KG
11365
990

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KG11365 .990

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Scale R. Correction to scale, = +0.3

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All series reductions in this book made with magns. on scale of HC 170.

Book examined for underlinings which were copied in Books for Series Plates, Nov. 30, 1914. F.C.

A few early yellow series in this book were first reduced by Ptg. magnitudes. When these have been re-reduced by means of Ptv. magnitudes, a green "Y" is put at the head of the correct column of reductions.

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1913phab.proj..001t

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2

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Series taken Feb. 4, 1913.

Scale 4.

March 3, 1913

11:40 MC 2554 Pole

		MC 2559 h7	MC 2565 h11	Mean	Resid.	Diff.
5						
6						
8						
9				Mean	Resid.	Diff
10	4.8	4.8	4.8	4.77	0 1 0	+4.12
11	5.2	5.3	5.3	5.27	1 0 0	4.15
12	5.5	5.7	5.7	5.57	1 1 1	4.16
13	6.1	6.1	6.1	6.10	0 0 0	4.07
14	6.4	6.4	6.4	6.43	0 0 1	4.09
15	6.7	6.8	6.8	6.77	1 1 0	4.17
16	7.1	7.2	7.2	7.13	0 1 0	4.13
17	7.5	7.5	7.5	7.50	0 0 0	3.99
18	7.9	7.9	7.9	7.90	0 0 0	4.02
19	8.1	8.2	8.2	8.13	0 1 0	4.15
20	8.3	8.4	8.4	8.40	1 0 0	4.19
23	8.8	8.7	9.0	8.80	1 1 2	4.40
25	9.1	9.2	9.2	9.20	1 0 1	4.53
26	9.5	9.8	9.8	9.70	2 1 1	4.49
27	9.9	10.0	10.0	9.95	1 0 0	4.60

P.C.	MC 2559 h7	MC 2565 h11	Mean	Resid.	Diff.
5.3	5.3	5.4	5.33	0 0 1	1.06
6.2	6.4	6.6	6.40	2 0 2	0.58
7.7	7.7	7.7	7.70	0 0 0	0.40
8.2	8.4	8.5	8.37	2 0 1	0.33
8.4	8.7	8.7	8.60	2 1 1	0.29
9.1	9.2	9.1	9.13	0 1 0	0.29
9.5	9.5	9.5	9.50	0 0 0	0.23
9.9	9.9	10.0	9.93	0 0 1	0.24

$\frac{0}{4}$ $\frac{0}{4}$ $\frac{4}{4}$
0.00 0.00 +0.10

$\frac{2}{4}$ $\frac{2}{4}$ $\frac{2}{4}$
-0.05 +0.05 +0.05

$\frac{2}{8}$ $\frac{2}{8}$ $\frac{6}{8}$
-0.02 +0.02 +0.08

$\frac{2}{5}$ $\frac{0}{5}$ $\frac{2}{5}$
-0.04 0.00 +0.04

$\frac{1}{5}$ $\frac{1}{5}$ $\frac{0}{5}$
-0.02 +0.02 0.00

$\frac{6}{5}$ $\frac{0}{5}$ $\frac{4}{5}$
-0.12 0.00 0.08

$\frac{9}{15}$ $\frac{1}{15}$ $\frac{4}{15}$
-.06 +01 +.04

M.A.R.

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Series taken Feb. 4, 1913.

Scale U

March 3, 1913. Cloud

Mc 2555 — Neb. in Orion

	Curve	Magn.	P.C.			Curve	Magn.	P.C.	Curve	Magn.
1	5.1	+4.11	9.21	8.7	+0.30	9.00	1 = α			
2	5.7	4.10	9.80	9.1	0.29	9.39	2 = γ			
3	6.0	4.10	10.10	9.5	0.26	9.76	3	5.0	+4.12	9.12
4	6.5	4.10	10.60	F.			4	6.2	4.10	10.30
5	6.6	4.14	10.70				5	6.8	4.10	10.90
6	6.8	4.10	10.90				6	7.2	4.11	11.31
7	7.1	4.12	11.21				7	7.4	4.13	11.53
8	7.9	4.20	12.10				8	7.7	4.18	11.88
9	8.0	4.21	12.21				9	8.2	4.25	12.45
10	8.2	4.25	12.45				10	8.3	4.27	12.57
a	8.3	4.28	12.57				11	8.6	4.33	12.93
b	8.8	4.39	13.19				12	8.9	4.40	13.30
c	8.9	4.40	13.30				13	9.2	4.45	13.65
d	9.3	4.47	13.77				14	9.8	4.57	14.37
e	9.9	4.60	14.50				15	10.0	4.60	14.60
							α=1	3.1		
							β	3.7		
							γ=2	3.9	4.18	8.08
							δ	3.9	4.18	8.08
							ε	4.2	4.18	8.38

Mc 2556 25 K.

7.3 ×	+0.45	7.75	6.2?	def.	0.569	6.89?
			6.6		0.53	7.13
			6.7		0.53	7.23
			7.1		0.49	7.59
			7.3		0.48	7.78

× Remeasured 8.4; original meas. wrong. Reject.
W Feb. 5, 1915.

M. OR.

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1913phae.proj..991L

6

Series taken Feb. 4, 1913.

Scale 11

Copied March 3, 1913 Copied

MC 2557 23 Ks

	Curve	Magn.	P.C.	Curve	Magn.
1	3.2	.	6.7	+0.53	7.23
2	4.1	+4.18	7.2 dup.		
3	4.7	4.13	8.83	8.6	0.31 8.91
4	5.7	4.10	9.80	9.8	0.24 10.04
5	6.2	4.10	10.30		
6	6.5	4.10	10.60		
7	6.5	4.10	10.60		
8	7.1	4.11	11.21		
9	7.7	4.88	11.88		
10	8.0	4.21	12.21		
11	8.7	4.37	13.07		
12	9.1	4.43	13.53		
13	9.1	4.43	13.53		
14	9.7	4.55	14.25		
15	9.9	4.59	14.49		

MC 2558 26 Ke

	Curve	Magn.	P.C.	Curve	Magn.
1	3.2	.	6.1	+0.70	6.80
2	4.7	+4.14	t.p.		
3	5.2	4.11	poor		
4	5.4	4.10	9.50		
5	6.4	4.10	10.50		
6	7.1	4.11	11.21		
7	7.7	4.27	11.97		
8	8.7	4.36	13.06		
9	8.7	4.36	13.06		
10	9.1	4.43	13.53		
11	9.8 9.8	4.57	14.37		
12	9.7 9.8	4.56	14.31		
13	n.s.				
14	n.s.				
15	n.s.				

Plate poor - Companions elongated & poorly defined.

M.O.R.

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1913phae.proj..991L

Series taken Feb. 4, 1913.

Scale 4

March 3, 1913. Corrected.

MC 2559 Pole

MC 2560 26 K.
alt + 2.21

Sup. 4

		P.C.	Curve	Imagn.			Curve	Imagn.		Curve	Imagn.
5		5.3	+1.06	6.36	1	Q.			5.3	+1.06	6.36 .46
6		6.4	0.50	6.90	2	3.9	+4.18	8.08 .21	6.7	0.53	7.23 .36
8		7.7	0.40	8.10	3	5.1	4.11	9.21 .34	8.9	0.30	9.20 .33
9		~~8.4~~ 8.7	0.32	8.72	4	5.1	4.10	9.80 .93	9.7	0.25	~~9.95~~ 9.98
10	4.7	8.7	0.30	9.00	5	6.3	4.10	10.40 .53	±		
11	5.3	9.2	0.28	9.48	6	6.9	4.10	11.00 .14			
12	5.7	9.5	0.26	9.76	7	7.2	4.11	11.31 .45			
13	6.1	9.9	0.24	10.14	8	7.9	4.20	12.10 .24			
14	6.4				9	8.4	4.29	12.69 .83			
15	6.7				10	8.6	4.33	12.93 13.07			
16	7.2				11	8.9	4.40	13.30 .44			
17	7.5				12	~~8.0~~	~~4.41~~	~~13.41~~ .55	Reject. Strong star marked on plate.		
18	7.9				13	9.7	4.55	14.25 .39			
19	8.2				14	9.7	4.55	14.25 .39			
20	8.4				15	9.9	4.60	14.50 .64			
23	8.7										
25	9.2										
26	9.8										
27	n.s.										

M. 95

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Series taken Feb. 4, 1913.

Sc. U. Copied March 3, 1913

Mc 2561 (B3 = 6 40 +45°

Att + 321

#		Curve	Imagn.		Curve	Imagn.			Curve	Imagn.
too far from centre	1	·		6.2	+0.69	6.89	26	8.7	4.37	13.07
" " "	2	·		6.3	0.64	6.94	27	8.7	4.37	13.07
" " "	3	~~5.4~~		6.4	0.60	7.00	28	8.9	4.40	13.30
	4	4.0	+4.18 8.18	7.2	0.47	7.67	29	9.1	4.43	13.53
	5	4.0	4.18 8.18	7.2	0.47	7.67	30	9.0 9.00 9.0	4.41	13.41
	6	4.0	4.18 8.18	7.3	0.44	7.74	31	9.3	4.48	13.78
" " "	7	·	· ·	7.2	0.47	7.67	32	9.8	4.57	14.37
	8	4.7	4.14 8.84	8.0	0.38	8.38				
	9	~~4.9~~	4.13 9.03	8.7	0.30	9.00				
	10	5.3	4.11 9.41	9.2	0.28	9.48				
	11	5.3	4.11 9.41	9.2	0.28	9.48				
	12	5.3	4.11 9.41	9.2	0.28	9.48				
	13	5.6 5.75 5.9	4.10 9.85	9.7	9.60 9.5	0.25	9.85			
	14	5.9 5.80 5.7	4.10 9.90	9.4	9.40 9.4	0.27	9.67			
	15	6.2	4.10 10.30							
	16	6.2	4.10 10.30							
	17	6.3	4.10 10.40							
	18	6.2	4.10 10.30							
	19	6.3	4.10 10.40							
*	20	7.2 7.20 7.2	4.12 11.32							
	21	7.1 7.05 7.0	4.11 11.16							
	22	7.3	4.13 11.43							
	23	8.1	4.23 12.33							
	24	8.3	4.27 12.57							
	25	8.4	4.29 12.69							

cont above →

* No. 20 looked up for discordance.

Large accidental errors in plates 15–21 inclusive appear to be caused by difficulty of comparing images with scale and perhaps also by interference of inks on back of plate. H.S.L. Jan. 16, 1915

M.O.R.

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Series taken Feb. 4, 1913.

Scale R. Copied March 3, 1913.

Mc 2562 204 7-15

		Curve	Imagn.	B.C.	Curve	Imagn.			Curve	Imagn.
too far from centre	1			6.9	+0.50	7.40	27	8.6	+4.34	12.94
" " "	2			7.1	+0.49	7.59	28	8.7	4.37	13.07
" " "	3			7.1	+0.49	7.59	29	8.9	4.40	13.30
" " "	4			7.7 7.55	0.40	8.10	30	9.1	4.44	13.54
	5	4.3	+4.17	8.47	7.4 7.7	0.41	7.96	31	9.3	4.48	13.78
	6	4.3	4.17	8.47	8.2	0.35	8.55	32	9.4	4.50	13.90
	7	4.3	4.17	8.47	8.1	0.36	8.46	33	9.8 9.80	4.36 7	14.37
	8	4.8	4.13	9a6 8.93	8.7 8.25	0.30	9.00	34	9.7 9.9	4.57	14.37
" " "	9	.	.	.	8.2 8.3	0.34	8.59	35	n.s.		
	10	4.9	4.13	9.03	8.9	0.30	9.20				
	11	5.1	4.12	9.22	9.1	0.29	9.39				
	12	5.3	4.10	9.40	9.7	0.25	9.95				
	13	5.2	4.11	9.31	9.5	0.26	9.76				
	14	5.9	4.10	10.00	9.8	0.23	10.03				
	15	6.0 6.00	4.10	10.10							
	16	5.3 5.35	5.4 4.10	9.45	9.8	0.23	10.03				
	17	6.1	4.10	10.20							
	18	6.3	4.10	10.40							
	19	6.1	4.10	10.20							
	20	6.3	4.10	10.40							
	21	7.1	4.11	11.21							
	22	6.3	4.12	11.42							
	23	7.8	4.19	11.99							
	24	7.9	4.20	12.10							
	25	7.9	4.20	12.10							
	26	8.2	4.25	12.45							

Images are very poor and fuzzy. Companions are poor & hazy -

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Series taken Feb. 24, 1913.

Scale 1.

Copied.

March 3, 1913.

Copied.

	Mc 2563 alt. +06 Curve	Magn.	P.C.	99K. Curve	Magn.	Mc 2564 alt. 11 Curve	Magn.	P.C.	1K Curve	Magn.
1	4.3	+4.17 8.47	8.2	+0.35	8.55	+89°13 1 1.0	.	.	6.2	+0.69 6.89
2	4.8	4.13 8.93	8.9 8.90	0.30	9.20	2 5.9	4.10	10.00	9.9	+0.24 10.14
3	5.0	4.12 9.12	8.9 8.90 9.70	0.30	9.20	3 6.2	4.10	10.30		
4	5.4	4.10 9.50	9.8	9.6 0.24	9.94	4 6.3	4.10	10.40		
5	5.7	4.10 9.80	9.8	0.24	10.04	5 6.4	4.10	10.50		
6	6.7	4.10 10.80				6 7.3	4.12	11.42		
7	7.2	4.11 11.31				7 7.7	4.18	11.88		
8	7.9	4.20 18.10				8 8.2	4.25	12.45		
9	8.3	4.27 12.57				9 8.3	4.28	12.58		
10	8.5	4.30 12.80				10 8.9	4.40	13.30		
11	8.9	4.40 13.30				11 9.1	4.43	13.53		
12	9.2	4.45 13.65				12 9.3	4.48	13.78		
13	9.7	4.55 14.25				13 9.8	4.57	14.37		
14	9.8	4.57 14.37				14 9.8	4.57	14.37		
15	10.0	4.60 14.60				15 10.0	4.60	14.60		

Comparison poor.

On plate star marked +89°13. is also marked 1 and "= No.6. There is a no.6 so stars were meas. as above.

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1913phae.proj..991L

Series taken Feb. 4, 1913 -

Scale 2.

March 3, 1913

	MC 2565	Pole -
	Sep. 4	
5		5.4
6		6.6
8		7.1
9		8.5
10	4.8	8.7
11	5.3	9.1
12	5.7	9.5
13	6.1	10.0
14	6.5	
15	6.8	
16	7.1	
17	7.5	
18	7.9	
19	8.1	
20	8.4	
23	9.0	
25	9.3	
26	9.8	
27	10.0	

M.O.R.

1:05.

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1913phae.proj..991L

Series taken Jan. 9, 1913.

Scale O. March 6, 1912.

10:20 MD 2418 Dole

		2nD 2423 h15	2nD 2429 h18	Mean Reid			Diff.
5	B.	B	B				
6	1.3	1.3	1.7	1.43	1	1	3 5.55
~~7~~		~~3.3~~					
8	3.2	3.3	3.2	3.23	0	1	0 4.87
9	4.2	4.3	4.1	4.20	0	1	1 4.50
10	4.4	4.4	4.3	4.37	0	0	1 4.52
11	5.2	5.2	4.9	5.10	1	1	2 4.32
12	5.6	5.7	5.2	~~5.50~~ 5.23	1	2	3 4.23
13	6.1	6.5	6.2	~~6.40~~ 6.27	2	2	1 3.90
14	7.2	6.9	6.5	6.87	3	0	4 3.65
15	7.4	7.5	7.0	7.30	1	2	3 3.64
16	8.1	8.1	7.4	7.87	2	2	5 3.39
17	8.4	8.5	8.0	8.30	1	2	3 3.19
18	8.9	8.7	8.6	8.73	2	0	1 3.19
19	9.3	9.2	9.9	9.47	2	3	4 2.81
20	9.8	9.8		9.80	0	0	. 2.79

0	2	1
5	5	5
0.00	0.04	-0.02
3	6	9
4	4	4
+0.08	+0.15	-0.22
3	1	5
5	5	4
+0.06	+0.02	+0.12
6	9	15
14	14	13
+0.04	+0.06	-.12

MOR.

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Series taken Jan. 9, 1913.

Scale 0. Copied March 6, 1913. Copied

MD 2419 3K. MD 2420 48K

alt +14 alt +21

	Curve	Magn.		Curve	Magn.
1	3.8	+4.70 8.50	1	B.	
2	4.1	4.60 8.70	2	5.2	+4.26 9.46
3	6.9	4.69 10.59	3	6.3	3.90 10.20
4	8.2 8.2	3.27 11.47	4	7.7 7.3	3.49 10.99
5	7.4 7.4	3.51 10.91	5	7.4 7.7	3.47 11.02
6	9.0	3.01 12.01	6	7.9	3.36 11.26
7	9.2	2.96 12.16	7	8.3	3.23 11.53
8	9.8	2.75 12.55	8	9.2	2.96 12.16
9	10.0	2.69 12.69	9	9.3	2.91 12.21
10			10		
11			11		
12			12		
13					
14					
15					
α	2.2	5.27 7.47			
β	2.1	5.30 7.40	β	2.9	5.01 7.91
γ	2.2	5.27 7.47	γ	3.3	4.87 8.17
δ	4.2	4.58 8.77	ε	5.2	4.27 9.47
			δ	5.1	4.29 9.39

M.O.R.

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1913phae.proj..991L

Series taken Jan 9, 1913.

Scale 0. Epoch March 6, 1913. Epoch

MD 2421 10 K. MD 2422 19 Kz.

alt + 20 alt + 21

		Curve	Magn.			Curve	Magn.
1	1.1	+5.68	6.78	1	3.0	+4.99	7.99
2	4.1	4.60	8.70	2	4.2	4.57	8.77
3	5.3	4.22	9.52	3	7.3	4.54	10.84
4	6.0	4.00	10.00	4	8.1	3.29	11.39
5	7.2	3.59	10.79	5	8.9	2.75	12.55
6	8.1	3.29	11.39	6	9.2		
7	8.3	3.22	11.52	7			
8	9.4	2.89	12.29				
9	10.0	2.69	12.69				
10							

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1913phae.proj..991L

Series taken Jan. 9, 1913.

Scale 0

March 6, 1913. Cepheids

M10423, Pole.

See p-12

5	B.	
6	1.3	
8	3.3	
9	4.3	
10	4.4	
11	5.2	
12	5.7	
13	6.5	
14	6.9	
15	7.5	
16	8.1	
17	8.5	
18	8.7	
19	9.2	
20	9.8	

M10424 18 Ke.

alt +.22

		Course	Magn.	
1	B.	-		
2	3.0		+4.99	7.99 (8.12)
3	5.3		4.22	9.52 (.65)
4	6.0	6.00 6.0	4.00	10.00 (.13)
5	5.9	5.85 5.8	4.05	9.80 (.93)
6	7.2		3.59	10.79 (.92)
7	8.1		3.29	11.39 (.53)
8	8.2		3.27	11.47 (.61)
9	9.0		3.01	12.01 (.15)
10	9.3		2.91	12.21 (.35)
11	9.8		2.75	12.55 (.69)
12	10.0		2.70 2.64	12.70 (.84)

M 03.

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1913phae.proj..991L

Series taken Jan. 9. 1913.

Scale 0.

Object

MO 2425 49 K

		Curve	Magn.
wrong star marked 2.0 also right star marked	~~5.3~~ " "	~~+6.32~~ 4.22	~~7.32~~ 9.52 .65
2	5.3	4.22	9.52 .65
3	6.2	3.92	10.12 .25
4	7.3 7.20 7.1	3.59	10.79 .92
5	6.7 6.60 6.5	3.80	10.40 .53
6	~~6.7~~ 8.0	3.31	~~11.31~~ .45
7	8.1	3.29	11.39 .53
8	9.3	2.91	~~12.21~~ .35
9	9.8	2.75	~~12.55~~ .69
10	10.0	2.70	12.70 .84
11			
12			
13			
14			

March 6, 1913. Object

MO 2426 132 K

		Curve	Magn.
1	4.2	+4.58	8.78 .91
2	4.4	4.50	8.90 .03
3	5.4	4.20	9.60 .73
4	6.1	3.97	10.07 .20
5	6.7	3.77	10.47 .60
6	7.2	3.59	10.79 .92
7	8.1	3.29	11.39 .53
8	8.7	3.10	11.80 .94
9	9.1	2.99	12.09 .23
10	9.8	2.75	~~12.55~~ .69

MOR.

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Series taken Jan. 9. 1913.

Scale O. Copied March 6, 1913. Copied

MD 24 7 50K

		Curve	Magn.
1	3.1	+4.95	8.05
2	4.3	4.52	8.82
3	5.6	~~4.82~~	~~12.82~~ 9.72
4	7.1	3.61	10.71
5	8.0	3.31	11.31
6	8.1	3.29	11.39
7	9.0	3.01	12.01
8	9.7	2.78	12.48
9	10.0	2.70	12.70

MD 2428. 24 Ks.

		Curve	Magn.
1	2.9	+5.01	7.91
2	4.7	4.41	9.11
3	5.1	~~3.81~~ 4.29	9.39
4	5.8	4.08	9.88
5	6.7	3.77	10.47
6	7.2	3.59	10.79
7	8.3 8.7 8.50	3.17	11.67
8	8.9	3.04	11.94
9	9.1	2.99	12.09
10	9.8	2.75	12.55

M.O.R.

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1913phae.proj..991L

Series taken Jan. 9, 1913.

Scale 0. March 6, 1913.

M 10 2439 Orbe.

Sep. 12

5	B.
6	1.1
7	
8	3.2
9	4.1
10	4.3
11	4.9
12	5.2
13	6.8 2
14	6.5
15	7.0
16	7.4
17	8.0
18	8.6
19	9.9

m O. R

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1913phae.proj..991L

April 7, 1913

Scale W

(Pole) Mc 3074 Iso. Screen M.

	Dc.1	Dc.2
5	4.7	B.
6	5.6	5.4[3]
8	6.4	6.3
9	7.2	7.1
10	7.4	7.2
11	7.7	7.8
12	7.	8.1
13		8.5
14		9.0
15		9.3
16		9.6
17		10.0
4r		8.2
5r		8.4
6r	7.5	7.7
7r		8.1
8r		8.7
9r		9.1
10r		n.s.

M.O.R.

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1913phae.proj..991L

Scale W

April 7. 1913.

Mc 3073 Iss. without screen. (Pole)

	sc.1	sc.2
5	B	
6	B.	
8	4.2	
9	4.9	B.
10	5.1	5.1
11	5.1	6.0
12	6.3	6.4
13	6.8	6.9
14	7.2	7.2
15	7.7	7.8
16		8.1
17		8.4
18		8.8
19		9.2
20		9.5
23		9.9
4r	6.4	6.3
5r	7.1	7.1
6r	6.2	6.3
7r	6.9	7.0
8r	7.3	7.6
9r	7.9	7.9
10r	8.8	8.8
11r	9.1	9.1
12r	N.G.	

M.OR.

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Series 2696 -

Scale U.

April 22, 1913

10:00

~~MC 3077 Eryth~~

MC 2696 Pole.

		MC 2701 h20	Mean		Diff.	P.C		Mean		Diff.
5						5.4	5.4	5.40	0 0	+0.99
6						6.3	6.2	6.25	1 0	0.73
8						7.3	7.3	7.30	0 0	0.80
9						8.0	8.1	8.05	0 1	0.65
10	4.7	4.8	4.75	1 0	+4.14	8.2	8.3	8.25	0 1	0.64
11	5.2	5.2	5.20	0 0	4.82	8.7	8.7	8.70	0 0	0.72
12	5.5	5.5	5.50	0 0	4.23	9.1	9.0	9.05	1 0	0.68
13	5.7	6.0	5.85	1 2	4.32	9.5	9.3	9.40	1 1	0.77
14	6.2	6.3	6.25	0 1	4.27	9.7	10.0	9.85	1 2	0.67
15	6.5	6.5	6.50	0 0	4.44	f.				
16	6.8	7.0	6.90	1 1	4.36					
17	7.1	7.2	7.15	1 0	4.34					
18	7.4	7.7	7.55	2 1	4.37					
19	7.8	7.9	7.85	0 1	4.43					
20	8.1	8.3	8.20	1 1	4.39					
23	8.4	8.7	8.55	2 1	4.65					
25	9.0	9.0	9.00	0 0	4.73					
26 ~~27~~	9.5 ~~9.7~~	9.4	9.45	1 0	4.74					
27	9.7	9.9	9.80	1 1	4.75					
28	~~n.s.f.~~									

1/4 +.02   1/4 +.02

1/5 +.02   2/5 +.04

2/9 +.02   3/9 +.03

2/5 −.04   3/5 +.06

4/5 −.08   3/5 +.06

3/5 −.06   3/5 +.06

all 9/15 −.06   all 9/15 +.06

MAR.

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1913phae.proj..991L

1913phae.proj..991L

Series 3696 –

Scale 2

April 22, 1913

Mc 2697 24 K.

Corrected

Corr. +.22

		Curve	Magn.	P.C.	Curve	Magn.
1	3.6	.	.44	6.7	+0.76	7.46
2	5.1	+4.20	9.30	8.2	0.69	8.89
3	5.3	4.22	9.52	8.7	0.69	9.39
4	6.1	4.30	10.40	9.3	0.70	10.00
5	6.3	4.31	10.61	9.9	0.71	10.61
6	6.8	4.37	11.17			
7	7.1	4.40	11.50			
8	7.1	4.40	11.50			
9	7.3	4.41	11.71			
10	8.0	4.50	12.50			
11	8.2	4.52	12.72			
12	8.5	4.58	13.08			
13	8.9 / 9.25	4.65	13.56			
14	9.2, 9.3 / 9.00	4.70	13.95			
15	9.0, 9.0	4.68	13.68			
16	9.8	4.81	14.61			

Mc 2699. 122 K.

Corrected

Corr. −.18

		Curve	Magn.	P.C.	Curve	Magn.
1	4.7	+4.18	8.88	8.3	+0.69	8.99
2	5.1	4.21	9.31	8.3	0.69	8.99
3	5.6	4.25	9.85	9.6	0.70	10.30
4	6.0	4.30	10.30	9.9	0.71	10.61
5	6.3	4.31	10.61			
6	7.1	4.40	11.50			
7	7.1	4.40	11.50			
8	7.6	4.46	12.06			
9	7.9	4.49	12.39			
10	8.2	4.52	12.72			
11	8.9	4.65	13.56			
12	8.9	4.65	13.55			
13	8.9	4.65	13.55			
14	9.3	4.72	14.02			
15	N.S. defective?					

Poor plate – many defects in film

MOR

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1913phae.proj..991L

Series 2696 ~~2700~~ - 2701.

Scale x.

Ephem. April 22, 1913.

me 2700 26 Ka. Alt. +.02

	Curve	Magn.		B.C	Curve	Magn.
1	4.0	.	.	5.3	+0.96	6.26
2	5.0	4.20	9.20 .33	7.8	0.70	8.50 .63
3	5.2	4.21	9.41 .54	8.3	0.69	8.99 .12
4	5.7	4.26	9.96 .09	9.8	0.78	10.58 .68
5	6.3	4.31	10.61 .74			
6	7.1	4.40	11.50 .63			
7	7.3	4.41	11.71 .85			
8	8.2	4.52	12.72 .86			
9	8.3	4.54	12.84 .98			
10	8.7	4.61	13.31 .45			
11	8.7	4.61	13.31 .45			
12	9.3 9.20 9.1	4.70	13.90 14.04			
13	9.1 9.20 9.3	4.70	13.90 14.04			
14	9.97	4.80	14.50 .64			
15	9.9	4.82	14.72 .86			

Images faint.

me 2701

Sept. 21

5		5.4
6		6.2
8		7.3
9		8.1
10	4.8	8.3
11	5.2	8.7
12	5.5	9.0
13	6.0	9.3
14	6.3	10.0
15	6.5	
16	7.0	
17	7.2	
18	7.7	
19	7.9	
20	8.3	
23	8.7	
25	9.0	
26	9.4	
27	9.9	

MOR

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1913phae.proj..991L

Series 2717 -

Scale N.

April 29, 1913

10.20

Mc 2717 Orle

		Mc 2722 p.27	Mc 2725 p.29	Mean	Resid		Diff.
5							
6							
8							
9							
10	4.7	4.8	4.7	4.73	0	1 0	+4.16
11	5.0	5.1	5.0	5.03	0	1 0	4.39
12	5.3	5.4	5.4	5.37	1	0 0	4.36
13	5.7	5.8	5.8	5.77	1	0 0	4.40
(13)	14	~~5.7~~ 6.0	6.1	6.1	6.07	1	0 0	4.45
15	6.3	6.3	6.4	6.33	0	0 1	4.61
16	6.7	6.7	6.8	6.73	0	0 1	4.53
17	7.0	7.0	7.0	7.00	0	0 0	4.49
18	7.4	7.4	7.5	7.43	0	0 1	4.49
19	7.9	7.9	7.9	7.90	0	0 0	4.38
20	8.1	8.2	8.2	8.17	1	0 0	4.42
23	8.7	8.7	8.7	8.70	0	0 0	4.50
25	9.1	9.0	9.1	9.07	0	1 0	4.66
26	9.6	9.4	9.6	9.53	1	1 1	4.66
27	10.0	9.9	10.0	9.97	0	1 0	4.58

$\frac{3}{5}$ $\frac{2}{5}$ $\frac{0}{5}$
-.06 +.04 .00

$\frac{0}{5}$ $\frac{0}{5}$ $\frac{3}{5}$
.00 .00 +.06

$\frac{0}{5}$ $\frac{3}{5}$ $\frac{1}{5}$
.00 -.06 +.02

$\frac{3}{15}$ $\frac{1}{15}$ $\frac{4}{15}$
-.02 -.01 +.03

Mor.

9.c

			Mean	Resid		Diff.
5.4	5.4	5.5	5.43	0	0 1	+0.96
6.1	6.0	6.1	6.07	0	1 0	0.91
7.2	7.3	7.3	7.27	1	0 0	0.83
7.9	7.9	8.0	7.93	0	0 1	0.77
8.1	8.2	8.1	8.13	0	1 0	0.76
8.4	8.6	8.6	8.53	1	1 1	0.89
8.9	9.0	9.1	9.03	1	0 1	0.73
9.2	9.7	9.8	9.57	1	1 2	0.60
9.8	9.9	9.9	9.83	1	1 1	0.69
10.0						(0.94)

$\frac{1}{4}$ $\frac{1}{4}$ $\frac{2}{4}$
-.02 -.02 +.05

$\frac{1}{5}$ $\frac{4}{5}$ $\frac{5}{5}$
-.14 +.08 +.10

$\frac{8}{9}$ $\frac{3}{9}$ $\frac{7}{9}$
-.09 -.03 -.08

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Series 2717—

Scale 11

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MC 2719 B5 12+45—

Abt. +.22

	P.C.	Curve	Imagn.		P.C.	Curve	Imagn.
two far from centre	1				6.2	+0.90	7.12 .25
	2	3.0			6.1	0.90	7.00 .13
P.C. defective?	3	4.6 4.65 4.7	+4.27	8.92 .95	4.2 6.9 7.05	0.87	7.92 8.05
	4	4.2			7.3	0.83	8.13 .26
	5	4.9	4.30	9.20 .33	7.3	0.83	8.13 .26
" "	6				7.8	0.80	8.60 .73
" "	7				8.3	0.77	9.07 .20
	8	5.0	4.31	9.31 .44	8.1	0.78	8.88 .01
Im of P.C. difficult to compare with scale	9	5.1 5.10 5.1	4.33	9.43 .56	8.96	0.74	9.34 .47
	10	5.3	4.36	9.66 .79	8.3	0.77	9.07 .20
" " "	11				8.9	0.73	9.63 .76
	12	6.1	4.45	10.55 .68	9.9	0.73	10.63 .76
	13	6.2	4.46	10.66 .79			
	14	6.3	4.46	10.76 .89			
	15	6.3	4.46	10.76 .89			
	16	6.2	4.46	10.66 .79			
* 17a, c →	17a	6.3	4.46	10.76 .89			
	18	7.1	4.50	11.60 .73			
	19	7.3	4.50	11.80 .94			
	20	7.5	4.50	12.00 .14			
	21	7.8	4.51	12.31 .45			
	22	7.8	4.51	12.31 .45			
	23	8.1	4.52	12.62 .76			
	24	8.1	4.52	12.62 .76			
	25	8.2	4.53	12.73 .87			
* double bright in P.C.	26	8.5	4.54	13.04 .18			
	17b	6.4	4.47	10.87 .01			
	27	8.4	4.53	12.93 .07			
	28	9.0	4.57	13.57 .71			
	29	9.3	4.58	13.88 1.02			
	30	def.					
	31	9.9	4.60	14.50 .64			

Rejst. Inspection of plate shows that there was either a mistake of a unit, or the wrong image was measured.
N.S.L. Oct. 28, 1913.

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Series 26,17 —

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	mc2720			104 K			mc2721			32 K.		
	Abt. +.06						Abt. +.22					
		Curve	Imagn.	B.E.	Curve	Imagn.		Curve	Imagn.		Curve	Imagn.
1	4.2	.	.	9.0	+0.87	7.87	4.0	.	.	6.9	+0.87	7.77
2	5.3	+4.36	9.66	9.1	0.71	9.81	5.1	+4.33	9.43	8.2	0.78	8.98
3	5.8	4.41	10.21	9.7	0.70	10.40	6.0	4.44	10.44	9.1	0.70	10.40
4	6.3	4.46	10.76	n.s.			6.6	4.49	11.09			
5	6.7 6.70 6.7	4.49	11.19				7.2	4.50	11.70			
6	6.26.30 4	4.46	10.76				7.2	4.50	11.70			
7	6.9	4.49	11.39				8.0	4.51	12.51			
8	7.3	4.50	11.80				8.2	4.52	12.72			
9	7.6	4.50	12.10				8.1	4.52	12.62			
10	8.0	4.51	12.51				8.9	4.56	13.46			
11	8.6	4.54	13.14				8.9	4.56	13.46			
12	9.0	4.57	13.57				n.s.	.	.			
13	9.1	4.57	13.67				9.1	4.57	13.67			
14	9.3	4.58	13.88				9.9	4.60	14.50			
15	9.7	4.60	14.30				n.s.					

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Series 1617 —

Scale 11.

April 29, 1913 — Copied

	MC 2722	Pole	MC 2724 105K						
						Curve Magn.	PC		Curve Magn.
	See p. 24								
		PC.							
5		5.4	1	3.3	.	.	6.2	+0.90	7.10
6		6.0	2	4.9	+4.30	9.20	8.0	0.79	8.79
8		7.3	3	5.2	4.33	9.53	8.2	0.87	8.97
9		7.9	4	5.3	4.36	9.66	8.2	0.77	8.97
10	4.8	8.2	5	5.8 5.30 5.3	4.36	9.66	8.8 8.70 8.6	0.74	9.44
11	5.1	8.6	6	6.1	4.45	10.55			
12	5.4	9.0	7	6.7	4.49	11.19			
13	5.8	9.7	8	7.1	4.50	11.60			
14	6.1	9.9	9	7.1	4.50	11.60			
15	6.3		10	7.2	4.50	11.70			
16	6.7		11	7.9	4.51	12.41			
17	7.0		12	8.1	4.52	12.62			
18	7.4		13	8.3	4.53	12.83			
19	7.9		14	9.3	4.58	13.88			
20	8.2		15	9.8	4.60	14.40			
~~21~~			16	10.0	4.60	14.60			
~~22~~									
23	8.7								
~~24~~									
25	9.0								
26	9.4								
27	9.9								

m Pl.

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Series 2717-2728

Scale U

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Mc 2725 33K.

Abt. +.23

		Curve	Magn.		Curve	Magn.
1	4.1	.	.	7.1	+0.85 +4.50	7.95 11.60
2	5.0	+4.31	9.31	8.1	+0.78 4.52	8.88 12.62
3	5.2	4.34	9.54	8.8	+0.73 4.56	9.53 13.36
4	6.3	4.46	10.76	9.8	0.70 4.60	10.50 14.40
5	6.4	4.48	10.88			
6	6.6	4.49	11.09			
7	7.8	4.51	12.31			
8	8.1	4.52	12.62			
9	8.5	4.54	13.04			
10	8.9	4.56	13.46			
11	9.1	4.57	13.67			
12	9.1	4.57	13.67			
13	9.9	4.60	14.50			
14	10.0	4.60	14.60			
15	~~10.0~~ 9.9	4.60	14.60			

Mc 2726 58K.

Abt. +.22

		Curve	Magn.		Curve	Magn.
1	5.0	+4.31	9.31	8.1	+0.77	8.87
2	5.2	4.34	9.54	8.7	0.74	9.44
3	5.6	4.40	10.00	9.3	0.71	10.01
4	6.2	4.46	10.66	9.9	0.70	10.69
5	6.4	4.47	10.87			
6	7.2	4.50	11.70			
7	7.7	4.51	12.21			
8	7.9	4.51	12.41			
9	8.1	4.52	12.62			
10	8.8	4.56	13.36			
11	8.7 8.8	4.55	13.30			
12	8.8	4.56	13.36			
13	9.3	4.58	13.88			
14	9.7	4.60	14.30			
15	9.9	4.60	14.50			

M.O.R.

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1913phae.proj..991L

Series 2717 - 2728

Card

Scale K.

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Mc 2727 82K. Mc 2728 Scale.

Alt + 17

Sep. 24

	Curve	Magn.		Curve	Magn.		sec	
1	3.8	.	.	6.3	+0.90	7.20	5	5.5
2	5.3	+4.36	9.66	8.6	0.74	9.34	6	6.1
3	5.2	4.34	9.54	8.7	0.74	9.44	8	7.3
4	5.4	4.37	9.77	8.9	0.73	9.63	9	8.0
5	6.0	4.44	10.44					
6	6.4	4.47	10.87				10 4.7	8.1
7	6.9	4.49	11.39				11 5.0	8.6
8	7.2	4.50	11.70				12 5.4	9.1
9	7.7	4.51	12.21				13 5.8	9.8
10	7.9	4.51	12.41				14 6.1	9.9
11	8.3	4.53	12.83				15 6.4	
12	8.9	4.56	13.46				16 6.8	
13	9.1	4.57	13.67				17 7.0	
14	9.3	4.58	13.88				18 7.5	
15	9.8	4.60	14.40				19 7.9	
16	9.9	4.60	14.50				20 8.2	
							23 8.7	
							25 9.1	
							26 9.6	
							27 10.0	

11.25

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Scale R

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11:31

H 642

	Rec.1	Rec.2	Mean	P.40	Mean		
1	8.2	8.5	8.9	8.70	2.2	8.60	8.65 .05 .05
2	8.1	8.4	8.6	8.50	1.1	8.2	8.35 .15 .15
3	8.3	8.6	8.9	8.75	2.1	8.55	8.65 .10 .10
4	8.1	8.4	8.0	8.20	2.2	8.45	8.32 .12 .13
5	7.1	7.4		7.4		7.2	7.30 .1 .1
6	7.1	7.4		7.4		7.2	7.30 .1 .1
7	7.0	7.3		7.3		7.2	7.25 .1 .0
8	6.9	7.2		7.2		7.2	7.20 .0 .0
9	6.2	6.5		6.5		6.5	6.50 .0 .0
10	5.9	6.2		6.2		6.0	6.10 .1 .1
11	6.0	6.3		6.3		6.3	6.30 .0 .0
12	8.1	8.4	8.2	8.30	1.1	8.2	8.25 .1 .0
13	8.1	8.4	8.8	8.60	2.2	8.56	8.58 .02 .03
14	8.0	8.3	8.8	8.55	3.2	8.40	8.48 .07 .08

from.

H 644

	Rec.1	Rec.2	Mean	P.40	Mean	
1	8.1	8.4	8.7	8.55	2.1	8.70	8.62 .01 .08
2	8.1	8.4	8.7	8.55	2.1	8.65	8.60 .05 .05
3	8.2	8.5	8.8	8.65	1.2	8.75	8.70 .05 .05
4	8.0	8.3	8.2	8.25	1.0	8.2	8.22 .03 .02
5	8.1	8.4	8.2	8.30	1.1	8.50	8.40 .10 .10
6	8.1	8.4	8.2	8.30	1.1	8.50	8.40 .10 .10
7	8.0	8.3	8.0	8.15	1.2	8.45	8.30 .15 .15
8	6.2	6.5		6.5		6.5	6.50 .0 .0
9	7.0	7.3		7.3		7.3	7.30 .0 .0
10	5.2	5.5		5.5		5.5	5.50 .0 .0
11	6.0	6.3		6.3		6.2	6.25 .1 .0

Nos 9 & 10. from image

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Scale R

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	H 645				H 646			
	Sc.1	Sc.2	Mean	P.41 Mean	Sc.1	Sc.2		P.41 Mean
Too faint	1	.			1 8.2 8.5	9.0	8.75 ±.2	9.00 8.88 .12 .12
" "	2	.			2 8.2 8.5	8.9	8.70 ±.2	9.05 8.88 .18 .17
" "	3	.			3 8.2 8.5	8.9	8.70 ±.2	9.00 8.85 .15 .15
" "	4	.			4 8.2 8.5	8.9	8.60 ±.1	8.65 8.62 .02 .03
	5	8.1	8.4	8.2 8.30 ±.1	8.60 8.45 .15 .15	5 8.1	8.4	8.7 8.55 ±.1	8.60 8.58 .03 .02
	6	8.0	8.3	8.1 8.20 ±.1	8.45 8.32 .12 .13	6 8.1	8.4	8.7 8.55 ±.1	8.55 8.55 .00 .00
	7	8.1	8.4	8.1 8.25 ±.1	8.55 8.40 .15 .15	7 7.0	7.3	7.15 ±.1	7.3 7.22 .01 .08
	8	8.0	8.3	8.0 8.15 ±.2	8.45 8.30 .15 .15	8 7.0	7.3	7.15 ±.1	7.4 7.28 .13 .12
	9	8.2	8.5	8.9 8.70 ±.2	8.60 8.65 .05 .05	9 7.0	7.3	7.15 ±.1	7.2 7.18 .03 .02
	10	8.4	8.8	8.9 8.80 ±.1	8.65 8.78 .12 .13	10 6.1	6.4	6.4	6.5 6.45 .0 .1
	11	8.3	8.6	8.7 8.65 .01	8.50 8.58 .01 .08	11 5.9	6.2	6.2	6.3 6.25 .0 .1

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Scale R

April 29, 1913.

H 648

1:20

	sc.1	sc.2	Mean	P.43	Mean		
1	6.1	6.4	6.4	6.4	6.40	00	
2	6.2	6.5	6.5	6.4	6.45	10	
3	t/p.						
4	7.2	7.5	7.5	7.5	7.50	00	
5	8.28	8.9	8.70	2.2	8.85	8.78	08 07
6	8.28	8.7	8.60	11	8.85	8.72	12 13
7	8.89	9.0	9.05	10	9.00	9.02	03 02
8	t/p. 8.1 9.0	9.09	9.00	000	8.95	8.98	02 03
9	7.1	7.4	7.4		7.5	7.45	01
10	8.0	8.3	7.9	8.10	2.2	8.30	8.20 10 10
11	7.9	8.2	8.2		8.50	8.35	11 1

H 649.

	sc.1	sc.2	Mean.	P.44	Mean.		
1	7.9	8.2	8.2		8.30	8.25	01
2	7.9	8.2	8.2		8.30	8.25	01
3	8.1	8.4	8.3	8.35	01	8.50	8.42 01 08
4	9.1	9.4	9.2	9.30	11	9.50	9.40 10 10
5	9.2	9.5	9.4	9.45	10	9.65	9.55 10 10
6	9.5	9.8	9.8	9.80	00	9.80	9.80 0000
7	9.2	9.5	9.7	9.60	11	9.60	9.60 00 00
8	8.1	8.4	8.6	8.50	11	8.2	8.35 15 15
9	7.3	7.6	7.6		8.1	7.85	2 3
10	6.2	6.5	6.5		6.5	6.50	00
11	6.9	7.0	7.0		7.2	7.10	11

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H653

	Sc.1	Sc.2	Mean	P.44	Mean	
1	6.2	6.5	6.5	6.4	6.45	10
2	6.0	6.3	6.3	6.4	6.35	10
3	7.9	8.2	8.2	8.1	8.15	01
4	7.8	8.1	8.1	8.0	8.05	10
5	9.0	9.3	9.2	9.25 10	9.55 — 9.40	15 15
6	8.3	8.6	9.0	8.80 22	8.80 — 8.80	00 00
7	9.0	9.3	9.2	9.25 10	9.25 — 9.25	00 00
8	8.9	9.2	9.1	9.15 01	9.00 — 9.10 9.28	05 05
9	8.1	8.4	8.6	8.50 11	8.55 — 8.52	02 03
10	8.3	8.6	8.8	8.70 11	8.60 — 8.65	05 05
11	8.3	8.6	9.1	8.85 23	8.75 — 8.80	05 05

H655

	Sc.1	Sc.2	Mean	P.45	Mean		
1	8.0	8.3	8.1	8.20 11	8.55	8.38	18 17
2	7.9	8.2		8.2	8.55	8.38	18 17
3	8.1	8.4	8.1	8.25 21	8.70	8.48	23 22
4	9.2 9.5	9.3 9.6	10.1	9.7 9.72 21 40	9.70	9.71	01 01
5	9.0	9.3	9.3	9.30 00	9.65	9.48	18 17
6	9.1	9.4	9.3	9.35 01	9.60	9.48	13 12
7	8.9	9.2	9.0	9.10 11	9.25	9.18	08 07
8	t.p.						
9	t.p.						
10	t.p.						
11	6.1	6.4	6.4		6.4	6.40	0 0

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Scale R.

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N 658

	Sc.	Sc. 2	Means	P 45	Means		
1	7.9	8.2		8.45	8.32	12	13
2	8.1	8.4	8.60	8.8	8.72	12	11
3	8.2	8.5	8.8	8.65	8.75	10	10
4	8.1	8.4	8.3	8.35	0	1	
5	7.2	7.5		7.5	7.5	0	0
6	7.2	7.5		7.5	7.4	7.45	10
7	6.0	6.3		6.3	6.4	6.35	1 0
8	6.1	6.4		6.4	6.5	6.45	0 1
9	8.1	8.4	8.6	8.50	1	1	
10	7.9	8.2		8.2	8.45	8.32	12 13
11	7.9	8.2		8.2	8.60	8.40	2 2

N 660

	Sc. 1	Sc. 2	Means	P 46	Means		
1	8.1	8.4	8.3	8.35	0	1	
2	8.1	8.4	8.2	8.30	1	1	
3	8.2	8.5	8.3	8.40	1	1	
4	6.2	6.5		6.5	6.3	6.40	1 1
5	6.2	6.5		6.5	6.4	6.45	1 0
6	7.1	7.4		7.4	7.4	7.40	0 0
7	7.1	7.4		7.4	7.4	7.40	0 0
8	8.3	8.6	9.0	8.80	2	2	
9	8.3	8.6	9.0	8.80	2	2	
10	8.5	8.8	9.0	8.90	1	1	
11	8.2	8.5	9.0	8.75	3	2	

	P 46	Means		
1	8.45	8.40	05	05
2	8.55	8.42	12	13
3	8.65	8.52	12	13
4	6.3	6.40	1 1	
5	6.4	6.45	1 0	
6	7.4	7.40	0 0	
7	7.4	7.40	0 0	
8	8.80	8.80	0 0	
9	8.85	8.82	02	03
10	8.75	8.82	08	07
11	8.60	8.68	07	08

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Scale R. April 29. 1913.

H661

	sc1	sc2		R.46	Mean		
1	8.18	8.7	8.55	8.55	8.55	00	00
2	8.38	8.9	8.80	8.70	8.75	05	05
3	8.28	8.7	8.60	8.60	8.60	00	00
4	7.9	8.2	8.2	8.45	8.32	12	13
5	7.2	7.5	7.5	7.4	7.45	10	
6	7.2	7.5	7.5	7.4	7.45	10	
7	6.1	6.4	6.4	6.3	6.35	01	
8	6.0	6.3	6.3	6.4	6.35	10	
9	7.2	7.5	7.5	7.4	7.45	10	
10	7.1	7.4	7.4	7.3	7.35	01	
11	7.3	7.6	7.6	7.5	7.55	01	

H663

	sc1	sc2		R.41	Mean		
1	7.1	7.4	7.4	7.4	7.40	00	
2	7.1	7.4	7.4	7.4	7.40	00	
3	7.1	7.4	7.4	7.4	7.40	00	
4	6.2	6.5	6.5	6.5	6.50	00	
5	6.1	6.4	6.4	6.4	6.40	00	
6	7.1	7.4	7.4	7.5	7.45	01	
7	7.0	7.3	7.3	7.4	7.35	10	
8	8.1	8.4	8.2	8.30	11	8.55	8.42 12 13
9	8.1	8.4	8.6	8.50	11	8.55	8.52 02 03
10	8.2	8.5	8.7	8.60	11	8.55	8.58 02 03
11	8.1	8.4	8.3	8.35	01	8.55	8.45 10 10

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Scale R. April 29, 1913.

N 664 N 665

	sc.1	sc.2	Mean	Q47	Mean		sc.1	sc.2	Mean	Q48	Mean	
1	8.1	84	8.9	8.65	2 3	8.60	8.62	03 02	1	6.1	6.4	6.4	6.5	6.45	01
2	8.1	84	9.0	8.10	3 3	8.60	8.65	05 05	2	6.2	6.5	6.5	6.4	6.45	10
3	8.3	86	8.9	8.75	2 1	8.75	8.75	00 00	3	7.1	7.4	7.4	7.4	7.40	00
4	8.1	84	8.3	8.35	01	8.55	8.45	10 10	4	7.1	7.4	7.4	7.5	7.45	01
5	7.1	7.4		7.4		7.4	7.40	00	5	7.2	7.5	7.5	7.5	7.50	00
6	7.2	7.5		7.5		7.5	7.50	00	6	7.1	7.4	7.4	7.5	7.45	01
7	5.7	6.0		6.0		6.3	6.15	2 1	7	8.2	8.5	9.0	8.75	3 2	8.77	8.76	01 01
8	6.1	6.4		6.4		6.4	6.40	00	8	8.1	9.0	9.1	9.05	01	9.25	9.15	10 10
9	7.8	8.1		8.1		8.15	8.12	02 03	9	8.7	9.0	9.1	9.05	01	9.25	9.15	10 10
10	7.6	7.9		7.9		8.55	8.22	33 32	10	8.7	9.0	9.0	9.00	00	9.50	9.25	25 25
11	7.1	8.0		8.0		8.45	8.22	2 2	11	"							
									12	"							
									13	"							

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Scale R

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H 666

H 667.

	Rc.1	Rc.2	B-48	Mean		Rc.1	Rc.2		B-49	Mean	
1	8.28	8.6	8.55	10	8.75	8.65	10 10	1	t.p.		
2	8.28	8.9	8.70	22	8.75	8.72	02 03	2	8.38	8.9	8.80 22
3	8.38	9.0	8.80	22	9.00	8.90	10 10	3	8.38	9.0	8.80 22
4	8.18	4.8	8.60	22	8.70	8.65	05 05	4	t.p.		
5	7.2	7.5	7.5		7.5	7.50	0 0	5	t.p.		
6	7.2	7.5	7.5		7.4	7.45	1 0	6	t.p.		
7	5.8	6.1	6.1		6.4	6.25	12	7	8.38	6.8	8.70 11
8	6.1	6.4	6.4		6.6	6.50	11	8	8.7	9.0	9.00 0 0
9	8.0	8.3	8.7	8.50 22		8.50	a	9	8.9	9.2	9.1 9.15 0 1
10	8.18	4.8	3	8.35 0 1	8.55	8.45	10 10	10	8.18	4.8	7 8.55 2 1
11	9.1	9.4	9.0	9.20 22		9.20	a	11	8.0	8.3	8.3 8.30 0 0
12	9.1	9.4	9.1	9.25 21	9.60	9.42	17 18	12	9.2	9.5	9.5
13	8.9	9.2	9.1	9.15 0 1	9.50	9.32	17 18	13	6.1	6.4	6.4
14	t.p.							14	6.1	6.4	6.4

B-49	Mean	
8.75	8.78	02 03
8.75	8.78	02 03
8.60	8.65	05 05
8.80	8.90	10 10
9.15	9.15	00 00
8.55	8.55	00 00
8.45	8.38	08 01
7.5	7.50	0 0
6.4	6.40	0 0
6.5	6.45	0 1

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Scale R

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H 668

	Sc.1	Sc.2		B.49	Mean		
1	6.8	7.1	7.1	6.50	6.80	3	3
2	7.0	7.3	7.3	7.3	7.30	0	0
3	7.3	7.6	7.6	7.5	7.55	0	1
4	7.3	7.6	7.6	7.6	7.60	0	0
5	8.1	8.4	8.8	8.55	8.58	02	03
6	8.3	8.6	9.0	8.80	8.80	0	0
7	8.3	8.6	9.0	8.80	8.80	0	0
8	8.2	8.5	9.0	8.50	8.65	10	10
9	6.2	6.5	6.5	6.5	6.50	0	0
10	6.2	6.5	6.5	6.4	6.45	1	0
11	8.0	8.3	8.3	8.55	8.42	12	13
12	7.9	8.2	8.2	8.45	8.32	12	13

H 669

	Sc.1	Sc.2	Mean	B.42	Mean		
1	t.p						
2	t.p.						
3	7.0	7.3	7.3	6.75	7.02	28	31
4	7.0	7.3	7.3	6.80	7.05	25	25
5	8.1	8.4	8.7	8.55	8.21	8.65	8.60	05	05
6	8.4	8.7	9.0	8.85	1 2	9.00	8.92	07	08
7	8.3	8.6	9.0	8.80	2 2	9.00	8.90	10	10
8	8.1	8.4	8.2	8.30	1 1	8.50	8.40	10	10
9	7.1	7.4	7.4	7.4	7.40	0	0
10	t.p						
11	6.1	6.4	6.4	6.4	6.40	0	0
12	6.2	6.5	6.5	6.5	6.50	0	0

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H 670

	sc.1	sc.2		B.42 Mean	
1	7.1	7.4	7.4	7.4	7.40 00
2	7.1	7.4	7.4	7.4	7.40 00
3	7.1	7.4	7.4	7.4	7.40 00
4	8.18	47.0	8.70	3 3	8.65 8.68 02 03
5	~~fp~~				
6	9.39	69.3	9.45	21	9.60 9.52 01 08
7	9.39	69.3	9.45	21	9.65 9.50 15 15
8	9.29	59.3	9.40	11	9.55 9.48 08 01
9	9.49	99.5	9.60	11	9.65 9.62 02 03
10	6.1	6.4	6.4		6.5 6.45 0 1
11	6.1	6.4	6.4		6.6 6.50 1 1
12	6.3	6.6	6.6		6.6 6.60 00

H 671

	sc.1	sc.2		B.43 Mean.	
1	7.0	7.3	7.3	7.1	7.20 11
2	7.0	7.3	7.3	7.1	7.20 11
3	7.1	7.4	7.4	7.2	7.30 11
4	7.3	7.6	7.6	7.4	7.50 11
5	7.2	7.5	7.5	7.4	7.45 10
6	8.18	48.7	8.55	21	8.55 8.55 00 00
7	8.28	58.7	8.60	11	8.55 8.58 02 03
8	9.29	59.9	9.30	33	9.60 9.40 20 20
9	9.39	69.1	9.35	23	9.65 ~~9.50~~ 9.... ~~15 15~~ ~~18 18~~
10	9.29	59.1	9.30	22	9.60 9.45 15 15
11	9.29	59.1	9.30	22	9.65 9.48 18 17
12	~~12~~				

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10:35	H642		H644	
	pc.1	pc.2	pc.1	pc.2
1	8.2858.7	8.60 ⊥1	1 8.386 8.8	8.70 ⊥1
2	7.9 82	8.2	2 8.386 8.1	8.65 01
3	8.184 8.7	8.55 2 1	3 8.386 8.9	8.75 2 1
4	8.083 86	8.45 ⊥2	4 7.9 82	8.2
5	6.9 7.2	7.2	5 8.184 8.6	8.50 ⊥1
6	6.9 7.2	7.2	6 8.184 86	8.50 ⊥1
7	6.9 7.2	7.2	7 8.083 8.6	8.45 ⊥2
8	6.9 7.2	7.2	8 6.2 6.5	6.5
9	6.2 6.5	6.5	9 7.0 7.3	7.3
10	5.7 6.0 9.0	6.0	10 5.2 5.5	5.5
11	6.0 6.3	6.3	11 5.9 6.2	6.2
12	7.9 8.2	8.2		
13	8.184 8.7	8.55 2 1		
14	8.184 8.4	8.40 00		

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1913phae.proj..991L

Scale R. April 30, 1913 -

		N645		N646		
		pc.1	pc.2	pc.1	pc.2	Mean
two prisms	1	.		1 8.7	9.0	9.00 .00
"	2	.		2 8.7	9.0 9.1	9.05 .01
"	3	.		3 8.7	9.0 9.0	9.00 .00
"	4	.		4 8.3	8.6 8.7	8.65 .01
	5	8.2	8.7 8.60 ±1	5 8.2	8.5 8.7	8.60 ±1
	6	8.0	8.3 8.6 8.45 ±2	6 8.1	8.4 8.7	8.55 ±1
	7	8.1	8.4 8.7 8.55 ±1	7 7.0	7.3	7.3
	8	8.0	8.3 8.6 8.45 ±2	8 7.1	7.4	7.4
	9	8.2	8.5 8.7 8.60 ±1	9 6.9	7.2	7.2
	10	8.3	8.6 8.7 8.65 .01	10 6.2	6.5	6.5
	11	8.1	8.4 8.6 8.50 ±1	11 6.0	6.3	6.3

M 9 P

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Scale R. April 30, 1913.

	H669			H670		
	pc.1	pc.2	Mean	pc.1	pc.2	Mean.
1	t.p.			7.1	7.4	7.4
2	"			7.1	7.4	7.4
3	6.4 6.1	6.8	7.1 6.75 ±3	7.1	7.4	7.4
4	6.5 6.2	6.8	7.1 6.80 3	8.3	8.6 8.7	8.65 01
5	8.2	8.5 8.8	8.65 ±2	t.p.		
6	8.7	9.0 9.0	9.00 00	9.2	9.5 9.7	9.60 ±1
7	8.7 9.0	8.7 9.0	9.00 00	9.3	9.6 9.7	9.65 01
8	8.1	8.4 8.6	8.50 ±1	9.2	9.5 9.6	9.55 ±0
9	7.1	7.4	7.4	9.3	9.6 9.7	9.65 01
10	t.p.			6.2	6.5	6.5
11	6.1	6.4	6.4	6.3	6.6	6.6
12	6.2	6.5	6.5	6.3	6.6	6.6

poor image

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Scale R. April 30, 1913 –

N 671

	Rc. 1	Rc. 2	Mean
1	6.8	7.1	7.1
2	6.8	7.1	7.1
3	6.9	7.2	7.2
4	7.1	7.4	7.4
5	7.1	7.4	7.4
6	8.1	8.4	8.7	8.55 ± 1
7	8.2	8.5	8.8	8.55 ± 1
8	9.2	9.5	9.7	9.60 ± 1
9	9.3	9.6	9.7	9.650 ± 1
10	9.3	9.6	9.6	9.600
11	9.3	9.6	9.7	9.650 ± 1

N 648

	Rc 1	Rc 2	Mean.
1	6.1	6.4	6.4
2	6.1	6.4	6.4
3	t.p.		
4	7.2	7.5	7.5
5	8.3	8.6	9.1	8.85 ± 3
6	8.3	8.6	9.1	8.85 ± 3
7	8.5	8.8	9.2	9.00 ± 2
8	8.5	8.8	9.1	8.95 ± 1
9	7.2	7.5	7.5
10	8.0	8.3	8.300
11	8.1	8.4	8.6	8.50 ± 1

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Scale R

April 30, 1913 –

H649

	sc.1	sc.2	Mean
1	8.0	8.3	8.30 00
2	8.0	8.3	8.30 00
3	8.1	8.6	8.50 ±1
4	9.0	9.3	9.50 ±2
5	9.2	9.8	9.65 ±2
6	9.3	10.0	9.80 ±2
7	9.2	9.7	9.60 ±1
8	7.9	8.2	8.2
9	~~8~~ 6	7.8	8.1
10	~~5~~ 6	6.5	6.5
11	6.9	7.2	7.2

H653.

	sc.1	sc.2	Mean
1	6.1	6.4	6.4
2	6.1	6.4	6.4
3	7.8	8.1	8.1
4	7.8	8.0	8.0
5	9.1	9.4	9.55 ±1
6	8.8 8.5	9.1	8.80 ±3
7	9.0	9.3	9.20 10
8	8.7	9.0	9.05 01
9	8.1	8.4	8.55 ±1
10	8.2	8.5	8.60 ±1
11	8.3	8.6	8.75 ±1

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Scale R

April 30, 1913 -

7:30

H 655 −

	sc.1	sc.2	Mean	
1	8.1	8.4	8.1	8.55 ± 1
2	8.1	8.4	8.1	8.55 ± 1
3	8.3	8.6	8.8	8.70 ± 1
4	9.4	9.1	9.1	9.00 00
5	9.2	9.5	9.8	9.65 ± 2
6	9.2	9.5	9.1	9.60 ± 1
7	9.0	9.3	9.2	9.25 10
8	t.p.			
9	t.p.			
10	t.p.			
11	6.1	6.4	6.4	

H 658

	~~+80~~ sc.1	sc.1		
1	8.0	8.3	8.6	8.45 ± 2
2	8.6 (8.9 8.6)	8.3	9.0	8.83 ± 2
3	8.4	8.4	9.0	8.85 ± 2
4	8.2	8.5	8.7	8.60 ± 1
5	7.2	7.5		7.5
6	7.1	7.4		7.4
7	6.1	6.4		6.4
8	6.2	6.5		6.5
9	8.2	8.5	8.7	8.60 ± 1
10	8.0	8.3	8.6	8.45 ± 2
11	8.2	8.5	8.7	8.60 ± 1

MOR

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1913phae.proj..991L

Scale R

April 30, 1913.

	H660			H661		
	pc 1	pc 2		pc 1	pc V	Mean
1	8.0	8.3 8.6	8.45 ±2	8.2	8.5 8.6	8.55 ±0
2	8.1	8.4 8.7	8.55 ±1	8.3	8.6 8.8	8.70 ±1
3	8.2	8.5 8.8	8.65 ±2	8.2	8.5 8.7	8.60 ±1
4	6.0	6.3	6.3	8.0	8.3 8.6	8.45 ±2
5	6.1	6.4	6.4	7.1	7.4	7.4
6	7.1	7.4	7.4	7.1	7.4	7.4
7	7.1	7.4	7.4	6.0	6.3	6.3
8	8.3	8.6 9.0	8.80 ±2	6.1	6.4	6.4
9	8.3	8.6 9.1	8.85 ±3	7.1	7.4	7.4
10	8.3	8.6 8.9	8.75 ±1	7.0	7.3	7.3
11	8.2	8.5 8.7	8.60 ±1	7.2	7.5	7.5

MCR

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1913phae.proj..991L

Scale R

April 30, 1913 –

	☌ 663			☌ 664		
	pc.1	pc.2	Mean	pc.1	pc.2	Mean
1	7.1	7.4	7.4	8.1 8.4	8.8	8.60 ± 2
2	7.1	7.4	7.4	8.1	8.4 8.8	8.60 ± 2
3	7.1	7.4	7.4	8.2 8.5	9.0	8.75 ± 3
4	6.2	6.5	6.5	8.0	8.3 8.8	8.55 ± 2
5	6.1	6.4	6.4	7.1	7.4	7.4
6	7.2	7.5	7.5	7.2	7.5	7.5
7	7.1	7.4	7.4	6.0	6.3	6.3
8	8.1	8.4 8.7	8.55 ± 1	6.1	6.4	6.4
9	8.1	8.4 8.7	8.55 ± 1	7.8 8.1, 8.2 8.9	8.15	8.15
10	8.1	8.4 8.7	8.55 ± 1	8.1	8.4 8.7	8.50 ± 1
11	8.1	8.4 8.7	8.55 ± 1	8.0	8.3 8.6	8.45 ± 2

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1913phae.proj..991L

Scale R

April 30, 1913 -

)(665

	Sc. 1	Sc. 2	Mean
1	~~6.2~~ 6.0	6.5	6.5
2	~~7.1~~ 6.1	6.4	6.4
3	~~8.1~~ 7.1	7.4	7.4
4	7.2	7.5	7.5
5	7.2	7.5	7.5
6	7.2	7.5	7.5
7	8.2 8.5	8.3 8.6	8.77 ± 24
8	8.9	9.2 9.3	9.25 01
9	8.9	9.2 9.3	9.25 01
10	9.0	9.3 9.7	9.50 ± 2
11	t.p.		
12	t.p.		
13	t.p.		

means 11, 12, 13 by micrometer

)(666

	Sc. 1	Sc. 2	Mean
1	8.3	8.6 8.9	8.75 ± 21
2	8.2	8.5 9.0	8.75 ± 32
3	~~8.9~~ 8.4	8.7 9.~~7~~3	9.00 ± 3
4	8.1	8.4 9.0	8.70 ± 3
5	7.2	7.5 ~~8~~	7.5
6	7.1	7.4	7.4
7	6.1	6.4	6.4
8	6.3	6.6	6.6
9	t.p.		
10	8.1	8.4 8.7	8.55 ± 1
11	t.p.		
12	9.2	9.5 9.7	9.60 ± 1
13	9.1	9.4 9.6	9.50 ± 1
14	t.p.		

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1913phao.proj..991L

Scale R

April 30, 1913

H 667

	Sc.1	Sc.2	Mean	
1	t.p.			
2	8.2	8.5	8.35	±2
3	8.2	8.5	8.35	±2
4	t.p.			
5	t.p.			
6	t.p.			
7	8.1	8.4	8.25	±2
8	8.3	8.6	8.45	±2
9	8.8	9.2	9.00	±2
10	8.1	8.4	8.25	±2
11	8.0	8.3	8.15	±2
12	7.2	7.5	7.35	
13	6.1	6.4	6.25	
14	6.2	6.5	6.35	

H 668

	Sc.1	Sc.2	Mean	
1	6.2 (6.5)	6.2 (6.5)	6.35	
2	7.1	7.3	7.2	
3	7.2	7.5	7.35	
4	7.3	7.6	7.45	
5	8.0	8.3	8.15	±2
6	8.3	8.6	8.45	±2
7	8.3	8.6	8.45	±2
8	8.1	8.4	8.25	±2
9	~~6.~~ 6.2	6.5	6.35	
10	6.1	6.4	6.25	
11	8.2	8.5	8.35	±2
12	8.0	8.3	8.15	±2

2nd Measures not always accordant with 1st measures of H plates - 1st measures were made on dark, rainy day. 2nd measures on clear bright day.

M 0.12

3.15

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1913phae.proj..991L

Scale R

May 5, 1913

11:55

MC 677

P.56

	pc.1	pc.2	Mean		Mean		
1	9.7	10.0	10.2	10.10 ⊥1	10.10	10.10	00 00
2	9.7	10.0	10.1	10.05 01	10.05	10.05	00 00
3	7.8	8.1	·	8.1	8.1	8.10	0 0
4	9.2	9.5	9.7	9.60 ⊥1	9.60	9.60	00 00
5	7.7	8.0	·	8.0	8.0	8.0	00 0
6	9.1	9.4	9.3	9.35 01	9.35	9.35	00 00
7	8.9	9.2	9.2	9.20 00	9.20	9.20	00 00
8	9.0	9.3	9.3	9.30 00	9.25	9.28	02 03
9	9.6	9.9	10.2	10.05 ⊥2	10.20	10.12	01 08
10	9.7	10.0	10.1	10.05 01	10.15	10.10	05 05
11	9.6	9.9	10.1	10.00 ⊥1	10.15	10.08	08 07
12	9.8	10.1	10.2	10.15 01	10.05	10.10	05 05

MC 673.

P.50

	pc.1	pc.2	Mean		Mean	
1	6.9	7.2	7.2	7.0	7.10	11
2	6.9	7.2	7.2	7.0	7.10	11
3	8.1	8.4	8.3	8.35 01	8.1	8.22 13 12
4	7.9	8.2	·	8.2	8.2	8.20 0 0
5	8.2	8.5	8.9	8.70 ± 2	8.65	8.68 02 03
6	8.4	8.8	9.1	8.90 ± 2	9.0	8.98 08 07
7	8.4	8.8	9.1	8.90 ± 2	9.10	9.00 10 10
8	8.4	8.8	9.1	8.90 ± 2	8.97	8.94 04 03
9	8.4	8.8	9.2	8.95 ± 3	8.60	8.78 17 18
10	8.3	8.6	9.2	8.90 ± 3	8.65	8.78 12 13
11	8.3	8.6	9.0	8.80 ± 2	8.70	8.75 05 05

MOR

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1913phae.proj..991L

Scale R

May 5, 1913 —

No 614

H 6·7 5 —

	Sc. 1	Sc. 2	Mean	P55	Mean			Sc. 1	Sc. 2	Mean	P55	Mean		
1	8.2	8.5	8.7	8.60	11	8.55	8.58	02	03	1	8.1	8.4	8.3	8.35	01	8.1	8.22	18	12
2	8.3	8.6	8.7	8.65	01	8.60	8.62	03	02	2	8.0	8.3	8.3	8.30	00	8.30	8.30	00	00
3	8.4	8.7	8.8	8.75	10	8.65	8.70	05	05	3	9.1	9.4	9.7	9.55	21	9.60	9.58	03	02
4	8.4	8.6	8.7	8.65	01	8.65	8.65	00	00	4	double.								
5	8.3	8.6	8.7	8.65	01	8.60	8.62	03	02	5	9.7	10.0	10.3	10.15	21	10.00	10.08	07	08
6	8.7	9.0	9.0	9.00	00	8.80	8.90	10	10	6	9.7	10.0	10.3	10.15	21	10.05	10.10	05	05
7	8.1	8.4	8.7	8.55	21	8.70	8.62	07	08	7	9.7	10.0	10.7	10.35	43	9.95	10.15	20	20
8	8.0	8.3	8.3	8.30	00	8.0	8.15	15	15	8	10.0	10.3	10.8	10.55	32	10.20	10.38	17	18
9	7.2	7.5		7.5		7.6	7.55	10		9	9.3	9.6	10.1	9.85	23	9.60	9.72	13	12
10	6.3	6.6		6.6		6.6	6.60	00		10	9.3	9.6	10.1	9.85	23	9.55	9.70	15	15
11	6.4	6.7		6.7		6.5	6.60	11		11	8.2	8.5	9.1	8.80	33	8.60	8.70	10	10
										12	8.5	8.8	9.4	9.4	9.20	42	8.65	8.92	28	27

M.O.R.

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1913phae.proj..991L

Scale R. May 5, 1913.

H 678 H 676

	sc.1	sc.2	Mean	P.54	Mean		sc.1	sc.2	Mean	P.54	Mean
1	9.19	9.7	9.55	21	9.15	9.35	20	20	1 8.18	8.7	8.55 21	8.35	8.45	10	10
2	9.29	5 9.7	9.60	11	9.15	9.38	22	23	2 8.7	9.0	9.0	9.00	00	8.50	8.75	25	25
3	10.1	10.4	11.1	10.75	43	10.10	10.42	33	32	3 t.p.							
4	10.1	10.4	11.0	10.70	33	10.05	10.40 (38)	32	33	4 t.p.							
5	10.1	10.4	10.9	10.65	23	10.10	10.38	27	28	5 9.7	10.0	9.6 (10)	10.30	33	9.85	10.08	22	23
6	9.0 (10)	10.3	10.8	10.55	32	9.90	10.22	33	32	6 9.7	10.0	9.10.2	10.10	11	9.90	10.00	10	10
7	9.7	10.0	10.3	10.15	21	9.85	10.00	15	15	7 9.6	9.9	10.3	10.10	22	9.80	9.95	15	15
8	10.0	10.3	10.7	10.50	22	10.10	10.30	20	21	8 9.7	10.0	10.7	10.35	43	9.90	10.12	23	22
9	8.19 (8.8+8)	9.1	9.6	8.50	11	8.62	8.56	06	06	9 (8) 9.9	9.2	9.2	9.20	00	8.72	8.96	24	24
10	7.9 (8.8+8)	9.1	8.7	8.55	21	8.68	8.62	07	06	10 8.1	9.4	9.3	9.35	01	9.65	9.50	15	15
11	8.2	8.5	8.7	8.60	11	8.50	8.55	05	05	11 8.1	8.4	9.0	8.70	33	8.35	8.52	18	17
12	8.1	8.4	8.7	8.55	21	8.57	8.56	01	01	12 8.3	8.6	8.9	8.75	21	8.40	8.58	17	18

Error of a unit.
Changed per order of F.S.
May 8, 1913.

MOR.

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1913phae.proj..991L

Scale R

9:55

May 8, 1913.

H 681

	pc.1	pc.2		P.57	Mean		
1	10.0	10.3	10.8	10.55	32	10.75	10.65	10	10
2	9.8	10.1	10.7	10.40	33	10.60	10.50	10	10
3	10.0	10.3	10.8	10.55	32	10.80	10.72	13	12
4	9.8	10.1	10.7	10.40	33	10.75	10.58	18	17
5	9.19	4	9.4	9.40	00	9.50	9.45	05	05
6	9.09	3	9.3	9.30	00	9.55	9.42	12	13
7	*	8.2	8.5	8.35	21	8.50	8.42	01	08
8		8.3	8.6	8.45	12	8.50	8.48	03	03
9	10.0	10.3	10.7	10.50	22	10.85	10.68	18	17
10	10.0	10.3	9.8	10.55	32	10.90	10.72	17	18
11	10.0	10.3	9.7	10.50	22	10.95	10.72	22	23

H 682

	pc.1	pc.2		P.57	Mean		
1	10.0	10.3	10.7	10.50	22	10.55	10.52	02	03
2	10.0	10.3	10.8	10.55	32	10.60	10.58	03	02
3	10.0	10.3	10.8	10.55	32	10.65	10.60	05	05
4	8.1	8.4	8.7	8.55	21	8.65	8.60	05	05
5	8.3	8.6	8.7	8.65	01	8.70	8.70	00	05
6	9.4	9.7	10.1	9.90	22	10.80	10.05	15	15
7	9.2	9.5	9.8	9.65	12	9.85	9.75	10	10
8	10.0	10.3	11.0	10.65	34	10.80	10.72	01	08
9	10.0	10.3	11.0	10.65	34	10.85	10.75	10	10
10	10.1	10.4	11.0	10.70	33	10.85	10.78	08	07
11	10.0	10.3	10.7	10.50	22	10.65	10.58	08	07

Error of a unit.

May 8, 1913. Per. E.T.S.

M.O.R.

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1913phae.proj..991L

Scale R

May 8, 1913.

H 676

see P. 52

	Sc. 1	Sc. 2		
1	8.1	8.4	8.3	8.35 ± 0.1
2	8.2	8.5	8.5	8.50 ± 0.0
3	t.p.			
4	t.p.			
5	9.4	9.7	10.0	9.85 ± 1.2
6	9.4	9.7	10.1	9.90 ± 2.2
7	9.3	9.6	10.0	9.80 ± 2.2
8	9.4	9.7	10.1	9.90 ± 2.2
9	8.2 (8.5)	8.4 (8.9)	8.7	9.0 8.72 ± 0.03
10	8.3 (9)	9.6	8.7	9.65 ± 0.1
11	8.0	8.3	8.4	8.35 ± 1.0
12	8.2	8.5	8.3	8.40 ± 1.1

H 678

See P. 52

	Sc. 1	Sc. 2		
1	8.9	9.2	9.1	9.15 ± 0.1
2	8.9	9.2	9.1	9.15 ± 0.1
3	9.7	10.0	10.2	10.10 ± 1.1
4	9.7	10.0	10.1	10.05 ± 0.1
5	9.8	10.1	10.1	10.10 ± 0.0
6	9.7	10.0	9.8	9.90 ± 1.1
7	9.7	10.0	9.7	9.85 ± 2.1
8	9.8	10.1	10.1	10.10 ± 0.0
9	8.2 (8.5)	8.3 (8.6)	8.7	8.62 ± 0.11
10	8.3 (8.4)	8.3 (8.6)	8.7	8.8 8.68 ± 0.01 ± 0.12
11	8.1 (8.5)	8.1 (8.5)	8.7	8.50 ± 1.2
12	8.2 (8.5)	8.2 (8.5)	8.7	8.57 ± 1.1

MOR.

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Scale R

2:50

May 8, 1913.

H 675

	pc.1	pc.2	
1	7.8	8.1	8.1
2	8.0	8.3	8.30 00
3	9.2	9.5 9.7	9.60 ±1
4	double.		
5	9.6	9.9 10.1	10.00 ±1
6	9.7	10.0 10.1	10.05 01
7	9.5	9.8 10.3	9.95 ±1
8	9.8	10.1 10.3	10.20 ±1
9	9.2	9.5 9.7	9.60 ±1
10	9.2	9.5 9.6	9.55 ±0
11	8.2	8.5 8.7	8.60 ±1
12	8.3	8.6 8.9	8.65 01
13			
14			
15			

H 674

see P. 51

	pc.1	pc.2	
1	8.1	8.4 8.7	8.55 ±1
2	8.1	8.4 8.8	8.60 ±2
3	8.2	8.5 8.8	8.65 ±2
4	8.3	8.6 8.7	8.65 01
5	8.2	8.5 8.7	8.60 ±1
6	8.3	8.6 9.0	8.80 ±2
7	8.2	8.5 8.9	8.70 ±2
8	7.8	8.0	8.0
9	7.3	7.6	7.6
10	6.3	6.6	6.6
11	6.2	6.5	6.5

MCP

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Scale R. May 8, 1913.

H 673

See P. 50

	Sc. 1	Sc. 2	
1	6.7	7.0	7.0
2	6.7	7.0	7.0
3	7.8	8.1	8.1
4	7.9	8.2	8.2
5	8.1	8.4	8.3
6	8.7 (9.2)	8.1 (9.0)	9.0 9.0 1 ± 1
7	8.7 (9.0)	8.7 (9.0)	9.3 9.10 ± 12
8	8.7 (9.2)	6.7 (9.0)	8.1 8.9 ± 2 0 3
9	8.2	8.5	8.7 8.60 ± 1
10	8.2	8.5	8.8 8.6 5 ± 2 0
11	8.3	8.6	8.8 8.7 0 ± 1

H 677

See P. 50

	Sc. 1	Sc. 2	Mean
1	9.8	10.1	10.1 10.10 00
2	9.7	10.0	10.1 10.05 0 1
3	4.8	8.1	8.1
4	9.2	9 5	9.7 9 60 ± 1
5	7.7	8.0	8.0
6	9.1	9.4	9.3 9.35 0 1
7	8.9	9.2	9.2 9.20 00
8	8.9	9.2	9.3 9.25 01
9	9.9	10.2	9.2 10.20 00
10	9.8	10.1	10.2 10.15 ± 0
11	9.8	10.1	10.2 10.15 ± 0
12	9.7	10.0	10.1 10.05 01

M.O.R.

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Scale R.

May 8, 1913 -

	H 681				H 682			
	Cal	RC 2			RC 1	RC 2		
1	10.1	10.4	11.1	10.55 ± 3	10.0	10.3	10.8	10.55 ± 3.2
2	10.1	10.4	10.8	10.60 ± 2	10.1	10.4	10.8	10.60 ± 2
3	10.2	10.5	11.1	10.80 ± 3	10.1	10.4	10.9	10.65 ± 3
4	10.1	10.4	11.1	10.75 ± 3	8.3	8.6	8.7	8.65 ± 1
5	9.1	9.4	8.6	9.50 ± 1	8.3	8.6	8.9	8.75 ± 2
6	9.1	9.4	8.7	9.55 ± 1	9.7 (10.0)	9.7 (10.0)	10.6	10.20 ± 2.4
7	8.0	8.3	8.7	8.50 ± 2	9.8	9.6	10.1	9.85 ± 3
8	8.1	8.4	8.6	8.50 ± 1	10.3	10.6	11.0	10.80 ± 2
9	10.2	10.5	11.2	10.85 ± 4	10.3	10.6	11.1	10.85 ± 3
10	10.3	10.6	11.2	10.90 ± 3	10.3	10.6	11.1	10.85 ± 3
11	10.3	10.6	11.3	10.95 ± 3	10.1	10.4	10.9	10.65 ± 2.8

m.O.P.

3:28

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Sc. R

May 12, 1913

	H 678 Sc 1	Sc 2	1st	2nd	Mean			H 687 Sc 1	Sc 2	1st	2nd	Mean			H 687 2nd	Mean		
1	9.1	9.4	9.4	9.40	00	9.30	9.35	05	05	8.2	8.5	8.7	8.60	1	1	8.4	8.55	8.58	02	03
2	9.0	9.3	9.3	9.30	00	9.35	9.32	02	03	8.1	8.4	8.7	8.55	2	1	8.4	8.50	8.57	03	02
3	9.7	10.0	10.2	10.10	02	10.15	10.12	02	03	8.5	8.8	9.0	8.90	2	1	8.4	8.75	8.82	08	07
4	9.7	10.0	10.2	10.00	11	10.15	10.12	02	03	8.1	8.4	8.6	8.50	1	1	8.0	8.50	8.50	00	00
5	9.7	10.0	10.1	10.05	01	9.85	9.95	10	10	7.3	7.6		7.6			8.1	7.5	7.55		
6	9.6	9.9	10.1	10.00	11	9.85	9.92	08	07	7.1	7.4		7.4			8.1	7.5	7.45		
7	9.4	9.7	9.8	9.75	10	9.85	9.80	05	05	6.0	6.3		6.3			6.1	6.4	6.35		
8	9.9	10.2	10.3	10.25	01	10.10	10.18	07	08	6.2	6.5		6.5			6.2	6.5	6.50		
9	8.7	9.0	9.2	9.10	11	9.10	9.10	00	00	6.1	6.4		6.4			6.2	6.5	6.45		
10	8.7	9.0	9.2	9.10	11	9.15	9.12	02	03	6.2	6.5		6.5			6.2	6.6	6.55		
11	7.3	7.6		7.6		7.7	7.65			7.3	7.6		7.6			7.3	7.6	7.60		
12	7.4	7.7		7.7		7.8	7.75			8.0	8.3	8.6	8.45	1	2	7.3	8.2	8.32		
										7.2	7.5		7.5			7.3	7.5	7.50		

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Sc R

May 13, 1913

	H 684 Sc 1	Sc 2			Mean		H 678 Sc 1	Sc 2		
1	8.0	8.3	8.4	8.35	8.50	8.42	9.0	9.3	9.3	9.30
2	8.1	8.4	8.4	8.40	8.60	8.50	9.1	9.4	9.3	9.35
3	8.1	8.4	8.4	8.40	8.50	8.45	9.8	10.1	10.2	10.15
4	6.1	6.4		6.4	6.4	6.40	9.8	10.1	10.2	10.15
5	6.2	6.5		6.5	6.5	6.50	9.5	9.8	9.9	9.85
6	6.2	6.5		6.5	6.6	6.55	9.5	9.8	9.9	9.85
7	6.2	6.5		6.5	6.4	6.45	9.5	9.8	9.9	9.85
8	7.3	7.6		7.6	7.5	7.55	9.7	10.0	10.2	10.10
9	7.3	7.6		7.6	7.5	7.55	8.7	9.0	9.2	9.10
10	7.3	7.6		7.6	7.6	7.60	8.8	9.1	9.2	9.15
11	7.3	7.6		7.6	7.6	7.60	7.7	7.7		7.7
12	8.4	8.7	9.0	8.85	8.80	8.82	7.5	7.8		7.8
13	8.3	8.6	9.0	8.80	8.80	8.80				
14	8.7	9.2	9.3	9.25	9.20	9.22				
15	8.9	9.2	9.2	9.20	9.25	9.22				

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Sc R

May 13, 1913

	H 683 Sc 1		Sc 2		H 684 Sc 1		Sc 2		
1	8.1	84	87	8.55	8083		87	8.50	2 2
2	8.1	84	86	8.50	8.285		87	8.60	1 1
3	8.3	86	89	8.75	8.083		87	8.50	2 2
4	8.1	84	86	8.50	6.1	64		6.4	
5	7.2	75		7.5	6.2	65		6.5	
6	7.2	75		7.5	6.3	66		6.6	
7	6.1	64		6.4	6.1	64		6.4	
8	6.2	65		6.5	7.2	75		7.5	
9	6.2	65		6.5	7.2	75		7.5	
10	6.3	66		6.6	7.3	76		7.6	
11	7.3	76		7.6	7.3	76		7.6	
12	7.9	82		8.2	8.4	87	89	8.80	1 1
13	7.2	75		7.5	8.4	87	89	8.80	1 1
					8.9	92	92	9.20	0 0
					8.9	92	93	9.25	0 1

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Sc. R

May 13, 1813

	H 686 Sc 1	Sc 2		1st	2d	Mean	H 687 Sc 1	Sc 2		1st	2d	Mean
1	7.9	8.2		8.2	8.0	8.10	8.3	8.6	8.8	8.70	8.70	8.70
2	7.9	8.2		8.2	8.0	8.10	8.3	8.6	8.8	8.70	8.70	8.70
3	8.0	8.3	8.3	8.30	8.00	8.15	8.7	9.0	9.1	9.05	9.00	9.02
4	6.2	6.5		6.5	6.5	6.50	8.7	9.0	9.1	9.05	9.05	9.05
5	6.2	6.5		6.5	6.4	6.45	7.1	7.4		7.4	7.4	7.40
6	6.2	6.5		6.5	6.4	6.45	7.2	7.5		7.5	7.5	7.50
7	6.3	6.6		6.6	6.5	6.55	7.1	7.4		7.4	7.4	7.40
8	7.1	7.4		7.4	7.4	7.40	7.1	7.4		7.4	7.4	7.40
9	7.9	8.2		8.2	8.1	8.15	6.1	6.4		6.4	6.4	6.40
10	7.8	8.1		8.1	8.1	8.10	6.2	6.5		6.5	6.5	6.50
11	7.7	8.0 7.4		8.0 7.4	8.0	8.00	6.1	6.4		6.4	6.4	6.40
12	8.7	9.0	9.1	9.05	8.90	8.98	6.1	6.4		6.4	6.3	6.35
13	8.9	9.2	9.2	9.20	9.25	9.22	8.7	9.0	9.1	9.05	9.10	9.08
14	9.2	9.5	9.7	9.60	9.55	9.58	8.7	9.0	9.2	9.10	9.10	9.10
15	9.2	9.5	9.7	9.60	9.55	9.58	8.8	9.1	9.2	9.15	9.10	9.12
							8.8	9.1	9.2	9.15	9.10	9.12

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Sc. R

May 13, 1913

	H 688 Sc1	Sc2	1st m.	2d m.	Mean	H 685 Sc1	Sc2	1st	2d	Mean
1	8.3	8.6	8.7	8.65	8.75	8.70	8.0	8.3	8.3	8.30	8.45	8.38
2	8.2	8.5	8.7	8.60	8.65	8.62	8.0	8.3	8.3	8.30	8.60	8.45
3	8.2	8.5	8.7	8.60	8.65	8.62	8.3	8.6	8.7	8.65	8.85	8.75
4	8.7	9.0	9.2	9.10	9.15	9.12	8.3	8.6	8.7	8.65	8.80	8.72
5	8.7	9.0	9.1	9.05	9.10	9.08	7.2	7.5		7.5	7.6	7.55
6	8.2	8.5	8.7	8.60	8.65	8.62	7.2	7.5		7.5	7.6	7.55
7	++						7.3	7.6		7.6	7.5	7.55
8	++						7.3	7.6		7.6	7.5	7.55
9	7.2	7.5		7.5	7.6	7.55	6.3	6.6		6.6	6.5	6.55
10	7.1	7.4		7.4	7.6	7.50	6.2	6.5		6.5	6.5	6.50
11	7.1	7.4		7.4	7.5	7.45	6.3	6.6		6.6	6.4	6.50
12	7.2	7.5		7.5	7.5	7.50	6.3	6.6		6.6	6.4	6.50
13	6.2	6.5		6.5	6.5	6.50	7.2	7.5		7.5	7.5	7.50
14	6.1	6.4		6.4	6.5	6.45	7.3	7.6		7.6	7.6	7.60
15	6.1	6.4		6.4	6.4	6.40	7.3	7.6		7.6	7.8	7.70
16	6.2	6.5		6.5	6.5	6.50						

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Sc R

May 14, 1913

	H 686				H 687 Sc1	Sc2	
1	7.7	8.0		8.0	8.4 8.7	8.7	8.70
2	7.7	8.0		8.0	8.4 8.7	8.7	8.70
3	7.7	8.0		8.0	8.7 9.0	9.0	9.00
4	6.2	6.5		6.5	8.7 9.0	9.1	9.05
5	6.1	6.4		6.4	7.1 7.4		7.4
6	6.1	6.4		6.4	7.2 7.5		7.5
7	6.2	6.5		6.5	7.1 7.4		7.4
8	7.1	7.4		7.4	7.1 7.4		7.4
9	7.8	8.1		8.1	6.1 6.4		6.4
10	7.8	8.1		8.1	6.2 6.5		6.5
11	7.7	8.0		8.0	6.1 6.4		6.4
12	8.6	8.9	8.9	8.90	6.0 6.3		6.3
13	8.9	9.2	9.3	9.25	8.7 9.0	9.2	9.10
14	9.1	9.4	9.7	9.55	8.7 9.0	9.2	9.10
15	9.1	9.4	9.7	9.55	8.9 9.2	9.2	9.10
					8.9 9.2	9.3	9.10

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Sc R

May 14, 1913

	H 688 Sc 1	Sc 2		H 685 Sc 1	Sc 2	
1	8.4 8.7	8.8	8.75	8.0 8.3	8.6	8.45
2	8.3 8.6	8.7	8.65	8.2 8.5	8.7	8.60
3	8.3 8.6	8.7	8.65	8.4 8.7	9.0	8.85
4	8.8 9.1	9.2	9.15	8.4 8.7	8.9	8.80
5	8.7 9.0	9.2	9.10	7.3 7.6		7.6
6	8.3 8.6	8.7	8.65	7.3 7.6		7.6
7	t f.			7.2 7.5		7.5
8	t f.			7.2 7.5		7.5
9	7.3 7.6		7.6	6.2 6.5		6.5
10	7.3 7.6		7.6	6.2 6.5		6.5
11	7.2 7.5		7.5	6.1 6.4		6.4
12	7.2 7.5		7.5	6.1 6.4		6.4
13	6.2 6.5		6.5	7.2 7.5		7.5
14	6.2 6.5		6.5	7.3 7.6		7.6
15	6.1 6.4		6.4	7.5 7.8		7.8
16	6.2 6.5		6.5			

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Sc R

May 15, 1913

	#690 Sc 1	Sc 2		Mean		#691			Mean
1	8.9	9.2	9.2	9.20	9.30	9.0	9.3	9.3	9.30	9.40	9.35
2	9.0	9.3	9.4	9.35	9.30	9.0	9.3	9.3	9.30	9.40	9.35
3	8.9	9.2	9.2	9.20	9.45	9.2	9.5	9.7	9.60	9.60	9.60
4	9.2	9.5	9.7	9.60	9.60	t.p.					
5	7.3	7.6		7.6	7.4	7.3	7.6		7.6	7.6	7.60
6	t.p.					7.7	8.0		8.0	8.0	8.00
7	7.3	7.6		7.6	7.6	7.7	8.0		8.0	8.0	8.00
8	t.p.					8.1	8.4	8.6	8.50	8.40	8.45
9	6.3	6.6		6.6	6.5	6.0	6.3		6.3	6.4	6.35
10	6.3	6.6		6.6	6.5	6.1	6.4		6.4	6.4	6.40
11	6.2	6.5		6.5	6.4	6.1	6.4		6.4	6.3	6.35
12	6.2	6.5		6.5	6.6	6.0	6.3		6.3	6.3	6.30
13	6.2	6.5		6.5	6.5	7.3	7.6		7.6	7.6	7.60
14	7.7	8.0		8.0	8.2	7.3	7.6		7.6	7.6	7.60
15	7.3	7.6		7.6	7.5	7.3	7.6		7.6	7.7	7.65
16	7.3	7.6		7.6	7.4	7.7	8.0		8.0	8.2	8.10
17	7.3	7.6		7.6	7.5	9.1	9.4	9.6	9.50	9.30	9.40
18	9.1	9.4	9.6	9.50	9.60	9.1	9.4	9.6	9.50	9.30	9.40
19	t.p.					9.0	9.3	9.3	9.30	9.30	9.30
20	9.1	9.4	9.6	9.50	9.55	9.3	9.6	9.7	9.65	9.55	9.58
21	t.p.										

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Sc R

May 15, 1913

	H 692 Sc1	Sc2		Mean		H 693 Sc1	Sc2		Mean	
1	9.1	9.4	9.7	9.55	9.60	9.7	10.0	10.1	10.05	10.10
2	9.1	9.4	9.7	9.55	9.55	9.7	10.0	10.1	10.05	10.05
3	9.1	9.4	9.6	9.50	9.50	9.4	9.7	9.8	9.75	9.90
4	9.4	9.7	9.9	9.80	9.65	9.4	9.7	9.8	9.75	9.70
5	8.0	8.3	8.3	8.30	8.25	8.0	8.3	8.3	8.30	8.30
6	8.0	8.3	8.3	8.30	8.30	8.0	8.3	8.3	8.30	8.50
7	8.0	8.3	8.3	8.30	8.25	8.0	8.3	8.3	8.30	8.50
8	8.3	8.6	8.7	8.65	8.40	8.2	8.5	8.7	8.60	8.60
9	7.1	7.4		7.4	7.4	9.3	9.6	9.7	9.65	9.65
10	7.0	7.3		7.3	7.4	8.9	9.2	9.2	9.20	9.50
11	7.0	7.3		7.3	7.3	9.3	9.6	9.7	9.65	9.65
12	7.1	7.4		7.4	7.3	9.2	9.5	9.7	9.60	9.70
13	8.0	8.3	8.3	8.30	8.30	8.0	8.3	8.3	8.30	8.60
14	7.9	8.2		8.2	8.2	8.0	8.3	8.3	8.30	8.60
15	7.9	8.2	8.3	8.2	8.35	8.0	8.3	8.3	8.30	8.50
16	8.0	8.3	8.3	8.30	8.2	8.2	8.5	8.7	8.60	8.50
17	9.3	9.6	9.7	9.65	9.75	7.0	7.3		7.3	7.4
18	9.2	9.5	9.7	9.60	9.60	7.0	7.3		7.3	7.4
19	9.2	9.5	9.7	9.60	9.60	7.1	7.4		7.4	7.3
20	9.1	9.4	9.7	9.55	9.55	7.1	7.4		7.4	7.3

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1913phae.proj..991L

So. R

May 15, 1913

	#694 Sc1	Sc2		Mean			#695 Sc1	Sc2		Mean		
1	7.1	7.4		7.4	7.4	7.40	8.2	8.5	8.7	8.60	8.60	8.60
2	7.2	7.5		7.5	7.3	7.40	8.3	8.6	8.7	8.65	8.65	8.65
3	7.2	7.5		7.5	7.4	7.45	8.3	8.6	8.7	8.65	8.75	8.70
4	7.1	7.4		7.4	7.4	7.40	8.2	8.5	8.7	8.60	8.80	8.70
5	8.3	8.6	8.7	8.65	8.50	8.58	9.3	9.6	9.8	9 8.70	9.65	9.68
6	8.1	8.4	8.6	8.50	8.50	8.50	9.3	9.6	9.9	9.75	9.70	9.72
7	8.5	8.8	8.9	8.85	8.65	8.75	9.1	9.4	9.7	9.55	9.60	9.58
8	8.5	8.8	8.9	8.85	8.65	8.75	9.3	9.6	9.7	9.65	9.70	9.68
9	9.7	10.0	10.1	10.05	9.85	9.95	7.7	8.0		8.0	8.2	8.10
10	9.7	10.0	10.1	10.05	9.85	9.95	7.7	8.0		8.0	8.2	8.10
11	9.8	10.1	10.1	10.10	10.05	10.08	8.0	8.3	8.3	8.30	8.30	8.30
12	9.7	10.0	10.1	10.05	9.80	9.92	8.1	8.4	8.7	8.55	8.60	8.58
13	8.3	8.6	8.7	8.65	8.50	8.58	7.1	7.4		7.4	7.4	7.40
14	8.2	8.5	8.7	8.60	8.55	8.58	7.2	7.5		7.5	7.3	4 7.80
15	8.3	8.6	8.8	8.70	8.60	8.65	7.1	7.4		7.4	7.5	7.45
16	8.3	8.6	8.8	8.70	8.60	8.65	7.2	7.5		7.5	7.5	7.50

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1913phae.proj..991L

May 17, 1913

	H 690			H 691		
	Sol	Sol		Sol	Sol	
1	9.0 9.3	9.3	9.30	9.1 9.4	9.4	9.40
2	9.0 9.3	9.3	9.30	9.1 9.4	9.4	9.40
3	9.1 9.4	9.5	9.45	9.2 9.5	9.7	9.60
4	9.2 9.5	9.7	9.60	t.p.		
5	7.1 7.4		7.4	7.3 7.6		7.6
6	t.p.			7.7 8.0		8.0
7	7.3 7.6		7.6	7.7 8.0		8.0
8	t.p.			8.0 8.3	8.5	8.40
9	6.2 6.5		6.5	6.1 6.4		6.4
10	6.2 6.5		6.5	6.1 6.4		6.4
11	6.1 6.4		6.4	6.0 6.3		6.3
12	6.3 6.6		6.6	6.0 6.3		6.3
13	6.2 6.5		6.5	7.3 7.6		7.6
14	7.9 8.2		8.2	7.3 7.6		7.6
15	7.2 7.5		7.5	7.4 7.7		7.7
16	7.1 7.4		7.4	7.9 8.2		8.2
17	7.2 7.5		7.5	8.9 9.2	9.4	9.30
18	9.2 9.5	9.7	9.60	8.9 9.2	9.4	9.30
19	t.p.			9.0 9.3	9.3	9.30
20	9.2 9.5	9.6	9.55	9.1 9.4	9.7	9.55
21	t.p.					

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1913phae.proj..991L

May 17, 1913

	7H 692				7H 693			
	Sc1	Sc2			Sc1	Sc2		
1	9.2	9.5	9.7	9.60	9.8	10.1	10.1	10.10
2	9.1	9.4	9.7	9.55	9.7	10.0	10.1	10.05
3	9.1	9.4	9.6	9.50	9.5	9.8	10.0	9.90
4	9.3	9.6	9.7	9.65	9.3	9.6	9.8	9.70
5	7.9	8.2	8.3	8.25	8.0	8.3	8.3	8.30
6	8.0	8.3	8.3	8.30	8.1	8.4	8.6	8.50
7	7.9	8.2	8.3	8.25	8.1	8.4	8.6	8.50
8	8.1	8.4	8.4	8.40	8.2	8.5	8.7	8.60
9	7.1	7.4		7.4	9.3	9.6	9.7	9.65
10	7.1	7.4		7.4	9.1	9.4	9.6	9.50
11	7.0	7.3		7.3	9.3	9.6	9.7	9.65
12	7.0	7.3		7.3	9.3	9.6	9.8	9.70
13	8.0	8.3	8.3	8.30	8.2	8.5	8.7	8.60
14	7.9	8.2		8.2	8.2	8.5	8.7	8.60
15	8.0	8.3	8.4	8.35	8.1	8.4	8.6	8.50
16	7.9	8.2		8.2	8.1	8.4	8.6	8.50
17	9.4	9.7	9.8	9.75	7.1	7.4		7.4
18	9.2	9.5	9.7	9.60	7.1	7.4		7.4
19	9.2	9.5	9.7	9.60	7.0	7.3		7.3
20	9.1	9.4	9.7	9.55	7.0	7.3		7.3
~~21~~								

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1913phae.proj..991L

May 17, 1913

	#694 Sc1	Sc2		#695 Sc1	Sc2	
1	7.17	4	7.4	8.2 8.5	8.7	8.60
2	7.07	3	7.3	8.3 8.6	8.7	8.65
3	7.17	4	7.4	8.4 8.7	8.8	8.75
4	7.17	4	7.4	8.4 8.7	8.9	8.80
5	8.18	4 8.6	8.50	9.3 9.6	9.7	9.65
6	8.18	4 8.6	8.50	9.3 9.6	9.8	9.70
7	8.38	6 8.7	8.65	9.2 9.5	9.7	9.60
8	8.38	6 8.7	8.65	9.3 9.6	9.8	9.70
9	9.59	8 9.9	9.85	7.9 8.2		8.2
10	9.59	8 9.9	9.85	7.9 8.2		8.2
11	9.7	10.0 10.1	10.05	8.0 8.3	8.3	8.30
12	9.4	9.7 9.9	9.80	8.2 8.5	8.7	8.60
13	8.18	4 8.6	9.50	7.1 7.4		7.4
14	8.18	4 8.7	8.55	7.0 7.3		7.3
15	8.2 8	5 8.7	8.60	7.2 7.5		7.5
16	8.2 8	5 8.7	8.60	7.2 7.5		7.5

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1913phae.proj..991L

Sc W

May 19, 1913

	AC 13941 (Pole-L')						AC 13948 (Pole L')					
	Sc. 2		Curve	Magn.	AC-Ptm. White stars	Red			Curve	Magn.	AC-Ptm. White stars	Red
4h	6.9		-1.47	5.43		17	6.7		-1.32	5.38		12
2h	7.9		-1.13	6.77		22	7.6		-1.00	6.60		05
5	7.7	-1.22	-1.21	6.49	01		7.5	-1.02	-1.01	6.49	01	
6	8.1	-1.02	-1.06	7.04	04		7.9	-0.82	-0.89	7.01	07	
7	8.4	-1.01	-0.96	7.44	05		8.3	-0.91	-0.72	7.58	19 21	
9	9.1	-0.49	-0.67	8.43	18		8.9	-0.29	-0.43	8.47	14	
3h	8.7		-0.84	7.86		22	8.5		-0.64	7.86		22
4h	9.0		-0.71	8.29		08	8.8		-0.49	8.31		10
5h	9.7		-0.40	9.30		63	9.4		-0.16	9.24		57
+87° 15	8.7	-0.86	-0.84	7.86	02		8.5	-0.66	-0.64	7.86	02	
+87° 12	8.7		-0.84	7.86		32	8.6		-0.59	8.01		17
88 2	8.9		-0.76	8.14		04	8.8		-0.49	8.31		21
88 115	9.5	-0.62	-0.50	9.00	12		9.3	-0.42	-0.20	9.16	22	
88 105	9.1		-0.67	8.43		23	8.8		-0.49	8.31		11
88 90	9.7		-0.40	9.30		33	9.4		-0.16	9.24		27
88 86	9.1	-0.32	-0.67	8.43	35		8.8	-0.02	-0.49	8.31	47	
88 80	9.7	-0.78	-0.40	9.30	38		9.2	-0.28	-0.28	8.91	01	
					+58 -57 8)+1 +.00						+45 -68 8)-23 -.03	+165 -17 9)+148 +16
						+192 -32 9)+160 +.18						

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1913phae.proj..991L

Sc R

May 21, 1913

	Yf 696 Sc1	Sc2	1st Mean	2d	Mean		Yf 697 Sc1	Sc2	1st Mean	2d	Mean
1	5.3	5.6	5.6	5.5	5.55		4.2	4.5	4.5	4.4	4.45
2	5.3	5.6	5.6	5.5	5.55		4.3	4.6	4.6	4.4	4.50
3	5.7	6.0	6.0	5.7	5.85		4.2	4.5	4.5	4.4	4.45
4	5.7	6.0	6.0	5.7	5.85		8.1	8.4	8.6	8.50	8.55	8.52
5	6.9	7.2	7.2	7.2	7.20		8.1	8.4	8.6	8.50	8.60	8.55
6	7.0	7.3	7.3	7.3	7.30		8.1	8.4	8.7	8.55	8.50	8.52
7	6.9	7.2	7.2	7.2	7.20		7.9	8.2	8.2	8.2	8.20
8	7.0	7.3	7.3	7.2	7.25		6.4	6.7	6.7	6.6	6.65
9	8.2	8.5	8.7	8.60	8.65	8.62 Poor	6.4	6.7	6.7	6.6	6.65
10	7.9	8.2	8.2	8.2	8.20		6.7	7.0	7.0	7.0	7.00
11	7.9	8.2	8.2	8.3	8.25	Poor	6.4	6.7	6.7	7.0	6.85
12	7.9	8.2	8.2	8.2	8.20		5.3	5.6	5.6	5.5	5.55
13	4.1	4.4	4.4	4.3	4.35		5.2	5.5	5.5	5.4	5.45
14	4.3	4.6	4.6	4.5	4.55		5.3	5.6	5.6	5.5	5.55
15	4.3	4.6	4.6	4.5	4.56		5.3	5.6	5.6	5.5	5.55

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1913phae.proj..991L

May 21, 1913

	H698 Sc1	Sc2	Mean	H699 Sc1	Sc2	Mean
1	6.3	6.6	6.55	7.3	7.6	7.60
2	6.2	6.5	6.50	7.2	7.5	7.50
3	6.2	6.5	6.55	7.3	7.6	7.60
4	6.2	6.5	6.55	8.5	8.8 9.0	8.88
5	7.2	7.5	7.50	8.2	8.5 8.7	8.62
6	7.3	7.6	7.50	8.2	8.5 8.7	8.60
7	7.3	7.6	7.55	8.2	8.5 8.6	8.58
8	7.3	7.6	7.50	7.2	7.5	7.50
9	9.2	9.5 9.7	9.50	7.1	7.4	7.40
10	8.7 3	8.6 8.7	8.65	7.2	7.5	7.50
11	8.7 3	8.6 8.7	8.65	7.1	7.4	7.45
12	8.7 3	8.6 8.7	8.65	6.1	6.4	6.40
13	7.4	7.7	7.65	6.0	6.3	6.30
14	7.4	7.7	7.60	6.0	6.3	6.25
15	7.5	7.8	7.70	6.1	6.4	6.40

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1913phae.proj..991L

Sc R

May 21, 1913

	H 70 Sc1	Sc2	1st. Measure.	2d "	Mean.	H 701 Sc1	Sc2	1st. Measure.	2d "	Mean.
1	5.2	5.5	5.5	5.5	5.50	7.2	7.5	7.5	7.4	7.45
2	5.2	5.5	5.5	5.5	5.50	7.3	7.6	7.6	7.5	7.55
3	5.2	5.5	5.5	5.5	5.50	7.3	7.6	7.6	7.5	7.55
4	5.3	5.8	5.8	5.6	5.70	8.3	8.6	8.7	8.65	8.65	8.65
5	6.4	6.7	6.7	6.6	6.65	8.3	8.6	8.7	8.65	8.60	8.62
6	6.2	6.5	6.5	6.6	6.55	8.2	8.5	8.7	8.60	8.60	8.60
7	6.4	6.7	6.7	6.9	6.80	8.3	8.6	8.7	8.65	8.60	8.62
8	6.4	6.7	6.7	6.9	6.80	7.4	7.7		7.7	7.6	7.65
9	8.3	8.6	8.7	8.65	8.60	8.62	7.3	7.6		7.6	7.6	7.60
10	8.1	8.4	8.7	8.55	8.50	8.52	7.4	7.7		7.7	7.7	7.70
11	8.3	8.6	8.7	8.65	8.60	8.62	7.4	7.7		7.7	7.5	7.60
12	8.2	8.5	8.7	8.60	8.60	8.60	6.3	6.6		6.6	6.5	6.55
13	7.3	7.6		7.6	7.6	7.60	6.2	6.5		6.5	6.5	6.50
14	7.3	7.6		7.6	7.5	7.55	6.1	6.4		6.4	6.4	6.40
15	7.2	7.5		7.5	7.6	7.55	6.1	6.4		6.4	6.4	6.40

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1913phae.proj..991L

10.50

Sc R

May 21, 1913

	H 702 Sc 1	Sc 2	1st Mean	2d Mean	Mean	H 703 Sc 1	Sc 2	1st Mean	2d Mean	Mean
1	5.2	5.5	5.5	5.5	5.50	7.2	7.5	7.5	7.5 7.6	7.55
2	5.1	5.4	5.4	5.4	5.40	7.3	7.6	7.6	7.6 7.5	7.55
3	5.2	5.5	5.5	5.5	5.50	7.3	7.6	7.6	X 7.6	7.60
4	5.2	5.5	5.5	5.5	5.50	8.1	8.4 8.6	8.50	8.5?	8.52 ?
5	7.0	7.3	7.3	7.2	7.25	7.3	7.6	7.6	7.5?	7.58 ?
6	7.0	7.3	7.3	7.2	7.25	7.3	7.6	7.6	7.6	7.60
7	7.2	7.5	7.5	7.4	7.45	7.3	7.6	7.6	7.5	7.55
8	7.2	7.5	7.5	7.4	7.45	wk. unit	7 1 8.3 8.6	7.6	7 6.4 ?	7.50 ?
9	9.0	9.3	9.30	9.20	9.25	" "	7 7.3 8.0 8.6	7.3	7.4 ?	7.35 ?
10	8.3	8.6 8.7	8.65	8.60	8.62		7.2 7.5	7.5	7.4	7.45
11	8.3	8.6 8.7	8.65	8.65	8.65		6.3 6.6	6.6	6.6	6.60
12	8.3	8.6 8.7	8.65	8.50	8.58		5.2 5.5	5.5	5.6	5.55
13	7.2	7.5	7.5	7.5	7.50		5.3 5.6	5.6	5.6	5.60
14	7.3	7.6	7.6	7.5	7.55		6.3 6.6	6.6	6.4	6.50
15	7.3	7.6	7.6	7.5	7.55		6.2 6.5	6.5	6.4	6.45

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1913phae.proj..991L

S. R

May 22, 1913.

	H 704 Sc. 1	Sc. 2	8.85 1st ½ m	2d ½ m	Mean	H 705 Sc. 1	Sc. 2		8.84 1st ½ m	2d ½ m	Mean
1	6.1	6.4		6.4	6.4	6.40	7.1	7.4		7.4	7.4	7.40
2	6.2	6.5		6.5	6.4	6.45	7.1	7.4		7.4	7.3	7.35
3	6.0	6.3		6.3	6.3	6.30	7.2	7.5		7.5	7.4	7.45
4	6.0	6.3		6.3	6.3	6.30	10.0	10.3	10.3	10.30	10.05	10.18
5	7.2	7.5		7.5	7.4	7.45	9.9	10.2	10.3	10.25	9.95	10.10
6	7.1	7.4		7.4	7.4	7.40	9.7	10.0	10.0	10.00	9.95	9.98
7	7.2	7.5		7.5	7.5	7.50	9.0	9.3	10.0	9.80	9.65	9.72
8	7.1	7.4		7.4	7.5	7.45	8.1	8.4	8.7	8.70	8.55	8.62
9	9.0	9.3	9.3	9.30	9.45	9.38	8.1	8.4	8.7	8.55	8.50	8.52
10	8.8	9.1	8.9	9.00	8.80	8.90	8.2	8.5	8.6	8.55	8.65	8.60
11	8.2	8.5	8.9	8.60	8.55	8.58	8.1	8.4	8.6	8.50	8.50	8.50
12	8.2	8.5	8.9	8.60	8.3	8.45	7.1	7.4		7.4	7.4	7.40
13	6.3	6.6		6.6	6.6	6.60	7.1	7.4		7.4	7.4	7.40
14	6.3	6.6		6.6	6.5	6.55	7.0	7.3		7.8	7.4	7.35
15	6.7	7.0		7.0	6.6	6.80	6.8	7.1		7.1	7.3	7.20
16	6.3	6.6		6.6	6.4	6.50						
17	6.2	6.5		6.5	6.4	6.45						
18	6.1	6.4		6.4	6.5	6.45						

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1913phae.proj..991L

Sc R

May 22, 1913.

	H 706					H 707				
	Sc.1	Sc.2	1st	2d		Sc.1	Sc.2	1st	2d	
1	5.3	5.6	5.6	5.6	5.60	7.3	7.6	7.6	7.6	7.60
2	5.4	5.7	5.7	5.5	5.60	7.4	7.7	7.7	7.6	7.65
3	5.4	5.7	5.7	5.5	5.60	7.4	7.7	7.7	7.7	7.70
4	7.2	7.5	7.5	7.3	7.40	6.2	6.5	6.5	6.6	6.55
5	7.1	7.4	7.4	7.2	7.30	6.2	6.5	6.5	6.5	6.50
6	7.1	7.4	7.4	7.2	7.30	6.3	6.6	6.6	6.6	6.60
7	7.2	7.5	7.5	7.3	7.40	6.2	6.5	6.5	6.6	6.55
8	8.2	8.5	8.7	8.60	8.65	8.62	7.3	7.6	7.6	7.5	7.55
9	8.1	8.4	8.7	8.55	8.50	8.52	7.3	7.6	7.6	7.5	7.55
10	8.1	8.4	8.7	8.55	8.2	8.38	8.0	8.3	8.6	8.3	8.45
11	8.0	8.3		8.3 5	8.4	8.35	7.1	7.4	7.7	7.5	7.60
12	6.3	6.6		6.6 7 5	6.4	6.50	9.1	9.4	9.7	9.70 55	9.55	9.55
13	6.3	6.6		6.6 7 6	6.6	6.60	9.1	9.4	9.7	9.55	9.40	9.48
14	6.3	6.6		6.6 7 5	6.6	6.60	8.7	9.0	9.1	9.05	9.15	9.12
							8.7	9.0	9.1	9.05	9.00	9.02

W. C. W.

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1913phae.proj..991L

ScR

May 22. 1913.

	#708 Sc.1	Sc.2	1st. (B83)	2d.	Mean.	#709 Sc.1	Sc.2	1st. (B82)	2d.	Mean.
1	9.1	9.4	9.7	9.55	9.60	9.58	J.P.		–	–	
2	9.0	9.3	9.3	9.30	9.50	9.40	J.P.		–	–	
3	9.0	9.3	9.3	9.30	9.55	9.42	J.P.		–	–	
4	9.1	9.4	9.7	9.55	9.60	9.58	7.0	7.3	7.3	7.3	7.30
5	7.3	7.6		7.6	7.6	7.60	7.0	7.3	7.3	7.4	7.35
6	7.4	7.7		7.7	7.6	7.65	7.1	7.4	7.4	7.5	7.45
7	7.4	7.7		7.7	7.7	7.70	7.1	7.4	7.4	7.5	7.45
8	7.5	7.8		7.8	7.6	7.65	8.0	8.3	8.3	8.30	8.55	8.42
9	6.3	6.6		6.6	6.4	6.50	8.0	8.3		8.3	8.55	8.42
10	6.3	6.6		6.6	6.5	6.55	8.1	8.4	8.7	8.55	8.65	8.60
11	6.3	6.5		6.5	6.6	6.55	8.1	8.4	8.7	8.55	8.55	8.55
12	6.3	6.6		6.6	6.6	6.60	9.4	9.7	9.7	9.70	9.85	9.78
13	7.7	8.0		8.0	7.6	7.80	9.3	9.6	9.7	9.65	9.65	9.65
14	7.8	8.1		8.1	8.1	8.10	9.0	9.3	9.3	9.30	9.60	9.45
15	7.8	8.1		8.1	8.1	8.10	9.1	9.4	9.7	9.55	9.60	9.58

First 3 images large + hazy – not comp. with scale.

11.25

W. C. W.

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1913phae.proj..991L

Sc. R

May 28, 1913

	H 702 Sc 1	Sc 2		H 701 Sc 1	Sc 2	
1	5.2	5.5	5.5	7.1	7.4	7.4
2	5.1	5.4	5.4	7.2	7.5	7.5
3	5.2	5.5	5.5	7.2	7.5	7.5
4	5.2	5.5	5.5	8.3	8.6	8.7 8.65
5	6.9	7.2	7.2	8.2	8.5	8.7 8.60
6	6.9	7.2	7.2	8.2	8.5	8.7 8.60
7	7.1	7.4	7.4	8.2	8.5	8.7 8.60
8	7.1	7.4	7.4	7.3	7.6	7.6
9	8.9	9.2	9.2 9.20	7.3	7.6	7.6
10	8.2	8.5	8.7 8.60	7.4	7.7	7.7
11	8.3	8.6	8.7 8.65	7.2	7.5	7.5
12	8.1	8.4	8.6 8.50	6.2	6.5	6.5
13	7.2	7.5	7.5	6.2	6.5	6.5
14	7.2	7.5	7.5	6.1	6.4	6.4
15	7.2	7.5	7.5	6.1	6.4	6.4

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1913phae.proj..991L

Sc R

May 22, 1913.

	If Tau Sc1	Sc2		H 699 Sc1	Sc2	
1	5.2	5.5	5.5	7.3		7.6
2	5.2	5.5	5.5	7.2		7.5
3	5.2	5.5	5.5	7.3		7.6
4	5.3	5.6	5.6	8.5	8.8	8.65
5	6.3	6.6	6.6	8.3	8.6	8.65
6	6.3	6.6	6.6	8.2	8.5	8.60
7	6.6	6.9	6.9	8.2	8.5	8.60
8	6.6	6.9	6.9	7.2		7.5
9	8.2	8.5	8.60	7.1		7.4
10	8.1	8.4	8.50	7.2		7.5
11	8.2	8.5	8.60	7.2		7.5
12	8.2	8.5	8.60	6.1		6.4
13	7.3		7.6	6.0		6.3
14	7.2		7.5	5.9		6.2
15	7.3		7.6	6.1		6.4

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1913phae.proj..991L

ScR

May 28, 1913

	#698 Sc1	Sc2		#697 Sc1	Sc2	
1	6.2	6.5		4.1	4.4	4.4
2	6.2	6.5	6.5	4.1	4.4	4.4
3	6.3	6.6	6.6	4.1	4.4	4.4
4	6.3	6.6	6.6	8.1	8.4	8.55
5	7.2	7.5	7.5	8.2	8.5	8.60
6	7.1	7.4	7.4	8.1	8.4	8.50
7	7.2	7.5	7.5	7.9	8.2	8.2
8	7.1	7.4	7.4	6.3	6.6	6.6
9	9.1	9.4	9.50	6.3	6.6	6.6
10	8.3	8.6	8.65	6.7	7.0	7.0
11	8.3	8.6	8.65	6.7	7.0	7.0
12	8.3	8.6	8.65	5.2	5.5	5.5
13	7.3	7.6	7.6	5.1	5.4	5.4
14	7.2	7.5	7.5	5.2	5.5	5.5
15	7.3	7.6	7.6	5.2	5.5	5.5

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10.16

ScR

May 22. 1913

	H 696			H 709			
1	5.2	5.5	5.5	T. P.			
2	5.2	5.5	5.5	T. P.			
3	5.4	5.7	5.7	T. P.			
4	5.4	5.7	5.7	7.0	7.3		7.3
5	6.9	7.2	7.2	7.1	7.4		7.4
6	7.0	7.3	7.3	7.2	7.5		7.5
7	6.9	7.2	7.2	7.2	7.5		7.5
8	6.9	7.2	7.2	8.1	8.4	8.7	8.55
9	8.3	8.6	8.7	8.1	8.4	8.7	8.55
10	7.9	8.2	8.2	8.3	8.6	8.7	8.65
11	8.0	8.3	8.3	8.1	8.4	8.7	8.55
12	7.9	8.2	8.2	9.4	9.7	10.0	9.85
13	4.0	4.3	4.3	9.3	9.6	9.7	9.65
14	4.2	4.5	4.5	9.2	9.5	9.7	9.60
15	4.2	4.5	4.5	9.3	9.6	9.6	9.60

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Sc. 7. May 23, 1913.

	H 708			H 707		
	Sc. 1	Sc. 2		Sc. 1	Sc. 2	
1	9.2	9.5	9.7	9.60	7.3 7.6	7.6
2	9.1	9.4	9.6	9.50	7.3 7.6	7.6
3	9.1	9.4	9.7	9.55	7.4 7.7	7.7
4	9.2	9.5	9.7	9.60	6.3 6.6	6.6
5	7.3	7.6		7.6	6.2 6.5	6.5
6	7.3	7.6		7.6	6.3 6.6	6.6
7	7.4	7.7		7.7	6.3 6.6	6.6
8	7.3	7.6		7.6	7.2 7.5	7.5
9	6.1	6.4		6.4	7.2 7.5	7.5
10	6.2	6.5		6.5	8.0 8.3	8.3
11	6.3	6.6		6.6	7.2 7.5	7.5
12	6.3	6.6		6.6	9.1 9.4 9.7	9.55
13	7.5	7.6		7.6	8.9 9.2 9.6	9.40
14	7.8	8.1		8.1	8.7 9.0 9.3	9.15
15	7.8	8.1		8.1	8.6 8.9 9.1	9.00

M. C. W.

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1913phae.proj..991L

Sc. II

May 23, 1913.

	H 706 Sc.1		Sc.2		H 705 Sc.1		Sc.2	
1	5.3	5.6		5.6	7.1	7.4		7.4
2	5.2	5.5		5.5	7.0	7.3		7.3
3	5.2	5.5		5.5	7.1	7.4		7.4
4	7.0	7.3		7.3	9.7	10.0	10.1	10.05
5	6.9	7.2		7.2	9.6	9.9	10.0	9.95
6	6.9	7.2		7.2	9.7	10.0	9.9	9.95
7	7.0	7.3		7.3	9.1	9.4	9.9	9.65
8	8.3	8.6	8.7	8.65	8.2	8.5	8.6	8.55
9	8.1	8.4	8.6	8.50	8.1	8.4	8.6	8.50
10	7.9	8.2		8.2	8.3	8.6	8.7	8.65
11	8.1	8.4		8.4	8.1	8.4	8.6	8.50
12	6.1	6.4		6.4	7.1	7.4		7.4
13	6.3	6.6		6.6	7.1	7.4		7.4
14	6.3	6.6		6.6	7.1	7.4		7.4
15					7.0	7.3		7.3

M.C.W.

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Sc. 7 May 23, 1913.

	H 704 Sc. 1	Sc 2		H 703 Sc. 1	Sc. 2	
1	6.1	6.4	6.4	7.3	7.6	7.6
2	6.1	6.4	6.4	7.2	7.5	7.5
3	6.0	6.3	6.3	7.3	7.6	7.6
4	6.0	6.3	6.3	Im hazy	8.1 ? 8.4 ? 8.7	8.55 ?
5	7.1	7.4	7.4	" "	8.1 ? 7 9.4 ? 8.7	7.55 ?
6	7.1	7.4	7.4		7.3 ? 7.6 ?	7.6 ?
7	7.2	7.5	7.5		7.2 7.5	7.5
8	7.2	7.5	7.5	vis. wide?	7.1 ? 7.4 ?	7.4 ?
9	9.0 7 9.0	9.3	9.6	9.45	" "	7.0 ? 7.4 ?	7.4 ?
10	8.8	8.3		8.85		7.1 7.4	7.4
11	8.1	8.4	8.7	8.55		6.3 6.6	6.6
12	8.0	8.3		8.3		5.3 5.6	5.6
13	6.3	6.6		6.6		5.3 5.6	5.6
14	6.2	6.5		6.5		6.0 6.4	6.4
15	6.3	6.6		6.6		6.0 6.4	6.4
16	6.1	6.4		6.4			
17	6.1	6.4		6.4			
18	6.2	6.5		6.5			

Images on H 703 - Some of them hazy - measures not accordant ?

10.46

M. C. W.

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1913phae.proj..991L

L. R

May 24, 1913

	H γ 09		
	Sc1	Sc2	
1	8.083	8.3	8.30
2	8.184	8.3	8.35
3	8.083	8.3	8.30

H γ 09	Remeasure
Sc1 Sc2	
7.1 74	74
7.1 74	74
7.2 75	75
8.184 86	8.50
8.083 8.3	8.30
8.184 84	8.40
8.083 8.3	8.30
70 73	73
70 73	73
7.2 75	75
7.0 73	73
60 63	63
60 63	63
6.1 64	64
6.2 65	64

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1913phae.proj..0011

Taken Feb 12, 1913

not to be reduced at present. May 29, 1915

Sc W

YELLOW

May 28 1913 Series 38

MC 2705 L' Pole

			mc
		Sc.1	2710 p.92
5	4.7	4.8	3.2
8	7.1	7.2	5.9
9	8.0	8.1	6.8
10	8.1	8.2	7.3
		Sc.2	
11	8.6		7.8
12	Star sup.		8.1
13	9.4		8.5
14	9.8		8.7
15	F.		9.1
5r	7.5		
88°	90	8.1	
88°	105	7.2	
2r	5.1		
4r	7.2		
88°	115	8.3	
9r	F.		
7r	8.7		
88°	82	7.4	
5p	9.0		
4p	8.7		
6r	8.3		
8r	F.		
16			9.7

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1913phae.proj..991L

Taken Feb 12, 1913.

YELLOW

Sc W

May 28, 1913 Series 38

MC 2706 (64) L'

		Sc 1	Sc 2	P.C.
Near edge.	3	3.0		9.1
	14		8.9	
	15		9.2	
	1	3.9		9.7
	10		8.1	
	4	3.9		9.8
	5	6.6	6.7	
	2	4.3		9.9
	12	7.2	7.2	
	9	6.1	6.2	
	6	4.2		10.0
	8	7.3	7.3	
	16		9.7	
	11		8.6	
	7	4.9	5.0	
	17		9.7	
	13	7.3	7.4	
	18		n.s	
	19		9.8	

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1913phae.proj..991L

Taken Feb 12, 1913

YELLOW

Sc W

May 28, 1913 Series 38

MC 2707 (Cas-) L'

	Sc 1	Sc 2	P.C
Too far fr. center? 3	2.0		8.7
4	4.3		
6	7.0		
25	5.7		
13	7.7		
14	7.2		
12	7.7		
17		9.1	
5	6.4		
16		9.1	
8	7.1		
15	7.6		
10	7.0		
9	6.6		
22		9.7	
19		9.3	
20	F		
11	7.3		
18		9.2	
7	6.0		

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1913phae.proj..991L

Taken Feb 12, 1913

YELLOW

Sc W May 28, 1913 Series 38

MC 2708 L' 9h 20+45 B4

	Sc 1	Sc 2	Pc
Too far fr Center 2	4.3		
" " " " 5			
Off Plate 6			
7	6.3		
4	5.2		
1	5.1		
21		8.9	
9	6.0		
3	4.3		8.9
11	7.1		
16		8.5	
10	6.9		
17		8.7	
14	7.9		
15	8.1		
22	n.s		
13	6.4		
20		9.8	
23	n.s		
8	5.4		
12	6.8		
18		8.2	
19		8.9	

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1913phae.proj..991L

Taken Feb 12, 1913

Sc W YELLOW May 28, 1913 Series 38

MC 2709 L' $9^h - 15$ D8

	Sc 1	Sc 2	P.C.
Too far fr Center	1		9.8
" " " "	2		scratched.
" " " "	3		9.3
" " " "	4		
" " " "	5		
	6	6.1	
	10	6.3	
	12		8.1
	16	7.7	
	19		9.1
	7	6.4	
	17		8.7
	8	6.2	
	9	6.1	
	21		9.0
	14	7.7	
	20		9.8
	18		9.7
	13		8.6
	11	6.7	
	15		9.1

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1913phae.proj..991L

Taken Feb 12, 1913

YELLOW

Sc W

May 28, 1913 : Series 38

MC 2710 L' Pole.

		Sc1	Sc2	PC
	5'	3.1	3.2	
	8	5.8	5.9	
	9	6.7	6.8	
88°	2	5.9	6.0	
	4m	5.9	6.0	
	2p	3.2	3.3	
88°	10S	6.0	6.1	
	16		9.7	
	8m		8.7	
	14		8.7	
	10	7.2	7.3	
	5p		8.3	
	7m		8.2	
88°	90	Too poor.		
	5m	6.7	6.8	
	6	4.0	4.1	
	9m		9.7	
	12	8.0	8.1	
	6m		9.0	
	4p	8.1	8.2	
	6m	7.4	7.5	
	11	7.7	7.8	
	15		9.1	
88	115	7.3	7.4	
	17	m.s	~~8.5~~	
	13		8.5	

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1913phae.proj..991L

Taken Feb. 12, 1913

YELLOW

Sc. W

May 29, 1913 Series 38

MC 2710 L' Pole.

		Sc1	Sc2	MC 2716 p.97	P.C	MC 2716 p.97 P.C.	P.C. Mean Sum	
	5	3.0	3.1	2.8	8.9	8.7		R
	8	5.7	5.8	5.2				R
	9	6.7	6.8	t.p.				R
88°	2	5.8	5.9	5.2				R
88°	11.5	7.3	7.4	t.p.				R
	4 N	5.9	6.0	5.8				R
	2 N	3.0	3.1	3.0				R
88°	10.5	6.1	6.2	~~5.9~~ 6.0				R
88°	90	t.p.		-				.
Poor im.	5 N	6.7	6.8	6.4				R
	6	4.1	4.2	~~3.9~~ 4.0				R
	4 N	8.0	8.1	8.2			8.15	±0
	6 N	7.5	7.6	7.5			7.55	0 ± 1
	11	7.7	7.8	7.8			7.80	00
	15	~~9.1~~	9.1	9.4			9.25	±2
	6 N		8.9	9.1			9.00	±1
	12	8.1	8.2	8.2			8.20	00
	9 N		9.5	9.7			9.60	±1
	13		8.6	8.7			8.65	01
	7 N	8.0	8.1	8.1			8.10	00
	5 N		8.2	8.1			8.15	0 ± 1
	14		8.7	8.8			8.75	±0
	10	7.3	7.4	7.3			7.35	0 ± 1
	16		9.7	9.8			9.75	±0
	17	F		.				
	8 N		8.7	8.9			8.80	±1

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1913phae.proj..991L

Taken Feb 12, 1913

YELLOW

Sc W May 29, 1913 Series 38

MC 2711 L' 6 K

	Sc 2
1	6.9
2	7.8
3	8.0
4	8.8
5	9.6
6	F

MC 2712 L' 126 K

	Sc 2
1	5.3
2	6.7
3	7.0
4	8.0
5	8.7
6	9.5
7	9.9

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1913phae.proj..991L

Taken Feb 12, 1913

YELLOW

Sc 44 May 29, 1913 Series 38

MC 2713 L' 30 K

	Su 2
1	5.0
2	6.9
3	7.6
4	7.0
5	8.5
6	8.8
7	8.4
8	9.2
9	9.9 ?

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Taken Feb 12. 1913

Sc W YELLOW May 29, 1913 Series 38

		MC 27.4 L' Sc 1	Sc 2	C 6 P.C
Too far fr C.	1			9.4
" " " "	2	Too near edge		
" " " "	3			9.9
" " " "	5	4.0		
" " " "	7	6.2		
	4	5.0		
	6	5.7		
	8	5.0		
	10	5.3		
	15	6.8		
	17		8.7	
	19		8.5	
	9	5.9		
	14	7.5		
	20		8.9	
	13	6.7		
	12	6.3		
	21		8.9	
	22		9.3	
	24		9.9	
	18		9.0	
	23	F.		
	16		8.2	
	11	7.4		

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1913phae.proj..991L

Taken Feb 12, 1913

Sc W YELLOW May 29, 1913 Series 38

MC 27.15 Too poor.

" 27.16 L' Pole.

	Sc1	Sc2	PC
5	2.0	2.1	8.7
8	5.1	5.2	
9	Too poor.		
88 2	5.1	5.2	
88 115	t fr		
4r	5.7	5.8	
2r	3.0	3.1	
88 105	5.9	6.0	
88 90	t fr		
8r	t	8.8	
Poor im. 5r	6.4	6.5	
6	3.9	4.0	
11	7.7	7.8	
12	8.1	8.2	
9r		9.7	
14		8.8	
~~7.2~~ 10	7.2	7.3	
6r	7.4	7.5	
4r	8.1	8.2	
15		9.4	
7r	8.0	8.1	
8r		8.9	
13		8.7	
6r		9.1	
5r	8.0	8.1	
16		9.8	

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Sc. R

June 2, 1913

W 710

	Sc 1	Sc 2	1st. m.	2d. m.	Mean
1	8.2 8.5	8.6	8.55	8.55	8.55
2	8.1 8.4	8.6	8.50	8.55	8.52
3	8.3 8.6	8.7	8.65	8.75	8.70
4	8.2 8.5	8.7	8.60	8.50	8.55
5	7.1 7.4		7.4	7.4	7.40
6	7.0 7.3		7.3	7.3	7.30
7	7.1 7.4		7.4	7.3	7.35
8	7.1 7.4		7.4	7.4	7.40
9	6.1 6.4		6.4	6.4	6.40
10	6.0 6.3		6.3	6.3	6.30
11	6.0 6.3		6.3	6.3	6.30
12	6.1 6.4		6.4	6.5	6.45
13	7.2 7.5		7.5	7.6	7.55
14	7.2 7.5		7.5	7.5	7.50
15	7.3 7.6		7.6	7.6	7.60
16	7.3 7.6		7.6	7.6	7.60

W 711

	Sc 1	Sc 2	1st. mean	2d. mean	Mean
	7.2 7.5		7.5	7.5	7.50
	7.2 7.5		7.5	7.5	7.50
	7.3 7.6		7.6	7.7	7.65
	7.2 7.5		7.5	7.5	7.50
	6.0 6.3		6.3	6.2	6.25
	6.0 6.3		6.3	6.3	6.30
	6.1 6.4		6.4	6.4	6.40
	6.1 6.4		6.4	6.4	6.40
	7.0 7.3		7.3	7.4	7.35
	7.1 7.4		7.4	7.5	7.45
	7.1 7.4		7.4	7.5	7.45
	7.1 7.4		7.4	7.5	7.45
	7.3 7.6		7.6	7.6	7.60
	8.0 8.3	8.3	8.30	8.30	8.30
	8.1 8.4	8.6	8.50	8.30	8.40
	8.0 8.3	8.3	8.30	8.2	8.25
	7.9 8.2		8.2	8.2	8.20

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June 2, 1913

H 714

	Sc 1	Sc 2	1st Mean	2nd Mean	Mean
1	9.0 9.3	9.3	9.30	9.35	9.32
2	9.0 9.3	9.3	9.30	9.25	9.28
3	9.2 9.5	9.6	9.55	9.50	9.52
4	8.8 (3) 8.6	8.7	8.65	8.65	8.65
5	8.0 8.3	8.3	8.30	8.30	8.30
6	8.0 8.3	8.3	8.30	8.30	8.30
7	7.9 8.2		8.2	8.2	8.20
8	7.9 8.2		8.2	8.1	8.15
9	6.2 6.5		6.5	6.5	6.50
10	6.2 6.5		6.5	6.5	6.50
11	6.3 6.6		6.6	6.5	6.55
12	6.3 6.6		6.6	6.6	6.60
13	5.3 5.6		5.6	5.6	5.60
14	5.7 5.5		5.5	5.6	5.55
15	5.3 5.6		5.6	5.6	5.60
16	5.3 5.6		5.6	5.6	5.60

H 715

	Sc 1	Sc 2	1st Mean	2nd Mean	Mean
1	6.1 6.4		6.4	6.4	6.40
2	6.0 6.3		6.3	6.4	6.35
3	6.1 6.4		6.4	6.3	6.35
4	6.1 6.4		6.4	6.3	6.35
5	9.2 9.5	9.7	9.60	9.40	9.50
6	9.2 9.5	9.7	9.60	9.30	9.45
7	8.9 9.2	9.3	9.25	9.20	9.22
8	8.9 9.2	9.3	9.25	9.20	9.22
9	8.0 8.3	8.3	8.30	8.30	8.30
10	8.0 8.3	8.3	8.30	8.30	8.30
11	7.9 8.2		8.2	8.2	8.20
12	7.9 8.2		8.2	8.1	8.15
13	7.0 7.3		7.3	7.2	7.25
14	7.0 7.3		7.3	7.2	7.25
15	7.1 7.4		7.4	7.3	7.35
16	7.1 7.4		7.4	7.3	7.35

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Sc. R

June 8, 1913

	H Y 16 Sc 1	Sc 2	1st.	2d.	Mean.	H Y 17 Sc 1	Sc 2	1st.	2d.	Mean.
1	6.2 6.5		6.5	6.5	6.50	8.2 8.5	8.7	8.60	8.56	8.58
2	6.1 6.4		6.4	6.4	6.40	8.1 8.4	8.6	8.50	8.30	8.40
3	6.1 6.4		6.4	6.4	6.40	8.1 8.4	8.6	8.50	8.50	8.50
4	8.1 8.4	8.6	8.50	8.50	8.50	8.2 8.5	8.7	8.60	8.50	8.55
5	6.1 6.4		6.4	6.5	6.45	9.1 9.4	9.3	9.35	9.35	9.35
6	7.3 7.6		7.6	7.6	7.60	9.0 9.3	9.3	9.30	9.20	9.25
7	7.3 7.6		7.6	7.6	7.60	8.9 9.2	9.3	9.25	9.25	9.25
8	8.1 8.4	8.6	8.50	8.30	8.40	8.8 9.1	9.1	9.10	9.25	9.18
9	7.3 7.6		7.6	7.6	7.60	8.0 8.3	8.3	8.30	8.50	8.40
10	8.0 8.3	8.3	8.30	8.50	8.40	8.0 8.3	8.3	8.30	8.30	8.30
11	7.2 7.5		7.5	7.6	7.55	7.7 8.0	8.0	8.00	8.1	8.05
12	8.0 8.3	8.3	8.30	8.50	8.40	7.7 8.0	8.0	8.00	8.1	8.05
13	9.1 9.4	9.6	9.50	9.30	9.40	6.9 7.2		7.2	7.3	7.25
14	9.1 9.4	9.6	9.50	9.50	9.50	6.9 7.2		7.2	7.3	7.25
15	9.2 9.5	9.7	9.60	9.50	9.55	7.0 7.3		7.3	7.2	7.25
16	8.9 9.2	9.3	9.25	9.20	9.22	7.0 7.3		7.3	7.3	7.30

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Sc R

June 4, 1913

	# 718 Sc 1		Sc 2	1st	2nd	Mean.	# 719 Sc 1		Sc 2	1st	2nd	Mean.
1	6.2	6.5		6.5	6.5	6.50	8.0	8.3		8.3	8.30	8.30
2	6.3	6.6		6.6	6.5	6.55	8.0	8.3		8.3	8.30	8.30
3	6.2	6.5		6.5	6.5	6.50	8.1	8.4	8.6	8.50	8.35	8.42
4	6.3	6.6		6.6	6.6	6.60	8.3	8.6	8.7	8.65	8.60	8.62
5	7.8	7.6 (8.1)		7.6 (8.1)	8.2	8.15	9.0	9.3	9.3	9.30	9.45	9.38
6	7.8	7.6 (8.1)		7.6 (8.1)	8.2	8.15	9.0	9.3	9.3	9.30	9.45	9.38
7	7.1?	7.4		7.4	7.5	7.45	8.9	9.2	9.3	9.25	9.30	9.28
8	7.1?	7.4		7.4	7.4	7.40	8.0	8.3	8.3	8.30	8.45	8.38
9	9.0	9.3	9.3	9.30	9.45	9.38	8.0	8.3	8.3	8.30	8.30	8.30
10	9.0	9.3	9.3	9.30	9.30	9.30	7.9	8.2		8.2	8.2	8.20
11	9.0	9.3	9.3	9.30	9.50	9.40	7.9	8.2		8.2	8.2	8.20
12	9.0	9.3	9.3	9.30	9.50	9.40	8.0	8.3	~~8.4~~ 8.3	8.30	8.50	8.40
13	8.0	8.3	8.3	8.30	8.30	8.30	6.2	6.5		6.5	6.5	6.50
14	7.9	8.2		8.2	8.2	8.20	6.2	6.5		6.5	6.5	6.50
15	8.0	8.3	8.3	8.30	8.30	8.30	6.1	6.4		6.4	6.5	6.45
16	8.0	8.3	8.3	8.30	8.50	8.40	6.3	6.6		6.6	6.6	6.60

Poor

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June 4, 1913

	H720 Sc1	Sc2	1st ½	2nd ½	Mean	H721 Sc1	Sc2	1st ½	2nd ½	Mean
1	6.2 6.5		6.5	6.5	6.50	8.1 8.4	8.6	8.50	8.50	8.50
2	6.2 6.5		6.5	6.5	6.50	8.1 8.4	8.6	8.50	8.30	8.40
3	6.3 6.6		6.6	6.6	6.60	8.1 8.4	8.6	8.50	8.50	8.50
4	6.2 6.5		6.5	6.5	6.50	8.3 8.6	8.7	8.65	8.60	8.62
5	7.3 7.6		7.6	7.6	7.60	9.1 9.4	9.6	9.50	9.60	9.55
6	7.3 7.6		7.6	7.7	7.65	8.7 9.0	9.1	9.05	9.00	9.02
7	7.1 7.4		7.4	7.4	7.40	8.9 9.2	9.3	9.25	9.25	9.25
8	7.1 7.4		7.4	7.4	7.40	8.0 8.3	8.3	8.30	8.50	8.40
9	~~8.7~~ 9.0	9.2	9.10	9.25	9.18	7.8 8.1	8	8.1	8.2	8.15
10	~~8.7~~ 9.0	9.2	9.10	9.20	9.15	8.0 8.3	8.3	8.30	8.30	8.30
11	8.3 8.6	8.7	8.65	8.65	8.65	7.8 8.1		8.1	8.0	8.05
12	8.3 8.6	8.7	8.65	8.65	8.65	7.1 7.4		7.4	7.5	7.45
13	7.3 7.6		7.6	7.6	7.60	6.3 6.6		6.6	6.5	6.55
14	7.3 7.6		7.6	7.6	7.60	6.3 6.6		6.6	6.5	6.55
15	7.6 7.9		7.9	8.0	7.95	6.3 6.6		6.6	6.5	6.55
16	7.6 7.9		7.9	8.1	8.00	6.3 6.6		6.6	6.6	6.60

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1913phae.proj...991L

June 6, 1913

	H723 Sc 1	H723 Sc 2	1st.	2d.	Mean.	H724 Sc 1	H724 Sc 2	1st.	2d.	Mean.
1	6.3 66		66	66	6.60	8.184	8.6	8.50	8.50	8.50
2	8.184	8.6	8.50	8.45	8.48	8.285	8.6	8.55	8.55	8.55
3	6.3 66		6.6	6.6	6.60	8.184	8.6	8.50	8.50	8.50
4	6.164		6.4	6.4	6.40	8.285	8.7	8.60	8.58	8.59
5	6.3 66		6.6	6.6	6.60	9.093	9.3	9.30	9.50	9.40
6	8.184	8.6	8.50	8.30	8.40	9.194	9.6	9.50	9.30	9.40
7	8.285	8.7	8.60	8.65	8.62	9.194	9.6	9.50	9.45	9.48
8	8.083	8.3	8.30	8.30	8.30	9.093	9.3	9.30	9.30	9.30
9	8.083	8.3	8.30	8.30	8.30	7.376		7.6	7.6	7.60
10	8.386	8.7	8.65	8.60	8.62	7.275		7.5	7.6	7.55
11	8.083	8.3	8.30	8.30	8.30	7.376		7.6	7.6	7.60
12	9.093	9.3	9.30	9.50	9.40	7.275		7.5	7.5	7.50
13	9.396	9.7	9.65	9.55	9.60	6.164		6.4	6.5	6.45
14	9.396	9.7	9.65	9.55	9.58	6.265		6.5	6.5	6.50
Pow. 15	8.790	9.1	9.05	9.15	9.10	6.164		6.4	6.5	6.45
16	—	—				6.3 66		6.6	6.6	6.60

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1913phae.proj..991L

Sc R

June 4, 1913

H 725 ←

	Sc 1	Sc 2			Mean
1	6.1	6.4	6.4	6.4	6.40
2	6.2	6.5	6.5	6.5	6.50
3	6.2	6.5	6.5	6.5	6.50
4	6.2	6.5	6.5	6.6	6.55
5	7.3	7.6	7.6	7.5	7.55
6	7.3	7.6	7.6	7.6	7.60
7	7.3	7.6	7.6	7.6	7.60
8	7.3	7.6	7.6	7.6	7.60
9	9.0	9.3	9.3	9.30	9.45	9.38
10	9.1	9.4	9.6	9.50	9.45	9.48
11	9.1	9.4	9.6	9.50	9.20	9.35
12	8.8	9.1	9.1	9.10	9.20	9.15
13	7.0	7.3		7.3	7.4	7.35
14	6.9	7.2		7.2	7.3	7.25
15	6.9	7.2		7.2	7.3	7.25
16	7.0	7.3		7.3	7.4	7.35

June 6, 1913

H 710

Sc 1		Sc 2	
8.2	8.5	8.6	8.55
8.2	8.5	8.6	8.55
8.4	8.7	8.8	8.75
8.1	8.4	8.6	8.50
7.1	7.4		7.4
7.0	7.3		7.3
7.0	7.3		7.3
7.1	7.4		7.4
6.1	6.4		6.4
6.0	6.3		6.3
6.0	6.3		6.3
6.2	6.5		6.5
7.3	7.6		7.6
7.2	7.5		7.5
7.3	7.6		7.6
7.3	7.6		7.6

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1913phae.proj..991L

Sc R

June 5, 1913

	#711			#714 ?		
	Sc 1	Sc 2		Sc 1	Sc 2	
1	7.2 7.5		7.5	9.1 9.4	9.3	9.35
2	7.2 7.5		7.5	8.9 9.2	9.3	9.25
3	7.4 7.7		7.7	9.1 9.4	9.6	9.50
4	7.2 7.5		7.5	8.3 8.6	8.7	8.65
5	5.9 6.2		6.2	8.0 8.3	8.3	8.30
6	6.0 6.3		6.3	8.0 8.3	8.3	8.30
7	6.1 6.4		6.4	~~8.0~~		
8	6.1 6.4		6.4	7.9 8.2		8.2
9	7.1 7.4		7.4	7.8 8.1		8.1
10	7.2 7.5		7.5	6.2 6.5		6.5
11	7.2 7.5		7.5	6.2 6.5		6.5
12	7.2 7.5		7.5	6.2 6.5		6.5
13	7.3 7.6		7.6	6.3 6.6		6.6
14	8.0 8.3	8.3	8.30	5.3 5.6		5.6
15	8.0 8.3	8.3	8.30	5.3 5.6		5.6
16	7.9 8.2		8.2	5.3 5.6		5.6
17	7.9 8.2		8.2	5.3 5.6		5.6

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ScR

June 5, 1913

	H715			H716		
X	Sc 1	Sc 2		Sc 1	Sc 2	
1	6.1 64		64	6.2 65		6.5
2	6.1 64		64	6.1 64		6.4
3	6.0 63		63	6.1 64		6.4
4	6.0 63		63	8.1 84	8.6	8.50
5	9.1 94	9.4	9.40	6.2 65		6.5
6	9.0 93	9.3	9.30	7.3 76		7.6
7	8.9 92	9.2	9.20	7.3 76		7.6
8	8.9 92	9.2	9.20	8.0 83	8.3	8.30
9	8.0 83	8.3	8.30	7.3 76		7.6
10	8.0 83	8.3	8.30	8.1 84	8.6	8.50
11	7.9 82		8.2	7.3 76		7.6
12	7.8 8.1		8.1	8.1 84	8.6	8.50
13	6.9 72		7.2	9.0 93	9.3	9.30
14	6.9 72		7.2	9.1 94	9.6	9.50
15	7.0 73		7.3	9.1 94	9.6	9.50
16	7.0 73		7.3	8.9 92	9.2	9.20

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1913phae.proj..991L

ScR

June 5, 1913

	#717			#718		
	Sc 1	Sc 2		Sc 1	Sc 2	
1	8.184	8.6	8.50	6.265		6.5
2	8.083	8.3	8.30	6.265		6.5
3	8.184	8.6	8.50	6.265		6.5
4	8.184	8.6	8.50	6.366		6.6
5	9.194	9.3	9.25	7.982		8.2
6	8.992	9.2	9.20	7.982		8.2
7	8.992	9.3	9.25	7.275		7.5
8	8.992	9.3	9.25	7.174		7.4
9	8.184	8.6	8.50	9.194	9.5	9.45
10	8.083	8.3	8.30	9.093	9.3	9.30
11	7.881		8.1	9.194	9.6	9.50
12	7.881		8.1	9.194	9.6	9.50
13	7.073		7.3	8.083	8.3	8.30
14	7.073		7.3	7.982		8.2
15	6.972		7.2	8.083	8.3	8.30
16	7.073		7.3	8.184	8.6	8.50

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1913phae.proj..991L

DcR

June 5, 1913

	#719 Sc 1		Sc 2		#720 ? Sc 1		Sc 2	
1	8.0	8.3	8.3	8.30	6.2	6.5		6.5
2	8.0	8.3	8.3	8.30	6.2	6.5		6.5
3	8.1	8.4	8.3	8.35	6.3	6.6		6.6
4	8.2	8.5	8.7	8.60	6.2	6.5		6.5
5	9.1	9.4	9.5	9.45	7.3	7.6		7.6
6	9.1	9.4	9.5	9.45	7.4	7.7		7.7
7	9.0	9.3	9.3	9.30	7.1	7.4		7.4
8	8.1	8.4	8.5	8.45	7.1	7.4		7.4
9	8.0	8.3	8.3	8.30	8.9	9.2	9.3	9.25
10	7.9	8.2		8.2	8.9	9.2	9.2	9.20
11	7.9	8.2		8.2	8.3	8.6	8.7	8.65
12	8.1	8.4	8.6	8.50	8.3	8.6	8.7	8.65
13	6.2	6.5		6.5	7.3	7.6		7.6
14	6.2	6.5		6.5	7.3	7.6		7.6
15	6.2	6.5		6.5	7.7	8.0		8.0
16	6.3	6.6		6.6	7.8	8.1		8.1

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1913phae.proj..991L

DcR

June 5, 1913

H 721

	Sc 1	Sc 2	
1	8.1 84	8.6	8.50
2	8.0 83	8.3	8.30
3	8.1 84	8.6	8.50
4	8.2 85	8.7	8.60
5	9.2 95	9.7	9.60
6	8.7 90	9.0	9.00
7	8.9 92	9.3	9.25
8	8.1 84	8.6	8.50
9	7.9 82		8.2
10	8.0 83	8.3	8.30
11	7.7 80		8.0
12	7.2 75		7.5
13	6.2 65		6.5
14	6.2 65		6.5
15	6.2 65		6.5
16	6.3 66		6.6

H 723

Sc 1	Sc 2	
6.3 66		6.6
8.1 84	8.5	8.45
6.3 66		6.6
6.1 64		6.4
6.3 66		6.6
8.0 83	8.3	8.30
8.3 86	8.7	8.65
8.0 83	8.3	8.30
8.0 83	8.3	8.30
8.2 85	8.7	8.60
8.0 83	8.3	8.30
9.1 94	9.6	9.50
9.2 95	9.6	9.55
9.2 95	9.6	9.55
8.8 91	9.2	9.15

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1913phae.proj..991L

Der

June 5, 1913

	H 724 Sec 1	Sec 2		H 725 Sec 1	Sec 2	
1	8.1 84	8.6	8.50	6.1 64		6.4
2	8.2 85	8.6	8.55	6.2 65		6.5
3	8.1 84	8.6	8.50	6.2 65		6.5
4	8.2 85	8.6	8.55	6.3 66		6.6
5	9.1 94	9.6	9.50	7.2 75		7.5
6	9.0 93	9.3	9.30	7.3 76		7.6
7	9.1 94	9.5	9.45	7.3 76		7.6
8	9.0 93	9.3	9.30	7.3 76		7.6
9	7.3 76		7.6	9.1 94	9.5	9.45
10	7.3 76		7.6	9.1 94	9.5	9.45
11	7.3 76		7.6	8.9 92	9.2	9.20
12	7.2 75		7.5	8.9 92	9.2	9.20
13	6.2 65		6.5	7.1 74		7.4
14	6.2 65		6.5	7.0 73		7.3
15	6.2 65		6.5	7.0 73		7.3
16	6.3 66		6.6	7.1 74		7.4

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Sc R

June 6, 1913

	W 726"					W 727"				
	Sc 1	Sc 2	1st	2d	Mean	Sc 1	Sc 2	1st	2d	Mean
1	6.3 6.6		6.6	6.5	6.55	6.3 6.6		6.6	6.6	6.60
2	6.2 6.5		6.5	6.4	6.45	6.3 6.6		6.6	6.6	6.60
3	8.0 8.3	8.3	8.30	8.30	8.30	8.2 8.5	8.7	8.60	8.50	8.55
4	8.0 8.3	8.3	8.30	8.30	8.30	8.1 8.4	8.6	8.50	8.50	8.50
5	9.2 9.5	9.5	9.50	9.55	9.52	9.1 9.4	9.3	9.35	9.55	9.45
6	9.1 9.4	9.5	9.45	9.60	9.52	9.0 9.3	9.3	9.30	9.50	9.40
7	9.1 9.4	9.5	9.45	9.50	9.48	9.0 9.3	9.3	9.30	9.30	9.30
8	9.2 9.5	9.5	9.50	9.60	9.55	9.2 9.5	9.6	9.55	9.45	9.50
9	8.3 8.6	8.7	8.65	8.55	8.60	7.9 8.2		8.2	8.2	8.20
10	8.2 8.5	8.7	8.60	8.50	8.55	8.0 8.3	8.3	8.30	8.30	8.30
11	7.9 8.2		8.2	8.2	8.20	8.0 8.3	8.3	8.30	8.50	8.40
12	8.1 8.4	8.3	8.35	8.50	8.42	8.0 8.3	8.3	8.30	8.50	8.40

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D.R

June 6, 1913

H728.

*	Sc 1		Sc 2	1st	2d	Mean
1	6.3	6.6		6.6	6.5	6.55
2	6.3	6.6		6.6	6.4	6.50
3	8.3	8.5	8.7	8.60	8.60	8.60
4	8.0	8.3	8.3	8.30	8.50	8.40
5	9.1	9.4	9.4	9.40	9.30	9.35
6	9.2	9.5	9.5	9.50	9.50	9.50
7	9.1	9.4	9.4	9.40	9.50	9.45
8	9.1	9.4	9.4	9.40	9.50	9.45
9	8.7	9.0	9.1	9.05	9.05	9.05
10	8.7	9.0	9.0	9.00	9.00	9.00
11	8.2	8.5	8.7	8.60	8.55	8.58
12	8.0	8.3	8.2	8.25	8.30	8.28

H729.

	Sc 1		Sc 2	1st	2d	Mean
	6.2	6.5		6.5	6.5	6.50
	6.2	6.5		6.5	6.5	6.50
	7.1	7.4		7.4	7.4	7.40
	7.2	7.5		7.5	7.5	7.50
	8.9	9.2	9.2	9.20	9.15	9.18
	9.0	9.3	9.3	9.30	9.25	9.28
	9.0	9.3	9.3	9.30	9.30	9.30
	9.1	9.4	9.6	9.50	9.50	9.50
	7.1	7.4		7.4	7.4	7.40
	7.4	7.7		7.7	7.6	7.65
	8.1	8.4	8.6	8.50	8.30	8.40
	8.1	8.4	8.6	8.50	8.50	8.50

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1913phae.proj..991L

Sc R

June 6, 1913

W 730

Sc 1	Sc 2	1st	2d	Mean
6.1 64		64	65	6.45
6.1 64		64	65	6.45
7 8 81	8.1	8.10	8.1	8.10
7.9 82	8.1	8.15	7.85	8.00
9.1 94	9.6	9.50	9.30	9.40
9.2 95	9.5	9.50	9.50	9.50
9.1 94	9.5	9.45	9.30	9.38
9 1 94	9.5	9.45	9.30	9.38
7.9 82		8.2	8.30	8.25
7.9 82		8.2	8.1	8.15
11 8.0 83	8.3	8.30	8.50	8.40

W 731

Sc 1	Sc 2	1st	2d	Mean
6.3 66		66	6.6	6.60
6.2 65		65	64	6.45
8.0 83	8.3	8.30	8.2	8.25
7.9 82		8.2	8.2	8.20
9.1 94	9.6	9.50	9.55	9.52
9.1 94	9.5	9.45	9.50	9.48
9.2 95	9.7	9.60	9.56	9.58
9.1 94	9.6	9.50	9.50	9.50
7.9 82		8.2	8.2	8.20
7.9 82		8.2	8.2	8.20
8.0 83		8.3	8.45	8.38

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1913phae.proj..991L

DcR

June 6, 1913

	H732 Sc 1	Sc 2	1st	2nd	Mean	H735 Sc 1	Sc 2	1st	2nd	Mean
1	7.1 7.4		7.4	7.4	7.40	7.1 7.4		7.4	7.4	7.40
2	7.2 7.5		7.5	7.4	7.45	7.1 7.4		7.4	7.4	7.40
3	8.2 8.5	8.7	8.60	8.60	8.60	8.0 8.3	8.2	8.25	8.30	8.28
4	8.2 8.5	8.7	8.60	8.50	8.55	8.1 8.4	8.3	8.35	8.50	8.42
Ponim. 5	9.7 10.0	10.2	10.00	9.95	9.98	9.1 9.4	9.5	9.45	9.30	9.38
6	9.2 9.5	9.7	9.60	9.50	9.55	9.2 9.5	9.7	9.60	9.50	9.55
7	9.3 9.6	9.7	9.65	9.55	9.60	9.2 9.5	9.7	9.60	9.50	9.55
8	9.3 9.6	9.7	9.65	9.60	9.62	9.2 9.5	9.7	9.60	9.50	9.55
9	7.8 8.1		8.1	8.0	8.05	8.3 8.6	8.7	8.65	8.60	8.68
10	7.9 8.2		8.2	8.2	8.20	8.4 8.7	8.9	8.80	8.65	8.72

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1913phae.proj..991L

Dec R

June 6, 1913

W436

Set 1	Set 2	1st	2d	Mean
7.174		7.4	7.4	7.40
7.174		7.4	7.4	7.40
8.184	8.6	8.50	8.55	8.52
8.184	8.6	8.50	8.50	8.50
9.295	9.7	9.60	9.55	9.58
9.194	9.5	9.45	9.50	9.48
9.194	9.5	9.45	9.50	9.48
9.295	9.7	9.60	9.60	9.60
8.184	8.6	8.50	8.50	8.50
8.083	8.3	8.30	8.30	8.30

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1913phae.proj..991L

Dec 11

June 9, 1913

NGC 2739 (Orb)

	Sol	Sol	Oc		Mean	Diff.
5	B		5.9	5.4	5.65 3/5	+0.74
6			6.7	6.4	6.65 1/2	+0.83
7			7.7	7.9	7.80 1 1	(0.62)
8	4.8	Diff. +3.80	8.9	8.7	8.35 4 3	-0.25
9	4.9	3.80	8.7	9.1	8.90 2 2	-0.20
10	5.1	5.2 5.15 1 0 +3.74	9.1			-0.21
11	5.7	5.8 5.75 1 0 3.67	9.7			-0.28
12	6.1	6.3 6.20 1 1 3.53	10.0			-0.27
13	6.5	6.6 6.55 1 0 3.62				
14	6.9	7.1 7.00 1 1 3.52				
15	7.2	7.4 7.30 1 1 3.64				
16	7.5	7.7 7.60 1 1 3.66				
17	7.8	8.0 7.90 1 1 3.59				
18		8.2 8.4 8.30 1 1 3.62				
19		8.6 8.7 8.65 0 1 3.63				
20		8.9 9.1 9.00 1 1 3.59				
23		9.4 9.6 9.50 1 1 3.70				
25		9.9 10.0 9.95 1 0 3.78				
26		∫ a.s.				
27		R.S.				

In C 2744 p. 121 Mean

3/5 2/5
-.06 +.04

4/4 1/4
-.10 +.02

-.10 +.10

3/4 3/4
-.08 +.08

12/13 9/13
-.09 +.07

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copied

Sc II

all +.22

June 9, 1913

MC 2740 32 K

	Sc 1	Sc 2		Cc	Curve	Magn.		Curve	Magn.
								+0.60	6.50
1	B.			5.9					
2	3.1	.	.	6.7				+0.30	7.80
3	4.1	+3.83	7.93	7.8				−0.02	7.78
4	4.3	3.80	8.10	8.1				−0.10	8.00
5	5.3	3.69	8.99	9.7				−0.28	9.42
6	6.1	3.61	9.71						
7	6.4	3.60	10.06						
8	6.7	3.58	10.28						
9	7.0	3.57	10.57						
10	7.7	3.57	11.27						
11	8.1	3.60	11.70						
12		8.7	3.63	12.33					
13		9.0	3.66	12.66					
14		9.2	3.67	12.87					
15		9.7	3.70	13.40					

N

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1913phae.proj..991L

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Sc II Alt. +72 June 9, 1913

· MC 2741 (57K)

	Sc 1	Sc 2	Curve Magn.	C.C	Curve Magn.
1	5.0		+3.72 8.72	8.7	−0.20 8.50
2	5.3		3.69 8.99	9.0	−0.24 8.76
3	5.7		3.65 9.35	9.5	−0.27 9.23
4	6.1		3.61 9.71		
5	6.4		3.60 10.00		
6	7.1		3.57 10.67		
7	7.3		3.56 10.86		
8	7.5		3.57 11.07		
9	8.1	8.10	8.1 3.60 11.70		
10			8.3 3.61 11.91		
11			8.5 3.62 12.12		
12			9.0 3.65 12.65		
13			9.3 3.66 12.96		
14			9.3 3.66 12.96		
15			9.9 3.70 * 13.60		

No. 15 apparently a defect.

Reject. L. Jan. 24, 1914

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1913phae.proj..991L

copied.

Sc II

All. +.70

June 9, 1913

Mc 2742 (14 K)

	Sc1	Sc2	Curve	Imag.	Sc	Curve	Imag.
1	5.7		+3.64	9.34	9.8	-0.29	9.51
2	6.2		3.60	9.80			
3	6.5		3.59	10.09			
4	6.7		3.58	10.28			
5	7.1		3.57	10.67			
6	7.6		3.58	11.17			
7	7.8		3.58	11.38			
8	8.3	8.35	8.4 3.61	11.96			
9			8.6 3.62	12.22			
10			8.9 3.64	12.54			
11			9.2 3.66	12.86			
12			9.5 3.69	13.19			
13			9.8 3.70	* 13.50			
14			9.8 3.70	13.50			
15			10.0 3.71	* 13.71			

Nos. 13 + 15 apparently defects.

Reject H.S.L. Jan. 24, 1914

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1913phae.proj..991L

D. U Alt. +.06 June 9, 1913

* Mc 2743 (105 K)

	Sol	Sol	Curve	Magn.	O.C.	Curve	Magn.
1	3.8		+3.86	7.66	7.1	+0.16	7.26
2	4.9		3.74	8.64	8.6	−0.20	8.40
3	5.4		3.68	9.08	9.8?	−0.29	9.51
4	5.3		3.69	8.99	9.2	−0.26	8.94
5	5.4		3.68	9.08	9.8	−0.26	9.04
6	6.3		3.60	9.90			
7	7.1		3.57	10.67			
8	7.3		3.56	10.86			
9	7.5		3.56	11.06			
10	8.0		3.60	11.60			
11		8.7	3.63	12.33			
12		9.0	3.65	12.65			
13		9.3	3.67	12.97			
14		n.s					
15		n.s					

* Reject this plate. Quality B−.

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1913phae.proj..991L

Se U

June 9, 1913

MC 2444 (Pole)

	Sec 1	Sec 2	QC
5			5.4
6		see p. 116	6.4
8			7.9
9			8.7
10	5.2		9.1
11	5.9		
12	6.3		
13	6.6		
14	7.1		
15	7.4		
16	7.7		
17	8.0		
18		8.4	
19		8.7	
20		9.1	
23		9.6	
25		10.0	
26		ns	
27		ns	

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1913phae.proj..991L

D. W

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June 9, 1913

MC 2745 + 2746 low power

MC 2747 (58K) Curve Imagn. alt + 2.2

	Sc1	Sc2	Curve Imagn.	OC		
1	5.3		+3.69	8.99	9.2	-0.26 8.94
2	6.2		3.60	9.80	10.0	
3	6.5		3.59	10.09		
4	7.3		3.56	10.86		
5	7.7		3.57	11.27		
6		8.3	3.61	11.91		
7		8.5	3.62	12.12		
8		8.8	3.63	12.43		
9		9.2	3.66	12.86		
10		9.7	3.70	13.40		
11		9.9	3.70	13.60		
12		9.9	3.70	13.60		
13		9.8	3.70	13.50		
14		n.s	.	.		
15		n.s	.	.		

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1913phae.proj..991L

corrected

D. M. alt +.06 June 9, 1913

M.C. 2448 (106 H)

	Sc1	Sc2	Curve Imagn.	PC	Curve Imagn.
1	5.3		+3.69	8.99	−0.27 9.23
2	6.2		3.60	9.80	
3	6.5		3.59	10.09	
4	7.1		3.57	10.67	
5	7.2		3.56	10.76	
6	7.8		3.59	11.49	
7		8.3	3.61	11.91	
8		8.7	3.62	12.32	
9		8.9	3.64	12.54	
10		9.3	3.66	12.96	
11		9.3	3.66	12.96	
12		9.7	3.70	13.40	
13		9.9	3.70	13.60	
14		9.9	3.70	13.60	
15		n.s	.	.	

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copied

Sc II aff. +.73 June 9, 1913

Mc 2749 (34 K)

	Sol	Sol		Sc	Curve	Imagn.
1	4.2		Curve Imagn. +3.82 8.02	7.9	+0.05	7.85
2	4.7		3.76 8.46 .59	8.3	−0.14	8.16 .27
3	5.2		3.70 8.90 .903	8.9	−0.22	8.68 .81
4	5.8		3.63 9.43 .56	9.1	−0.28	9.42 .55
5	6.7		3.59 10.29 .42			
6	6.7		3.59 10.29 .42			
7	7.5		3.56 11.06 .20			
8	7.9		3.59 11.49 .63			
9		8.7	3.60 11.85 .94			
10		8.5	3.62 12.12 .26			
11		9.1	3.66 12.76 .90			
12		9.3	3.67 12.97 12.11			
13		9.4	3.68 13.08 .22			
14		9.8	3.70 13.50 .64			
15		10.0	3.71 13.71 .85			

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Dec U

June 9, 1913

MC 24h50 (Pole)

	Sec 1	Sec 2	Sec
5			6.2
6			7.1
8			8.3
9			9.1
10	5.6		9.5
11	6.4		
12	6.9		
13	7.3		
14	7.7		
15	8.0		
16	8.3		
17		8.7	
18		9.1	
19		9.4	
20		9.7	
23		∓	

Did not notice until half measured that the above plate was quality "B". Perhaps it should be rejected as it does not show ft. stars.

E. F. R.

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1913phae.proj..991L

D. R

June 9, 1913

	H 736 Sc 1	Sc 2		H 735 Sc 1	Sc 2	
1	7.174		7.4	7.174		7.4
2	7.174		7.4	7.174		7.4
3	8.285	8.6	8.55	8.083	8.3	8.30
4	8.184	8.6	8.50	8.184	8.6	8.50
5	9.295	9.6	9.55	9.093	9.3	9.30
6	9.194	9.6	9.50	9.194	9.6	9.50
7	9.194	9.6	9.50	9.194	9.6	9.50
8	9.295	9.7	9.60	9.194	9.6	9.50
9	8.184	8.6	8.50	8.285	8.7	8.60
10	8.083	8.3	8.30	8.386	8.7	8.65

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1913phae.proj..991L

Sc R

June 9, 1913

	#732 Sc 1	Sc 2		#731 Sc 1	Sc 2	
1	7.1 7.4		7.4	6.3 6.6		6.6
2	7.1 7.4		7.4	6.1 6.4		6.4
3	8.2 8.5	8.7	8.60	7.9 8.2		8.2
4	8.1 8.4	8.6	8.50	7.9 8.2		8.2
5	9.6 9.9	10.0	9.95	9.2 9.5	9.6	9.55
6	9.1 9.4	9.6	9.50	9.1 9.4	9.6	9.50
7	9.2 9.5	9.6	9.55	9.3 9.6	9.7	9.65
8	9.2 9.5	9.7	9.60	9.1 9.4	9.6	9.50
9	7.7 8.0		8.0	7.9 8.2		8.2
10	7.9 8.2		8.2	7.9 8.2		8.2
11				8.1 8.4	8.5	8.45

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1913phae.proj..991L

Sc. R

June 9, 1913

	W 730 Sc 1	Sc 2		W 729		
1	6.2	6.5	6.5	6.2	6.5	6.5
2	6.2	6.5	6.5	6.2	6.5	6.5
3	7.8	8.1	8.1	7.1	7.4	7.4
4	8.1	9.0	8.0	7.2	7.5	7.5
5	9.6	9.3	9.3	9.30	8.8 9.1	9.2 9.15
6	9.1	9.4	9.6	9.50	8.8 9.1	9.2 9.15
7	9.0	9.3	9.3	9.30	9.0 9.3	9.3 9.30
8	9.0	9.3	9.3	9.30	9.1 9.4	9.6 9.50
9	8.0	8.3	8.3	8.30	7.1 7.4	7.4
10	7.8	8.1	8.1	7.3	7.6	7.6
11	8.1	8.4	8.6	8.50	8.0 8.3	8.3 8.30
12				8.1	8.4	8.6 8.50

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1913phae.proj..991L

S. R

June 9, 1913

	H γ 28 Sc1	Sc2		H γ 24 Sc1	Sc2	
1	6.2 6.5		6.5	6.3 6.6		6.6
2	6.1 6.4		6.4	6.3 6.6		6.6
3	8.2 8.5	8.7	8.60	8.1 8.4	8.6	8.50
4	8.1 8.4	8.6	8.50	8.1 8.4	8.6	8.50
5	9.0 9.3	9.3	9.30	9.2 9.5	9.6	9.55
6	9.1 9.4	9.6	9.50	9.1 9.4	9.6	9.50
7	9.1 9.4	9.6	9.50	9.0 9.3	9.3	9.30
8	9.1 9.4	9.6	9.50	9.1 9.4	9.5	9.45
9	8.7 9.0	9.1	9.05	7.9 8.2		8.2
10	8.7 9.0	9.0	9.00	8.0 8.3	8.3	8.30
11	8.3 8.6	8.7	8.55	8.1 8.4	8.6	8.50
12	8.0 8.3	8.3	8.30	8.1 8.4	8.6	8.50

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Dark

June 9, 1913

	Sec. 1	Sec. 2		
1	6.7	6.5		6.5
2	6.1	6.4		6.4
3	8.0	8.3	8.3	8.30
4	8.0	8.3	8.3	8.30
5	9.2	9.5	9.6	9.55
6	9.2	9.5	9.7	9.60
7	9.1	9.4	9.6	9.50
8	9.2	9.5	9.7	9.60
9	8.2	8.5	8.6	8.55
10	8.1	8.4	8.6	8.50
11	7.9	8.2		8.2
12	8.1	8.4	8.6	8.50

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1913phae.proj..991L

Series 41

YELLOW

ScW

June 13, 1913

MC 2755 (2' Pole)

		Sec 2	Sec 1	Sec								
88°	90	7.980										
	5π	6.768										
88°	105	6.162			Diff.							
	2π		3.1 4.2	90								
	4π	5.7										
88°	115	7.5										
	12	8.2										
	11	7.8										
	13	8.6										
	8π	8.9										
	7π	8.1										
	5π	8.3										
	15	9.7										
	4π	8.1										
	6π	7.3										
	16	∓										
	14	9.1										
	10	7.7										
88°	2	5.7										
	5	2.9	2.9 3.0	91	2.71							
	8	5.2										
	6		3.7 3.8									
	9	6.9										
	9π											

MC 2760	l' mean ~136		Diff	Diff	Curve	Magn.
7.3	7.60	3 3			+1.63	9.23
6.8	6.75	1 0			1.88	8.63
6.4	6.25	1 2			2.06	8.31
4.2	3.70 4.20	5 5 0 0			2.85	6.55
6.3	6.00	3 3			2.16	8.16
7.2	7.35	1 2			1.69	9.04
8.1	8.15	0 1	+1.58	+1.43	1.49	9.64
7.8	7.80	0 0	1.62	1.56	1.56	9.46
8.5	8.55	0 1	1.62	1.43	1.41	9.96
8.4	8.65	3 2			1.39	10.04
7.8	7.95	1 2			1.54	9.49
7.8	8.05	3 2			1.51	9.56
9.0	9.35	3 4	1.59	1.29	1.26	10.61
7.9	8.00	1 1			1.53	9.53
7.4	7.35	1 0			1.69	9.04
9.8	9.8	a a	1.46	1.16	1.14	10.94
8.6	8.85	3 2	1.67	1.39	1.36	10.21
7.3	7.25	0 1	1.64	1.63	1.73	8.98
6.2	5.95	3 2			2.17	8.12
4.1	3.55	6 5	2.84	2.88	2.89	6.44
6.3	5.75	6 5	2.35	2.28	2.26	8.01
4.8	4.80	5 5	2.68	2.68	2.69	6.99
6.9	6.90	0 0	1.80	1.84	1.84	8.74
9.3	9.3	a a			1.27	10.57

ch W

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1913phae.proj..991L

YELLOW

Dc W

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MC 2756 ll (h 9 - 15) D5 Y Y Yellow alt. corr. -11

		Sc 2	Sc 1	Curve	Magn.	Curve	Magn.
Too far from Centre	1	~~3.9~~	3.2 3.3	+3.05	6.35	+2.94	6.24 E
" " " "	2	5.0		2.44	7.44	2.50	7.50
" " " "	3		3.8 3.9	2.84	6.74	2.80	6.70
" " " "	4	5.3		2.33	7.63	2.40	7.70
" " " "	5	5.8		2.16	7.96	2.23	8.03
	6	6.7		1.89	8.59	1.90	8.60
	7	6.8		1.88	8.68	1.87	8.67
	8	6.5		1.94	8.44	1.96	8.46
	9	6.5		1.94	8.44	1.96	8.46
	10	6.7		1.89	8.59	1.90	8.60
	11	7.0		1.81	8.81	1.81	8.81
	12	7.9		1.65	9.55	1.54	9.44
	13	8.6		1.56	10.16	1.40	10.00
	14	7.8		1.68	9.48	1.57	9.37
	15	9.1		1.50	10.60	1.31	10.41
	16	7.8		1.68	9.48	1.57	9.37
	17	8.7		1.55	10.25	1.38	10.08
	18	9.7		1.43	11.13	1.16	10.86
	19	9.0		1.51	10.51	1.33	10.33
	20	n.s					

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1913phae.proj..991L

YELLOW

DeW

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MC 24572 $\lambda'(\dot{q}+15)$ Y C_5 Y Yellow alt. corr. +.09

		Sc 1	Sc 2	Curve	Magn.	Pc	Curve	Magn.
Too faint. C.	1	3.2	3.3	+3.04	6.34	9.0	2.	.
	2		5.3	2.32	7.62		+2.40	7.70
" " "	3	2.7	2.8	.	.	8.7	.	.
	4		4.8	2.50	7.30		2.54	7.34
	5		~~4.8~~ 6.5	1.95	8.45		1.96	8.46
	6		7.1	1.80	8.90		1.77	8.87
	7		6.0	2.10	8.10		2.16	8.16
	8		7.3	1.76	9.06		1.71	9.01
	9		6.8	1.88	8.68		1.87	8.67
	10		7.4	1.74	9.14		1.68	9.08
	11		7.6	1.70	9.30		1.63	9.23
	12		8.0	1.63	9.63		1.53	9.53
	13		7.8	1.68	9.48		1.57	9.37
	14		7.3	1.76	9.06		1.71	9.01
	15		7.9	1.66	9.56		1.54	9.44
	16		9.7	1.43	11.13		1.16	10.86
	17		9.0	1.50	10.50		1.33	10.33
	18		9.4	1.48	10.38		1.25	10.65

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1913phae.proj..991L

dcW YELLOW June 13, 1913 Copied

MC 2458 Σ (B4 9 20+45 Y Y) Yellow Alt. corr. +.13

	Sci		Curve	Magn.	Curve	Magn.
1	4.9	5.0	+2.44	7.44	+2.50	7.50
Sou fair C 2	3.7	3.8	2.87	6.67	2.83	6.63
3	4.1	4.2	2.71	6.91	2.73	6.93
" " " " 4	4.3	4.4	2.65	7.05	2.67	7.07
" " " " 5	Sou Sou		.	.	.	.
" 6	Off Plate.		.	.	.	.
" " " " 7	5.9	6.0	2.10	8.10	2.15	8.15
8	5.9	6.0	2.10	8.10	2.15	8.15
9	6.0	6.1	2.05	8.15	2.12	8.22
10	7.2	7.3	1.76	9.06	1.71	9.01
11	7.5	7.6	1.70	9.30	1.62	9.22
12	7.4	7.5	1.72	9.22	1.65	9.15
13	6.9	7.0	1.81	8.81	1.81	8.81
14	8.0	8.1	1.61	9.71	1.50	9.60
15	7.9	8.0	1.64	9.64	1.53	9.53
16		8.4	1.60	10.00	1.45	9.85
17		8.7	1.55	10.25	1.37	10.07
18		8.2	1.61	9.81	1.49	9.69
19		8.6	1.66	10.26	1.40	10.00
20		9.0	~~1.50~~	~~10.50~~	~~1.33~~	~~10.33~~
21		8.8	1.54	10.34	1.36	10.16
22		9.9	1.40	11.30	1.11	11.01
23	D.S		-	-		

Remeas. By Ld. July 3, 1917.
19 8.5
20 9.8
21 9.0
"may be ~~wrong unit~~ 10.0. 9.0 certainly wrong" per Ld. Assume wrong unit?

Reject as there is no certainty that there is a mistake of a unit. V.S.L. July 3, 1917

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1913phae.proj..991L

SeW YELLOW

June 13, 1913 copied

Yellow alt. corr. +.07

MC 2759 δ^1 (11^h +15) Y C6 Y

	Sc1	Curve Magn.		Curve Magn.	
Roofanfo Center 1	2.9 3.0	.	. 9.7	.	.
" " " 2	Onedge	.	.	.	.
3	4.1 4.2	+2.71	6.91	+2.73	6.93
4	4.3 4.4	2.65	7.05	2.67	7.07
" " " " 5	4.0 4.1	2.77	6.87	2.75	6.85
6	5.1 5.2	2.37	7.57	2.43	7.63
" " " " 7	6.3 6.4	1.98	8.38	2.00	8.40
" " " " 8	4.7 4.8	2.51	7.31	2.54	7.34
9	5.3 5.4	2.30	7.70	2.37	7.77
10	4.8 4.9	2.48	7.38	2.52	7.42
11	7.3 7.4	1.74	9.14	1.68	9.08
12	6.0 6.1	2.06	8.16	2.12	8.22
13	6.8 6.9	1.84	8.74	1.84	8.74
14	7.4 7.5	1.72	9.22	1.65	9.15
15	6.8 6.9	1.84	8.74	1.84	8.74
16	8.9	1.51	10.41	1.34	10.24
17	8.9	1.51	10.41	1.34	10.24
18	~~8.5~~	1.58	10.08	1.43	9.93
19 " "	9.3	1.49	10.79	1.27	10.57
20	9.7	1.43	11.13	1.16	10.86
21	9.7	1.43	11.13	1.16	10.86
22	N.S				

Remeas. July 3, 1917.

8.8
9.6
9.2

} Orig. measure of 18 to be rejected? Evidently defect near meas. instead of star.

Reject. H.S.L. July 6, 1917

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1913phae.proj..991L

L.W YELLOW June 13, 1913

MC 2760 (S. Bole)

	S01	S02	
5	4.0	4.1	see p. 131
8	6.2	6.3	
9	6.8	6.9	
6	4.7	4.8	
10	7.2	7.3	
14		8.6	
11	7.7	7.8	
12	8.0	8.1	
88 9.0	7.2	7.3	
13	8.4	8.5	
5N	6.7	6.8	
4A	7.8	7.9	
6N	7.3	7.4	
15		9.0	
9N		9.3	
5A	7.7	7.8	
7N	7.7	7.8	
8N		8.4	
16		9.8	
88 105	6.3	6.4	
2N	4.1	4.2	
4N	6.2	6.3	
88 115	7.1	7.2	
88 2	6.1	6.2	

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1913phae.proj..991L

Series 41

YELLOW

DcW

June 14, 1913

		MC 2760 Sc 1	MC 2760 Sc 2	Li Bde	MC 2766 2' K.142	Diff.	Diff.	Y Curve	Y Magn.
88°	105	6.2	6.3	6.2	6.25 1 0			+1.93	8.18
88	90	7.1	7.2	7.4	7.30 1 1			1.69	8.99
	5p	6.5	6.6	6.5	6.55 0 1			1.86	8.41
	12	7.9	8.0	8.1	8.05 0 1	1.68	+1.53	1.57	9.62
	2p	4.1	4.2	3.9	4.05 2 1		9.1	2.65	6.70
	4p	6.1	6.2	5.9	6.05 2 1			1.98	8.03
88°	115	7.1	7.2	7.8	7.50 3 3			1.66	9.16
88°	2	6.2	6.3	6.1	6.20 1 1			1.94	8.14
	5	3.9	4.0	2.8	3.40 6 6	2.99	3.03	2.96	6.36
	16		9.7	7.	9.7 a.	1.56	1.24	1.33	11.03
	8	6.1	6.2	6.0	6.10 1 1	2.00	1.93	1.96	8.06
	8p		8.5	8.8	8.65 1 2			1.50	10.15
	9	6.7	6.8	7.1	6.95 2 1	1.75	1.79	1.76	8.71
	11	7.6	7.7	7.9	7.80 1 1	1.62	1.56	1.60	9.40
	14		8.6	8.7	8.65 0 1	1.87	1.59	1.50	10.15
	6p	7.2	7.3	7.4	7.35 1 0			1.69	9.04
	4p	7.9	8.0	8.1	8.05 0 1			1.56	9.61
	15		9.0	9.2	9.10 1 1	1.84	1.54	1.44	10.54
	10	7.0	7.1	7.3	7.20 1 1	1.69	1.68	1.71	8.91
	7p	7.7	7.8	8.1	7.95 2 1			1.58	9.53
	5p	7.8	7.9	8.1	8.00 1 1			1.57	9.57
	13		8.3	8.5	8.40 1 1	1.77	1.68	1.53	9.93
	9p		9.1	9.2	9.15 1 0			1.43	10.58
	6	4.6	4.7	4.4	4.55 1 2	2.43	2.43	2.43	6.98

chW

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1913phae.proj..991L

YELLOW

Dell

June 4, 1913

copied

Yellow alt. corr. −.15

MC 2761, Q3

Sc1 Sc2

			Curve	Magn.			Y Curve	Y Magn.	
Sub for b	1								
" " " "	2								
" " " "	3								
" " " "	4	2.7 2.8							
	5	2.0 2.1							
Bad image	6	6.2 ? 6.3	+1.91	8.21	+2.04	8.34	+1.92	8.22	
	9	7.5 7.6	1.76	9.36	1.62	10.22	1.64	9.24	
	8	7.2 7.3	1.79	9.09	1.71	9.01	1.69	8.99	
	9	7.5 7.6	1.76	9.36	1.62	9.22	1.64	9.24	
Bad image	10	7.7 ? 7.8	1.74	9.54	1.57	9.37	1.60	9.40	
	11	7.6 7.7	1.74	9.44	1.59	9.29	1.63	9.33	
	12	8.3	1.71	10.01	1.47	9.77	1.54	9.84	
	13	8.1 8.2	1.71	9.91	1.49	9.69	1.55	9.75	
	14	8.9	1.70	10.60	1.34	10.24	1.46	10.36	
	15	9.1	1.69	10.79	1.31	10.41	1.44	10.54	
	16	8.7	1.70	10.40	1.38	10.08	1.49	10.19	
	17	8.7 ?	1.70	10.40	1.38 ?	10.08 ?	1.49 ?	10.19 ?	
	18	9.9	1.69	11.59	1.12	11.02	E	.	
	19	N.S	.	.	.	.	.		
	7	4.3 4.4	2.49	6.89	2.67	7.07	2.50	6.90	

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1913phae.proj..991L

YELLOW

Sc W

June 14, 1913 Copied

C6 Yellow alt. cor. +.09

MC 2762 (δ 11 +15)

	Sc 1	Sc 2	Curve	Magn.	Y Curve	Y Magn.
Too far fr Ctr. 1	2.0	2.1				
" " " " 2	On edge.					
" " " " 3	4.7	4.3	+2.51	6.81	+2.69 (54)	6.84
4	5.4	5.5	2.11	7.61	2.13 (1)	7.63
" " " " 5	4.1	4.2	2.54	6.74	2.72 (58)	6.78
6	5.7	5.8	2.04	7.84	2.03 (05)	7.85
" " " " 7	6.3	6.4	1.90	8.30	1.90 (1)	8.30
8	4.9	5.0	2.28	7.28	2.28 (2)	7.28
9	5.8	5.9	2.01	7.91	2.03	7.93
10	5.2	5.3	2.19	7.49	2.18	7.48
11	7.3	7.4	1.78	9.18	1.68	9.08
12	6.3	6.4	1.90	8.30	1.90	8.30
13	6.8	6.9	1.82	8.72	1.77	8.67
14	7.6	7.7	1.75	9.45	1.63	9.33
15	6.8	6.9	1.82	8.72	1.77	8.67
16		8.5	1.70	10.20	1.52	10.02
17		8.9	1.70	10.60	1.46	10.36
18		9.3	1.69	10.99	1.40	10.70
19		8.6	1.70	10.30	1.50	10.10
20		9.1	1.69	10.79	1.44	10.54
21		9.0	1.70	10.70	1.44	10.44
22		9.8	1.69	11.49	1.30	11.10
23		?				

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1913phae.proj..991L

YELLOW

SeW

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MC 2763 (8h 11–15 Sodium)

MC 2764 (8h 12m +7.5) Y

a 2 Yellow alt. corr. +.08

	Sec 1	Sec 2	Curve	Magn.	Curve	Magn.	Pc
1	4.2	4.3	+2.51	6.81	+2.54	6.84	89
2	4.3	4.4	2.49	6.89	2.50	6.90	92
3			.	.	.	.	87
4	Onedge		.	.	.	.	
5			.	.	.	.	
6			.	.	.	.	
7	6.4	6.5	1.89	8.39	1.87	8.37	
8	6.9	7.0	1.80	8.86	1.76	8.76	
9	6.5	6.6	1.87	8.47	1.85	8.45	
10	6.7	6.8	1.83	8.63	1.79	8.59	
11	7.6	7.7	1.74	9.44	1.63	9.33	
12	7.5	7.6	1.76	9.36	1.64	9.24	
13	7.0	7.1	1.80	8.90	1.74	8.84	
14	7.9	8.0	1.72	9.72	1.59	9.57	
15	8.3		1.71	10.01	1.54	9.84	
16	8.2		1.71	9.91	1.55	9.75	
17	8.2		1.71	9.91	1.55	9.75	
18	n.s		.	.	.	.	
19	n.s		.	.	.	.	
20	n.s		.	.	.	.	

Just for Pc

" " " "

Off Pl.

" "

adopt.

See notes on N.S. Regions 8a = 8b =

Just for Sa

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1913phae.proj..991L

De W

YELLOW

June 14, 1913 Copied

MC 2765 (α 12h +45) B5 Yellow Alt. corr. +.12

		Sol	Sol	Curve	Magn.	PC Curve	Magn.
Too faint C	1	3.9	4.0	+2.61	6.61	9.0 +2.67	6.67
	2	5.1	5.2	2.21	7.41	+2.22	7.42
	3	6.0	6.1	1.98	8.08	1.96	8.06
	4	6.4	6.5	1.89	8.39	1.87	8.37
	5	6.5	6.6	1.87	8.47	1.85	8.45
Too faint C	6	5.3	5.4	2.15	7.55	2.16	7.56
" " " "	7	7.0	7.1	1.80	8.90	1.74	8.84
	8	6.4	6.5	1.89	8.39	1.87	8.37
	9	7.0	7.1	1.80	8.90	1.74	8.84
	10	7.6	7.7	1.74	9.44	1.63	9.33
Too faint C	11	6.3	6.4	1.90	8.30	1.90	8.30
	12	8.0	8.1	1.72	9.82	1.56	9.66
	13		8.7	1.70	10.40	1.49	10.19
	14		8.8	1.70	10.50	1.48	10.28
	15		8.5	1.70	10.20	1.52	10.02
	16		8.7	1.70	10.40	1.49	10.19
	17a		8.7	1.70	10.40	1.49	10.19
	17b,c		8.6	1.70	10.30	1.50	10.10
	18		9.8	1.69	11.49	1.30	11.10
	19		n.s				

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1913phae.proj..991L

S. W YELLOW June 14, 1913

MC 2766 (L Pole)

	Set 1	Set 2	
88° 90	7.3	7.4	See p. 137
88 105	6.1	6.2	
2π	3.8	3.9	9.1
4π	5.8	5.9	
88 115	7.7	7.8	
5π	6.4	6.5	
6	4.3	4.4	
11	7.8	7.9	
10	7.2	7.3	
16	F		
14		8.7	
88 2	6.0	6.1	
5	2.7	2.8	
8	5.9	6.0	
8π		8.8	
12		8.1	
9π		9.2	
7π	8.0	8.1	
6π	7.3	7.4	
9	7.0	7.1	
4A		8.1	
13		8.5	
15		9.2	
5A	8.0	8.1	

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1913phae.proj..991L

Sc W

June 24, 1913

AC 14100 L. Pole

	Sc 2	Diff.	Curve	Magn.	Ptg.-Ptm. white	Ptg.-Ptm. Red.
5	8.5	-2.07	-1.80	6.70	22	
6	8.8	-1.82	-1.80	7.00	08	
1π	7.4		-1.78	5.62		36
88° 2	9.5		-1.80	7.70		40
2π	8.4		-1.80	6.60		05
7	9.1	-1.71	-1.80	7.30	09	
3π	9.0		-1.80	7.20		44
87° 12	9.7					

+22
−17
3) +4
+.01

+41
−84
4) −43
−11

AC 14095 (L. Pole - Screen M)

			Curve	Magn.	Ptg.-Ptm. white	Ptg.-Ptm. Red
1π	7.0					
6	8.9	-1.72	-1.78	7.02	06	
5	8.2	-1.72	-1.68	6.52	04	
7	9.2	-1.81	-1.81	7.39	00	
3π	9.2		-1.81	7.39		25
2π	8.1		-1.66	6.44		11

~~14~~
~~16~~
3) ~~−~~
−.01

3) −10
−03

2) ~~−36~~
~~−18~~

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1913phae.proj..991L

Series 42

YELLOW

June 24, 1913

	Sec 1	Sec 2	Mc 2790 N49	Mc 2795 N153	Mean	Rind	Diff	Diff	Curve Magn.			
									+1.80 8.43	T.C.		Mean
5 P	6.4	6.5	6.6	6.8	6.63	1 0 2						
88 90	7.1	7.2	7.2	7.3	7.23	0 0 1			+1.73 8.96	9.1	9.0	9.05 10
6	4.9	5.0	4.8	5.0	4.93	1 1 1	+2.05	+2.05	2.13	7.06		
11	7.5	7.6	7.8	7.7	7.70	1 1 0	1.72	1.66	1.67	9.37		
4A	7.7	7.8	8.1	8.1	8.00	2 1 1			1.64	9.64		
6 P	7.2	7.3	7.7	7.5	7.50	2 2 0			1.70	9.20		
15	~~8.8~~	8.8	9.3	9.2	9.25	3 2 1	1.84	1.54	1.57	10.67		
88 2	6.0	6.1	6.0	6.1	6.07	0 1 0			1.88	7.95		
5	3.9	4.0	3.9	3.9	3.73	3 2 4	2.66	2.70	2.49	6.22		
8	6.1	6.2	6.2	6.2	6.17	0 0 1	1.93	1.86	1.87	8.04		
9	6.4	6.8	T.P.	6.9 T.P.	6.85	0 . 1	1.85	1.89	1.77	8.62		
88 105	6.1	6.2	6.1	6.1	6.13	1 0 0			1.87	8.00		
2 P	3.9	4.0	3.4	3.9	3.77	2 4 1			2.48	6.25		
4 P	5.9	6.0	5.3	5.9	~~5.57~~ 5.73	~~4 3~~ 3 4 2			1.94	7.67		
88 115	7.1	7.2	7.0	7.1	7.10	1 1 0			1.74	8.84		
10	7.0	7.1	7.3	7.1	7.17	1 1 1	1.72	1.71	1.74	8.91		
14	~~8.5~~	8.5	8.9	8.7	8.80	2 2 0	1.82	1.54	1.59	10.29		
5 A	7.7	7.8	8.3	8.1	8.07	3 2 0			1.64	9.71		
9 P	~~9.0~~	9.0	9.1	9.1	9.08	1 0 0			1.57	10.64		
13	8.1	8.2	8.5	8.3	8.33	1 2 0	1.84	1.75	1.62	9.95		
7 P	7.6	7.7	8.3	8.0	8.00	3 3 0			1.64	9.64		
8 P	8.3	8.4 8.35	8.3	8.6	8.52	1 1 1			1.60	10.12		
16	~~9.2~~	9.2	9.7	9.7	9.53	3 2 2	1.73	1.41	1.56	11.09		
17	~~9.5~~	9.5	.	.	9.5	a . .	1.99	1.54	1.56	11.06		
18	~~9.9~~	9.9	.	.	9.9	a . .	2.02	1.66	1.54	11.44		
12	7.7	7.8	8.1	8.1	8.00	2 1 1	1.73	1.58	1.64	9.64		

dw

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1913phae.proj.0011

YELLOW

De W

June 24, 1913 copied

MC 2786 λ 3h - 15° Curve Magn. D2 Yellow alt. corr. -.19

	Se 1	Se 2	Curve Magn.				
So far of C: 3	2.82.9		.	.	9.2	.	.
" " " " 4	6.36.4		+1.86	8.26		+2.01	8.41
" " " " 8	5.75.8		1.93	7.73		1.93	7.73
" " " " 10	J. P		.	.		.	.
1	4.64.7		2.18	6.88	9.9	2.17	6.87
2	5.15.2		2.03	7.23		2.05	7.25
6	5.75.8		1.93	7.73		1.93	7.73
5	4.84.9		2.10	7.00		2.13	7.03
16		8.6	1.79	10.39		1.60	10.20
7	6.36.4		1.86	8.26		1.83	8.23
15		9.2	1.83	11.03		1.57	10.77
14		8.9	1.80	10.70		1.59	10.49
13		8.4	1.79	10.19		1.61	10.01
9	6.76.8		1.82	8.62		1.78	8.58
17		9.2	1.83	11.03		1.57	10.77
12	7.67.7		1.79	9.49		1.67	9.37
11	7.47.5		1.80	9.30		1.70	9.20
18		9.9	1.91	11.81		1.54	11.44

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1913phae.proj..991L

YELLOW

ScW

June 24, 1913

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MC 2487 2h 4m +45° Y B2 Yellow alt. corr. +.12

	Sc1	Sc2	Curve	Magn.	Sc	Curve	Magn.
Too far to C. 2	5.9	6.0	+1.90	7.90		+1.89	7.89
" " " " 3	6.2	6.3	1.87	8.17		1.85	8.15
5	6.6	6.7	1.83	8.53		1.79	8.49
6	6.7	6.8	1.82	8.62		1.78	8.58
1	5.0	5.1	2.06	7.16	9.4	2.07	7.17
7	5.7	5.8	1.94	7.74		1.93	7.73
10	7.0	7.1	1.80	8.90		1.74	8.84
18		8.7	1.80	10.50		1.59	10.29
12	7.7	7.8	1.79	9.59		1.66	9.46
17	8.1	8.2	1.78	9.98		1.63	9.83
8	6.7	6.8	1.82	8.62		1.78	8.58
15		8.3	1.79	10.09		1.62	9.92
11	6.4	6.5	1.85	8.35		1.82	8.32
16	7.1	7.2	1.80	9.00		1.74	8.94
21		9.8	1.90	11.70		1.54	11.34
23		9.1	1.82	10.92		1.57	10.67
19		9.7	1.89	11.59		1.54	11.24
20		9.5	1.87	11.37		1.55	11.05
22	∓		.	.		.	.
13	7.7	7.8	1.79	9.59		1.66	9.46
14	7.8	7.9	1.78	9.68		1.65	9.55
9	7.1	7.2	1.80	9.00		1.73	8.93
4	6.0	6.1	1.90	8.00		1.87	7.97

no. of curve

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1913phae.proj..991L

YELLOW

De W

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Mn 2488 Sel Se2 L' 4h +75 Y a. Yellow alt. corr. +.08

		Sel	Se2	Curve	Magn.	P.C.	Curve	Magn.
Too far fr C.	5	3.8	3.9	+2.50	6.40	9.3	+2.43	6.33
	3	5.7	5.8	1.24	7.74		1.93	7.73
	1	7.2	7.3	1.80	9.10		1.73	9.03
	10	7.2	7.3	1.80	9.10		1.73	9.03
	11	6.4	6.5	1.85	8.35	No P.C. curve	1.82	8.32
	9	7.7	7.8	1.79	9.59		1.66	9.46
	16	6.7	6.8	1.82	8.62		1.78	8.58
	6		9.1	1.83	10.93		1.57	10.67
	17		9.7	1.90	11.60		1.54	11.24
	19		9.4	1.85	11.25		1.56	10.96
	18		9.9	1.92	11.82		1.54	11.44
	20		8.9	1.80	10.70		1.58	10.48
	14	4.9	5.0	2.09	7.09	9.9	2.10	7.10
	2	6.7	6.8	1.82	8.62		1.78	8.58
	7	7.5	7.6	1.79	9.39		1.69	9.29
	13	8.4	8.5	1.79	10.29		1.61	10.11
	12		8.7	1.80	10.50		1.60	10.30
	15	6.6	6.7	1.83	8.53		1.79	8.49
	8	4.1	4.2	2.38	6.58	9.5	2.34	6.54
	4							

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1913phae.proj..991L

SeW YELLOW

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MC 2489 2i 6 40 +45 Y B3 Yellow alt. corr. +.12

		Sc1	Sc2	Curve	Magn.	PC	Curve	Magn.
Iris far to C	1	B.				7.6	.	.
" " " "	2	3.2	3.3	.	.	8.4	.	.
" " " "	3	3.8		.	.	9.8	.	.
" " " "	7	5.8	5.9	+1.92	7.82		+1.91	7.81 R
	6	6.0	6.1	1.90	8.00		1.87	7.97
	14	7.3	7.4	1.80	9.20		1.72	9.12
	23	f		.	.		.	.
	22		9.5	1.87	11.37		1.55	11.05
	15	7.7	7.8	1.79	9.59		1.66	9.46
	16	7.2	7.3	1.80	9.10		1.73	9.03
	19		8.5	1.79	10.29		1.61	10.11
	21		8.9	1.80	10.70		1.58	10.48
	12	6.9	7.0	1.81	8.81		1.76	8.76
	20		9.4	1.86	11.26		1.56	10.96
	17		8.6	1.79	10.39		1.60	10.20
	18	7.3	7.4	1.80	9.20		1.72	9.12
	9	6.3	6.4	1.86	8.26		1.83	8.23
	4	5.6	5.7	1.96	7.66	9.9	1.95	7.65
	5	4.6	4.7	2.17	6.87	9.2	2.17	6.87
	10	7.5	7.6	1.79	9.39		1.69	9.29
	8	6.4	6.5	1.85	8.35		1.82	8.32
	13	7.3	7.4	1.80	9.20		1.72	9.12
	11	7.1	7.2	1.80	9.00		1.74	8.94

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1913phae.proj..991L

YELLOW

DeW

June 24, 1913

MC 2790 Li Polaris

	Sc 1	Sc 2	Pc
8	6.1	6.2	Sep. 144
9	3.8		
5	3.8	3.9	9.1
6	4.7	4.8	
88 2	5.9	6.0	
5 R	6.5	6.6	
15			9.3
88 90	7.1	7.2	
88 105	6.0	6.1	
2 R	3.3	3.4	
4 R	5.2	5.3	
88 115	6.9	7.0	
9 R			9.1
10	7.2	7.3	
11	7.7	7.8	
12	~~8.0~~	8.1	
14	~~8.9~~		8.9
13	~~8.5~~		8.5
16			9.7
4 P			8.1
6 R	7.6	7.7	
8 R	~~8.6~~		8.6
7 R	8.2	8.3	
5 P			8.3

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1913phae.proj..9911

SeW YELLOW June 24, 1913 Copied

MC 2791 2^1 20^h +75 Sawyer

MC 2792 2^1 5^h −15 Y D3 Yellow alt. corr. −.13

		Sc1	Curve	Magn.	Sc	Curve	Magn.
Sawyer C	2	5.8			8.7	.	.
" " " "	3	5.8	.	.	9.8	.	.
" " " "	5	5.15.2	+2.04	7.24		+2.05	7.25
" " " "	6	5.8	.	.		.	.
" " " "	7	5.8	.	.		.	.
	17	8.18.2	+1.78	9.98		+1.63	9.83
	4	4.3 4.4	2.29	6.69	9.7	2.27	6.67
	19	8.38.4	1.79	10.19		1.61	10.01
	12	5.0 5.1	2.06	7.16		2.07	7.17
	21		9.0 1.81	10.81		1.58	10.58
	16	8.0 8.1	1.78	9.88		1.64	9.74
	20		8.7 1.80	10.50		1.59	10.29
	22	f	.	.		.	.
	13	6.3 6.4	1.86	8.26		1.83	8.23
	18		8.9 1.80	10.70		1.58	10.48
	1	5.0 5.1	2.06	7.16		2.07	7.17
	11	5.7 5.8	1.94	7.74		1.93	7.73
	9	4.8 4.9	2.10	7.00		2.13	7.03
	14	7.6 7.7	1.79	9.49		1.67	9.37
	10	6.6 6.7	1.83	8.53		1.79	8.49
	8	4.3 4.4	2.29	6.69		2.27	6.67
	15	7.5 7.6	1.79	9.39		1.69	9.29

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1913phae.proj..991L

YELLOW

Sc W

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MC 2793 L 5+15 C3 Y Yellow alt. corr. +.08

	Sc1		Sc2	Curve	Mag.	PC	Curve	Mag.
5	6.0	6.1		+1.90	8.00		+1.87	7.97
6	6.2	6.3		1.87	8.17		1.85	8.15
10	6.0	6.1		1.90	8.00		1.87	7.97
7	6.4	6.5		1.85	8.35		1.82	8.32
11	6.3	6.4		1.86	8.26		1.84	8.24
8	5.9	6.0		1.90	7.90		1.89	7.89
25	†			.	.	P.C. curve	.	.
23			9.9	1.91	11.81	120	1.54	11.44
3	4.8	4.9		2.10	7.00	98	2.13	7.03
1	4.7	4.8		2.14	6.94	99	2.15	6.95
16	7.7	7.8		1.79	9.59		1.66	9.46
2	4.0	4.1		2.41	6.51	91	2.36	6.46
9	6.3	6.4		1.86	8.26		1.83	8.23
12	7.1	7.2		1.80	9.00		1.73	8.93
13	7.2	7.3		1.80	9.10		1.73	9.03
15	8.0	8.1		1.78	9.88		1.64	9.74
19			8.3	1.79	10.09		1.62	9.92
14	7.7	7.8		1.79	9.59		1.66	9.46
20			8.6	1.79	10.39		1.60	10.20
4	5.7	5.8		1.93	7.73		1.93	7.73
17	7.4	7.5		1.79	9.29		1.70	9.20
24			8.7	1.80	10.50		1.59	10.29
21			9.1	1.83	10.93		1.57	10.67
22			9.1	1.83	10.93		1.57	10.67
18			8.7	1.80	10.50		1.59	10.29

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1913phae.proj..991L

YELLOW

D. W

June 24, 1913

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MC 2794 Di 4h 20 +45 Y B4 Yellow alt. corr. +.09

		Sc1	Sc2	Curve	Magn.	Sc	No P.C. curve	Curve	Magn.
Toofan fr C.	2	7.8				9.9			
" " " "	4	7.8				9.9			
" " " "	5	7.8							
" " " "	6	7.8							
" " " "	7	7.8							
	3	3.1	3.2			8.4			
	11	7.1	7.2	+1.80	9.00			+1.74	8.94
	16	8.2	8.3	1.79	10.09			1.62	9.92
	1	4.9	5.0	2.10	7.10	9.7		2.10	7.10
	17		8.6	1.79	10.39			1.60	10.20
	14		8.2	1.78	9.98			1.64	9.84
	15	8.1	8.2	1.78	9.98			1.64	9.84
	22		9.3	1.90	11.70			1.54	11.34
	13	6.9	7.0	1.81	8.81			1.76	8.76
	8	5.9	6.0	1.90	7.90			1.89	7.89
	10	7.2	7.3	1.80	9.10			1.73	9.03
	12	7.2	7.3	1.80	9.10			1.73	9.03
	18		8.2	1.78	9.98			1.64	9.84
	9	6.1	6.2	1.89	7.09			1.86	8.06
	21		9.2	1.83	11.03			1.57	10.77
	23	N.S							
	19		8.7	1.80	10.50			1.59	10.29
	20		9.7	1.90	11.60			1.54	11.24

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1913phae.proj..991L

DcW YELLOW June 24, 1913

MC 2795 Li $\frac{h}{y}$ +15 - Dow poor.

MC 2796 Li Pole.
SC1 SC2 BC

See h.144

5π	6.7	6.8	
88 90	7.2	7.3	
6	4.9	5.0	
88 2	6.0	6.1	
5	3.2	3.3	9.0
8	6.0	6.1	
9	6.8	6.9	
88 105	6.0	6.1	
2π	3.8	3.9	
88 115	7.0	7.1	
4π	5.8	5.9	
10	7.0	7.1	
8p		8.6	
9π		9.1	
11	7.6	7.7	
4p	8.0	8.1	
12	8.0	8.1	
5p		8.1	
6π	7.4	7.5	
13		~~8.8~~	
14		8.7	
7π		8.0	
15		9.2	
16		9.7	

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1913phae.proj..991L

Sc. W YELLOW June 26, 1913 Y Y

MC 2803 S. Pole

		Sc 1	Sc 2	MC 2508 n 159	MC 2814 n 164	QC	Mean	Res.	Diff.	Diff.	Curve	Magn.
	5	2.7 2.8	2.8		2.9	9.3 9.2	2.83	0 0 1	+3.60 .56	+3.60	+364	6.47
88°	2	6.1 6.2	6.0		6.0		6.07	1 1 1			2.00	8.07
	8	6.0 6.1	6.0		6.1		6.07	0 1 0	2.03	1.96	2.00	8.07
	6	3.7 3.8	3.7		3.9		3.80	0 1 1	3.18	3.18	3.10	6.90
	9	6.8 6.9	6.8		6.9		6.87	0 1 0	1.83	1.87	1.78	8.65
Sw for fp C	88° 115	S. B	T.P.		T.P.		.				.	.
	2 n	3.0 3.1	2.8		3.0	~~4.0~~ 4.0	2.97	1 2 0			3.58	6.55
	4 n	5.9 6.0	T.P.		5.0		5.50	5 . 5			2.25	7.75
Sw for fp C	88° 105	S.B	T.P.		T.P.		.	. .			.	.
" " "	88 90	S.B	T.P.		T.P.		.	. .			.	.
Orimage.	5 n	6.3 6.4	6.3		6.3		6.33	1 0 0			1.93	8.26
	10	7.1 7.2	7.2		7.1		7.17	0 0 1	1.72	1.71	1.73	8.90
	14	8.9 9.0 8.95	8.9		9.0	8.9	8.95	1 0 1	1.57	1.49	1.30	10.25
	6 n	7.2 7.3	7.3		7.3		7.30	0 0 0			1.67	8.97
	15	9.7	9.8		9.3		9.60	1 2 3	1.34	1.04	1.14	10.74
	4 n	8.1	8.3		8.2		8.20	1 1 0			1.46	9.66
	7 n	8.1	8.2		8.1		8.13	0 1 0			1.47	9.60
	11	7.6 7.7	7.8		7.7		7.73	0 1 0	1.69	1.63	1.56	9.29
	8 n	8.7	8.9		8.9		8.83	1 1 1			1.32	10.15
	12	8.1	8.2		8.1		8.13	0 1 0	1.60	1.45	1.48	9.61
	5 n	8.2	8.2		8.2		8.20	0 0 0			1.46	9.66
	13	8.5	8.7		8.5		8.57	1 1 1	1.60	1.51	1.38	9.95
	9 n	.	9.9		.		9.9	. a .			1.08	10.98
	16	.	.		9.7		9.7	. . a	1.56	1.24	1.12	10.82

cW

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Sc W YELLOW

copied June 26, 1913

MC 2804 L1 ½ +45 B5 Yellow act. corr. +12

	Sc1	Sc2	P.C	Curve	Magn.
3	5.7	5.8		+2.11	7.91
15		8.7		1.35	10.05
6	4.9	5.0		2.48	7.48
11	6.1	6.2		1.96	8.16
7	6.8	6.9		1.87	8.67
1	2.7	2.8	8.7	3.67	6.47
5	6.4	6.5		1.87	8.37
16		8.9		1.31	10.21
12	8.1	8.2		1.46	9.66
10	7.6	7.7		157	9.27
9	6.9	7.0		1.76	8.76
17a		8.7		1.35	10.05
2	5.0	5.1		2.43	7.53
4	6.3	6.4		1.90	8.30
13		8.6		1.38	9.98
18		9.7		1.08	10.98
14		9.0		1.25	10.25
8	6.3	6.4		1.90	8.30
17b		9.1		1.25	10.35
19					

2nd P.C. curve

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YELLOW

ScW

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ME 2805 Δi 12 +7.5 Y Q 2 Yellow alt. corr. +.08

		Sc1	Sc2	g.c	Curve	Magn.
Profanfe C	3	2.0	2.1	8.5	.	.
" " " "	4	7.8		8.5	.	.
" " " "	5	7.8			.	.
" " " "	6	7.8			.	.
" " " "	11	7.2	7.3	no p.c. curve	+1.68	8.98
	10	6.9	7.0		1.76	8.76
	7	5.1	5.2		2.39	7.59
	8	6.7	6.8		1.80	8.60
	2	4.3	4.4	8.5	2.78	7.18
	15	8.1	8.2		1.46	9.66
	18		9.3		2.10	11.90
	12	7.8	7.9		1.53	9.43
	14	8.0	8.1		1.48	9.58
	16		8.3		1.44	9.74
	20		9.9		1.08	10.98
	19	7.5			.	.
	9	6.8	6.9		1.77	8.67
	1	4.3	4.4	8.9	2.78	7.18
	13	7.3	7.4		1.65	9.05

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YELLOW

DeW

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MC 2806 $2^{h}\ 13^{m} - 15^{s}$ D7 Yellow alt. corr. −10

		Sc 1	Sc 2	Corr	Magn.	GC
Too far fr C	1	2.9	3.0	+3.56	6.56	
" " " "	2	Hy film?		.	.	
" " " "	3	F.P		.	.	
" " " "	6	3.7	3.8	3.10	6.90	
" " " "	7	F.P		.	.	
" " " "	8	5.3	5.4	2.30	7.70	
" " " "	9	5.1	5.2	2.39	7.59	
" " " "	10	6.8	6.9	1.77	8.67	
" " " "	11	7.6	7.7	1.57	9.27	
	4	5.3	5.4	2.30	7.70	
	14	6.8	6.9	1.77	8.67	
	19		9.0	1.28	10.28	
	16	7.2	7.3	1.68	8.98	
Defective	13			.	.	
	18		9.2	1.24	10.44	
	17		8.3	1.44	9.74	
	15	8.1	8.2	1.46	9.66	
	20		9.0	1.28	10.28	
	12	7.3	7.4	1.66	9.06	
	5	4.9	5.0	2.49	7.49	

wr. star marked * measured.
Corrected on pl. O. July 11/17.

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YELLOW

SeW

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YMC 2804 L' 13+15 C7 Yellow alt. corr. +.09

	Sc1	Sc2	Curve	Magn.
So far as C 1	5.8		.	.
" " " " 2	5.8		.	.
" " " " 3	5.0	5.1	+2.43	7.53
" " " " 9	8.7	8.8	1.33	10.13
7	6.9	7.0	1.76	8.76
10	8.4	8.5	1.40	9.90
5	5.3	5.4	2.29	7.69
8	7.6	7.7	1.57	9.27
13		8.9	1.31	10.21
6	6.4	6.5	1.86	8.36
4	5.7	5.8	2.11	7.91
14		8.7	1.35	10.05
11	6.8	6.9	1.77	8.67
16		9.2	1.24	10.44
15		9.0	1.28	10.28
12	7.9	8.0	1.51	9.51
17	n.s. ?		.	.
18		9.8	1.10	10.90

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1913phae.proj..991L

YELLOW

De W

June 26, 1913

WC 2808 Li Bde.

	Sec 1	Sec 2	BC	
88 115	7.8			see p. 154
2r	2.7	2.8	9.0	
4r	7.8			
88 105	7.8			
88 90	7.8			
88 2	5.9	6.0		
5	2.7	2.8	9.2	
8	5.9	6.0		
9	6.7	6.8		
6	3.6	3.7		
5r	6.2	6.3		
10	7.1	7.2		
14	9.0		9.0	
6r	7.2	7.3		
8r			8.9	
15			9.8	
4p			8.3	
11	7.7	7.8		
5p	8.1	8.2		
12			8.2	
7r	8.1	8.2		
13			8.7	
9r			9.9	

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1913phae.proj..991L

YELLOW

DeW

June 26, 1913

MC 3809 L 2K Y

	Sc 1.	Sc 2		
1	6.1	6.2	+1.96	8.16
2	5.3	5.4	2.29	7.69
3	7.6	7.7	1.57	9.27
4	6.3	6.4	1.90	8.30
5		8.3	1.44	9.74
6		9.3	1.21	10.51
7		9.2	1.24	10.44
8		9.9	1.08	10.98

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YELLOW

De W

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Yellow alt. corr. +.13

MC 2810 h 14 40 +45 B6

	Se 1	Se 2		Curve	Magn.
Isofactor C	2	B	8.7	·	·
" " "	3	B	8.9	·	·
" " "	4	2.2 2.3	8.1	ε	·
" " "	5	7.8		·	·
	6	5.0 5.1		+2.43	7.53
	4	5.7 5.8		2.11	7.91
	1	7.1 4.2	9.3	2.88	7.08
	20	9.7		1.12	10.82
	17	8.1		1.48	9.58
	8	6.0 6.1		1.98	8.08
	11	7.1 7.2		1.71	8.91
	13	7.7 7.8		1.55	9.35
	19	9.1		1.25	10.35
	12	7.1 7.2		1.71	8.91
	16	8.0 8.1		1.48	9.58
	14	8.6		1.37	9.97
	15	8.7		1.42	9.82
	18	8.8		1.34	10.14
	9	6.7 6.8		1.80	8.60
	10	7.0 7.1		1.74	8.84

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YELLOW

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MC 2811 L 15 +15 C8 Y Yellow Alt. corr. +.10

Two forty C

		Sv1.	Sv2	Curve	Magn.	
	2	3.7	3.8	+3.10	6.90	
" " " "	4	Off film.		.	.	
" " " "	7	Off film		.	.	
" " " "	1	4.9	5.0	+2.48	7.48	
	17	7.6	7.7	1.57	9.27	
	13	6.9	7.0	1.76	8.76	
	15		8.2	1.46	9.66	
	10	7.5	7.6	1.60	9.20	
	3	6.2	6.3	1.93	8.23	Remeas. by O. July 5, 1917.
	6	5.2	5.3	2.34	7.64	6.1 — 5.2
	12	6.7	6.8	1.80	8.60	6.8 No error in ident; also
	18		8.9	1.31	10.21	No error in mig. meas of
	19		8.3	1.44	9.74	no. 6.
	16		8.7	1.35	10.05	
	14	7.8	7.9	1.53	9.43	
	11	7.3	7.4	1.66	9.06	
	20	8.0	8.1	1.48	9.58	
	8	5.7	5.8	2.11	7.91	
	5	4.1	4.2	2.88	7.08	
	9	6.1	6.2	1.96	8.16	

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1913phae.proj..991L

YELLOW

SeW

June 26, 1913 copied

Mc 2812 l' $\frac{h}{15} + 15$ Yellow plate — Yellow alt. corr. +.08.

Mc 2813 l' 17 + 15 Cg

	Sec1	Sec2	Curve	magn.
1	4.2	4.3	+2.83	7.13
2	4.2	4.3	2.83	7.13
6	5.9	6.0	2.03	8.03
8	6.6	6.7	1.83	8.53
5	5.9	6.0	2.04	8.04
4	4.8	4.9	2.53	7.43
9	7.8	7.9	1.54	9.44
13	8.0	8.1	1.48	9.58
18	9.5?		1.16	10.66?
15	8.4		1.42	9.82
16	9.8		1.10	10.90
11	6.8	6.9	1.77	8.67
12	7.6	7.7	1.57	9.27
14	8.7		1.35	10.05
7	5.8	5.9	2.06	7.96
3	4.3	4.4	2.78	7.18
10	8.3		1.44	9.74
17	N.S. ?			

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1913phae.proj..991L

DeW YELLOW June 26, 1913

MC 2814 Pole.

	Sec 1	Sec 2	
88° 115	5.8		Sec/n.154
4n	4.9	5.0	
2n	2.9	3.0	
88° 105	5.8		
88 90	5.8		
5n	6.2	6.3	
5	2.8	2.9	
8	6.0	6.1	
88° 2	5.9	6.0	
6	3.8	3.9	
9	6.8	6.9	
6n	7.2	7.3	
10	7.0	7.1	
4p	8.2		
15	9.3		
14	8.9		
8n	8.9		
11	7.6	7.7	
5p	8.2		
12	8.1		
7n	8.1		
13	8.5		
16	9.7		

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1913phae.proj..991L

Sc R Electric Light Sept 17, 1913

	Sc1 #757		Sc2		P.167			Sc1 #458		Sc2			P.167	Mean		
1	7.2	7.5			7.4	7.45	10	10.1	10.4	10.5	10.45	01	10.2	10.32	13	12
2	7.2	7.5			7.4	7.45	10	10.1	10.4	10.3	10.35	01	10.3	10.32	03	02
3	8.1	8.4			8.6	8.50	11	10.0	10.3	10.5	10.40	11	10.2	10.30	10	10
4	8.2	8.5			8.6	8.55	10	10.0	10.3	10.3	10.30	00	10.2	10.25	05	05
5	10.0	10.3	10.4	10.35	10.2	10.28	07	08	9.0	9.3	9.3	9.30	00	9.2	9.25	05	05
6	10.1	10.4	10.5	10.45	10.3	10.38	07	08	9.1	9.4	9.5	9.45	01	9.3	9.38	07	08
7	9.3	9.6	9.7	9.65	9.7	9.42	03	02	7.2	7.5				7.5	7.50	00	00
8	9.3	9.6	9.7	9.65	9.7	9.68	03	02	7.2	7.5				7.5	7.50	0	0
9	9.1	9.4	9.5	9.45	9.4	9.42	03	02	9.3	9.6	9.7	9.65	01	9.5	9.58	07	08
10	9.1	9.4	9.5	9.45	9.4	9.42	03	02	9.3	9.6	9.7	9.65	01	9.4	9.58	07	13 12
11	9.1	9.4	9.6	9.50	9.5	9.50	00	00	9.3	9.6	9.7	9.65		9.5	9.58	07	08

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1913phae.proj..991L

Sc. R. Sept 15, 1913

	* Sc 1	* #761 Sc 2	P.168		Sc 1	* #763 Sc 2	P.168	
1	8.8 4		8.4	8.40 00	9.4 9.7		9.6	9.65 10
2	8.0 8.3		8.2	8.25 10	9.4 9.7		9.6	9.65 10
3	9.2 9.5 9.7	9.60 11	9.4	9.50 11	10.3 10.6		10.5	10.55 01
4	9.3 9.6 9.7	9.65 01	9.5	9.58 07 08	10.5 10.8		10.7	10.75 01
5	10.3 10.6 10.7	10.65 01	10.5	10.58 07 08		12.3	12.2	12.25 10
6	10.7 11.0 11.0	11.00 00	10.9	10.95 05 05		12.5	12.3	12.40 11
7	10.3 10.6 10.7	10.65 01	10.5	10.58 07 08		12.3	12.3	12.30 00
8	10.3 10.6 10.7	10.65 01	10.5	10.58 07 08		12.5	12.3	12.40 11
9	9.0 9.3 9.3	9.30 00	9.1	9.20 10 10	9.7 10.0		9.8	9.90 11
10	9.4 9.6 9.7	9.65 01	9.5	9.58 07 08	9.7 10.0		9.9	9.95 01
11	9.3 9.6 9.7	9.65 01	9.5	9.58 07 08		11.3	11.2	11.25 10
12						11.5	11.3	11.40 11
13						11.3	11.3	11.30 00
14						11.0	11.0	11.00 00

"Rate fogged." (761)

*Electric Light-used in measuring above.

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1913phae.proj..991L

Su. R

Sept 16, 1913

	#756		#757	
	Su1		Su1	
1	9.9	10.2	7.1	7.4
2	10.0	10.3	7.1	7.4
3	9.9	10.2	8.3	8.6
4	9.9	10.2	8.3	8.6
5	8.9	9.2	9.9	10.2
6	9.0	9.3	10.0	10.3
7	7.2	7.5	9.4	9.7
8	7.2	7.5	9.4	9.7
9	9.2	9.5	9.1	9.4
10	9.1	9.4	9.1	9.4
11	9.2	9.5	9.2	9.5

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1913phae.proj..991L

Sc R

Sept 16, 1913

	#761 Sc 1		#4163 Sc 1	Sc 2
1	8.1	8.4	9.3	4.6
2	7.9	8.2	9.3	9.6
3	9.1	9.4	10.2	10.5
4	9.2	9.5	10.4	10.7
5	Sc 2 10.5			12.2
6	10.9			12.3
7	10.5			12.3
8	10.5			12.3
9	Sc 1 8.8	9.1	9.5	9.8
10	9.2	9.5	9.6	9.9
11	9.2	9.5		11.2
12				11.3
13				11.3
14				11.0

Plate fogged.

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1913phae.proj..991L

Sc R

Sept 16, 1913

	H 765 Sol	Sc 2	Pk 45:32			H 766 Sol	Sc 2	Pk 45:31			
1	9.2	9.5	9.6	9.55	1 0	8.2	8.5	8.85	8.68	18	17
2	9.2	9.5	9.6	9.55	1 0	8.3	8.6	8.85	8.78 (21)	12	13
3	10.1	10.4	10.4	10.40	0 0 dbl	10.1	10.4	·	10.4	a	·
4	10.1	10.4	10.3	10.35	0 1 "	10.2	10.5	·	10.5	a	·
5		12.1	12.0	12.05	1 0		12.0	12.0	12.00	0	0
6		12.1	12.1	12.10	0 0		12.2	12.1	12.15	0	1
7		11.8	12.0	11.90	1 1		12.0	12.0	12.00	0	0
8		11.8	12.0	11.90	1 1		12.2	12.1	12.15	0	1
9	10.3	10.6	10.7	10.65	0 1	10.3	10.6	10.7	10.65	0	1
10	10.3	10.6	10.7	10.65	0 1	10.3	10.6	10.7	10.65	0	1
11	10.3	10.6	10.6	10.60	0 0	10.3	10.6	10.7	10.65	0	1

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1913phae.proj..991L

Sc R

Sept 16, 1913

	H 770 Bk 45:31				H 771 Bk 45:30				
1	10.4	10.7	11.0	10.85	1 2	9.1 9.4	9.30	9.35	05 05
2	10.1	10.4	10.5	10.45	01	9.1 9.4	9.30	9.35	05 05
3	10.1	10.4	10.5	10.45	01	10.3 10.6	10.7	10.65	0 1
4	10.1	10.4	10.5	10.45	01	10.5 10.8	11.0	10.90	1 1
5	9.2	9.5	9.5	9.50	00	10.3 10.6	10.7	10.65	0 1
6	9.2	9.5	9.5	9.50	00	10.1 10.4	10.5	10.45	01
7	8.1	8.4	8.30	8.35	1 1	9.3 9.6	9.30	9.45	2 1
8	8.1	8.4	8.35	8.38	02 03	9.3 9.6	9.30	9.45	2 1
9	9.1	9.4	9.3	9.35	0 1	8.0 8.3	8.35	8.32	02 03
10	9.1	9.4	9.3	9.35	0 1	7.9 8.2	8.2	8.20	0 0

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1913phae.proj..991L

Sa R

Sept 16, 1913

Sol	H 772				H 773				
1	7.3	7.6	7.5	7.55 01	9.3	9.6	10.1	9.85	23
2	7.4	7.7	7.6	7.65 10	9.8	10.1	10.4	10.25	12
3	9.1	9.4	9.2	9.30 11	9.4	9.7	10.3	10.00	33
4	9.1	9.4	9.1	9.25 21	9.9	10.2	10.1	10.15	01
5	10.3	10.6	10.8	10.70 11	9.2?	9.5?	?	9.5?	
6	10.3	10.6	10.7	10.65 01	9.0?	9.3?	?	9.3?	
7	10.0	10.3	10.3	10.30 00	10.1	10.4	10.7	10.55	21
8	10.1	10.4	10.3	10.35 01	10.5	10.8	11.0	10.95	11
9	9.0	9.3	9.25	9.28 02 03	10.0	10.3	10.3	10.30	00
10	9.1	9.4	9.25	9.32 08 01	10.0	10.3	10.3	10.30	00
11	10.0	10.3	10.3	10.30 00	9.2?	9.5?	?	9.5?	
12	10.3	10.6	10.7	10.65 01	9.1	9.4	9.3?	9.35?	01
13	10.0	10.3	10.3	10.30 00	7.2	7.5	7.6	7.55	10
14	10.0	10.3	10.2	10.25 10	7.3	7.6	7.6	7.60	00

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1913phae.proj..991L

Sc. R

Sept 17, 1913

	H774				H775			
1	7.1 7.4	7.4	~~7.35 ±2~~	7.40 00	10.3	10.6	10.7	10.65 01
2	7.2 7.5	7.4	~~7.30 ±1~~	7.45 10	10.5	10.8	11.0	10.90 11
3	9.1 9.4	t.f.	~~9.1~~	9.4	10.1	10.4	10.3	10.35 01
dbl. 4	9.3 9.6	"	~~0~~	9.6	10.0	10.3	10.1?	10.20 11
5	10.3 10.6	10.7		10.65 01	9.0	9.3	9.20	9.25 10
6	10.5 10.8	10.9		10.85 01	9.0	9.3	9.20	9.25 10
7	10.0 10.3	10.3		10.30 00	8.0	8.3	8.25	8.28 02 03
8	9.8 10.1	10.2		10.15 ±0	8.0	8.3	8.20	~~8.25~~ 8.23 03
9	9.1 9.4	9.30		9.35 05 05	9.1	9.4	9.6	9.50 11
10	9.1 9.4	9.30		9.35 05 05	9.2	9.5	9.6	9.55 10

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10.cpher.proj.001

Sc R

Sept 17, 1913

H776 P.211

	Sol	Sol			
1	7.0	7.3	7.4	7.35	1 0
2	7.2	7.5	7.5	7.50	0 0
dbl 3	9.1	9.4	9.5	9.45	0 1
" 4	9.0	9.3	9.3?	9.30'	0 0
5		11.3	11.7	11.50	± 2
6		11.5	11.9	11.70	± 2
7		11.0	11.3	11.15	± 1
8		11.0	11.3	11.15	± 1
9	9.1	9.4	9.4	9.40	0 0
10	9.1	9.4	9.5	9.45	
11					

H777 P.212

10.1	10.4	10.5	10.45	0 1
10.5	10.8	10.9	10.85	0 1
10.1	10.4	10.4	10.40	0 0
9.9	10.2	10.5	10.35	± 2 1
9.0	9.3	9.3	9.30	0 0
9.0	9.3	9.3	9.30	0 0
7.2	7.5	7.4	7.45	1 0
7.3	7.6	7.5	7.55	0 1
9.2	9.5	9.6	9.55	1 0
9.3	9.6	9.7	9.65	0 1
9.3	9.6	9.7	9.65	

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Sc R

Sept 17, 1913

Sc	H778			Sc	H779		
1	7.2 7.5	7.5	7.50 00	10.3	10.7	10.50 2 2	
2	7.3 7.6	7.6	7.60 00	10.3	10.7	10.50 2 2	
3	9.1 9.4	9.4	9.40 00	10.0	10.5	10.25 2 3	
4	9.0 ?9.3	?	9.3?	9.9	10.2	10.05 1 2	
5	10.1 10.4	10.5	10.45 01	9.1	9.5	9.30 2 2	
6	10.5 10.8	11.0	10.90 1 1	9.1	9.5	9.30 2 2	
7	9.8 10.1	10.2	10.15 1 0	7.1	7.5	7.30 2 2	
8	10.0 10.3	10.5	10.40 1 1	7.0	7.6	7.30 3 3	
9	9.4 9.7	9.7	9.70 00	9.5	9.8	9.65 1 2	
10	9.4 9.7	9.8	9.75 1 0	9.5	9.8	9.65 1 2	

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Sc. R

Sept 22 1913

H 764 Pole

	Sc 1	Sc 2
14	6.1	
15	6.4	
16	7.1	
17	7.7	
18	8.2	
19	9.1	
20	9.4	
23	10.0	11.1
25		12.2
26		12.7
27		13.4
28		13.8

H 768 (m5)

	Sc 1	Sc 2
a	6.7	
b	7.6	
c	9.6	
d	10.2	
e		12.1
f		12.7
g		13.2
h		13.7
i		14.0

Reject above measures. Remeasure using Sc. R. according to recent instructions by H.S.L. Sept 24, 1913

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1913phae.proj..991L

Sa R

Sept 22, 1913

#769

	Sc 1	Sc 2
14	6.1	
15	6.4	
16	7.1	
17	7.6	
18	8.3	
19	9.1	
20	9.6	
23	10.1	
25	~~10.7~~	12.3
26		12.7
27		12.8
28		12.8

Right →

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1913phae.proj..991L

Sc R

Sept 23, 1913

H 752 Pole

	Sc 1	Sc 2
14	6.0	
15	6.3	
16	6.9	
17	7.3	
18	8.1	
19	9.1	
20	9.3	
26	9.8	
25		11.5
26		Scattered
27		12.7
28		13.3

H 753 (M5)

	Sc 1	Sc 2
a	6.1	
b	6.9	
c	8.5	
d	9.3	
e	9.9	
f	10.3 ~~to~~	
g		12.1
h		12.7
l		13.0
m		13.0
n		13.7

Right above measures - Remeasure using Sc R according to instructions written by H.S.L. Sept 24-1913

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1913phae.proj..991L

S. & R.

Sept 24, 1913

11-

H 754 Pole

	sc.1	sc.2	
14	5.2	5.5	5.5
15	5.7	6.0	6.0
16	6.3	6.6	6.6
17	6.9	7.2	7.2
18	7.4	7.7	7.7
19	8.1	8.4	8.3 8.35
20	8.7	9.0	9.1 9.05
23		10.2	10.2
25		11.2	11.2
26		12.1	12.1
27		12.7	12.7
28		13.3	13.3

H. 753

m5-

	sc.1	sc.2	
a	6.1	6.4	6.4
b	6.8	7.1	7.1
c	8.3	8.6	8.7 8.65
d		9.8	9.8
e		10.3	10.3
f		11.0	11.0
g		12.1	12.1
h		12.7	12.7
k			-
l		13.0	13.0
m		13.1	13.1
n		13.5	13.5
o		13.7	13.7
p		14.0	14.0

H mor.

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1913phae.proj..991L

Scale R. September 25, 1913.

*)+75821 Pole.

	sc.1	sc.2	
14	5.9	6.2	6.2
15	6.3	6.6	6.6
16	7.1	7.4	7.4
17	7.2	7.5	7.5
18	7.8	8.1	8.1
19	8.3	8.6	9.0 8.80
20	8.7	9.0	9.3 9.15
23		11.0	11.0
25		11.7	11.7
26		scratched. —	
27		13.0	13.0
28		13.4	13.4

* Plate is fogged. Images are poor. hazy.

M 912.

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1913phae.proj..991L

Scale R. September 24, 1913.

	H 769 Pole			H 768 m5		
	sc.1	sc.2		sc.1	sc.2	
14	6.1	6.4	6.4	a 6.2	6.5	6.5
15	6.4	6.7	6.7	b 7.1	7.4	7.4
16	7.1	7.4	7.4	c	9.9	9.9
17	7.3	7.6	7.6	d	10.9	10.9
18	8.7	9.0	9.00	e	12.1	12.1
19	9.0	9.3	9.50	f	12.7	12.7
20		10.1	10.1	g	13.1	13.1
23		11.1	11.1	h	13.5	13.5
25		12.1	12.1	i	13.9	13.9
26		13.0	13.0	m	? (var?)	–
27		13.5	13.5	n	?	–
28		n.S.	–			

m.O.R.

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1913phae.proj..991L

Scale R

September 24, 1913.

H 767

	pc.1	pc.2	
14	6.1	6.4	6.4
15	6.6	6.9	6.9
16	6.9	7.2	7.2
17	7.8	8.1	8.1
18	8.1	8.4	8.55
19	9.0	9.3	9.30
20		10.0	10.0
23		~~11.1~~	11.1
25		12.1	12.1
26		12.8	12.8
27		13.3	13.3
28		13.9	13.9

M.O.R.

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1913phae.proj..991L

Scale R. Sept 26, 1913

H 767 Pole. H 768 M 5'

	Sc. 1	Sc 2			Sc. 1	Sc 2	
14	6.2	6.5'	6.5'	a	6.3	6.6	6.6
15	6.7	7.0	7.0	b	7.2	7.5'	7.5'
16	7.1	7.4	7.4	c	9.4	9.7	9.55'
17	9.7	8.0	8.0	d	11.1		11.1
18	8.1	8.4	8.6 8.50	e	11.9		11.9
19	9.2	9.5'	9.7 9.60	f	12.7		12.7
20		10.0	10.1 10.05'	g	13.2		13.2
23		10.7	11.0 10.85'	h	13.8		13.8
25		H8 12.1	12.1	i	14.1		14.1
26		12.8	12.8	m			-
27		13.3	13.3	n			-
28		13.8	13.8				

m O.R.

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1913phae.proj..991L

Scale R. September 26, 1913.

H 752 P

	Sc. 1	Sc. 2	
14	5.8	6.1	6.1
15	6.8	6.7	7.05
16	7.1	7.4	7.4
17	7.6	7.9	7.9
18	8.0	8.3	8.30
19		9.1	9.1
20		9.6	9.6
23		10.9	10.9
25		11.9	11.9
26		scratched.	–
27		13.3	13.3
28		13.9	13.7 13.80

H 769 P.

	Sc. 1	Sc. 2	
14	6.1	6.4	6.4
15	6.6	6.9	6.9
16	7.3	7.6	7.6
17	7.8	7.6	7.6
18	8.3	8.6	8.80
19	9.0	9.3	9.30
20		10.1	10.1
23		11.2	11.2
25		12.2	12.2
26		13.1	13.1
27		13.7	13.7
28		n.s.	–

Image too poor.

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1913phae.proj..991L

Scale R

September 26, 1913.

H 7853 M5

	Rec.1	Rec.2	
a	6.1	6.4	6.4
b	6.6	6.9	6.9
c	8.7	9.0 8.9	8.95
d		10.0	10.0
e		10.7	10.7
f		11.1	11.1
g		12.0	12.0
h		12.7	12.7
l		13.0	13.0
m		13.2	13.2
n		13.7	13.7
o		14.0	14.0
p		15.	–

H 754 Pole.

	Rec.1	Rec.2	
14	5.2	5.5	5.5
15	5.6	5.9	5.9
16	6.8	6.7	6.7
17	7.2	7.5	7.5
18	7.7	8.0	8.0
19	8.2	8.5 8.6	8.55
20	8.8	9.1 9.1	9.10
23		10.1	10.1
25		11.1	11.1
26		12.1	12.1
27		12.7	12.7
28		13.3	13.3

M.3.5

MOR.

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Measures of Seq for B3 = 6 40 +45.0

Scale 0. September 26, 1913.

ME 240 3 T B3

Following images Corr. for refr. +.06
" alt +.04

	St. Seq.	sc. 1			Polar Seq.			
1	4.1	2.30	6.40	1N	4.1	+2.30	6.40
2	4.4	2.22	6.62	2N	5.2	2.08	7.28
3	4.7	2.16	6.86	3N	6.2	2.00	8.20
4	5.2 5.20 5.2	2.08	7.28	4N	7.0	2.00	9.00
5	4.9 4.95 5.0	2.11	7.06	5N	8.1	2.10	10.20
6	5.1 5.50 5.3	2.04	7.54	6N	~~7.7~~ 8.1	2.10	10.20
7	5.3 5.45 5.6	2.04	7.49	3	3.1	+2.64	
8	6.2	2.00	8.20	4	3.3	+2.61	
9	6.8	2.00	8.80	5	4.2	+2.19	
10	7.1	2.00	9.10	6	4.8	+2.18	
11	8.1	2.00	9.10	7	5.1	+2.08	
12	7.7	2.07	9.77	8	6.1	+2.00	
13	8.2	2.11	10.31	9	6.8	+1.90	
14	8.1	2.10	10.20	10	~~6.8~~ 7.0	1.89	
15	8.5	2.16	10.66	11	7.3	+2.12	
16	9.1 9.05 9.0	2.25	11.30	12	7.7	+2.03	
17	8.7 8.75 8.8	2.20	10.95	13	8.0	+2.17	
18	9.2	2.28	11.48	14	8.3	+2.22	
19	9.2	2.28	11.48	15	8.7	+2.24	
20	↓			16	9.0	+2.26	
21				17	9.3	+2.19	
22				7N	8.2		
				8N	9.0		
				9N	↓		

MOR

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1913phae.proj..991L

Series 2826 – 2831

Scale 1

10:25

September 29, 1913.

MC 2826

P.C.

	MC 2826			diff.	P.C.				
5					5.6	5.5	5.55	01	+0.84
6					6.2	6.2	6.20	00	0.78
8					7.7	7.6	7.65	10	0.45
9	MC 2831 R. 1888				8.6	8.5	8.55	01	0.15
10	4.7	4.9	4.80	11 4.09	9.0	8.7	8.85	21	0.04
11	5.2	5.3	5.25	01 4.17	9.3	9.30	9.30	00	0.12
12	5.7	5.7	5.70	00 4.03	9.8	9.60	9.70	10 10	0.03
13	6.2	6.2	6.20	00 3.97	7	9.95	9.95	00	0.22
14	6.6	6.6	6.60	00 3.92					
15	7.1	6.8	6.95	12 3.99					
16	7.4	7.1	7.25	21 4.01					
17	7.7	7.3	7.50	22 3.99					
18	8.0	7.7	7.85	21 4.07					
19	8.2	8.2	8.20	00 4.08					
20	8.5	8.5	8.50	00 4.09					
23	9.1	8.7	8.90	22 4.30					
25	9.5	9.35	9.42	08 07 4.31					
26	9.7	9.85	9.78	08 07 4.41					

Plotted O.

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Series 2826–2831.

Scale X. Copied on sheets. September 29, 1913. Copied

MC 2827 R Lyncis. 6.9+55.5 MC 2828 R Urs. Maj.

alt. +.21 alt. +.14

	Dec.	sc. 3		P.C.			sc. 1			P.C.		
a	B.			5.4	0.93	6.33	a	B		6.0	+0.19 0.81	6.81
b	3.1			6.6	0.67	7.27	b for fromcentre.			7.9	+0.64 0.34	8.24
c	.			7.9	0.34	8.24	d			6.5	0.69	7.19
				9.2	0.10	9.30	f for fromc.			7.7	0.39	8.09
							g			8.0	0.31	8.31
d	3.9			7.2	0.52	7.72	h	4.0		7.3	star sup.	
e	4.6			8.1	0.39	8.39	k	5.3	4.10	9.40	9.50 9.3	0.08 9.58
f'	4.8	4.16	8.96	8.3	0.34	8.64	l	4.9	4.14	9.04	8.7	0.17 8.87
f²	5.1	4.12	9.22	9.0	0.12	9.12	l'	5.1	4.12	9.22	9.00 9.0	8.8 0.12 9.20
g	5.3	4.10	9.40				m	5.7	4.03	9.73		
h'	5.7	4.04	9.74				m'	6.2	4.00	10.20		
h²	6.3	4.00	10.30				m	6.1	4.00	10.10		
k	6.7	4.00	10.70				o	6.1	4.00	10.10		
l	7.1	4.00	11.10				o'	6.8	4.00	10.70		
m	6.6 6.6	4.00	10.60				o²	6.9	4.00	10.90		
n	7.3	4.01	11.31				f	6.7 6.7	4.00	10.70		
o'	7.3	4.01	11.31				q	7.2	4.01	11.21		
o²	7.8 7.6	4.05	11.76				n	7.2	4.01	11.21		
f	8.1	4.10	12.20				s	9.1	4.10	12.20		
g	8.4	4.13	12.53				t	8.5	4.15	12.65		
n'	9.5 9.3	4.32	13.82				u	8.8	4.20	13.00		
n²	9.7 9.7	4.38	14.18									
s	10.0 9.9	4.42	14.41									
t												
Var.	5.4	4.09	9.49	9.8	0.07	9.87						

too close together. double

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Series 2826 - 2831.

Scale R

September 29, 1913.

MC 2830 R Camelop. MC 2831 R Le

alt. 00

	RC 1	RC 3 corr	Magn.	RC				RC 1	RC 3.	RC 3	
a	B.			7.3	+0.50	7.80 93	5			5.5	+2.
b	5.1	4.12	9.22 35	9.2	0.10	9.30 43	6			6.2	2.
c	5.2	4.11	9.31 44	9.3	0.09	9.39 52	8			7.6	1.7
d	5.9	4.02	9.92 1005	10.0	0.08	10.08 41	9			8.5	1.6
e	6.3	4.00	10.30 43				10	4.9		8.7	1.6
f	6.2	4.00	10.20 33				11	5.3		9.2 9.29+ 9.30 1 1	1.6
g	7.2	4.00	11.20 34				12	5.1		9.5 9.59 9.60 1 1	1.6
h	7.5	4.01	11.51 65				13	6.2		9.9 9.8 10.0 9.95 1.0	1.6
k	.						14	6.6			1.6
l	8.7	4.19	12.89 1203				15	6.8			1.6
m	9.0	4.23	13.23 37				16	7.1			1.5
n	8.9	4.22	13.12 26				17	7.3			1.5
o	F.						18	7.7			
f'	7.0	4.00	11.00 14				19	8.2			
h	~~f~~ n.s.						20	8.5			
g							23	8.7			
Nar.	8.2	4.11	12.31 45				25	9.3	9.29+ 9.35		
							26	9.8	9.79 9.80		
							27	n.s.			

Images elongated.

mO.R

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1913phae.proj..991L

Series 2832-2837 L'

Scale W YELLOW September 30, 1913. Series 46

10:50 MC 2832 Pole.

Y

Curve	Magn.		MC 2837				Diff.	Diff		Curve	Magn.
			Sc.1	Sc.2	Mean.						
+2.32	6.42	5	4.0 4.1		4.1	4.10	.00	+2.29	+2.33		
2.03	6.98	6	5.0 5.1		4.8	4.95	.12	+2.03	2.03 4.95	2n	4.2 4.3
1.71	8.06	8	6.2 6.3		6.4	6.35	.10	+1.75	1.68 5.71	3n	
1.66	8.71	9	6.9 7.0		7.1	7.05	.01	+1.65	1.69	4n	6.2 6.3
1.64	8.99	10	7.2 7.3		7.4	7.35	.10	+1.54	1.53	5n	6.3 6.4
1.64	9.34	11	7.5 7.6		7.8	7.70	.11	+1.72	1.66	6n	7.3 7.4
1.64	9.59	12	~~7.8~~ sc.2 7.9		8.0	7.95	.10	+1.78	1.63 1.80	7n	8.0
1.63	9.93	13	8.2		8.4	8.30	.11	1.87	1.78	8n	8.5
1.61	10.26	14	8.6		8.7	8.65	.01	1.87	1.59	9n	9.0
1.60	10.60	15	9.0		9.0	9.00	.00	1.94	1.64		
1.57	10.87	16	9.3		9.3	9.30	.00	1.96	1.64	4n	8.0
1.52	11.17	17	9.7		9.6	9.65	.10	1.84	1.39	5n	8.1
.		18	t.		t.	.				6n	8.7
		19									
		20									

ch W

+88:21 6.3

towards edge + " 115 7.3

" 105 6.1

in corner " 90 t. P.

Scale W does not compare with faint stars as well as with bright stars.

M O R.

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1913phae.proj..991L

Series 2832 – 2837. L'

YELLOW

~~Copied~~

Scale 25.

September 30, 1913

~~copied~~

Series 46 Copied B[illegible] 23.12

Mc 2833 B5 12+45 alt. +.12 ~~alt. +.20~~

Mc 2835 C7 alt. +.10. ~~alt. +.17~~

	AC.1	sc.2 ~~sc.3~~			AC.2	Magn.	AC.1	sc.2			AC.2	Magn.
1	3.6	3.7	1.96		8.7 ~~2.45~~		1 B.	8.1				
2	5.3	5.4	1.96	7.36	n.c. 1.90	7.30	2 t.P.	curve	Magn.			
3	6.0	6.1	1.80	7.90	1.75 ~~2.25~~	7.85	3 t.P.					
4	6.5	6.6	1.71	8.37	1.69	8.29	4 5.6	5.7	1.88	7.58	+ 1.83	7.53
5	6.3	6.4	1.73	8.10	1.71	8.11	5 5.7	6.8	1.85	7.65	1.81	7.61
6	5.0	5.1	3.01	7.81	1.48	7.08	6 6.6	6.7	1.69	8.39	1.68	8.38
7	6.7	6.8	1.68 ~~1.70~~	8.50	1.66	8.46	7 6.9	7.0	1.66	8.66	1.66	8.66
8	6.4	6.5	1.72	8.22	1.70	8.20	8 7.6	7.7	1.70	9.40	1.64	9.34
9	6.8	6.9	1.67	8.50	1.66	8.56	9 t.P.					
10	7.4	7.5	1.69 1.70	9.20	1.64	9.14	10 ~~8~~ 8.2		1.76	9.96	1.64	9.84
11	6.0	6.1 6.2	6.15 1.80	7.90	1.74	7.89	11 6.8	6.9	1.66	8.56	1.66	8.56
12		8.0	1.73	9.73	1.64	9.64	12 7.7	7.8	1.71	9.51	1.64	9.44
13		8.5	1.80	10.30	1.62	10.12	13	8.7	1.82	10.52	1.61	10.31
14		8.7	1.82	10.52	1.61	10.31	14	8.6	1.80	10.40	1.62	10.22
15		8.5	1.80	10.30	1.62	10.12	15	9.1	1.86	10.96	1.59	10.69
16		8.3	1.77	10.07	1.63	9.93	16	8.7	1.82	10.52	1.61	10.41
17a		8.5	1.80	10.30	1.62	10.12	17	9.7	1.98	11.68	1.51	11.21
18		9.7	1.98	11.68	1.52	11.22	18	9.3	1.90	11.20	1.57	10.87
19		10.0 ~~2.5~~	2.02	12.02	1.47	11.47	19	?				
17b		8.7	1.82	10.52	1.61	10.31	20					
20												

no P.c. curve

Images on this plate are slightly elongated.

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1913phae.proj..991L

Series 2832-2837 L'

Scale W YELLOW copied September 30, 1913. Series +6

		Mc 2836	Bb.	Mc 2837 Pole.						
			P.C.	Y					P.C.	
				Curve Magn.		sc.1	≈			
c.	1	7.1 7.8 7.8	9.8	+2.58	7.38	5	4.0	4.1	+88* 2	6.3
"	2	.	8.1	.		6	4.7	4.8	115 to near edge	
" to from c.	3	.	8.9	.		8	6.3	6.4	105	5.9
" " "	4	.	8.1	.		9	7.0	7.1	90 t.P.	
" " "	5	.	n.s.	.		10	7.3	7.4		
near Edge.	6	6.06 1.60 7.90		1.77	7.87	11	7.7	7.8		
" "	7	6.26 1.76 8.06		1.72	8.02	12	7.9	8.0		
	8	6.26 1.76 8.06		1.72	8.02	13	8	8.4		
	9	6.56 1.70 8.30		1.69	8.29	14		8.7		
	10	7.1 7.2 1.67 8.77		1.65	8.85	15		9.0		
	11	6.8 6.9 1.66 8.56		1.66	8.56	16		9.3		
	12	7.2 7.3 1.67 8.97		1.65	8.85	17		9.6		
	13	7.5 7.6 1.70 9.30		1.64	9.24	18		f.		
	14	8.3 1.78	10.08	1.63	9.93	19				
	15	8.5 1.80	10.30	1.62	10.12	20				
	16	8.0 1.73	9.73	1.64	9.64	23				
	17	7.7 1.70	9.40	1.64	9.34	25				
	18	8.6 1.86	10.40	1.62	10.22	26				
	19	9.1 1.87	10.97	1.59	10.69	27~39		8.7		
	20	9.0 1.85	10.85	1.60	10.60	47~59		n.s.		
	21	f.		f.		57~62				
	22	9.5 1.92	11.42	1.64	11.04	67~73				
	23	n.s.				77~79				
	24					87~85				
						97~90				
						47~8.0				
						57~8.1				

11:25

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1913phae.proj..991L

Series 2843 - 2848.

Scale U

October 2, 1913

10:25

Mc 2843 Pole

	Sc 1	Sc 3	Mc 2848 P. 195	Mean.	Diff.	S.C. Sc 3	Mc 2848 P. 195			
5						5.8	5.7	5.75	0 1	0.64
6						6.2	6.2	6.20	0 0	0.78
8						7.7	7.8	7.75	1 0	0.85
9						8.4	8.5	8.45	0 1	0.35
10	4.7		4.8	4.75	1 0	4.14	8.7	8.7	0 0	+0.19
11	5.2		5.3	5.25	0 1	4.17	9.0 8.9 9.1 9.05	0 1	9.20	9.12 0 1 0 8 0.30
12	5.7		5.6	5.65	1 0	4.08	9.6 9.7 9.9 9.75	2 1	9.50	9.62 1 3 1 2 0.11
13	6.1		6.1	6.10	0 0	4.07	n.s.		9.90	9.90 2 0.27
14	6.4		6.3	6.35	0 1	4.17				
15	6.9		6.6	6.75	1 2	4.19				
16	7.2		7.0	7.10	1 1	4.16				
17	7.5		7.4	7.45	1 0	4.04				
18	8.0		8.0	8.00	0 0	3.92				
19	8.4		8.2	8.30	1 1	3.98				
20	8.5		8.5	8.50	0 0	4.09				
23	9.0	8.95 0 1 8.7 8.9	8.9	8.92	0 3 0 2	4.28				
25	9.5	9.40 1 1 9.93 10.00 0 0	9.40	9.40	0 0 0 0	4.33				
26	10.0	9.8 10.0	9.85	9.92	0 8 0 7	4.27				

MOR

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Series Mc 2843 - 2847

copied.

Scale N

October 2, 1913.

Mc 2844 D5 9-15

alt -17

		curve	magn.
too far from c.	1		
	2		
" " " "	3		
" " " "	4		
" " " "	5		
	6		
	7	5.1 +4.10	9.20
	8	4.7 4.09	8.79
	9	4.8 4.10	8.90
	10	5.3 4.10	9.40
	11	5.2 4.10	9.30
	12	5.7 4.10	9.80
	13	5.7 4.10	9.80
	14	6.0 4.10	10.10
	15	6.21 4.10	10.30
	16	6.1 4.10	10.20
	17	6.3 4.10	10.40
	18	6.4 4.10	10.50
	19	6.7 4.10	10.80
	20	7.50⊥ 7.4 4.12	11.62
	21	7.35⊥ 7.3 7.4 4.11	11.46
	22	7.9 4.12	12.02
	23	8.0 4.13	12.13
	24	8.0 4.13	12.13
	25	8.2 4.14	12.34
	26	8.5 4.16	12.66

	P.C.	SC3	Magn.
1	6.6	0.59	7.19
2	7.1 7.1	0.49	7.59
3	6.8 6.7	0.54	7.29
4	7.2	0.47	7.67
5	7.5	0.40	7.90
6	8.2	0.29	8.49
7	8.6	0.26	8.86
8	8.6	0.26	8.86
9	8.9	0.22	9.12
10	9.2 9.19	0.21	9.46
11	9.1 8.89	0.21	9.21
12	9.8 9.9	10.1 0.21	10.16
13	9.7 9.8	10.0 0.20	10.05

	sc.2	sc3		curve	magn.
27	8.7			+4.17	12.87
28	8.7			4.17	12.87
29	9.1			4.19	13.24
30	9.0	9.00 8.89		4.18	13.18
31	9.5	9.45 10 9.4		4.21	13.66
32	9.7	9.7	9.80 ⊥1 9.9	4.22	14.02
33	9.7	9.5	9.7000 9.7 ·10.00 ⊥1	4.21	13.91
34	9.9	9.9	10.1	4.24	14.24
35	⊥				

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1913phae.proj..9911

Series Mc 2843-2848

Scale 4 objects. October 2, 1913. copied.

Mc 2845 125 K.

alt. -.17

	Sc.1	Sc.3		P.C. Sc.3		Curve	
1	5.0	4.10	9.10	9.7 8.7		0.24	8.94
2	5.8 5.7	4.10	9.85	8.2 9.8 9.5	9.75 ±1	0.20	9.95
3	5.9	4.10	10.00	9.9 9.7 9.7	9.90 ±0	0.20	10.10
4	6.2	4.10	10.30				
5	6.1	4.10	10.20				
6	6.9 6.7	4.11	10.91				
7	6.8	4.11	10.91				
8	7.3	4.11	11.41				
9	7.3	4.11	11.41				
10	8.0	4.13	12.18				
11	8.9	4.18	13.08				
12	9.0	8.9 9.1	4.19	13.24			
13	9.3	9.3 9.7	4.21	13.71			
14	9.8	9.8 10.0	4.24	14.14			
15	9.8	9.8 10.0	4.24	14.14			

Mc 2846 100 K.

alt +.06

	Sc.3	P.C. below.
1	4.3	
2	4.9 4.10	9.00
3	4.7 4.10	8.80
4	5.2 4.10	9.30
5	5.7 4.10	9.80
6	6.1 4.10	10.20
7	6.3 4.10	10.40
8	7.1 4.11	11.21
9	7.7 4.12	11.82
10	7.6 4.12	11.72
11	7.9 4.13	12.03
12	8.0 4.13	12.13
13	8.2 4.15	12.35
14	8.7 4.17	12.87
15	9.3 9.0 9.2 9.25	1 0 4.20 13.45

P.C.

1	7.7		0.27	7.97
2	9.1 8.7 8.9 9.00	1 1	0.21	9.21
3	8.7 8.7		0.24	8.94
4	9.1 8.9 9.1 9.10	0 0	0.21	9.31
5	9.7 9.7 9.9 9.80	1 1	0.20	10.00
6	n.s.			

too.

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Series Mc 2843 - 2848

copied.

Scale 1 - October 2, 1913.

	Mc 2847 alt +.17 Sc.3			C5 9+15 Pc.			Mc 2848 Sc 2 Sc 3						Pole	
too far from c.	1				6.3	0.66	6.96	27	9.8	9.8	10.0	9.90 ⊥1	4.23	14.13
	2	B.			7.3	0.44	7.74	28	9.9	9.8	10.0	9.95 ⊥0	4.24	14.19
" " "	3	.			7.0	0.50	7.50							
" " "	4	.			7.2	0.48	7.68							
	5	4.8	4.10	8.90	8.0	0.31	8.31	5		Sc 3				
	6	4.9	4.10	9.00	8.1	0.30	8.40	6						
	7	4.8	4.10	8.90	8.5	0.26	8.76	8						
	8	5.0	4.10	9.10	8.9	0.22	9.12	9						
	9	5.2	4.10	9.30	9.1	9.15 ⊥0 9.2	0.21	9.36	10	4.8				
	10	5.6	4.10	9.70	9.7	9.60 ⊥2 9.5	0.21	9.81	11	5.3				
	11	5.3	4.10	9.40	9.1	9.25 ⊥2 9.4	0.21	9.46	12	5.6				
	12	5.9	4.10	10.00	9.9	9.7 990 00' 9.9	0.20	10.10	13	6.1				
	13	6.3	4.10	10.40					14	6.3				
	14	6.2	4.10	10.30					15	6.6				
	15	6.8	4.11	10.91					16	7.0				
	16	7.0	4.11	11.11					17	7.4				
	17	7.1	4.11	11.21					18	8.0				
	18	7.2	4.11	11.31					19	8.2				
	19	7.4	4.12	11.52					20	8.5				
	20	7.7	4.12	11.82					23	8.9				
	21	8.1	4.15	12.25					25	9.4	9.2	9.4	9.40 .0	
	22	8.3	4.16	12.46					26	9.8	9.7	9.9	9.85 .1	
	23	8.3	4.16	12.46										
	24	8.5	4.16	12.66										
	25	9.1	9.4	9.4 9.25 ⊥0	4.20	13.45								
	26	9.6	9.8	9.5 9.55 0⊥	4.21	13.76								

Mc 2848 Pole. Sc 3 See T. 192.

5	8.7			
6	6.2			
8	7.8			
9	8.5			
10	8.7			
11	9.1	9.1	9.3	9.20 ⊥1
12	9.5	9.3	9.5	9.50 .0
13	9.9	9.7	9.9	9.90 .0

82

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Series 3961 — 3966.

Scale ℓ

October 8, 1913.

10:26 Mc 3961 Pole.

	Sc.3					P.C. sc 3	Mc 3966	Mean	Diff
5						5.5	5.4	5.45 10	0.94
6						6.2	6.3	6.25 01	0.73
8		Mc 3966	Mean		Diff	7.2	7.2	7.20 00	0.90
9		8.199				7.7	7.7	7.70 00	1.00
10	4.1	4.2	4.15 10	+	4.14	7.9	7.9	7.90 00	0.99
11	4.7	4.7	4.70 00		4.72	8.3	8.4	8.35 10	1.07
12	5.1	5.0	5.05 10		4.68	8.7	8.9	8.80 11	0.93
13	5.3	5.3	5.30 00		4.87	9.0 9.3 (9.5, 8.5)	9.25 ±3	9.40	9.32 07 08	0.85
14	5.5	5.4	5.45 10		5.07	9.8 9.8 (10.0)	9.90 ±1	9.90	9.90 00 00	0.62
15	5.8	5.9	5.85 01		5.09					
16	6.2	6.2	6.20 00		5.06					
17	6.5	6.5	6.50 00		4.99					
18	7.0	6.9	6.95 01		4.97					
19	7.5	7.1	7.30 22		4.98					
20	7.8	7.5	7.65 21		4.94					
23	8.2	8.0	8.10 11		5.10					
25	8.1	8.2	8.45 32		5.28					
26	9.0 8.8 9.0 9.00	9.50 (8.8)	8.90 11		5.29					
27	9.5 9.3 9.5 8 9.50	9.60	9.50 00		5.05					
28	9.9 9.9 10.1 10.00	9.85	9.92 08 07		5.05					

m. 0:12.

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Series 3961 – 3966.

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Scale K

Card

October 8, 1913

copied

Card

Mc 3962 15 Ks.

alt +22

P.C.

	Sc.1	Sc.3					
1	4.039 (3.95)	4.64	8.59 (8.72)	6.80.. 6.86	0.91	7.77 (7.84)	
2	4.3	4.71	9.01 (9.14)	8.0 (9.00)	0.97	8.97	
3	4.9	4.81	9.71 (9.84)	8.7 (9.60 ⊥1)	0.93	9.63 (9.76)	
4	5.3	4.88	10.18 (10.31)	9.5 (10.30)	9.59 7	0.74	10.34 (10.47)
5	5.9	4.96	10.86 (11.00)	10.0	9.8 10.0	0.62	10.62 (10.75)
6	5.9	4.96	10.86 (11.00)	n.s.			
7	6.6	5.05	11.65 (11.79)				
8	7.1	5.10	12.10 (12.24)				
9	7.5	5.14	12.64 (12.78)				
10	8.0	5.17	13.17 (13.31)				
11	8.1	5.17	13.27 (13.41)				
12	8.3	5.17	13.47 (13.61)				
13	8.8	5.17	13.97 (14.11)				
14	9.0	8.89 (9.00..)	5.15	14.15 (14.29)			
15	9.1	8.99 (9.10..)	5.14	14.24 (14.38)			
16	9.5	9.395 (9.50..)	5.10	14.60 (14.74)			

P.C. for bright

Mc 3963 23 K.

alt +23

1	3.2	.	Magn.	
2	3.9	4.63	8.53 (8.66)	
3	4.1	4.78	9.48 (9.61)	
4	5.8	4.95	10.75 (10.88)	
5	6.1	5.00	11.10 (11.24)	
6	6.3	5.00	11.30 (11.44)	
7	7.2	5.12	12.32 (12.46)	
8	7.5	5.14	12.64 (12.78)	
9	7.7	5.15	12.85 (12.99)	
10	8.1	5.16	13.26 (13.40)	
11	8.7	5.17	13.87 (14.11)	
12	8.7	5.17 (9.35 ⊥0)	13.87 (14.11)	
13	9.3	9.29 7	5.11	14.46 (14.60)
14	9.5	9.09 7 (9.60 ⊥1)	5.09	14.69 (14.83)
15	9.9	9.8 (9.95 ⊥0)	10.0	5.03 (15.20) 14.98

	P.C. Curve.	Magn.
6.3	+0.88	7.77 (7.91)
6.7	0.89	7.59 (7.72)
8.1	0.97	9.07 (9.20)
9.7 (9.70)	9.59 7	0.72 (10.05) 10.42 (10.55)
10.0	9.9	10.1 0.61 (10.71) 10.66 (10.77)

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1913phae.proj..991L

Series 3961 – 3966.

Scale R.

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October 8, 1913.

copied. Card.

Mc 3964 95K.

Alt. +.06

				P.C.		
1	3.8	4.61	8.41	7.4	0.94	8.34
2	4.0	4.65	8.65	7.9	0.96	8.86
3	4.4	4.72	9.12	*7.9	0.96	8.86
4	5.3	4.88	10.18	n.s.		
5	5.3	4.88	10.18	n.s.		
6						
6	5.8	4.95	10.75			
7	6.3	5.01	11.31			
8	6.6	5.05	11.65			
9	6.7	5.07	11.77			
10	7.2	5.11	12.31			
11	8.0	5.17	13.17			
12	8.2	5.17	13.37			
13	8.9	5.16	14.06			
14	9.8	9.99 (9.85 01)	5.04			14.90
15	9.8	9.99 (9.86 01)	5.05			14.90

*Star 3 apparently adjacent star was measured, instead of p.c., as reading is certainly wrong. Reject.

Mc 3965 B3 640 + 45.

Alt. +.18

				P.C.		
1	.			6.3	0.88	7.18
2	.			6.2	0.88	7.08
3	.			6.5	0.90	7.40
4	4.1	4.68	8.78	6.7	0.90	7.60
5	4.0	4.66	8.66	6.7	0.90	7.60
6	4.0	4.66	8.66	6.8	0.91	7.71
7	.			7.0	0.92	7.92
8	4.3	4.71	9.01	7.4	0.94	8.34
9	4.6	4.76	9.36	8.0	0.96	8.96
10	4.7	4.78	9.48	8.5	0.95	9.45
11	4.8	4.80	9.60	8.5	0.95	9.45
12	4.9	4.81	9.71	8.8	0.92	9.72
13	5.2	4.86	10.06	9.1	9.25 (9.24 22) 9.24	0.89 10.04
14	5.2	4.86	10.06	9.0	9.24 (9.15 32) 9.15	0.85 10.05
15	5.4	4.89	10.29	9.5	9.8 100 (9.90 11)	0.71 10.46
16	5.7	4.93	10.63	9.8	9.8 100 (9.95 20)	0.95 10.55
17	5.7	4.93	10.63	9.9	9.8 100	0.64 10.59
18	5.9	4.96	10.86			
19	5.9	4.96	10.86			
20	6.2	5.00	11.20			
21	6.3	5.00	11.30			
22	7.1	5.11	12.21			
23	7.1	5.11	12.21			
24	7.5	5.13	12.63			
25	7.6	5.14	12.74			

cont.

Nos. 1, 2, 3, & 7 are too far from centre.

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Series 3961-3966.

Scale u

October 8, 1913.

	mc 3965			Bg cont		mc 3966 Pole.	
				5	.20		
26	7.9			4.16	13.06	5	5.4
27	8.1			4.17	13.27	6	6.3
28	8.3			4.17	13.47	8	7.2
29	8.5			4.18	13.68	9	7.7
30	8.2	8.5	8.35 2 1	4.17	13.52	10 4.2	7.9
31	8.1			4.17	13.89	11 4.1	8.4
32	9.1	8.7	8.9 9.00 1 1	4.15	14.15	12 5.0	8.9
33	8.8	8.7	8.9 8.85 0 1	4.16	14.01 ~~13.96~~	13 5.3	9.3 9.3 9.5 9.4 0 1 1
34	9.7	9.7	9.9 9.80 1 1	4.06	14.86	14 5.4	9.8 9.8 10.0 9.9 0 1 1
35	9.9	9.9	10.1 10.00 1 1	5.02	15.02 1	15 5.9	
						16 6.2 1	
						17 6.5	
						18 ~~7~~ 6.9	
						19 7.1	
						20 7.5	
						23 8.0	
						25 8.2	
						26 8.8	
						27 9.3 9.5 9.7 9.5 0 2 2	
						28 9.7 ~~9.8~~ 10.0 9.85 1 2	

1/:36

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Series 2850 – 2855 No. 48

YELLOW

October 9, 1913.

Sc W

10:43

MC 2850 Cole 2

		mc 2855	Mean.	Diff.			Y Diff.	Y Curve	Y Magn.
5	4.3 4.4	4.4	4.40 00	1.99	9.2	9.2 mc 2854	+2.03	+1.89	6.29
6	5.2 5.3	5.5	5.40 ⊥1	1.58	n.s.		1.58	1.70	7.10
8	6.4 6.5	6.4	6.45 10	1.65			1.58	1.53	7.98
9	7.2 7.3	7.1	7.20 1⊥	1.50			1.54	1.45	8.65
10	7.5 7.6	7.6	7.60 00	1.29			1.28	1.40	9.00
11	8.0 8.1	8.0	8.05 10	1.37			1.31	1.33	9.38
12	8.4 sec 2	8.5	8.45 01	1.28			1.13	1.27	9.72
13	8.6	8.8	8.70 ⊥1	1.47			1.38	1.24	9.94
14	9.0	9.0	9.00 00	1.52			1.24	1.19	10.19
15	9.5	9.5	9.50 00	1.44			1.14	1.11	10.61
16	9.9 sec 1	10.0	9.95 ⊥0	1.31			0.99	1.02	10.97
88 2	6.4 6.5	6.7	6.60 ⊥1					1.51	8.11
88 105	6.7 6.8	7.4	7.10 3 3				clw	1.46	8.56
88 115	7.6 7.7	7.8	7.75 ⊥0					1.37	9.12
88 90	7.8 7.9	8.1	8.00 ⊥1					1.34	9.34
2 m	4.9 5.0	5.3	5.15 ⊥1					1.74	6.89
4 m	6.7 6.8	6.8	6.80 00					1.49	8.29
5 m	~~4.9~~ 7.3 7.4	7.4	7.40 00					1.43	8.83
6 m	7.7 7.8 sec 2	7.7	7.75 01					1.37	9.12
7 m	8.3	8.5	8.40 ⊥1					1.28	9.68
8 m	8.9	8.9	8.90 00					1.21	10.11
9 m	9.3	9.5	9.40 ⊥1					1.13	10.54
4 s	8.5	8.5	8.50 00					1.28	9.77
6 s	8.6	8.5	8.55 01					1.26	9.81
5 a	8.5	9.1	8.80 ⊥3					1.23	10.03

tow edge

M.O.R.

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1913phot.proj...001

Series 2850 – 2855. No. 48 L'

Scale W copied YELLOW October 9, 1913 copied copied D

	Mc 2851 Yellow Alt. Corr. −.15 Alt. −.2				11 – 15 D6 Y * Curve Magn.		Mc 2852 Alt. −.18				13 – 15 D7 Yellow Alt. corr. −.10 P.E. Y Curve Magn.	
too far from centre	1	·			9.3	· ·	1.					
" " "	2	·			9.9	· ·	2.				·	·
	3	5.0	5.1	1.15	6.85	+1.75 6.85	3	·			·	·
	4	·				· ·	4	6.1	6.2	1.63	7.83	+1.56 7.76
	5	6.3	6.4	1.59	7.99	1.54 7.94	5	5.2	5.3	1.73	7.03	1.72 8.02
	6	6.4	6.5	1.58	8.08	1.52 8.02	6	·			·	·
	7	6.3	6.4	1.59	7.99	1.54 7.94	7	·			·	·
	8	6.2	6.3	1.60	7.90	1.55 7.85	8	·			·	·
	9	6.7	6.8	1.53	8.33	1.49 8.29	9	·			·	·
	10	7.2	7.3	1.49	8.79	1.44 8.74	10	·			·	·
	11	7.4	7.5	1.47	8.97	1.41 8.91	11	·			·	·
wr. unit	12	~~8.0~~ 7	~~8.1~~ 7	1.43	9.53	~~1.32~~ 1.46 ~~9.42~~ 8.56 15a	12	7.7	7.8	1.44	9.24	1.36 9.16
	13	7.7	7.8	1.45	~~9.35~~ 9.2	1.37 9.17	13	8.3		1.42	9.72	1.29 9.59
	14	7.3	7.4	1.48	8.88	1.43 8.83	14	7.2	7.3	1.49	8.79	1.44 8.74
Remeas. by O.	15	6.8	6.9	1.52	8.42	1.48 8.38	15	8.1		1.43	9.53	1.32 9.42
8.4	16	8.1		1.43	9.53	1.32 9.42	16	7.9	8.0	1.43	9.43	1.34 9.24
8.1	17	8.7		1.41	10.11	~~1.24~~ 1.37 ~~9.94~~ 9.17	17	8.6		1.41	10.01	1.26 9.86
9.1 a 9.2	18	9.0		1.40	10.40	1.19 10.19	18	9.2		1.40	10.60	1.17 10.37
Assume wr. unit July 10, '17.	19	9.3		1.40	10.70	1.15 10.45	19	9.5		1.39	10.89	1.11 10.61
	20	8.7		1.40	10.10	1.24 9.94	20	9.0		1.40	10.40	1.20 10.20
	21	9.8		1.38	11.18	1.06 10.86	21	11.5				
	22	~~1~~.			F		22					

Nos. 1, 2, 6, 9, 10, 11 are too far from centre, also, 3, 7, 8.
Images poor.

M 96

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Series 2850–2855. No 48
α1

Scale W. copied. YELLOW October 9, 1913.

Mc 2853 15 + 15
Yellow alt. corr. +.10
~~Alt. +.17~~

Mc 2854/5 Pole.

See P. 200.

		RC 1	RC 2	P.C.	Curve	Magn.
top for from centre	1	.			.	.
" " "	2	.			.	.
	3	6.36.4	1.59	7.99	+1.54	7.94
" " "	4	.			.	.
	5	t.p.			.	.
	6	5.2 5.3	1.72	7.02	1.72	7.02
" " "	7	.			.	.
	8	6.7 6.8	1.53	8.33	1.49	8.29
	9	7.1 7.2	1.50	8.70	1.46	8.66
	10	7.9 8.0	1.43	9.43	1.34	9.34
	11	7.7 7.8	1.44	9.24	1.37	9.17
	12	7.3 7.4	1.48	8.88	1.43	8.83
	13	7.1 7.2	1.50	8.70	1.46	8.66
	14	8.1	1.43	9.53	1.32	9.42
	15	8.5	1.41	9.91	1.27	9.77
	~~16~~ 17	~~8.7~~ 7.9	1.40	10.10	1.24	9.94
	17	7.9 8.0	1.43	9.43	1.34	9.34
	18	~~9.0~~ 9.0	1.40	10.40	1.19	10.19
	19	8.5	1.41	9.91	1.27	9.77
	20	8.7	1.40	10.10	1.24	9.94
	21	9.7	1.39	11.09	1.07	10.77

	RC 1	RC 2		Magn.
5	4.3 4.4			9.2
6	5.4 5.5			n.s.
8	6.3 6.4			
9	7.0 7.1			
10	7.5 7.6			
11	8.0			
12	8.5			
13	8.8			
14	9.0			
15	9.5			
16	10.0			
88 2	6.6	6.7	1.54	8.74
88 105	7.3	7.4	1.48	888
88 115	7.7	7.8	1.44	9.24
88 90	8.1		1.43	9.63
2R	5.2	5.3	1.72	7.02
4R	6.7	6.8	1.53	8.33
5R	7.3	7.4	1.48	8.88
6R	7.6	7.7	1.45	9.15
7R	8.5		1.41	9.91
8R	8.9		1.40	10.30
9R	9.5		1.39	10.89
4R	8.5		1.41	9.91
5R	8.5		1.41	9.91
6R	9.1		1.40	10.50

M.O.R. 11:25

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Series 2872 —

Oct 9, 1913

MC 2872 — Orbs —

Sc 1 Sc 3

													Mean.
5					5.7			6.1	Mean. 5.90		+0.49		
6					6.3			6.5	6.40	± 1	0.58		
8					8.1			8.1	8.10	00	0.00		
9					8.7			8.7	8.70	00	0.00		
10	4.7		4.8		8.9			8.9	8.90	00	-0.01	4.75	± 0	+ 4.14
11	5.2		5.21	9.3 9.1 9.3		9.30	00	9.05	9.18	12 13	+0.24	5.20	00	4.22
12	5.5		5.6	9.7 9.5 9.7		9.70	00	9.75	9.72	02 03	0.01	5.55	± 0	4.18
13	6.0		6.1									6.05	01	4.12
14	6.4		6.4									6.40	00	4.12
15	6.7		6.8									6.75	± 0	4.19
16	7.1		7.2									7.15	~~2~~ 1 0	4.11
17	7.4		7.5									7.45	01	4.04
18	7.9				7.9							7.90	00	4.02
19	8.2				8.4							8.30	± 1	3.98
20	8.5				8.7							8.60	± 1	3.99
23	9.1	8.9	9.1	9.10	00	9.05						9.08	02 03	4.12
25	9.5	9.3	9.5	9.50	00	9.60						9.55	05 05	4.18
26	9.9	9.8	10.0	9.95	± 0	9.90						9.92	03 02	4.27
27	?												

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Sc II

Oct 9, 1913

MC 2873 - 104 K alt. +06

	Sc 2	Sc 3		Pc			
1	4.3	4.26	8.56	7.9		0.21	8.11
2	5.4	4.19	9.59	9.3	9.35 10	0.07	9.42
3	5.7	4.16	9.86				
4	6.5	4.11	10.61				
5	6.9	4.10	11.00				
6	6.5	4.11	10.61				
7	7.0	4.09	11.09				
8	7.3	4.08	11.38				
9	7.5	4.07	11.57				
10	8.1	4.07	12.17				
11	9.1	9.0 9.2	9.15 10	4.13	13.28		
12	9.1	9.1 9.3	9.20 11	4.14	13.34		
13	9.8	9.7 9.9	9.85 01	4.24	14.09		
14	9.7	9.5 9.7	9.70 00	4.22	13.92		
15	10.0	9.8 10.0	10.00 00	4.27	14.27		

copied.

MC 2874 - 32 Kp alt. +.22

	Sc 2	Sc 3		Pc	
	B			5.9	0.98
	3.0			6.3	0.50
	4.1	4.28	8.38	7.9	0.92
	4.2	4.27	8.47	7.6	0.27
	5.4	4.19	9.59	9.5	9.45 0.06
	5.6	4.17	9.77	9.9	9.98 0.05
	6.1	4.13	10.23		
	6.4	6.3 4.12	10.47		
	6.1	6.1 4.12	10.22		
	6.9	4.10	11.00		
	7.3	4.08	11.38		
	8.0	4.07	12.07		
	8.2	4.08	12.28		
	8.3	4.08	12.38		
	8.5	4.09	12.59		
16	9.0	8.9 9.1	9.05 01	4.12	13.17
17	9.3	9.1 9.3	9.30 00	4.15	13.45
18	9.7	9.8 9.9	9.85 12	4.24	14.09

mo R.

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1913phae.proj..991L

D 7 cohiet

Scale 4 October 9, 1913.

Mc 2875 13-15

Alt -18

				Pc	sc 3				Mc 3				
6.68													
6.80													
too	far from center	1	.	6.4	0.48	6.88	28	8.9			4.10	13.00
8.12	" " "	2	.	6.9	0.38	7.28	29	9.0	8.9	9.1	9.05	4.21	13.17
7.87	" " "	3	.	7.8	0.23	8.03	30	9.3	9.0	9.2	9.20	4.14	13.39
9.66		4	4.0	7.5	0.38	7.88	31	9.85	9.5	9.7	9.60	4.20	13.80 m. amt
10.00		5	4.3 4.26	8.56	7.80 7.8	0.23	8.03	32	9.7	9.7	9.9	9.80	4.23	14.03
		6	.		7.25 7.2 7.3	0.32	7.61	33	9.8	9.8	10.0	9.90	4.24	14.14
		7	.		8.0	0.20	8.20						
		8	.		8.3	0.17	8.47						
		9	.		8.2	0.19	8.39						
		10	.		8.3	0.17	8.47						
		11	.		8.5	0.14	8.64						
		12	5.3 4.19	9.49	9.40 9.2	9.496	0.07	9.47					
		13	5.3 4.19	9.49	9.60 9.5	9.59	0.16	9.66					
		14	4.9 4.21	9.11	9.35 9.2	9.193	0.08	9.33					
		15	5.6 4.17	9.77	n.s.								
		16	5.3 4.20	9.50	9.90 9.9	9.9	0.05	9.95					
		17	5.9 4.14	10.04									
		18	6.1 4.12	10.23									
		19	6.4 4.11	10.51									
		20	6.8 4.10	10.90									
		21	7.2 4.08	11.28									
		22	7.1 4.09	11.19									
		23	7.4 4.08	11.48									
		24	8.1 4.07	12.17									
		25	8.1 4.07	12.17									
		26	8.0 4.07	12.07									
		27	8.3 4.08	12.38									

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Scale u. October 9, 1913.

Mc 2876 13+15° Cy Mc 2877 Pole

Alt. +16

sc 3 curve Magn.

	Sc 3			Pl.				5	5		6.1
To far from centre!	.			6.9	4.10	0.39	11.00	1.29	6		6.5
2	.			7.5	4.07	0.28	11.57	1.78	8		8.1
3	.			7.5	4.07	0.28	11.57	1.78	9		8.7
4	3.9	.		7.7	4.07	0.25	11.77	1.95	10	4.8	8.9
5	4.2	4.27	8.47	8.3	4.08	0.17	12.38	8.47	11	5.2	9.0 8.9 9.1 9.05 0.1
6	4.3	4.26	8.56	8.3	4.08	0.17	12.38	8.47	12	5.6	9.8 9.5 9.7 9.15 0.1
7	.			9.0 8.9 9.1	4.12	0.10	13.17	9.15	13	6.1	
8	5.3	4.30	9.50	9.5 9.39.5	4.19	0.06	13.69	9.56	14	6.4	
9	.			9.5 9.59.7	4.00	0.06	13.80	9.66	15	6.8	
10	5.3	4.30	9.50	n.s.					16	7.2	
11	5.3	4.30	9.50						17	7.5	
12	5.3	4.30	9.50						18	7.9	
13	6.2	4.12	10.32						19	8.4	
14	6.2	4.12	10.32						20	8.7	
15	6.3	4.11	10.41						23	9.0 8.9 9.1 9.05 0.1	
16	6.5	4.11	10.61						25	9.5 9.5 9.7 9.60 1.1	
17	7.1	4.08	11.18						26	9.8 9.8 10.0 9.90 1.1	
18	7.2	4.08	11.28						27	n.s.	
19	7.3	4.08	11.38								
20	7.7	4.07	11.77								
21	8.2	4.08	12.28								
22	8.3	4.08	12.38								
23	8.5	4.09	L	12.59							
24	9.3	9.35 9.39.4 9.80 1.1	4.16	13.56							
25	9.1	9.7 9.9 9.85 1.0	4.23	14.03							
26	9.9										
27	n.s.	9.8 10.0	4.25	14.20							

Light growing darker during measurement of last 2 plates.

24 Considerably fainter than 23?

MOR.

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1913phae.proj..991L

Sc U

Oct 10, 1913

G. E. M. Rec.

MC 2877

	Sc 2	Diff.	Sc B	Pe				Diff.	
5	.			6.1					
6	.			6.6				+0.29	(5)
8	.			7.9				0.38	(6)
9	.			8.7				0.20	(8)
								0.00	(9)
10	4.7	4.19		8.8				0.09	
11	5.2	4.22		9.0	8.9	9.1	9.05 .1	0.37	
12	5.6	4.13		9.5	9.5	9.7	9.60 .11	0.13	
13	6.0	4.17		9.9	9.7	9.9	9.90 .00	0.17	
14	6.5	4.02							
15	6.9	4.04							
16	7.2	4.06							
17	7.5	3.99							
18	7.9			4.02					
19	8.2			4.08					
20	8.5			4.09					
23	9.0			4.20					
25	9.5	9.5	9.3	9.5	9.5	0	.00	4.23	
26	9.9	9.9	9.7	9.9	9.9	0	.00	4.29	
27	N.S.	N.S.		.					

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	MC 2878 - 106 K alt. +06				MC 2879 Bd. 14 40 + 45				
				Pc	mean			Pc	
1	5.0	4.20	9.20	8.9	0.22	9.12		5.3	
2	5.3	4.17	9.47	9.3 9.30	9.1 0.22	9.52		5.4	
3	5.2	4.19	9.37	9.2 9.20	9.0 0.22	9.42		5.6	0.38 5.98
4	6.0	4.11	10.11					5.9	0.36 6.26
5	6.2	4.10 ~~4.20~~	10.30					6.3	0.33 6.63
6	6.8	4.07	10.87				4.0	7.3	0.27 ~~0.30~~ 7.60
7	7.3	4.04	11.34				4.1	7.5	0.26 7.76
8	7.3	4.04	11.34				4.3 4.28 8.58	7.7	0.25 7.95
9	7.5	4.04	11.54				4.7 4.22 8.92	8.7	0.22 8.92
10	8.0	4.08	12.08				4.7 4.22 8.92	8.9	0.22 9.12
11	7.9	4.07	11.97				5.2 4.19 9.39	9.5 9.45 9.44	0.22 9.67
12	8.3	4.10	12.40				5.2 4.19 9.39	9.5 9.60 9.35	0.23 9.83
13	?						5.3 4.18 9.48	9.7 9.70 9.59	0.23 9.93
14	n.s						5.9 4.13 10.03		
15	—						6.1 4.10 10.20		
							6.1 4.10 10.20		
							6.3 4.10 10.40		
							6.4 4.09 10.49		
							* 6.3 4.10 ~~4.06~~ 10.40 11.36		
							7.0 4.06 ~~4.07~~ 11.06		
							7.7 4.06 11.76		
							7.9 4.07 11.97		
							7.9 4.07 11.97		
							7.7 4.06 11.76		
							8.5 4.11 12.61		
							8.0 4.08 12.08		
							9.7 4.14 12.84		

Assumed 7.3
H.S.L. Jan. 14, 1915.

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Alt + 2121

MC 2879 B6

					Magn
29	9.1	8.99	9.10	4.16	13.26
29	9.1	8.99	9.10	4.16	13.26
30	9.2	9.09	9.20	4.18	13.38
31	9.5	9.49	9.55	4.23	13.78
32	f				

MC 2880-34 K

						Oc		
1	4.0	·				7.5	0.26	7.76
2	4.1	·				7.7	0.25	7.95
3	4.8	4.21		9.01		8.8	0.22	9.02
4	4.9	4.22		8.92		8.7	0.23	8.93
5	6.2	4.10		10.30				
6	6.1	4.10		10.20				
7	7.1	4.05		11.15				
8	7.4	4.04		11.44				
9	7.7	4.06		11.76				
10	7.9	4.07		11.97				
11	8.3	4.10		12.40				
12	8.7	4.13		12.83				
13	9.5	9.59	9.60 ±1	4.24	13.84			
14	9.3	9.29	9.35 ±0	4.20	13.55			
15	f							

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Scale 11 Alt. −33 October 10, 1913.

	Mc 2882			Al ~~15 − 15~~ 4+75			Mc 2883			
				Pc.					current Mag.	
1	4.3	4.28	8.68	7.7	0.25	7.95	26 9.1	4.26	13.96	Plate too poor to measure, does not show faint stars. ∴ not included in Series.
2	4.1	.		7.5	0.21	7.71	27 n.s.			
3	4.1	4.22	8.92	7.6	0.26	7.86				
4	4.3	4.28	8.58	7.8	0.25	8.05				
5	.			8.9	0.22	9.12				too far from centre
6	5.0	4.20	9.20	8.9	0.22	9.12				
7	5.0	4.20	9.20	9.0	0.22	9.22				
8	5.1	4.19	9.29	8.9	0.22	9.12				
9	4.9	4.21	9.11	8.7	0.22	8.92				
"	"	"	10	.			~~9.0~~ 9.0?	0.22	9.22?	
				~~Too faint~~ def.						
11	5.8	4.13	9.93							
12	6.3	4.10	10.40							
13	6.3	4.10	10.40							
14	7.0	4.06	11.06							
15	7.0	4.06	11.06							
16	6.8	4.07	10.87							
17	7.4	4.04	11.44							
18	7.8	4.06	11.86							
19	7.9	4.07	11.97							
20	8.3 8.30	4.10	12.40							
21	8.0 8.15	8.3 4.09	12.24							
22	8.7	4.14	12.84							
23	8.6	4.12	12.72							
24	9.1 9.15	9.0 9.2 4.17	13.32							
25	9.5 9.50	9.3 9.5 4.23	13.73							

M.O.R.

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ScR

Oct 14, 1913

	# 779 Sc 1	# 779 Sc 2	# 778 Sc 1	# 778 Sc 2
1		10.7	7.2	7.5
2		10.7	7.3	7.6
3		11.5		9.4
4		10.7		?
5		9.5		10.5
6		9.5		11.0
7	7.2	7.5		10.7
8	7.3	7.6		10.5
9		9.8		9.7
10		9.8		9.8

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ScR

Oct 14, 1913

	H 777 Sc 1	H 777 Sc 2	H 776 Sc 1	H 776 Sc 2
1		10.5	7.1 7.4	
2		10.9	7.2 7.5	
3		10.4		9.5
4		10.5		9.3?
5		9.8		11.7
6		9.3		11.9
7	7.1 7.4			11.3
8	7.2 7.5			11.3
9		9.6		9.4
10		9.7		9.5
11		9.7		

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Sec B 45 p

Sec R

Nov 10, 1913
~~Oct 14, 1913~~

	#762 Sec 1	#762 Sec 2			#764 Sec 1	#764 Sec 2	
1			10.2	10.3		12.1	12.1
2			10.2	10.3		12.1	12.2
3			10.1	10.2		12.0	12.0
4			10.1	10.2		11.9	11.9
5	8.8	9.1	9.1	9.1		11.1	11.0
6	8.8	9.1	9.1	9.1		11.1	11.1
7	7.3	7.6		7.6		10.0	10.0
8	7.2	7.5		7.5		10.0	9.9
9	8.7	9.0	9.1	9.0		10.9	10.9
Sun in 10			9.2	9.2		11.0	11.0
11	8.7	9.0	9.1	9.1		11.0	11.0
" " 12			9.2	9.2		11.3	11.3

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Lod. 43, p. 59. Underline entered in Bk. 43. "Copied" not entered, so did not examine further

" " 64 " " " " "

" " 67 " " " " "

" " 129 " " " " "

" " 187 " " " " "

Not yet copied.

Lod. 42 " 5 Net. in Crown & 25 ✓ K. Mean had been taken in Keyleyn Bk.

" " 6 23 K S. ✓ " " " "

" " 8 B 3 ✓

" " 9 D H ✓

" " 10 99 K ✓ " " " " "

" " 10 1 K ✓ " " " " "

" " 13 8 K ✓ " " " " "

" " 14 10 K ✓ " " " " "

" " 14 19 K S. ✓ " " " " "

" " 16 49 K ✓ " —

" " 16 122 K ✓

" " 25 B 5 ✓

" 187 R Sagittarii. ✓

" 188 R Camel. Not copied yet. Copied on sheets p. 201, D 6. ✓

" 190 B 5 ✓ C 7 ✓ " 202 C 8. ✓

" 193 D 5 ✓ " 205 D 7 ✓

" 195 C 5 ✓ " 206 C 7 ✓

" 19989 B 3. ✓ P.C. had not been entered. Entered by F.C. " 208 B 6 ✓

" 210 A 1 ✓

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