

DEPARTMENT OF PHYSICS
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K7L 3N6

15 August 1974

Dear Paul,

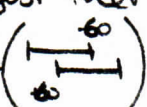
Enclosed are miscellaneous data for "Q.A.?" September run.

1. Catalogue of 868 single stars within 25 parsecs of Sun. Selected from Woolley et al catalogue, deleting known spectroscopic binaries and regular variables. Star names with asterisks beside them refer to notes in the Woolley et al list. I enclose copy of these notes, but not of the entire original list which is 100s of pages. Notes are very miscellaneous, some very important some trivial. The computer catalogue also lists $1950\alpha, \delta$, parallax, proper motion, spectral type and luminosity class, and radial velocities, all from Woolley et al catalogue. Some stars were unclassified in spectral type. These are given $O\phi$ designation in the computer. Luminosity classes are: ϕ - unknown, 2 - supergiant, 2 - bright giant, 3 - giant, 4 - subgiant, 5 - dwarf, 9 - white dwarf (look out for these!). Radial velocities are: VHEL - heliocentric, directly from Woolley et al catalogue, 999.0 km/s if unknown; VLSR - with respect to LSR, derived from VHEL by me using standard solar motion of 19.5 km/s towards $\alpha = 270^\circ.2$, $\delta = 29^\circ.9$ ($l^\text{II} = 56^\circ$, $b^\text{II} = 23^\circ$), 999.0 km/s if unknown.

2. Catalogue of 156 single stars within 40 L.Y. of Sun, giving observing parameters. This list (2 copies enclosed) should provide the basic "Q.A." program (i.e. not calibration lines, nor M82!). Given are: star # with * denoting note in the Woolley catalogue; distance

from Sun in L.Y.; spectral type and luminosity class; observing position including precession, aberration, nutation and proper motion to 23 September 1974 (1974.726); velocity of star relative to LSR in km/s ($999.0 = \text{unknown}$).

3. Precensed, aberrated and nutated positions for six strong H_2O lines, also to 23 Sept 74, in 2 copies.

I suggest that where $V_{LSR} = 999$ we observe at ± 60 km/s for $1/2$ time each  so that we get the central ± 60 km/s around zero velocity covered at "normal" sensitivity and the outer $\pm (120 - 60)$ km/s range covered at "half" sensitivity.

I go to NRAO on 17 Aug, return ~ Sept 9.

Cheers,

Aheb.

DECLINATIONS -20 TO 90
 DISTANCES FROM 0 TO 45 LY
 SPECTRAL TYPES 00 TO M9
 LUM CODES FROM 0 TO 6

→ PAF Jan '76

STAR#	RA(1950)	DEC(1950)	DIST(L.Y.)	SPECTRUM	VLSP(KM/S)
2*	00 02 32.00	45 30 36.0	34.7	M2 5	7.0
12*	00 13 12.00	13 16 24.0	37.0	M5 0	999.0
26	00 36 13.00	30 20 30.0	40.0	M4 5	11.4
27	00 36 45.00	20 58 54.0	32.6	K6 5	-33.2
33	00 45 45.00	05 01 24.0	22.6	K2 0	-15.0
47*	00 53 13.00	61 05 30.0	40.0	M2 5	18.5
48*	00 53 48.00	71 25 00.0	28.6	M4 5	13.9
49*	00 53 27.00	62 04 20.0	25.0	K5 5	1.5
51*	01 00 08.00	62 05 40.0	29.4	M5 5	999.0
53*	01 04 58.00	54 40 36.0	25.7	G5 6	-92.0
60	01 05 07.00	56 58 54.0	37.5	M4 0	999.0
67	01 08 44.00	42 21 48.0	27.0	G2 5	5.4
69	01 09 47.00	29 01 36.0	24.0	K1 5	-37.0
69	01 40 12.00	63 24 48.0	43.5	K5 5	-42.0
70	01 40 46.00	04 04 54.0	28.6	M2 5	-9.4
71	01 41 46.00	-16 12 00.0	11.0	G8 5	-20.4
75	01 44 06.00	63 36 24.0	28.6	K0 5	7.2
78	01 49 19.00	-11 02 36.0	37.0	M4 0	-5.7
82*	01 55 55.00	08 16 54.0	39.0	M5 0	999.0
9066*	01 57 28.00	12 50 06.0	15.0	M5 5	999.0
84	02 02 37.00	-17 51 06.0	28.6	M0 5	-40.2
87	02 09 51.00	03 22 00.0	32.6	M3 5	-1.4
96*	02 18 57.00	47 39 06.0	34.0	M2 5	-33.9
102	02 30 44.00	24 43 00.0	34.5	M5 0	999.0
109*	02 41 18.00	25 19 00.0	26.1	M4 5	41.3
111	02 42 46.00	-10 47 00.0	44.7	F6 5	18.3
112	02 43 20.00	25 26 30.0	44.1	K1 4	6.2
113*	02 45 12.00	26 51 42.0	41.0	K1 5	1.6
117*	02 50 07.00	-12 53 18.0	25.7	K0 5	9.9
124	03 05 27.00	49 25 24.0	37.9	G4 5	49.5
125*	03 06 09.00	45 02 54.0	43.5	M3 5	1.4
133	03 13 56.00	79 46 54.0	35.0	M2 0	999.0
137*	03 16 44.00	03 11 18.0	30.5	G5 5	7.1
144*	03 30 34.00	-09 37 36.0	10.0	K2 5	3.8
150*	03 40 51.00	-09 55 54.0	25.4	K0 4	-18.4
154*	03 43 18.00	26 03 48.0	37.5	K7 5	25.3
156	03 52 09.00	-06 58 48.0	42.9	M0 5	45.3
162	04 05 23.00	03 30 12.0	44.7	M1 0	999.0
169*	04 26 02.00	21 48 42.0	41.0	M1 5	-44.4
176*	04 26 59.00	39 45 00.0	22.9	M7 0	999.0
172*	04 32 43.00	52 46 00.0	38.1	K8 5	34.0
173	04 35 21.00	-11 08 06.0	34.7	M1 5	-26.6
174*	04 38 22.00	28 48 36.0	39.0	K3 5	-3.3
176*	04 39 58.00	18 52 54.0	38.6	M3 5	17.1
177	04 45 21.00	-17 01 00.0	42.2	G1 5	4.4
178	04 47 07.00	06 52 30.0	24.7	F6 5	9.5
179*	04 49 24.00	06 22 48.0	41.0	M5 0	999.0
180	04 51 35.00	-17 59 42.0	39.3	M3 0	999.0
181*	04 55 00.00	49 46 30.0	40.0	M2 5	-35.6
190	05 06 21.00	-16 12 54.0	35.0	M5 0	999.0
203*	05 25 16.00	09 36 54.0	28.0	M5 0	999.0
205*	05 28 55.00	-03 41 06.0	19.2	M1 5	-5.2
208	05 33 44.00	11 17 54.0	39.0	M0 5	8.7
211*	05 37 17.00	53 27 48.0	35.0	K1 5	-1.0
212*	05 37 27.00	53 28 18.0	37.0	M2 5	-1.7
213	05 39 14.00	12 29 18.0	19.6	M4 0	80.7

STAR#	RA(1950)	DEC(1950)	DIST(L.Y.)	SPECTRUM	VLSR(KM/S)	
214	05 39 38.00	-15 32 06.0	40.0	G5	0	48.4
215*	05 41 06.00	-02 13 42.0	41.0	M0	5	-15.7
221	05 50 34.00	-06 00 00.0	44.1	K5	0	8.0
222*	05 51 25.00	20 16 06.0	32.0	G0	0	-26.0
225*	05 59 41.00	02 07 54.0	31.7	M2	0	-13.7
232	06 21 40.00	23 29 24.0	27.9	M6	0	999.0
239	06 34 19.00	17 35 12.0	31.3	M1	0	-66.0
241	06 38 12.00	24 00 36.0	37.9	K6	0	-56.1
247	06 45 27.00	00 03 48.0	38.0	M0	0	-48.1
249	06 47 49.00	47 26 12.0	43.9	K6	0	22.8
251	06 51 35.00	33 20 18.0	19.4	M4	0	27.6
254*	06 53 52.00	30 49 36.0	44.7	K6	0	-20.1
257*	07 24 42.00	05 22 42.0	12.1	M4	0	11.2
261	07 30 48.00	02 18 12.0	42.3	M0	0	-5.2
263*	07 42 04.00	03 40 48.0	18.5	M4	0	3.4
264	07 42 16.00	20 08 54.0	34.0	K0	0	-5.6
269	07 45 15.00	00 00 36.0	44.1	M2	0	999.0
270	08 00 11.00	00 00 36.0	21.6	M5	0	-47.6
272	08 16 02.00	-10 27 42.0	41.0	G3	0	18.1
273	08 31 55.00	07 23 06.0	41.0	M1	0	18.9
274	08 34 42.00	18 35 00.0	33.5	M0	0	999.0
275	08 47 04.00	06 12 06.0	40.0	M0	0	-17.2
276	08 51 50.00	-05 14 36.0	38.4	G3	0	16.0
277	08 57 19.00	00 02 24.0	37.0	K3	0	17.0
278	09 00 01.00	-10 57 48.0	40.0	K0	0	5.7
279	09 00 11.00	02 18 36.0	35.4	M6	0	999.0
280	09 00 22.00	10 15 54.0	41.0	M3	0	7.0
281	09 00 33.00	13 26 24.0	42.0	M2	0	11.7
282	09 00 39.00	10 16 18.0	38.0	M4	0	999.0
283	09 40 46.00	-12 04 36.0	40.2	M2	0	54.0
284	09 50 41.00	-00 06 54.0	42.9	M0	0	999.0
285	09 50 29.00	00 02 00.0	39.0	M1	0	15.2
286	10 00 19.00	49 42 36.0	14.7	K7	0	-23.7
287	10 00 31.00	-00 25 42.0	30.4	M0	0	999.0
288	10 00 46.00	-00 39 42.0	31.0	M2	0	4.9
289	10 14 20.00	-11 42 12.0	29.0	K0	0	999.0
290	10 16 54.00	00 07 18.0	18.0	M4	0	6.0
291	10 26 22.00	01 06 24.0	25.1	G2	0	5.0
292*	10 27 14.00	06 15 24.0	35.1	K7	0	7.4
293	10 27 26.00	06 14 18.0	40.2	F6	0	10.6
294	10 30 00.00	05 22 48.0	44.7	M4	0	15.7
295	10 37 12.00	-06 39 42.0	31.7	M0	0	999.0
401	10 43 19.00	-10 50 30.0	34.7	M0	0	999.0
403	10 49 30.00	14 15 42.0	38.4	M4	0	999.0
406*	10 54 05.00	07 19 00.0	7.0	M6	0	0.4
407	10 56 46.00	40 41 54.0	44.1	G0	0	15.4
408	10 57 25.00	00 06 18.0	21.6	M3	0	30.6
410	10 59 57.00	02 14 12.0	37.0	M3	0	-20.4
411*	11 00 37.00	00 18 18.0	8.2	M2	0	-04.0
424*	11 17 29.00	00 07 00.0	27.4	M1	0	34.5
425*	11 38 25.00	04 09 00.0	39.6	G0	0	-1.0
426	11 39 31.00	20 59 42.0	20.0	M3	0	10.0
443	11 44 00.00	-10 43 36.0	30.0	M0	0	999.0
445	11 44 24.00	10 57 42.0	16.7	M4	0	-109.7
447*	11 45 00.00	01 00 00.0	16.0	G5	0	-14.0
448	11 46 31.00	14 51 06.0	42.0	F3	0	1.4

STAR#	RA(1950)	DEC(1950)	DIST(L.Y.)	SPECTRUM	VLSR(KM/S)
449	11 48 05.00	02 02 48.0	32.6	F8	4.1
450*	11 48 03.00	05 02 48.0	34.0	M1	8.9
451*	11 50 06.00	08 04 36.0	29.6	G8	-92.9
452	11 50 43.00	-07 05 18.0	39.3	M4	999.0
455	11 51 03.00	10 05 42.0	34.3	M0	999.0
454	11 58 18.00	-10 09 42.0	40.0	G7	1.9
455	12 02 13.00	-17 06 00.0	29.6	M4	62.5
458*	12 05 57.00	-18 01 06.0	40.3	M0	7.5
459*	12 06 28.00	09 42 18.0	41.0	M5	999.0
475	12 01 22.00	41 07 42.0	29.9	G0	15.3
481	12 08 36.00	15 09 24.0	27.5	K8	28.8
486	12 45 29.00	10 01 54.0	29.4	M4	9.9
487*	12 47 04.00	66 23 00.0	28.1	M3	-7.7
488*	12 48 18.00	-08 29 24.0	35.6	M0	6.4
484*	12 50 19.00	12 08 42.0	44.7	M2	-3.9
495	12 59 27.00	-01 48 48.0	41.3	K0	168.6
502	13 09 32.00	23 07 54.0	27.2	G5	15.1
504	13 14 18.00	09 41 06.0	48.3	G0	-19.0
505	13 15 47.00	-18 02 00.0	27.4	G6	-8.0
514	13 27 27.00	10 09 00.0	24.9	M1	24.1
521	13 37 28.00	46 26 06.0	32.6	M2	-28.2
9456	13 37 30.00	-03 26 24.0	42.3	K6	41.6
522	13 38 23.00	00 07 42.0	42.9	M1	53.7
525*	13 42 39.00	18 03 42.0	33.6	M1	37.0
526*	13 43 12.00	19 09 42.0	15.9	M4	24.8
532	13 50 01.00	59 11 54.0	42.9	M0	-29.0
536	13 58 01.00	-02 25 18.0	35.4	M0	999.0
541*	14 13 23.00	14 26 30.0	35.4	K1	6.8
543*	14 16 36.00	-07 03 48.0	43.5	M4	999.0
545	14 17 29.00	-09 22 48.0	35.4	M5	999.0
546*	14 19 48.00	29 51 42.0	44.7	K8	-25.0
552	14 27 11.00	15 44 12.0	44.7	M3	31.4
554	14 28 28.00	-12 04 12.0	39.3	M4	999.0
555	14 31 35.00	-12 18 36.0	28.4	M4	999.0
556*	14 52 08.00	16 18 18.0	34.0	M0	18.8
579	15 05 16.00	25 07 12.0	43.5	K7	-58.2
581*	15 16 58.00	-07 32 24.0	21.9	M5	-16.1
585	15 21 35.00	17 39 36.0	35.8	M6	999.0
592	15 34 10.00	-13 57 48.0	36.2	M5	999.0
595	15 39 20.00	-19 18 36.0	29.4	M5	999.0
598	15 44 01.00	07 30 30.0	34.7	G0	-51.3
600	15 54 08.00	15 49 24.0	40.2	F6	23.2
609	16 09 43.00	30 44 42.0	32.9	M4	999.0
620	16 22 29.00	48 28 24.0	23.6	M3	-11.1
621*	16 33 44.00	-02 13 12.0	36.2	K8	0.7
638	16 48 15.00	33 05 42.0	31.3	K7	-11.6
649	16 56 07.00	25 49 36.0	38.4	M2	25.2
653*	17 02 27.00	-04 59 00.0	37.9	K5	45.6
654*	17 02 37.00	-05 06 42.0	32.3	M4	48.4
655	17 05 01.00	21 37 12.0	32.8	M3	999.0
671	17 18 16.00	41 46 30.0	39.8	M4	999.0
673	17 18 47.00	32 31 48.0	44.7	G1	-53.2
673	17 23 16.00	02 10 12.0	24.7	K7	-11.3
682*	17 27 55.00	05 35 24.0	31.3	M1	6.4
685*	17 35 39.00	18 36 24.0	25.9	M1	9.8
687*	17 36 42.00	58 23 06.0	15.2	M4	-6.5

STAR#	RA(1950)	DEC(1950)	DIST(L.Y.)	SPECTRUM	WLSRCKM(S)
588	17 26 48.00	03 35 00.0	40.3		
594	17 42 25.00	43 24 24.0	31.7	K0	5
596	17 47 53.00	-06 02 06.0	42.2	M3	5
599*	17 55 33.00	04 33 18.0	57.9	M2	5
701	18 02 26.00	-03 01 54.0	23.6	M5	5
706	18 07 58.00	03 27 12.0	35.1	M2	5
713*	18 21 58.00	72 42 42.0	29.3	K2	5
716	18 28 23.00	-12 56 36.0	41.0	M7	5
721	18 35 15.00	23 44 12.0	26.9	K0	5
727	18 44 58.00	-03 41 56.0	43.5	M0	5
731*	18 49 38.00	16 31 48.0	41.3	M2	5
735*	18 52 03.00	03 28 18.0	25.4	M2	5
740	18 55 04.00	05 51 24.0	38.4	M2	5
748	19 09 38.00	02 46 58.0	33.0	M4	5
762	19 32 09.00	04 28 06.0	41.8	M1	5
764	19 33 26.00	03 34 56.0	18.5	K0	5
768*	19 43 21.00	03 44 36.0	16.6	M7	4
777*	20 01 23.00	29 43 54.0	37.5	M3	5
793*	20 09 56.00	52 16 36.0	25.7	M3	5
802*	20 41 52.00	55 03 48.0	44.7	M5	5
806	20 43 18.00	44 18 42.0	36.4	M3	5
807*	20 44 18.00	01 38 56.0	44.7	K0	4
813	20 55 09.00	22 19 24.0	41.8	M3	5
816	20 59 28.00	-06 08 36.0	39.8	M2	5
821	21 06 38.00	-12 28 42.0	35.1	M3	5
829*	21 27 13.00	17 05 06.0	21.2	M4	5
831*	21 28 04.00	-10 08 36.0	24.3	M4	5
843	21 59 12.00	-19 43 30.0	41.8	M0	5
846	21 59 39.00	01 09 42.0	31.8	M8	5
849	22 07 06.00	-04 53 12.0	29.4	M3	5
866*	22 35 45.00	-15 35 30.0	18.7	M6	5
873*	22 44 40.00	44 04 36.0	16.7	M3	5
876	22 50 35.00	-14 31 12.0	18.6	M5	5
882	22 55 00.00	20 20 00.0	44.7	G4	5
892*	23 18 52.00	56 53 30.0	26.2	K3	5
8914	23 11 51.00	-06 49 06.0	42.9	M0	5
895*	23 22 14.00	57 35 00.0	38.4	M2	5
898*	23 30 12.00	-17 07 36.0	37.5	M7	5
899	23 31 38.00	-08 05 06.0	40.6	M4	5
903*	23 39 27.00	43 55 12.0	18.3	M6	5
907	23 45 38.00	48 44 06.0	42.0	M1	5
908*	23 46 36.00	02 08 12.0	18.7	M2	5

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STAR#	RA(1950) HH.MMSS	DEC(1950) DD.MMSS	PAR. ARCSEC	PM(RA) SECTIME	PM(DEC) ARCSEC	SP	LUM CLASS	VHEL KM/S	WLSR KM/S
2*	0.0232	45.3036	0.094	0.0030	-0.150	M 2	5	0.2	7.0
5*	0.0401	28.4442	0.069	0.0286	-0.180	K 0	5	-8.2	-3.7
6	0.0606	36.2100	0.047	-0.0087	-0.145	F 5	5	-13.8	-8.4
10	0.0843	-15.4430	0.066	-0.0057	-0.263	F 6	5	14.8	16.9
12*	0.1312	13.1624	0.088	0.0420	0.320	M 5	0	999.0	999.0
9006	0.1347	15.3842	0.045	0.0150	0.160	O 0	0	999.0	999.0
14*	0.1426	40.4012	0.063	0.0490	0.090	M 0	5	2.2	7.8
9008	0.1525	-13.4400	0.043	0.0273	0.021	G 2	5	28.2	29.5
16	0.1542	9.5530	0.055	0.0000	-0.020	M 0	5	999.0	999.0
9009	0.1607	-8.1942	0.052	0.0275	-0.134	G 5	4	-10.7	-10.4
9012*	0.2018	-12.2912	0.049	0.0265	0.066	G 2	5	-6.8	-6.1
21	0.2400	69.5206	0.060	-0.0310	-0.140	M 0	5	999.0	999.0
9014	0.3022	41.4330	0.058	0.0290	0.190	M 0	5	3.0	7.8
9016	0.3143	47.3824	0.043	0.0407	0.058	F 8	0	999.0	999.0
26	0.3613	30.2030	0.080	0.1190	0.070	M 4	5	8.7	11.4
27	0.3645	26.5854	0.100	-0.0333	-0.369	K 0	5	-34.2	-33.2
28*	0.3804	39.5518	0.072	0.0299	-0.669	K 2	5	-63.2	-59.1
30	0.4052	33.3436	0.058	-0.0170	-0.370	K 5	5	-32.9	-30.0
31*	0.4105	-18.1536	0.058	0.0162	0.040	K 0	3	13.1	13.0
9025	0.4207	-19.1324	0.057	0.0240	0.160	M 0	5	27.0	27.3
9027	0.4231	1.3112	0.043	-0.0029	-0.562	K 2	5	6.4	3.6
9030	0.4525	-9.3718	0.040	-0.0129	0.223	F 5	0	999.0	999.0
33	0.4545	5.0124	0.144	0.0503	-1.142	K 2	5	-12.6	-15.0
✓Aug 35	35*	0.4631	5.0912	0.239	0.0830	F 3	3	54.0	51.6
37	0.4737	-10.5448	0.064	-0.0157	-0.222	F 8	5	7.7	6.2
38	0.4823	58.0130	0.064	0.1920	0.410	M 2	5	-19.4	-13.0
39	0.4843	18.2818	0.070	0.0038	-0.275	K 6	5	7.9	7.7
41*	0.5004	60.5100	0.064	-0.0097	0.177	F 8	4	20.7	27.4
9032	0.5219	23.4954	0.049	-0.0145	-0.197	G 5	0	-13.4	-12.9
9033	0.5340	58.5442	0.041	-0.0119	-0.043	G 8	0	-47.0	-40.7
44	0.5448	-2.0500	0.070	-0.0180	-0.220	K 1	0	-45.5	-49.1
9034	0.5736	17.5548	0.050	0.0016	-0.073	G 5	0	-44.0	-45.0
47*	0.5813	61.0630	0.080	0.0560	-0.770	M 2	5	12.0	18.5
48*	0.5848	71.2500	0.114	0.3600	-0.390	M 4	5	6.0	13.9
9035	0.5904	81.5000	0.040	-0.0849	-0.056	G 2	5	-50.7	-41.7
49*	0.5927	62.0430	0.109	0.1060	0.090	K 5	5	-5.1	1.5
50	0.5927	-10.0854	0.042	-0.0140	-0.480	K 5	0	999.0	999.0
51*	1.0000	62.0540	0.111	0.1150	0.140	M 5	5	999.0	999.0
52	1.0344	63.4012	0.072	0.2280	0.280	K 7	5	-3.4	3.3
53*	1.0456	54.4036	0.127	0.3939	-1.575	G 5	6	-97.2	-92.0
9041	1.0457	33.5606	0.050	0.1130	0.570	M 4	0	999.0	999.0
9042	1.0601	16.5900	0.045	-0.0360	-0.610	K 4	5	-36.0	-37.7
9044*	1.0655	35.2124	0.045	0.0145	-0.113	M 0	0	0.3	2.0
9048	1.1354	25.0412	0.044	0.0290	-0.110	M 0	5	-30.0	-30.7
56	1.1505	-15.4536	0.068	0.0190	-0.470	K 3	0	999.0	999.0
9050	1.1547	-13.0806	0.050	0.0120	-0.690	M 0	0	999.0	999.0
9053	1.1643	79.5330	0.041	0.1090	-0.090	M 0	5	-19.7	-11.1
9054	1.1750	76.2700	0.042	-0.0035	-0.031	K 0	5	-22.7	-14.6
9056	1.2210	18.1436	0.044	0.0389	-0.169	K 4	5	8.5	6.0
9057	1.3135	34.2524	0.040	0.0012	0.000	F 8	0	999.0	999.0
61	1.3351	41.0924	0.062	-0.0155	-0.378	F 8	5	-28.1	-26.7
63	1.3507	56.5854	0.087	-0.0290	-0.450	M 4	0	999.0	999.0
64	1.3526	-5.1442	0.066	0.0380	-0.350	A 0	9	999.0	999.0
9059*	1.3752	66.3942	0.041	0.1166	-0.241	G 5	5	16.0	22.2
67	1.3844	42.2148	0.087	0.0730	-0.149	G 2	5	4.0	5.4

STAR#	RA(1950) HH.MMSS	DEC(1950) DD.MMSS	PAR. ARCSEC	PM(RA) SECTIME	PN(DEC) ARCSEC	SP	LUM CLASS	VHEL KM/S	VLSR KM/S
68	1.3947	20.0136	0.134	-0.0210	-0.671	K 1	5	-33.7	-37.0
69	1.4012	63.3448	0.075	-0.0610	-0.580	K 5	5	-48.3	-42.8
70	1.4046	4.0454	0.114	-0.0280	-0.740	M 2	5	-3.0	-9.4
71	1.4145	-16.1200	0.277	-0.1193	0.860	G 8	5	-16.2	-20.4
72	1.4212	19.5000	0.056	-0.0030	-0.108	G 4	5	-43.5	-47.0
73	1.4219	16.0612	0.063	-0.0470	-0.390	M 4	0	999.0	999.0
74	1.4358	12.0948	0.048	0.0020	-0.080	K 0	5	20.0	14.9
75	1.4406	63.3624	0.114	0.0876	-0.246	K 0	5	1.8	7.2
78	1.4919	-11.0236	0.088	0.0380	-0.570	M 4	0	0.0	-5.7
9063*	1.5443	-10.2900	0.050	-0.0255	-0.226	G 5	0	-6.8	-13.0
82*	1.5555	58.1654	0.082	0.0410	-0.200	M 5	0	999.0	999.0
9066*	1.5728	12.5006	0.213	0.0740	-1.800	M 5	5	999.0	999.0
9068	2.0009	5.2824	0.041	0.1560	-0.670	K 4	0	999.0	999.0
84	2.0237	-17.5106	0.114	0.0900	-0.160	M 0	5	-35.0	-40.2
9072*	2.0421	23.1336	0.044	0.0139	-0.146	K 2	3	-14.3	-18.4
9074	2.0707	35.1200	0.046	-0.0220	-0.690	M 3	0	999.0	999.0
87	2.0951	3.2200	0.100	-0.1180	-1.890	M 3	5	7.0	-1.4
88	2.1027	-17.5524	0.048	0.0330	0.210	M 0	0	999.0	999.0
90	2.1135	67.2636	0.045	0.0934	-0.304	K 2	5	-13.7	-8.2
9077	2.1452	56.2000	0.047	0.0409	-0.232	K 1	5	3.2	6.1
9078	2.1500	44.0224	0.046	0.0470	-0.120	M 4	0	999.0	999.0
94	2.1600	35.0736	0.056	0.0570	-0.440	M 4	0	999.0	999.0
96*	2.1857	47.3906	0.095	0.0220	0.040	M 2	5	-34.6	-33.9
9081	2.2243	28.3200	0.040	0.0223	-0.087	K 0	5	-31.9	-35.9
9082	2.2323	5.3312	0.044	0.0249	0.128	G 5	0	999.0	999.0
101	2.2745	57.0924	0.068	0.1470	-0.040	M 5	0	999.0	999.0
9083	2.2855	2.0248	0.040	0.0015	-0.003	K 3	3	26.4	16.6
102	2.3044	24.4000	0.133	0.0030	-0.680	M 6	0	999.0	999.0
9085	2.3249	-3.4610	0.041	-0.0100	-0.427	G 5	4	-52.6	-62.3
104	2.3304	20.0010	0.056	0.0180	-0.130	M 2	5	999.0	999.0
9087	2.3409	-3.2224	0.044	0.0222	0.050	K 0	0	999.0	999.0
9089	2.3501	30.3624	0.040	-0.0374	-0.381	G 1	5	-100.3	-104.4
9093	2.3807	0.5854	0.048	0.0190	0.240	M 0	5	78.7	68.2
9096	2.3934	48.4510	0.040	0.0000	-0.400	K 0	5	-97.0	-96.8
9097*	2.3954	3.0954	0.040	-0.0110	-0.120	K 5	0	999.0	999.0
106*	2.4000	19.1306	0.055	0.0300	-0.014	K 4	5	32.9	25.9
109*	2.4118	25.1900	0.125	0.0610	-0.370	M 4	5	47.0	41.0
111	2.4246	-18.4700	0.073	0.0233	-0.045	F 6	5	25.6	18.3
112	2.4320	25.2630	0.074	0.0170	-0.152	K 1	4	12.0	6.2
9100	2.4334	11.3406	0.055	0.0170	-0.220	K 0	5	10.7	1.0
113*	2.4512	26.5142	0.079	0.0206	-0.109	K 1	5	7.1	1.6
9101	2.4540	-11.5800	0.040	-0.0040	-0.210	M 0	5	999.0	999.0
9102	2.4542	30.5436	0.047	0.0170	-0.174	G 9	0	10.0	5.4
114	2.4749	15.3036	0.059	0.0236	-0.397	K 6	5	-25.0	-33.2
116	2.4858	34.1154	0.066	0.0700	-0.980	M 0	5	-45.7	-49.6
117*	2.5007	-12.5810	0.127	0.0270	-0.170	K 0	5	18.8	9.9
9106	2.5327	13.4248	0.040	-0.0050	-0.090	K 0	0	999.0	999.0
120	2.5443	10.3548	0.056	0.1270	-0.360	M 4	5	49.0	39.4
9108	3.0012	-18.1906	0.064	0.0310	0.140	M 0	0	999.0	999.0
9109	3.0109	-5.5130	0.046	0.0230	-0.250	G 5	5	-19.9	-30.8
122	3.0315	75.5148	0.051	0.0510	-0.540	M 0	5	34.0	40.5
123	3.0350	1.4706	0.063	0.0250	-0.900	M 0	5	-21.9	-38.7
124	3.0527	49.2524	0.086	0.1298	-0.081	G 4	5	50.0	49.5
125*	3.0609	45.3254	0.075	-0.0420	-0.340	M 3	5	3.0	1.4
9111	3.1057	52.1000	0.042	-0.0290	-0.400	M 0	5	-55.0	-55.0

STAR#	RA(1950) HH.MMSS	DEC(1950) DD.MMSS	PAR. ARCSEC	PM(RA) SECTIME	PM(DEC) ARCSEC	SP	LUM CLASS	VHEL KM/S	VLSR KM/S
9112	3.1204	8.4806	0.042	0.0274	-0.404	K 1	5	-21.5	-32.4
133	3.1356	79.4654	0.091	0.1490	0.290	M 2	0	999.0	999.0
134*	3.1452	38.0442	0.067	0.0410	-0.620	M 2	5	9.0	5.0
135	3.1630	-3.0124	0.065	0.0168	-0.105	G 2	5	20.6	8.4
137*	3.1644	3.1118	0.107	0.0178	0.096	G 5	5	19.3	7.1
141	3.2232	-5.3142	0.065	-0.0163	-0.773	K 5	5	-11.8	-23.8
142*	3.2536	-19.5854	0.071	0.0366	0.336	K 7	5	31.3	22.2
9117	3.2657	-11.5042	0.055	0.0050	-0.270	M 0	5	999.0	999.0
144*	3.3034	-9.3736	0.302	-0.0659	0.022	K 2	5	15.4	3.8
147	3.3419	0.1442	0.061	-0.0156	-0.479	F 8	5	27.9	14.4
9120*	3.3640	25.1936	0.046	0.0210	-0.580	O 0	0	999.0	999.0
9121	3.3749	-3.2230	0.047	0.0468	-0.213	F 9	5	114.2	101.1
148	3.3834	3.2718	0.054	-0.0010	-0.230	M 0	5	0.9	-12.2
150*	3.4051	-9.5554	0.111	-0.0062	0.744	K 0	4	-6.4	-18.4
9123	3.4116	45.5248	0.049	0.0298	-0.103	K 0	0	17.8	15.1
9124*	3.4117	24.3836	0.044	0.0010	-0.050	F 0	0	999.0	999.0
9125*	3.4117	24.3736	0.046	0.0010	-0.050	G 0	0	999.0	999.0
9126*	3.4121	24.4306	0.051	0.0002	-0.001	K 2	0	999.0	999.0
9127*	3.4123	24.3636	0.046	0.0010	-0.050	G 3	0	999.0	999.0
151*	3.4142	18.1742	0.072	0.0370	-1.130	F 0	9	999.0	999.0
9128	3.4205	11.4542	0.045	0.0200	0.130	K 8	5	81.9	70.3
154*	3.4318	26.0348	0.087	0.0250	-0.240	K 7	5	33.6	25.3
9131*	3.4406	23.5030	0.046	0.0023	-0.042	A 9	5	4.7	-4.2
9132*	3.4508	23.5924	0.045	0.0014	-0.022	F 6	5	12.0	3.1
9133	3.4523	2.3830	0.050	-0.0240	-0.390	M 1	5	999.0	999.0
9135*	3.4804	23.4512	0.044	0.0000	0.000	K 6	5	38.3	29.3
9136	3.5044	61.0124	0.046	0.0623	-0.251	K 0	5	47.9	49.5
156	3.5209	-6.5848	0.076	-0.0010	0.530	M 0	5	58.3	45.3
9138*	3.5255	53.2918	0.054	0.0370	-0.390	M 0	5	-5.0	-5.7
9139	3.5449	76.0136	0.050	0.0971	-0.520	K 4	5	20.0	26.0
9140	3.5649	25.5706	0.053	0.0570	-0.090	M 5	5	94.0	85.2
9141*	3.5720	51.1524	0.040	0.0360	-0.640	O 0	0	999.0	999.0
158*	3.5953	35.0918	0.052	0.1423	-1.343	K 1	5	-30.0	-36.3
159	4.0003	-0.2412	0.035	0.0100	-0.247	F 6	5	17.5	0
9142	4.0157	0.0654	0.040	-0.0158	-0.333	G 8	0	999.0	999.0
160	4.0222	21.5230	0.069	0.0124	-0.135	G 1	5	25.6	15.6
161	4.0423	69.2448	0.056	0.0160	-0.288	K 2	5	-10.0	-6.9
9145*	4.0516	37.5436	0.046	0.0142	-0.200	F 7	5	24.8	19.1
162	4.0523	33.3012	0.073	0.0440	0.140	M 1	0	999.0	999.0
9147	4.0732	70.0636	0.040	-0.0192	0.033	M 0	5	999.0	999.0
164	4.0909	52.2948	0.066	-0.0450	-0.000	M 5	0	999.0	999.0
9148	4.1120	58.2400	0.051	0.0230	-0.230	K 3	0	24.4	24.0
9149	4.1153	2.5336	0.050	0.0054	0.275	K 4	0	56.7	42.2
168	4.1755	48.1306	0.049	-0.0030	0.030	K 8	5	-72.6	-75.5
9849	4.1915	19.2154	0.060	0.0001	0.003	O 0	0	999.0	999.0
9850	4.1918	19.2206	0.058	0.0109	-0.250	O 0	0	999.0	999.0
169*	4.2602	21.4842	0.078	-0.0040	0.200	M 1	5	-33.6	-44.4
170*	4.2659	39.4500	0.099	0.0000	-0.530	M 7	0	999.0	999.0
9157	4.2742	16.0512	0.052	0.0076	-0.028	A 7	5	37.5	25.3
9158	4.3111	5.1706	0.043	-0.0080	-0.260	K 1	0	999.0	999.0
171	4.3159	55.1854	0.058	0.0650	-0.280	K 2	5	50.4	49.5
172*	4.3343	52.4000	0.093	0.0320	-0.460	K 8	5	36.2	34.5
173	4.3521	-11.0806	0.094	-0.0150	-0.200	M 1	5	-13.0	-26.6
9161	4.3634	-12.1312	0.040	-0.0037	-0.009	A 0	0	8.5	-6.9
174*	4.3822	20.4836	0.082	-0.0164	-0.262	K 3	5	8.0	-3.3

STAR#	RA(1950) HH.MMSS	DEC(1950) DD.MMSS	PAR. ARCSEC	PM(RA) SECTIME	PM(DEC) ARCSEC	SP	LUM CLASS	VHEL KM/S	VLSR KM/S
176*	4.3958	18.5254	0.097	0.0500	-1.050	M 3	5	29.0	17.1
9166	4.4029	27.3554	0.045	0.0049	-0.241	K 3	0	20.6	11.0
177	4.4521	-17.0130	0.077	0.0093	0.174	G 1	5	16.8	4.4
178	4.4707	6.5230	0.132	0.0314	0.018	F 6	5	24.3	9.5
9168*	4.4803	45.4530	0.041	0.0368	-0.558	G 1	5	26.7	22.5
179*	4.4924	6.2348	0.078	0.0100	-0.340	M 5	0	999.0	999.0
180	4.5135	-17.5042	0.083	0.0310	-0.640	M 3	0	999.0	999.0
9169*	4.5317	4.3542	0.040	0.0095	-0.191	F 8	0	999.0	999.0
9170	4.5333	2.5136	0.042	0.0070	-0.300	K 0	0	999.0	999.0
181*	4.5500	49.4630	0.080	0.0110	-0.100	M 2	5	-32.6	-35.6
182*	4.5659	1.4236	0.068	-0.0030	-0.150	M 1	5	30.0	14.0
184	4.5917	50.0440	0.064	0.1400	-1.510	M 0	5	69.8	67.0
9175*	5.0523	-5.0900	0.044	-0.0062	-0.079	A 3	3	-9.0	-24.5
9176	5.0615	-4.3112	0.048	0.0029	0.019	F 5	5	9.4	+6.2
190	5.0621	-18.1254	0.091	0.0360	-1.400	M 5	0	999.0	999.0
9178	5.0931	-9.0954	0.044	-0.0040	-0.570	K 1	5	5.7	-9.0
192	5.0944	19.3618	0.070	0.0170	0.300	M 5	0	999.0	999.0
193	5.1204	-15.5248	0.062	0.0160	-0.210	G 6	5	32.0	19.4
196	5.1417	79.1042	0.053	-0.0271	0.158	F 6	5	-9.9	+3.5
197*	5.1537	40.0324	0.067	0.0460	-0.659	G 0	5	65.7	59.0
201*	5.2043	17.1642	0.057	0.0189	-0.004	K 5	5	37.4	24.4
202*	5.2130	17.2018	0.064	0.0174	-0.010	F 8	5	36.5	23.5
203*	5.2516	9.3654	0.115	-0.0130	-0.870	M 5	0	999.0	999.0
204	5.2557	-3.3142	0.072	-0.0216	-0.796	K 5	5	-58.2	-74.2
9182	5.2723	-3.2024	0.054	-0.0220	-0.480	M 5	0	999.0	999.0
205*	5.2855	-3.4106	0.170	0.0515	-2.098	M 1	5	10.9	-5.2
207	5.2953	29.2124	0.053	-0.0270	-0.170	K 7	0	999.0	999.0
9183*	5.3109	1.5440	0.067	-0.0250	-0.280	M 3	5	999.0	999.0
208	5.3344	11.1754	0.082	-0.0010	-0.050	M 0	5	20.3	0.7
209	5.3404	20.4224	0.055	-0.0052	-0.420	G 4	5	-12.7	-25.0
211*	5.3717	50.2740	0.091	0.0011	+0.521	K 1	5	0.9	-1.0
212*	5.3727	50.2810	0.117	0.0020	-0.490	M 2	5	0.5	-1.7
9188	5.3908	15.1910	0.044	0.0053	-0.031	M 0	5	999.0	999.0
213	5.3914	12.2940	0.166	0.1390	-1.530	M 4	5	103.0	88.7
214	5.3938	-15.3906	0.080	0.0152	-0.105	G 5	0	62.0	48.4
215*	5.4106	02.1342	0.079	0.0370	-0.790	M 0	5	-16.5	-15.7
217	5.4235	07.1624	0.069	0.0405	-0.510	K 1	5	-30.9	-33.4
9190	5.4441	-14.5024	0.046	-0.0011	-0.004	A 3	5	20.0	6.2
220	5.5010	24.1524	0.062	0.0130	-0.610	M 2	0	999.0	999.0
221	5.5034	16.0000	0.074	0.0000	-0.180	K 5	0	24.6	8.0
222*	5.5125	20.1600	0.101	-0.0131	-0.087	G 0	5	-13.5	-26.0
223	5.5152	2.0836	0.065	0.0020	-0.650	K 3	0	-30.0	-46.5
9192	5.5211	-9.2410	0.051	0.0090	0.430	M 0	5	999.0	999.0
9193*	5.5240	-4.0840	0.166	0.0380	-2.290	K 0	4	999.0	999.0
224	5.5312	13.5530	0.047	0.0267	-0.463	G 0	5	-2.1	-16.2
225	5.5403	-14.1030	0.065	-0.0028	0.138	F 0	4	-1.6	-15.6
226	5.5441	02.0734	0.103	0.0330	-1.300	M 2	5	-21.0	-13.7
9197	6.0047	26.0024	0.043	0.0400	-0.570	M 5	0	999.0	999.0
9198	6.0237	07.5906	0.052	-0.0040	-0.090	K 8	5	1.6	4.3
9199	6.0248	07.2048	0.046	-0.0103	-0.306	G 0	5	-11.0	-19.9
227*	6.0349	15.0300	0.065	-0.0076	-0.111	K 0	5	-11.7	-25.4
9203	6.0557	26.0400	0.042	-0.0530	-0.060	M 3	0	999.0	999.0
9205	6.1018	70.4812	0.043	0.0042	-0.444	G 7	5	25.0	23.6
230	6.1026	10.0042	0.057	0.0064	-0.286	G 6	5	3.0	-11.0
9207*	6.1338	12.1718	0.042	0.0056	0.188	F 5	4	8.7	-5.7

STAR#	RA(1950) HH.MMSS	DEC(1950) DD.MNSS	PAR. ARCSEC	PM(RA) SECTIME	PM(DEC) ARCSEC	SP	LUM CLASS	VHEL KM/S	VLSR KM/S
9210	6.1603	-13.5054	0.043	0.0070	0.320	M 0	5	106.1	92.0
9211	6.1655	-6.3742	0.069	-0.0050	-0.670	M 5	0	999.0	999.0
232	6.2140	23.2924	0.117	0.0410	-0.530	M 6	0	999.0	999.0
9213	6.3003	72.0312	0.044	-0.0080	-0.260	G 0	5	41.3	45.4
239	6.3419	17.3612	0.104	-0.0550	0.330	M 1	5	-53.0	-66.0
9214*	6.3430	-19.1242	0.056	0.0045	-0.076	K 1	3	2.5	-10.1
9215	6.3744	79.3724	0.047	-0.0312	-0.610	F 0	5	12.5	19.1
241	6.3812	24.0036	0.066	0.0140	-0.280	K 6	5	-44.8	-56.1
9216	6.3851	71.5724	0.041	-0.0210	-0.550	M 0	5	999.0	999.0
242	6.4229	12.5706	0.052	-0.0076	-0.195	F 5	3	25.3	11.3
245	6.4308	43.3748	0.068	0.0002	0.160	G 0	5	-23.7	-29.0
246*	6.4415	07.3506	0.058	-0.0180	-0.910	A 0	9	80.0	72.8
247	6.4527	60.2318	0.084	0.0310	0.450	M 0	0	-48.4	-48.1
249	6.4749	47.2612	0.075	-0.0240	-0.720	K 6	5	26.8	22.8
251	6.5135	33.2018	0.168	-0.0580	-0.420	M 4	5	36.0	27.6
9221*	6.5210	12.1342	0.068	-0.0020	0.340	M 2	5	30.0	16.0
252	6.5214	25.2624	0.053	-0.0028	0.019	G 0	5	-11.3	-22.0
254*	6.5352	30.4936	0.073	0.0070	-0.220	K 6	5	-11.0	-20.1
256	6.5607	-12.5518	0.052	0.0060	-0.080	K 8	5	1.9	-11.9
258	6.5907	68.2142	0.057	0.0600	0.070	M 5	0	999.0	999.0
262	7.0020	29.2524	0.058	0.0123	-0.828	G 4	5	21.8	12.3
263	7.0156	-10.2518	0.060	-0.0080	-0.790	M 5	0	999.0	999.0
266	7.0432	3.3148	0.055	0.0010	-0.210	M 0	5	999.0	999.0
267	7.0547	-9.5318	0.052	-0.0140	0.030	K 8	5	26.0	11.7
9227*	7.1314	27.1406	0.046	-0.0020	-0.270	M 0	5	999.0	999.0
9228	7.1359	-15.2942	0.040	-0.0044	-0.007	A 2	0	10.0	-2.9
9230	7.1511	-13.5436	0.045	-0.0110	-0.220	K 5	0	999.0	999.0
270*	7.1615	02.5542	0.051	0.0330	-0.370	M 2	5	-64.0	-72.1
272	7.1907	46.1118	0.071	-0.0050	-0.220	M 2	5	999.0	999.0
273*	7.2443	5.2242	0.270	0.0400	-0.690	M 4	5	26.0	11.2
9233*	7.2549	32.0542	0.042	0.0109	0.185	K 8	5	1.5	-6.7
9234	7.2609	49.4642	0.044	0.0120	-0.085	F 6	5	-26.7	-29.4
9235	7.2652	68.4342	0.053	-0.0320	-0.120	M 0	5	4.0	7.4
276	7.2818	14.4300	0.046	0.0040	-0.290	K 8	5	68.1	53.4
9236	7.2957	63.0306	0.040	-0.0940	-0.060	M 0	5	999.0	999.0
9237	7.3032	-3.0230	0.040	-0.0190	0.106	G 0	0	999.0	999.0
9238	7.3449	20.2048	0.041	0.0270	-0.400	M 4	0	999.0	999.0
9239	7.3603	19.2024	0.042	-0.0035	-0.177	M 0	5	999.0	999.0
281	7.3648	2.1812	0.077	-0.0040	-0.180	M 0	5	9.0	-5.2
285*	7.4204	3.4048	0.167	-0.0230	-0.440	M 4	5	18.0	3.4
9240	7.4211	70.1954	0.045	-0.0186	-0.145	G 6	5	23.9	27.0
286*	7.4216	20.0854	0.095	-0.0471	-0.052	K 0	3	0.3	-5.6
287	7.4225	2.1542	0.050	0.0050	-0.200	M 0	5	-21.0	-35.9
9241	7.4443	-13.4818	0.041	0.0120	-0.460	M 1	0	999.0	999.0
289	7.4515	20.3030	0.074	0.0910	-0.960	M 2	0	999.0	999.0
290	7.4807	00.2042	0.070	-0.1895	0.076	G 8	5	-8.3	-1.2
9244	7.5022	30.4524	0.040	0.0563	-1.826	G 2	6	-240.0	-247.9
9245	7.5203	-1.1648	0.052	-0.0177	-0.058	G 8	5	93.3	78.6
295	7.5727	29.2200	0.058	-0.0112	-1.180	G 8	5	12.5	4.4
9248*	7.5728	13.5612	0.056	-0.0050	-0.110	K 8	5	30.0	18.0
9250	8.0229	04.1324	0.040	0.0140	-0.260	M 0	5	-4.9	-11.5
9256	8.0831	32.0654	0.044	-0.0369	-0.657	G 4	5	27.3	20.5
299	8.0911	0.5936	0.151	0.0730	-5.090	M 5	5	-35.0	-47.6
9258	8.1025	-7.0306	0.042	0.0096	-0.080	K 0	0	999.0	999.0
9260	8.1505	00.4606	0.046	-0.0226	-0.824	K 4	5	11.6	4.5

STAR#	RA(1950) HH. MMSS	DEC(1950) DD. MMSS	PAR. ARCSEC	PM(RA) SECTIME	PM(DEC) ARCSEC	SP	LUM CLASS	VHEL KM/S	VLBR KM/S
302	0.1602	-12.2742	0.079	0.0184	-0.981	G 0	5	29.7	18.1
303	0.1702	27.2254	0.063	-0.0011	-0.384	F 6	5	32.5	24.3
9262*	0.2034	22.0054	0.051	0.0230	-0.220	M 0	5	-18.6	-27.0
307	0.2405	22.0719	0.052	0.0010	0.030	M 0	5	999.0	999.0
9264	0.2408	45.4924	0.047	-0.0023	-0.357	G 4	5	-33.0	-36.4
9265	0.2408	29.0542	0.043	-0.0220	0.150	K 0	5	999.0	999.0
9266	0.2539	61.5412	0.046	0.0600	-0.740	M 0	5	999.0	999.0
9267	0.2708	-1.3412	0.049	0.0260	-0.880	K 3	0	999.0	999.0
310	0.3155	67.2006	0.078	-0.1830	0.000	M 1	5	15.0	18.9
9270*	0.3309	41.5510	0.041	-0.0200	-0.620	K 2	5	58.4	55.0
9272	0.3442	18.3500	0.139	-0.0550	-0.450	M 0	0	999.0	999.0
311	0.3447	65.1142	0.064	-0.0038	0.085	G 0	5	-12.0	-9.7
9273	0.3524	-6.3754	0.042	-0.0186	0.027	G 0	0	999.0	999.0
313	0.3624	-13.0446	0.041	-0.0040	0.060	K 8	5	27.5	16.9
315	0.3767	11.4224	0.051	-0.0068	-0.513	K 3	5	-13.4	-24.0
316	0.3732	-6.1748	0.052	0.0000	-0.140	M 0	5	-5.8	-17.0
9274	0.3958	44.4036	0.048	-0.0510	-0.140	M 4	0	999.0	999.0
321*	0.4153	41.5148	0.061	-0.0251	-0.649	K 3	5	-25.9	-29.0
322	0.4734	66.1906	0.076	0.0150	0.100	M 0	5	-21.0	-17.2
327	0.5150	-5.1436	0.085	-0.0280	0.027	G 3	5	20.0	16.5
328	0.5233	1.4506	0.064	0.0000	-1.110	M 1	5	3.0	-9.1
9280	0.5544	20.4436	0.047	0.0470	-0.150	K 5	5	-46.1	-54.1
9285	0.5521	73.3654	0.049	-0.0390	-0.270	K 5	0	999.0	999.0
9286*	0.5551	26.5812	0.042	-0.0092	-0.374	G 3	5	12.8	6.0
9286	0.5529	38.0154	0.053	-0.0260	-0.610	M 2	5	6.0	1.5
9288	0.5611	46.4924	0.050	-0.0390	-0.020	M 0	5	999.0	999.0
339	0.1217	4.3900	0.045	-0.0000	0.020	K 5	5	16.0	5.3
9295	0.1654	1.0642	0.048	-0.0090	-0.106	K 0	0	46.7	29.3
9295	0.1616	-5.0224	0.048	-0.0230	-0.140	K 8	5	40.8	30.8
9297	0.2106	80.4812	0.050	-0.0023	-0.459	K 5	5	-20.0	-12.1
342*	0.2135	76.0900	0.058	-0.1003	-0.104	K 5	5	-2.1	4.7
343	0.2349	18.5820	0.061	-0.0330	-0.360	M 2	0	999.0	999.0
9298*	0.2420	39.4330	0.042	0.0123	-0.139	K 8	5	-21.0	-23.0
345	0.2624	-9.0248	0.053	0.0030	-0.060	M 0	5	999.0	999.0
9299	0.2706	-5.0010	0.042	-0.0300	-0.010	M 0	5	999.0	999.0
349*	0.3719	5.5224	0.088	-0.0340	0.100	K 3	5	26.7	17.3
9300	0.2844	20.3848	0.050	0.0050	-0.780	M 4	0	999.0	999.0
353	0.2854	36.3254	0.066	-0.0170	-0.520	M 2	5	22.0	19.4
9301	0.2950	27.1240	0.054	-0.0106	-0.240	K 0	5	13.8	0.0
355	0.3001	-10.5748	0.080	-0.0183	0.028	K 0	0	14.0	5.7
9302	0.3310	37.4548	0.048	-0.0062	-0.075	M 0	5	999.0	999.0
9304*	0.3425	22.5542	0.046	-0.0100	-0.190	K 8	5	-32.5	-38.0
359	0.3811	22.1536	0.092	0.0360	-0.420	M 6	0	999.0	999.0
360*	0.3822	70.1554	0.078	-0.1280	-0.310	M 3	0	2.0	7.6
361*	0.3830	13.2624	0.076	-0.0520	-0.090	M 2	5	19.0	11.7
362*	0.3839	70.1618	0.091	-0.1280	-0.310	M 4	0	999.0	999.0
363	0.3857	56.1812	0.071	-0.0950	-0.480	M 5	0	999.0	999.0
365	0.4017	42.5554	0.069	0.0042	-0.831	K 5	5	-13.4	-13.9
366*	0.4142	76.1718	0.061	0.0200	-0.980	M 2	0	-3.0	4.2
368	0.4322	46.1518	0.066	0.0216	-0.100	G 2	5	5.2	5.7
369	0.4640	-12.0430	0.081	0.0728	-1.433	M 2	5	61.0	54.0
371	0.4937	3.2724	0.044	-0.0280	0.020	M 0	5	18.1	9.5
372	0.5041	-3.2654	0.076	-0.0060	-0.460	M 0	5	999.0	999.0
373	0.5229	63.0200	0.083	-0.0500	-0.600	M 1	5	10.6	15.2
9310	0.5736	27.3824	0.046	0.0003	0.104	M 0	5	999.0	999.0

STAR#	RA(1950) HH.MMSS	DEC(1950) DD.MMSS	PAR. ARCSEC	PM(RA) SECTIME	PM(DEC) ARCSEC	SP	LUM CLASS	VHEL KM/S	VLSR KM/S
376	9.5808	32.1012	0.054	-0.0410	-0.436	G 2	5	56.0	53.9
378	9.5914	48.2166	0.057	-0.0590	-1.390	M 2	5	-4.0	-2.4
9311*	9.5923	44.4918	0.053	-0.0230	-0.070	K 8	5	32.7	33.5
9312	10.0122	19.0230	0.042	-0.0130	-0.210	M 0	5	999.0	999.0
9313*	10.0422	3.1236	0.047	-0.0050	-0.090	M 0	5	-20.0	-27.7
9314*	10.0429	35.2924	0.045	0.0043	-0.002	A 7	5	-17.8	-18.8
9315	10.0449	-14.0342	0.042	-0.0082	-0.030	M 0	5	999.0	999.0
380*	10.0819	49.4230	0.222	-0.1403	-0.513	K 7	5	-26.0	-23.7
381*	10.0931	-2.2542	0.116	0.0330	-0.620	M 0	5	999.0	999.0
382*	10.0946	-3.2942	0.105	-0.0100	-0.210	M 2	5	12.2	4.9
383	10.0947	-16.2212	0.071	-0.0370	0.000	M 0	5	999.0	999.0
9319	10.1043	52.4542	0.049	0.0090	-0.740	M 0	5	-24.8	-21.8
9321	10.1115	-7.0812	0.040	-0.0128	0.017	F 6	5	14.6	8.1
9322	10.1132	-3.2418	0.043	0.0158	-0.413	G 1	5	-24.2	-31.4
386	10.1420	-11.4212	0.109	-0.0280	-0.610	K 0	0	999.0	999.0
388*	10.1654	20.0718	0.206	-0.0346	-0.050	M 4	5	9.9	6.3
9324*	10.1701	19.4330	0.051	-0.0165	-0.221	F 6	4	6.9	3.2
9325*	10.1825	-15.1354	0.046	-0.0156	0.277	F 8	5	79.1	74.6
9326	10.1913	41.2900	0.042	-0.0109	-0.144	F 6	5	-6.5	-5.5
9328	10.2145	-10.0900	0.051	0.0200	-0.300	K 8	5	999.0	999.0
390	10.2244	-9.5836	0.069	-0.0480	0.100	M 0	5	999.0	999.0
9330	10.2510	82.4654	0.045	-0.0435	0.024	F 4	4	7.0	15.0
393	10.2623	1.0624	0.130	-0.0410	-0.760	M 2	5	11.6	5.0
394*	10.2714	56.1524	0.093	-0.0200	-0.060	K 7	5	3.0	7.4
395*	10.2726	56.1418	0.081	-0.0213	-0.037	F 8	5	9.2	13.6
396	10.2815	84.0924	0.065	0.0140	0.049	K 0	0	-0.5	8.6
397	10.2827	45.4738	0.067	-0.0550	-0.580	K 7	5	22.8	25.1
9331*	10.2838	57.2210	0.048	-0.0060	0.158	M 0	5	-2.0	2.6
398*	10.3030	5.2248	0.073	-0.0440	0.130	M 4	5	21.0	15.7
9334*	10.3403	-11.5742	0.045	0.0173	-0.676	F 8	5	-6.5	-12.6
399	10.3712	-6.3942	0.103	-0.0450	-0.110	M 0	0	999.0	999.0
401	10.4319	-16.5030	0.094	-0.1300	-0.600	M 0	0	999.0	999.0
9335	10.4929	0.0630	0.047	0.0050	-0.290	G 5	0	999.0	999.0
403	10.4930	14.1542	0.065	-0.0720	0.190	M 4	0	999.0	999.0
9337	10.5040	76.1948	0.044	-0.1311	0.124	K 4	5	-22.5	-14.3
9338*	10.5103	-19.5106	0.052	0.0055	-0.244	F 6	5	-4.8	-6.3
405	10.5254	56.1736	0.063	-0.0670	0.030	M 1	0	999.0	999.0
406*	10.5405	7.1900	0.429	-0.2600	-2.700	M 6	5	13.0	9.4
9341	10.5420	69.5148	0.041	-0.1250	0.050	M 0	5	7.0	14.5
9342	10.5528	48.3336	0.048	0.0060	-0.085	M 0	5	999.0	999.0
407	10.5640	40.4154	0.074	-0.0280	0.052	G 0	5	12.6	15.4
408	10.5725	23.0610	0.151	-0.0290	-0.280	M 3	5	29.0	28.6
409	10.5929	-17.4112	0.056	-0.0010	-0.020	O 0	0	999.0	999.0
410*	10.5957	22.1412	0.088	0.0110	-0.040	M 2	5	-20.0	-20.4
411*	11.0037	36.1818	0.396	-0.0467	-4.745	M 2	5	-86.5	-84.3
413	11.0553	16.0236	0.051	0.0130	-0.360	M 0	5	106.2	105.0
9348	11.0707	15.4912	0.042	-0.0044	-0.167	M 0	5	999.0	999.0
415	11.0843	-10.4112	0.051	-0.0590	0.660	M 0	5	40.0	38.1
416	11.0901	-14.4242	0.054	0.0490	-0.580	M 0	5	-1.2	-2.4
417	11.0949	36.0518	0.042	-0.0224	-0.177	G 0	5	-2.6	0.1
418	11.1039	4.4518	0.054	-0.0200	-0.030	K 5	0	19.0	16.1
419*	11.1127	20.4754	0.040	0.0104	-0.138	A 4	5	-20.6	-20.5
9354	11.1348	26.4200	0.040	-0.0127	0.026	M 0	5	999.0	999.0
9355	11.1357	-14.2500	0.040	-0.0140	-0.100	M 0	5	999.0	999.0
9356	11.1442	-1.4230	0.044	-0.0350	-0.010	K 6	5	4.0	0.9

STAR#	RA(1950) HH. MMSS	DEC(1950) DD. MMSS	PAR. ARCSEC	PM(RA) SECTIME	PM(DEC) ARCSEC	SP	LUM CLASS	VHEL KM/S	VLSR KM/S
9357	11.1547	-4.4730	0.054	0.0529	-0.149	G 8	5	10.1	7.6
424*	11.1729	66.0700	0.119	-0.4854	0.149	M 1	5	46.9	54.5
9358	11.2055	7.2148	0.042	0.0139	-0.051	M 0	5	70.0	68.0
427*	11.2139	21.3806	0.084	-0.0720	0.020	A 0	9	57.0	57.9
9360	11.2526	-8.5342	0.049	0.0350	-0.820	M 0	0	999.0	999.0
9364	11.2656	40.4636	0.045	-0.0138	-0.009	M 0	5	4.1	0.7
9365*	11.2988	22.5630	0.058	-0.0420	-0.020	M 1	5	-8.0	-6.4
9367	11.3148	0.2018	0.044	-0.0122	-0.108	F 5	5	0.0	1.4
9368	11.3311	24.5230	0.042	0.0005	0.053	K 0	5	6.5	0.7
9371	11.3700	67.3624	0.044	0.0590	-3.180	K 4	5	-118.0	-109.7
434*	11.3825	34.2900	0.110	-0.0011	-0.390	G 0	5	-5.4	-1.8
9372	11.3915	5.2530	0.046	0.0140	-0.460	K 0	5	18.7	18.0
436	11.3931	26.5942	0.113	0.0500	-0.790	M 0	5	10.0	13.0
439	11.4204	31.1400	0.054	-0.0050	-0.380	K 0	5	28.3	32.2
441	11.4300	72.0213	0.054	0.0040	0.060	K 0	5	-23.6	-14.7
443	11.4408	-13.4836	0.083	0.0520	-0.780	M 0	0	999.0	999.0
9373	11.4420	51.1524	0.048	0.0083	-0.087	M 0	5	1.8	0.6
445	11.4434	78.5742	0.195	0.2550	0.470	M 4	5	-113.0	-109.7
447*	11.4509	1.0600	0.301	0.0420	-1.250	M 5	5	-13.0	-14.0
448	11.4601	14.5106	0.076	-0.0342	-0.122	A 3	5	-0.1	1.4
449	11.4805	2.0248	0.100	0.0495	-0.277	F 0	5	4.7	4.1
450*	11.4833	35.3248	0.096	-0.0230	0.240	M 1	5	4.0	0.9
✓ Aug 75 451*	11.5006	39.0436	0.110	0.3383	-5.800	G 0	5	-98.0	-92.0
452	11.5043	-7.0518	0.083	-0.0100	-0.520	M 4	0	999.0	999.0
9375	11.5133	16.0542	0.095	0.0070	-0.720	M 0	0	999.0	999.0
9379*	11.5222	29.0112	0.046	0.0160	-0.290	M 0	5	-7.0	-2.0
9381	11.5236	1.1506	0.040	-0.0460	0.060	M 2	0	999.0	999.0
9382*	11.5328	-16.5218	0.042	-0.0037	-0.012	A 0	5	15.0	17.0
454	11.5310	-10.0942	0.080	0.0083	-0.480	G 7	5	0.4	1.9
9384	11.5335	-1.2710	0.048	-0.0300	0.200	M 0	0	999.0	999.0
455	11.5348	20.5200	0.059	-0.0590	0.000	M 4	0	999.0	999.0
9387	12.0017	-10.3530	0.044	-0.0040	-0.300	M 0	5	999.0	999.0
456	12.0052	-0.1212	0.064	-0.0640	-0.080	M 1	5	31.0	31.4
9393	12.0019	41.1718	0.043	0.0022	0.234	M 0	5	999.0	999.0
9394	12.0029	13.0242	0.041	-0.0130	-0.410	F 6	5	95.0	97.0
457	12.0036	59.1218	0.059	0.0130	0.010	M 0	5	-15.0	-16.0
9395	12.0052	-6.0442	0.040	-0.0180	-0.290	K 0	0	999.0	999.0
9396	12.0057	-2.4842	0.046	-0.0403	0.401	G 4	5	10.0	12.0
9397	12.1040	16.5042	0.042	-0.0310	-0.480	M 2	5	999.0	999.0
9399	12.1241	49.0042	0.046	-0.0300	-0.020	M 0	5	999.0	999.0
459*	12.1258	57.1836	0.053	0.0131	0.083	A 3	5	-12.0	-14.2
9401	12.1350	60.2318	0.040	-0.0147	-0.040	M 0	5	999.0	999.0
9403*	12.1521	46.5406	0.050	-0.0680	-0.040	M 0	5	999.0	999.0
9404	12.1656	20.3930	0.051	-0.0480	0.110	M 2	5	-25.0	-19.0
461*	12.1752	0.5142	0.060	0.0060	-0.020	M 0	5	-16.0	-14.0
462*	12.1925	42.2506	0.070	0.0190	-0.530	M 0	5	14.7	22.0
463	12.2045	64.1812	0.070	-0.0990	0.390	M 4	5	60.0	69.4
464	12.2121	12.5136	0.050	0.0040	-0.170	M 2	5	10.0	13.0
9405	12.2201	31.0324	0.051	-0.0157	0.019	G 0	0	-7.0	-11.1
465	12.2213	-17.5600	0.110	0.0000	-2.250	M 4	5	58.0	62.5
466	12.2325	0.2024	0.055	-0.0080	-0.090	M 0	5	-5.0	-1.9
468*	12.2555	-10.0106	0.081	0.0130	-0.190	M 0	5	2.7	7.5
469*	12.2620	0.4218	0.078	-0.0370	-0.430	M 5	0	999.0	999.0
9408	12.2710	-3.0300	0.051	-0.0224	-0.583	G 0	5	-4.1	-1.6
471*	12.2846	0.0536	0.069	-0.0430	-0.520	M 1	5	21.2	24.0

STAR#	RA(1950) HH. MMSS	DEC(1950) DD. MMSS	PAR. ARCSEC	PM(RA) SECTIME	PM(DEC) ARCSEC	SP	LUM CLASS	VHEL KM/S	WLSR KM/S
9410	12.2908	28.5930	0.046	0.0040	-0.110	M 0	5	999.0	999.0
474	12.3120	33.3936	0.053	0.0001	-0.016	K 0	3	-42.7	-35.4
475	12.3122	41.3742	0.109	-0.0629	0.284	G 0	5	6.9	15.0
476	12.3200	10.0630	0.070	-0.0320	-0.290	M 4	0	999.0	999.0
9412*	12.3252	34.2130	0.040	-0.0038	0.024	M 0	5	-9.0	-1.6
9414*	12.3544	79.2924	0.051	-0.0447	0.005	G 2	5	-18.5	-8.5
480	12.3625	11.5830	0.065	-0.0780	-0.220	M 4	5	8.0	12.6
481	12.3836	15.3924	0.087	0.0000	-0.420	K 8	5	23.5	28.8
483	12.4159	52.0206	0.063	-0.0427	-0.196	K 0	5	8.6	18.1
484	12.4238	39.3300	0.065	-0.0307	0.132	G 0	5	80.9	89.5
485*	12.4454	31.2924	0.057	0.0040	-0.220	K 4	5	-1.6	6.2
486	12.4529	10.0154	0.111	-0.0650	-0.500	M 4	5	5.0	9.9
9417*	12.4629	60.3530	0.040	0.0145	-0.005	F 6	5	-12.0	-1.9
487*	12.4704	66.2300	0.116	-0.0750	-0.100	M 3	5	-18.0	-7.7
9418	12.4805	71.2736	0.040	-0.0470	-0.190	K 8	0	-86.6	-76.3
488*	12.4810	-0.2924	0.091	-0.0028	-0.397	M 0	5	2.8	6.4
9420	12.5028	34.0000	0.040	-0.0170	-0.020	K 8	5	10.3	18.7
9421*	12.5037	-3.1654	0.042	-0.0173	-0.007	F 6	5	-7.1	-2.9
9424	12.5222	-6.0354	0.046	-0.0140	-0.170	K 8	5	999.0	999.0
489	12.5507	-14.1136	0.062	-0.0230	0.010	K 6	5	5.1	11.2
492*	12.5738	3.4530	0.108	-0.0350	-0.910	D 0	9	999.0	999.0
493*	12.5745	-2.2606	0.054	-0.0490	0.010	M 0	5	-12.3	-7.7
494*	12.5819	12.3842	0.073	-0.0460	-0.010	M 2	5	-10.1	-3.9
495	12.5927	-1.4848	0.079	0.0010	-0.480	K 0	5	156.0	160.6
498	13.0329	49.4412	0.048	0.0050	0.120	K 8	5	-6.4	4.0
9427	13.0515	34.4006	0.051	-0.0103	-0.005	K 8	5	-7.8	1.6
9428	13.0605	17.1430	0.044	-0.0057	-0.003	M 0	5	999.0	999.0
9429	13.0619	5.2900	0.044	0.0056	-0.688	G 5	4	22.2	27.9
502	13.0932	20.0754	0.120	-0.0604	0.076	G 0	5	6.1	15.1
9433	13.1004	74.0712	0.042	-0.0795	0.050	G 2	0	-42.0	-32.1
9434*	13.1134	56.5824	0.050	0.0135	-0.035	G 2	5	-8.8	2.1
9435*	13.1316	-19.4042	0.046	0.0216	-0.123	K 1	4	34.1	42.3
504	13.1418	9.4106	0.077	-0.0227	0.165	G 0	5	-25.9	-19.0
9436	13.1507	20.4048	0.044	-0.0014	0.020	M 0	5	999.0	999.0
9437*	13.1541	36.3354	0.044	-0.0050	-0.280	M 2	5	23.0	33.1
506	13.1547	-18.0290	0.119	-0.0754	-1.076	G 6	5	-8.5	-0.3
9438	13.1624	-2.4830	0.047	-0.0450	-0.230	K 4	5	126.0	131.9
9439	13.1646	85.0042	0.049	-0.1018	0.020	F 7	5	11.3	21.5
9440	13.1722	33.3636	0.050	-0.0240	-0.100	M 2	5	-4.0	6.0
9442	13.1838	34.3242	0.052	0.0390	-0.290	M 0	5	-23.0	-12.0
9443	13.2100	-13.4648	0.046	-0.0330	-0.370	K 7	0	999.0	999.0
9444*	13.2447	-15.4254	0.057	-0.0084	0.018	K 1	3	-14.1	-5.6
9446	13.2559	14.0242	0.041	-0.0163	-0.563	G 5	4	4.2	12.5
513	13.2652	11.4254	0.057	0.0220	-1.200	M 5	0	40.0	48.0
514	13.2727	10.3900	0.131	0.0670	-0.990	M 1	5	16.2	24.1
9447*	13.2730	-8.2636	0.047	-0.0740	-0.510	M 6	5	999.0	999.0
515*	13.2740	-8.1836	0.066	-0.0740	-0.420	A 0	9	999.0	999.0
9449	13.3054	43.3136	0.040	0.0027	-0.035	K 8	5	-3.7	7.7
9451	13.3143	33.2854	0.045	-0.0230	0.330	K 8	0	1.1	11.9
9452*	13.3152	75.1542	0.041	-0.1100	0.040	K 6	5	-35.0	-23.9
517*	13.3207	-8.0506	0.061	-0.0190	-0.090	K 5	5	-20.1	-12.2
9413*	13.3252	-0.1100	0.040	0.0012	0.191	M 0	5	999.0	999.0
9453*	13.3403	74.4518	0.042	-0.1110	-0.020	K 5	5	-3.0	8.1
518*	13.3410	3.5700	0.135	-0.2470	-1.130	G 8	9	999.0	999.0
9454	13.3429	8.0136	0.047	-0.0540	-0.350	D 0	0	999.0	999.0

STAR#	RA(1950) HH. MMSS	DEC(1950) DD. MMSS	PAR. ARCSEC	PM(RA) SECTIME	PM(DEC) ARCSEC	SP	LUM CLASS	VHEL KM/S	VLSR KM/S
521	13.3720	46.2606	0.100	-0.0040	0.390	M 2	5	-40.0	-28.2
9456	13.3733	-3.5624	0.077	-0.0250	0.480	K 6	5	34.0	41.6
522	13.3923	0.0742	0.076	-0.0100	-0.390	M 1	5	46.6	53.7
523*	13.4113	39.3006	0.046	0.0000	-0.100	K 8	5	-1.8	9.9
9458	13.4230	-4.2206	0.051	-0.0110	-0.060	M 2	5	12.0	20.0
525*	13.4239	18.0342	0.097	0.0304	-1.848	M 1	5	27.4	37.3
526*	13.4312	15.0942	0.205	0.1228	-1.457	M 4	5	15.2	24.0
9460	13.4709	-17.5312	0.044	-0.0071	-0.044	K 1	3	-39.7	-29.5
532	13.5001	50.1154	0.076	0.0450	-0.160	M 0	5	-41.4	+29.0
533*	13.5102	13.1149	0.070	-0.0130	-0.680	M 0	5	6.0	15.8
9461*	13.5124	65.5206	0.047	-0.0910	-0.120	M 1	0	999.0	999.0
9462	13.5401	79.0542	0.053	-0.0940	0.120	M 0	5	0.0	11.1
535	13.5700	23.0642	0.061	-0.0120	0.010	M 0	5	-51.5	-40.1
9464	13.5823	18.2012	0.040	-0.0070	0.310	M 0	5	999.0	999.0
536	13.5831	-2.2518	0.092	-0.0530	0.610	M 0	5	999.0	999.0
538	14.0105	11.0148	0.061	0.0054	-0.314	G 8	5	-17.0	-6.8
540*	14.0912	80.5024	0.071	0.0750	-0.550	M 1	5	17.0	28.0
9472	14.1053	-6.4336	0.044	0.0120	0.100	M 0	5	999.0	999.0
9473*	14.1323	-5.4548	0.043	-0.0007	-0.429	F 6	3	11.5	21.7
541*	14.1323	19.2630	0.092	-0.0776	-2.003	K 1	3	-5.2	6.8
9475	14.1529	45.4030	0.046	0.0090	-0.020	M 0	5	999.0	999.0
9477	14.1620	-6.2206	0.046	0.0000	-0.400	M 0	5	13.0	24.2
9478	14.1626	-7.0354	0.042	0.0000	0.000	O 0	0	999.0	999.0
543	14.1636	-7.0348	0.075	-0.0720	-0.840	M 4	0	999.0	999.0
545	14.1729	-9.2248	0.092	-0.0430	-0.940	M 5	0	999.0	999.0
546*	14.1948	29.5142	0.073	-0.0509	-0.314	K 8	5	-38.2	-25.0
547	14.2042	1.2630	0.061	0.0148	-0.484	G 1	5	-17.5	-7.6
9480	14.2531	24.0348	0.050	-0.0350	0.080	M 0	5	-59.0	-45.9
552	14.2711	15.4412	0.073	-0.0720	1.350	M 3	5	19.1	31.4
553*	14.2812	-8.2510	0.052	-0.0040	-0.220	K 7	5	-26.0	-15.3
9484	14.2820	-12.0412	0.083	-0.0260	-0.380	M 4	0	999.0	999.0
554*	14.2842	35.4018	0.054	-0.0400	0.190	K 5	5	-12.0	1.9
9485	14.2948	11.3412	0.044	0.0070	0.260	M 0	5	-39.3	-27.0
9486	14.3054	-9.4230	0.042	-0.0160	-0.520	M 0	0	999.0	999.0
555	14.3135	-12.1836	0.160	-0.0210	0.620	M 4	0	999.0	999.0
556	14.3151	53.0724	0.071	-0.0228	0.236	K 3	5	14.1	28.1
557	14.3230	29.0742	0.063	0.0144	0.124	F 2	5	0.2	14.1
558	14.3255	33.5742	0.051	-0.0590	0.220	M 0	5	-51.9	-37.0
9488*	14.3756	64.2824	0.048	-0.0227	-0.008	G 0	5	-30.5	-17.1
9489	14.3826	31.4206	0.042	0.0120	-0.070	K 5	0	999.0	999.0
9491	14.4025	-5.2630	0.041	0.0071	-0.322	F 4	4	5.4	17.1
561	14.4109	26.0742	0.052	-0.0230	0.000	G 5	0	-80.0	-65.9
9492	14.4132	66.1442	0.040	-0.0530	-0.030	M 0	5	999.0	999.0
9493	14.4254	17.1030	0.043	-0.0042	-0.050	K 0	3	-9.4	4.0
562	14.4403	16.4806	0.072	-0.0088	-0.928	K 5	5	47.0	61.2
563	14.4423	-12.0142	0.062	-0.0320	-0.190	K 5	5	999.0	999.0
9496*	14.4720	23.1418	0.040	0.0035	-0.016	F 6	4	1.9	16.1
9497	14.4755	7.0118	0.052	-0.0406	-0.053	K 2	5	-31.3	-18.0
9498*	14.4755	-15.4724	0.048	-0.0069	-0.075	F 5	4	-23.0	-9.5
9499*	14.4806	-15.5006	0.054	-0.0074	-0.074	R 0	0	-10.0	3.5
9500	14.5131	23.0254	0.040	-0.0609	0.019	K 3	5	-80.3	-15.9
569*	14.5208	16.1818	0.096	0.0220	-0.140	M 0	5	5.0	18.3
9501	14.5344	53.5236	0.046	-0.1102	0.468	K 1	5	-14.9	-0.2
9502	14.5355	17.5654	0.048	-0.0134	0.061	M 0	5	999.0	999.0
9503	14.5434	-4.0836	0.041	-0.0069	-0.161	F 0	4	21.6	33.9

STAR#	RA(1950) HH. MMSS	DEC(1950) DD. MMSS	PAR. ARCSEC	PM(RA) SECTIME	PM(DEC) ARCSEC	SP	LUM CLASS	VHEL KM/S	VLSR KM/S
9505	14.5529	31.3624	0.066	-0.0710	-1.200	M 2	5	24.0	39.0
9506	14.5602	56.0624	0.042	-0.0110	0.340	M 0	5	999.0	999.0
9507	14.5801	-10.5554	0.051	0.0004	-0.472	M 0	5	14.0	27.4
572	14.5909	45.3706	0.069	0.0250	0.340	M 0	5	-14.8	0.4
573	14.5909	16.0406	0.043	0.0050	-0.260	K 8	5	3.4	17.5
9509	15.0215	29.4024	0.047	0.0160	-0.170	O 0	0	999.0	999.0
576*	15.0227	5.5024	0.057	-0.0440	-0.380	K 5	0	-68.0	-55.0
9510	15.0358	65.0018	0.040	-0.0445	-0.026	G 8	0	999.0	999.0
577*	15.0457	64.1412	0.053	+0.0205	0.086	G 5	5	-4.3	9.7
578*	15.0506	25.0348	0.062	0.0135	-0.177	F 5	5	-7.3	7.8
579	15.0516	25.0712	0.075	-0.0645	0.490	K 7	5	-65.4	-50.2
9513	15.1014	-0.5830	0.047	-0.0123	-0.298	K 0	0	-59.5	-46.9
9514	15.1125	-3.3654	0.040	-0.0500	0.200	K 4	5	-107.7	-94.6
9515	15.1315	7.4742	0.042	-0.0018	-0.186	M 0	5	999.0	999.0
9517	15.1403	67.3212	0.047	0.0380	-0.394	F 8	5	-46.8	-33.0
9518	15.1538	-18.2506	0.044	0.0380	-0.370	K 5	0	999.0	999.0
581*	15.1650	-7.3224	0.153	-0.0830	-0.100	M 5	5	-30.0	-16.1
583	15.1927	-4.3554	0.059	-0.0200	0.010	K 6	0	-15.0	-1.4
9520	15.1938	21.0918	0.044	0.0064	0.150	M 0	5	999.0	999.0
9521	15.2011	1.3606	0.041	-0.0239	-0.382	K 3	5	-30.4	-17.2
585	15.2135	17.3936	0.091	-0.0250	-1.190	M 6	0	999.0	999.0
9523	15.3203	38.0454	0.046	0.0021	-0.077	M 0	5	999.0	999.0
591*	15.3410	39.5942	0.053	-0.0393	0.051	K 5	5	-71.5	-54.9
592	15.3413	-13.5748	0.090	-0.0340	-0.650	M 5	0	999.0	999.0
595	15.3920	-19.1836	0.111	-0.1420	-0.980	M 5	0	999.0	999.0
596	15.4055	26.2612	0.056	0.0060	-0.120	O 0	0	999.0	999.0
9526*	15.4148	6.3454	0.049	0.0090	0.039	K 2	3	2.9	17.0
597	15.4215	76.0936	0.065	0.2500	-0.870	M 4	0	999.0	999.0
598	15.4401	7.3030	0.094	-0.0152	-0.072	G 0	5	-66.4	-51.3
602	15.5057	42.3524	0.056	0.0396	0.629	F 9	5	-55.2	-38.1
9531*	15.5330	38.0524	0.043	0.0030	0.074	F 0	5	-11.6	5.7
603	15.5488	15.4924	0.081	0.0213	-1.292	F 6	5	-6.7	23.0
9532	15.5544	63.5724	0.044	-0.0200	0.150	G 5	0	999.0	999.0
9533	15.5632	27.5242	0.044	-0.0574	0.306	K 0	5	-69.8	-52.5
605	15.5655	59.2436	0.050	-0.0410	0.230	M 0	5	999.0	999.0
606	15.5711	-8.0648	0.053	0.0140	-0.030	M 0	5	999.0	999.0
9537	15.5908	33.2712	0.042	-0.0160	-0.774	G 2	5	13.4	35.9
607	15.5945	30.1900	0.063	-0.0250	0.130	M 4	0	999.0	999.0
608	15.5953	61.4800	0.046	-0.0650	0.030	M 0	5	-37.2	-21.7
609	16.0043	20.4442	0.099	-0.0690	-1.240	M 4	0	999.0	999.0
9545	16.0358	00.4548	0.046	-0.0111	0.016	K 0	0	-36.0	-24.0
612	16.0442	38.4624	0.057	0.0204	-0.546	K 3	5	24.0	41.6
9546	16.0448	34.4554	0.046	0.0210	-0.590	M 0	5	8.2	25.0
614*	16.0847	43.5700	0.063	0.0115	-0.389	K 1	5	-5.5	12.0
9549*	16.1203	33.5354	0.064	-0.0220	-0.070	O 0	0	-10.9	7.0
616	16.1254	-8.1418	0.061	0.0153	-0.508	G 1	5	10.6	26.9
9551	16.1510	71.0324	0.042	-0.0043	-0.298	G 5	5	-17.5	-3.4
9552*	16.1559	55.2348	0.048	0.0130	-0.490	M 1	5	-30.0	-13.4
9555	16.1748	-4.0854	0.049	-0.0270	-0.030	M 2	5	999.0	999.0
9556	16.1750	51.5224	0.046	-0.0240	0.200	M 0	5	999.0	999.0
619	16.1912	41.0436	0.064	0.0000	0.030	M 0	5	4.9	22.8
621*	16.2132	-13.3130	0.061	-0.0162	-0.216	K 3	5	9.7	26.9
623	16.2239	48.2824	0.138	0.1160	-0.430	M 3	5	-23.6	-11.1
625	16.2414	54.2506	0.069	0.0490	-0.160	M 2	5	999.0	999.0
626	16.2532	7.2512	0.058	-0.0180	-0.270	K 0	5	-31.8	-15.2

STAR#	RA(1950) HH. MMSS	DEC(1950) DD. MMSS	PAR. ARCSEC	PM(RA) SECTINE	PM(DEC) ARCSEC	SP	LUM CLASS	VHEL KM/S	VLSR KM/S
9564*	16.2640	36.5212	0.056	-0.0420	0.740	F 0	9	999.0	999.0
9565	16.3011	-12.2900	0.048	-0.0210	-0.210	M 0	5	999.0	999.0
9567*	16.3205	-4.0700	0.051	-0.0000	-0.660	G 5	5	-162.0	-146.5
630	16.3317	33.2418	0.052	-0.0170	-0.100	M 0	5	999.0	999.0
631*	16.3344	-2.1312	0.090	0.0301	-0.317	K 0	5	-15.4	0.7
632	16.3428	79.5342	0.056	0.0021	-0.083	G 3	5	-14.0	-1.7
9569	16.3452	31.1212	0.056	0.0270	-0.480	K 6	5	-6.8	11.7
9571	16.3616	5.3154	0.046	-0.0120	-0.010	O 0	0	999.0	999.0
9572	16.3722	5.3630	0.042	0.0069	-0.334	K 2	0	999.0	999.0
9573	16.3831	-2.4510	0.045	-0.0010	-0.442	G 2	5	-42.1	-25.0
9574	16.3841	-17.3848	0.044	-0.0015	-0.005	G 3	2	-25.2	-7.2
9575	16.4041	79.0040	0.046	-0.0077	0.033	G 9	0	-19.9	-7.3
636*	16.4111	39.0100	0.054	0.0030	-0.090	G 0	3	0.0	26.0
9576	16.4244	68.1118	0.049	-0.0513	0.424	K 1	5	6.4	21.0
638	16.4315	33.3542	0.104	-0.0040	0.300	K 7	5	-30.5	-11.0
639	16.4650	37.0618	0.051	-0.0059	-0.386	K 7	5	3.4	22.0
640	16.4754	18.5912	0.058	-0.0020	-0.090	K 5	5	-1.3	17.0
641	16.5027	0.0430	0.067	-0.0402	-1.508	G 6	5	41.2	57.0
642	16.5154	11.5924	0.053	-0.0380	0.340	M 2	5	-61.0	-40.2
647	16.5528	13.2200	0.050	0.0030	0.090	M 0	5	999.0	999.0
649	16.5607	25.4936	0.035	-0.0000	-0.540	M 2	5	6.4	25.2
650	16.5822	-13.2924	0.059	-0.0017	-0.326	G 3	0	-97.6	-79.5
651	17.0112	47.0824	0.062	0.0120	0.841	G 0	5	-46.2	-20.0
653*	17.0227	-4.5900	0.086	-0.0622	-1.130	K 5	5	28.5	45.6
654*	17.0237	-5.0042	0.101	-0.0620	-1.110	M 4	5	31.3	48.4
9583	17.0244	0.4630	0.049	-0.0006	-0.342	F 0	5	-17.5	-1.0
9586	17.0450	88.4140	0.048	0.0071	0.026	K 0	0	999.0	999.0
655	17.0501	21.3712	0.102	-0.0360	0.010	M 3	0	999.0	999.0
9588	17.1011	-5.0324	0.049	0.0110	-0.640	K 0	0	999.0	999.0
671	17.1815	41.4630	0.032	0.0240	-0.820	M 4	0	999.0	999.0
672	17.1847	32.3140	0.073	0.0100	-1.047	G 1	5	-78.4	-59.2
673	17.2316	2.1012	0.132	-0.0392	-1.196	K 7	5	-28.3	-11.3
9592*	17.2755	5.3524	0.104	0.0010	-0.270	M 1	5	-11.2	6.4
679	17.3013	34.1810	0.051	-0.0192	0.046	G 5	5	-02.1	-32.0
681*	17.3337	12.3542	0.050	0.0000	-0.232	A 5	3	12.7	31.2
685*	17.3502	61.4300	0.070	0.0340	-0.520	M 1	0	-11.0	5.5
686*	17.3539	18.3624	0.126	0.0650	0.990	M 1	5	-9.0	9.2
687*	17.3642	68.2300	0.214	-0.0653	-1.260	M 4	5	-21.7	-6.5
688	17.3648	3.3500	0.081	-0.0121	-0.103	K 3	5	19.1	36.5
689	17.3702	71.5424	0.047	0.0220	-0.060	K 0	5	-23.6	-9.1
9598	17.3939	-16.3630	0.056	-0.0090	-0.690	G 0	0	999.0	999.0
9599	17.3945	65.0130	0.041	-0.0051	0.082	K 0	0	999.0	999.0
9600	17.4022	-18.2942	0.041	-0.0120	-0.540	M 2	0	999.0	999.0
9601	17.4109	21.0824	0.047	-0.0101	-0.645	K 0	5	20.0	39.2
694	17.4225	49.2424	0.103	-0.0010	-0.600	M 3	5	-22.6	-3.7
9603*	17.4411	46.5324	0.042	-0.0010	-0.020	M 0	5	18.0	36.6
9605	17.4516	4.5730	0.044	-0.0440	-0.230	K 1	5	-93.1	-75.5
696	17.4753	-6.0200	0.077	-0.0010	-0.140	M 2	5	-21.0	-3.2
697	17.5122	21.2000	0.052	-0.0060	0.070	K 5	5	-10.5	0.8
9606	17.5256	3.4542	0.052	-0.0060	0.040	M 0	5	3.0	20.5
698*	17.5334	18.3024	0.052	-0.0010	-0.050	K 8	5	-28.4	-9.3
699*	17.5323	4.3318	0.548	-0.0500	10.310	M 5	5	-107.0	-90.2
9609*	17.5558	4.2736	0.040	-0.0030	0.000	K 5	0	-12.1	5.5
9610*	17.5647	32.4354	0.055	-0.7060	3.300	A 0	0	-154.0	-142.2
9611	17.5750	-3.4118	0.045	0.0096	-0.048	F 0	5	-42.9	-25.4

STAR#	RA(1950) HH. MMSS	DEC(1950) DD. MMSS	PAR. ARCSEC	PM(RA) SECTIME	PM(DEC) ARCSEC	SP	LUM CLASS	VHEL KM/S	VLSR KM/S
9613	18.0029	26.1912	0.049	0.0284	-0.596	K 0	5	22.8	42.3
701	18.0228	-3.0154	0.138	0.0380	-0.290	M 2	5	34.0	51.4
9614	18.0389	4.3924	0.045	-0.0012	-0.309	G 1	5	-123.5	-105.9
703	18.0504	15.5624	0.072	-0.0044	-0.206	G 6	0	-103.5	-84.6
705	18.0510	15.5654	0.055	0.0060	0.000	K 2	0	-38.0	-19.1
9617	18.0648	52.4724	0.052	-0.0470	-0.070	K 5	0	999.0	999.0
706	18.0758	38.2712	0.093	-0.0264	-0.475	K 2	5	-18.7	0.6
708	18.1307	18.2854	0.062	0.0040	0.090	M 1	5	8.0	27.1
9619	18.1386	64.2248	0.047	0.0533	0.031	F 5	5	-35.3	-19.2
9620	18.1345	13.5406	0.063	0.0050	-0.500	M 0	5	11.0	29.7
9621	18.1340	1.3030	0.058	-0.0270	-0.610	M 5	0	999.0	999.0
9622	18.1406	45.1136	0.046	-0.0068	-0.114	G 0	5	-64.4	-45.6
709	18.1505	45.3200	0.069	-0.0010	0.330	M 0	5	999.0	999.0
9625	18.1601	-6.4306	0.043	-0.0045	-0.029	K 0	5	-19.7	-1.0
710*	18.1715	-1.5742	0.068	0.0001	-0.007	M 1	5	-23.3	-6.1
711	18.1843	-2.5448	0.056	-0.0371	-0.700	K 0	3	8.9	26.2
712	18.1944	6.1730	0.064	-0.0740	0.470	M 4	0	999.0	999.0
713*	18.2158	72.4242	0.129	0.1172	-0.361	F 7	5	32.5	46.0
715	18.2716	-1.5100	0.054	0.0110	-0.210	K 5	5	-53.3	-36.2
716	18.2823	-18.5630	0.078	-0.0099	-0.198	K 3	5	-46.5	-27.5
717	18.3042	-11.4018	0.054	-0.0210	-0.270	M 0	5	-83.7	-65.3
9628	18.3044	-6.5554	0.040	-0.0100	-0.690	K 6	0	999.0	999.0
718	18.3112	22.1654	0.072	-0.0140	-0.460	K 4	5	36.5	55.7
721	18.3515	38.4412	0.124	0.0171	0.281	A 0	5	-13.9	5.2
9631	18.3619	28.5312	0.042	+0.0030	-0.470	G 5	5	27.9	47.2
9632*	18.3628	42.3712	0.044	0.0259	0.065	K 0	5	32.0	50.9
723	18.3732	-10.3010	0.066	-0.0110	-0.540	M 0	0	999.0	999.0
724	18.3808	-13.2506	0.055	-0.0040	-0.660	M 0	0	999.0	999.0
9634	18.4305	49.4648	0.049	+0.0106	-0.008	K 0	0	-28.0	-18.3
9635*	18.4331	20.2948	0.049	-0.0010	-0.338	F 6	5	23.7	42.7
726	18.4450	-3.4130	0.075	-0.0090	-0.270	M 0	5	17.7	34.9
727*	18.4607	10.4142	0.059	0.0094	-0.442	K 4	5	-17.9	0.2
728	18.4640	17.2312	0.061	-0.0295	-0.405	M 1	5	-16.7	2.0
730	18.4731	9.0206	0.066	-0.0090	-0.450	M 2	5	4.0	21.0
731*	18.4938	16.3140	0.079	-0.0180	-0.430	M 2	5	-11.0	7.6
734*	18.5233	10.5436	0.054	0.0050	0.040	M 0	5	-16.3	1.2
735*	18.5303	8.2010	0.092	0.0070	-0.060	M 2	0	-3.0	14.7
736	18.5312	4.1206	0.067	-0.0008	-0.086	K 0	5	-18.4	35.5
740	18.5534	5.5124	0.085	-0.0140	-1.221	M 2	5	18.8	66.1
9639*	18.5655	30.0630	0.041	0.0039	0.194	G 0	5	-39.5	-20.4
9640*	19.0010	-0.4700	0.054	0.0013	-0.016	G 6	5	-11.7	4.3
741	19.0029	-13.3806	0.071	-0.0390	-0.490	M 5	0	999.0	999.0
742	19.0039	70.3506	0.062	0.0190	0.520	A 0	9	999.0	999.0
743	19.0300	22.5948	0.057	0.0160	0.240	G 9	0	999.0	999.0
9644	19.0629	-14.4924	0.048	0.0120	-0.460	K 0	0	999.0	999.0
9645	19.0704	35.5848	0.055	-0.0055	0.063	K 6	5	13.0	31.9
748	19.0938	2.4830	0.093	0.1190	-0.490	M 4	5	-40.0	-23.4
9649*	19.1101	76.2842	0.046	0.0134	-0.121	F 2	5	-4.0	9.2
9650	19.1117	57.3500	0.041	0.0262	0.398	G 9	4	-23.9	+7.1
751	19.1314	24.4818	0.044	0.0220	0.200	M 0	5	-52.0	+33.3
9654	19.1753	37.1424	0.041	-0.0060	-0.189	G 8	5	1.5	20.1
756	19.1949	28.3400	0.055	0.0640	0.250	M 1	5	999.0	999.0
758	19.2141	33.0718	0.057	0.0064	0.164	K 0	5	-20.5	-1.9
759*	19.2235	11.5012	0.060	0.0490	0.636	G 0	4	-998.0	-980.5
9656	19.2503	49.2124	0.043	0.0470	0.700	K 1	5	-65.9	-48.2

STAR#	RA(1950) HH.MMSS	DEC(1950) DD.MMSS	PAR. ARCSEC	PM(RA) SECTIME	PM(DEC) ARCSEC	SP	LUM CLASS	VHEL KM/S	VLSR KM/S
9658	19.2726	31.3036	0.049	-0.0010	-0.419	G 5	5	-11.8	6.7
9659	19.2912	-6.3706	0.042	-0.0092	-0.143	G 0	0	999.0	999.0
9660	19.3004	0.2812	0.048	0.0100	0.050	M 0	5	-39.0	-23.3
9661*	19.3139	7.1618	0.041	0.0142	-0.157	K 3	3	-23.9	-7.2
763	19.3209	4.2806	0.078	0.0340	0.310	M 1	5	-51.6	-35.3
764	19.3228	69.3436	0.176	0.1099	-1.745	K 0	5	26.7	41.2
9665	19.4040	76.1812	0.050	0.0416	0.137	K 0	5	-8.7	4.4
9666*	19.4042	-15.3518	0.044	0.0103	-0.181	F 6	4	12.8	30.2
9667	19.4102	9.5806	0.040	0.0230	0.160	M 0	5	-7.1	9.7
9668	19.4216	57.5348	0.045	0.0167	-0.062	F 8	0	-21.6	-5.2
768*	19.4821	8.4406	0.196	0.0361	0.383	A 7	4	-26.3	-9.9
9672	19.5233	3.5600	0.041	-0.0210	-0.230	K 3	5	50.0	65.6
772*	19.5356	-1.1000	0.092	-0.0310	-0.700	A 0	9	81.0	96.1
9674*	19.5430	51.0806	0.046	0.0460	0.370	M 2	0	999.0	999.0
773	19.5433	-12.4142	0.060	-0.0060	-0.510	M 1	5	3.1	19.7
9675	19.5507	-15.3720	0.052	0.0009	-0.093	A 2	4	3.2	20.1
9676*	19.5513	29.4106	0.047	0.0060	0.250	K 0	5	-29.7	-12.0
9678	19.5704	-10.0524	0.040	-0.0188	-0.398	G 0	5	23.1	39.3
9681	20.0017	15.2736	0.049	-0.0111	-0.591	G 3	5	11.5	28.2
775*	20.0017	3.1100	0.071	-0.0063	0.113	K 4	5	-31.3	-16.1
777*	20.0123	29.4354	0.087	0.0570	-0.540	M 6	0	999.0	999.0
9683*	20.0134	29.4542	0.046	0.0519	-0.530	G 6	4	-46.2	-28.7
778*	20.0147	23.1242	0.051	-0.0737	-0.918	K 1	5	-2.6	14.7
779	20.0151	16.5600	0.058	-0.0280	-0.415	G 1	5	4.2	21.0
9684	20.0213	-13.3512	0.042	0.0086	0.034	M 0	5	999.0	999.0
9685*	20.0320	38.2000	0.044	0.0217	0.106	G 5	0	-24.2	-6.3
9687	20.0648	-14.2600	0.047	0.0076	-0.048	K 3	5	-13.6	2.8
9689	20.1130	13.1412	0.071	0.0300	0.040	O 0	0	999.0	999.0
786	20.1224	77.0448	0.072	0.0278	0.510	M 0	5	-2.0	10.6
9690	20.1411	42.4930	0.046	0.0012	-0.061	M 0	5	999.0	999.0
788	20.1702	66.4136	0.067	0.0786	0.298	G 5	5	-4.7	9.8
9693	20.1838	-6.3524	0.049	0.0130	-0.490	K 0	0	999.0	999.0
9698	20.2933	33.3618	0.055	0.0123	0.007	K 3	5	-24.6	-8.0
792	20.2935	38.2254	0.066	0.0200	0.710	M 6	0	999.0	999.0
793*	20.2950	65.1636	0.127	0.0710	0.280	M 3	5	24.0	38.5
9702*	20.3647	38.2742	0.048	0.0156	-0.190	G 2	5	-20.6	-4.3
9705	20.4103	35.1918	0.040	-0.0260	-0.590	M 2	5	42.0	36.2
802*	20.4152	55.0848	0.073	0.0770	1.750	M 5	5	-23.0	-7.7
804*	20.4206	19.3430	0.062	0.0010	-0.570	M 2	5	9.0	24.4
806	20.4318	44.1842	0.085	0.0400	0.270	M 3	5	-15.0	1.0
9706	20.4407	57.2400	0.042	-0.0082	-0.232	F 8	4	-31.4	-16.3
807*	20.4416	61.3836	0.073	0.0127	0.820	K 0	4	-87.3	-72.7
9710	20.5204	74.3454	0.044	0.1017	0.562	G 8	5	-29.9	-17.2
9711	20.5404	-10.0736	0.044	-0.0130	-1.120	M 3	5	51.0	64.9
813	20.5509	22.1024	0.078	0.0630	-0.120	M 3	0	999.0	999.0
814*	20.5659	0.5206	0.054	0.0144	0.114	G 4	5	-19.7	-7.4
9715	20.5905	-0.3954	0.044	0.0120	-0.160	M 0	5	999.0	999.0
816	20.5920	-6.3036	0.032	-0.0150	-0.460	M 3	0	999.0	999.0
817	21.0209	-17.0748	0.056	-0.0690	-2.070	M 3	0	999.0	999.0
818	21.0251	6.5236	0.050	0.0052	-0.563	K 6	5	-62.9	-50.0
821	21.0630	-13.2842	0.093	0.0490	-1.960	M 3	0	999.0	999.0
9723	21.0701	46.5718	0.040	0.0450	-0.220	K 3	0	999.0	999.0
9725	21.0834	80.3518	0.041	0.1120	0.150	K 5	0	999.0	999.0
9727	21.1040	15.3612	0.051	-0.0050	-0.210	M 0	0	4.9	18.5
823	21.1357	62.3742	0.066	0.0200	0.280	G 5	0	999.0	999.0

STAR#	RA(1950) HH.MMSS	DEC(1950) DD.MMSS	PAR. ARCSEC	PM(RA) SECTIME	PM(DEC) ARCSEC	SP	LUM CLASS	WHEL KM/S	VLSR KM/S
824	21.1405	9.1186	0.068	0.0120	-0.130	K 8	5	-13.7	-1.1
9731	21.1528	-0.0248	0.046	0.0300	-0.180	K 6	5	-26.4	-15.2
826	21.1723	62.2224	0.064	0.0212	0.050	A 7	4	-10.7	3.0
9739	21.2411	3.3112	0.052	-0.0050	-0.060	M 1	5	2.0	13.3
9740	21.2438	-7.0324	0.053	0.0020	-0.410	M 0	0	999.0	999.0
9741	21.2451	55.0024	0.058	0.0230	0.220	A 0	9	999.0	999.0
9742	21.2545	10.2330	0.051	0.0084	0.020	K 0	0	999.0	999.0
9743*	21.2643	73.2554	0.045	0.0100	-0.320	A 0	9	8.0	20.3
829*	21.2713	17.2506	0.154	0.0700	0.380	M 4	5	1.0	13.9
830	21.2716	-12.4336	0.061	0.0698	-0.265	M 0	5	-86.7	-74.3
831*	21.2834	-10.0036	0.134	0.0790	-0.080	M 4	5	999.0	999.0
835*	21.3545	27.2954	0.071	0.0320	-0.020	M 0	5	-13.3	0.1
9746	21.3622	82.4936	0.051	0.1660	0.560	A 0	9	999.0	999.0
9747	21.3847	53.4636	0.044	0.0600	0.140	M 4	0	999.0	999.0
9749	21.3925	-12.2300	0.046	-0.0030	-0.660	M 2	0	999.0	999.0
9751*	21.4207	14.3236	0.066	0.0180	-0.092	G 0	5	-18.9	-7.2
9752	21.4230	41.2200	0.051	-0.0040	0.060	K 6	5	-21.0	-7.4
9755*	21.4458	-7.5806	0.052	0.0240	-0.160	B 0	4	26.0	30.7
9757	21.4706	-11.5454	0.043	-0.0140	-0.480	K 5	0	999.0	999.0
9758	21.4840	74.4554	0.041	0.0280	0.151	K 0	0	999.0	999.0
9759	21.4905	0.3654	0.040	0.0202	-0.052	K 1	0	-28.5	-19.2
9761	21.5034	-13.4718	0.047	0.0211	0.012	F 0	5	-21.5	-10.3
839	21.5155	41.3248	0.041	0.0340	-0.360	M 2	5	-35.0	-21.8
840*	21.5233	32.0542	0.043	0.0160	-0.250	K 0	5	-15.9	-3.1
9763	21.5642	-4.1936	0.043	0.0050	-0.450	M 2	0	999.0	999.0
9764	21.5758	75.2054	0.056	0.0580	0.020	M 0	5	-11.0	0.6
843	21.5912	-19.4330	0.079	0.0650	0.030	M 0	0	999.0	999.0
844	21.5924	6.1324	0.071	0.0230	0.140	M 4	0	999.0	999.0
846	21.5939	1.0942	0.105	-0.0310	-0.260	K 8	5	20.3	29.0
9769	22.0652	-7.4718	0.047	0.0055	-0.444	G 9	5	-24.1	-14.8
849	22.0700	-4.5312	0.112	0.0720	-0.010	M 3	5	-12.0	-0.1
9771	22.0741	5.5706	0.044	0.0182	0.030	A 2	5	-8.0	1.0
850	22.0901	36.0048	0.050	0.0020	-0.238	K 0	5	-19.8	-7.7
851*	22.0905	18.1036	0.061	0.0230	0.200	M 2	5	-42.0	-31.4
9772*	22.0953	31.1912	0.046	-0.0240	-0.340	M 0	5	16.0	27.8
9773	22.1006	8.1848	0.043	0.0090	-0.720	M 3	0	999.0	999.0
9775	22.1145	-8.5812	0.042	-0.0120	-0.660	K 2	5	-18.0	-8.0
9776	22.1213	56.5218	0.040	0.0130	0.040	K 0	0	999.0	999.0
9777	22.1445	12.3848	0.042	0.0577	0.099	G 2	5	-29.9	-20.4
9778	22.1453	15.0636	0.053	0.0150	-0.060	O 0	0	999.0	999.0
854*	22.1508	68.0524	0.047	0.0657	-0.004	K 6	0	-7.0	4.0
9784	22.2621	18.4836	0.044	0.0130	-0.080	M 0	5	999.0	999.0
9786	22.2841	-6.4836	0.046	0.0112	-0.102	F 0	0	-13.8	-6.1
863	22.3031	9.0706	0.054	0.0360	0.150	M 0	0	9.0	16.9
864*	22.3333	-1.0530	0.066	0.0050	-0.550	M 1	5	21.0	27.5
866*	22.3545	-15.3530	0.305	0.1600	2.200	M 6	5	-60.0	-51.5
870	22.3818	42.4512	0.043	0.0080	-0.130	K 8	5	-34.7	-23.7
9793	22.3849	18.3242	0.044	0.0198	0.048	M 0	5	999.0	999.0
9794	22.4411	49.5648	0.047	0.0230	0.000	K 0	0	-51.2	-40.2
avg 873*	22.4440	44.0436	0.195	-0.0650	-0.450	M 5	5	-1.5	9.2
9795	22.4446	18.0712	0.046	0.0170	-0.090	K 0	5	-19.8	-11.5
875*	22.4743	-7.2124	0.064	-0.0080	0.120	M 1	5	-8.0	-1.5
9798	22.4856	13.4206	0.043	0.0281	0.211	K 4	5	-1.7	5.7
9799*	22.4930	31.2924	0.044	0.0400	-0.050	M 3	5	0.0	9.5
876	22.5035	-14.0112	0.209	0.0640	-0.620	M 5	5	8.7	16.1

STAR#	RA(1950) HH. MMSS	DEC(1950) DD. MMSS	PAR. ARCSEC	PM(RA) SECTIME	PM(DEC) ARCSEC	SP	LUM CLASS	VHEL KM/S	VLSR KM/S
878	22.5225	68.4324	0.072	-0.0900	-0.100	M 4	0	999.0	999.0
882	22.5500	20.3000	0.073	0.0142	0.059	G 4	5	-31.2	-23.0
883	22.5716	-11.0854	0.055	0.0140	-0.060	M 2	5	-20.0	-13.5
9805	23.0001	5.2336	0.042	0.0052	-0.075	M 0	5	999.0	999.0
9808	23.0300	68.0842	0.040	0.1075	0.166	G 6	5	-18.2	-7.6
9809	23.0401	63.0842	0.045	0.0246	-0.059	M 0	5	999.0	999.0
9810	23.0532	3.0318	0.068	0.0320	0.320	M 0	5	999.0	999.0
890*	23.0541	-15.4048	0.050	0.0040	0.010	M 0	5	2.0	8.5
892*	23.1052	56.5330	0.147	0.2529	0.299	K 3	5	-17.8	-7.7
9814	23.1151	-6.4906	0.076	-0.0190	-0.130	A 0	0	999.0	999.0
9817	23.1411	19.2100	0.048	-0.0150	-0.190	M 0	5	999.0	999.0
9820	23.1556	46.0048	0.048	0.0400	0.120	M 1	0	999.0	999.0
9822	23.1728	28.3542	0.041	0.0566	-0.062	K 1	5	-51.0	-43.6
9823	23.1911	43.4912	0.055	0.0589	0.221	K 1	5	1.6	10.5
9824	23.2027	-11.0236	0.060	0.0297	0.259	K 2	5	35.3	40.7
895*	23.2214	57.3500	0.085	-0.0010	-0.320	M 2	5	-5.0	4.7
9826	23.2326	28.5524	0.040	0.0280	-0.360	K 3	0	999.0	999.0
9827	23.2430	-1.3354	0.043	0.0260	0.210	M 0	5	27.0	29.9
9829	23.2656	-4.2136	0.043	0.0113	-0.185	G 0	5	-11.1	-8.0
898*	23.3012	-17.0706	0.087	0.0210	-0.230	K 5	5	1.2	6.2
9830	23.3057	42.3406	0.041	0.0212	0.177	G 0	0	999.0	999.0
899	23.3133	-0.0506	0.080	-0.0710	-0.920	M 4	0	999.0	999.0
900*	23.3226	1.1942	0.060	0.0230	0.040	M 1	5	-4.4	-2.1
903*	23.3717	77.2112	0.065	-0.0199	0.154	K 1	4	-42.4	-32.5
904	23.3723	5.2118	0.071	0.0248	-0.435	F 7	5	5.0	7.6
905*	23.3927	43.5512	0.318	0.0100	-1.600	M 6	5	-81.0	-73.1
9835	23.3937	-2.5106	0.046	-0.0140	-0.420	M 0	5	25.0	27.0
9837	23.4020	0.3906	0.052	-0.0030	-0.330	M 5	0	999.0	999.0
906	23.4318	35.5836	0.055	0.0270	0.040	M 0	5	-8.0	-1.2
907	23.4530	48.4406	0.077	0.0580	-0.060	M 1	0	999.0	999.0
9839*	23.4550	-13.1554	0.043	0.0140	0.051	K 8	5	-4.2	-0.9
908*	23.4636	2.0812	0.174	0.0654	-0.962	M 2	5	-64.6	-63.2
9840	23.4657	35.2318	0.047	0.0250	-0.090	K 8	5	-14.3	-7.8
9841	23.4755	30.0430	0.049	0.0190	0.000	K 8	5	-5.6	0.1
9842	23.4822	19.4000	0.050	0.0620	-0.140	M 5	0	999.0	999.0
9843	23.4932	77.1924	0.040	0.0805	-0.088	F 5	5	0.8	10.5
9844	23.5004	-6.1618	0.045	0.0310	-0.020	K 0	0	999.0	999.0
910*	23.5036	28.4424	0.060	-0.0110	0.050	M 0	5	0.2	5.5
912	23.5307	-6.2454	0.063	-0.0330	-0.350	M 0	0	999.0	999.0
913*	23.5607	46.2700	0.060	0.0545	-0.031	M 0	5	4.5	11.8
9846	23.5740	-4.2018	0.040	-0.0091	0.030	M 0	5	999.0	999.0
9847	23.5852	-17.1318	0.044	0.0190	-0.190	M 0	5	8.0	11.0
9848	23.5922	25.4400	0.041	-0.0220	-0.610	K 3	0	999.0	999.0

868 STARS IN LIST