PHOTOELECTRIC MAGNITUDES AND COLOURS FOR BRIGHT SOUTHERN STARS

P.M. Corben

The accompaying table gives magnitudes and colours for 590 southern stars, measured with a photoelectric photometer on the Astrographic refractor, 583 of them being in the "Yale Bright Star Catalogue", the remaining 7 in the FK4.

This is the tenth list of a series and virtually completes the programme that was commenced in 1957 to measure all the stars in the Revised Harvard Photometry between -4° and -64° in declination. There are about twenty stars that still require some observations and a few others that fall within the above limits but could not be observed with the Cape Astrographic refractor for one reason or another. The circumpolar and equatorial stars outside these limits have been observed (in the UBV system) with the 18-inch reflector so there are now very few bright stars south of +10° declination for which V, B-V and either $(U-B)_c$ or U-B are not now available.

The observations have been obtained and reduced in the same way as for previous lists **((1) - (7))**. Each star has been observed at least four times and if the internal standard error of a quantity exceeds $0^m.01$ the range of the observations is given in the notes at the end of the table. The 52 stars, marked "64" in the "Notes" column of the table, have had earlier V and B-V observations published in ROB 64 and were re-observed in this programme to obtain three-colour photometry. There is a zero point difference of $0^m.003$ between the old and new determinations of V. This change reflects the fact that these observations are based on the system of the Cape Mimeogram of 1967 **(8)** which was adjusted by $0^m.005$ in V relative to ROB 64 to put it closer to the Johnson system. There is also a $0^m.002$ change in the zero point of B-V between the two series. The standard errors of the differences between the two series are $0^m.014$ in V and $0^m.013$ in B-V. Suspected variables have been excluded from these means. In any case where the difference exceeds $0^m.02$ it is given in the notes at the end of the table.

A "D" in the last column of the table indicates that the star has one or more faint companions and that the observed magnitude and colour might be affected, (i.e. Δ m less than about six magnitudes); "SB" denotes a spectroscopic binary; "S" indicates that the star is noted as a suspected variable in the GCVS but that this is not confirmed by the current observations; "V" denotes a variable star; "N" calls attention to a note and "64" indicates that results from previous observations of the star appeared in ROB 64.

HR	HD	(1950)			Spectrum HD	Spectrum Other	V	B-V	$(U-B)_c$	Notes
		h m								
173	3795	00 38.0	-24°	04'	K0	dG3	6.13	+0.72	1.75	64
218	4585	00 45.2	-18	20	K0	gK3	5.70	+1.30	2.39	
220	4622	00 45.5	-22	00	B9	B9V	5.56	-0.06	1.44	64
315	6482	01 03.1	-10	15	G5	K0 III	6.09	+1.01	2.11	
329	6706	01 05.2	-10	03	F2	dF3	5.71	+0.44	1.59	
332	6793	01 05.3	-62	03	K0	G5 III	5.33	+0.89	1.94	N 64
421	8829	01 24.4	-13	19	F0	F1 V	5.50	+0.32	1.57	S
425	8921	01 25.3	-11	10	K0		6.13	+1.32	2.36	D
492	10453	01 39.3	-11	34	F5	dF2+dF3	5.74	+0.44	1.57	D
506	10647	01 40.6	-54	00	G0	sgG0	5.54	+0.54	1.63	
532	11183	01 47.1	-31	19	K0		6.36	+1.22	2.31	
625	13215	02 06.4	-18	01	Ma	M1	6.06	+1.66	2.56	?VN
632	13336	02 07.2	-43	45	K0	gK2	5.84	+1.20	2.24	
692	14691	02 19.6	-11	00	F0	A8n	5.41	+0.38	1.59	
700	14890	02 21.0	-37	48	K2		6.50	+1.63	2.58	64
703	14988	02 22.1	-26	04	K0		6.44	+1.32	2.42	
713	15220	02 24.3	-20	16	K0	gK2	5.88	+1.24	2.34	64
727	15471	02 26.4	-31	20	G5		6.10	+1.10	2.19	
735	15652	02 28.3	-22	46	K5	gM1	6.16	+1.57	2.60	N
755	16170	02 32.2	-51	19	F5	dF6	6.26	+0.50	1.64	
796	16825	02 39.2	-14	46	F5	dF7	5.97	+0.42	1.57	
871	18265	02 52.5	-51	05	K0		6.21	+1.56	2.58	
884	18466	02 55.1	-30	03	A5	Ap	6.29	+0.47	1.68	
977	20234	03 11.3	-57	30	Na	Na	5.70	+2.63	2.8	?VN 64
1004	20729	03 17.4	-24	18	Ma	gM2	5.62	+1.63	2.53	N 64
1288	26326	04 07.0	-16	31	B3	B3V	5.44	-0.15	1.26	
1372	27657	04 17.1	-63	23	B9		5.87	-0.07	1.38	SD
1374	27710	04 19.4	-25	50	F0	dF2	6.00	+0.39	1.58	?VNS 64
1416	28413	04 24.4	-61	21	K5		5.94	+1.53	2.57	64
1447	28970	04 31.0	-10	53	K0		6.06	+1.38	2.38	
1475	29399	04 33.1	-62	56	K0		5.77	+1.03	2.13	SD
1498	29805	04 37.8	-51	46	K0		6.44	+1.32	2.40	
1635	32515	05 00.5	-31	51	K0	G8 III	5.93	+1.17	2.26	64
1715	34167	05 12.0	-35	53	K0		6.98	+1.47	2.52	SN
1727	34347	05 12.7	-52	05	K5		6.03	+1.40	2.46	64
1793	35515	05 21.8	-39	43	Ma	gM1	5.8	+1.63	2.52	VN64
1817	35850	05 24.7	-11	56	F5	dF7	6.30	+0.54	1.65	
1836	36189	05 25.6	-58	57	G5		5.13	+0.99	2.06	64
1888	36965	05 31.9	-29	53	A0		6.53	-0.02	1.46	
1926	37430	05 35.3	-27	54	A5		6.14	+0.34	1.57	
1930	37462	05 34.3	-58	54	K2		6.69	+1.52	2.54	
1966	38056	05 39.6	-33	25	A0		6.34	-0.04	1.46	
2005	38804	05 45.1	-28	39	B8	B7	6.22	-0.15	1.28	
2021	39070	05 47.3	-14	30	G5	gG6	5.50	+0.86	1.93	D64
2023	39110	05 46.2	-54	23	K5		6.19	+1.41	2.38	64
2043	39543	05 50.1	-29	28	K0		6.47	+1.46	2.52	N64
2065	39853	05 52.4	-11	47	K2	K5 III	5.61	+1.54	2.53	
2069	39901	05 51.9	-42	56	K0		6.55	+1.37	2.46	
2166	41933	06 04.8	-21	48	Mb	M4	5.72	+1.65	2.46	?VN
2203	42682	06 08.6	-40	21	Ma	M1	5.58	+1.68	2.52	N
2278	44267	06 16.7	-52	43	K0		6.38	+1.46	2.45	64
2284	44458	06 19.1	-11	45	B2p	B1 Vpe	5.53	+0.02	1.19	?VN
2316	45145	06 22.3	-36	41	G5		5.60	+1.02	2.10	D64
2337	45461	06 22.7	-63	39	Ma	M1	6.28	+1.62	2.51	
2353	45680	06 25.4	-37	52	F0		6.48	+0.39	1.57	

HR	HD	(1950)			Spectrum HD	Spectrum Other	V	B-V	$(U-B)_c$	Notes
		h	m	° '						
2379	46184	06	29.1	-12 21	K0	K3 III	5.15	+1.27	2.36	
2513	49396	06	44.3	-52 09	G5		6.57	+1.08	2.11	
2583	50896	06	52.1	-23 52	Ob	WN5	6.84	-0.26	1.34	?VN
2664	53629	07	02.7	-21 57	K0		6.08	+1.23	2.34	
2686	54173	07	04.8	-24 53	K2		6.06	+1.34	2.43	
2688	54224	07	05.0	-26 35	B3	B1 V	6.60	-0.18	1.23	
2690	54309	07	05.3	-23 46	B3p	B1 ?Ve	5.83	-0.14	1.16	?VN
2695	54669	07	06.7	-23 58	B3	B3 V	6.64	-0.18	1.20	
2704	54912	07	07.7	-25 09	B3		5.71	-0.16	1.21	
2716	55344	07	09.5	-20 48	A0		5.83	-0.04	1.45	
2741	55958	07	11.9	-31 00	B3		6.57	-0.16	1.23	N64
2743	55985	07	12.0	-30 15	B3	B4	6.32	-0.18	1.20	SB
2752	56207	07	13.4	-10 30	K0		5.94	+1.17	2.28	
2758	56405	07	14.0	-15 30	A2		5.44	+0.08	1.56	
2794	57299	07	17.4	-33 38	K0		6.30	+1.31	2.39	
2802	57615	07	19.0	-25 48	Ma	gM4	5.84	+1.62	2.52	
2831	58439	07	22.6	-18 55	A3	A2 Ib	6.24	+0.29	1.46	
2855	58978	07	24.9	-22 59	B2p	B0 IV?pe	5.62	-0.12	1.12	?VN
2860	59136	07	25.6	-22 45	B8		5.98	-0.09	1.34	
2870 2871	59499	07	26.9	-31 45	B3	B3 + B3n	5.94	-0.17	1.25	D
2897	60325	07	31.1	-14 14	B5	B1 V	6.22	-0.05	1.21	
2902	60414	07	31.5	-14 25	K5	M2 Iabep+B	4.90	+1.42	1.73	SBN64
2917	60686	07	32.3	-39 48	K0		6.76	+1.13	2.20	
2925	61031	07	33.4	-51 22	A0		6.28	+0.08	1.49	
2928	61068	07	34.5	-19 35	B3	B2 III	5.71	-0.17	1.16	
2956	61672	07	37.4	-26 45	B8		6.50	-0.10	1.33	
2957	61715	07	36.9	-48 29	F5p	cF	5.70	+0.67	1.78	?VN
2960	61774	07	38.0	-19 33	K0		5.92	+1.16	2.22	D
2976	62082	07	39.2	-22 13	Ma	M1	6.16	+1.64	2.62	N
2984	62318	07	39.8	-44 31	B9		6.40	0.00	1.40	
2988	62412	07	40.7	-26 14	K0	gG8	5.63	+0.99	2.08	
2995	62595	07	41.4	-38 45	G5		6.89	+1.02	2.09	
3005	62756	07	41.7	-49 52	A0		6.57	+0.07	1.53	
3006	62758	07	41.3	-58 31	B8	B5 IV	6.43	-0.10	1.26	SB
3012	62897	07	41.9	-58 07	K0		6.22	+1.05	2.09	
3015	62952	07	43.6	-14 26	F0	A6n	5.03	+0.34	1.58	
3027	63323	07	45.5	-15 53	K2	M2 II-III	6.41	+1.79	2.58	?VN
3029	63336	07	45.6	-12 04	F5	dF5	5.47	+0.50	1.60	D
3032	63401	07	45.3	-39 12	B9		6.35	-0.17	1.29	N64
3042	63655	07	47.2	-13 14	B9		6.23	-0.08	1.30	
3049	63786	07	47.4	-35 07	A0		5.94	-0.07	1.44	
3054	63894	07	48.5	-11 00	K0		6.16	+1.13	2.22	
3056	63926	07	47.3	-56 21	K0	K0+A2	6.32	+1.01	1.84	D
3063	64077	07	49.3	-12 41	F2		6.37	+0.39	1.59	
3076	64320	07	49.1	-59 55	K0		6.73	+1.24	2.23	64
3092	64876	07	52.8	-34 43	K2		6.14	+1.54	2.59	
3146	66190	07	58.7	-45 19	K0		6.61	+1.27	2.29	
3157	66546	08	00.2	-54 23	B5	B4 V	6.02	-0.04	1.26	?VNSBD
3160	66598	08	01.1	-32 19	K2	gG8	5.80	+1.24	2.31	D
3279	70442	08	19.1	-19 55	G0	G2 III+A	5.58	+0.76	1.88	SBD64
3330	71510	08	24.1	-51 34	B3	B3n	5.17	-0.16	1.24	D
3341	71722	08	25.0	-52 39	A0		6.05	+0.06	1.55	
3529	75916	08	50.1	-13 03	K0		6.11	+1.14	2.25	D
4271	94776	10	53.3	-60 15	K0	gK0	5.93	+1.06	2.13	S64

HR	HD	(1950)			Spectrum HD	Spectrum Other	V	B-V	$(U-B)_c$	Notes
		h	m							
4393	98892	11	20.0	-44° 22'	G5		6.12	+0.93	2.02	
4411	99333	11	23.1	-37 28	Ma	gM3	5.90	+1.54	2.44	D
4532	102620	11	46.2	-26 28	Mb	M4 III	5.12	+1.59	2.41	?VN
4590	104337	11	58.3	-19 23	B3	B1.5 V	5.26	-0.20	1.18	
4622	105437	12	05.8	-60 34	K2		6.20	+1.72	2.56	N64
4661	106612	12	13.2	-23 05	F5		6.53	+0.47	1.61	D
4739	108396	12	24.7	-58 43	Mb	gM4	5.4	+1.54	2.35	VN
4742	108477	12	25.2	-16 21	G5	gG4	6.29	+0.88	1.95	
4749	108570	12	25.8	-56 08	K0	dG8	6.14	+0.92	2.00	64
4754	108732	12	47.1	-56 15	Ma	gM0	5.79	+1.57	2.55	N64
4759	108821	12	27.7	-23 25	K5	gM0	5.64	+1.66	2.59	S
4779	109272	12	31.0	-12 33	G5	G8 III	5.59	+0.86	1.91	
4908	112244	12	53.0	-56 34	Oe5	cO9.5	5.36	+0.03	1.16	D
4911	112304	12	53.3	-15 03	A0		6.17	0.00	1.46	
4981	114642	13	09.4	-15 56	F2	F6 IV	5.06	+0.46	1.59	
4990	144846	13	10.8	-18 34	A0		6.25	+0.08	1.50	SBD
4995	114946	13	11.5	-19 40	G5	dG6	5.33	+0.87	1.91	
5001	115202	13	13.3	-19 41	K0	K1 IV	5.24	+1.02	2.10	N64
5026	115823	13	17.6	-52 29	B3	B5 III	5.46	-0.14	1.31	?VN
5029	115912	13	18.0	-46 37	K0		5.76	+1.10	2.19	64
5036	116084	13	19.2	-51 55	B0	B1	5.83	+0.11	1.23	
5038	116197	13	19.9	-47 41	A2		6.16	+0.18	1.57	D
5039	116226	13	20.0	-48 18	B5	B7 IV	6.37	-0.08	1.29	
5043	116278	13	20.3	-32 56	Ma	M1	6.17	+1.64	2.55	?VN
5094	117661	13	29.3	-18 28	A3	A4m	5.99	+0.20	1.60	D
5099	117789	13	30.2	-15 06	K0	gK2	5.53	+1.22	2.26	
5120	118349	13	34.0	-26 15	A2	A3	5.38	+0.23	1.59	D
5122	118384	13	34.8	-58 10	K0	gG8	6.41	+1.11	2.16	D64
5135	118781	13	36.7	-39 30	Mb	M4	6.27	+1.65	2.46	?VN
5136	118799	13	36.9	-39 48	K0		5.60	+1.30	2.37	
5151	119159	13	39.6	-56 31	B2	B2 IV	6.00	-0.08	1.15	
5152	119193	13	39.8	-50 32	K0		6.41	+1.67	2.63	
5166	119623	13	42.0	-25 15	K0	K0	6.21	+1.38	2.44	
5181	120052	13	44.7	-17 37	Ma	M1 III	5.44	+1.62	2.56	?VN
5196	120452	13	47.1	-17 53	K0	K1 III	4.97	+1.06	2.13	
5202	120544	13	47.8	-19 39	F8		6.53	+0.51	1.63	
5222	120987	13	50.6	-35 25	F2	dF6	5.53	+0.44	1.57	D
5237	121397	13	52.9	-31 02	K0		6.51	+0.90	1.95	
5246	121699	13	54.7	-22 47	K0		6.14	+1.43	2.46	
5250	121847	13	55.7	-24 44	B8		5.21	-0.08	1.34	SB
5251	121853	13	56.1	-50 08	K0		5.91	+0.96	2.01	
5257	122066	13	57.2	-24 46	F0	F3 V	5.77	+0.48	1.61	
5265	122430	13	59.5	-27 11	K0	gK3	5.47	+1.33	2.39	
5277	122837	14	01.7	-14 44	K0	G6 III	6.34	+1.08	2.14	
5312	124206	14	09.9	-27 02	K0	gK3	5.08	+1.16	2.24	
5314	124281	14	10.4	-26 23	K0	gG7	6.24	+1.08	2.09	
5337	124780	14	13.3	-33 01	F0		6.56	+0.30	1.58	
5362	125383	14	17.0	-42 50	G5		5.55	+0.90	1.97	D
5428	127624	14	30.2	-30 30	K0		6.06	+1.04	2.08	D
5438	127964	14	32.0	-20 13	A0		6.48	+0.14	1.57	
5439	127971	14	32.4	-41 18	B8		5.87	-0.08	1.34	D
5446	128152	14	33.3	-39 23	K0	gG9	6.13	+1.05	2.09	
5456	128488	14	35.2	-38 35	K0		6.02	+1.43	2.47	
5474	129161	14	38.9	-30 43	B9		6.37	-0.09	1.33	D
5484	129433	14	40.3	-24 47	B9		5.68	0.00	1.46	

HR	HD	(1950)			Spectrum HD	Spectrum Other	V	B-V	$(U-B)_c$	Notes
		h	m							
5497	129926	14	43.1	-25° 14'	F5	dF1	4.92	+0.36	1.61	D
5498	129932	14	43.7	-52 00	A0		6.07	+0.09	1.48	D
5503	129978	14	43.2	-15 15	K0	gK2	6.33	+1.19	2.23	D
5504	129980	14	43.3	-20 58	G0	dF9	6.42	+0.62	1.70	D
5513	130157	14	44.4	-21 07	K2	gK5	6.04	+1.64	2.59	
5516	130259	14	44.8	-25 53	G5	G5 III	5.25	+0.95	2.00	
5517	130274	14	45.0	-26 26	B9	B9 V	5.77	0.00	1.44	
5518	130325	14	45.2	-12 38	G5		6.33	+1.10	2.14	
5521	130529	14	46.4	-24 03	K0	gK1	5.68	+1.30	2.26	
5523	130559	14	46.6	-13 57	A2p	Ap+Ap	5.32	+0.07	1.52	D
5542	131117	14	49.6	-30 22	G0	dG1	6.28	+0.60	1.69	64
5548	131430	14	51.4	-24 26	K0	gK2	5.26	+1.34	2.42	
5549	131432	14	51.6	-33 06	K0		5.82	+1.42	2.40	D
5554	131530	14	51.7	-11 42	K0	gG7	5.80	+0.99	2.06	
5558	131625	14	52.7	-33 39	A0		5.32	+0.04	1.51	
5560	131705	14	53.5	-51 15	Ma	M1	6.60	+1.69	2.60	
5561	131752	14	53.4	-39 13	A0		6.36	+0.06	1.52	
5562	131774	14	53.5	-32 26	K0		6.06	+1.41	2.46	
5565	131919	14	54.2	-28 57	B9		6.29	-0.02	1.42	
5568	131977	14	54.5	-21 11	K5	K5 V	5.64	+1.11	2.24	D
5572	132096	14	55.4	-39 42	K2	gK2	6.16	+1.21	2.30	
5577	132219	14	55.7	-27 27	A5	Am	5.65	+0.27	1.60	D
5579	132238	14	56.1	-37 41	B8		6.45	-0.08	1.36	
5587	132763	14	58.9	-34 10	A3	Am	6.20	+0.24	1.60	
5607	133340	15	02.1	-40 52	K0	gK0	5.15	+1.01	2.08	
5619	133652	15	03.5	-30 44	A0p	A0si	5.96	-0.08	1.34	
5620	133670	15	03.6	-21 50	K0	gK1	6.17	+1.05	2.10	?VN
5641	134373	15	07.4	-26 09	K0		5.76	+1.05	2.10	
5650	134597	15	09.0	-48 02	K0	gK2	6.32	+1.11	2.21	64
5658	135051	15	10.9	-26 00	K0	gG5	5.84	+1.14	2.14	D
5662	135230	15	11.7	-17 35	B9		6.18	-0.01	1.36	
5663	135235	15	12.4	-47 53	A2	Am?	5.96	+0.21	1.59	D
5667	135345	15	12.8	-41 18	F5	G5 Ia+B	5.16	+0.58	1.65	?D
5668	135348	15	12.8	-43 18	B5		6.04	-0.13	1.24	
5678	135534	15	13.5	-22 13	K2	gK5	5.51	+1.35	2.41	
5688	135896	15	15.6	-31 02	K0		6.18	+1.23	2.16	
5697	136347	15	18.3	-38 02	A0p	A0si	6.48	-0.06	1.39	D
5703	136407	15	18.3	-15 22	F5	A6n	6.13	+0.39	1.57	
5719	136933	15	21.5	-39 32	A0	A0si	5.37	-0.11	1.34	D
5720	136956	15	21.1	-12 12	K0	gG6	5.72	+1.04	2.09	
5736	137432	15	24.1	-36 36	B5	B5 V	5.44	-0.15	1.26	
5749	138105	15	27.7	-20 33	A2		6.20	+0.18	1.59	
5750	138137	15	27.8	-16 26	K0	gG6	5.82	+1.06	2.10	
5762	138413	15	29.7	-19 30	A2	Am	5.50	+0.16	1.59	
5764	138485	15	30.1	-16 41	B3	B2 Vnn	5.50	-0.14	1.20	SB
5765	138488	15	30.2	-24 19	A3		6.27	+0.23	1.58	D
5775	138688	15	31.6	-27 53	K0	gK4	5.10	+1.31	2.26	SB
5806	139254	15	34.9	-22 59	K0	gK0	5.80	+1.06	2.15	
5809	139290	15	35.2	-28 03	K2	gK1	6.32	+1.17	2.21	
5810	139329	15	35.4	-20 51	K0	gG9	5.84	+1.08	2.10	
5814	139446	15	36.0	-19 08	G5	G8 III	5.36	+0.89	1.92	
5819	139518	15	36.4	-22 59	A0		6.34	+0.02	1.51	
5822	139613	15	37.1	-31 03	K2		6.32	+1.40	2.48	
5824	139663	15	37.3	-23 39	K0	gK4	4.96	+1.32	2.41	
5847	140301	15	40.6	-14 53	K0	sgK0	6.29	+1.12	2.16	

HR	HD	(1950)			Spectrum HD	Spectrum Other	V	B-V	$(U-B)_c$	Notes
		h	m							
5890	141724	15	49.2	-50° 28'	K2		6.60	+1.53	2.49	
5907	142184	15	51.0	-23 50	B3	B2 Vnn	5.39	-0.02	1.28	
5912	142301	15	51.6	-25 06	B8	B7 IV?	5.88	-0.07	1.29	
5915	142378	15	52.1	-19 14	B5	B5 V?	5.94	-0.01	1.32	D
5927	142640	15	53.4	-14 15	F5	dF4	6.31	+0.48	1.62	
5934	142883	15	54.8	-20 50	B5	B3 ?V	5.85	+0.02	1.33	
5935	142889	15	55.2	-37 22	G5	gG9	6.31	+1.01	2.07	
5942	142990	15	55.6	-24 41	B8	B3 ?V	5.42	-0.10	1.26	
5945	143084	15	56.6	-40 31	K0		6.49	+1.52	2.33	S
5956	143404	15	58.2	-31 45	K0		6.33	+1.45	2.50	
5965	143619	15	59.6	-29 00	K0		6.03	+1.31	2.38	
5969	143787	16	00.3	-25 44	K0	gK5	4.96	+1.23	2.33	
5970	143790	16	00.4	-31 52	F5		6.01	+0.47	1.59	
5973	143900	16	00.9	-24 35	K2	K0	6.21	+1.38	2.45	
6001	144690	16	05.1	-26 12	Ma	gM2	5.37	+1.63	2.58	
6002	144708	16	04.8	-12 37	A0		5.74	+0.01	1.43	D
6003	144844	16	05.7	-23 33	B9	B9 V	5.87	+0.01	1.40	S
6006	144927	16	06.3	-32 31	G5	dG2	6.17	+0.79	1.86	D
6007	144987	16	06.7	-33 25	B8		5.51	-0.10	1.38	
6017	145250	16	07.9	-29 17	K0	gK3	5.10	+1.14	2.19	
6022	145384	16	09.4	-53 33	Ma	gM0	5.94	+1.95	2.74	?VN
6024	145397	16	09.5	-54 30	K0	G4 III	4.95	+1.02	2.07	
6042	145792	16	10.8	-24 18	B8	B7 IV	6.39	+0.02	1.34	D
6045	145842	16	11.6	-47 15	B8		5.13	-0.12	1.32	
6048	145897	16	11.1	-11 43	K0	K3 III	5.22	+1.37	2.41	
6051	145964	16	11.5	-20 59	A0		6.41	-0.01	1.43	
6053	145997	16	11.8	-18 25	K0	gK2	6.32	+1.09	2.16	
6055	146003	16	12.8	-53 41	Ma	gM2	5.47	+1.71	2.60	?VN
6061	146254	16	13.0	-14 44	A0		6.10	+0.10	1.48	S
6066	146416	16	14.0	-21 11	B9	B9.5 ?V	6.60	0.00	1.44	
6076	146834	16	16.2	-20 06	K0	K5 III	6.29	+1.07	2.05	
6078	146850	16	16.2	-14 45	K0	gK4	5.99	+1.52	2.38	SB
6085	147225	16	19.0	-43 48	G5		5.89	+1.15	2.08	D
6112	147933	16	22.6	-23 20	B5	B3 IV + B2 V	4.58	+0.23	1.30	D
6113	147934									
6120	148218	16	25.6	-57 39	K0		6.06	+1.48	2.33	
6140	148604	16	27.0	-14 27	G0	G2 III	5.68	+0.82	1.87	
6160	149174	16	31.5	-45 08	K0		6.46	+1.34	2.39	?VN
6167	149485	16	34.5	-60 53	B5	B8 V	6.18	-0.07	1.35	
6174	149711	16	34.9	-43 18	B3	B3 IV	5.82	-0.02	1.28	D
6187	150135	16	37.6	-48 40	Oe5	O7?	5.33	+0.17	1.21	D
	150136									
6190	150259	16	37.6	-20 19	K0	gG9	6.26	+1.08	2.14	
6202	150453	16	39.0	-19 50	F5	dF6	5.57	+0.43	1.55	
6206	150573	16	40.3	-41 02	A3		6.21	+0.14	1.56	
6207	150576	16	40.7	-53 04	K0		5.96	+1.26	2.19	
6209	150591	16	40.4	-41 01	B8		6.13	-0.08	1.30	
6215	150745	16	42.1	-58 25	B3		5.74	-0.09	1.24	
6216	150768	16	41.2	-27 22	A0		6.58	+0.10	1.56	D
6219	150898	16	43.1	-58 15	B0	B0 Iab	5.57	-0.07	1.13	
6221	151078	16	43.4	-39 17	K0	gG8	5.48	+0.98	2.04	
6225	151179	16	43.8	-25 26	K0	gG6	6.71	+1.18	2.18	
6235	151527	16	45.6	-14 49	A0		6.03	+0.20	1.50	
6240	151676	16	46.6	-15 35	A3		6.2	+0.23	1.57	?VN
6244	151771	16	47.6	-37 26	B9	Ap	6.10	+0.13	1.42	D

HR	HD	(1950)			Spectrum HD	Spectrum Other	V	B-V	$(U-B)_c$	Notes
		h	m							
6245	151804	16	48.1	-41° 09'	Oe	O8f	5.23	+0.08	1.19	
6249	151932	16	48.8	-41 46	Oc	WN7	6.48	+0.25	1.29	
6253	152082	16	50.7	-63 11	A0		6.02	+0.05	1.46	
6257	152161	16	50.2	-42 58	Mb	gM4	5.96	+1.73	2.40	?VN
6261	152235	16	50.5	-41 55	B0	B1 I	6.32	+0.51	1.35	
6262	152236	16	50.5	-42 17	B1p	B1 Iae	4.72	+0.48	1.32	?VN
6266	152293	16	50.9	-42 24	F5	gF4	5.85	+0.63	1.75	
6269	152311	16	50.5	-20 20	G5	dG3	5.88	+0.68	1.78	
6274	152478	16	52.3	-50 36	B3p	B3ne	6.31	+0.02	1.23	N64
6278	152585	16	51.9	-11 43	A0		6.57	+0.14	1.59	
6282	152636	16	52.7	-33 26	K2		6.34	+1.73	2.63	64
6284	152781	16	53.1	-16 44	K0	sgK2	6.34	+0.95	2.05	
6289	152824	16	54.4	-50 34	B9		5.54	+0.02	1.40	
6291	152849	16	53.8	-23 04	A0		5.58	-0.02	1.47	D
6294	152909	16	54.1	-19 28	B8		6.28	+0.07	1.37	D
6302	153229	16	55.8	-14 48	F2		6.47	+0.38	1.58	
6310	153363	16	57.1	-24 55	F0	dF4	5.75	+0.41	1.58	
6314	153580	16	59.1	-53 10	F8	dF7	5.29	+0.48	1.62	
6321	153727	16	58.9	-18 49	K0	gK0	6.30	+1.34	2.31	
6340	154204	17	01.8	-20 26	B3		6.30	-0.02	1.33	
6354	154481	17	03.8	-26 27	A0	A0 III-IV	6.28	-0.04	1.36	
6356	154555	17	05.5	-61 37	B9		6.39	-0.04	1.33	
6365	154779	17	05.3	-17 33	K0	K0 III	5.99	+1.01	2.06	
6374	155035	17	07.8	-48 49	Ma	gM1	5.92	+1.82	2.51	
6375	155078	17	07.0	-10 28	F5	F5 V	5.44	+0.46	1.60	
6382	155276	17	08.8	-38 46	K0	gK1	6.30	+1.05	2.16	
6384	155341	17	10.0	-56 50	K5		6.09	+1.78	2.25	
6386	155379	17	09.2	-25 12	A0		6.54	-0.04	1.42	
6387	155401	17	09.3	-27 42	B9		6.14	-0.04	1.38	
6397	155806	17	12.0	-33 30	Oe5p	O8e	5.53	+0.01	1.15	
6403	155940	17	12.7	-30 09	A0		6.21	-0.03	1.47	
6404	155970	17	12.5	-14 32	K0	K1 III	5.99	+1.10	2.19	D
6409	156098	17	13.8	-32 36	F5	dF6	5.55	+0.50	1.64	
6424	156349	17	15.0	-24 14	K0	K1 III+	4.92	+0.90	1.94	D
6425	156350					F6 IV-V				
6428	156462	17	15.4	-16 16	K5		6.32	+1.67	2.60	
6435	156717	17	17.0	-17 42	A0		6.02	+0.04	1.48	D
6440	156838	17	19.3	-62 49	B3	B2 V	5.70	-0.16	1.20	
6459	157236	17	20.2	-28 06	K2	gK5	5.31	+1.54	2.57	
6468	157457	17	22.1	-50 35	K0	K1 III	5.21	+1.05	2.10	64
6471	157524	17	23.4	-63 00	B9		6.22	-0.09	1.33	
6478	157662	17	23.3	-50 35	B9	A0	5.91	+0.08	1.42	
6483	157753	17	24.0	-52 15	K0	gK2	5.75	+1.17	2.22	
6487	157819	17	24.5	-55 08	K0	gG8	5.94	+1.11	2.14	
6496	157968	17	24.2	-12 28	F8	dF5	6.21	+0.51	1.64	
6513	158476	17	28.1	-46 00	G0	cF8	6.03	+0.83	1.89	D
6544	159358	17	32.0	-11 13	B8	B8 V	5.56	+0.01	1.42	
6562	159877	17	34.7	-15 33	A5		5.94	+0.37	1.62	
6568	160018	17	35.4	-10 54	K0	gK0	5.75	+1.23	2.26	
6587	160748	17	39.8	-33 02	Ma	M1	6.45	+1.79	2.56	
6593	160839	17	40.1	-27 52	A5		6.36	+0.47	1.64	
6613	161390	17	43.7	-38 06	B9		6.42	-0.02	1.46	D64
6617	161664	17	44.7	-22 28	K0		6.18	+1.49	2.26	
6620	161701	17	44.8	-14 43	B9		5.95	+0.01	1.38	
6621	161756	17	45.3	-26 58	B3	B3 IV	6.30	+0.13	1.33	

HR	HD	(1950)		Spectrum HD	Spectrum Other	V	B-V	$(U-B)_c$	Notes
		h m	° '						
6624	161814	17 47.1	-60 09	K0	gG8	5.78	+1.00	2.06	
6632	161917	17 47.1	-53 07	A0		6.10	+0.01	1.46	
6640	162123	17 48.0	-45 35	G5		6.11	+0.95	2.00	
6643	162189	17 48.0	-40 46	Ma	gM1	5.96	+1.56	2.52	
6645	162220	17 48.0	-30 33	A0		6.47	+0.04	1.46	D
6648	162391	17 49.0	-34 24	K0	gG8	5.87	+1.13	2.14	
6651	162496	17 49.5	-34 06	K0	gK1	6.06	+1.23	2.28	
6652	162515	17 49.6	-35 01	A0		6.56	0.00	1.44	
6658	162587	17 50.0	-34 53	K0	gG8	5.60	+1.10	2.14	D
6660	162678	17 50.4	-34 47	A0		5.96	+0.01	1.43	
6662	162724	17 50.6	-34 45	B9		5.98	0.00	1.44	SD
6666	162757	17 50.3	-10 53	G5	gK1	6.18	+1.11	2.17	
6668	162817	17 51.1	-34 27	A0		6.13	+0.05	1.47	
6671	162926	17 51.7	-36 28	A2	A0	6.06	+0.08	1.46	
6672	162978	17 51.8	-24 53	B2	O8	6.20	+0.04	1.17	
6678	163234	17 53.4	-40 18	K5		6.46	+1.40	2.50	
6679	163245	17 53.0	-18 48	A0		6.46	+0.06	1.55	
6680	163318	18 53.5	-28 04	A3		5.80	+0.21	1.59	
6681	163336	17 53.4	-15 48	A0		5.89	+0.05	1.53	D
6683	163433	17 54.5	-39 08	A0		6.29	+0.01	1.48	D
6692	163685	17 55.5	-28 45	B5	B3 IV	6.02	-0.08	1.27	
6704	164028	17 57.0	-20 20	K0	K0 II-III	6.21	+1.40	2.30	
6715	164358	17 58.5	-17 09	K2	K3 III	6.28	+1.80	2.49	
6716	164402	17 58.9	-22 47	B0	B0 Ib	5.75	0.00	1.15	
6760	165497	18 05.6	-59 03	K5		6.38	+1.55	2.56	
6762	165516	18 04.2	-21 27	B1	B0.5 Ib	6.25	+0.10	1.20	
6769	165687	18 04.9	-17 10	K0	K1 III	5.54	+1.12	2.20	
6773	165814	18 05.8	-25 29	B8	B8	6.6	0.00	1.32	VN
6785	166103	18 06.9	-13 57	K0		6.39	+1.42	2.38	
6796	166251	18 09.5	-63 42	K2		6.47	+1.41	2.50	
6798	166393	18 08.3	-19 51	A2		6.36	+0.16	1.56	D
6801	166464	18 08.7	-23 43	K0	gK0	4.98	+1.05	2.13	
6802	166469	18 08.8	-28 55	A0p	Ap	6.54	-0.01	1.44	
6805	166599	18 10.9	-63 04	K0		5.60	+0.92	1.99	
6816	167036	18 11.2	-21 44	K0	gK3	5.49	+1.52	2.49	N
6822	167264	18 12.2	-20 44	B0	B0 Ia	5.35	+0.04	1.17	
6823	167263	18 12.2	-20 24	B1	O9 II	5.97	+0.01	1.16	
6825	167356	18 12.6	-18 41	A2	A0 Ia	6.08	+0.20	1.35	D
6838	167720	18 14.3	-17 24	K5	K4 II-III	5.81	+1.56	2.50	
6848	168021	18 15.8	-18 38	B0	B0 Ib	6.45	+0.27	1.25	D
6858	168415	18 17.3	-15 51	K2	K4 III	5.39	+1.46	2.46	
6870	168733	18 19.5	-36 42	B8	Ap	5.37	-0.14	1.29	
6874	168838	18 20.1	-36 16	K0	gK0	5.55	+1.02	2.09	
6881	169033	18 20.4	-12 02	B8		5.73	+0.01	1.39	
6889	169236	18 22.0	-36 01	G5	gK0	6.15	+1.00	2.05	
6893	169398	18 22.6	-33 58	B8		6.32	-0.08	1.29	
6894	169405	18 23.1	-48 09	G5		5.46	+0.84	1.91	SSB
6907	169830	18 24.6	-29 51	G0		5.92	+0.52	1.64	
6908	169836	18 25.6	-57 33	K0	gG8	5.76	+0.98	2.05	
6909	169851	18 24.6	-26 40	A5		6.32	+0.26	1.59	D
6910	169853	18 25.0	-39 02	A2	A2m?	5.64	+0.13	1.59	
6914	169938	18 25.0	-26 47	A3		6.27	+0.16	1.57	
6915	169943	18 25.6	-43 53	K0		6.36	+0.90	1.95	
6922	170069	18 26.2	-47 15	K0		5.70	+1.26	2.30	
6926	170141	18 25.8	-26 37	A0		6.5	+0.11	1.53	?VN

HR	HD	(1950)			Spectrum HD	Spectrum Other	V	B-V	$(U-B)_c$	Notes
		h	m	° ′						
6929	170235	18	26.3	-25 17	B2p		6.62	+0.05	1.23	?VN
6931	170384	18	27.5	-41 57	A5	A4p	6.04	+0.14	1.58	
6932	170397	18	26.9	-14 37	A0p	Asi	6.05	-0.03	1.45	
6933	170433	18	27.3	-18 46	K0	gK0	5.66	+1.06	2.15	
6936	170479	18	27.8	-33 01	A3	A3m?	5.38	+0.18	1.60	D
6944	170680	18	28.5	-18 26	A0		5.14	0.00	1.51	
6946	170740	18	28.7	-10 50	B3	B2 V	5.72	+0.24	1.34	D
6952	170868	18	29.9	-38 46	B8+A		5.19	-0.06	1.38	D
6953	170867									
6954	170873	18	30.5	-52 56	K0	gK2	6.22	+1.25	2.32	
6956	170902	18	29.5	-14 41	A2	A3	6.37	+0.22	1.59	
6959	170975	18	29.9	-14 54	K2	cK5	5.56	+2.01	2.61	N
6960	171034	18	30.7	-33 03	B3	B3 IV	5.29	-0.11	1.22	
6961	171115	18	30.8	-24 04	K2	cK4	5.49	+1.79	2.56	
6962	171130	18	30.8	-14 54	A0	A1	5.76	+0.04	1.52	
6965	171237	18	31.5	-24 15	F0	cF3	6.52	+0.53	1.70	
6970	171391	18	32.3	-11 01	G5	G8 III	5.13	+0.94	1.95	N64
6972	171416	18	32.8	-29 44	K0	K0	6.37	+1.27	2.30	
6988	171856	18	34.9	-21 26	A5	A7m	5.94	+0.19	1.59	
6990	171961	18	35.5	-23 33	B9		5.81	-0.01	1.33	
6991	171967	18	36.0	-43 14	M6	gM2	5.44	+1.63	2.56	
6998	172051	18	35.9	-21 06	G5	dG4	5.86	+0.68	1.73	
7011	172546	18	38.8	-23 53	A2	Am	6.23	+0.23	1.59	
7014	172594	18	38.9	-14 37	F5		6.42	+0.81	1.75	
7015	172630	18	40.6	-61 09	K2		6.04	+1.46	2.52	
7022	172781	18	41.2	-56 56	K0		6.22	+1.38	2.45	
7037	173263	18	43.1	-50 09	F0		6.54	+0.28	1.58	
7045	173425	18	43.1	-19 40	M6	gM4	6.42	+1.65	2.33	?VN
7046	173460	18	43.3	-22 27	K2	gK4	5.39	+1.60	2.57	
7055	173638	18	44.0	-10 11	F5	F2 I-IIb	5.71	+0.61	1.70	
7070	173902	18	46.0	-34 48	K0		6.62	+1.08	2.20	
7077	174115	18	46.6	-19 12	A0		6.77	+0.20	1.60	N64
7078	174116	18	46.7	-20 23	K0	gK4	5.24	+1.41	2.42	
7087	174295	18	48.7	-52 10	K0	gG8	5.20	+0.96	2.02	
7088	174309	18	47.8	-22 13	F0	A7 III	6.29	+0.39	1.59	
7092	174387	18	48.7	-46 39	Ma	gK6	5.54	+1.63	2.60	
7093	174430	18	49.2	-52 00	B8		6.31	-0.09	1.29	
7095	174474	18	49.3	-48 25	A0		6.18	+0.12	1.56	
7097	174500	18	49.3	-46 39	A2		6.19	+0.03	1.49	
7108	174730	18	50.7	-49 56	A2		6.60	+0.08	1.55	
7111	174877	18	52.2	-62 52	K0		6.48	+1.53	2.56	
7114	174947	18	51.0	-21 25	K0	cK0	5.69	+1.23	2.18	
7119	175156	18	51.8	-15 40	B5	B5 III	5.10	+0.17	1.32	
7126	175317	18	52.6	-16 26	F5	dF5	5.58	+0.45	1.59	
7127	175329	18	54.2	-60 16	K0	K1 III-IV	5.13	+1.34	2.37	64
7128	175360	18	53.0	-23 14	B8		5.93	0.00	1.34	
7129	175362	18	53.3	-37 25	B5	B9 III?	5.38	-0.16	1.24	?VN
7134	175510	18	54.5	-53 00	B9	B9 III	4.87	-0.05	1.42	SB
7155	175852	18	55.3	-24 57	A0		6.62	+0.08	1.42	
7156	175855	18	55.7	-39 36	A0		6.49	-0.04	1.43	D
7159	175892	18	55.4	-22 36	A2		6.14	+0.09	1.56	
7164	176123	18	56.5	-18 38	G5		6.37	+0.99	1.98	S
7166	176162	18	56.6	-12 55	B5	B5 V	5.53	-0.04	1.29	D
7182	176537	18	58.6	-22 46	K5		6.24	+1.66	2.55	
7190	176664	19	00.1	-51 05	K5		5.94	+1.23	2.36	D

HR	HD	(1950)			Spectrum HD	Spectrum Other	V	B-V	$(U-B)_c$	Notes
		h m								
7203	176884	19 00.1	-19°	19'	G5	gG6	5.97	+1.19	2.09	D
7205	176903	19 00.2	-19	11	F5		6.37	+0.48	1.60	
7223	177406	19 03.2	-48	23	A0		5.97	-0.02	1.49	
7230	177517	19 02.8	-15	44	A0p	A0si	5.97	-0.02	1.37	SB
7239	177817	19 04.0	-16	18	B8		6.03	-0.02	1.34	D
7241	177863	19 04.2	-18	49	B8		6.29	-0.05	1.34	S
7246	178075	19 05.2	-24	44	B9		6.30	+0.02	1.45	
7249	178175	19 05.3	-19	22	B3	B2 Ve?	5.43	-0.04	1.22	SB
7255	178254	19 06.2	-39	55	K0	gK1	6.46	+1.06	2.14	
7265	178555	19 06.8	-19	53	K0		6.13	+1.15	2.24	D
7268	178628	19 07.6	-39	05	B8	Ap	6.36	+0.01	1.34	SB
7270	178840	19 08.1	-29	35	B9		6.30	-0.04	1.40	
7271	178845	19 08.9	-50	34	K0	gG9	6.12	+0.95	2.05	64
7281	179433	19 11.0	-45	17	K0	gG9	5.92	+0.90	1.96	
7289	179886	19 12.7	-45	33	K0	gK2	5.40	+1.35	2.32	
7304	180540	19 14.7	-19	03	K0	G8 II	4.90	+1.01	2.07	
7344	181645	19 18.9	-18	24	K0	gG9	5.87	+1.06	2.16	
7355	182180	19 21.4	-27	58	B3	B5 IV	6.04	-0.12	1.25	
7367	182477	19 22.5	-14	00	K0	gK3	5.74	+1.38	2.35	
7375	182629	19 23.3	-21	53	K0	gK3	5.60	+1.22	2.30	64
7378	182645	19 23.3	-15	09	B8		5.73	+0.02	1.35	
7379	182678	19 23.6	-14	39	A0		6.70	+0.05	1.49	
7410	183545	19 27.9	-21	25	A2		6.13	+0.12	1.55	
7411	183552	19 29.0	-53	18	A5	Am	5.77	+0.30	1.64	
7416	183806	19 29.7	-45	23	A0p	Ap	5.61	-0.04	1.47	
7430	184492	19 32.4	-10	40	G5	G8 III	5.12	+1.12	2.08	
7433	184574	19 32.8	-12	22	K0		6.27	+1.09	2.14	
7434	184585	19 34.2	-58	06	G5	gG9	6.20	+0.98	2.06	
7443	184835	19 34.2	-18	20	K0	gK3	5.67	+1.23	2.24	
7470	185404	19 36.8	-23	33	A0		6.34	+0.03	1.50	D
7473	185467	19 37.1	-23	33	K0	gK1	5.97	+1.04	2.10	
7507	186500	19 42.8	-32	02	B8	B8 Vn	5.52	+0.02	1.36	
7521	186756	19 45.0	-53	01	K0		6.26	+1.13	2.22	
7531	186957	19 46.5	-59	19	A2		5.42	+0.08	1.54	D
7537	187086	19 46.6	-47	41	Ma	gM1	5.95	+1.67	2.59	?VN
7541	187195	19 46.3	-11	00	K0	gK5	6.01	+1.23	2.34	
7548	187420	19 48.6	-55	06	G5+A2		5.31	+0.56	1.73	D
7549	187421									
7553	187532	19 48.0	-10	53	F0	F0 IV	5.39	+0.38	1.56	
7558	187653	19 50.3	-61	18	A3	A3 V	6.24	+0.16	1.55	
7561	187739	19 49.3	-19	10	G5	gG5	5.92	+0.98	1.99	SB
7586	188161	19 52.8	-58	03	K5		6.54	+1.53	2.56	
7587	188162	19 52.9	-59	02	A0		5.26	-0.01	1.51	
7614	188899	19 55.1	-15	38	A0	A2 IV	5.02	+0.07	1.54	
7625	189124	19 57.5	-59	31	M6	gM6	5.02	+1.50	2.11	?VN
7643	189561	19 58.4	-22	53	G5	dG7	6.00	+0.97	2.04	
7650	189763	19 59.6	-27	51	M6	M4 III	4.45	+1.62	2.44	?VN
7671	190390	20 02.3	-11	45	F5	gF4	6.34	+0.52	1.59	
7675	190454	20 02.7	-12	48	A0		6.52	+0.05	1.50	
7694	191110	20 05.8	-10	13	A0		6.18	+0.06	1.43	SB
7715	191862	20 09.6	-12	46	F5	F8 V	5.85	+0.48	1.60	
7775	193452	20 18.0	-14	57	B9		6.10	-0.02	1.44	D
7814	194636	20 24.5	-18	23	B8		5.10	-0.07	1.34	D
7817	194783	20 25.6	-35	46	A0		6.09	-0.11	1.31	
7819	194918	20 25.9	-15	54	K0		6.41	+1.00	2.05	

HR	HD	(1950)			Spectrum HD	Spectrum Other	V	B-V	$(U-B)_c$	Notes
		h m								
7825	195006	20 26.6	-22°	34'	K5	gM1	6.15	+1.55	2.57	
7829	195093	20 27.0	-18	45	A3+A2		5.51	+0.11	1.56	D
7830	195094									
7837	195330	20 28.3	-15	13	G0	gG5	6.10	+0.80	1.84	D
7855	195838	20 31.4	-13	54	F8	dF8	6.13	+0.54	1.64	
7856	195843	20 31.7	-30	39	B9		6.40	-0.08	1.39	
7859	195961	20 33.4	-61	42	F5	g?F5	4.85	+0.43	1.66	
7872	196317	20 35.6	-63	05	K0	gK2	6.22	+1.10	2.18	
7889	196662	20 36.5	-15	08	B5	B6 III	5.24	-0.14	1.27	D
7900	196777	20 37.2	-18	19	Ma	M2 III	5.16	+1.64	2.57	
7905	196857	20 37.7	-16	18	K0	gG7	5.80	+1.00	2.04	
7915	197093	20 39.6	-39	44	K0		6.28	+1.07	2.13	64
7933	197630	20 43.1	-39	23	B8		5.49	-0.10	1.38	
7937	197725	20 43.3	-21	42	A0		5.92	+0.04	1.56	
7951	198026	20 45.1	-05	13	Ma	M3 III	4.43	+1.63	2.54	
7961	198174	20 46.3	-25	58	B8	B6 V	5.86	-0.08	1.33	
7964	198208	20 46.5	-18	13	K0	gK3	6.21	+1.42	2.50	
7970	198356	20 47.7	-32	14	K5		6.42	+1.50	2.58	
7976	198431	20 47.9	-12	44	K0	gK1	5.88	+1.08	2.13	
7987	198716	20 50.4	-40	00	K2	gK1	5.34	+1.31	2.40	64
7994	198802	20 50.3	-11	46	G0	dG1	6.37	+0.67	1.73	
8000	199012	20 52.0	-18	07	K0	gK0	5.77	+1.12	2.16	
8015	199345	20 54.2	-09	53	K2	gK5	5.48	+1.47	2.50	D
8024	199603	20 55.9	-14	41	A3	A3	6.0	+0.23	1.59	VN64
8033	199728	20 56.8	-19	14	A0p	A0si	6.26	-0.13	1.33	
8045	200052	20 58.8	-27	05	A2	A3m	6.06	+0.06	1.57	
8055	200365	21 01.6	-54	56	K0	gK2	5.16	+1.20	2.27	
8102	201707	21 08.9	-14	41	A5	gF0	6.45	+0.30	1.61	
8118	202149	21 11.6	-10	49	B9		6.76	-0.07	1.37	
8122	202261	21 12.3	-17	33	G5		6.04	+0.99	2.04	
8127	202320	21 12.8	-20	52	K0	gG9	5.16	+1.15	2.22	
8134	202606	21 14.5	-13	29	A0		6.40	+0.04	1.51	
8145	202874	21 16.9	-45	14	Na	Na	6.03	+2.51	2.90	VN
8172	203475	21 20.1	-22	53	K5	gM1	5.63	+1.62	2.58	
8188	203760	21 22.7	-54	53	F0	F0 III	6.10	+0.36	1.58	S
8211	204228	21 25.5	-53	55	K2		6.39	+1.14	2.25	
8233	204873	21 29.8	-52	58	K5		6.41	+1.48	2.54	
8245	205289	21 32.0	-20	18	F5	dF1	5.71	+0.42	1.56	
8271	205935	21 37.0	-55	58	K0	cG9	6.32	+1.06	2.12	64
8273	206005	21 36.8	-10	48	K0		6.07	+1.03	2.13	
8282	206291	21 38.9	-25	20	K0		6.49	+1.19	2.24	
8283	206301	21 38.8	-14	16	G5	G2 IV	5.15	+0.67	1.74	
8285	206356	21 39.2	-23	29	K0	gG9	5.24	+0.98	2.08	
8295	206561	21 40.3	-14	38	A5	A5m	5.88	+0.25	1.58	
8302	206677	21 41.3	-14	59	A5	A5m	5.96	+0.22	1.57	SB
8369	208496	21 55.0	-59	15	F5		6.2	+0.47	1.57	VN64
8394	209240	21 59.4	-18	09	G5	gG7	6.28	+1.01	2.08	
8396	209278	21 59.7	-17	12	A2	A2	6.39	+0.42	1.65	?VND
8409	209529	22 02.3	-59	53	K5		5.62	+1.47	2.53	
8433	210066	22 05.5	-34	17	K5	gM1	4.98	+1.50	2.54	
8446	210300	22 07.2	-28	32	A3		6.44	+0.15	1.56	
8452	210424	22 08.0	-11	49	B5	B6 III?	5.42	-0.12	1.30	
8462	210705	22 09.7	-14	26	F0	dF2	6.03	+0.38	1.56	S
8470	210848	22 10.9	-25	26	F8	dF6	5.59	+0.50	1.66	
8478	210934	22 11.5	-28	01	B9	B8 III	5.42	-0.12	1.32	

HR	HD	(1950)				Spectrum HD	Spectrum Other	V	B-V	$(U-B)_c$	Notes
8480	210960	22h	11.5m	-21°	19'	G5	K0 III	5.33	+0.82	1.87	D
8496	211361	22	14.1	-13	05	K0	gK0	5.34	+1.13	2.21	
8497	211364	22	14.2	-23	23	G5		6.17	+1.05	2.09	
8534	212430	22	21.8	-13	47	G5	gG6	5.76	+0.97	2.02	
8544	212697	22	23.8	-17	00	G0	dG1+dG2	5.57	+0.62	1.69	D
8545	212698										
8583	213464	22	29.0	-11	10	F0	A7m	6.39	+0.29	1.57	SB
8596	213986	22	32.8	-24	15	K0	gK0	5.96	+0.98	2.08	
8676	215874	22	45.9	-10	49	F0	dF0	6.19	+0.28	1.60	
8680	216042	22	47.2	-33	04	A5	F2 IV	6.32	+0.31	1.57	D64
8693	216210	22	48.6	-29	48	K0	gG9	5.98	+0.91	1.98	
8722	216823	22	53.9	-48	14	A3	Am	5.71	+0.24	1.63	
8741	217251	22	57.0	-13	20	K2	gK5	6.11	+1.46	2.52	
8754	217484	22	58.6	-29	07	K0	gK2	5.54	+1.35	2.44	
8756	217498	22	58.7	-23	04	A2		6.28	+0.13	1.60	
8760	217642	22	59.8	-36	41	K0	g?G9	6.46	+0.93	2.04	D
8771	217842	23	01.2	-41	45	K0	gK1	5.80	+1.07	2.13	
8791	218255	23	04.3	-49	53	K0		6.33	+1.45	2.52	
8793	218268	23	04.4	-50	57	F5	dF7	5.83	+0.48	1.62	D64
	218269										
8802	218434	23	05.6	-29	06	K0	g?G9	5.60	+0.88	1.93	
8813	218619	23	07.0	-28	22	K0		5.87	+1.31	2.38	
8816	218639	23	07.2	-14	47	A0		6.43	0.00	1.50	
8818	218655	23	07.4	-40	52	Mb	gM3	5.90	+1.58	2.45	?VN
8835	219263	23	12.2	-41	23	K0	K2 III	5.78	+1.16	2.27	64
8836	219279	23	12.1	-10	58	K5		6.12	+1.51	2.52	D
8846	219507	23	13.9	-44	46	K0	gK0	5.92	+1.05	2.12	D
8877	220003	23	18.0	-50	35	F5	Am	5.98	+0.44	1.65	D
8901	220572	23	22.5	-57	07	K0	gK2	5.60	+1.07	2.16	
8909	220790	23	24.4	-58	45	K0	gG8	5.63	+0.98	2.05	64
8910	220802	23	24.4	-50	26	B8	B9	6.21	-0.07	1.43	64
8956	222004	23	34.4	-32	09	K0		6.50	+1.25	2.30	D
8958	222093	23	35.1	-13	20	G5	gG6	5.64	+1.03	2.08	D
8980	222547	23	39.0	-18	18	K0	gK5	5.34	+1.57	2.58	
8987	222643	23	39.9	-15	44	K2	K4 III	5.26	+1.35	2.42	SB
8998	222847	23	41.6	-18	33	B8	B8 V	5.22	-0.10	1.37	
9021	223428	23	47.0	-16	08	K0		6.21	+1.21	2.27	
9027	223524	23	47.7	-10	15	K0	K0 IV	5.94	+1.13	2.25	
9029	223559	23	48.0	-14	41	K0	gK5	5.68	+1.48	2.55	
9037	223774	23	49.9	-14	32	K0	gK3	5.83	+1.24	2.34	
9060	224361	23	54.7	-63	14	A2	A2p	5.96	+0.10	1.57	64
9096	225069	00	00.6	-24	25	G5	G5	6.45	+1.18	2.26	

FK 4 Stars

1062	14247	02h	15.2m	-36°	13'	G5		6.70	+0.98	2.05	
1078	17134	02	42.0	-25	42	G0		6.83	+0.66	1.74	
1087	19467	03	04.9	-13	57	G0		6.97	+0.65	1.73	
1216	69479	08	14.7	+04	22	G0+A2		6.53	+0.63	1.75	
	69480										
1405	136801	15	20.2	-14	57	K2		6.47	+1.62	2.58	N
1437	151658	16	46.6	-21	46	Ma		7.42	+1.92	2.52	N
1598	215749	22	44.9	-02	03	K2		7.44	+1.15	2.25	

HR	Notes
332	Change of $0^m.03$ in V from ROB 64.
625	Seven observations have a range of $0^m.08$ in V, $0^m.04$ in B-V and $0^m.09$ in $(U-B)_c$.
735	Seven observations have a range of $0^m.09$ in $(U-B)_c$.
977	Ten observations have a range of $0^m.15$ in V, $0^m.28$ in B-V and $0^m.6$ in $(U-B)_c$. Change of $0^m.2$ in V and $0^m.5$ in B-V from ROB 64. This is a very red star and the corrections used to obtain B-V and $(U-B)_c$ were uncertain.
1004	Change of $0^m.03$ in B-V from ROB 64.
1374	Seven observations have a range of $0^m.13$ in V. Change of $0^m.05$ in V and $0^m.03$ in B-V from ROB 64.
1715	Eight observations have a range of $0^m.10$ in $(U-B)_c$.
1793	Ten observations have a range of $0^m.34$ in V and $0^m.17$ in $(U-B)_c$. Change of 0.1 in V from ROB 64.
2043	Change of $0^m.03$ in V from ROB 64.
2166	Eight observations have a range of $0^m.13$ in V and $0^m.08$ in $(U-B)_c$.
2203	Six observations have a range of $0^m.10$ in $(U-B)_c$.
2284	Six observations have a range of $0^m.14$ in V.
2583	Seven observations have a range of $0^m.16$ in V.
2690	Seven observations have a range of $0^m.12$ in V.
2741	Five observations have a range of $0^m.06$ in V.
2855	Seven observations have a range of $0^m.10$ in V.
2902	Change of $0^m.1$ in V from ROB 64.
2957	Seven observations have a range of $0^m.18$ in V and $0^m.09$ in B-V.
2976	Five observations have a range of $0^m.11$ in $(U-B)_c$.
3027	Seven observations have a range of $0^m.18$ in V, $0^m.17$ in B-V and 0.11 in $(U-B)_c$
3032	Change of $0^m.04$ in V from ROB 64.
3157	Seven observations have a range of $0^m.15$ in V.
4532	Six observations have a range of $0^m.13$ in V
4622	Eight observations have a range of $0^m.09$ in $(U-B)_c$
4739	Eight observations have a range of $0^m.35$ in V.
4754	Six observations have a range of $0^m.09$ in $(U-B)_c$
5001	Change of $0^m.03$ in V from ROB 64.
5026	Eight observations have a range of $0^m.10$ in V.
5043	Seven observations have a range of $0^m.10$ in V.
5135	Seven observations have a range of $0^m.08$ in V and 0.09 in $(U-B)_c$.
5181	Six observations have a range of $0^m.08$ in V
5620	Six observations have a range of $0^m.09$ in V and $0^m.08$ in $(U-B)_c$.
6022	Eight observations have a range of $0^m.13$ in V, and $0^m.25$ in $(U-B)_c$. This is a very red star and the corrections used to obtain B-V and $(U-B)_c$ were uncertain.
6055	Nine observations have a range of $0^m.10$ in V and 0.17 in $(U-B)_c$.
6160	Six observations have a range of $0^m.08$ in V.
6240	Seven observations have a range of $0^m.24$ in V.
6257	Five observations have a range of $0^m.14$ in V.
6262	Six observations have a range of $0^m.09$ in V.

6274 Change of $0^m.04$ in B-V from ROB 64.
6773 Seven observations have a range of $0^m.4$ in V.
6816 Six observations have a range of $0^m.10$ in $(U-B)_c$.
6926 Seven observations have a range of $0^m.24$ in V.
6929 Eight observations have a range of $0^m.10$ in V.
6959 Six observations have a range of $0^m.14$ in $(U-B)_c$. This is a very red star and the corrections used to obtain B-V and $(U-B)_c$ were uncertain.
6970 Eight observations have a range of $0^m.09$ in $(U-B)_c$.
7045 Seven observations have a range of $0^m.15$ in V.
7077 Change of $0^m.03$ in V from ROB 64.
7129 Eight observations have a range of $0^m.09$ in V.
7537 Seven observations have a range of $0^m.12$ in V and $0^m.08$ in $(U-B)_c$.
7625 Seven observations have a range of $0^m.30$ in V.
7650 Seven observations have a range of $0^m.16$ in V.
7951 Seven observations have a range of $0^m.10$ in V.
8024 Five observations have a range of $0^m.24$ in V.
8145 Seven observations have a range of $0^m.15$ in V and $0^m.11$ in $(U-B)_c$. This is a very red star and the corrections used to obtain B-V and $(U-B)_c$ were uncertain.
8369 Seven observations have a range of $0^m.20$ in V. Change of 0.10 in V from ROB 64.
8396 Ten observations have a range of $0^m.07$ in V.
8818 Ten observations have a range of $0^m.22$ in V and $0^m.12$ in $(U-B)_c$.

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1405 Five observations have a range of $0^m.08$ in $(U-B)_c$.
1437 Eight observations have a range of $0^m.12$ in $(U-B)_c$.

Royal Observatory,
Cape of Good Hope.

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