



УТВЕРЖДАЮ

Директор ГАО РАН

д.ф.-м.н. Н.Р. Ихсанов

«13» июня 2018

План работы УНУ «26-дюймовый рефрактор Пулковской обсерватории»

С помощью уникальной научной установки «26-дюймовый рефрактор Пулковской обсерватории» (далее – УНУ) проводятся астрометрические наблюдения визуально-двойных звезд, спутников больших планет Солнечной системы, звезд с большими собственными движениями в интересах ГАО РАН (госзадание) и сторонних организаций. В результате рассмотрения заявок и анализа госзадания в рамках темы 0041-2014-0004 “Космография” (№ госрегистрации 01201452586) сформирован список объектов для проведения наблюдений с помощью оборудования УНУ. Список подготовлен в форме, удобной для управления УНУ с помощью соответствующего ПО и представлен в Приложении 1. Выбор текущего объекта для наблюдения производится ПО УНУ на основе системы приоритетов и текущих условий наблюдений.

Перечень объектов, которые планируется наблюдать с помощью уникальной научной установки «26-дюймовый рефрактор Пулковской обсерватории»

0	RR	Tau	pl	5	39	30.5300	26	22	26.360	10.000	10.000	0.000	297.00
14	1	15.00	0	187	121	180	lr01	s					
0	CQ	Tau	pl	5	35	58.4670	24	44	54.092	9.000	9.000	0.000	297.00
28	1	6.00	0	187	121	180	lr02	s					
0	BF	Ori	pl	5	37	13.2626	-6	35	00.580	10.000	10.000	0.000	297.00
14	1	15.00	0	187	121	180	lr03	s					
0	UX	Ori	pl	5	4	29.9908	-3	47	14.280	10.000	10.000	0.000	297.00
14	1	15.00	0	187	121	180	lr04	s					
0	VX	Cas	pl	0	31	30.6846	61	58	50.966	10.000	10.000	0.000	297.00
14	1	15.00	0	187	121	180	lr05	s					
0	WW	Vul	pl	19	25	58.7502	21	12	31.275	10.000	10.000	0.000	297.00
14	1	15.00	0	187	121	180	lr06	s					
5	17169			0	1	44.8514	63	10	4.514	9.000	11.200	4.200	297.00
17	4	12.56	0	187	121	180	7169	n					
=	clbr2	298		0	2	27.1218	52	35	4.353	8.647	9.592	139.793	95.49
5	1	30.00	0	187	121	180	1298	s					
3	o	36		0	4	54.9665	58	31	55.826	6.700	9.509	3.850	298.70
46	4	1.51	0	187	121	180	0036	s					
7	48a			0	5	40.2863	45	48	41.819	9.011	9.075	6.041	178.25
50	4	1.00	0	187	121	180	0048	s					
2	n	60		0	5	55.6538	18	4	33.273	9.343	9.629	3.445	131.50
5	2	45.00	0	187	121	180	0060	e					
2	owds	00073+2058		0	7	18.1500	20	57	56.151	9.250	11.532	3.130	165.20
5	2	45.00	0	187	121	180	0007	s					
0	wdsa	00082+6217		0	8	13.1909	62	17	26.651	9.700	10.500	12.400	208.00
5	2	45.00	0	187	121	180	0008	n					
0	nwds	00099+7329		0	9	55.0643	73	28	59.715	11.100	11.300	6.400	38.00
5	2	45.00	0	187	121	180	0009	s					
3	n	119		0	10	3.4256	46	23	25.608	7.860	9.210	5.050	82.34
31	4	4.40	0	187	121	180	0119	e					
2	246amu!			0	18	22.8853	44	1	22.622	8.100	10.500	35.200	64.00
17	2	5.48	0	187	121	180	0246	a					
3	owds	00192+5942		0	19	14.2245	59	42	17.891	8.209	9.477	2.238	182.10
27	4	6.06	0	187	121	180	0019	s					
0	n	273		0	20	18.4316	55	23	28.496	10.900	11.000	6.500	179.00
5	2	45.00	0	187	121	180	0273	e					
2	n	297		0	21	42.5753	65	48	18.047	10.400	10.700	2.800	196.00
5	2	45.00	0	187	121	180	0297	e					
3	o	307		0	22	53.3410	62	14	28.998	8.171	11.129	9.540	84.00
27	4	5.85	0	187	121	180	0307	s					
2	315a			0	23	25.7723	60	30	44.873	10.300	10.500	4.200	154.00
5	2	45.00	0	187	121	180	0315	n					
2	HIP	1867	pl	0	23	38.1416	42	3	21.853	8.110	8.110	0.000	297.00
45	1	2.45	0	187	121	180	g001	s					
3	o	350		0	26	12.1012	56	46	45.624	6.914	9.609	1.950	51.90
43	4	1.84	0	187	121	180	0350	s					
7	wdsa	00301+5613		0	30	6.0000	56	13	0.000	11.000	11.500	14.300	346.00
5	2	45.00	0	187	121	180	0030	w					
0	wdsa	00301+5613	pl	0	30	6.0000	56	13	0.000	11.000	11.500	14.300	346.00
6	1	45.00	0	187	121	180	q203	w					
2	HIP	2397	pl	0	30	30.8971	22	46	9.898	9.220	9.220	0.000	297.00
25	1	6.81	0	187	121	180	g002	s					
2	n	423a		0	31	17.6121	63	20	35.894	10.958	11.776	5.830	353.90
5	2	45.00	0	187	121	180	0423	e					

2	o	440a		0	32	26.8119	67	14	10.376	10.564	12.197	4.150	163.40
5	2	45.00	0	187	121	180	0440	s					
3	o	470		0	34	33.6983	62	54	12.209	7.858	10.604	4.490	5.30
31	4	4.39	0	187	121	180	0470	s					
2	HIP	2760	pl	0	35	13.7228	51	50	18.632	7.370	7.370	0.000	297.00
58	1	1.24	0	187	121	180	g003	s					
2	HIP	2777	pl	0	35	27.0677	24	31	3.780	9.030	9.030	0.000	297.00
28	1	5.72	0	187	121	180	g004	s					
4		497a		0	36	2.3304	29	59	41.268	8.501	9.347	6.190	22.68
20	4	10.00	0	187	121	180	0497	s					
2	0039+3701		pl	0	39	55.9010	37	1	58.984	15.405	15.405	0.000	297.00
06	1	45.00	0	187	121	180	q301	s					
2	HIP	3362	pl	0	42	48.0619	35	32	54.970	10.370	10.370	0.000	297.00
11	1	19.64	0	187	121	180	g005	s					
0	o	630a		0	45	50.7911	54	58	40.848	7.915	9.843	3.800	90.30
31	4	4.62	0	187	121	180	0630	s					
0	0045+2646		pl	0	45	52.5343	26	46	52.370	15.600	15.600	0.000	297.00
06	1	45.00	0	187	121	180	q001	s					
0	0046+3350		pl	0	46	13.1285	33	50	10.734	15.800	15.800	0.000	297.00
06	1	45.00	0	187	121	180	q003	s					
4		637a		0	46	36.0853	61	31	19.861	9.000	9.200	6.800	273.00
50	4	1.00	0	187	121	180	0637	a					
0	0046+1800		pl	0	46	57.2789	18	0	5.692	15.200	15.200	0.000	297.00
06	1	45.00	0	187	121	180	q002	s					
0	0047+4744		pl	0	47	55.1064	47	44	33.659	15.200	15.200	0.000	297.00
06	1	45.00	0	187	121	180	q004	s					
2	0048+2701		pl	0	48	45.5350	27	1	9.055	12.108	12.108	0.000	297.00
06	1	45.00	0	187	121	180	q302	s					
2	0048+3551		pl	0	48	50.7065	35	51	22.406	15.234	15.234	0.000	297.00
06	1	45.00	0	187	121	180	q303	s					
4	o	683a		0	49	53.1088	27	42	37.120	6.396	6.400	4.331	295.86
50	4	1.00	0	187	121	180	0683	s					
0	0051+3751		pl	0	51	54.8256	37	50	48.816	14.600	14.600	0.000	297.00
06	1	45.00	0	187	121	180	q006	s					
2	0052+3145		pl	0	52	45.9089	31	45	53.950	14.509	14.509	0.000	297.00
06	1	45.00	0	187	121	180	q304	s					
2	0054+2731		pl	0	54	48.0888	27	31	3.598	14.903	14.903	0.000	297.00
06	1	45.00	0	187	121	180	q305	s					
0	0058+6248		pl	0	58	32.3628	62	48	38.531	14.200	14.200	0.000	297.00
06	1	45.00	0	187	121	180	q007	s					
2	HIP	4598	pl	0	58	51.8918	21	56	40.598	10.040	10.040	0.000	297.00
14	1	14.49	0	187	121	180	g006	s					
2	0059+2251		pl	0	59	38.8735	22	51	35.870	14.466	14.466	0.000	297.00
06	1	45.00	0	187	121	180	q306	s					
2	0059+3108		pl	0	59	28.8814	31	8	18.881	14.058	14.058	0.000	297.00
06	1	45.00	0	187	121	180	q307	s					
0	0100+3224		pl	1	0	19.5482	32	24	38.966	15.700	15.700	0.000	297.00
06	1	45.00	0	187	121	180	q008	s					
2		845a		1	1	46.4578	46	35	14.912	9.400	9.900	2.600	8.00
5	2	45.00	0	187	121	180	0845	a					
2	owdsa01032+2006			1	3	13.7382	20	5	51.849	11.681	12.973	2.750	45.20
5	2	45.00	0	187	121	180	0103	s					
2		861a		1	3	13.7744	60	31	48.659	9.400	9.400	7.600	299.00
5	2	45.00	0	187	121	180	0861	b					
2	HIP	4967	pl	1	3	40.0299	40	51	30.684	10.890	10.890	0.000	297.00
7	1	31.71	0	187	121	180	g007	s					
2	0104+3938		pl	1	4	5.7574	39	38	15.814	13.617	13.617	0.000	297.00
06	1	45.00	0	187	121	180	q308	s					
4		895a		1	5	29.8291	15	23	23.057	9.221	9.961	6.230	202.00
42	4	2.00	0	187	121	180	0895	s					
0		885a	pl	1	5	30.0000	62	53	0.000	10.000	10.500	3.500	297.00
6	1	45.00	0	187	121	180	q200	w					

2 0106+4123 pl	1 6 2.8378 41 23 45.132 14.513 14.513 0.000 297.00
06 1 45.00 0	187 121 180 q309 s
2 HIP 5313 pl	1 7 58.8031 39 15 9.112 7.780 7.780 0.000 297.00
52 1 1.81 0	187 121 180 g008 s
0 1090 opt	1 20 43.8588 46 20 27.397 9.013 9.715 19.650 335.10
12 2 12.71 0	187 121 180 1090 o
2 HIP 6339 pl	1 21 27.8751 31 20 29.944 8.460 8.460 0.000 297.00
39 1 3.38 0	187 121 180 g009 s
2 0122+1811 pl	1 22 24.5105 18 11 57.462 15.800 15.800 0.000 297.00
06 1 45.00 0	187 121 180 q310 s
0 0123+3510pl	1 23 56.5536 35 10 15.330 14.500 14.500 0.000 297.00
06 1 45.00 0	187 121 180 q009 s
0 n 1134	1 25 34.0131 31 33 0.889 8.186 11.802 4.540 243.00
27 4 5.94 0	187 121 180 1134 e
2 HIP 6713 pl	1 26 19.7844 47 42 49.319 9.260 9.260 0.000 297.00
24 1 7.06 0	187 121 180 g010 s
2 0132+2059 pl	1 32 44.3165 20 59 15.821 12.006 12.006 0.000 297.00
06 1 45.00 0	187 121 180 q311 s
2 0132+4604 pl	1 32 46.6740 46 4 58.883 15.733 15.733 0.000 297.00
06 1 45.00 0	187 121 180 q401 s
3 1198 opt?	1 35 9.4661 83 21 13.111 8.500 9.400 14.700 91.00
23 4 7.93 0	187 121 180 1198 a
2 1259a	1 36 44.0644 40 5 18.795 10.500 10.500 6.200 55.00
5 2 45.00 0	187 121 180 1259 w
0 0140+5528pl	1 40 5.0117 55 28 51.787 13.100 13.100 0.000 297.00
06 1 45.00 0	187 121 180 q010 s
2 0140+2102 pl	1 40 51.5863 21 2 7.516 14.093 14.093 0.000 297.00
06 1 45.00 0	187 121 180 q312 s
2 0140+3147 pl	1 40 16.5691 31 47 30.656 13.810 13.810 0.000 297.00
06 1 45.00 0	187 121 180 q313 s
2 1342	1 43 4.2936 64 2 13.350 10.000 11.200 9.500 352.00
5 2 45.00 0	187 121 180 1342 n
5 o 1438a	1 49 15.5615 47 53 49.026 6.490 7.312 1.984 203.00
50 4 1.00 0	187 121 180 1438 s
2 1474a	1 51 53.5779 58 37 34.919 9.300 9.500 4.900 24.00
5 2 45.00 0	187 121 180 1474 b
0 0152+5017pl	1 52 52.5322 50 17 57.552 15.300 15.300 0.000 297.00
06 1 45.00 0	187 121 180 q011 s
4 1507a	1 53 31.7676 19 17 42.536 4.584 4.638 7.606 0.51
57 4 0.22 0	187 121 180 1507 s
0 0154+6541pl	1 54 20.0158 65 41 50.168 14.300 14.300 0.000 297.00
06 1 45.00 0	187 121 180 q013 s
2 0154+3045 pl	1 54 26.6213 30 45 48.204 14.999 14.999 0.000 297.00
06 1 45.00 0	187 121 180 q314 s
2 HIP 8920 pl	1 54 50.3197 21 18 22.660 8.980 8.980 0.000 297.00
29 1 5.46 0	187 121 180 g011 s
2 0158+4602 pl	1 58 34.7556 46 2 7.620 13.912 13.912 0.000 297.00
06 1 45.00 0	187 121 180 q315 s
2 HIP 9260 pl	1 59 2.6937 21 54 51.192 9.020 9.020 0.000 297.00
28 1 5.66 0	187 121 180 g012 s
7 wdsa02011+7358	2 1 6.6300 73 57 59.263 9.800 10.800 17.300 13.00
5 2 45.00 0	187 121 180 0201 a
0 0204+4855pl	2 4 1.3073 48 55 37.247 14.300 14.300 0.000 297.00
06 1 45.00 0	187 121 180 q014 s
2 wds 02070+4512o	2 7 0.0000 45 12 0.051 11.000 12.100 8.700 318.00
5 2 45.00 0	187 121 180 0207 w
2 0208+2536 pl	2 8 44.4250 25 36 25.553 13.224 13.224 0.000 297.00
06 1 45.00 0	187 121 180 q316 s
2 0208+4926 pl	2 8 53.6215 49 26 56.296 12.278 12.278 0.000 297.00
06 1 45.00 0	187 121 180 q317 s
0 wds 02105+6000	2 10 25.4604 59 58 47.850 6.678 9.500 7.400 211.00
46 4 1.48 0	187 121 180 0210 o

2	wdsa02108+5624	2	10	43.9755	56	24	21.974	9.300	9.900	17.200	256.00		
5	2	45.00	0	187	121	180	a210 n						
0	o 1696	\AD\A5	NE0\A5\E8	2	12	15.3299	23	57	30.943	8.070	9.675	1.820	
235.50	29	4	5.33	0	187	121	180	1696 s					
4	o 1697a			2	12	22.3239	30	18	11.574	5.322	6.826	3.920	69.92
55	4	0.42	0	187	121	180	1697 s						
2	HIP 10454	pl		2	14	43.1123	17	37	20.144	8.940	8.940	0.000	297.00
30	1	5.26	0	187	121	180	g013 s						
3	o 1757			2	17	56.0978	38	4	56.326	9.179	11.034	3.260	233.60
15	4	14.81	0	187	121	180	1757 s						
2	0219+2352	pl		2	19	2.3354	23	52	54.905	14.029	14.029	0.000	297.00
06	1	45.00	0	187	121	180	q318 s						
3	o 1775			2	21	39.6530	76	22	48.702	9.583	10.103	2.019	275.00
5	2	45.00	0	187	121	180	1775 s						
2	HIP 11114	pl		2	23	0.3483	22	16	29.841	8.880	8.880	0.000	297.00
31	1	4.98	0	187	121	180	g014 s						
0	0224+4113	pl		2	24	14.6594	41	13	46.556	12.400	12.400	0.000	297.00
06	1	45.00	0	187	121	180	q015 s						
2	HIP 11355	pl		2	26	14.1025	18	54	18.957	8.190	8.190	0.000	297.00
44	1	2.64	0	187	121	180	g015 s						
2	0226+3101	pl		2	26	14.8690	31	1	46.765	13.165	13.165	0.000	297.00
06	1	45.00	0	187	121	180	q319 s						
2	HIP 11409	pl		2	27	2.2353	33	55	43.018	8.380	8.380	0.000	297.00
40	1	3.14	0	187	121	180	g016 s						
0	o 1860			2	29	3.9882	67	24	8.582	4.619	7.093	2.831	233.30
57	4	0.22	0	187	121	180	1860 s						
2	1869a			2	29	8.3545	62	6	24.820	9.500	11.000	3.300	143.00
5	2	45.00	0	187	121	180	1869 n						
0	0229+3106	pl		2	29	35.9052	31	6	35.006	14.400	14.400	0.000	297.00
06	1	45.00	0	187	121	180	q016 s						
0	0231+5722	pl		2	31	27.6571	57	22	43.252	11.200	11.200	0.000	297.00
06	2	45.00	0	187	121	180	p572 s						
0	1477	pol		2	31	47.0753	89	15	50.897	2.067	9.000	17.800	216.00
59	4	0.02	0	187	121	180	1477 o						
4	1918a			2	32	14.1385	54	14	59.837	9.100	9.300	7.000	310.00
15	4	13.77	0	187	121	180	1918 n						
0	0234+1745	pl		2	34	12.4567	17	45	50.490	14.100	14.100	0.000	297.00
06	2	45.00	0	187	121	180	p174 s						
2	HIP 12636	pl		2	42	20.9635	63	10	18.605	9.640	9.640	0.000	297.00
19	1	10.03	0	187	121	180	g017 s						
4	n 2091a			2	44	36.7276	29	27	38.205	7.836	8.179	3.158	313.40
50	4	1.00	0	187	121	180	2091 e						
0	0246+1625	pl		2	46	34.7278	16	25	10.304	15.800	15.800	0.000	297.00
06	2	45.00	0	187	121	180	p162 s						
4	n 2112a			2	47	0.2371	50	7	27.485	8.908	9.054	2.713	149.40
50	4	1.00	0	187	121	180	2112 e						
3	n 2122a			2	47	27.2489	19	22	21.109	7.484	8.276	3.640	309.20
50	4	1.00	0	187	121	180	2122 e						
0	2130a	opt		2	48	2.9948	37	33	22.200	9.400	9.600	10.300	283.00
8	2	30.00	0	187	121	180	2130 n						
2	HIP 13081	pl		2	48	8.9699	27	4	8.193	7.560	7.560	0.000	297.00
55	1	1.48	0	187	121	180	g018 s						
2	0248+4143	pl		2	48	43.3639	41	43	32.290	14.089	14.089	0.000	297.00
06	1	45.00	0	187	121	180	q320 s						
2	n 2141a			2	48	51.0909	38	23	12.761	11.500	11.800	2.900	259.00
5	2	45.00	0	187	121	180	2141 e						
0	0251+2442	pl		2	51	14.6868	24	42	47.099	15.300	15.300	0.000	297.00
06	1	45.00	0	187	121	180	q017 s						
0	0251+5922	pl		2	51	34.1039	59	22	33.771	14.600	14.600	0.000	297.00
06	1	45.00	0	187	121	180	q019 s						
3	nwds 02517+3854			2	51	43.1601	38	53	56.791	8.972	9.674	25.700	130.80
17	4	12.24	0	187	121	180	0251 e						

3 o 2185		2	52	52.0231	52	59	50.630	7.255	7.293	1.560	312.20
50 4 1.00 0	187		121	180 2185	s						
2 HIP 13477 pl		2	53	34.9797	49	48	1.678	8.890	8.890	0.000	297.00
31 1 5.02 0	187		121	180 g019	s						
5 2218a		2	55	38.7520	26	52	23.142	7.728	10.018	5.540	220.30
33 4 3.89 0	187		121	180 2218	s						
3 o 2226		2	58	6.9313	69	11	36.635	7.969	10.139	4.000	84.30
30 4 4.86 0	187		121	180 2226	s						
0 0259+3330pl		2	59	12.2086	33	30	11.671	14.800	14.800	0.000	297.00
06 1 45.00 0	187		121	180 q020	s						
2 HIP 14048 pl		3	0	53.5072	15	1	52.862	7.310	7.310	0.000	297.00
59 1 1.17 0	187		121	180 g020	s						
2 HIP 14133 pl		3	2	15.8994	59	37	37.163	9.070	9.070	0.000	297.00
27 1 5.93 0	187		121	180 g021	s						
0 2304pl gonch		3	3	12.1810	45	52	38.480	10.290	10.900	3.000	145.00
15 1 20.00 0	187		121	180 m304	s						
3 o 2291		3	3	46.7478	70	39	25.917	8.782	11.025	5.480	319.70
19 4 10.28 0	187		121	180 2291	s						
2 HIP 14292 pl		3	4	15.1991	21	28	22.466	7.290	7.290	0.000	297.00
60 1 1.15 0	187		121	180 g022	s						
0 0306+5103pl		3	6	18.9614	51	3	22.313	11.800	11.800	0.000	297.00
06 1 45.00 0	187		121	180 q021	s						
2 o 2343a		3	6	51.6354	40	21	35.218	9.869	12.834	2.990	219.00
5 2 45.00 0	187		121	180 2343	s						
2 0307+3217 pl		3	7	0.9550	32	17	36.128	15.141	15.141	0.000	297.00
06 1 45.00 0	187		121	180 q321	s						
6 2359a		3	8	40.8000	60	28	4.000	12.800	13.200	3.000	143.00
5 2 45.00 0	187		121	180 2359	w						
0 2359apl		3	8	40.8000	60	28	4.000	12.800	13.200	3.000	143.00
6 1 45.00 0	187		121	180 q202	w						
4 n 2390a		3	12	9.6349	37	13	3.430	8.037	8.309	2.717	126.75
50 4 1.00 0	187		121	180 2390	e						
2 2427a		3	16	13.3964	58	10	7.811	10.987	11.266	4.880	10.60
5 2 45.00 0	187		121	180 2427	s						
0 0316+3132pl		3	16	22.7654	31	32	44.340	15.500	15.500	0.000	297.00
06 1 45.00 0	187		121	180 q022	s						
0 0317+2337pl		3	17	52.9570	23	37	21.313	13.000	13.000	0.000	297.00
06 1 45.00 0	187		121	180 q023	s						
2 HIP 15394 pl		3	18	27.1377	15	10	41.089	7.420	7.420	0.000	297.00
58 1 1.30 0	187		121	180 g023	s						
2 HIP 15406 pl		3	18	38.1793	32	39	57.723	11.330	11.330	0.000	297.00
5 1 45.00 0	187		121	180 g024	s						
2 0319+3442 pl		3	19	42.7589	34	42	23.814	14.999	14.999	0.000	297.00
06 1 45.00 0	187		121	180 q402	s						
3 owds 03212+5910		3	21	11.5103	59	10	3.573	8.451	10.412	5.610	70.00
23 4 7.58 0	187		121	180 0321	s						
2 owdsa03242+2347		3	24	6.3414	23	47	7.226	10.803	12.072	2.250	347.10
5 2 45.00 0	187		121	180 0324	s						
3 n 2514		3	24	29.7620	33	32	7.674	5.816	9.657	4.490	152.50
52 4 0.67 0	187		121	180 2514	e						
8 0324+4359 pl		3	24	39.5215	43	59	6.317	15.107	15.107	0.000	297.00
06 1 45.00 0	187		121	180 q322	s						
< 0325+3819 pl		3	25	43.5727	38	19	56.863	16.172	16.172	0.000	297.00
06 1 45.00 0	187		121	180 q323	s						
9 0325+4451 pl		3	25	10.5406	44	51	15.361	14.891	14.891	0.000	297.00
06 1 45.00 0	187		121	180 q324	s						
2 HIP 16174 pl		3	28	22.5417	22	3	32.713	8.590	8.590	0.000	297.00
36 1 3.81 0	187		121	180 g025	s						
3 o 2563a		3	30	10.9316	59	21	57.848	6.432	7.890	2.645	70.30
50 4 1.00 0	187		121	180 2563	s						
3 n 2584a		3	31	13.4388	19	46	59.158	8.728	9.012	2.393	173.30
50 4 1.00 0	187		121	180 2584	e						

3	owds	03324+7637	3	32	24.8172	76	37	2.767	8.474	11.163	4.950	108.80	
23	4	7.74	0	187	121	180	0332	s					
0	n	2600	3	33	33.1845	45	45	12.489	9.900	10.100	7.400	39.00	
5	2	45.00	0	187	121	180	2600	e					
5	o	2668a	3	40	7.2405	34	6	59.257	7.568	7.703	1.990	69.60	
50	4	1.00	0	187	121	180	2668	s					
0	0340+2114	pl	3	40	27.5335	21	14	47.962	15.900	15.900	0.000	297.00	
06	1	45.00	0	187	121	180	q024	s					
0	0340+5124	pl	3	40	26.1739	51	24	59.278	15.500	15.500	0.000	297.00	
06	1	45.00	0	187	121	180	q025	s					
2	n	2664a	3	41	6.0864	60	39	23.671	9.500	9.600	6.300	311.00	
5	2	45.00	0	187	121	180	2664	e					
0	0341+2520	pl	3	41	34.5254	25	20	47.897	14.000	14.000	0.000	297.00	
06	1	45.00	0	187	121	180	q026	s					
0	0343+6339	pl	3	43	53.3698	63	39	53.881	12.700	12.700	0.000	297.00	
06	1	45.00	0	187	121	180	q027	s					
8	0344+3716	pl	3	44	26.0971	37	16	37.049	15.223	15.223	0.000	297.00	
06	1	45.00	0	187	121	180	q325	s					
2	HIP	17466	pl	3	44	34.3621	17	44	50.611	9.230	9.230	0.000	297.00
25	1	6.87	0	187	121	180	g026	s					
7		2697	3	45	27.0205	75	21	5.053	8.500	9.200	19.900	63.00	
50	4	1.00	0	187	121	180	2697	a					
2	HIP	17557	pl	3	45	36.0055	13	14	50.669	10.100	10.100	0.000	297.00
13	1	15.31	0	187	121	180	g027	s					
2	HIP	17586	pl	3	46	1.0051	18	34	0.266	9.160	9.160	0.000	297.00
26	1	6.44	0	187	121	180	g028	s					
5		2757a	3	47	1.9131	41	25	51.141	8.245	8.945	7.307	54.17	
50	4	1.00	0	187	121	180	2757	s					
8	0347+4358	pl	3	47	22.4340	43	58	57.212	14.504	14.504	0.000	297.00	
06	1	45.00	0	187	121	180	q403	s					
4	HIP	17714	pl	3	47	38.2859	14	5	12.826	8.840	8.840	0.000	297.00
32	1	4.80	0	187	121	180	g029	s					
3	owds	03475+3910	3	47	40.8140	39	9	37.391	10.445	12.742	2.590	116.00	
5	2	45.00	0	187	121	180	a347	s					
3	HIP	17726	pl	3	47	44.3968	14	21	36.545	8.740	8.740	0.000	297.00
33	1	4.38	0	187	121	180	g030	s					
0	0350+4325	pl	3	50	13.8922	43	25	40.447	13.200	13.200	0.000	297.00	
06	2	45.00	0	187	121	180	p432	s					
2	HIP	18071	pl	3	51	44.3403	44	57	11.137	11.510	11.510	0.000	297.00
5	1	45.00	0	187	121	180	g031	s					
=		clbr2	388	3	51	51.1339	63	37	12.256	9.402	9.675	149.247	55.63
5	1	30.00	0	187	121	180	l388	s					
2		2878a	3	57	36.3765	57	12	0.00	10.000	11.100	5.200	244.00	
5	2	45.00	0	187	121	180	2878	w					
4	HIP	18559	pl	3	58	20.8869	24	4	52.436	7.210	7.210	0.000	297.00
61	1	1.07	0	187	121	180	g032	s					
2	HIP	18658	pl	3	59	40.4146	10	19	49.479	6.350	6.350	0.000	297.00
71	1	0.48	0	187	121	180	g033	s					
0	n	2908	3	59	50.7111	50	53	38.765	10.332	12.121	3.450	353.60	
5	2	45.00	0	187	121	180	2908	e					
0	0400+5417	pl	4	0	12.8210	54	17	29.512	15.900	15.900	0.000	297.00	
06	1	45.00	0	187	121	180	q028	s					
0	n	2956	4	3	48.2186	37	58	19.806	8.476	12.139	4.490	269.00	
23	4	7.75	0	187	121	180	2956	e					
3	HIP	18994	pl	4	4	9.9453	42	31	39.239	8.190	8.190	0.000	297.00
44	1	2.64	0	187	121	180	g034	s					
2	HIP	19012	pl	4	4	23.4823	38	47	48.075	7.510	7.510	0.000	297.00
56	1	1.41	0	187	121	180	g035	s					
2	HIP	19134	pl	4	6	3.6645	47	17	25.132	8.420	8.420	0.000	297.00
39	1	3.26	0	187	121	180	g036	s					
3	HIP	19136	pl	4	6	4.5707	26	12	42.693	7.550	7.550	0.000	297.00
56	1	1.46	0	187	121	180	g037	s					

3 HIP 19219 pl	4	7	9.9281	27	30	33.902	8.550	8.550	0.000	297.00
37 1 3.67 0	187	121	180 g038	s						
0 o 2995	4	7	34.2247	38	4	30.316	7.381	9.760	1.960	3.90
38 4 2.83 0	187	121	180 2995	s						
0 0408+5010pl	4	8	34.6747	50	10	28.762	15.600	15.600	0.000	297.00
06 1 45.00 0	187	121	180 q029	s						
2 HIP 19359 pl	4	8	49.6030	10	27	49.373	8.760	8.760	0.000	297.00
33 1 4.46 0	187	121	180 g039	s						
0 o 3015	4	9	10.2882	40	9	41.584	7.739	10.236	2.970	160.10
33 4 3.93 0	187	121	180 3015	s						
9 0411+4931 pl	4	11	13.1150	49	31	52.446	13.373	13.373	0.000	297.00
06 1 45.00 0	187	121	180 q326	s						
0 0412+6234pl	4	12	3.1778	62	34	21.626	11.400	11.400	0.000	297.00
06 1 45.00 0	187	121	180 q030	s						
8 0412+4050 pl	4	12	58.0262	40	50	7.300	9.271	9.271	0.000	297.00
06 1 45.00 0	187	121	180 q404	s						
4 o 3080a	4	15	44.9452	45	23	39.480	8.864	8.965	5.275	219.12
50 4 1.00 0	187	121	180 3080	s						
< 0416+2723 pl	4	16	16.2926	27	23	53.326	15.562	15.562	0.000	297.00
06 1 45.00 0	187	121	180 q327	s						
4 HIP 19914 pl	4	16	19.0032	29	15	23.850	10.110	10.110	0.000	297.00
13 1 15.46 0	187	121	180 g040	s						
4 HIP 19930 pl	4	16	32.6719	36	30	8.556	8.250	8.250	0.000	297.00
43 1 2.79 0	187	121	180 g041	s						
; 0417+4151 pl	4	17	40.4993	41	51	9.828	14.040	14.040	0.000	297.00
06 1 45.00 0	187	121	180 q328	s						
3 3073	4	19	48.8311	79	28	57.802	9.000	10.500	8.400	352.00
17 4 12.56 0	187	121	180 3073	n						
3 o 3110a	4	19	59.0489	67	52	49.178	8.485	11.136	3.050	251.00
23 4 7.82 0	187	121	180 3110	s						
0 0422+2737pl	4	22	25.0140	27	37	11.611	15.900	15.900	0.000	297.00
06 1 45.00 0	187	121	180 q031	s						
2 HIP 20441 pl	4	22	44.6746	16	47	27.704	7.860	7.860	0.000	297.00
50 1 1.95 0	187	121	180 g042	s						
2 HIP 20541 pl	4	24	5.3992	53	29	43.439	7.050	7.050	0.000	297.00
63 1 0.92 0	187	121	180 g043	s						
5 n 3188a	4	24	37.4874	33	57	37.600	5.876	9.721	4.300	21.50
52 4 0.71 0	187	121	180 3188	e						
; 0429+2111 pl	4	29	13.2257	21	11	14.896	13.688	13.688	0.000	297.00
06 1 45.00 0	187	121	180 q329	s						
2 04309+5902 pi!	4	31	10.5519	58	58	56.856	11.054	12.472	8.350	69.40
5 2 45.00 0	187	121	180 0430	s						
0 0433+4615pl	4	33	54.1205	46	15	23.814	14.500	14.500	0.000	297.00
06 1 45.00 0	187	121	180 q032	s						
0 0433+6846pl	4	33	17.9050	68	46	55.742	13.500	13.500	0.000	297.00
06 1 45.00 0	187	121	180 q034	s						
2 HIP 21276 pl	4	33	54.3734	64	37	59.139	7.750	7.750	0.000	297.00
52 1 1.76 0	187	121	180 g044	s						
2 HIP 21543 pl	4	37	31.9293	15	8	47.392	7.530	7.530	0.000	297.00
56 1 1.44 0	187	121	180 g045	s						
6 3353a	4	38	29.5178	26	56	23.993	7.442	7.322	4.000	199.00
50 4 1.00 0	187	121	180 3353	s						
0 0441+2254pl	4	41	21.7750	22	54	26.449	11.800	11.800	0.000	297.00
06 1 45.00 0	187	121	180 q035	s						
0 0442+2929pl	4	42	52.9267	29	29	4.045	14.900	14.900	0.000	297.00
06 1 45.00 0	187	121	180 q036	s						
2 HIP 22003 pl	4	43	48.2728	32	51	56.041	6.490	6.490	0.000	297.00
70 1 0.55 0	187	121	180 g046	s						
2 HIP 22021 pl	4	44	3.7173	12	59	28.420	7.610	7.610	0.000	297.00
54 1 1.55 0	187	121	180 g047	s						
0 0448+2206pl	4	48	32.2102	22	6	24.970	13.000	13.000	0.000	297.00
06 1 45.00 0	187	121	180 q037	s						

2 HIP 22350 pl	4	48	42.0731	21	6	3.959	9.060	9.060	0.000	297.00
28 1 5.88 0	187	121	180 g048	s						
2 HIP 22460 pl	4	50	0.0791	28	56	31.400	9.130	9.130	0.000	297.00
26 1 6.27 0	187	121	180 g049	s						
2 HIP 22496 pl	4	50	23.8680	17	12	9.856	7.100	7.100	0.000	297.00
63 1 0.97 0	187	121	180 g050	s						
3 owds 04513+7714	4	51	20.3199	77	13	30.800	9.338	11.313	10.120	217.30
5 2 45.00 0	187	121	180 0451	s						
2 o 3491a	4	52	41.9619	20	0	2.363	9.604	11.544	4.060	193.40
5 2 45.00 0	187	121	180 3491	s						
0 0453+3047pl	4	53	8.2562	30	47	28.824	12.800	12.800	0.000	297.00
06 1 45.00 0	187	121	180 q038	s						
0 0453+6911pl	4	53	12.7495	69	11	42.464	15.300	15.300	0.000	297.00
06 1 45.00 0	187	121	180 q039	s						
; 0454+3830 pl	4	54	24.0984	38	30	43.384	15.913	15.913	0.000	297.00
06 1 45.00 0	187	121	180 q330	s						
0 0456+2553pl	4	56	9.2431	25	53	18.636	12.800	12.800	0.000	297.00
06 1 45.00 0	187	121	180 q040	s						
3 HIP 23141 pl	4	58	45.6206	28	47	25.615	9.370	9.370	0.000	297.00
23 1 7.82 0	187	121	180 g051	s						
5 n 3572a	4	59	15.3832	37	53	28.227	5.008	8.178	4.990	2.10
56 4 0.32 0	187	121	180 3572	e						
2 HIP 23181 pl	4	59	17.6184	52	29	34.635	7.910	7.910	0.000	297.00
49 1 2.04 0	187	121	180 g052	s						
7 wds 04596+8008	4	59	34.3871	80	8	24.999	9.000	9.100	8.000	206.00
50 4 1.00 0	187	121	180 0459	a						
0 n 3589a	5	0	18.1788	39	23	41.214	6.088	9.501	3.950	278.10
51 4 0.86 0	187	121	180 3589	e						
3 HIP 23343 pl	5	1	16.4527	28	14	36.441	10.430	10.430	0.000	297.00
10 1 20.75 0	187	121	180 g053	s						
5 3593a	5	1	19.9251	50	15	25.298	8.700	8.700	4.100	154.00
50 4 1.00 0	187	121	180 3593	a						
2 HIP 23611 pl	5	4	36.9190	32	19	13.572	6.590	6.590	0.000	297.00
69 1 0.60 0	187	121	180 g054	s						
0 0510+3117pl	5	10	31.4117	31	17	35.347	14.300	14.300	0.000	297.00
06 1 45.00 0	187	121	180 q041	s						
4 o 3744a	5	10	59.1910	32	2	19.527	8.162	9.010	4.721	63.36
50 4 1.00 0	187	121	180 3744	s						
0 0514+4431pl	5	14	58.2038	44	31	44.357	13.300	13.300	0.000	297.00
06 1 45.00 0	187	121	180 q042	s						
2 HIP 24480 pl	5	15	11.5664	20	3	22.243	7.720	7.720	0.000	297.00
53 1 1.71 0	187	121	180 g055	s						
2 0518+1512 pl	5	18	34.3306	15	12	21.060	15.003	15.003	0.000	297.00
06 1 45.00 0	187	121	180 q331	s						
3 o 3840	5	20	52.8555	78	22	29.193	8.214	10.085	1.740	46.20
27 4 6.09 0	187	121	180 3840	s						
4 HIP 25029 pl	5	21	33.2327	86	51	58.964	8.520	8.520	0.000	297.00
38 1 3.57 0	187	121	180 g056	s						
0 0522+3814pl	5	22	5.3100	38	14	14.640	14.600	14.600	0.000	297.00
06 2 45.00 0	187	121	180 p381	s						
3 HIP 25222 pl	5	23	39.6511	64	7	30.268	7.290	7.290	0.000	297.00
60 1 1.15 0	187	121	180 g057	s						
2 HIP 25540 pl	5	27	38.3339	11	25	38.942	10.640	10.640	0.000	297.00
8 1 25.18 0	187	121	180 g058	s						
2 0527+4436Wpl	5	27	46.9848	44	36	11.585	14.429	14.429	0.000	297.00
06 1 45.00 0	187	121	180 q332	s						
3 4052a	5	28	12.0000	38	0	0.000	10.200	10.200	4.800	145.00
5 2 45.00 0	187	121	180 4052	w						
2 0528+1943Spl	5	28	55.6440	19	43	45.703	11.781	11.781	0.000	297.00
06 1 45.00 0	187	121	180 q333	s						
2 HIP 25704 pl	5	29	20.1027	43	24	32.943	9.900	9.900	0.000	297.00
15 1 12.74 0	187	121	180 g059	s						

2 0529+3754 pl	5 29 22.6154	37 54 48.578	15.287 15.287	0.000	297.00
06 1 45.00 0	187 121 180 q334 s				
0 0529+5239pl	5 29 50.2534	52 39 53.618	15.500 15.500	0.000	297.00
06 1 45.00 0	187 121 180 q043 s				
5 n 4099a	5 31 28.7637	54 39 17.241	7.833 9.823	7.834	226.02
32 4 4.29 0	187 121 180 4099 e				
2 0532+2608 pl	5 32 59.8937	26 8 26.304	14.364 14.364	0.000	297.00
06 1 45.00 0	187 121 180 q335 s				
5 n 4139a	5 33 7.0208	20 2 8.783	9.155 10.885	3.870	161.30
15 4 14.49 0	187 121 180 4139 e				
3 o 4147a	5 34 34.2669	51 55 13.640	8.936 10.991	4.530	105.10
17 4 11.84 0	187 121 180 4147 s				
2 HIP 26228 pl	5 35 18.0055	33 14 27.899	11.000 11.000	0.000	297.00
6 1 35.09 0	187 121 180 g060 s				
5 n 4200a	5 36 26.2670	21 59 35.997	7.530 7.968	3.996	271.88
50 4 1.00 0	187 121 180 4200 e				
3 o 4204a	5 37 7.1918	41 49 42.008	7.492 8.790	2.538	358.50
50 4 1.00 0	187 121 180 4204 s				
2 HIP 26560 pl	5 38 52.5377	35 4 41.205	8.100 8.100	0.000	297.00
46 1 2.43 0	187 121 180 g061 s				
2 HIP 26580 pl	5 39 1.7113	45 26 53.270	8.070 8.070	0.000	297.00
46 1 2.36 0	187 121 180 g062 s				
0 0539+4038pl	5 39 24.8071	40 38 42.839	15.500 15.500	0.000	297.00
06 2 45.00 0	187 121 180 p403 s				
3 HIP 26691 pl	5 40 18.2403	24 32 15.529	7.120 7.120	0.000	297.00
62 1 0.98 0	187 121 180 g063 s				
5 o 4289a	5 43 3.1859	25 21 47.824	8.509 9.793	2.670	97.90
23 4 7.99 0	187 121 180 4289 s				
3 n 4288a	5 43 16.6970	41 7 14.517	7.473 10.320	18.970	214.20
37 4 3.08 0	187 121 180 4288 e				
0 0547+6944pl	5 47 52.2638	69 44 27.287	15.600 15.600	0.000	297.00
06 1 45.00 0	187 121 180 q044 s				
0 0550+1719pl	5 50 24.1351	17 19 18.790	14.300 14.300	0.000	297.00
06 1 45.00 0	187 121 180 q045 s				
2 HIP 27605 pl	5 50 39.7579	27 30 18.285	7.130 7.130	0.000	297.00
62 1 0.99 0	187 121 180 g064 s				
3 o 4456a	5 52 30.5930	40 8 55.550	8.944 9.720	2.550	105.20
17 4 11.93 0	187 121 180 4456 s				
0 0555+5105pl	5 55 16.9171	51 5 5.543	13.900 13.900	0.000	297.00
06 1 45.00 0	187 121 180 q046 s				
0 0600+6809pl	6 0 49.4916	68 9 22.802	12.300 12.300	45.000	270.00
06 2 45.00 0	187 121 180 pa80 s				
0 0601+5935pl	6 1 11.0633	59 35 49.654	10.700 10.700	0.000	297.00
06 2 45.00 0	187 121 180 p593 s				
0 0602+5013pl	6 2 2.2157	50 13 13.667	14.900 14.900	0.000	297.00
06 1 45.00 0	187 121 180 q047 s				
3 o 4583	6 2 21.4471	64 58 7.902	8.998 10.941	1.800	19.20
17 4 12.54 0	187 121 180 4583 s				
0 0603+1921pl	6 3 14.5111	19 21 34.024	12.700 12.700	0.000	297.00
06 1 45.00 0	187 121 180 q048 s				
2 HIP 28677 pl	6 3 17.8732	42 54 42.794	6.080 6.080	0.000	297.00
74 1 0.38 0	187 121 180 g065 s				
5 4629a	6 3 26.5666	27 38 32.756	8.200 8.700	11.600	261.00
50 4 1.00 0	187 121 180 4629 a				
3 HIP 29079 pl	6 8 4.0440	39 12 34.750	8.540 8.540	0.000	297.00
37 1 3.64 0	187 121 180 g066 s				
2 4695	6 9 12.1896	64 23 50.587	10.900 11.200	5.100	116.00
5 2 45.00 0	187 121 180 4695 a				
0 4761 opt?	6 11 30.1907	57 1 32.383	8.582 9.634	22.130	270.00
22 4 8.55 0	187 121 180 4761 s				
4 o 4773a	6 11 36.5786	48 42 40.049	6.222 7.120	7.592	357.05
50 4 1.00 0	187 121 180 4773 s				

0 0614+1509pl	6 14	1.5857	15 9	54.382	13.600	13.600	0.000	297.00
06 2 45.00 0	187 121	180 p150	s					
4 o 4841	6 14	52.6967	22 30	24.566	3.382	6.070	1.700	260.70
59 4 0.07 0	187 121	180 4841	s					
2 HIP 29873 pl	6 17	23.3923	57 24	53.367	7.150	7.150	0.000	297.00
62 1 1.01 0	187 121	180 g067	s					
5 HIP 29886 pl	6 17	36.0385	39 51	30.456	7.290	7.290	0.000	297.00
60 1 1.15 0	187 121	180 g068	s					
5 4888a	6 18	30.0000	53 39	0.306	7.742	11.000	9.000	43.00
33 4 3.94 0	187 121	180 4888	w					
5 HIP 29988 pl	6 18	45.5233	15 16	52.228	11.750	11.750	0.000	297.00
5 1 45.00 0	187 121	180 g069	s					
0 0618+1614pl	6 18	52.5238	16 14	56.108	14.500	14.500	0.000	297.00
06 1 45.00 0	187 121	180 q049	s					
0 4929a	6 19	58.9640	28 25	36.613	8.161	8.345	0.265	140.00
50 4 1.00 0	187 121	180 4929	a					
2 HIP 30165 pl	6 20	49.9925	52 8	54.002	7.440	7.440	0.000	297.00
57 1 1.32 0	187 121	180 g070	s					
0 0621+6558pl	6 21	14.8553	65 58	16.234	13.800	13.800	0.000	297.00
06 2 45.00 0	187 121	180 p655	s					
0 0621+3652pl	6 21	31.6094	36 52	57.274	14.900	14.900	0.000	297.00
06 1 45.00 0	187 121	180 q050	s					
3 5005	6 24	6.2577	37 33	27.336	8.900	9.100	9.200	303.00
50 4 1.00 0	187 121	180 5005	a					
3 o 4957	6 24	12.5750	73 54	56.912	9.718	10.323	3.790	46.30
5 2 45.00 0	187 121	180 4957	s					
2 0624+4405 pl	6 24	46.6279	44 5	11.022	13.878	13.878	0.000	297.00
06 1 45.00 0	187 121	180 q336	s					
= clbr2 327	6 29	56.5992	54 46	32.136	8.794	9.788	166.846	114.91
5 1 30.00 0	187 121	180 l327	s					
2 0632+2230 pl	6 32	29.3774	22 30	4.691	16.480	16.480	0.000	297.00
06 1 45.00 0	187 121	180 q405	s					
0 0633+5752pl	6 33	32.8070	57 52	40.202	14.000	14.000	0.000	297.00
06 1 45.00 0	187 121	180 q051	s					
4 n 5178a	6 33	57.5030	52 27	43.925	7.325	8.434	4.800	334.10
50 4 1.00 0	187 121	180 5178	e					
0 0638+2219pl	6 38	8.0292	22 19	51.503	14.800	14.800	0.000	297.00
06 1 45.00 0	187 121	180 q052	s					
3 o wds 06425+6612	6 42	29.3258	66 11	52.232	7.335	9.452	1.630	308.50
38 4 2.71 0	187 121	180 0642	s					
< 0642+2344 pl	6 42	38.6791	23 44	58.243	16.384	16.384	0.000	297.00
06 1 45.00 0	187 121	180 q337	s					
7 5375a	6 44	5.9029	38 22	33.020	9.100	9.300	6.800	69.00
15 4 13.77 0	187 121	180 5375	n					
5 5400a	6 46	14.2686	59 26	30.297	5.515	6.071	1.816	76.70
50 4 0.50 0	187 121	180 5400	s					
6 5436a	6 48	12.4994	55 42	16.542	6.413	6.383	5.000	258.00
50 4 1.00 0	187 121	180 5436	s					
< 0648+1803 pl	6 48	43.1652	18 3	3.121	16.242	16.242	0.000	297.00
06 1 45.00 0	187 121	180 q338	s					
2 HIP 32673 pl	6 48	53.9294	37 30	19.085	8.070	8.070	0.000	297.00
46 1 2.36 0	187 121	180 g071	s					
0 0649+3706pl	6 49	5.4511	37 6	50.602	13.600	13.600	0.000	297.00
06 2 45.00 0	187 121	180 p370	s					
2 HIP 32888 pl	6 51	10.4021	63 3	37.988	9.190	9.190	0.000	297.00
25 1 6.62 0	187 121	180 g072	s					
6 o 5570a	6 55	28.3542	30 9	44.824	8.767	9.072	1.590	131.40
50 4 1.00 0	187 121	180 5570	s					
; 0656+4401 pl	6 56	30.9559	44 1	56.003	14.377	14.377	0.000	297.00
06 1 45.00 0	187 121	180 q339	s					
0 n wds 06586+2339	6 58	35.4243	23 38	57.071	10.500	10.700	3.700	221.00
5 2 45.00 0	187 121	180 0658	e					

3 n 5655		7	1	45.4631	66	37	25.109	10.000	11.100	3.500	141.00
5 2 45.00 0	187	121		180 5655 e							
0 0703+5242pl		7	3	55.7338	52	42	6.620	12.600	12.600	0.000	297.00
06 2 45.00 0	187	121		180 p524 s							
: 0704+2459 pl		7	4	49.6399	24	59	55.133	11.146	11.146	0.000	297.00
06 1 45.00 0	187	121		180 q340 s							
4 o 5701a		7	4	54.9972	72	40	10.003	9.257	10.652	3.630	193.70
5 2 45.00 0	187	121		180 5701 s							
4 5746a		7	5	39.9452	52	45	29.475	6.884	7.048	4.178	149.10
50 4 1.00 0	187	121		180 5746 s							
3 HIP 34630 pl		7	10	23.8070	24	20	42.468	11.850	11.850	0.000	297.00
5 1 45.00 0	187	121		180 g073 s							
4 n 5845a		7	11	37.8670	45	2	15.774	9.346	11.077	3.340	128.90
5 2 45.00 0	187	121		180 5845 e							
2 HIP 34804 pl		7	12	17.1194	59	15	54.610	10.670	10.670	0.000	297.00
8 1 25.89 0	187	121		180 g074 s							
7 HIP 34806 pl		7	12	18.5484	36	7	37.685	7.760	7.760	0.000	297.00
52 1 1.77 0	187	121		180 g075 s							
5 HIP 34926 pl		7	13	37.2535	47	16	0.150	7.040	7.040	0.000	297.00
63 1 0.91 0	187	121		180 g076 s							
5 HIP 35409 pl		7	18	39.7673	48	7	23.597	8.330	8.330	0.000	297.00
41 1 3.00 0	187	121		180 g077 s							
6 5983a		7	20	7.3893	21	58	56.422	3.579	8.200	5.900	224.00
58 4 0.09 0	187	121		180 5983 a							
0 0723+4540pl		7	23	36.7987	45	40	47.039	15.000	15.000	0.000	297.00
06 1 45.00 0	187	121		180 q053 s							
5 nwdsa07269+3054		7	26	50.5296	30	54	3.003	10.600	10.700	15.100	42.00
5 2 45.00 0	187	121		180 0726 e							
0 0728+3756pl		7	28	18.5119	37	56	32.744	13.600	13.600	0.000	297.00
06 1 45.00 0	187	121		180 q054 s							
7 wdsa07300+4958		7	29	57.8589	49	58	8.814	8.917	9.030	29.773	323.10
5 2 45.00 0	187	121		180 0730 a							
2 7 22.3 y 49 71		7	30	16.5195	49	58	42.346	8.917	9.030	0.873	192.10
100 4 1.00 0	187	121		180 0722 e							
0 0730+4811pl		7	30	42.7771	48	11	58.657	13.000	13.000	103.000	333.00
06 2 45.00 0	187	121		180 pa81 s							
0 0732+3427pl		7	32	18.5981	34	27	1.580	15.900	15.900	0.000	297.00
06 1 45.00 0	187	121		180 q055 s							
0 0733+2223pl		7	33	52.8773	22	23	33.317	15.100	15.100	0.000	297.00
06 2 45.00 0	187	121		180 p222 s							
0 n 6175a		7	34	36.1234	31	53	19.480	1.934	2.972	3.124	75.60
59 4 0.02 0	187	121		180 6175 e							
0 0735+4610pl		7	35	32.4226	46	10	31.343	12.700	12.700	0.000	297.00
06 1 45.00 0	187	121		180 q056 s							
2 6250		7	40	14.3680	42	06	17.740	8.701	11.319	8.860	66.90
10 2 10.00 0	187	121		180 6250 e							
2 6319		7	45	52.3645	65	09	21.173	7.851	7.826	15.000	5.00
50 4 1.00 0	187	121		180 6319 e							
2 SpB 473		7	46	7.4937	18	30	36.608	5.040	0.000	0.000	0.00
50 2 1.00 0	187	121		180 0473 e							
0 0748+5908pl		7	48	8.3038	59	8	18.204	12.200	12.200	0.000	297.00
06 1 45.00 0	187	121		180 q057 s							
6 HIP 38104 pl		7	48	31.7450	47	45	55.831	8.030	8.030	0.000	297.00
47 1 2.28 0	187	121		180 g078 s							
0 0753+5106pl		7	53	58.4602	51	6	12.010	12.900	12.900	0.000	297.00
06 1 45.00 0	187	121		180 q058 s							
2 6422		7	54	28.7816	62	08	11.526	8.010	11.100	3.000	241.00
6 2 30.00 0	187	121		180 6422 e							
5 HIP 38673 pl		7	55	5.1657	51	51	43.350	10.190	10.190	0.000	297.00
12 1 16.64 0	187	121		180 g079 s							
2 6435		7	55	18.0000	62	14	0.000	10.000	10.100	3.000	235.00
6 2 30.00 0	187	121		180 6435 e							

2	6481			7	58	18.0000	50	16	0.000	9.100	9.100	3.000	284.00
6	2	30.00	0	187	121	180	6481	e					
2	6480			7	59	6.0000	65	48	0.000	9.800	9.900	5.000	253.00
6	2	30.00	0	187	121	180	6480	e					
0	0801+4450	pl		8	1	16.6150	44	50	43.764	15.100	15.100	0.000	297.00
06	1	45.00	0	187	121	180	q059	s					
0	nwds	08020+2532		8	1	59.9126	25	32	41.795	11.100	11.100	13.100	284.00
5	2	45.00	0	187	121	180	0802	e					
0	0802+2534	pl		8	2	54.2467	25	34	59.297	14.200	14.200	0.000	297.00
06	1	45.00	0	187	121	180	q060	s					
4	6520a			8	2	54.7845	62	2	58.043	12.200	12.200	3.000	332.00
5	2	45.00	0	187	121	180	6520	n					
0	0803+3456	pl		8	3	6.1066	34	56	54.827	15.300	15.300	0.000	297.00
06	2	45.00	0	187	121	180	p345	s					
<	0806+3645	pl		8	6	48.4058	36	45	38.725	12.852	12.852	0.000	297.00
06	1	45.00	0	187	121	180	q341	s					
0	wda08071+6203	opt		8	7	6.0000	62	3	0.000	9.000	9.000	7.800	161.00
5	4	45.00	0	187	121	180	0807	w					
5	HIP	39785	pl	8	7	48.5341	38	34	50.411	7.100	7.100	0.000	297.00
63	1	0.97	0	187	121	180	g080	s					
3	nwds	08082+2106		8	8	13.5731	21	6	16.833	9.519	11.201	10.640	148.10
5	2	45.00	0	187	121	180	0808	e					
3	owds	08090+3249		8	8	56.4219	32	49	13.071	10.043	12.314	11.250	292.40
5	2	45.00	0	187	121	180	b808	s					
5	o	6623a		8	9	30.3398	32	13	16.177	7.246	7.961	2.898	24.60
50	4	1.00	0	187	121	180	6623	s					
6	HIP	40046	pl	8	10	48.3209	67	12	46.277	8.380	8.380	0.000	297.00
40	1	3.14	0	187	121	180	g081	s					
6	HIP	40253	pl	8	13	17.4612	49	13	17.826	8.540	8.540	0.000	297.00
37	1	3.64	0	187	121	180	g082	s					
4	HIP	40400	pl	8	14	52.4050	36	27	37.440	10.240	10.240	0.000	297.00
12	1	17.42	0	187	121	180	g083	s					
3	HIP	40462	pl	8	15	42.1194	66	10	32.840	7.150	7.150	0.000	297.00
62	1	1.01	0	187	121	180	g084	s					
5	HIP	40472	pl	8	15	49.4000	32	10	38.088	7.360	7.360	0.000	297.00
59	1	1.23	0	187	121	180	g085	s					
6	6646			8	16	32.1736	79	30	14.135	8.520	8.679	20.760	14.62
50	4	1.00	0	187	121	180	6646	s					
6	6700a			8	16	42.0000	40	53	0.000	8.500	9.400	20.500	341.00
15	2	7.93	0	187	121	180	6700	w					
0	0825+6902	pl		8	25	52.7491	69	2	0.629	14.500	14.500	0.000	297.00
06	2	45.00	0	187	121	180	p690	s					
4	o	6811a		8	26	39.8183	24	32	3.711	6.994	7.863	5.722	49.88
50	4	1.00	0	187	121	180	6811	s					
3	n	6815a		8	26	46.9577	26	56	5.706	6.263	6.313	5.162	217.68
50	4	1.00	0	187	121	180	6815	e					
6	HIP	41513	pl	8	27	58.1534	22	6	7.580	9.650	9.650	0.000	297.00
19	1	10.12	0	187	121	180	g086	s					
0	0828+1709	pl		8	28	55.6330	17	9	33.253	15.500	15.500	0.000	297.00
06	1	45.00	0	187	121	180	q061	s					
5	HIP	41762	pl	8	30	58.1199	48	0	48.460	9.070	9.070	0.000	297.00
27	1	5.93	0	187	121	180	g087	s					
3	HIP	41810	pl	8	31	27.9350	54	27	38.816	9.580	9.580	0.000	297.00
20	1	9.49	0	187	121	180	g088	s					
:	0833+1828	pl		8	33	33.1164	18	28	41.585	16.105	16.105	0.000	297.00
06	1	45.00	0	187	121	180	q342	s					
:	0833+1831	pl		8	33	25.1258	18	31	45.235	14.897	14.897	0.000	297.00
06	1	45.00	0	187	121	180	q343	s					
;	0835+3805	pl		8	35	5.6177	38	5	7.577	16.093	16.093	0.000	297.00
06	1	45.00	0	187	121	180	q344	s					
;	0834+3659	pl		8	34	0.2674	36	59	24.032	15.985	15.985	0.000	297.00
06	1	45.00	0	187	121	180	q406	s					

0	0835+6804pl		8	35	49.0687	68	4	9.336	11.100	11.100	0.000	297.00
06	2	45.00	0	187	121	180	pb80	s				
8	0836+1700 pl		8	36	6.3355	17	0	47.246	15.499	15.499	0.000	297.00
06	1	45.00	0	187	121	180	q345	s				
4	n 6891a		8	36	55.8538	23	14	50.179	9.564	9.699	2.620	1.80
5	2	45.00	0	187	121	180	6891	e				
9	0837+2612 pl		8	37	22.8259	26	12	23.821	14.239	14.239	0.000	297.00
06	1	45.00	0	187	121	180	q346	s				
7	HIP 42338 pl		8	37	54.5809	60	35	24.186	9.220	9.220	0.000	297.00
25	1	6.81	0	187	121	180	g089	s				
3	HIP 42351 pl		8	38	3.8929	45	53	0.994	9.170	9.170	0.000	297.00
26	1	6.50	0	187	121	180	g090	s				
4	HIP 42392 pl		8	38	30.5773	31	54	58.040	10.510	10.510	0.000	297.00
9	1	22.34	0	187	121	180	g091	s				
0	0838+6240pl		8	38	59.4288	62	40	42.355	14.100	14.100	0.000	297.00
06	1	45.00	0	187	121	180	q062	s				
0	0841+5929pl		8	41	20.1343	59	29	50.608	14.100	14.100	0.000	297.00
06	2	45.00	0	187	121	180	p592	s				
4	n 6907a		8	41	34.3332	69	24	17.368	11.450	11.705	3.170	232.00
5	2	45.00	0	187	121	180	6907	e				
3	HIP 42783 pl		8	43	2.8346	24	8	14.019	10.100	10.100	0.000	297.00
13	1	15.31	0	187	121	180	g092	s				
0	0847+2153pl		8	47	32.9225	21	53	14.474	15.100	15.100	0.000	297.00
06	1	45.00	0	187	121	180	q063	s				
0	0850+3438pl		8	50	42.0300	34	38	43.732	13.200	13.200	0.000	297.00
06	1	45.00	0	187	121	180	q064	s				
5	7034a		8	50	44.2325	35	4	14.761	7.685	7.759	3.570	278.59
50	4	1.00	0	187	121	180	7034	s				
5	HIP 43429 pl		8	50	45.7915	47	58	38.591	9.970	9.970	0.000	297.00
15	1	13.59	0	187	121	180	g093	s				
4	HIP 43649 pl		8	53	26.4013	41	59	8.881	8.720	8.720	0.000	297.00
34	1	4.30	0	187	121	180	g094	s				
0	0853+6332pl		8	53	58.0114	63	32	28.205	13.500	13.500	0.000	297.00
06	1	45.00	0	187	121	180	q065	s				
3	o 7071a		8	54	14.7047	30	34	45.038	6.205	6.427	1.504	313.00
50	4	1.00	0	187	121	180	7071	s				
7	wdsa08558+6458		8	55	51.0070	64	58	21.582	10.000	10.500	20.700	109.00
5	2	45.00	0	187	121	180	0855	a				
3	HIP 44014 pl		8	57	46.6575	38	15	32.722	7.100	7.100	0.000	297.00
63	1	0.97	0	187	121	180	g095	s				
0	7114		8	59	12.8387	48	2	32.458	3.159	9.500	3.900	24.00
59	4	0.06	0	187	121	180	7114	a				
8	0859+3517 pl		8	59	50.1672	35	17	2.839	16.222	16.222	0.000	297.00
06	1	45.00	0	187	121	180	q347	s				
0	0900+4825pl		9	0	52.0862	48	25	24.668	13.400	13.400	0.000	297.00
06	2	45.00	0	187	121	180	p482	s				
5	n 7139a		9	1	17.5425	15	15	56.965	9.334	9.618	5.169	183.30
5	2	45.00	0	187	121	180	7139	e				
0	n 7137		9	1	24.2545	32	15	6.654	5.992	8.790	4.520	135.30
50	4	1.00	0	187	121	180	7137	e				
5	HIP 44313 pl		9	1	29.8176	15	11	33.731	8.370	8.370	0.000	297.00
40	1	3.11	0	187	121	180	g096	s				
8	0902+4630 pl		9	2	17.8236	46	30	33.851	12.727	12.727	0.000	297.00
06	1	45.00	0	187	121	180	q348	s				
3	HIP 44387 pl		9	2	30.7235	25	53	23.505	9.950	9.950	0.000	297.00
15	1	13.34	0	187	121	180	g097	s				
0	0905+3531pl		9	5	56.7187	35	31	33.863	13.600	13.600	0.000	297.00
06	1	45.00	0	187	121	180	q066	s				
0	0905+6733pl		9	5	45.4980	67	33	45.551	13.700	13.700	0.000	297.00
06	1	45.00	0	187	121	180	q067	s				
0	0906+6340pl		9	6	57.5904	63	40	18.613	11.000	11.000	0.000	297.00
06	1	45.00	0	187	121	180	q068	s				

4 o 7187a	9	7	27.0119	22	58	51.112	7.078	7.446	7.625	199.25
50 4 1.00 0	187	121	180 7187 s							
0 0907+3304pl	9	7	29.4360	33	4	43.626	15.400	15.400	0.000	297.00
06 1 45.00 0	187	121	180 q069 s							
4 n 7189a	9	8	5.6396	45	10	32.010	9.500	9.900	6.300	175.00
5 2 45.00 0	187	121	180 7189 e							
; 0908+3528 pl	9	8	57.5318	35	28	46.283	13.299	13.299	0.000	297.00
06 1 45.00 0	187	121	180 q349 s							
= clbr2 8	9	12	51.8676	20	2	7.063	9.825	9.829	92.390	189.35
5 1 30.00 0	187	121	180 l008 s							
0 0913+4211pl	9	13	22.4450	42	11	32.330	12.600	12.600	0.000	297.00
06 1 45.00 0	187	121	180 q070 s							
3 o 7235	9	13	23.1885	51	32	57.111	9.563	12.167	7.520	294.00
5 2 45.00 0	187	121	180 7235 s							
5 o 7243a	9	13	38.7802	46	59	25.419	7.886	9.513	2.710	231.40
31 4 4.50 0	187	121	180 7243 s							
7 7251a	9	14	25.2303	52	41	16.735	7.780	7.966	17.470	90.25
50 4 1.00 0	187	121	180 7251 s							
: 0914+2616 pl	9	14	36.4637	26	16	5.650	14.135	14.135	0.000	297.00
06 1 45.00 0	187	121	180 q350 s							
0 0915+5325pl	9	15	56.0998	53	25	23.722	14.100	14.100	0.000	297.00
06 2 45.00 0	187	121	180 p532 s							
4 n 7281a	9	17	19.3429	23	39	12.975	8.038	8.361	5.898	27.56
50 4 1.00 0	187	121	180 7281 e							
0 0917+5825pl	9	17	45.9998	58	25	21.454	13.900	13.900	0.000	297.00
06 2 45.00 0	187	121	180 p582 s							
0 o 7292a	9	18	50.6673	36	48	10.431	3.948	6.300	2.690	226.30
58 4 0.12 0	187	121	180 7292 s							
7 HIP 45790 pl	9	20	11.2260	41	51	56.193	10.870	10.870	0.000	297.00
7 1 31.13 0	187	121	180 g098 s							
8 0921+2332 pl	9	21	12.5134	23	32	37.187	16.003	16.003	0.000	297.00
06 1 45.00 0	187	121	180 q351 s							
7 HIP 46100 pl	9	24	5.3138	18	11	6.831	8.890	8.890	0.000	297.00
31 1 5.02 0	187	121	180 g099 s							
5 HIP 46449 pl	9	28	25.3251	15	9	56.023	8.480	8.480	0.000	297.00
38 1 3.44 0	187	121	180 g100 s							
7 HIP 46605 pl	9	30	12.0125	72	18	59.763	8.230	8.230	0.000	297.00
43 1 2.74 0	187	121	180 g101 s							
3 HIP 46660 pl	9	30	47.5272	32	42	3.333	10.180	10.180	0.000	297.00
12 1 16.49 0	187	121	180 g102 s							
4 HIP 46857 pl	9	32	55.5741	38	52	50.757	10.180	10.180	0.000	297.00
12 1 16.49 0	187	121	180 g103 s							
0 7418 opt	9	32	58.2028	56	14	59.110	8.500	9.200	7.600	57.00
50 4 1.00 0	187	121	180 7418 o							
9 0937+4353 pl	9	37	32.6698	43	53	38.004	10.056	10.056	0.000	297.00
06 1 45.00 0	187	121	180 q407 s							
3 HIP 47244 pl	9	37	48.2126	36	35	39.291	8.960	8.960	0.000	297.00
29 1 5.36 0	187	121	180 g104 s							
5 7446a	9	37	56.7456	73	4	48.132	7.132	7.335	4.952	126.30
50 4 1.00 0	187	121	180 7446 s							
3 HIP 47266 pl	9	38	1.3150	14	20	50.837	6.630	6.630	0.000	297.00
68 1 0.63 0	187	121	180 g105 s							
0 0938+2200pl	9	38	17.5270	22	0	43.567	13.300	13.300	0.000	297.00
06 1 45.00 0	187	121	180 q071 s							
5 o 7477a	9	41	21.8782	38	57	1.888	7.334	8.687	2.922	304.90
50 4 1.00 0	187	121	180 7477 s							
7 HIP 47576 pl	9	42	2.5428	23	19	44.965	8.210	8.210	0.000	297.00
43 1 2.69 0	187	121	180 g106 s							
0 0951+2649pl	9	51	7.9505	26	49	50.030	15.900	15.900	0.000	297.00
06 1 45.00 0	187	121	180 q072 s							
0 o 7546a	9	52	15.5239	40	58	13.390	8.106	10.536	1.890	290.70
28 4 5.51 0	187	121	180 7546 s							

5	7551a	9	52	26.0694	26	58	55.492	9.121	9.552	2.496	294.00
15	4 14.04 0	187	121	180 7551 s							
0	0953+1845pl	9	53	13.5792	18	45	5.011	15.800	15.800	0.000	297.00
06	1 45.00 0	187	121	180 q073 s							
4	n 7554a	9	53	17.0219	50	37	18.057	7.468	10.754	4.870	308.50
37	4 3.06 0	187	121	180 7554 e							
<	0953+2729 pl	9	53	54.9535	27	29	39.516	16.943	16.943	0.000	297.00
06	1 45.00 0	187	121	180 q352 s							
;	0955+3013 pl	9	55	25.0562	30	13	58.292	14.650	14.650	0.000	297.00
06	1 45.00 0	187	121	180 q353 s							
7	HIP 48742 pl	9	56	31.3583	32	23	4.592	6.550	6.550	0.000	297.00
69	1 0.58 0	187	121	180 g107 s							
3	7588a	9	57	14.3843	45	54	9.998	8.977	9.839	4.432	249.00
17	4 12.30 0	187	121	180 7588 s							
5	HIP 49150 pl	10	1	51.8622	50	28	50.725	7.950	7.950	0.000	297.00
48	1 2.11 0	187	121	180 g108 s							
4	o 7611a	10	2	56.4854	68	47	9.321	8.082	10.546	3.330	225.00
28	4 5.39 0	187	121	180 7611 s							
7	7639a	10	7	17.9910	59	7	35.386	9.000	10.100	3.600	195.00
17	4 12.56 0	187	121	180 7639 n							
5	HIP 49623 pl	10	7	39.3684	15	9	27.799	7.140	7.140	0.000	297.00
62	1 1.00 0	187	121	180 g109 s							
0	1008+1510pl	10	8	46.6332	15	10	8.821	15.400	15.400	0.000	297.00
06	1 45.00 0	187	121	180 q074 s							
0	1009+4651pl	10	9	56.7701	46	51	18.450	14.000	14.000	0.000	297.00
06	1 45.00 0	187	121	180 q075 s							
0	1010+2126pl	10	10	36.4013	21	26	10.846	15.500	15.500	0.000	297.00
06	1 45.00 0	187	121	180 q076 s							
3	owds 10110+7508	10	10	58.0261	75	8	26.622	10.306	10.373	1.530	112.00
5	2 45.00 0	187	121	180 1011 s							
4	o 7686a	10	13	51.4375	60	36	16.235	8.626	11.513	6.580	237.60
21	4 8.90 0	187	121	180 7686 s							
<	1014+3728 pl	10	14	20.1086	37	28	40.516	13.938	13.938	0.000	297.00
06	1 45.00 0	187	121	180 q354 s							
0	1014+6209pl	10	14	42.8686	62	9	27.554	14.500	14.500	0.000	297.00
06	1 45.00 0	187	121	180 q077 s							
0	1017+2853pl	10	17	12.5062	28	53	28.295	15.900	15.900	0.000	297.00
06	1 45.00 0	187	121	180 q078 s							
:	1017+2154Epl	10	17	42.3194	21	54	54.774	16.501	16.501	0.000	297.00
06	1 45.00 0	187	121	180 q355 s							
0	1018+6512pl	10	18	40.6349	65	12	0.018	15.300	15.300	0.000	297.00
06	1 45.00 0	187	121	180 q079 s							
5	7724a	10	19	58.2957	19	50	29.404	2.491	3.644	4.581	124.38
59	4 0.03 0	187	121	180 7724 s							
3	7752a	10	24	48.0000	67	39	00.000	9.500	9.900	6.600	249.00
5	2 45.00 0	187	121	180 7752 w							
0	7752pl par1	10	24	48.0000	67	39	00.000	9.500	9.900	6.600	249.00
12	1 20.00 0	187	121	180 p75a w							
5	n 7762a	10	25	59.1827	52	37	18.657	8.067	8.466	2.917	87.61
50	4 1.00 0	187	121	180 7762 e							
7	HIP 51157 pl	10	26	59.3917	26	38	29.988	8.230	8.230	0.000	297.00
43	1 2.74 0	187	121	180 g110 s							
4	n 7778a	10	27	8.2613	18	3	46.188	9.487	9.568	6.450	280.24
5	2 45.00 0	187	121	180 7778 e							
4	n 7784a	10	28	30.7412	47	33	1.905	10.400	10.700	4.200	173.00
5	2 45.00 0	187	121	180 7784 e							
0	1030+4944pl	10	30	57.4438	49	44	48.779	15.000	15.000	0.000	297.00
06	1 45.00 0	187	121	180 q080 s							
0	1033+2559pl	10	33	20.4125	25	59	20.677	15.700	15.700	0.000	297.00
06	1 45.00 0	187	121	180 q081 s							
0	1035+6926pl	10	35	26.9750	69	26	58.891	11.100	11.100	0.000	297.00
06	2 45.00 0	187	121	180 p692 s							

3 n 7848a	10	36	55.9270	45	4	24.396	10.800	11.300	2.900	349.00
5 2 45.00 0	187	121	180 7848 e							
3 n 7843	10	37	11.1536	86	3	28.382	8.300	10.400	14.300	344.00
16 2 6.59 0	187	121	180 7843 e							
0 1037+4812pl	10	37	51.1157	48	12	51.818	14.700	14.700	0.000	297.00
06 1 45.00 0	187	121	180 q082 s							
5 o 7860a	10	38	10.9529	26	36	25.262	9.067	11.006	1.640	341.30
16 4 13.36 0	187	121	180 7860 s							
5 wds 10390+7839	10	39	0.0000	78	39	0.000	10.100	10.500	5.300	85.00
5 2 45.00 0	187	121	180 1039 w							
: 1039+4022 pl	10	39	0.9010	40	22	26.443	13.864	13.864	0.000	297.00
06 1 45.00 0	187	121	180 q356 s							
5 HIP 52241 pl	10	40	21.4703	11	11	31.112	11.290	11.290	0.000	297.00
5 1 45.00 0	187	121	180 g111 s							
5 HIP 52510 pl	10	44	12.2914	39	55	9.538	8.310	8.310	0.000	297.00
42 1 2.94 0	187	121	180 g112 s							
0 1046+3217pl	10	46	3.8928	32	17	23.096	13.600	13.600	0.000	297.00
06 1 45.00 0	187	121	180 q083 s							
0 1048+5127pl	10	48	57.7478	51	27	29.074	13.500	13.500	0.000	297.00
06 1 45.00 0	187	121	180 q084 s							
0 1049+3532pl	10	49	45.5566	35	32	50.492	12.600	12.600	0.000	297.00
06 2 45.00 0	187	121	180 p353 s							
4 HIP 52958 pl	10	49	52.8017	20	29	30.641	9.940	9.940	0.000	297.00
15 1 13.22 0	187	121	180 g113 s							
7 owdsa10527+3513	10	52	40.2035	35	13	16.895	10.436	12.855	2.950	123.00
5 2 45.00 0	187	121	180 1052 s							
5 7962a	10	53	12.7779	43	58	39.798	8.500	9.300	9.200	38.00
23 4 7.93 0	187	121	180 7962 n							
0 7962pl par1	10	53	12.7779	43	58	39.798	8.500	9.300	9.200	38.00
24 1 10.00 0	187	121	180 p96a n							
5 n 7971a	10	54	30.8046	47	29	35.497	9.668	9.691	2.550	63.60
5 2 45.00 0	187	121	180 7971 e							
6 n 7974a	10	54	32.6518	20	46	26.631	8.767	11.947	8.940	36.00
19 4 10.14 0	187	121	180 7974 e							
5 n 7979a	10	55	37.0726	24	44	57.913	4.491	6.439	6.575	111.46
57 4 0.20 0	187	121	180 7979 e							
3 nwds 10564+7115	10	56	25.0496	71	14	42.039	9.430	11.888	5.050	53.60
5 2 45.00 0	187	121	180 1056 e							
9 1056+4201 pl	10	56	26.6930	42	1	33.564	15.121	15.121	0.000	297.00
06 1 45.00 0	187	121	180 q357 s							
6 nwdsa10566+2755	10	56	34.9139	27	55	30.906	10.100	11.500	18.400	120.00
5 2 45.00 0	187	121	180 a056 e							
4 HIP 53522 pl	10	56	57.8599	15	16	46.301	10.140	10.140	0.000	297.00
13 1 15.89 0	187	121	180 g114 s							
5 HIP 53541 pl	10	57	11.1628	28	56	18.373	8.940	8.940	0.000	297.00
30 1 5.26 0	187	121	180 g115 s							
3 o 7993	10	58	43.7529	69	48	43.641	8.211	11.101	13.570	87.80
27 4 6.07 0	187	121	180 7993 s							
0 1058+5019pl	10	58	53.9722	50	19	40.645	14.000	14.000	0.000	297.00
06 1 45.00 0	187	121	180 q085 s							
6 8002a	10	59	38.3116	25	26	15.484	8.500	8.900	5.300	110.00
50 4 1.00 0	187	121	180 8002 a							
0 8002pl par1	10	59	38.3116	25	26	15.484	8.500	8.900	5.300	110.00
24 1 10.00 0	187	121	180 p00a a							
: 1103+1547 pl	11	3	19.9730	15	47	37.000	16.707	16.707	0.000	297.00
06 1 45.00 0	187	121	180 q358 s							
7 Lalande 21185	11	3	20.6122	35	58	53.271	7.500	7.500	0.000	000.00
19 1 3.47 0	187	121	180 s185 s							
: 1105+3414 pl	11	5	33.8232	34	14	35.459	13.168	13.168	0.000	297.00
06 1 45.00 0	187	121	180 q359 s							
0 1106+5312pl	11	6	7.4707	53	12	9.684	14.100	14.100	0.000	297.00
06 1 45.00 0	187	121	180 q086 s							

5	8065a	11	7	59.9698	52	49	20.255	7.726	9.224	5.346	329.42
33	4	3.89	0	187	121	180	8065	s			
3	o 8066	11	9	28.5248	83	5	45.689	10.134	10.554	6.960	319.22
5	2	45.00	0	187	121	180	8066	s			
0	1110+2856pl	11	10	8.3642	28	56	50.809	12.300	12.300	0.000	297.00
06	2	45.00	0	187	121	180	p285	s			
5	owdsa11114+4325	11	11	19.9839	43	25	6.297	11.622	11.687	3.790	79.70
5	2	45.00	0	187	121	180	1111	s			
0	1113+5858pl	11	13	27.4073	58	58	48.904	15.500	15.500	0.000	297.00
06	1	45.00	0	187	121	180	q087	s			
8	1115+1927 pl	11	15	12.4109	19	27	12.053	12.329	12.329	0.000	297.00
06	1	45.00	0	187	121	180	q360	s			
7	8100	11	15	19.2538	73	28	23.250	7.785	8.366	30.000	102.00
50	4	1.00	0	187	121	180	8100	s			
0	1115+3202pl	11	15	37.6867	32	2	15.709	12.300	12.300	0.000	297.00
06	1	45.00	0	187	121	180	q088	s			
0	1117+1715pl	11	17	44.2968	17	15	14.688	12.400	12.400	0.000	297.00
06	1	45.00	0	187	121	180	q089	s			
3	HIP 55206 pl	11	18	16.2480	27	57	19.751	10.640	10.640	0.000	297.00
8	1	25.18	0	187	121	180	g116	s			
0	1118+2704pl	11	18	25.7153	27	4	48.432	12.500	12.500	0.000	297.00
06	1	45.00	0	187	121	180	q090	s			
9	1121+2531 pl	11	21	29.5056	25	31	28.042	13.850	13.850	0.000	297.00
06	1	45.00	0	187	121	180	q361	s			
5	n 8140a	11	21	49.3116	18	11	26.725	8.133	11.136	5.170	316.90
28	4	5.65	0	187	121	180	8140	e			
0	1122+4809pl	11	22	29.6191	48	9	55.638	15.900	15.900	0.000	297.00
06	1	45.00	0	187	121	180	q091	s			
0	1123+2553pl	11	23	7.9577	25	53	36.816	13.900	13.900	0.000	297.00
06	2	45.00	0	187	121	180	p255	s			
7	HIP 55738 pl	11	25	13.9671	50	29	55.968	8.360	8.360	0.000	297.00
41	1	3.08	0	187	121	180	g117	s			
5	HIP 55908 pl	11	27	34.1297	42	17	13.863	10.940	10.940	0.000	297.00
6	1	33.20	0	187	121	180	g118	s			
5	n 8175a	11	29	4.1464	39	20	15.726	5.382	9.008	5.480	356.10
55	4	0.45	0	187	121	180	8175	e			
:	1130+2958 pl	11	30	7.1558	29	58	48.821	8.926	8.926	0.000	297.00
06	1	45.00	0	187	121	180	q408	s			
3	o 8199a	11	32	20.5877	56	5	42.599	7.604	10.529	11.460	348.40
19	2	3.47	0	187	121	180	8199	s			
:	1132+1619 pl	11	32	37.2034	16	19	30.770	11.362	11.362	0.000	297.00
06	1	45.00	0	187	121	180	q409	s			
4	HIP 56350 pl	11	33	3.7629	12	9	14.125	12.340	12.340	0.000	297.00
5	1	45.00	0	187	121	180	g119	s			
9	1134+3024 pl	11	34	19.1676	30	24	34.585	15.306	15.306	0.000	297.00
06	1	45.00	0	187	121	180	q362	s			
7	nwdsa11347+6339	11	34	40.7443	63	38	42.696	8.995	11.222	18.950	45.20
12	2	12.50	0	187	121	180	a134	e			
0	1136+2849pl	11	36	9.9060	28	49	31.858	13.200	13.200	0.000	297.00
06	1	45.00	0	187	121	180	q092	s			
4	o 8236a	11	36	35.8805	56	8	8.069	7.827	8.350	6.108	166.15
50	4	1.00	0	187	121	180	8236	s			
5	8250a	11	38	44.9836	45	6	28.553	6.582	8.525	9.224	249.52
50	4	1.00	0	187	121	180	8250	s			
0	1142+2505pl	11	42	7.9798	25	5	52.544	15.600	15.600	0.000	297.00
06	1	45.00	0	187	121	180	q093	s			
0	1142+5248pl	11	42	15.1282	52	48	59.227	14.700	14.700	0.000	297.00
06	1	45.00	0	187	121	180	q094	s			
;	1144+2654 pl	11	44	44.0186	26	54	15.311	13.688	13.688	0.000	297.00
06	1	45.00	0	187	121	180	q363	s			
0	1147+4745pl	11	47	21.6029	47	45	56.484	13.400	13.400	0.000	297.00
06	1	45.00	0	187	121	180	q095	s			

< 1148+1800Ep1	11	48	53.1665	18	0	56.506	15.548	15.548	0.000	297.00
06 1 45.00 0	187	121	180 q364	s						
0 1150+4822pl	11	50	57.7258	48	22	38.651	12.300	12.300	0.000	297.00
06 2 45.00 0	187	121	180 pa82	s						
< 1151+4516 pl	11	51	18.9002	45	16	13.019	12.141	12.141	0.000	297.00
06 1 45.00 0	187	121	180 q365	s						
7 HIP 57863 pl	11	52	4.2135	25	43	31.489	9.520	9.520	0.000	297.00
20 1 8.98 0	187	121	180 g120	s						
3 8333a	11	53	24.0000	43	17	0.000	9.600	9.900	3.700	340.00
5 2 45.00 0	187	121	180 8333	w						
5 HIP 58036 pl	11	54	8.3517	24	41	2.795	9.860	9.860	0.000	297.00
16 1 12.28 0	187	121	180 g121	s						
0 1157+3613pl	11	57	29.7619	36	13	25.270	12.200	12.200	0.000	297.00
06 1 45.00 0	187	121	180 q096	s						
0 1159+6228pl	11	59	39.5544	62	28	41.146	14.500	14.500	0.000	297.00
06 1 45.00 0	187	121	180 q097	s						
0 1200+4105pl	12	0	10.7777	41	5	34.519	12.800	12.800	0.000	297.00
06 1 45.00 0	187	121	180 q099	s						
0 n 8388	12	0	39.5315	58	40	40.797	11.400	11.500	4.300	12.00
5 2 45.00 0	187	121	180 8388	e						
0 1201+2255pl	12	1	18.7318	22	55	36.570	12.600	12.600	0.000	297.00
06 1 45.00 0	187	121	180 q100	s						
0 8397 opt	12	2	16.8226	72	21	47.810	9.672	10.233	12.160	38.44
5 2 45.00 0	187	121	180 8397	o						
0 o 8400	12	2	29.1247	21	44	48.512	8.771	11.496	3.020	146.50
19 4 10.17 0	187	121	180 8400	s						
0 1202+3636pl	12	2	40.1148	36	36	6.847	11.300	11.300	0.000	297.00
06 2 45.00 0	187	121	180 p363	s						
5 o 8421a	12	6	8.6473	38	49	42.963	9.705	10.840	2.090	301.50
5 2 45.00 0	187	121	180 8421	s						
7 HIP 59085 pl	12	7	0.8149	41	37	40.434	9.270	9.270	0.000	297.00
24 1 7.13 0	187	121	180 g122	s						
7 n 8428a	12	7	7.5845	69	4	24.559	8.314	10.580	19.800	179.50
15 2 6.68 0	187	121	180 8428	e						
2 1208+4814 pl	12	8	56.7444	48	14	40.020	15.124	15.124	0.000	297.00
06 1 45.00 0	187	121	180 q366	s						
6 8445a	12	10	21.9012	54	54	36.273	8.200	10.500	36.300	25.00
16 2 6.01 0	187	121	180 8445	n						
0 8445pl par1	12	10	21.9012	54	54	36.273	8.200	10.500	36.300	25.00
24 1 10.00 0	187	121	180 p44a	n						
4 8450a	12	11	27.4421	53	25	13.565	8.113	8.295	13.200	220.90
50 4 1.00 0	187	121	180 8450	s						
3 HIP 59609 pl	12	13	27.9427	23	15	55.811	9.380	9.380	0.000	297.00
22 1 7.89 0	187	121	180 g123	s						
2 1214+2435 pl	12	14	26.0412	24	35	26.246	11.900	11.900	0.000	297.00
06 1 45.00 0	187	121	180 q367	s						
5 HIP 59748 pl	12	15	9.0547	48	43	57.725	10.550	10.550	0.000	297.00
9 1 23.18 0	187	121	180 g124	s						
0 1215+6244pl	12	15	44.4799	62	44	19.583	13.600	13.600	0.000	297.00
06 1 45.00 0	187	121	180 q101	s						
3 HIP 60061 pl	12	19	0.9628	28	2	53.835	8.970	8.970	0.000	297.00
29 1 5.41 0	187	121	180 g125	s						
3 HIP 60097 pl	12	19	28.3654	24	17	3.394	9.020	9.020	0.000	297.00
28 1 5.66 0	187	121	180 g126	s						
4 o 8519a	12	20	41.3703	27	3	17.417	7.126	7.201	8.953	245.33
50 4 1.00 0	187	121	180 8519	s						
0 1221+2854pl	12	21	32.8344	28	54	22.651	15.800	15.800	0.000	297.00
06 1 45.00 0	187	121	180 q102	s						
2 1221+2832 pl	12	21	56.1804	28	32	30.466	9.050	9.050	0.000	297.00
06 1 45.00 0	187	121	180 q410	s						
6 o 8539a	12	24	26.8084	25	34	56.748	6.794	7.936	1.645	325.90
50 4 1.00 0	187	121	180 8539	s						

0	8541a????	12	24	33.4880	37	43	31.149	10.000	10.500	91.300	29.00
4	1 31.55 0	187	121	180	8541	o					
3	HIP 60684 pl	12	26	11.7035	16	6	46.637	10.940	10.940	0.000	297.00
6	1 33.20 0	187	121	180	g127	s					
5	8553a	12	27	13.6717	27	1	32.313	8.929	9.383	2.616	10.00
17	4 11.77 0	187	121	180	8553	s					
5	8604	12	28	28.0859	88	40	32.392	8.600	10.000	8.100	325.00
21	4 8.69 0	187	121	180	8604	a					
0	1231+4950pl	12	31	34.0246	49	50	41.017	13.500	13.500	0.000	297.00
06	1 45.00 0	187	121	180	q103	s					
2	1232+4827Epl	12	32	47.1754	48	27	21.262	11.813	11.813	0.000	297.00
06	1 45.00 0	187	121	180	q368	s					
0	1232+6106pl	12	32	48.6144	61	6	48.017	14.300	14.300	0.000	297.00
06	1 45.00 0	187	121	180	q104	s					
=	c1br2 257	12	33	37.5916	51	14	34.516	9.256	9.886	106.968	86.62
5	1 30.00 0	187	121	180	l257	s					
2	1236+3512 pl	12	36	28.6488	35	12	0.580	14.002	14.002	0.000	297.00
06	1 45.00 0	187	121	180	q369	s					
3	nwdsa12385+5755	12	38	27.5481	57	55	22.547	10.400	11.200	10.900	286.00
5	2 45.00 0	187	121	180	1238	e					
4	HIP 61771 pl	12	39	37.2925	30	48	52.185	10.090	10.090	0.000	297.00
13	1 15.17 0	187	121	180	g128	s					
3	8618a	12	39	38.7862	40	28	35.867	9.300	10.300	3.900	30.00
5	2 45.00 0	187	121	180	8618	a					
3	n 8656a	12	44	47.9945	62	3	9.807	10.800	11.500	4.500	187.00
5	2 45.00 0	187	121	180	8656	e					
3	HIP 62957 pl	12	54	4.9638	21	44	6.319	10.770	10.770	0.000	297.00
7	1 28.39 0	187	121	180	g129	s					
4	o 8710a	12	56	17.6421	54	5	58.139	6.076	7.989	3.766	281.44
50	4 1.00 0	187	121	180	8710	s					
0	nwds 13022+7121	13	2	11.3258	71	20	40.717	11.400	11.800	4.300	358.00
5	2 45.00 0	187	121	180	1302	e					
4	n 8796a	13	8	26.4249	15	29	31.179	8.398	9.234	2.780	336.60
24	4 7.21 0	187	121	180	8796	e					
4	o 8843a	13	16	37.2235	50	34	16.600	9.578	9.835	1.835	135.90
5	2 45.00 0	187	121	180	8843	s					
3	HIP 64872 pl	13	17	48.8862	45	35	6.466	8.690	8.690	0.000	297.00
34	1 4.18 0	187	121	180	g130	s					
6	8861a	13	19	33.8727	35	6	37.792	9.559	11.900	17.650	129.20
5	2 45.00 0	187	121	180	8861	s					
4	HIP 65120 pl	13	20	43.9663	10	52	34.912	11.620	11.620	0.000	297.00
5	1 45.00 0	187	121	180	g131	s					
4	8891a	13	23	55.8133	54	55	25.126	2.254	3.872	14.430	151.96
59	4 0.03 0	187	121	180	8891	s					
4	o 8902a	13	26	8.8603	35	8	35.413	9.742	11.203	3.560	292.30
5	2 45.00 0	187	121	180	8902	s					
4	8933a	13	31	0.6246	36	26	24.931	10.279	10.937	6.170	161.50
5	2 45.00 0	187	121	180	8933	s					
4	8940a	13	32	51.4022	49	8	25.182	8.721	8.985	3.493	294.58
50	4 1.00 0	187	121	180	8940	s					
0	nwds 13337+5418	13	33	45.0612	54	18	4.166	10.400	11.100	8.300	189.00
5	2 45.00 0	187	121	180	1333	e					
4	8959a	13	34	6.2124	67	46	9.776	9.312	9.585	4.247	345.39
5	2 45.00 0	187	121	180	8959	s					
0	o 8974a	13	37	27.6969	36	17	41.427	5.022	7.067	1.800	101.50
56	4 0.32 0	187	121	180	8974	s					
7	8980a	13	37	51.3499	48	8	19.019	10.202	11.186	2.170	311.90
5	2 45.00 0	187	121	180	8980	s					
0	o 8981a	13	38	2.1229	39	10	42.389	8.046	10.257	1.770	40.30
29	4 5.22 0	187	121	180	8981	s					
3	o 9003	13	40	38.4896	81	10	51.206	9.671	11.339	2.060	334.60
5	2 45.00 0	187	121	180	9003	s					

4 n 8991a	13	40	40.6156	19	57	18.747	5.775	9.602	4.660	134.70
53 4 0.64 0	187	121	180 8991 e							
5 HIP 66741 pl	13	40	46.7482	14	33	57.133	9.100	9.100	0.000	297.00
27 1 6.10 0	187	121	180 g132 s							
7 o 9031a	13	49	4.2755	26	58	48.465	7.689	8.148	3.456	166.51
50 4 1.00 0	187	121	180 9031 s							
0 nwds 13501+8555	13	50	4.3024	85	54	54.818	11.300	11.300	2.800	18.00
5 2 45.00 0	187	121	180 1350 e							
0 9037 opt?	13	51	6.8592	34	43	6.719	6.643	6.084	1.000	147.00
50 4 1.00 0	187	121	180 9037 s							
3 HIP 67773 pl	13	53	5.1427	27	48	27.869	8.370	8.370	0.000	297.00
40 1 3.11 0	187	121	180 g133 s							
3 HIP 67808 pl	13	53	27.6534	12	56	39.073	9.780	9.780	0.000	297.00
17 1 11.41 0	187	121	180 g134 s							
6 HIP 67880 pl	13	54	9.9809	44	43	30.460	9.160	9.160	0.000	297.00
26 1 6.44 0	187	121	180 g135 s							
3 o 9088a	14	1	45.1288	58	52	5.926	10.036	11.981	3.170	165.50
5 2 45.00 0	187	121	180 9088 s							
5 nwdsa14019+1530	14	1	58.6855	15	29	40.411	11.420	11.499	1.660	178.00
5 2 45.00 0	187	121	180 1401 e							
4 9090a	14	2	24.0000	46	20	0.000	9.000	9.000	3.700	23.00
50 4 1.00 0	187	121	180 9090 w							
6 n 9112a	14	6	42.0214	34	46	46.563	7.189	10.592	12.790	54.80
40 4 2.37 0	187	121	180 9112 e							
7 nwdsa14068+5946	14	6	46.3400	59	46	16.947	9.735	9.400	48.300	331.00
5 2 45.00 0	187	121	180 1406 e							
0 14088+7715 opti	14	8	45.8460	77	14	40.573	9.800	10.900	12.300	80.00
5 2 45.00 0	187	121	180 1408 a							
4 9133a	14	9	32.8117	35	48	33.207	8.500	8.900	8.900	211.00
50 4 1.00 0	187	121	180 9133 a							
3 o 9136a	14	10	7.7551	26	35	58.092	8.896	9.666	2.630	80.20
18 4 11.41 0	187	121	180 9136 s							
3 owdsa14105+7235	14	10	29.4555	72	35	25.437	8.938	11.821	11.570	155.40
17 4 11.86 0	187	121	180 a410 s							
3 nwds 14105+7235	14	10	29.9912	72	35	20.176	8.938	11.821	11.570	155.40
17 4 11.86 0	187	121	180 1410 e							
4 HIP 69318 pl	14	11	15.8220	22	41	26.741	8.470	8.470	0.000	297.00
38 1 3.41 0	187	121	180 g136 s							
5 HIP 69339 pl	14	11	31.2358	21	48	17.795	9.630	9.630	0.000	297.00
19 1 9.93 0	187	121	180 g137 s							
5 9167a	14	13	1.1524	55	19	30.984	9.063	9.418	2.577	114.50
16 4 13.31 0	187	121	180 9167 s							
4 9173a	14	13	28.3489	51	47	20.161	4.571	6.810	13.500	235.69
57 4 0.21 0	187	121	180 9173 s							
6 HIP 69535 pl	14	14	5.3629	54	38	14.886	7.630	7.630	0.000	297.00
54 1 1.57 0	187	121	180 g138 s							
5 n 9192a	14	16	32.9883	20	7	17.434	6.506	8.657	4.425	157.26
50 4 1.00 0	187	121	180 9192 e							
7 9275a	14	26	30.0000	70	19	0.000	9.000	10.600	19.300	45.00
12 2 12.56 0	187	121	180 9275 w							
4 n 9272a	14	27	54.6264	21	22	33.427	9.713	9.968	4.724	236.50
5 2 45.00 0	187	121	180 9272 e							
3 o 9312a	14	33	36.4539	35	35	8.030	8.162	9.030	3.019	37.55
50 4 1.00 0	187	121	180 9312 s							
7 HIP 71440 pl	14	36	36.7296	56	41	29.789	8.070	8.070	0.000	297.00
46 1 2.36 0	187	121	180 g139 s							
7 9327plkijaeva	14	37	30.1320	47	43	04.120	10.800	11.000	4.700	15.00
7 1 30.00 0	187	121	180 9327 s							
6 n 9339a	14	40	17.1809	48	42	31.254	7.982	11.559	7.300	101.80
30 4 4.92 0	187	121	180 9339 e							
4 o 9341a	14	40	30.4011	46	32	33.166	8.905	10.513	1.980	252.70
18 4 11.51 0	187	121	180 9341 s							

4 n 9338a	14	40	43.7423	16	25	4.946	4.851	5.911	5.546	109.79
56 4 0.28 0	187	121	180 9338 e							
4 9346a	14	41	1.0517	57	57	32.051	7.589	8.462	7.571	47.67
50 4 1.00 0	187	121	180 9346 s							
4 n 9350a	14	41	35.5159	51	23	51.615	8.061	8.164	1.891	308.00
50 4 1.00 0	187	121	180 9350 e							
4 9357a	14	42	2.9589	61	15	44.677	6.369	9.536	4.180	316.80
49 4 1.11 0	187	121	180 9357 s							
0 o 9372	14	44	59.2509	27	4	27.026	2.652	4.846	2.867	341.00
59 4 0.04 0	187	121	180 9372 s							
5 o 9389a	14	48	23.4093	24	22	0.253	6.632	7.586	2.099	55.20
50 4 1.00 0	187	121	180 9389 s							
4 9406a	14	49	41.4613	48	43	15.002	6.362	6.722	2.776	45.34
50 4 1.00 0	187	121	180 9406 s							
7 n 9413a	14	51	23.1405	19	6	5.169	4.806	7.079	7.070	324.81
57 4 0.26 0	187	121	180 9413 e							
3 HIP 72886 pl	14	53	48.5887	21	53	45.775	9.550	9.550	0.000	297.00
20 1 9.23 0	187	121	180 g140 s							
5 HIP 72916 pl	14	54	7.2389	52	18	7.499	11.540	11.540	0.000	297.00
5 1 45.00 0	187	121	180 g141 s							
3 o 9435a	14	54	30.0540	34	5	14.187	8.753	10.388	3.550	245.10
19 4 10.01 0	187	121	180 9435 s							
7 9444a	14	56	15.4480	29	28	27.532	8.400	10.000	21.400	214.00
20 4 10.00 0	187	121	180 9444 a							
5 o 9450a	14	56	29.6272	59	22	47.682	8.312	10.149	2.800	216.00
25 4 6.67 0	187	121	180 9450 s							
4 9460a	14	56	47.8494	70	49	58.272	9.142	9.247	2.991	160.90
15 4 14.32 0	187	121	180 9460 s							
5 9509	14	57	26.4236	85	29	24.799	9.300	9.400	3.600	283.00
5 2 45.00 0	187	121	180 9509 n							
4 wdsa15016+4513	15	1	36.0000	45	13	0.000	10.000	10.300	2.900	187.00
5 2 45.00 0	187	121	180 1501 w							
7 9494a	15	3	47.7452	47	39	15.012	5.308	6.091	1.703	48.80
55 4 0.42 0	187	121	180 9494 s							
5 HIP 73704 pl	15	3	53.9365	16	59	31.774	10.700	10.700	0.000	297.00
8 1 26.62 0	187	121	180 g142 s							
7 HIP 73934 pl	15	6	32.0774	38	59	10.746	8.540	8.540	0.000	297.00
37 1 3.64 0	187	121	180 g143 s							
3 HIP 74034 pl	15	7	47.1264	85	44	59.649	11.140	11.140	0.000	297.00
5 1 39.91 0	187	121	180 g144 s							
7 HIP 74068 pl	15	8	12.9271	18	53	35.516	8.360	8.360	0.000	297.00
41 1 3.08 0	187	121	180 g145 s							
5 HIP 74730 pl	15	16	21.5659	37	4	10.119	7.100	7.100	0.000	297.00
63 1 0.97 0	187	121	180 g146 s							
5 n 9562a	15	16	25.4589	16	47	41.908	7.818	11.447	5.430	292.50
32 4 4.23 0	187	121	180 9562 e							
0 9573 opt	15	17	22.6136	43	47	41.318	9.529	9.686	9.144	15.36
5 2 45.00 0	187	121	180 9573 o							
5 o 9578a	15	18	20.1936	26	50	24.704	7.425	7.476	1.531	255.70
50 4 1.00 0	187	121	180 9578 s							
3 o 9639a	15	26	26.5564	44	0	13.161	7.893	9.209	2.028	279.70
31 4 4.53 0	187	121	180 9639 s							
7 HIP 75676 pl	15	27	40.3936	42	52	55.142	7.480	7.480	0.000	297.00
57 1 1.37 0	187	121	180 g147 s							
6 9696	15	29	18.1656	80	26	57.032	6.658	7.426	31.000	81.00
50 4 1.00 0	187	121	180 9696 s							
3 9679a	15	30	6.0000	46	18	0.000	11.000	11.000	4.800	82.00
5 2 45.00 0	187	121	180 9679 w							
4 o 9712a	15	32	30.1446	76	46	24.478	8.263	10.153	1.530	266.00
26 4 6.37 0	187	121	180 9712 s							
5 9701a	15	34	48.2025	10	32	17.895	4.222	5.257	4.012	174.80
58 4 0.15 0	187	121	180 9701 s							

0	NilalipObjpl	15	36	0.0000	39	50	00.000	19.000	19.000	0.000	000.00
6	1 45.00 0	187	121	180	nlip	w					
4	9727a	15	37	53.5539	30	6	11.616	8.604	8.931	5.158	296.95
50	4 1.00 0	187	121	180	9727	s					
3	n 9766a	15	44	21.6426	15	18	2.022	8.299	10.682	6.230	326.20
25	4 6.59 0	187	121	180	9766	e					
6	HIP 77514 pl	15	49	36.6196	51	2	54.672	12.840	12.840	0.000	297.00
5	1 45.00 0	187	121	180	g148	s					
3	o 9816a	15	51	10.0861	52	54	25.195	6.925	9.169	6.390	278.20
50	4 1.00 0	187	121	180	9816	s					
3	n 9847a	15	55	22.0384	53	2	10.202	11.000	11.100	4.900	329.00
5	2 45.00 0	187	121	180	9847	e					
=	clbr2 258	15	57	8.0403	47	23	57.492	9.716	9.773	84.394	211.71
5	1 30.00 0	187	121	180	l258	s					
0	15572+7629 opt?	15	57	14.5264	76	28	44.267	10.000	10.600	21.100	277.00
5	2 45.00 0	187	121	180	1557	a					
3	HIP 78439 pl	16	0	49.3554	13	33	35.590	8.590	8.590	0.000	297.00
36	1 3.81 0	187	121	180	g149	s					
4	9885a	16	1	4.3620	28	6	42.417	9.000	10.000	11.900	227.00
17	4 12.56 0	187	121	180	9885	a					
3	HIP 78709 pl	16	4	4.0285	25	15	11.340	7.100	7.100	0.000	297.00
63	1 0.97 0	187	121	180	g150	s					
3	HIP 78916 pl	16	6	31.3664	22	53	0.200	8.730	8.730	0.000	297.00
34	1 4.34 0	187	121	180	g151	s					
3	HIP 78993 pl	16	7	25.7434	13	20	11.016	7.320	7.320	0.000	297.00
59	1 1.18 0	187	121	180	g152	s					
0	n 9958	16	11	39.3732	33	20	33.479	6.483	10.570	5.620	262.90
48	4 1.24 0	187	121	180	9958	e					
3	n 9972a	16	12	35.4283	57	47	43.607	8.807	11.519	5.730	56.40
19	4 10.52 0	187	121	180	9972	e					
5	9979a	16	14	40.8175	33	51	29.782	5.712	6.742	6.832	234.49
50	4 1.00 0	187	121	180	9979	s					
3	HIP 79671 pl	16	15	36.6425	14	40	34.426	9.020	9.020	0.000	297.00
28	1 5.66 0	187	121	180	g153	s					
4	o10044a	16	24	10.4799	37	2	11.729	8.512	8.867	8.282	340.99
50	4 1.00 0	187	121	180	0044	s					
4	HIP 80439 pl	16	25	10.8559	40	43	54.313	11.310	11.310	0.000	297.00
5	1 45.00 0	187	121	180	g154	s					
5	n10075a	16	28	52.9278	18	24	46.668	7.783	7.973	1.789	128.10
50	4 1.00 0	187	121	180	0075	e					
2	HIP 80781 pl	16	29	39.8176	62	5	13.320	10.740	10.740	0.000	297.00
8	1 27.61 0	187	121	180	g155	s					
5	wds 16304+7930	16	30	24.0000	79	30	0.000	11.100	11.200	3.300	93.00
5	2 45.00 0	187	121	180	1630	w					
3	o10120a	16	33	55.0088	47	16	17.577	9.043	9.086	5.019	251.66
50	4 1.00 0	187	121	180	0120	s					
3	o10124a	16	35	24.8857	36	54	44.225	8.660	11.041	3.320	148.30
21	4 9.18 0	187	121	180	0124	s					
2	HIP 81238 pl	16	35	31.6105	57	50	23.248	11.830	11.830	0.000	297.00
5	1 45.00 0	187	121	180	g156	s					
2	10129a	16	36	13.9026	52	55	27.241	5.400	6.527	3.208	105.90
54	4 0.46 0	187	121	180	0129	s					
0	n10127	16	36	22.2957	33	49	18.407	7.200	10.800	28.800	75.00
20	2 2.39 0	187	121	180	0127	e					
0	nwds 16366+3224	16	36	37.4184	32	23	26.238	11.400	11.800	4.400	146.00
5	2 45.00 0	187	121	180	1636	e					
4	n10171a	16	42	34.6408	23	40	2.696	8.934	8.993	5.320	287.84
50	4 1.00 0	187	121	180	0171	e					
2	o10193a	16	44	47.2195	35	44	16.745	9.427	9.709	1.957	80.50
5	2 45.00 0	187	121	180	0193	s					
2	HIP 82059 pl	16	45	43.8771	19	38	33.055	8.160	8.160	0.000	297.00
44	1 2.56 0	187	121	180	g157	s					

4	n10203a	16	45	48.2728	35	37	51.863	7.574	9.762	4.130	49.20
35	4	3.38	0	187	121	180	0203	e			
2	wdsa16541+4354	16	54	3.4803	43	54	49.372	10.200	10.400	4.000	259.00
5	2	45.00	0	187	121	180	1654	n			
2	10288a	16	57	53.5185	47	21	58.886	7.956	11.330	4.910	61.00
30	1	4.80	0	187	121	180	0288	s			
3	n10282	16	58	11.9980	25	20	17.747	8.529	11.789	5.940	251.80
22	4	8.14	0	187	121	180	0282	e			
2	HIP 83056 pl	16	58	16.9962	21	40	21.652	9.900	9.900	0.000	297.00
15	1	12.74	0	187	121	180	g158	s			
5	10329a	17	3	19.6308	59	35	9.523	8.752	10.512	12.160	44.47
20	4	10.00	0	187	121	180	0329	s			
2	n10338a	17	5	6.0107	46	58	2.629	8.406	11.377	10.590	81.80
24	4	7.27	0	187	121	180	0338	e			
2	10345a	17	5	20.2448	54	28	12.440	5.728	5.813	2.160	30.30
50	4	1.00	0	187	121	180	0345	s			
2	owdsa17075+3557	17	7	42.2483	35	56	49.109	10.634	13.253	14.660	205.80
5	2	45.00	0	187	121	180	1707	s			
6	10386a	17	10	11.3475	54	29	33.074	9.068	9.466	22.189	133.60
16	4	13.37	0	187	121	180	0386	s			
0	10394 opt?	17	12	6.0019	21	13	40.317	7.636	9.225	8.276	190.86
34	4	3.58	0	187	121	180	0394	s			
2	10418a	17	14	39.0237	14	23	24.302	3.033	5.372	4.840	104.60
59	4	0.05	0	187	121	180	0418	s			
0	10424 opt	17	15	1.9242	24	50	22.515	3.136	8.100	11.200	280.00
59	4	0.06	0	187	121	180	0424	a			
2	10526a	17	23	40.8598	37	8	46.844	4.535	5.472	4.066	318.29
57	4	0.21	0	187	121	180	0526	s			
4	o10552a	17	25	29.4422	51	29	35.314	9.179	11.122	4.110	58.70
15	4	14.81	0	187	121	180	0552	s			
2	10553a	17	26	14.0841	29	27	22.812	7.778	9.796	9.790	60.11
33	4	4.08	0	187	121	180	0553	s			
2	HIP 85503 pl	17	28	24.3247	15	51	50.441	9.390	9.390	0.000	297.00
22	1	7.96	0	187	121	180	g159	s			
2	n10655	17	35	59.7021	20	59	51.408	6.166	9.729	10.360	21.90
50	4	0.92	0	187	121	180	0655	e			
2	HIP 86184 pl	17	36	40.0312	69	34	16.532	6.330	6.330	0.000	297.00
71	1	0.48	0	187	121	180	g160	s			
2	n10675a	17	37	48.7815	22	57	19.236	10.013	10.298	4.260	185.50
5	2	45.00	0	187	121	180	0675	e			
2	o10699a	17	38	38.2612	55	45	34.712	8.051	8.733	1.936	59.60
50	4	1.00	0	187	121	180	0699	s			
2	o10728a	17	40	18.0873	63	40	30.038	7.142	8.500	1.602	319.10
50	4	1.00	0	187	121	180	0728	s			
2	HIP 86642 pl	17	42	13.3345	38	4	13.477	7.290	7.290	0.000	297.00
60	1	1.15	0	187	121	180	g161	s			
0	n10863	17	51	22.2657	59	38	24.592	9.500	10.000	9.600	54.00
5	2	45.00	0	187	121	180	0863	e			
5	n10904a	17	56	8.8323	21	29	39.302	8.415	10.999	4.050	171.40
24	4	7.33	0	187	121	180	0904	e			
2	10937a	17	56	23.3286	58	13	6.692	10.669	10.000	16.700	214.00
5	2	45.00	0	187	121	180	0937	n			
2	o10934	17	57	5.0847	45	51	20.496	6.942	9.266	1.650	281.20
43	4	1.89	0	187	121	180	0934	s			
2	o10941	17	57	24.0568	51	11	18.015	9.540	12.376	7.650	131.40
5	2	45.00	0	187	121	180	0941	s			
5	11061a	18	0	6.2161	80	0	7.773	5.858	6.168	18.950	231.60
50	4	1.00	0	187	121	180	1061	s			
4	10988a	18	0	18.5618	52	51	15.332	8.225	9.203	3.258	267.50
26	4	6.15	0	187	121	180	0988	s			
2	HIP 88188 pl	18	0	36.1093	68	33	23.425	9.690	9.690	0.000	297.00
18	1	10.50	0	187	121	180	g162	s			

6	nwdsa18048+2353	18	4	44.6033	23	53	15.777	8.558	10.914	17.970	291.20
22	4	8.36	0	187	121	180	1804	e			
2	o11058	18	4	56.9271	48	8	9.757	7.673	10.505	3.140	78.70
34	4	3.70	0	187	121	180	1058	s			
5	n11156	18	5	19.7526	81	29	8.148	7.900	8.900	16.000	194.00
50	4	1.00	0	187	121	180	1156	e			
2	nwdsa18133+4944	18	13	17.9342	49	43	54.801	9.665	10.297	14.290	71.50
5	2	45.00	0	187	121	180	1813	e			
3	n11208a	18	15	24.9505	19	46	15.603	8.399	9.270	5.242	328.84
24	4	7.22	0	187	121	180	1208	e			
0	n11229	18	16	13.4199	44	22	49.960	8.781	11.863	11.230	344.60
13	2	10.27	0	187	121	180	1229	e			
=	clbr2	183									
5	1	30.00	0	187	121	180	1183	s			
2	o11336a	18	23	54.6489	58	48	2.107	5.077	8.074	3.780	349.90
56	4	0.34	0	187	121	180	1336	s			
2	HIP 90632 pl	18	29	34.9019	29	58	4.694	9.110	9.110	0.000	297.00
27	1	6.15	0	187	121	180	g163	s			
0	n11480	18	35	30.8751	21	4	22.872	9.070	10.676	11.290	221.47
16	4	13.40	0	187	121	180	1480	e			
2	HIP 91350 pl	18	37	55.5616	20	9	42.954	9.050	9.050	0.000	297.00
28	1	5.82	0	187	121	180	g164	s			
2	HIP 91426 pl	18	38	42.5071	17	23	15.544	9.520	9.520	0.000	297.00
20	1	8.98	0	187	121	180	g165	s			
3	o11570a	18	39	56.2612	51	5	34.679	9.031	11.687	8.230	36.80
16	4	12.93	0	187	121	180	1570	s			
3	n11560	18	40	5.1640	24	42	7.272	8.157	10.388	9.990	174.70
27	4	5.78	0	187	121	180	1560	e			
7	11632a	18	42	48.3636	59	37	27.078	8.922	9.996	13.340	170.40
42	4	2.00	0	187	121	180	1632	s			
5	11635a	18	44	20.3237	39	40	13.175	5.056	6.191	2.536	352.87
56	4	0.33	0	187	121	180	1635	s			
5	HIP 92258 pl	18	48	5.0751	72	58	31.504	9.070	9.070	0.000	297.00
27	1	5.93	0	187	121	180	g166	s			
2	n11797	18	52	59.4458	36	21	30.982	9.700	9.800	9.700	6.00
5	2	45.00	0	187	121	180	1797	e			
5	n11899a	18	58	3.4948	47	11	29.854	8.605	8.797	1.677	200.30
50	4	1.00	0	187	121	180	1899	e			
2	HIP 93320 pl	19	0	27.2068	45	41	34.008	11.220	11.220	0.000	297.00
5	1	42.97	0	187	121	180	g167	s			
5	n11977a	19	2	41.0269	31	23	58.330	7.903	10.090	6.030	266.60
31	4	4.57	0	187	121	180	1977	e			
2	11971a	19	2	45.2804	-0	42	40.594	8.425	8.877	26.759	92.34
7	2	30.00	0	187	121	180	1971	s			
2	o11997	19	2	58.0582	51	35	21.664	9.393	9.522	2.027	79.80
5	2	45.00	0	187	121	180	1997	s			
2	HIP 93619 pl	19	3	53.9322	22	52	48.447	10.560	10.560	0.000	297.00
9	1	23.40	0	187	121	180	g168	s			
3	n12028	19	5	6.3944	40	7	33.515	8.590	10.970	13.630	87.40
22	4	8.61	0	187	121	180	2028	e			
0	12031a	19	5	21.9403	38	3	20.473	9.300	9.400	6.700	29.00
5	2	45.00	0	187	121	180	2031	a			
0	19058+3831 opt	19	5	45.6613	38	31	5.046	8.600	8.800	18.500	347.00
50	4	1.00	0	187	121	180	1905	a			
7	o12050a	19	6	53.0006	22	10	21.492	7.472	9.620	8.070	30.87
37	4	3.07	0	187	121	180	2050	s			
0	12090 opt?	19	8	33.3956	37	54	47.151	8.424	10.789	21.830	338.90
15	2	7.39	0	187	121	180	2090	s			
3	o12145	19	11	8.2057	38	46	53.528	8.982	9.365	4.800	27.24
17	4	12.35	0	187	121	180	2145	s			
2	HIP 94257 pl	19	11	10.3031	65	14	42.833	10.670	10.670	0.000	297.00
8	1	25.89	0	187	121	180	g169	s			

2	12169a		19	12	5.0314	49	51	11.873	6.664	6.810	7.648	207.76
50	4	1.00	0	187	121	180	2169	s				
2	HIP 94371	pl	19	12	27.4565	16	51	2.153	7.940	7.940	0.000	297.00
49	1	2.09	0	187	121	180	g170	s				
2	12302pl	a	19	17	50.0000	54	21	35.000	8.276	11.000	2.500	268.00
6	2	45.00	0	187	121	180	2302	w				
2	n12447a		19	26	33.6357	27	19	21.212	8.211	8.479	1.974	291.60
50	4	1.00	0	187	121	180	2447	e				
0	o12638		19	35	7.4506	34	11	59.509	7.583	10.413	2.930	233.50
35	4	3.41	0	187	121	180	2638	s				
0	12730	opt	19	37	0.4737	63	49	48.141	8.500	10.200	9.100	151.00
23	4	7.93	0	187	121	180	2730	a				
0	12727	opt	19	38	20.8201	25	41	57.985	9.200	9.300	4.400	210.00
14	4	15.10	0	187	121	180	2727	o				
6	12889a		19	45	33.5417	33	36	9.795	8.469	8.628	2.459	169.20
50	4	1.00	0	187	121	180	2889	s				
2	owdsa19458+3223		19	45	49.4749	32	23	11.943	10.749	13.010	12.760	338.90
5	2	45.00	0	187	121	180	a945	s				
2	wdsa19464+3201		19	46	23.7479	32	1	3.140	10.199	11.160	4.870	133.70
5	2	45.00	0	187	121	180	1946	s				
6	12913a		19	46	25.5839	33	43	43.277	5.055	8.100	26.200	69.00
56	4	0.33	0	187	121	180	2913	a				
2	HIP 97321	pl	19	46	41.2037	44	20	54.692	7.070	7.070	0.000	297.00
63	1	0.94	0	187	121	180	g171	s				
2	12922a		19	46	43.4389	31	44	1.381	10.700	11.500	8.900	295.00
5	2	45.00	0	187	121	180	2922	a				
3	n12974		19	47	23.0582	64	41	34.977	8.948	11.626	6.940	168.50
17	4	11.97	0	187	121	180	2974	e				
5	o13007		19	48	10.2136	70	16	4.207	4.064	7.063	3.170	17.10
58	4	0.13	0	187	121	180	3007	s				
0	nwds 19486+1844		19	48	33.4919	18	43	48.034	9.400	11.300	5.000	310.00
5	2	45.00	0	187	121	180	1948	e				
5	o13148a		19	55	37.8223	52	26	20.484	5.048	7.610	3.010	176.60
56	4	0.33	0	187	121	180	3148	s				
3	nwds 19570+8319		19	57	2.9161	83	18	28.307	10.000	10.400	6.700	48.00
5	2	45.00	0	187	121	180	1957	e				
3	n13214		19	59	32.8305	24	43	16.751	8.404	11.202	14.540	186.80
24	4	7.25	0	187	121	180	3214	e				
2	HIP 98411	pl	19	59	42.5757	33	59	27.994	11.440	11.440	0.000	297.00
5	1	45.00	0	187	121	180	g172	s				
2	HIP 98646	pl	20	2	12.8009	17	30	54.900	8.080	8.080	0.000	297.00
46	1	2.38	0	187	121	180	g173	s				
2	HIP 98829	pl	20	4	10.5830	42	30	43.628	9.680	9.680	0.000	297.00
18	1	10.40	0	187	121	180	g174	s				
4	n13371a		20	4	44.6285	63	53	27.114	6.316	9.872	5.590	15.60
49	4	1.06	0	187	121	180	3371	e				
2	n13392a		20	5	34.9853	63	42	16.755	9.419	9.502	1.901	186.10
5	2	45.00	0	187	121	180	3392	e				
2	wdsa20081+6227		20	8	6.0000	62	27	0.000	10.100	10.200	5.300	303.00
5	2	45.00	0	187	121	180	2008	w				
3	n13434		20	9	34.3391	16	48	21.377	7.821	9.917	4.450	14.10
32	4	4.24	0	187	121	180	3434	e				
2	HIP 99389	pl	20	10	24.2217	51	29	44.376	12.480	12.480	0.000	297.00
5	1	45.00	0	187	121	180	g175	s				
0	nwds 20127+1806		20	12	38.0933	18	4	20.183	9.400	11.500	25.000	50.00
5	2	45.00	0	187	121	180	2012	e				
4	o13543a		20	13	40.5224	24	14	20.152	6.741	9.666	2.840	273.40
45	4	1.57	0	187	121	180	3543	s				
5	n13560a		20	13	40.9786	53	7	27.976	7.246	9.674	5.360	108.70
40	4	2.50	0	187	121	180	3560	e				
0	13610	opt	20	15	13.6165	54	8	47.972	7.443	11.000	39.700	72.00
20	2	2.99	0	187	121	180	3610	a				

0	nwds	20170+1655	20	16	51.6004	16	55	57.213	10.600	11.700	4.900	6.00
5	2	45.00 0	187	121	180	2017	e					
3	o13692a		20	18	24.7581	55	23	49.814	6.027	7.515	3.648	337.50
50	4	1.00 0	187	121	180	3692	s					
5	o13790a		20	23	10.4294	35	41	35.022	8.213	11.027	9.230	203.20
27	4	6.08 0	187	121	180	3790	s					
2	13821a		20	24	21.6000	40	2	52.000	11.700	12.000	7.100	6.00
5	2	45.00 0	187	121	180	3821	w					
3	n13825		20	24	33.3774	32	12	28.848	9.100	10.100	5.400	343.00
15	4	13.77 0	187	121	180	3825	e					
2	HIP100802	pl	20	26	20.3531	10	50	17.781	11.080	11.080	0.000	297.00
6	1	37.77 0	187	121	180	g176	s					
2	HIP101234	pl	20	31	12.5308	56	53	25.454	7.950	7.950	0.000	297.00
48	1	2.11 0	187	121	180	g177	s					
7	13996a		20	33	2.8386	28	51	34.715	8.500	8.600	35.000	0.00
50	4	1.00 0	187	121	180	3996	s					
2	14032pl	a	20	34	58.0408	27	53	56.140	10.500	10.700	4.100	197.00
5	2	45.00 0	187	121	180	4032	a					
2	14035pl	a	20	35	1.3804	34	20	19.229	9.400	10.400	18.029	229.29
5	2	45.00 0	187	121	180	4035	a					
4	o14094a		20	37	39.9577	53	50	37.102	8.906	11.605	4.230	210.50
18	4	11.52 0	187	121	180	4094	s					
0	14194	opt	20	42	29.7949	49	15	59.141	8.400	8.600	12.200	176.00
50	4	1.00 0	187	121	180	4194	o					
2	HIP102357	pl	20	44	21.9537	19	45	4.120	10.290	10.290	0.000	297.00
11	1	18.24 0	187	121	180	g178	s					
6	n14270a		20	46	13.2876	15	54	28.707	7.665	8.472	5.975	9.75
50	4	1.00 0	187	121	180	4270	e					
2	HIP102732	pl	20	49	0.8437	31	50	55.816	12.940	12.940	0.000	297.00
5	1	45.00 0	187	121	180	g179	s					
2	nwdsa20493+2026		20	49	17.3703	20	25	54.345	9.400	9.900	5.900	190.00
5	2	45.00 0	187	121	180	2049	e					
0	14382aopt		20	51	58.9952	43	45	26.422	8.732	8.862	9.084	120.58
50	4	1.00 0	187	121	180	4382	o					
3	o14544		21	0	17.3703	61	29	50.525	7.849	10.770	14.340	74.80
32	4	4.35 0	187	121	180	4544	s					
2	14535a		21	0	42.0000	28	44	00.000	10.200	10.400	6.500	355.00
5	2	45.00 0	187	121	180	4535	w					
3	o14575		21	2	8.9964	56	40	10.601	6.284	6.911	1.631	354.30
50	4	1.00 0	187	121	180	4575	s					
3	o14569a		21	2	21.9630	37	39	15.870	8.546	8.687	4.662	265.20
50	4	1.00 0	187	121	180	4569	s					
3	o14634a		21	5	32.4108	62	9	31.894	8.346	9.497	7.010	296.00
25	4	6.88 0	187	121	180	4634	s					
2	14636a		21	6	57.3800	38	45	13.635	5.200	6.208	30.639	149.25
25	2	1.00 0	187	121	180	4636	s					
2	wdsa21089+4815		21	8	52.5885	48	14	48.443	8.700	9.300	22.200	59.00
13	2	9.53 0	187	121	180	2108	a					
2	HIP104538	pl	21	10	31.3144	10	2	55.967	6.070	6.070	0.000	297.00
74	1	0.37 0	187	121	180	g180	s					
0	nwds	21109+2856	21	10	54.5920	28	56	10.459	11.500	11.600	6.200	22.00
5	2	45.00 0	187	121	180	2110	e					
3	n14733a		21	11	30.9942	41	14	28.372	8.803	8.996	2.734	124.29
50	4	1.00 0	187	121	180	4733	e					
3	14921a		21	17	33.3591	82	31	3.059	8.685	8.870	1.909	311.00
50	4	1.00 0	187	121	180	4921	s					
5	o14916		21	18	30.7038	80	21	11.545	7.925	8.730	2.064	271.37
50	4	1.00 0	187	121	180	4916	s					
2	14872pl	a	21	19	57.1000	39	57	1.000	10.500	11.000	7.000	67.00
5	2	45.00 0	187	121	180	4872	w					
5	n14889a		21	20	50.0482	32	27	9.456	7.209	7.513	2.315	23.00
50	4	1.00 0	187	121	180	4889	e					

3	14903a		21	21	6.0000	53	23	00.000	8.912	10.600	5.100	355.00	
18	4	11.58	0	187	121	180	4903	w					
2	HIP105496	pl		21	22	0.4093	31	6	2.823	10.670	10.670	0.000	297.00
8	1	25.89	0	187	121	180	g181	s					
3	o14941			21	23	29.3603	50	31	25.356	8.283	11.157	2.250	260.50
26	4	6.49	0	187	121	180	4941	s					
5	HIP105906	pl		21	26	57.8826	81	44	31.613	8.060	8.060	0.000	297.00
46	1	2.34	0	187	121	180	g182	s					
2	n15019			21	28	37.8431	61	36	53.862	9.700	10.400	4.900	35.00
5	2	45.00	0	187	121	180	5019	e					
=	clbr2	404		21	29	30.2879	65	56	14.241	9.080	9.710	159.316	124.78
5	1	30.00	0	187	121	180	l404	s					
7	15228			21	31	9.1431	86	52	19.219	8.500	8.700	14.500	157.00
50	4	1.00	0	187	121	180	5228	a					
5	o15084a			21	32	49.6144	58	39	29.614	8.486	9.714	7.623	290.15
23	4	7.82	0	187	121	180	5084	s					
5	n15076a			21	32	58.3202	20	42	43.314	7.700	8.077	3.261	353.50
50	4	1.00	0	187	121	180	5076	e					
2	15129pl	a		21	36	16.7005	29	17	32.318	10.100	10.200	3.100	309.00
5	2	45.00	0	187	121	180	5129	a					
2	owds	21366+3928		21	36	38.7284	39	27	21.935	10.462	12.172	1.780	283.60
5	2	45.00	0	187	121	180	2136	s					
7	15229			21	36	58.6725	82	55	16.530	8.500	9.000	3.100	273.00
50	4	1.00	0	187	121	180	5229	a					
0	n15183			21	39	34.2707	23	21	35.196	9.600	10.100	8.000	151.00
5	2	45.00	0	187	121	180	5183	e					
2	o15205a			21	39	44.4385	58	14	44.038	9.219	11.975	8.130	36.70
5	2	45.00	0	187	121	180	5205	s					
0	o15270a			21	44	8.4045	28	44	35.600	4.856	6.308	2.002	302.00
56	4	0.28	0	187	121	180	5270	s					
2	HIP107466	pl		21	46	1.8221	59	31	34.840	9.410	9.410	0.000	297.00
22	1	8.11	0	187	121	180	g183	s					
2	wds21490+4316pl			21	48	57.4000	43	15	37.000	10.200	10.400	5.800	235.00
8	2	30.00	0	187	121	180	2149	w					
3	o15460a			21	55	31.5884	52	31	40.692	8.307	9.023	1.594	36.20
50	4	1.00	0	187	121	180	5460	s					
0	wa21559+3141opt			21	55	55.9823	31	41	17.000	10.700	10.800	4.000	238.00
5	2	45.00	0	187	121	180	2155	w					
0	15470pl	opt	a	21	56	26.5307	31	56	42.756	9.300	11.000	9.100	347.00
7	2	30.00	0	187	121	180	5470	n					
7	15571			21	58	16.9532	82	52	13.484	7.035	7.598	13.830	67.13
50	4	1.00	0	187	121	180	5571	s					
3	o15542a			21	59	47.0198	67	58	26.409	8.140	10.419	3.190	187.90
28	4	5.69	0	187	121	180	5542	s					
5	15600a			22	3	46.5530	64	37	40.331	4.501	6.585	7.871	276.07
57	4	0.20	0	187	121	180	5600	s					
7	wds	22044+7013		22	4	21.0292	70	12	46.600	8.500	9.000	27.700	198.00
50	4	1.00	0	187	121	180	2204	a					
0	15620a	opt?		22	5	44.0826	29	54	23.048	7.773	9.607	11.820	266.57
33	4	4.06	0	187	121	180	5620	s					
2	HIP109158	pl		22	6	39.9269	48	27	6.893	10.120	10.120	0.000	297.00
13	1	15.60	0	187	121	180	g184	s					
2	15732			22	11	50.8540	63	41	54.133	9.500	10.300	6.800	324.00
5	2	45.00	0	187	121	180	5732	n					
2	HIP109676	pl		22	13	3.0084	34	25	21.867	10.990	10.990	0.000	297.00
6	1	34.76	0	187	121	180	g185	s					
0	n15887			22	22	42.8829	45	46	38.840	9.400	11.000	6.900	255.00
5	2	45.00	0	187	121	180	5887	e					
2	owdsa22234+3228			22	23	28.9238	32	27	35.770	11.471	11.569	1.770	199.00
5	2	45.00	0	187	121	180	2223	s					
3	o15915			22	24	45.6465	22	33	4.659	9.036	11.388	1.610	228.00
16	4	12.98	0	187	121	180	5915	s					

2	HIP110660	pl	22	25	3.2834	15	18	6.585	11.850	11.850	0.000	297.00
5	1	45.00	0	187	121	180	g186	s				
4	15930a		22	25	38.7224	48	7	43.501	9.000	9.100	4.400	267.00
50	4	1.00	0	187	121	180	5930	a				
2	n15972a		22	28	0.5841	57	41	48.219	9.795	11.406	3.400	128.30
5	2	45.00	0	187	121	180	5972	e				
3	n15966		22	28	13.1387	23	32	0.089	9.138	9.778	5.508	334.00
15	4	14.26	0	187	121	180	5966	e				
0	nwds	22284+5825	22	28	25.9741	58	25	20.296	8.800	9.600	25.100	4.00
13	2	10.45	0	187	121	180	2228	e				
4	owdsa	22300+2556	22	30	1.7842	25	56	27.449	8.517	11.135	5.610	76.70
22	4	8.05	0	187	121	180	2230	s				
0	n16067		22	34	15.8290	35	58	1.760	10.100	11.300	7.700	205.00
5	2	45.00	0	187	121	180	6067	e				
2	HIP111541	pl	22	35	49.6849	20	16	28.416	6.610	6.610	0.000	297.00
69	1	0.62	0	187	121	180	g187	s				
2	HIP111759	pl	22	38	21.8343	10	36	57.459	7.920	7.920	0.000	297.00
49	1	2.06	0	187	121	180	g188	s				
2	HIP112040	pl	22	41	34.8423	18	49	27.010	10.820	10.820	0.000	297.00
7	1	29.73	0	187	121	180	g189	s				
2	HIP112222	pl	22	43	42.6892	10	56	23.230	6.510	6.510	0.000	297.00
70	1	0.56	0	187	121	180	g190	s				
4	16291a		22	49	1.0227	68	34	13.449	6.982	7.107	4.474	56.99
50	4	1.00	0	187	121	180	6291	s				
3	o16293a		22	49	41.4298	40	30	55.153	8.222	8.345	5.330	259.94
50	4	1.00	0	187	121	180	6293	s				
2	16304a		22	50	37.1192	53	7	10.606	9.400	10.200	4.100	177.00
5	2	45.00	0	187	121	180	6304	n				
2	16332a		22	52	42.0000	57	16	0.000	10.700	10.700	6.500	312.00
5	2	45.00	0	187	121	180	6332	w				
2	16335a		22	52	48.0000	59	27	00.000	9.600	10.200	3.600	271.00
5	2	45.00	0	187	121	180	6335	w				
3	o16371		22	54	14.8590	76	20	17.160	7.960	8.636	1.968	0.80
50	4	1.00	0	187	121	180	6371	s				
2	HIP113336	pl	22	57	8.8282	24	15	49.980	8.750	8.750	0.000	297.00
33	1	4.42	0	187	121	180	g191	s				
2	51	peg	22	57	27.9805	20	46	07.796	5.490	5.490	0.000	297.00
56	1	0.33	0	187	121	180	sp51	s				
3	o16423		22	58	28.2534	67	5	16.770	9.141	9.500	1.545	257.60
15	4	14.30	0	187	121	180	6423	s				
2	HIP113884	pl	23	3	50.5887	21	35	54.256	7.220	7.220	0.000	297.00
61	1	1.08	0	187	121	180	g192	s				
2	16480a		23	4	30.0000	31	23	00.000	6.818	9.400	19.200	307.00
21	2	1.68	0	187	121	180	6480	w				
0	wdsa	23058+4224	23	5	48.0000	42	24	00.000	11.751	12.395	0.860	153.00
5	2	45.00	0	187	121	180	2305	w				
3	o16527a		23	7	47.8618	39	47	46.695	7.952	9.894	2.850	227.10
30	4	4.78	0	187	121	180	6527	s				
0	k16558	\E7\A5\E0 \A4\EB\E0	23	9	58.8593	36	51	44.200	7.610	7.610		
0.000	297.00	52	1	1.81	0	187	121	180	6558	s		
4	o16562a		23	10	21.0776	49	1	5.506	7.502	10.410	4.130	151.90
36	4	3.16	0	187	121	180	6562	s				
2	HIP114430	pl	23	10	27.3636	43	32	41.052	5.910	5.910	0.000	297.00
75	1	0.32	0	187	121	180	g193	s				
5	n16602a		23	13	17.6808	22	5	1.776	9.049	9.003	0.000	0.00
50	4	1.00	0	187	121	180	6602	e				
0	o16666a		23	18	37.4069	68	6	41.105	5.033	7.280	3.278	218.28
56	4	0.33	0	187	121	180	6666	s				
0	16693	opt	23	21	13.3460	35	26	36.418	9.190	9.960	6.900	153.86
15	4	14.96	0	187	121	180	6693	o				
5	o16705a		23	22	12.1570	56	4	44.074	8.673	11.424	6.700	46.70
20	4	9.29	0	187	121	180	6705	s				

4	n16713a		23	22	48.6840	20	33	32.248	6.806	10.020	5.830	91.00	
45	4	1.66	0	187	121	180	6713	e					
2	HIP115873	pl		23	28	33.3154	51	3	48.256	9.090	9.090	0.000	297.00
27	1	6.04	0	187	121	180	g194	s					
2	HIP116168	pl		23	32	16.2634	26	33	6.455	8.270	8.270	0.000	297.00
42	1	2.84	0	187	121	180	g195	s					
2	HIP116229	pl		23	32	56.8101	60	39	43.687	10.940	10.940	0.000	297.00
6	1	33.20	0	187	121	180	g196	s					
0	23336+6028	opt		23	33	28.1394	60	26	23.032	7.286	7.460	40.000	209.00
50	4	1.00	0	187	121	180	2333	s					
2	n16852a			23	35	34.0870	28	15	41.262	11.300	11.500	3.200	7.00
5	2	45.00	0	187	121	180	6852	e					
3	o16864a			23	36	37.2688	53	57	11.126	8.717	11.593	3.690	356.30
20	4	9.68	0	187	121	180	6864	s					
6	n16894a			23	38	33.9404	35	1	52.741	7.104	10.061	15.240	200.10
41	4	2.19	0	187	121	180	6894	e					
6	HIP116728	pl		23	39	21.1672	74	0	9.414	5.980	5.980	0.000	297.00
74	1	0.34	0	187	121	180	g197	s					
2	HIP116761	pl		23	39	50.4144	34	57	19.800	7.110	7.110	0.000	297.00
62	1	0.98	0	187	121	180	g198	s					
0	23467+6236	opt		23	46	44.9361	62	35	44.268	9.400	9.800	19.900	101.00
5	2	45.00	0	187	121	180	2346	a					
2	owdsa23470+5157			23	46	58.3352	51	57	21.590	10.543	12.442	9.480	252.70
5	2	45.00	0	187	121	180	2347	s					
2	17009a			23	47	51.5231	17	4	21.244	9.272	9.034	63.000	352.00
6	1	16.14	0	187	121	180	7009	s					
2	HIP117393	pl		23	48	11.8290	27	42	56.747	7.850	7.850	0.000	297.00
50	1	1.93	0	187	121	180	g199	s					
5	wds 23483+8532			23	48	20.4068	85	32	11.840	9.000	10.000	5.000	8.00
17	4	12.56	0	187	121	180	2348	n					
3	n17054a			23	51	52.6879	37	53	29.241	7.738	7.864	5.566	86.64
50	4	1.00	0	187	121	180	7054	e					
3	17081a			23	53	5.6668	61	57	5.625	9.200	9.300	6.600	341.00
14	4	15.10	0	187	121	180	7081	a					
3	owds 23581+5050			23	58	4.3837	50	50	12.460	9.159	11.213	12.660	314.73
15	4	14.54	0	187	121	180	2358	s					
2	17138			23	58	54.0000	63	17	0.000	10.700	11.200	3.200	197.00
5	2	45.00	0	187	121	180	7138	w					
7	17149a			23	59	29.2869	33	43	27.593	6.574	6.788	1.847	320.70
50	4	1.00	0	187	121	180	7149	s					
2	o17147a			23	59	29.6283	44	36	5.717	10.238	12.666	2.440	114.00
5	2	45.00	0	187	121	180	7147	s					