

14

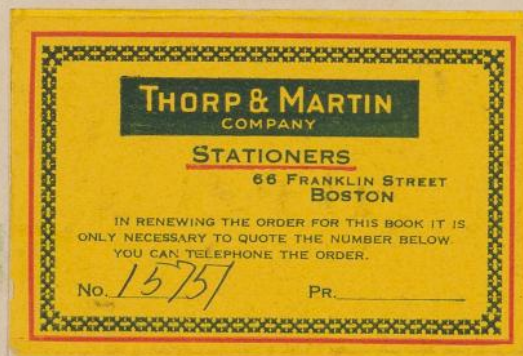
M.W.V.

MWF 179

1605-59

H.H. Swope

H.H. Reinberg



Rehnborg -

Swope

Rehnborg

May 1928 -

Swope

1935

INDEX

6-20 M W F 179

Discovery of New Variables by H.H. Reland
11 comparisons with one contact print

50-77 Positions

56 vars. ^{probable} der. (no list of known var.)
Not measured.

100 M W F 187

meas. of Variables by H. H. Swope.

86-89 B 226

2/8-220 "

Plate No.	Date	Quality	Exp.	Julian Day	
MF 8517	May 2, 1924	4	60 ^m	23908.772	Miss Wood's key plate
MF 8655	June 25, 1924	3i	60 ^m	23962.616	✓
MF 8768 ✓	Aug. 25, 1924	3i	60 ^m	24023.500	Finished Dec '28
MF 8783 ✓	Aug. 28, 1924	3i	61 ^m	24026.499	Finished Dec 14/28
MF 9458 ✓	June 24, 1925	3i	45 ^m	24326.649	Finished Nov '28
MF 10439 ✓	July 23, 1926	3+	45 ^m	24699.656	Finished Nov '28
MF 10455 ✓	July 5-6, 1926	4	45 ^m	24702.652	Finished 5/28
MF 10471	July 7-8, 1926	3+	45 ^m	24704.649	
MF 10487 ✓	July 9-10, 1926	5	45 ^m	24706.654	Finished Oct
MF 10531 ✓	July 15-16, 1926	3i	45 ^m	24712.563	Finished Oct
MF 10583 ✓	Aug. 2-3, 1926	4i	45 ^m	24730.528	Finished 5/28
MF 10605 (Aug.) (D20302)	Aug. 4-5, 1926	4i	45 ^m	24732.527	✓
MF 10667	Aug. 26-27, 1926	4	45 ^m	24754.495	✓
MF 10675 ✓	Aug. 28-29, 1926	4	45 ^m	24756.493	Finished Dec/28
MF 10758 ✓	Sept 6-7, 1926	4	45 ^m	24765.504	Finished 6/28
11698	May 19 1928		45 ^m	25386.400	
11740	23 1928		45 ^m	25390.397	
11796	June 12 1928		45 ^m	25410.422	

contact of	No.	Bright	Faint	Remarks -
MF 10605 +	1	10605	10455	v
MF 10455	2	10455	fainter 10605	Below + To the left of #1.
	3	10455	slightly fainter	v defect of contact
7 W ✓	4	10605	very faint	v not near anything - very bright
7 W	5	10605	hardly seen	v very bright
6 W	6	10605	" "	v very bright
	7	10605	not seen	v faint
✓	8	10605	" "	v northern of two
✓? ✓	9	10605	" "	v Very faint always
	10	10455	almost equal	v defect
	11	10605	not seen	v maybe star cluster defect
	12	10605	faint	v very small defect
	13	10605	not seen	v does not vary
✓ ✓	14	10605	faint	v very faint & small
	15	10605	very faint	v got vanishes
	16	10605	not seen	v defect
	17	10605	" "	v faint & small defect
	18	10605	faint	v defect
	19	10605	not seen	v due to two large stars
	20	10605	not seen	v very faint defect
	21	10605	faint	v faint
	22	10605	strong	v indistinct defect
	23	10605	not seen	v large & bright
	24	10605	" "	v no
	25	10605	" "	v
✓ ✓ ✓	26	10605	faint	v
	27	10605	faint	v defect
✓	28	10605	faint	v small & faint
	29	10605	not seen	v no
	30	10605	not seen	v no

Verifications

~~Br 10583~~
 Br 10439 SL Br 10471 this is probably an eclipsing var.
 Br 10583 fainter 10439 faint on 10531 Find another faint.
 Br 10583 fainter 10439 ^{med} Br 10471 7+9455 good
 Br 10583 very faint 10439 7W (uncovered)
 Br 10583 very faint 10439 faint 10531 IEW No 6
 Br 10439 SL 10471 - ft 9458 nt seen 8743
 Br 10583 fainter 10439 Br 10675 no 10471, 2783 ✓
 Br 10439 nt seen 8655 SL Br 10667 nt seen 8517 ft 10487 look up plates

Br 10439 fainter 10583 nt seen 8517 ft 10531 nt seen 8768 Br 10667

(Br 10583 slightly fainter 10439 Br 10675) - Cannot notice any real variation

Br 10583 ~~try to find another plate on which it is brighter~~
 slightly fainter 10439 ft 8783 ft 8768 Br 10471

try to find another plate on which it appears bright
 very faint on 10583, not seen on 10439

look up plates

Contact of	No	Bright	Faint	Remarks
MF 10605 + v	31	10605	not seen	v defect
MF 10455 ^{2w} cont.	32	10455	faint	v very dark
v	33	10605	very faint	v
✓	34	10605	not seen	v
v	35	10605	very faint	v
v	36	10605	very faint	v smaller than very bright
8w	37	10605	not seen	v very bright
v	38	10605	not seen	v small + clear defect
v	39	10605	not seen	v defect
v	40	10605	not seen	v small + faint defect
✓	38	10605	slightly fainter	v close to larger star

Contact of	No	Bright	Faint	Remarks
MF 10605 + ✓	41	10605	fainter	v very bright on 10605
MF 10583 ✓	42	10583	much fainter	v much
✓	43	10605	hardly seen	v very slight variation

Contact of	No	Bright	Faint	Remarks
MF 10605 +	44	10758	fainter	v very large bright on 10758
MF 10758	45	10758	fainter	v very small
	46	10605	fainter	v
	47	10758	fainter	v very small star
	48	10758	slightly fainter	v
10w	49	10605	hardly seen	v very good
	50	10758	fainter	v
✓	51	10758	much fainter	v very bright but small
✓	52	10605	fainter	v (faint)
✓	53	10758	fainter	v very slight difference

Verifications

Br 10439 fainter 10583 $\frac{1}{2}$ IEW #2
 med br 10758 Br 10531 ft 8768 ft 8783 med br 8655 OK
 Br 10583 faint 10439 nt seen 8517 med 10667 nt seen 8783 Br 10758 OK
 Br 10583 fainter 10439 Br 10758 ft 10531 Br 9458 ft 10487 OK
 Br 10583 just seen 8517 ft 9458 just seen 8783 med br 10531 OK
 Br 10583 much fainter 10439 IEW No 8

Br 10583 fainter 10439 Br 10758 ft 8768 med br 10667 ft 9458 OK

Br 10455 fainter 10439, faint on 10531

Br 10455 + bright on 10439

→ faint on 10439

3 var

no variation in 10667 & 10583 Br 8783 2 Br 10667 Br on 10531 Br 10439 Br 8768

very slight, if any, variation in 10667 & 10583

Def. of 10667

same, possibly with a variation no variation

Br 10667 slightly fainter 10583 not weighed

Def. of 10667

Br 10583, fainter 10667

IEW #010

no difference

Def. of 10667

Br 10667, fainter 10583. Br 10439 P

Probably slightly fainter 10583

Br 10583 fainter 10667

Context of	No	Bright	Faint	Remarks
MF 10605+	54	10605	very faint	...
MF 10758 Cont.	55	10758	fainter	...
✓	56	10758	fainter	...
✓	57	10758	barely seen	very good
✓	58	10758	fainter	small
✓	59	10758	fainter	...
✓	60	10758	fainter	small
✓	61	10758	fainter	small not bright
✓	62	10758	fainter	good

Verification

~~practically no difference in 10667 & 10583~~ defist

Br 10667 fainter 10583 very faint 10531 very Br 9458 ft 49038

Br 10583 fainter 10667 Br 10531 Br 10487

Br 10667 much fainter 10583 IEW No 3

Br 10667 fainter 10583

Br 10667 fainter 10583

Br 10667 much fainter 10583

Br 10667 much fainter 10583 not seen 49056

Br 10667 fainter 10583 IEW No 27

Intact of	No.	Bright	Faint	Remarks
MF 10605 + X	63	10667	10605	
MF 10667. X	64	10667	hardly any	
	65	10667	fainter	defect of film
	66	10667	fainter	defect of film
	67	10667	much fainter	" " "
	68	10667	fainter	" " "
✓ X	69	10667	slightly fainter	
	70	10667	fainter	defect of film
	71	10667	fainter	
	72	10667	much fainter	
	73	10667	fainter	
	74	10667	slightly fainter	
	75	10667	" "	
	76	10605	fainter	
	77	10667	slightly fainter	
	78	10605	much fainter	
	79	10667	much fainter	
✓	80	10667	fainter	
✓	81	10667		
✓ or	82	10667	slightly	
✓ or	83	10667	fainter	
✓	84	10667	fainter	within circle of bristol
✓	85	10667	fainter	
✓	86	10667	fainter	
✓	872W	10667	fainter	

Verification

MF 10583 + 10675 -

Looks like eclipsing on A-plate 7438.

Br 10531 Slight, Br 10487 slight, Br 10439

Br 10583 faint 10675

Br 10583 Br 10675 ft 9458 ft 10439,

Br 10583 faint 10675

Br 10583 slightly fainter on 10675

Br 10583 " " " 10675

Br 10583 fainter 10675 defect near -

Br 10583 much fainter 10675.

Br 10675 slightly fainter on 10583.

Br 10583 slightly fainter 10675

Br 10583 Does not vary

Br 10583 Br 10439 Br on 10531 Does not vary

Br 10583 fainter 10675 ft 8768, Br 10531,

Br 10675 much fainter

Br 10583 fainter 10675

varies? No

Br 10583 much fainter 10675

Miss Wood's #11

Br 10675 much fainter 10583

duplicate of #5-1

defect of MF 10667

Br 10675 slightly fainter 10583 faint on 10531

Br 10583 fainter 10675

fainter 10487

Br 10583 ft 10471

Br 10583 ft 8768 Br 10758 used by 10675 ft 10531

Br 10583 much fainter

good Br 10531 Br 10439 Miss Wood's #26

Content of	no.	Bright	Faint	Position	
MF 10605	✓ 88	10531	10605		short per - Br
MF 10531	✓ 89	slightly on 10531	10605		
	91	slightly on 10531	10605		
✓ 92	✓	hnd 10531	10605		2 close together good size
may vary	93	10605	10531		very small
	94				
	97	very br 10605	mc faint 10531		
	98	very br 10531	fainter 10605		
	99	10531	10605		very small
✓ 100	✓	10531	10605		
	102	10605	10531		
	103	10605	10531		
	104				
may vary	✓ 105	10605	10531		
	106	10605	10531		
	107	10605	10531		very small but distinct
	108	10605	10531		
	109				
	110	10605	10531		
	112	10605	10531		
✓ 113	✓	10605	10531		good
✓ 114w	✓	10531	10605		
	115	10605	10531		
	116	10531	10605		
	117	10605	10531		
	122	10605	10531		slipping
	118	10531	10605		
	119	10531	10605		
✓ 120	✓	10531	10605		
✓ 121	✓	10531	10605		

Verifications

- Br 10583 Fainter 10487 ✓
- no Br 10487 Ftr 10583 ✓
- no defect of 10605
- Br 10487 Fainter 10583 Slightly Br 10439 Br 9458 Fx 10471
- Br 10583 Fainter 10487 Fainter 8768 Br 10667 Does not vary ~~varies~~ ✓
- no scratch ~~no~~ defect of 10531
- Br 10583 no variation ~~varies?~~ slightly
- defect in film of 10605
- Br 10487 Fainter 10583 ✓
- Br 10583 Fainter 10487 scratch in 10531
- Br 10583 slightly fainter on 10487
- Br 10583 fainter on 10487 F 8783 Br 10667 belly defect of 10605? no
- Br 10583 Fainter 10487 curious round fuzzy image Known star cluster
- Br 10583 fainter on 10487 does not vary
- Br 10583 slightly fainter varies? no
- Br 10583 F 10487 Br 10455 F 8768 Br 10758 varies? no
- Br 10583 F 8768 Br 10758 varies? yes
- Br 10583 " F 10487 ✓
- Br 10487 fainter 10583 Br 10439 Miss Wood's 892 think
- 2 varies? no
- Is there a defect on 10531? defect of 10605
- 2 varies? no
- Br 10583 fainter 10487 F 8517 F 10439 Br 10667
- Br 10583 much fainter 10487 defect of 10531
- Br 10583 much fainter 10487 defect of 10531
- Br 10583 slightly fainter 10487 ✓
- Br 10583 fainter 10487 Fx 10583 Br 10487

contact of	no.	Bright	Faint	Position	defect of MF 10487	
MF 10605 + defect	122	10605	10487	lower of 2 stars close together	defect of MF 10487	Br
MF 10487 defect	123	10605 mc	10487	✓	defect of MF 10487	Br
defect	124	10487	10605	✓	defect in film of MF 10605	Br
defect	125	10487 sh	10605	✓	" " " "	
defect	126	10487	10605	✓	defect of plate of MF 10487	Br
	128	10487	10605	✓		Br
defect	129	10487 sh	10605	✓	defect in film of MF 10605	Br
✓	130	10487	10605	✓		Br
defect	131				defect	"
"	132	10487 sh	10605	✓	defect of 10487	
	133	10487	10605	✓		mc
contact of ✓	134	10439	10605	✓		Br
MF 10605 +	135	10605	10439	✓	very faint + doubtful	
MF 10439						
contact of	136	10605	9458	✓	very bright on 10605 but	no
MF 10605 +	137	10605	9458	✓		Br
MF 9458	138	10605	9458	✓		Br
1? ✓	139	9458	10605	✓	good	Br
	140	10605	9458	✓		
contact of	141	10605	10667	✓		Br
MF 10605 +						
MF 10675						
contact of						
MF 10605 + ✓	142	10605	8768		not near anything	Br
MF 8768						

Verifications

Br 10531 sl. fainter 10439
 Br 10531 fainter 10439
 Br 10531 fainter 10439
 cant tell
 Br 10531 fainter 10439
 Br 10439 ~~fainter~~ 10531 Br 10439 ^{find another minimum} Ht. 10675 n. on A-2712
 Br 10439 slightly fainter 10531
 Br 10531 faint 10439 Br A13993 ✓

cant tell

Ht 10531 & 10439

med Br 10439 fainter 10531 in refraction circle Br 9768 Miss Woods #15

#9458

Br 10487 almost not seen 9458 fairly Br 10531, Br 8783 Ht A13993 ✓
 no variation

not verified - does not vary

Br 10439 Ht. 10531 does not vary

Br 10439 Ht 10531 but very slight variation - faint. does not vary

Br 8655 Ht 10439 med Br 10471 " " med Br A9056 v. Br A9038 ✓

" " " " " "

does not vary

Br 10667 v. Ht. 8768

X 11 W

Br 10667 v. Ht 8517 Ht 8655 ✓

Contact of HAR	no	Bright	Faint	Position
605 + 130 ✓	143	8783	10605	→ ✓
MF 8783 ✓	144	8783	10605	→ ✓

Verifications

Pr 10439 Ft 9458 Pr

Ft 8517 same as 130? yes ✓

Pr 10439 Ft 8768 ✓

Plate A2663 - 80, 14, 128, 52, 53, 83, 82, 113, 84, 85, 142, 134, 56, 26, 86, 43, 35, 34
55, 28, 58, 38, 120

50 No.

A2663

14

39.6850

 $15^h 48^m 28.2 - 39^\circ 36.4$

3.0

7.0

39.6856

 $15 49 20.2 - 39 18.0$

6.8

11.3

52.0

18.4

9.8

18.3

 $15^h 48^m 44.2 - 39^\circ 29.4$

16.0

7.0

 $15^h 48^m 49.2 - 39^\circ 29.4$

36.0

11.4

+ 1 39.6

4.7

52.0

18.4

 $15^h 50^m 23.8 - 39^\circ 34.1$

80

39.6844

 $15^h 46^m 51.7 - 39^\circ 53.1$

15.3

2.7

39.6737

 $15^h 44 41.8 - 39. 30.9$

10.3

19.3

 $2^m 9.9 (129.9)$

22.2

25.6

22.0

 $15^h 45^m 33.7 - 39^\circ 50.4$

78.0

2.7

 $15^h 45^m 33.8 - 39^\circ 50.4$

52.0

19.5

1 39.3

4.9

130.0

22.2

 $15^h 47^m 13.1 - 39^\circ 55.3$

42

38.6346

 $15^h 55^m 16.0 - 38^\circ 37.9$

11.2

32.5

39.6870

 $15 54 7.2 - 39 16.9$

2.7

7.0

 $1^m 8.8$

39.0

13.9

39.5

 $15^h 54^m 20.5 - 39^\circ 9.9$

55.5

32.0

 $15^h 54^m 20.6 - 39^\circ 9.9$

13.4

7.0

1 39.9

4.5

68.9

39.0

 $15^h 56^m 00.5 - 39^\circ 14.4$

86	37.6643	16 ^h 0 ^m 45 ^s .0	37° 44'.7	9.5	14.4
	37.6641	15 ^h 59 ^m 30 ^s .8	37° 24'.2	4.6	6.4
		1 ^m 14.2	20.5	14.1	20.8

15 ^h 59 ^m 55 ^s .0	- 37° 30'.5	5.0	14.2
15 ^h 59 ^m 54 ^s .8	- 37° 30'.5	2.4	6.3
1	38.83	4.5	74
16 ^h 1 ^m 33 ^s .1	37° 35'.0		20.5

82	38.6298	15 ^h 47 ^m 37.0	- 38° 38'.0	8.6	15.5
	39.6845	15 46 52.7	- 39.1.4	.3	8.0
		44.3	23.5	8.9	23.5

15 ^h 46 ^m 54 ^s .3	- 38° 53'.5	42.7	15.5
15 ^h 46 ^m 54 ^s .2	- 38° 53'.5	1.5	8.0
1	38.4	4.8	44.2
15 ^h 48 ^m 38 ^s .1	- 38° 58'.3		23.5

83.	38.6285	15 ^h 45 ^m 13 ^s .7	- 38° 13'.1	24.2	6.2
8	38.6280	15 41 51.8	- 38° 33'.2	15.0	14.8
		3 ^m 21.9 (202)	20.1	39.2	21.0

15 ^h 43 ^m 8 ^s .7	- 38° 19'.0	12.5	5.9
15 ^h 43 ^m 8 ^s .8	- 38° 19'.0	77	14.2
1	38.2	4.7	20.2
15 ^h 44 ^m 47 ^s .0	- 38° 23'.7		20.1

142

37.6601

15^h 49^m 46.^s1

- 37° 18.6' 15.2 8.5

37.6597

15^h 47^m 14.^s8

- 37° 40.3' 14.6 13.5

2^m 31.3 (151.3) 21.7 29.8 22.015^h 48^m 29.^s1

- 37° 27.0' 77.0 8.4

15^h 48^m 28.^s8

- 37° 27.0' 74 13.3

RM/np

1 37.7

4.8 151.0 21.7

15^h 50^m 6.^s5

- 37° 31.8'

53

39.6896

16^h 0^m 52.^s6

- 39° 18.6' 5.0 2.0

38.6367

15^h 58^m 11.^s0

- 38° 55.1' 26.0 22.6

2^m 41.6 (162.) 23.5 31.0 24.616^h 0^m 26.^s6

- 39° 16.7' 26.0 1.9

16^h 0^m 27.^s0

- 39° 16.7' 13.6 21.6

1 40.3

4.4

162.0 23.5

16^h 2^m 7.^s3

- 39° 21.1'

105	40.7339	16 ^h 21 ^m 56. ^s 6	- 40° 22.7	7.5	3.0
	40.7333	16 ^h 20 ^m 29. ^s 6	- 40° 13.9	9.1	6.0
		1 ^m 27. ^s 0 (8.7)	8.8	16.6	9.0

16 ^h 21 ^m 17. ^s 4	- 40° 19.8	39.2	2.9
16 ^h 21 ^m 17. ^s 4	- 40° 19.8	47.8	5.9
1 42.8	3.4	87.0	8.8
16 23 00.2	- 40° 23.2		

130	40.7250	16 ^h 6 ^m 59. ^s 8	7.8	40.0
	39.6906	16 ^h 5 ^m 23. ^s 7	11.0	56.0
		1 ^m 36.1 (96.1)	18.8	96.0

40.7247	40° 15.3	6.7	.7
40.7250	40° 4.7	9.9	10.2
	10.6	10.6	10.9

16 ^h 6 ^m 19. ^s 8	- 40° 14.6
16 ^h 6 ^m 19. ^s 7	- 40° 14.9
1 41.9	3.9
16 8 01.8	- 40° 18.7

144	40.7247	16 ^h 6 ^m 15 ^s .3	-40° 15.3	7.2	13.2
	40.7240	16 3 34.0	-40 44.9	26.8	17.5
		2 ^m 41.3 (16.1)	29.6	34.0	30.7

16	5	41.1	-40° 28.0	34.2	12.7
16	5	41.0	-40 28.0	127	16.9
	1	41.9	3.9		
16	7	23.8	-40 31.9		

51	40.7247	16 ^h 6 ^m 15 ^s .3	-40° 15.3	21	23.7
	40.7240	16 ^h 3 ^m 34 ^s .0	-40° 44.9	13.0	7.0
		2 ^m 41.3	- 29.6	34	30.7

16	4	35.7	-40 28.0	99.6	12.7
16	4	35.7	-40 28.0	61.7	16.9
	1	41.8	4.0		
16	6	17.5	-40 32.0		

69	42.7335	16 ^h 8 ^m 50 ^s .7	-42° 20.7	2.8	13.1
x	41.7453	16 ^h 9 ^m 45 ^s .2	-41° 40.1	6.2	28.1
		54.5	40.6	9.0	41.2

16	9	07.7	-42 07.8	17	12.9
16	9	07.7	-42 07.8	37.5	27.7
	1	44.1	3.8		
16	10	52.8	-42 11.6		

Plate A9038

55

43 ✓

36.6924

15^h 55^m 20.6

- 36° 3'.8

12.5^x11.5^g

35.6647

15 54 50.5

- 35 39.0

4.2

13.1

30.1

24.8

6.7

24.6

15 55 09.4

-35 52.2

11.2

11.6

15 55 09.4

-35 52.2

18.9

13.2

$$\begin{array}{r} 1 \\ 37.2 \\ \hline 15 \ 56 \ 46.6 \end{array}$$

$$\begin{array}{r} 4.4 \\ \hline -35^\circ 56.6 \end{array}$$

15 56 47 ✓

61 ✓

35.6675

16^h 2^m 56^s.3

-35° 34'.2

9.2

9.9

35.6672

16^h 1^m 52^s.3

-35° 18.4

4.0

6.0

1^m 4.0 (64)

15.8

13.2

15.9

16 2 11.7

-35° 24.8

44.6

9.9

16 2 11.7

-35° 24.4

19.4

6.0

$$\begin{array}{r} 1 \\ 37.6 \\ \hline 16 \ 3 \ 49.3 \end{array}$$

$$\begin{array}{r} 4.2 \\ \hline -35^\circ 28.6 \end{array}$$

38

35.6652

15^h 57^m 18^s.3-35° 18^s.5

17.0

12.8

35.6649

15 55 24.5

35° 1.8

6.8

11.8

1^m 53.8 (114)

16.37

23.8

4.8

15 55 57.1

$$\begin{array}{r} -35^\circ 05.7 \\ \hline -35^\circ 06.8 \end{array}$$

81.2

12.8

15 55 57.1

$$\begin{array}{r} -35^\circ 06.5 \\ \hline -35^\circ 05.8 \end{array}$$

32.6

11.7

$$\begin{array}{r} 1 \\ 37.2 \\ \hline 15 \ 57 \ 34.3 \end{array}$$

$$\begin{array}{r} 4.4 \\ \hline -35^\circ 10.2 \end{array}$$

4.4

56

RA

Dec

34

35.6653

15^h 57^m 18.^s3

-35° 18.5

15.8

8.6

35.6647

15^h 54^m 50.5

-35° 39.0

14.0

12.5

2^m 27.8 (148)

20.5

29.8

21.1

15 55 59.9

-35 26.8

78.4

8.3

15 55 59.9

-35 26.8

69.4

12.2

1 37.2

4.4

15 57 37.7

-35° 31.2

121

34.6458

16^h 0^m 52.1

-34° 26.5

3.8

15.5

34.6457

16^h 0 25.1

34 49.6

1.8

7.8

27.0

23.0

5.6

23.3

16 0 33.8

-34 41.9

18.3

15.4

16 0 33.8

-34 41.9

8.7

7.7

1 36.5

4.3

16 2 10.3

-34° 46.2

28

35.6639

15^h 51^m 50.5

-35° 56.4

17.5

6.6

35.6632

15^h 48^m 59.6

-35° 39.5

18.5

15.4

2 50.9 (170.9)

22.9

36.0

22.0

15 50 27.5

-35° 49.5

83

6.9

15 50 27.5

-35 49.5

87.9

16

1 36.9

4.6

15 52 04.7

-35° 54.1

139

36.6953

16 2 35.6

-36 37.5

1.3

10.5

36.6948

16 1 52.6

-36° 18.3

7.5

8.6

43.0

19.2

8.8

19.1

16 2 29.2

-36 27.0

6.4

10.5

16 2 29.2

-36 26.9

36.6

8.6

1 38.3

4.2

16 4 07.5

-36° 31.1

35

35.6660

15^h 59^m 00.8

-35° 48.1

7.6

9.0

35.6656

15 58 0.8

35° 26.8

4.8

13.0

1^m

27.5

12.4

22.0

15 58 24.1

-35° 39.1

36.7

9.0

15 58 24.1

-35 39.0

23.3

12.6

1 37.4

4.3

16 00 01.5

-35° 43.3

13.0

59

34.6413

15 46 16.1

-34° 1.7

4.5

27.0

34.6410

15 45 12.4

-34° 30.1

7.3

2.4

1^m 3.7 (63.7)

28.4

11.8

29.4

34.6415

15 47 18.9

-34 16.6

18.0

12.0

34.6410

15 45 12.4

-34° 30.1

7.3

2.4

2^m 6.5 (126)

13.5

25.3

14.4

15 45 48.9

-34° 27.8

9.0

11.2

15 45 48.9

-34 27.8

36.5

2.3

1 35.9

4.7

15 47 25.8

-34° 32.5

58

33

35.6635	15	50	0.0	35° 10' 2	4.2	3.0
35.6632	15	48	59.6	35° 33' 5	7.6	21.0
			1 ^m 00 A(60)	23.3	11.8	24.0

15	49	38.5	-35°	13.0	21.5	28
15	49	38.5	-35°	13.0	38.9	20.5
	1	36.8		4.0		
15	51	15.8	-35°	17.6		

55

36° 6896	15	47	49.1	-36	3.8	29.9	8
35.6617	15	44	9.2	-35	51.9	15.2	1.9
		3	39.9		17.9	45.1	9.9

15	45	23.1	-35	54.2	146	9.6
15	45	23.2	-35	54.2	74	2.3
	1	36.7		4.7		
15	46	59.8	-35°	58.9		
15	47	00				

26

-36.6890	15	45	11.6	-36	29.8	15.9	7.2
-36.6896	15	47	49.1	-36	3.8	14.8	20.2
		2 ^m	37.5		26.0	30.7	27.4

15	46	32.6	-36	23.0	81	6.8
15	46	33.1	-36	23.0	76	19.2
	1	37.4		4.6		
15	48	10.2	-36°	27.6		

134

-37.6596

-36.6900

15 46 42.5

$$\begin{array}{r} 15 \quad 49 \quad 11.0 \\ \hline 2^m \quad 28.5 \end{array}$$

15 48 48.8

15 48 48.4

1 38.3

15 50 26.9 ✓

15 50 27

-37 8.6

$$\begin{array}{r} -36 \quad 49.2 \\ \hline 19.4 \end{array}$$
~~-37 00~~~~-36 59.6~~~~-36 59.5~~~~-37 00~~

4.6

-37° 04.6 ✓

24.6

$$\begin{array}{r} 4.4 \\ \hline 29 \end{array}$$

126.3

22.6

9.11

$$\begin{array}{r} 11.4 \\ \hline 20.5 \end{array}$$

8.6

7.0

10.8

(56 -36.6900
 wrong star → -36.6897

15 49 11.0

$$\begin{array}{r} 15 \quad 47 \quad 56.5 \\ \hline 1 \quad 24.5 \end{array}$$

-36 49.2

$$\begin{array}{r} -36 \quad 31.4 \\ \hline 17.8 \end{array}$$

15.6

$$\begin{array}{r} 0.2 \\ \hline 15.8 \end{array}$$

✓

-35.6624

58

-35 6617

15 47 11.6

$$\begin{array}{r} 15 \quad 44 \quad 9.2 \\ \hline 3 \quad 02.4 \end{array}$$

-35 14.9

$$\begin{array}{r} -35 \quad 51.9 \\ \hline 37.0 \end{array}$$

16.5

$$\begin{array}{r} 19.5 \\ \hline 36 \end{array}$$

14

$$\begin{array}{r} 24.6 \\ \hline 38.6 \end{array}$$

15 45 48.0

15 45 48.2

1 36.7

15 47 24.8 ✓

15 47 25

-35 28.1

-35 28.1

4.7

-35° 32.8 ✓

83.6

99

13.2

23.8

60

✓ 120	34.6431	15 52 45.9	✓ -34 56.4	1.8	.4
	34.6444	15 54 38.9	-34 57.3	20.8	5
		<u>1 53.0</u>	<u>5.1</u>	<u>22.6</u>	<u>57.4</u>
		15 52 54.9	-34 56.1	9	.3
		15 52 54.9	-34 56.1	104	4.7
		<u>1 36.3</u>	<u>4.4</u>		
		15 53 41.2	-35° 00.5		
		54 31			

60	-34.6429	15 51 38.4	-34 25.9	15	11.3
	-34.6437	15 53 55.4	-34 41.1	13.6	3.4
		<u>27 17.0</u>	<u>15.2</u>	<u>28.6</u>	<u>14.7</u>
		15 52 50.4	-34 37.6	72	11.7
		15 52 50.4	-34 37.6	65	3.5
		<u>1 36.3</u>	<u>4.4</u>		
		15 54 26.7	-34° 42.0		
		15 54 27			

36	-35.6653	15 57 18.3	-35 18.5	18	25.5
	-34.6458	16 0 52.1	-34 26.5	26	27.2
		<u>3 33.8</u>	<u>52.0</u>	<u>44</u>	<u>52.7</u>
		15 58 45.6	-34 53.3	87.3	25.2
		15 58 45.9	-34 53.3	125.8	26.2
		<u>1 36.5</u>	<u>4.3</u>	<u>126.2</u>	
		16 00 22.3	-34° 57.6		

✓
3W

37.6617	15 54 7.6	-37 6.9	3.9	10.1
36.6913	15 53 11.1	-36 37.1	8.1	19.6
	56.5	29.8	12	29.7
	15 53 49.2	-36 56.8	18.4	10.1
	15 53 49.1	-36 56.8	38	19.7
	1 38	4.2		
	15 55 27.1 ✓	-37° 01.0 ✓		

2

26W

36.6935	15 58 29.1	-36 8.4	4.5	4.3
35.6665	15 59 54.3	-35 53.7	12.8	10.7
	1 23.2	14.7	17.4	15.
	15 58 51.6	-36 04.2	22.5	4.2
	15 58 51.6	-36 04.2	62.7	10.5
	1 38.1	4.3		
	16 00 30.8 ✓	-36° 08.5 ✓		

✓

1W

35.6703	16 14 33.2	-35 51.8	9.6	15.1
35.6700	16 12 10.7	-35 22.8	18.7	14.9
	2 22.5	29.0	28.3	30
	16 13 44.8	-35 37.2	48.4	14.6
	16 13 44.8	-35 37.2	94.1	14.4
	1 38	3.8		
	16 15 23. ✓	-35° 41.0 ✓		

62

8 W

35.6683

16 5 55.8

-35 26.5

12

4.8

35.6679

16 3 43.8
20 12.0-35 16.7
9.814.7
26.75
9.8

16 4 56.5

-35 21.7

59.3

4.8

16 4 56.5

-35 21.7

72.7

5.

1 37.7

16 6 34.

4.1

-35° 25.8

2 W

35° 6624

15 47 11.6

-35 14.9

9.6

12.7

34° 6412

15 45 53.9
1 17.7-34 53.2
21.77.3
16.95.5
21.2

15 46 27.5

-35 01.9

44.1

13.

15 46 27.5

-35 01.9

33.6

8.7

1 36.7

15 48 04.

4.6

-35° 06.5

Plate A. 2712

63

92	-42 7360	16 12 37.2	-42 34.5	20.2	5.4
	-42 7335	16 8 50.7	-42 20.7	21.5	8.6
		3 46.5	13.8	41.7	14
		16 10 47.7	-42 29.2	109.5	5.3
		16 10 47.2	-42 29.2	116.5	8.5
		1 44.1	3.8		
		16 12 32. ✓	-42° 33.0 ✓		

69	-42 7335	16 8 50.7	-42 20.7	2.3	12.4
	-41 7453	16 9 45.2	-41 40.1	7.7	28.6
		54.5	40.6	10	41
		16 9 03.2	-42 08.5	12.5	12.2
		16 9 03.2	-42 08.5	42	28.4
		1 44.1	3.8		
		16 10 47. ✓	-42° 12.3 ✓		

16W	-41 7423	15 59 1.7	-41 34.0	17.2	13.4
	-40 7230	16 1 19.8	-40 49.4	7.5	32.4
		2 18.1	44.6	24.7	45.8
		16 0 38.1	-41 21.0	96.4	13
		16 0 37.8	-41 21.0	42	31.6
		1 42.2	4.2		
		16 2 20. ✓	-41° 25.2 ✓		

Plate 13993

✓ 4W	38° 6391	16 7 9.7	-38 13.1	✓ 5.6	7
	38° 6393	16 8 5.7	-38 25.1	5.4	5.2
		56.0	12.0	11	12.2
		16 7 38.2	-38 20.0	28.5	6.9
		16 7 38.2	-38 20.0	27.5	5.1
		1 40.2 ✓	4.0		
		16 9 18.	-38° 24.0 ✓		

✓ 100	41° 7445	16 7 01.5	-41 19.8	✓ 19.1	12
	40° 7242	16 3 44.3	-40 49.4	18.2	19
		3 17.2	30.4	37.3	31
		16 5 20.5	-41 08.0	101	11.8
		16 5 20.3	-41 08.0	96	18.6
		1 42.6 ✓	4.3		
		16 7 03.0	-41° 12.3		

16W	41° 7423	15 59 1.7	-41 34.0	✓ 18.1	14.2
	40° 7230	16 1 19.8	-40 49.4	7.4	31.2
		2 18.1	44.6	25.5	45.4
		16 0 39.7	-41 20.0	98	14
		16 0 39.7	-41 20.0	40.1	30.6

✓ 9	41° 7413	15	55	36.2	-41	21.7	✓ 8.3	17
	40 7179	15	53	51.4	-40	44.5	12.4	20
			1	44.8		37.2	20.7	37
		15	54	54.2	-41	04.6	42	17.1
		15	54	53.9	-41	04.6	62.5	20.1
			1	42.0		4.4		
		15	56	36.	-41°	09.0		

✓ 8	40° 7179	15	53	51.4	-40	44.5	✓ 9.6	3
	40° 7167	15	52	15.0	-40	39.9	9.2	11.2
			1	36.4		4.6	18.8	4.2
		15	53	02.1	-40	41.3	49.3	3.2
		15	53	01.7	-40	41.3	46.7	1.4
			1	41.1		4.4		
		15	54	43.	-40°	45.7		

✓ 5W.	40° 7149	15	48	31.4	-40	41.7	1.5	4.5
	40° 7152	15	48	52.5	-40	33.7	2.2	3.8
				21.1		8.0	3.7	8.3
		15	48	39.9	-40	37.3	8.5	4.4
		15	48	39.9	-40	37.4	12.6	3.7
			1	40.9		4.5		
		15	50	21.	-40°	41.9		

6W

 $41^\circ 7380$
 $40^\circ 7137$
 ~~739.5~~
 $15 \ 45 \ 51.9$
 $15 \ 46 \ 58.6$
 ~~54.7~~
 ~~06.7~~
 ~~20.9~~
 ~~20.5~~
 $15 \ 46 \ 28.4$
 $1 \ 41.6$
 $15 \ 48 \ 18.8$
 0.6
 $-41 \ 20.9$
 $-40 \ 58.9$
 22.0
 22.0
 $-41 \ 09.0$
 $-41 \ 10.5$
 4.6
 $-41^\circ \ 13.1$
 14.1
 5.6
 ~~5.9~~
 22.4
 11.5
 ~~32.5~~
 34.2
 145.9
 11.8
 ~~12.2~~
 19.9
 14.2
 22.77
 11.4
 11.9
 10.6
 11.0

11W

 $45^\circ 7127$
 $45^\circ 7140$
 $15 \ 45 \ 41.3$
 $15 \ 47 \ 31.0$
 $1 \ 49.7$
 $15 \ 46 \ 18.3$
 $15 \ 46 \ 18.8$
 $1 \ 40.5$
 $15 \ 47 \ 59.$
 $-40 \ 40.0$
 $-40 \ 24.9$
 15.1
 $-40 \ 32.7$
 $-40 \ 32.7$
 4.6
 $-40^\circ \ 37.3$
 6.8
 13.3
 20.1
 37
 72.2
 7.7
 8.3
 16
 7.3
 7.8

86

 $37^\circ 6643$
 $37^\circ 6641$
 $16 \ 0 \ 45.0$
 $15 \ 59 \ 30.8$
 $1 \ 14.2$
 $15 \ 59 \ 54.4$
 $15 \ 59 \ 54.6$
 $1 \ 39$
 $16 \ 01 \ 34.$
 $-37 \ 44.7$
 $-37 \ 24.2$
 20.5
 $-37 \ 30.6$
 $-37 \ 30.5$
 4.2
 $-37^\circ \ 34.8$
 10.1
 4.8
 14.9
 52.6
 23.8
 14.1
 6.3
 14.1
 6.3

✓ 9W	38°6338	15	53	52.1	-38	34.1	4.2	8.7
	38°6330	15	53	<u>7.1</u>	-38	<u>16.0</u>	<u>5.4</u>	<u>9.5</u>
				45.0		18.1	9.6	18.2
		15	53	32.4	-38	25.4	19.7	8.7
		15	53	32.4	-38	25.5	25.3	9.5
			1	<u>39.4</u>		<u>4.4</u>		
		15	55	12. ✓	-38°	29.9 ✓		

✓ 128	40°7206	15	58	2.5	-40	06.5	21.2	2.7
	39°6871	15	54	<u>22.7</u>	-39	<u>59.9</u>	<u>21.3</u>	<u>8.5</u>
			3	39.8		6.6	42.5	6.2
		15	56	12.7	-40	03.6	109.8	2.9
		15	56	12.7	-40	03.6	110	3.7
			1	<u>41.3</u>		<u>4.3</u>		
		15	57	54.0 ✓	-40°	07.9 ✓		

✓ 52	39°6871	15	54	22.7	-39	59.9	18.6	9.3
	39°6878	15	57	<u>21.2</u>	-39	<u>29.8</u>	<u>15.3</u>	<u>21.7</u>
			2	58.5		30.1	33.9	31
		15	56	00.7	-39	50.9	98	9
		15	56	00.7	-39	50.9	80.5	21.1
			1	<u>40.3</u>		<u>4.4</u>		
		15	57	41.0 ✓	-39°	55.3 ✓		

42

39°6870 15 54 7.2

39°6875 15 56 21.6
2 14.415 54 ~~19~~ 21.415 54 ~~18.6~~ 21.61 40.3
15 56 02. ✓

-39 16.9

-39 57.2
11.7-39 ~~10.2~~ 09.9-39 ~~10.2~~ 09.9-4.4
-39° 14.3 ✓

2.8

23.8
26.5

14.8

120

6.9

~~4.6~~ 11.5~~6.7~~5.0
4.7

113

38°6367 15 58 11.0

38°6375 16 0 19.3
2 08.3

15 58 39.0

15 58 39.0

1 40
16 00 19 ✓

-38 55.1

-38 31.3
23.8

-38 42.0

-38 41.9

4.2
-38° 46.2 ✓

5.4

19.4
24.8

28

100.3

13.3

10.8
24.1

13.1

10.6

15W

38°6370 15 59 17.0

38°6375 16 0 19.3
1 02.3

16 0 02.5

16 0 02.3

1 40
16 1 42. ✓

-38 45.5

-38 31.3
14.2

-38 44.4

-38 44.4

4.2
-38 48.6 ✓

8.8

3.3
12.1

45.5

17

1.2

13.2
14.4

1.1

13.1

✓	14W	38°6367	15	58	11.0	-38	55.1	✓	19.4	7
		38°6375	16	0	19.3	-38	31.3		5.4	17
			2		08.3		23.8		24.8	24
			15	59	51.3	-38	48.2		100.3	6.9
			15	59	51.3	-38	48.2		28	16.9
				1	40		4.2			
			16	01	31. ✓	-38°	52.4 ✓			

✓	84	38°6381	16	2	51.5	-38	56.4	✓	26	11.3
		38°6375	16	0	19.3	-38	31.3		4.3	13.8
			2		32.2		25.1		30.3	25.1
			16	0	40.6	-38	45.1		130.9	11.3
			16	0	40.8	-38	45.1		21.5	13.8
				1	40		4.2			
			16	2	21. ✓	-38°	49.3 ✓			

✓	85	38°6378	16	0	49.3	-38	3.1	✓	6.5	11.1
		38°6369	15	58	40.1	-38	26.8		18.6	13.1
			2		09.2		23.7		25.3	24.2
			16	0	16.1	-38	14.0		33.2	10.9
			16	0	16.1	-38	14.0		96	12.8
				1	40		4.2			
			16	1	56. ✓	-38°	18.2 ✓			

✓
53

39°6896

38°6367

16 0 52.6

15 58 11.0

2 41.6

16 0 30.0

16 0 30.0

1 40.7

16 2 11. ✓

-39 18.6

-38 55.1

23.5

-39 17.6

-39 17.6

4.2

-39° 21.8 ✓

✓
4.5

27.5

32

22.6

139

1.1

22.6

23.7

1.0

22.5

✓
10 W

40°7167

40°7177

15 52 15.0

15 53 16.5

1 01.5

15 52 35.6

15 52 35.6

1 47.1

15 54 17. ✓

-40 39.9

-40 10.8

29.1

-40 19.6

-40 19.6

4.4

-40° 24.0 ✓

✓
3.5

7.5

11

19.6

41.9

20.8

22.7

7.9

29.8

20.3

22.2

6.9

8.8

✓
130

-40°7247

39°6909

16 6 38.1

16 5 23.7

1 14.4

16 6 18.2

16 6 18.2

1 41.9

16 8 00. ✓

-40 15.3

-39 58.4

16.9

-40 14.5

-40 14.5

4.0

-40° 18.5 ✓

✓
3.8

10.4

14.2

19.9

54.5

.9

16.6

17.5

.8

16.1

✓
51 40° 7242
40° 7247

16 3 44.3
16 6 38.1
2 53.8

16 4 36.2
16 4 36.2
1 41.8
16 6 18.0 ✓

-40 49.4 9.9 9.5
-40 15.3 23.1 24.6
34.1 3.3 34.1
-40 39.9 51.9 9.5
-40 39.9 121.9 24.6
4.0
-40° 43.9 ✓

✓
144 40° 7242
40° 7247

16 3 44.3
16 6 38.1
2 53.8

16 5 57.0
16 5 57.0
1 41.9
16 7 39. ✓

-40 49.4 25.2 20.2
-40 15.3 7.8 12.9
34.1 33 33.1
-40 28.2 132.7 21.2
-40 28.2 41.1 12.9
4.0
-40° 32.2 ✓

✓
18W 40 7159
39 6862

15 50 22.0
15 52 21.7
1 59.7

15 50 57.2
15 50 57.3
1 41.0
15 52 38 ✓

-40 4.9 6.6 5.7
-39 42.2 15.8 18.6
22.4 23.6
-40 50.1 4.8
-39 59.5 35.2 5.4
-39 59.5 84.4 17.2
-40 50.1 17.9
4.5
-40° 04.6 ✓

72

✓ 27w	39° 68' 78	15 57 21.2	- 39 29.8	8.2	5.6
	39° 68' 76	15 56 35.2	- 39 20.6	1.1	3.6
		<u>46.0</u>	<u>9.2</u>	<u>9.3</u>	<u>9.2</u>

15 56 40.6	- 39 24.2	40.6	5.6
15 56 40.6	- 39 24.2	5.4	3.6
1 40.3	4.4		
<u>15 58 21</u>	<u>- 39° 28.6</u>		

Star A 7438
7w

40° 71' 11	15 42 42.8	- 40 12.1	10.3	1.9
40° 71' 18	15 43 50.8	- 40 35.3	3.1	21.5
	<u>1 08.0</u>	<u>23.2</u>	<u>13.4</u>	<u>23.4</u>

15 43 35.0	- 40 13.9	52.2	1.8
15 43 35.0	- 40 13.9	15.8	21.4

CO Lup

1 40.4	4.7
<u>15 45 15.4</u>	<u>- 40° 18.6</u>

A 2663

73

56 36° 69 00

15 49 11.0

-36 49.2

15.9

16.1

36° 68 94

15 46 54.1

-36 24.4

11.9

8.9

2 16.9

24.8

27.8

25

15 47 53.0

-36 33.2

78

16

15 47 52.6

-36 33.2

58.5

8.8

1 37.2

4.6

15 49 30.

-36° 37.8

134 37° 65 96

15 46 42.5

-37 8.6

24.9

8.3

36° 69 00

15 49 11.0

-36 49.2

4.9

11.3

2 28.5

19.4

29.8

19.6

15 48 46.5

-37 00.4

124

11.2

15 48 46.5

-37 00.4

24.5

1 38.2

4.6

15 50 25.

-37° 5.0

A 7438

15	43	53.9	-42	03.1	14.8	9.6
15	43	52.8	-42	03.1	64.4	9.8
	1	42.		4.7		
<u>15</u>	<u>45</u>	<u>35.</u>	<u>-42°</u>	<u>07.8</u>		

64	41° 73.37	15	38	44.0	- 41	48.6	9.8	20.4
	41° 73.47	15	40	47.0	- 41	24.2	12.6	4.6
				2 03.0		24.4	22.4	25
		15	39	37.9	- 41	28.7	53.9	19.9
		15	39	37.9	- 41	28.7	69.1	4.5
			1	41.0		4.9		
		15	41	19.	- 41°	33.6		

4	41° 7347	15 40	47.0 7.2	-41 24.2	✓ 9.2	11.5
	40° 7113	15 42	51.6	-40 58.1	13.6	14.3
			2 04.6	26.1	22.8	25.8
		15 41	37.4	-41 12.5	50.4	11.7
		15 41	37.4	-41 12.5	64	14.4
		1	41.1	4.8	74.2	
		15 43	18.	-41° 17.3		

44	42° 7221	15	44	18.7	-42	53.2	4.4	1.1
	42° 7227	15	44	48.1	-42	54.9	1.2	3.5
				29.4		4.7	5.6	4.6
		15	44	41.8	-42	54.3	23.1	1.1
		15	44	41.8	-42	54.4	6.3	3.5
		1	42.2			4.7		
		15	46	24.	-42°	59.0		

23W	43° 7387	15	48	11.6	-43	33.4	5.8	12.6
	43° 7377	15	47	8.6	-43	9.5	4.2	11.5
				53.0		23.9	10	24.1
		15	47	30.8	-43	20.9	30.8	12.5
		15	47	30.8	-43	20.9	22.2	11.4
		1	43.			4.6		
		15	49	14	-43°	25.5		

2.	43° 7377	15	47	8.6	-43	9.5	15.2	13.4
	42° 7252	15	49	0.4	-42	43.2	5.	13.1
			1	51.8		26.3	20.2	26.5
		15	48	32.6	-42	56.2	84	13.3
		15	48	32.7	-42	56.2	27.7	13.0
		1	42.4			4.6		
		15	50	15.0	-43°	50.8		

41	41°7401	15	49	43.1	-41	53.7	✓ 11.6	18.2
	41°7405	15	50	59.7	-41	22.9	2.8	12.6
			1	16.6		30.8	14.4	30.8
		15	50	45.0	-41	35.5	61.9	18.2
		15	50	45.0	-41	35.5	14.7	12.6
			1	41.8		4.3		
		15	52	27.	-41°	39.8		

A8995

77

105	40° 7339	16 21	36.6	-40	22.7	7.4	3
	40° 7333	16 20	29.6	-40	13.9	9.3	6.1
		1	2.7 0		8.8	16.7	9.1
		16 21	18.1	-40	19.9	38.5	2.8
		16 21	18.1	-40	19.8	48.5	5.9
		1	42.8		3.4		
		16 23	01	-40°	23.2		

Plate No.	ID.	52	144	14	41	51
MF 8517	23908.772			16.2 lv	13.9	
8655	23962.616			15.6 lv	13.6	
8768	24023.500	12.1	14.3	15.9 lv	14.3 ?	14.4 ?
8783	24026.499	12.1	13.1	15.5 lv	14.0	14.0
9458	24326.649	12.1	13.6	16.0 lv	14.2	14.0
10439	24699.656	12.0	13.4	15.6 lv		
10455	24702.652					
10471	24704.649					
10487	24706.654					
10531	24712.563					
10583	24730.528					
10605	24782.527					
10667	24754.495					
10675	24756.493					
10758	24765.504			15.7	14.3	

100

128

14.3?

16.2 hr

14.0

no lim = 15.9

13.9

16.0 hr

86

Jan 1948

31293.239

MF32871

B226

10.3 ✓

2880615

9014

503

con
+145

648

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72

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260

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10.3

509

654

272

4

3

512

657

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3

515

660

293

6

3

518

663

303

7

3

521

666

315

8

3

524

669

325

9

3

527

672

336

80

10.25

530

675

346

1

3

533

678

357

2

2

537

682

370

3

3

540

685

381

4

2

543

688

390

5

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6

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7

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698

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7 2 ✓

556

701

434

9

8

559

704

444

90

9

562

707

467

1

11.0

565

710

470

2

2 11.5 ✓

569

714

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3

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572

717

490

4

2

575

720

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5

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6

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582

727

524

7

10.5

585

730

536

8

10.3

588

733

546

9

3

591

736

557

900

3

594

739

B226

2820655

 ± 145

31293.569 MF 32901 10.3

580 2 3

590 3 3

602 4 2

31300.203 970 25

213 71 3

227 2 3

239 3 25

31313.370 33017 10.2

403 18 3

414 19 2

424 20 25

434 1 2

444 2 25

454 3 2

467 4 3

477 5 3

488 6 3

499 7 3

509 8 3

520 9 3

530 30 35

540 1 35

314.392 3 3

401 4 3

320.344 33084 10.2

348 5 3

358 6 3

369 7 25

380 8 25

594 743

601 746

604 749

607 752

9016, 509 654

512 657

516 661

9020 519 664

302 157

311 166

314 169

317 172

320 175

323 178

326 181

330 185

333 188

336 191

339 194

342 197

345 200

348 203

351 206

9020 596 741

9022 599 744

311 166

313 168

315 170

318 173

321 176

88

		6226	2880655	con. -145
31320.390	MF33089	16.25	324	179
402	90	25	328	183
412	1	25	331	186
424	2	3	334	189
434	3	3	337	192
445	4	2	340	195
327.305	33154	10.2	9024	316
316	5	2	320	175
327	6	3	323	178
338	7	3	326	181
349	8	2	329	184
360	9	25	332	187
370	10	2	335	190
381	1	2	338	193
391	2	3	341	196
402	3	2	344	199
412	4	3	347	202
423	5	35	350	205
433	6	3	353	208
444	7	5	356	211
454	8	5	359	214
464	9	55	362	217
475	70	5	365	220
485	1	5	368	223
496	2	45	371	226
506	3	4	374	229
31341.260	33241	3	9025	336
.273	2	3	340	195
284	3	2	343	198
294	4	3	346	201

B226

2820155

3/341.304	33245	1045	348	203
315	6	10.5	352	207
325	7	5	355	210
336	8	5	358	213
347	9	45	361	216
357	50	5	364	219
368	51	45	367	222
378	2	5	370	225
388	3	4	373	228
399	4	3	376	231
409	5	25	379	234
420	56	25	382	237
430	57	25	385	240
442	58	3	389	244
454	59	2	392	247

Sept. 1935

Seq copied
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+ 64

Sept. 1935

Seq copied
from Bl 6, 22 + 50
+ 64

258	325	391	GG Sec	118	286	231	228	441	227	227	384
—	11.4	—	—	—	—	—	—	—	—	—	—
—	11.5	—	—	—	—	—	415.5	1510	415.5	1510	med
—	11.4	—	<14.5	<14	<14.5	14.5	—	—	—	—	—
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—	11.5	—	RJ	—	—	<15	—	—	—	—	—
seen?	11.4	<14.5	<14.5	<14	<14	<14	<15	1510	<15.5	<15	14.2
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—	11.5	—	13.6	—	—	—	—	—	—	—	—
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1518	11.4	1518	<16.5	<16.5	<16.5	<16	<16	<15	<15.5	<15	<15
—	11.6	—	13.8	—	—	—	—	—	—	—	—
—	11.75	—	—	—	—	—	—	—	—	—	—
—	11.8	—	—	—	—	—	<15	<15	<15	<15	<15
<15	11.8	—	<14	<14	<14	<14	—	—	—	—	—
—	11.9	—	—	—	—	—	—	—	—	—	—
—	11.3	—	—	—	—	—	—	—	—	—	—
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<16.5	11.2	<16.5	15.0	<16.5	<16.5	<16	<16.5	16.0	16.5	15.5	<16.5
<16	11.4	<16	13.5	<15	<15	13	<16	16.0	<16	14.5	<16
16.0	11.3	<16	<16	15.5	<16	<16	—	—	<15	—	—

100

Sept 1935

Sey copied
from Bl 6, 22 + 50
+ 64

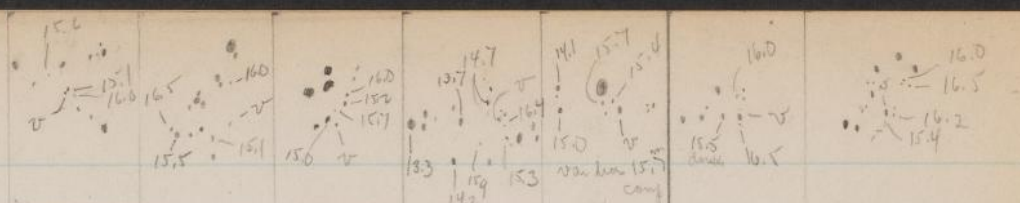
70.2		360	361	520	B 116	385	B 53	198
-	16228	B 31523	<15.5	-	-	-	-	-
150	290	32051	-	-	?	BA	-	-
150	347	32491	14.5	16.0	15.0	<16	16.0	<16
14.8	396	32650	<15	<15	<15	<15	<15	-
150	625	33836	-	-	-	-	-	-
-	17080	36792	-	-	-	-	-	-
-	✓ 094	36862	<15	<14	<15	<14	<15	-
-	698	37313	-	-	-	-	-	-
-	813	38031	<16	?	<16	<15	<16	-
-	18098	39090	-	-	-	-	-	-
-	438	40258	-	-	-	-	-	-
-	18456	40358	-	-	-	-	-	-
-	19903	43692	-	-	-	-	-	-
-	912	43712	-	-	-	-	-	-
-	20288	44538	14.0	<15	<15	14.7	15.5	<15
-	315	44711	BA	-	<15	Sum	-	-
-	316	44720	-	-	-	-	-	-
-	335	44833	-	-	-	-	-	-
-	336	44840	15.5	15.5	<16.5	<16.5	<16	<16
-	338	44861	<15.5	<15.5	<15.5	<15.5	<15.5	-
-	339	44876	16.0	16.0	<16.5	<16.5	<16.5	<16
-	362	45001	<16.5	<16.5	15.3	<11	<11	<11
-	369	45022	-	-	-	-	-	-
-	21012	46947	-	-	-	-	-	-
-	21013	46947	-	-	-	-	-	-
-	015	47076	-	-	-	-	-	-
-	025	47262	-	-	-	-	-	-
-	026	47320	-	-	-	-	-	-
-	026	47323	-	-	-	-	-	-

258	325	391	G@	118	286	231	228	441	70	227	384
—	11.5	<15	<15	<15	<15	—	—	—	<15	<15	15.0
—	11.5	15.0	—	—	—	—	<16	<16	<16	15.3	<16
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<15	11.5	<15	<15	<15	<15	<14	15.0	<15	<15	<15	<15
<15	11.5	<15	<15	<15	<15	<15	<15	15.0	15.0	<15	<15
—	11.45	—	—	—	—	—	—	—	—	—	—
Br abject but not in	11.5	<15	14.0	<15	14.5	LH	<15	14.5	<15.8	<15	<15
—	11.4	<14	—	—	—	—	<15	14.5	<16	15.2	<16
<15.5	11.4	15.8	<16	<16	<16	<16	<16	14.5	<15	<16	<16
<15	11.4	12	13.8	—	—	—	14.5	—	<15	<15	<15
—	11.4	—	—	—	—	—	14.4	<14	<14	<14	15.5
<15	11.5	—	<14	<14	<14	<14.5	—	—	<14	—	—
—	11.4	—	<14.5	<14	<14	<14	—	—	—	—	—
—	11.4	—	14.0	—	—	—	—	—	—	—	—
<15	13.1	—	12.8	<15	<15	<14	<15	14.8	<15	14.8	<15
<15	13.1-2	14.9	13.6	<15	<15	<15	—	—	—	—	—
<15	13.2	—	13.1	—	—	—	<15	<15	<15	15.6	<15.5
BP?	13.1	—	13.1	—	—	—	<15	<15	<15	—	—
<16	13.0	—	<14	<14	<14	<13	—	—	—	—	—
<15.5	13.3	<16	15.8	14.5	15.5	<16	<16	—	14.1	—	<15
<16.5	13.2	—	15.5	14.2	?	<15.5	<15	<15	<15	—	—
<11	13.2-3	<16.5	15.0	14.3	15.5	<16.5	<16	—	med	7 med	—
—	13.4	<11	Scratch	14.2	16.0	<11	<11	—	11	11	—
—	13.7	—	<14	<14	<14	<14.5	—	—	—	—	—
—	11.5	—	—	—	—	—	—	—	—	—	—
—	11.5	—	—	—	—	—	—	—	—	—	—
—	11.3	—	—	—	—	—	—	—	—	—	—
—	11.5	—	<14	—	—	—	—	—	—	—	—
—	11.3	—	—	—	—	—	—	—	—	—	—
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100

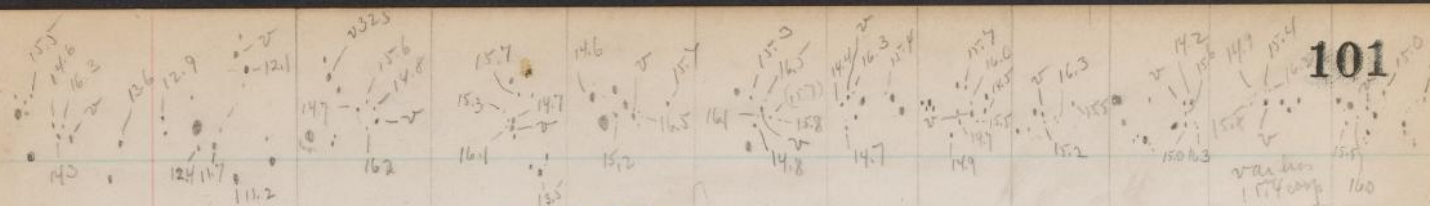
Sept. 1935

Seq copied
from Bl 6, 22 + 50
+ 64



		360	361	520	116	385	53	198
21039	B 47635	—	—	—	—	—	—	—
064	47985	—	—	—	—	—	—	—
331	49967	—	—	—	—	—	—	—
333	50005	—	—	—	—	—	—	—
336	50122	—	—	—	—	—	—	—
391	50964	—	—	—	—	—	—	—
426	51468	—	—	—	—	—	—	—

add A 13



100

Sept 1935

Sey copied
from Ab 6, 22 + 50
+ 64

		360	361	520	B 116	385	B 53	B 198
17392	A 7779	<15	<15	<15	<15	<15.5	<15	?
Back 393	7781	<15	<15	<15	<15	<15	<15	<15
804	8432	—	—	—	—	—	—	—
18157	8996	<16.5	15.5	15.2	13.8	15.6	16.0	16.0
18183	9057	<16.5	16.5	15.8	13.6	15.4	16.0	15.5
184	9661	<15	<15	<15	14.7	15.2	<15	—
20689	11285	<16.5	<16.5	<16.5	—	—	—	—
23267	12108	—	—	—	44.5	—	—	—
Continued								
26460	MF 15394	15.3	<16.5	<16.5	<16.5	<16.5	<16.5	<16.5
473	439	15.3	<16.5	<16.5	<16.5	15.8	<16.5	<16.5
481	494	15.5	<11	<16.5	<11	16.0	<11	<11
489	540	16.0	<11	<11	<11	16.0	<11	<11
504	589	16.5	<11	<11	<11	16.0	<11	<11
546	A 15509							
562	MF 15791	<16.5	<16.5	<16.5	<16.5	15.3	<15.8	<16.5
587	A 1570							
606	A 15774							
mal 838	MF 16767	15.5	<16	15.5	<16	<16	<16	blurr
Bt 871	931	<16.5	<16.5	16.0	14.0	16.0	<16	<16
15.0 897	17055	<11	<11	<16.5	15.0	15.3	<16.5	—
14.8 917	158	<11	<11	<11	15.5	15.5	<11	<16.5
27140	812	<15	<15	<15	15.2	15.5	13.5	<15
Ft 293	18421	<15.5	<15	<15.5	<15.5	15.3	<15.5	<15
299	544	<15	<15	<15	45	<15	<15	<15
306	670	<15	45	<15	<15	<15.5	<15	<15
355	786	<15	<15.3	<15	14.8	<15.5	<15.5	<15
590	787	<15	<15.3	<15	14.8	<15.5	<15.5	<15
	19247	<16	<15	<16	15.2	15.3	<15.5	<15
601	389	<16.5	16.0	16.0	16.8	15.3	<16.5	<16.5
610	455	<16.5	16.2	15.5	16.0	15.0	<16	<16.5
618	B 58801	<11	<16.5	15.2	<16.5	15.0	<16.5	<16.5

258	325	391	GGSc	B118	286	B231	B228	441	B70	B227	384
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15.0	—	—	14.2	14.7	15.1	15	—	—	—	—	—
14.5	11.45	14.5	—	—	—	—	15.5	14.8	15.6	15.5	15.5
16.5	11.4	16.5	16.5	14.6	16.5	16.5	16.5	16.5	16.5	14.3	16.0
16.0	13.5	—	15.8	15.5	16.5	16.5	16.5	—	—	—	—
16	11.3	16.5	15	—	—	—	16.5	16.5	16.5	14.5	16.5
—	—	—	16.0	—	—	—	—	—	—	—	—
15	—	—	14	14.5	15	14.5	—	—	—	—	—
16.5	11.5	16.5	13.0	14.3	16.5	16.5	16.5	15.2	16.5	14.5	15.0
16.5	11.45	15.5	13.3	14.8	16.5	16.5	16.5	15.5	11	14.5	15.0
11	11.4	15.5	13.2	14.9	16.5	11	11	16	16.5	14.6	14.6
11	11.4	15.3	14.4	15.3	11	11	11	16.5	11	14.9	16.0
11	11.3	15.6	14.6	15.5	11	11	11	16	11	15.0	16
16.0	11.4	16.5	15.5	16.5	16.5	16.5	16.5	15.0	16.5	15.5	16.0
14.6	11.4	16	16.0	16.5	16.5	16.5	15.0	16	16	14.6	16.5
15.0	11.4	16.5	15.0	16.5	11	11	15.0	15.0	16.5	14.5	15.3
16.5	11.3	16.0	13.3	11	11	11	16.5	14.7	15.2	14.5	14.5
16.5	11.4	15.5	13.4	11	11	11	11	16.5	14.3	15.0	14.5
15.5	11.4	15.5	14.2	15	15	28.5	15.5	15.5	15	15.5	16.0
14.0	11.4	15.5	15.5	15	15	15.5	15	15.2	15.5	14.4	16.0
14.0	11.3	15	15	15	15	15	15.5	14.8	15.5	14.6	15
14.7	11.4	15	15.5	15	15	15	15	14.5	15	14.8	15.5
15.5	11.45	14.7	13.5	15.5	15.5	15.5	16	15.0	16	15.1	15.5
15.5	11.4	16.0	14.2	15.5	15.5	15.0	15.5	15.3	15.5	15.5	16.0
16.5	11.5	16.5	14.2	16.5	16.5	15.0	16.5	14.5	16.5	15.8	15.8
11	11.2	11	14.6	11	11	14.9	11	14.0	11	15.5	15.0
11	11.4	16.5	14.6	11	11	14.9	11	14.0	11	15.3	14.5

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		B 46	B 47	AFCrA	285	283	309	B 65	284
11202	B	3842	<15.3	<15	<15.5	<15.5	<15.1	14.0	<15.5
204		3861	<15	<15	15.0	<15	<15	14.4	<15
221		3959	<13	<13	<13.5	Bt?	<13	—	—
221		3960	—	—	<14	?	<13	—	—
497		5151	—	—	—	—	—	—	—
529		5397	15.0	<15	<15	<14.5	—	<14	<14
531		5407	14.5	<15	<14.5	<14	<14	?	—
641		5835	—	—	—	—	—	—	—
872		5967	<15	<15	13.5	14.5	—	<14	—
12585		9281	<15	14.5	<14	<14	<14	13.5	—
592		9406	—	—	—	—	—	—	—
603		9482	15.0	14.1	<16	<16	<16	13.6	14.5?
623		9556	—	14.8	<16.5	<16	—	—	?
13030		19634	<14.5	<14.5	<14.5	<15	<15	14.5	<15.5
057		11940	—	—	—	—	—	—	—
327		13346	14.0	—	Sum?	—	—	—	—
357		13749	<15	<15	Sum?	<14.5	<14.5	13.7	<14.5
384		14039	<16	15.2	16.0	<16	<16	13.6	<16
442		14486	<16	<16	<16	<16	?	14.9	<15.5
710		16037	<15.5	14.7	11.5	14.2	<15	15.2	14.0
730		16448	—	—	—	—	—	—	—
738		16496	—	—	12.0	—	—	—	—
740		16518	<15	<15	12.3	Bt	<15	13.0	<14.5
846		17652	15.5	<16	<16	<16	<16	10.5	<16
14017		18724	—	—	—	—	—	—	—
057		19082	—	—	<13.5	—	—	—	—
058		19113	14.5	15.0	16.0	<16.5	<16.5	15.5	14.5
182		20322	—	<14	12.0	—	—	—	—

AGCA	AECa	B66	B67	B68	B69	429	461	277	B51	390
L15.3	L15.5	L15.5	13.2	15.0	14.4	L15.5	15.5	L15.5	L15.5	11.0
L15	L15	L15	13.0	L15	14.2	L15	L15	L15	L15	11.3
L14	L14.6	L14	13.0	—	12.8	sm?	—	L13	—	11.5
L14	L14	L14	13.6?	—	13.0 ^{BT}	—	—	L14	—	11.5
—	—	—	—	—	L12.5	—	—	—	—	L13
L14	L14.5	L14.5	L14.5	—	L14.5	L14	L15	L15	14.8	L15
L14	L14	L14	L14.2?	?	L14	L14	L14.5	L15	14.5	15.2
—	—	—	—	—	—	—	—	L14	—	11.8
L14	BT	L14	13.7	—	L14	L15	15.0	13.5	L15	L14.5
L15	L14.5	L15	13.5	—	L14.5	L15	L15	L14.5	L14	L14.5
—	—	—	—	—	L14	—	—	L13	—	L14
L15	?	L16	13.0	?	L15	L15	L16	13.7	L16	L15
L15.5	14.8	L16	13.0	L16	14.8	L15	L16	14.0	L16	15.0
L15	L15	L15	L15	L15	14.0	L15	L15	L15	14.0	L15
—	—	—	—	—	L13.5	—	—	—	—	L14
—	—	—	—	—	—	—	—	14.5	14.0	L13.5
13.5	BT	L14.5	13.7	—	13.7	L14	L14	L14.5	14.0	L14.5
14.5	15.0	L16	12.7	14.0	13.7	L16	L16	L16	L16	L16
15.3	L16	14.6	L15.5	15.0	L15.5	L15.5	L15.5	L15.5	L15.5	L15
15.8	16.0	14.0 ^{frequency}	L15.5	L15	13.0	L15.5	L15.5	L11	14.8	L15.5
—	—	—	—	—	—	—	—	BT	—	L14
L15	L15	L15	L15	—	14.4	L15	L15	L15	L14.5	L15
L16	15.2	L16	L16	L15	13.2	L16	L16	14.0	14.0	L15
—	—	—	—	—	—	—	—	—	—	L13
—	—	—	—	—	—	L13.5	—	L14	—	L14
L16	15.0	L16	L16.5	14.5	14.9	15.0	L16	13.7	L16	15.5
—	—	—	—	—	—	—	—	—	—	L13

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Seq. copied
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		B46	B47	AFGA	285	283	309	B65	284
14188	B 20465	—	—	11.9	—	—	—	—	—
190	20490	<15.5	<15	14.9	<15	15.0	—	14.0	—
375	21078	<14	<14	<14	<14	—	—	14.5	—
536	21919	<16	<16	<16	13.5	<16	<16	15.0	<15.5
570	21991	—	—	—	—	—	—	—	—
751	22510	<16	15.0	13.0	14.0	15.3	—	<14.5	—
822	23058	—	—	—	—	—	—	—	—
822	23059	<15	14.8	<15	<15	<15	—	14.8	—
853	23496	15.0	<15	<15	—	<15	—	14.5	<15
863	23684	—	<14	<15.5	—	—	—	—	—
872	23776	15.5	15.0	<16	<16	<16.5	<16.5	15.0	16.0
875	23786	15.5	15.0	<16	<16.5	<16.5	<16.5	15.5	<16
941	24375	<15	<14.5	<15	14.5	<15	<15	14.4	?
15110	24921	15.0	<15	<15	<15	<15	<15	15.2	<15
163	25424	<14.5	<14	14.8	13.8	<14	<14	13.1	<14
171	25506	—	—	11.8	—	—	—	—	—
172	25516	—	—	—	—	—	—	—	—
266	25918	—	—	—	—	—	—	—	—
278	26141	<15	<15	15.0	<15	14.9	<15	13.2	<15
661	28622	—	—	12.0	—	—	—	—	—
870	29570	16.0	<16	<16.5	<16	<16	<16	13.3	?
872	29605	15.2	16.0	<16.5	<16.5	<16.5	<16.5	13.1	<16.5
897	29853	<16	<16	<16	<16	<16	<15.5	14.5	<15
966	30511	—	—	—	—	—	—	—	—
16016	30644	—	—	<13.5	<14	—	—	—	—
228	31523	—	<15	14.5	<15	—	—	13.8	—
290	32051	<16.5	14.6	<16.5	<16.5	<16.5	<16.5	14.9	15.5
347	32491	14.5	15.2	<16.5	<16	14.8	<16.5	13.4	<16.5

AGCA	AECA	B 66	B 67	B 68	B 69	429	461	277	B 51	390
—	—	—	—	—	—	—	—	—	—	<12.5
<14	—	Bt?	—	—	14.0?	—	—	—	—	<13.5
<14	—	—	—	—	<14	—	—	<14	—	10.0
<16	<16	<16	14.0	15.0?	15.0	<16	<16	<15.5	14.5	<15.5
—	—	—	—	—	—	—	—	—	—	<13
<15	<16	<16	<15.5	—	<15	15.8?	<15.5	<16	<15	11.5
—	—	—	—	—	—	—	—	—	—	13.5?
<14.5	14.5	—	—	—	<14.5	—	—	<14	—	13.4?
<15	15.2	<15	<15	<15	<15	45	15.0?	<14.5	14.0	15.0
—	<15?	<15	<15	?	<15	<15	—	<14.5	14.0	15.0
<16	16.0	<16	14.0	46 ^{Bt?}	16.7	16.0	16.0	<16	14.8	15.3
16.0	16.0?	16.0	14.4	15.5	15.5	15.5	15.5	<16	14.5	15.0
<15	<14.5	<14.5	<14.5	<14	<14.5	<14.5	<14	<14	<14	<14
14.8	Bt	<15	<14	13.8	<14.5	<14	<14	<14	<14.5	11.4
<14	<14	14.5	Bt?	<14	14.5	15.0	<14	<14	14.0	10.5
—	—	—	—	—	—	—	—	—	Bt	—
—	—	—	<14	<14	<14	—	—	<14	13.8	11.2
—	—	—	—	—	—	—	—	—	—	<13
<15	<15	<15	14.5	<15	14.1	<14.5	<14.5	14.0?	—	<15
—	—	—	—	—	—	—	—	—	—	—
<16	<16	14.0	<16	<16	15.8	<16	<16	<16	14.0	15.2
<16.5	<16.5	13.7	<16.5	<16.5	15.1	<16.5	<16.5	<16.5	14.0	14.9
<16	<16	15.0	14.5	<16	14.2	<16	<16	<16	<16	13.6
—	—	—	—	Bt?	<15	—	—	<15	<16	10.2
—	—	—	—	—	—	—	—	—	—	12.5
13.5	<15	<15	<15	—	—	<14	<14.5	—	<15	<14.5
14.4	16.0	4.5	13.0	15.2	14.6	15.0	<16.5	16.0?	<16.5	14.8
<16.5	15.5	13.8	15.8	<16.5	15.4	<16.5	<11	<16.5	13.8	12.9

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		B 46	B 47	A F	285	283	309	B 65	284
16396	B 32650	<16	<16	<16	14.0	<16	<16	15.0	<16
604	33586	—	—	12.0	13.8	<14.5	<14	13.7	—
625	33836	15.0	<15	12.2	15.0	15.0	—	14.9	13.5
17080	36792	—	Br	12.0	—	—	—	<13	—
2) 094	36868	<14.5	<15	11.7	<14.5	<15	Br	<15	—
698	37313	<15	<15	15.5	<15.5	15.0	<15	14.4	15.3
2) 727	37538	<14	<14.0	<14.5	<14	—	—	—	—
813	38031	<16	16.0	<16	<16	<16	<16	15.0	<16
18091	39058	—	—	12.3	<14	—	—	<14	—
18098	39090	14.0	<15	12.8	<15	<14	—	14.0	—
438	40258	<15	<15	<15	Br	<15	<15	15.5	<14
456	40358	—	—	—	—	—	—	—	—
19903	43692	—	—	<14	—	—	—	<13	—
912	43712	—	—	13.7	13.6	—	—	<14	<—
20285	44538	<15	<15	<15	15.2	<15	<15	13.7	<15
316	44720	<15.5	<15.5	15.5	15.0	<15.5	<15.5	14.7	<15.5
335	44833	—	—	—	—	—	—	—	—
336	44840	<15.5	<15.5	<16	13.8	<15.5	<15.5	13.8	<15.5
338	44861	—	—	<15	13.8	—	—	—	—
339	44876	15.2	<15.5	16.0	13.5	Br	—	14.0	—
356	44932	14.0	<15	<15	14.2	—	—	14.8	—
362	45001	13.0	14.8	15.2	14.6	<15	<15	14.7	—
21012	46947	—	—	<13	—	—	—	—	—
013	46997	—	—	<14	—	—	—	—	—
026	47320	—	—	<13.5	—	—	—	—	—
026	47323	—	—	—	—	—	—	—	—
039	47635	—	—	—	—	—	—	—	—
064	47985	—	—	<14	—	—	—	—	—

AG	AE	B 66	B 67	B 68	B 69	429	461	277	B 51	396
C 16	C 6	C 16	C 16	C 16	14.7	C 15	C 15	C 15	C 16	14.5
C 14	C 14	44.	—	—	13.5	—	—	—	—	C 13.5
C 15	C 15	C 15	C 15	C 15	14.0	C 15	C 15	C 15	C 14	C 15
C 14	C 14	C 14	C 14	?	C 14	—	—	def 14.6	—	C 13.5
C 14.5	14.5	15.0	13.5	14.0	13.8	C 15	C 15	C 15	C 15	C 15
C 15	C 15	C 15	14.5	C 15	15.0	C 15	C 15	C 14.5	14.0	C 15
—	—	C 14	—	—	—	C 14	C 14	C 14.5	C 14.5	C 14.5
C 16	14.8	46	14.5	C 16	14.4	C 16	C 16	C 16	15.5	C 16
—	C 14	C 14	C 14	C 14	14.2	C 14.5	C 14.5	C 15	44.5	C 14.5
C 14	14.6	C 14.5	12.9	—	14.1	C 14	C 14	C 14.5	—	C 15
C 15	C 15	C 14.5	C 14.5	—	14.3	15.0	C 14.5	14.0	—	14.0
—	—	—	—	—	C 14	—	—	BA?	—	C 14
—	—	—	13.5	—	14.0	—	—	C 14	—	11.0
C 14	C 14.5	C 14	14.0	—	14.1	—	—	14.1	14.5	11.6
C 15	C 15	C 15	13.2	C 15	14.0	C 15	15.3	C 15	C 15	10.2
C 15.5	14.7	C 15.5	15.0	C 15	14.5	C 15.5	C 15.5	C 15.5	C 15.5	11.0
—	—	—	—	—	—	—	—	—	—	12.3
C 15	14.0	C 16	C 16	?	14.5	C 15	C 16	C 16	15.8	12.3
—	—	—	—	—	C 14.0	—	C 14.5	C 14.5	15.0	12.5
—	14.0	C 15.5	C 15.5	?	14.6	—	13.1?	C 16	15.2	12.7
—	14.0	C 14	C 14.5	—	14.5	—	C 14	14.0	14.5	13.0
—	—	15.5	C 15	—	13.6	15.0	C 15?	C 15	14.0	13.0
—	—	—	—	—	—	—	—	—	—	C 13
C 14	—	BA?	—	—	13.1	—	—	—	—	14.0
—	—	—	—	—	13.6	—	—	—	—	13.4
—	—	—	—	—	—	—	—	—	—	13.4
—	—	—	—	—	—	—	—	—	—	12.9
—	—	—	—	—	C 14	—	—	—	—	11.4

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AR	AE	66	67	68	69	429	461	277	51	390
										L13
L14					13.9					L14
L14					14.0					L13
L14.5	L14.5	L14.5			13.8					L13.5
L15	L15	15.6	13.0	L15	L15	L15	L15	L15	14.0	12.7
L15	L15	L15	13.1		15.0	L15	L15	L15	14.2	12.5
L14.5	L14.5	L14	13.6		L14			L13.5		12.0
13.5	L14	14.0	L14		L14		L14	L14.5	14.0	14.5
13.0	14.3	14.0	L16	L14.5	14.3	BA	L14.5	15.0	14.2	15.0
12.7	14.2	14.1	L16	L16	14.1	15.0	L16	L16	13.4	15.0
L15	14.5	L15			L14.5	L14.5	L15	L14.5	14.0	L15
L14.5	L15	L14.5	13.5		L14		L14.5	L14.5	14.5	L15
					L14					L14.5
L16	16.0	L16	14.6	L15.5	14.5	L14.5	L14.5	L15	L16	15.0
L16.5	L16.5	16.3	13.5	L15.5	14.9	L16.5	L16.5	L14.5	L14.5	L16.5
L16.5	14.7	L16				15.0	L16			
L16.5	L16.5	L16.5	13.0	L16.5	14.5	L16	L16.5	L16		
L16	L16	14.2	14.2	L16	13.3	L16	L16	L16	13.8	L16
15.2	15.9	16.0	L16	L16.5	14.4	14.6	15.3	L14.5	L14.5	13.5
13.9	L16.5	13.9	14.4	16.6	14.5	L14.5	15.8	L14.5	16.2	13.5
							15.0	L14.5	L14	L14.5
								L14.5	L14.5	L14.5
L15.5	14.0	14.8	15.0	BA?	14.0	L15	15.0		L14	L14.5
	15.0	14.5				L15	15.0	L16	L15.5	14.5
										L13

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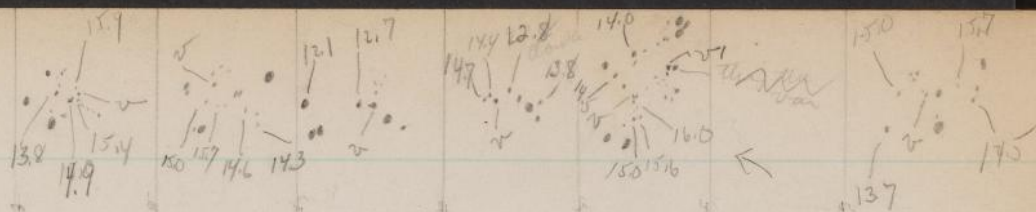
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from Bk 6, 120, 64, 8
made from MF 10522

	A	B 46	47	AF	285	283	309	65	284
18157	A 2996	<16	15.0	13.8	<16.5	<16	<16	14.8	<16
183	A 9057	<15.5	<16	14.6	<16	—	—	—	—
184	981	<16	15.8	14.6	<16.5	<16.5	<16.5	14.6	15.5
466	9338	<15.5	<15	16.0	15	—	—	—	—
26460	MF 15394 3842	<16	15.0	11.7	<16.5	<16.5	<16	14.7	<16.5
473	439	<16.5	15.0	11.7	<16	<16.5	<16.5	14.8	<16.5
481	499	<16.5	15.0	11.5	<16	<16.5	16.0	14.4	46.5
489	540	<16.5	14.8	11.7	15.0	<16.5	<16.5	14.4	46.5
504	589	<16	15.0	12.0	14.7	<16.5	46.5	13.9	15.5
546	A 15539	<16.5	<16	13.2	15.1	<16.5	<16.5	13.5	15.3
562	MF 15791	<16.5	<16.5	13.8	15.3	<16.5	46.5	14.7	16.2
587	A 15710	<16.5	<16.5	14.4	16.5	15.5	<16.5	14.8	<16.5
606	A 15774	<16.5	<16.5	15.0	<16.5	15.1	<16	13.3	<16.5
838	MF 16267	<16	15.0	16.0	<16.5	16.8	?	13.5	<16
871	931	<16.5	15.2	16.0	<16	14.9	<16	14.5	<16
897	17055	15.0	<15.5	14.2	15.0	15.3	<16	14.0	<16.5
917	158	15.0	<15	12.5	14.5	<16.5	<16.5	14.2	<16.5
27140	812	15.8	<15	<16.5	14.0	15.5	—	13.4	<16
293	18421	<16	<16	15.0	<16.5	<16.5	<16.5	15.1	15.5
299	544	<16	<16	14.6	<16	<16	<16	14.8	16.0
306	670	<16	<16	15.5	15.0	<16	<16	13.8	15
	786	—	—	BR	22204	—	—	BR	—
355	787	<16.5	16.0	16.0	13.5	<16.5	<16.5	14.8	<16
590	19247	<16	15.0	16.0	15.0	<16.5	<16	14.9	<16
601	389	<16.5	14.9	16.1	16.5	<16	16.0	15.0	<16.5
610	455	<16.5	14.8	<16.5	<16.5	<16.5	15.5	15.2	<16.5
618	B 58801	<16	14.8	<16	<16	<16	15.8	15.3	<16

AG	AE	66	67	68	69	429	461	277	51	390
C/6.5	C/6.5	C/6.5	C/6.5	C/6.5	14.6	?	C/6.5	C/6	14.5	C/6
—	C/6	C/6	—	—	—	15.0	15.5	15.0	13.5	C/6.5
C/6.5	C/6.5	C/6.5	C/6.5	16.0	13.4	15.0	15.4	14.0	13.5	C/6
—	—	—	—	—	—	Br	C/5	C/9	—	C/3.5
C/6.5	C/6.5	C/6.5	15.2	C/6.5	13.5	C/5	14.8	15.0	15.5	12.8
16.5	C/6.5	C/6.5	16.0	C/6.5	13.0	C/5	14.7	14.5	15.5	11.6
C/6.5	16.0	C/6.5	C/6.5	C/6.5	13.5	C/5	14.4	14.5	C/6	11.2
C/6.5	14.8	C/6.5	C/6.5	C/6.5	13.6	C/6	14.8	15.0	C/6.5	11.0
C/6.5	14.0	C/6.5	C/11	C/11	13.9	C/11	14.5	15.0	C/11	11.0
16.5	14.0	C/6.5	13.0	C/6.5	14.5	C/6.5	15.5	16.5	15.4	13.0
C/6.5	15.5	16.0	13.5	16.0	14.5	C/5	15.2	C/6	14.5	13.5
C/6.5	C/6.5	15.0	13.5	13.9	14.4	C/6.5	16.5	C/6.5	13.3	14.5
C/6.5	C/6.5	14.0	16.0	13.9	13.6	C/6.5	C/6.5	C/6.5	14.0	15.0
C/6	C/6	13.5	14.2	C/6	14.7	C/5	C/6	C/6	C/6	14.0
C/6.5	C/6.5	14.1	C/6.5	14.6	14.5	C/5	C/6.5	C/6.5	C/6.5	12.0
C/6.5	C/6.5	15.5	C/11	14.7	14.6	C/6	C/11	C/11	15.0	12.0
C/6.5	C/6.5	C/6.5	15.8	14.5	14.6	C/6	15.1	C/6.5	14.5	12.3
C/6	C/6.5	C/6.5	C/6.5	C/6	14.0	C/5	C/6	C/6	16.0	C/6.0
C/6.5	16.0	C/6.5	16.0	C/6.5	14.1	15.8	C/6.5	C/6	14.8	10.9
C/6	C/6	C/6	15.5	C/6	13.9	C/6	C/6	C/6	15.5	11.1
C/6	C/6	15.0	13.5	C/6	13.5	C/6	C/6	C/6	15.8	11.5
—	—	<u>Br</u>	<u>Br</u>	—	<u>Br</u>	—	<u>Br</u>	—	—	<u>Br</u>
C/6	C/6.5	14.8	13.7	C/6.5	15.2	C/6.5	15.7	C/6.5	C/6.5	13.3
C/6	C/6.5	14.5	13.2	C/6.5	14.0	C/6	C/6.5	C/6.5	15.0	15.0
C/6.5	C/11	14.5	13.5	C/6.5	14.5	C/6.5	C/6.5	C/11	15.1	15.0
C/6.5	C/11	14.8	14.0	C/11	14.2	C/6	C/6.5	C/11	15.0	14.2
C/11	C/11	15.2	14.0	C/11	14.2	C/11	C/11	C/11	14.2	14.0

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Oct. 1931

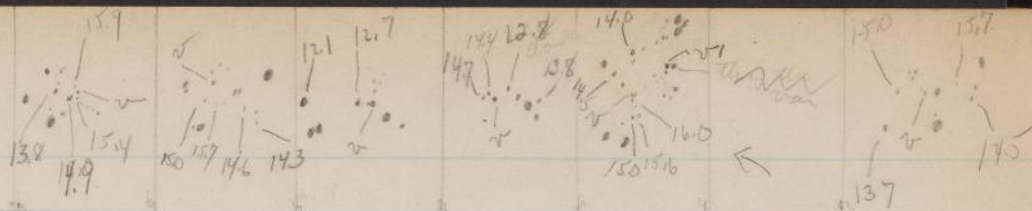


		336	392	B 199	337	B 75	B 1	377
23911	MF 8537	216	15.6	12.2	14.3	15.3	15.5	15.3
965	8873	216	15.2	12.0	14.2	14.5 ^B	15.8	14.4
992	8724	615	<15.5	11.8	14.2	15.0	13.3	14.2
24026	8785	<15	<15	11.9	14.4	<15	13.5	15.3
056	8842	<16.5	<16.5	11.8	12.8	F 15.5 16.5 ^B	15.2	13.8
411	9816	<16.5	14.6	12.0	14.3	14.6 ^B	<15.0	15.0
412	28	<16	14.6	12.0	13.2	F 15.5	med	14.1
413	38	<16.5	14.3	12.8 ^F	14.5	15.5 ^F	med ^F	14.2
24626	10141	—	—	—	—	—	—	—
27	146	—	—	—	—	—	—	—
49	240	15.0	15.3	12.0	13.5	14.5 ^B	14.6 ^B	14.6
50	249	15.0	15.0	11.8	14.3	14.6 ^B	<15	14.0
54	271	15.5	15.2	12.2	14.0	14.3 ^B	<15.5 ^B	13.9
55	279	15.4	15.5	12.0	12.9	15.1 ^F	14.5	14.7
56	284	15.5	15.0	12.1	14.4	15.0	<16.5	15.0
81	365	<16.5	15.0	12.2	14.2	15.0	15.2	14.5
711	522	<16.5	14.8	12.2	13.7	15.1	14.2	15.2
12	534	11	15.0	11.8	14.5	15.0	14.0	14.7
27	572	11	15.0	12.2	12.8	14.8	13.9	15.7
28. 500	574	11	15.2	12.0	14.1	14.0	13.5	15.0
565	76	11	15.0	12.0	14.2	14.5	13.5	15.0
596	77	16.5	15.0	12.0	14.2	14.8	13.5	15.2
630	78	11	15.2	11.9	14.2	14.8	13.5	14.9
662	79	11	15.2	12.0	14.2	15.0	13.6	double 15.0
25355	11533	<16	<16	12.0	13.7	14.5	14.5	13.8
383	662	15.5	<16	12.2	14.0	15.0	<16	—
86	705	<15.5	15.5	12.1	13.5	14.2	<16.5	—
88	718	—	—	12.2	14.0	—	—	—
90	743	—	—	11.9	13.8	15.0	<16.5	—

403	B76	B163	326	B84	311	362	LM Sg	LL Sg	B96	B95
13.1	15.3	12.0	12.2	<16.5	14.9	<16.5	12.2	15.3	15.7	12.8
12.5	^{16.1} 16.1	14.2	12.0	<16.5	15.0	14.0	14.5	<16.5	14.9	12.7
12.3	<16	12.4	12.2	<16.5	15.2	13.0	15.1	<16.5	15.2	12.6
12.8	^{16.0} <16	12.3	12.3	<16.5	15.5	13.5	<16.5	<16.5	15.2	12.9
12.2	<16.5	12.0	12.0	14.5	15.3	15.5	<16.5	<16.5	15.8	12.5
12.1	15.0	11.7	11.6	<16.5	15.3	<16.5	14.6	<16.5	15.7	12.9
12.1	15.5	11.8	11.6	<16	15.5	<16.5	14.5	<16.5	14.9	12.8
12.35	<16.5	12.0	11.5	<16.5	15.0	<16.5	14.2	<16.5	15.4	12.6
12.1	15.6	11.6	11.7	<16.5	^{double} 14.5	<16.5	<16.5	<16.5	15.5	12.7
12.1	14.8	11.8	12.0	<16.5	^{double} 15.0	<16.5	"	"	15.0	12.4
12.0	16.0	12.2	11.9	<16.5	15.2	<16.5	"	"	15.0	12.8
12.2	15.2	12.4	11.9	<16.5	15.3	"	"	"	14.4	12.6
12.0	15.8	12.4	12.0	"	15.5	"	"	"	15.3	13.0
12.8	15.9	13.9	12.0	<16.5	<16	<16.5	"	"	15.0	12.7
12.9	15.7	12.5	12.7	<16.5	<16.5	<16.5	13.8	"	14.5	12.7
12.8	16.0	12.2	12.0	<16.5	<16	"	13.7	"	15.2	12.8
12.7	16.0	12.2	12.3	15.0	46	16.3	12.5	<16.5	15.5	13.0
12.6	16.0	12.4	12.0	15.0	15.5	16.0	12.5	"	15.5	12.7
12.7	15.8	12.4	12.2	14.9	15.5	16.0	12.4	"	15.5	12.5
12.6	14.5	12.5	12.1	14.8	16.0	16.0	12.4	"	15.8	13.0
12.7	14.9	12.4	12.0	15.0	15.5	16.0	12.4	"	15.8	12.9
12.8	15.2	12.4	12.1	14.9	<15.5	16.0	12.2	"	15.1	12.7
12.4	16.0	12.1	12.1	<16.5	<16	15.8	<16.5	"	14.7	12.9
12.4	15.0	13.8	12.1	<16.5	20	—	<11	<11	15.8	—
12.3	<16	13.8	12.1	<16	13.5	—	"	"	15.8	—
12.1	14.7	13.3	12.2	—	13.7	—	"	—	—	—
12.1	14.8	—	—	—	15.5	—	—	—	14.8	—

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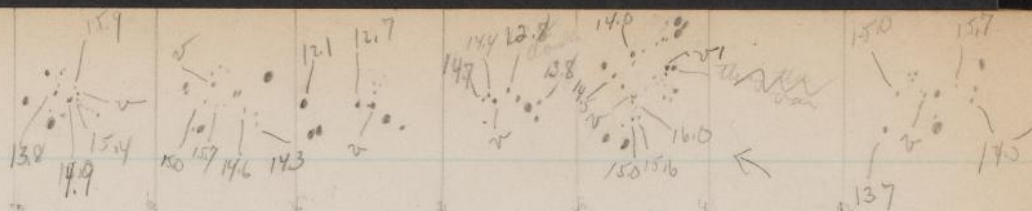
Oct. 1935

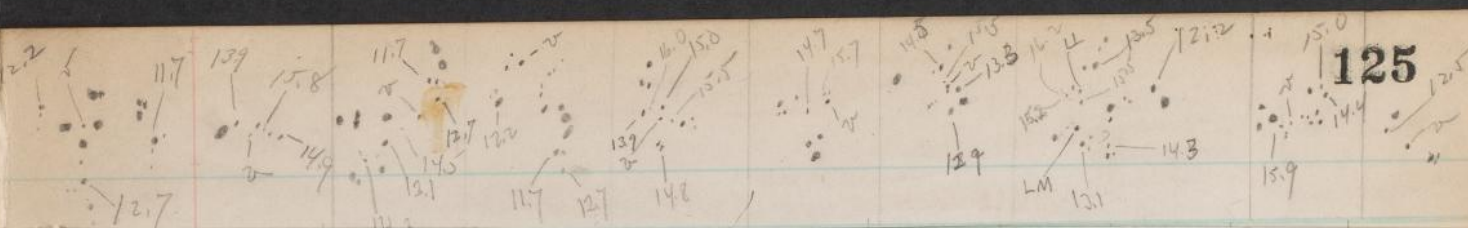


		336	392	B 199	337	B 75	B 1	377
25414	MF 11844	15.5	15.2	11.8	14.2	15.0	<16.5	14.0
418	883	<15	<15	12.1	14.0	15.0	<15	14.5
19	899	15.5	15.3	12.0	13.6	15.0	<15	14.7
21	919	15.5	<15.5	12.8	13.9	15.0	15.0	15.0
37	973	<15	<15	13.1	14.4	15.0	14.5	—
93	12285	<15	14.5	12.0	14.0	14.5	Bt	14.8
745	13120	<16	15.2	13.3	13.2	14.5	B0?	<15
49	134	<16.5	15.0	12.1	14.3	14.5	Bt	<15.5
94	287	—	—	11.8	—	14.0	Bt	—
99	327	<16	14.8	12.1	13.0	15.0	Ft	Bt
822	398	<15.5	15.0	12.1	13.8	14.8	<16	<15.5
51	463	14.8	<15.5	12.4	14.4	15.0	<16	14.2
54	481	14.8	<16	12.2	14.3	14.2	<16	14.5
55	495	—	—	12.0	13.8	15.0	<16	—
61	500	15.0	<15	12.0	13.9	14.5	<15	—
62	502	—	—	13.2	14.4	14.5	—	—
26067	14090	—	—	12.0	—	15.0	?	—
89	144	—	—	—	—	—	—	—
90	150	—	—	13.1	14.0	15.0	—	—
91	164	—	—	Bt	—	—	—	—
92	175	—	—	12.3	—	—	—	—
93	190	—	—	12.0	—	14.0	<15	—
95	203	—	—	12.9	—	—	—	<15
97	228	—	—	—	—	—	—	—
101	240	<15	<15	12.2	13.0	15.0	?	—
102	246	—	—	12.0	14.0	F	<15	—
103	250	—	—	—	—	—	—	—
104	256	<16	15.2	12.0	13.8	14.4	<15	14.5
105	259	—	—	Bt	—	—	—	—

403	B76	B163	326	B84	311	362	LM Sgc	LL Sgc	B96	B 90
12.4	15.0	12.1	12.3	14.6	BL	4/6	4/6.5	15.2	15.2	12.5
12.4 ^{dy}	<15.5	12.8	12.0	14.6	?	4/6	<16	15.5	15.5	12.9
12.3	14.5	12.0	12.4	14.5	BL	4/6.5	<16.5	15.3	15.8	12.5
12.8	15.5	12.7	12.3	14.0	BL	4/6.5	"	15.0	15.8	12.9
13.0	15.6	12.2	12.0	13.8	?	—	<16.5	14.0	15.6	—
12.0	14.8	12.1	12.0	15.1	—	—	15.0	14.3	—	—
12.8	16.0	12.7	12.0	46	BL	4/6.5	<16.5	12.8	15.5	13.1
12.5	15.4	12.0	12.0	<16.5	?	4/6.5	"	12.4	15.5	12.8
—	15.6	—	—	—	?	—	—	—	—	—
12.8	16.0	12.6	12.2	<16.5	BL	—	<16.5	13.4	15.0	—
12.8	<15.5	12.1	12.0	<16	BL	12.3	<16.5	15.5	15.0	12.6
12.5	4/6	12.1	12.0	15.5	BL?	—	"	16.0	14.8	BL
12.5	4/6	11.9	12.1	<16	BL	13.2	<16.5	<16.5	15.5	12.8
12.2	<15.5	—	—	—	BL	—	—	—	—	—
12.7	<15.5	12.1	12.0	15.0	BL?	—	<16	<16	14.8	—
12.5	<15.5	12.1	12.0	15.3	?	—	—	—	15.6	—
—	15.0	—	—	—	—	—	—	—	—	—
12.9	15.2	—	—	<16	<15.5	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—
—	<15.5	—	—	—	<15.5	—	—	—	—	—
—	<15	—	—	—	<15	—	—	—	—	—
12.7	<15.5	13.5	12.0	15.2	?	—	—	—	15.0	—
12.6	15.0	12.3	—	14.8	—	—	—	—	—	—
12.9	<16	12.1	12.0	14.6	<15	—	<16	14.8	14.8	12.8
—	<15	—	—	—	—	—	—	—	—	—

Oct. 1935

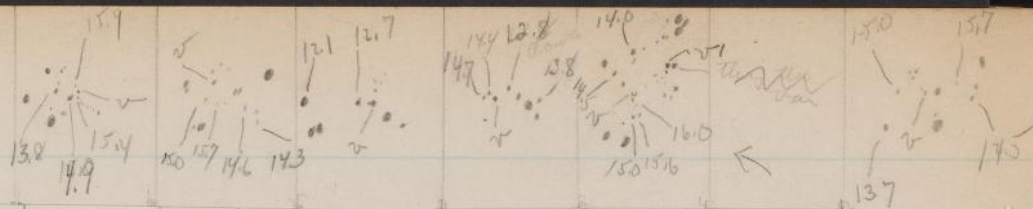




403	B76	B163	326	B84	311	362	LM.Sq	LLSq	B96	B95
Bt	<15	—	—	—	F-5	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—
12.2	<15	12.0	—	14.0	Bt?	—	—	—	—	—
12.1	<15.5	12.0	—	14.0	—	—	—	—	—	—
12.4	<15	12.0	—	—	—	—	—	—	—	—
12.3	<15	12.0	—	—	—	—	—	—	—	—
12.4	<15	12.0	—	13.9	—	—	—	—	—	—
12.2	Bt	—	—	—	—	—	—	—	—	—
12.2	—	—	—	—	—	—	—	—	—	—
—	<15	—	—	—	—	—	—	—	—	—
12.1	<15	—	—	—	—	—	—	—	—	—
Bt	<15	—	—	—	Bt	—	—	—	—	—
12.5	<15.5	—	—	13.8	—	—	—	—	—	—
12.3	<15	—	—	—	—	—	—	—	—	—
?	—	—	—	—	—	—	—	—	—	—
Bt	—	—	—	—	—	—	—	—	—	—
—	<15	—	—	—	—	—	—	—	—	—
—	<15	—	—	—	—	—	—	—	—	—
—	Bt	—	—	—	—	—	—	—	—	—
12.4	<15	—	—	<15.5	—	—	—	—	—	—
Bt	—	—	—	—	—	—	—	—	—	—
12.6	<15.5	13.1	Bt	15.5	F	—	—	—	<16	—

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Oct. 1935

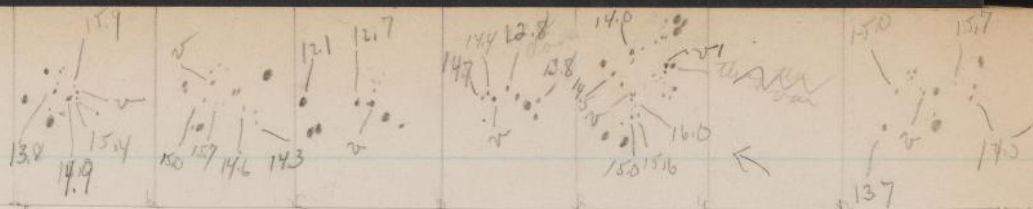


		336	392	B 199	337	B 75	B 1	377
26174	MF 14570	—	—	12.1	14.2	B	—	—
75	580	415	415	12.2	14.4	15.0	—	—
76	592	—	—	12.0	13.8	14.4	—	—
77	608	—	—	12.0	—	—	—	—
79	619	—	—	12.0	—	14.4	—	—
80	636	—	—	12.0	14.1	14.0	—	—
81	645	—	—	12.1	13.5	15.0	—	—
82	660	—	415	12.0	14.4	15.0	B	—
86	688	—	—	12.0	14.0	15.0	?	—
87.213	690	—	—	12.0	—	—	—	—
244	691	—	—	12.0	—	F	B	—
276	692	—	—	12.1	+	14.9	B	—
308	693	—	—	12.0	—	14.0	B	—
372	695	—	—	12.0	—	14.0	B	—
404	696	—	—	12.0	—	14.0	B	—
435	697	—	—	B	—	—	—	—
90	721	—	—	12.0	—	14.5	—	—
202	732	—	—	12.2	—	14.8	B	—
04	738	—	—	12.0	13.1	—	B	—
08	749	—	—	12.2	—	—	B	—
10	758	—	—	12.1	14.4	15.0	B	—
14	782	—	—	11.9	13.5	15.0	13.5	—
17	805	—	—	11.9	13.3	14.0	B	—
39.	858	—	—	12.2	—	—	B	—
475	15453	—	—	12.2	—	14.8	416	—
479	475	—	—	B	—	—	14.5	—
83	511	—	—	12.9	—	—	14.5	—
501	554	—	—	12.0	+	14.8	14.0	—

403	B76	B163	326	B84	311	362	LM Sg	LL Sg	B96	B95
12.7	—	12.2	—	—	—	—	—	—	—	—
12.5	L15	12.3/12.0	—	L15	—	—	—	—	—	—
12.7	L14	12.0	—	L15	BT	—	—	—	—	—
—	L15	—	—	—	BT	—	—	—	—	—
12.9	15.0	—	—	L15	—	—	—	—	—	—
12.2	—	—	—	—	—	—	—	—	—	—
12.2	L15.5	11.9	—	L15.5	—	—	—	—	—	—
12.0	L15	11.9	—	L15	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—
—	L15	—	—	—	—	—	—	—	—	—
—	L15	—	—	—	—	—	—	—	—	—
—	14.7	—	—	—	—	—	—	—	—	—
—	14.9	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—
12.2	L15	—	—	—	—	—	—	—	—	—
12.3	L15	—	—	—	BT	—	—	—	—	—
12.0	—	—	—	—	—	—	—	—	—	—
—	L15	—	—	—	—	—	—	—	—	—
12.3	15.5	—	—	L15.5	—	—	—	—	—	—
12.3	L15	—	—	L15	—	—	—	—	—	—
12.3	L15	12.1	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—
—	15.8	—	—	—	?	—	—	—	—	—
—	15.0	—	—	—	L16	—	—	—	—	—
—	L15.5	—	—	—	L16	—	—	—	—	—
—	L15.5	—	—	—	L16	—	—	—	—	—

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		336	392	B 199	337	B 75	B 1	377
26504	MF15589	—	—	12.4	—	15.0	13.5	—
62.	15791	—	15.3	11.8	13.6	14.6	16.5	—
602	16075	—	—	Bt	—	—	—	—
871	16931	—	—	12.7-6	—	—	16.5	—
871 897	17055	16.0	15.0	12.0	14.4	15.1	16.5	14.0
917	17158	15.5	15.3	12.2	14.4	14.7	16	14.0
27140	17812	—	—	12.0	—	—	—	—
293.214	18417	—	—	Bt	—	—	—	—
263	421	—	—	12.0	—	14.5	14.5	—
499	441	—	—	Bt	—	—	—	—
94.478	443	—	—	12.2	14	—	—	—
95.311	453	—	—	Bt	—	—	—	—
95.476	467	—	—	Bt	—	—	—	—
95.382	459	—	—	Bt	—	—	—	—
96.216	469	—	—	12.3	—	—	—	—
242	471	—	—	12.6	—	—	—	—
269	473	—	—	12.8	—	—	—	—
293	475	—	—	12.8	—	—	—	—
.321	477	—	—	12.6	—	—	—	—
.344	479	—	—	12.3	—	—	—	—
369	481	—	—	12.2	—	14.0	15	—
394	483	—	—	12.1	—	—	—	—
417	485	—	—	12.2	—	—	—	—
440	487	—	—	12.1	—	—	—	—
464	489	—	—	11.9	—	—	—	—
97.238	495	—	—	12.0	—	—	—	—
356	501	—	—	12.0	—	—	—	—
403	505	—	—	12.0	13.9	—	—	—

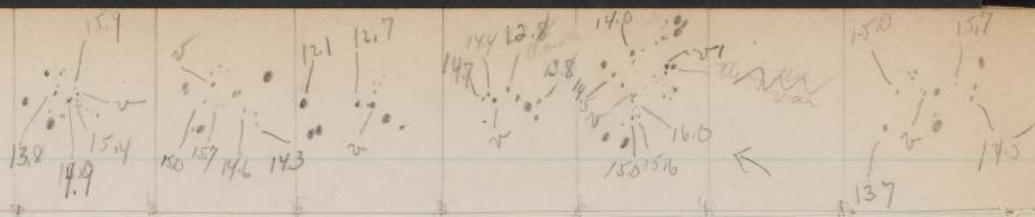
403	B 76	B 163	326	B 84	311	362	LM Sgr	LL Sgr	B 96	B 95
—	15.0	—	—	—	< 16	—	—	—	—	—
12.8	< 16	11.9	—	14.0	14.7	—	—	—	15.0	—
—	< 16	—	—	—	AT?	—	—	—	—	—
^{VF} 13.2	< 16	12.3	12.1	46.5	< 15	12.5	14.9	< 16	16.0	12.8
12.8	15.1	12.8	12.1	< 16.5	15.5	13.3	15.2	< 16.5	15.0	12.8

~ BT	< 14.5	—	—	—	—	—	—	—	—	—
BT	—	12.5	BT	—	—	—	—	—	—	—
12.0	—	12.1	12.1	—	—	—	12.5	—	—	—

11.9	—	12.5	11.9	—	—	< 14	12.0	< 13	—	—
12.0	—	12.5	12.0	—	—	< 14	13.0	—	—	—
12.0	—	12.6	12.0	—	—	—	—	—	—	—

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Oct. 1931



		336	392	D 199	337	B 75	B 1	377
27 297.426	MF 18507	—	—	12.5	<13.5	—	—	—
450	509			12.3	.11			
474	511	+	—	12.6	—			
98.394	513			Bt				
492	521	—	—	11.9	<13.5	—	—	—
99.217	528			Bt				
469	548	—		12.1	14.4	—	<15	—
300.221	557			12.0				
319	565			12.0				
485	579	—	—	12.0	14.0			
301.218	586			12.9	—	14.6	<15	—
242	588			12.5				
266	590			12.4				
290	592			12.0				
302.219	614			11.9				
321	622			12.0				
345	624			12.1				
02.369	626			12.3				
391	628			13.0				
463	634	—	—	13.1	—	—	—	—
305.355	657			Bt				
306.358	670	—	—	11.9	—	FA	—	—
355.254	786	—	—	ns	—	—	—	—
316	787	<16.5	<16	12.4	13.0	15.0	15.0	15.5
590.326	19 245	—	—	12.2	—	14.8	<16	—
522	257	—	—	12.1	—	<15	<15	—
554	259	15.2	<15	12.1	13.0	15.0	<15.5	14.5
592.447	267			12.0	—	15.0	<15.5	←

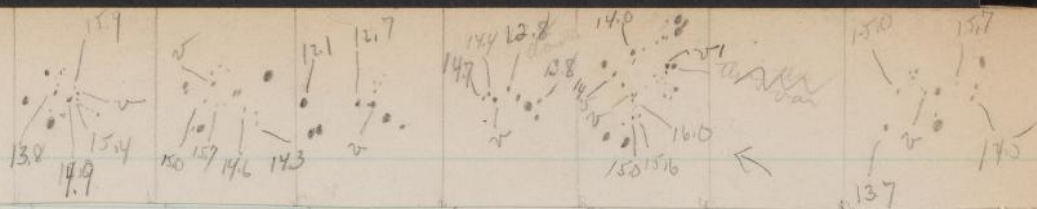
403	B76	B163	326	B84	311	362	LMS _g	LL S _g	B 96	B95
12.0	—	12.6	12.0	—	—	—	—	—	—	—
11.9	—	12.7	12.0	—	—	—	—	—	—	—
11.9	—	12.5	12.0	—	—	—	—	—	—	—
11.9	—	12.4	11.9	—	—	—	13	12.0	—	—
12.0	—	12.6	12.0	—	—	—	12.5	—	—	—

12.0 — 12.5 11.9

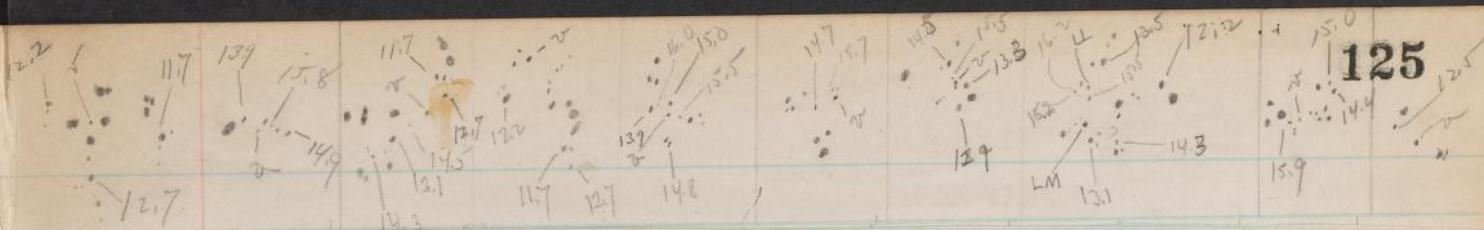
12.0	—	12.7	12.0	—	—	—	13.0	—	—	—
—	<14	—	—	—	—	—	—	—	—	—
12.4	15.0	11.7	12.1	<16	15	<16	15.5	14.0	<15	12.6
13.4	<15	—	—	—	<15	—	—	—	—	—
12.8	<15	—	—	—	—	—	—	—	—	—
13.3	<15	13.4	12.0	<15.5	—	<15.5	<15.5	<15.5	<15	12.5
15	<15.5	—	—	—	15.5	—	—	—	—	—

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Oct. 1931



		336	392	B 199	337	B 75	B 1	377
27592.545	MF 19273	—	—	12.0	—	15.0	15.5	—
610	277					15.0		
643	279			12.0		14.2	15.5	
593				B1				
601.202	283							
335	287			12.3		14.8	15	—
399	291			13.5		15	15	
465	295			12.55		15	15	
562	301			B1		—	—	
596	303			12.1		15	15	
627	305			B1				
94.636	321			13.0		—	16	
95.272	325			12.0				
363	331			12.0		15.0	15	
96.456	340			12.4		14.8	16	
97.240	347			12.0				
273	349			12.0		14.4	15	
338	353			12.0		14.8	15.5	
579	361			B1				
601.208	381			11.9				
273	385			11.9		14.4	15	
339	389			12.1		14.7	—	
502	399			12.0		15.0	15.5	
566	403	15.5	15	12.0	14.1	15.0	15.5	—
661	409			12.0				
603.207	416	—	—	13.0				
263	419			12.7		—	15	
322	422			12.3		15.3	15.5	
379	425			11.9		15.0	—	
563	434			12.0		14.0	15	



403 B 76 B 163 326 B 84 311 362 LMSgr LLSgr B 96 B 95

<15

15.4

<15.5

15.5

<15

<15

<15

<15

<15

14.7

<15

15.0

16.0

15.5

<15

—

16.0

<16

14.7

—

15.0

<15

12.8

<15.5

—

12.4

<15

13.3

12.0

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<15

<15

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<15

12.3

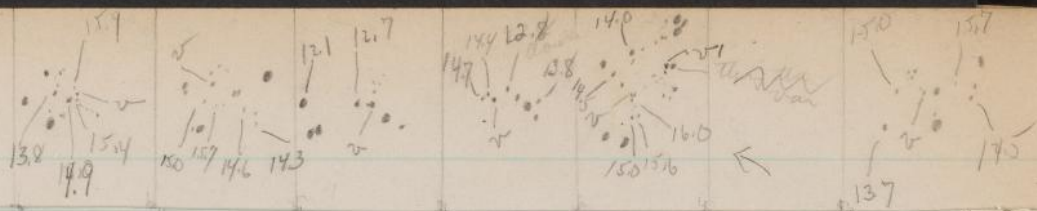
14.9

15.1

<15

<15

Oct. 1931



403	B76	B163	326	B84	311	362	LM	LL	B96	B95
12.1	—	—	—	—	—	—	—	—	—	—
12.2	<15	12.2	—	<15	<15	—	—	—	—	—
B7	<15.5	—	—	—	—	—	—	—	—	—
11.9	<15	12.0	12.2	<15	—	<15	14.5	<15	—	12.6
12.6	15.2	14.0	12.1	15.2	—	13.3	15.5	14.8	15.6	12.5
12.5	16.3	12.2	12.2	15.7	—	16.0	<17	<17	15.0	12.6
13.0	<15.5	12.0	12.6	<15	<15	<15	<15	<15	<15.5	12.8
13.0	15.7	12.0	12.4	15.8	<16.5	<15	these growths corresponding A plate at 12 h - 39			
13.1	<15	12.1	12.1	15.5	<15	<14				
12.8	<15	12.0	12.1	15.4	<15	<14	<15	<15	15.0	12.8
12.6	<16	12.0	12.0	15.0	<16	<16	—	—	—	—
12.65	<15	11.9	12.0	14.7	<15.5	<14	—	—	—	—
12.5	<15.5	11.9	12.1	14.2	<15	<15	<15	<15	16.0	12.6
12.4	<15.5	11.9	12.1	—	<15	—	—	—	—	—
12.5	<16.5	11.9	12.1	—	15.5	—	—	—	—	—
12.5	<15	11.9	12.1	—	—	—	—	—	—	—
12.45	15.4	11.9	12.0	14.2	—	—	—	—	—	—
12.4	14.9	11.9	12.0	14.2	15.5	—	—	—	—	—
12.45	15.0	11.7	12.1	14.2	15.3	<14	—	—	—	—
12.5	16.0	11.7	12.0	14.0	15.3	—	—	—	—	—
12.4	<15.5	11.9	12.0	13.9	15.0	<14	—	—	—	—
12.45	<16	11.9	11.9	13.9	15.3	—	—	—	—	—
12.4	16.2	13.0	12.0	14.6	15.5	14.5	<16	<16	15.9	12.7
12.4	<16	13.0	12.0	14.6	15.5	—	—	—	—	—
12.4	15.6	13.5	12.0	14.6	?	—	—	—	—	—
12.3	16.0	14.0	12.0	14.7	?	—	—	—	—	—
12.3	<16	14.0	12.0	14.7	15.5	—	—	—	—	—
12.35	<16	14.2	12.0	14.8	?	14.0	<16	<16	14.8	12.8

Oct. 1935

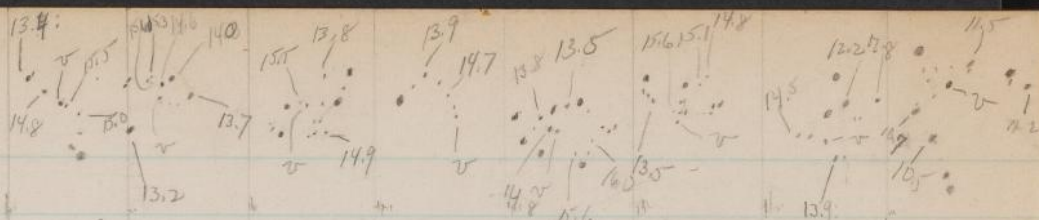


		336	392	B 199	337	B 75	B 1	377
26595	A 15751	16.5	14.7	12.6	14.3	14.9	11.6	15.0
602	759	16.3	14.5	12.1	14.3	15.2	15.0	15.1
898	16140	—	—	—	13.9	—	—	15.4
971	237	17.0	15.7	12.0	14.3	15.2	14.6	15.5
27680 397	17110	15.0	15.5	11.9	13.2	15.3	13.5	15.5
684	126	15.0	15.5	12.0	14.5	15.3	13.5	15.5

403	876	B 163	526	B 84	311	362	LM Sp	LL Sp	B 96	B 95
12.4	14.8	14.2	12.0	149	—	—	—	—	—	—
12.3	15.8	12.3	12.2	15.0	—	13.0	< 16	< 16	15.6	12.7
12.5	16.5	12.0	12.1	< 17	16.3	13.0	15.1	< 17	15.3	12.2
12.45	16.2	12.0	12.25	< 17	15.5	—	—	—	—	—
12.45	16.0	11.9	12.4	< 17	16.1	—	—	—	—	—
12.45	15.0	11.5	12.4	< 17	16.2	—	—	—	—	—
Irreg.	cl	Irreg	Irreg.	L	close comp cl	L	L	L	cl	?

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Nov 1, 1935

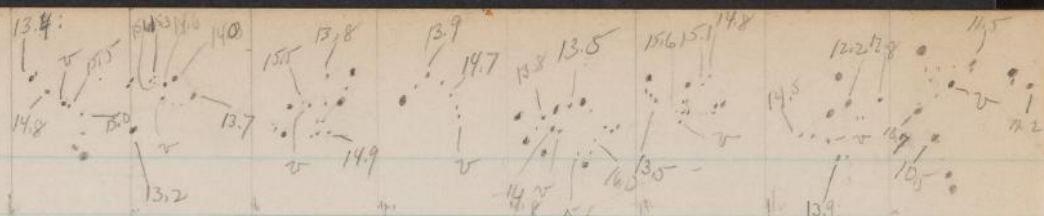


		B56	X40A	B104	B105	B106	B58	370	280
23911	MF 8537	13.4	13.8	15.6	14.6	14.7	14.7	16.5	10.2
965	8673	13.4	16	15.4	13.7	15.3	15.6	14.4	10.8
992	8724	13.4	16.5	15.0	15.0	14.7	15.5	13.4	10.5
24026	8785	13.4	11	16.5	14.7	15.2	15.0	12.7	10.4
056	8842	—	—	14.8	13.9	15.0	15.6	—	11.2
411	9816	13.5	13.5	16	14.1	14.8	14.4	16.5	10.5
412	18	13.4	13.2	16.0	14.0	14.7	14.2	11	11.1
413	38	13.5	13.5	14.4	14.0	14.8	14.2	—	10.75
626	10141	—	—	—	—	—	—	—	—
27	146	—	—	—	—	—	—	—	—
49	240	13.4	13.5	15.5	15.0	14.8	14.6	16.5	10.6
50	249	13.2	13.5	14.8	14.5	14.5	14.7	16.5	10.6
54	271	—	—	14.5	14.6	14.8	15.4	—	10.6
55	279	13.6	13.7	15.2	14.7	14.7	15.5	11	10.5
56	284	13.5	13.7	15.5	14.6	14.6	15.2	11	10.5
81	365	13.4	14.1	15.5	14.5	15.0	15.4	16.5	10.6
711	522	14.7	15.3	15.4	13.8	15.1	14.0	14.5	10.6
12	534	13.4	15.4	15.4	13.5	15.0	14.1	14.6	10.5
27	572	13.5	16.0	15.3	14.6	14.4	15.2	14.3	10.6
28.500	574	13.4	16.0	15.5	13.9	14.5	15.2	13.9	10.5
565	576	13.6	—	15.5	14.5	14.5	15.2	—	10.4
596	577	13.5	—	14.9	14.7	14.5	15.2	—	10.4
630	578	14.2	—	14.8	14.5	14.9	15.3	—	10.5
662	579	14.6	—	14.0	15.0	14.6	15.3	—	10.6
25855	11533	—	16.0	15.5	14.2	14.7	14.9	—	10.5
383	662	—	—	15.1	14.8	14.8	15.3	—	—
86	705	—	—	—	14.9	15.2	14.5	—	—
88	718	—	—	14.9	—	—	14.4	—	—
90	748	—	—	15.4	14.9	15.0	14.7	—	—

406	284a	DM	ES	ER	AP	DX	AN	B	D	G
15.0	<16	14.4	<16	<16.5	<16.5	15.0	<16.5	<16.5	<15.2	<16.5
15.2	16.0	14.4	<16.5	"	15.7	15.5	"	14.9	<15.5	<"
15.0	<16	<16	BT	15.6	15.2	—	"	13.8	LT	"
15.0	F	15.0	<16.5	15.5	15.2	14.7	15.0	<16.5	14.9	<15.0
15.2	15.7	<"	<16.5	<16.5	<16.5	15.5	<16.5	16.5	<15.5	16.0
16.0	15.5	<16.5	15.0	<"	"	—	<16	<16	<15.5	<16.5
15.5	<16	"	15.3	<"	"	15.5	"	<16.5	<15.5	"
15.1	16.0	"	15.3	"	"	15.5	<16.5	"	<15.5	"
—	16.0	—	—	<"	"	16.0	16.5	<"	<15.5	<16.5
—	16.0	—	—	<16	"	16.0	"	"	<15.5	"
15.0	15.9	<16.5	<16.5	<16.5	15.6	16.0	<16.5	"	<15.0	"
15.0	16.5	"	"	"	15.5	16.0	"	"	<15.0	"
15.8	15.9	16.0	<"	"	—	15.5	"	"	<15.0	"
15.5	16.0	15.8	"	"	15.0	15.2	"	"	<15.0	"
15.0	15.2	15.8	"	"	15.2	15.5	16.0	"	<16	"
15.0	15.0	15.2	13.8	"	"	14.5	16.0	<16.5	"	"
15.8	15.0	15.3	14.2	"	"	15.3	15.0	16.0	"	"
15.5	15.3	15.8	13.8	"	"	15.2	15.3	<16.5	"	16.0
15.1	15.2	16.4	14.8	"	"	16.2	15.2	<16.5	"	<16
15.5	15.5	16.2	15.1	"	"	16.0	15.0	<16.5	"	15.0
15.2	15.1	15.6	—	"	"	16.0	15.0	<16.5	?	<16.5
15.2	15.0	15.0	—	"	"	16.2	15.2	"	—	"
15.5	15.2	15.3	—	<"	"	16.2	15.0	<16.5	—	16.0
—	15.0	15.6	15.2	16.5	"	16.3	15.0	<16	<16.5	<16
F	15.6	<16.5	<16.5	?	15.0	14.8	15.0	<16.5	15.0	<16.5
—	15.5	<16	<16.5	15.5	15.0	15.3	—	<16	15.0	13.5
—	15	<16	"	—	—	15.7	—	<16	15.2	13.5
—	—	8?	"	—	—	—	—	—	15.0	—
15.8	—	15.8	—	15.5	<16	16.0	15.8	<16.5	14.8	?

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Nov 1, 1935

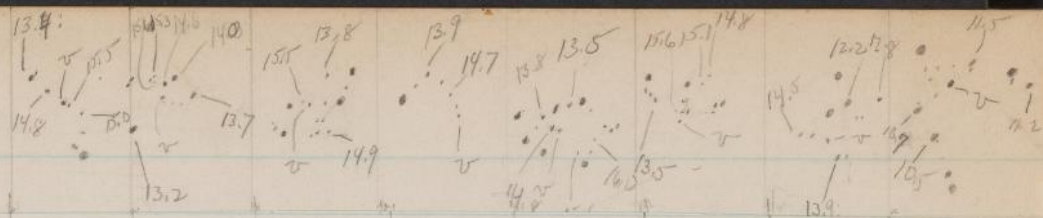


		B 56	X4 GA	B 104	B 105	B 106	B 58	370	280
25414	MF 11844	B	13.0	15.5	14.7	15.2	14.4	16.5	10.4
418	883	13.4	12.9	15.2	14.3	15.0	14.3	11	10.6
19	899	—	13.0	15.5	14.5	15.0	14.6	—	10.6
21	919	13.4	13.1	14.7	14.4	15.1	14.8	11	10.4
37	973	—	—	15.5	14.4	14.5	14.0	—	—
93	12285	—	—	15.5	13.9	15.0	15.0	—	13.1
745	13120	14.0	15.2	15.0	14.5	14.8	15.5	13.3	10.6
49	134	13.8	15.5	15.5	14.6	14.9	14.7	12.9	10.5
94	287	—	—	—	—	14.9	15.0	—	—
99	327	—	—	15.5	14.3	14.9	14.6	—	—
832	398	13.5	16.6	15.5	14.6	14.8	14.3	14.9	10.6
51	463	—	—	15.5	15.0	15.0	14.5	—	13.1
54	481	—	15.5	15.5	14.7	15.0	14.4	—	10.6
55	495	—	—	15.3	15.0	15.1	15.1	—	—
61	500	—	—	14.9	14.5	15.0	15.3	—	—
62	502	—	—	14.9	14.5	15.0	15.6	—	—
26067	14090	—	—	15.5	—	14.7	14.4	—	—
89	144	—	—	—	—	—	—	—	—
90	150	—	—	—	—	—	—	—	—
71	164	—	—	—	—	—	—	—	—
92	175	—	—	—	—	—	15.5	—	—
93	190	—	—	14.5	—	14.6	14.8	—	—
95	203	—	—	15.5	—	—	15.5	—	—
97	228	—	—	—	—	—	—	—	—
101	240	—	—	15.5	14.3	14.8	15.5	—	—
2	246	—	—	14.5	15.5	—	15.5	—	—
3	250	—	—	—	—	—	—	—	—
4	256	—	—	15.3	13.9	14.9	15.5	—	13.1
5	259	—	—	—	—	—	15.5	—	—

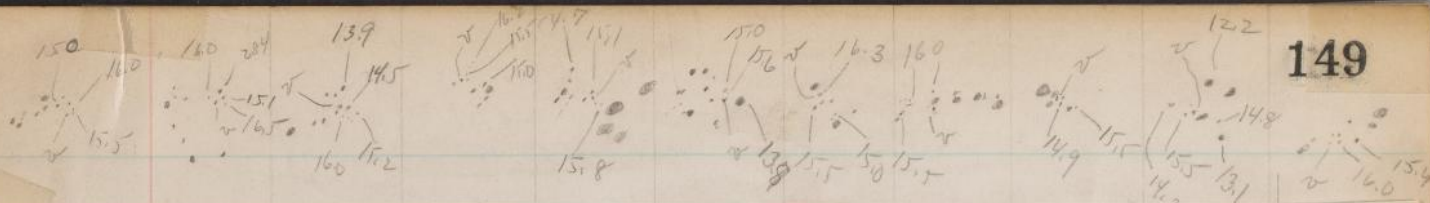
Luytens Var →											
DXa	406	284a	DM	FS	ER	AP	DX	AN	B	D	← Luytens was
—	15.2	16.1	<16.5	15.6	<16.5	<16.5	—	<16.5	<16	?	<16.5
—	15.6	16.2	11	—	<11	11	11	11	15.5	—	<11
—	15.2	15.2	11	<16	11	11	—	<16	<15.5	—	—
F	15.0	16.3	11	<16.5	<16.5	11	11	16.0	<16	<15	<16
11	15.0	16.0	15.5	<15.5	<16.5	11	11	<16.5	<16.5	15.5	<16.5
—	—	—	15.5	—	—	—	—	—	—	—	—
11	11	—	—	?	<16	<16.5	—	<16	<16.5	<16.5	<16.5
15.5	14.9	15.5	?	?	11	11	11	11	16.0	11	11
15.6	—	16.3	—	14.8	<16.5	14.4	16.5	<16.5	<16.5	11	11
—	15.5	15.5	<16.5	14.8	<16	14.4	—	<16	11	13.0	?
—	15.5	<15.5	<16	<16	<16	<16	—	16.5	<16	—	<16
15.5	15.5	15.5	<16.5	<16	14.8	<16.5	11	<16.5	<16.5	?	<16.5
—	16.0	16.2	11	<16.5	14.2	<16	13.2	16.0	11	<15	11
—	—	—	11	<16.5	14.5	11	15.0	16.0	11	<15	11
11	<15.5	—	<16	14.2	11	14.9	15.5	11	<16.5	11	11
11	15.8	<16.5	—	14.2	11	14.9	15.2	11	11	11	11
—	15.7	—	<15	<16	<16	<16	<16	<16.5	<15	<16	<16
—	<16	—	—	<16	<16	<16	<16	<16	11	11	11
—	<15.5	<16	—	<16	<16	<16	11	11	<16	11	11
—	15.8	—	—	—	11	11	11	11	11	11	11
—	—	—	—	<15.5	11	11	11	11	11	11	11
—	<16	—	—	<16	<16	11	11	11	11	11	11
—	<16	—	—	<16	11	11	11	11	11	11	11
—	<16	—	—	16.0	11	11	11	11	11	11	11
—	<16	<16	—	<16	11	11	11	11	11	11	11
—	<16	11	<16	11	11	11	16.1	11	11	11	11
—	<16	—	—	?	11	11	<16	11	11	11	11
F	15.8	<16	—	16.0	<16.5	<16.5	<16.5	<16.5	<16.5	<16.5	<16.5
—	<16	—	—	16.0	11	11	16.0	11	11	11	<16.5

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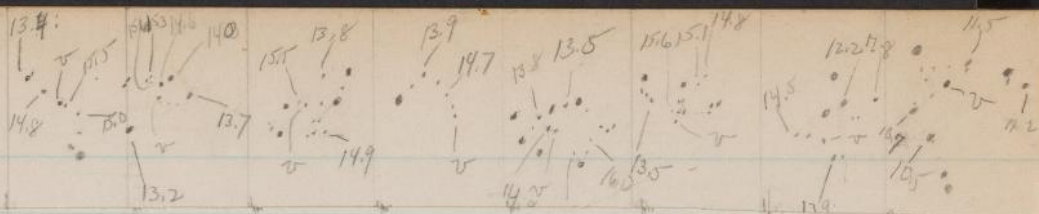
		B 56	X Y C A	B 104	B 105	B 106	B 58	370	280
26117	4F14277	—	—	15.0	—	—	14.5	—	—
18	294			<15	—	5?	<15		
20, 393	317			<15	13.9	14.8	<15		
424	318			<15	14.0	—	<15		
456	19			?	und	—	2.5		
489	20			15.5	14.5	14.8	15.5		
520	21			<15	14.7	14.7	<15.3		
552	22			15.0	F	13.5	<15		
584	23			14.9	F	—	<15		
—	323			—	—	—	—		
23	49			<15	—	—	<15		
24	63			<15	—	—	<15		
25	73			<15	—	14.7	<15		
30	85			15.0	14.7	14.7	14.0		
31	97			<15	14.7	15.0	14.0		
44	412			<15	14.4	—	<15		
45	19			?	—	—	F		
46	28			—	—	—	<15		
47	38			15.0	14.8	14.5	<15		
53.434	60			—	—	—	14.2		
565	64			<15	—	13.5	15.0		
54	76			<15.5	14.4	14.8	<15		
55	88			—	—	—	14.7		
56	502			—	—	—	15.2		
58	15			<15	14.9	15.1	15.0		
59	27			—	—	—	15.0		
60	38	—	—	<15	—	—	14.5	—	—
61	46	—	—	<15	14.4	14.7	<15	—	—
62	553	—	—	—	—	—	<15	—	—



406	284a	DM	ES	ER	APP	DX	AN	B	D	G
—	BT	—	—	7	4/6	4/6	4/6	4/6	4/6	4/6
	4/5.5									
	4/6									
	4/5.5									
	—									
	4/6									
	?									
	B?									
	B?									
	4/6.5				BT	4/6.5	4/6.5	4/6.5	4/6.5	4/6.5
	4/7									
	15.2									
	4/5.5									
	4/6				BT?	4/6.5	4/6.5	4/6.5	4/6.5	BT
	4/5.5									
	4/6				BT?	4/6	4/6	4/6	4/6.5	4/6
	BT									
	4/5.5									
	?									
	15.4									
	15.2									
	15.8									
	4/6				14.8	4/6.5	4/6.5	4/6.5	4/6.5	4/6.5
	15.5									
	4/5.5									
←	4/6.5	BT	—	14.8	4/6.5	4/6.5	4/6.5	4/6.5	4/6.5	4/6.5
4/5	16.0	4/6	?	14.8	4/6.5	4/6.5	4/6.5	4/6.5	4/6.5	4/6.5
	15.1									

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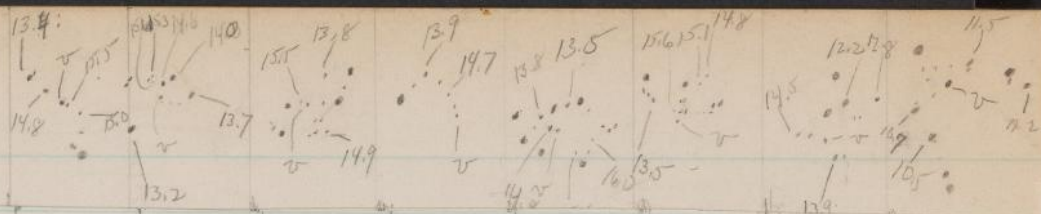
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		B56	XYGA	B104	B105	B106	B58	320	220
26174	MF14 570	—	—	—	—	—	14.4	—	—
75	580	—	—	15.0	BT	—	14.6	—	—
76	592	—	—	14.9	14.5	14.9	14.4	—	—
77	608	—	—	—	—	—	—	—	—
79	19	—	—	<15	—	14.6	14.2	—	—
80	36	—	—	<15	14.5	14.7	14.8	—	—
81	45	—	—	—	—	—	14.6	—	—
82	60	—	—	<15	14.8	14.6	<15	—	—
86	88	—	—	F	F	—	<15	—	—
87. 213	90	—	—	B	—	—	14.7	—	—
244	91	—	—	F	—	—	14.7	—	—
276	92	—	—	—	—	—	14.8	—	—
308	93	—	—	—	—	14.9	14.8	—	—
272	95	—	—	—	—	—	<15	—	—
404	96	—	—	—	—	—	<15	—	—
435	97	—	—	—	—	—	<15	—	—
90	721	—	—	—	—	—	<15	—	—
202	32	—	—	<15	14.4	—	14.6	—	—
04	38	—	—	14.8	MF	—	BT	—	—
08	49	—	—	—	—	—	<15	—	—
10	58	—	—	<15	14.8	14.5	15.2	—	—
14	52	—	—	14.8	14.5	—	<15	—	—
17	805	—	—	15.0	BT	—	<15	—	—
39	858	—	—	—	—	—	—	—	—
460	15394	—	—	—	—	—	15.0	—	—
72	424	—	—	—	—	—	14.5	—	—
73	439	—	—	—	—	—	14.1	—	—
75	453	—	—	—	—	—	14.4	—	—

406	284a	DM	ES	ER	AP	DX	AN	B	D	G
	L15									
—	15.2	—	BT?	—	L16	L16	46	15.0	15.0	L16
	16.0	L16	BT	BT?	L16.5	L16.5	16.0	14.8	15.0	L16.5
	~									
	L16									
	L16									
	?									
	L16									
	46	?	L16	L15	L16	L16	16.0	14.7	?	L16
	L16									
	L16									
	L16									
	L15									
	L15.5									
	L16									
	L15			—	L15	L15	L15	14.2	?	L15
	15.9	BT	L15	L15	L16	L16	15.2	14.2	med	L16
	L15.5									
	46			L16	15.5	L16	14.9	14.5	BT	L16
	15.5									
	L16									
—	15.5	—	—	L16	14.8	L15	14.7	14.9	D	L16
—	—	—	—	—	14.2	14.6	15.0	?	BT	—
—	L16.5	—	—	L16	15.1	14.9	46.5	14.2	L16	L15
—	L16			L16	15.0	15.0	L16	14.0	—	L16
	L16.5			L16	15.2	14.9	L16	14.1	L16	L16
	15.8			L16	15.0	14.9	46	13.9	L16	—
?	cl	L	L	L	L	?	?	L	L	ms

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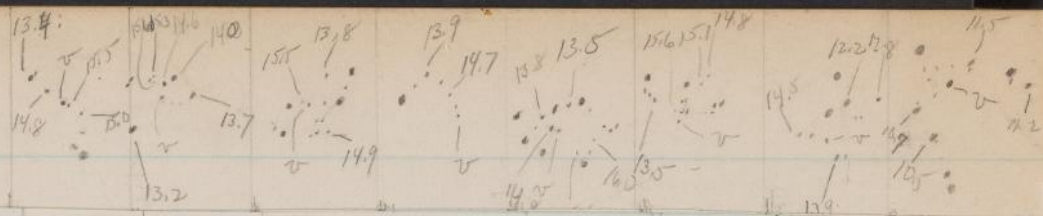


		B56	XVGA	B104	105	106	58	370	280
26479	MF 15475	—	—	—	—	—	14.9	—	—
81	494						14.8		
83	511						15.0		
89	540						—		
501	554						14.3		
04	589						14.5		
62	791	—	—	15.5	14.6	15.1	15.3	—	—
602	16075	—	—	—	—	—	—		
838	16767						15.2		
71	931						14.6		
97	17055	13.4	46	15.5	14.4	14.9	15.3	416	10.6
917	158	13.4	416	14.9	14.5	14.8	14.9	416	11.2
27140	812	—	—	—	—	—	415	—	—
293.263	18421	—	—	14.5 ¹⁰	—	14.5 ¹⁰	415	—	—
299.417	544	—	—	—	—	—	14.5	—	—
305	657						14.6		
306	670					14.8	14.8		
355	786								
355	787	—	416.5	15.5	F	F	15.1	—	10.5
590.359	19247	—	415	—	—	14.8	14.1	—	—
554	259	13.4	16.0	414.5	14.6	14.9	15.0	14.3	11.1 ^F
594.	321	—	—	—	—	—	15.6	—	—
596.456	340			15.5	—	14.7	15.4	—	—
601.566	403	—	—	414.5	14.6	414.5	14.0	—	—
660.255	455			415	—	14.5	15.2	—	—
618	B 58801	13.5	414.5	414.5	—	—	?	413	10.5

406	284a	DM	ES	ER	AP	DX	AN	B	D	G
—	15.8	—	—	<16.5	14.9	15.0	<16.5	13.8	<15	<16
	16.3			11	14.8	14.8	11	13.8	<15	<16.5
	<16			<16	14.9	14.9	<16.5	14.0	<15	11
	16.2			<16.5	14.8	14.9	<16.5	14.4	<16	<11
	15.3			<16	14.8	14.9	<16	14.4	<16	?
	<16			<16	15.3	14.9	<16	—	<15	<16.7
—	<16.5	<16.5	B?	<16.5	<16.5	14.8	15.8	<16	<16.5	<16.5
				—	—	—	—	—	<14.5	—
	<15.5		—	—	<15.5	?	<15.5	<15.5	B?	—
	16.1		—	<16	15.5	14.5	15.6	<16.5	B?	<16
<16	15.3	<16	<16	<16	15.1	14.2	15.3	<16.5	?	?
15.5	16.1	<16.5	<16	<16	14.5	15.0	15.0	<16	<16	<16
—	15.5	—	—	—	14.6	14.8	<15.5	<15	<16	—
—	15.3	—	—	<16.5	<16	<15.5	<15.5	15.1	B?	<15
—	<15.5	—	—	—	<15	<15	<15	15.0	?	<15
	<15			—	—	—	—	—	<15	—
	<15			<15	<15.5	<15	?	—	?	—
									B?	—
15.5	<15.5	<15.5	14.5	<15.5	14.8	<16	<16	<16	<16.5	<16
—	<15.5	—	<15	<15	14.8	15.3	15.1	14.2	<16	<15
<15	15.0	<16	<15	<15	15.0	<15	15.0	14.7	<16.5	<15.5
—	15.8	—	→	<16.5	15.0	15.0	14.7	14.6	<16.5	16.0
	16.0	—	B?	<16.5	14.9	14.9	14.8	14.7	<16.5	<16
—	15.5	<15.5	<15	<15	14.5	15.0	14.8	14.8	<15.5	<15
—	<16	?	<15	<15.5	15.3	15.0	14.9	15.0	<16	<16
—	16.1	<15	—	<16	15.8	15.1	14.7	15.0	<15	<16

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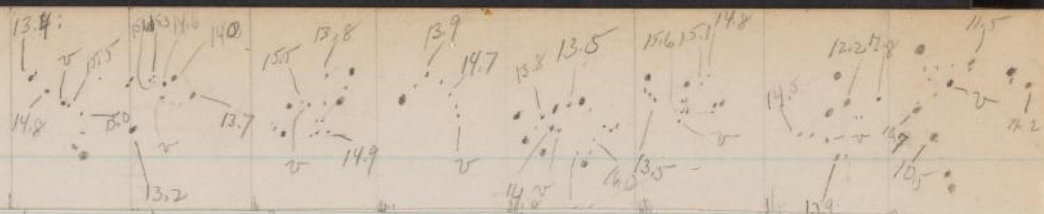


		B 56	X Y G A	104	105	106	58	870	280
24755	A 13996								
26096	14706	13.4	16.5	15.5	14.4	14.8	-	-	-
123.380	14735								
629	739								
25.363	746								
25.382									
30.	751								
31.320	757								
612	761								
33	764								
45.248	770								
581	773								
46.300	778								
578	779								
47.249	782								
582	785								
74	794	13.4	16.5	15.4	14.7	-	-	-	-
75	798	13.5	16.5	15.5	14.4	14.8	14.6	16.5	10.6
79.228	812								
284	814								
339	816								
407	818								
471	820								
533	822								
180.243	825								
303	827								
181.279	832								
459	838								
182.233	843								
469	847								

DX ₂	406	284 ₂	DM	ES	ER	AP	DX	AN	B	D	G
15.5	—	16.5	—	—	16.5	<16.5	15.2	16.7	<16.5	13.7	—
—	—	<16.5	<17	—	—	—	—	—	—	—	—
15.5	16.4	—	—	—	14.7	<16.5	<16.5	<16.7	<16.5	<16.5	—
16.0	16.5	—	—	—	14.5	"	"	<16.5	"	"	—
15.5	16.5	—	—	—	14.6	"	"	<16.3	"	"	—
15.4	16.5	—	—	—	14.5	"	"	<16.7	"	"	—
15.6	15.4	—	—	—	14.6	"	"	<16.7	"	"	—
15.5	16.5	—	—	—	14.4	"	"	<16.7	"	"	—
15.5	16.4	—	—	—	14.6	"	"	<16.5	"	"	16.0
15.5	<16.2	—	—	—	14.8	"	"	<16.7	"	"	15.3
15.6	16.0	—	—	—	14.7	"	"	<16.7	"	"	15.9
15.5	16.4	—	—	—	14.8	"	"	<16.7	"	"	15.4
15.4	16.4	—	—	—	14.8	"	"	<16.7	"	"	15.4
15.5	16.5	—	—	—	14.9	"	"	<16.7	"	16.6	15.8
15.7	16.6	—	—	—	14.8	"	"	<16.5	—	<16.5	15.7
15.5	—	16.6	14.6	15.1	<17	<17	<16.7	14.6	15.4	15.8	—
—	15.1	16.1	—	—	—	—	—	—	—	—	—
15.4	16.0	—	—	—	15.4	<17	"	16.5	14.4	15.0	15.8
15.6	16.5	—	—	—	—	—	—	16.5	—	14.5	15.7
15.6	16.5	—	—	—	—	—	—	16.5	—	—	15.7
15.5	16.0	—	—	—	—	—	—	16.5	—	—	15.7
15.4	15.3	—	—	—	—	—	—	16.5	—	—	15.9
15.5	15.7	—	—	—	—	—	—	16.5	—	—	15.9
15.6	16.5	—	—	—	15.5	"	"	16.0	14.2	14.5	15.8
15.7	16.1	—	—	—	—	"	"	16.0	14.0	14.5	15.8
15.7	15.5	—	—	—	15.4	"	16.5	16.0	14.2	14.6	15.7
15.6	16.4	—	—	—	—	—	<16.5	16.0	14.0	14.4	15.8
15.5	16.4	—	—	—	—	—	—	—	—	—	15.8
15.5	16.5	—	—	—	—	—	15.8	—	—	14.2	15.8

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		B 56	X Y C A	B 104	105	106	5 P	370	280	
26183.229	A 14852	-	-	-	-	-	-	-	-	
186	857									
87	864									
88	868									
208	887									
210	891									
13	902									
14	906									
15	912									
17	919									
18	921									
461	15341									
546	- 1539	13.4	46.5	15.5	14.8	14.4	14.8	12.0	10.7	
55	- 549	13.4	"	15.5	14.8	14.7	15.0	12.0	10.7	
57	555	13.4	"	15.0	14.7	14.8	15.1	12.0	10.6	
58	561	13.4	"	15.5	14.7	14.7	15.3	12.1	11.0	
59	567	13.4	"	15.6	14.5	14.9	15.1	12.8	10.6	
62	- 592	14.7	"	15.1	14.5	14.9	15.4	12.8	10.6	
63.233	596	13.4	15.4	15.4	14.2	14.8	15.3	12.9	10.5	
286	598	13.4	"	15.5	14.4	15.0	15.3	13.0	10.6	
349	600	13.4	-	15.5	14.6	14.9	15.4	13.2	10.6	
408	602	13.4	-	"	14.8	14.8	14.7	13.0	10.6	
476	804	13.5	-	"	14.7	15.0	14.4	13.0	10.6	
65	627	13.4	"	14.7	14.4	14.7	14.2	13.3	10.6	
66	635	13.4	-	14.8	14.3	15.0	15.1	13.3	10.6	
67	646	13.4	16.5	15.4	14.2	14.7	14.3	13.5	10.6	
68	655	13.4	"	15.5	14.1	14.7	14.5	13.6	10.6	
69	- 667	13.5	16.5	15.4	14.1	14.9	14.6	13.5	10.6	

DXa	406	284a	DM	EX	ER	AP	DX	AN	B	D	G
15.5	16.5	—	—	15.8	16.5	16.6	16.0	14.0	14.2	15.7	
15.9	15.9						16.1			15.7	
15.6	16.4						15.9		14.0	15.7	
15.5	16.5			16.0	16.5	16.6	15.7	14.8	13.9	15.6	
15.5	—			—	15.3	15.5	15.2	14.2	—	—	
15.6	16.2			16.5	15.5	15.5	15.0	14.2	12.5	15.5	
15.4	16.2			11	15.6	15.4	15.2	14.2	13.0	15.7	
15.4	15.9			15.3	15.4	15.2	14.0		12.6	15.8	
	16.3									15.8	
15.3	16.0			16.5	15.2	15.3	15.5	14.5	12.7	15.8	
15.5	15.3			11	15.0	15.3	15.5	14.5	12.7	15.6	
15.5	15.9			16.5	15.6	14.5	16.5	14.2	14.2	15.9	
15.7	15.5 16.5	<16	<15.5	<16	<16.5	15.0	16.5	16.5	<16.5	15.9	
15.6	15.6 16.4	<17	15.0	<17	<17	14.9	16.0	<17	<17	15.8	
	15.5 15.8										
	15.5 16.1										
	15.6 16.4										
15.5	15.7 16.1	<16.5	14.8	<16	<16.5	14.7	15.5	<16.5	<16.5	15.7	
	15.6 16.5										
	15.6 16.5										
	15.4 16.6										
	15.3 15.9										
	15.3 15.5										
	15.5 16.5										
	15.2 16.1										
	15.5 16.3										
	15.3 16.5										
15.5	15.6 15.9	<17	14.4	<17	<17	14.7	15.5	<16.5	<17	15.6	

corresponding A plates centered at 1800-33



DX	406	284a	DM	ES	ER	AP	DX	AN	B	D	G
	15.6	16.0	46.5	14.7	46.5	417	15.0	16.0	46.5	15.6	15.6
	15.5	16.1									
	15.2	15.9									
	15.2	16.4									
	15.1	15.4									
	15.0	16.1	46.5	15.2	46.5	46.5	14.9	16.2	46.5	15.6	15.7
	15.1	16.0									
	15.9	15.8	46.5	15.5	46.5	46.5	15.0	16.2	46.5	15.4	15.8
15.5	—	15.7	—	—	46.5	46.5	15.1	46.5	46.5	15.1	16.0
15.4	15.2	—	417	417	—	—	—	—	—	—	15.5
15.6	—	—	14.2	14.5	15.3	15.3	15.0	46.5	417	417	—
—	15.5	15.5	—	—	—	—	—	—	—	—	—
15.5	—	—	417	417	417	46.5	15.8	—	—	—	—
15.6	—	—	417	417	417	417	15.0	—	—	14.0	F
?	2	L	L	L	L	L	L	L	L	L	varies

corresponding A plates centered at 18 00 - 30

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cluster type mean
15 minute MF Plots

		B104	B105	B106	B58	284a
27590.326	MF 19245	<15	14.1	15.0	14.0	<15.5
359	247	<15	—	14.7	14.1	<16
392	249	14.4	—	14.8	14.2	<11
424	251	—	—	—	14.4	<15.5
457	253	—	—	—	14.5	16.0
489	255	—	—	—	15.1	15.8
522	257	15.0	—	Bv	15.1	15.6
554	259	<15	14.5	15.0	14.9	15.0
592.147	267	15.1	—	14.5	14.9	15.4
479	269	<15.3	—	14.7	15.0	16.0
512	271	—	—	14.6	15.0	15.9
545	273	<15	—	14.8	15.6	16.0
577	275	—	—	14.6	15.4	15.8
610	277	15.0	14.7	14.7	15.4	<16
643	279	14.6	—	14.7	15.4	<16
593.272	283	—	—	—	14.0	15.3
298	285	—	—	—	13.8	15.8
335	287	—	—	—	14.5	15.6
365	289	—	—	—	14.4	15.9
399	291	—	—	14.6	15.0	<16
465	295	—	—	14.6	15.3	<16
495	297	—	—	—	15.1	16.4
531	299	—	—	—	15.1	16.1
562	301	—	—	—	15.3	<16
596	303	—	—	14.9	15.2	16.1
627	305	—	—	—	15.0	15.9
651	307	—	—	—	<15	15.5
594.636	321	—	—	—	15.5	15.5

		B104	B105	B106	B58	284a
27 595.272	MF 19325	<15	—	—	14.3	<15.5
300	327	—	—	14.6	14.6	16.0
335	329	14.5	—	15.0	14.5	<16
363	331	14.5	BL	14.7	14.9	15.9
596.456	340	15.5	—	14.6	15.5	15.8
597 240	347	15	—	—	14.4	15.0
273	349	—	—	14.7	14.5	15.1
305	351	—	—	—	14.8	15.5
338	353	—	—	14.6	14.8	15.5
373	355	<15.3	—	14.8	14.9	15.6
405	357	—	—	—	15.4	16.1
601.241	383	—	—	14.8	14.7	15.2
273	385	—	—	—	14.8	15.0
306	387	—	—	—	<15	15.7
339	389	—	—	—	15.0	15.7
371	391	—	—	—	4.5	15.9
437	395	—	—	—	<15	<15.5
469	397	—	—	—	<15	<15.5
502	399	15.4	—	14.4	15.3	16.1
534	401	<15	—	15.0	14.3	<15.5
566	403	<15	14.5	<15	14.2	15.4
603.207	416	—	—	—	14.7	<15.3
263	419	—	—	F	<15.3	<16
312	422	<15	—	15.0	15.4	16.3
379	425	4.5	—	—	<15	<16
439	428	14.4	—	—	<15	<16
507	431	—	—	—	14.2	15.2
563	434	15.0	—	—	14.4	15.7
606.209	442	15.0	—	—	<15	<15
265	445	15.3	14.9	14.8	15.2	16.1
610.538	455	15.5	14.8	14.8	15.5	<16
618	458	<15	—	—	<15	16.1

over

		B 104	B/05	B/06	B58	284a
27293.239	MF 18419	—	—	—	—	<11.5
.263	421	14.6	Bt	14.5	<15	15.5
287	423	—	—	Bt	<15	<16
311	425	—	—	—	<15	<15.5

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for sequences see pages 124 & 148

copied

copied

copied

comp comp

		PM	386	392	BI	403	B163 ³⁶	B84	ES	362
11202	B	3842	<15	<15	<15	12.0	12.1	<15	<15	<15
204		3861	—	—	—	—	12.1	—	—	<13
221		3959	—	—	—	—	12.0	—	—	—
221		3960	—	—	—	12.0	12.3	—	—	—
510		5255	<15	<15.5	?	12.8 ^F	12.3	<15	<15	<15
529		5397	—	—	—	—	—	—	—	—
531		5407	—	—	—	—	—	—	—	—
872		5967	—	—	—	—	—	—	—	—
12603		9482	—	—	BT	—	—	—	<15	—
630		9592	<15.5	16.0	<16	12.4	11.9 ²⁰	<15	<15	—
630		9593	<16	<16.5	15.0	12.6	11.9	<15.5	<15	—
666		9855	<15	<15	<15	12.2	12.5	—	—	—
13030		11634	—	—	—	12.3	12.0	—	—	—
057		940	—	—	—	12.0	11.5	—	—	<13
327		13346	BT	<15	—	12.5	12.0	<14.5	BT	—
348		13535	<15	<15	<15	14.8	11.9	11.7	<15	?
357		749	<14.5	?	—	?	11.8	12.5	<14	—
384		14039	—	—	—	—	11.5	11.5	<15	<15
442		496	<15	15.1	—	14.0	14.3 ²⁰	12.9	15.0	<15
710		16037	—	—	—	—	12.8	12.2	—	BT
714		099	—	—	—	—	12.7	<13	—	—
716		156	<14	—	?	12.4	13.0	—	—	—
728		415	—	—	—	—	12.8	12.7	—	—
738		496	<15	15.3	15.0	BT?	12.6	11.6	<15	—
740		518	—	—	—	—	—	11.0	—	13.5
742		576	<15	—	—	13.8	12.5	11.2	—	—
826		17444	—	—	—	—	12.2	12.4	—	—
846		652	<15	<15	<15	15.0	14.3 ²⁰	12.3	15.0	<15

16.1. 154
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171

		DM	336	392	01	403	B163	B84	ES	362
14057	B19082									
057	085	14.8	14.9	<16	14.7	12.0	12.2	15.5	<15	<15
058 1	113					11.9	12.3	—	—	—
077	325	15.2	<15.5	<15.5	<15	12.3	14.0	—	—	—
084	444									
084	448	<15	<15	<15	15.0	12.2	12.2	—	—	—
094 5	576	<16	<16	<16	15.0	12.7	11.8	<15	—	—
182	20322	<16	<16	<16	13.8	12.1	12.0	<15	<15	13.5
188	20465									
190 1	490					12.1	11.9	—	—	13.0
393	21225					12.3	12.0	—	—	—
457	703				?	12.4	12.7	<15	—	—
536	919	14.8	14.9	<16	15.5	13.8	12.4	15.5	<16	15.5
750	22478	<15.5	<15.5	15.5	<15.0	12.4	12.0	?	—	—
751	510					1				
822	23059					12.3	12.0	—	—	<13.5
863	696	<15	<15	—	<15	12.5	13.0	—	—	—
867	745	<16.5	15.5	<16	<16.5	12.1	12.0	<16	15.0	<15.5
868	750	<16.5	15.5	—	<16	12.2	11.8	<16.5	15.2	<16
872	776	<16.5	15.8	15.5	<16.5	12.2	11.9	<16.5	15.0	<16.5
941	24375	<16	?	<15.5	13.8	12.7	12.0	<15.5	<15	<15.5
15110	921	<16	<16	<15.5	—	12.0	12.1	<16	15.5	<16
171	25506					11.8	12.3	—	—	—
276	26117					12.9	13.3	—	—	13.5
278	141	<15.5	<15.5	—	<15	12.9	14.0	14.5	14.5	13.3
304	388					12.4	11.9	—	—	<13.5
532	27438	15.5	<15	—	13.5	11.9	12.1	15.5	—	B15.5
586 2	930									

LMsq	LLsq	XYAA	370	ER	AP	DX	AN	B	D	AK	AL	AG
								<15	BT	<14.5	<14.5	<15.5
<14.5	15.0	—	—	<15	<15.5	14.8	<15	<15	BT	—	—	—
—	—	—	—	—	<15	14.5	<15	<15.5	13.5	<15	<15	<15.5
—	—	—	—	—	<14	—	—	—	BT	—	—	—
—	—	—	—	—	—	—	—	—	BT	<14	<15	<15
—	—	—	—	—	<15	—	—	—	BT	—	—	—
—	BT	—	—	—	<15	15.0	—	<15	BT	—	—	—
<14	<14	BT	—	BT	15.3	14.8	15.0	<15	BT	<15	<15.5	—
—	—	—	—	—	<15	15.0	14.2	15.3	BT	<15	<14.5	<14.5
<13.5	<13.5	12.5	12.7	—	—	—	—	—	?	—	—	—
—	—	—	—	—	—	—	—	—	BT	—	—	—
—	—	—	—	—	<16	?	<16	—	BT	<16	—	<16
<16	<16	<16	<16	<15.5	<15	<15	—	—	?	—	—	—
11.0	—	—	—	—	BT?	<15	—	<15	BT	—	—	—
11.0	—	—	—	—	—	—	<14	<14.5	<15	?	<15	<14.5
12.8	<13.5	—	<13.5	—	—	—	—	—	?	—	—	—
—	—	—	—	—	<15	—	—	—	BT	—	—	—
14.0	<15.5	<15	—	<16	15.2	<16	<16	BT	BT	<16	<15	BT
14.5	<16.5	<16	<16	<16	15.5	<16	—	<16	?	—	—	—
14.8	<16.5	<16.5	<16.5	<16.5	15.8	16.0	<15	—	?	15.5	<16	<15
<15.5	<15.5	<15.5	13.7	<15.5	<15	—	—	—	BT	—	—	—
15.0	<16	<16	<16.5	<16	—	<15	—	—	BT	—	—	—
11.0	—	—	—	—	<16	<16	<16	BT	?	<15.5	<15.5	<15.5
14.0	<14	<13.5	<13.5	—	—	—	—	—	—	—	—	—
14.1	<16	<16.5	15.0	BT	15.5	<15	—	—	BT	—	—	—
<13.5	<13.5	<13.5	<13.5	—	—	—	—	—	BT	—	—	—
<13	<13	—	—	—	14.0	—	—	—	BT	—	—	—
—	BT	<15	<15	—	—	—	—	—	—	—	—	—

		DM	336	392	B1	403	B163	B84	ES	362
15 661	B 78622					13.6	12.0	4.2		<135
869	29524	<15.5	<15	<15	<15	12.8	11.9	—	—	—
870	570	—	—	—	—	?	11.8	—	—	—
872	605	—	—	—	F	12.9	11.9	<15	BT	<15
897	853	—	—	—	—	12.3	11.8	—	—	—
897	857	<15	<15	—	BT	12.0	11.9	14.5	—	—
966	30 512	—	—	—	—	<13.5	11.8	—	—	—
966 1	513	?	<16	<16	BT?	13.8	11.9	15.1	<15	<15
16 016	644	—	—	—	—	dy	11.9	—	—	<135
222	31 470	—	—	—	—	—	—	—	—	—
16 228	523	—	—	—	—	F	11.9	—	—	<15
257	862	—	—	—	—	—	12.0	—	—	—
288	32032	<16	<16	<16	15.5	12.4	11.9	<16	15.5	<15
290	049	—	—	—	—	12.1	12.1	—	—	—
290	051	<16.5	<16.5	<16	15.3	12.3	11.8	<16.5	14.8	<16.5
347	491	—	—	—	—	12.2	BT	—	—	—
375	633	16.0	15.3	15.0	13.2	12.2	11.8	13.9	<16	14.5
396	650	—	—	—	BT	12.0	12.0	—	—	—
604	33 586	—	—	—	—	12.8	12.1	BT	—	12.5
615	759	<15	—	—	<15	13.5	11.9	14.0	—	12.5
625	836	—	—	—	—	<13.5	12.3	BT	—	—
626	857	<15.5	<15.5	—	<15.5	13.2	12.2	—	—	<13
943	35 781	—	—	—	—	—	—	—	—	—
948	818	—	—	—	—	—	—	—	—	—
17080	36 792	—	—	—	—	—	—	—	—	—
094 2	868	—	—	—	—	12.8	12.8	—	—	—
698	37313	<15	<15	—	13.8	12.6	12.3	<15	<15	133
727	538	—	—	—	—	11.8	12.5	—	—	—

LM _{Sp}	LL _{Sp}	XYCA	370	ER	AP	PX	AN	B	D	AK	AL	AR
13.7	4/35	<137	<13.5	—	—	—	—	—	F	—	—	—
—	—	—	—	—	4/45	4/45	4/15	15.0:	F	4/15	4/15	4/15
<15	4/15	<15	<15	—	4/6	15.5	<15.5	4/6	?	15.5	4/6	—
4/3	—	—	4/3	—	4/15	4/15	4/5	4/15	BT	4/15	4/15	15.5:
—	—	—	—	—	4/4	—	—	—	BT	—	—	—
11.0	—	—	—	—	—	—	—	—	F	—	—	—
11.0	4/15	—	—	4/15	4/5	4/5	—	—	F	—	—	?
10.5	4/3	BT	13.7	—	—	—	—	—	B	—	—	—
—	—	—	—	—	14.0	—	4/15	4/15	F	BT	4/15	15.3
4/3	4/3	4/3	12.0	—	—	4/15	4/15	—	F	—	4/15	BT
—	—	—	—	—	15.0:	4/15	4/15	4/6	med	15.5	4/15.5	15.8
4/15	15.0:	13.5	—	4/15	4/6	4/6	4/15	4/15	—	15.0:	—	—
—	—	—	—	—	4/15.5	4/15.5	4/15	?	F	4/6	4/6	4/6
16.5	14.0	13.2	14.5	4/6.5	4/6	4/6	4/6	BT	B	4/15	4/15	4/15
—	—	—	—	4/15	4/6	4/6	4/6	4/6	BT	15.5	4/6	4/6
13.2	4/15.5	4/15.5	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	4/15	4/15	4/15	4/15	F	4/4.5	4/15	4/15
4/4	13.5	4/4	4/4.5	—	—	—	—	—	B	—	—	—
—	BT	—	—	—	4/6	4/6	16.0:	4/6	med	15.0	4/6	4/6
—	—	—	—	—	4/15	4/15	4/15	4/15	F	—	4/15	4/15
—	BT	—	—	—	4/15	—	—	—	F	—	—	—
—	—	—	—	—	—	—	—	—	BT	—	—	—
—	—	—	—	—	—	—	—	—	BT	—	—	—
—	—	BT	4/3	—	4/15	BT?	4/15	B?	F	BT	4/15	4/15
12.0	4/15	4/15	14.2	—	?	2 BT	—	A	B:	—	—	—
—	—	—	—	—	4/15	14.2	4/4.5	4/15	med	—	—	4/15

	DM	336	392	B 1	403	B163	B ⁸⁴ 88	E 8	362
17 803 3	B 37968	—	—	—	13.0	12.9	<14	—	—
813	38031	—	—	—	12.3	12.6	—	—	—
18 406	40063	—	—	—	13.1	13.1	—	—	—
438	40258	—	—	—	12.4	11.9	14.4	—	13.6
821	41380	—	—	—	12.4	13.0	<15	—	<14
848	41487	—	—	—	13.0	12.6	14.0	—	<14
868	653	15.0	<15	—	13.9	12.0	13.8	13.1	—
19 203	42375	—	—	—	12.0	12.2	—	—	<14
615	43396	—	—	—	12.2	12.2	—	—	—
20 288	44538	—	—	<15	12.2	12.0	<14	—	<14
316	44720	<15	<15	—	12.9	12.2	<15	<15	13.5
336	846	—	—	—	—	—	—	—	—
338	861	—	—	—	—	—	—	—	—
339	876	—	—	—	—	—	—	—	—
356	932	—	—	—	—	—	—	—	—
362	45001	—	—	—	—	—	—	—	—
364	010	15.0	<16.5	<16	13.8	12.5	12.0	<16.5	<16.5
385	040	14.5	<15	—	14.5	12.3	12.1	<15	—
385	041	—	—	—	—	—	—	—	—
21 098	48174	—	—	—	12.5	12.1	—	—	—
099	183	—	—	—	13.8	12.4	—	—	—
21 361	50395	—	—	—	—	—	—	—	—
426	51471	—	—	—	12.0	12.8	—	—	13.8
22 190	MF 4465	—	—	15.0	14.0	13.0	<14.5	—	13.5
191	4481	—	—	—	—	12.5	—	—	13.6
193	4538	—	—	—	—	—	—	—	—
195	4590	—	—	—	—	<13	—	—	13.5
520	6286	—	—	—	11.9	12.2	—	—	—

LM Sgr	LL Sgr	XY CrA	370	ER	AP	DX	AN	B	D	AK	AL	AG
—	—	—	—	B ₁	16.5	14.2	<16	<16	19.0	<16	<16	<16
—	—	—	—	<15	15.8	14.0	<16	<16	?	15.0	<16	<16
—	—	—	—	—	<14.5	—	—	—	BT	—	—	—
12.5	<14	<14	<14	—	—	—	—	—	?	—	—	—
def	13.0	<13.5	—	—	<15	<15	—	—	BT	—	—	—
12.5	12.8	<14	—	—	15.0	45	—	—	m B	—	—	—
11.8	<13.5	—	—	—	<15	15.0	—	<15	F	—	—	—
<14	<14	—	—	—	—	—	—	—	BT	—	—	—
—	—	—	—	—	15.0	15.5	<15	<15	BT	—	—	—
<14.5	<14.5	04.5	<14	BT	15.0	15.3	BT	<15	<15	<15	<15	<14.5
<15	<15	<15	<15	BT ^{15.2}	<15	<15	—	—	F	—	—	—
—	—	—	—	?	15.0	<15.5	<16	<16	F	15.0	<16.5	<16.5
—	—	—	—	—	15.0	—	<15.5	<15.5	F	15.5	<16	<16
—	—	—	—	—	14.5	<15.5	<16	<16	F	15.8	<16.5	<16.5
—	—	—	—	—	14.5	—	—	—	F	<16	<16	<16
—	—	—	—	—	14.0	<15.5	<16	<16	m?	16.0	<16.5	<16.5
<16	<16	<15.5	—	?	14.1	def <15.0	<15	<15	F	—	—	—
out of phase 12.0	14.3	<14	<14	—	—	—	—	—	F	—	—	—
out of phase 14.0	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	BT	—	—	—
—	—	—	14.0	—	—	—	—	—	—	—	—	—
12.0	<13.5	—	<13.5	—	—	—	—	—	BT	—	—	—
13.0	23	—	—	—	14.0	<15	<15	<14.5	<15	—	<15	—
13.5	<14	<14	<14	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	<15	<15	<15	m	—	<15.5	<15
13.0	—	—	<13.5	—	—	—	—	—	F	—	—	—
—	—	—	—	—	—	—	—	—	13.5	—	—	—

		DM	336	392	B1	403	B163	B84	ES	362	LM
22524	MF 6334	—	—	—	—	—	12.1	—	—	<13	
546	6648	—	—	—	—	—	—	—	—	—	
546	6649	—	—	—	—	—	12.7	<15	—	<15	
551	6737	<15.5	<15	—	14.6	12.4	13.5	<14.5	—	<13.5	
850	7585	—	—	—	—	—	12.0	—	—	—	
854	7611	—	—	—	—	—	—	—	—	—	
905	7744	—	—	—	—	—	12.8	—	—	—	
924	7748	—	—	—	—	—	11.8	13.7	—	14.0	
13752	A 1904	—	—	—	—	—	—	—	—	—	
14069	2310	—	—	<16	14.8	12.1	12.6	<16.5	16.0	<16.5	
140	2598	—	—	—	—	12.3	12.6	—	—	<14	
140	2606	—	—	—	—	—	—	—	—	—	
156	2659	—	<16	<16	14.8	12.5	12.1	<16.5	<16.5	<17	
160	2661	<16.5	<16.5	<16	14.8	13.2	—	—	—	—	
181	2714	<15	<15	—	13.5	12.0	12.1	—	—	—	
204	2809	—	—	—	—	—	—	—	—	—	
15614	5555	—	—	—	—	—	—	—	—	—	
631	5622	—	—	—	—	—	—	—	—	—	
966	6050	<18	16.0	16.0	13.8	13.5	12.1	15.0	<18	—	
17392	7779	—	—	—	—	—	—	—	—	—	
393	7784	—	—	—	—	—	—	—	—	—	
804	8432	—	—	—	—	—	—	—	—	—	
804	8433	<15	<15	14.2	13.5	13.3	12.6	<14.5	—	<13.5	
805	8445	—	—	—	—	—	—	—	—	—	
18102	8832	—	—	—	—	12.8	12.7	—	—	—	
112	8875	14.5	<15	<15	15.5	12.2	12.0	<15	?	<15	

LM Sqr	LL Sqr	XYGA	370	ER	AP	DX	AN	B	D	AK	AL	AG
4/3	4/3	4/3	13.7	—	—	—	—	—	—	—	—	—
—	—	—	—	4/6.5	4/6.5	15.5	4/6	4/6.5	B	15.0	?	4/6
15.5	4/6	13.8	14.0	4/5	—	—	—	—	—	—	—	—
—	—	—	—	—	4/5	4/5	4/5	4/5	m	15.0	4/5	4/5
—	—	—	—	—	—	—	—	—	apB	—	—	—
—	—	—	—	—	—	—	—	—	F	—	—	—
4/5	14.0	4/4.5	4/4.5	—	—	—	—	—	14.0	—	—	—
—	—	—	—	4/5	—	4/6	4/6	4/6.5	—	—	—	—
—	—	—	—	4/5	—	4/6	4/6	4/6.5	m	—	4/6.5	—
4/6.5	14.0	4/4.5	4/6.5	4/6.5	4/6	15.2	4/5	4/5	13.5	—	—	—
4/4	4/4	4/4	4/4	—	—	—	—	—	—	—	—	—
—	—	—	—	—	14.3	14.9	4/6.5	15.0	4/5	4/6.5	14.4	4/6.5
4/7	4/6.5	4/6.5	15.2	4/6.5	14.0	14.8	4/5	—	?	—	—	—
—	—	—	—	—	14.2	15.0	4/5	4/5	—	—	—	—
—	—	—	—	—	—	—	—	—	F	—	—	—
—	—	—	—	—	4/5.5	14.8	14.5	—	—	4/6	—	4/6
—	—	—	—	4/6	—	16.0	4/6	4/6.5	4/6.5	—	4/6.5	—
—	—	—	—	4/6	—	16.0	4/6.5	4/7	4/7	—	4/7	—
—	—	—	—	4/7	15.5	16.5	4/7	4/7	14.3	4/7	—	—
—	—	—	—	—	—	—	14.5	4/5	13.8	4/5.5	15.5	4/5.5
—	—	—	—	—	—	—	14.5	4/5	13.5	4/5.5	15.0	4/5.5
—	—	4/4	4/5	—	—	—	—	—	—	—	—	—
4/3.5	4/3.5	—	—	4/5.5	4/6	14.2	4/5	4/5.5	13.3	4/5.5	4/5.5	4/5
—	—	4/4	15.0	—	—	—	—	—	—	—	—	—
4/5	—	4/4	15.0	—	—	—	—	—	4/4	—	—	—
13.3	4/5	12.0	—	—	—	—	—	—	—	—	—	—

		DM	836	892	B 1	403	B 163	B 84	ES	362
18 174	A 9025	<17	<17	<16	14.1	12.0	14.1	13.0	<17	12.2
183	9057	—	—	—	—	—	—	—	—	—
184	9061	—	—	—	—	—	—	—	—	—
466	9338	<15	<15	<15	13.5	12.2	11.9	<14.5	—	13.5
828	10112	—	—	—	—	12.3	—	—	—	—
831	10126	<15	—	—	<15	12.3	—	—	—	—

LM Sp	LL Sp	XY Cr A	370	ER	AP	DX	AN	B	D	AK	AL	AG
16.0	15.2	14.8	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	<16	15.8	13.0	<17	<17	<17
—	—	<15	15.3	—	—	—	—	—	—	—	—	—
10.0	41	—	—	14.5	<16	15.5	<15	14.4	<15	—	—	—
—	—	—	—	—	<16	15.5	<16	<16	12.5	<16	<15	<16
—	—	—	—	—	<16.5	15.5	<16.5	<16.5	12.5	15.0	<16.5	16.0

W.J.L.

		AR	AL	AG
23911	MF 8537	16.0	15.5	<16.5
965	8637	<16.5	<16.5	<16.5
992	8724	15.8	<16.5	16.0
24026	8785	15.8	"	15.5
056	8842	15.5	"	16.3
911	9816	15.5	<16	<16
626	10141	16.0	<16.5	16.8
649	240	16.0	<11	15.5
656	284	16.0	<16	15.9
681	365	16.0	<16.5	16.2
711	522	15.8	<11	<16.5
728.100	574	16.2	15.8	"
762	579	16.0	<16	"
755	A 13996	15.2	15.3	16.0
25355	MF 11583	16.0	<16.5	<16.5
383	11662	15.3	<16	<16
390	243	15.0	<16	15.2
414	844	<15	<15	15.0
421	919	<15.5	15.5	15.5
437	773	16.0	<15	15.8
445 445	13120	15.5	<16.5	15.4
749	134	16.0	"	15.4
794	287	16.0	"	<16.5
799	327	15.8	"	<16
832	398	15.8	?	<15.5
851	463	14.9	15.6	<16
862	502	16.0	15.5	15.2
26067	14090	16.2	?	16.0
090	150	15.2	<16	<16

M. J. 1

AN AL AG

26/05	MF 14259	14.0	15.5	4/6.5
117	277	15.5	<16	<16.5
125	A 14746	14.7	<16.5	11
133	A 764	15.0	11	11
145	A 770	14.7	11	11
147	A 785	14.7	11	11
155	MF 14488	15.0	<16.5	<16.5
161	MF 548	16.0	11	16.2
174	A 14794	14.8	<17	16.1
179. 230	812	15.2	11	15.6
471	820	15.2	11	15.6
188	868	15.0	11	15.4
202	MF 14732	15.4	<16.5	15.4
208	A 14887	14.7	<17	15.4
218	A 14921	14.8	11	15.6
239	MF 14952	15.5	<16.5	<16.5
461	A 15341	15.0	<16.5	<16.5
475	MF 15453	16.2	16.2	16.0
489	540	16.3	15.6	15.6
504	589	15.5	15.3	15.4
546	A 15538	15.2	<16	<16
555	548	14.9	<17	<17
563. 208	598	14.8	<16.5	<16.5
570	605	14.8	11	11
569	666	14.8	11	11
587	709	15.2	11	11
595	751	15.0	11	11
602	759	14.9	11	11
606	774	14.9	11	11
838	MF 16767	<15	<15	16.0
871	931	<16	<16	16.0

184

		AK	AL	AG
26997	MF 17055	15.6	<16.5	<16.5
917	158	<15.5	<15.5	<16
	A 16140	—	—	—
	237	—	—	—
27140	MF 17812	<15.5	15.3	<15.5
	A 16524	—	—	—
293	MF 18421	<15.5	<15.5	15.8
299	544	<15.5	<15.5	15.7
306	670	16.0	<16	<15.5
	786	—	—	—
355	787	15.1	15.6	<16.5
590	19247	<15	15.2	15.5
594	321	<16.5 ^{16.6}	15.5	15.3
596	340	16.0	15.0	15.3
601	403	<15	<15	15.4
610	455	15.6	16.0	<16
618	B 58801	15.0	<16.5	16.3
	A 17110	—	—	—
	126	—	—	—

? L L

		11.7 12.2 12.7	11.7 12.7 13.1 14.3 14.5	13.4 14.8 15.0	10.5 10.7 11.2 11.5	11.4 11.9 12.0 13.6 14.9 15.8 17.7	12.0 12.6 13.4 14.8 15.5 16.0	11.2 11.7 12.1 12.4 12.9
17-45		403	B163	B56	280	WXGA	238	325
23900.874	AX474	—	—	—	10.7	<13	<12.0	Bt
09.857	504	—	Bt	—	10.6	<13	12.6	11.2
59.585	608	—	—	10.7	10.7	<13	12.4	11.3
64.699	640	Bt	—	10	10.5	<13	12.3	11.2
74.614	688	12.2	Bt	—	10.55	<13	12.6	11.4
88.632	712	Bt	Bt	—	10.7	<13	12.6	11.3
24019.532	762	—	—	—	10.6	"	12.4	11.4
269.765	1028	—	Bt	—	10.6	"	13.4	11.7
290.729	1067	12.2	12.0	—	10.5	"	13.0	11.3
299.654	1098	12.3	12.0	—	10.8	"	13.4	11.3
313.651	1137	—	<12.5	—	10.87	<13	13.4	11.6
25.680	1179	—	—	—	10.65	13.4	13.3	11.5
56.539	1244	12.0	Bt	—	10.7	13.0	<13.0	11.2
74.570	1274	—	—	—	10.6	13.0	<13.0	11.3
402.515	1307	12.4	12.0	—	10.6	12.7	<13.8	11.3
626.743	1547	—	Bt	—	10.6	12.8	<13.0	11.7
46.708	1617	12.3	12.2	Bt	10.5	12.7	<14.0	11.3
54.692	1649	12.3	11.7	Bt	10.6	12.9	<14.5	11.4
69.690	1671	—	F?	Bt	10.5	12.7	<14.0	11.4
78.688	1690	F	<13	13.7	10.5	12.5	<14.0	11.5
98.695	1727	F	11.9	Bt	10.6	12.7	<14.5	11.3
707.648	1761	12.4	11.7	13.4	10.6	11.9	<15.0	11.45
11.678	1775	—	12.0	Bt	10.5	12.3	<14.5	11.3
39.576	1836	Bt	—	—	10.6	12.3	<14.0	11.6
59.527	1862	F	12.0	—	10.5	11.9	<14.0	11.4
67.512	1890	12.1	11.7	Bt	10.6	12.2	<14.5	11.6
25393.557	2472	—	—	—	10.4	12.5	—	12.2 12.1
412.477	2505	12.2	12.0	Bt	11.2	12.3	12.5	12.0 12.0

17-45	403	B163	B56	280	WXGA	238	325	
25419.344	AX 2545	—	B1	B1	10.6	12.2	12.2	11.9
42.349	2612	—	B1	B1	10.6	12.1	12.3	11.7
49.349	2672	F1	B1	B1	10.6	11.9	12.2	11.8
69.291	2737	12.3	11.8	B1	10.6	11.5	11.9	11.8
77.248	2776	12.0	B1	B1	11.3	11.8	12.2	11.7
79.248	2783	—	B1	B1	10.6	11.8	12.1	11.7
507.241	2933	—	—	—	10.6	12.0	12.1	11.6
18-30								see C.D.B. 28a
23905.821	AX 484	13.0	11.7	13.3	10.5	13.5	12.2	11.3
19.791	535	12.7	12.0	B1	10.6	13.6	12.7	11.4
60.667	613	—	12.7	B1	10.5	13.6	12.2	11.4
65.699	645	—	13.0	13.4	11.0	13.5	B1	11.5
69.700	664	12.1	13.2	13.4	10.6	13.5	12.2	11.3
93.636	725	—	12.4	13.4	10.6	13.5	12.4	11.3
14020.573	765	—	B1	—	10.5	13.4	12.4	11.3
23.579	770	12.7	12.0	13.4	10.6	13.5	12.5	11.3
33.573	793	13.3	12.1	B1	10.7	13.4	12.5	11.3
270.845	1032	11.9	11.7	13.6	10.7	13.8	13.3	11.4
85.762	1049	12.1	12.0	B1	10.4	13.6	13.3	11.4
300.795	1106	12.0	11.8	13.4	10.75	13.4	13.4	11.4
17.710	1146	12.0	13.5	13.5	10.6	13.3	13.4	11.2
25.745	1180	11.9	13.5	13.4	10.8	13.4	13.4	11.3
48.683	1220	12.1	11.9	13.5	10.75	12.7	13.8	11.4
78.575	1284	12.2	12.3	13.4	10.6	11.7	13.4	11.5
404.575	1316	12.1	12.0	13.5	10.65	11.9	13.4	11.4
32.512	1360	12.0	12.1	13.4	10.55	12.2	13.5	11.3
623.861	1575	12.8	11.7	13.4	10.5	12.2	13.5	11.4
48.766	1625	12.0	12.0	13.4	11.15	12.2	13.5	11.2
54.756	1650	11.9	12.0	13.4	10.5	12.4	13.5	11.1

18-30		403	B 163	B 56	280	WXGA	238	325	ms 28a
24681.743	AX 1699	12.3	13.0	13.9	10.5	12.1	^{14.0} 11.5	11.4	12.7
703.690	1743	12.3	12.0	13.5	11.1	11.7	^{15.5} 11.5	11.3	12.9
706.	1754	12.3	12.0	13.5	10.5	12.1	^{14.5} 11.5	11.3	12.8
	1756	—	12.0	—	10.5	12.0	^{13.5} 11.5	11.7	12.8
706.708	1757	12.6	11.9	13.4	10.55	12.5	^{14.0} 11.5	11.4	13.0
712	1781	12.0	12.0	13.5	10.5	12.7	^{14.5} 11.5	11.5	13.0
727.644	1805	12.7	11.9	13.4	10.6	12.5	^{14.0} 11.5	11.4	13.6
31.636	1817	12.4	12.0	13.7	10.6	11.9	^{14.5} 11.5	11.2	13.4
54.509	1853	12.4	12.0	13.5	10.7	11.9	^{14.0} 11.5	11.4	13.5
87.553	1919	12.7	11.7	13.4	10.6	11.8	^{14.5} 11.5	11.4	13.5
94.524	1941	12.2	12.1	13.4	10.8	11.8	^{14.0} 11.5	11.5	13.5
25154.249	2015	13.0	12.2	13.4	10.5	12.8	^{12.6} 12.1	12.3	13.0
355.598	2265	12.0	11.9	13.5	10.6	12.2	^{12.5} 12.1	12.4	13.2
86.477	2423	12.2	13.0	13.4	10.6	11.8	^{12.4} 12.0	12.2	12.9
89.604	2449	12.2	13.0	13.5	10.5	12.1	^{12.2} 12.2	12.2	13.0
410.465	2494	12.5	12.0	13.5	10.5	12.1	^{11.9} 12.1	11.7	12.8
22.224	2560	12.5	11.9	—	10.8	11.8	^{11.9-12.0} 12.0	12.0	13.0
41.346	2605	12.5	12.2	13.4	10.7	11.7	^{11.7-6} 12.3	11.8	12.7
48.350	2665	13.1	12.5	13.4	10.5	11.7	^{11.7} 12.3	11.7	12.6
79.319	2784	11.9	11.7	13.4	10.5	11.7	^{11.6} 12.3	11.7	12.7
	3101	—	12.5	13.5	10.9	11.0	11.5	11.4	12.0
	3112	—	12.0	—	11.0	11.4	11.5	11.3	12.0

18-30								230	
25705.570	RB 228	12.4	12.1	—	10.6	12.0	11.9	11.4	12.4
06.565	234	12.0	12.2	13.4	10.6	11.9	12.3	11.7	12.2
10.616	255	12.5	12.0	13.4	10.6	11.7	12.3	11.3	13.4
17.619	291	13.2	12.2	13.4	10.6	11.8	12.3	11.3	14.5
71.496	374	11.8	12.6	13.4	10.6	12.0	12.3	11.5	13.6
73.468	399	12.3	—	—	10.5	12.2	12.2	11.4	—

	18-30		403	B 163	B 56	280	WXGA	238	325	230	28a
2.7	2582.399	RB 418	12.1	12.0	13.3	10.5	11.6	12.3	11.6	13.4	4.5
2.9	99.412	438	12.1	12.0	13.3	10.5	11.5	12.3	11.6	13.3	15.0
2.8	847.259	512	12.1	12.1	—	10.5	11.4	12.4	11.4	meel	13.4
2.0	53.319	526	12.4	11.8	13.2	10.5	11.4	12.3	11.2	Fl 414	13.3
3.0	64.308	548	12.3	11.9	13.4	10.5	11.6	12.3	11.4	13.8	13.2
3.0	81.261	559	13.0	13.5	134	10.5	11.7	12.4	11.6	13.5	13.5
3.6	90.250	590	13.0	12.4	13.3	10.6	11.7	12.3	11.4	—	13.5
3.4	26067.561	886	12.8	11.7	134	10.6	11.5	12.2	11.4	BT	13.5
3.5	90.619	922	12.5	13.0	134	10.6	11.5	12.3	11.3	—	13.7
3.6	97.495	962	12.4	13.8	134	10.55	11.5	12.4	11.5	13.8	14.0
3.6	104.520	975	12.2	12.1	134	10.6	11.6	12.4	11.3	14.7	13.8
3.0	22.502	1007	12.2	11.9	13.7	10.6	11.5	12.2	11.4	Fl	13.8
3.2	31.469	1029	12.0	12.0	13.4	10.7	11.4	12.3	11.4	14.5	13.7
2.9	53.478	1062	12.2	12.5	134	10.6	11.4	12.4	11.5	13.3	13.8
3.0	74.487	1117	12.1	12.5	134	10.5	11.5	12.3	11.3	—	12.5
2.8	82.284	1161	12.0	11.8	13.4	10.7	11.7	12.3	11.5	Fl 414	13.2
3.0	88.353	1190	11.9	12.0	134	10.5	11.3	12.4	11.6	13.4	13.0
2.7	208.312	1218	12.0	12.1	13.4	10.65	11.5	12.3	11.4	13.3	13.3
2.6	32.237	1274	13.1	12.8	134	10.6	11.8	12.4	11.4	13.6-7	14.0
2.7	43.243	1309	13.0	12.6	—	10.65	11.8	12.3	11.5	—	13.2
2.0	452.615	1597	12.0	13.3	134	10.5	11.4	12.2	11.6	13.2	14.5
	59.561	1639	12.7	12.0	—	10.6	11.5	12.2	11.5	—	—
	61.549	1660	12.3	11.9	13.5	10.6	11.8	12.3	11.45	13.3	13.9
2.4	502.468	1835	12.2	12.0	13.4	10.5	11.9	12.2	11.3	14.8	15.5
2	08.492	1870	12.2	12.1	134	10.5	12.0	12.2	11.4	15	15
3.4	12.424	1888	12.3	12.6	13.7	10.6	12.0	12.2	11.4	14.5	15
3.5	14.571	1890	12.1	12.7	13.4	10.5	12.2	12.2	11.7	15.0	15
1.4	61.291	1984	12.2	11.9	13.3	10.65	11.5	12.3	11.6	13.6	13.5
	67.356	2020	12.5	12.0	13.5	10.6	11.7	12.4	11.5	13.7	15.1

seg X
12.7

18-30		403	B163	B56	280	WXGA	288	325	403a	230	280
266	33.229	RB 2247			10.5	11.5	—	11.1		14.5	
13.4	801.624	2554	12.6	12.9	13.6	10.65	11.7	12.2	11.4	14.4	14.4
12.5	27.577	2681	13.0	11.5	13.5	10.5	12.2	12.0	11.3	12.5	14.4
12.5	69.529	2839	12.1	12.6	13.6	10.6	13.6	12.4	11.2	13.7	—
12.3	72.392	2869	—	12.4	—	10.6	13.5	12.0	11.8	12.5	14.4
	923.414	3277	12.3	12.0	—	10.65	13.7	12.3	11.4	14.4	—
13.7	49.232	3366	11.9	12.8	13.3	10.5	14.5	12.3	11.5	13.5	14.4
11.4	27226.483	4208	12.0	12.0	13.3	10.6	14.4	12.4	11.4	13.2	12.9
12.7	252.406	4299	12.1	11.8	—	10.5	13.5	12.3	11.7	—	12.2
13.1	299.365	4524	12.0	12.1	13.4	11.3	11.7	12.7	11.7	—	12.2
11.9	545.608	5014	12.1	12.0	13.4	10.5	13.5	12.4	11.5	13.8	12.2
12.0	551.563	5046	12.3	11.8	13.3	10.5	14.4	12.3	11.5	13.3	12.2
12.0	590	5238	13.0	12.8	13.4	10.6	14.4	12.5	11.5	—	12.2
12.3	602	5317	12.2	12.7	13.4	10.5	13.5	12.2	11.4	14.4	12.2
12.3	606	5336	12.1	11.7	13.4	10.55	13.5	12.2	11.4	14.4	12.2
12.2	610	5343	12.2	11.6	13.4	10.55	13.5	12.3	11.4	12.2	—
12.4	660.289	5540	12.7	12.1	13.4	10.5	13.5	12.3	11.3	12.5	13.6
12.3	714	5696	11.9	11.8	13.4	10.5	13.5	12.4	11.5	12.5	13.6
12.3	18-45									14.4	12.2
26	469.525	RB 1680	12.2	12.2	13.4	10.6	11.4	12.3	11.7	—	12.2
4		1725	12.0	11.4	13.4	10.6	11.3	12.6	11.6	12.3	—
486	476	1766	11.8	12.0	13.3	10.5	11.3	12.4	11.3	12.2	—
489	433	1780	12.0	—	—	10.5	11.5	12.3	11.3	12.2	—
546	330	1941	—	12.1	—	10.6	11.3	—	—	—	—
606	286	2153	—	12.1	—	10.6	11.3	—	11.5	—	—
835	544	2733	—	12.1	—	10.6	11.3	—	11.5	—	—
843	551	2764	12.1	12.5	13.4	10.6	12.6	12.3	11.3	13.8	—
896	461	3068	12.6	12.0	13.4	10.5	12.8	12.2	11.4	14.7	—
911	588	3206	—	12.6	—	10.6	13.0	12.3	11.2	—	—
911	432	3208	12.0	13.4	10.6	13.5	12.3	11.4	—	—	—
917	350	3252	12.5	12.1	13.5	10.9	14.5	12.2	11.4	13.9	—

230	18-45	403	B 163	B56	280	WXGA	238	325	230
4	26960.281: RB 3415	-	-	-	BT	-	-	-	
44	27156.624	3970	12.1	12.1	13.4	10.5	<15.5	12.4	11.3 12.7 13.7
28	196.556	4118	12.2	12.3	13.5	10.55	<15	12.3	11.3 13.2 14.0
-	219.472	4188	BT	11.7	-	10.55	<13.5	BT	11.4 -
5	331.239	4620	11.9	12.2	-	10.6	<14.5	12.5	11.5 13.2
4	564.	5150	12.5	11.9	13.6	10.6	<15	12.2	11.5 BT 13.2
5	583.	5211	<12.5	12.0	-	10.6	<13.5	12.3	11.6 -
2	622.456	5393	11.9	11.6	13.5	10.6	<14	12.3	11.45 FT
-	32.389	5449	12.1	12.0	13.4	10.6	<15.5	12.3	11.4 13.6
-	86.299	5619	12.1	11.8	13.4	10.65	<15	12.3	11.5 BT
8	88.299	5621	12.1	11.5	13.5	10.6	<15	12.3	11.45 BT?
3	19-45								
4	23918.867	AX 528				10.5			
-	60.710	614				10.5			
36	61.707	622				10.4			
28	67.698	652				10.5			
-	74.679	689				10.5		BT	
-	91.701	713				11.1		BT	
-	24019.597	763				10.5		BT	
-	035.600	806				10.6		BT	
-	76.	865				10.5		BT	
-	290.810	1088				10.6		12.2	
8	92.773	1072				11.1		<13.	
-	300.861	1107				10.6		12.7	
-	320.751	1164				10.5		12.0	
-		1196				10.6		12.0	
-	359.631	1250				10.5		<12	
-	74.634	1275				10.85		<14	

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19-45		280	238
24387.577	AX 1296	10.6	< 13
402.579	1308	10.7	< 14
40.514	1373	10.6	—
626.814	1578	10.5	< 14
51.829	1640	11.0	< 14
56.827	1657	10.5	< 14
⁸³ 837 744	1706	10.6	< 14
700.694	1735	10.6	—
13.766	1792	10.5	< 14.5
39.639	1837	10.6	< 11
67.575	1891	10.5	< 11
814.521	1969	10.65	—
25383.610	2386	10.5	12.2
412.540	2506	11.1	—
19.472	2547	10.4	—
42.495	2614	10.5	—
49.413	2673	10.55	—
69.356	2738	10.6	—
77.312	2777	11.1	—
508.239	2937	10.5	—
531.256	3000	10.5	—

h m s		sec	
17 21-32.5		238	(238)
23909	MF8827	12.3	12.4
988	8715	12.4	12.4-5
24024	8772	12.3	12.4-5
285	9104	13.5	13.5
287	9121	13.6	13.6
289	9134	13.2	13.2
292	9160	13.8	13.7
296	9199	14.0	14.5-14.7
298 ⁷	9214	13.6	omit from image
298	9231	13.7	13.5
299	9252	13.4	13.2-3
300	9271	13.6	13.6
301	9289	13.4	13.6
319	9381	13.7	13.6
321	9409	13.6	13.5
322	9411	13.7	13.5
324	9426	13.6	13.6-7
325	9444	13.7	13.5
326	9461	13.6	13.6
327	9477	13.6	13.6
342	9520	14.4	14.4
343	9529	14.5	14.4-5
343	9530	14.5	14.4-5
343	9531	14.1	14.5
343	9532	14.3	14.6
24700	10449	15.9	15.9
705	481	15.8	15.9-16.0
712	533	15.8	16.1
732	607	15.5	15.5-6
755	672	15.4	15.6

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238

325

W X G A

1721-3215		238	325	W X G A (238)
24759	MF 10684	15.3		15.3
772	10831	15.1		15.1
25393	11754	Bt		312 ^{near}
498	12304	12.2		12.7
750	13138	Bt		12.7
833	410	12.3		12.4

12-30

14862	AM 75	12.2	11.45	<13
67	33	Bt	11.3	<13
904	137	Z12	11.7	<12.5
15148	461	Bt	11.7 ^{11.6}	<12
234	577	Bt	11.7 ^{11.9}	13.0
526	798	—	Bt	—
527	802	—	<12.2	12.5
532	808	12.3	12.5	<13
33	817	12.5	12.5	13.0
75	907	—	<12	—
632	1028	12.4	11.7	12.8
34	1043	12.3	11.5	<13
872	1236	12.2	11.5	11.7
85	1252	Bt	11.5	12.3
97	1278	12.4	11.4	13.8
933	1414	—	11.4	11.7
34	1422	12.3	11.4	12.3
38	1428	12.4	11.4	12.1
40	37	12.7	11.5	11.9
60	87	12.2	11.4	11.5
16006	1528	12.2	11.9	12.5

hucob

18-30		238	325	WVAA	B28a
16010	AM 1543	—	11.3	11.4	
623	1529	—	11.5	11.8	
241	1917	12.4	11.4	12.2	
253	1952	12.3	11.5	12.3	
254	1960	—	11.4	11.7	
297	2025	12.4	11.45	11.7	
308	2104	BT	11.4	12.2	
11	2129	12.6	11.6	12.2	
19	2147	12.4	11.3	11.7	
59	2244	C12	11.4	C12	
61	2261	12.2	11.4	13.0	
76	2280	12.2	11.45	12.9	
593	2372	BT	11.4	C12.5	
606	2618	12.3	11.4	C13.5	
08	2639	12.7	11.5	C13	
36	2713	12.2	11.4	C14	
46	2746	12.3	11.45	C14.5	
50	2752	12.3	11.3	C13.5	
63	2797	BT	11.5	C13	
73	2854	BT	11.8	C12	
97	2916	12.3	11.3	C13	
711	39	BT	11.3	C12.5	
26	3002	BT	11.7	C13	
922	392	12.3	11.7	C13.5	
43	448	12.2	11.5	C13	
68	496	12.3	11.4	C13.5	
79	537	12.3	11.4	C14	
14004	597	12.7	11.5	C14	C13.0
9	625	12.4	dy	C14	C13.5
19	655	12.3	11.4	C14.5	C13.4

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c.d.B

238

18-30		238	325	WAGA	238	8282	
17032	AM 3689	12.4	11.5	<13		<13.3	
76	802	12.8	11.5	<13		<13.0	
105	803	12.3	11.4	<12.5		<13.7	
335	4205	12.3	11.6	13.3		<13.0	
60	269	12.3	11.2	12.2		273.0?	
76	311	12.4	11.6	12.4		<12.4	
84	339	12.4	11.4	12.6		<12.0	
94	365	—	11.3	12.4		<12.4	
403	388	12.3	11.5	12.5		<12.6	
47	527	12.3	11.5	12.3		<12.5	
50	539	—	11.5	12.4		<13.0	
65	562	12.4	11.4	12.0		<13.2	
95	620	12.3	11.4	12.1		<13.6	
747	931	12.8	11.5	11.7	12.6 ^{adv}	<12.8	
703	804	12.8	11.3	11.9	13.3	<13.4	
58	954	12.5	11.4	11.4	13.0		
74	5013	12.8	11.6	11.1	12.8-9	<13.8	
87	024	13.0	11.4	11.7	13.2		
813	090	<13.4	11.3	11.2	<13.2	<13.0	
820	114	<13.5	11.6	11.7	<13.6	<13.0	<13.6
18027	340	<12.5	11.4	11.3	<12.5	<13.0	<12.5
042	390	<12	11.6	11.2	"	<12.0	<12.5
069	444	<12.8	11.3	11.2	<13	<12.4	<13.0
111	576	<13	11.5	11.2	<12.8	<13.0	<13.0
130	640	13.5	11.4	11.2	<13.5	<13.6	<13.4
148	683	<13.5	11.6	11.4	<14	<13.4	<13.6
156	712	<13	11.4	11.7	<14	<13.5	<13.5
171	752	<12.5	11.4	12.0	<13	<13.0	
183	778	<12.5	11.5	—	—	<12.5	
199	820	13.5	11.4	11.7	13.4	<13.4	13.4

		238	325	WYGA	B28a	238
18209	AM 5854	13.3	11.6	11.2	13.4 ^{dy}	13.4
395	6011	12.5	11.4	12.1	12.5	12.5
398	AK 233	-	11.4	11.9	12.5	12.5
427	AK 282	-	11.4	11.9	12.5	12.5
428	288	13.1	11.4	12.3	13.4	13.0?
453	AM 6170	-	11.5	11.5	12.5	12.5
438	114	12.2	11.4	11.5		12.5-6
472	228	-	11.5	12.1	12.0	
499	338	12.4	11.5	11.4	13.4	12.7
500	343	12.4	11.5	11.9	13.0	12.7
01	347	-	11.5	12.2		
06	374	12.6	11.5	12.0	13.0	12.6
29	AK 435	12.4	11.3	11.9	13.8	12.6
31	AM 6454	-	11.7	12.0	12.0	12.0
65	592	12.3	11.3	11.9	13.4	12.2
71	613	-	11.5	11.4	13.5	12.5
576	AK 508	-	11.5	12.5	13.0	12.5
820	AM 6946	-	11.5	12.5	13.0	12.5
21	952	12.5	11.7	12.5	12.5	12.5
48	7033	12.2	11.4	12.2	12.5	12.5
55	063	12.2	11.4	12.5	13.4	12.5
84	163	-	11.6	12.3	12.8	12.5
92	195	-	11.4	12.2	12.0	12.0
19153	7402	-	11.5	12.5	12.0	12.0
19204	457	-	11.5	12.5	12.0	12.0
204	458	-	11.7	12.5	12.0	12.0
233	549	-	11.6	13.0	12.0	12.0
264	676	-	11.5	12.2	12.0	12.0
300	792	-	11.4	12.0	12.0	12.0
311	841	13.1	11.0	12.2	12.0	12.0
561	8301	-	11.4	12.3	12.5	12.5
62	307	-	11.5	12.3	12.0	12.0
72	369	-	11.4	12.3	12.0	12.0

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	18-30	238	325	WX	B 28a
19588	Am 8390	12.3	11.4	12.18	<12.5
93	8423	—	11.4	<12	<12.5
603	8485	—	11.4	11.78	
04	492	12.1	11.4	13.0	<12.6
17	522	12.3	11.4	12.3	<13.0
45	539	—	11.4	<12	<12.5
50	598	BT	11.71	<13	
57	624	—	11.5	<12	<12.0
895	883	—	11.45	<12	
98	903	BT	11.3	<12	
911	937	—	11.3	<12.5	
12	944	BT	11.3	<13	<12.6
22	999	—	11.4	<13	<12.5
31	9068	BT	11.4	<13	<12.5
42	090	BT	11.4	<13	<12.0
47	131	12.3	11.3	<12.5	<13.5
50	146	—	11.4	<13	
59	197	12.3	11.5	<13	<12.5
61	203	12.4	11.4	<13	<12.3
73	237	BT	11.5	—	
77	267	12.2	11.4	def	<12.5
85	304	12.4	11.4	<12	<12.5
20012	336	12.4	11.4	<13	def
027	455	—	11.4	<12	<12.4
20297	9860	<12.7	11.7	<12.5	<12.8
306	889	—	<12.20	12.51	<12.5
07	891	—	11.5	BT	
28	937	—	<12	<12	<12.5
29	943	BT	<12.1	12.61	
30	947	—	<12	<12	<12.5
37	977	—	<11.7	<11.8	

18-30		238	325	W X	B 286
20338	AM9983	—	4120 412	412	4120
54	10038	—	4120 411.7	—	
72	93	Bt	412.3 412.4	413	
84	98	—	412.5 411.7	—	
94	146	Bt	412.3 412.4	12.7	413.0
414	180	12.2	412.0 412	412	412.5
626	570	—	11.45	11.4	413.0
681	741	—	Bt	—	
688	764	12.2	11.3	11.5	412.5
691	788	12.4	11.4	12.0	412.0
695	822	—	11.3	11.8	412.0
708	902	12.4	11.3	11.9	413.6
47	11084	12.2	11.5	12.0	412.5
69	276	12.2	11.5	12.2	413.4
993	689	12.0	11.4	11.0	413.4
21006	775	—	11.4	11.7	413.5
21007	785	—	11.5	—	413.0
009	805	Bt	11.5	11.4	
011	829	—	11.4	11.6	412.6
048	12127	Bt	11.5	11.5	412.5
062	208	12.3	11.3	12.2	413.4
063	216	12.4	11.6	12.1	413
066	235	12.0	11.45	11.9	413.4
137	535	—	11.4	412	
364	13141	—	11.4	412	412.5
424	400	—	Bt	—	
427	417	—	11.5	11.8	413.4
437	440	12.2	11.5	11.8	413.0
788	14154	—	11.4	11.0	412.5
806	244	—	11.5	Bt	412.5

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18-30

238

325

WXGA 828a

22083	AM	14682	BT	11.4	11.6	
225		15021	-	11.4	11.7	
5/6		294	-	11.7	<12.5	<12.5
580		486	-	11.2	<13	
23178		745	12.4	11.3	<14	
181		767	12.3	11.3	<13.5	<12.8
194		795	12.4	11.3	<14	<13.0
206		826	12.4	11.5	<14	<13.5
09		842	12.1	11.4	<13.5	<13.9
222		869	12.4	11.4	<13.5	<13.5
35		909	12.4	11.4	13.4	
247		931	12.3	11.8	<13	<13.5
4P		934	12.3	11.5	<14	
53		959	BT	BT	-	
65		990	12.3	11.4	<13.5	<13.0
67		996	12.2	11.4	<14	<13.6
75		16014	12.2	11.5	<13.5	<12.5
76		015	12.3	11.4	<13	
77		017	-	11.2	-	
77		018	-	11.3	<12	
306		059	BT	11.3	<12.5	<12.5
11		068	12.0	11.3	<13	<12.5
46		120	12.0	11.2	<13.5	<13.0
535		230	12.2	11.4	<13	<13.4
61		262	-	BT	12.0	
76		296	12.2	11.4	<14.5	<13.5
639		351	12.2	11.3	14.1	<14.0
62		382	12.4	11.4	14.5	<13.5
64		386	12.3	11.4	<14.5	436
27923		756	12.4	11.45	12.9	<14.0
926		767	12.2	11.4	13.2	

18-45		238 def	325	WX	238
16281	AM 2037	12.8	11.4	11.3	
17728	4886	12.8	11.45	11.6	13.1
18115	5593	—	11.4	11.71	
19924	9012	12.3	11.4	<13	
20325	9929	BT	<12.1	?	
356	10043	—	<12	—	
651	605	—	11.4	BT?	
53	624	—	11.4	12.1	
55	640	—	11.3	11.7	
64	684	—	11.4	11.71	
68	710	—	11.5	11.2	
69	717	—	11.6	11.4	
723	924	—	11.5	12.0	
23	925	—	11.5	12.0	
24	993	—	11.5	11.9	
39	11073	—	11.6	12.2	
41	078	—	11.5	<12	
75	305	—	11.5	<12	
21018	888	—	11.45	11.7	
21	903	—	11.5	11.6	
25	944	BT	11.6	11.1	
77	12286	—	11.5	12.3	
78	291	—	11.4	12.6	
81	309	BT	11.5	11.8	
154	599	—	BT	—	
55	614	—	11.5	<12	
333	13007	BT	11.4	13.0	
44	055	—	11.4	12.5	
91	255	BT	11.2	12.6	
94	277	—	11.5	12.8	

202

18-45		238	325	WX
21397	AM 13295	—	11.45	12.01
447	13479	—	11.3	11.7
49	485	—	11.3	11.7
52	498	—	11.4	12.0
54	507	—	11.4	<12
56	516	—	11.3	11.7
523	688	—	11.3	<12
749	14023	—	11.4	11.7
51	038	—	11.4	—
810	261	—	11.4	11.4
12	267	—	11.4	11.5
34	352	RT	11.45	11.4
22133	791	RT	11.3	11.2
172	881	12.4	11.4	11.1
191	934	—	11.3	11.71
192	939	—	11.5	11.8
483	15239	12.3	11.5	<13.5
541	877	RT	11.3	<12.5
607	535	—	11.5	<12
July 12 850	601	—	11.4	<12
27631	AX 3263	12.3	11.51	<14
Aug 11 661	80	12.3	11.4	<14.5
Sept 3 684	95	—	11.5	<15

1899-1903

1906-1910

1913-1917 - 1922

203

17-45		238	325	WX	238
14874	AM 73	—	11.55	—	
875	80	—	11.7	—	
942	225	—	11.3	—	
15071	366		11.4		
117	426		11.45		
226	555		11.2		
560	879	12.6	13.0	13.01	
602	960		12.4		
609	988		11.9		
841	1171		11.4		
868	1213	12.4	11.6	11.4	
870	1225	12.4	11.5	12.0	
914	1351	12.5	11.4	12.5	
18	1374		11.5	1	
25	1383	—	11.4	12.31	
27	1397	12.4	11.4	11.5	
74	1498	BT	11.2	11.7	
16034	1640	12.4	11.3	11.7	
177	1829		11.5		
208	1852		11.45		

17325	4174	12.4	11.7	<13	
53	249	12.4	11.4	<13	
63	273	12.4	11.5	<12.5	
78	329	—	11.4	11.9	
429	455	12.4	11.5	13.0	
33	486	12.3	11.45	12.3	
93	612	12.2	11.6	—	
686	778	12.3	11.4	11.4	12.5

204

17-45		238	325	wx	238
17706	AM 4820	12.0	11.4	—	<12.3
27	878	12.5	11.5	11.8	12.8
28	888	12.2	11.4	11.3	12.6
59	961	13.1	11.4	11.4	13.3
89	5034	<13	11.7	11.4	<13
803	063	<13.4	11.7	11.6	13.6 ^{or ms}
816	104	<13	11.4	11.7	<13
18034	358	<12.5	11.4	—	—
111	575	<13.5	11.3	11.7	<13.2
119	607	<12.5	11.5	11.5	<13
155	708	<13	11.4	11.4	<13
169	751	<13	11.4	11.8	<13
404	6024	12.10 ¹	11.4	12.3	
20	055	12.7	11.5	12.1	
36	105	Bx	11.5	—	
66	198	12.2	11.6	12.2	
75	239	12.8	11.45	12.2	
83	287	12.0	11.45	12.2	
513	410	12.5	11.6	11.9	
23	432	12.3	11.3	11.8	
30	448	12.4	11.5	11.9	
62	582	Bx	11.5	<12	
911	7221	12.3	11.6	<12.5	

19695	AM 8731	+	Bx	—
888	844		11.4	
93	870		11.4	
97	890		11.4	
928	9038		Bx	

17-45		238	325	W X
19940	AM 9098	—	11.3	<13
45	115		11.3	
57	182		11.4	
72	231		11.4	
73	238		11.4	
82	296		BT	
20008	375	—	11.5	<12
043	533		11.5	
047	554	—	11.3	<12.5
282	802		<11.5	
304	883	—	<12	—
307	894		<12	
08	898		<11.7 HF	
13	907	12.4	13.1	12.6
15	918	12.2	<12.8	12.5
24	926	12.3	du 12.3	<12
27	935	12.4	<12.5	13.0
36	969	—	<12.3	12.8
39	989	BT	<12	<12
348	10021		<11.7	
67	087	BT 12.3	or 12.5	<13
73	096		<12	
84	699	12.9	<13	12.8
755	11185	—	11.4	—
426	10213	12.4	13.0	11.8
680	736	12.4	11.5	11.7
89	769	BT	11.4	11.9
94	812		11.4	
932	11557		11.2	
990	673	—	11.45	10.9
95	710	12.1	11.45	11.6

206

17-45		238	225	W X 2A
21006	AM 11774	12.3	11.5	11.3
046	12105	Bt	11.3	11.5
47	117	—	11.4	11.6
50	142	—	11.4	11.2
368	13167	—	11.6	11.2
72	187	—	11.7	—
431	438	—	11.5	11.2
731	986	—	11.5	11.3
32	994	—	11.45	11.3
776	14127	12.2	11.4	11.0
87	146	—	11.5	11.5
22161	854	12.4	11.5	11.5
161	855	12.4	11.45	11.5
164	864	12.5	11.3	11.3
514	15290	—	11.5	11.2
23172	719	—	11.4	11.2
176	729	—	11.4	—

19-45	238	325	uxGA
1489/ AM 107	—	11.5	213

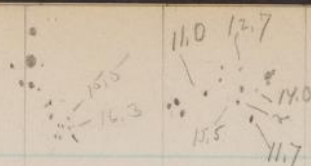
17719	AM 4858	12.4	11.7	11.1
738	4920	—	—	11.4

19560	8294	12.3
571	8361	12.91
588	8389	12.7
604	8494	13.5

208

10.

MF



(510)

(207)

23911	8537	416.3	11.5
965.687	8673	416.3	<u>13.5</u>
992	8724	415.8	11.5
24026	8785	416.0	11.5
056	8842	416.3	11.6
411	9816	15.3	11.6
412	28	15.3	11.5
413.477	38	15.4	<u>15.4</u>
626	10141	416.2	11.5
27	146	416.5	11.5
49.757	240	416.5	<u>11.9-12.0</u>
50	249	416.5	11.6
54	271	16.6?	11.6
55	279	416.5	11.5
56	284	416.5	11.8
81	365	416.3	11.5
711	522	15.4	11.5
12	534	15.5	11.6
27	572	15.5	11.6
28.	576	15.3	11.6
	577	15.5	11.6
	578	15.6	11.6
	579	15.3	11.6
20355	11533	416.2	11.6
83	662	415.6	11.6
86	708	416.0	11.6
88	718	415.8	11.6
90	743	415.8	11.8

J.D	M.F	(5-10)	(207)
25414	11844	216.3	11.6
18	883	145.8	11.5-6
19	899	Run	11.6
21	919	216.0	11.6
37	973	215.8	11.6
93	12285	Run	11.6
745	13126	216.0	11.6
49	134	216.0	11.6
94	287	215.8	11.6
99.464	327	215.8	11.6 ^{the part of the}
832	398	215.6	11.6
51	463	16.0:	11.5
54	481	215.8	11.6
55	495	15.5	11.6
61	500	Run	11.6
62	562	15.6	11.6
26067	14690	215.8	11.6-7
89	144	215.8	11.6
90	150	215.8	11.6
91	164	216.2	11.5
92	175	217.8	11.5
93	190	216.0	11.6
95	203	216.0	11.6
97	228	215.8	11.6
101.554	240	215.8	14.6
2	246	215.8	11.6
3	250	216.0	11.6
4	256	215.7	11.6
5	259	216.0	11.6
117	277	216.0	11.8

210

	MF	(510)	(207)
26 118	11294	15.6: ?	11.5
20	317	16.0	11.6
	318		11.6
	19		11.6
	20		11.6
	21		11.6
	22		11.6
	23		11.6
23	49	15.8	11.5
24	63	blur	11.5
25	73		11.5
30	85	15.8	11.5
31	97	15.8	11.5
44	14912	15.8	11.6
45	19	"	11.5
46	28	"	11.6
47	35	"	11.6
53	60	"	11.5
	64	blur	11.5
54	76	vis?	11.6
55	88	blur	11.6
56	502	"	11.6
58.471	15	blue	<u>13.0</u>
59	27	15.5	11.7
60	38	15.5	11.6
61	46	blur	11.5-6
62	53	blur	11.5
74.401	70	"	<u>14.2</u>
75	80	"	11.6
76	92	"	11.6

	MF	(510)	(207)
26177	14608	blue	11.5
79	19	215.8	11.6
80	36	blue	11.5
81	45	blue	11.5
82	60	"	11.7
86	88	"	11.6
87	90	216.0	11.5
	91		11.6
	92		11.6
	93		11.6
	95		11.5
	96		11.6
	97		11.6
90.286	721		<u>13.9</u> ⁹
202	32	215.8	11.5
4	38	blue	11.6
8	49	215.8	11.6
10	58	blue	11.5
14	82	"	11.6
17	14805	"	11.5
39	858	"	11.6
460.598	15394	115.6	<u>12.0</u> ¹
72	424	15.9	11.5
73	439	16.1	11.5
75	453	16.1	11.6
79	478	16.4	11.5
81	99	216.0	11.5
83.544	511		
	83	16.3	<u>12.4</u> ¹
	540		
89	84	216.5	11.7-8
501	554		
	801	216.3	11.5

	MF	(510)	(267)	(213)	(347)	J.D. Bk 14.6.193	MF 1721-325	(207)
26504	15589	216.3	11.6				8527	11.5
62	791	216.0	11.5				8715	11.5
602	16075	blue	11.3-4	10.8	13.7		8772	11.5
838	16767	215.8	11.5	10.8	13.7		9104	11.4
71	931	216.0	11.5	10.8	12.6		9121	11.6
97	17055	blue 215.7	11.5	10.7	12.5		9134	11.6
917	158	" 215.7	11.6	10.8	13.7-8		9160	11.6-7
27140	812	blue 215.7	11.6	10.6	13.7		9199	11.6
293	18421	" 215.6	11.5	10.6	12.8-9		9214	11.8
99	544	" 215.6	11.5	10.8	12.9		9231	11.6
305	657	blue	11.8	10.8	13.8-9	24299.754	9252	13.8
6135-8	670	"	13.8-9	10.7	13.9		9271	11.5
355	786	215.7	11.5	10.7	13.5		9289	11.6
	787	blue 215.7	11.4-5	10.7	13.5		9381	11.7
590.	19247	blue	11.8	10.8	12.3-4		9409	11.5
	259		11.5	10.6-7	13.5		9411	11.5
594	321	115.8	11.5	10.6-7	12.3	24324.706	9426	12.6
96	340	115.6	11.5	10.8	12.6-7		9444	11.5
601	403	115.6	11.5	10.8	12.9-130		9461	11.6
610	455	115.6	11.6	10.8	13.1		9477	11.5
618	1358801	blue	11.8	10.6	12.6		9520	11.5
							9529	11.5
							9530	11.5
							9531	11.5
							9532	11.5
							10449	11.7
							10481	11.7
							10533	11.8
							10607	11.6
							10672	11.6
	MF							
	1721-325	(207)						
	10684	11.6						
24772.493	10831	12.6						
	11754	11.5						
	13138	11.5						
833.317	13410	12.5						

	RB	(207)	(213)	(347)		J.D.	RB	(207)
26911.410	17-30° 3207	blue fl?				25710.556	254	12.0
914.351	3233	11.6				720.636	294	11.6
972.239	3530	H ₆ blue				739.537	314	11.5
27194.542	4111	11.5				749.526	342	11.6
219.409	4187	blue 11.6-12.0?				826.294	474	11.6
	4983	11.6				26123.470	1012	11.6
	5157	11.5				1159.401	1095	11.6
	5202	11.5				211.297	1230	11.6
25705.570	18-30° 228	blue 11.7?	9.9	13.5		237.242	1283	11.6
6.565	234	11.6	10.1	12.8		26504.401	1846	7/1
10.616	255	13.0-1 12.9-13.0	10.7-2	12.8		802.621	2560	11.6
17.618	291	11.5	10.1	13.4		26810.552	2617	13.0
71.496	374	11.6	10.2	14.0		815.498	2646	11.5
73.468	379	11.6	10.5	blue		868.469	2830	11.7
1730-710	415	11.6	10.3	"		26941.226	3352	11.6
25792.399	418	13.5	10.5	13.5		943.295	3358	11.6
99.412	438	11.8	10.1	13.0		27181.625	4047	11.6
847.259	512	11.6 blue	9.9	13.0		243.419	4256	11.5
53.319	526	11.4	10.0	13.5		309.228	4572	11.6
64.308	548	11.5	10.0	12.5			4997	11.5
81.261	559	13.0	9.9	14.0		5236	11.6	
90.250	590	11.4	10.0	12.3		17-30°		
26067.561	886	11.7	10.1	13.0		26469.503	1679	11.7
90.619	922	11.6	10.0	12.7		477.470	1717	11.6
97.495	962	11.5	10.2	13.1		484.511	1755	11.6
26104.520	975	11.6	10.0	13.5		587.296	2053	11.6
22.502	1007	11.6	10.2	13.0		598.280	2127	11.6
31.469	1029	11.6	10.2	13.2		777.619	2525	11.5
53.478	1062	11.5	10.5	13.1		829.482	2690	11.7
74.407	1117	12.5	10.4	12.7		894.408	3061	11.5
82.284	1161	11.5	10.5-6	13.5				

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18^h -30°

B27 J.D. no.

J.D.	R.B.	(207)	(213)	(347)
26188.353	1190	11.6	10.4	13.1
208.312	1218	11.5	10.5	13.0
232.237	1274	11.6	10.5	12.8
93.243	1309	11.6	10.5	13.6
952.615	1197	11.4	10.8	12.5
59.561	1637	11.6 ^{blue}	10.8	12.9
61.549	1660	11.6	10.8	13.1
502.468	1835	11.5	10.7	13.1
26508.492	1870	11.4	10.7	12.3
12.424	1888	11.5	10.7	12.6
14.571	1890	11.6	10.6	12.7
61.291	1984	11.6	10.3	blue 13.5
67.356	2023	11.6	10.2	12.4
26633.229	2247	blue	10.5	blue
801.824	2254	11.7	10.6	13.5
27.587	2681	11.6	10.6	13.2
69.529	2839	11.5	10.5-6	12.2-3
72.392	2869	11.5	10.6	12.5
923.414	3277	11.5	10.8	12.5
26949.232	3366	11.8-9	10.6	13.4
27226.483	4208	11.6	10.8	13.4
252.406	4299	11.5	10.8	blue
299.365	4524	11.5	10.8	13.4
545.608	5014	11.5	10.7	13.0
27571.563	5046	12.2	10.7	13.2
590	5238	11.5	10.8	12.9
607	5317	11.7	10.7	13.4
606	5336	11.6	10.7	13.6
27610.	5343	12.5-12.3	10.7	13.1
660.289	5540	11.6	10.8	13.4
714.	5696	11.6	10.8	13.3

J.D	RB	(207)	(213)	(347)
26469.525	1680	blue	10.8	blue
489.433	1720	11.5;	10.8	"
26538.	1911	blue	10.5	"
546.330	1941	"	10.4-5	
606.286	2153	"	10.5	
835.544	2733	"	10.6	"
843.551	2764	11.5	10.4-6	12.8
896.461	3068	11.4	10.6	12.8;
911. ³⁸⁸ 432	3206	11.6;	10.6	blue
911.432	3208	11.4	10.7	blue
917.350	3252	11.5	10.7-8	14.0 ⁴ /13.5
960.281	3415	blue	10.8	blue
27156.624	3970	11.5	10.8	13.5
196.556	4118	11.6	10.8	13.0
219.472	4188	—	10.8	—
27331.239	4620	12.0 ^{ay} ;	10.8	—
564.	5150	11.5	10.5	12.3
583	5211	—	10.6	—
622.456	5393	11.6	10.6	13.1
32.389	5449	11.5	10.6	13.2
86.299	5619	11.6	10.6	13.0
27688.299	5621	11.5?	10.7-8	13.0

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J.D.	AX	(347)	(213)	(207)	J.D.	AX	(347)	(213)	(207)
23900.874	17 ^h -45 ^m 474	—	10.3-4	—	25449.349	17 ^h -45 ^m 2672	<13.3	10.1	11.6
9.857	504		10.5	11.6	69.291	2737		10.1	11.5
59.585	608		10.3-4	11.5	77.248	2776		10.2	11.6
64.699	640		10.4	11.6	79.248	2783		10.1	11.5
74.614	688		10.4	(13.0)	507.241	2933		10.2	
88.712	712		10.5	11.6		18 ^h -30 ^m	13.0	10.1	11.6
24019.532	762		10.5-6	11.5	23919.791	535	12.6	10.4	11.6
69	805		10.6	—	60.667	613	1	10.5	11.6
269.765	1028		10.8	11.5	65.699	645		10.5	<13.0
290.729	1067		10.8	11.6	69.700	664	13.1	10.5	11.6
99.654	1098		10.8	Blue ff?	93.636	725		10.5	11.6
313.651	1137		10.8	11.6	24020.573	765		10.6	
325.680	1179		10.8	12.0	23579	770	13.8	10.5	11.6
56.8539	1244		10.7	11.6	33573	793	12.8	10.5	11.6
74.570	1274		10.7	11.6	70.845	1032	<13.3	10.8	11.6
402.515	1307		10.2	11.6	85.762	1049		10.8	11.6
626.743	1577		10.1-2	Blue	300.795	1106		10.8	11.6
646.708	1617	12.8	10.1	11.5	17.710	1146	<13.3	10.8	11.6
54.692	1649		10.1	11.5	25.745	1180	1	10.8	11.6
69.690	1671		10.5	11.6	48.683	1220		10.8	11.6
78.688	1690		10.3	11.5	78.575	1284		10.7	11.7
98.695	1727		10.5	11.6	404.515	1316	12.9	10.3	11.6
707.648	1761	13.1	10.6	11.6	32512	1360	Blue	10.4	11.6
11.678	1775		10.2	11.5	623.861	1575	12.6	10.5	11.6
39.576	1836		10.7	11.6	48.766	1625	12.7	10.5	11.5
59.527	1862		10.6	11.5	54.756	1650	13.5	10.3	11.6
67.512	1890		10.6	11.7	681.743	1699	13.3	10.5	12.0
25393.557	2472		10.3		703.690	1743	13.0	10.4	11.6
412.477	2505		10.2	11.6	706.	1754	13.2	10.6	11.6
419.344	2545		10.0	11.6		1756		10.6	<12.0
42349	2612		10.1	<13.0	.708	1757	13.4	10.6	<12.7

J.D.	AX	(347)	(213)	(207)	J.D.	AX	(347)	(213)	(207)
24712	1781		10.7	11.6	24300.861	1107		10.8	11.6
727.644	1805	12.5	10.5	11.5	320.751	1164		10.9	11.5
31.636	1817	13.0	10.6	12.4	327.	1196		10.9	11.6
54.509	1853	12.5	10.6	11.6	359.631	1250		10.8	
87.553	1919	12.5	10.4	11.6	74634	1275		10.6	11.6
94.524	1941	13.4	10.2-3	11.5	387.577	1296		10.7	
25154.249	2015		10.2	11.6	402.579	1308		10.6	11.6
355.598	2265	13.3	10.0	11.5	40.514	1372		10.6	
86.477	2423	13.5	10.1	11.6	626.814	1578		10.6	
89.604	2449		10.0	11.6	51.829	1640		10.6	
410.465	2494		10.0	11.7	56.827	1657		10.5	11.5
22.324	2560		10.0	blue bright	83.744	1706		10.6	
41.346	2605		10.0	11.6	700.694	1735		10.6	11.6
48.350	2665	12.5	10.0	11.6	13.766	1792		10.6	11.6
79.319	2784		10.1	11.6	39.639	1837		10.6	11.6
	3101		9.8		67.575	1891		10.6	
	194				814.521	1969		10.6	
27296					25383.610	2386		10.0	
23918.867	3112		9.8		412.546	2506		10.1	
27336	3126		10.0		19.472	2547		10.0	
23918.867	528		10.5		42.485	2614		10.1	11.5
60.710	614		10.5		49.413	2673		10.0	
61.707	622		10.4		69.356	2738		10.1	11.6
67.698	652		10.4		77.312	2777		10.1	
74.629	689		10.4		508.239	2937		10.1	
91.701	713		10.6		531.256	3000		10.2	
24019.597	763		10.6-7						
35.600	806		10.6						
76.	865		10.6						
270.810	1068		10.9	11.6					
92.273	1072		10.8						

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2880655

over
5145

31241.204	MF 32531	10.2	8999	513	658
215	532	10.2		516	661
225	33	10.2		519	664
239	34	10.2		523	668
250	35	10.2		526	671
270	36	10.2		529	674
270	37	10.3		532	677
284	38	10.3		536	681
294	39	10.3		540	685
305	40	10.2		542	687
319	41	10.3		546	691
329	42	10.35		549	694
340	43	10.4		552	697
350	44	10.5		555	700
362	45	10.7		559	704
371	46	10.9		561	706
382	47	10.95		564	709
392	48	11.0		567	712
405	49	11.1		571	716
416	50	10.9		574	719
426	51	10.95		577	722
436	52	10.8		580	725
447	53	10.7		583	728
457	54	10.6		586	731
468	55	10.3		589	734
478	56	10.3		592	737
490	57	10.2		595	740
500	58	10.2		598	743
511	59	10.2		601	746

2880655

corr

31241.523	MF 32560	10.2	605	750
534	61	10.25	608	753
544	62	10.2	611	756
566	63	10.3	614	759
564	64	10.3	617	762
574	65	10.2	620	765
583	66	10.3	622	767
31282.200	32734	10.2	901/ 323	178
211	5	10.2	326	181
221	6	10.3	329	184
233	7	10.2	332	187
243	8	10.25	335	190
253	9	10.3	338	193
266	40	10.35	342	197
276	41	10.3	344	199
289	2	10.3	348	203
299	3	10.3	351	206
310	4	10.4	354	209
320	5	10.4	357	212
330	6	10.45	360	215
342	7	10.4	363	218
352	8	10.4	366	221
364	9	10.35	370	225
374	50	10.4	373	228
384	1	10.3	376	231
394	2	10.3	378	233
405	3	10.3	382	237
415	4	10.25	385	240
426	5	10.2	388	243
437	6	10.3	391	246
447	52757	10.2	394	249

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288065
9012corr
+145

31 286.271	MF32782	10.25	495	640
291	83	10.3	498	643
292	4	10.3	501	646
303	5	10.3	504	649
314	6	10.2	508	653
324	7	10.3	511	656
336	8	10.2	514	659
347	9	10.25	517	662
357	90	10.3	520	665
370	1	10.2	524	669
380	2	10.3	527	672
390	3	10.25	530	675
403	4	10.2	533	678
413	5	10.3	536	681
424	6	-	539	684
436	7	10.3	543	688
444	8	10.35	545	690
458	9	10.4	549	694
470	800	10.4-	553	698
480	1	10.5	556	701
490	2	10.7	558	703
503	3	11.0	562	707
511	4	11.1	564	709
521	5	11.2	567	712

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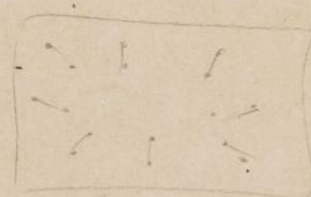
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