

PHOTOELECTRIC MAGNITUDES AND COLOURS FOR BRIGHT SOUTHERN STARS

P. M. Corben

The accompanying table gives magnitudes and colours for 22 southern stars, measured with a photoelectric photometer on the Cape Astrographic refractor, 19 of them being in the "Yale Bright Star Catalogue", the remaining 3 in the FK4.

This is the eleventh and final list of V, B-V, (U-B)_c photometry of stars in the revised Harvard Photometry between -4° and -64°. The few remaining stars cannot be measured with the Astrographic refractor for one reason or another.

An explanation of the notes, together with references to the previous lists, is given with the tenth list (Corben, 1971).

HR	HD	α	1950.0	δ	Spectrum		V	B-V	(U-B) _c	Notes
					HD	Other				
1695	33684	05 ^h 07 ^m .2	-63°	28'	Mb	gM4	5.2	+1.63	2.51	VN
2212	42933	06 09.3	-54	57	B1		4.8	-0.24	1.11	VNSB
2687	54179	07 04.0	-50	17	K0		6.46	+1.42	2.48	
2730	55762	07 11.3	-22	35	K2		5.96	+1.48	2.54	?VN
3170	66888	08 02.3	-32	32	Ma	cM1	5.2	+1.92	2.53	VN
3247	69194	08 12.1	-50	03	K5	gK6	5.54	+1.65	2.61	N
3317	71231	08 23.4	-17	17	K0		6.43	+1.24	2.33	
3364	72268	08 28.6	-36	33	K2		6.8	+1.96	2.52	VN64
4768	108968	12 28.9	-59	09	F8p	cF	5.52	+0.65	1.76	VNSB
4821	110317	12 38.7	-12	44	F5	dF1+dF6	5.14	+0.44	1.62	VND
4822	110318									
5514	130158	14 44.5	-25	25	A0p	Asi	5.61	-0.04	1.39	
5636	134255	15 06.9	-38	36	G5	gG8	5.97	+0.87	1.92	
5790	138923	15 33.0	-32	56	B9		6.25	-0.09	1.37	
6323	153791	17 00.0	-47	05	A2		6.08	+0.07	1.55	
6576	160342	17 38.2	-50	29	Ma	gM3	6.3	+1.71	2.49	VN
6861	168574	18 18.4	-24	56	Mb	gM5	6.2	+1.89	2.39	VN
6864	168646	18 18.8	-28	27	A2		6.17	+0.26	1.57	
6986	171819	18 35.5	-47	57	A5	A5m?	5.86	+0.23	1.58	
6989	171957	18 35.2	-14	03	B9		6.51	+0.19	1.43	D
FK4										
1298	99923	11 27.1	-27	45	K0		6.67	+1.35	2.42	
1315	107161	12 16.8	-08	38	K0		6.84	+1.08	2.15	
1388	131476	14 51.2	+06	27	K0		6.63	+1.17	2.26	

Notes

HR

- 1695 Ten observations have a range of $0.^m18$ in V.
- 2212 Eight observations have a range of $0.^m25$ in V.
- 2730 Nine observations have a range of $0.^m14$ in V.
- 3170 Nine observations have a range of $0.^m24$ in V, and $0.^m18$ in $(U-B)_c$. This is a very red star and the corrections used to obtain B-V and $(U-B)_c$ were uncertain.
- 3247 Six observations have a range of $0.^m07$ in V and $0.^m08$ in $(U-B)_c$.
- 3364 Twelve observations have a range of $0.^m43$ in V, $0.^m15$ in B-V, and $0.^m12$ in $(U-B)_c$. This is a very red star and the corrections used to obtain B-V and $(U-B)_c$ were uncertain.
- 4768 Eight observations have a range of $0.^m16$ in V.
- 4821/2 Eight observations have a range of $0.^m15$ in V. One of the stars in the system is a spectroscopic binary.
- 6576 Nine observations have a range of $0.^m37$ in V.
- 6861 Nine observations have a range of $0.^m25$ in V and $0.^m14$ in $(U-B)_c$.

Royal Observatory,
Cape of Good Hope.

1971 June.

Reference

Corben, P.M., 1971, MNASSA, 30, 4.