

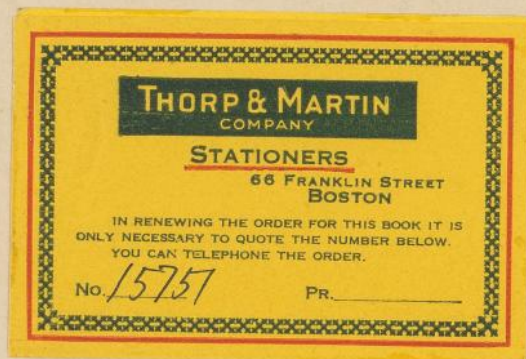
KG
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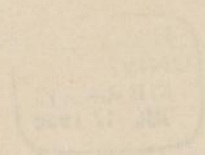
B stars

126 11366.118

+



C.H.P.



15011366.118



Stars marked on

3

1	B2p	10	8.3	-57 34	-57° 27 81
2	B5p	10	17.2	-55 33	J Velorum
3	B3p	10	24.9	-62 40	-62° 15 95
4	B5p	10	28.5	-61 10	+v Car
5	B5p	10	38.9	-58 42	-58° 25 81
6	B	10	40.5	-58 46	-58° 26 37

Scorpio Sagittarius regions

The list of stars for investigation is on p. 50.

The available plates are divided as follows.

Stars	Plates
1	B 4963
2-3	B 36516, B 17084
11-12	B 4941, 36516, 17084, 36507, 21873
4-10	MF 7831, B 40431, MF 7858, 7846, 7953, 7911, B 17037, MF 8015
13-14, 17-19	

Stars in the Scorpio and Sagittarius regions

		A. Bright line		B stars		Classified		Book		No.	
No.		Sp.		mag.		on		on		on	
3, Sco		1	16	47.0	-42 12	B1p	4.9	(B4963)			✓
HD 153222 } -49° 1105 }		2	16	52.9	-49 6	B0	8.8	B17084	109, 20	146	✓
154154 } -48° 11424 }		3	16	58.6	-48 17	B0	8.5	B17084	109, 20	120	✓
154218 } -36° 11217 }		4	16	59.0	-36 36	B5	7.7	B22853	109, 146	82	✓
154243 } -36° 11221 }		5	16	59.2	-36 27	B5	8.3	B22853	109, 146	81	✓
154450 } -35° 11320 }		6	17	0.4	-35 37	B0e	8.5	B22853	109, 146	89	✓
-33° 11875		7	17	8.7	-33 26	B3p	5.5	(B40431)	110, 164	71	✓
-32° 12518		8	17	9.0	-32 32	B8p		B40431	110, 164	224	✓
HD 156468 } -37° 11463 }		9	17	12.6	-37 54	B2	8.0	B17037	110, 2	87	✓
156702 } -38° 11713 }		10	17	14.0	-38 33	B5	8.7	B17037	110, 2	94	✓
-47° 11484		11	17	15.8	-47 23	B3p	5.5	(B17084)	109, 20		✓
-46° 11530		12	17	20.5	-46 57	B2p	7.3	(B17084)	109, 20	335	✓
HD 160095 } -33° 12319 }		13	17	32.9	-33 29	B8	8.7	B40731	110, 190	76	✓
160202 } -32° 13086 }		14	17	33.5	-32 9	B8	6.9	B40731	110, 190	179	✓
-46° 11816		15	17	38.2	-46 3	Plyg	11.0	(B21873)			too faint
-27° 11944		16	17	41.9	-27 59	Plyg	..	..	?		too faint
HD 163181 } -32° 13517 }		17	17	49.7	-32 27	B2 (Ocs)	6.6	(B17092)			✓
163454 } -30° 14987 }		18	17	51.1	-31 0	B1e (Ocs)	7.9	B13823	111, 48	170	✓
163868 } -33° 12700 }		19	17	53.3	-33 24	B2e	7.2	B13823	111, 48	124	✓
-30° 15469		20	18	9.7	-30 54	Plyg	11.8	B17092	111, 112	409	too faint

These stars are marked on the three plates

1	MF	7831 (7)
3	MF	8086 (5)
2	B	36516 (5)

Available plates covering the regions:

No.	* Center	Remarks
MF 7831	17 08 -36 1	Std, Nos. 4, 5, 6, 7, 8, 9, 10 marked
B 36576 *	17 10 -44.6 2	Std. Nos. 1, 2, 3, 11, 12 "
MF 8086	17 39 -32.0 3	Nos. 13, 14, 17, 18, 19 "
B 4963	16 40 -40	Excellent for bright stars. long disp.
MF 7932 *	16 50 -35	Faint stars
B 22853	16 52 -37	H.D. plate. Excellent
B 40431	17 7 -33 1	H.D. Plate. Excellent
MF 7858	17 8 -29 1	Very faint stars Strong Eberhard effect
MF 7946 ✓	17 8 -30 1	Very faint stars
MF 7953 ✓	17 8 -36 1	" " "
MF 7911	17 8 -36 1	Faint stars. Fog.
B 10825	17 8 -35.5 1	Excellent. rather bright stars ^{too faint} long disp.
B 41751	17 8 -34.8 1	" bright stars too faint.
B 17037 ✓	17 10 -37.3 1	H.D. plate.
B 17084	17 10 -46.3 2	H.D. plate
MF 8015	17 24 -31.0	Faint stars. Flat plate
B 36507 *	17 27 -46.5	Bright stars. Long dispersion
B 40731	17 27 -33.0	H.D. plate
B 21873	17 34 -47	H.D. plate
B 4941 *	17 35 -45	Bright stars. Long disp.
MF 7992	17 39 -26.0	Faint stars
B 13823	17 50 -32.3	H.D. plate
B 5784	18 0 -31.4	long disp.
B 17092	18 5 -27.5	Very faint stars
B 43285	18 8 -30.4	Bright. Long disp.

Identification of Nouvel B and standard

How Miss Cannon's Books			Star Class	DM	1855 R.A.	1900 R.A.	Dec.	From the H.D.C. Sp.	Pg.
110	176	174	B3	-32° 12574 17	10.2	11.8	-32 13	B3	8.2
110	176	175	B	-32° 12575 17	10.2	{11.8	-32 18}	B	7.6
110	176	177	B8	-32° 12573 17	10.2	11.8	-32 27	B8	6.1
110	180	219	B5	-32° 12538 17	8.4	10.0	-32 14	B5	7.3
*110	180 218	218	Q0	-32° 12533 17	7.9	9.5	-32 12	A0	10.0
110	180	225	B8	-32° 12508 17	6.9	8.5	-32 42	B8	9.4
110	168	62	B9	-32° 12429 17	5.6	7.2	-32 44	B9	7.7
110	168	74	B3	-33° 11887 17	7.6	9.2	-33 37	B3	6.6
110	168	73	B9	-33° 11885 17	7.6	9.2	-33 34	B9	8.6
110	168	76	B5	-33° 11867 17	6.8	8.4	-33 37	B5	7.7
110	168	67	B8	-33° 11865 17	6.5	8.1	-33 18	B8	9.1
*110	168	63	Q0	-33° 11848 17	5.7	7.3	-33 16	A0	10.0
110	168	59	B5	-33° 11844 17	5.3	6.9	-33 14	B5	7.6
110	168	57	B8	-33° 11826 17	4.5	6.1	-33 8	B8	9.4
110	168	56	B5	-33° 11830 17	4.6	6.2	-33 14	B5	7.1
*110	168	58	Q0	-33° 11840 17	5.7	6.7	-33 4	A0	9.5
110	174	135	B5	-33° 11937 17	9.9	11.5	-33 7	B5	9.1
*110	172	122	Q0	-32° 12630 17	12.3	13.9	-32 59	A0	8.8
*110	172	123	Q0	-32° 12626 17	12.1	13.7	-32 46	A0	8.3
*110	172	120	Q0	-32° 12663 17	14.1	15.7	-32 52	A0	8.8
*110	178	199	Q0	-33° 12023 17	16.2	17.8	-33 9	A0	8.0
*110	178	198	Q0	-32° 12711 17	16.7	18.3	-32 25	A0	9.2
110	184	280	B8	-32° 12726 17	17.9	19.5	-32 48	B8	8.2
110	172	118	B9	-33° 11996 17	13.8	15.4	-33 19	B9	8.8
110	176	92	B3	-33° 11828 17	4.6	6.2	-33 33	B3	7.9
*110	166	32	Q0	-33° 11780 17	2.3	3.9	-33 43	A0	9.1
110	166	29	B9	-33° 11762 17	1.2	2.8	-33 22	B9	8.8
110	166	30	B9	-33° 11760 17	0.9	2.5	-33 27	B9	10.3
110	164	15	B8	-33° 11753 17	0.1	1.7	-33 44	B8	8.6

stars in selected region

Serial No. Plate
(comp) MF 7831

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Two stars of nearly equal brightness in nearly the same R.A. band about 0.3 apart in dec.

Book	P.	No	Class	D.M	R.A	RA	Dec	Sp	PFg
*110	174	136	A0	-32° 12578	17 10.3				
110	176	179	B3	-32° 12593	17 10.8				
110	170	100	B0	-35° 11448	17 9.4				
110	170	99	B0	-35° 11445	17 9.1				
110	170	98	B0	-35° 11441	17 9.0				
*110	170	104	Q0	-35° 11495	17 13.1				
110	174	150	B8	-34° 11617	17 9.8				
110	174	147	B9	-33° 11950	17 10.5				
*110	174	148	A0	-34° 11624	17 10.3				
110	174	149	B8	-33° 11943	17 10.2				
110	170	80	B9	-34° 11589	17 7.3				
110	170	86	B5	-34° 11554	17 4.1				
*110	170	94	A0	-34° 11541	17 3.1				
110	164	20	B5	-34° 11493	16 59.3				
110	164	3	B8	-34° 11454	16 57.2				
*110	174	153	Q0	-33° 11918	17 8.9				
*110	196	1	A0	-34° 11674	17 16.8				
*110	196	2	Q0	-34° 11676	17 16.9				
110	190	7	B9	-33° 12069	17 18.4				
110	192	42	B9	-34° 11793	17 26.5				
110	190	23	B8	-34° 11759	17 24.8				
*110	190	25	A0	-34° 11769	17 26.0				
*110	190	20	A0	-34° 11716	17 20.6				
110	190	6	B8	-34° 11685	17 17.9				
*110	192	47	A	-34° 11860	17 29.3				
109	124	298	B2	-35° 11750	17 29.2				
109	124	297	B8	-35° 11748	17 29.0				
109	124	300	B4	-35° 11704	17 25.9				

Serial Plate

C.H.P.

#950 MF. 7831

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Book	P.	No	Class	D.M	R.A
*109	124	306	A0	-35° 11632	17 21.9
*109	124	307	A0	-35° 11614	17 21.3
109	156	131	B3	-35° 11306	16 58.2
*109	156	132	A0	-35° 11319	16 58.7
109	156	136	B9	-35° 11334	16 59.3
109	156	135	B3	-34° 11503	16 58.9
109	152	90	B8	-35° 11315	16 58.4
109	154	129	B9	-36° 11187	16 55.7
*109	150	77	A0	-37° 11242	16 56.3
*109	150	76	A0	-37° 11208	16 55.5
*109	150	75	A0	-37° 11188	16 54.5
109	156	150	B8	-37° 11215	16 55.7
109	122	278	B5	-36° 11620	17 24.0
109	122	270	B8	-36° 11531	17 19.6
109	122	273	B8	-36° 11569	17 21.6
109	108	88	B8	-37° 11654	17 23.4
*109	108	90	A0	-37° 11702	17 27.2
109	108	89	B5	-37° 11700	17 27.0
109	120	243	A0	-37° 11741	17 29.4
109	122	285	B8	-36° 11681	17 27.6
*109	124	281	A0	-36° 11721	17 29.6
*109	124	290	A0	-35° 11768	17 30.6
109	122	267	B9	-37° 11569	17 17.6
109	122	261	B9	-36° 11453	17 15.0
*109	122	264	A0	-36° 11474	17 16.3
*109	10	121	A0	-36° 11422	17 12.5
*109	10	128	A0	-35° 11457	17 10.3
109	6	75	B9	-37° 11401	17 5.7
*110	6	74	A0	-37° 11404	17 5.9

Serial	C.H.P.	Plate
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Book	P	No	Class	D. M	R. A
*110	4	27	Qo	-37° 11379 17	4.3
*110	2	26	Qo	-57° 11365 17	3.6
110	8	88	B3	-37° 11487 17	12.2
*110	8	85	Qo	-37° 11454 17	10.1
*110	8	83	Qo	-38° 11730 17	9.6
110	6	64	Bg	-38° 11696 17	7.6
*110	6	63	Qo	-38° 11694 17	7.5
*110	8	79	Qo	-37° 11391 17	5.1
110	4	47	Bg	-38° 11647 17	4.5
*110	4	49	Qo	-38° 11608 17	2.2
*110	6	60	Ao	-38° 11722 17	9.0
110	6	58	B8	-38° 11729 17	9.5
110	8	95	Bg	-38° 11767 17	11.8
*110	8	97	Ao	-39° 11328 17	11.2
*109	108	80	Ao	-38° 11937 17	21.7
*109	108	85	Ao	-38° 11962 17	23.0
*109	108	86	Ao	-38° 11968 17	23.1
109	108	103	Bg	-38° 11980 17	23.8
*109	108	96	Ao	-38° 12030 17	27.0
*109	106	77	Ao	-38° 11922 17	20.6
109	106	61	Bg	-38° 11906 17	19.7
109	106	60	B8	-38° 11904 17	19.5
*109	104	50	Ao	-38° 11865 17	17.7
109	104	48	Bg	-38° 11860 17	17.6
*109	104	46	Ao	-38° 11855 17	17.3
*109	104	37	Ao	-38° 11820 17	15.1
109	110	115	Bg	-41° 11740 17	24.3
*109	110	116	Ao	-40° 11555 17	22.8
*109	102	10	Ao	-40° 11505 17	20.7
*109	102	8	Ao	-40° 11523 17	21.3

Serial	Plate
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Book	P.	No	Class	D.M	R.	A
*109	102	6	A0	-40° 11515	17	21.3
109	102	21	B0	-40° 11483	17	19.7
109	102	20	B8	-40° 11461	17	18.5
109	102	23	A0	-40° 11457	17	18.4
109	102	24	A0	-40° 11455	17	18.1
109	102	25	A0	-40° 11443	17	17.3
109	102	14	A0	-41° 11656	17	19.6
*109	96	488	A0	-42° 12334	17	29.7
*109	94	448	A0	-42° 12293	17	27.4
109	94	449	B9	-42° 12297	17	27.6
109	94	4459	B9	-42° 12271	17	25.9
*109	94	455	A0	-43° 11858	17	27.3
109	82	302	B8	-43° 11905	17	30.5
*109	40	269	A0	-44° 11595	17	10.4
109	40	267	B	-43° 11572	17	9.8
109	40	265	B3	-44° 11576	17	8.7
109	38	245	B	-44° 11569	17	8.0
*109	26	80	A0	-45° 11301	17	5.0
*109	56	471	A0	-44° 11450	16	58.3
109	56	470	B8	-44° 11434	16	57.4

Serial	Plate
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Book	P.	No	Class	DM	R	A
109	56	474	B9	-44° 11443	16	57.8
* 109	56	469	A0	-44° 11432	16	57.0
* 109	54	468	A0	-44° 11418	16	56.3
109	54	466	B8	-43° 11366	16	54.9
109	20	25	B8	-45° 11161	16	54.0
109	20	6	B8	-45° 11111	16	50.3
* 109	42	288	A0	-45° 11408	17	11.7
109	42	299	B3	-45° 11403	17	11.4
109	42	300	B5	-45° 11411	17	11.9
109	48	366	B8	-44° 11725	17	17.4
* 109	48	375	A0	-44° 11783	17	20.7
109	44	319	A	-46° 11478	17	15.6
109	44	332	B8	-47° 11549	17	17.7
109	48	389	B8	-46° 11557	17	20.1
* 109	50	412	A0	-47° 11463	17	12.6
109	40	267	B	-43° 11572	17	9.8
109	26	89	B8	-46° 11325	17	6.7
109	26	97	B3	-46° 11292	17	3.7
109	24	58	B5	-46° 11267	17	2.1
109	26	101	B	-46° 11258	17	1.1
109	26	104	B	-46° 11250	17	0.6
109	28	107	B8	-47° 11276	17	0.2
109	22	45	B9	-46° 11260	16	55.8
109	22	46	B2	-46° 11203	16	56.0
109	28	125	B8	-47° 11217	16	54.1
109	28	124	B5	-47° 11221	16	54.7
* 109	28	113	A0	-47° 11260	16	58.8
109	26	94	A	-47° 11340	17	4.2
* 109	36	211	A0	-47° 11409	17	9.0
109	34	208	B9	-48° 11588	17	9.6

Serial Plate

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Book	P	No.	Class	DM		RA	
* 109 150	30	145	A ₀	-48°	11356	16	50.8
109	30	150	B ₉	-48°	11417	16	56.4
109	34	185	B ₈	-48°	11516	17	4.0
* 109	34	193	A ₀	-49°	11262	17	5.0

Serial

Plate

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IV

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B

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B5

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Measures on plate MF 7831, Plate erect

No.	Reading	Film	Diff.	Corrected Diff		
-21 B3 8.2	} superimposed				Curves	
22 B 7.6						
23 β_2	3.20	10.15	6.95	7.12	-	
B8 6.1 β_1	2.64	10.05	7.41	7.58	-	
+0.17 β	2.57	10.08	7.51	7.68	-	
γ_2	2.57	10.23	7.66	7.83	-	
γ_1	2.58	9.62	7.04 7.04	7.21	-	
γ	2.59	9.98	7.39	7.56	-	
δ_2	2.54	10.00	7.46	7.63	-	
δ_1	2.60	9.97	7.37	7.54	-	
δ	2.70	9.45	6.75	6.92	189	
$\delta-\epsilon$	2.72	9.52	6.80	6.97	166	
ϵ	2.92	9.42	6.50	6.67	196	
$\epsilon-\zeta$	2.98	9.42	6.44	6.61	193	
24 β_2	3.05	9.28	6.23	6.40	203	
B5 7.3 β_1	2.80	9.19	6.39	6.56	201	
+0.17 β	2.82	9.27	6.45	6.62	194	
γ_2	2.80	9.21	6.41	6.58	202	194
γ_1	2.80	9.35	6.55	6.72	187	132
γ	2.92	9.19	6.27	6.44	205	
δ_2	2.84					
δ_1						
δ						
$\delta-\epsilon$	2.84	9.24	6.40	6.57	201	194
ϵ	3.00	9.10	6.10	6.27	217	
$\epsilon-\zeta$	3.06	8.90	4.84	5.01	266	266

No
25
A
to

No
B
to

MF 7831

No.		Reading	Film	Diff.	Corr. Diff.	Curv
25	β_2	9.09	9.293	0.14	0.31	-
AD 10.0	β_1	8.80	9.15	0.35	0.52	-
+0.17	β_0	7.42	9.18	1.76	1.93	-
	α_2	7.00	9.23	2.23	2.40	-
	α_1	6.26	9.11	2.85	3.02	362
	α	6.90	9.10	2.20	2.37	-
	δ_2	6.27	9.23	2.96	3.13	356
	δ_1	6.57	9.17	3.60	3.77	325
	δ	7.48	9.08	1.60	1.77	-
	$\delta-E$	6.88	9.00	2.12	2.29	-
	ϵ	7.73	8.96	1.23	1.40	-
	$\epsilon-J$	7.40	9.04	1.64	1.81	-

No 8	β_2	9.10	10.16	1.06	1.23	-
B8p	β_1	3.88	10.20	6.32	6.49	208
+0.17	β	3.29	10.07	6.78	6.95	164
	γ_2	3.53	10.08	6.55	6.72	187
	γ_1	3.22	10.13	6.91	7.08	158
	γ	3.32	10.11	6.79	6.96	165
	δ_2	3.24	10.11 10.03	6.79	6.96	165
	δ_1	3.24	10.00	6.76	6.93	163
	δ	3.60	10.08	6.48	6.65	195
	$\delta-E$	3.74	10.05	6.31	6.48	208
	ϵ	3.95	10.05	6.10	6.27	217
	$\epsilon-J$	4.18	10.05	5.87	6.04	225

No

B

9

Zer

con

=

No

B

Zer

con

No. 26	β_2	Reading	MF. 7831	Zero		Curves
		10.17	9.92	2.602	+0.2	-
B8	β_1	9.84	10.20	0.36	0.53	-
9.4	β	7.16	10.17	3.01	3.18	359
Zero	δ_2	7.10	10.22	3.12	3.29	353
corr. = +.17	δ_1	6.04	10.06	4.02	4.19	307
	δ	6.50	9.88	3.38	3.55	335
	δ_2	6.20	9.92	3.72	3.89	321
	δ_1	6.20	9.80	3.60	3.77	325
	δ	6.87	9.86	2.99	3.16	358
	δ_2	6.42	9.84	3.42	3.59	337
	ϵ	7.34	9.90	2.56	2.73	387
	ϵ_3	7.09	9.90	2.81	2.98	374

No. 27	β_2	10.02	10.01 (-0.1)	Zero		
Bq 7.7	β_1	9.04	9.91	0.87	+0.08	-
	β	4.97	10.15	5.18	0.96	-
Zero	δ_2	3.47	10.30	6.83	5.27	261
corr. = +0.09	δ_1	3.20	10.20	7.00	6.92	162
	δ	3.32	10.26	6.94	7.09	159
	δ_2	3.20	10.20	7.00	7.03	154
	δ_1	3.24	10.11	6.87	7.09	159
	δ	3.46	10.05	6.59	6.96	165
	δ_2	3.37	10.19	6.82	6.68	197
	ϵ	3.83	10.04	6.21	6.91	161
	ϵ_3	3.78	9.98	6.20	6.30	209
					6.29	218

74

M. F. 7831

Zero 2.62 no 28

Diff

Curves

B3 6.6	B ₂	12.00	[11.70]	-0.30	-1.13	—
Zero corr	B ₁	11.90	[11.54]	-0.36	-0.19	—
= 0.17	B ₃	9.63	[11.70]	2.07	2.34	—
	δ_2	4.70	[11.93]	7.23	7.40	—
	δ_1	4.02	11.95	7.93	8.10	—
	δ	4.60	11.97	7.37	7.54	—
	δ_2	4.23	11.80	7.47	7.64	—
	δ_1	4.40	11.80	7.40	7.57	—
	δ	4.90	11.55	6.65	6.82	173
	[SE]	4.56	11.40	6.84	7.01	152
	E	5.20	11.12	5.92	6.09	227
	E3	4.82	11.20	6.38	6.55	200

Zero 2.73 no 29

B9 8.6

Too dark

B3p 5.5 no 7

Too dark

Zero 2.73 no 30

Faint Spectra superimposed

B3p

B ₂	11.22	11.28	0.06	0.12	—
B ₁	9.00	11.22	2.22	2.28	—
B	4.46	[11.80]	7.34	7.40	—
δ	3.51	11.40	7.89	7.95	—
δ_1	3.22	[11.88]	8.66	8.72	—
δ	3.29	11.64	8.35	8.41	—
δ_2	3.18	11.56	8.38	8.44	—
δ_1	3.17	11.60	8.43	8.49	—
δ	3.36	11.57	8.21	8.27	—
SE	3.27	11.40	8.13	8.19	—
E	3.63	10.80	7.17	7.23	—
E3	3.58	11.13	7.55	7.61	—

mi F. 7831

75

zero No 20

30
com
A

30
A
com

zero 2.76 No 31

Diff.

lim +0.03	B ₂	—	—		
B8 9.1	B ₁	—	—		curves
B	8.16	10.68	2.52	2.55	—
S ₂	6.45	10.77	4.32	4.35	296
S ₁	5.62	10.84	5.22	5.25	261
S	6.07	10.90	4.83	4.86	276
S ₂	5.60	10.80	5.20	5.23	260
S ₁	5.60	10.94	5.34	5.37	258
S	6.44	10.78	4.34	4.37	297
SE	6.06	10.32	4.26	4.29	303
E	7.22	10.43	3.21	3.24	251
E3	6.63	[10.28]	3.65	3.68	331

zero 2.78 No 32

A0 10.0

lim +0.01

B ₂	—	—			
B ₁	—	—			
B	—	—			
S ₂	7.62	10.22	2.60	2.61	394
S ₁	7.00	10.64	3.64	3.65	329
S	8.14	10.59	2.45	2.46	—
S ₂	7.23	10.50	3.27	3.28	353
S ₁	7.24	10.55	3.31	3.32	345
S	8.34	10.68	2.34	2.35	—
SE	7.80	10.78	2.98	2.99	375
E	8.82	10.69	1.77	1.78	—
E3	8.20	10.74	2.54	2.55	—

dirt on page plate

30
Cor
30
0.
B

M.F. 7831

79

zero 2.80 No. 33

			Diff		Curve
	B ₂	10.88	10.60	-0.28 - 0.29	-
Corr. = -0.01	B ₁	9.88	10.60	0.72 0.71	-
	B	4.66	10.74	6.08 6.07	226
B5 7.6	r ₂	3.26	11.33	8.07 8.06	-
	r ₁	3.14	11.62	8.48 8.47	-
	r	3.22	11.52	8.30 8.29	-
	S ₂	3.14	11.28	8.14 8.13	-
	S ₁	3.10	10.98	7.88 7.87	-
	S	3.22	10.96	7.74 7.73	-
	SE	3.18	10.69	7.51 7.50	-
	E	3.45	10.50	7.05 7.04	-
	E?	3.40	10.37	6.97 6.96	165

zero 2.79 No. 34

				Curve	
0.00	B ₂	10.77	$\left. \begin{array}{l} - \\ - \\ - \\ - \end{array} \right\} \begin{array}{l} (0.23) \\ (0.60) \\ (2.63) \\ (3.93) \end{array}$	-	-
B8 9.4	B ₁	10.40		-	dirt on plate
	B	8.37		-	396 "
	r ₂	7.07		-	313
	r	6.20	11.03	4.83	275
	r	6.41	11.00	4.59	289
	S ₂	6.04	11.04	5.00	266
	S ₁	5.74	11.02	5.28	262
	S	6.52	10.78	4.26	302
	SE	6.13	11.03	4.90	270
	E	6.85	-	(4.15)	306

m.F. 7831

81

Zero 2.77 7035

Diff.

Curve

+0.02 B₂ - -B5 7.1 B₁ - -

B - -

δ_2	3.37	[10.70]	7.33	7.35	-
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δ_1	3.13	11.06	7.93	7.95	-
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δ	3.16	11.24	8.08	8.10	-
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δ_2	3.12	11.24	8.12	8.14	-
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δ_1	3.12	11.28	8.16	8.18	-
------------	------	-------	------	------	---

δ	3.24	11.02	7.78	7.80	-
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SE	3.14	11.00	7.86	7.88	-
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E	3.40	11.20	7.80	7.82	-
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E3	3.33	10.90	6.57	6.59	202
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Zero 2.79 7036

0.00	B ₂	10.17	10.22	0.05	-
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Ad 9.5	B ₁	9.37	10.50	1.13	-
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B	8.98	10.84	1.86	-
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δ_2	6.69	11.06	4.37	297
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δ_1	5.70	10.90	5.20	259
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δ	6.36	11.09	4.79	282
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δ_2	6.03	10.97	4.94	271
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δ_1	6.03	11.20	5.17	265
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δ	6.70	11.02	4.32	295
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SE	6.30	11.03	4.73	279
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E	7.19	10.71	3.52	333
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E3	6.90	10.80	3.90	312
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m. F. 7831

83

Zero 2.797647

			Diff. dm		Curves
0.00	B ₂	10.98	10.27	-0.71	-
B ₉ 8.8	B ₁	9.41	9.96	0.55	-
	B	6.10	10.17	4.07	310
	γ ₂	4.97	10.06	5.09	270
	γ ₁	4.30	10.28	5.98	232
	γ	4.99	9.77	4.78	281
	δ ₂	4.44	9.84	5.40	252
	δ ₁	4.53	10.19	5.66	245
	δ	5.47	10.26	4.79	282
SE		4.96	10.49	5.53	248
E		6.20	10.30	4.10	304
E3		5.63	10.34	4.71	278

Zero 2.799237

0.00	B ₂	10.35	10.30	-0.05	-	-
B5 9.1	B ₁	10.13	10.29	+0.16	-	-
	B	7.46	10.33	2.87	382	382
	γ ₂	6.49	10.40	3.91	312	312 311
	γ ₁	5.61	10.55	4.94	271	271 268
	γ	6.04	10.27	4.23	300	300
	δ ₂	5.59	10.43	4.84	275	275 272
	δ ₁	5.67	10.53	4.86	276	276 271
	δ	6.30	10.50	4.20	299	299
SE		6.18	10.40	4.12	355	355 303
E		7.02	10.27	3.25	351	351
E3		6.80	10.33	3.53	334	334 330

Zero 2.78 No 38

Diff.

Curve

+0.01	B ₂	10.53	9.99	-0.54	-0.53	-
Ad 8.8	B ₂	9.63	10.03	0.40	0.41	-
	B ₃	6.60	10.28	3.68	3.69	331
	B ₂	5.07	10.39	5.32	5.33	257
	B ₁	4.20	10.32	6.12	6.13	220
	B	5.09	10.36	5.27	5.28	262
	S ₂	4.31	10.39	6.08	6.09	227
	S ₁	4.56	10.29	5.63	5.64	244
	S	6.00	10.21	4.21	4.22	300
	SE	5.05	10.10	5.05	5.05	268
	E	6.67	10.32	3.65	3.66	330
	E ₃	6.44	10.12	3.78	3.79	326

Zero 2.79 No 39

+0.00	B ₂	10.26	10.20	-0.06	-
Ad 8.3	B ₁	9.91	10.20	0.29	-
	B	5.47	10.20	4.73	279
	B ₂	3.68	10.16	6.48	208
	B ₁	3.30	10.09	6.79	192
	B	3.80	10.23	6.43	205
	S ₂	3.29	10.19	6.90	160
	S ₁	3.39	10.12	6.73	188
	S	4.20	10.01	5.81	233
	SE	3.67	10.00	6.33	210
	E	4.97	9.90	4.93	271
	E ₃	4.52	9.95	5.43	253

m + .7831

87

zero 2.74 7440

Diff.

Curv

+0.05	B ₂	10.18	10.04	-0.14	-0.09	-
At 8.8	B ₁	10.00	10.00	0.00	0.05	-
	B	6.17	10.19	4.02	4.07	310
	δ_2	5.19	10.10	4.91	4.96	272
	δ_1	4.23	9.94	5.71	5.76	240
	δ	4.85	10.19	5.34	5.39	259
	S ₂	4.30	10.09	5.79	5.84	235
	S ₁	4.33	10.10	5.77	5.82	234
	S	5.48	9.83	3.34	3.39	348
SE		4.86	9.84	4.98	5.03	267
E		6.29	9.83	2.54	2.59	-
E3		5.86	9.87	4.01	4.06	310

zero 2.79 7441

0.00	B ₂	10.53	10.26	0.33	-
At 8.0	B ₁	9.83	10.60	0.77	-
	B	4.99	10.86	5.87	236
	δ_2	3.38	11.00	7.62	-
	δ_1	3.13	10.98	7.85	-
	δ	3.40	10.94	7.54	-
	S ₂	3.10	11.16	8.06	-
	S ₁	3.15	10.95	7.80	-
	S	3.73	10.64	6.91	161
SE		3.31	10.67	7.36	-
E		4.08	10.75	5.67	245
E3		3.67	10.39	6.72	187

32
+
A

32
+
B

Zirc 2.78 no 42

Diff.

Curves

+0.01	σ_2	7.47	9.75	2.28	2.29	-
AD 9.2	σ_1	6.10	9.49	3.39	3.40	338
	σ	6.53	9.34	2.81	2.82	378
	σ_2	6.10	9.39	3.29	3.30	345
	σ_1	6.24	9.17	2.93	2.94	371
	σ	6.24	8.94	2.70	2.71	385
SE		6.17	9.12	2.95	2.96	373
E		6.81	9.00	2.19	2.19	-
E3		6.81	8.96	2.15	2.15	-

Zirc 2.79 no 43

+0.00	σ_2	10.16	10.07	-0.09	-
B8 8.2	B	9.90	10.06	0.16	-
	B	5.47	10.40	4.93	271
	σ_2	4.30	10.10	5.80	233
	σ_1	3.59	10.34	6.75	189
	σ	3.86	10.30	6.44	205
	σ_2	3.68	10.30	6.62	194
	σ_1	3.74	10.40	6.66	196
	σ	4.37	10.29	5.92	229
SE		4.10	10.11	6.01	223
E		4.89	10.00	5.11	262
E3		4.80	9.93	4.13	305

gro 280 No 44

Diff

Curves

-0.01	B ₂	10.79	10.17	-0.62	-0.63	-
B ₉ 8.8	B ₁	9.92	10.32	0.40	0.39	-
	B	5.73	10.40	4.67	4.66	284
	γ_2	4.88	10.44	5.54	5.53	248
	γ_1	4.17	10.28	6.11	6.10	219
	γ	4.89	10.14	5.25	5.24	260
	δ_2	4.31	10.15	5.84	5.83	234
	δ_1	4.36	(10.12)	(5.76)	4.37	297
	δ	5.53	9.74	4.38	4.54	287
SE		4.76	10.08	4.55	5.21	259
E		6.19	9.98	5.22	3.60	327
E ₃		5.64	9.80	3.61	4.14	305
			9.79	4.15		

gro 280 No 45

-0.01	B ₂	11.27	10.70	-0.57	-0.58	-
B ₃ 7.9	B ₁	10.79	10.73	-0.06	-0.07	-
	B	6.78	10.52	3.74	3.73	323
	γ_2	3.79	10.60	6.81	6.80	169
	γ_1	3.44	10.69	7.25	7.24	-
	γ	3.60	10.70	7.10	7.09	159
	δ_2	3.44	10.52	7.08	7.07	158
	δ_1	3.43	10.50	7.07	7.06	157
	δ	3.75	10.77	6.02	6.01	223
SE		3.69	10.63	6.94	6.93	163
E		4.12	10.53	6.41	6.40	203
E ₃		4.02	10.61	6.59	6.58	202

pero 2.80 nu 46

Diff

Curry

-0.01	B ₂	10.89	10.71	-0.17	-0.18	-
At 9.1	B ₁	10.62	10.28	-0.34	-0.35	-
	B	8.37	10.24	1.87	1.86	-
	δ_2	6.12	10.32	4.20	4.19	307
	δ_1	5.47	10.30	4.83	4.82	274
	δ	6.58	10.47	3.89	3.88	321
	S ₂	5.49	10.18	4.69	4.68	285
	S ₁	5.67	10.68	5.01	5.00	266
	S	6.63	10.56	3.93	3.92	313
	SE	5.92	10.67	4.75	4.74	280
	E	7.60	10.29	2.69	2.68	400
	E ₂	6.75	10.41	3.66	3.65	298

Zero 2.85 no 48

$-0.04 \quad \text{B}_2$

B9 10.3 B,

δ_2	8.40	10.59	2.19	.	2.15	-
δ_1	7.83	10.63	2.80	376	2.76	389
δ	8.58	10.70	2.12		2.08	-
δ_2	7.69	10.49	2.80	376	2.76	389
δ_1	7.70	10.84	3.14	356	3.10	354
δ	9.01	10.53	1.52		1.48	-
δ_6	8.10	10.49	2.39	-	2.35	-
δ	9.45	10.35	0.90		0.86	-
δ_3	8.72	10.33	1.61	-	1.57	-

m. F. 17831

95

Zero 2.87 m 49		Diff		Curves		Reduced	
-0.08	B ₂	11.09	11.00	-0.09	-0.17	-	..
B8	8.6 B ₁	8.90	10.92	2.02	1.94	-	..
	B	4.81	10.70	5.89	5.81	233	232
	B ₂	5.25	10.66	5.41	5.33	257	255
	B ₁	4.30	11.48	7.18	7.10	-	
	B	4.72	11.33	6.61	6.53	199	
	B ₂	4.40	11.37	6.97	6.89	184	161
	B ₁	4.54	11.10	6.56	6.48	208	199
	B	5.08	11.19	6.11	6.03	224	
	B ₂	4.36	10.60	5.24	5.16	264	260
	B	5.50	10.74	5.24	5.16	264	
	B ₃	5.40	10.60	5.20	5.12	263	262

Zero No

Book 27 p. 2

I 3830 3

Hyades. Provisional reduction

by standard curve

Star	Ident.	β	γ	δ	ϵ	ζ	$\bar{\beta}$	$\bar{\gamma}$	$\bar{\delta}$	$\bar{\epsilon}$	$\bar{\zeta}$	Mean AD 189	220	198	179
		$[\beta]$	$[\gamma]$	$[\delta]$	$[\epsilon]$	$[\zeta]$									
1		3.11	2.72	2.95	4.65	4.74	79	68	75	118	120	226	144	233	163
* 2		7.08	2.87	3.32	4.04	5.10	101	71	82	100	126	190	239	221	197
3		1.51	1.20	1.58	3.14	3.42	34	27	35	70	76	313	334	311	24
4		0.12	0.12	..	1.26	2.52	27	27	4	28	57	..	..	(500)	33
5		1.33	0.89	1.35	2.70	3.49	29	19	30	59	76	327	369	324	26
6		4.42	3.70	4.17	5.12	6.35	96	81	91	112	139	198	223	206	173
7		2.93	2.83	3.31	5.42	5.97	64	62	73	118	130	251	255	236	163
8		5.86	5.55	6.04	7.22	7.97	126	119	130	155	171	157	162	145	105
* 9		2.71	1.58	2.22	2.96	4.59	62	36	51	68	105	255	308	274	24
10															
11															
12															
13															
14															
15															
16															
17															
18															
* 19		5.13	5.74	5.36	6.22	7.23	125	110 105	130 130	152	176	153	148 184	145	110
20															
21															
22		0.40	0.53	1.24	4.24	5.74	11	14	33	114	154	421	399	316	170
23															
24															
25		1.89	^{1?} 2.74	2.31	4.06	4.61	53	^{49?} 77	65	114	130	271	^{278?} 229	249	170
26															
27															
28															
* 29		4.21	3.56	3.90	4.70	5.58	122	103	124	¹³⁷ 152	152	157	187	154	133

$$\text{Total (mean)} = \frac{1}{2}(16.98 + 16.49) - \frac{1}{2}(3.98 + 3.77) = 12.86$$

198 [8]	170 [ε]	128 [3]	β	γ	dm δ	for ε	5	Total	Class
233	163	160	+37	+24	+35	-3	+32	7.91	F5
221	142	151	+1	+19	+23	+22	+23	8.08	A0
311	241	231	+124	+114	+113	+71	+103	8.93	F0
(500)	330	263	..	..	+302	+160	+35	8.83	K0
324	260	231	+138	+149	+136	+90	+103	9.17	F0
206	173	130	+9	+3	+8	+3	+2	9.17	B9
236	163	145	+62	+35	+38	-7	+17	9.15	F5
145	105	77	-38	-58	-53	-65	-51	9.32	A2
274	244	184	+66	+88	+76	+74	+56	8.73	A0

This provisional reduction is made from Schilt measures with the aid of Mr Hogg's standard curve.

Evidently temperature can be derived by this method.

K0

145 110 67 8.21 A0

316 170 106 +232 +179 +118 0 -22 7.44 G5

249 170 145 +82 ~~+58~~ +51 0 +17 7.12 F8

154 133 110 6.88 A0

B 19160

Number Down

103

Star	S-E	-V	Cl	Dk	Volts
194	750 ⁶⁹	840	1123	163	516
195	609	693	1163	163	
144	217	182	1147	163	515
147	458	465	1152	163	
152	320	400	1169	160	
136	265	264	1132	160	515
119	184	480	1110	162	
44	536	239	1127	162	
98	373	174	1180	163	514
169	226	250	1180	162	
112	233	203	1126	163	
185	553	434	1152	162	
50	506	250	1175	163	513
158	367	200	1179	164	
87	708	621	1181	165	
213	405	260	1237	166	511
41	720	428	1176	X08	
160	601	309	1187	169	
150	[?] 11.71	599	1166	167	
60	442	237	1134	168	508
72	184	158	1157	159	507
58					
89					

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