KG
11366
058

1914phae.proj.10590

Observing Book V

M. E. O'Reilly.

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1914phae.proj.10500

Observations on pages {10-18 / 55-62} for absolute magnitudes with yellow light, are reduced on separate sheets.

This book has been examined through page 221 by J.C. and magnitudes of faint stars underlined.

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Index. M.O.R. Bk V. fp.

Re-Measures of Faint Stars in Kapteyn Regions 4-9

Measures of Polar Sequence with New Grating (Color Index) 10 to 18

" " H.S. Regions D2 20

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Beginning here, all ~~measures~~ reductions made using Revised Magn.

Friday January 23, 1914.

Scale M. Remeasures of ft plates in K Regions.

11:30 cont from Bk II, p. 95.

Mc 2340 Pole Series 17.

	sc 2	sc 2	Mc 2344	mean.	Diff.
23	8.7	8.6	8.65	8.65 00 00	4.69 4.99
25	8.8	8.8	8.95	8.88 08 07	~~5.01~~
26	9.3	9.3	9.45	9.38 08 07	4.95
27	9.7	9.7	9.75	9.72 03 03	4.97
28	n.s.	n.s.			

Mc 2343 76 K ~~Continued~~

Alt. +16

	sc 2	sc 2	Curve	Magn.
14	8.7	8.8	4.86	13.61
15	8.8	8.8 8.9	4.87	13.70
16	9.6	9.6	5.01	14.61
17	9.7	9.7	5.02	14.72

Mc 2344 Pole.

	sc 2	sc 2
23	8.6	8.7
25	8.9	9.0
26	9.5	9.4
27	9.8	9.7
28	ft.	

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Friday January 23, 1914

Scale m. Remeasures of ft. plates in K Regions.

Mc 2896 Pole. Series 51.

	sc 2	sc 2	Mc 2901	Mean.			Diff.
20	8.7	8.65 10 8.6	8.80	8.72	07	08	4.01
23	9.4	9.30 11 9.2	9.40	9.35	05	05	3.99
25	9.6	9.60 00 9.6	9.75	9.68	08	07	4.19
26	9.9	9.90 00 9.9	.	9.90	a	.	4.43
29	ft.						

Mc 2899 80 K corpuscles

alt. +17

	sc 2	sc 2	Curve	Magn.
12	9.6	9.60 00 9.6	4.22	13.82
13	9.6	9.65 01 9.7	4.24	13.89
14	10.0	9.95 01 9.9	4.36	14.31
15	10.2	10.20 ft.	.	.

ft.

Mc 2901 Pole.

	sc 2	sc 2
20	8.8	8.8000 8.8
23	9.4	9.40 00 9.4
25	9.7	9.75 10 9.8
26	ft.	ft.
29		

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Friday January 23, 1914

Scale M. Re measures of ft. stars in K Regions.

MC 2773 Pole Series 4.

	sc 2	sc 2	MC2779	mean		Diff.
23	9.5	9.7 (9.45 10)	9.40	9.42	03 02	3.92
25	9.8	9.9 (9.85 01)	10.00	9.92	07 08	3.95
26	10.1	10.1 (10.10 00)	·	10.10	a ·	4.23
27						

MC2776 82 K. Lorture

Alt. +.17

	sc 2	sc 2	Curve	Magn.	
13	9.7	9.7 (9.70 00) (10.00)	3.95	13.65	.41
14	10.0	10.0	4.05	14.05	
15	n.s.				
defect	~~16~~				

Ø MC2779 Pole

	sc 2	sc 2
23	9.4	9.4 (9.40 00)
25	10.0	10.0 (10.00)
26	·	

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Friday January 23, 1914.

Scale m. Remeasures of ft. plates in K Regions.

Mc 2559 Pole Series 27.

	pc 2	pc 2	Mc 2565	Mean.		Diff.
25	9.4	9.4	9.60	9.50	±10	4.37
26	9.8	9.7	9.95	9.85	±10	4.48
farther than 26	‡	‡	n.s			:

Mc 2563 99 K. Corrected

	pc 2	pc 2	Att. +06 Curve	Magn.
13	9.8	9.8	4.47	14.27
14	9.9	9.8	4.50	14.35
15	10.3	10.2	4.62	14.87

Mc 2565 Pole.

	pc 2	pc 2
25	9.6	9.6
(25, 9.8) 26	9.8	9.9
27	An. s.	

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Friday January 23, 1914.

Scale M. Ft. plates remeasured. Cont.

Mc 2 359 Pole. Series 18.

	pc.2	pc.2	mc2365	Mean			Diff.
23	9.3	9.3	8.80	9.05	25	25	4.29
25	9.9	9.9	9.40	9.65	25	25	4.22
26	10.2	10.2	9.70	9.95	25	25	4.38
27							

Mc 2362 102 Kapteyn

	pc.2	pc.2	Obs. +06 Curve	Magn.
13	8.9	8.9	4.20	13.10
14	9.9	9.8	4.29	14.14
15	9.8	9.8	4.28	14.08

Mc 2365 Pole.

	pc.2	pc.2
23	~~9.5~~ 8.8	8.8
25	~~9.7~~ 9.5	9.3
26	9.7	9.7

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Friday January 23, 1914.

Scale M. It plates remeasured. cont.

MC 2588 Pole Series 29

	rc 2	rc 2	MC 2594	Mean		Diff.
23	~~9.7~~ 8.5	8.5	8.50 00	8.40	8.45 05 05	4.89
25	~~9.6~~ 9.3	9.3	9.30 00	8.85	9.08 22 23	4.79
26	9.7	9.6	9.65 10	9.50	9.58 07 08	4.75
27	10.0	9.9	9.90 00	9.90	9.90 00 00	4.79

MC 2593 103.K Rectified

Corr. for abb. +.06

	rc 2	rc 2	Curve	Magn.
12	9.3	9.2	4.78	14.03
13	9.6	9.7	4.74	14.39
14	9.7	10.0	4.72	14.57
15	9.8	10.0	4.72	14.62

9.25 10
9.65 01
9.85 12
9.90 14

MC 2594 Pole

	rc 2	rc 2
23	8.4	8.4
25	8.9	8.8
26	9.5	9.5
27	9.9	9.9

8.40 00
8.85 10
9.50 00
9.90 00

1:15.

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1914phae.proj.10590

Friday, February 21, 1914.

Scale "m" 11:15

Measures (for Color Index) of Polar Sequence with New Grating.

MC 4701

Reduction constant for "a" images 3.74

		sc 1	sc 2		Diff.	Ptm.	Images a¹ sc 1 sc 2	Mean	Diff.	sc 2	Images a² Ptm.
	5	B.					7.4	7.40 ··	-0.91	7.4	-0.97
	6	2.1 2.3			4.81	4.71	8.3	8.35 1·0	-1.24	8.4	-1.34
	7	2.6 2.8			4.51	4.64	tf.	8.80 · a	-1.49	88	-1.36
	8	4.1 4.3			3.93	3.67	9.4	9.40 ··	-1.17	9.4	-1.43
	9	5.3 5.5	5.5	5.50 ··	3.33	3.11	10.0	10.00 a·	-1.17	‡.	-1.39
	10	5.5 5.7	6.1	5.90 1 2	3.12	3.04	n.s.				
	11	6.4 6.6	6.6	6.60 ··	2.95	2.70					
Plate stained	12		·		·	·					
	13		7.7		2.60	2.55					
	14		7.7		2.95	2.74					
	15		8.3		2.78	2.48					
	16		8.4		3.00	2.67					
	17		8.7		2.93	2.48					
	18		9.1	9.15 1·0 9.2	2.91	2.78					
	19		9.6	9.60 ·· 9.6	2.82	2.62					
	20		9.7	9.65 1·0 9.6	3.08	3.00					
	21		9.8	9.80 ·· 9.8	3.16	..					
	22		9.9	9.90 ·· 9.9	3.29	..					
‡t	23		10.1	? 10.10 ·· 10.1	3.23	3.24					
	24										
	25										
Im poor	+87 15	3.9 4.1	4.4 4.6	poor	4.84	4.55	9.4	9.40 ··		9.4	
	+98 80	6.3 6.5		6.2	6.35						
	86	5.5 from 5.7		5.6	5.65						
	+88 115	5.9 6.1		6.3	6.20						

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1914phae.proj.10590

Friday February 27, 1914.

Scale M Measures of Polar Sequence with New Grating.
Mc 4701

	sc 1	sc 2	Images a¹ sc 2		Images a² sc 2
2n	1.2	1.4	7.2	7.25 01	7.3
3n	4.2	2.9	8.8	8.70 11	8.6
4n	4.1	4.3	9.5	9.40 11	9.3
5n	4.7	4.9 5.10 22 5.3	10.0	9.85 21	9.7
6n	5.6	5.8 5.95 21 6.1			10.0
7n	6.6	6.8 6.95 21 7.1			
8n		7.7			
9n		8.2 8.25 01 8.3			
10n		9.6 9.50 11 9.4			
11n		9.5 9.50 00 9.5			
12n		9.5 9.45 10 9.4			
4p	6.6	6.8 6.95 21 7.1			
5p		7.3			
6p		8.4			
9p		n.s.			
10p		n.s.			
11p					
12p					

Im from

+89 12	3.4 3.6	B	9.2	9.00 22	8.8
+88 9o	5.5 5.7	5.7		10.0 22	10.0
105	4.4 4.6	4.4	9.3	9.35 10	9.4
+88 2l	3.9 4.1	4.1	9.2	9.20 00	9.2

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1914phae.proj.10590

Friday February 21, 1914.

Scale M Measures of Polar Sequence with New Grating

Mc 47 01 cont.

Dec 1 pr. 2

a'	7.6	7.65 01 7.7
a2	8.8	8.80 00 8.8
b		
c	8.8	9.00 22 9.2
d	8.6	8.65 01 8.7
e	8.8	8.80 00 .88
f	9.5	9.50 00 9.5
g	9.4	9.40 00 9.4
h	f.	n.s.
k	9.6	9.60 00 9.6
l	f.	10.0 22 10.0
m	9.7	10.0 22 10.0
o	n.s.	
q	f.	

Stain on plate } Comes stars

12:10.

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1914phae.proj.10590

Saturday February 28, 1914.

Scale R. 11-

Measures for Color Index. (New Grating)

MC 4767 (Eqn. 60m)

		sc.1	sc.2	Diff.	Ptm.	Images sc.1	sc.2	a¹ mean.	Diff.	a²	sc.2	Ptm.
	5	1.2 1.5		4.99	4.93	8.5	9.2	8.97 ± 2 0 2	-2.48	8.8 sc.1 8.7 9.0 sc.2	8.8	-2.54
	6	3.3 3.6		3.51	3.41		10.5	10.46 1 0	-3.34	10.4		-3.44
	7	3.4 3.7		3.61	3.74		11.4	11.05 4 3	-3.74	10.7		-3.61
	8	4.9 5.2		3.03	2.75		11.4	11.40 0 0	-3.17	11.4		-3.43
	9	6.3 6.6		2.23	2.01		12.5	12.45 1 0	-3.62	12.4		-3.84
	10	6.7 7.0		2.02	1.94		12.5	12.65 1 2	-3.63	12.8		-3.71
	11	7.6 7.9		1.65	1.40		13.4	13.40 0 0	-3.95	13.4		-4.10
	12	7.8 8.1	8.1 8.10 0 0	1.76	1.44		13.5	13.60 1 1	-3.74	13.7		-4.06
We scale	13	8.6 8.9	9.3 9.10 2 2	1.20	1.15		n.s.			n.s.		
	14		9.4	1.25	1.04							
	15		10.4	0.68	0.38							
	16		10.4	1.00	0.67							
	17		10.6	1.03	0.58							
	18		11.4	1.66	0.53							
	19		12.2	0.22	0.02							
	20		12.2	0.33	0.25							
	21		12.3 12.35 1 0 12.4	0.61	"							
	22		12.6 12.70 1 1 12.8	0.49	"							
	23		12.7 12.75 1 0 12.8	0.59	0.59							
	24		13.3 13.30 0 0 13.3	0.34	"							
	25		13.4 13.40 0 0 13.4	0.47	"							
	26		F.									
+87	15	4.4 4.7				11.4	11.4	11.55 2 1		11.7		
+88	80	6.3 6.6				12.6		12.65 0 1		12.7		
	86	5.9 6.2				12.4		12.40 0 0		12.4		
	115	6.7 7.0				12.7		12.65 1 0		12.6		

10.

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Saturday February 28, 1914.

Scale R. Measures of Polar Sequence with new Grating. cont.

Mc 4767 cont.

		sc.1	sc.2	sc.2		Images a¹ sc.1		Images a² sc.1	sc.2	
2N	1.7	2.0				8.6 8.9	8.73 2 0	8.7 8.6		8.73
3N	3.6	3.9				sc.2 10.6	10.65 0 1	sc.2 10.7		
	5.3	5.6								
4N	~~4.8~~					11.7	11.65 1 0	11.6		
5N	6.2	6.5				12.2	12.30 ± 1	12.4		
6N	7.3	7.6				12.6	12.70 ± 1	12.8		
7N	8.3	8.6	~~8.3~~		8.45 ±	t.p.		t.p.		
8N	8.8	9.1	~~9.3~~		9.20 ± 1					
9N			10.3	10.3	10.30 0 0					
10N			11.6	11.8	11.70 ± 1					
11N			11.6	11.7	11.65 0 1					
12N			12.4	12.3	12.35 0 ±					
4S	7.7	8.0	8.3		8.15 ± 1					
5S	.									
6S			9.5	9.6	9.55 ± 0					
9S			.							
10N			n.s.							
11S										
+87	12	4.3	4.6			11.3	11.35 ± 0	11.4		
+88	2	5.3	5.6			11.4	11.45 0 1	11.5		
+88	90	6.4	6.7			12.8	12.70 1 ±	12.6		
	105	5.3	5.6			12.1	11.55 1 ±	11.4		

Sm. large end not comp. with scale

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Saturday February 28, 1914.

Scale R. Measures of Polar Seq. for Color Index. cont.

MC 4767

	RC.1	RC.2	
a'	8.6 8.9	9.1	9.00
a²	def.		
b	10.4		
c	11.4		
d	10.5		
e	11.2		
f	11.5		
g	11.8		
h	13.3	13.2	
k	12.3	12.3	
l	12.4	12.4	
m (deficit almost 2 stars)	def.		
o	f.		
q	13.4	13.4	
r	14.0	~~14.0~~ ...	
s			
t	14.0		
u			
w			
y	f.		

12:16.

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1914phae.proj.10590

Monday March 2, 1914.

Scale R 9.35

Measures of Polar Sequence for Color Index (new Grating)

Mc 4768 Eff. 19mm.

Reduction constant for "a" images 3.74

	pc.1	pc.2		Phot. Diff.	Obsv.	Images a'	Diff.	Images a''	Obsv.
5	1.8 2.1			4.39	4.33	10.8	1085 1085 0 1	-4.36	10.9 10.8	-4.42
6	3.2 3.5			3.61	3.51	11.5	11.45 1 0	-4.34	11.4	-4.44
7	4.1 4.4			2.91	3.04	12.4	12.40 0 0	-5.09	12.4	-4.96
8	6.4 6.7			1.53	1.47	13.4	13.40 0 0	-5.17	13.4	-5.43
9	4.9 5.2	8.2	8.20 0 0	0.63	0.41 .62	n.s.			?.	
10	7.8 8.1	8.2	8.20 15 1 0 0	0.8 2	0.74	?.				
11	8.6 8.9	9.2	9.05 1 2	0.50	0.25					
12		9.5		0.36	0.04					
13		10.4		-0.10	-0.15					
14		10.6		0.05	-0.16					
15		11.6		-0.52	-0.82					
16		12.0		-0.60	-0.93					
17		12.4	12.25 2 1 12.1	-0.62	-1.07					
18		12.7	12.70 0 0 12.7	-0.64	-0.77					
19		13.4	13.40 0 0 13.4	-0.98	-1.18					
20		13.7	13.70 0 0 13.7	-0.97	-1.05					
21		13.9	13.80 1 1 13.7	-0.84	"					
22		14.0	13.95 0 1 13.9	-0.76 -0.84	.					
23		?.								
24										
25										
+87	15	6.4 7.0 from				18.0 4	13.85 2 1		13.7	
+88	86	8.4 8.7	8.4	8.55 1 2		n.s.			n.s.	
	86	7.4 7.7				n.s.			n.s.	
	115	8.3 8.6				?.			n.s.	

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Monday March 2, 1914.

Scale R Measures of Polar Sequence for Color Index (new Grating)

Mc 4768 cont.

				Images a'		Images a''
	Rc.1	Rc.2		Rc.2		Rc.2
2N	2.3 2.6			10.3	9.95 34	9.6
3N	4.7 5.0			12.4	12.40 00	12.4
4N	6.3 6.6			12.8	13.00 ± 2	13.2
5N	7.1 7.4			13.6	13.55 0±	13.5
6N	8.3 8.6	8.2	8.40 22			
7N		10.5				
7N		10.7				
9N		11.4				
10N		~~12.7 13.2~~	13.2	12.95 32		
11N		12.7	12.7	12.70 00		
12N		13.6	13.6	13.60 00		
4P		9.4	9.4	9.40 00		
5P		.	.			
6P		10.9	10.7	10.80 11		
9P		~~7.~~				
Inn. elong. +87 12		6.5 6.8		14.2	13.95 23	13.7
+88 2		6.4 6.7		13.4	13.40 00	13.4
+88 9		7.6 7.9		14.0	14.00 00	14.0
10S		7.2 7.5		X 12.6	12.60 00	12.6

X Remeas. June 30, 1914 12.4

+ Remeas. Oct. 7, 1914 12.8

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1914phae.proj.10590

Monday March 2, 1914

Scale R Measures of Polar Sequence for Color Index (Wide Grating)
Mc4768 Cont.

	Sc.1	Sc.2	Sc.2	
a'	10.6			
a²	12.4	12.4	12.40	00
b	12.6			
c	12.7			
d	12.4			
e	12.6			
f	13.4	13.4	13.40	00
g	13.4	13.4	13.40	00
h	F.	14.0?		
k	13.6	13.9	13.75	21
l	n.s.	n.s.		
m	13.9	13.7	13.80	±
o				
q	n.s.	n.s.		

10:35

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1914phae.proj.10590

Monday March 9, 1914

Scale Measures.

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1914phae.proj.10590

Tuesday March 10, 1914.

Scale R 9.40 — Measures of H.S Regions D2 3-15°

I 30957 — See Remark in Card Catalogue — Copied

Preceding Efforces. Alt. Eq. -0.18

	pc.1	pc.2	pc.1		curve.	Magn.	Oc.	sc.2		curve.	Magn.
1	5.4	5.7	5.6	5.9	5.80	.	12.4	12.3	12.35	-4.77	7.58
2	5.7	6.0	5.8	6.1	6.05	.	12.6	12.7	12.65	-4.72	7.93
3	4.8	5.1	5.2	5.5	5.30	.	12.4	12.3	12.35	-4.77	7.58
4	5.8	6.1	5.7	6.0	6.05	.	12.7	12.6	12.65	-4.72	7.93
5	5.4	5.7	5.6	5.9	5.80	.	12.6	12.6	12.60	-4.73	7.87
6	6.2	6.5	5.6	5.9	6.20	.	13.6	13.3	13.45	-4.60	8.85
7	6.7	7.0	6.7	7.0	7.00	.	13.5	13.4	13.45	-4.60	8.85
8	6.2	6.5	6.4	6.7	6.60	.	13.4	13.4	13.40	-4.61	8.79
9	7.2	7.5	7.1	7.4	7.45	.	13.5	13.4	13.45	-4.60	8.85
10	7.3	7.6	7.4	7.7	7.65	1.26	8.91	14.0	13.9	13.95	-4.51	9.44
								F.		F		F
11	7.7	8.0	8.1		8.05	1.24	9.29					
12	8.3	8.6	8.2		8.40	1.21	9.61					
13	8.6	8.9	8.4		8.65	1.19	9.84					
14	8.7	9.0	sc.2 9.3		9.15	1.16	10.26					
15			9.7	9.6	9.65	1.02	10.67					
16			10.1	9.9	10.00	0.94	10.94					
17			10.4	10.5	10.45	0.85	11.30					
17a			11.0	11.2	11.10	0.69	11.79					
18			10.9	11.1	11.00	0.71	11.71					
19			11.4	11.5	11.45	0.60	12.05					
20			11.6	11.4	11.50	0.59	12.09					
21			12.1	12.3	12.20	.41 0.58	.61 12.58					
22			12.4	12.3	12.35	0.39	12.74					
23			12.6	12.5	12.55	0.34	12.89					
24			12.7	12.8	12.75	0.30	13.05					
25			13.1	13.2	13.15	0.24	13.39					
26			13.3	13.4	13.35	0.21	13.56					
27			13.7	13.9	13.80	0.14	13.94					

ch by L.J.

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1914phae.proj.10590

Tuesday March 10, 1914.

Scale Q Measures of H. S. Regions D 2 3-15°

I 30957 cont.

	sc.1	sc.2		Diff.	P.C. sc.2	sc.2		Diff.
5					11.4	11.4	11.4000	-4.91
6					12.1	11.8	11.9512	-4.84
8					12.8	12.8	12.8000	-4.57
9					13.4	13.4	13.4000	-4.57
10	7.5 7.8	sc.1 7.7	7.7	7.7501	13.6	13.7 (def.) 12.65	01	-4.63
11	8.2 8.5	8.2		8.3512	14.0	14.0	14.0000	-4.45
12	8.4 8.7	8.5		8.6011				
13	8.7 9.0	9.2	sc.2	9.1011				
14		9.5	9.5	9.5000				
15		10.4	10.2	10.3011				
16		10.6	10.4	10.5011				
17		11.2	10.7	10.9523				
Surf. faculty 18								
19		12.2	12.3	12.2501				
20		12.5	12.7	12.6011				
23		13.3	13.4	13.3510				
25		13.4	13.4	13.4000				
Ft 26		13.9?	13.9	13.9000				

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Tuesday March 10, 1914.

Scale Q Measures of H.S. Regions S2 3-15

I30957

Following Images. Att. Corr. -0.18.

	sc.1	sc.1	sc.1		Curve	Magn.	O.C.	sc.2	sc.2		Curve	Magn.
1	5.6	5.9	5.7	6.0	5.95	.	.	12.3	12.1	12.20	-4.79	7.41
wr. unit. 2	5.8	6.1	5.7	6.0	6.05	.	.	12.6	12.6	12.60	-4.73	7.87
3	4.8	5.1	5.1	5.4	5.25	.	.	12.2	12.2	12.20	-4.79	7.41
4	6.1	6.4	6.2	6.5	6.45	.	.	12.8	12.8	12.80	-4.69	8.11
5	5.4	5.7	5.6	5.9	5.80	.	.	12.7	12.6	12.65	-4.72	7.93
6	6.6	6.9	6.4	6.7	6.80	.	.	12.7	13.3	13.2 13.07	-4.67	8.40
7	6.7	7.0	6.8	7.1	7.05	.	.	13.3	13.4	13.35	-4.62	8.73
8	6.3	6.6	6.4	6.7	6.65	.	.	13.2	~~13.7~~ 13.3	w.s. 13.25	-4.64	8.61
9	7.2	7.5	7.3	7.6	7.55	.	.	13.5	13.4	13.45	-4.59	8.86
10	7.0	7.3	7.1	7.4	7.85	.	.	13.8	13.9	13.85	-4.53	9.32
11	7.6	7.9	8.1		8.00	1.24	9.24					
12	8.3	8.6	8.5		8.55	1.20	9.75					
13	8.6	8.9	8.6		8.75	1.18	9.93					
14	8.6	8.9	9.1 (sc.1)		9.00	1.14	10.14					
15			9.6	9.6	9.60	1.02	10.62					
16			9.7	10.2	9.95	0.97	10.92					
17			10.4	10.4	10.40	0.86	11.26					
17a			10.6	10.6	10.60	0.81	11.41					
18			10.6	10.7	10.65	0.80	11.45					
19			11.2	11.3	11.25	0.66	11.91					
20			11.3	11.3	11.30	.64 ~~0.56~~	11.94 ~~11.86~~					
21			12.2	12.2	12.20	.41 ~~0.38~~	.61 ~~12.58~~					
22			12.4	12.3	12.35	0.39	12.74					
23			12.6	12.5	12.55	0.34	12.89					
24			12.6	12.6	12.60	0.33	12.93					
25			13.2	13.4	13.30	0.22	3 12.52					
26			13.2	13.2	13.20	0.24	13.44					
27			14.0	13.8	13.90	0.12	14.02					

Cloudy E.H.

11:05

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1914phae.proj..10590

Friday March 13, 1914.

Scale R ~~Mc 4397~~ Series 169 (First half)
1:15 Mc 4391 Pole

O.C.

	Pc.1	Pc.2	mC4396		Diff
5					
6					
8					
9			mC4396		Diff
10	3.9		4.1	4.00 1 1	5.02
11	4.6		4.5	4.65 0 1	5.00
12	4.7		4.7	4.70 0 0	5.16
13	5.0		5.3	5.15 2 1	5.15
14	5.2		5.5	5.35 2 1	5.30
15	5.9		5.7	5.80 1 1	5.28
16	6.3		6.4	6.35 1 0	5.16
17	6.4	6.6 (6.50 1 1)	6.4	6.45 05 05	5.18
18	6.9	7.2 (7.05 1 2)	6.9	6.98 07 08	5.08
19	7.4	7.4 (7.40 0 0)	7.4	7.40 00 00	5.02
20	7.6	~~8.4~~ w.s.	7.6	7.60 00 00	5.13
23		8.4 (8.35 0 1) 8.3	8.3	8.32 03 02	5.02
25		8.6 (8.60 0 0) 8.6	8.65	8.62 02 03	5.25
26		8.9 (8.85 1 0) 9.8	8.85	8.85 00 00	5.48
27		9.2 (9.20 0 0) 9.2	9.25	9.22 02 03	5.47
28		9.6 (9.55 0 1) 9.5	9.45	9.50 05 05	5.61
29		7.	9.90	9.90 . a	5.76

Pc.1	Pc.2	mC4396			Diff
			mean		
4.7 (4.95 3 2)	5.2	5.40	5.18	23 22	1.31
5.9 (5.85 1 0)	5.8	5.75	5.80	05 05	1.31
6.6 (6.65 0 1)	6.7	7.05	6.85	20 20	1.38
7.3 (7.35 1 0)	7.4	7.55	7.45	10 10	1.38
7.6 (7.60 0 0)	7.6	7.65	7.62	02 03	1.40
8.4		7.9	8.15	2 3	1.40
8.4		8.4	8.40	0 0	1.46
8.1		8.7	8.70	0 0	1.60
9.3		9.3	9.30	0 0	1.35
9.6		9.6	9.60	0 0	1.48
9.7		9.8	9.75	1 0	1.65
10.1		10.1	10.10	0 0	1.53
n.s.		n.s.			

5/5 -.10 2/5 +.04

12/6 +.02 23/6 -.04

01/4 -.00 04/4 +.01

05 +.01 05 -.05

all

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Friday, March 13, 1914.

Scale K

Series 169 (First half) Continued

Card.

Mc 4392 120 K alt. corr. -.22

P.C.

	Rc 1	Rc 2	Curve	Magn.	Rc 1/Rc 2	Curve	Magn.
1	3.8				7.60 00 1.6 1.6	1.40	9.00
2	4.4		5.07	9.47	7.80 00 1.8 1.8	1.41	9.21
3	4.6		5.11	9.71	8.65 10 8.7 8.6	1.44	10.09
4	5.6		5.19	10.79	9.40 00 9.4 9.4	1.49	10.89
5	6.21		5.18	11.38	~~1.~~ . .		
6	6.4		5.17	11.57	9.7? .	1.52	11.22?
7	6.8	6.75 0± 6.7	5.14	11.89			
8	7.4	7.50 ±1 7.6	5.11	12.61			
9		7.8	5.12	12.92			
10		8.21	5.17	13.37			
11		8.6	5.27	13.87			
12		8.9 8.90 00 8.9	5.36	14.26			
13		9.4 9.40 00 9.4	5.55	14.95			
14		9.6 9.55 0± 9.5	5.62	15.17			
15		9.7 9.65 10 9.6	5.65	15.30			
16		10.1 10.00 ± 9.9	5.79	15.79			

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1914phot.rpt.105590

Friday March 13, 1914.

Scale 4 — copied — Series 169 (First half) — Card.

Mc 4393 D3 alt. corr. −18

P.C.

		PC.1	Curve	Magn.	PC.1	PC.2	Curve	Magn.
	1	B.			5.4	5.40 5.4	1.30	6.70
	2	B.			5.1	5.10 5.1	.	
	3	3.0	.		5.4	5.35 5.3	1.30	6.65
	4	3.2	.		5.6	5.70 5.8	1.31	7.01
	5	3.2	.		5.8	5.75 5.7	1.31	7.06
almost susp.	6	.			5.7		1.31	7.01
	7	3.4	.		6.2		1.34	7.54
	8	3.1	.		6.4		1.34	7.78
	9	3.6	.		6.7		1.36	8.06
	10	3.9	4.97	8.87	7.3		1.39	8.69
	11	3.8	.		7.4		1.40	8.80
	12	3.7	.		7.4		1.40	8.80
	13	4.1	5.00	9.10	7.7		1.41	9.11
	14	4.1	5.13	9.83	8.6		1.43	10.03
	15	4.6	5.11	9.71	8.5		1.43	9.93
	16	4.7	5.13	9.83	8.6		1.43	10.03
	17	4.8	5.14	9.94	8.8		1.45	10.25
	18	5.8	5.19	10.99	9.5		1.50	11.00
	19	5.4	5.18	10.58	9.4		1.49	10.89
no visit	20	5.6	5.19	10.79	9.8		1.53	11.33
	21	6.2	5.18	11.38	10.0		1.56	11.56
	22	7.2	5.11	12.31	n.s.		.	n.s.
	23	6.6	5.15	11.75	10.1?		1.58	11.68 ?
	24	6.6	5.15	11.75	n.s.			
	25	7.1	5.11	12.51				

(over)

Images elongated, and ∴ not comparable with scale.

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Friday March 13, 1914.

Scale

Series 169 (first half)

Mc 4393 cont. D 3 5-15

From prec. fragr.

	Mc. 2	Curv	Magn.
26	7.0	5.11	12.61
27	7.8	5.12	12.92
28	7.7	5.11	12.81
29	8.3	5.18	13.48
30	8.6	5.26	13.86
31	86 8.60 00 8.6	5.26	13.86
32	9.1	5.44	14.54
33	9.4 9.40 00 9.4	5.55	14.95
34	9.6 9.55 0 1/5 9.5	5.62	15.17
35	9.8 9.70 1 1/6 9.6	5.68	15.38
C	6.8	5.13	11.93
36	F. 10.2		
37	10.1 9.95 1 2/3 9.8	5.77	15.72
38	n.s.		

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1914phae.proj.10590

Friday, March 13, 1914.

Scale K Series 169 (1st half) Card.

Mc 4394 121K.

O.C.

	Dec. BR	Curve	Magn.	Dec. 2	Curve	Magn.
1	B.			5.4	1.34	6.70
2	3.5			5.9 6.2	1.34	7.39
3	3.6			6.6 6.7	1.35	8.00
4	4.6	5.11	9.71	8.4	1.43	9.83
5	4.8	5.14	9.94	8.5 8.6	1.43	9.98
6	5.2	5.18	10.38	8.8	1.45	10.25
7	5.4	5.18	10.58	9.4	1.49	10.89
8	5.8	5.19	10.99	9.7	1.52	11.22
9	6.3	5.18	11.48	n.s.		
10	6.4	5.17	11.57			
11	6.7	5.15	11.85			
12	6.8 6.6	5.15	11.85			
13	6.5 6.4	5.16	12.56			
14	7.1	5.11	12.81			
15	8.4 8.3	5.19	13.54			
16	8.8 8.7	5.31	14.06			
17	9.4 9.3	5.53	14.88			
18	9.5 9.5	5.60	15.10			
19	9.8 9.9	5.73	15.58			

No. 13 Remeasured June 1, 1914. 1/4 Error of a unit in above measures.

M.O.R.

Images difficult to measure. Do not compare with Scale.

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1914phae.proj.10590

Friday March 13, 1914.

Scale K

Series 169 (First half)

Mc 4395

Net in Orion. Att. corr. -01

Copied

Card

		R.C. sec.	Curve	Magn.
a	7.4		5.11	12.51
b	7.5		5.11	12.61
c	7.8		5.12	12.92
d	8.3		5.19	13.49
e	8.4		5.20	13.60
f	8.7		5.30	14.00
g	9.4	9.40 00 9.4	5.56	14.96
h	9.7	9.65 1 0 9.6	5.65	15.30
k	9.9	9.85 1 0 9.8	5.72	15.57
l	9.7	9.75 1/0 9.8	5.70	15.45
m	n.s.			
1	3.6	.	.	
2	3.7	.	.	
3	3.8	.	.	
4	4.7	5.14	9.84	
5	5.3	5.18	10.48	
6	5.5	5.19	10.69	
7	6.2	5.18	11.38	
(10) 8	6.9 ~~7.4~~	5.12	12.02	
9	7.4	5.11	12.51	
10	7.4	5.11	12.51	
11	7.6	5.11	12.71	
12	7.7	5.11	12.81	
13	8.4	5.20	13.60	
14	8.4	5.20	13.60	
15	8.6	5.27	13.87	

No. P.C.

P.C.	Curve	Magn.
6.5 6.75 0 1/ 6.7	1.37	8.12
7.3 7.25 1 0 7.2	1.39	8.64
7.6 7.50 1 1/ 7.4	1.40	8.90
8.6 8.60 0 0 8.6	1.44	10.04
9.3 9.30 0 0 9.3	1.48	10.78
9.3 9.35 1/0 9.4	1.49	[illegible] 10.84
9.8	1.53	11.33
~~9.4~~ n.s.		

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1914phae.proj.10590

Friday March 13, 1914.

Scale K

Series 169 (First half)

Mc 4395 Orion Neb. cont

	Dc.	pc.	Curve	Magn.
16	9.4	9.1	5.49	14.74
17	9.3	9.4	5.54	14.89
~~18~~ 22	9.7	9.7	5.68	15.38
19	10.0	10.0	5.79	15.79
20	10.3?	10.2?		

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1914phae.proj.10590

Friday March 13, 1914

Scale K

Series 169 (First half)

	Mc 439.6	Pole.	P.C.	P.C. sc 2
	Qc		~~5.4~~	
5			5.4	5.4
6			5.1	5.8
8			6.9	7.2
9			7.5	7.6
10	4.1		7.6	7.7
11	4.5		7.9	
12	4.7		8.4	
13	5.3		8.1	
14	5.5		9.3	
15	5.7		9.6	
16	6.4		9.8	
17	6.4		10.1	
18	6.9		n.s.	
19	7.4			
20	7.6			
23	8.3			
25	8.7	8.6		
26	8.8	8.9		
27	9.3	~~8.8~~ 9.2		
28	9.5	9.4		
29	9.9	9.9		

See pag 23

3:15

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1914phae.proj.10590

Saturday March 14, 1914

Scale R Series 196 Copied. Card

10:20 MC 4791 43 K. alt. corr. -06

Central Images.

	RC 1	RC 2	Curve	Magn.
1	4.6		4.09 ~~4.24~~	8.69 ~~8.84~~
2	5.6		4.09 ~~4.26~~	9.69 ~~9.86~~
3	6.3		1 4.80	10.40 ~~10.60~~
4	6.7		4.15 ~~4.33~~	10.85 ~~11.03~~
5	7.4		.26 4.42	11.66 ~~11.82~~
6	7.4		.26 4.42	11.66 ~~11.82~~
7	7.8	7.75 0 1 7.7	34 4.46	12.09 ~~12.21~~
8	7.9	7.85 0 1 7.8	.35 4.48	12.20 ~~12.33~~
9	8.4	8.45 0 1 8.5	.52 4.60	12.97 ~~13.05~~
10	8.3	8.35 ± 0 8.4	.0 4.58	12.85 ~~12.93~~
11	8.8	8.70 1 ± 8.6	.0 4.67	13.30 ~~13.37~~
12	9.4	9.40 0 0 9.4	9 4.89	14.39 ~~14.29~~
13	~~9.8~~	9.8 9.85 0 1 9.9	.30 5.08	15 1 85 ~~14.93~~
14		1		
15		1.		

Images a'

		Curve	Magn.
1			
86	7.60 0 0	72 0.87	8.32 ~~8.47~~
86	8.60 0 0	0.96 ~~1.08~~	9.56 ~~9.68~~
9.2	9.00 2 3 1	1.11 ~~1.23~~	10.11 ~~10.28~~
9.1	9.70 a	6 1.70	11.30 ~~11.40~~
1			

Images a''

RC 1
76
RC 2
86
8.7 9.1
def.
1.

Prismatic Companions.

	sec.		Curve	Magn.
1	1.9	7.85 1 0 1.8	0.63	8.54 ~~8.48~~
2	9.4	9.40 0 0 9.4	1.03 ~~0.95~~	10.43 ~~10.35~~
3	9.3	9.40 ± 1 9.5	1.03 ~~0.95~~	10.43 ~~10.35~~
4	9.7	9.70 0 0 9.7	1.13 ~~1.02~~	10.83 ~~10.72~~
5	n.s.			
6				
7				
8				
9				

No. Diff. Images.

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1914phae.proj.10590

Saturday March 14, 1914

Scale U Series 196.

mc 4796 Plate

	ec.1	ec.2	mc4796 mean	Diff	Images a¹	mc4796 mean	Images a²	Diff
5					5.9	5.80 1 1	5.90 5.85 05 05	5.7	0.64
6					6.5	6.45 1 0	6.55 6.50 05 05	6.4	0.61
8					7.6	7.60 0 0	7.50 7.55 05 05	7.6	0.68
9					7.8	7.75 0 1	8.05 7.90 15 15	7.7	0.93
10	4.1		5.1	4.90 2 2	4.12	8.4	8.40 0 0	8.45 8.42 02 03	8.4	0.60
11	5.4		5.5	5.45 0 1	4.10	8.4	8.50 1 1	8.65 8.58 08 07	8.6	0.97
12	5.1		5.9	5.80 1 1	4.06	8.1	8.65 1 0	8.95 8.80 15 15	8.6	1.06
13	6.3		6.3	6.30 0 0	4.00	8.9	8.90 0 0	9.40 9.15 25 25	8.9	1.15
14	6.5		6.6	6.55 1 0	4.10	9.3	9.30 0 0	9.55 9.42 12 13	9.3	1.23
15	6.6		6.8	6.70 1 1	4.38	9.4	9.40 0 0	9.75 9.58 18 17	9.4	1.50
16	6.8		7.2	7.00 2 2	4.40	9.7	9.65 1 0	10.00 9.82 17 18	9.6	1.58
17	7.4		7.45	7.42 02 03	4.21	9.8	9.75 0 1	9.75 a.	9.7	1.88
18	7.5	7.55 1 0 7.6	7.80	7.68 13 12	4.38					
19	7.7	7.70 0 0 7.7	8.3	8.00 30 30	4.42					
24		8.3	8.4	8.35 1 0	4.38					
23		8.1	8.80	8.75 1 0	4.59					
25		8.8 8.85 0 1 8.9	9.35	9.10 25 25	4.77					
26		9.2 9.25 0 1 9.3	9.45	9.35 10 10	4.98					
27		9.4 9.40 0 0 9.4	9.60	9.50 10 10	5.19					
28		9.7 9.70 0 0 9.7	10.00	9.85 15 15	5.26					
29		10.1? 10.10 0 0 10.1?		10.10 a.	5.56					

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Saturday March 14, 1914.

Scale U

Series 196

MC 4792 cont. Pole.

Prismatic Companions.

	pc 1	pc 2	MC 4796	Mean		Diff.	a'	MC 4796	Mean		a2	Diff.
5	5.7	5.7 (5.7000)	5.9	5.80	1 1	0.69	8.9	8.9000	9.40	8.70	8.9	-.24 -2.66
6	6.5	6.5 (6.5000)	6.6	6.55	05 05	0.56	9.6	9.6000	10.00	9.40	9.6	-.24 -2.69
8	1.5	1.4 (1.4560)	7.7	7.58	13 12	0.65	?				9.7	
9	1.8	1.8 (1.8000)	8.4	8.10	3 3	0.73	n.s.					
10	8.3	8.3 (8.3000)	8.4	8.35	05 05	0.67						
11	8.4		8.7	8.55	2 1	1.00						
12	8.7		9.5	9.10	4 4	0.76						
13	9.4		9.5	9.45	05 05	0.85						
14	9.4		9.7	9.55	2 1	1.10						
15	9.7		7	9.70	a.	1.38						
16	n.s.											
17	n.s.											

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Scale K

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Card. Series 196

Mc 4793 71K.

Alt corr. +09

	ec.1	ec.2	Curve	Magn.	Images a¹	Curve	Magn.	Images a²	¢
1	4.7		4.09 ~~4.24~~	8.79 ~~8.94~~	8.4 8.40 °°	0.90 ~~1.02~~	9.30 ~~9.42~~	8.4	
2	6.4		4.12 ~~4.30~~	10.52 ~~10.70~~	9.4 9.40 °°	1.35 ~~1.43~~	10.75 ~~10.83~~	9.4	
3	6.7	6.75 ± ° 6.8	4.17 ~~4.34~~	10.92 ~~11.09~~	~~10.2~~ 9.8 9.70	1.60 ~~1.70~~	11.30 ~~11.40~~	9.6	
4	6.8	6.80 °° 6.8	4.18 ~~4.35~~	10.98 ~~11.15~~	9.7 9.70 °°	1.60 ~~1.70~~	11.30 ~~11.40~~	9.7	
5		7.5	4.29 ~~4.42~~	11.79 ~~11.92~~	7			7.	
6		7.6	4.30 ~~4.45~~	11.90 ~~12.05~~					
7		8.2	4.46 ~~4.55~~	12.66 ~~12.75~~					
8		8.5	4.54 ~~4.62~~	13.04 ~~13.12~~					
9		8.6	4.57 ~~4.65~~	13.17 ~~13.25~~					
10		8.8 8.80 °° 8.8	4.65 ~~4.70~~	13.45 ~~13.50~~					
11		8.8 8.85 ° 8.9	4.67 ~~4.72~~	13.52 ~~13.57~~					
12		9.4 9.40 °° 9.4	4.99 ~~4.89~~	14.39 ~~14.29~~					
13		9.7 9.70 °° 9.1	5.20 ~~5.01~~	14.90 ~~14.71~~					
14		9.7 9.70 °° 9.1	5.20 ~~5.01~~	14.90 ~~14.71~~					
15		7.							

Prismatic Comparisons.

	ec		Curve	Magn.
1	7.6	7.60 °° 7.6	0.66 ~~0.60~~	8.26* ~~8.20~~
2	9.4	9.50 ' 9.6 '	1.05 ~~0.98~~	10.55 ~~10.48~~
3	10.1	10.10 °° 10.1	~~+14~~	~~11.24~~
4	n.s.	n.s		
5				
6				

no diffr. images.

* Reject. wrong image measured for P.C.
O. Nov. 5, 1914.

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Saturday March 14, 1914.

Scale U

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Mc 4791 B4 8K.

alt. corr +0.4

Central Im.

Copied

	sc 1	sc 2	Curve	Magn.	Images a'	Curve	Magn.	a 2
1	4.1		~~4.25~~	~~8.35~~	7.5 ~~7.50~~ 0.00	0.70 ~~0.89~~	8.20 ~~8.39~~	7.5
2	5.5		4.09 ~~4.26~~	9.59 ~~9.76~~	8.6 8.70 ±1	1.00 ~~1.11~~	9.70 ~~9.81~~	8.8
3	5.5		4.09 ~~4.26~~	9.59 ~~9.76~~	8.8 8.75 0 ±	1.02 ~~1.13~~	9.72 ~~9.88~~	8.7
4	6.6		4.15 ~~4.32~~	10.75 ~~10.92~~	9.4 9.50 ±1	1.42 ~~1.50~~	10.92 ~~11.00~~	9.6
5	6.1		4.16 ~~4.33~~	10.86 ~~11.03~~	9.9 9.85 1 0	1.26 ~~1.85~~	11.80 ~~11.70~~	9.8
6	6.9		4.19 ~~4.36~~	11.09 ~~11.26~~	10.0 10.00 00	2.00	12.00	10.0
7	7.5 7.55 1 0	7.6	4.29 ~~4.42~~	11.84 ~~11.97~~				
8	7.8 7.80 0 0	7.8	4.35 ~~4.47~~	12.15 ~~12.29~~				
9	5	8.4	4.51 ~~4.49~~	12.91 ~~12.99~~				
10		8.6	4.57 ~~4.65~~	13.17 ~~13.25~~				
11	8.7 8.65 1 0	8.6	4.59 ~~4.66~~	13.24 ~~13.31~~				
12	8.9 8.85 1 0	8.8	4.66 ~~4.71~~	13.51 ~~13.56~~				
13	9.4 9.45 0 1	9.5	5.01 ~~4.90~~	14.46 ~~14.35~~				
14	9.6 9.65 0 1	9.7	5.15 ~~4.99~~	14.80 ~~14.64~~				
15	9.7 9.80 ±1	9.9	5.27 ~~5.06~~	15.07 ~~14.86~~				
α	B				5.8 5.80 00	0.64 ~~0.63~~	6.44 ~~6.43~~	5.8
β	B.				5.6 5.60 00	0.65	6.25	5.6
γ	3.5				6.3 6.40 ±1	0.61 ~~0.60~~	6.91 ~~7.00~~	6.5
δ	3.2				6.4 6.35 0 ±	0.51 ~~0.60~~	~~6.86~~ 6.96	6.3
ε	4.0		4.25	8.25	6.7 6.80 ±1	0.52 ~~0.59~~	7.42 ~~7.39~~	6.9

See next page for Bris. Comp.

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Saturday March 14, 1914

Scale K Series 196 Cand.

Mc 4794 cont. 8 K. Alt. conv. +.04

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	Orig. Comp.			Images		a^2
		Conv. 3.5	Magn. 3.5			
1	7.5 — 7.50 00 — 7.5	0.69	8.19			
2	9.2 9.30 1 1 9.4	1.00 ~~0.92~~	10.30 ~~10.22~~			
3	9.4 9.35 0 1/2 9.3	1.02 ~~0.94~~	10.37 ~~10.29~~			
4	9.1 9.70 00 9.7	~~1.14~~ ~~1.64~~ ~~1.02~~	~~10.84~~ ~~11.37~~ ~~10.72~~			
5	n.s.					
6						
7						
8						
α	5.6 5.65 01 5.7	0.64	6.29	9.6 9.50 1 1	−2.65 ~~−2.94~~	6.85 ~~6.56~~ 9.4
β	5.8 5.70 1/2 5.6	0.64	6.34	9.4 9.40 00	−2.67 ~~−2.94~~	6.73 ~~6.46~~ 9.4
γ	6.3 6.30 00 6.3	0.62	6.92	10.0 10.00 00	−2.56 ~~−2.91~~	7.44 ~~7.09~~ 10.0
δ	6.4 6.30 1 1 6.2	0.62	6.92	9.6 9.65 0 1	−2.62 ~~−2.93~~	7.03 ~~6.72~~ 9.1
ε	7.4 7.35 0 1/2 7.3	0.62	7.95			

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Scale 4. Series 196 Card.

MC 4795 17 Ks.

Alt. corr. +18

Central Im.

	sc.	scz	Curve	Magn.	Images a	Curve	Magn.	az
1		5.4	4.09 ~~4.26~~	9.49 ~~9.66~~	8.7 8.65	0.99 ~~1.09~~	9.64 ~~9.74~~	8.6
2		5.7	4.10 ~~4.27~~	9.80 ~~9.97~~	8.7 8.70	1.00 ~~1.11~~	9.70 ~~9.81~~	8.7
3		6.4	4.12 ~~4.30~~	10.52 ~~10.90~~	9.4 9.45	1.35 ~~1.48~~	10.83 ~~10.93~~	9.5
4		6.4	4.12 ~~4.30~~	10.52 ~~10.70~~	9.4 9.40	1.35 ~~1.43~~	10.75 ~~10.83~~	9.4
5		7.1	4.22 ~~4.39~~	11.32 ~~11.49~~	10.0 10.00	~~2.00~~	~~12.00~~	sup.
6		7.4	4.27 ~~4.42~~	11.67 ~~11.82~~	~~I.~~			I.
7		7.4	4.27 ~~4.42~~	11.67 ~~11.82~~				
8		7.7	4.32 ~~4.45~~	12.02 ~~12.15~~				
9		8.4	4.61 ~~4.59~~	12.91 ~~12.99~~				
10		8.5	4.54 ~~4.62~~	13.04 ~~13.12~~				
11		8.6	4.57 ~~4.65~~	~~13.26~~ 13.17				
12		8.6	4.57 ~~4.65~~	13.17 ~~13.25~~				
13	9.2	9.20 00 9.2	4.87 ~~4.83~~	14.07 ~~14.03~~				
14	9.2	9.20 00 9.2	4.87 ~~4.83~~	14.07 ~~14.03~~				
15	9.3	9.30 00 9.3	4.93 ~~4.85~~	14.23 ~~14.15~~				
16	9.5	9.50 00 9.5	5.05 ~~4.92~~	14.55 ~~14.42~~				
17	9.8	9.86 01 9.9	5.30 ~~5.09~~	15.15 ~~14.94~~				

Prismatic Companions.

		Curve	Magn.
1	9.4	1.02 ~~0.90~~	10.42 ~~10.35~~
(sup?) 2	8.8	0.86 ~~0.79~~	9.66 ~~9.59~~
3	9.1	1.13 ~~1.02~~	10.83 ~~10.72~~
4	9.8	1.17 ~~1.05~~	10.97 ~~10.85~~
5	I.		
6			
7			
8			

Plate examined Oct. 2, 1914 for cause of discordance between magn. of 1 and 1 p.c.

Readings 5.4 9.3

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Saturday March 14, 1914.

Scale R Series 196

Mc 4796 Pole. →

Central Dr.

	Ac.	Images a^1		Images a^2
5		6.1	5.902 ±	5.7
6		6.6	6.550 ±	6.5
8		8.6	7.501 ±	7.4
9		7.9	8.051 ± 2	8.2
10	5.1	8.4	8.450 ±	8.5
11	5.5	8.6	8.650 ±	8.7
12	5.9	9.40	8.950 ±	8.9
13	6.3	9.4	9.4000	9.4
14	6.6	9.5	9.551 ± 0	9.6
15	6.8	9.7	9.751 ± 0	9.8
16	7.2	10.0	10.000 0	10.0
17	7.4 7.450 ± 1	7.5		
18	7.8 7.800 0	7.8		
19		8.3		
20		8.4		
22		8.8 8.800 0	8.8	
25		9.4 9.350 ± 1	9.3	
26		9.5 9.451 ± 0	9.4	
27		9.6 9.600 0	9.6	
28		10.0 10.000 0	10.0	
29		n.s.		

See page 32

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Saturday March 14, 1914.

Scarlet

Series 196

Mc 4796 Pole cont.

		Cinematic Comp. a'		a''
5	5.9	9.4	9.40 00	9.4
6	6.6	10.0	10.00 00	10.0
8	7.7	h. s.		n.s.
9	8.4			
10	8.4			
11	8.7			
12	9.5			
13	9.5			
14	9.7			
15	✓			

See page 32

12:20.

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Tuesday March 17, 1914.

Scan II
9:11

Series 196 (2nd half)

MC 4796 Dolr.

Central Images

		MC 4802		Diff.
5				
6				
8				
9				
10	4.8	4.7	4.75 1 0 2	4.27
11	5.5	5.1	5.30 2 2	4.25
12	5.8	5.3	5.55 2 3	4.31
13	6.4	6.9	6.15 2 3	4.15
14	6.5	6.1	6.30 2 2	4.35
15	6.7	6.5	6.60 1 1	4.48
16	7.3	6.6	6.95 3 4	4.45
17	7.4	7.3	7.35 0 1	4.28
18	7.7	7.5	7.60 1 1	4.46
19	8.3	7.7	8.00 3 3	4.42
20	8.5	7.8	8.15 3 4	4.58
23	8.1 (8.75 9 1 0)	8.8	8.50 8.62 1 3 1 2	4.72
25	8.6 (9.10 3 21)	9.3 9 2	9.25 9.18 0 2 0 7	4.69
26	9.4 (9.40 0 0)	9.4	9.40 9.40 0 0 0 0	4.93
27	9.7 (9.65 1 0)	9.6	9.60 9.62 0 3 0 2	6.07
28	9.9 (9.95 1 0)	10.0 7	9.95 a.	5.16
29				

Images a' MC 4802

5.8	5.70 1 1	5.55	5.58 0 3 0 2	5.6	5.62 08 07 0.87
6.6	6.50 1 1	6.30	6.35 05 05	6.4	6.40 10 10 0.71
7.5	7.45 1 0	7.10	7.25 15 15	7.4	7.28 17 18 0.95
8.3	8.25 1 0	7.60	7.90 30 30	8.2	7.92 33 32 0.91
8.5	8.50 0 0	8.00	8.25 25 25	8.5	8.25 25 25 0.77
8.6	8.60 0 0	8.46	8.52 07 08	8.6	8.52 08 07 1.03
8.8	8.75 0 1	8.55	8.67 07 08	8.7	8.65 10 10 1.21
9.4	9.40 0 0	8.85	9.12 27 28	9.4	9.18 28 27 1.18
9.5	9.45 1 0	9.05	9.22 17 18	9.4	9.25 20 20 1.40
9.7	9.75 1 0	9.40	9.60 20 20	9.8	9.58 17 18 1.50
10.1	10.05 1 0	9.65	9.82 17 18	10.0	9.85 20 20 1.55
		9.80	9.80 a.		9.80 a 1.83
		9.9			9.90 a 2.16

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Tuesday March 17, 1914

Scale U

Series 196

Mc 4796 Orb. cont

Prismatic Companions.

	O.C.	Mc 4802 mean			Diff.	Inv a1	Mc 4802 mean	Inv a2	Diff.
5	5.9	5.8	5.85	1 : 0	0.64	9.4 9.35	0 ± 1	9.5 9.42	07 08 9.3 −2.93
6	6.6	6.3	6.45	2 : 1	0.66	10.21	9.90	10.05	2 : 1 too far (elong) −2.94
8	7.1	7.6	7.65	1 : 0	0.58	n.s.			
9	8.4	8.0	8.20	2 : 2	0.63	n.s.			
10	8.5	8.3	8.40	1 : 1	0.62				
11	8.1	8.7	8.70	0 : 0	0.85				
12	9.4	8.6?	.	.	.				
13	9.5	9.3	9.40	1 : 1	0.90				
14	9.1	9.6	9.65	1 : 0	1.00				
15	~~9.6~~ 10.0	9.9	9.95	0 : 1	1.13				
16	?	n.s.							

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Tuesday March 17, 1914

Scale ½ Copied Card Series 196

MC 4797 C 3 5+15 Alt. +0.14

Central Im. Im. Diffraction Grating Im. Copied

	M.			a'	Curve Magn.	a²
1	3.5	Curve Magn.		5.8 5.85 0	0.79	6.64	5.9
2	3.7	4.26	7.96	5.6 5.70 ± 1	0.79	6.49	5.8
3	3.6			6.1 6.25 ± 2	0.79	7.04	6.4
4	3.6			6.7 6.90 ± 2	0.80	7.70	7.1
5	3.7	4.26	7.96	6.7 6.75 ± 0	0.80	7.55	6.8
6	3.7	4.26	7.96	6.8 7.00 ± 2	0.81	7.81	7.2
7	3.9	4.25	8.15	7.3 7.35 ± 0	0.83	8.18	7.4
8	3.9	4.25	8.15	7.4 7.40 0 0	0.84	8.24	7.4
9	4.6	4.24	8.84	7.6 7.60 0 0	0.88	8.48	7.6
10	4.4	4.24	8.64	7.6 7.60 0 0	0.88	8.48	7.6
11	4.4	4.24	8.64	8.4 7.75 ± 0	0.90	8.65	7.8
12	5.1	4.25	9.35	8.1 8.10 0 0	0.91	9.01	8.1
13	5.2	4.25	9.45	8.4 8.40 0 0	1.02	9.42	8.4
14	5.6	4.26	9.86	8.6 8.65 0	1.10	9.75	8.7
15	nearly sup.			8.8 8.75 0 ±	1.13	9.88	8.7
16	5.9	4.28	10.18	8.9 8.85 ± 0	1.16	10.01	8.8
17	5.8	4.27	10.07	9.2 9.20 0 0	1.32	10.52	9.2
18	6.3	4.30	10.60	9.2 9.30 ± 1	1.38	10.68	9.4
19	6.3	4.30	10.60	9.4 9.35 0 ±	1.40	10.75	9.3
20	6.6	4.32	10.92	9.5 9.60 ± 1	1.60	11.20	9.7
21	6.6	4.32	10.92	9.6 9.60 0 0	1.60	11.20	9.6
(24) 22	6.8 7.0	4.35	11.15	9.6 9.60 0 0	1.60	11.20	9.6
23	7.4	4.42	11.82	10.0 10.00 a.	2.00	12.00	∓
24	7.6	4.43	12.03				
25	7.4	4.41	11.81				
26	7.7	4.45	12.15				

H

H stars · cont on next page 45

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Tuesday March 17, 1914 -

Scale 4 Perfect Series 196

Mc 4791 .. cont C 3 5 + 15

Bris. Comps. Diffraction Images.

	Central		Curve	Magn.	a'		Curve	Magn.	a''
1	gla	5.8	0.53	6.43	9.5	9.500	-2.93	6.57	9.5
2	glb	6.4	0.60	7.00	9.8	9.701	-2.93	6.77	9.6
3	77	6.6	0.59	7.19	9.7	9.751	-2.93	6.82	9.8
4	78	7.1	0.59	7.69	∓	9.90 · a	-2.91	6.99	9.9 (large)
5	2°	6.8	0.59	7.39	∓				∓ (elong.)
6		6.7	0.59	7.29					
7		7.4	0.60	8.00					
8		7.6	0.60	8.20					
9		8.3	0.69	8.99					
10		7.7	0.61	8.31					
11		8.4	0.70	9.10					
12		8.5	0.73	9.23					
13		8.6	0.76	9.36					
14		8.8	0.80	9.60					
15		9.4	0.95	10.35					
16		9.5	0.97	10.47					
17		9.4	0.95	10.35					
18		9.4	0.95	10.35					
19		9.9	1.09	10.99					
20		9.9	1.09	10.99					
21		9.9	1.09	10.99					
22		n.s.							

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1914phae.proj.10590

Tuesday March 17, 1914

Scale K

Cand Series 196

Mc 4797 cont C 3 5+15.

	dc 2	Curve	Magn.
26a	7.6	4.44	12.04
26b	7.9	4.48	12.38
27	8.4	4.59	12.99
28	8.6 8.50 11 8.4	4.62	13.12
29	8.9 8.90 8.5 8.5 89	4.74	13.64
30	9.3 9.30 00 9.3	4.85	14.15
31	9.6 9.60 00 9.6	4.98	14.58
32	10.0 9.95 0 9.9	5.14	15.09
33	f. f		F
34			
35			

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Tuesday March 17, 1914.

Scale K Card. Series 196

Mc 4798 26 K. +0.23

Copied Diffraction Images.

Central ri.

		Curve	Magn.		a'	Curve	Magn.	a²
1	1.2				5.7 5.45	1 0.79	6.24	5.4
2	3.1	4.26	7.96		6.6 6.65	0 1 0.80	7.45	6.7
3	5.2	4.25	9.45		8.4 8.48 8.58	1 1 1.05	9.53	8.6 8.55 8.5
4	5.7	4.27	9.97		8.6 8.65	0 1 1.09	9.74	8.7
5	6.4	4.31	10.71		9.4 9.15	2 3 1.30	10.45	8.9
6	6.6	4.32	10.92		9.6 9.60	0 0 1.60	11.20	9.6
7	7.3	4.40	11.70		9.7 9.70	0 0 1.70	11.40	9.7
8	7.8	4.47	12.27		n.s.			n.s.
9	8.3	4.55	12.85					
10	8.4	4.58	12.98		n.s.			
11	8.6	4.64	13.24					
12	9.3	4.85	14.16					
13	9.4	4.88	14.28					
14	9.4	4.88	14.28					
15	9.6	4.97	14.57					
16	9.9	5.10	15.00					

Prismatic Companions.

	Central	Curve	Magn.	a'	Curve	Magn.	a²
1	5.7	0.64	6.34	9.3 9.25	1 0 -2.95	6.30	9.2
2	6.8	0.58	7.38	↓			↓
3	8.6	0.75	9.35	.			.
4	9.4	0.95	10.35				
5	9.7	1.03	10.73				
6	n.s.?						
7	~~10.0~~ 2						

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Scale K: Cand Series 196

Mc 4799 Dt 1–15 Aberr. * −0.17 Copied

Diffraction Images.

	Central Curve	Magn.	a'	Curve	Magn.	a²	
1	3.6		6.3 6.10 2 ±			5.9	
2	3.8	4.25	8.05	6.4 6.35 0 ±	0.79	7.14	6.3
3	4.0	4.25	8.25	6.6 6.60 0 0	0.80	7.40	6.6
4	3.8	4.25	8.05	6.7 6.75 ± 0	0.80	7.55	6.8
5	4.3	4.24	8.54	7.4 7.40 0 0	0.85	8.25	7.4
6	4.5	4.24	8.74	7.6 7.60 0 0	0.87	8.47	7.6
7	4.5	4.24	8.74	7.6 7.65 0 1	0.88	8.53	7.7
8	4.7	4.24	8.94	7.6 7.60 0 0	0.88	8.48	7.6
9	4.1	4.25	8.35	7.8 7.40 0 0	0.85	8.25	7.4
10	4.6	4.24	8.84	7.8 7.80 0 0	0.90	8.70	7.8
11	4.9	4.25	9.15	8.3 8.35 ± 0	1.01	9.36	8.4
12	5.2	4.25	9.45	8.5 8.55 ± 0	1.05	9.60	8.6
13	5.2	4.25	9.45	8.6 8.50 1 ±	1.05	9.55	8.4
14	5.7	4.27	9.97	8.6 8.65 0 1	1.10	9.75	8.7
15	5.7	4.27	9.97	8.8 8.85 0 1	1.17	10.02	8.9
16	5.6	4.26	9.86	9.4 9.00 a 4	1.23	10.23	8.6
17	6.1	4.29	10.39	9.4 9.35 0 ±	1.40	10.75	9.3
18	5.9	4.28	10.18	9.4 2 9.25 0 1	1.34	10.59	9.3
19	6.1	4.29	10.39	9.2 9.30 ± 0	1.37	10.67	9.4
20	6.4	4.30	10.90	9.5 9.45 0 0	1.47	10.92	9.4
21	6.7	4.33	11.03	9.5 9.60 ± 1	1.60	11.20	9.7
22	6.8	4.35	11.15	9.80. a	1.80	11.60	9.8
23	7.2	4.40	11.60				
24	7.4	4.42	11.82				
25	7.6	4.43	12.03				
26	7.6	4.43	12.03				
27							

double?

ns.

tf.

See P. 48 for ft stars.

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Tuesday March 17, 1914.

Leipsic

Scale U

Series 196. Card.

MC 4799 W4 7-15 alt −0.17

Orig. Comp.

	Central	Curve	magn.	a'	a²
1	6.3	0.60	6.90	±	±
2	6.6	0.59	7.19	±	±
3	7.2	0.59	7.79	±	±
4	7.2	0.59	7.79		
5	nearly sup.	.	.		
6	~~7.6~~	0.60	8.20		
7	7.5	0.60	8.10		
8	7.9	0.63	8.53		
9	7.7	0.61	8.31		
10	8.3	0.69	8.99		
11	..	.			
12	8.7	0.77	9.47		
13	8.6	0.75	9.35		
14	9.1	0.87	9.97		
15	9.4	0.95	10.35		
16	9.4	0.95	10.35		
17	9.3	0.92	10.22		
18	9.4	0.95	10.35		
19	9.5	0.97	10.47		
20	~~9.5~~ 9.7	1.02	10.72		
21	±				

nearly sup.

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Scale M Card. Series 196

Mc 4799 cont 7 – 15°

	Sc.	Curve	Magn.
27	8.4	4.59	12.99
28	8.3	4.56	12.86
29	8.4	4.59	12.99
30	8.6	4.65	13.25
31	8.7	4.67	13.37
32	8.9	4.72	13.62
33	9.4	4.89	14.29
34	9.4	4.89	14.29
35	9.4	4.89	14.29
36	9.6	4.97	14.57
37	∮		∮
38			

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0050.co.ruptura191

Tuesday March 17, 1914

Scale U

Card Series 196

MC 4800 B3 6 40 +450 Alt. +.22

(See P. 5 for Prin. Comp) Copied

	Central	Curve Magn.		a'	Curve Magn.	a''
1	3.6	.		t.p. 5.40 . a 0.80	6.20	5.4
2	3.5	.		5.6 5.65 0 1 0.79	6.44	5.7
3	3.6	.		5.4 5.45 0 1 0.80	6.25	5.5
4	3.8	4.26	8.06	6.6 6.60 0 0 0.80	7.40	6.6
5	3.7	4.26	7.96	6.5 6.45 1 0 0.80	7.25	6 5.4
6	3.7	4.26	7.96	6.6 6.70 ± 1 0.80	7.50	6.8
7	3.8	4.26	8.06	6.6 6.65 0 1 0.80	7.45	6.7
7a	4.0	4.25	8.25	7.4 7.40 0 0 0.84	8.24	7.4
8	4.6	4.24	8.84	7.4 7.45 0 1 0.85	8.30	7.5
9	4.7	4.24	8.94	7.6 7.65 0 1 0.89	8.54	7.7
10	4.8	4.25	9.05	8.2 8.20 0 0 0.98	9.18	8.2
11	5.1	4.26	9.36	7.8 8.10 3 3 0.96	9.06	8.4
12	5.3	4.26	9.56	8.4 8.50 ± 1 1.05	9.55	8.6
13	5.6	4.26	9.86	8.1 8.70 0 0 1.11	9.81	8.1
14	5.7	4.26	9.96	8.1 8.75 ± 0 1.12	9.87	8.8
15	5.9	4.27	10.17	8.9 9.10 2 2 1.27	10.37	9.3
16	6.3	4.30	10.60	9.2 9.25 0 1 1.35	10.60	9.3
17	6 5.1	4.28	10.38	9.1 9.15 ± 0 1.30	10.45	9.2
18	6.3	4.30	10.60	9.4 9.30 1 1 37 1.50	67 10.80	9.2
19	6.3	4.30	10.60	9.4 9.40 0 0 1.42	10.82	9.84
20	6.6	4.32	10.92	9.5 9.60 ± 1 1.60	11.20	9.7
21	6.8	4.35	11.15	9.6 9.60 0 0 1.60	11.20	9.6
21a	7.1	4.39	11.49	~~n.5 10.0 10.00 0 0~~		10.0
22	7.4	4.42	11.82	n.5 2.00	12.00	
22a	7.6	4.44	12.04			
23	7.5	4 45 3	11 95 3			
24	7.8	4.47	12.27			
25	8.2	4.53	12.73			

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Sophie Tuesday March 17, 1914.

Scale M Card. Series 196

Mc 4800 B3 64° +45°

Alt. +22

	sec z	Curr	Magn.
26	8.3	4.56	12.86
27	8.4	4.58	12.98
28	8.6	4.65	13.25
29	8.6	4.65	13.25
30	8.6	4.65	13.25
31	8.7	4.67	13.37
32	9.3	4.85	14.15
33	8.8	4.70	13.50
34	9.6	4.97	14.57
35	9.7	5.01	14.71
36			

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Tuesday March 17, 1914

Scale 11 — Lecture — Card — Series 196.

Mc 4800 — B3 — cont. ~~cont.~~ alt. +.22

Central Ind.

	P.C.	Curve	Magn.	a'	Curve	Magn.	a²
1	6.2	0.60	6.80	9.4	9.40	-2.93	6.47	9.4
2	6.4	0.60	7.00	9.6	9.60	-2.93	6.67	9.6
3	6.6	0.59	7.19	9.7	9.70	-2.93	~~6.77~~	9.7
4	6.6	0.59	7.19	~~4~~				~~4~~
5	6.7	0.59	7.29	~~5~~				~~5~~
6	7.3	0.59	7.89					
7	7.3	0.59	7.89					
7a	7.6	0.87 (.60)	8.47 (8.20)					
8	7.6	0.87 (.60)	8.47 (8.20)					
9	8.2	0.98 (.6)	9.18 (8.88)					
10	8.4	1.02 (0.70)	9.42 (9.10)					
11	8.6	1.08 (0.76)	9.68 (9.36)					
12	8.7	1.11 (0.78)	9.81 (9.48)					
13	9.1	1.26 (0.87)	10.36 (9.97)					
14	9.4	1.42 (0.95)	10.82 (10.35)					
15	9.4	1.42 (0.95)	10.82 (10.35)					
16	9.4	1.42 (0.95)	10.82 (10.35)					
17	9.5	1.50 (0.98)	11.00 (10.48)					
18	9.7	1.70 (02)	11.40 (10.72)					
19	9.9	1.90 (08)	11.80 (10.98)					
20	~~7.~~							
21								
22								
23								

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Tuesday March 17, 1914.

Scale R

Series 196 B

Mc 4801 DM Region 7 20 +45.0 Alt. +.23

	RC.1	Curve	Magn.	a'	Curve	Magn.	a²
1	3.8	4.26	8.06	7.4	7.40 0.0	0.84	8.24	7.4
2	5.1	4.25	9.35	8.3	8.35 1.0	1.00	9.35	8.4
3	5.5	4.25	9.75	8.6	8.60 0.0	1.08	9.68	8.6
4	6.6	4.32	10.92	9.5	9.45 1.0	1.47	10.92	9.4
5	7.3	4.40	11.70	t.f.				t.f.
6	7.8	4.47	12.27	n.s.				
7	8.2	4.54	12.74					
8	8.6	4.65	13.25					
9	8.7	4.67	13.37					
10	9.7	4.82	14.02					
11	9.4 9.35 0.1 9.3	4.87	14.22					
12	9.6 9.55 0.1 9.5	4.95	14.50					
13	9.6 9.65 0.1 9.7	5.00	14.65					
14	9.8 9.85 0.1 9.9	5.08	14.93					
15	10.1 10.10 0.0 10.1	5.23	15.33					

Qui. Comp.

	central	Curve	Magn.	a²
1	7.6	0.60	8.20	
2	8.6 8.70 0.1 8.8	0.77	9.47	
3	9.3	0.92	10.22	
4	9.6	0.99	10.59	
5	t.			
6	n.s.			

a' a²

no diffr. in.

12:25

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Tuesday March 17, 1914

Scale U

Series 196.

Mc 4802 Oplr.

		a'	a
5		5.6 5.55 0 i	~~5.5~~ ~~8.6~~
6		6.4 6.30 1 i	6.2
8		7.3 7.10 2 2	6.9
9		7.7 7.60 1 i	7.5
10	4.7	8.2 8.00 2 2	7.8
11	5.1	8.5 8.45 1 0	8.4
12	5.3	8.5 8.55 1 0	8.6
13	5.9	8.9 8.85 1 0	8.8
14	6.1	~~8.8~~ 9.2 9.05 2 1	8.9
15	6.5	9.4 9.40 0 0	9.4
16	6.6	9.7 9.65 1 0	9.6
17	7.3	9.9 9.80 1 1	9.7
18	7.5	9.9 .2	9.9
19	7.7		
20	7.8		
23	8.5 8.50 0 0	~~8.5~~ ~~9.5~~	
25	8.8 8.800 3	8.8	
26	9.2 9.25 0 1	9.3	
27	9.4 9.40 0 0	9.4	
28	9.6 9.60 0 0	9.6	
29	~~7~~		

See page 40

P.C. on next page.

1.20
15

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Tuesday March 17, 1914.

Scale U. Series 196

Mc 4802 Pole cont.

	O.C.	α'	α^-
5	5.8	sup. 9.5 : a	9.5
6	6.3	9.9 9.90 : :	9.9
8	7.6 / 8.0	7+	7.5
9	~~8.3~~		
10	8.3		
11	8.7		
12	8.6??		
13	9.3		
14	~~9.5~~ 9.6		
15	9.9		
16	7.5.		
17			

Im large - not comp. with scale

See page 40

1:40

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Thursday March 19, 1914.

Scale m. — For Color Index.

9 — Mc 4769

Reduction constant for "a" images of 3 diffraction grating = 3.74

no P.C.

	Rc.1	Rc.2	Mean	Images a'	Mean	Images a''
5	B.			5.4	5.50 ±1	5.6
6	B.			5.6	5.95 ±3	6.3
7	B.			6.4	6.55 ±1	6.7
8	1.3	1.5	1.5 a	1.5	7.45 ±0	1.4
9	2.6	2.8	2.8 a	8.3	8.30 ±0	8.3
10	2.7	2.9	2.9 a	8.3	8.25 ±0	8.2
11	3.6	3.8	3.8 a	8.6	8.65 ±1	8.7
12	4.4	4.6	4.6 a	9.4	9.35 ±1	9.3
13	4.9	5.1	5.1 a	9.8 noon	9.70 ±1	9.6
14	4.9	5.1	5.1 a	9.8	9.70 ±1	9.6
15	5.5	5.7 5.8	5.75 ±0	10.1	9.95 ±2	9.8
16	6.2	6.4 6.4	6.40 ±0			
17	6.4	6.6 6.6	6.60 ±0			
18		~~7.1~~ w.s. 7.2	7.2 a			
19		7.8	7.8 a			
20		~~8.4~~ 7.9 7.9	7.90 ±0			
23		8.5 8.5	8.50 ±0			
25		9.2 9.4	9.30 ±1			
26		9.4 9.5	9.45 ±1			
27		~~7.~~ ~~7.~~	~~7~~			
28						

from +87	15	1.7	1.9	1.9 a	7.4	7.50 ±1	7.6
+88	80	2.7	2.9	2.9 a	8.4	8.40 ±0	8.4
	86	2.1	2.3	2.3 a	8.2	8.30 ±1	8.4
	115	3.5	3.7	3.7 a	8.4	8.50 ±1	8.6

21	7.9	
22	8.2	
24	8.6	

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Thursday March 19, 1914.

Scale m- See Color Index-

Mc 4769 cont.

		sc.1	sc.2	mean	Images a' sct	Images a' mean	Images a² sc.2
2N	B.				4.1 4.9	5.05 ±2	5.2
3N	B.				Images a² 6.4	6.50 ±1	6.6
4N	1.6	1.8		1.8 a.	7.4	7.50 ±1	7.6
5N	2.7	2.9		2.9 a.	7.9	7.80 ±2	7.7
6N	2.9	3.1		3.1 a.	8.4	8.40 00	8.4
7N	4.3	4.5		4.5 a.	9.4	9.35 01	9.3
8N	4.9	5.1	5.3	5.20 ±1	tfp.	9.5 . a	9.5
9N	5.6	5.8	5.8	5.80 00	.		tfp.
10N	~~6.5~~	7.6		7.6 . a			.
11N		7.3		7.3 . a			.
12N		7.9		7.9 . a			.
4S	3.8	4.0		4.0 a.	9.3 (def?)	9.05 3±	8.8
5S	.			.	9.7 nearly sup	7.8 . a	7.8
6S	5.5	5.7		5.7 a.	tfp.		tfp.
9S	9.4			9.4 . a	.		.
10S	9.8			9.8 . a			.
+87	12 1.6	1.8		1.8 a.	1.5	7.35 1±	1.2
+88	2 1.4	1.6		1.6 a.	1.3	7.35 ±0	1.4
	90 2.7	2.9		2.9 a.	8.3	8.30 00	8.3
	105 1.7	1.9		1.9 a.	7.6	7.60 00	7.6

Plate is poor. Film defective in centre.

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Thursday March 19, 1914.

Scale M. — For Color Index.

MC 4769 cont.

	sc.1	sc.2	mean	Images a' sc.2	mean	sc.2 a²
a'	4.8	5.0	5.0 ±	9.5	9.50 ±	9.5
a²	6.6	6.8	6.6	n.s. ~~10.0~~		n.s. ~~9.6~~
b	5.8	6.0	6.3 6.15 ±	10.0	9.90 ±	9.8
c		7.4				
d		6.6				
e		7.3				
f		7.4				
g		7.5				
h		8.1				
k		8.2				
l		8.1				
m	~~8.2~~	8.2				
o		8.6				
q		8.1				
r		9.6				
~~s~~						
t		9.5				
poor im. w		9.9				
y		n.s.				

10:05

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Friday March 20. 1914.

Scale M. 8:45

For Color Index.

Mc4820.

	Central Inn. sc.1	sc.2	Mean	Inn. al sc 2	magn.	a^2 sc.^{2}
5				5.6	5.2 ±	5.2
6				5.3	5.35 ± 0	5.4
7	3.			5.5	5.55 ± 0	5.6
8	2.1	2.3	2.3 ±	6.7	6.75 ± 0	6.8
9	2.6	2.8	2.8 ±	7.8	7.65 ± 1	7.5
10	2.7	2.9	2.9 ±	7.6	7.70 ± 1	7.8
11	3.4	3.6	3.6 ±	8.4	8.40 00	8.4
12	3.8	4.0	4.0 ±	8.8	9.00 ± 2	9.2
13	3.9	4.1	4.1 ±	9.4? from	9.40 00	9.4
14	4.1	4.9	4.9 ±	9.6	9.65 01	9.1
15	4.9	5.1	5.1 ±	9.7	9.80 ± 1	9.9
16	5.5	5.7	5.7 ±			
17	6.1	6.3 6.2	6.25 1 0			
18	6.6	6.8 6.8	6.80 00			
19		7.5	7.5 ±			
20		7.6 7.7	7.65 01			
21		8.2	8.2 ±			
22		8.3	8.3 ±			
23		8.5 8.4	8.45 1 0			
24		def.	.			
25		8.9 9.1	9.00 ± 1			
26		9.6 9.5	9.55 01			
+	~~24~~	9.7 9.6	9.65 1 0			
+87	75	1.8 2.0	2.0	6.4	6.40 00	6.4
+88	80	2.4 2.6	2.6	7.5	7.40 1 ±	7.3
	86	2.1 2.3	2.3	7.3	7.05 3 ±	6.8
	115	2.7 2.9	2.9	7.9	7.80 1 ±	7.7

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Friday March 20, 1914.

Scale m. For Color Index

Mc 4820 cont.

	Prie	Comps.	Images.	
	sc 1 sc 2		a'	a''
5	~~6.5~~ ~~8.1~~ 6.26 4 6.45 0.1 6.5		~~8.1~~ w.s.	
6	7.2		n.s.	
7	7.4			
8	8.5			
9	8.9			
10	sup?			
11	9.9			
12				
13				
14				
15				
16				

+87 15 8.6
+88 80 9.4
86 9.3
115 9.4 v.p.

P.C. very ft. on this plate!

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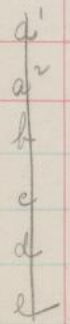
1914phae.proj.10590

Friday March 20, 1914.

Scale M. for Color Index.

Mc 4830 cont.

	p		a'	mean	a²
	pc.1	pc.2			
2N	1.3	1.5	5.8	5.70 1	5.6
3N	2.3	2.5	7.3	7.35 2	7.4
4N	2.5	2.7	7.6	7.55 0	7.5
5N	3.3	3.5	8.6	8.55 0	8.5
6N	3.8	4.0	9.5	9.40 1	9.3
7N	4.3	4.5	9.4	9.55 1	9.7
8N	5.3	5.5	9.9?	9.90 0	9.9
9N	6.2	6.4			
10N	pc 2 7.4				
11N	8.1				
12N	8.8				
4S	pc 1 3.7	3.9	9.2	9.00 2	8.8
5S				9.7 a	9.7
6S	5.6	5.8		9.9 a	9.9
9S	pc 2 9.7				
+87 12	pc 1 2.6	2.8	7.4	7.45 0	7.5
+88 2	2.5	2.7	7.6	7.60 0	7.6
+88 90	3.2	3.4	8.2	8.25 0	8.3
+88 105	2.5	2.7	7.3	7.35 1 0	7.4



See p. 62

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Friday March 20, 1914.

Scale m

For Color Index.

MC 4820 cont

Qui. Comp.

pe.2 sc.2

Overlap 8.9

t/p.

t/p.

9.4

9.3

n.s.

9.4

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1914phae.proj.10590

Friday March 20, 1914.

Scale M

For Color Sudan.

Mc 4820 cont.

	sc.1	sc.2
a'	5.7	5.8
a²		7.4
b		7.5
c		7.1
d		7.4³
e		7.4
f		8.1
g		8.3
h		9.3
k		8.8
l		8.4
m		9.1
o		9.6
q		9.5
~		7
≈		
+		7.

10:10-

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1914phae.proj.10590

Tuesday March 31, 1914.

Scale R

Series 201

9:45 Mc 4853 Pole.

		MC4858	4864	Mean.	Diff.
9					
10	4.21	4.1	4.3	4.20	0 1 1
11	4.6	4.5	4.6	4.57	0 1 0
12	4.7	4.6	4.6	4.63	1 0 0
13	4.8	5.2	4.8	4.93	1 3 1
14	5.6	5.5	5.4	5.50	1 0 1
15	5.8	5.8	5.6	5.67 (73)	1 1 1
16	6.3	6.1	5.7	6.03	3 1 3
17	6.6	6.4	6.4	6.47	1 1 1
18	6.7	6.6	6.7	6.67	0 1 0
19	7.4	7.4	7.2	7.27 (33)	1 1 1
20	7.6	7.5	7.4	7.50	1 0 1
23	8.3	8.2	8.1	8.20	1 0 1
25	8.6	8.50	8.6	8.57	03 07 03
26	8.7	8.80 1 1	8.9	8.80	mean 8.80 00 00
27	9.1	9.15 1 0	9.21	9.85	9.30 9.27 12 08 03
28	9.4	9.40 0 0	9.4	9.40	9.60 9.47 07 07 13
29	9.6	9.70 1 1	9.8	9.75	9.80 9.75 05 00 05
30	9.9	9.90 0 0	9.97	7.	9.90 a . .

a'	MC4858	a''	MC4864	Mean	Diff.
too long.					
5.3	5.30 . a 5.60 (40)	5.3	5.10	5.27	03 13 17
5.8	5.80 0 0 6.60 (5)	5.8	6.60	5.67	12 (3) 07 07
6.6	6.65 0 1 6.60 / 7.35	6.7	6.55	6.60	05 00 05
7.3	7.35 1 0 7.35 / 7.45	7.4	7.20	7.30	05 05 10
7.6	7.65 0 1 7.45	7.1	7.45	7.52	13 07 07
8.3	8.25 1 0 8.00	8.2	7.70	7.98	27 02 28
8.4	8.40 0 0 8.35	8.4	8.30	8.35	05 00 (05) 05
8.4	8.50 1 1 8.65	8.6	8.60	8.58	08 07 02
8.9	8.90 0 0 8.85 (7)	8.9	9.15	8.97 (3)	03 18 22
9.4	9.40 0 0 9.30	9.4	9.40	9.37	03 07 03
9.4	9.45 0 1 9.50	9.5	9.50	9.48	03 02 02 03 02
9.9	9.75 1 2 9.65	9.6 mean	9.75	9.72	03 07 03
9.9	9.75 ? 1 2	9.6 ? def ?	9.75 a . .		2.31
1					

P.C. next page

1914phae.proj.10590

Tuesday March 31, 1914.

Scale N

Series 701

mc 4853 cont.

Pris. Comps.

		mc4858	4864	mean			Diff.	a'	mc4858		a''	mean	Diff.
5	5.6	5.4	5.0	5.33	3	1	3	1.16	8.6	8.65 01	8.6	8.60	8.1	8.62	030202		- 2.13
6	5.1	5.6	5.6	5.63	1	0	0	1.48	t.p. 9.4		8.9	9.40	9.4	9.23	2	3	2	- 2.12
8	6.1	6.7	6.6	6.67	0	0	1	1.56	10.1	10.05 10		n.s.	10.0	10.05	a			- 1.82
9	7.6	7.4	7.3	7.43	2	0	1	1.40										
10	sup.	7.6	7.6	7.60	.	0	0	1.42										
11	8.3	7.7	sup.	8.00	3	3	.	1.55										
12	8.5	8.4	8.5	8.47	0	1	0	1.39										
13	8.1	8.6	8.6	8.63	1	0	0	1.67										
14	9.3	9.4	9.4	9.37	1	0	0	1.28										
15	9.1	9.4	9.6	9.57	1	2	0	1.51										
16	9.1	9.7	9.9	9.77	1	1	1	1.63										
17	10.0	9.8	n.s	9.90	1	1	.	1.73										
18	n.s.	n.s																
19																		
20																		

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Tuesday March 31, 1914

Scale K

Series 301

Card.

Mc 4855 a2 12+15. Alt +14 +22

			Curve	Magn.	a'		Curve	Magn.	a'
1	3.	Curve Magn.			5.5	5.45	10	1.33	6.78	5.4
2	3.5				5.5	5.55	10	1.37	6.92	5.6
not comp. 3	.				4.7	4.70	00			4.7
off plate 4	.				.					.
too far from centre 5	.				.					.
6	.				.					.
7a	3.7	.			6.5	6.45	10	1.56	8.01	6.4
8a	4.2	4.28		8.98	6.8	6.80	00	1.57	8.37	6.8
8b	4.2	4.28		8.98	7.4	7.40	00	1.56	8.96	7.4
9	4.3	4.87		9.17	7.4	7.40	00	1.56	8.96	7.4
10	4.3	4.87		9.17	7.4	7.30	11	1.56	8.86	7.2
11	4.5	5.00		9.50	7.6	7.60	a.	1.55	9.15	almost sup.
12	4.6	5.06		9.66	8.1	8.15	10	1.57	9.82	9.2
13	4.7	5.12		9.82	8.4	8.40	00	1.60	10.00	8.4
14	5.3	5.26		10.56	8.5	8.55	10	1.62	10.17	8.6
15	5.4	5.27		10.67	8.7	8.65	10	1.64	10.29	8.6
16	5.4	5.27		10.67	8.7	8.75	10	1.66	10.41	8.8
17	5.6	5.29		10.89	8.8	8.75	01	1.66	10.41	8.7
17a	6.3	5.30		11.60	9.7	9.65	10	1.93	11.58	9.6
18	6.4	5.30		11.70	9.5	9.55	10	1.90	11.45	9.6
19	6.7	5.28		11.98	10.0	9.95	01	2.09	12.04	9.9
20	6.4	5.30		11.70	9.7	9.70	00	1.96	11.66	9.7
21	6.7	5.28		11.98	~~10.0~~	9.95	01	2.09	12.04	9.9
21a	6.7	5.28		11.98						
22	7.4	5.22		12.62						
21b	7.3	5.22		12.52						
23	7.7	5.21		12.91						
24	8.1	5.22		13.32						
25	8.3	5.27		13.57						
26	8.6	5.32		13.92						

(over)

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Scale U Series 801 Card

Mc 4855 cont a2 Alt. +14

			Curve	Magn.				
27	8.6 8.65 01 8.7		5.33	13.98				
28	9.3 9.30 00 9.3		5.59	14.89				
29	9.7 9.65 1.0 9.6		5.80	15.45				
30	9.8 9.85 0 9.9		5.94	15.79				
31	10.1 10.15 1.0 10.2		6.14	16.29				
32					Pris. Comp. assumed to be P.C. of Defraudmg.			
P.C. 1	5.4		1.42	6.82	8.1 8.75 1.0	Curve Magn. -2.17	6.58	8.8
2	5.6		1.45	7.05	9.5 from 9.45 1.0	-2.05	7.40	9.4
3	5.7		1.46	7.16	9.4 9.40 0.0	-2.07	7.33	9.4
off plate edge 4	.				.		.	
5	.				.		.	
6	.				.		.	
7a	~~6.6~~ 6.7		1.53	8.23	10.0 10.00	-1.89	8.11	10.0
8a	~~7.2~~ 7.3		1.53	8.83				
8b	~~7.1~~ 7.6		1.53	9.13	n.s.			n.s.
9	7.5		1.53	9.03				
10	7.5		1.53	9.03				
11	8.3		1.53	9.83				
12	8.6		1.53	10.13				
13	8.6		1.53	10.13				
14	8.6		1.53	10.13				
15	8.8		1.54	10.34				
16	9.2		1.55	10.75				
17	9.4		1.55	10.95				
17a	10.0		1.56	11.56				
18	10.0		1.56	11.56				
19								
20								

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Scale 11 Series 201 Card

Mc 4856 B5 12 0 +45.0 Alt +22

	Central. B.	Curve Magn.		a¹ Dif. Magns. Curve Magn.	a²
1	B.			5.6	3 1.48 6.98 ~~7.08~~
2	~~5~~B			5.6	3 1.48 6.98 ~~7.08~~
3	3.1	.		6.5	1.56 8.06
4	3.1	.		6.6	1.57 8.17
5	3.6	.		6.8	1.57 8.37
6	3.1	.		6.6	1.57 8.17
7	3.1	.		7.5	1.56 9.06
8	3.1	.		7.5	1.56 9.06
9	3.9	.		7.5	1.56 9.06
10	4.4	4.93	9.33	7.8	1.56 9.36
10a	4.6	5.06	9.66	8.4	1.60 10.00
11	4.1	4.72	8.82	7.7	1.56 9.26
12	4.8	5.15	9.95	8.6	1.64 10.24
13	5.4	5.28	10.68	8.7	1.65 10.35
14	5.5	5.29	10.79	9.3	1.81 11.11
15	5.4	5.28	10.68	8.9	1.69 10.59
16	5.4	5.28	10.68	9.1	1.74 10.84
17					
17a	5.4	5.28	10.68	8.7	1.65 10.35
18	5.9	5.32	11.22	9.5	1.89 11.39
19	6.5	5.29	11.79	10.0	2.10 12.10
20	6.8	5.26	12.06	↓	
21	6.8	5.26	12.06	10.1?	2.14 12.24
22	7.3	5.21	12.51		
23	7.3	5.21	12.51		
24	7.4	5.21	12.61		
25	7.6	5.21	12.81		
26	7.7	5.20	12.90		
17b	5.6	5.30	10.90	9.2	1.77 10.97

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Mc 4856 cont. Alt. +22

		Curve	magn.						
27	7.8	5.21	13.01						
28	8.5	5.30	13.80						
29	8.1	5.35	14.05						
30	9.4	5.65	15.05						
31	9.5	5.70	15.20						
32	10.0	6.05	16.05						
33									

Occ. Comps.

				a¹				a²
1	5.6	1.45 1.39	7.05	9.2	9.30	-2.08	7.22	9.4
2	5.8	1.45	7.28 7.33	9.4	9.45	-2.05	7.40	9.5
3	6.6	1.57 2	8.12	n.s.				n.s.
4	6.7	1.57 3	8.23					
5	7.1	1.57 3	8.63					
6	7.4	1.57 3	8.93					
7	7.7	1.53	9.23					
8	7.7	1.53	9.23					
9	7.7	1.53	9.23					
10	8.2	1.53	9.73					
10a	8.6	1.54	10.14					
11	8.2	1.53	9.73					
12	8.7	1.54	10.24					
13	9.2	1.55	10.75					
14	9.3	1.55	10.85					
15	9.3	1.55	10.85					
16	9.4	1.55	10.95					
17a	9.4	1.55	10.95					
17b,c	9.3	1.55	10.85					
18	9.6	1.55	11.15					
19	10.0	1.56	11.56					
20								

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Tuesday March 31, 1914.

Scale 4

Series 201 Card.

Mc 4857 12 0 +5.0 D M Region 24+10

		Curve	Magn.	a'	Curve	Magn.	a''
01	3.7			6.3	6.35 ± 0	1.55	7.90	6.4
02	3.8			6.6	6.75 ± 1	1.58	8.33	6.9
03	4.8	5.15	9.95	7.8	8.00 ± 2	1.56	9.56	8.2
04	4.8	5.15	9.95	8.6	8.60 ± 0	1.63	10.23	8.6
05	6.3	5.30	11.60	9.5	9.50 ± 0	1.89 ~~1.61~~	11.39 ~~10.11~~	9.5
06	7.3	5.22	12.52	9.9	9.95 ± 0	2.08 ~~1.70~~	12.03 ~~11.65~~	10.0
07	7.1	5.20	12.90					
08	8.3	5.27	13.57					
09	8.1	5.35	14.05					
010	8.1	5.35	14.05					
011	9.1	8.95 ± 1	8.8	5.43	14.38			
012	9.4	9.40 ± 0	9.4	5.65	15.05			
013	9.6	9.50 ± 1	9.4	5.70	15.20			
014	9.4	9.50 ± 1	9.6	5.70	15.20			
015	9.7	9.60 ± 1	9.5	5.77	15.37			

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Tuesday, March 31, 1914

Series U

Series 201

Mc 4858 Pole

		a' not comp.		a²
5				5.4
6		5.6	5.60 00	5.6
8		6.6	6.60 00	6.6
9		7.3	7.35 1 0	7.4
10	4.1	7.4	7.45 0 1	7.5
11	4.5	8.8	8.00 2 2	8.2
12	4.6	8.3	8.35 1 0	8.4
(5.4 - W.S.) 13	5.4^2	8.6	8.65 0 1	8.1
14	5.5	8.8	8.75 0 1	8.1
15	5.8	9.2	9.30 1 1	9.4
16	6.1	9.5	9.50 00	9.5
17	6.4	9.6	9.65 0 1	9.1
18	6.6	7.		7.
19	7.4			
20	7.5			
23	8.2			
25	8.4 $^{8.50}_{8.6}{}^{1}$			
26	8.1 $^{8.80}_{8.9}{}^{1}$			
27	9.3 $^{9.35}_{9.4}{}^{0}$			
28	9.4 $^{9.40}_{9.4}{}^{0}$			
29	9.1 $^{9.75}_{9.8}{}^{0}$			
30	7.			

See page 63

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Tuesday, March 31, 1914.

Scale U

Series 201

Mc 4858 Orbs cont

		P.C.	a'	a^2
5	5.4		tfs.	8.6 hom.
6	5.6		t.f.	8.9
8	6.7			
9	7.4			
10	7.6			
11	7.7			
12	8.4			
13	8.6			
14	9.4			
15	9.4			
16	9.7			
17	9.8			
18	n.s.			
19				
20				

See page 64

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Tuesday March 31, 1914

Scale 2

Series 201

Card

*MC 4859 D 7 13-15 (MC 4861 superposed on this plate.) Alt. – 18

		Curve	Magn.		a'	Curve	Magn.	a²	
	1	3.6			5.5	5.45 ' 0	1.32	6.77	5.4
	2	3.6			5.4	5.30 ''	1.25	6.55	5.2
near edge.	3	3.				5.64 .a	1.39	6.99	5.6
	4	3.9			6.6	6.60 ° °	1.57	8.17	6.6
	5	3.6			6.4	6.50 ' '	1.56	8.06	6.6
	6	3.6			5.7	5.65 ' 0	1.38	7.03	5.6
	7	3.8			5.4	6.35 ° '	1.55	8.90	6.3
	8	3.8			6.6	6.55 ° '	1.56	8.11	6.5
	9	3.9			6.6	6.60 ° °	1.57	8.17	6.6
badly damaged.	10	.			6.6	6.60 .a	1.57	8.17	
	11	4.2	4.79	8.99	def.	7.10 .a	1.57	8.67	7.1
	12	4.8	5.15	9.95	7.8	7.70 ''	1.55	9.25	7.6
	13	5.0	5.19	10.19	8.3	8.25 ' 0	1.58	9.83	8.2
	14	4.8	5.15	9.95	8.2	8.25 ° '	1.58	9.83	8.3
	15	5.4	5.27	10.67	8.4	8.40 ° °	1.59	9.99	8.4
	16	5.4	5.27	10.67	8.2	8.25 ° '	1.58	9.83	8.3
	17	5.4	5.27	10.67	8.5	8.55 ' °	1.61	10.16	8.6
Scratched	18	.			.			.	
	19	6.2	5.31	11.51	9.4	9.30 ''	1.80	11.10	9.2
	20	6.4	5.30	11.70	9.4	9.40 ° °	1.85	11.25	9.4
	21	6.6	5.28	11.88	9.6	9.60 ° °	1.92	11.52	9.6
	22	6.7	5.27	11.97	tp.				.
	23	7.5	5.21	12.71	n.s.				.
	24	7.6	5.20	12.80	n.s.				.
Scratched	25	.			.				
"	26	.							

*Film damaged in centre of plate: some stars not measured.

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Tuesday March 31. 1914.

Scale U Series 201 Card.

MC *4859 cont. D 7 13-15 Alt -18

Orio. Comps.

		Curve	Magn.			Curve	Magn.	a'	a''	Copied
Scratched	27	.			1	6.3	1.51	7.81	9.8	9.1 v.p. -1.97 7.78
"	28	.			2	6.4	1.52	7.92	9.7	9.6 -2.00 7.65
	29	7.9	5.21	13.11	3	6.7	1.52	8.22		
	30	8.6	5.32	13.92	4	6.6	1.52	8.12	n.s.	n.s.
	31	8.5 8.55±0 8.6	5.30	13.85	5	6.6	1.52	8.12	7	5.
"	32	.	.		6	6.5	1.52	8.02	10.1	10.1 -1.85 8.25
	33	8.1 8.70 00 8.1	5.35	14.05	1	6.8	1.53	8.33		
	34	8.6 8.60 00 8.6	5.32	13.92	8	7.4	1.53	8.93		
	35	8.9 9.05±2 9.7	5.48	14.53	9	7.3	1.53	8.83		
	36	9.7 9.65±0 9.6	5.80	15.45	10	.				
					11	7.6	1.53	9.13		
					12	8.2	1.54	9.74		
					13	8.4	1.54	9.94		
					14	8.4	1.54	9.94		
					15	8.6	1.54	10.14		
					16	8.6	1.54	10.14		
					17	8.6	1.54	10.14		
					18	.				
					19	9.7	1.56	11.26		

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Tuesday March 31. 1914.

Copied

Scale K

Series 201

Card

Mc 4860

C7 13+15 { Mc 4862 superposed on this plate. — Alt. +17

		a' Curve	Magn.	a² Copied Curve	Magn.	
on extreme edge.	1					
	2	3.7		5.5	5.55 1.0	1.38 6.93 5.6
	3	3.8		6.4	6.40 0.0	1.55 7.95 6.4
	4	3.6		6.6	6.60 0.0	1.57 8.17 6.6
	5	3.8		6.6	6.60 0.0	1.57 8.17 6.6
	6	4.1	4.62 7 8.72 8	7.4	7.40 0.0	1.576 8.96 7.4
	7	4.5	5.00 9.50	7.4	7.40 0.0	1.576 8.96 7.4
	8	4.6	5.06 9.66	7.6	7.60 0.0	1.55 9.15 7.6
	9	4.6	5.06 9.66	7.7	7.70 0.0	1.55 9.25 7.7
	10	4.6	5.06 9.66	8.4	8.35 0.1	1.59 9.94 8.3
	11	4.6	5.06 9.66	8.4	8.40 0.0	1.60 10.00 8.4
(15)	12	5.4 2	5.24 10.44	7.2	8.6 8.50 1.1	1.61 10.11 8.4
	13	5.5	5.29 10.79	8.6	8.60 0.a	1.63 10.23 8.4 nearly sup.
	14	5.4	5.27 10.67	8.6	8.85 2.3	1.68 10.53 9.1
	15	5.1	5.30 11.00	9.2	9.00 2.2	1.72 10.72 8.8
	16	5.1	5.30 11.00	9.2	9.20 0.0	1.77 10.97 9.2
	17	6.3	5.30 11.60	9.4	9.40 0.a	1.85 11.25 sup.
	18	6.3	5.30 11.60	9.8	9.65 2.1	1.92 11.57 9.5
	19	6.6	5.28 11.88			
	20	6.6	5.28 11.88			
	21	7.5	5.21 12.71			
	22	7.8	5.21 13.01			
	23	7.1	5.21 12.91			
	24	8.5	5.30 13.80			
	25	8.6	5.32 13.92			
	26	8.1	5.35 13.4 05			

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1914PHAE..PRJ..10560

Tuesday March 31, 1914.

Scale R Series 201 Card

Mc 4860 Cy cent Oct. +17

			Curve	Magn.
*	27	9.4 9.3 (9.350)	5.62	14.97
	28	9.3 8.4 (9.350)	5.62	14.97
looks def.	29	9.5 9.5 (9.5000)	5.70	15.20
	30	9.8 9.8 (9.8000)	5.92	15.72
	31	10.0 10.0 (10.000?)	6.05	16.05?
	32			
	33	Obs. Comp.		
Edge	1		Curve	Magn.
	2	6.4	1.51	7.91
	3	6.4	1.51	7.91
	4	6.5	1.52	8.02
	5	6.7	1.53	8.23
	6	7.4	1.53	8.93
	7	7.6	1.54	9.14
	8	7.6	1.54	9.14
	9	8.3	1.53	9.83
	10	8.5	1.53	10.03
	11	8.6	1.53	10.13
	12	8.6	1.53	10.13
	13	9.2	1.55	10.75
	14	9.2	1.55	10.75
	15	9.1	1.55	10.65
	16	9.6	1.55	11.15
	17	9.7	1.56	11.26
	18	def.		
	19	n.v.		
	20			

* Re-measured no. 27 independently, 89. Images does not compare well with scale. Measure might have been 9.3.

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Retain, as difference is apparently accidental H.S.L. July 17, 1914.

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1914phae.proj.10590

Tuesday March 31, 1914

Scale R Series 701 Card

MC 4863 DM 13 30 +17.5 Alt. +17

		Curve	Magn.	a'	a''	Curve	Magn.
1	8.6			6.6 6.75	8.9	1.58	8.33
2	4.1	4 2.72	8.82	7.5 7.5000	7.5	1.56	9.86
3	5.1	5.22	10.32	8.6 8.60 00	8.6	1.63	10.23
4	5.3	5.25	10.55	9.3 9.25 1 0	9.2	1.79	11.04
5	5.6	5.30	10.90	9.4 9.45 0 1	9.5	1.87	11.32
6	6.8	5.26	12.06	n.s.			
7	7.5	5.21	12.71				
8	7.9	5.21	13.11				
9	8.1	5.22	13.32				
10	8.4	5.28	13.68				
11	8.6 8.65 0 1	8.1	5.33	13.98			
12	9.4 9.40 0 0	9.4	5.65	15.05			
13	9.6 9.55 0 1	9.5	5.74	15.29			
14	9.5 9.55 1 0	9.6	5.74	15.29			
15	9.9 10.00 9.95 1 1	10.1	6.05	16.05			

Prin. Comp.

		Curve	Magn.
1	6.8	1.53	8.33
2	7.9	1.53	9.23
3	9.1	1.55	10.65
4	9.5	1.55	11.05
5	9.7 9.7 1	1.56	11.26
6			
7			
8			

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1914phae.proj.10590

Tuesday March 31, 1914 -

Scale U Series 201

Mc 4864 Pole.

		a'	a²
5		5.1 5.10 00 5.1	
6		5.6 5.60 00 5.6	
8		6.5 6.55 1 0 6.6	
9		7.2 7.20 00 7.2	
10	4.3	7.5 7.45 1 0 7.4	
11	4.6	7.7 7.70 00 7.7	
12	4.6	8.2 8.30 1 8.4	
13	4.8	8.6 8.60 00 8.6	
14	5.4	9.1 9.15 1 0 9.2	
15	5.6	9.4 9.40 00 9.4	
16	5.1	9.5 9.50 00 9.5	
17	6.4	9.7 9.75 1 0 9.8	
18	6.7	5. 5.	
19	7.2		
20	7.4		
23	8.1		
25	8.6 8.60 00 8.6		
26	near defect.		
27	9.2 9.30 1 9.4		
28	9.6 9.60 00 9.6		
29	9.8 9.80 00 9.8		
30	5.		
31			

See page 63

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Tuesday March 31, 1914.

Scale N

Series 201

Mc 4864 Orb cont.

		a'	a''
5	5.0	8.6	8.6
6	5.6	9.4	9.4
8	6.6	n.s	n.s.
9	7.3		
10	7.6		
nearly sufs. 11			
12	8.5		
13	8.6		
14	9.4		
15	9.6		
16	9.9		
17	n.s.		
18			
19			
20			

8 60 00

9 40 00

Su page 64.

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1914phae.proj.10590

Thursday April 2, 1914.

Scale 2

10:50

Mc 3684

Series 110.

Pole.

G.C.

								Mc 3689 mean		Diff.
5						6.4 (mean a little ° low) 6.40 6.4		6.55	6.48 02 07	0.01
6						6.6 6.65 01 6.7		7.15	6.90 25 25	1.21
8						7.7 7.70 00 7.7		7.80	7.75 05 05	0.48
9		Mc 3889 mean		Diff.		8.6 8.50 11 8.4		8.60	8.55 05 05	0.28
10	4.6	4.7	4.65 01	4.37		sup. sup.		8.60	8.60 . a	0.42
11	5.3	5.3	5.30 00	4.25		9.3 9.25 10 9.2		8.8	9.02 23 22	0.53
12	5.4	5.5	5.45 01	4.41		9.4 9.40 00 9.4		9.4	9.40 00 0	0.46
13	5.1	6.0	5.85 12	4.45		9.1 9.70 00 9.1		9.6	9.65 05 05	0.65
14	6.4	6.3	6.35 01	4.30		9.8 9.80 00 9.8		9.8	9.80 00 00	0.85
15	6.1	6.6	6.65 10	4.43		F.	F.	7	. .	.
16	7.1	7.2	7.15 10	4.25						
17	7.4	7.5	7.45 01	4.18						
18	7.7	7.7	7.70 00	4.36						
19	8.3 8.25 10 8.2	8.3	8.28 03	02 4.14						
20	8.5 8.45 10 8.4	8.45	8.45 00	00 4.28						
23	8.1 8.75 10 8.8	8.75	8.75 00	00 4.59						
25	9.3 9.35 10 9.4	9.40	9.38 03	02 4.49						
26	9.7 9.65 10 9.6	9.55	9.60 05	05 4.73						
27	scratch over →	9.70	9.70 . a	4.99						
28	M.S.	M.S.	M.S.							
29										

Note No. 5 Near br. star.

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1914phae.proj.10590

Thursday April 2, 1914.

Scale 1

Card. Series 110.

Mc 3685 134 K. Alt. -19

P.C.

		Curve	Magn.		Curve	Magn.
1	3.7			7.55 01 1.6 1.5	0.34	7.89
2	4.7	4.36	9.06	8.45 01 8.4 8.5	0.42	8.87
3	5.1	4.35	9.45	8.75 01 8.8 8.1	0.45	9.20
4	5.6	4.32	9.92	9.40 00 9.4 9.4	0.56	9.96
5	5.8	4.31	10.11	9.50 01 9.6 9.4	0.58	10.08
6	6.4	4.30	10.70	10.05 10 10.1 10.0	0.75	10.80
7	6.4	4.30	10.70	9.95 10 9.9 10.0	0.70	10.65
8	6.8 6.70 11 6.6	4.30	11.00			
9	6.7 6.65 10 6.6	4.30	10.95			
10	7.4	4.27	11.67			
11	7.1	4.26	11.96			
12	7.1	4.26	11.96			
13	8.3	4.33	12.63			
14	8.8 8.75 01 8.7 ~~9.3~~	w.s. 4.44	13.19			
15	8.6 8.60 00 8.6	4.40	13.00			
16	9.4 9.40 00 9.4	4.71	14.11			
17	9.4 9.40 00 9.4	4.71	14.11			
18	9.5 9.45 10 9.4	4.73	14.18			
19	9.9 9.90 00 9.9	4.96	14.86			

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Scale U Series 110. Copied Card

Mc 3686 46 KS. Cat. +02

		Curve	Magn.	O.C.	Curve	Magn.
1	4.5	4.38	8.88	8.2 8.15 00 8.1	0.40	8.55
2	4.6	4.37	8.97	8.4 8.40 00 8.4	0.42	8.82
3	5.6	4.32	9.92	9.4 9.50 1 9.6	58 0.48	10.08 9.93
4	6.3	4.30	10.60	9.1 9.75 1 0 9.8 10.4	6 0.45	40 10.20
5	6.7	4.30	11.00	10.1 10.10 00 10.1	75 0.50	85 10.60
6	7.1	4.28	11.38			
7	7.4	4.27	11.67			
8	7.7	4.27	11.97			
9	7.8	4.27	12.07			
10	8.4	4.35	12.75			
11	8.6	4.40	13.00			
12	8.1 8.75 1 0 8.8	4.44	13.19			
13	9.3 9.30 00 9.3	4.67	13.97			
14	9.4 9.40 00 9.4	4.71	14.11			
15	9.1 9.70 00 9.1	4.85	14.55			
16	9.9 9.90 00 9.9	4.96	14.86			

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1914phae.proj.10590

Corrected Thursday April 2, 1914

Scale V

Series 110.

MC 8687 1 K 9f 18 56-0.6 Art. +05

		Curve	Magn.	O.C.	Curve	Magn.
	1 3.1			7.30 0.0		
(O.C. too close to bright star)	2 4.6	4.37	8.97	7.3	7.3	7.60
Cannot tell which is O.C. several stars close.	3 5.8	4.32	10.12	~~8.1~~ 7.87 8.1	0.45	~~9.15~~ → Reject. See note
	4 6.4	4.30	10.70	9.8 9.80 9.8	0.6 4.46	10.46 14.26
	5 6.6	4.30	10.90	n.s.	n.s.	
	6 7.4	4.27	11.67			
	7 7.5	4.27	11.77			
	8 7.6	4.27	11.87			
	9 8.8	4.34	12.64			
	10 8.1	4.42	13.12			
	11 9.3 9.25 10 9.21	4.64	13.89			
	12 9.4 9.350 1 9.3	4.69	14.04			
	13 9.4 9.350 1 9.3	4.69	14.04			
	14 9.6 9.6000 9.6	4.80	14.40			
	15 9.6 9.65 0 1 9.7	4.82	14.47			

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1914phae.proj.10590

Lupus Thursday April 2, 1914.

Scale U Series 110.

MC 3688 4 Ks. 18 56 +4.1 Att. +10

Adopted Sequence			Curve	Magn.	A.C.	Curve	Magn.
(2) 1	1	4.6[3]	4.38	8.68	8.2 8.25 8.3 01	0.41	8.66
2	2	4.5	4.38	8.88	8.6 8.60 8.6 00	0.44	9.04
	3	4.7	4.37	9.07	8.8 8.75 8.7 01	0.46	9.21
3	4	5.4	4.33	9.73	9.4 9.45 9.5 01	0.58	10.03
4	5	6.3	4.30	10.60	10.0 10.00 10.0 00	0.72	10.72
	6	6.6	4.30	10.90			
8	7	7.3	4.28	11.58			
	8	7.8	4.27	12.07			
	9	8.4	4.35	12.75			
11	10	8.6	4.40	13.00			
	11	8.1 8.70 8.7 00	4.43	13.13			
	12	9.4 9.25 9.1 21	4.63	13.88			
13	13	9.3 9.25 9.2 10	4.63	13.88			
	14	9.5 9.45 9.4 10	4.73	14.18			
14	15	9.6 9.65 9.7 01	4.83	14.48			

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Thursday April 2, 1914.

Scale 11

Series 110

11.51 mc # 3689 Ovle

Oc.

5			6.55 0 ± 6.6 6.5
6			7.15 0 ± 7.2 7.1
8			7.80 0 0 7.8 7.8
9			8.60 0 0 8.6 8.6
10	4.7		8.6000 8.6
11	5.3		8.8
12	5.5		9.4
13	6.0		9.6
14	6.3		9.8
15	6.6		F
16	7.2		ms
19	7.5		
18	7.7		
19	8.3		
20	8.4	8.450 1 8.5	
23	8.7	8.75 ± 0 8.8	
25	9.4	9.40 0 0 9.4	
26	9.6	9.550 ± 9.5	
27	9.7	9.700 9.7	
28	ms		

See page 79

11.56

W

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1914phae.proj.10590

Thursday April 2, 1914.

Scale R Series 110.

MC 3690 4 K 8 04+74.8 Alt. +14

			Curve	Magn.		Curve	Magn.	
double.	1	.			7.4 7.35 7.3	0.30	7.65	
	2	4.6	4.37	8.97	8.4 8.35 8.3	0.41	8.76	
	3	5.4	4.33	9.73	9.4 9.40 9.4	0.55	9.95	
	4	5.9	4.31	10.21	9.5 9.50 9.5	0.59	10.09	Im. large.
	5	6.7	4.29	10.99	n.s.			
	6	7.3	4.28	11.58	~~9.3~~ 7.			
	7	7.7	4.27	11.97				
	8	7.7	4.27	11.97				
	9	8.4	4.36	12.76				
	10	8.4	4.36	12.76				
(9)	11	~~8.4~~ 8.5 8.45 8.4	4.37	12.82				
	12	8.9 8.75 8.6	4.44	13.19				
	13	9.4 9.40 9.4	4.71	14.11				
	14	9.6 9.60 9.6	4.81	14.41				
	15	9.8 9.75 9.7	4.89	14.64				

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Copied Thursday April 2, 1914.

Scale 21

Series 110.

mc 3691 64K. Alt. +22

P.C.

		Curve	Magn.		Curve	Magn.
1	4.4 4.15 2 3 3.9	4.39	8.54	7.65 0 1 1.6 7.1	0.37	8.02
2	4.6	4.37	8.97	8.45 1 0 8.5 8.4	0.58 .42	8.87 9.03
3	4.1	4.36	9.06	8.70 0 0 8.1 8.7	0.63 .45	9.15 9.33
4	~~5.7~~ 4.1	4.32	10.02	def. def.		
5	6.4	4.30	10.70	10.1 10.1 10 0 0	0.76	10.86
6	6.7	4.30	~~10.70~~ 11.00			
7	7.4	4.27	11.67			
8	7.7	4.27	11.97			
9	8.4	4.35	12.75			
10	8.7 8.70 0 0 8.7	4.42	13.12			
11	8.9 9.05 1 2 9.2	4.55	13.60			
12	9.6 9.65 0 1 9.7	4.83	14.48			
13	9.6 9.60 0 0 9.6	4.81	14.41			
14	10.2 10.20 0 0 10.2	.	.			
15	n.s.					

12:20

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1914phae.proj.10590

Saturday April 4, 1914.

Scale u
9.19

MC 3731

Series 115

Orbs.

P.C. not meas. See Note in Journal.

	X	MC 3736	mean		Diff.
5					
6					
8					
9	X	MC 3736	mean		Diff.
10	4.8	4.7	4.7 4.73	1 0 0	4.29
11	5.3	5.4	5.2 5.30	0 1 1	4.25
12	5.6	5.6	5.4 5.53	1 1 1	4.33
13	6.2	6.3	5.8 6.10	1 2 3	4.20
14	6.4	6.6	6.1 6.37	0 2 3	4.28
15	6.7	6.8	6.6 6.70	0 1 1	4.38
16	7.4	7.3	6.7 7.13	3 2 4	4.27
17	7.5	7.6	7.1 7.40	1 2 3	4.23
18	7.8	7.7	7.6 7.70	1 0 1	4.36
19	8.4	8.3	7.7 8.13	3 2 4	4.29
20	8.6 8.60 00 8.6	8.60	8.20 8.47	13 13 27	4.26
23	8.8 8.75 01 8.7	8.85	8.60 8.73	02 12 13	4.61
25	9.6 9.60 00 9.6	9.35	9.30 9.42	18 07 12	4.45
26	9.9 9.80 11 9.7	9.60	9.55 9.65	15 05 10	4.68
27	10.2 10.25 01 10.3	9.70	9.80 9.92	33 22 12	4.77
28			10.30 10.30	. . a	4.81

9.23 W

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1914phae.proj.10590

Saturday April 4, 1914

Scale 11 — Card. — Series 115

Mc 3 1/2 32 — 46 Ks. — Alt. +02

			Curve	Magn.
1	3.9		~~4.40~~	~~8.30~~
2	3.9		~~4.40~~	~~8.30~~
3	5.4		4.28 ~~4.33~~	9.68 ~~9.73~~
4	6.3		4.28 ~~4.30~~	10.58 ~~10.60~~
5	6.7		4.29 ~~4.30~~	10.99 ~~11.00~~
6	6.6		4.29 ~~4.30~~	10.89 ~~10.90~~
7	7.3		4.30 ~~4.27~~	11.60 ~~11.57~~
8	7.6		4.30 ~~4.27~~	11.90 ~~11.87~~
9	7.8		4.31 ~~4.27~~	12.11 ~~12.07~~
10	8.4		4.35 ~~4.35~~	12.75
11	8.6	8.60 00 8.6	4.36 ~~4.40~~	12.96 ~~13.00~~
12	8.9	8.85 10 8.8	4.40 ~~4.47~~	13.25 ~~13.32~~
13	9.4	9.40 00 9.4	4.53 ~~4.71~~	13.93 ~~14.11~~
14	9.6	9.65 01 9.7	4.60 ~~4.83~~	14.25 ~~14.48~~
15	~~1~~	~~1~~		F
16	10.1	10.10 00 10.1	4.78	14.88

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1914phae.proj.10590

Saturday April 4, 1914.

Eclipse

Scale K

Card. Series 115

mc 3134 81 K. alt +16

		Curve	Magn.
1	3.1		
2	4.4	~~4.37~~	~~8.77~~
3	5.6	4.28 ~~4.32~~	.88 9.92
4	6.1	4.28 ~~4.31~~	.38 10.41
5	5.8	4.28 ~~4.31~~	.8 10.01
6	6.6	4.29 ~~4.30~~	.89 10.90
7	7.4	4.30 ~~4.27~~	.70 11.67
8	7.6	4.30 ~~4.27~~	.90 11.87
9	1.1	4.31 ~~4.27~~	.01 12.97
10	8.5	.5 4.38	.5 12.87
11	8.6 8.55 0 8.5	.6 4.39	.1 12.97
12	8.8 8.75 0 8.7	.39 ~~4.43~~	.4 13.18
13	9.2 9.2000 9.2	.48 4.61	.68 13.81
14	9.5 9.55 10 9.6	4.59 ~~4.78~~	.14 14.33
15	9.7 9.7000 9.7	4.62 ~~4.85~~	.32 ~~14.55~~

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1914phae.proj.10590

Sat. April 4. 1914.

Scale x Series 110 Cooper Card.

MC 31/35 B8 20h +45° +22

		Curve	Magn.
60 for frame. 1 ~~5~~			
double. 2			
3	3.3		
4	3.8		
~~double.~~ 5	3.8		
6	3.7		
7	4.4		
8	4.4		
9	4.4		
10	4.5		
11	4.6	4.26	8.86
12	4.7	4.26	8.96
13			
14	5.4	4.28	9.68
15	5.4	4.28	9.68
16	5.6	4.28	9.88
17	5.8	4.28	10.08
18	6.5	4.29	10.79
19	6.6	4.29 ~~4.30~~	10.89 ~~10.90~~
20	7.1	4.30 ~~4.32~~	11.40
21	7.4	4.35	11.75
22	7.5	4.36	11.86
23	8.1	4.42 ~~4.46~~	12.55
24	8.4	4.53	12.93
25	8.4 8.45 01 85	4.58	13.80
26	9.2 9.25 01 93	4.89	14.08

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Saturday April 4, 1914.

Scale U

Series 115

Mo 3705 cont. B8 20 +45°

			Curr	Magn.
27	9.4 9.350	9.3	.53	.88
			4.39	13.74
28	~~9.4~~ 9.6	9.6000	4.60	14.20
29	~~9.8~~ 9.885	9.9	4.68	14.53
30	F.	F.		F

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Saturday April 4, 1914.

Scale 2.

Series 115.

10.20 Mc 3736 Pole.

5		
6		
8		
9		
10	4.7	
11	5.4	
12	5.6	
13	6.3	
14	6.6	
15	6.8	
16	7.3	
17	7.6	
18	7.7	
19	8.3	
20	8.6	8.60 00 8.6
23	8.9	8.85 10 8.8
25	9.3	9.35 1/2 0 9.4
26	9.6	9.60 00 9.6
27	9.7	9.70 00 9.7
28	F	

See page 87

10.22

VA

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1914phae.proj.10590

Saturday April 4, 1914.

Scale U

Copied

Card. Series 115.

Mc 3134 7 D11 $21^h - 15^\circ$ -21

			Curve	Magn.
	1	3.6	.	
	2	3.6	.	
edge.	3	.		
	4	3.8	.	
	5	3.8	.	
	6	3.7	.	
	7	4.2	.	
	8	4.6	4.26	8.86
double?	9	.		
	10	4.6	4.26	8.86
	11	4.7	4.26	8.96
	12	5.4	4.28	9.68
*	13	5.7 5.1	4.28 [4.26]	9.98 [9.36]
	14	5.6	4.28	9.88
	15	6.1	4.27	10.37
	16	5.7	4.28	9.98
	17	6.4	4.28	10.68
	18	6.5	4.28	10.78
	19	6.6	4.29	10.89
	20	6.6	4.29	10.89
	21	6.6	4.29	10.89
	22	6.6	4.29	10.89
	23	7.4 7.35 01 1.3	4.30	11.66
	24	6.1 6.70 00 6.7	4.29	10.99
	25	7.4	4.30	11.70
	26	7.5	4.30	11.80

* Maybe 5.7 or 5.1 Have used for both.

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1914phae.proj.10590

Saturday April 4, 1914.

Scale K

Series 115. -21

MC 37|37 cont. D11 21 - 15

			Curve	Magn.
21	1.7		4.30	12.00
28	1.8		4.30	12.10
29	8.1		4.32	12.42
30	8.4		4.35	12.75
31	8.1		4.37	13.07
32	8.6		4.36	12.96
33	8.8		4.39	13.19
34	8.8		4.39	13.19
35	9.4	9.30 1 L 9.2	4.50	13.80
36	9.3	9.35 1 0 9.4	4.52	13.87
(39) 37	~~9.7~~	9.5 9.55 1 0 9.6	4.59	14.14
38	9.6	9.65 0 1 9.7	4.61	14.26
(37) 39	~~9.5~~	9.7 9.7000 9.7	4.62	14.32
40.	F.	F.		F

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1914phae.proj.10590

Saturday April 4, 1914.

Card.

Scale 2. Series 115

Mc 3738 C 11 21 +15 +16

		Curvi Magn.	
1	3.1	.	
2	3.6	.	
3	4.2	.	
4	4.1	.	
5	4.4	.	
6	4.3	.	
7	4.6	4.26	8.86
8	4.7	4.26	8.96
9	5.0	4.26	9.26
10	5.4	4.28	9.68
11	5.6	4.28	9.88
12	5.6	4.28	9.88
13	5.4	4.28	9.68
14	5.5	4.28	9.78
15	6.2	4.28	10.48
16	6.5	4.29	10.79
17	6.6	4.29	10.89
18	6.6	4.29	10.89
19	7.1	4.29	11.39
20	7.3	4.30	11.60
21	7.6	4.30	11.90
22	7.6	4.30	11.90
23	7.6	4.30	11.90
24	8.5 w.s.	4.30	12.00
25	8.4	4.33	12.73
26	8.5	4.34	12.84

cont (over)

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1914phae.proj.10590

Saturday April 4, 1914.

Scale 11 Series 115

Mc 3138: Cont.

			Curr.	Magn.
27	8.6		4.36	12.96
28	8.7		4.38	13.08
29	8.7		4.38	13.08
30	9.7	9.4000 9.4	4.53	13.93
31	9.4	9.50 1 1 9.6	4.57	14.07
32	9.5	9.5000 9.5	4.57	14.07
33	9.7	9.80 1 1 9.9	4.66	14.46
34	10.1	10.10 10.1	4.78	14.88
35	∫			∫ =

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Saturday April 4, 1914.

Scale 11 [illegible] Card. Series 115.

mc 3140 90 K. +17

			Curve	Magn.
1	3.9		.	
2	4.2		.	
3	4.6		4.26	8.86
4	5.1		4.26	9.36
5	6.4		4.28	10.68
6	7.5		4.30	11.80
7	7.5		4.30	11.80
8	7.7		4.31	12.01
9	7.7		4.31	12.01
10	8.6	8.501 1 8.7	4.35	12.85
11	8.6	8.6000 8.6	4.36	12.96
12	8.8	8.8501 8.9	4.40	13.25
13	9.5	9.4510 9.4	4.55	14.00
14	9.6	9.6000 9.6	4.60	14.20
15	7.	7.		F

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1914phae.proj.10590

Postponed Saturday April 4, 1914.

Card.

Scale 1

Series 115.

Mo 3741 47K. +23

			Curve	Magn.
1	4.6		4.26	8.86
2	5.6		4.28	9.88
3	6.2		4.28	10.48
4	6.4		4.28	10.68
5	7.1		4.29	11.39
6	7.4		4.30	11.70
7	7.8		4.31	12.11
8	8.3		4.33	12.63
9	8.5		4.35	12.85
10	8.6		4.36	12.96
11	9.3	9.35 1 0 9.4	4.52	13.87
12	9.4	9.40 0 0 0 9.4	4.54	13.94
13	9.7	9.70 0 0 0 9.7	4.62	14.32
14	10.0	9.85 2 1 9.7	4.68	14.53
15	10.1	10.1 0 0 0 10.1	4.78	14.88

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Saturday April 4, 1914

Scale X = 11.40

MC 3742

Lewis 115

Pole

5		
6		
8		
9		
10	4.7	
11	5.2	
12	5.4	
13	5.8	
14	6.1	
15	6.6	
16	6.7	
17	7.1	
18	7.6	
19	7.7	
20	8.1	8.20 ± 1 8.3
23	8.6	8.6000 8.6
25	9.3	9.3000 9.3
26	9.5	9.5510 9.6
27	9.8	9.8000 9.8
28	~~F~~ ~~+.5~~ 18.3	~~F~~

See page 87

11.43
W

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1914phae.proj.10590

Thursday April 9, 1914.

Scale M

Scale measures of Harvard Standard Regions. T' Plates.

9h:55 — ★ I 28616 — D5 — 9-15° — Copied.

Preceding Images. — P.C. — Alt. Cor. -0.18

	pc.1	pc.2	pc.3	Curve	Magn.	pc.2	pc.3			Curve	Magn.	Magn.
								8.45	10	.86		
1	tp.	.	.	.	.	85	87 84	~~8.55~~	~~12~~	★-1.78	6.77	6.59
2	3.1	3.9	3.9	.	.	del.	.			.		
								8.65	01	.74		
3	3.2	3.4	3.4	.	.	8.6	88 81	~~8.75~~	~~01~~	-1.68	7.07	6.91
								9.35	01	.26		
4	4.2	4.4	4.4	4.40	00	9.4	96 93	~~9.45~~	~~21~~	-1.19	8.26	8.09
								9.40	00	.23		
5	4.2	4.4	4.3	4.35	01	9.4	96 9.4	~~9.50~~	~~11~~	-1.15	8.35	8.17
								9.40	00	.23		
Elong. 6	4.4	4.6	4.4	4.50	11	4.13	9.63	9.4	96 9.4	~~9.50~~	~~11~~	-1.15	8.35	8.17
								9.60	11	.10		
7	4.6	4.8	4.6	4.70	11	4.04	8.74	9.1	99 9.5	~~9.70~~	~~22~~	-1.04	8.66	8.50
								9.60	00	.10		
8	4.4	4.6	4.8	4.70	11	4.04	8.74	9.6	98 9.6	~~9.70~~	~~11~~	-1.04	8.66	8.50
								9.90	00	.90		
9	~~4.8~~ 5.0	5.1	5.05	01	3.90	8.95	9.9	10.1	9.9	~~10.00~~	~~11~~	-0.82	9.18	9.00
10	5.5	5.7	5.6	5.65	10	3.69	9.34	n.s.	n.s.					
11	5.1	5.9	5.6	5.75	12	3.66	9.41		n.s.					
12	6.1	6.3	6.3	6.30	00	3.49	9.79							
13	6.5	6.7	6.6	6.65	10	3.41	10.06							
14	6.6	6.8	7.2	~~6.90~~ 7.00	~~22~~	3.35	10.35							
15			7.4	7.4		3.35	10.75							
16	6.9	7.1	7.4	7.25	12	3.35	10.60							
17			7.5	7.5		3.34	10.84							
18			7.6	7.50	11	7.4	3.34	10.84						
19			7.6	7.70	11	7.8	3.35	11.05						
20			8.5	8.45	10	8.4	3.45	11.90						
21			8.6	8.60	00	8.6	3.48	12.08						
22			8.6	8.60	00	8.6	3.48	12.08						
23			8.7	8.70	00	8.7	3.50	12.20						
24			8.8	8.75	01	8.7	3.51	12.26						
25	S		8.7	8.75	10	8.8	3.51	12.26						
26			9.4	9.35	01	9.3	3.67	13.02						

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1914phae.proj.10590

Thursday April 9, 1914.

Scale M. H.S. Regions.

I 28616 cont $\Delta 5$ 9-15.

	sc.2	sc.2		Curve Magn.	
27	9.5	9.5	9.50 ±0	3.72	13.22
28 defect on Image	~~9.7~~ def. w.s.			.	.
29	9.1	9.9	9.80 ±1	3.83	13.63
30	9.8?		9.8 ±	3.83	13.63 ?
31	f.			f	f
32					

Pris. Comp.

	sc.1	sc.2	Diff.	sc.2	Diff.
Polar → 5				8.4 8.40 ±0 8.4	-1.91
6				8.8 8.75 ±0 8.1	-1.64
8				9.5 9.45 ±0 9.4	-1.22
9				9.8 9.75 ±0 9.1	-0.92
10	4.9 5.1 5.20 ±1 5.3		3.82	10.0 9.95 ±0 9.9	-0.93
11	5.6 5.8 5.8000		3.75	f.	f.
12	6.4 6.6 6.55 ±0 6.5		3.31		
13	6.1 6.9 6.90 ±0 ~~6.5~~ 6.9		3.40		
14	7.5		3.15		
15	7.6		3.48		
16	8.3 8.20 ±1 8.1		3.20		
17 = Too close to another star.					
18	8.6 8.60 ±0 8.6		3.46		
19	8.1 8.70 ±0 8.1		3.72		
20	9.2 9.20 ±0 9.2		3.53		
23	9.1 9.60 ±1 9.5		3.74		
25	10.0 10.00 ±0 10.0		3.87		
26					

Images on polar Seq. not comparable with Scale.

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Thursday April 9, 1914.

Scale m. H.S. Regions

I 28616 D5 9 – 15

P.C. Alt. Corr. -0.18

	Following Images sc.1 t.p.	sc.2	sc.2	Curve.	Magn.	sc.2			Curve.	Magn.
1	t.p.					8.6	8.5	8.55 0.1	-1.79	6.76
2	3.5	3.7	3.7	.	.	8.8	8.8	8.80 0.0	-1.64	7.16
3	4.1	3.3	3.3	.	.	8.6	8.6	8.60 0.0	-1.76	6.84
4	3.8	4.0	4.2	4.10 1.1	.	8.6	9.3	8.95 9.05 4.3	-1.48 (5.4)	7.41 ~~7.57~~
5	3.8	4.0	4.3	4.15 2.1	.	9.4	9.4	9.40 0.0	-1.22	8.18
6	4.3	4.5	4.4	4.45 1.0	.	9.4	9.4	9.40 0.0	-1.22	8.18
7	4.3	4.5	4.1	4.65 1.1	4.07 (9)	(6.9) 8.72	9.1	9.1	9.70 0.0	-1.03	8.67
8	4.4	4.6	4.6	4.60 0.0	4.09	8.69	9.1	9.1	9.70 0.0	-1.03	8.67
9	4.1	4.9	5.1	5.00 1.1	3.92	8.92	nearly sup	.			
10	5.4	5.6	5.5	5.55 0.1	3.73	9.28	n.s.	.			
11	5.3	5.5	5.5	5.50 0.0	3.75	9.25					
12	6.1	6.3	6.1	6.20 1.1	3.51	9.71					
13	6.3	6.5	6.6	6.55 1.0	3.42	9.97					
14	6.5	6.7	6.7	6.70 0.0	3.40	10.10					
15	7.0	7.2	7.4	7.30 1.1	3.35	10.65					
16	6.8	7.0	7.1	7.05 0.1	3.34	10.89					
17			7.5	7.45 1.0	7.4	3.36	10.79				
18			7.4	7.30 0.1	7.3	3.35	10.70				
19			7.6	7.60 0.0	7.6	3.35	10.95				
20			8.4	8.40 0.0	8.4	3.44	11.84				
21			8.6	8.60 0.0	8.6	3.48	12.08				
22			8.6	8.60 0.0	8.6	3.48	12.08				
23			8.8	8.75 0.1	8.7	3.51	12.26				
24			8.7	8.65 1.0	8.6	3.49	12.14				
25			9.2	9.05 2.1	8.9	3.59	12.64				
26			9.4	9.35 0.1	9.3	3.67	13.02				

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Thursday April 9, 1914.

Scale m. U.S. Regions.

I 7861b δ5 cont 9-15°

	sc.			curve	Magn.
27	9.7	9.40	9.7	3.69	13.09
28	~~9.6~~	9.5	9.7	3.75	13.35
29	9.6	9.70	9.8	3.78	13.48
30	9.7	9.80	9.9	3.82	13.62
31					

10:55

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Monday April 20, 1914.

Scale U

8:50

Series 227.

MC 5172 Bole

C.C.

		mc5177	mc5180	mean	Diff.
5					
6					
8					
9		mc5177	mc5180	mean	Diff.
10	4.6	4.4	4.4	4.47 1 1 1	4.55
11	4.1	4.7	4.7	4.70 0 0 0	4.85
12	5.3	4.8	5.0	5.03 3 2 0	4.83
13	5.6	5.3	5.5	5.47 1 2 0	4.83
14	5.8	5.6	5.6	5.67 1 1 1	4.98
15	6.4	6.1	6.2	6.23 2 1 0	4.85
16	6.7 6.65 10 6.6	6.4	6.4	6.48 17 08 08	4.92
17	6.7 6.70 0 0 6.7	6.7	6.6	6.67 0 0 1	4.96
18	7.3	7.3	7.3	7.30 0 0 0	4.76
19	7.6	7.6	7.4	7.48 1 1 1	4.94
20	7.1	7.6 8	7.6	7.63 1 0 0	5.10
23	8.4	8.4	8.4	8.40 0 0 0	4.94
25	8.6 8.60 0 0 8.6	8.60	8.6	8.60 0 0 0	5.27
26	8.9 8.85 1 0 8.8	8.75	8.75	8.78 07 03 03	5.55
27	9.4 9.35 0 1 9.3	9.25	9.30	9.30 05 05 00	5.39
28	9.5 9.50 0 0 9.5	9.35	9.40	9.42 08 07 02	5.69
29	9.6 9.65 0 1 9.1	9.65	9.70	9.67 02 02 03	5.99
30	9.8 9.80 0 0 9.8	9.95	10.00	9.92 12 03 08	6.12

	mc5177	mc5180	mean	Diff.
5.6 5.55 0 1 5.5	5.40	5.40	5.45 10 05 05	1.04
6.3 6.05 3 2 5.8	5.70	5.85	5.87 18 17 02	1.24
7.4 7.40 0 0 7.4	6.80	6.90	7.03 37 23 13	1.20
7.6 7.60 0 0 7.6	7.50	7.50	7.53 07 03 03	1.30
7.6 7.60 0 0 7.6	7.65	7.60	7.62 02 03 02	1.40
8.4 8.40 0 0 8.4	8.4	8.2	8.33 07 07 13	1.22
8.5	8.4	8.5	8.47 0 1 0	1.39
8.7	8.6	8.7	8.67 0 1 0	1.63
8.7	8.7	8.7	8.70 0 0 0	1.95
9.5	9.3	9.4	9.40 1 1 0	1.68
9.6	9.6	9.7	9.63 0 0 1	1.77
n.s.	9.9	10.0	9.95 . 1 0	1.68

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Scale U

Series 227. Card.

MC 5173 26 KS -09

O.C.

		Curve	Magn.		Curve	Magn.
1	B.			5.7 5.7000 5.1	1.10	6.80
2	3.7	4.83	8.53	7.3 7.350 7.4	1.28	8.63
3	4.2	4.82	9.02	7.8 7.750 7.7	1.34	9.09
4	4.8	4.83	9.63	8.4 8.400 8.4	1.47	9.87
5	5.4	4.85	10.25	9.2 8.952 8.7	1.62	10.57
6	6.4	4.88	11.28	def.		
7	6.7	4.90	11.60	?		
8	7.4	4.95	12.35	n.s.		
9	7.6	4.98	12.58			
10	7.8	5.00	12.80			
11	8.2	5.10	13.30			
12	8.5	5.23	13.73			
13	8.6 8.550 8.5	5.25	13.80			
14	~~8.6~~ 9.1 9.1000 9.1	5.53	14.63			
15	9.1 9.150 9.2	5.58	14.73			
16	9.2 9.250 9.3	5.62	14.87			
17	9.4 9.350 9.3	5.70	15.05			
18	9.8 9.750 9.7	6.00	15.75			

O.C. poss. Not comparable with scale.

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Scale 2 Series 227 Card.

MC 5174 16 KS. (see also next page) -14

		Curve	Magn.		Curve	Magn.
1	4.4	4.82	9.22	7.5 7.55 7.6	1.31	8.86
2	4.6	4.83	9.43	7.6 7.60 7.6	1.32	8.92
3	4.7	4.83	9.53	8.4 8.40 8.4	1.47	9.87
4	4.7	4.83	9.53	8.6 8.60 8.6	1.52	10.12
5	5.6	4.85	10.45	8.7 8.75 8.8	1.57	10.32
6	6.3	4.88	11.18	10.0 10.00 a.	2.00	12.00
7	6.8	4.91	11.71			
8	6.8	4.91	11.71			
9	7.4	4.95	12.35			
10	7.7	4.99	12.69			
11	7.8	5.00	12.80			
12	8.4	5.19	13.59			
13	8.6 8.65 8.7	5.29	13.94			
14	9.3 9.25 9.2	5.61	14.86			
N	~~9.3 9.25 9.2~~	~~5.61~~	~~14.86~~	Reject; image is a p.c.		
16	9.4 9.40 9.4	5.74	15.14			
17	~~9.1 9.75 9.8~~	~~6.00~~	~~15.75~~	Reject; see remark on cover of plate		

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Monday April 20, 1914.

Scale X

Series 227. Copied

Card.

1 Mc 5174 Nora Persei. No. 2. −14 Dm 3 24 +42.5

			Curve	Magn.			Curve	Magn.
1	B.				6.1	5.90 5.1	1.12	7.02
2	3.2		-		6.4	6.30 6.2	1.16	7.46
3	4.5		4.82	9.32	~~9.6~~	7.60 7.6	1.32	8.92
4	5.6		4.85	10.45	9.4	9.40 9.4	1.76	11.16
5	6.4	c.s.	4.88	11.28	n.s.	9.90 9.9	1.96	11.86 ?
6	7.4	m.s.	4.95	12.35				
7	7.4		4.95	12.35				
8	7.9		5.02	12.92				
9	8.6		5.27	13.87				
10	8.1		5.31	14.01				
11	8.9		5.42	14.32				
12	9.1	9.15 9.2	5.58	14.73				
13	9.3	9.35 9.4	5.70	15.05				
14	9.4	9.40 9.4	5.73	15.13				
15	9.6	9.60 9.6	5.89	15.49				
16	9.7	9.70 9.7	5.95	15.65				

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Monday April 20, 1914

Scale R Series 2 27 Card.

Mc 5175 Neptune 7 40 +20.5 +17

		Curve	Magn.		Curve	Magn.
1	B.			5.35 1 0 5.3 5.4	1.09	6.44
2	3.2			6.40 00 6.4 6.4	1.16	7.56
3	4.4	4.82	9.22	7.70 00 7.7 7.7	1.33	9.03
4	4.1	4.83	9.53	8.40 00 8.4 8.4	1.47	9.87
5	5.6	4.85	10.45	9.20 1 1 9.3 9.1	1.69 5.60	0 9 14.80
6	6.6	4.89	11.49			
7	7.5	4.97	12.47			
8	7.7	4.99	12.69			
9	8.6	5.27	13.87			
10	8.8 8.75 0 1 8.7	5.34	14.09			
11	8.7 8.70 00 8.7	5.31	14.01			
12	9.2 9.25 0 1 9.3	5.62	14.87			
13	9.4 9.40 00 9.4	5.74	15.14			
14	9.5 9.45 1 0 9.4	5.76	15.21			
15	9.6 9.55 0 1 9.5	5.85	15.40			

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Monday April 20, 1914.

Scale R

Series 22 Pole

	rmc 5177	P.C.
5		5.4 5.40 5.4
6		5.1 5.70 5.1
8		6.8 6.80 6.8
9		7.5 7.50 7.5
10	4.4	7.6 7.65 7.7
11	4.1	8.4
12	4.8	8.4
13	5.3	8.6
14	5.6	8.1
15	6.1	9.3
16	6.4	9.6
17	6.7	9.9
18	7.3	
19	7.4	
20	7.6	
23	8.4	
25	8.6 8.60 8.6	
26	8.1 8.75 8.8	
27	9.2 9.25 9.3	
28	9.3 9.35 9.4	
29	9.7 9.65 9.6	
30	10.0 9.95 9.9	

See page 104

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Scale U Series 227. Card.

MC5178 C5 9+15. +16

		Curve	Magn.	P.C.	Curve	Magn.
1	3.0	.		5.6 5.6000 5.6	1.10	6.70
2	3.4	4.83	8.23	6.4 6.4500 6.5	1.17	7.62
3	3.5	4.83	8.33	6.4 6.5000 6.6	1.18	7.68
4	3.6	4.83	8.43	6.6 6.5500 6.5	1.18	7.73
4a	3.7	4.83	8.53	6.7 7.0534 7.4	1.24	8.29
5	3.8	4.83	8.63	7.3	1.27	8.57
6	3.9	4.83	8.73	7.6	1.32	8.92
7	3.8	4.83	8.63	7.5	1.30	8.80
8	4.5	4.83	9.33	7.7	1.33	9.03
9	4.4	4.83	9.23	8.2	1.43	9.63
10	4.7	4.83	9.53	8.4	1.47	9.87
11	4.6	4.83	9.43	8.4	1.47	9.87
12	5.1	4.83	9.93	8.6	1.53	10.13
13	5.4	4.84	10.24	8.7	1.55	10.25
14	5.4	4.84	10.24	8.7	1.55	10.25
14a	5.6	4.85	10.45	9.1	1.66	10.76
15	5.6	4.85	10.45	9.5	1.80	11.30
16	5.9	4.86	10.76	9.5	1.80	11.30
17	6.4	4.88	11.28			
18	6.6	4.90	11.50			
19	6.7	4.90	11.60			
20	6.7	4.90	11.60			
20a	7.3	4.95	12.25			
21	7.3	4.95	12.25			
22	7.6	4.98	12.58			
23	7.7	4.99	12.69			

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Monday April 20, 1914.

Scale U Series 27.

Mc 5148 C5 9+15 cont.

			Curve	Magn.
24	8.3		5.15	13.45
25	8.6		5.27	13.87
26	8.6	8.6000 8.6	5.27	13.87
27	8.6	8.6501 8.1	5.29	13.94
28	9.1	9.1510 9.2	5.57	14.72
29	9.4	9.4000 9.4	5.74	14.14
30	9.8	9.8501 9.9	6.05	15.90
31	9.8	9.8501 9.9	6.05	15.90
32				

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Monday. April 20, 1914.

Scale U Series 227 Card.

Mc 5179. Dm 9 ° +55° +21

		B.	Curve	Magn.	P.C.	Curve	Magn.
	01				4.7 4.65 10 4.6	1.03	5.68
	02	6.4	4.83	8.23	6.4 6.40 00 6.4	1.16	7.56
1 =	03	7.0	4.83	8.83	7.2 7.35 10 7.4	1.28	8.63
2 =	04	7.6	4.83	9.43	7.8 7.80 00 7.8	1.35	9.15
3 =	05	8.0	4.84	9.84	8.6 8.65 01 8.7	1.53	10.18
6 =	06	8.4	4.88	11.28	9.6 9.60 00 9.6	1.83	11.43
8 =	07	9.4	4.95	12.35	n.s.		
10 =	08	9.7	4.99	12.69			
	09	9.4	5.19	13.59			
	010	8.6	5.26	13.86			
	011	8.8 8.80 00 8.8	5.36	14.16			
	012	8.9 8.85 10 8.8	5.39	14.24			
20 =	013	9.4 9.45 01 9.5	5.77	15.22			
	014	9.5 9.50 00 9.5	5.80	15.30			
	015	9.7 9.70 00 9.7	5.95	15.65			

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Monday April 20, 1914 -

Scale 2 Series 2.27

	Mo 5180	Pole	P.C.
5			5.4 5.40 5.4
6			5.8 5.85 5.9
8			6.9 6.90 6.9
9			7.5 7.50 7.5
10	4.4		7.6 7.60 7.6
11	4.7		8.2
12	5.0		8.5
13	5.5		8.7
14	5.6		8.7
15	6.2		9.4
16	6.4		9.7
17	6.6		10.0
18	7.3		
19	7.4		
20	7.6		
23	8.4		
25	8.6		
26	8.8	8.75	8.7
27	9.3	9.30	9.3
28	9.4	9.40	9.4
29	9.7	9.70	9.7
30	10.0	10.00	10.0

See page 104

See also next page

11:10

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Leipsic Monday April 20, 1914

Scale U

~~MC~~ 1 Series 227 Card

MC 5176 Praesepe. +18 (measured out of order by mistake.)

marked on print from D 1573 7.

		20K Curve	Magn.	P.C. Curve	Magn.
a	B.				
b	B.				
d	B.				
g	B.				
h^2	B				
h^3	3.4	4.83	8.23	6.5	7.67
h^4	3.6	4.83	8.43	6.5	7.67
h^5	3.9	4.83	8.73	7.4	8.68
k^2	4.6	4.83	9.43	8.2	9.63
k^3	3.4	4.83	8.23 R Reject. Probably mistaken for Unit.	7.7	9.04
n'	4.7	4.83	9.53	8.3	9.75
n^2	4.7	4.83	9.53	8.6	10.12
o	4.7	4.83	9.53	8.5	10.00
r	5.1	4.84	9.94	8.5	10.00
s	5.7	4.85	10.55	9.4	11.16
t	6.2	4.87	11.07	9.5	11.30
u	6.3	4.88	11.18	9.7	11.57
w	6.3	4.88	11.18	9.4	11.16
Z	6.6	4.89	11.49	9.7	11.57
α	7.1	4.92	12.02	t.	F
β	7.6	4.98	12.58		
γ	7.7	4.99	12.69		
δ	8.4	5.18	13.58		
ε	8.4	5.18	13.58		
ζ	8.6	5.26	13.86		
η	8.8 8.8	5.36	14.16		

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Monday April 20, 1914.

Scale U

Series 27.

Mc 5176 Praesepe. cont.

P.C.

				Curve	Magn.		Curve	Magn.
θ	9.1	9.15 ± 0	9.2	5.58	14.73			
λ	9.3	9.35 ± 0	9.4	5.70	15.05			
μ	9.1	9.20 ± 0	9.7	5.95	15.65			
ν	9.4	9.50 ± 1	9.6	5.80	15.30			
x	B.						6.2	1.14 7.34
y	B						5.3	1.08 6.38

See also next page.

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Monday April 20, 1914.

Scale U. Leonis Series 227 Card.

MC 5176 +18 δ Cancri. marked from I 30151.

		Curve	Magn.		Curve	Magn.
a	3.5	4.83	8.33	5.9 5.90 00 5.9	1.11	7.01
a'	B.			5.4 5.45 00 5.5	1.09	6.54
b	3.1	.		6.3 6.30 00 6.3	1.15	7.45
c	33	.		6.4 6.40 00 6.4	1.16	7.56
c'	3.5	4.83	8.33	6.4 6.40 00 6.4	1.16	7.56
d	3.6	4.83	8.43	6.7	1.19	7.89
e	4.4	4.83	9.23	7.8	1.35	9.15
e'	4.5	4.83	9.33	7.9	1.36	9.26
f	4.6	4.83	9.43	7.8	1.35	9.15
g	4.7	4.83	9.53	8.6	1.53	10.13
h	5.6	4.85	10.45	9.4	1.76	11.16
k	no K.					
l	6.3	4.88	11.18			
m	6.4	4.88	11.28			
n	7.1	4.92	12.02			
q	7.1	4.92	12.02			
r	7.4	4.95	12.35			
s	7.1	4.99	12.69			
t	8.4	5.19	13.59			
x	8.1	5.31	14.01			
z	9.2	5.59	14.79			
f'	5.0	4.84	9.84	8.7	1.55	10.25

Ist plates not needed. H.S.L.

12:

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Tuesday April 21, 1914.

Scale M N. S. Regions. D3 5-15

10:50 I 36565 Copied.

Att. Cor. -0.18

		sc.1	sc.2	Diff.	P.C.	sc.2	Diff.
Polar Seq.	5				7.40 00 1.4	7.4	-0.91
	6				8.05 21 8.2	7.9	-0.94
	8				8.70 00 8.1	8.1	-0.47
	9				9.25 01 9.2	9.3	-0.42
	10	4.3	4.5 450 00	4.52	9.35 01 9.4	9.3	-0.33
	11	4.5	4.7 470 00	4.85	9.70 00 9.7	9.7	-0.15
	12	4.6	4.8 5.10 3 3	4.76	n.s.		
	13	5.4	5.6 5.60 00	4.70			
	14	5.6	5.8 5.85 01	4.80			
	15	5.6	5.8 6.10 3 3	4.98			
	16	6.4	6.6 6.60 00	4.80			
	17	6.6	6.8 7.00 2 2	4.63			
	18		7.40 00 1.4	4.66			
	19		7.65 01 7.6	4.77			
	20		8.40 00 8.4	4.33			
	23		8.75 01 8.8	4.59			
	25		9.40 00 9.4	4.47			
	26		9.70 00 9.7	4.63			
	27		+				

Stan. Seq.	#		Curve	Magn.
	1	B.		
	2	2.3 2.5	7.6 7.5 7.55 01a	-0.94 6.61
	3	2.0 2.2	7.4 7.5 7.45 01	-0.98 6.47
	4	2.6 2.8	7.5 7.6 7.55 10	-0.94 6.61
	5	2.6 2.8	7.8 7.8 7.80 00	-0.87 6.93
	6	2.6 2.8	8.3 8.3 8.30 00	-0.72 7.58
			8.2 7.8 8.00 22	-0.81 7.19

H.L.B.

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Tuesday April 21, 1914.

Scale m. H.S. Regions.

I 36565 D 3 5-15°

	pc.1	pc.2	pc.1	Curve	Magn.	sc. sup.	P.C. sup.			Curve	Magn. R
							Alt Corr -0.18				
7	2.1 2.9	2.90	2.7 2.9	.	.						
8	2.1 2.9	2.85	2.6 2.8	.	.	8.6	8.4	8.50	1 1	-0.64	7.86
9	3.4 3.6	3.45	3.1 8.3	.	.	8.1	8.1	8.70	0 0	-0.57	8.13
10	3.6 8.8	8.80	3.6 8.8	.	.	9.2	8.1	~~8.95~~	2 3	-0.48	8.47
11	3.5 8.7	8.65	3.4 8.6	.	.	9.20	9.3	9.25	0 1	-0.~~85~~	8.90
12	3.1 3.4	4.4	4.15 2 2	.	.	9.6	9.5	9.55	0 1	-0.23	9.32
13	3.1 8.9	4.4	4.15 2 2	.	.	9.5	9.6	9.55	1 0	-0.23	9.32
14	4.8 5.0	5.4	5.20 2 2	H.71	9.91	9.5 10.0	t	10.0	a f	-0.04	9.96 R
15	4.7 4.9	5.3	5.10 2 2	H.71	9.81	def.	n.s.	.			
16	4.8 5.0	5.4	5.20 2 2	H.71	9.91	9.7 poor.		9.7		-0.17	9.53 2 qf F
17	4.8 5.0	5.6	5.80 3 3	H.72	10.02	F					
18	5.1 5.7	5.9	5.90 0 0	H.73	10.64						
19	5.1 5.7	5.1	5.80 1 1	H.73	10.53						
20	6.3 6.5	6.5 6.4	6.47 0 0 1	H.72	11.19						
21	6.3 6.5	6.6	6.55 1 0	H.72	11.27						
22	6.6 6.8	6.7	6.75 0 1	H.71	11.46						
23		7.4 7.3	7.35 0 1	H.68	12.03						
24		7.6 *~~8.5~~	~~7.55 0 1~~ ~~8.05~~	H.68	~~12.68~~ 12.22						
25		8.4 8.6	8.50 1 1	H.60	13.10						
26		8.4 8.4	8.40 0 0	H.60	13.00						
27		8.5 8.5	8.50 0 0	H.60	13.10						
28		8.3 8.5	8.40 1 1	H.60	13.00						
29		9.3 9.3	9.30 0 0	H.57	13.87						
30		9.4 9.4	9.40 0 0	H.57	13.97						
31		t.f. def?		.	R						
32		t t		.	F						

* Remeas. July 3, 1914 7.6
Evidently error of unit above

11:40.

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Thursday April 23, 1914

Scale m. U.S. Regions

10 : 05 I 33923 D 5 9-15. Alt. Corr. -0.18 Copied

	pcl.1	pcl.2		Curve	Magn.	D.C.			Curve.	Magn.
1	t.p.					8.3	8.2	8.25 1 0	-1.71	6.54
2	3.6 3.8			3.8	. .	8.8	8.8	8.80 0 0	-1.40	7.40
3	3.7 3.9			3.9	. .	susp.	susp.	.	.	R
4	4.5 4.7		along.	4.7	3.66 8.36	9.1	9.1	9.10 0 0	-1.19	7.91
5	4.3 4.6	4.7	poor	4.6 0 1	. .	9.4	9.3	9.35 0 1	-0.99	8.36
6	4.6 4.8	5.2		5.00 2 2	3.63 8.63	9.7	9.7	9.70 0 0	-0.65	9.05
7	4.6 4.8	5.3		5.25 2 3	3.62 8.67	9.6	9.5	9.55 0 1	-0.82	8.73
8	4.8 5.0	5.2		5.10 1 1	3.62 8.72	9.7	9.7	9.70 0 0	-0.65	9.05
9	5.4 5.6	5.5		5.55 0 1	3.56 9.11	9.9	9.9	9.90 0 0	-0.39	9 8.51
10	5.7 5.9	6.2		6.05 1 2	3.50 9.55	10.0?	10.0?	10.00 0 0	-0.25	9.75?
11	6.4 6.6	6.4		6.50 1 1	3.48 9.98					
12	6.2 6.4	6.5		6.45 0 1	3.48 9.93					
13	6.4 6.6	6.4		6.50 1 1	3.48 9.98					
14	6.4 6.6	6.6		6.60 0 0	3.47 10.07					
15	6.6 6.8	6.9		6.85 0 1	3.46 10.31					
16	6.6 6.8	6.8		6.80 0 0	3.46 10.26					
17	7.0 7.2	7.4		7.30 1 1	3.49 10.79					
18		7.2	7.3	7.25 0 1	3.48 10.73					
A		7.6	7.5	7.55 0 1	3.51 11.06					
20		8.2	8.4	8.30 1 1	3.66 11.96					
21		8.4	8.4	8.40 0 0	3.68 12.08					
22		8.5	8.6	8.55 1 0	3.72 12.27					
23		8.7	8.7	8.70 0 0	3.77 12.47					
24 partly sup.			8.5?	8.58 A	3.71 12.21?					
25		8.6	8.7	8.65 0 1	3.75 12.40					
26		9.2	9.1	9.15 0 1	3.90 13.05					
27		9.4	9.2	9.30 1 1	3.96 13.26					

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Thursday April 23, 1914.

Scale m. H. S. Regions.

I 33923 cont. Prec. Eqs.

	Sc 1	Sc 2		Curve	Magn.
28	9.1	9.0	9.05 1.0	3.87	12.92
29	9.6	9.6	9.60 0.0	4.09	13.69
30	9.1	9.6	9.65 1.0	4.10	13.75
31	9.6	9.6	9.60 0.0	4.09	13.69
32	9.8	9.7	9.75 0.1	4.13	13.88
33	10.0	9.9	9.95 0.1	.	.
Polar	b?	8.5		3.71	12.21

	Sc 1	Sc 2	Sc 2	Diff.
5				8.3 8.20 1.1 8.1 −1.71
6				8.5 8.55 1.0 8.6 −1.44
8				9.4 9.40 0.0 9.4 −1.17
9				9.6 9.60 0.0 9.6 −0.77
10	5.4	5.6	5.65 6.0 0.0	3.42
11	5.6	5.8	5.75 0.1 5.1	3.80
12	6.4	6.6	6.55 0.1 6.5	3.31
13	6.7	6.8	6.80 0.0 6.8	3.50
14		7.4	7.40 0.0 7.4	3.25
15		7.7	7.65 1.0 7.6	3.43
16		7.7	7.70 0.0 7.7	3.70
17		8.4	8.35 0.1 8.3	3.28
18		8.4	8.40 0.0 8.4	3.66
19		8.6	8.60 0.0 8.6	3.82
20		~~9.1~~ 8.7	8.70 0.0 8.1	4.03
23		9.4	9.40 0.0 9.4	3.94
25		9.8	9.75 0.1 9.7	4.12
26				

9.9 W.S. 9.6 9.60 0.0 9.6 −0.58

9.9 9.85 1.0 9.8 −0.30

10.0? −0.14

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Thursday April 23, 1914.

Scale m. H. S. Regions.

± 339 2 3 cont. Following Eyp.

O.C. Alt. Cor. -0.18

	sc. 1	sc. 2		Curve	Magn.	sc. 2			Curve	Magn.
1	t.p.	.			q	8.4	8.4	8.40 0 0	-1.62	6.78
2	3.8 4.0	.	4.0	.	.	8.7	8.7	8.70 0 0	-1.46	7.24
3	3.6 3.8	.	3.8	.	.	8.6	8.7	8.65 0 1	-1.50	7.15
4	t.p.	.	.	.	q	8.9	9.1	9.00 ± 1	-1.27	7.73
5	t.p.	.	.	.	q	9.4	9.4	9.40 0 0	-0.94	8.46
6	4.4 4.6	4.9	4.75 ± 1	3.66	8.41	9.6	9.6	9.60 0 0	-0.75	8.85
7	4.5 4.7	4.9	4.80 ± 1	3.66	8.46	9.6	9.6	9.60 0 0	-0.75	8.85
8	4.7 4.9	5.2	5.05 ± 2	3.63	8.68	9.5	9.4	9.45 1 0	-0.91	8.54
9	5.3 5.5	5.5	5.50 0 0	3.57	9.07	9.9	10.0	9.95 ± 0	-0.31	9.64
10	5.7 5.9	5.9	5.90 0 0	3.52	9.42	9.9	9.9	9.90 0 0	-0.140	9.50
11	6.4 6.6	6.5	6.55 ± 0	3.48	10.03	n.s.				
12	5.8 6.0	6.4	6.20 ± 2	3.50	9.70					
13	6.3	6.4	6.45 1 0	3.48	9.93					
14	6.4 6.6	6.6	6.60 0 0	3.47	10.07					
15	6.7 6.9	6.8	6.85 1 0	3.46	10.31					
16	6.6 6.8	6.8	6.80 0 0	3.46	10.26					
17		7.4	7.40 0 0 7.4	3.50	10.90					
18		7.3	7.85 ± 0 7.4	3.49	10.84					
19		7.6	7.60 0 0 7.6	3.51	11.11					
20		8.3	8.20 ± 1 8.1	3.63	11.83					
21		8.3	8.25 ± 0 8.2	3.64	11.89					
22		8.4	8.40 0 0 8.4	3.68	12.08					
23		8.6	8.55 ± 1 8.5	3.72	12.27					
24		8.4	8.50 ± 1 8.6	3.71	12.21					
25		8.6	8.60 0 0 8.6	3.73	12.33					
26		8.9	8.90 0 0 8.9	3.83	12.73					

cont.

						St. stars cont.			Curve	Magn.
						27	8.8	9.2 9.00 ± 2	3.86	12.86
						28	9.1	9.2 9.15 ± 0	3.90	13.05
						29	9.2	9.6 9.40 ± 2	4.00	13.40
						30	9.7	9.6 9.65 1 0	4.11	13.76
						31	9.6	9.7 9.65 0 1	4.11	13.76
						32	sup.	9.7 . ±	4.13	13.83
						33	9.9?	9.9 9.90 0 0	.	.
						34	?			

11:16

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Thursday, April 23, 1914.

Scale M

11:20

H. S. Regions

I 34360 A 3

5-15. Copied.

P.C. Alt. Cor. -0.18

	sc.1	sc.2		Curve	Magn.	sc.2			Curve	Magn.
1	3.5 3.7	3.7		.	.	8.5	8.2	8.35 1 2	-2.16	6.19
2	3.2 3.4	3.4		.	.	8.2	8.3	8.25 0 1	-2.12	6.13
3	3.4 3.6	3.6		.	.	8.2	8.4	8.30 1 1	-2.14	6.16
4	3.6 3.8	3.8	B	3.8	B	8.4	8.5	8.45 0 1	-2.19	6.26
5	3.7 3.9	4.3	H.10	2 2	. .	8.7	8.6	8.65 1 0	-2.24	6.41
6	3.7 3.9	B.	3.9	B	. .	8.7	8.7	8.70 0 0	-2.27	6.43
7	4.2 4.4	4.3	H.35	0 1	. .	8.9	9.2	9.05 1 2	-2.37	6.68
8	3.7 3.9	4.4	~~3.95~~ H.15	1 0 3 2	. .	8.8	8.8	8.80 0 0	-2.30	6.50
9	3.9 H.1	4.7	H.40	3 3	. .	9.5	9.4	9.45 1 0	-2.50	6.95
10	4.6 H.8	5.2	5.00	2 2	. .	9.6	9.6	9.60 0 0	-2.56	7.04
11	4.5 ~~4.9~~	4.8	H.75	1 0	. .	9.7	9.7	9.70 0 0	-2.59	7.11
12	4.8 5.0	w.s. ~~4.5~~	5.3	5.15	2 1	9.7	9.7	9.70 0 0	-2.59	7.11
13	5.4 5.6	5.6	5.60	0 0	. .	10.0	9.9	9.95 0 1	-2.66	7.29
14	5.8 6.0	6.3	6.15	2 1	. .					
15	5.8 6.0	6.3	6.15	2 1	. .					
16	6.3 6.5	6.4	6.45	1 0	. .					
17	6.6 6.8	6.7	6.75	0 1	1.96	8.66 7 1				
18	6.7 6.9	6.8	6.85	1 0	1.99	8.84 8				
19	6.7 6.9	6.9	6.90	0 0	2.00	8.90				
20		7.5	7.40	0 0 1 1	7.3	2.15	9.55			
21		7.6	7.60	0 0	7.6	2.20	9.80			
22		7.7	7.75	1 0	7.8	2.25	10.00			
23		7.8	7.95	2 1	8.1	2.30	10.25			
24		8.4	8.35	0 1	8.3	~~2.50~~ 2.42	10.77			
25		8.7	8.65	1 0	~~8.7~~ 8.6 w.s.	2.50	11.15			
26		8.7	8.70	0 0	8.7	2.51	11.21			

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Thursday April 23, 1914.

Scale M. H.S. Regions

I 34 B60 cont

D 3 5h-15

P.C.

	sc 2	sc 1	Curve	Magn.
27	9.3	9.25 1.0 9.2	2.67	11.92
28	9.2	9.30 1.1 9.4	2.70	12.00
29	9.4	9.45 0.1 9.5	2.74	12.19
30	9.6	9.6 9.60 0.0	2.79	12.39
31	9.7	9.1 9.70 0.0	2.83	12.53
32	10.0	10.0 10.000 0.0	2.92	12.92

Polar

	sc 1	sc 2	Diff.	
5			8.8000	P.C. Ft. on Polar Eq's.
			8.8 8.8	- 2.31
6			9.7000	
			9.1 9.1	-2.59
8			±	

			Diff.	
9		6.9 7.05 ± 2		m.s.
10	6.7	7.2	1.97	
11	7.4	7.400 7.4	2.15	
12	7.6	7.6501 7.7	2.21	
13	7.7	7.75 ± 0 7.8	2.55	
14	8.2	8.2501 8.3	2.40	
15	8.6	8.600 8.6	2.48	
16	8.7	8.75 ± 0 8.8	2.65	
17	8.7	8.953 9.2	2.68	
18	9.3	9.300 9.3	2.76	
19	9.7	9.700 9.7	2.72	
20	9.9	9.86 10 9.8	2.88	
23	±	±		
25				

14.55

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Tuesday May 5, 1914 -

Scale U

Series 240.

10.01

MC 5328

			MC 5333	MC 5339	Mean	Diff.	P.C.	MC 5333				Diff.
5							4.8 4.8000 4.8	5.50	5.65	5.32	52 8 18 33	1.17
6							5.6 5.5501 5.5	6.30	6.35	6.07	52 23 28	1.04
8							6.6 6.6000 6.6	6.90	7.40	6.97	37 07 43	1.26
9							7.4 7.4000 7.4	7.40	def.	7.40	00 00 .	1.43
10	3.8		4.3	4.7	4.27	4.75	7.6 7.5501 7.5	7.60	7.60	7.58	03 02 02	1.44
11	4.4		4.6	4.8 5.1	4.60	4.95	7.9	7.8	8.40	8.03	1 2 4	1.52
12	4.6		4.8	5.1 5.5	4.83	5.03	8.3	8.3	8.4	8.33	0 0 1	1.53
13	4.8		5.5	5.5	5.27	5.22	8.6	8.6	8.7	8.63	0 0 1	1.67
14	5.6		5.7	5.9	5.73	4.92	8.9	Def.	9.2	9.05	1 . 2	1.60
15	5.7		6.1	6.4	6.07	5.01	9.4	9.2	9.2	9.27	1 1 1	1.81
16	5.8		6.4	6.6	6.27	5.13	9.5	9.4	9.5	9.47	0 1 0	1.93
17	6.3		6.5	6.8	6.53	5.10		7	9.8	9.80	. . a	1.83
18	6.7		7.1	7.3	7.03	5.03						
19	7.2		7.5	7.6	7.43	4.99						
20	7.4		7.6	7.6	7.53	5.20						
23	7.8		7.8	8.4	8.00	5.34						
25	8.3		8.6	8.6	8.50	5.37						
26	8.7	8.7000 8.7	8.70	8.7	8.70	5.63						
27	8.9	8.9000 8.9	8.95	9.3	9.03	5.64						
28	9.4	9.4000 9.4	9.35	9.4	9.38	5.73						
29	9.6	9.6000 9.6	9.60	9.65	9.62	6.04						
30	9.8	9.8000 9.8	9.80	def.	9.80	6.24						

10.10

W

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Tuesday May 5, 1914

Scale 2

Series 24.

Card.

Mc 5329 +24 Gal. Orle. 12 40 +28 0

P.C.

		Curve	Magn.	pc. 2		Curve	Magn.
1	4.35	4.89	8.39	6.6	6.650 6.7	1.21	7.86
2	4.2	4.92	9.12	7.6	7.600 7.6	1.37	8.97
3	5.1	4.97	10.07	8.6	8.650 8.7	1.61	10.26
4	6.1	5.02	11.12	9.4	9.400 9.4	1.80	11.20
5	6.5	5.06	11.56	9.8	9.750 9.7	1.88	11.63
6	7.3	5.16	12.46				
7	7.5	5.19	12.69				
8	7.6	5.21	12.81				
9	7.9 8.001 8.1	5.30	13.30				
10	8.6	5.49	14.09				
11	8.6 8.570 8.6	5.48	14.05				
12	8.7 8.7000 8.7	5.52	14.22				
13	9.3 9.2510 9.2	5.78	15.03				
14	9.4 9.4000 9.4	5.86	15.26				
15	9.7 9.7000 9.7	6.12	15.82				

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1914phae.proj.10590

Tuesday May 5, 1914.

Scale U

Series 240

Card,

Mc 5330

11h 59m - 5° -01

		Curve	Magn.	P.e.	Curve	Magn.
1	⊙.			5.7 5.6510 5.6	1.08	6.73
2	3.6	4.89	8.49	6.6 6.6000 6.6	1.20	7.80
3	4.3	4.92	9.22	7.6 7.6000 7.6	1.38	8.98
4	5.6	5.01	10.61	9.2 9.2000 9.2	1.75	10.95
5	7.2	5.17 4	12.37 4	n.s.	n.s.	
6	6.4	5.05	11.45	9.7?	1.87	11.57?
7	6.9	5.09	11.99	n.s.		
8	7.5	5.19	12.69			
9	7.6	5.21	12.81			
10	8.3	5.39	13.69			
11	8.6 8.6000 8.6	5.49	14.09			
12	8.7 8.7000 8.7	5.52	14.22			
13	9.4 9.2521 9.1	5.79	15.04			
14	9.4 9.4000 9.4	5.87	15.27			
15	9.7 9.6510 9.6	6.06	15.71			

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1914phae.proj.10590

Tuesday May 5, 1914.

Scale N Series 24. Card

MC 8-331 +02 12h 10m -7.5°

		Curve	Magn.		Curve	Magn.
1	3.5	4.89	8.39	6.4 6.40 00 6.4	1 1.27	5 7.47
2	4.5	4.93	9.43	7.6 7.60 00 7.6	38 1.22	98 8.80
3	5.4	4.99	10.39	8.5 8.45 10 8.4	5 1.34	9 9.79
4	6.1	5.03	11.13	9.1 9.65 10 9.6	86 1.61	51 11.26
5	6.6	5.07	11.67	10.0 9.90 11 9.8	1.92	11.82
6	7.3	5.15	12.45			
7	7.5	5.19	12.69			
8	7.8	5.25	13.05			
9	8.4	5.42	13.82			
10	8.5	5.45	13.96			
11	8.6 8.60 00 8.6	5.49	14.09			
12	8.7 8.75 10 8.8	5.54	14.29			
13	8.8 8.85 01 8.9	5.57	14.42			
14	9.3 9.25 10 9.2	5.78	15.03			
15	9.6 9.60 00 9.6	6.01	15.61			

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Tuesday May 5, 1914.

Scale Series 240. Card.

Mc 5332 12 30 -7.5 -04

	B	Curve	Magn.	P.C.		Curve	Magn.
1	~~5.5~~			5.5	5.4	1.05	6.50
2	3.7	4.90	8.60	6.6	6.7	1.21	7.86
3	4.1	4.95	9.65	8.4	8.3	1.53	9.88
4	5.8	5.02	10.82	def.			
5	6.3	5.05	11.35	(t.p.)			
6	6.8	5.09	11.89				
7	6.8	5.09	11.89				
8	7.2	5.14	12.34				
9	7.6	5.21	12.81				
10	7.6	5.21	12.81				
11	8.4	8.5	5.43	13.88			
12	8.8	8.7	5.54	14.29			
13	9.1	8.9	5.65	14.65			
14	9.4	9.4	5.87	15.27			
15	9.5	9.6	5.96	15.51			

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Tuesday May 5, 1914.

Scale Series 240.

Mc 5333 +n Pole.

			Q.C.
5			5.5 5.50 00 5.5
6			6.4 6.30 ± 6.2
8		xx.1	6.9 6.90 00 6.9
9			7.4 7.4000 7.4
10	4.3		7.6 7.6000 7.6
11	4.6		7.8
12	4.8		8.3
13	5.5		8.6
14	5.1		D.
15	6.1		9.2
16	6.4		9.4
17	6.5		H
18	7.1		
19	7.5		
20	7.6		
23	7.8		
25	8.6		
26	8.7	8.7000 8.7	
27	9.1	8.95 ± 8.8	
28	9.4	9.350 ± 9.3	
29	9.6	9.600 00 9.6	
30	9.8	9.800 00 9.8	

See page 124

Y.S.

11:

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1914phae.proj.10590

Tuesday May 5, 1914.

Scale Series 340. Card.

Mc 5335 81 K. +16

		Curve	Magn.			Curve	Magn.
1	B.			5.5 5.5000 5.5		1.06	6.56
2	3.6	4.89	8.49	6.6 6.6000 6.6		1.20	7.80
3	4.1	4.95	9.65	def. def.			
4	5.6	5.00	10.60	8.6 8.6501 8.7		1.61	10.26
5	6.1	5.03	11.13	9.4 9.3011 9.2		1.77	11.07
6	5.8	5.01	10.81	8.8? 1		1.65	10.45
7	6.4	5.05	11.45	9.4		1.80	11.20
8	6.6	5.06	11.66	9.7		1.87	11.57
9	6.5	5.05	11.55	9.4		1.80	11.20
10	6.8	5.09	11.89	9.8		1.90	11.70
11	6.6	5.06	11.66	9.7		1.87	11.57
12	7.3	5.16	12.46				
13	7.6	5.21	12.81				
14	7.1	5.23	12.93				
15	8.5 8.5000 8.5		5.45	13.95			
16	8.7 8.6510 8.6		5.51	14.16			
17	8.7 8.6510 8.6		5.51	14.16			
18	9.5 9.5000 9.5		5.93	15.43			
19	9.7 9.6510 9.6		6.07 4	15.72 69			

P.C. poor, not comp. with scale.

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1914phae.proj.10590

Tuesday, May 5, 1914.

Scale U

Series 240.

Card

MC 5336

M3. +22 13 40 +30°

Copied from P. 191

P. 191

		Curve	Magn.		Mean.		Curve	Magn.		Mean.	
1	3.8	4.90	8.70	8.90	8.80	10 10	7.4 7.40 00 7.4	1.34	8.74	8.85	8.80 06 05
2	5.4	4.99	10.39	10.29	10.34	05 05	8.3 8.25 10 8.2	1.51	9.76	9.76	9.76 00 00
3	5.5	5.00	10.50	10.50	10.50	00 00	8.6 8.65 01 8.7	1.61	10.26	10.26	10.26 00 00
4	5.6	5.00	10.60	10.60	10.60	00 00	8.7 8.70 00 8.7	1.63	10.33	10.26	10.30 03 04
5	6.0	5.03	11.03	11.14	11.08	05 06	9.4 9.35 01 9.3	1.79	11.14	11.07	1110 04 03
6	7.3	5.16	12.46	12.11	12.28	18 17	10.0?	1.95	11.95	·	11.95? ?
7	7.6	5.21	12.81	12.80	12.80	01 00					
8	7.7	5.23	12.93	13.06	13.00	01 06					
9	8.3	5.38	13.68	13.81	13.74	06 07					
10	8.5	5.45	13.95	14.09	14.02	01 07					
11	8.8 8.75 01 8.7	5.53	14.28	14.29	14.28	00 01					
12	9.2 9.25 01 9.3	5.78	15.03	15.11	15.07	04 04					
13	9.5 9.50 00 9.5	5.93	15.43	15.86	15.64	21 22					
14	9.8 9.70 11 9.6	6.09 6.12	15.79	15.68	15.74	05 06					
15	9.9 9.85 10 9.8	6.19	16.04	15.95	16.00	04 05					

Magn. of stars of N.a. 94

α	3.7	4.90	8.60	8.70	8.65	05 05	7.3	1.31	8.61	8.73	8.67 06 06
β	5.6	5.00	10.60	10.40	10.50	10 10	8.7	1.63	10.33	10.33	10.33 00 00
γ	5.6	5.00	10.60	10.60	10.60	00 00	8.7	1.63	10.33	10.44	10.38 05 06
δ	6.6	5.07	11.67	11.67	11.67	00 00	9.9	1.92	11.82	11.95?	11.88 06 07
ε	7.7	5.23	12.93	12.93	12.93	00 00					
ζ	7.4	5.17	12.57	12.46	12.52	05 06					
η	8.3	5.39	13.69	13.82	13.76	07 06					
a	n.s.	·		13.49	13.49	· ·					
b	8.3?	5.39	13.69	13.30	13.50	19 20					
c				13.87							
d				13.87							

n.s.

e	14.10	h	15.69
f	14.50	m	15.53
g	15.11	n	15.87
h	15.27	o	16.04
k	15.53		

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1914phae.proj.10590

Tuesday, May 5, 1914.

Scale 4 Series 240. Card.

Mc 5337

13 51 -20.0 -33

P.C.

			Curve	Magn.			Curve	Magn.
1	3.9		4.90	8.20	7.1	7.2 (7.150)	1.28	8.43
2	4.4		4.93	9.33	7.7	7.5 (7.600)	1.38	8.98
3	5.1		5.01	10.71	9.4	9.4 (9.400)	1.79	11.19
4	6.21		5.04	11.24	t.p.	t.p.		
5	6.4		5.05	11.45	m.s.			
6	6.7		5.08	11.78				
7	7.4		5.18	12.58				
8	7.6		5.21	12.81				
9	7.7		5.22	12.92				
10	8.4		5.42	13.82				
11	8.6	8.6 (8.600)	5.49	14.09				
12	~~9.2~~ m.s.	8.7 (8.700)	5.52	14.22				
13	9.3	9.3 (9.300)	5.81	15.11				
14	9.4	9.4 (9.400)	5.87	15.27				
15	9.6	9.6 (9.600)	6.01	15.61				

Images poor !!

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Tuesday, May 5, 1914.

Scale 11 Series 240. Ecliptic Card.

Mc 5338 59 K. +22

		Curve	Magn.
1	3.2	.	
2	4.0	4.91	8.91
3	4.7	4.95	9.65
4	4.4	4.93	9.33
5	5.3	4.99	10.29
6	5.6	5.00	10.60
7	5.8	5.01	10.81
8	6.1	5.03	11.13
9	5.9	5.02	10.92
10	6.5	5.06	11.56
11	6.6	5.07	11.67
12	6.8	5.09	11.89
13	7.4	5.17	12.57
14	7.6	5.21	12.81
15	7.6	5.21	12.81
16	8.3 8.35 8.4	5.40	13.75
17	8.6 8.60 8.6	5.49	14.09
18	8.6 8.60 8.6	5.49	14.09
19	9.4 9.40 9.4	5.87	15.27
20	9.7 9.70 9.7	6.08	15.78

P.C.		Curve	Magn.
6.4	6.40 6.4	1.17	7.57
7.3	7.30 7.3	1.31	8.61
7.6	7.60 7.6	1.38	8.98
7.6	7.60 7.6	1.38	8.98
8.4	8.40 8.4	1.54	9.94
8.6		1.59	10.19
8.8		1.64	10.44
9.2		1.75	10.95
9.3		1.77	11.07

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1914phae.proj.10590

Tuesday, May 5, 1914.

Scale U

Series 240

11.5 f^3

	MC 5339	Pole
		P.C.
5		5.7 5.6510 5.6
6		6.3 6.3510 6.4
8		7 7.4000 8.4 7.4
9		def.
10	4.7	7.6 7.6000 7.6
11	4.8	8.4 8.400 8.4
12	5.1	8.4
13	5.5	8.7
14	5.9	9.2
15	6.4	9.2 poor image
16	6.6	9.5
17	6.8	9.8
18	7.3	
19	7.6	
20	7.6	
23	8.4	
25	8.6 8.6000 8.6	
26	8.7 8.7000 8.7	
27	9.3 9.3000 9.3	
28	9.4 9.4000 9.4	
29	9.6 9.6501 9.7	
30	def.	

See page 124

11.59 W

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1914phae.proj.10590

Monday May 11, 1914.

Scale U Series 188

11:30 mc 3362 Gole.

P.b.

							mc 3367	3373	Mean.					Diff	Mean (March 1914)
5					5.8	5.8	5.80	6.75	6.12	32	32	63	+0.37	5.80 00 00.	
6					6.5	6.7	6.60	8.40	7.20	60	60	120	−0.09	6.65 05 05 10	
8					8.5	8.4	8.40	8.65	8.50	05	10	15	−0.27	8.42 03 02 02	
9			mc	mc											
			3367	3373	Mean.	Diff.	8.8	8.8	8.60	8.96	8.78	02	18	17	+0.05	8.68 12 08 03	
10	4.9		5.35	4.7	4.98	18 37	9.4	9.4	J.P.	9.45	9.42	02	03		−0.40	9.18 22 23	
11	5.7		5.7	5.3	5.57	1 1	9.5	9.6	9.7	9.8	9.68	13	02	12	−0.13	9.57 02 13 12	
12	5.7		5.8	5.5	5.67	0 1	9.7	9.8	9.8	7	9.78	03	02	02	+0.08	9.78 03 02 02	
13	6.4		6.5	5.9	6.27	1 2			n.s		n.s						
14	Def.		6.7	6.4	6.55	1 2											
15	7.4		7.5	6.9	7.27	1 2											
16	7.6		7.6	7.4	7.53	1 1											
17	7.6		7.8	7.6	7.67	1 1											
18	8.4	8.40 00	8.5	8.30	8.40	00 10											
19	8.6	8.60 00	8.6	8.65	8.50	8.58 02											
20	8.7	8.75 10	8.78	8.76	8.65	8.72 03											
23	9.4	9.40 00	9.44	9.40	9.35	9.38 02											
25	9.89	9.85 10	9.88	9.70	9.65	9.73 12											
26	9.95			9.90	7	9.90											
27	10.2			7													

See P. 139, 141.

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1914phae.proj.10590

Monday, May 11, 1914

Copied

Scale U. Series 88

Mb 3365 8H K

+17

		Curve	Magn.	P.C.		Curve	Magn.
1	4.6	4.17	8.77	8.5	8.50 00 8.5	-0.12	8.38
2	5.5	4.07	9.57	8.6	8.60 00 8.6	-0.12	8.48
3	5.6	4.06	9.66	9.8	9.8000 9.8	-0.12	9.68
4	6.3	3.99	10.29		M	M.D.	
5	6.6	3.97	10.57				
6	6.9	3.94	10.84				
7	7.4	3.91	11.31				
8	7.4	3.91	11.31				
9	7.7	3.90	11.60				
10	8.4	3.90	12.30				
11	8.5	3.90	12.40				
12	8.6 8.60 00 8.6	3.91	12.51				
13	9.3 9.20 1 9.1	3.99	13.19				
14	9.2 9.250 1 9.3	4.00	13.25				
15	9.6 9.60 00 9.6	4.13	13.73				
16	9.7 9.65 1 0 9.6	4.15	13.80				

Remeasured.

P.C.

1 8.3

2 8.6

3 9.8

Images are very poor.

P.C. of no. 2 examined on A 3159, and there is a star on this A plate in exactly in same direction on the above MC plate. The P.C. on the MC plate is probably superposed on this star. O. Jan. 16, 1915.

Star on A plate is too faint to affect the image of No. 2 P.C., even if superposed. The original measure is evidently correct. H.S.L. Jan. 18, 1915

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1914phae.proj.10590

Monday May, 11, 1914

Scale 11. Series 88

Mag. 3370 69

		Curve Magn.		P.6.	Curve Magn.		+17 Revised Magn.	
1	Y3			6.5 6.55 ± 0 6.6	0.16	6.71	0.49	6.94
2	3.4	.		6.6 6.65 0 1 6.7	0.14	6.79	0.48	7.13
3	Y3	.		6.4 6.40 0 0 6.4	0.19	6.59	0.53	6.93
3a	3.7	.		7.0 7.05 0 1 7.1	0.03	7.08	0.32	7.37
4	3.6	.		7.4 7.40 0 0 7.4	-0.03	7.37	0.20	7.60
5	4.1	.		7.7	-0.07	7.63	0.10	7.80
6	4.5	4.19	8.69	8.3	-0.11	8.19	-0.07	8.23
6a	4.6	4.17	8.77	8.4	-0.11	8.29	-0.08	8.32
7	4.7	4.15	8.85	8.7	-0.12	8.58	-0.11	8.69
8	5.4	4.08	9.48	9.5 Poor	-0.14	9.36	-0.03	9.47
8a	5.6	4.05	9.65	9.7	-0.15	9.55	0.08	9.70
9	5.9	4.02	9.92	9.8	-0.15	9.65	+0.02	9.82
10	6.6	3.97	10.57					
11	6.4	3.99	10.39					
12	6.4	3.99	10.39					
13	6.5	3.98	10.48					
14	6.6	3.97	10.57					
15	7.1	3.93	11.03					
16	7.6	3.90	11.50					
17	8.9	3.90	12.20					
18	8.6 8.55 0 ±	3.90	12.45					
19	8.5 8.50 0 0 8.6	3.90	12.40					
20	8.7 8.70 0 0 8.7	3.91	12.61					
21	9.2 9.15 0 ± 9.1	3.98	13.13					
22	9.4 9.40 0 0 9.4	4.05	13.75					
23	9.5 ~~9.50 00 9.55~~ * 8.5	4.08	13.58					
		~~3.94~~	~~12.94~~					
24	9.8 9.75 0 ± 9.7	4.20	13.95					
25	9.8 9.80 0 0 9.8	4.23	14.03					
26								

March 23, 1921
From curve drawn from corrected means of scale readings, which originally were wrongly taken.

wrong unit. Should be 9.5. Reexamined October 6, 1914. by O.

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1914phae.proj.10590

Monday May 11, 1914

Scale ½. Series 88 Cooperfield.

	Nb 3371	85K Curve	85K Magn.	Pb	Curve	Magn.
1	7.6	4.18	8.78	8.7 8.6	-0.12	8.53
2	5.6	4.06	9.66	9.5 9.5	-0.14	9.36
3	5.6	4.06	9.66	9.6 9.6	-0.14	9.46
4	6.2	4.00	10.20			
5	6.7	3.96	10.66			
6	7.3	3.92	11.22			
7	7.6	3.90	11.50			
8	7.6	3.90	11.50			
9	8.4	3.90	12.30			
10	8.4	3.90	12.30			
11	8.5	3.90	12.40			
12	8.8	3.92	12.72			
13	9.2 8.9	3.96	13.01			
14	J.p. J.p.	.	.			
15	9.5 9.5	4.08	13.58			
16	9.5 9.6	4.10	13.65			
17	10.1 10.1	.	.			

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Monday May 11, 1914

Scale U. Series 88

M b. 3367 Pole Measured out of order by mistake

			P b
5			5.8 5.80 00 5.8
6			6.6 6.60 00 6.6
8			8.4 8.40 00 8.4
9			8.6 8.60 00 8.6
10	5.3 5.35 ± 0 5.4		T.P. T.P.
11	5.7		9.7
12	5.8		9.8
13	6.5		M.B.
14	6.7		
15	7.5		
16	7.6		
17	7.8		
18	8.5		
19	8.6	8.65 0 1 8.7	
20	8.8	8.75 0 1 8.7	
23	9.4	9.40 0 0 9.4	
25	9.7	9.70 00 9.7	
26	9.8	9.90 ± 1 9.8 10.0	
27	T		
28			
29			

See page 135

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1914phae.proj.10590

Monday. May 11, 1914

Scale .11. Series 88

	Mrk 3368	+20°		V. Lb. Var in Draco. (M. Harwood)		
a	13	Curve	Magn.	4.8 4.750 4.7	Curve	Magn.
b	3.4			6.8 6.8000 6.8	0.10	6.90
c	3.7			7.4 7.3011 7.2	-0.01	7.29
d	3.8			7.7 7.7000 7.7	-0.07	7.63
e	4.4	4.21	8.61	8.4 8.4000 8.4	-0.11	8.29
f	4.6	4.17	8.77	8.4	-0.11	8.29
g	4.5	4.19	8.69	8.4	-0.11	8.29
h	4.6	4.17	8.77	8.9	-0.12	8.78
i						
j						
k	4.6	4.17	8.77	9.1	-0.12	8.98
l	5.2	4.09	9.29			
m	5.6 -- 5.7 5.650 1	4.04	9.69	9.9	-0.16	9.74
n	6.4 -- 6.0 6.202 2	4.00	10.20	9.4		
o	6.1 -- 6.3 6.201 1	4.00	10.20			
p	5.8 -- 5.9 5.850 1	4.02	9.87			
q	6.4	3.98	10.38	9.9?	-0.16	9.74?
r	6.6	3.97	10.57			
s	6.6	3.97	10.57			
t	6.8	3.95	10.75			
u	7.3	3.92	11.22			
v	Double Var.					
w	7.4	3.91	11.31			
x	7.9	3.90	11.80			
y	8.3 8.251 0 8.2	3.90	12.15			
z	8.5 8.500 0 8.5	3.90	12.40			
α	8.7 8.751 0 8.8	3.92	12.67			
β	9.4 9.400 0 9.4	4.05	13.45			
γ	9.9 9.900 0 9.9	4.31	14.21			

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1914phae.proj.10590

Monday May 11, 1914

Scale 11. Series 88

	Mb 3373	Pole	P.b.
5			Sup. Sup.
6			6.8 6.7504 6.7
8			8.4 8.4008 8.4
9			8.7 8.6510 8.6
10	4.7		8.9512 8.8
11	5.3		9.1 9.4501 9.6
12	5.6		9.4
13	5.9		9.8
14	6.4		7H
15	6.9		7H
16	7.4		
17	7.6		
18	8.4 8.3011 8.2		
19	8.5 8.5000 8.5		
20	8.6 8.6501 8.7		
23	9.3 9.3510 9.4		
25	9.7 9.6510 9.6		
26	7H		
27			
28			
29			
30			

See page 135

G. E. D.
12.30

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1914phae.proj.10590

Monday May 11, 1914-

Scale m. N.S. Regions.

1— I 34040 D6 11-15. Alt. Cor. -020

Preceding Eqs. M.B Plate brown in color but ≡ image good.

		pc.1	pc.2		Curve	Magn.	P.C.	sc.2		Curve	Magn.
too far from c.	1	.		.	.		8.4	8.3	8.35 01	-1.30	7.05
" " "	2	.		.	.		def.	.		.	.
	3	3.5	3.7	.	.		8.6	8.6	8.60 00	-1.26	7.34
m. unit.	4	3 4.5	3.7	.	.		8.7	8.6	8.65 10	-1.25	7.40
	5	4.0	4.2 4.1	4.15 01	.		def.	.		.	.
	6	4.5	4.7 4.4	4.55 12	.		t.p.	.		.	.
	7	4.1	4.3 4.3	4.30 00	.		9.6?	t.p.	9.6?	.	.
	8	4	4.4 4.6 4.8	4.70 11	.		10.0?	.	10.0?	.	.
	9	4.5	4.7 4.7	4.70 00	.		∓	.	∓	.	.
	10	4.9	5.1 5.2	5.15 10	3.67	8.82	n.s.				
	11	5.2	5.4 5.4	5.40 00	3.63	9.03					
	12	5.3	5.5 5.4	5.45 10	3.62	9.07					
	13	5.4	5.6 5.6	5.60 00	3.60	9.20					
	14	5.5	5.7 5.6	5.65 10	3.58	9.23					
	15	5.3	5.5 5.6	5.55 10	3.60	9.15					
	16	5.9	6.1 6.1	6.10 00	3.53	9.63					
	17	5.8	6.0 6.3	6.15 21	3.53	9.68					
	18	6.6	6.8 6.8	6.80 00	3.47	10.27					
	19	7.0	7.2 7.3	7.25 01	3.47	10.72					
	20	6.9	7.1 7.1	7.10 00	3.46	10.56					
	21		7.5 7.4	7.45 10	3.48	10.93					
	22		7.6 7.6	7.60 00	3.51	11.11					
	23		8.0 8.1	8.05 01	3.60	11.65					
	24		8.2 8.0	8.10 12	3.61	11.71					
	25		8.4 8.4	8.40 00	3.70	12.10					
	26		8.4 8.4	8.40 00	3.70	12.10					
	27		8.4 8.6	8.50 11	3.74	12.24					

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1914phae.proj.10590

Monday May 11, 1914.

Scale m. H.S. Regions Copeid.

I 34040 D6 cont.

	sc.1	sc.2		Curve	Magn.
28	8.6	8.5	8.55 01	3.77	12.32
29	9.1?	9.3?	9.20 11	4.14	13.34?
30	9.2?	9.1?	9.15 01	4.10	13.25?
31	9.1?	8.9?	9.00 11	4.02	13.02?
32	9.6?	9.4	9.50 11		
33	f.				F.

Ht. Sets from running to color of plate. Reject?

Polar

					Diff.
5				8.2 8.9	8.05 21 -1.56
6				8.3 8.3	8.30 00 -1.19
8				9.4 9.4	9.40 00 -1.17
9			Diff.	f	F
10	5.4 5.6 5.6	5.60 00	3.42		
11	5.1 5.9 5.9	5.90 00	3.65		
12	6.0 6.2 6.4	6.30 11	3.56		
13	6.6 6.8 6.9	6.85 01	3.45		
14	6.9 7.1 7.4	7.25 12	3.40		
15	7.5	7.6	7.55 10	3.53	
16	7.7	7.9	7.80 11	3.60	
17	7.9	8.2	8.05 12	3.58	
18	8.4	8.4	8.40 00	3.66	
19	8.6	8.6	8.60 00	3.82	
20	8.8	8.9	8.85 01	3.88	
23	9.1	9.1	9.10 00	4.24	
25	t.p.				
26	t.p.				
27					

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1914phae.proj.10590

Monday May 11, 1914

Scale m. H.S. Regions

I 340 40 D6 11 - 15 Alt. Cor. -020

Following Images.

	pc.1	pc.2		Curve	Magn.	P.C.-pc.2	Curve	Magn.
1	.			.	.	8.3	-1.31	6.99
2	.			.	.	t.f.	.	.
3	3.6	3.8		.	.	8.1	-1.24	7 6.46
4	3.5	3.7		.	.	8.1	-1.24	7 6.46
5	3.1	3.9		.	.	8.8	-1.23	7 6.57
6	4.5	4.7		.	.	9.2	.	.
7	4.3	4.5		.	.	9.2	.	.
8	4.5	4.7		.	.	t.f.	.	.
9	4.5	4.7	5.2 4.95 32		3.71	8.66		
10	4.1	4.9	5.3 5.10 22		3.68	8.78	t.f.	. .
11	5.0	6.25.2	5.20 00		3.66	8.86		
12	5.4	5.6	5.6 5.60 00		3.60	9.20		
13	5.3	5.5	5.7 5.60 11		3.60	9.20		
14	5.3	5.5	5.5 5.50 00		3.61	9.11		
15	5.5	5.7	5.8 5.75 10		3.56	9.31		
16	6.0	6.2	6.2 6.20 00		3.52	9.72		
17	6.4	6.6	6.4 6.50 12		3.49	9.99		
18	6.6	6.8	6.7 6.75 01		3.47	10.22		
19		7.1	6.8	6.95 12		3.46	10.41	
20		7.2	7.4	7.30 11		3.47	10.77	
21		7.6	7.4	7.50 12		3.49	10.99	
22		7.6	7.8	7.70 21		3.52	11.22	
23		7.8	8.3	8.05 23		3.60	11.65	
24		7.8	7.8	7.80 00		3.54	11.34	
25		8.4	8.4	8.40 00		3.70	12.10	
26		8.4	8.4	8.40 00		3.70	12.10	
27		8.4	84	8.40 00		3.70	12.10	

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1914phae.proj.10599

Monday May 11, 1914.

Scale M U.S. Regions.

I 34.40

Foll. Inv.

	pc 2	pc 2	Curve	Magn.
28	8.8	8.7? 8.75 01	3.88	12.63 ?
29	9.1	9.3? 9.20 11	H.14	13.34 ?
30	8.6	8.7? 8.65 01	3.81	12.46 ?
31	8.8		3.91	12.71
32	~~8.6~~ 9.3		H.20	13.50
33	±			F

Faint Images are very difficult to measure: Plate brown and ∴ difficult to see. Also P.C.'s poor. Reject??

2:10

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Tuesday, May 19, 1914.

Scale U

Series 244

mc 5370 Pole - Broken

1.25

		mc 5375	mc 5381	Mean	Diff.
5					
6					
8					
9					
10	4.1	4.2	4.3	4.20 ± 0 1	4.82
11	4.6	4.5	4.6	4.57 0 ± 0	4.98
12	5.0	4.8	4.9	4.90 1 ± 0	4.96
13	5.5	5.4	5.2	5.37 1 0 ±	4.93
mer crack	14 5.8	5.8	5.6	5.73 1 1 ±	4.92
15	5.9	6.1	5.8	5.93 0 2 ±	5.15
16	6.4	6.6	6.4	6.47 ± 1 ±	4.93
17	6.6	6.6	6.6	6.60 0 0 0	5.03
18	7.2	7.1	6.9	7.07 1 0 ±	4.99
19	cracked	7.4	7.4	7.40 . 0 0	5.02
20	7.7	7.7	7.7	7.70 0 0 0	5.03
23	8.4 8.4000	8.4	8.40	8.40 00 00 00	4.94
25	cracked	8.60	8.70	8.65 . 05 05	5.22
26	8.9 9.00 ± 1	9.1	8.85	8.85	8.90 10 05 05	5.43
27	9.3 9.35 ± 0	9.4	9.40	9.30	9.35 00 05 05	5.34
28	9.6 9.6000	9.6	9.50	9.45	9.52 08 02 07	5.59
29	9.9 9.9000	9.9	9.75	7	9.82 08 07 .	5.84
30	F			m.s?		

	PC.			Mean			Diff
5.4	5.4 5.5 5.45 0 1	5.40	5.40	5.42	03	02 ± 02	1.07
6.4	6.4 5.8 6.10 3 2	5.80	5.80	5.90	20	10 10	1.21
7.4	7.4 (mc) 7.35 0 1/3	7.20	6.95	7.17	18	03 22	1.06
7.6	7.6 (mc) 7.65 0 ±	7.65	7.70	7.67	02 ±	02 ± 03	1.16
7.7	7.7 7.7000	7.70	7.80	7.73	03 ±	03 ± 07	1.29
8.4		8.4	8.3	8.37	0	0 1	1.18
8.7		8.5	8.6	8.60	1	1 ± 0	1.26
9.1		9.00	8.84	8.97	1	0 2	1.33
9.4		9.1	9.4	9.30	1	2 ± 1	1.35
9.8		9.8	9.7	9.78 (7)	0	0 1	1.38
F		10.0		10.00 . a .			1.48

1.32

VA

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Scale U

Series 244-

Card.

MC 5371

12 0 — 5,0

Alt. com. 00

		Curve	Magn.	Q.C.	Curve	Magn.
1	Q.	.	.	5.6 5.5 5.55 ±1	1.13	6.68
2	3.0	.	.	6.1 6.1 6.70 00	1.17	7.87
3	3.1	H.84	8.54	7.8 7.8 7.80 00	1.20	9.00
4	5.5	H.93	10.43	9.5 9.6 9.55 ±0	1.34	10.89
5	7.1	H.99	12.09	~~tot~~ w.s.		
6	6.1	H.95	11.05	m.s.		
7	7.2	H.99	12.19			
8	7.5	5.02	12.52			
9	7.6	5.04	12.64			
10	8.4	5.18	13.58			
11	8.1 8.1 8.70 00	5.28	13.98			
12	very faint!! 10.2. 10.2 10.20 00	.	.			
13	9.5 9.4 9.45 10	5.59	15.04			
14	9.5 9.6 9.55 ±0	5.63	15.18			
15	10.2? F.	.	.			

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Tuesday May 19, 1914.

Scale 4 — Series 244. — Card.

MC 5392 — 12h 10 − 2,5

alt. corr. + 03

					Curve	Magn.	P.C.				Curve	Magn.
1	~~03~~				.	.	5.8	5.8	5.80	00	1.13	6.93
2	3.8				H.85	8.65	7.6	7.6	7.60	00	1.19	8.79
3	4.6				H.91	9.51	8.7	8.7	8.70	00	1.25	9.95
4	5.6				H.93	10.53	10.1	10.1	10.10	00	1.43	11.53
5	6.4				H.96	11.36						
6	7.2				H.99	12.19						
7	7.4				5.00	12.40						
8	7.9				5.08	12.98						
9	8.3				5.15	13.45						
10	8.8	8.7	8.75	01	5.29	14.04						
11	9.1	8.9	9.00	01	5.39	14.89						
12	8.6	8.7	8.65	01	5.26	13.91						
13	9.4	9.3	9.35	01	5.55	14.90						
14	9.5	9.4	9.45	10	5.59	15.04						
from image	15	9.1	9.1	9.70	00	5.69	15.39					

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Tuesday May 19, 1914

Scale u

Series 244 Card

Mc 5312[3]

12 30 -7.5

Alt corr -.04

		Curve	Magn.	O.C.	Curve	Magn.
1	B.	~~4.84~~	..	5.4 5.4 5.40 .0	1.13	6.53
2	3.7	4.84	8.54	6.7 6.7 6.70 .0	1.17	7.87
3	4.5	4.91	9.41	8.4 8.5 8.45 .1	1.24	9.69
4	5.8	4.94	10.74	10.0? 10.1? 10.05? .0	1.41	11.46?
5	6.4	4.96	11.36			
6	6.7	4.97	11.67			
7	7.2	5.00	12.20			
8	7.4	5.01	12.41			
9	7.7	5.05	12.75			
10	8.4	5.68	~~14.08~~ 13.58			
11	8.6 8.5 8.55 .0	5.23	13.78			
12	8.9 9.1 9.00 .1	5.38	14.38			
13	9.4 9.6 9.50 .1	5.62	15.12			
14	9.7 9.7 9.70 .0	5.71	15.41			
15	10.2? 10.2? 10.20 .0					

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Tuesday, May 19, 1914.

Scale 4. Series 244.

Mc 5375 Pole -

2.08

			Curve	Magn.	PC		Curve	Magn.
5					5.4	5.40 00 5.4	1.13	6.53
6					5.8	5.80 00 5.8	1.13	6.93
8					7.2	7.20 00 7.2	1.17	8.37
9					7.7	7.65 1 0 7.6	1.19	8.84
10	4.2		H.88	9.08	7.7	7.70 00 7.7	1.20	8.90
11	4.5		H.91	9.41	8.4		1.23	9.63
12	4.8		H.93	9.73	8.5		1.24	9.74
13	5.4		H.93	10.33	9.2	9.00 2 2 8.8	1.28	10.28
14	5.8		H.94	10.74	9.1		1.29	10.39
15	6.1		H.95	11.05	9.8		1.38	11.18
16	6.6		H.97	11.57	10.0		1.40	11.40
17	6.6		H.97	11.57				
18	7.1		H.99	12.09				
19	7.4		5.01	12.41				
20	7.7	7.7 (w.s.)	5.05	12.75				
23	8.4		5.18	13.58				
25	8.6	8.60 00 8.6	5.24	13.84				
26	8.9	8.85 1 0 8.8	5.26	14.11				
27	9.4	9.40 00 9.4	5.57	14.97				
28	9.6	9.50 1 1 9.7	5.61	15.11				
29	9.6	9.75 0 1 9.7	5.71	15.46				
30	def.							

See page 146

2.15

W

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Tuesday May 19, 1914.

Scale U Series 244. Card.

MC 5378 Alt-cor — 32 13 50 — 20.0

			Curve	Magn.	D.C.			Curve	Magn.
1	3.6		4.83	8.43	6.6	6.6	6.60 00	1.16	7.76
2	3.8		4.85	8.65	7.4	7.3	7.25 0±	1.18	8.53
3	5.3		4.93	10.23.	9.4	9.3	9.35 0±	1.32	10.67
4	5.3		4.93	10.23	9.4	9.4	9.40 00	1.33	10.73
5	5.5		4.94	10.44	9.7	9.8	9.75 ±0	1.37	11.12
6	5.9		4.95	10.85	10.1?			1.42	11.52?
7	6.8		4.97	11.77					
8	7.4		5.01	12.41					
9	7.4		5.01	12.41					
10	7.8		5.06	12.86					
11	8.5	8.5 8.50 00	5.21	13.71					
12	8.7	8.7 8.70 00	5.28	13.98					
13	8.7	8.6 8.65 10	5.26	13.91					
14	9.4	9.5 9.45 01	5.08	14.53					
15	9.4	9.4 9.40 00	5.07	14.47					
16									
17									

See note on cover of this plate. Plate is not good. Images are difficult to compare with scale but it is so far south that it will be difficult to obtain a better plate.

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Tuesday May 19, 1914.

Scale K

Series 244. Cards.

mc 5380 — m 5

15 10 + 2.5 Alt. +.07

See page 212 for remeasure of star m.

Altitudes are not applied to magns copied in following columns.

	mc 5380 curve	mag.	mc 5380 Bk.163 Bk.8	mc 5421 Bk. Bk.5.182	mc 5421 Bk.8 158	P.C.	curve	mag.	mc 5421 Bk.163	mc 5421 Bk.8 Bk. 5.182
1	4.3	4.89	9.19	.	9.35	9.28	7.6	7.6	7.60 .0	1.18	8.78	8.76	8.95
2	4.2	4.88	9.08	.	9.13	9.15	7.6	7.8	7.70 .1	1.19	8.89	8.95	8.90
3	4.5	4.90	9.40	9.40	9.39	9.81	8.5	8.5	8.50 .0	1.24	9.74	9.88	9.87
4	5.6	4.93	10.53	10.53	10.81	10.90	9.1	9.6	9.65 .0	1.36	11.01	11.05	11.10
5	5.7	4.94	10.64	10.64	11.10	11.11	t.p.						11.46
6	6.2	4.95	11.15	11.20	11.70	11.72							
7	6.9	4.97	11.87	12.02	12.60	12.62							
8	7.4	5.00	12.40	12.52	12.70	12.72							
9	7.7	5.05	12.75	12.82	12.90	13.02							
10	7.7	5.05	12.75	12.82	13.00	13.12							
11	8.4 (8.40 .0)	8.4	5.18	13.58	13.60	13.75 / 14.15	13.84						
12	8.7 (8.70 .0)	8.7	5.28	13.98	14.06	14.15 / 14.21	14.26						
13	9.1 (9.20 .1)	9.3	5.48	14.68	14.70	14.21 / 14.91	14.42						
14	9.3 (9.35 .0)	9.4	5.54	14.89	14.93	14.91 / 15.5	14.82						
15	9.6 (9.60 .0)	9.6	5.64	15.24	15.35	15.54	15.18						
(Ha.74) α = a	5.7		4.94	10.64				9.7	9.7	9.70 .0	1.37	11.07	
b	6.3		4.95	11.25									
c	7.4		5.00	12.40									
d	7.7		5.05	12.75									
e	7.7		5.05	12.75									
f	8.6		5.23	13.83									
g	8.7		5.28	13.98									
h	9.3 (9.30 .0)	9.3	5.52	14.82									
l	9.5 (9.55 .0)	9.6	5.62	15.17									
m	9.4 (9.45 .1)	9.5	5.58	15.03									
n	.1												

See remark page 212.

Not counted in regions m.

see plan next page.

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Tuesday May 19, 1914.

Scale U. Series 244. Card

MC 5380 M 5 cont.

P.C.

plates from N.a. H. α =		Curve	Magn.
0			
beg.	β	6.4	4.96	11.36
	γ	6.6	4.97	11.57
	δ	7.3	5.00	12.30
	ε	8.2	5.12	13.32
	ζ	8.4	5.18	13.58

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Tuesday May 19. 1914.

Scale -

Mc 5381

Stars 244.

Pole -

		G.C.
5		5.4 5.40 00 5.4
6		5.8 5.80 00 5.8
8		6.9 6.95 10 7.0
9		7.1 7.70 00 7.1
10	4.3	7.8 7.80 00 7.8
11	4.6	8.3
12	4.9	8.6
13	5.2	8.8
14	5.6	9.4
15	5.8	9.7
16	6.4	~~9.7~~ 11.
17	6.6	
18	6.9	
19	7.4	
20	7.7	
23	8.4 8.40 00 8.4	
25	8.1 8.70 00 8.1	
26	8.9 8.85 10 8.8	
27	9.3 9.30 00 9.3	
28	9.4 9.45 10 9.4	
29	~~7~~	
30.	n.s.?	

See page

3.05

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Wednesday May 20, 1914.

Scale u
1:30

mc 5432

Series 248

Pole -

		mc 5437	mean			Diff.
5						
6						
8						
9		mc 5437	mean			Diff.
10	4.5	4.5	4.50	00		4.52
11	4.7	4.7	4.70	00		4.85
12	5.3	5.3	5.30	00		4.56
13	5.6	5.5	5.55	0	1	4.75
14	5.8	5.7	5.75	0	1	4.90
15	6.4	5.9	6.15	2	3	4.93
16	6.6	6.4	6.50	1	1	4.90
17	6.8	6.6	6.70	1	1	4.93
18	7.6 7.4 (7.50 1 1)	7.1	7.30	2	2	4.76
19	7.7	7.6	7.65	1	0	4.77
20	8.3 (8.3000)	7.70	8.00	30	30	4.73
23	8.4 (8.50 1 1) 8.6	8.35	8.42	08	07	4.92
25	8.9 (9.00 1 1) 9.1	8.60	8.80	20	20	5.07
26	9.2 (9.250 1) 9.3	8.90	9.08	17	18	5.25
27	9.4 (9.60 1 1) 9.5	9.45	9.52	08	07	5.17
28	n.s.	9.70	9.70	.	a	5.41
29						
30						

P.C.

	mc 5437	mean			Diff.
5.7 (5.70 0 0) 5.7	5.50	5.60	10	10	0.89
6.4 (6.40 0 0) 6.4	6.30	6.35	05	05	0.76
7.5 (7.50 0 0) 7.5	7.05	7.28	22	23	0.95
8.3 (8.25 1 0) 8.2	7.65	7.95	30	30	0.88
8.4 (8.350 1) 8.3	7.75	8.05	30	30	0.97
8.7	8.4	8.55	1	2	1.00
8.8	8.6	8.70	1	1	1.16
9.4	9.3	9.35	0	1	0.95
9.7	9.4	9.55	1	2	1.10
7.	9.8	9.80	.	a	1.28
~~10~~ 7.	10.1	10.10	.	a	1.30

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Wednesday May 20, 1914 -

Scale II

Series 248

Mc 5434 F[3]

11 30 – 12.5

att. cor. -14

				Curve	Magn.	P.C.			Curve	Magn.
1	3.5			.	.	6.7	6.8	6.75 ±0	0.87	7.62
2	3.8			.	.	7.5	7.6	7.55 ±0	0.92	8.47
3	4.1			4.53	8.63	7.7	7.7	7.70 00	0.93	8.63
4	5.4			4.80	10.20	8.9	8.9	8.90 00	1.02	9.92
5	6.0			4.88	10.88	10.0	10.0	10.00 00	1.27	11.27
6	6.7			4.90	11.60					
7	7.4			4.87	12.27					
8	7.8			4.86	12.66					
9	8.4			4.92	13.32					
10	8.5			4.98[6]	13.46					
11	8.6	8.6	8.60 00	4.98	13.58					
12	8.9	9.1	9.00 ±1	5.09	14.09					
13	9.3	9.3	9.30 00	5.21	14.51					
14	9.4	9.4	9.40 00	5.24	14.64					
15	9.7	9.6	9.65 ±0	5.36	15.01					

no 15

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Wednesday May 20, 1914.

Scale U Series 248.

	mc 5434				11 40 − 10.0			
			Curve	Magn.			Curve	Magn.
1	4.0		H.50	8.50	7.7 7.8	7.75 ±0	0.92	8.67
2	4.4		H.60	9.00	8.4 8.4	8.40 00	0.97	9.37
3	5.3		H.77	10.07	8.8 9.1	8.95 ±1	1.03	10.98
4	5.5		H.81	10.31	9.4 9.4	9.40 00	1.12	10.52
5	5.8		H.85	10.65	9.9 10.0	9.95 ±0	1.25	11.20
6	6.3		H.90	11.20	10.0		1.27	11.27
7	7.4		H.87	12.27				
8	7.8		H.86	12.66				
9	8.4	8.3 8.25 ±1	H.91	13.26				
10	8.6	8.6 8.60 00	H.98	13.58				
11	9.1	9.1 9.10 00	5.14	14.24				
12	9.3	9.2 9.25 ±0	5.19	14.44				
13	9.4	9.4 9.40 00	5.24	14.64				
14	9.5	9.5 9.50 00	5.29	14.79				
15	.							
+								

no star around 15 ?

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1914phae.proj.10590

Wednesday May 20, 1914–

Scale a Series 248

MC 5435 130 +30°

All corr. + .22

			Curve	Magn.					Curve	Magn.
1	Q.		:	B	5.5	5.5	5.50	00	0.78	6.28
2	3.6		.	.	6.8	6.8	6.80	00	0.87	7.67
3	4.1		H.66	9.36	8.4	8.4	8.40	00	0.97	9.37
4	4.1		H.66	9.~~72~~ 36	8.7	8.6	8.65	10	1.00	9.65
5	5.1		H.84	10.54	9.6	9.6	9.60	00	1.16	10.76
6	6.1		H.90	11.60	1.	10.0'			1.27	11.27 ?
7	7.5		H.86	12.36						
8	7.8		H.86	12.66						
9	8.4		H.91	13.31						
10	8.8		5.02	13.82						
11	9.2	9.2 9.20	00	5.18	14.38					
12	9.4	9.4 9.40	00	5.24	14.64					
13	9.4	9.5 9.45	01	5.26	14.71					
14	9.6	9.5 9.55	02	5.31	14.86					
15	9.7	9.7 9.70	00	5.39	15.09					

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Wednesday May 20, 1914.

Scale 4

Series 248 Object Card.

mc — 5436 cf 13+15

alt. conv. +1

			Curve	Magn.	P.C.			Curve	Magn.
malge.	1	.	.	.	5.8	5.8	5.80 .00	0.81	6.61
	2	3.4	.	.	6.7	6.5	6.60 .10	0.86	7.46
	3	3.6	.	.	6.8	6.9	6.85 .01	0.87	7.72
	4	3.6	.	.	6.8	6.9	6.85 .01	0.87	7.72
	5	3.9	.	.	7.3	7.4	7.35 .10	0.90	8.25
	6	3.9	.	.	7.7			0.92	8.62
	7	4.3	H.57	8.87	7.8			0.93	8.73
	8	4.6	H.64	9.24	8.5			0.98	9.48
	9	4.7	H.66	9.36	8.6			0.99	9.59
	10	5.2	H.74	9.94	9.1			1.05	10.15
	11	5.3	H.78	10.08	8.8			1.01	9.81
	12	5.4	H.80	10.20	9.4			1.12	9.52 (10)
	13	5.6	H.83	10.43	9.5			1.14	10.64
	14	5.8	H.85	10.65	9.4			1.12	10.52
	15	5.8	H.85	10.65	9.9			1.24	11.14
	16	6.2	H.89	11.09					
	17	6.5	H.90	11.40					
	18	6.6	H.90	11.50					
	19	7.1	H.89	11.99					
	20	7.3	H.88	12.18					
	21	7.7	H.86	12.56					
	22	8.2	H.88	13.08					
	23	8.4	H.92	13.32					
	24	8.6	H.98	13.58					
	25	8.7	5.00	13.70					
	26	9.1	9.0 9.05 .10	5.11	14.16				

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1914phae.proj.10590

Wednesday May 20, 1914-

Scale

Series 248 Objective

MC5436 C7 13+15

Alt corr +17

				Curve	Magn.
27	9.25	9.3	9.25	5.19	14.44
28	9.4	9.4	9.40	5.24	14.64
29	9.8	9.8	9.80	6.43	15.23
30	10.1	10.1	10.10	6.08	15.18
31	✗				✗

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1914phae.proj.10590

Wednesday May 20, 1914.

Scale 2

Series 248

Mc 5437

Pole -

		O.C.
5		5.5 5.5 5.50000
6		6.3 6.3 6.30000
8		7.1 7.0 7.05-10
9		7.6 7.7 7.65001
10	4.5	7.8 7.7 7.75001
11	4.7	8.4
12	~~4.7~~ 5.3	8.6
13	5.5	9.3
14	5.7	9.4
15	5.9	9.8
16	6.4	10.1
17	6.6	
18	7.1	
19	7.6	
20	7.7 7.7 7.70000	
23	8.3 8.4 8.35-10	
25	8.5 8.1 8.60-11	
26	8.9 8.9 8.90000	
27	9.4 9.5 9.45001	
28	9.7 9.7 9.70000	
29	↓	
30		

See page 155

3105

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1914phae.proj.10590

Thursday May 21, 1914-

Scale V

Series 248 (2nd half.)

9:20- mc 5437 Pole-

		mc 5443	mean		Diff.
5					
6					
8					
9		mc 5443	mean		Diff.
10	4.3	4.4	4.35	1 0	4.67
11	4.5	4.6	4.55	1 0	5.00
12	4.6	5.1	4.85	2 3	5.01
13	5.4	5.5	5.45	0 1	4.85
14	5.6	5.8	5.70	1 1	4.95
15	5.8	6.3	6.05	3 3	5.03
16	6.4	6.6	6.50	1 1	4.90
17	6.5	6.6	6.55	1 0	5.08
18	7.2	7.3	7.25	0 1	4.81
19	7.5	7.6	7.55	1 0	4.87
20	7.7	7.6	7.65	1 0	5.08
23	8.3	8.4	8.35	1 0	4.99
25	8.7 8.70 00	8.7	8.70	8.70 00 00	5.17
26	8.8 8.80 00	8.8	8.80	8.80 00 00	5.53
27	9.5 9.45 10	9.4	9.40	9.42 03 02	5.27
28	9.7 9.70 00	9.7	9.55	9.62 08 07	5.49
29	10.0	∓	9.80	9.90 1 1	5.76
30					

B.C.

~~53~~	mc 5443	mean		Diff.
~~6.3~~ 5.35 10 5.4	5.55	5.45	10 10	1.04
6.3 6.10 20 5.9	6.05	6.08	02 03	1.03
6.9 6.90 00 6.9	7.20	7.05	15 15	1.18
7.6 7.60 00 7.6	7.65	7.62	02 03	1.21
7.7 7.75 10 7.8	7.70	7.72	03 02	1.30
8.4	8.6	8.50	1 1	1.05
8.6	8.6	8.60	0 0	2 1.86
9.1	9.4	9.25	1 2	1.05
9.6	9.6	9.60	0 0	1.05
9.7	9.6	9.65	1 0	1.43
10.0		10.00	a.	1.40

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1914phae.proj.10590

Thursday May 21, 1914.

Scale U

Series 248 Objct. Cand.

Mc 5438

129 K.

Alt. corr. −18

				curve	Magn.	P.C.	curve	Magn.
1	3.6			.	.	6.4 6.4 6.40 oo	1.09	7.49
2	4.4			H.85	9.25	8.4 8.2 8.30 ±	1.24	9.54
3	4.5			H.86	9.36	8.4 8.4 8.40 oo	1.25	9.65
4	5.4			H.91	10.31	9.1 9.1 9.10 oo	1.32	10.42
5	6.1			H.93	11.03	± 10.0	1.44	11.44
6	6.3			H.94	11.24	9.9?	1.42	11.82?
7	6.8			H.95	11.75	~~11.0?~~		
8	7.3			H.98	12.28			
9	7.3			H.98	12.28			
10	7.5			H.99	12.49			
11	7.7			5.00	12.70			
12	8.3			5.11	13.41			
13	8.3			5.11	13.41			
14	8.4			5.13	13.53			
15	8.4	8.4	8.40 oo	5.13	13.53			
16	8.6	8.6	8.60 oo	5.18	13.78			
17	8.8	8.7	8.75 ±	5.22	13.97			
18	9.5	9.5	9.50 oo	5.47	14.97			
19	9.8	9.7	9.75 ±	5.56	15.31			

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1914phae.proj.10590

Thursday, May 21, 1914.

Scale U - Series 248. Card.

MC 5439 13 10 +17.5

Alt. Corr. +.18

					Curve	Magn.	P.C.				Curve	Magn.
	1	3.2			.	.	6.4	6.4	6.40	00	1.09	7.49
poor.	2	4.1			4.82	8.92	7.7	7.7	7.70	00	1.20	8.90
	3	4.7			4.88	9.58	8.4	8.4	8.40	00	1.25	9.65
	4	5.3			4.90	10.20	8.7	8.9	9.1	8.90	1.30	10.20
	5	6.3			4.94	11.24	10.0	10.0		10.00	1.44	11.44
	6	6.9			4.95	11.85						
	7	7.5			4.98	12.48						
	8	7.7			5.00	12.70						
	9	8.4			5.13	13.53						
	10	8.4			5.13	13.53						
	11	8.8	8.8	8.80	00	5.24	14.04					
	12	8.8	8.9	8.85	01	5.26	14.11					
	13	9.3	9.3	9.30	00	5.40	14.70					
	14	9.4	9.5	9.45	01	5.45	14.90					
	15	9.8	9.6	9.70	12	5.52	15.22					

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1914phae.proj.10590

Thursday, May 21, 1914.

Scale 2

Series 248. Card

MC 5440 13 10 +27.5

Alt. corr. +.21

				Curve	Magn.	P.C.				Curve	Magn.
	1	3.9		H.79	8.69	7.4	7.3	7.35	01	1.18	8.53
	2	3.9		H.79	8.69	7.5	7.5	7.50	00	1.19	8.69
	3	4.8		H.88	9.68	8.6	8.7	8.65	01	1.28	9.93
	4	5.8		H.92	10.72	9.3	9.6	9.45	12	1.36	10.81
	5	6.4		H.94	11.34	t.p.					9
	6	7.3		H.97	12.27						
W.S.	7	7.85		H.98	12.48						
	8	7.6		H.99	12.59						
	9	7.8		5.01	12.81						
	10	8.8		5.24	14.04						
	11	8.8	8.8 8.80 00	5.24	14.04						
	12	9.1	9.3 9.20 11	5.87	14.57						
	13	9.4	9.1 9.25 21	5.38	14.63						
	14	9.5	9.6 9.55 10	5.48	15.03						
	15	9.7	9.6 9.65 10	5.51	15.16						

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1914phae.proj.10590

Thursday May 21, 1914.

Scale N

Series 248 Card

Mc 5441

13 36 + 45.0

Alt. Corr. +.22

#				Curve	Magn.	C.C.				Curve	Magn.
1	3.6					7.2	7.1	7.15	0	1.15	8.30
2	3.8			H.77	8.57	7.8	7.7	7.75	0	1.20	8.95
3	4.6			H.87	9.47	8.6	8.7	8.65	0	1.28	9.93
4	5.4			H.91	10.31	9.3	9.2	9.25	1	1.34	10.59
5	5.7			H.92	10.62	9.8	9.7	9.75	0	1.40	11.15
6	6.6			H.94	11.54	m.s.					
4	6.8			H.95	11.75						
8	7.6			H.99	12.59						
9	8.3			5.11	13.41						
10	8.4			5.13	13.53						
11	8.6	8.5	8.55	0	5.16	13.71					
12	8.7	8.7	8.70	0	5.21	13.91					
13	9.1	9.3	9.20	1	5.37	14.57					
14	9.4	9.5	9.45	0	5.45	14.90					
15	9.7	9.6	9.65	1	5.57	15.16					

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Thursday May 21, 1914.

Scale 11 Series 248

MC 54421 13 36 +35.0

Alt corr +2.0

			Curve	Magn.	P.C.			Curve	Magn.
1	B.		.	.	5.4	5.4	5.40 00	1.00	6.40
2	6.6		.	.	6.7	6.6	6.65 10	1.10	7.75
3	4.4		4.85	9.25	8.4	8.4	8.40 00	1.26	9.66
4	5.0		4.90	9.90	9.4	9.3	9.35 01	1.35	10.70
5	5.9		4.93	10.83	def?				R
6	6.7		4.95	11.65	m.s.				
7	7.3		4.97	12.27					
8	7.8		5.01	12.81					
9	8.3		5.11	13.41					
10	8.6		5.18	13.78					
11	8.7	8.8 8.75 10	5.22	13.97					
12	9.4	9.3 9.35 01	5.41	14.76					
13	9.5	9.3 9.40 11	5.43	14.83					
14	9.4	9.3 9.35 01	5.41	14.76					
15	9.4	9.4 9.40 00	5.43	14.83					

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1914phae.proj.10590

Thursday May 21, 1914.

Scale U

Series 248

10:15 mc 5443 Pole

		PC.
5		5.6 5.5 (5.5501)
6		6.1 6.0 (6.0510)
8		7.2 7.2 (7.2000)
9		7.7 7.6 (7.6510)
10	4.4	7.7 7.7 (7.7000)
11	4.6	8.6
12	5.1	8.6
13	5.5	9.4
14	5.8	9.8 (6 wrs)
15	6.3	9.6
16	6.6	
17	6.6	
18	7.3	
19	7.6	
20	7.6	
23	8.4	
25	8.7 8.7 (8.7000)	
26	8.9 8.7 (8.8011)	
27	9.4 9.4 (9.4000)	
28	9.6 9.5 (9.5501)	
29	9.8 9.8 (9.8000)	
30	F	

See page 162

10:20 W

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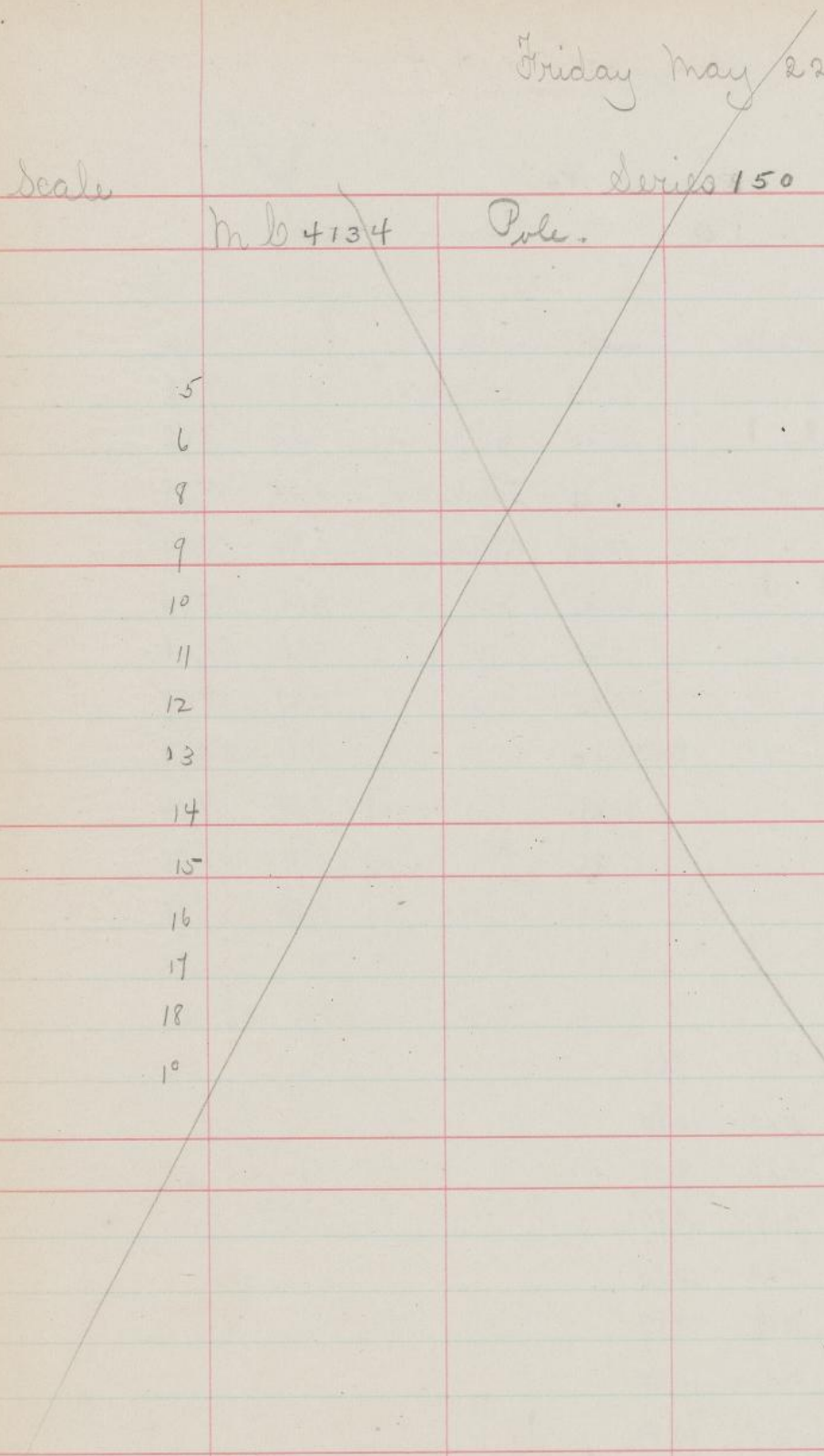
1914phae.proj.10590

Friday May 22, 1914

Scale Series 150

m b 4134 Pole.

5
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19



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Friday May 22, 1914

Scale R — Series 150. — Card

9:30 — MC 4134 — D10. — 19 - 15

Att. Cor. -34

			Curve	Magn.	P.C.			Curve	Magn.
too far from center	1		.	.	7.4	7.3	7.35 0±	0.21	7.56
	2	3.7	.	.	7.4	7.4	7.40 00	0.22	7.62
" " " "	3	.	.	.	7.6	7.5	7.55 0±	0.23	7.78
" " " "	4	.	.	.	7.7	7.6	7.65 10	0.24	7.89
" " " "	5	.	.	.	7.7	7.7	7.70 00	0.25	7.95
	6	3.9	.	.	7.8			0.26	8.06
	7	4.6	.	.	8.3			0.27 (3829)	8.57 (6059)
	8	4.8 - 4.7	4.75 0±	4.22	8.97	8.4		0.31	8.71
	9	4.6 - 4.5	4.55 0±	.	.	8.7		0.34	9.04
	10	3.9 - 4.0	3.95 10	.	.	8.4		0.31	8.71
	11	4.7	.	.	.	8.8		0.36	9.16
	12	5.3	.	.	.	Susp.		.	.
	13	5.0	.	.	.	9.2		.	.
	14	5.4	4.22	9.62	9.4			.	.
	15	6.6 6.6	6.60 00	4.20	10.80	9.9		.	.
	16	5.7 5.8	5.75 10	4.21	9.96	9.6		.	.
	17	6.6		4.19	10.79				
	18	5.9 - 6.0	5.95 10	4.20	10.15				
	19	6.7		4.19	10.89				
	20	7.2		4.20	11.40				
	21	6.7		4.19	10.89				
	22	7.3 - 6.9	7.10 22	4.19	11.29				
	23	6.9 - 6.8	6.85 10	4.19	11.04				
	24	7.2		4.20	11.40				
	25	7.6		4.24	11.84				
	26	7.4		4.21	11.61				

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1914phae.proj.10599

Friday, May 22, 1914.

Scale 11 Series 150. Card

MC 4134 19-15 cont.

				Curve	Magn.
27	7.4			H.21	11.61
28	7.7			H.26	11.96
29	7.9			H.31	12.21
30	8.3			H.39	12.69
31	8.4			H.41	12.81
32	8.5			H.45	12.95
33	8.7			H.51	13.21
34a	8.8			H.54	13.34
35	9.3	9.2	9.2510	H.67	13.92
36	9.6	9.5	9.5501	H.77	14.32
37	9.7	9.7	9.7000	H.81	14.51
38	9.8	9.8	9.8000	H.83	14.63
39	10.0	10.0	10.0000	H.89	14.89
40	n.d.				

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May 22, 1914

Scale 11. Series 150 Copied. Card.

Mb 4135 135 M att. -.33

				Curve	Magn.	P.b.			Curve	Magn.
1	5.4			H.22	9.62	9.2	9.3	9.25 01	.	.
2	5.8			H.21	10.01	9.7	9.8	9.75 ±0	.	.
3	6.4			H.19	10.59	51	51		.	.
4	6.8			H.19	10.99					
5	7.6			H.24	11.84					
6	7.6			H.24	11.84					
7	7.7			H.26	11.96					
8	8.3			H.39	12.69					
9	8.4			H.41	12.81					
10	8.4			H.41	12.81					
11	8.8	8.7	8.75 01	H.52	13.27					
12	8.9	9.2	9.05 ±2	H.61	13.66					
13	9.4	9.4	9.40 00	H.72	14.12					
14	9.6	9.6	9.60 00	H.78	14.38					
15	9.9	9.9	9.90 00	H.86	14.76					

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1914phae.proj.10590

May 22, 1914

Scale 11. Series 150 Corrected Card.

alt. -02

	m b 41 36		H Ks		P b				
			Curve	Magn.				Curve	Magn.
1	4.5		.	.	8.14	8.14	8.40 00	0.31	8.71
2	4.6		.	.	8.8	8.7	8.75 01	0.36	9.11
3	5.4		4.22	9.62	9.14	9.14	9.40 00	.	.
4	5.8		4.21	10.01	9.8	9.8	9.80 00	.	.
5	6.6		4.19	10.79	n.d.	n.d.		.	.
6	7.5		4.23	11.73					
7	7.7		4.26	11.96					
8	7.9		4.31	12.21					
9	8.4		4.41	12.81					
10	8.7		4.51	13.21					
11	8.7	8.7	8.70 00	4.51	13.21				
12	9.2	8.9	9.05 21	4.61	13.66				
13	9.4	9.2	9.30 11	4.69 4.75	13.99				
14	9.4	9.4	9.40 00	4.72	14.12				
15	9.5	9.5	9.50 00	4.75	14.25				
N									

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May 22, 1914

Scale 11. Series 150 Copied Card.

Mlo H137 2 Pls

				Curve	Magn.	P.b.			Curve	Magn.
1	H.7					8.7	8.7	8.70 00	0.35	9.05
2	5.H			H.22	9.62	9.H	9.H	9.40 00		
3	6.3			H.19	10.49	h.d.				
H	6.3			H.19	10.49					
5	6.9			H.19	11.09					
6	7.5			H.23	11.73					
7	7.7			H.26	11.96					
8	8.H			H.H1	12.81					
9	8.7			H.51	13.21					
10	8.8	8.6	8.70 11	H.51	13.21					
11	9.2	9.3	9.25 02	H.67	13.92					
12	9.H	9.3	9.25 02	H.78	14.06					
13	9.H	9.H	9.40 00	H.72	14.12					
14	9.7	9.6	9.65 10	H.79	1444					
15	5H	h.d.								

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1914phae.proj.10590

May 22, 1914

Cand.

Scale 1.

Series 150

Objective.

Mo 4138 111 17

Alt. -64

				Curve	Magn.					Curve	Magn.
1	3.6			.	.	6.6	6.7	6.65 01		0.18	6.83
2	4.7			.	.	8.6	8.6	8.60 00		0.33	8.93
3	5.2			4.22	9.42	9.4	9.4	9.40 00		.	.
4	5.8			4.21	10.01						F
5	6.0			4.20	10.20						
6	6.6			4.19	10.79						
7	6.7			4.19	10.59						
8	7.3			4.21	11.51						
9	7.6			4.24	11.84						
10	7.9			4.31	12.21						
11	8.4	8.6	8.50 01	4.45	12.95						
12	8.8	8.7	8.75 01	4.52	13.27						
13	8.8	8.7	8.75 01	4.52	13.27						
14	8.9	8.8	8.85 10	4.~~55~~	13.40						
15	9.4	9.5	9.45 01	4.73	14.18						

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1914phae.proj.10590

May 22, 1914

Scale 2. Series 150

Mb W139 Pole

		Diff.
	4.8	4.22
	5.3	4.25
	5.6	4.26
	6.2	4.10
	6.6	4.05
	8.2?	2.88
	7.2	4.20
	7.4	4.23
	7.7	4.36
	8.3	4.12
8.4000	8.4	4.33
8.7000	8.7	4.64
9.1500	9.2	4.72
9.6000	9.6	4.73
9.8000	9.8	4.89

Pl.	Diff.
6.5011	
6.6	−0.01
6.7505	
8.5011	+0.36
8.1	+0.23
8.6000	
8.6	+0.23
8.6510	
8.6	+0.37

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1914phae.proj.10590

Thursday, May 28, 1914.

Scale U

1115

(Part of) Series 232.

mc 5221 2 2 Pole.

					P.C. P.C.	P.180	Mean		Diff.
5					5.50 00 / 5.5 5.5	5.45	5.48	02 03	1.01
6			Mean.	Diff.	6.30 00 / 6.2 6.2	6.10	6.15	05 05	0.96
8		mc 5221 P.180			1.35 1.0 / 7.3 7.4	7.30	7.28	01 08	0.95
9					7.50 00 / 7.5 7.5	7.60	7.55	05 05	1.28
10	4.5	4.6	4.55 1.0	+4.47	7.65 1.0 / 7.7 7.6	7.70	7.68	03 02	1.34
11	4.8	4.9	4.85 01	4.10	8.35 01 / 8.4 8.3	8.4	8.38	03 02	1.17
12	5.3	5.3	5.30 00	4.56	8.4	8.1	8.55 2 1		1.31
13	5.6	5.6	5.60 00	4.70	8.1	8.8	8.75 1 0		1.55
14	6.3	6.1	6.20 11	4.45	def.	9.1	9.1 . 0		1.55
15	6.4	6.3	6.35 01	4.73	9.4	9.4	9.40 0 0		1.68
16	6.65 10 / 6.7 6.6	6.5	6.58 01 08	4.82	9.5? 9.7?	9.6	9.65 1 0		1.75
17	6.70 00 / 6.7 6.7	6.1	6.70 00 00	4.93	9.7	9.8	9.75 1 0		1.88
18	7.3	7.4	7.35 1 0	4.71	9.9?	.	9.9?		2.16?
19	7.6	7.6	7.60 00	4.82	n.s.	.	.		
20	7.8	7.7	7.75 01	4.98					
23	8.30 00 / 8.3 8.3	8.4	8.35 05 05	4.99					
25	8.60 00 / 8.6 8.6	8.10	8.65 05 05	5.22					
26	8.80 00 / 8.8 8.8	8.80	8.80 00 00	5.53					
27 (poor im.)	8.85 10 / 8.9 8.8	9.20	9.02 17 18 / ~~8.98~~ 13 2	5.67					
28	9.35 01 / 9.4 9.3	9.50	9.42 07 08	5.69					
29	def? def?	9.65	9.65 . 0	6.01					
30	9.90 00 / 9.9 9.9	.	9.90 0 .	6.14					

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Thursday May 28, 1914.

Scale 2 (Part of) Series 232. Cand

mc 5225 m3 wt. +.212

			mag.	B.C. curve	
1	3.0			7.4 7.4 7.40 .00 1.08	8.48
2	5.3	4.62	9.92	8.5 8.5 8.50 .00 1.32	9.82
3	5.6	4.63	10.23	8.8 8.7 8.750.1 1.41	10.16
4	5.8	4.64	10.44	8.8 8.8 8.80 .00 1.42	10.22
5	6.4	4.69	11.09	9.7 9.7 9.70 .00 1.93	11.63
6	7.3	4.83	12.13	m.s. m.s.	
7	7.7	4.90	12.60		
8	7.9	4.98	12.88		
9	8.4	5.18	13.58		
10	8.7 9.10 .00	5.33	14.03		
11	9.1 9.1 9.40 .00	5.56	14.66		
12	9.4 9.4 9.70 .00	5.80	15.20		
13	9.7 9.7 9.85 1.0	6.02	15.72		
14	9.9 9.8 10.00 .00	6.10	15.98		
15	10.0 10.0	6.27	16.27		

marked from Vol. 38 except Greek letters.

α	3.8			7.4 7.4 7.40 .00 1.08	8.48
β	5.6	4.63	10.23	9.0 8.9 8.95 0.1 1.50	10.45
γ	5.8	4.64	10.44	9.3 9.3 9.30 .00 1.68	10.98
δ	6.8	4.74	11.54	10.0? 10.1? ft. 10.05 0.1 2.16	12.21?
ε	7.1	4.91	12.61		
ζ	7.4	4.85	12.25		
η	8.6	5.28	13.88		
a	8.21	5.09	13.29		
b	8.3	5.14	13.44		
c	8.5	5.23	13.73		
d	8.6	5.28	13.88		

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Thursday May 28, 1914.

Scale K. (Part of) Series 232. Cont'd.

Mc 5225 M 3 cont.

				curve	Measd.
e	8.8			5.39	14.19
f	9.1			5.57	14.67
g	9.4			5.80	15.20
h	9.3	9.4	9.35 10	5.75	15.10
k	9.6	9.5	9.55 0 1	5.91	15.46
l	9.1	9.1	9.10 0 0	6.02	15.12
m	9.6	9.1	9.65 0 1	5.96	15.61
n	9.1	9.1	9.10 0 0	6.02	15.12
o	F.	F.			F

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Thursday May 28, 1914.

Scarr- (Part of) Series 232

	Mc 5 2 27	Pole.	
			Qc.
5			5.4 5.5 5.45 .01
6			6.1 6.1 6.10 .00
8			7.3 7.1 7.20 .11
9			7.6 7.6 7.60 .00
10	4.6		7.7 7.7 7.70 .00
11	4.9		8.4
12	5.3		8.1
13	5.6.		8.8
14	6.1		~~8.7~~ 9.1
15	6.3		9.4
16	6.5		9.6
17	6.7		9.8
18	7.4		n.s.
19	~~8.6~~		
20	7.1		
23	8.4		
25	8.7	8.7 8.70 .00	
26	8.8	8.8 8.80 .00	
27	9.2	9.2 9.20 .00	
28	9.5	9.5 9.50 .00	
29	9.7	9.6 9.65 .10	
very near defect. 30	def.		

2:12

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Thursday May 28, 1914-

Scale x (Part of) Series 247

Mc 5419 Pole

		Mc 5424 P.184	Mean	Diff	P.C.	P.C.	P.184	Mean	Diff
5					5.4	5.40 00			
6					5.7	5.4	5.40	5.40 00 00	+1.09
8					5.7	5.75 10	5.80	5.78 03 02	1.33
9					6.8	6.95 21	6.80	6.88 07 08	1.35
10	3.9	4.0	3.95 10	+5.07	7.6	7.60 7.6 00	7.60	7.60 00 00	1.23
11	4.3	4.2	4.25 10	5.30	7.6	7.60 7.6 00	7.70	7.65 05 05	+1.37
12	4.5	4.6	4.55 10	5.31	8.4		8.4	8.40 0 0	1.15
13	5.1	4.8	4.95 12	5.35	8.6		8.7	8.65 01	1.21
14	5.5	5.4	5.45 10	5.20	8.8		8.8	8.80 00	1.50
15	5.8	5.8	5.80 00	5.28	9.5		9.4	9.45 10	1.20
16	5.9	5.9	5.90 00	5.50	9.7		9.7	9.70 00	1.38
17	6.2	6.3	6.25 01	5.38	9.8		9.8	9.80 00	1.60
18	6.65 01 6.67	6.7	6.68 03 02	5.38	F.		10.1	10.1 a	1.53
19	7.2	7.3	7.25 01	5.17					
20	7.5	7.4	7.45 10	5.28					
23	7.9	8.1	8.00 11	5.34					
25	8.4 8.50 11 8.6	8.70	8.60 10 10	5.27					
26	8.9 8.85 10 8.8	8.95	8.90 05 05	5.43					
27	9.3 9.30 00 9.3 9.45 01	9.35	9.32 02 03	5.37					
28	9.4 9.5	9.50	9.48 03 02	5.63					
29	9.9 9.95 10 10.0	9.80	9.88 07 08	5.78					
30	F. 9.5								

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Thursday May 28, 1914.

Scale (See P. 152) (Pair of) Series 247.

copied on sheet.

Mc 5421 ms. alt. +.08

See page 212 for remeasure of star no.

				P.C.
1	4.1	5.35	9.35	7.7 7.6 7.65 10 1.30 8.95
2	3.9	5.33	9.13	7.6 7.6 7.60 00 1.30 8.90
3	4.5	5.29	9.79	8.6 8.6 8.60 00 1.27 9.87
4	5.5	5.31	10.81	9.8 9.6 9.70 11 1.40 11.10
5	5.8	5.30	11.10	10.0 10.0 10.00 00 1.46 11.46
6	6.4	5.30	11.70	n.s.
7	7.3	5.30	12.60	
8	7.4	5.30	12.70	
9	7.6	5.30	12.90	
10	7.7	5.30	13.00	
11	8.4 8.40 00 / 8.75 01 8.4	5.35	13.75	
12	8.8 8.7 / 8.80 00	5.40	14.15	
13	8.8 8.8 / 9.35 10	5.41	14.21	
14	9.3 9.4 / 9.80 00	5.56	14.91	
15	9.8 9.8	5.54	15.54	
α = 2	5.7	5.31	11.01	9.6 9.6 9.60 00 1.39 10.99
β	6.5	5.30	11.80	n.s.
γ	6.7	5.30	12.00	n.s.
δ	7.2	5.29	12.49	
ε	8.2	5.32	13.52	
ζ	8.3	5.34	13.64	
2 = α				9.6 1.39 10.99
b	6.4	5.30	11.70	
c	7.4	5.30	12.70	
d	7.7	5.30	13.00	
e	7.7	5.30	13.00	
f				

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Thursday May 28, 1914.

Scale R (Part of) Series 241.

	mc 5421			cont.		m 5.	
f	8.4	8.5 8.45	01	~~1.27~~ ~~1.26~~	9.71	5.35	13.80
g	8.1	8.1 8.10	00	~~1.27~~	9.91	5.40	14.10
h	9.3	9.1 9.20	11	~~1.32~~	~~10.52~~	5.50	14.70
~~k~~ no K. in Leq.							
l	9.4	9.3 9.35	01	~~1.35~~	10.70	5.55	14.90
m	9.9	9.9 9.90	00	~~1.44~~	~~11.34~~	5.78	15.68 Reject. See remark fr. 202.
n	~~m.s.~~ ~~f.~~						

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Thursday May 28, 1914.

Scale 11 — Part of Series 247.

mc 54 2 4 Pole -

				O.C:
5				5.4 5.4 5.40 .00
6				5.7 5.9 5.80 .11
8				6.8 6.8 6.80 .00
9				7.6 7.6 7.60 .00
10	4.0			7.7 7.7 7.70 .00
11	4.2			8.4
12	4.6			8.7
13	4.8			8.8
14	5.4			9.4
15	5.8			9.7
16	5.9			9.8
17	6.3			10.1
18	6.7			
19	7.3			
20	7.4			
23	8.1			
25	8.7	8.7	8.70 .00	
26	8.8	9.1	8.95 .21	
27	9.4	9.3	9.35 .01	
28	9.5	9.5	9.50 .00	
29	9.8	9.8	9.80 .00	
30	f.			

See p. 187

3:03

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Thursday June 4, 1914.

Scale U

Series 70.

10 ; 15

Mc 3135 Pole.

P.C.

		mc 3140 B.190.	Mean.	Diff.		B.190	Mean			Diff.
5					5.95 13 6.1 5.8	5.75	5.85	10	10	+0.64
6					6.50 00 6.5	6.55	6.52	02	03	0.59
8		mc			8.15 10 8.1 8.2	8.05	8.10	05	05	+0.13
9					8.70 00 8.7	8.65	8.68	02	03	+0.15
10	5.4	5.3	5.35	01	3 +4.67	9.05 21 8.9	8.75	8.90	15	15	0.12
11	5.7	5.7	5.70	00	3.85	9.6	9.4	9.50	1	1	+0.05
12	5.9	5.8	5.85	10	4.01	9.8	9.7	9.75	0	1	+0.11
13	6.4	6.4	6.40	00	3.90	w.s.					
14	6.7	6.8	6.75	10	3.90						
15	7.3	7.3	7.30	00	3.78						
16	7.4	7.5	7.45	01	3.95						
17	7.7	7.8	7.75	10	3.88						
18	8.3	8.3	8.30	00	3.76						
19	8.6 8.60 00	8.6	8.55	8.58	02 03	3.84					
20	8.8 8.80 00	8.8	8.65	8.72	08 01	4.01					
23	9.4 9.40 00	9.4	9.30	9.35	05 05	3.99					
25	9.7 9.70 00	9.7	9.70	9.70	00 00	4.17					
26	10.0 10.05 01	10.1	9.90	9.98	01 08	4.35					
27	✗										
28											

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Thursday June 4, 1914.

Scale 1. Series 70. Isolpiet.

MC 3136 RS Bootis

alt. corr. +.22 G.C.

			Curve	Magn.				Curve	Magn.
α	B.		.	.	5.8	5.8	5.80 00	0.66	6.46
β	B.		.	.	7.3	7.4	7.35 10	0.36	7.71
γ	4.4		.	.	9.4	9.3	9.35 01	0.08	9.43
→ δ	5.3		3.80 75	9.05	9.9	10.0	9.95 10	0.09	10.04
double a			.	.	.			.	.
b	4.6		.	.	9.4	9.6	9.50 11	0.07	9.57
b'	4.7		.	.	9.6			0.08	9.68
→ d	6.3		3.90	10.20	n.s.			~~n.s.~~	~~n.s.~~
f	6.1		3.89	9.99					
e	6.3		3.90	10.20					
e'	6.9		3.91	10.81					
c	7.4		3.90	11.30					
g	7.5		3.90	11.40					
h	7.8		3.90	11.70					
k	8.6	8.4 8.50 11	3.92	12.42					
l	8.8	8.8 8.80 00	3.94	12.74					
m	9.4	9.3 9.35 01	4.06	13.41					
n	9.7	9.6 9.65 10	4.16	13.81					
o	10.0	10.0 10.00 00	4.29	14.29					
Var.	5.5		3.80	9.30	10.1			0.10 E	10.20 E

No. Var

Curve Magn ch L.H.

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Scale U. Copied Series 70.

Mc 3137 R U Bootis 14 42 +23,7.

Alt. corr. +0.20 P.C.

				Curve	Magn.				Curve	Magn.
1	3.6			.	.	7.4	7.4	7.40 00	0.36	7.76
2	4.6			.	.	8.5	8.5	8.50 00	0.16	8.66
3	5.3			3.75	9.05.	9.3	9.5	9.40 ±1	0.08	9.48
4	5.4			3.77	9.17	9.6	9.5	9.55 ±1	0.07	9.62
5	6.3			3.90	10.20	~~5.~~	~~5.~~		~~5~~	~~5~~
6	6.9			3.91	10.81					
7	7.8			3.90	11.70					
8	8.3			3.90	12.20					
9	8.6			3.92	12.52					
10	8.8			3.94	12.74					
11	9.2	9.3	9.25 01	4.03	13.28					
12	9.4	9.4	9.40 00	4.07	13.47					
13	9.6	9.6	9.60 00	4.14	13.74					
14	9.7	10.0	9.85 ±2	4.23	14.08					
No. 15 just the Var. RU Bootis	~~15~~	9.8	10.1	9.95 ±1	4.27	14.22				

Curve, magn ch R.H.

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Thursday June 4. 1914.

Scale 2 — Series 70. alt. +.9

Mc 3138 M5. 15 14 + 2.4

				curve	magn.
a = α					
	β	7.6		3.90	11.50
	γ	7.8		3.90	11.70
	δ	8.4		3.91	12.31
	ε	9.5	8.3 9.40 11	4.07	13.47
	ζ	9.4	9.6 9.50 11	4.11	13.61
	a	6.7		3.92	10.62
	b	7.4		3.90	11.30
	c	8.4	8.4 8.40 00	3.91	12.31
	d	8.7	9.4 9.05 34 ~~9.3~~ w.s.	3.98	13.03
poor.	e	9.3	9.3 9.30 00	4.04	13.34
	f	9.6	9.7 9.65 01	4.15	13.80
	g	~~1.~~	~~1.~~		

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Thursday June 4, 1914.

Scale R. copied Series 70.

Mc 3139 S Serpentis 15. 17+14.7

alt cir +.17

				Curve	Magn.	B.C.			Curve	Magn.
a	3.6			.	2	7.1	7.4	7.25 ±2	0.39	7.64
b	4.5			.	.	8.5	8.6	8.55 ±0	0.15	8.70
c	4.2			.	2 .	7.7	7.7	7.70 00	0.30	8.00
e	4.6			.	2	8.6	8.5	8.55 ±1	0.15	8.70
d	4.8			.	.	8.9	9.2	9.05 ±2	0.10	9.15
g	5.4			3.77	9.17 2	9.6			0.08	9.68
k	5.7			3.84	9.54	1			f	f
h	5.7			3.84	9.54	1			f	f
f	5.5			3.80	9.30 2	9.8			0.08	9.88
										ch W
m	6.3	6.3	6.30 00	3.90	10.20					
l	5.9	6.3	6.10 ±2	3.89	9.99					
n	6.7			3.92	10.62					
o	7.4			3.90	11.30					
h	7.7			3.90	11.60					
q	7.8			3.90	11.70					
r	8.4			3.91	12.31					
t	8.8	8.9	8.85 01	3.95	12.8 *					
s	8.7	8.7	8.70 00	3.93	12.63					
u	9.6	9.6	9.60 00	4.14	13.74					
w	9.6	9.6	9.60 00	4.14	13.74					
x	10.0	10.0	10.00 00	4.29	14.29					
Var.	9.8			4.21	14.01					
					ch W					

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Thursday June 4, 1914.

Scale U. Series 70.

	Mc 3140	Pole.		P.C.
5				5.7 5.8 5.75 10
6				6.5 6.6 6.55 10
8				7.8 8.1 8.05 21
9				8.6 8.7 8.65 01
10	5.3			8.7 8.8 8.75 10
11	5.7			9.4
12	5.8			9.7
13	6.4			±
14	6.8			
15	7.3			
16	7.5			
17	7.8			
18	8.3			
19	8.6	8.5	8.55	01
20	8.7	8.6	8.65	10
23	9.3	9.3	9.30	00
25	9.8	9.6	9.70	11
26	10.1	9.8	9.90	11
27		±		

10:20.

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Thursday June 4, 1914.

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Scale U. Remeasures of M3.

H 150

12i.

v me 5336.

See Page 131!!

Q.C.

		Diff. from mean P. 131.	curve	Magn.		Diff. P. 131	curve	Magn.
1	4.0	2i	4.90	8.90	7.5 7.5 (7.50 00)	10	1.35	8.85
2	5.9	1	4.99	10.29	8.4 8.1 (8.20 2i)	00	1.51	9.76
3	5.5	0	5.00	10.50	8.6 8.7 (8.65 0i)	00	1.61	10.26
4	5.6	0	5.00	10.60	8.7 8.6 (8.65 1i)	05	1.61	10.26
5	6.1	1	5.04	11.14	9.4 9.2 (9.30 1i)	05	1.77	11.07
6	7.0	3	5.11	12.11	m.s.			
7	7.6	0	5.20	12.80				
8	7.8	1	5.26	13.06				
9	8.4	1	5.41	13.81				
10	8.6	1	5.49	14.09				
11	8.8 8.7 (8.75 0i)	0	5.54	14.29				
12	9.3 9.3 (9.30 00)	05	5.81	15.11				
13	9.8 9.7 (9.75 0i)	25	6.1 5.61	15.86				
14	9.7 9.6 (9.65 1i)	05	6.03	15.68				
15	9.8 9.8 (9.80)	05	6.15	15.95				
α	3.8	1	4.90	8.70	7.4	1	1.33	8.73
β	5.4	2	5.00	10.40	8.7	0	1.63	10.33
γ	5.6	0	5.00	10.60	8.8	1	1.64	10.44
δ	6.6	0	5.07	11.67	10.0?	1	1.95?	11.95?
ε	7.1	0	5.23	12.93				
ζ	7.3	1	5.16	12.46				
η	8.4	1	5.42	13.82				
a	8.3 8.0 (8.15 8i 2)		5.34	13.49				
w.s. b	~~8.8~~ 8.1 7.9 (8.00 1i)	3	5.30	13.30				
c	8.5 8.4 (8.45 0i)		5.42	13.87				
d	8.4 8.5 (8.45 0i)		5.42	13.87				

+50 / 23)+20 = 330/.00 (over)

9J 3 / -.03

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1914phae.proj.10590

Thursday June 4, 1914.

Scale U.

Mc 5336 cont.

				curve	
e	8.6			5.50	14.10
f	8.9			5.60	14.50
g	9.3			5.81	15.11
h	9.4			5.87	15.27
k	9.6	9.5	9.55 .01	5.98	15.53
l	9.7	9.6	9.65 .10	6.04	15.69
m	9.4	9.1	9.55 .21	5.98	15.53
n	9.7	9.8	9.75 .10	6.12	15.87
o	9.9	9.8	9.85 .10	6.19	16.04

12:25

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Thursday June 4, 1914.

Scale 1:35

Series 79.

mc 3258

Pole -

						P.C. -	P.198	P.204		mean	Diff.	
5		mc 3263	mc 3269			6.45 1.0 6.5	6.4	6.25	6.70	-0.21	6.47	+0.02	02 22 23
6						7.40 0.0 7.4	7.4	7.15	7.40	-0.29	7.32	-0.21	08 17 08
8		P.198		Diff.		8.60 0.0 8.6	8.6	8.60	8.85	-0.62	8.68	-0.45	08 08 17
9					mean	9.45 0.1 9.4	9.5	9.40	9.40	-0.67	9.42	-0.59	03 02 02
10	5.3		5.4	5.1	5.47 2 1 2+ 3.55	9.80 0.0 9.8?	9.8?	9.60 poor.	9.75	-0.68	9.72	-0.70	08 12 03
11	5.6		5.6	6.3	5.83 2 2 5 3.72	n.s.		10.0	def.	-0.45			
12	5.9		5.7	6.5	6.05 1 3 5 3.81								
13	6.6		6.6	7.3	6.83 2 2 5	3.47							
14	7.2 7.05 2.1	6.9	6.9	7.4	7.12 01 22 28	3.53							
15	7.6		7.5	7.8	7.63 0 1 2	3.45							
16	7.8 8.40 0.0		7.7	8.4	7.91 2 3 4	3.43							
17	8.4 ~~7.8~~ 8.4		8.30	8.45	8.38 02 08 01	3.35							
18	8.1 8.70 0.0 8.1 9.05 1.1		8.60	8.80	8.70 00 10 10	3.36							
19	8.9 9.1		8.75	9.20	8.98 02 23 22	3.44							
20	9.5 9.45 1.0 9.4		9.35	9.45	9.42 03 01 03	3.31							
23	9.9 9.85 1.0 9.8		9.80	9.95	9.87 02 01 08	3.47							
25	n.s. n.s.												
26													
27													
28													

P.C. Farist.

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Thursday June 4, 1914.

Scale R. Copied Series 79.

Mc 3259 1 Leo. Min.

				Curve	Magn.	C.C.			Curve	Magn.
1	4.0			.	.	8.2	8.1	8.15 0±	-.034	7.81
2	4.4			.	.	8.8	9.1	8.95 2±	-.050	8.45
3	5.3			3.75	9.05	9.8	9.1	9.75 0±	-.062	9.13
α	5.6			3.72	9.32					
β	5.8			3.70	9.50					
γ	6.6			3.60	10.20					
δ	7.3			3.51	10.81					
ε	7.4			3.50	10.90					
a	7.4			3.50	10.90					
b	7.5			3.49	10.99					
c	7.8			3.45	11.25					
d	7.7			3.46	11.16					
d'	7.7			3.46	11.16					
d^2	8.6			3.40	12.00					
e	9.4	9.3	9.35 0±	3.36	12.71					
f	8.6	8.6	8.60 00	3.40	12.00					
g	9.3	9.1	9.20 1±	3.36	12.56					
h	9.4	9.4	9.40 00	3.36	12.76					
k	9.7	9.7	9.70 00	3.36	13.06					
l										
m										

ch W

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Thursday June 4, 1914.

Scale U. Lost Series 79.

Mc 3260 Z Draco. 11 40 +72.8.

Q.C. Alt. +16

			Curve	Magn.	
a	5.5		3.73	9.23	±
b	6.3		3.64	9.94	±
c	6.6		3.60	10.20	
d	7.4		3.50	10.90	
e	7.6		3.47	11.07	
f	7.8		3.45	11.25	
f'	8.4		3.40	11.80	
g	8.5		3.40	11.90	
h	8.9		3.37	12.27	
k	9.1	9.1 9.10 00	3.36	12.46	
l' = l	9.4	9.5 9.45 01	3.36	12.81	
m' = m	9.6	9.6 9.60 00	3.36	12.96	
m = m	9.8	9.8 9.80 00	3.37	13.17	
o	def.				
p	±				
Var.	6.6		3.60	10.20	
				ch W	

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Thursday June 4, 1914.

Scale 11. Copied Series 79.

MC 3261 R Coronae Borealis.

Alt. +18

			Curve	Magn.	D.C.	P.C.	Mean	Curve	Magn.
2 a	4.1		.	.	8.4	8.4	8.40 00	−0.39	8.01
b	4.5		.	.	8.9	8.7	8.80 1	−0.46	8.34
2 c	4.4		.	.	8.7	8.6	8.65 10	−0.43	8.22
2 d	4.6		.	.	9.4	9.4	9.40 00	−0.57	8.83
2 e	4.4		.	.	2 9.1	9.2	9.15 1 0	−0.53	8.62 2
f	4.8		.	.	9.4			−0.57	8.83
2 g	5.1		3.76	8.86 2	9.7			−0.62	9.08
h	6.3		3.75	10.05	.				.
2 k	5.9		3.69	9.59 2	m.s.				.
l	5.9		3.69	9.59					ch W
m	6.5		3.61	10.11					
n	6.7		3.59	10.29					
o	7.4		3.50	10.90					
p	7.6		3.48	11.08					
q	8.5	8.6	8.55 1 0	3.40	11.95				
r	8.6	8.6	8.60 00	3.40	12.00				
s	9.1	8.9	9.00 1	3.37	12.37				
t	9.7	9.7	9.70 00	3.37	13.07				
u	10.0	10.0		3.38	13.38				
w	.								

Var. m.s.

ch W

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1914phae.proj..10500

Thursday June 4, 1914.

Scale R Mc 3262 Series 79. R #5 Urs. maj. Att. 7.20

				Curve	Magn.	P.C.	Curve	Magn.
a	4.4					8.4 8.4 8.40 ..	-0.39	8.01
b	5.3			3.74	9.04	9.4 9.5 9.45 ..	-0.58	8.87
c	6.4			3.63	10.03	m.s.		
d	6.3			3.64	9.94			ch W
e	6.3			3.64	9.94			
f	6.9			3.56	10.46			
g	7.2			3.52	10.72			
h	7.6			3.47	11.07			
k	8.4			3.40	11.80			
l	8.6	8.6	8.60 ..	3.40	12.00			
m	8.8	8.9	8.85 ..	3.38	12.23			
n	9.1	9.2	9.15 ..	3.36	12.51			
o	9.7	9.7	9.70 ..	3.37	13.07			
p.	~~1.~~				F			
Var.	9.8			3.37	13.17			
					ch W			

This star uncertain. See note on back of sample

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1914phae.proj.10590

Thursday June 4, 1914.

Scale U. Series 79.

Mc 3263 Pole.

			Curve	Magn.	P.C.		Curve	Magn.
5			.	.	6.2	6.3 6.75 01	.	.
6			.	.	7.1	7.2 7.15 10	-0.13	7.02
8			.	.	8.6	8.6 8.60 00	-0.42	8.18
9			.	.	9.4	9.4 9.40 00	-0.57	8.83
10	5.4		3.74	9.14	9.7	9.5 9.60 11	-0.60	9.00
11	5.6		3.72	9.32	10.0		-0.66	9.34
12	5.1		3.71	9.41				
13	6.6		3.60	10.20				
14	6.9		3.56	10.46				
15	7.5		3.48	10.98				
16	7.7		3.46	11.16				
17	8.3	8.3 8.30 00	3.40	11.70				
18	8.6	8.6 8.60 00	3.40	12.00				
19	8.7	8.8 8.75 10	3.38	12.18				
20	9.4	9.3 9.350 1	3.36	12.71				
23	9.8?	9.8 9.800 0	3.37	13.17				
25	n.s.							
26								
27								

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1914phae.proj.10590

Thursday June 4. 1914.

Scale 11 Lookfield Series 79.

MC 3264 S Urs. Maj. Oct. +20

Alt. +20

				Curve	Magn.	P.C.			Curve	Magn.
a	3.5					7.4	7.4	7.40 00	−0.20	7.20
b	3.6					8.1	7.8	7.95 12	−0.31	7.64
c	4.1					8.4	8.5	8.45 01	−0.40	8.05
d	4.0					8.6	8.7	8.65 01	−0.43	8.22
e	3.4					8.4	7.9	8.15 23	−0.35	7.80
f	4.6					9.2			−0.54	8.66
(no g.)	~~g~~									
	g'	5.0				10.0			−0.66	9.34
	g²	4.8				10.0			−0.66	9.34
	g³	5.3		3.75	9.05	m.s.				
	h	5.5		3.73	9.23					
	k	6.1		3.58	10.28					
	l	6.5		3.62	10.12					
	m	7.4		3.49	10.48					
	n	7.7		3.47	11.17					
	o	8.6	8.6 8.60 00	3.39	11.99					
	h	8.7	8.6 8.65 10	3.38	12.03					
	h'	8.8	8.7 8.75 01	3.38	12.13					
	p	9.6	9.4 9.50 11	3.36	12.86					
	r	9.7	9.7 9.70 00	3.37	13.07					
	Var.	9.8		3.37	13.17					
	p	m.s.								

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Scale 2. Series 19. Copied BK 9: 130

Mc 3265 R Virginis 12 33 +7.5

G.C. alt +13

				Curve	Magn.					Curve	Magn.
a	B.			.	.	5.1	5.2	5.15	10	.	.
c	B.			.	.	~~4.6~~ 5.0	4.7	6.65	01	0.00	6.65
b	3.1			.	.	7.5	7.5	7.50	00	-0.22	7.28
d	3.7			.	.	7.6	7.7	7.65	01	-0.25	7.40
e	3.7			.	.	7.8	7.8	7.80	00	-0.29	7.51
f	3.8			.	.	8.6				-0.42	8.18
h	4.1			.	.	8.6				-0.42	8.18
g	4.6			.	.	8.6				-0.42	8.18
k	4.5			.	.	9.2				-0.55	8.65
l	4.7			.	.	9.4				-0.57	8.83
m	5.8			3.70	9.50	10.1				-0.67	9.43
n	5.9			3.69	9.59						ch W
o	6.4			3.63	10.03						
p	7.3			3.51	10.81						
q	7.4			3.50	10.90						
r	7.7			3.46	11.16						
s	8.4	8.3	8.35	01	3.48	11.75					
t	8.4	8.4	8.40	00	3.40	11.80					
u	8.9	8.8	8.85	10	3.38	12.23					
w	9.5	9.3	9.40	11	3.36	12.76					
x	9.6	9.6	9.60	00	3.36	12.96					
Var.	4.7					9.1					

ch W

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Thursday June 4. 1914.

Scale 11. Series 19. Spid Bk 9:135

MC 32 66 U Virginis 12 46 +6 1

Alt. +12

											Curve	Magn.
(off plate)	a											
	c	4.0						7.8	7.8	7.80 ∞	−0.29	7.51
	b	4.4						8.4	8.4	8.40 ∞	−0.40	8.00
	d	3.7						8.5	8.6	8.55 ± 0	−0.42	8.13
	e	4.5						8.9	8.8	8.75 ± 0	−0.46	8.29
	f	4.6						9.2	9.4	9.30 ± 1	−0.56	8.74
	g	4.1						9.4			−0.57	8.83
	k	5.4			3.74	9.14		10.0			−0.66	9.34
	h	5.5			3.73	9.23		10.0			−0.66	9.34
	m	5.8			3.70	9.50		1				
	n	6.3			3.64	9.94						ch W
	l	6.3			3.64	9.94						
	o	7.2			3.52	10.72						
	p	7.2	7.3	7.25 ∞	3.51	10.76						
	q	7.8			3.46	11.26						
	r	8.4	8.4	8.40 ∞	3.40	11.80						
	s	8.6	8.5	8.55 ∞	3.40	11.95						
	t	8.6	8.1	8.65 ∞	3.39	12.04						
	~~u~~	~~8.9~~										
	u	9.3	9.3	9.30 ∞	3.36	12.66						
	w	9.4	9.4	9.40 ∞	3.36	12.76						
	x	n.s.										
	y	n.s.										

ch W

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Thursday June 4, 1914

Scale -

Series 19.

Mc 3267 M3. alt +.21

	Mc 3267	curve	magn.	O.C.	curve	Magn.
α	4.6					
β	6.5	3.61	10.11			
		~~1.004~~	~~6.54~~			
γ	6.7	3.59	10.29			
		~~0.02~~	~~6.68~~			
δ	8.1	3.43	11.53			
		~~0.34~~	~~7.76~~			
ε	9.3	3.36	12.66			
		~~0.56~~	~~8.74~~			
ζ	8.6 8.6 8.60 :0	3.40	12.00	8.6 8.6 8.60 :0	-0.42	8.18
		~~0.42~~	~~8.18~~			
η	9.8 9.1 9.75 :1	3.37	13.12			
		~~0.60~~	~~9.15~~			
a	9.7 9.1 9.70 :0	3.37	13.07			
		~~0.62~~	~~9.08~~			
b	9.7 9.8 9.75 :0	3.37	13.12			
		~~0.62~~	~~9.13~~			
c	10.0 10.0 10.00 :0	3.37	13.37			
		~~0.65~~	~~9.33~~			
d	9.					

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Scale U

Series 79.

MC 3268 W Virginis

				Curve	Magn.	P.C.	mean	Curve	Magn.
α	4.2			.	.	1.6 1.7	7.65 01	−0.25	7.40
β	4.5			.	.	8.4 8.4	8.40 00	−0.40	8.00
γ	4.8			.	.	9.3 9.3	9.30 00	−0.56	8.74
a	5.3			3.75	9.05	9.5 9.6	9.55 10	−0.60	8.95
b	5.6			3.72	9.32	10.0 10.0	10.00 00	−0.65	9.35
c	6.8			3.57	10.37				dh W
d	6.6			3.60	10.20				
e	7.5			3.49	10.99				
f	6.6			3.60	10.20				
g	7.8			3.45	11.25				
h	8.5			3.40	11.90				
k	8.6	8.6	8.60 00	3.40	12.00				
l	9.4	9.2	9.30 11	3.36	12.66				
m	9.3	9.1	9.20 11	3.36	12.56				
n	9.5	9.5	9.50 00	3.36	12.86				
k'	6.3	6.3	6.30 00	3.60	9.90				
Var.	7.3								

dh W

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Thursday, June 4, 1914.

Scale U

4.07

Series 79

MC 3269

	Pole			PC		
5				6.6	6.8	6.70 11
6				7.4	7.4	7.400 00
8				8.9	8.8	8.85 10
9				9.4	9.4	9.400 00
10	5.7			9.7	9.8	9.75 10
11	6.3			def.		
12	6.5					
13	7.3					
14	7.7					
15	7.8					
16	8.4					
17	8.4	8.5	8.45 01			
18	8.8	8.8	8.800 00			
19	9.2	9.2	9.200 00			
20	9.5	9.4	9.45 10			
23	~~9.5~~ 10.0	9.9	9.95 01			
25						
26						
27						

Very poor plate.

4.12

W

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Thursday June 11, 1914.

Scale M. 10:05

N. S. Regions

~~Dec~~ I ~~339 31 / 5 8 5 0~~

D4 7-15 Copied

Preceding Images.

Alt. Cor. -0.18

		sc.1	sc.2		Curve	Magn.	C.C. sc.2			Curve Magn. "Reject"
	1	3.9 4.1	4.5	4.30 ± 2	.	.	8.9	8.8	8.85 1 0	.
too far from c.	2	t.p.	.	.	.	.	9.4	9.3	9.35 0 1	.
	3	4.3 4.5	4.8	4.65 ± 2	.	.	8.9	8.8	8.85 1 0	.
not comps.	4	4.6 4.8	5.3	5.05 ± 3	.	.	9.5	9.6	9.55 ± 0	.
W.S. (9 meas)	5	~~5.3~~ 5.6 5.5	5.5	5.50 0 0	2.48	7.98	~~9.5?~~	t.p.	.	.
	6	5.5 5.5 5.7	5.9	5.80 ± 1	2.49	8.29	±		.	.
	7	5.6 5.8	5.1	5.75 0 1	2.49	8.24	10.0?	10.0?		.
	8	5.6 5.8	~~6.3~~ 5.9	5.85 0 1	2.50	8.35	m.s.		.	.
	9	5.6 5.8	5.7	5.75 0 1	2.49	8.24				
	10	6.3 6.5	6.4	6.45 1 0	2.55	9.00				
	11	6.4 6.6	6.4	6.50 1 1	2.56	9.06				
	12	6.6 6.8	6.7	6.75 0 1	2.59	9.34				
	13	6.6 6.8	6.6	6.70 1 1	2.58	9.28				
	14	sc.2 7.5	7.5	7.50 0 0	2.72	10.22				
	15	7.5	7.6	7.55 ± 0	2.73	10.28				
	16	7.6	7.6	7.60 0 0	2.74	10.34				
	17	7.5	7.6	7.55 ± 0	2.73	10.28				
	18	7.6	7.5	7.55 0 1	2.73	10.28				
	19	7.6	7.7	7.65 0 1	2.75	10.40				
	20	8.1	8.1	8.10 0 0	2.87	10.97				
	21	8.3	8.3	8.30 0 0	2.94	11.24				
	22	8.5	8.6	8.55 ± 0	3.04	11.59				
	23	8.6	8.5	8.55 0 1	3.04	11.59				
m. unst.	24	8.1	8.1	8.70 0 0	3.11	11.81				
	25	8.9	9.1	9.00 ± 1	3.22 8	12.22 8				
	26	9.1	9.2	9.15 ± 0	3.37	12.52				

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Thursday June 11, 1914.

Scale M. U.S. Regions 31

I ~~28356~~ 33931 cont. 4-15

Curve Magn.

	27 sup.					
too early sup.	28					
	29	9.6	9.6	9.60	0.0	3.67 13.27
	30	9.9	9.9	9.90	0.0	3.90 13.80
	31 n.s.					

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1914phae.proj.10590

5'

Thursday June 11, 1914.

Scale m H. S. Regions 5'

I ~~28356~~ 33931 Polar Eqp. P.C.

	sc.1	sc.2	Mean	Resid.	Diff.	sc.2			Diff.
5						8.6	8.6	8.60	00 -2.11
6						~~9.8~~ 8.6	8.6	8.60	00 -1.49
8						9.9	9.9	9.90	00 -1.67
9						10.0?	10.0?	10.00?	00 -1.17
10	6.3 (6.5)	6.5	6.50	0	0 2.52				
11	6.6 (6.8)	6.8	6.80	0	0 2.75				
12	sc.2 7.3	~~7.2~~ 6.8	7.25	1	0 2.61				
13	7.6	7.6	7.60	0	0 2.70				
14	7.8	7.8	7.80	0	0 2.85				
15	8.2	8.3	8.25	0	1 2.83				
16	8.5	8.5	8.50	0	0 2.90				
17	8.6	8.6	8.60	0	0 3.03				
18	8.8	8.8	8.80	0	0 3.26				
19	8.9	9.1	9.00	1	1 3.42				
20	9.3	9.5	9.40	1	1 3.33				
23	9.6	9.7	9.65	0	1 3.69				
25	9.9	9.9	9.90	0	0 3.97				
26	~~1.~~	.	F	F	F				
27									

Checked L. June 27, 1914.

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1914phae.proj.10590

Thursday June 11, 1914.

Scale m. N. & Regions

I ~~28356~~ 33931 7-15

Following Images. Alt. Cor. -0.18

		sc.1	sc.2		Curve	Magn.	P.C.	sc.2	Curve	Magn.
									"Reject."	
	1	4.34	4.5	4.50 00	.	.	8.8	8.9		
t.p.	2	.		.	.	.	8.8	8.8		
	3	4.64	4.8	4.80 00	.	.	~~8.9~~ 9.4	9.5		
	4	5.35	5.4	5.45 10	.	.	9.6	9.5		
	5	5.35	5.5	5.50 00	2.48	7.98	9.5	9.6		
	6	5.65	5.1	5.78 01	2.49	8.24	9.9	9.9		
	7	5.6	5.8	5.6 5.70 11	2.49	8.19	J.			
	8	5.1	5.9	6.2 5.8 5.97 23	2.50	8.47				
	9	5.5	5.7	5.6 5.6 5.63 00	2.48	8.11				
	10	5.9	6.1	6.2 6.15 10	2.52	8.67				
	11	6.3	6.5	6.5 6.50 00	2.55	9.05				
	12	6.6	6.8	6.8 6.80 00	2.59	9.39				
	13			7.6 6.9 ~~7.25~~ 7.43	~~2.66~~	~~9.91~~				
	14			7.4 7.4 7.40 00	2.69	10.09				
	15			7.5 7.6 7.55 10	2.73	10.28				
	16			7.5 7.4 7.45 10	2.70	10.15				
	17			7.6 7.6 7.60 00	2.74	10.34				
	18			7.6 7.6 7.60 00	2.74	10.34				
	19			7.1 7.7 7.70 00	2.77	10.47				
	20			8.1 7.9 8.00 11	2.84	10.84				
	21			8.3 8.3 8.30 00	2.94	11.24				
	22			8.5 8.6 8.55 10	3.04	11.59				
	23			8.7 8.7 8.70 00	3.11	11.81				
	24			8.7 8.5 8.60 11	3.06	11.66				
	25			8.8 9.1 9.05 21	3.32	12.87				
	26			9.2 9.1 9.15 01	3.38	12.53				

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1914phae.proj.10590

Thursday June 11, 1914.

Scale m. H. S. Regions.

I ~~38356~~ 33931 7-15.

				Curve	Magn.
27	9.4	9.4	9.40 00	3.53	12.93
28	9.4	9.4	9.40 00	3.53	12.93
29	nearly	purs.	.	.	.
30	1.00	1.00	10.000	Hiv	14.00
31	~~1~~.				

11:11

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1914phae.proj.10590

Thursday June 11, 1914.

Scale m. H & Regions - 1'

I 36568 D4 1-15 Copied

Q.e. Alt. Cor. -0.18

	Sc.1	Sc.2			Curve	Magn.	Sc.2				Curve	Magn.
1	26.28	B.	28 a β		.	.	8.4	8.4	8.40	0 0	-0.79	7.61
tf 2	'		.		.	.	8.5	8.4	8.45	1 0	-0.78	7.67
3	34 36	B.	36 a β		.	.	8.4	8.5	8.45	0 1	-0.78	7.67
4	~~3.2~~ 34	B.	34 a β		.	.	8.6	8.6	8.60	0 0	-0.75	7.85
5	36 38	B.	38 a β		.	.	8.1	8.1	8.70	0 0	-0.72	7.97
6	39 41	44	4.25	1 2	4.51	8.76	sup? n.s.	.	.		~~-0.72~~	.
7	37 39	42	4.05	1 2	.	.	8.8	8.1	8.75	0 1	-0.72	8.03
8	36 38	43	4.05	2 3	.	.	sup.	.	.		.	.
9	36 38	41	3.95	2 1	.	.	9.1	9.2	9.15	1 0	-0.64	8.51
10	38 40	44	4.20	2 2	4.51	~~8~~.71	9.2	9.2	9.20	0 0	-0.63	8.57
11	43 45	46	4.55	1 0	4.51	9.06	tf.	.	.		.	.
12	47 49	48	4.85	1 0	4.50	9.35	10.0?		10.0?	0 0	-0.44	9.56 ?
13	46 48	52	5.00	2 2	4.50	9.50	n.s.	.	.		.	.
14	54 56	55	5.55	0 1	4.46	10.01						
15	54 56	51	5.65	0 1	4.45	10.10						
16	56 58	56	5.70	1 1	4.44	10.14						
17	56 58	58	5.80	0 0	4.43	10.23						
18	55 57	51	5.70	0 0	4.44	10.14						
19	58 60	62	6.10	1 1	4.39	10.49						
20	64 66	64	6.50	1 1	4.34	10.84						
21	64 66	61	6.65	0 1	4.31	10.96						
22	68 70	71	7.05	0 1	4.27	11.32						
23		73	7.25	1 0	4.25	11.50						
24		76	7.60	0 0	4.22	11.82						
25		76	7.65	0 1	4.21	11.86						
26		78	7.80	0 0	4.20	12.00						

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1914phae.proj.10590

Thursday June 11, 1914.

Scale m. — D. S. Regions. — 5'

I 36568 — 7-15

	sc.2	sc.2		Curve	Magn.
27	8.5	8.5	8.50 .00	H.20	12.70
28	8.4	8.3	8.35 .1	H.20	12.55
29	8.8	8.6	8.70 .11	H.22	12.92
30	9.2	9.4 9.3	9.30 .10	H.29	13.59
31	9.4	9.6	9.50 .1	H.33	13.83
32	9.7	9.1	9.70 .00	H.36	14.06
33	10.0	10.0	10.00 .00	H.42	14.42
34	5		5		5

Polar Seq. 7 — sc.1 sc.2 — P.C.

5					7.6 7.5	7.55 Diff. -1.06
6					8.0 7.8	7.90 -0.79
8					8.9 8.8	8.85 -0.74
9				Diff.	9.6 9.6 9.5	9.57 -0.84
low unit	10	4.5 4.7	5.1 4	H.70 H.32	9.4 9.6	9.50 -0.67
	11	4.6 4.8	5.2	5.00 H.55	· nearly surf.	
low unit	12	5.2 5.4	5.5	6.45 H.41	n.s.	
	13	5.7 5.9	5.1	5.80 H.50		
	14	6.2 6.4	6.3	6.35 H.30		
	15	6.4 6.6	6.6	6.60 H.48		
	16	6.7 6.9	7.2	7.05 H.35		
	17		7.5	7.5 7.50 H.13		
	18		7.8	7.8 7.80 H.26		
	19		8.3	8.4 8.35 H.07		
	20		8.6	8.5 8.55 H.18		
	23		9.1	8.9 9.00 H.34		
	25		9.5	9.6 9.55 H.32	Checked L. June 27, 1914	
	26		9.9	9.9 9.90 H.43		

12:09

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1914phae.proj.10590

Thursday, June 11, 1913.

Scale K. Remeasures of star m in M5.

Mc 5380 M5 For other measures see page 152

First measure P. 152

sc.2 sc.2

Mc 5421 - Scratch or streak?

m 9.6 9.5 9.7 9.60 ±.1 9.45.

Sat. June 13. Upon re-examination, I think 9.60 is more nearly correct, but I find star m is slightly brighter than star l.

Mc 5421 M5 See also page 182.

sc.2 P. 183

m 9.6 9.6 9.60 .. 9.90

~~June 13. 9.6 is more nearly correct. 9.90 must be wrong star or wrong reading. – Upon reexamination I think m is slightly brighter than l.~~

June 13. 9.6 is correct reading for star m on Mc 5421. First measure, on page 183, 9.90 must have been wrong star or wrong reading. There is a scratch or streak close to m which may have affected reading. On this plate l is brighter than m.

Definite condition of film near m makes the measure of so faint an image unsafe. Regret.

H.S.L. June 13, 1914.

m . . :
. . . : l

Measures of land m are difficult on these plates on account of their faintness and the crowded region. Enter magnitudes with ?

H.S.L. June 13, 1914.

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1914phae.proj.10590

Friday June 12, 1914.

Scale m. 12:15 — N. S. Regions 5' Plates. — 7h I 33937 — D+ 7-15° — April

Preceding Eqns. — Alt. Cor. -0.18

		Rec.			Curve	Magn.	O.C.		
	1	4.2	4.4	4.3	4.35 +0.0	.	.	8.1	8.1 "Reject."
too far from ma.	2	.	.	.	.	.	.	9.3	9.3
	3	4.6	4.8	4.8	4.80 0.0	.	.	~~9.6~~	def?.
	4	5.1	6.3	5.4	5.35 -1.0	.	.	9.5	9.5
	5	5.4	5.6	5.6	5.60 0.0	2.58	8.18	9.7	9.6
	6	5.6	5.8	5.8	5.80 0.0	2.61	8.41	9.8?	9.7
	7	5.6	5.8	5.7	5.75 -0.1	2.60	8.35	10.0	10.0
	8	6.1	6.3	6.4	6.35 -1.0	2.66	9.01	1.	.
	9	5.6	5.8	5.8	5.80 0.0	2.61	8.41		
	10	6.1	6.3	6.5	6.40 -1.1	2.67	9.07		
	11	6.4	6.6	6.5	6.55 -0.1	2.69	9.24		
	12	6.6	6.8	6.8	6.80 0.0	2.71	9.51		
	13	6.7	6.9	7.2	7.05 -1.2	2.75	9.80		
	14	6.8	7.0	7.2	7.10 -1.1	2.76	9.86		
	15			7.4	7.40 0.0	7.4 7.5	2.88	10.28	
	16			7.4	7.40 0.0	7.4	2.80	10.20	
	17			7.6	7.60 0.0	7.6	2.84	10.44	
	18			7.6	7.65 -0.1	7.7	2.85	10.50	
	19			7.7	7.65 -1.0	7.6	2.85	10.50	
	20	~~8.0~~		8.2	8.15 -0.1	8.1	2.96	11.11	
	21			8.3	8.30 0.0	8.3	2.99	11.29	
	22			8.5	8.45 -1.0	8.4	3.03	11.48	
	23			8.5	8.50 0.0	8.5	3.04	11.54	
	24			8.1	8.10 0.0	8.1	3.11	11.81	
	25			8.8	8.80 0.0	8.8	3.13	11.93	
	26			8.1	8.10 0.0	8.1	3.11	11.81	

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1914phae.proj.10590

Friday June 12, 1914.

Scale m. — N. S. Regions — 5' Plates.

I 33937 — D4 7-15°

					curve.	Magn.
	27	9.3	9.3	9.30 .00	3.28	12.58
too nearly pup.	28	.	.	.	.	.
	29	9.7	9.7	9.70 .00	3.41	13.11
	30	9.9	9.9	9.90 .00	3.47	13.37
	31	7.		7		7

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1914phae.proj.10590

Friday June 12, 1914.

Scale m. U.S. Regions 5' Plates-

I 33937

		sc.1	sc.2				sc.2	Diff.
Solar Eqn.	5						8.6	8.6 8.60 −2.11
	6						8.6	8.1 8.65 −1.54
	8						sup.	sup.
	9					Diff.	10.0	10.1 10.05 −2.22
	10	6.4	66	6.4		6.50 2.52	±	
	11	6.5	67	6.71		6.70 2.85		
	12	6.7	69		7.27.3	7.13 2.73		
	13			7.6	7.6	7.60 2.70		
	14			7.7	7.7	7.70 2.95		
	15			8.1	8.3	8.20 2.88		
	16			8.4	8.4	8.40 3.00		
	17			8.6	8.6	8.60 3.03		
	18			8.6	8.6	8.60 3.46		
	19	~~9~~		9.1	9.1	9.10 3.82		
	20			9.5	9.5	9.50 3.23		
	23	~~10.0~~		10.0	9.8	9.90 3.44		
	25			n.s.	±			
	26							

L. L. June 27, 1914

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1914phae.proj.10590

Friday June 12, 1914.

Scale. H. S. Regions. 8" Plates.

I 33937 D4 7-15

Following Images. Att. Cor. −0.18

					Curve	Magn.	B.C.	sec z	Curve Magn. "Reject."
	1	4.1	4.3	4.2	4.25	1.0	8.5	8.6	
	2							9.3	
	3	4.6	4.8	4.8	4.80	0.0		Image appears def.?	
	4	4.6	4.8	5.2	5.00	2.2	9.5	9.4	
	5	5.3	5.5	5.4	5.45	1.0	9.1	9.6	
wr. unit.	6	5.6	5.8	5.6	5.70	1.1	2.59	8.29	8.8 sup on bit glass.
	7	5.5	5.7	5.6	5.65	1.0	2.58	8.23	10.0 9.8
	8	6.1	6.3	6.2	6.25	1.0	2.65	8.90	1.
	9	5.5	5.7	5.8	5.75	1.0	2.60	8.35	
	10	5.8	6.0	6.3	6.15	2.1	2.64	8.79	
	11	6.6	6.8	6.3	6.55	2.3	2.69	9.24	
	12	6.6	6.8	6.6	6.70	1.1	2.71	9.41	
	13	6.6	6.8	6.6	6.70	1.1	2.71	9.41	
	14	6.6	6.8	6.9	6.85	0.1	2.72	9.57	
	15			7.4	7.4		2.80	10.20	
	16	6.6	6.8	7.4	7.10	2.3	2.76	9.86	
	17			7.5	7.50	0.0	2.82	10.32	
	18			7.5	7.50	0.0	2.82	10.32	
	19			7.6	7.60	0.0	2.84	10.44	
	20			7.6	7.70	1.1	2.86	10.56	
	21			8.1	8.00	1.1	2.91	10.91	
	22			8.2	8.25	0.1	2.97	11.22	
	23			8.4	8.85	0.1	3.00	11.35	
	24			8.1	8.70	0.0	3.11	11.81	
	25			8.6	8.65	0.1	3.09	11.74	
	26			8.6	8.65	0.1	3.09	11.74	

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1914phae.proj.10590

Friday June 12, 1914.

Scale m. H.S. Regions I' Plates.

I 33937 D4 7-15.

	sc.2	sc.2		Curve	Magn.
27	9.2	9.2	9.20.0	3.24	12.44
28	9.3	9.2	9.25.0	3.26	12.51
29	nearly Sup.	.	.	.	.
30	9.9	9.8	9.85.0	3.44	13.29
31	+	.	.	.	.

1.45

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1914phae.proj.10590

~~Data~~ Friday June 12, 1914.

Scale m. N. S. Regions. 1° Plate.

I 28356 D4 7-15° Copied

Preceding Exposure — Att. Cu. -0.18

		sc.1	sc.2		Curve.	Magn.	A.C.	sc.2		Curve.	Magn.
	1	4.2	4.4	4.4	0	0					
poor	2	4.4	4.6	4.6	a						
t.f.	3		4.3?	4.3	a						
	4	4.7	4.9	5.1	5.00	1	9.8	9.8	9.80	0	0
	5	5.3	5.5	5.5	5.50	0	9.9	9.8	9.85	1	0
	6	6.1	6.3	5.1	6.00	3	10.0		10.0	a	
	7	5.6	5.8	5.6	5.70	1	10.0?	10.0?	10.00	0	0
	8	6.1	6.3	6.2	6.25	1					
	9	5.6	5.8	5.6	5.70	1					
	10	6.3	6.5	6.4	6.45	1					
	11	6.5	6.7	6.6	6.65	1					
	12	6.6	6.8	7.3	7.05	2					
	13	6.9	7.1	7.3	7.20	1					
	14		7.1	7.6	5	10	1.6				
	15		7.8	7.7	0	1	1.6				
	16		7.6	7.6	5	0	1.1				
	17		7.9	8.0	0	1	8.1				
	18		7.7	7.7	0	0	7.7				
	19		8.1	8.1	0	0	8.1				
	20		8.3	8.3	5	1	0	8.4			
	21		8.5	8.5	8	1	0	8.6			
	22		8.6	8.6	0	0	8.6				
	23		8.9	8.7	5	1	2	8.6			
	24		9.4	9.8	0	1	1	poor	9.2		
	25		9.3	9.2	5	1	0	9.2			
	26		9.5	9.4	5	1	0	9.4			

A.C.	sc.2			Curve.	Magn.
9.2	9.3	9.25	0	1	2.91 - 1.85 7.40
9.2	9.3	9.25	0	1	2.91 - 1.85 7.40
9.7	9.6	9.65	1	0	3.05 - 1.58 8.07
9.8	9.8	9.80	0	0	3.11 - 1.51 8.29
9.9	9.8	9.85	1	0	3.12 - 1.49 8.36
10.0		10.0	a		3.19 - 1.42 8.58
10.0?	10.0?	10.00	0	0	3.19 - 1.42 8.58 2

Star sc.2

17 7.9

18 7.8

Foll. Exp.

17 7.8

18 7.7 — measure 8.2 on P. 220

must be wrong star.
certainly not as faint as 8.2.
D. Apr. 30, 1915

Images on this plate not comparable with scale.

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1914phae.proj.10590

Friday June 12, 1914.

Scale M. — H. S. Regions — 5' Plate.

I 28356 — D4 — 1-15.

Preceding Exposure cont.

	sc.1	sc.2		Curve	Magn.	P.C.
27	~~9.8~~ sup.	sup.			R	
28	~~sup.~~	sup.			R	
29	~~9.9~~ sup.	9.8	9.85 10	3.12	~~12.977~~ F	
30	F.					
31						O.C. sc.2
Polar Exp. 1	sc.1	sc.2				Mean. Diff.
5						8.6 8.6 8.60 -2.11
6						8.8 8.9 8.85 -1.74
8						9.8 9.8 9.80 -1.57
9				Mean	Diff.	F.
10	6.466		-6.665	6.60	2.42	
11	6.9 7.0	1.2	7.2	7.13	2.42	
12		1.4	1.5	7.45	2.41	
13		1.8	1.9	7.85	2.45	
scratched. 14		.	.	.	.	
15		8.5	8.5	8.50	2.58	
16		8.6	8.7	8.65	2.75	
17		8.1	8.8	8.75	2.88	
18		9.3	9.2	9.25	2.81	
19		9.6	9.5	9.55	2.87	
20		9.7	9.6	9.65	3.08	
23		n.g.				
w.s. 25		~~10.1?~~				
26						
27						
28						

ch. L. June 27, 1914.

Images poor — elongated.

8.2. 1915

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1914phae.proj.10590

Friday June 12, 1914.

Scale m — N. S. Regions.

I 38356 cont. A4 7-15

Following Exposure O.C. Alt. Corr. -0.18

	Sc.1	Sc.2		Curve	Magn.	Sc.2			Curve	Magn.
1	4.3	4.5	4.5	.	.	9.2	9.2	9.20 .0	-1.77	7.43
2	.	.	.	.	.	9.3	9.3	9.30 .0	-1.75	7.55
3	4.7	4.9	5.3 5.10 .2	.	.	9.4	9.4	9.40 .0	-1.69	7.71
4	4.8	5.0	5.0	.	.	9.8	9.6 poor	9.70 .0	-1.65	8.05
5	5.4	5.6	5.6	.	.	9.9	9.8	9.85 .1	-1.49	8.36
6	5.6	5.8	5.9 5.85 .1	.	.	10.0	10.0	10.00 .0	-1.41	8.59
7	5.6	5.8	5.80 .0 5.8	.	.	10.0	10.0	10.00 .0	-1.51	8.59
8	5.8	6.1	6.3 6.2 6.4 6.3	2.31	8.56	10.0?		10.0?	-1.51	8.59 ?
9	5.5	5.7	6.6 5.1 5.6	.	.	10.0?		10.0?	-1.51	8.59 ?
10	6.2	6.4	6.35 .1 6.3	2.33	8.68					
11	6.5	6.7	6.70 .0 6.7	2.36	9.06					
12		7.4	7.40 .0 7.4	2.45	9.85					
13	6.8	7.0	7.15 .2 7.3	2.42	9.57					
14		7.6	7.60 .0 7.6	2.47	10.07					
15		7.6	7.65 .0 7.7	2.48	10.13					
16		7.6	7.60 .0 7.6	2.47	10.07					
17		7.9 8.2	7.90 .0 7.9	2.52	10.42					
18		8.2	8.00 .2 7.8	2.54	10.54					
19		8.1	8.10 .0 8.1	2.56	10.66					
20		8.4	8.40 .0 8.4	2.64	11.04					
21		8.4	8.40 .0 8.4	2.64	11.04					
22		8.6	8.60 .0 8.6	2.69	11.29					
23		8.7	8.65 .1 8.6	2.71	11.36					
24		9.3	9.30 .0 9.3	2.93	12.23					
25		9.2	9.20 .0 9.2	2.89	12.09					
26		9.4	9.40 .0 9.4	2.97	12.37					

O.C. Ident. not certain

W.S.

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Friday June 12, 1914.

Scale M. H. S. Regions.

I 28356 cont.

	sc.2			Curve	Magn.
27	9.5	9.5	9.50 00	3.00	12.50
28	9.1	9.1	9.70 00	3.07	12.77
29	sup.	sup.	.	.	.
30	10.1	10.1?	10.1 00	.	.
31					

2:46

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