

KG

11366

033

Observing Book 8

J. C. M.



PG 11366 - 033









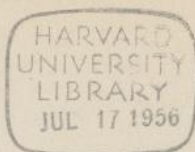






2

MG 11366.032







March 26, 1919

S.g. A2 Correction for Distance

Scale M. MC 14828

1<sup>st</sup>

2<sup>nd</sup>

1

2

3

4 off plate

5

6

7

7a

8

8a

8b

9

10

11

12

13

14

15

15a

16

17

17a

18

19

20

21

21a

22

23

24

24b

6a





6

YellowMarch 20, 1919

		Series 692		65	9 01 + 14.9
71.		B 52616		P.C.	
8	40	1 <sup>st</sup>	2 <sup>nd</sup>	2 <sup>nd</sup>	
		1 3.8		}	
		2	5.4		
		4 5.7	5.0 5.7		
		5	6.8		
		6	7.8		
		8	8.0		
		9	7.0		
		10	8.2		
		12	8.8		
		13	8.8		
		15	8.9		
		16	9.5		
		12a	9.2		
		4a	6.0		
		<del>17</del>	<del>10.0</del>		
		18	10.0		
		19	-		



	$\frac{g}{2nd}$	$\frac{h}{2nd}$
1	8.3	8.4
2	-	-
4	9.8	9.9
-		

March 20, 1919

Series 692		E 4	9	20	- 45.0
Scale N.	B 52617		P.C.		
	1 <sup>st</sup>	2 <sup>nd</sup>	2 <sup>nd</sup>		
1		-			
2		4.7			
3		5.2			
4	5.0				
5	4.0				
6		5.9			
7		5.8			
8		7.3			
9		7.8			
10		8.2			
11		8.3			
12		8.2			
13		5.8			
14		7.2			
15		8.8			
16		9.7			
17		9.3			
18		9.9			
19		8.5			
20		-			



	$\frac{g}{2nd}$	$\frac{h}{2nd}$
1	7.7	7.9
2	10.0	10.0
3	-	-
4	9.0	9.2
5	8.8	8.9
6	-	-
7		
8		

March 20, 1919

Series 692		R R 1 Hydras 9 41 - 23.6		
Scale N.	B 52618			
	1 <sup>st</sup> 2 <sup>nd</sup>			
a	5.6			
a'	6.0			
b	7.2			
b'	8.2			
d	7.8			
e	8.8			
e'	10.0			
d'	9.5			
f	-			
g	-			
k				
l				
var.	9.7			



March 20, 1919

Series 692

Z Helium 9 50 - 53.8

Scale IV.

B52619

	1 <sup>st</sup>	2 <sup>nd</sup>
a		4.9
b		5.9
c		6.7
d		6.8
e		7.5
f		7.8
g		8.3
h		9.0
k		9.2
l		9.5
m		10.0
n		-
o		

$\frac{g}{2^{nd}}$	$\frac{h}{2^{nd}}$
9.9	9.7

March 20, 1919

Series 692

E 5

12 00 - 45.0

Scale N.

B 52623

1<sup>st</sup>2<sup>nd</sup> $\frac{g}{2nd}$  $\frac{h}{2nd}$ 

1 4.4 5.0

9.7

9.4<sup>8</sup>ws

2 4.7 4.5

9.0

9.4<sup>8</sup>

3 5.7

4 4.0

5 5.7

6 5.2

7 5.2

8 6.2

9 7.0

10 7.5

11 7.7

12 8.7

13 6.2

14 8.8

15 9.8

16 7.6

17 -

18 9.2

19 9.9

20 9.3

21 10.0



Series 692

Southern Cross 12 21 -63.6

Scale N

B52624

2<sup>nd</sup>2<sup>nd</sup>

1 8.8 8.7

2 9.8 9.7

3 8.5 8.3

4 10.0 10.0

5 - -

6 - -

7 - -

8 9.9 9.8

March 20, 1919

Scale N	Series 69.2		South Pole		12	21	-90.0
	B52625		$\frac{g}{2nd}$	$\frac{h}{2nd}$			
	1st	2nd					
a		4.0	w.u.	8.6	8.5		
b		4.5		9.5	9.2		
c		4.8		9.6	9.7		
d		5.8		10.0	10.0		
e		5.8					
f		5.8					
g		5.8					
h		4.8					
k		7.6					
l		8.2					
m		8.8					
n		-					
o		9.2					
p		10.0					



March 20, 1919

Series 692

Coal Sack 12 51 - 62.6.

Scale IV. B52626

~~1st~~  
2nd

2nd

1	8.5	8.2
2	9.8	9.7
3	9.8	9.8
4	9.2	9.2
5	9.5	9.6
6	10.0	10.0
7		

March 20, 1919

Series 692		C7		13	01	+14.9
Scale IV	B52627					
	1 <sup>st</sup>	2 <sup>nd</sup>				
	1	4.0		8.0	7.8	
	2	—	5.0	-10.0	10.0	
	3		6.0			
	4		6.0			
	5		6.0			
	6		7.0			
	7		7.0			
	8		8.4			
	9		8.7			
	11		7.9			
	12		8.8			
	13		10.0			
	15		—			
	16		10.0			
	17					
	19					

10 45





March 26, 1919

main seg. ins  
center.

Seg. A2.

Corrections for Distances

9 35	MC 14828			P.C.	Diff.
Scale M.	1 <sup>st</sup>	2 <sup>nd</sup>	Diff.	2 <sup>nd</sup>	
1 B			.	7.6	-0.61
2 1.0 <sup>1.2</sup>			6.06	7.3	-0.04
3 1.5 <sup>1.7</sup>			5.74	7.2	+0.24
4 off plate			.	-	.
5 2.0 <sup>2.2</sup>			5.84	8.0	+0.04
6 2.0 <sup>2.2</sup>			5.94	8.2	-0.06
6a 2.0 <sup>2.2</sup>			.	8.3	.
7 -			.	-	.
7a 3.0 <sup>3.2</sup>			5.26	8.8	-0.34
8 2			.	-	.
8a 3.5 <sup>3.7</sup>	3.85	4.0	5.03	9.8	-1.00
8b 3.2 <sup>3.4</sup>			5.75	9.8	-0.65
9 3.5 <sup>3.7</sup>			5.45	9.5	-0.35
10		4.0	5.24	9.6	-0.36
11		5.2	4.68	-	.
12		5.3	4.62	-	.
13		5.6	4.69	-	.
14		5.8	4.59		
15		6.0	4.64	21. 7.8	4.32
15a		7.2	3.55	21a. 8.1	4.00
16		6.0	4.75	22. 8.7	3.98
17		6.1	4.72	23. -	.
17a		6.9	4.62	24. -	.
18		7.2	4.48	24b. 8.5	.
19		7.8	4.23		
20		7.5	4.31		



	$\frac{g}{2 \text{ mls}}$	$\frac{h}{2 \text{ mls}}$		Diff.
1	5.8	5.8	5.80	1.19
2	6.2	6.5	6.35	0.91
3	6.2	6.1	6.15	1.29
4	off plate.			.
5	6.5	7.0	6.75	1.29
6	7.0	off plate		1.14
6a	7.5	7.6	7.55	.
7	-	-		.
7a	7.9	7.8	7.85	0.61
8	-	-		.
8a	8.5	8.5	8.50	0.38
8b	8.7	8.5	8.60	0.55
9	8.7	8.4	8.55	0.60
10	8.8	8.8	8.80	0.44
11	9.5	9.2	9.35	0.53
12	9.7	9.7	9.70	0.22
13	9.8	9.8	9.80	0.49
14	-	-		

Expos on shut.

March 26, 1919

Boiner seq.

MC 14828		Curr Magn.															
Scale M.	1 <sup>st</sup>	2 <sup>nd</sup>			g <sub>2nd</sub>	h <sub>2nd</sub>	Curr Magn.	P.C	2 <sup>nd</sup> Curr Magn.								
101	2.0 <sup>2.2</sup>		5.77	7.97	7.5	7.55	7.6	0.78	8.3 <sup>3</sup>	8.0	-0.10	7.90					
102	2.8 <sup>3.0</sup>	4.0	5.51	8.51	8.8	8.65	8.5	0.51	9.16	9.7	-0.65	9.05					
103	3.0 <sup>3.2</sup>		5.45	8.65	8.6	8.80	9.0	0.48	9.28	9.8	-0.67	9.13					
104	3.2 <sup>3.4</sup>		5.38	8.78	7.7	7.85	8.0	0.71	8.56	9.2	-0.43	8.77					
105		4.0	5.15	9.15	10.0 <sup>1000</sup>	10.0	0.27		10.27								
106		4.7	4.92	9.62													
107		6.0	4.8 <sup>6</sup> 3	10.63													
108		6.0	4.8 <sup>6</sup> 3	10.63													
109		6.2	4.60	10.80													
110		6.5	4.56	11.06													
111		6.8	4.50	11.30													
112		7.8	4.33	12.13													
113		8.2	4.25	12.45													
114		8.9	4.06	12.96													



March 26, 1919.

Copper seg.

MC 14828		Crown Magn.		Crown Magn.		P.C.	
Scale M	1 <sup>st</sup>	2 <sup>nd</sup>	2 <sup>nd</sup>	2 <sup>nd</sup>	2 <sup>nd</sup>	2 <sup>nd</sup>	2 <sup>nd</sup>
201	2.8 <sup>3.0</sup>	5.50	8.50	7.8	7.70	7.6	0.75 8.45 8.8 -0.30 8.70
201a	3.7 <sup>3.9</sup>	5.20	9.10	8.8	8.75	8.7	0.49 9.24 9.8 -0.66 9.14
202	3.0 <sup>3.2</sup>	5.45	8.65	8.3	8.25	8.2	0.60 8.85 9.3 -0.48 8.82
203		4.2	5.08	9.2	9.10	9.0	0.43 9.53 -
204	3.7 <sup>3.9</sup>	5.20	9.10	9.0	8.85	8.7	0.48 9.33 -
205		5.0	4.82				
206		5.8	4.67				
207		6.0	4.65				
208		6.7	4.51				
209		6.7	4.51				
210		7.0	4.48				
211		6.8	4.50				
212		8.6	4.13				
212a		8.7	4.11				
213		9.2	.				

March 26, 1919

: Corner seg.

Scale M.	MC 14828		Curr Magn.	$\frac{g}{g}$	$\frac{h}{h}$	Curr Magn.	P.C.
	1 <sup>st</sup>	2 <sup>nd</sup>		2 <sup>nd</sup>	2 <sup>nd</sup>		
301		4.2	5.08	9.28	9.89.75	9.7 0.31 10.06	-
302		4.9	4.85	9.75	10.01000	10.0 0.27 <u>10.27</u>	-
303		6.0	4.63	10.63			
304		5.0	4.82	9.82			
305		6.0	4.63	10.63			
306		6.7	4.52	11.22			
307		6.2	4.60	10.80			
308		6.9	4.50	11.40			
309		7.1	4.47	11.57			
310		7.0	4.48	11.48			
311		9.0	.				
312		9.8	.				



March 26, 1919.

Cowan seq.

MC 14828								PC.			
1 <sup>st</sup>	2 <sup>nd</sup>	Cowan Magn.		g	<u>h</u>	2 <sup>nd</sup>	2 <sup>nd</sup>	Cowan Magn.		2 <sup>nd</sup>	Cowan Magn.
401 2.0 <sup>2.2</sup>		5.77	7.97	8.6	7.50	7.4	0.80	8.30	8.5	-0.22	8.28
402 2.0 <sup>2.2</sup>		5.77	7.97	8.7	8.75	8.8	0.49	9.24	9.8	-0.66	9.14
403 3.5 <sup>3.6</sup>		5.31	8.91	9.2	9.20	9.2	0.40	9.60			
404	4.8	4.89	9.69	9.9	9.85	9.8	0.30	<u>10.15</u>			
405	5.5	4.71	10.21								
406	5.2	4.77	10.97								
407	6.2	4.60	10.80								
408	6.2	4.60	10.80								
409	7.2	4.45	11.65								
410	7.2	4.45	11.65								
411	8.0	4.29	12.29								
412	8.5	4.15	12.65								
413	9.5										

10 55

March 27, 1919

Sheet no. 197

Scale M.

Series 650

61

1 01 +15.1

		1 <sup>st</sup>	2 <sup>nd</sup>	diff.
9	50	1	4.2	2.98
		2	4.4	2.99
		3	4.3	3.20
		4	4.5	3.46
		5	5.7	2.63
		9	6.5	2.78
		11	6.8	2.89
		12	6.8	3.22
		14	7.6	3.02
		15	7.9	3.14
		16	8.0	3.20
		17	8.2	3.30
		18	8.6	3.34
		19	8.9	3.31
		20	9.2	3.42
		21	9.5	3.42
		24	-	.
		7a	6.0	2.86
		13a	7.2	<sup>2.95</sup> <del>3.24</del> 3.24
		18a	8.5	.
		6a	5.5	.

P.C.  
2<sup>nd</sup> diff.  
8.7 -1.52  
9.0 -1.61  
9.2 -1.70  
9.2 -1.24  
9.8 -1.47

Badly streaked.



	$\frac{g}{2_{\text{rel}}}$	$\frac{b_{\text{rel}}}{2_{\text{rel}}}$	
1	7.6	7.6 <sup>00</sup>	7.6 -0.42
2	7.8	7.8 <sup>00</sup>	7.8 -0.41
3	7.9	7.8 <sup>50</sup>	7.8 -0.35
4	8.5	8.3 <sup>5</sup>	8.2 -0.39
5	8.6	8.6 <sup>00</sup>	8.6 -0.27
9	9.2	9.2 <sup>5</sup>	9.3 +0.03
7a	9.0	8.9 <sup>01</sup>	8.8 -0.04
13a	10.0	-	+0.44
11	9.8	9.7 <sup>5</sup>	9.7 -0.06
6a	8.8	9.0 <sup>00</sup>	9.2 .
12	10.0	10.0 <sup>00</sup>	10.0 +0.02

March 27, 1919

Copied Bto 44:10

Scale M.

Series 650

S Tucanae

0 19 - 62.5

B52120

P.C alt. cor. -10

	1 <sup>st</sup>	2 <sup>nd</sup>	cu	magn.
a		6.0	294	8.94
b		6.8	298	9.78
c		7.0	300	10.00
d		7.5	307	10.57
e		7.5	307	10.57
<del>f</del>				
f		8.0	316	11.16
g		8.7	324	11.94
h		8.9	325	12.15
i		9.0	326	12.26
l		9.7	330	<u>13.00</u>
m		<sup>10.0</sup> <del>9.0</del>	330	<u><u>13.30</u></u>
n				



Copied

	$\frac{g}{2}$ 2nd	$\frac{h}{2}$ 2nd		Cu. magn.	
a	8.8	8.8 <sup>0</sup>	8.8	-0.15	8.65
b	9.2	9.3 <sup>0</sup>	9.4	-0.10	9.20
c	9.8	9.8 <sup>0</sup>	9.8	-0.12	<u>9.68</u>
d					
e					
f					
g					

28

March 27, 1919

Small mag. Eld.

~~47~~  
T I. ~~Lucas~~ 0 28-72.5

Scale M

Series 650

B52121

P.C alt. cor. -25

	1 <sup>st</sup>	2 <sup>nd</sup>	cu. mag.
Sig. I			
h		7.0	3.00 10.00
K		7.5	3.07 10.57
l		8.0	3.16 11.16
m		8.1	3.18 11.28
o		8.8	3.24 12.04
p		9.0	3.25 12.25
a		4.5	3.08 7.58

Copied Bl 44, 20

2<sup>nd</sup> cu. mag.

Copied Bl 44, 27

8.5 -166

6.84 Copied 44, 27



$\frac{g}{2nd}$	$\frac{h}{2nd}$	cu. mag
-	-	4.

a 7.5 7.40 7.3 -0.30 7.10

Copied Bk 44, 27

March 27, 1919

C. Fred B. H. H. 42

Scale M.

Series 650

S. Gal. Pole.

0 40 - 28.0

B 52122

P.C. alt. cor + 0.6

1 <sup>st</sup>	2 <sup>nd</sup>	cu. magn.	
1	4.2	3.14	7.34
2	5.8	2.95	8.75
3	6.8	2.98	9.78
4	7.0	3.00	10.00
5	7.7	3.12	10.82
6	7.9	3.15	11.05
7	8.6	3.23	11.83
8	8.7	3.23	11.93
9	9.0	3.26	12.26
10	-		
92	9.5	3.29	12.79

2<sup>nd</sup> cu. magn.  
9.8 -1.50 = 8.30



Copied.

	$\frac{p}{2nd}$	$\frac{p}{2nd}$	cu. mag.	
1	8.5	8.500	8.5	-0.18 8.32
2	9.2	9.301	9.4	-0.11 9.19
3	-			
4				
5				

32

March 27, 1919

Scale M.

Series 650

Small mag. lcl.

B52.123

 $\frac{P.C.}{2nd}$ 

alt. corr. - 29

Seq. II

	1st	2nd	av. mag.	
g	6.8	298	9.78	
h	7.0	300	10.00	
k	7.6	310	10.70	
l	7.7	312	10.82	
m	8.2	319	11.39	
n	8.2	319	11.39	
o	8.8	324	12.04	
p	9.1	326	12.36	
q	9.5	329	12.79	
r	10.0	330	<u>13.30</u>	

Copied Bk 44, 31

			av. mag.	
a	4.0	317	7.17	
b	4.2	313	7.33	
c	5.0	301	8.01	
d	5.5	297	8.47	
e	5.7	296	8.66	
f	6.0	294	8.94	

Copied Bk 44, 27

			av. mag.	
	8.6	-1.66	6.94	
	8.8	-1.63	7.17	
	9.5	-1.54	7.96	

Copied Bk 44, 27



$\frac{g}{\lambda_{ind}}$        $\frac{h}{\lambda_{ind}}$

(

cu magn.

a	7.0	7.0 <sup>00</sup>	7.0	-0.32	6.68
b	7.2	7.1 <sup>5</sup>	7.1	-0.31	6.84
c	8.0	sup.		-0.23	7.77
d	8.6	8.5 <sup>5</sup>	8.5	-0.18	8.37
e	9.0	def.		-0.12	8.88
f	9.9	9.8 <sup>0</sup>	9.7	-0.11	<u>9.69</u>

Copied Bls 44:29  
April 2, 1921

March 27, 1919

Copied Bk 35:102

Series 650

Carte

1 01 - 31.5

Scale M. B 52124

P.C. alt con + .06

	1 <sup>st</sup>	2 <sup>nd</sup>	cu. mag.
1		5.0	3.01 8.01
2		5.8	2.95 8.75
3		6.6	2.96 9.56
4		7.0	3.00 10.00
5		7.9	3.14 11.04
6		8.1	3.17 11.27
7		8.4	3.20 11.60
8		8.5	3.22 11.72
9		8.9	3.25 12.15
10		9.1	3.26 12.36
11		9.7	3.30 <u>13.00</u>
12		9.9	3.30 <u>13.20</u>
13		10.0	3.30 <u>13.30</u>

2<sup>nd</sup> cu. mag.  
9.8 -1.50 8.30



	$\frac{g}{2nd}$		$\frac{h}{2nd}$		Cor. magn.
1	8.6	8.6 <sup>00</sup>	8.6	-0.18	8.42
2	9.0	8.9 <sup>00</sup>	8.8	-0.14	8.76
3	-				
4					
5					

March 27, 1919

Copied Bk 34:34

Series 650

141 K

1 03 -29.7

Scale M. B52126

P.C. alt cor +0.5

1<sup>st</sup>2<sup>nd</sup>

av. magn

2<sup>nd</sup>

av. magn.

1	5.0	3.01	8.01
2	5.7	2.96	8.66
3	5.8	2.95	8.75
4	6.0	2.94	8.94
5	7.2	3.02	10.22
6	7.5	3.08	10.58
7	8.0	3.17	11.17
8	8.1	3.17	11.27
9	8.2	3.19	11.39
10	8.0	3.16	11.16
11	8.6	3.23	11.83
12	9.0	3.25	12.25
13	9.0	3.25	12.25
14	9.6	3.29	12.89

10.0 -1.47 8.53



Copied

	$\frac{g}{2nd}$	$\frac{h}{2nd}$	cu magn.	
1	8.6	8.55	8.5	-0.18 8.37
2	9.4	9.30	9.2	-0.11 9.19
3	9.7	9.70	9.7	-0.12 <u>9.58</u>
4	9.8	9.75	9.7	-0.12 <u>9.63</u>
5				

March 27, 1919

Series 650

Sun. Mag. Cld. 1 05 -74.5

B52127

P.C. alt. con. -30

Scale M.

1<sup>st</sup>2<sup>nd</sup>

cu. magn.

2<sup>nd</sup>

cu. magn.

a

4.0 3.17 7.17

b

4.5 3.08 7.58

c

4.8 3.04 7.84

d

5.5 2.97 8.47

e

5.7 2.95 8.65

f

5.8 2.95 8.75

Seq. II

g

6.7 2.97 9.67

h

7.0 3.00 10.00

i

7.2 3.03 10.23

l

7.7 3.12 10.82

m

8.2 3.19 11.39

n

8.5 3.22 11.72

o

8.8 3.24 12.04

p

8.5 3.29 12.79

q

9.8 3.30 13.10

r

9.8 3.30 13.10

Seq. III

g<sup>3</sup>

6.7 2.97 9.67

h<sup>3</sup>

6.8 2.98 9.78

i<sup>3</sup>

6.9 2.99 9.89

l

7.2 3.02 10.22

m

7.6 3.10 10.70

n

8.0 3.16 11.16

o

8.2 3.19 11.39

p

8.7 3.23 11.93

q

9.0 3.26 12.26

r

9.2 3.27 12.47

Copied Bk 44, 27

Copied Bk 44, 31

Copied Bk 44, 27



	$\frac{g}{2nd}$	$\frac{h}{2nd}$	ac. magn.	
a	7.0	7.0% 7.0	-0.32	6.68
df. b	7.2	7.2% 7.2	-0.31	6.89
c	8.2	sup.	-0.21	7.99
d	9.3	9.3% 8.7	-0.13	8.87
e	9.7	9.6% 9.5	-0.12	9.48
f	-	10.0	-0.12	<u>9.88</u>
g	-	-		

Copied Bk 44: 27

March 27, 1919

Copied B6 44:48

Series 650		U Tucanae		1 05 -74.5	
Scale M.	B52127	P.C. alt. cor -30			
	1st	2nd	2nd		cu
var. n.s.					
a	4.7	3.06	7.76	9.3 -1.56	7.74
b	5.0	3.01	8.01	9.8 -1.50	8.30
c	5.8	<sup>2.95</sup> <del>3.45</del>	8.75		
d	6.0	2.94	8.94		
e	7.0	3.00	10.00		
f	7.5	3.08	10.58		
g	8.0	3.16	11.16		
h	8.2	3.20	11.40		
k	8.7	3.23	11.93		
l	8.8	3.24	12.04		
m	9.5	3.29	12.79		
n					
o					



Copied

	$\frac{g}{\text{2nd}}$	$\frac{h}{\text{2nd}}$	cu	magn
a	7.8 $7.90$ $\frac{1}{2}$	8.0	-0.26	7.64
b	8.5 $8.60$ $\frac{1}{2}$	8.7	-0.17	8.43
c	8.8	diff.	-0.14	8.66
d	9.8 $9.800$ $\frac{0}{0}$	9.8	-0.12	<u>9.68</u>

March 27, 1919

Copied Dec 45:712

Scale M.

Series 650

South Pole

B52128

P.C. alt cor - 92

1 <sup>st</sup>	2 <sup>nd</sup>	cu magn		2 <sup>nd</sup>	cu magn	
a <sup>3.20</sup> 3.0		.	.	7.8	.	.
b	4.0	3.17	7.17	8.8	-1.63	7.17
c	4.0	3.17	7.17	8.8	-1.63	7.17
d	4.2	3.13	7.33	9.0	-1.60	7.40
e	4.7	3.05	7.75	9.2	-1.57	7.63
f	5.7	2.96	8.66	9.9	-1.48	<u>8.42</u>
g	5.8	2.95	8.75			
h	6.2	2.94	9.14			
k	6.5	2.96	9.46			
l	6.8	2.98	9.78			
m	6.9	2.99	9.89			
n	7.0	3.00	10.00			
o	7.6	3.10	10.70			
p	8.0	3.16	11.16			
q	8.0	3.16	11.16			
r	8.0	3.16	11.16			
s	8.5	3.22	11.72			
t	8.2	3.19	11.39			
v	8.7	3.23	11.93			
w	9.0	3.26	12.26			
x	9.8	3.30	<u>13.10</u>			



Copied

$\frac{g}{l}$ 2nd	$\frac{g}{l}$ 2nd	cu. mag
a 6.6	6.70, 6.8	-0.33 6.37
b 7.2	7.30, 7.4	-0.30 7.00
c 7.7	7.60, 7.5	-0.27 7.33
d 7.8	7.80, 7.8	-0.26 7.54
e 7.8	7.90, 8.0	-0.25 7.65
f 8.2	8.35, 8.5	-0.20 8.15
g 8.8	8.75, 8.7	-0.15 8.60
h 9.2	9.20, 9.2	-0.10 9.10
k 9.5	9.55, 9.6	-0.12 9.43
l -	-	-

March 27, 1919

Copied B 27.21

Series 650

D2

3 00 -14.9

B 52129

P.C. alt. con +07

Scale M.

1st	2nd	cu. mag.	
3.9			
1 3.7		3.19	7.09
2 3.4	4.0	3.17	7.17
3 3.2			
4	4.7	3.05	7.75
5	4.5	3.09	7.59
6	5.0	3.02	8.02
7	5.0	3.02	8.02
8	5.0	3.02	8.02
9	5.8	2.95	8.75
10	5.7	2.96	8.66
11	6.0	2.94	8.94
12	6.0	2.94	8.94
13	6.6	2.96	9.56
14	6.8	2.98	9.78
15	7.2	3.03	10.23
16	7.7	3.12	10.82
17	7.8	3.13	10.93
18	8.1	3.17	11.27
19	8.2	3.19	11.39
20	8.6	3.23	11.83
21	8.8	3.24	12.04
22	9.2	3.27	12.47
23	9.6	3.29	12.89
24	9.7	3.30	13.00
17a	8.0	3.30	11.30

2nd cu. mag.

9.0 -1.60 7.40

supr.

9.0 -1.60 7.40

9.9 -1.48 8.42

9.3 -1.57 7.73

10.0 -1.47 8.53

10.0 -1.47 8.53

-



Copied

	$\frac{g}{2}$ nd	$\frac{b}{2}$ nd	cu. mag	
1	7.6	$7.40 \pm 7.2$	-0.27	7.13
2	8.0	$7.90 \pm 7.8$	-0.25	7.65
3	7.9	$7.85 \pm 7.8$	-0.26	7.59
4	8.2	$8.10 \pm 8.0$	-0.23	7.87
5	8.0	$8.00 \pm 8.0$	-0.24	7.76
6	8.8	$8.75 \pm 8.7$	-0.15	8.60
7	8.8	$8.75 \pm 8.7$	-0.16	8.59
8	8.8	$8.90 \pm 9.0$	-0.14	8.76
9	9.2	$9.20 \pm 9.2$	-0.11	9.09
10	9.8	$9.90 \pm 10.0$	-0.12	<u>9.78</u>
11	10.0	$9.90 \pm 9.8$	-0.12	<u>9.78</u>
12	10.0	$9.95 \pm 9.9$	-0.12	<u>9.83</u>
13	—	—		

March 27, 1919. *shot no 197*

Series 650		C2		S 01 + 15.1	
Scale M.	B52130			P.C.	
	1 <sup>st</sup>	2 <sup>nd</sup>	diff	2 <sup>nd</sup>	
	3.8				
1	3.6		3.14	8.8	-1.86
	3.9				
2	3.7		3.34	8.8	-1.56
3		4.5	3.14	9.2	-1.56
4		5.2	3.00	9.9	-1.70
6		5.8	2.87	-	
7		5.9	3.16		
w. s. 6a		7.0			
9a		6.8	.		
11		6.8	2.94		
9b		7.0	.		
9c		5.8	.		
12a		7.2	3.21		
14		7.8	2.99		
16		8.0	3.18		
17		8.2	3.23		
19		8.7	3.13		
21		9.1	3.24		
22		9.7	2.80		
23		9.7	3.09		
25		10.0	3.10		
10		6.2	3.15		



	$g$ $g_{\text{mid}}$	$h$ $h_{\text{mid}}$	diff.
1	7.2	$7.05 \frac{1}{2}$	6.9 -0.11
2	7.6	$7.35 \frac{3}{4}$	7.1 -0.11
3	7.9	$7.90$	7.9 -0.26
4	8.5	$8.35 \frac{1}{2}$	8.2 -0.15
6	8.8	$8.90 \frac{1}{2}$	9.0 -0.23

w. s.

6a	10.0	—	—
7	9.1	$9.20 \frac{1}{2}$	9.3 -0.14
9a	10.0	—	.
9b	—	—	.
9c	9.0	$8.95 \frac{1}{2}$	8.9 .
11	10.0	—	-0.26
12a	—	—	—
10	9.8	$9.85 \frac{1}{2}$	9.9 -0.50

12 - 0.5















1919phae.proj.1034M