

KG

11366

014

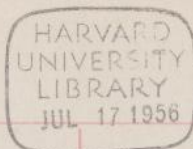
KG 11365, 017

Se R.

1st Se. everything thro' 9.0

2nd " 7.0 to 14.0

KG 11365.014



August 20, 1920

3 -
Se. 2M

For Corrections

B 157

Pleiades

g

g

h

h

Mean

(The Cornack)

to scale,
see page 6

	30	3.1	3.4	3.4	7.7	7.8	7.75
	15	B		B	2.1 ^{2.4}	2.1 ^{2.4}	2.40
	16	B		B	2.3 ^{2.6}	2.4 ^{2.7}	2.65
	23	1.3	1.7	1.7	6.3 ^{6.0}	6.0 ⁻³	5.74
	33	6		7.0			
	29	1.9	2.2	2.2	6.3 ^{6.0}	6.1 ⁻²	6.05
	32a	6.0	5.8	5.7-3			
	32	5.0	5.8	5.7-2			
	e	6.0	5.8	5.7-3			
	38			8.9			
	31	4.7	5.1	5.0 ⁺¹	9.3 ⁺	9.1 ⁺	9.20 ⁺
	34			7.3			
	C			7.8			
	36			n.s.			
	d			7.7			
	33			6.5			
	17	B		B	3.4 ^{3.1}	3.5 ^{3.2}	3.45
	37	B		B	2.2 ^{1.9}	2.1 ^{1.8}	2.15
	364	5.0	5.2	5.3 ⁺³	9.3	9.5 ^{9.6}	9.20 ⁺
	365	B		B	2.4 ^{2.1}	2.6 ^{2.3}	2.50
	36a			7.8			
	367	5.8	5.7	5.5-3	7	7	7
	361	6.5	6.1	6.1-4	7	7	7
	356	5.8	5.7	5.5-3	7	7	7
	7	B		B	B x	B	B
	2	B		B	B	B	B
	368			7.9			

August 24, 1920

Se 0.7M

Soudam		B157		Pleiades (cont)		Se1		Se2		Se1		Se2		Mean	
Corrections		to Scale 1													
348	5.2	5.4	5.5	2.4	5.0	1	2	1	2	1	2	1	2		
342			7.4	7.4				8.7				9.0?			
Read. Cor.	35		7.5	7.5											
0 to 48, +0.3	b	defect	7.8	7.8											
49 to 5.2, +0.2	333	4.5	4.5	3.4	5.0	0.0		8.7				9.0?		8.85	
5.3 to 5.5, +0.1	315	3.9	4.2	4.1	2.4	1.5	0.1	8.5				8.9		8.70	
5.6, 5.7, 0.0	340		7.3	7.3											
5.8, 5.9, -0.1	328	3.6	3.9	4.0	4.3	9.5	1.0	7.8				7.9		7.85	
6.0, 6.1, -0.2	a	defect	8.2	8.2											
6.2, 6.3, -0.3	330		6.7	6.7											
6.4 to 6.6, -0.4	318	3.2	3.5	3.5				7.7				7.9		7.80	
320			6.9	6.9											
24	5.1	1.4		1.4				5.3	5.5	5.3	5.5	5.3	5.5	5.35	
311			6.7	6.7											
301	4.1	4.4		4.4				8.7				8.9		8.80	
12	B		B					2.2				2.2		2.20	
295	5.8	5.7	5.5	3.5	6.0	1.1									
27	2.0	2.3		2.3				6.9				6.9		6.90	
282			6.8	6.8											
280	B		B					4.2				4.3		4.25	
289	5.2	5.4	5.3	1.5	3.5	9.1									
277			6.5	6.5											
25	2.1	2.3		2.3				5.9	5.6	5.7	5.8	5.5		5.78	
272	6.1	5.9	5.8	3.5	8.5	1.0									
267	5.2	5.4	5.4	2.5	4.0	0.0								4.30	
254	2.0	2.3		2.3				7.1				7.3		7.20	
247	4.0	4.3		4.3				8.9				9.0		8.95	
207	2.9	3.2		3.2				7.8				8.0		7.90	
11	B							2.0				2.2		2.10	

12:30

August 23, 1920

Se 2.7 R

Scale changed -

Images with

Comp. with DM

Corrections

to Scale

R (2.1)

Used

for this

plate

included

of the

usual

correction

of +0.3

Read. Cor.

6.0-0.3

6.0-6.6-0.3

6.7-8.0-0.2

8.1-9.2-0.1

9.3-10.0-0.0

F 31

F 34

F C

F 36

F 33

F 17

370

364

365

F 36a

F 367

F 361

F 356

7

2

F 368

348

F 362

F 367

F 361

F 356

7

2

F 368

348

F 362

F 367

F 361

F 356

7

2

F 368

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348

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7

2

August 23, 1920

DeR

B 112 Pleiades. (McLoughlin) 7									
342	10.1	10.1							
35	10.9	10.9							
b	12.1	12.1			13.8	13.9	13.85		
7 333 6.1 ^{5.8}	5.7	5.75			4.4	4.4	4.4		
7 355 5.2 ^{4.9}		4.9							
342	9.1	9.1			11.8	12.0			
328 4.7 ^{4.6}		4.6					11.90		
a	12.9	12.9							
332	8.9	8.9							
318 1.3 ^{4.0}		4.0			12.1	12.3	12.20		
7 320 9.0 ^{8.9}	9.0	8.95							
24 2.0 ^{1.7}		1.7			5.8	5.9	5.88		
311 9.1 ^{9.0}	8.9	8.95			13.1	13.2			
301 5.1 ^{4.8}		4.8					13.15		
12 B	B	B			2.7	2.7	2.7		
7 295 7.1 ^{6.9}	6.8	6.85							
7 27 3.1 ^{2.8}		2.8			9.9	9.8	9.85		
7 282	8.8	8.8							
7 280 B	B	B			4.8	4.8	4.80		
7 289 6.3 ^{6.0}	6.1	6.05							
277	8.1	8.1							
25					6.9	7.0	6.9		
7 272 6.7 ^{6.5}	6.4	6.45			7.1	7.2	7.0	7.0	6.96
7 267 6.3 ^{6.0}	6.1	6.05							
7 254					10.0	10.2	10.10		
7 247 5.0 ^{4.7}		4.7			13.1	13.2	13.15		
7 237 4.1 ^{3.8}		3.8			12.1	12.1	12.10		
7 11 B	B	B			2.0	2.0	2.0		

Numbers having "7" to the left are in fogged regions

August 24, 1920

No	B III	Phin	Me	Comet	Exposure
	Ex 5	Ex 2	Ex 1	Ex 3	Ex 4
2					
3					
4					
5					
7					
11					
13					
16					
17					
24					
25					
37					
82					
86					
91					
114					
120					
131					
137					
141					
143					
159					
169					
172					
184					
192					
196					

B116 Charles McCormick

179

222

207

207

217

239

240

241

254

267

272

277

280

281

289

301

318

328

333

353

355

212

August-24, 1920

Se AM

1.35

B162 Pleiades Me Coma 1/2

30	3.0 3.3	2-1 3.3	7.7 7.9	2-1	7.80
F 15	B	B	2.4 2.3 2.1 2.0		2.35
23	1.2 1.5	1.5	5.4 5.2 5.1 5.3	+2	5.22
32f		6.5 6.5			
F 29	1.7 2.0	2.0	5.9 5.9 6.1 6.2	-3	5.88
F 32a	5.9 5.8	5.6 -3 5.70	5.8 5.9		
F 32	5.8 5.7	5.5 -3 5.60			
F 2	5.9 5.8	5.5 -4 5.65			
38		8.5 8.5			
F 31	4.3 4.6	4.7 +4 4.65			
F 34		6.9 6.9			
F c		7.5 7.5			
36		7.5 7.5			
F d		7.5 7.5			
F 33	6.5 6.1	6.2 -3 6.15			
F 17	B	B	3.3 3.3 3.0 3.0		3.30
F 37a	B	B	2.3 2.3 2.0 2.0		2.30
364	4.8 5.1	5.1 3 5.10			
365			2.8 2.6 2.5 2.3		2.70
F 36a		7.5 7.5			
F 367	5.3 5.4	5.5 2 5.45			
F 361	6.3 6.4	6.1 -2 6.05			
F 356	5.3 5.4	5.5 2 5.45			
7	B	B	B B		
2	B	B	B B		
F 36f		7.8 7.8			
348	5.1 5.3	5.3 2 5.30			

Plate unevenly fogged. The letter F preceding the number indicates that the image is in heavily fogged region.

August 24, 1920

Se ATM

B162 (cont)

	Se 1	Se 2	2-1	g	L	g	L	2-1
342		7.0	7.0					
35		7.5	7.5					
f		ns	ns.					
F 333	4.5 4.2	4.5	3 4.50			8.9	9.0	8.95
F 335	3.6	3.9	3 3.90	4.4	4.4			
340		7.1	7.1			7.7	7.8	7.75
F 328	3.4 3.1		3.4			7.8	7.8	7.80
a		8.3	8.3					
330		6.5	6.5					
318	3.3 3.0		3.3			7.7	7.7	7.70
320		6.5	6.5					
24 B			B	5.1 5.1 4.9 4.9	5.1 5.0			25.08
311		6.5	6.5	6.5				
301	4.2 3.9		4.2			8.7	8.9	8.80
F 12 B			B	2.4 2.2 2.1 1.9				2.30
F 295	5.4 5.3	5.5	2 5.45					
Se. too elong F 27						6.9	6.9	6.90
F 282		6.5	6.5					
F 280 B			B	3.9 3.9 3.6 3.6				3.90
289	5.1 4.9	5.1	2 5.10					
F 277		6.3	6.3					
F 25				5.3 5.3 5.1 5.1	5.3 5.5	3		5.35
F 272	5.8 5.9	5.7	-2 5.75					
F 267	5.3 5.1	5.3	2 5.30					
F 254	2.0 1.7		2.0			7.0	7.1	7.05
F 247	4.1 3.8		4.1			8.7	8.9	8.80
F 237	2.6 2.3		2.6			7.7	7.7	7.70
F 11 B			B	2.3 2.3 2.0 2.0				2.30 3.00

11:30

Se atm

Ex 5

Ex 2

Ex 1

August 25, 1920

	B 116		Pleiades		(McCormack)	
	Se 1	Se 2	Se 1	Se 2	Se 1	Se 2
2	B		B		B	
3						
4					B	
5			B		B	
7	B		B		B	
11	1.1 1.4		0.9 1.2		0.9 1.2	
12	^{1.3 1.6} 1.0 1.3 1.45		0.9 1.2		0.8 1.1	
13					1.3 1.6	
14			^{1.3 1.6} 2.1 2.4		1.2 1.5	
17	2.1 2.4		2.1 2.4			
24	^{5.1} 4.9 5.10	5.1	^{5.1} 4.9 5.15	5.2	^{5.4} 5.1 5.35 5.3	
25						
27						
82						
86						
91					2.9 3.2	
114						
120					2.1 2.4	
131						
137			7			
141			2.0 2.3		1.9 2.2	
143			2.3 2.6		2.1 2.4	
159						
169			^{6.4?} 6.1 6.45	6.3	6.1	
172						
184						
192	3.2 3.5		3.3 3.6		3.2 3.5	
196		6.8		6.7		6.7

August 25, 1920

Se ATM

Ex 3

Ex 4

Ex 6

	B 116 Se 1	Blended Se 2	Se 1	Se 2	Se 1	Se 2
2	B				13	
3	B		B			
4	B		B			
5	B		B			
7					B	
11	0.9 ^{1.2}		0.8 ^{1.1}			
12						
13	1.0 ^{1.3?}		1.0 ^{1.3}			
14	1.0 ^{1.3}		1.1 ^{1.4}			
17						
24	On edge of film				Th.	
25						
27						
82						
86						
91	2.8 ^{3.1}		2.8 ^{3.1}			
114						
120	2.0 ^{2.3}		1.9 ^{2.2}			
131						
137						
141	1.9 ^{2.2}		1.8 ^{2.1}			
143	2.1 ^{2.4}		2.0 ^{2.3}			
159		X				
169		6.3		6.1		
172						
184						
192	3.0 ^{3.3}		3.0 ^{3.3}			
196		6.7		6.5		

August 25, 1920

Sc. ATM

E45

E42

E41

B 116 Pleiades (cont)

	Sc. 1	Sc. 2	Sc. 1	Sc. 2	Sc. 1	Sc. 2
199						
202	4.9 ^{5.1}	5.10	5.1	3.9 4.2	3.8 ^{4.1}	
207						
209	3.2	3.5	3.0	3.3	2.9 ^{3.2}	
212	0.6	0.9?	B		B	
217	1.2	1.5	1.0	1.3	1.0 ^{1.3}	
239						
240						
241						
254			7.8 ^{8.2?} ✓		7.7	8.0?
267						
272						
277						
280	3.1	3.4	2.9	3.2	2.9 ^{3.2}	
281						
289						
301						
318						
328						
333						
353						
355						

Im larger than
not comparable
in on scale

August 25, 1920

Se ATM

Ex 3

Ex 4

Ex 6

B 116
Sc 1Pleiades
Sc 2 Sc 1

Sc 2 Sc 1

Sc 2

199

202 3.8^{4.1} 4.50 4.9 3.9 4.25.1^{5.3} 5.3^{5.30} 5.3^{5.3}

207

209 3.0 8.3

2.9 3.2

3.3 3.6

212

7.3

1.3 1.3

217 1.0 1.3

1.0 1.3

1.0 1.3

219

240

241

254 (7.9) ✓

267

272

277

280 3.1 3.4

281

289

301

318

328

333

353

355

1:25

August 25, 1920

2:30

Sc ATM

Ex 5

Ex 2

Ex 1

B₁₁₅

Pleiades

MC

Cormack

2 ^{Sc 1} 73^{Sc 2} B^{Sc 1} B

3

4

5

7 B

B

B

B

B

B

11 1.0 1.3

1.0 1.3

12 1.0 1.3

1.1 1.4

1.0 1.3

13

1.1

1.1 1.4

14

1.1

1.0 1.3

17 2.3 2.6

2.1 2.4

2.3 2.6 on edge

24 5.0 ^{5.2} 5.15 5.1 4.9 5.1 5.1 4.9 ^{5.1} 5.15 5.2

25

27

6.9

7.1

7.1

82

86

91

2.7 3.0

114

120

2.1 2.4

131

137

141

1.9 2.2

143

2.2 2.5

159

169 6

6.0 ^{5.8} 5.85 5.9 5.9 5.8 5.85 5.8

172

184

on edge of film 192 3.4 3.7

3.2 3.5

on edge of film 196

6.5

6.3

August-25, 1920

Exp 3

Exp 4

Exp 6

B 115

Pleiades (cont)

Sec 1

Sec 2

Sec 1

Sec 2

Sec 1

Sec 2

2

B

3

B

B

4

B

B

5

B

7

B

11

0.9 1.2

1.0 1.3

1.0

12

1.0 1.3

13

1.1 1.4

1.2 1.5

14

1.1 1.4

1.3 1.6

1.7

17

On edge 2.4 5.1 5.3 5.30 5.3

5.1 5.3 5.30 5.3

25

27

7.1

6.9

82

86

91

2.7 3.0

2.9 3.2

114

8.0?

120

2.0 2.3

2.1 2.4

131

137

141

2.0 2.3

2.0 2.3

143

2.2 2.5

2.3 2.6

159

169

4.0 5.8 5.80

5.8

5.9 5.8 5.85

5.9

172

184

192

196

6.1 5.9 5.95 6.0

6.3

6.3

	Ex 5	Ex 2	Ex 1
	B _{sc1} 11.5 Pleiades (cont)	B _{sc2}	B _{sc1} B _{sc2}
199			
202	4.0 ^{4.3}	3.9 4.2	
207	7		+12
209	3.0 3.3	3.1 3.4	
212	B	B	
217	1.1 1.4	1.3 1.6	1.0 1.3
239			
240			
241			
Hazy - ft	254 (7.7?) ↘	7.5	7.5 7.5 9
257			
272			
277			
280	3.1 ^{3.4}	3.2 3.5	3.0 3.3
281			
289			
301			
318			
328			
333			
353			
355			

	Ex 3	Ex 4	Ex 6
	§ 115 Pleiades (cont)		
			Sec 1 Sec 2
199			
202	3.9 ^{4.2}	3.9 ^{4.2}	3.9 ^{4.2}
207	3		
209	3.1 ^{3.4}	3.2 ^{3.5}	3.0 ^{3.3}
212	B	B	B
217	1.2 ^{1.5}	1.3 ^{1.6}	1.2 ^{1.5}
239			
240			
241			
254		7.5	7.7?
267			
272			
277			
280	3.0		
281			
289			
301			
318			
328			
333			
353			
355			
272			

4-

11,30

Se. ATM

September 1, 1920

For Gneiss	B160	Blindes	Mac Cormack		[Broken plate: measured through glass.]	
	Sc 1	Sc 2	g	h	g	h
to first scale;	30 2.9 ^{3.2}	3.2			7.5	7.5
are p. 6.	15 B	B	1.2 ^{1.5}	1.1 ^{1.4}		1.45
	16 B	B				.
	23 1.0 ^{1.3}	1.3	4.9 ^{5.1}	5.0 ^{5.2}	5.0	5.1
	33 ^f	6.7 6.7				.
	29 1.3 ^{1.6}	1.6	5.7 ^{5.1}	5.7 ^{5.1}	5.5	5.7
	32a 5.0 ^{5.2}	5.0 5.10				.
	32 5.0 ^{5.2}	5.1 5.15				.
	38	7.9 7.9				.
	36	8.1 8.1				.
	34	6.5 6.5				.
	31 4.0 ^{4.3}	4.3			8.5?	8.7?
	33 5.3 ^{5.4}	5.5 5.45				.
	17 B	B	2.1 ^{2.4}	2.0 ^{2.3}		2.35
	36a	7.0 7.0				X.
	370 B	B	1.0 ^{1.3}	1.0 ^{1.3}		1.30
	367 4.9 ^{5.1}	5.1 5.10				.
	356 4.7 ^{5.0}	5.1 5.05				.
	364 3.9 ^{4.2}	4.1 4.15				.
	365 B	B	2.1 ^{2.4}	2.1 ^{2.4}		2.46
	361 5.3 ^{5.4}	5.3 5.35				.
	348 4.1 ^{4.4}	4.3 4.35				.
	342	6.5 6.5				.
	368	7.5 7.5				.
	35	7.0 7.0			9.5	7.4
	338 2.8 ^{3.1}	3.1			7.8	7.9
	34a	6.7 6.7				7.75

September 1, 1920

Sc ATM

B 160		Pleiades		Mc Cormack	
Sc 1	Sc 2	Sc 1	Sc 2	Sc 1	Sc 2
342				7.8	7.8
333	4.1	4.1		dy-	8.1
335	3.8	3.3		Scv.	8.1
335	3.0	3.3			
335					
330		6.0	6.0		
320		6.2	6.2		
24 B		B		4.9	5.0
311					
301	3.3	7.0	7.0		
103	3.0	3.3		7.7	7.9
12 B		B	13 B		B
295	5.1	5.1			
27	13	B		6.0	6.1
280	B	B			6.05
285			3.3 3.2		3.25
277	5.7	5.7	3.0 2.7		
25 B		B			
247	3.2	3.2	5.3 5.3		5.30
267	4.6	4.6	5.1 5.1		
272	5.2	5.2		7.9	8.1
254	1.3	1.3			8.00
2	13	B			
7	13	B	B B		B
289	4.5	4.5	B B		B
237	off plate			8.7	8.7
11	" "				8.70
c		7.1	7.1		
d		7.1	7.1		
meas. Plate No up - in right-hand corner					
e		5.1	5.1		

1.05

September 4, 1920

YELLOW

MC 9802		Pleiades		1	2	3
1	B	B	B	5.7	5.7	
2	B	B	B			
3	B	B	B			
4	B	B	B			
5	B	B	B	7.7	7.5	
6	B	B	B			
7	B	B	B	2.2	2.2	3
8	B	B	B	2.1	2.1	2.20
9	B	B	B	2.9	2.9	3.00
10	B	B	B	2.8	2.8	2.90
11	B	B	B	3.2	3.1	2
12	B	B	B	3.1	3.0	3.15
13	B	B	B			
14	B	B	B			
15	B	B	B			
16	B	B	B			
17	B	B	B			
18	B	B	B			
19	B	B	B			
20	B	B	B			
21	B	B	B			
22	B	B	B			
23	B	B	B			
24	B	B	B			
25	B	B	B			
26	B	B	B			
27	B	B	B			
28	B	B	B			

YELLOW

Sept 4, 1920

Sev

MC 9802 cont-			1	2	3	4
	8.1	8.2	7	7	7	7
29 B					8.7	8.9 8.80
29a 4.0 4.1	4.1	4.10			9.0	9.1 9.05
30 4.8 4.9	4.9	4.90			7	7
31	6.1					
32	6.9					
32a	7.3					
33	7.9					
33a	7.7					
33b	8.1					
34	8.7					
34a	8.9					
35	9.1					
35a	7					
36	7					
36a	9.3					
36b	9.1?					
37	Sup?					
38	7					
82	7.8					
86	9.0					
91	8.9					
114g	9.3?					
120m	8.0					
131e	7.0					
137d	9.0					
141c	9.1					
143						
159						

4-

YELLOW

Sept. 4, 1920.

Sc V

MC 9802 cont-

Sc 1

Sc 2

j

h

 $\frac{2}{j}$ $\frac{2}{h}$

169

172

184

192

196

199

7.5

202 B

7.5 7.3 7.40

208 B

4.7 4.9 4.80

Very near
other stars

209 B

7.1 7.1 7.10

212 B

3.8? 3.5? 3.50?

217 B

5.7 5.8 5.75

237

4.7

9.7 9.7 9.70

239

6.2

240

4.9

241

6.7

254 ³2.738³2.9385

9.3 9.3 9.30

267

6.7

272

8.2

277

7.9

280

5.0

281

7.0

289

7.0

301

6.0

318

8.7

5.1

328

5.1

333

6.2

335

6.0

353

355

YELLOW

Sept 4, 1920

MC9802

247 5.7

249 3.4 3.5

282 8.0

286 \swarrow (3.9) 4.0

295 7.0

320 8.0

342 8.9

348 6.7

356 Sup. on g-

361 7.7

364 6.9

365 B

367 7.8

370 B

g h g h

8.9 9.0 8.95

9.7 9.7 9.70

5.9 6.0 5.95

4.8 4.9 4.85

28

10.130

DeR

YELLOW

Sept 9, 1920

Corrections Holdreid method
Curva sheet on

	MC 9902	P. 2.10	Diff	Curva sheet on	7.7	8.0	8.2	8.4	8.6	8.8	9.0	9.2	9.4	9.6	9.8	Curva
Use -0.2	1	5.1 38	3.92	0.00	9.3	9.2	9.0	7.5	7.4	7.2	7.1	7.0	6.9	6.8	6.7	-0.19
as cor. to	2	4.9	4.22	0.00												-0.41
Scale 1, instead	3	5.2 5.0	4.08	-0.01	9.3	9.1	9.3	9.1	9.0	9.08						-0.40
of the usual	4	5.5 5.2	4.08	-0.02	9.5	9.3	9.3	9.2	9.3	9.28						-0.45
correction	5	5.9 5.7	4.30	-0.04	10.0			10.0	10.0	10.00						-0.70
of +0.3.	6	5.9 5.7	4.40	-0.04				10.0	10.2	10.10						-0.74
	7	6.2 6.0 6.00	5.00	-0.05				11.0	11.0	11.00						-1.13
	8	7.2 7.0 7.00	5.05	-0.11				12.0	12.1	12.05						-1.51
	9	7.3 7.1 7.10	5.20	-0.12				12.3	12.3	12.30						-1.57
	10	8.3 8.1 8.05	5.00	-0.22				13.1	13.0	13.05						-1.61
	11	8.5 8.3 8.30	5.65	-0.26				14.0	13.9	13.95						2
	12	8.7 8.5 8.5	9.0	-0.31												
	13		9.1	-0.40												
	14		9.5	-0.51												
	15		Sup. avg													
	16		9.7	-0.58												
	17		10.1	-0.74												
	18		10.9	-1.09												
	19		11.2	-1.21												
	20		11.5	-1.32												
	21		11.5	-1.32												
	22		11.9	-1.47												
	23		12.2	-1.53												
	24		12.0	-1.53												
	25		12.3	-1.57												
	26		12.5	-1.59												
	27		12.7	-1.61												

Se R YELLOW

Sept. 8, 1920

Mc 9802				P.C.'s	Diff.		Cum		Diff.		Cum	
					g	h						
28	1.31						-1.61					
29	12.9						-1.61					
30	Se 7											
213	8.785	8.70	8.9				-0.31					
338	8.381	8.05	8.0	4.95			-0.22		9	13.0	13.0	-1.61
358		10.5					-0.91					
406	6.866	6.80	7.0	4.19			-0.10		12.7	13.1	12.90	-1.61
423	8.583	8.25	8.2	4.75			-0.25		12.9	13.1	13.00	-1.61
473	8.785	8.50	8.5	5.20			-0.28		13.7	?	7 13.7	-1.18
a		8.5	5.10				-0.28		13.7	13.5	13.60	-1.40
b		9.9					-0.66					
202		Sup										
208	8.583	8.30	8.3				-0.27		Too near g			
209		10.7					-1.00					
212	7.715	7.45	7.4	5.35			-0.17		12.7	12.9	12.80	-1.61
217	9.391	9.10	9.1				-0.40					
254		13.0					-1.62					
249		12.8					-1.61					
365		9.2					-0.42					
370		8.1					-0.22					

Diff. images elongated

11:40

SeR

YELLOW

Sept 8, 1920

Me 744 g			Pleiades (1)		(2)			
	g ₁	g ₂		h		h		
1	B		B	B				
2	B		B	B				
3	B		1.3	1.2				
4	B		1.8	2.0				
5	B		2.0	2.0				
6	B		2.0	2.0				
7	B		2.3	2.1				
8	B		4.1	4.0				
9	B		5.0	5.1				
10	B		6.2	6.1				
11	Sup. on g		Sup. on g					
12	B		7.4	7.3	7.1	7.1	7.22	
13	B				7.8	7.9	7.85	
14	¹¹ 1.3		⁶ 7.98	8.1	8.1	8.0	8.1	8.08
15	¹¹ 1.3		^{1.7} 8.08	8.3	8.3	8.0	8.1	8.18
16	1.3	1.1	⁶ 7.98	8.1	8.2	8.0	8.0	8.08
17	2.0	1.8	7.50			9.3	9.3	9.30
18	2.1	1.9	8.15			10.0	10.1	10.05
19	2.9	2.7	8.15			10.8	10.9	10.85
W.S.	20	^{3.0} 7.0	^{2.8} 6.8	8.15		10.9	11.0	10.95
21	3.0	2.8	8.05			10.8	10.9	10.85
22	3.3	3.1	8.00			11.1	11.1	11.10
23	4.1	3.9	7.38			11.1	^{11.5} 11.0	^{11.5} 11.28
24	4.0	3.8	7.45			^{11.5} 11.0	^{11.5} 11.0	11.25
25	4.3	4.1	7.00			11.3	11.5	11.40
26	4.0	3.8	7.10			10.9	10.9	10.90
27	6.0	5.8	6.60			12.5	12.3	12.40
28	6.0	5.8	6.70			12.5	12.5	12.50

YELLOW

Sept 8, 1920

MC 7449			Pleiades			(2)
	Sc1	Sc2				
29	5.3	5.1	6.85	11.9	12.0	11.95
29a	6.4	6.2	6.75	12.9	13.0	12.95
30	7.5	7.3	7.2	7	13.7	13.7
31		9.1				
32		10.7				
32a		10.1				
33		11.0				
33a		11.3				
33b		9.8				
34		12.0				
34a		12.1				
35		7.8				
35a		13.9?				
36		13.9				
36a		12.5				
36b						
37		7?				
38		13.0				
202						
202	3.1	2.9	8.05	10.9	11.0	10.95
208	B			7.2	7.1	7.15
209	2.9	2.7	8.00	10.7	10.7	10.70
212	B			Sup on g		
217	B			8.0	8.1	8.05
237		7.1	6.10	13.1	13.3	13.20
239		8.9				
240		7.1	6.00	13.1	13.1	13.10
241		9.1				
d		12.7				

Sept 8, 1920

Se R

Se1 Se1 Se2

MC 7449 Pleiades

Se1

244	9.9				
247	9.0				
249 5.9 5.7		6.70		12.5 12.3 12.40	
254 6.0 5.8		6.60		12.3 12.5 12.40	
267	9.3				
272	10.1				
277	10.9				
280 2.1 1.9		8.60		9.9 9.9 9.90	
281	9.9				
286 6.3 6.1					
289	9.9				
295	10.2				
301	8.3				
311	12.3				
318	7.9				
320	11.9				
328	7.9				
PCs of Nos { 333 9.1 5.9		5.10		11.1 10.9 11.00	
2 + 7 means { 335 8.3		4.05		9.0 8.9 8.95	
by mistake { 342 12.3					
Sept 9, 1920 { 348 10.6					
	8.5				
356	10.1				
361	11.3				
364	10.1				
365 19 17		6.90		8.7 8.5 8.60	
367	9.9				
370 13		6.1 6.2		6.15	
199	10.3				

Sept 8, 1920

ScR

MC 7449

(2)

Pleiades

h

13.1

k

13.5⁹

n

10.7

y

12.2

e

12.8

d

12.9

e

10.5

l

13.5⁻

w

12.5

q

13.0

r

12.1

s

13.1

b 2.0^{1.8}

9.1 9.0 9.05

b B

7.0 7.0 7.00

10 —

Sc R

Sept 10, 1920

MC 7449	PC's + diff (2)	Pleiades
1 Supr.	Diff	Supr.
2 5.1 4.9	4.15	9.1 9.05 9.0 along
3 5.3 5.1	4.00	9.1 9.10 9.1 along
4 5.5 5.3	4.00	9.3 9.30 9.3
5 5.8 5.6	4.35	9.9 9.95 10.0
6 5.9 5.7	4.35	10.1 10.05 10.0
7 6.1 5.9	5.05	11.0 10.95 10.9
8 7.1 6.9 6.95	7.0 5.00	12.0 11.95 11.9
9 7.3 7.1 7.10	7.1 5.15	12.3 12.25 12.2
10 8.3 8.1 8.10	8.1	Supr on 9
11 8.5 8.3 8.30	8.3 4.80	13.1 13.10 13.1
12	9.0 4.95	13.9 13.95 14.0
13	9.1 4.85	13.9 13.95 14.0
14	9.3	Supr.
15	9.5	
16	9.5	
17	10.1	
18	10.7	
19	11.1	
20	10.9	
21	11.3	
22	11.7	
23	12.0	
24	11.7	
25	12.1	
26	11.9	
27	12.3	

All diff images elongated.

Sept 10, 1920

Sc R

MC 7449		PC's		diff		
Se 1	Se 2					
28	12.9					
29	12.7					
29a	13.1					
30	13.9?					
a	8.4	5.00		13.5	13.3	13.40
b	9.5					
213	9.1					
338	8.2 8.0 8.05	8.1	5.00	13.6	13.1	13.05
358	10.3					
406	8.0 7.8 7.85	7.9	5.10	12.9	13.0	12.95
423	8.7 8.5 8.50	8.3	5.30	13.7	13.9	13.80?
473	8.5	5.30		13.7	13.9	13.80
208	9.1 8.9			7		
208	11.0					
208	ws 9.0					
209	10.5 10.7					
212	7.7 7.5 7.40	7.3				
217	9.0					
254	12.7					
249	12.7					
365	9.4					
370	8.3	4.90		13.3	13.1	13.20

Sup on g

11:30

11,30

Ser

Sept 15, 1920

MC 7450		Pleiades		Sec 1	Sec 2
1	B	Sec 1	Sec 2	49 50.0 50.4	6.9 6.95
2	B			5.1 5.2	6.9 7.0
3	B			6.8 6.75 6.7	7.0 7.0
4	1.0 0.8		6.55	6.9 6.90 6.9	7.0 7.0
5	1.3 1.1		7.10	7.1 7.1 7.1	7.3 7.5
6	1.7 1.5		7.00	7.5 7.30 7.5	8.20 8.3
7	2.3 2.1		7.30		8.50 8.5
8	2.7 2.5		7.80		9.40 9.5
9	3.1 2.9		7.80		9.5 9.5
10	5.1 4.9		7.15		10.3 10.3
11	5.5 5.3		7.20		10.7 10.7
12	6.1 5.9		7.05		12.05 12.1
13	6.3 6.1		7.05		12.50 12.5
14	6.7 6.5		7.10		12.95 13.0
15	6.9 6.7		7.25		13.15 13.1
16	7.1 6.9	195.6	7.05		13.60 13.7
17	8.0 7.8	190	8.0		13.95 13.9
18			9.0		14.00 14.0
19			9.5		
20			9.5		
21			9.7		
22			9.9		
23			10.3		
24			10.3		
25			10.60		
26			10.7 10.5		
27			10.3		
			11.9		

Sept 15, 1920

b.c.R.

MC 7450		(2)	
	802	g	h
28	12.1		
29	11.3		
29a	12.5		
30	13.00		
	12.9 13.1		
a	5.3	12.60	
	5.5	12.7	12.5
b	7.1	7	
	7.3 1.0		
	7.1		
31	n.s.		
	9.5		
202	W.S. 8.8		
	5.7	7.25	12.95
208	5.9	12.9	13.0
209	8.9		
	3.9	7.90	11.8 11.80
212	4.1		11.8
	5.8	7.25	13.1 13.05
217	6.0		13.0
237	12.8		
247	13.9?		
239	n.s.		
240	12.8		
249	8.8		
254	11.5		
280	8.3		
286	12.1		
	6.9	5.25	
365	7.4 6.95		
	5.8	7.40	12.3 12.20
370	7.1 n.s.		12.1
	7.0		

1:05

2-

Ser

Sept 15, 1920

Time	7450	PC's	Diff	
13	7.5 7.30	7.60?	12.9	Too near other stars
2	8.5 8.30	5.50	13.9	13.7
3	8.5	5.50?	7	14.0?
4	8.7			
5	9.4			
6	9.8 9.7			
7	10.5			
8	11.0			
10	12.0			
9	11.3			
11	12.60 12.7			
12	13.0			
13	13.1			
14	?			
15	13.7			
16	13.8			
17	7			
406	11.3			
423	12.9			
473	12.8			
338	12.2			
213	12.9			
208	13.8			
217	13.9?			
a	12.8			
370	12.3			
212	11.9			21.30

10-30

S.R.

M7 Series 68

Sept 17, 1920

Sheet 224

For E.F.L. the
usual correction
of +.03 to scale
of Scale R
is not used. 2
Now are the
measures on
Scale 2 brighter
than 8.0 dis-
carded when
measures are
made on
scale 1.

Use correction
of -.02 to
scale 1.

M7 2632	Sc 1	4.3	4.1	Diff.	2.71
	Sc 2	4.8	4.6		2.48
		5.2	5.0		2.67
		5.4	5.2		2.71
		6.0	5.7		2.55
		5.9	5.7		2.76
		6.2	6.0		2.83
		6.3	6.1		2.93
		6.7	6.5		2.84
		7.4	7.2		2.60
		8.1	7.9		1.97
		8.5			1.90
		9.1			1.60
		9.7			1.32
		10.5			0.89
		11.8			0.06
		12.5			-0.10
		12.9			-0.33
		13.8			-0.90

(2)	7.8	7.7	Diff.	-0.97
	8.5	8.3		-1.32
	8.9			-1.23
	10.3	10.3		-2.39
	10.9	11.0		-2.65
	11.0	11.0		-2.54
	11.5	11.3		-2.57
	12.0	12.1		-3.82
	13.3	13.1		-3.75
	7			

Diff images poor

see remarks p 39

M7 Series 68

Sept 17, 1920

M7 2634		North 22 01 - 40.5		Sc 2	
Sc 1	Sc 2	Cu. magn.		Cu. magn.	
1 2.8 ^{3.2} 2.6					
2 4.9 ^{5.2} 4.7		2.61	7.31	9.00 ^{1.2}	8.9 - 1.52 7.48
3 5.9 ^{6.2} 5.7		2.81	8.51	10.40 ^{1.2}	10.3 - 2.29 8.11
4 7.1 ^{7.4} 6.9 ^{90.00}		2.77	9.67	12.00 ⁰⁰	12.0 - 3.00 9.00
5 7.9		2.19	10.09	13.50 ⁰⁰	13.5
6 8.4		1.93	10.33	7	
7 8.8		1.73	10.53		
8 8.9		1.70	10.60		
9 9.5		1.40	10.90		
10 10.1		1.10	11.20		
11 10.9 ^{10.80^{1.2}}		10.70	11.55		
12 11.0		0.65	11.65		
13 11.3		0.50	11.80		
14 11.9		0.18	12.08		
15 12.5		-0.15	12.35		
16 13.0		-0.41	12.59		
17 13.8		-0.87	12.93		

11:20

11:50

see remarks p 39

M7 Series 82

Sept 17, 1920

M7 2800				D12				S2			
Cu. magn.				Cu. magn.	g	h		Cu. magn.	Cu. magn.	Cu. magn.	
2.73 8.33	1	5.1 5.7 5.2	5.5 5.60 ¹²	2.79 8.39	4 ^h	10.2	-2.19	8.21	-2.22	7.98	
2.66 7.76	2	5.3 5.1		2.69 7.79	9.8	9.85 ⁰¹	-2.02	7.83	-2.10	7.75	
2.75 8.70	3	6.2 6.1 5.9 5.95 ⁰¹		2.85 8.80	11.1	11.00 ¹²	-2.55	8.45	-2.64	8.36	
2.75 8.75	4	6.3 6.1 5.9 6.00 ¹²		2.86 8.86	+h	11.1	-2.60	8.50	-2.70	8.40	
2.75 8.55	5	6.0 5.8		2.82 8.62	11.1	11.05 ¹⁰	-2.58	8.47	-2.66	8.39	
2.66 9.16	6	6.7 6.5		2.85 9.35	12.1	12.05 ¹⁰	-3.20	9.00	-3.22	8.83	
2.57 9.27	7	6.9 6.7		2.82 9.52	12.5	12.40 ¹²	-3.20	9.20	-3.41	8.99	
2.60 9.25	8	6.9 6.8 6.6 6.65 ¹⁰		2.83 9.48	12.3	12.30 ⁰⁰	-3.15	9.15	-3.35	8.95	
2.40 9.45	9	7.3 7.1 7.05 ¹⁰	7.0	2.70 9.75	12.7	12.60 ¹²	-3.34	9.26	-3.51	9.09	
2.20 9.60	10		7.4	2.50 9.90	13.0	13.00 ⁰⁰	-3.61	9.39	-3.70	9.30	
2.15 9.65	11		7.5	2.44 9.94	13.1	13.05 ¹⁰	-3.64	9.41	-3.72	9.33	
2.15 9.65	12		7.5	2.44 9.94	Ser	13.1	-3.68	9.42	-3.75	9.35	
1.92 9.92	13		8.0	2.13 10.13	13.7	13.60 ¹²	-3.93	9.67			
1.76 10.06	14		8.3	1.98 10.28	7						
1.66 10.16	15		8.5	1.89 10.39							
1.48 10.33	16		8.7	8.85 ¹² 9.0 10.56							
0.88 10.98	17		10.1	1.10 11.20							
0.76 11.06	18		10.3	1.01 11.31							
0.55 11.25	19		10.7	0.80 11.50							
0.45 11.35	20		10.9	0.70 11.60							
0.28 11.48	21		11.2	0.55 11.75							
0.12 11.62	22		11.5	0.39 11.89							
-0.18											
0.82 11.92	23		12.1	0.05 12.05							
-0.38 12.12	24		12.5	-0.15 12.35							
-0.38 12.12	25		12.5	-0.15 12.35							
-0.47 12.23	26		12.7	-0.25 12.45							
-0.50 12.40	27		12.9	-0.36 12.54							
-0.52 12.58	28		13.1	-0.48 12.62							
-0.50 13.00	29		13.5	-0.70 12.80							
	30										

see remarks p 39

M 7 Series 82

Sept 17, 1920

Sheet 225

M 7 2804 1212		Diff		Diff	
Sc 1	Sc 2				
1 4.1 3.9		2.70	7.5760 ¹¹	7.7	-1.00
2 4.7 4.5		2.49	+h	8.3	-1.31
3 5.1 4.9		2.38	9.1905 ¹⁰	9.0	-1.77
4 5.1 4.9		2.66	9.0900 ⁰⁰	9.0	-1.44
5 5.4 5.2		2.64	+h	10.1	-2.26
6 5.7 5.5		2.72	+h	10.7	-2.48
8 6.1 5.9		2.70	+h	11.2 ^{11.35²¹}	-2.75
9 6.4 6.2		2.81	12.7 ^{12.5}	12.60 ¹²	-3.59
11 7.0 ^{6.8 6.85⁰¹}	6.9	2.46	13.0 ^{13.05⁰¹}	13.1	-3.74
12	7.3	2.31	+h	13.5	-3.89
14	8.0	1.91			
16	9.2 ^{9.10¹²}	1.28			
17	9.7	0.95			
18	10.7 ^{10.60¹²}	0.70			
20	12.1	-0.20			
21	12.7	-0.47			
23	13.5	-0.49			
24	13.8	-0.36			
26	7				
27					

1:50

See remarks p39

M7 Series 85

Sept 20, 1920

Sheet 226

12:30

M7 2834

b 12

	sc ¹	sc ²	Diff.
1	4.3	4.1	2.50
2	4.9	4.7	2.29
3	5.3	5.1	2.18
4	5.3	5.1	2.46
5	5.7	5.5	2.34
6	6.1	5.9	2.32
8	6.5 ^{6.3}	6.3 ^{6.1} 6.20 ¹²	2.40
9	6.7	6.5	2.51
11	7.2 ^{7.0}	7.05 ⁰¹ 7.1	2.26
12	7.5 ^{7.3}	7.30 ⁰⁰ 7.3	2.31
14		8.2	1.71
16		9.3	1.08
17		9.8	0.85
18		10.5	0.80
20		11.3	0.60
21		11.9	0.33
23		13.2	-0.19
24		13.9	-0.46
26		7	

g	h	Diff.
7.7	7.80 ¹¹ 7.9	-1.20
8.1	8.20 ¹¹ 8.3	-1.21
8.9	8.95 ¹⁰ 9.0	-1.67
9.9	9.95 ¹⁰ 10.0	-2.39
+h	10.3	-2.46
+h	10.9	-2.68
+h	11.19	-2.50
12.7	12.70 ⁰⁰ 12.7	-3.69
12.9	12.95 ¹⁰ 13.0	-3.64
13.3	13.40 ¹¹ 13.5	-3.79

See remarks p 39

M7 Series 85

Sept 20, 1920

M7 2835 D12							
1	sc 1	sc 2	Cy. magn.	9	h	cu.	magn.
1	5.9	5.7	2.40 8.10	10.3	10.3	-2.46	7.84
2	5.1	4.9	2.40 7.30	9.5	9.60 ¹	9.7 -2.07	7.53
3	6.1	5.9	2.40 8.30	10.9	10.95 ¹⁰	11.0 -2.60	8.35
4	6.1	5.9	2.40 8.30	11.1	11.05 ¹⁰	11.0 -2.65	8.40
5	6.0	5.8	2.40 8.20	11.1	11.05 ¹⁰	11.0 -2.65	8.40
6	7.1	6.9 6.90 ⁰⁰	2.30 9.20	12.1	12.05 ¹⁰	12.0 -3.17	8.88
7	7.1	6.9 6.90 ⁰⁰	2.30 9.20	12.3	12.20 ¹¹	12.1 -3.25	8.95
8		7.1 2.24	9.34	12.1	12.10 ⁰⁰	12.1 -3.20	8.90
9		7.2 2.20	9.40	12.5	12.40 ¹¹	12.3 -3.39	9.01
10		7.7 2.00	9.70	13.0	13.00 ⁰⁰	13.0 -3.70	9.30
11		7.5 2.10	9.60	13.0	12.95 ⁰¹	12.9 -3.69	9.26
12		7.7 2.00	9.70	13.3	13.20 ¹²	13.1 -3.76	9.44
13		8.1 1.79	9.89	13.7	13.60 ¹²	13.5 -3.86	9.74
14		8.5 1.55	10.05	13.9	13.90 ⁰⁰	13.9	.
15		8.5 1.55	10.05			13.9	.
16		9.0 1.27	10.27				
17		9.9 0.85	10.75				
18		10.3 0.80	11.10				
19		10.5 0.79	11.29				
20		10.8 0.72	11.52				
21		11.1 0.64	11.74				
22		11.2 0.58	11.88				
23		11.9 0.35	12.25				
24		12.3 0.19	12.49				
25		12.5 0.09	12.59				
26		12.7 0.00	12.70				
27		12.7 0.00	12.70				
28		13.3 0.76	14.06				
29		13.3 0.76	14.06				
30		13.7 0.61	14.31				

11.45

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see remarks p 39

M7 Series 87

Sept 22, 1920

Sheet 227

M7 2853			b1		
	5.0	5.0	diff.	g	h
1	5.25.1	4.95.0	2.23 +65	9.3 9.40.1	9.5 -2.22
2	5.35.1		2.29 +89	+h	9.7 -2.31
3	5.35.1		2.40 +18	9.8 9.85.0	9.9 -2.35
4	5.85.6		2.36	10.3	+h -2.34
5	6.36.1		2.23	10.9	+h -2.57
9	7.57.3	7.30.0	1.98	12.7 12.80.1	12.9 -3.52
11	8.28.0	8.60.0	1.69	13.5 13.60.1	13.7 -3.91
12		8.3	1.72		
14		9.2	1.42		
15		10.0	1.04		
16		10.3	0.90		
19		12.0	0.21		
18	W.S	11.9	0.04		
7		12.2			
17		10.9	0.60		
20		12.5	0.12		
21		12.90.1			
		130 12.8	-0.01		
24		Sup?			
25		139?	-0.14		

De R. sec N 39

M7 Series 87

Sept 22, 1920

M7 2854 D1

	Sc 1	Sc 2	Cu.	magn.	g	h	Cu.	magn.
1	5.7	5.5	2.30	7.90	+h	9.80	9.7	7.49
2	5.4	5.2	2.32	7.52	10.1	+h	-2.34	7.76
3	5.9	5.7	2.29	7.99	10.3	10.40	10.5	8.02
4	6.0	5.8	2.28	8.08	10.5	10.50	10.5	8.10
5	5.9	5.7	2.29	7.99	10.5	10.60	10.7	8.16
6	6.4	6.2	2.20	8.40	11.3	11.30	11.3	8.55
7	6.1	5.9	2.26	8.16	+h	10.7	-2.49	8.21
8	6.8	6.5	2.17	8.62	11.5	11.40	11.3	8.60
9	7.3	7.1	2.01	9.11	11.7	11.80	11.9	8.80
10	7.1	6.9	2.06	8.96	12.5	12.50	12.5	9.15
11			7.9	9.71	13.3	13.40	13.5	9.59
12			7.7	9.56	Sup	13.1	-3.67	9.43
13			8.4	10.05	13.9	13.85	13.8	
14			8.7	10.25	7			
15			9.0	10.45				
16			9.3	10.65				
17			9.7	10.89				
18			10.3	11.21				
19			10.5	11.30				
20			10.7	11.40				
21			10.9	11.52				
22			11.2	11.67				
23			11.5	11.84				
24			11.8	12.03				
25			12.0	12.19				
26			12.5	12.57				
27			12.7	12.72				
28			13.0	12.98				
29			13.1	13.06				
30			13.3	13.25				
31			13.7	13.59				

11:10

10-30
DeR see p 39

MF Series 133

Sept 23, 1920

MF 3432		Diff.	S ₂		Diff.	PC	Diff.
Sc 1	Sc 2		g	h			
1 4.0	3.8	3.36	7.8	7.85 ^{0.1}	-0.69	11.3	-4.14
2 5.3	5.1	2.92	9.7	9.60 ^{1.1}	-1.58	12.8	-4.78
4 5.4	5.2	3.00	+p	10.1	-1.90	13.1	-4.90
5 6.3	6.1	2.84	+p	11.0	-2.06	13.8	-4.86
6 6.7	6.5	2.66	+p	11.7	-2.54	7	
8 7.1	6.9	2.65	+p	12.1	-2.55		
9 7.2	7.0	2.67	12.7	12.70 ^{0.0}	-2.98		
10	7.5	2.51	+p	13.0	-2.99		
12	7.8	2.41	+p	13.3	-3.09		
13	8.3	2.16					
15	9.5	1.66					
16	9.7	1.66					
18	10.8	1.02					
19	11.0	1.05					
20	11.1	1.12					
21	12.0	0.69					
22	12.5	0.51					
23	12.9	0.29					
24	13.1	0.38					
25	14.0	0.09					

Close to
another St

Be/R see p 39

M7 Series 133

Sept 23, 1920

M7 3434 Beirte		9 v - 32.0	pc
1	^{Se1} 5.14.9 ^{Se2}	^h 9.89.85 ⁰¹ 9.9 9	12.8
2	5.75.5	t/v 11.0	13.8?
3	6.15.9	12.1 ^{12.20¹¹} 12.3	
4	6.36.1	12.9 ^{12.95¹⁰} 13.0	
5	7.5 7.3 7.25 ¹⁰ 7.2		
6	^{8.60¹¹} 8.7 8.5		
7	9.4		
8	10.7		
9	10.9		
10	^{11.40¹¹} 11.5 11.3		
11	12.1		
12	Sup		
13	12.9		
14	13.3		
15	13.9		

Images from

See p 39

MF Series 133

Sept 23, 1920

MF 3434 cont. 149			K	h	pc
1	5.3 ^{5.1}	8.2	12.3	+h	13.0
2	6.2 ^{6.0}		12.3	+h	
3	7.1 ^{6.9 6.95 7.0}		13.0	+h	
4	7.9		7		
5	9.5				
6	9.3				
7	9.9				
8	10.5				
9	10.3				
10	10.9 ^{10.12} 11.0 10.8				
11	11.5				
12	13.0				
13	13.3				
14	13.9 [?]				
15	7				

Images poor

De R see M39.

M7 Series 133

Sept 23, 1920

	M7 3435	Carte 9	U-52.0	pc
1	Se 1 B	Se 2 6.05.85.95 ²	6.1	9.1
2	2.3 ^{2.1}	7.37.30 ⁰⁰	7.3	10.5
3	3.3 ^{3.1}	8.58.40 ¹²	8.3	11.5
4	5.9 ^{5.7}	10.110.05 ¹⁰	10.0	12.9
5	6.3 ^{6.1}	11.711.95 ¹⁰	12.0	
6	7.37.17.15 ¹⁰	12.512.50 ⁰⁰	12.5	
7	8.1	12.912.95 ¹⁰	13.0	
8	9.0	14.013.95 ⁰¹	13.9	
9	9.2			
10	10.20 ¹² 10.310.1			
11	11.1			
12	11.9			
13	12.8			
14	13.8			

DeR rec 1239

M7 Series 133

Sept 23, 1920

M7 3436 E4-			
1	2.1 ^{1.9}	7.3 7.40 ^{1.1}	pc 10.8
2	3.9 ^{3.7}	8.5 8.50 ^{0.0}	ws 7.2 ^{11.60^{1.1}}
3	4.9 ^{4.7 4.5}	9.7 9.60 ^{1.2}	11.5 11.7
4	4.2 ^{4.0 3.9 3.95^{0.1}}	+h 9.1 9.3 ^{9.20^{1.1}}	12.3
5	4.0 ^{3.8}	9.5 9.50 ^{0.0}	12.0
6	5.2 ^{5.0 4.9}	+h 9.5	12.1
7	5.2 ^{5.0}	10.5 9.5	12.9
8	6.0 ^{5.8}	9.7 9.70 ^{0.0}	13.2
9	7.3 7.1 7.10 ^{0.0}	10.7 10.75 ^{1.0}	13.8?
10	7.1	11.8 11.80 ^{0.0}	
11	7.7 ^{7.60^{1.2}}	+h 11.8	
12	7.5	12.0 12.05 ^{0.1}	
13	7.2	12.1 12.10 ^{0.0}	
14	7.7	12.0 12.05 ^{0.1}	
15	7.5	12.5 12.50 ^{0.0}	
16	8.1	12.1 12.15 ^{1.0}	
17	8.9 ^{8.80^{1.2}}	12.7 12.80 ^{1.1}	
18	9.2	13.3 13.30 ^{0.0}	
19	9.1	13.8 13.85 ^{0.1}	
20	9.3		
21	9.7		
22	10.3		
23	10.5		
24	10.7		
25	11.1		
26	11.5		
27	11.7	31 13.3	
28	12.3	32 13.8?	
29	12.7		

Ser 139

M7 Series 133
Sept 23, 1920

		Diff		Diff		Diff
1	3.0 ^{2.8}	3.96	4 _h	10.2 ^{10.05 2.1}	11.9	-5.14
2	3.1 ^{2.9}	3.98	4 _h	9.9	12.0	-5.12
3	4.2 ^{4.0}	3.51	4 _h	10.5	13.0	-5.49
4	4.3 ^{4.1}	3.46	4 _h	10.5	13.0	-5.44
5	4.5 ^{4.3}	3.47	4 _h	10.7	13.1	-5.33
6	6.0 ^{5.8}	2.41	10.9 ^{10.95 1.0}	11.0	13.7?	-5.49
9	6.3 ^{6.1}	2.49	11.9 ^{11.95 1.0}	12.0		
10	6.7 ^{6.5}	2.40	12.3 ^{12.30 0.0}	12.3		
12	7.5 ^{7.3 7.53 2.03}	1.81	13.1 ^{13.05 1.0}	13.0		
13	8.9	0.79	8 _h			
14	9.2	0.86				
16	10.5	0.02				
17	10.7	0.08				
19	10.9	0.03				
21	11.3	-0.04				
22	11.5	+0.04				
23	11.9	-0.07				
24	12.2	-0.04				
25	12.5	-0.17				
26	13.0	-0.32				
27	13.5	-0.38				
28	13.8	-0.52				

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September 29, 1920

Sheet

S.R.

Diff	18501	16882	me	16885	h ₅₆	mean	h ₅₆	mean	pc	h ₅₆	mean	Diff	
4.69	5	2.0	18	180	7.9	7.85	7.8	7.85	9.7	10.1	9.90	-3.41	
4.21	6	2.9	29	290	8.7	8.80	8.9	8.95	10.8	11.0	10.90	-3.79	
3.38	8	4.8	4.9	485	11.3	11.20	11.3	11.00	11.10	12.7	13.1	12.90	-4.67
2.46	8	5.0	5.8	575	12.0	12.05	12.1	12.05	12.05	13.5	13.50	-4.67	
3.08	9	5.9	6.1	6.05	12.3	12.40	12.5	12.30	12.35	13.9	13.90	-4.88	
2.97	10	6.2	7.0	7.10	12.8	12.90	13.0	13.10	13.00				
2.50	11	7.2	7.45	7.4	7.5	7.5	7.48	13.3	7	13.50	13.50		
2.38	12		8.20	8.1	8.3	8.2	8.20						
2.10	13		8.60	8.5	8.7	8.9	8.75					Diff	
1.90	14		9.40	9.3	9.5	9.5	9.45					-1.36	
1.63	15			10.0	10.1	10.05						-1.77	
1.35	16			10.7	10.5	10.60						-2.87	
1.03	17			11.7	11.5	11.60						-3.22	
0.46	18			12.3	12.1	12.20						-3.33	
0.22	19			13.0	12.8	12.90						-3.45	
-0.17	20			13.9	13.5	13.70						-3.64	
-0.36	23			7	14.0	14.0							
-0.13	25												

September 29 1920

Sc R

Diff. Magn	Magn	MC 16883	MC 16884	Mean	CW	MC 16884	Mean	PC	MC 16884	Mean
		B	B	Mean	CW	B	Mean	PC	MC 16884	Mean
	6.28	1.8 1.6	1.5	1.50	4.78	6.3 6.20 6.1	5.10	5.02	7.1	7.3 7.20
		B	B			6.5 5.95 5.9	6.45	6.32	9.1	9.1 9.10
						6.2 6.1	6.25	6.10	8.8	8.9 8.85
	6.54	1.9 2.1	1.9	1.90	4.64	6.3 6.30 6.3	6.40	6.35	9.40	9.3 9.35
6.60	6.56	2.0 2.2	1.9	1.95	4.61	8.1 8.05 8.0	8.00	8.02	10.2	10.3 10.25
6.77	7.21	3.1 3.3	3.1	3.10	4.11	8.1 8.15 8.1	8.40	8.29	10.7	10.80 10.85
7.40	7.61	3.9 4.1	3.7	3.80	3.81	9.5 9.50 9.5	9.40	9.45	12.2	12.1 12.15
7.74	7.69	4.0 4.2	3.9	3.95	3.74	10.1 10.05 10.0	10.20	10.12	12.5	12.60 12.55
8.05	8.10	4.7 4.9 4.7	4.6	4.60	3.50	10.7 10.70 10.7	10.85	10.78	12.9	13.0 12.95
8.72	8.36	4.9 5.1	5.1	5.00	3.36	11.8 11.85 11.8	11.95	11.90	13.8	14.0 13.90?
8.87	8.96	6.1 6.3	5.9	6.00	2.96	12.5 12.60 12.5	12.7	12.70		
9.50	9.05	6.3 6.5	6.00	6.15	2.90	12.9 12.90 12.9	13.10	13.00		
9.50	8.94	6.1 6.3	5.8	5.95	2.99	12.9 12.95 12.9	13.05	13.00		
9.29	8.60	5.5 5.7	5.3	5.40	3.20	12.1 12.15 12.1	12.05	12.10		
	9.77	7.3 7.5 7.30	7.3	7.25	7.28	14.0 13.9 13.95	7	13.75		
10.09	9.63	7.1 7.3 7.10	7.1	7.1	7.10	13.5 13.65 13.5	13.70	13.78	PC	PC
10.54			8.5 8.7	8.55	1.99				CW	Magn
10.20			8.0 8.0	8.00	2.20					
10.84			9.1 9.0	9.05	1.79					
11.10			9.7 9.40	9.55	1.55					
11.40			10.1 10.1	10.10	1.30					
11.38			10.0 10.1	10.05	1.34					
11.85			11.0 11.1	11.05	0.80					
12.27			11.5 11.9	11.70	0.57					
12.70			12.9 12.7	12.80	0.10					
13.26			13.40 13.8	13.60	0.34					

10120

BeR

Sept 28, 1920

Diff Cu.	mc 16884 Nova Cygni No 3	+17	Pc
	8 ¹ 13	5.1 5.10 5.1	7.3
	15 1.7	6.5 6.45 6.4	9.1
	h B	6.3 6.25 6.2	8.9
	19 2.1	6.5 6.40 6.3	9.3
	19 2.1	7.9 8.00 8.1	10.3
-142	31 3.3	8.3 8.40 8.5	10.80 10.7 10.9
-152	37 3.9	9.3 9.40 9.5	12.1
-203	37 4.1	10.3 10.20 10.1	12.60 12.5 12.7
-238	46 4.8	10.8 10.85 10.9	13.0
-273	dbl. 10		
	5.1 5.3	12.0 11.95 11.9	14.0 ? ft
-318	5.3 5.5	12.0 12.05 12.1	
-341	59 6.1 6.00	13.1 13.10 13.1	
-350	58 6.0	13.1 13.05 13.0	
-350	59 6.1 1723	12.7 12.80 12.9	
-323	73 7.1 7.3	7	
	7.1	13.9 13.90 13.9	
-369	8.50 8.7 8.3		
	8.0		
	9.0 9.40 9.5 9.3		
	10.1		
	10.1		
	11.1		
	11.9		
	12.7		
	13.8		

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preceding
page.

Sept 28, 1920

L & R

MC	16885 ^{mc}	Pole		PC
5 ^{1.8}	Sc 1 16891	13	2.755	10.1
6 ^{2.9}		3.1	7.8 8.95	11.0
8 ^{4.9}		4.6	11.0 11.00	13.1
9 ^{5.8}		5.7	12.0 12.05	7
10 ^{6.1}		5.9	12.3 12.30	
11 ^{7.1}	7.1 7.3 7.10	7.1 6.85	13.1 13.10	
12		7.5 7.5	13.5 13.50	
13		8.2 8.2		
14		8.9 8.8		
15		9.5 9.5		
16		10.1 10.1		
17		10.5 10.5		
18		11.5 11.3		
19		12.1 12.1		
20		12.8 12.5		
23		13.5 13.3		
25		14.0 13.9		

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1:15

10-30

ScR

Sept 29, 1920

Diff.	mc 16891	Se 1	Se 2	Mean	Diff.	mc 16891	Se 1	Se 2	Mean	Diff.	mc 16891	Se 1	Se 2	Mean	Diff.
	5	13	2.3 2.5 2.40	3.1	2.75 - 0.31	6.3	6.30	6.3	7.30	6.80	8.4	8.8	8.60	-2.11	
4.36	6	2.5 2.7		3.1	2.75 - 0.97	8.1	8.05	8.0	8.10	8.08	9.7	9.9	9.80	-2.69	
3.93	8	4.2		4.6	4.30 - 2.05	10.0	10.05	10.1	10.50	10.28	12.1	11.5	11.30	-3.07	
3.48	9	5.2		5.7	5.35 - 2.77	11.3	11.30	11.3	11.90	11.60	12.2	12.7	12.45	-3.62	
3.42	10	5.5		5.9	5.60 - 2.88	11.7	11.70	11.7	12.10	11.90	12.7	12.9	12.80	-3.78	
2.97	11	6.5		6.85	6.58 - 3.30	12.7	12.75	12.8	12.95	12.85	13.9		13.9	-4.35	
2.64	12	6.9 6.95		7.0	7.5 7.22 - 3.59	13.5	13.50	13.5	13.40	13.45					
2.35	13			7.7	8.2 7.95 - 3.65	13.9	13.95	14.0		13.95					
2.20	14			8.1	8.8 8.45										
1.88	15			8.9	9.5 9.20										
1.70	16			9.3	10.1 9.70										
1.43	17			9.9	10.5 10.20										
0.96	18			10.9	11.3 11.10										
0.52	19			11.7	12.1 11.90										
0.48	20			12.2	12.5 12.35										
0.19	23			13.0	13.3 13.15										
0.12	25			13.6	13.9										
	26			7											

Sept 29, 1920

+ .13

Diff. mag.	mag.	sc1	sc2	MC 16889	Mean	Cu.	Diff. Cu.	sc1	sc2	MC 16890	Mean	sc1	sc2	MC 16890	Mean	sc1	sc2	MC 16890	Mean	P.C. Cu.
		1.7	1.5	B	1.5	1.55	.	4.8	4.95	4.80	4.78	6.1	6.0	5.9	6.00	.	.	.	.	.
.	.	1.9	1.7	1.60	1.5	1.55	.	6.3	6.20	5.95	6.08	8.0	7.8	7.90	.	.	.	.	.	.
.	.	1.9			B	.	.	5.9	5.9	5.85	5.88	7.40	7.5	7.3	7.1	7.25	.	.	.	.
.	.	2.1			1.9	1.90	.	6.3	6.5	6.10	6.25	8.1	7.8	7.95	.	.	.	.	.	.
6.80	.	2.0			1.7	1.75	-0.70	7.5	7.60	7.50	7.55	8.9	8.8	8.85	-2.26	.	.	.	.	.
6.90	7.14	3.0			2.7	2.75	4.39	-1.00	8.5	8.40	8.3	7.90	8.15	9.7	9.5	9.60	-2.52	.	.	.
7.60	7.37	3.4			3.0	3.10	4.27	-1.60	9.3	9.30	9.3	9.20	9.25	10.5	10.3	10.40	-2.82	.	.	.
7.78	7.70	3.8			3.6	3.60	4.10	-1.97	10.0	10.05	10.1	9.95	10.00	10.9	10.8	10.85	-2.98	.	.	.
8.24	8.28	4.7	4.5		4.4	4.50	3.78	-2.26	10.7	10.70	10.7	10.50	10.60	11.75	11.1	11.52	-3.26	.	.	.
9.01	8.54	5.1			4.8	4.85	3.65	-2.91	11.9	11.90	11.9	11.95	11.92	12.90	12.5	12.70	-3.74	.	.	.
9.08	8.72	5.5	5.1		5.2	5.20	3.52	-3.00	11.9	11.95	12.0	12.20	12.08	13.9	12.8	12.85	-3.81	.	.	.
9.41	9.10	6.0			5.7	5.85	3.25	-3.24	12.7	12.80	12.9	12.50	12.65	13.60	13.5	13.55	-4.16	.	.	.
9.31	9.04	6.0			5.7	5.75	3.29	-3.14	12.7	12.70	12.7	12.20	12.45	13.7	13.2	13.45	-4.11	.	.	.
9.24	9.01	6.0			5.6	5.70	3.31	-3.08	12.7	12.60	12.5	12.05	12.32	13.7	13.3	13.3	-4.04	.	.	.
9.65	9.85	7.3	7.15		7.2	7.10	7.12	2.73	-3.40	7		13.05	13.05					.	.	.
10.03	9.71	7.1	6.90		6.9	6.9	6.90	2.81	-3.62	13.9	13.90	13.9	13.40	13.65				.	.	.
10.29	10.44	7.95			8.3	8.0	8.12	2.32	-3.71			14.07	14.0					.	.	.
10.12		7.8	7.8		7.8	7.8	7.60	2.52										.	.	.
10.85		8.9	8.7		8.9	8.7	8.80	2.05										.	.	.
11.08		9.3	9.1		9.3	9.1	9.20	1.98										.	.	.
11.45		10.0	9.7		10.0	9.7	9.85	1.60										.	.	.
11.38		9.8	9.7		9.8	9.7	9.75	1.63										.	.	.
11.86		10.9	10.7		10.9	10.7	10.75	1.11										.	.	.
12.09		11.3	11.1		11.3	11.1	11.20	0.87										.	.	.
12.72		12.7	12.0		12.7	12.0	12.35	0.37										.	.	.
13.25		13.3	12.8		13.3	12.8	13.05	0.20										.	.	.
13.82		13.9	13.5		13.9	13.5	13.70	0.12										.	.	.
14.14		14.0	14.0		14.0	14.0	0.14											.	.	.

1.30
Bo R

Sept 29, 1920

+ .10

P.C. cu.	P.C. mag.	mc 16890	Nova Cygni No 3	P.C. 5.9
		8.1	4.8	6.19
		13	4.80	6.19
		1.5	5.9	7.8
		1.7	6.2	7.1
		13	5.9	7.8
		1.9	6.1	7.1
		2.1	6.1	7.8
		1.7	6.3	8.8
-2.26	6.59 11.11	1.9	7.5	9.5
		2.7	7.50	10.3
-2.52	7.08 12.12	2.9	7.9	10.8
		3.0	7.90	11.1
-2.82	7.58 13.22	3.2	9.1	12.5
		3.6	9.20	12.8
-2.98	7.87 13.83	3.8	9.3	13.5
		4.4	9.9	13.2
-3.26	8.26 14.78	4.6	9.95	13.3
		4.8	10.0	
		5.0	10.5	
		5.2	10.50	
-3.74	8.96 16.96	5.4	12.0	
		5.7	11.95	
-3.81	9.04	5.9	12.3	
		5.7	12.20	
-4.16	9.39 17.11	5.9	12.5	
		5.6	12.50	
-4.11	9.34 17.11	5.8	12.1	
		7.1	12.3	
-4.04	9.26	7.3	12.05	
		7.10	13.0	
		7.1	13.05	
		6.9	13.1	
		7.95	13.3	
		8.0	13.40	
		7.40	13.5	
		7.3		
		8.7		
		9.1		
		9.7		
		9.7		
		10.60		
		10.7		
		11.1		
		12.0		
		12.8		
		13.5		
		14.0		

Sept 29, 1920

be R

ML 16 891		Pole		h		pc	
5	5.1	5.2		7.3	7.3	8.8	
6	3.1	3.3		8.1	8.1	9.9	
8	4.6	4.8		10.5	10.5	11.5	
9	5.7	5.9		11.9	11.9	12.7	
10	5.9	6.1		12.1	12.1	12.9	
11	6.7	6.85	7.0	12.8	12.95		
12			7.5	13.3	13.4		
13			8.2				
14			8.8				
15			9.5				
16			10.1				
17			10.5				
18			11.3				
19			12.1				
20			12.5				
23			13.3				
25			13.9				

3.30

10-15

M7 Series

see remarks p 39

Oct 5, 1920

X	S ₀₁	S ₀₂	g	L	pc
1	2.5 2.3		8.3	8.40 ⁰¹	11.1
2	3.1 2.9		9.1	9.20 ⁰¹	11.8
3	3.0 2.8		9.3	9.20 ⁰¹	11.9
4	3.5 3.3		9.8	9.80 ⁰⁰	12.3
5	5.1 4.9		tp	tp	13.0
7	4.8 4.6		10.7	10.75 ⁰⁰	12.8
8	6.1 5.9		11.7	11.70 ⁰⁰	13.7 ?
9	6.5 6.3		12.0	12.05 ⁰¹	7
10	7.0 6.8 7.00 ⁰²	7.2	12.3	12.40 ⁰¹	
11		8.15 ⁰² 8.1	12.7	12.70 ⁰⁰	
12		9.1	13.0	13.10 ⁰¹	
13		9.5	13.5	13.50 ⁰⁰	
15		10.1	7		
16		10.5			
17		10.9			
18		11.8			
19		12.1			
20		12.3			
21		13.0			
22		13.9 ? ft.			

L.R. sec #39

M7 Series

Oct 5, 1920

160K	M7 4711	160K	R Micro	pc
1	39.3.7		10.50 ⁰⁰	12.4
2	6.15.9		11.95 ¹⁰	13.7
3	7.16.9 6.90 ⁰⁰		12.50 ⁰⁰	7
4		8.1	12.59 12.59	
5		8.1	12.95 ¹⁰	
6		9.1	13.00 ⁰⁰	
7		10.0	13.70 ⁰⁰	
8		10.5		
9		10.7		
10		11.0		
11		11.3		
12		12.0		
13		12.2		
14		12.8		
15		13.40 ¹¹		
		13.3 13.5		

Sequence not in center of plate images elongated

ScR see p 39

M7 Series
Oct 5, 1920M7 4711
Ser 1 Ser 2
R Micro a 4.1 3.9

b 5.1 4.9

c 6.0 5.8

d 7.3 7.1 7.10 00

e 8.5 8.3 8.35 00

f 9.0

g 9.9

h 10.5

k 10.5

l 11.1

m 11.9

n 12.60 01
12.5 12.7

o 13.0

p 13.9

q 14.5

7 10.05 01

10.0 10.1

11.1 11.1

12.0 12.1

12.5 12.5

13.5 13.5

14.0 14.0 00

14.0 14.0 ? ft

pc

12.9

13.8 ?

Sequence not in center of plate - images not circular

See p 39

M7 Series
Oct 5, 1920

M7 4712 D. 11		h		Pc	
1	2.0 1.8	9.0	9.00 00	9.0	11.3
2	2.9 2.7	9.3	9.30 00	9.3	11.5
3	2.9 2.7	9.3	9.40 11	9.5	11.9
4	3.1 2.9	9.7	9.70 00	9.7	11.9
5	2.9 2.7	9.7	9.65 13	9.7	12.0
6	3.1 2.9	+	9.5		12.0
7	3.4 3.2	10.1	10.10 00	10.1	12.3
8	3.3 3.1	10.1	10.05 10	10.0	12.00 11
9	4.1 3.9	10.5	10.50 00	10.5	12.7
10	4.0 3.8	10.5	10.60 11	10.7	12.9
11	4.1 3.9	11.1	11.05 10	11.0	13.1
12	5.2 5.1	11.5	11.50 00	11.5	13.60 11
13	5.7 5.5	11.8	11.75 01	7	13.5 13.7
14	6.3 6.1	12.0	12.00 00	12.0	14.0?
15	7.3 7.1	12.5	12.50 00	5	
16	7.4	12.7	12.70 00	12.7	
17	7.6 7.7	13.0	13.00 00	13.0	
18	8.0 7.9	13.0	13.00 00	13.0	
19	8.3 8.7	13.0	13.00 00	13.0	
20	8.9 8.7	13.3	13.30 00	13.3	
21	9.1	13.8	13.50 00	13.8	
22	9.0			13.5	
23	9.7				
24	9.8				
25	10.1				
26	10.3 10.5				
27	10.7				
28	11.1				

See p 39

M7 Series

Oct 5, 1920

M7 4712 (cont)

sec 2

29 11.5

30 11.7

31 12.1

32 12.3

33 12.2

34 12.5

35 12.7

36 13.1

37 13.5

38 13.8

39 14.0?

40 7

De R ^{see 139}

M7 Series

Oct 5, 1920

M7 4713 U. Canis		pc	
A	5.1	9.5	11.1
a	3.1	6.7	6.60
b	4.3.9	10.1	10.20
c	4.03.8	10.1	10.20
d	6.7 6.5	12.0	12.05
e	8.3 8.1 8.10 8.1	12.1	12.1
f	9.1		
g	10.0		
h	10.7		
i	11.5		
j	11.7		
k			
l			
m	13.3		
n	7		

This peg is not plainly marked on B 30333
 the only plate on which I find it.
 E. 72.

ScR ^{see p39}

M7 Series

Oct 5, 1920

M7 4716 Dark			
Sc ₁	Sc ₂		PC
1 13		5.5 5.3 5.30 ⁰⁰ 5.3	9.5
2 2.9 2.7		+h 9.1	11.1
3 4.9 4.7		+h 10.5	12.5
4 6.2 6.0		11.2 11.25 ⁰¹ 11.3	13.7
5 8.0 7.8 7.80 ⁰⁰ 7.8		12.7 12.80 ¹¹ 12.9	
6 8.7		13.5 13.50 ⁰⁰ 13.5	
7 9.1		13.9 13.80 ¹² 13.7	
8 9.5		7	
9 9.8			
10 10.3 10.1	10.20 ¹²		
11 10.5			
12 10.7			
13 10.9			
14 11.2			
15 11.7 11.5	11.60 ¹²		
16 12.0			
17 12.5			
18 13.1			

ber per p39

M7 Series

Oct 5, 1920

M7 4717 bis					
1	2.1 ^{5.1} 1.9 ^{5.2}	1.7 ^{5.2} 1.80 ^{1.2}	7.3	7.40 ^{1.1}	7.5 ^{10.40^{1.1}}
2	2.1 ^{1.9}		7.6	8.1	10.7
3	3.0 ^{2.8}		8.5	8.40 ^{1.2}	8.3 ^{11.1}
4	3.1 ^{2.9}		9.0	9.05 ^{0.1}	9.1 ^{11.7}
5	3.2 ^{3.0}		9.7	9.65 ^{1.3}	9.5 ^{12.1}
6	4.3 ^{4.1}		10.1	10.10 ^{0.0}	10.1 ^{12.8}
8	4.7 ^{4.5}		10.5	10.60 ^{1.1}	10.5 ^{13.0}
9	6.2 ^{6.0} 5.9 ^{5.95^{0.1}}		11.7	11.75 ^{2.0}	11.8 ^{14.0?}
11	6.5 ^{6.3}		11.9	11.95 ^{1.0}	12.0
12	6.8 ^{6.6}		12.3	12.40 ^{1.1}	12.5
14	8.0 ^{7.8} 7.85 ^{0.1}	7.9	12.7	12.90 ^{0.0}	12.9
16	WS 7.8 ^{8.80^{1.2}} 8.7		13.5	13.60 ^{1.1}	13.7
17		9.3			
18		10.1			
20		10.7			
21		11.1			
23		11.9			
24		12.2			
26		12.5			
27		13.5 ^{9.45}			

11.45

Set

October 8, 1920

Sheet 223

10 —	B 50597	Diff	g	h	Diff	pc	Diff
	³⁴ 3.3	3.36	6.0	+h	0.76	8.0 —	1.24
2	+h	.	+h	+h	.	8.1 —	1.22
3	⁴² 4.1 ⁴²⁰	4.2 3.31	+h	6.9	.061	8.9 —	1.39
4		4.2 3.36	7.0 ⁷⁰⁵	7.1	0.51	9.0 —	1.44
5		4.3 3.47	7.3	elong.	0.47	9.0 —	1.23
6		4.7 3.51	7.7	+h	0.51	9.5 —	1.29
9		5.2 3.39	+h	8.1	0.49	10.0 ? —	1.41
10		5.7 3.20	8.7 ⁸⁶⁰	8.5	0.30		
12		6.1 3.24	^{Scw.} 9.2	+h	.		
18		6.5 3.19	7		.		
14		6.9 3.16					
16		7.3 3.22					
17		7.5 3.28					
		⁷⁶⁰ 3.03					
19		7.7 7.5					
		³⁴⁴					
21		7.9 3.36					
		³⁴⁴					
22		8.1 ^{Scw.}					
23		8.5 3.33					
24		9.0 3.16					
25		9.3 3.03					
26		9.7 2.98					
27		9.9 3.22					

Plate quite badly streaked.

Oct 11, 1920

alt. +0.07

350598

			Cu	Magn		Cu	pc	Cu
1	3.2	3.1	3.27	6.47	7.7	7.9	0.46	8.26
2	3.9	3.95	3.39	7.34	8.7	8.7	0.32	9.02
3	4.8	4.95	3.39	8.34	9.5	8.7	0.32	9.02
4	6.2	6.0	3.22	9.32				
5	6.5		3.18	9.68				
6	7.2		3.20	10.40				
7	8.1		3.34	11.44				
8	8.5		3.28	11.78				
9	9.3	9.5	3.05	12.45				
10	9.8		2.97	12.77				
11	n.s.							

Copied 35.1 40

Plate badly streaked - images poor - hazzy at one end

10-45

11.30
SevOct. 13, 1920

MY 5314		Diff		Diff		pc	
1	801 B	802	.	4.7 4.80	4.9	2.05	7.5 - 0.65
2	B	.	.	5.9 5.90	5.9	1.81	8.3 - 0.59
3	2.1 2.0	6.01	.	6.5 6.50	6.5	1.61	8.9 - 0.79
4	2.2 2.1	6.00	.	6.3 6.40	6.5	1.80	9.0 - 0.80
5	2.4 2.6 2.50 2.3 2.5	6.06	.	6.9 6.95	7.0	1.61	9.5 - 0.94
6	3.1 3.0	5.84	.	7.5 7.50	7.5	1.44	
7	3.4 3.3	5.80	.	7.8 7.80	7.8	1.40	
8	3.9 3.8 2.95	4.0 5.65 4.60 5.21	.	8.3 8.40	8.5	1.20	
9		4.7 4.5	.	8.7 8.70	8.7	1.11	
11		5.1 5.01 5.40 4.76	.	9.3 9.20	9.1	0.91	
12		5.3 5.5	.	9.3 9.30	9.3	1.06	
13		5.7 4.96	.	9.7 9.70	9.7	0.96	
15		6.3 4.69	.				
16		6.5 4.73	.				
17		6.8 4.76	.				
19		7.3 4.71	.				
20		7.7 4.56	.				
21		8.3 4.58	.				
22		8.5 4.74	.				
23		8.80 4.60 8.9 8.7	.				
24		9.2 4.70	.				
25		9.3 4.78	.				
26		7 .	.				

Oct 13, 1920

alt. +04

Dev

M7 5318		Bart		14 0 380 40		Cu		PC		Cu	
1	501	502	Cu	Magn	34	3.1		6.4			
2	13				5.1	5.20	5.3	1.96	7.10	7.8	7.5 -0.69 6.96
3	24		6.12	8.52	7.0	6.95	6.9	1.50	8.45	9.0	-0.79 8.21
4	28		6.03	8.83	7.7	7.70	7.7	1.31	9.01	9.8	-0.84 8.96
5	35		5.82	9.32	7.9	7.90	7.9	1.25	9.15		
6	44	44.5	4.5	5.40	9.85	8.5	8.60	8.7	1.05	9.65	
7			5.7	4.92	10.62	9.3	9.30	9.3	0.95	10.25	
8			6.5	4.77	11.27						
9			6.9	4.69	11.59						
10			7.40	4.61	12.01						
11			7.3	4.60	12.30						
12			7.7	4.60	12.30						
13			8.3	4.61	12.91						
14			8.9	4.63	13.53						
15			9.3	4.66	13.96						

Copied 35:140

Oct 13, 1920

Set

	117 8319	Diff		Diff	pc	Diff
1	13		5.1 5.10	5.1	2.10	7.9 - 0.70
3	1.9	6.09	6.5 6.60	6.7	1.49	9.0 - 0.91
4	13		6.3 6.30	6.3	1.42	8.5 - 0.78
8	2.4 2.6 2.50	6.47	7.7 7.70	7.7	1.27	9.8 - 0.83
9	3.1	6.02	8.5 8.40	8.3	0.82	10.0 - 0.78
11	3.7 3.85	3.9 5.66	8.7 8.70	8.7	0.81	
12		4.1 5.65	9.0 8.95	8.9	0.80	
14		5.47	8.9 8.95	9.0	1.02	
15		5.1 5.26	9.3 9.40	9.5	0.96	
16		5.8 5.02	9.3 9.30	9.3	1.22	
18		5.80 4.88	9.7	7	0.98	
21		6.5 4.92				
22		7.20 4.62				
25		7.3 7.1				
26		7.8 4.46				
27		8.1 4.63				
28		8.5 4.81				
29		9.20 4.66				
30		9.3 9.1				
		9.5 4.48				
		9.8 7.5				

1:05

10-30

Se V

B Series 439

Oct 18, 1920

Sheet 228

B 49673 6.5			Diff		pc		Diff	
1	3.1	3.0	4.06	5.99	h	126	7.7	-0.54
2	3.6	3.5	4.42	7.0	7.1	0.97	8.7	-0.68
4	3.6	3.5-3.7	4.50	7.0	+h	120	8.9	-0.70
5	4.2	4.25	4.3	7.7	+h	124	9.5	-0.56
6			4.7	8.0	8.19	1.11	Sev.	
8			5.0	8.5	+h	1.05		
9			5.3	9.0	9.19	+0.67		
10			5.7	9.5	9.5	+0.31		
12			5.9	7.7	9.7			
13			6.3					
15			6.9					
16			7.3					
18			7.7					
19			8.0					
20			8.1					
21			8.5					
22			8.7					
23			8.9					
24			9.3					
25			9.8					
4a			4.1	+h	7.3	1.07	9.1	-0.73

Dev

B Series 439

Oct 18, 1920

alt. corr. -92

Copied 28, 198

B 49 674 Pale				Cu. Magn.				P C 400 ¹ / ₂				Cu. Magn.			
	Sc 1 2.3	Sc 2			g	h									
a	2.2				5.1	elong.		7.1	6.9						
b	3.3	3.4 3.2	3.30 ¹ / ₂		4.18	7.48	+p	5.9	7.15	7.5	-0.52	6.98			
c	3.1	3.2			4.13	7.33	+p			7.90 ¹ / ₂		-0.58	7.32		
d	3.1	3.2			4.13	7.33	6.7	+p	1.23	7.93	8.3	-0.62	7.68		
e	3.9	4.0 4.00 ⁰⁰	4.0		4.44	8.44	6.7	+p	1.17	8.87	9.3	-0.67	8.63		
e*	3.3	3.4			4.21	7.61	elong	elong			7.8	-0.57	7.23		
f	3.9	4.0			4.44	8.44	+p	+p		9.0	-0.67	8.33			
g	4.3	4.4 4.40 ⁰⁰	4.4		4.51	8.91	+p	+p		9.20 ¹ / ₂	-0.67	8.53			
h			4.5		4.52	9.02	+p	+p		9.1	-0.67	8.43			
k			5.2		4.45	9.65	+p	+p		9.8					
l			5.7		4.34	10.04	8.7	+p	0.88	9.58					
m			6.1		4.28	10.38	9.2	+p	0.59	9.79					
n			6.3		4.24	10.54									
o			6.5		4.20	10.70									
p			6.7		4.19	10.89									
q			7.0		4.14	11.14									
r			7.2		4.13	11.33									
s			7.60 ¹ / ₂		4.10	11.70									
t			7.75 ⁰ / ₂		4.10	11.85									
u			7.9		4.10	12.00									
w			8.3		4.13	12.43									
x			8.7		4.17	12.87									
y			8.9		4.19	13.09									
z			9.3		4.23	13.53									
α			9.5		4.25	13.75									
β			9.8		4.28	14.08									

All images poor - Diff. images badly elongated.

B Series 439

Cupid BK 35 p. 40

Bel

Oct 18, 1920 alt. corr. +.07

From Carte 10-64.5* alt. corr. +.19			B 49675			Carte 10 v - 9.6			Cu. magn. PC		
Cu. magn.			Sec 1	Sec 2	Cu. magn.						
3.60	7.60	1	4.0	4.0	4.44	8.44	5.75	5.80	5.9	1.25	7.05
3.57	8.11	2	4.7	4.5	4.53	9.13	7.3	7.4	1.20	8.50	9.7
3.45	8.65	3	5.2	4.5	9.65	8.7	8.20	8.3	1.09	9.29	
3.43	8.93	4	5.5	4.38	9.88	8.8	8.90	9.0	0.78	9.68	
3.40	9.40	5	6.0	4.29	10.29	9.5	Sup	0.38	9.88		
3.38	9.88	6	6.5	4.20	10.70						
3.38	10.58	7	7.1	7.3	4.13	11.33					
3.40	10.90	8	7.5	4.11	11.61						
3.49	11.79	9	8.3	4.13	12.43	(1)	5.80			8.9	-1.55
3.52	12.02	10	8.5	4.15	12.65	(2)	7.3	0.56	7.86	9.7	-1.68
3.60	12.50	11	8.9	4.19	13.09	(3)	8.20	0.45	8.65		8.02
3.62	12.62	12	9.0	4.20	13.20	(4)	8.90	0.29	9.19		
3.74	13.24	13	9.5	4.25	13.75	(5)	9.5	0.13	9.63		
3.80	13.50	14	9.7	4.27	13.97						
3.80	13.50	15	9.7	4.27	13.97						
		16	7								

alt. corr.
From Carte 10 - 64.5 +.19

* Reduce plate by means of Carte Reg. 10^h, -64°.5, B 49676.
 For magnitudes of the latter region, see BK 35, page 185.
 Reduce also in the usual way, by means of Reg. C 5.
 Plate streaked

B Series 439
Sheet 228
Oct 18, 1920

Copied BK 35 p. 184

alt. corr. -12

8-1

B 49 676		Date 10 0-64		Diff. Cu. Magn. P.C.		Diff. Cu. Magn.	
1	3.0 3.1	3.76 4.18 7.28	along	6.1 0.76 1.25 7.35	8.1	-1.24 -0.60	7.50
2	3.4 3.5	3.74 4.26 7.76	6.8	6.1 0.44 1.22 8.02	8.9	-1.66 -0.67	8.23
3	4.3 4.4 4.35	4.3 3.37 4.50 8.85	+p	+p	9.3 9.40	-1.68 -0.67	8.73
4	1	4.5 3.67 4.52 9.02	7.5 7.7	+p 0.57 1.18 8.78	9.7	-1.53 -0.67	9.03
5		5.5 3.58 4.38 9.88	8.7	-6.52 0.88 9.58			
6		6.1 3.16 4.27 10.37	9.2 9.10	9.0 0.16 0.65 9.75			
7		6.3 3.38 4.24 10.54	9.5	+p 0.18 0.38 9.88			
8		7.0 3.42 4.14 11.14					
9		7.5 3.35 4.11 11.65					
10		7.9 3.32 4.10 12.00					
11		8.1 3.61 4.12 12.22					
12		8.5 3.60 4.15 12.65					
13		8.9 3.56 4.19 13.09					
14		8.9 3.64 4.19 13.09					
14a		9.3 9.5 3.80 4.24 13.64					
15		9.8 3.80 4.28 14.08					

Plate struck

12:05

80-20

Dev

B Series 511

Oct 18, 1920

Sheet 229

B 50477		B 50477		B 50477		B 50477	
Sec 1	Sec 2	Diff.	g	h	pc	Diff.	
1 2.9		3.76	4p	4p	7.5	-0.74	
2 4p		.	4p	4p	7.7	-0.82	
3 4p		.	4p	4p	8.3	-0.79	
4 3.5		3.96	4p	4p	8.5	-0.94	
5 3.2		4.47	4p	4p	8.3	-0.53	
6 3.8		4.31	4p	4p	8.7	-0.49	
9		4.24.39			9.60		
10		4.54.40			9.7	9.6 -1.01	
12		4.74.64					
13		5.24.49					
14		5.54.56					
16		5.84.72					
17		6.14.68					
19		6.34.63					
21		6.84.46					
22		7.14.44					
23		7.54.33					
24		8.04.16					
25		8.34.03					
26		8.60 8.54.08					
27		8.74.42					
28		8.84.48					
29		9.20 9.19.34.08					
30		9.60 9.577 4.27					

All images very poor p.c's elongated.
Diff. images large & hazy.

B Series 511

Copied BK 35:158

Dev

Oct 19, 1920

Alt. corr. -.04

From B 50481 Alt. corr. -.06	B 50479	Carte 9	0 - 51.6	Cu. Magn.	PC	Cu. Magn.
1	2.4	4.08	7.48	6.0		
2	2.3			7.3	-0.80	6.50
3	3.3	4.08	7.48	8.2	-0.78	7.42
4	4.2	4.15	8.50	9.1	-0.81	8.29
5	5.3	4.20	9.50			
6	5.9	4.20	10.10			
7	6.1	4.19	10.29			
8	6.8	4.13	10.93			
9	7.1	4.10	11.20			
10	7.5	4.06	11.56			
11	7.9	4.03	11.93			
12	8.3	4.00	12.30			
13	9.0	3.97	12.97			
14	9.5	3.92	13.52			

Curve from B 50481
Alt. corr. -.06

1	4.00			6.0		
2	5.05			7.3		
3	6.05			8.2		
4	7.00	1.32	8.32	9.1	-0.93	8.17
5	8.30	0.72	9.02			
6	9.00	0.43	9.43			
7	9.30	0.34	9.64			

Diff images elongated

Cpuid 34:126

B Series 511

Sheet 229

Oct 19, 1920

Alt. corr. +0.2

B 50481		149 K		9.5 - 30.2		Diff. Cu. Magn.		Diff. Cu. Magn.	
Se1	Se2	D. 86 BK 482 Cu. Magn.	P 1581	h	Diff. Cu. Magn.	h	Diff. Cu. Magn.	h	Diff. Cu. Magn.
149 K	1	4.8	3.56	4.19	8.99	7.1	1.26	1.18	8.28
	2	5.5	3.78	4.20	9.70	8.9	8.80	8.70	0.48
	3	5.9	3.76	4.20	10.10	9.3	9.30	9.30	0.69
	4	6.3	3.97	4.18	10.48				9.49
	5	6.8	4.03	4.13	10.93				
	6	6.7	4.10	4.14	10.84				
	7	7.1	3.94	4.10	11.20				
	8	7.5	3.96	4.06	11.56				
	9	7.5	3.89	4.06	11.56				
	10	7.7	3.96	4.05	11.75				
	11	7.9	4.13	4.03	11.93				
	12	8.9	3.93	3.97	12.87				
	13	9.3	3.86	3.94	13.34				
	14	7							

Dev

B Series 511

Oct 19, 1920

Alt. corr. +0.2

* B 50481		Centre				PC
Sc1	Sc2	ex.	g	h		
1	4.2		6.7	+h		8.9
2	4.3		+h	+h		
3	5.1		+h	+h		
4	5.3					
5	5.7					
6	6.3					
7	6.9					
8	7.3					
9	7.5					
10	8.0					
11	8.7					
12	8.7					
13	9.0					
14	9.5					
15	Sc3					

* Do not reduce. Sequence too far from centre.

Images from all elongated.

Cupid BK 34:17

Sel

B Series 511

Oct 19, 1920

alt. corr. +.03

	B. 50482	12515	9	13-15	
	So1	So2	cu.	magn.	cu. magn. pc
1		5.3	4.20	9.50	8.9501 8.9 0.66 9.61 7
2		5.7	4.20	9.90	
3		6.1	4.19	10.29	
4		6.7	4.14	10.84	
5		7.0	4.10	11.10	
6	ws	7.8	4.10	11.20	
7		7.3	4.09	11.39	
8		7.5	4.07	11.57	
9		7.7	4.05	11.75	
10		7.9	4.03	11.93	
11		9.7	3.92	13.62	
12		9.5	3.93	13.43	
13		ns			
14		ns			

Very poor plate

Scv

B Series 511 sheet 229
Oct 19, 1920

B 50483		B 7		Diff.		pc		Diff.	
Sc1	Sc2	Diff.		g	h				
1 B		4.11		th	th	6.2012	7.7	-0.85	
2 3.6		3.38		th	th	6.3 6.1	8.3	-0.59	
3 4.2 4.3 4.30 °	4.3	3.81		th	th	7.15 °	9.0	-0.89	
4 xh	3.9	4.30		th	th	6.6012 6.7	9.1	-0.90	
5	4.3	4.26		7.59 7.50 °	7.5	1.06	8.5		
6	4.7	4.24		8.1 8.05 °	8.0	0.89			
7	5.1	4.10		th	th	8.5	0.70		
8	5.5	4.10		th	th	8.9	0.70		
9	th			th	th				
11	6.3	3.81							
12	6.3	4.06							
13	6.5	4.16							
15	7.1	3.89							
16	7.3	3.83							
17	7.7	3.86							
17	8.2	3.81							
20	8.5	3.76							
21	9.0	3.88							
22	9.3	3.94							
23	9.7	3.70							
24	7								
25									

Plate badly streaked. Poor Series

12:10

Copied 27.54

B Series 511

Oct 19, 1920

Alt. corr. +.07

B 50484		B 7		Cu. Magn.		h		Cu. Magn.		PC		Cu. Magn.	
1	3.1 ^{3.2}	3.2	4.05	7.25	6.0	+	1.58	7.58	8.0	-0.78	7.22		
2	3.2 ^{3.3}		4.07	7.37	+	+			8.3	-0.78	7.52		
3	+				+	+			8.8	-0.80	8.00		
4	3.9 ^{4.0}	4.0	4.13	8.13	7.1	+	1.18	8.28	9.0	-0.80	8.20		
5		3.9	4.12	8.02	7.1	+	1.18	8.28	8.9	-0.80	8.10		
6		4.0	4.13	8.13	6.9	+	1.25	8.15	8.7	-0.79	7.81		
7		4.3	4.15	8.45	+	+			9.3	-0.83	8.47		
8		4.5	4.17	8.67	+	7.5	1.03	8.53	9.5	9.7			
9		4.6	4.18	8.78	+	7.7	0.96	8.66	9.7				
10	4.4	4.8	4.19	8.99	7.7	7.75	7.8	0.95	8.70	9.8			
11		6.3	6.1	4.19	10.39	9.8	9.80						
12		5.5	4.20	9.70	8.9	8.90	8.9	0.67	9.57				
13		5.7	4.20	9.90	9.0	9.10	9.2	0.61	9.71				
14		5.9	4.20	10.10	9.3	9.30	9.3						
15		6.1	4.19	10.29	9.8	9.80	9.8						
16		6.2	4.19	10.39									
17		6.5	4.16	10.66									
18		6.7	4.14	10.84									
19		7.1	4.10	11.20									
20		7.3	4.08	11.38									
21		7.5	4.06	11.56									
22		7.6	4.05	11.65									
23		7.8	4.03	11.83									
24		8.4	4.00	12.40									
25		8.7	3.98	12.68									
26		8.7	3.98	12.68									
27		9.1	3.96	13.06									
28		9.3	3.94	13.24									
29		9.5	3.92	13.52									

2-10

11-15

Dev

B Series 563

Cpuid BK 35:194

Oct 20, 1920

alt. corr. -12

alt. corr. referred to E8, -12

B 51115		Date 20 0 - 64.5							
Sc 1	Sc 2	Cu.	magn.	h	h	Cu. magn.	pc	Cu. magn.	
1 3.9 ^{4.0}	4.00 ⁰⁰	4.0	3.28	7.28	6.7	+	9.3	-1.47	7.83
2	4.9	3.41	8.31	8.5	+	0.00	8.50		
3	5.1	3.43	8.53	8.7	+	-0.10	8.60		
4	5.5	3.45	8.95	9.2	9.3 9.25 ⁰¹	-0.45	8.80		
5	5.8	3.44	9.24						
6	6.0	3.44	9.44						
7	6.5	3.38	9.88						
8	6.8	3.35	10.15						
9	6.9	3.34	10.24						
10	7.3	3.30	10.60						
11	7.5	3.27	10.77						
12	8.0	3.20	11.20						
13	8.3	3.14	11.44						
14	8.5	3.11	11.61						
15	8.9	3.04	11.94						
16	9.5	2.94	12.44?						
17	Sta								

Plate badly streaked

B Series 563

Copied BK 35:98

Oct

Oct 20, 1920

alt. corr. +.07

alt. corr. referred to E 8, +.07

B 51116		E 8 Carte		20 ^h -23 ^m .5		alt. corr. +.07		alt. corr. referred to E 8, +.07	
1	8.1	8.2	cu. magn.	9	h	cu. magn.	P	cu. magn.	
1	4.0	3.28	7.28	4.4	6.3	along	8.2		
2	5.0	3.42	8.42	7.7	7.7 ⁰⁰	7.7	0.36	8.06	9.5-1.45 8.05
3	5.8	3.44	9.24	9.1	9.1 ⁰⁰	9.1	-0.35	8.75	
4	6.1	3.43	9.53	9.5	9.5 ⁰⁰	9.5	-0.61	8.89	
5	7.0	3.32	10.32						
6	7.2	3.30	10.50						
7	7.5	3.27	10.77						
8	7.8	3.22	11.02						
9	8.3	3.15	11.45						
10	8.3	3.15	11.45						
11	8.5	3.11	11.61						
12	8.5	3.11	11.61						
13	8.8	3.06	11.86						
14	8.8	3.06	11.86						
15	9.0	3.02	12.02						
16	9.5	2.93	12.43						
17	7								
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									

Plates meas in the right order, but by mistake filled in E 8 on wrong page

Plot 231 Series 563

Oct 20, 1920

alt. corr. 00

Bel

	B 51117	Diff.	g - h	Diff.	pc	Diff.
C 1	4.5	3.34	g	h	9.3	-1.46
B 2	4.9	3.92			9.7	-0.88
B 3	4.5	3.49			Close to g	
A 4	4.2	3.39			9.1	-1.51
F 5	4.9	3.36	7.9	+h +0.36	7	
D 6	5.1	3.69	9.3	9.30 00 9.3 -0.51		
E 7	4.9	3.09	8.0	+h -0.01	9.7	-1.71
H 8	5.3	3.29	8.3	8.30 00 8.3 +0.29		
H 9	5.3	3.28	8.5	8.60 11 8.7 -0.02		
Rij 10	5.7					
K 11	5.5	3.42				
L 12	5.5	3.61				
M 13	5.5	3.62				
N 14	6.1	3.41				
P 15	6.3	3.43				
O 16	6.1	3.46				
Q 17	6.5	3.44				
R 18	6.8	3.28				
S 19	7.3	3.24				
T 20	7.35 21	7.2 7.5 3.23				
U 21	7.7	3.06				
V 22	7.9	3.12				
W 23	8.0	3.38				
X 24	8.3	3.22				
Y 25	8.5	3.26				
Z 26	9.0	3.18				
a 27	9.5	2.80				
b 28	9.3	3.04				
c 29	9.7	2.83				

12,20

Diff images too poor to measure

10-

Dev

B Series 557

Oct 22, 1920

Plot 231

B 51041		197 K	193-59.7	Diff.	PC
1	Sc 1 3.4 Sc 2	Diff. 48:89	6.1 6.00 h	5.9 q 1.76	n.s
2	3.3	4.36	8.5? + h	0.23	
3	4.0 4.05 0.1	4.68			
4	4.1	4.56			
5	5.0	4.81			
6	5.3	4.98			
7	5.5	4.50			
8	6.2	4.46			
9	6.5	4.11			
10	7.2	3.84			
11	7.5	3.87			
12	7.8	3.77			
13	8.1	8.60 11			
14	8.5	8.73 59			
15	9.1	3.47			
16	9.8	3.40			

Images poor - plate badly streaked

B Series 557

Oct 22 1920

From B5 1041
alt. corr. +1.4

B 51042

From B5 1042
alt. corr. +2.9

Cu. Magn.	Sec 1	Sec 2	Diff. Magn.	Cu. Diff. Magn. PC	Primary Mean (Corrected for alt.)
	1	2.5 2.6		4.5 4.60 ± 1h	
	2	3.1 3.2	4.45 7.65	4.7	6.0 1.50 7.50
4.59 8.59	3	3.9 4.0 4.00 4.0	4.51 8.51		8.72 01,01
4.64 8.94	4	4.3	4.51 8.81		9.04 04,03
4.70 9.90	5	5.2011 5.3 5.1	4.49 9.69		9.96 08,07
4.70 10.00	6	5.3	4.49 9.79		10.06 08,07
4.70 10.20	7	5.5	4.48 9.98		10.26 08,08
4.58 10.78	8	6.2	4.40 10.60		10.86 06,06
4.30 11.10	9	6.8	4.29 11.09		11.26 02,03
4.25 11.15	10	6.9	4.27 11.17		11.33 04,04
4.15 11.25	11	7.1	4.22 11.32		11.46 07,06
4.06 11.36	12	7.3	4.18 11.48		11.59 09,09
3.98 11.48	13	7.5	4.11 11.61		11.72 10,09
3.88 11.68	14	7.8	4.02 11.82		11.92 10,10
3.80 11.80	15	8.0	3.95 11.95		12.04 10,11
3.70 12.00	16	8.3	3.85 12.15		12.24 10,11
3.51 12.51	17	9.0	3.62 12.62		12.74 09,08
3.49 12.59	18	9.1	3.59 12.69		12.81 08,08
3.40 13.00	19	9.60 ± 1 9.5 9.7	3.40 13.00		13.17 03,03

Images not circular - diff images very poor.
Plate badly streaked.

B Series 557 Plot 231
Oct 22, 1920

B 51043		C 20		0 - 64.5		Diff.	pc
1	2.9 ^{3.0}	4.11	Diff. 35.195	5.1 ^{5.05}	5.0	2.06	n.s.
2	3.4 ^{3.5}	4.58		7.3 ^{7.40}	7.5	0.68	
3	3.7 ^{3.8} 3.85 ^{0.1}	4.51		+1/2	7.7	0.66	
4	4.3	4.42		8.0 ^{8.00}	8.0	0.72	
5	4.6	4.37		+1/2	8.5	0.47	
6	4.9	4.42		9.0	+1/2	0.32	
7	5.3	4.51					
8	5.5	4.36					
9	5.5	4.50					
10	6.0	4.59					
11	6.5	4.31					
12	6.9	4.24					
13	7.0 ^{7.10}	7.2 4.32					
14	7.5	4.06					
15	8.1	3.79					
16	8.5	3.87					
17	9.0	3.55					
18	9.5 ^{9.60}	9.7 3.40					

Plate badly streaked

10' 50

Dev

Copied 35.84

1	7.0	0.82	7.82	0.58	7.58		
2	7.5	0.60	8.10	0.48	7.98		
3	7.8	0.49	8.29	0.41	8.21		
4	8.5	0.25	8.75	0.30	8.80		
5	9.0	0.09	9.09	0.22	9.22		

Oct 26, 1920

Plot 232

Diff. 35: 181

Diff.

Cu. Magn.	pc	Diff.	Cu. Magn.	pc	Diff.
4.50 7.90	1	3.3	3.44 7.49	7.9	-1.06
4.56 8.41	2	3.7	3.68 7.52	8.7	-1.22
4.60 8.70	3		4.1 3.72	9.0	-1.18
4.67 10.42	4		5.75 5.7		
4.46 10.96	5		6.5 3.60		
4.20 11.20	6		7.1 6.9		
3.90 11.60	7		7.7 3.80		
3.98 11.48	8		7.5 3.95		
3.80 11.80	9		8.0 3.66		
3.77 11.87	10		8.1 3.81		
3.64 12.14	11		8.5 3.61		
3.54 12.44	12		8.9 3.63		
3.42 12.92			9.5 3.6		

121

9-20

Dev

M7 Series 140

Sheet 233

Oct 29, 1920

M7 35.8				C9											
Sc 1				Sc 2											
3	13							Diff.	4.9	4.95	5.0	2.09		PC	Diff.
	2.2													8.0	-0.96
4	2.1							5.62	5.8	5.80	5.8	2.02		8.7	-0.98
	2.6														
5	2.5							5.46	6.1	6.15	6.2	1.91		9.1	-1.04
	3.6														
6	2.9	2.8						5.57	6.7	6.80	6.9	1.67		9.5	-1.03
	3.3														
7	3.2							5.74	8.0	8.00	8.0	1.04		7	
	4.0														
8	3.7	4.00	4.0					5.53	8.9	8.80	8.7	0.73			
9								5.59	9.1	9.15	9.2	0.94			
12								5.47							
14								5.29							
15		6.20	6.3	6.1	4.93										
16			6.5		5.10										
17			7.2		4.63										
18			7.9		4.51										
20			8.5		4.26										
21			8.9		4.16										
22		9.00	8.9	9.1	4.40										
23			9.8		3.94										
24			7												
25			7												
14a			6.5												
16a			6.7												
3a			13						5.1	5.20	5.3	2.15		8.0	-0.65
6a	3.2								7.1	7.20	7.3	1.44		9.3	-0.66
	3.1														

M7 Series 140

Dev

Oct 29, 1920

Alt Corr + 06

M7 3519	Carte 17	0-16	pc ⁸⁷⁰
12.8 ⁵¹ 1.9	558	8.58	76.0 ⁶⁰⁵ 6.1 1.98 8.03 8.1 8.3 -0.96 7.24
23.0 ²⁹ 3.8 3.5	558	8.58	7.9 7.85 7.8 1.13 8.98 7
33.9 ³⁷⁵ 3.8 3.5	4.0 5.61	9.36	8.1 8.00 7.9 1.06 9.06
43.6 ³⁵ 3.5	5.60	9.20	8.3 8.30 8.3 0.97 9.27
5	4.1 5.58	9.68	8.7 8.70 8.7 0.83 9.53
6	4.9 5.48	10.38	9.8 9.80 9.8 0.65 10.45
7	5.2 5.38	10.58	
8	5.7 5.23	10.93	
9	6.0 5.12	11.12	
10	6.5 6.7	11.51	
11	7.3 4.66	11.96	
12	7.3 4.66	11.96	
13	7.1 4.74	11.84	
14	7.5 4.60	12.10	
15	7.7 4.53	12.23	
16	8.3 4.34	12.64	
17	9.20 4.12 9.1 9.3	13.32	

Plate badly streaked.

M7 Series 140

Sec 1

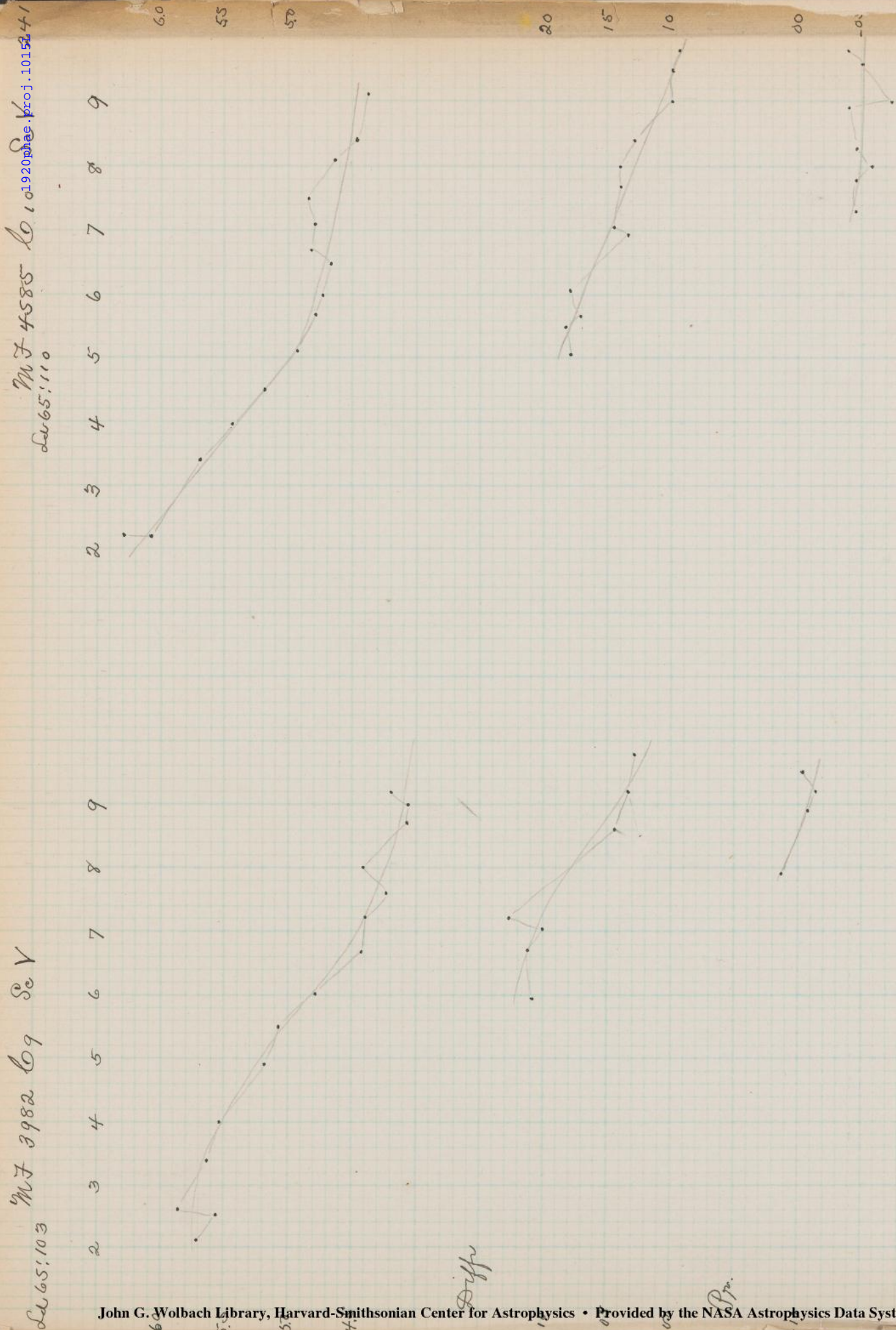
Oct 29, 1920

Alt Cor + 02

M7	35	21	E7	Mag	h	Cu	mag	PC	
1	B			4.7 47°	4.7	.	.	7.0	.
2	B			5.3 53°	5.3	2.10	7.40	77 ³⁵	-0.92 6.78
3	B			5.0 49°	4.9	2.14	7.09	72 7.5	.
4	Supr			5.5	5.6 ²⁰⁶	Supr	7.56	7.9	-0.93 6.97
5	2.0		5.52	7.62 5.9 59°	5.9	1.97	7.87	8.0	-0.94 7.06
6	2.2, 1		5.55 ⁴	7.75 ⁴ 6.1 62°	6.3	1.86	8.06	8.5	-0.98 7.52
7	B		.	5.8 58°	5.9	1.99	7.84	7.9	-0.93 6.97
8	2.4 2.3		5.55	7.95 6.7 68°	6.9	1.63	8.43	9.0	-1.00 8.40
9	2.1 2.0		5.52	7.62 6.5 65°	6.5	1.75	8.25	8.9	-0.99 7.91
10	2.8 2.7		5.57	8.37 7.1 72°	7.3	1.43	8.63	Supr	.
11	2.6 2.5		5.56	8.16 Supr	7.0	1.53	8.53	9.0	-1.00 8.00
12	2.4 2.3		5.55	7.95 6.9 68°	6.8	1.62	8.47	8.9	-0.99 7.91
13	2.6 2.5		5.56	8.16 7.3 74°	7.5	1.32	8.72	def	.
14	3.4 3.3		5.60	9.00 7.5 75°	7.5	1.29	8.79	8.9 ?	-0.99 7.91
15	3.5 3.4		5.61	9.11 7.5 75°	7.5	1.29	8.79		
16	3.6 3.5		5.61	9.21 7.9 79°	7.9	1.10	9.00		
17	3.6 3.5		5.61	9.21 7.8 76°	7.8	1.15	8.95		
18	4.2 4.1 4.15	4.1	5.59	9.74 8.5 85°	8.5	0.90	9.40		
19		3.9	5.60	9.50 8.3 84°	8.5	0.92	9.32		
20		4.4	5.56	9.96 8.5 86°	8.7	0.86	9.46		
21		5.0	5.44	10.44 Supr	9.0	0.76	9.76		
22		5.2	5.38	10.58 9.3 92°	9.1	0.74	9.94		
23		5.1	5.41	10.51 9.0 91°	9.0	0.76	9.76		
24		5.3	5.35	10.65 9.3 93°	9.3	0.71	10.01		
25		5.5	5.30	10.80 7	9.7	0.67	10.37		
26		6.1	5.05	11.18					
27		6.3	5.02	11.32					
28		6.7	4.88	11.58					

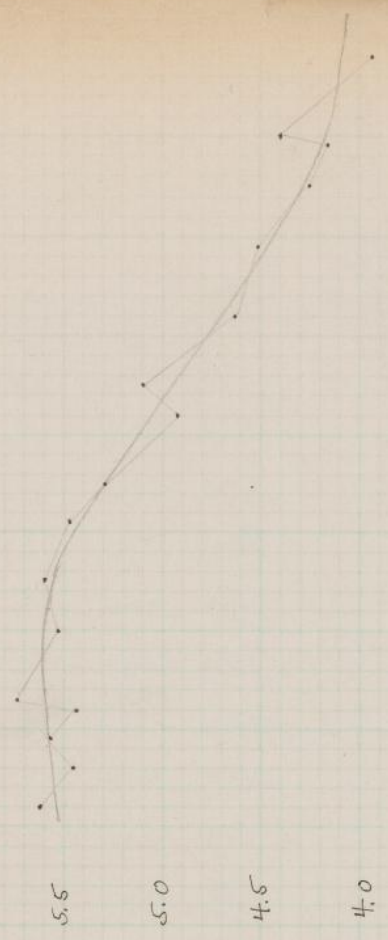
MF 4585
 Lw 65:110

MF 3982
 Lw 65:103

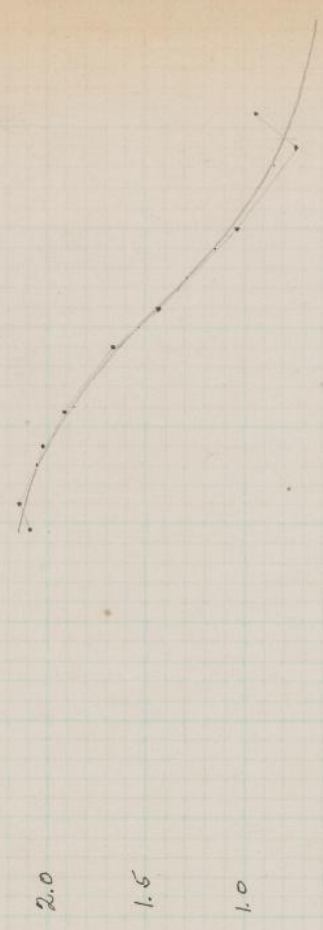


M Series 140

C9 M# 3518 Ld. 65:94
2 3 4 5 6 7 8 9



Diff.

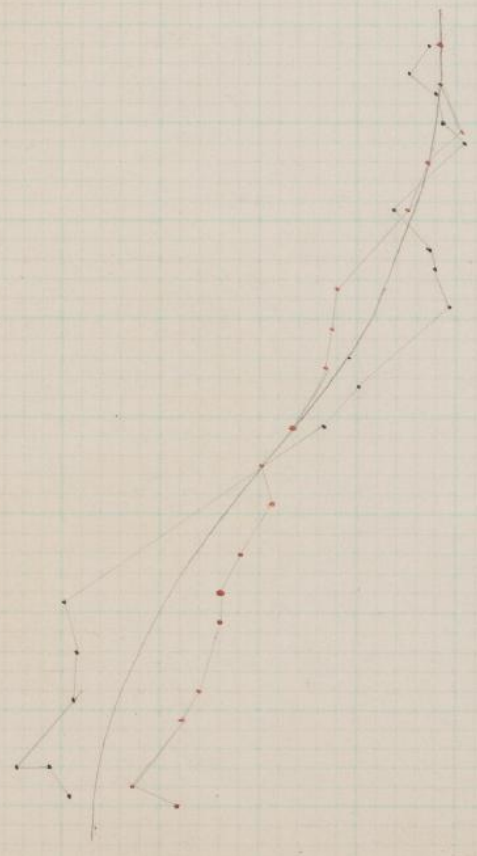


P.C.

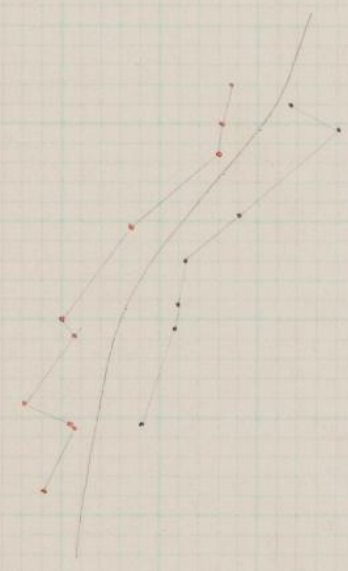
-0.5
-1.0

M Series 427

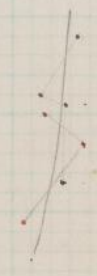
C9 M# 6348 } Ld. 65:111-117
C10 M# 6253 }
2 3 4 5 6 7 8 9



Diff.



P.C.



MF Series 140

Oct 29, 1920

Sel

MF 3521 (cont)

	22	Cu	
29	6.9	4.81	11.71
30	7.1	4.73	11.83
31	6.9	4.81	11.71
32	7.1	4.73	11.83
33	7.5	4.60	12.10
34	7.7	4.53	12.23
	8.60	4.25	
35	8.7	8.5	12.85
36	9.1	4.14	13.24
37	9.5	4.11	13.61
38	9.7	4.09	13.79
39	9.8	4.08	13.88

M7 Series 140

Sel

Oct 29, 1920

M7 3522		Nova Sag. 3		18 16-25.2		+0.06	
	Sec 1	Sec 2	Cu. mag.	h	Cu. mag.	PC	Cu. mag
a	13			13.9 3.95	4.0	7.1	
a'	2.1		5.53	7.63	5.3 5.30	5.3 2.10	7.40
b	2.3		5.55	7.85	5.5	+h 2.07	7.57
c	3.1		5.59	8.79	7.3	+h 1.38	8.68
d	2.9		5.58	8.58	7.1	+h 1.50	8.60
e	3.6		5.60	9.20	8.8 8.90	9.0 0.80	9.70
f	4.0	4.05 4.1	5.60	9.65	9.5	7 0.70	10.20
g	4.40	4.3	4.5	3.57	9.97		
h	5.10	5.0	5.2	5.42	10.52		
Select unmarked		5.7?	5.23	10.93			
k		4.9	5.48	10.38			
l		6.1	5.10	11.20			
m		6.9	4.80	11.70			
n		7.3	4.66	11.96			
o		8.0	4.44	12.44			
See { p'	h	8.40	8.3	8.5	4.32	12.72	
651037 { q'	g		8.5		4.28	12.78	
r'	h		9.1		4.15	13.25	

11:50

11:15

Sev

M7 Series 182

November 5, 1920

M7 3977 C7						PC	
1	B		5.2	5.15	5.1	7.3	
2	B		5.8	5.80	5.8	8.0	
3	B		5.5	5.60	5.7	7.7	
4	B		6.1	6.00	5.9	8.3	
5	B		6.3	6.20	6.1	8.5	
6	^{2.4} 2.3		6.5	6.60	6.7	8.9	
7	^{2.2} 2.1		6.3	6.30	6.3	8.5	
8	^{2.6} 2.5		6.7	6.75	6.8	9.0	
9	^{2.4} 2.3		6.7	6.70	6.7	8.9	
10	^{3.2} 3.1		7.3		supr.	supr. nearly	
11	^{3.2} 3.1		supr.		7.3	9.5	
12	^{2.9} 2.8		7.3	7.20	7.1	9.5	
13	^{3.2} 3.1		7.7	7.70	7.7		
14	^{3.8} 3.7		7.9	7.95	8.0		
15	^{4.0} 3.9	4.00	7.7	7.80	7.9		
16		3.9	8.0	7.90	7.8		
17		3.9	8.1	8.10	8.1		
18		4.8	8.7	8.70	8.7	30	7.0
19		^{4.60} 4.5	8.9	8.95	9.0	31	7.1
20		4.5	8.9	8.90	8.9	32	7.5
21		5.1	9.3	9.30	9.3	33	7.7
22		5.3	9.7	9.60	9.5	34	7.9
23		5.5	9.5	9.50	9.5	35	8.5
24		5.5	9.3	9.40	9.5	36	9.3
25		5.7				37	9.7
26		6.2				38	9.7
27		6.5				39	9.8
28		6.7				40	9.8 9.9
29		6.7					

M7 Series 182

Dev

Nov 5, 1920.

M7 3978 R T Scorpii 16 57 - 36,8

a	B	^{8.1}	^{8.2}	4.9 4.85	4.8	PC
B	B			6.0 5.95	5.9	7.9
C	B			6.3 6.30	6.3	8.1
a	B			6.5 6.50	6.5	8.5
a ¹	^{2.2} 2.1			6.8	7.2	9.0
a ²	^{3.1} 3.0			7.5 7.60	7.7	9.3
b ¹	^{3.5} 3.4			8.0 8.05	8.1	9.8?
b ²	^{3.6} 3.5			7.9 8.00	8.1	7
c	^{3.6} 3.5			8.0 8.00	8.0	
d	^{4.1} 4.0 4.10	4.1		8.3 8.30	8.3	
e		5.0		9.1 9.10	9.1	
f		5.3		9.5 9.60	9.7	
g		6.0				
h	W.S.	6.8				
k		6.1				
l		6.5				
m		6.9				
n		7.60				
o		7.5 7.7				
p		7.7				
q		7.9				
r		8.0				
s		8.3				
t		8.60				
u		8.5 8.7				
v		9.0				
w		9.2				
x		6.9				

uncertain

Scor. not in center of plate

M7 Series 182

8-1

Mar 5, 1920

M7 3979			35 Kd			pc
1	2.1 ³⁰	2.0	4.2	9	7.1 ¹⁰	7.1
2	4.2	4.1 ⁴²⁰	4.2	8	8.9 ⁸⁵	9.0
3			4.8 ⁸⁰	7	9.3 ³⁰	9.3
4			4.7	6	9.7 ¹⁰	9.7
5			5.3			
6			6.5			
7			6.3			
8			6.7			
9			7.3			
10			7.5			
11			7.7			
12			8.0			
13			8.5			
14			9.1 ¹⁰			
15			9.0 9.2			
			9.7			
			9.8			

Nova Ophi

						pc
1 B	4.5	4.5 ⁵⁰	4.5	13	7.7 ¹⁶⁰	1 6.5
2 B	5.2	5.2 ⁵⁰	5.3	14	7.7 ¹⁶⁰	2 7.2
3 2.0	6.1	6.2 ²⁰	6.3	15	7.8	3 8.1
4 2.3	6.5	6.5 ⁵⁰	6.5	16	8.1 ⁸⁹⁰	4 8.3
5 2.7 2.9	7.0	6.9 ⁵	6.9	17	8.8 9.0	5 8.8
6 3.3	7.7	7.7 ¹⁰	7.7	18	9.8	6 9.5 near to ob.
7 3.9	4.0	8.7 ^{8.70}	8.7	19	7	
8	4.3	8.9 ^{8.90}	8.9			
9	4.8	9.5 ^{9.30}	9.3			
10	5.2	9.5 ^{9.60}	9.7			
11	6.3					
12	6.8					

My Series 182

Phot 2th

Def

Nov 5, 1920

RR Oph

My 3980
a^{3.1} 5.1
3.0

8.7 8.70 8.7

pc
n.s

b 5.2

c 7.1

d 6.7

e 7.5

f 7.8

g 7.7

h 7.9

i 8.5

j 9.1 9.3

Plot 241

M7 Series 182
Mar 5, 1920

Se 1

M7 3982	Diff	pc	Diff
3 ^{2.1} 2.0	5.72	7.9	-0.86
4 ^{2.5} 2.4	5.56	8.9	-1.08
5 ^{2.6} 2.5	5.87	9.2	-1.14
6 ^{3.4} 3.3	5.64	9.5	-1.03
7 ^{4.0} 3.9	4.0553		
8	4.9519		
12	5.5507		
14	6.0479		
15	6.7443		
16	7.37.1		
17	7.6423		
18	8.0441		
20	8.7406		
21	9.0406		
22	9.2420		
23	7.		
24	ns.		
25	ns.		

1.45

10 -

ScV

M7 Series 240

Nov 10, 1920

M7 4579 E 7			2			Pe		
1	^{Sc1} B		4.9	4.95	5.0		7.3	
2	B		5.5	5.40	5.3		7.9	
3	B		6.3	5.20	5.1		7.7	7.8
4	^{2.1} 2.0		5.5	5.40	5.3		8.0	
5	^{2.2} 2.1		+		6.0		8.1	
6	^{2.4} 2.3		6.2	6.15	6.1		8.5	
7	^{2.2} 2.1		6.0	5.95	5.9		8.1	
8	^{3.0} 2.9		6.9	6.95	7.0		8.9	
9	^{2.9} 2.8		6.7	6.80	6.9		8.9	
10	^{3.4} 3.3		7.3		—		Close to br. object.	
11	^{3.6} 3.5		+		7.1		8.9	
ws 12	^{3.0} 3.9		7.3	7.30	7.3		9.1	
13	^{3.2} 3.1		7.5	7.50	7.5		9.3	
14	^{3.9} 3.8	^{3.95} 4.0 3.9	7.7	7.75	7.8		9.0 9.2?	
15		4.1	7.8	7.80	7.8		9.5?	
16		4.0	7.7	7.75	7.8			
17		4.1	7.8	7.85	7.9			
18		^{4.65} 4.8 4.5	8.0	8.10	8.2			
19		4.7	8.1	8.20	8.3			
20		4.9	8.5	8.50	8.5			
21		5.3	8.7	8.80	8.9			
22		5.1	9.0	8.95	8.9			
23		5.8	9.5	9.50	9.5			
24		6.0	9.5	9.50	9.5			
25		6.1	7		9.7			
26		6.5						
27		6.5						
28		6.7						

M7 Series 240

Nov 10, 1920

Dev

M7 4579

Se 2

29 6.7

30 7.1

31 7.3

32 7.5

33 7.7

34 7.9

35 8.3 8.1

36 9.1

37 9.3

38 9.5

39 9.7

40 9.8

M7 Series 182

Dev

Nov 10, 1920

M7 4581			V Area 17 48 - 48			pc		
a	^{3.0} 2.9	^{8.2}	7.0	^{9.50}	h	7.5	9.3	
b	^{3.4} 3.3		7.9		sup		9.7?	
c		5.5	9.8		7			
d		5.7	9.8					
e		5.5	9.7	^{9.75}	9.8			
f		6.3						
g		7.0						
h		7.3						
k		7.5						
l		^{8.20} 8.1 8.3						
m		8.0						
n		^{8.40} 8.5 8.3						
o		9.0						
p		9.3						
q		^{9.60} 9.7 9.5						
r		9.2						
s		7						

Seq. not in center of plate.

Sev

M7 Series 182
Nov 10, 1920

M7 4582		RV Sag - 158 K		pc
RV Sag.				100 max to star
a	2.5 ^{2.1} 2.4	6.5	+h	8.1
b	2.1 2.0	5.9 5.95	6.0	8.9
c	3.0 2.9	6.7	+h	9.3 ?
d	3.3 3.2	7.1	+h	
e	4.0 3.9 4.00	8.0	+h	
f	4.0 4.75 4.8 4.7	8.8 8.75	8.7 q	
g	4.5	9.0 8.95	8.9	
h	5.3	9.5	+h	
k	5.3	9.7 9.60	9.5	
l	5.8			
m	6.0			
n	7.1			
o	7.55 7.6 7.5			
p	8.1			
q	9.00 8.9 9.1			
r				

Seq note in center of plate

Dev

M7 Series 240

Nov 10, 1920

M7 4582 (cont)

158 K

132 ^{5.1} 3.1

802

7.12⁰

h

pc

2 ^{4.0} 3.9

4.00

4.0

8.3 83⁰

8.3

3

5.1

9.0 90⁵

9.1

4

5.5

9.7

7

5

6.0

6

6.1

7

6.7

8

7.0

9

7.7

10

8.0

11

8.2

12

8.9

13

9.60

9.5 9.7

Seq not in center of plate.

Scv

M7 Series 240

Nov 10, 1920

M7 4583			S Con.		
	Sc 1	Sc 2	g _r	h	pc
a	13		4 _r	5.7	8.0
B	2.3		+ _r	5.9	8.3
C	2.6		t _r	6.3	8.7
a	4.3	4.30	8.9	8.90	8.9
b	3.8	3.90	+ _r	7.7	
c		4.10	+ _r	7.7	
d		5.0	8.9	8.80	8.7
d'		5.3	+ _r	9.1	
d ²		5.3	+ _r	9.5	
e		6.0			
e'		6.7			
f		7.2			
f'		7.5			
f ²		8.0			
g		9.1			

Seq. not in center of plate

Sheet 241

M7 Series 240
Nov 10, 1920

Dev

M7 4585 1010			Diff	pc
1	^{50'} B		75.1 505 5.0	1.79 7.3 - 0.46
2	B		5.7 5.70 5.7	1.71 8.0 - 0.59
3	B		5.5 5.50 5.5	1.84 7.8 - 0.46
4	B		6.1 6.05 6.0	1.79 ^{8.3} 7.9 - 0.06
6	²² 2.1	6.30	7.0 7.05 7.1	1.45 8.9 - 0.40
ws 7	²² 2.7	6.09	6.9 6.95 7.0	1.34 9.0 - 0.75
ws 8	³⁴ 3.3	5.70	7.7 7.70 7.7	1.40 ^{9.6} 9.5 9.7 - 0.50
9	³⁹ 3.8 3.95	4.0 5.45	8.0 8.00 8.0	1.40 9.8 - 0.40
10		4.5 5.19	8.5 8.40 8.3	1.29
11		5.1 4.94	9.1 9.05 9.0	0.99
12		5.7 4.79	9.5 9.50 9.5	0.99
13		6.0 4.73	9.8 9.80 9.8	0.93
15		6.5 4.67		
16		6.7 4.82		
17		7.1 4.80		
18		7.5 4.85		
19		8.1 4.64		
20		⁸⁴⁰ 4.47		
21		8.5 8.3		
21		9.1 4.38		
22		7		
24		7		

1. 10

Sheet 233

10:20
Sev

M7 Series 427

Nov 16, 1920

M7 63 48 69			h diff.			PC 8.8		diff.		
3	13	5.1	5.95	5.9	0.09	u.s	8.9	Reg. ser.	-1.26	
4	13	2.1	6.9	6.90	0.92		9.1		-1.28	
5	2.0	2.4	5.96	7.1	7.15	7.2	0.91	9.2		-1.14
6	2.3	3.1	6.07	7.5	7.60	7.7	0.87	9.3 ft.		-1.33
7	3.0	3.6	5.94	9.0	8.95	8.9	0.09			
8	3.5	4.1	5.93	9.3	9.20	9.1	0.33			
9	4.0	4.10	4.1	5.99						
12	5.90	6.0	4.67							
14		6.3	4.49							
15		7.1	4.03							
16		7.5	4.10							
17		7.7	4.13							
18		8.1	4.31							
20		8.8	3.96							
21		9.0	4.06							
22		9.3	4.10							
23		9.5	4.24							
24		9.8	4.13							
25		7								
16a	u.u	8.5								
14a		7.3								
6a	2.4	2.3	6.24	8.1	8.05	8.0	0.59			

Set

M7 Series 427

Copied 34, 142

Nov 16, 1900

Alt Corr +.09

M7 6249		43 K	Magn	g	h	Cu	PC
1	13	Cu		4.9 4.80	47	1.41	6.21 6.7
2	13			5.5 5.60	5.7	1.35	6.95 7.5 -110 6.40
3	3.2 3.1 3.0 3.20	5.69	8.89	7.1	4.7	1.17	8.27 Sup
4	3.3 3.4	5.65	9.05	8.1 8.20	8.3	0.80	9.00
5	5.0 4.9 5.00	5.0 5.16	10.16	8.7 8.75	8.8	0.55	9.30
6		5.5 4.93	10.43	9.1 9.05	9.0	0.46	9.51
7		6.0 5.8 5.83	10.73	Sup			
8		6.7 4.51	11.21				
9		7.5 4.33	11.83				
10		8.8 4.11	12.91				
11		9.8 4.08	13.88				
12		7					

Dev

M7 Series 427

Copied 45:124

Nov 16, 1920

Alt. Con +07

M7 6250		Nova Sag 3		18 15 - 28		+ .07	
	Sc 1	Sc 2	cu. mag.		cu. mag.	p.c.	cu. mag.
a	13			5.5	5.60	5.7	1.46 7.06
a'	2.1		5.83	7.93	6.7	6.70	6.7 1.25 7.95
b	2.5		5.80	8.30	6.9	6.95	7.0 1.21 8.16
c	3.8	3.85	3.9	5.54	9.39	7.8	7.85 7.9 0.95 8.80
d	3.7		4.1	5.48	9.58	8.0	8.00 8.0 0.88 8.88
e			4.9	5.21	10.11	8.7	8.80 8.9 0.55 9.35
f			5.3	5.06	10.36	9.1	9.05 9.0 0.46 9.51
g			3.9	4.82	10.72	7	
h			6.3	4.65	10.95		
k			6.1	4.73	10.83		
l			7.1	4.40	11.50		
m			7.5	4.33	11.83		
n			8.0	4.24	12.24		
o			8.2	4.19	12.39		
p			8.7	4.13	12.83		
q			9.3	4.08	13.38		
r			1.7	4.07	13.77		

see { p' f
B 51039 { q' q
 { r' r

Seq not in center of plate - images fairly good

Dev

M7 Series 427
Nov 16, 1920

Copied 34.50

Alt Cor +07

M7 6250 cont		Cu		L		PC	
158 K	1 ³⁶ 3.5 3.70	3.8	5.58 9.28	7.3 7.40	7.5 10.9	8.49	9.7 — 12.9 8.41
	2	4.9	5.21 10.11	8.5-8.50	8.5 0.67	9.17	
	3	5.3	5.05 10.35	8.9 8.95	9.0 0.50	9.45	
	4	6.3	4.65 10.95				
	5 ^{6.60}	6.5 6.7	4.54 11.14				
	6	Sub					
	7 ^{7.40}	7.5 7.3	4.34 11.74				
	8	7.5	4.33 11.83				
	9	7.9	4.25 12.15				
	10 ^{8.40}	8.3 8.5	4.16 12.56				
	11	8.7	4.12 12.82				
	12	8.9	4.11 13.01				
	13 ^{9.40}	9.3 9.5	4.08 13.48				
	14	9.8	4.07 13.87				

Seq not in center of plate. images far

M7 Series 427 Copied 38'88

Set

Nov 16, 1920

Alt Cor + 07

M7 6250 cont

Nova Sag 5

Set	Sev	Sev2	Cur.	g	h	PC
a B				5.3 5.30	5.3 1.38	6.68 7.7 - 1.13 6.57
b ²² 2.1			5.82	8.02 +h	6.3 1.29	7.59 8.7 - 1.23 7.47
c ²⁴ 2.3 ²⁶ 2.5			5.80	8.20 +h	6.3 1.29	7.59 8.8 - 1.25 7.55
d ²⁸ 2.7 ²⁵ 2.70			5.77	8.47 +h	6.5 1.27	7.77 8.9 - 1.26 7.64
e ³⁰ 3.5			5.60	9.20 +h	7.5 ^{7.60} 7.7 ^{1.03}	8.63 Supr
f ³⁸ 3.7 ^{38.5}		3.9	5.53	9.38 +h	8.1 0.84	8.94
g Supr ong				9.0	Supr ^{0.47}	9.47
h		5.5	4.98	10.48	9.7 9.60	9.5 0.31 9.81
k		6.1	4.73	10.83		
l		6.5	4.59	11.09		
m		7.1	4.40	11.50		
n		7.3	4.36	11.66		
o		7.7	4.29	11.99		
p		8.0	4.22	12.22		
q						
r		8.5	4.14	12.64		
s		9.1	4.10	13.20		

Images from - Hazy on one side - seq not in center of plate.

Scv

M7 Series 427

Nov 16, 1920

Copied 27:79

Alt Cor +.09

M7 6252 D10									
1	Scv 13	802		95.1	5.00	h	Cur	pc	
2	13			5.1	5.05	5.0	140	640	7.9 -1.16 6.74
3	²² 2.1	5.82	8.02	t/p		5.2	139	6.59	8.7 8.5 -1.22 7.38
4	t/p			5.5	5.50	5.5	136	6.86	8.3 -1.20 7.10
5	²⁴ 2.3	5.80	8.20	t/p		5.7	134	7.04	8.8 -1.24 7.56
6	²⁶ 2.5	5.78	8.38	t/p		5.9	132	7.22	8.8 -1.24 7.56
7	²⁷ 2.8	5.74	8.64	6.1	6.15	6.2	131	7.46	9.1 -1.26 7.84
8	³³ 3.2	5.65	8.95	6.7	6.70	6.7	124	7.94	Closer to bro objects
9	³⁶ 3.5	5.60	9.20	7.3	7.1	7.3	115	8.35	
10	²⁹ 2.8	5.74	8.64	7.1	7.10	7.1	118	8.28	
11	³⁵ 3.4	5.62	9.12	8.0	8.05	8.1	1086	8.91	
12	³¹ 3.0	5.71	8.81	7.0	7.05	7.1	119	8.24	
13	³⁴ 3.3	5.64	9.04	8.3	8.20	8.3	1080	9.00	
14	³⁴ 3.3	5.64	9.04	8.1	8.10	8.1	1084	8.94	
15		5.2	5.10	10.30	7				
16		4.3	5.42	9.72	9.3		Sup		
17		5.2	5.10	10.30					
18		4.7	5.28	9.98					
19		5.3	5.05	10.35					
20		5.9	4.82	10.72					
21		5.5	4.98	10.48					
22		6.0	4.77	10.77					
23		6.0	4.77	10.77					
24		6.3	4.63	10.93					
25		⁷⁰⁰ 6.9	4.42	11.42					
26		7.3	4.36	11.66					
27		7.0	4.42	11.42					
28		7.1	4.40	11.50					
29		7.3	4.37	11.67					

Images slightly elongated.

M7 Series 427

Nov 16, 1920

Ser

M7 6253				C 10-				g h diff.				pc 7.90 Diff.			
1	Sc 1	Sc 2	Diff.					5.2	5.25	5.3	1.59	8.0	7.8	-1.06	
2	13							5.9	5.95	6.0	1.46	8.0	sup		
3	1.9		5.41					5.9	5.90	5.9	1.44	8.7		-1.86	
4	2.2							6.1	6.15	6.2	1.69	9.0		-1.16	
6	2.1		5.64					7.0	7.00	7.0	1.50	7			
7	3.2		5.80					6.9	6.85	6.8	1.44				
8	2.9		5.39					7.9	7.95	8.0	1.15				
8	3.9	3.90	3.9	5.20				8.7	8.70	8.7	0.70				
9			4.2	5.20				9.0	9.00	9.0	0.69				
10			4.6	5.09				9.5	9.40	9.3	0.64				
11			5.1	4.94											
12			5.5	4.99											
13			5.9	4.83											
15			6.5	4.67											
16			6.9	4.62											
17			7.3	4.60											
18			8.1	4.25											
19		8.60	8.5	4.14	8.7										
20			8.9	3.97											
21			9.4	4.08											
22			9.8	4.08											
24			7												
25			7												

1.30

118

12:00

Dev

March 1, 1921
~~February~~

Shel-445

mc	2680	Pole	Diff	pc	Diff	Don. 35
5	⁸⁰¹ B	B	.	³ X.8	2.69	
6	B	B	.	4.3	2.81	
8	²⁴⁰ B	B	.	5.7	2.53	
9	²⁵ 2.4 ²³ 2.2	²⁰ 18	6.43	⁶⁶⁰ 6.5	6.7	2.23
10	²⁶ 2.5		6.42	7.0		2.02
11	³² 3.1		6.35	8.0		1.55
12	³⁵ 3.4		6.36	8.5		1.36
13	⁴¹ 4.0 ⁴¹⁰ 4.1		6.20	8.9		1.40
14	4.5		6.15	9.3		1.35
15	5.1		5.98	F		.
16	⁵⁶⁰ 5.5 5.7		5.80			
17	5.9		5.73			
18	6.5		5.56			
19	6.7		5.72			
20	7.1		5.63			
21	7.5		5.46			
22	7.8		5.39			
23	8.0		5.34			
24	⁸³⁰ 8.1 8.2		5.34			
25	⁸⁹⁵ 9.0 8.9		4.92			
26	9.3		5.03			
27	9.8		4.89			

B.C.'s from - happy

$$\text{alt} - 12 = 32$$

March 1, 1921

Sc 1

MC 2681 A3				PC				Cu				
Cur. MC 2681	Magn	Sc 1	Sc 2	Cur. MC 2681	Magn	Sc 1	Sc 2	Cur. MC 2681	Magn	Sc 1	Sc 2	
1	B	2.5	6.42	1	B	2.5	6.42	1	B	2.5	6.42	
2	B	2.5	6.42	2	B	2.5	6.42	2	B	2.5	6.42	
3	B	2.5	6.42	3	B	2.5	6.42	3	B	2.5	6.42	
4	B	2.5	6.42	4	B	2.5	6.42	4	B	2.5	6.42	
5	B	2.5	6.42	5	B	2.5	6.42	5	B	2.5	6.42	
-81 7.15	9.75	6	2.5	6.42	-04	9.02	6.9	2.08	8.98	2.04	04	8.94
-89 7.15	9.75	7	2.5	6.42	-11	9.02	6.8	2.11	8.91	2.06	05	8.86
-118 7.24	10.54	8	3.2	6.33	-31	9.63	7.5	1.82	9.32	1.86	04	9.36
-112 7.23	10.63	9	3.3	6.32	-28	9.72	7.7	1.74	9.44	1.81	07	9.51
-103 7.24	10.54	10	3.2	6.33	-19	9.63	7.7	1.74	9.44	1.81	07	9.51
-106 7.23	10.63	11	3.3	6.32	-22	9.72	7.8	1.70	9.50	1.77	07	9.57
-77 7.21	10.91	12	3.6	6.28	-15	9.98	8.3	1.53	9.83	1.64	11	9.94
-106 7.20	11.00	13	3.7	6.25	-22	10.05	8.3	1.53	9.83	1.64	11	9.94
-88 7.15	11.15	14	3.9	4.0 6.22	-12	10.22	8.7	1.40	10.10	1.57	17	10.27
-87 7.03	11.43	15		4.4 6.13	-19	10.53	9.0	1.34	10.34	1.56	22	10.56
-77 6.93	11.63	16		4.7 6.08	-19	10.78	9.3	1.29	10.59	1.56	27	10.86
-61 6.84	11.79	17		4.9 6.02	-20	10.97	9.5	1.27	10.77	1.58	31	11.08
6.70	12.00	18		5.3 5.94	11.24	7						
6.62	12.12	19		5.5 5.90	11.40							
6.62	12.12	20		5.5 5.90	11.40							
6.48	12.38	21		5.9 5.81	11.71							
6.40	12.50	22		6.1 5.75	11.85							
6.20	12.70	23		6.5 5.68	12.18							
6.10	12.80	24		6.7 5.63	12.33							
6.00	12.90	25		6.9 5.59	12.49							
5.85	13.05	26		7.2 5.51	12.71							
5.52	13.32	27		7.8 5.38	13.18							
5.42	13.42	28		8.0 5.32	13.32							

March 1, 1921

Dev

MC 2686		MC 2681 cont (A ²)		MC 2680		Ser 35	
Cu		Sc 2	Cu				
5.26	13.56 29	8.3	5.25		13.55		
5.18	13.68 30	8.5	5.21		13.71		
5.02	13.92 31	8.9	5.11		14.01		
4.94	14.14 32	9.2	5.03		14.23		
4.92	14.22 33	9.3	5.00		14.30		
4.90	14.60 34	9.7	4.92		14.62		
4.91	14.81 35	9.9	4.87		14.77 ²		
,	, 36	n.s.	,		,		

March 1, 1921

Alt +17

Sel

		Mc 2682	by	pc	Cu Mc 2680	Magu 2680	Cu 2686	Magu 2686	
	5	Sc 1 13		5.9	2.45	8.35	2.32	8.22	
-21	6	^{2.1} 2.0	6.46 8.56 6.91 9.01	5.9	2.45	8.35	2.32	8.22	-79
-22	7	^{2.4} 2.3 ^{2.50}	6.44 8.84 7.07 9.47	6.3	2.32	8.62	2.21	8.51	-94 ⁶
-10	8	^{2.4} 2.3 ^{2.6} 2.5	6.42 8.92 7.07 9.47	6.5	2.24	8.74	2.14	8.64	-87 ³
-18	9	^{2.9} 2.8	6.38 9.28 7.23 10.13	7.1	2.00	9.10	1.99	9.09	-104
-40	10	^{3.6} 3.5	6.30 9.90 7.22 10.82	7.8	1.70	9.50	1.77	9.57	-125
-32	11	^{3.6} 3.5	6.30 9.90 7.22 10.82	7.9	1.68	9.58	1.74	9.64	-118
-27	12	^{3.6} 3.5	6.30 9.90 7.22 10.82	8.0	1.63	9.63	1.70	9.70	-118
-23	13	^{3.8} 3.7	6.25 10.05 7.20 11.00	8.3	1.52	9.82	1.64	9.94	-106
-12	14	^{4.3} 4.2 ^{4.30}	4.36 10.46 7.06 11.36	9.0 ^{9.40}	1.34	10.34	1.56	10.56	-86
-16	15		4.8 6.04 10.84 6.90 11.70	9.3 ^{9.7}	1.28	10.68	1.58	10.98	-72
	16		5.06 00 11.00 6.93 11.83	9.7	1.24	<u>10.94</u>	1.59	<u>11.29</u>	-64
	17		5.4 5.9 11.31 6.65 12.05						
	18		5.9 5.80 11.70 6.48 12.38						
	19		6.1 5.75 11.85 6.39 12.49						
	20		6.5 5.67 12.17 6.20 12.70						
	21		6.7 5.63 12.33 6.10 12.80						
-	22		7.0 5.55 12.55 5.95 12.95						
	23		7.3 5.50 12.80 5.80 13.10						
	24		7.9 5.35 13.25 5.67 13.33						
	25		8.1 5.30 13.40 5.36 13.46						
	26		8.3 5.25 13.55 5.26 13.56						
	27		8.5 5.21 13.71 5.17 13.67						
	28		9.0 5.09 14.09 5.00 14.00						
	29		^{4.90} 9.8 14.70 4.87 14.69						

March 1, 1921

Sheet 445

Sev

me	2686	802	Diff	pc	(Ser 35)	Diff
5	B		.	3	4.9	2.59
6	B		.	4.5		2.61
8	B		.	6.0 ⁵⁹⁰	5.8	2.33
9	²⁰ 1.9	²²⁵	6.83	6.9 ⁶⁸⁰	6.7	2.03
10	²³ 2.2	²² 2.1	6.77	7.0		2.02
11	²⁴ 2.3		7.15	7.8		1.75
12	²⁶ 2.5		7.26	8.3		1.56
13	³⁰ 2.9		7.30	8.7		1.60
14	³⁴ 3.3	³⁶ 3.5	7.15	9.0		1.65
15	³⁹ 3.8		7.18	9.5		1.58
16	⁴² 4.1	⁴²⁵	4.3 7.15			
17			4.60 7.03			
18			4.5 4.7			
19			5.5 6.56			
20			6.20 6.22			
21			6.1 6.3			
22			6.5 6.23			
23			6.8 6.16			
24			7.1 6.09			
25			7.9 4.97			
26			8.0 7.8			
27			8.40 5.24			
			8.3 8.5			
			9.3 5.03			
			9.8 4.89			

I images very poor. bc images large & dense
 ft in - hazf - bc's very good

1:50

Sheet 448

10:10
M
Set

March 2, 1921

	MC 737	Mean	Diff	PC	Sup	Mean	Diff	PC
5	5.1			2.2				
6	6.1			5.1	4.9	5.00	2.11	
8	8.1	2.3	2.30	5.93	6.2	6.10	2.13	
9	9.1	2.7	2.80	6.03	6.8	6.75	2.08	
10	10.1	2.7	2.92	6.10	7.1	7.05	1.97	
11	11.1	3.1	3.4	3.30	6.25	7.5	7.7	7.60
12	12.1	3.4	3.6	3.55	6.31	7.9	8.0	7.95
13	13.1	3.7	3.9	4.00	3.98	6.38	8.3	8.5
14	14.1		4.2	4.3	4.25	6.40	8.8	8.7
15	15.1		4.7	4.7	4.70	6.38	9.3	9.2
16	16.1		5.1	5.2	5.15	6.25	9.7	
17	17.1		5.3	5.5	5.40	6.23	7	
18	18.1		5.9	6.0	5.95	6.11		
19	19.1		6.3	6.3	6.30	6.12		
20	20.1		6.5	6.5	6.50	6.23		
21	21.1		6.8	6.7	6.75	6.21		
22	22.1		7.0	7.1	7.05	6.14		
23	23.1		7.3	7.3	7.30	6.04		
24	24.1		7.5	7.5	7.50	6.14		
25	25.1		7.9	8.0	7.95	5.92		
26	26.1		8.3	8.3	8.45	5.88		
27	27.1		8.9	9.0	8.95	5.74		
28	28.1		9.5	9.40	9.45	5.66		
29	29.1		7	9.8	9.80	5.86		
30	30.1							

Reject? Ser. note p 125
 Reduce - both series - means with Set W
 H.S.L.

March 2, 1921

alt +17

	mc 7374	Sc. 1	Sc. 2	Cu.	magu	per. 414	Cu.	
1	B			.	.	4.5	.	
2	B			.	.	5.1	2.10	7.20
3	B			.	.	5.2	2.10	7.30
4	B			.	.	Sup	.	.
5	B			.	.	6.4	2.06	8.46
7	B			.	.	6.8	2.03	8.83
8	^{2.4} 2.2 ^{2.50} 2.4			5.99	+43	8.49	6.9	2.02 8.92
9	^{3.1} 2.9			6.18	-08	9.28	7.2	2.00 9.20
11	^{3.7} 3.5			6.34	-22	10.04	7.9	1.92 9.82
13	^{4.0} 3.8 ^{3.90}	3.8	6.38	-18	10.28	8.2	1.90	10.10
14		4.3	6.40	-16	10.70	8.7	1.84	10.54
16		4.8	6.34	-19	11.14	^{9.15} 9.0	^{1.80} 9.3	10.98
17		5.3	6.28	-04	11.58	9.8 ?	1.74	<u>11.54?</u>
18		5.7	6.25		11.95			
19		6.0	6.21		12.21			
20		6.5	6.15		12.65			
22		6.8	6.14		12.94			
23		7.1	6.10		13.20			
24		7.5	6.04		13.54			
26		8.1	5.95		14.05			
27		8.3	5.93		14.23			
28		8.9	5.84		14.74			
29		^{9.40} 9.3	5.77		15.17			
276		8.7	5.86		14.56			

Sheet 448

March 2, 1921

Se M

Me 7377	Pole	Se 414
5 ^{2.1} B		Sup
6 B		4.9
8 ^{2.3} 2.2		6.0
9 ^{2.9} 2.8		6.7
10 ^{3.1} 3.0 ^{3.5} 2.9		7.0
11 ^{3.4} 3.3		7.7
12 ^{3.6} 3.5		8.0
13 ^{4.0} 3.9 4.00 4.0		8.5
14	4.3	8.7
15	4.7	9.2
16	5.2	Sup
17	5.5	7
18	6.0	
19	6.3	
20	6.5	
21	6.7	
22	7.1	
23	7.3	
24	7.5	
25	8.0	
26	8.5	
27	9.0	
28	^{9.40} 9.5 9.3	
29	9.8 ?	

Copied p 123

Series 414. 7372, 7374, 7377
 measured with Se M. by mistake " 35"
 See page 125 for meas. with "U"

10:20

Dev

March 4, 1922

Sheet 446.

MC 7260	Pole	PC	Scr 403	PC
8 ⁰¹	8 ⁰² Diff	9	Diff	
5 B	.	4.0	2.49	
6 B	.	5.1	2.01	
7 -	-	6	.	
8 B	2.6	6.1	2.13	
9 ²⁵ 2.4	6.33 3.2	6.33 6.8	2.03	
10 ²⁶ 2.5	6.42 3.4	6.42 7.0	2.02	
11 ³¹ 3.0	6.45 3.8	6.45 7.8	1.78	
12 ³⁵ 3.4	4.70	6.36 8.1	1.76	
13 ³⁸ 3.7 ²⁸⁵	3.9	6.45 8.7	1.60	
14	4.2	6.45 9.0	1.65	
15	4.5	6.58 9.5	1.58	
16	⁴⁹⁵ 4.9 5.0	6.40 9.8	1.60	
17	⁵⁴⁰ 5.5 5.3	6.23		
18	6.0	6.0		
19	6.3	5.96		
20	6.7	6.12		
21	7.0	6.03		
22	7.2	5.96		
23	7.5	5.99		
24	7.8	5.84		
25	8.0	5.84		
26	8.5	5.87		
27	8.9	5.83		
28	9.3	5.79		
29	9.8	5.81		
30	F	5.86		

March 4, 1921

alt. + 0.17

Cur. MC 7266	Mag. MC 7266	MC 7266	Cur. MC 7260	Mag. MC 7260	Ser 403	Cur. MC 7260	MC 7260	Cur. MC 7266	Mag. MC 7266	MC 7260 - 7266				
		1 B			4.2 ⁵⁰⁰	2.29	6.49							
		2 B			5.1	4.9	2.21	7.21	1.46	6.46 75				
		3 B			5.0		2.21	7.21	1.46	6.46 75				
		4 B			5.5		2.15	7.65	1.42	6.92 73				
		5 ^{2.1} 2.0			6.1		2.08	8.18	1.37	7.47 71				
		7 ^{2.5} 2.4			6.40 - 38	8.90	6.5	2.02	8.52	1.31	7.81 71			
5.59 - 13	8.19	8 ^{2.6} 2.5			6.40 - 24	9.00	6.8	1.96	8.76	1.26	8.06 70			
5.64	8.64	9 ^{3.0} 2.9			6.44 - 09	9.44	8.3	8.4	1.71	7.5	18.59	9.35	1.18	8.68 67
5.64	9.44	10 ^{3.4} 3.5			6.45 - 03	10.05	8.9	Supr	8.3	1.72	10.02	1.10	9.30 72	
5.76	9.56	13 ^{3.8} 3.7			6.49 + 07	10.29	9.7	Supr	8.7	1.66	10.36	1.05	9.75 61	
5.80	9.98	14 ^{4.1} 4.0	4.15		6.50 + 15	10.65	9.7	1.59	9.2	1.60	10.80	1.01	10.21 59	
5.82	10.52	16			6.45 + 04	11.15	W. Stars meas.	9.5	9.7	1.11	1.00	10.60 41		
5.78	10.98	17			5.2	6.33	11.53						7.35	
5.72	11.22	18			5.5	6.24	11.74						+ 67	
5.63	11.53	19			5.9	6.14	12.04							
5.50	11.80	20			6.3	6.07	12.37							
5.37	12.17	22			6.80	6.7	6.9	5.99	12.79					
5.30	12.40	23			7.1	5.95	13.05							
5.18	12.98	24			7.8	5.87	13.67							
5.12	13.42	26			8.20	8.3	8.1	5.82	14.02					
5.10	13.80	27			8.5	8.2	5.80	14.50						
5.08	14.38	28			9.30	9.3	9.3	5.80	15.10					
5.06	14.86	29			9.8	5.84	15.64							
		30			7									

MC 7266 gives magnitudes fainter than MC 7260 by 0.7 mag.
The scale is nearly the same.

Shed 446

March 4, 1921

dev

	Me 7266	Pole	Ser 403	Riff
	Sc1	Sc2	PC	
5	13	.	5.1	1.39
6	13	.	5.7	1.41
8	²⁶ 2.5	5.63	6.9	1.33
9	³² 3.1	5.63	7.7	1.13
10	³⁴ 3.3	5.62	8.0	1.02
11	³⁸ 3.7	5.75	8.5	1.05
12	⁴⁰ 3.9 4.00	4.0 5.86	8.8	1.06
13		4.4 5.90	⁹²⁰ 9.1 9.3	1.10
14		⁴⁸⁰ 4.7 4.9	9.7	0.95
15		5.3 5.78		
16		5.7 5.70		
17		6.0 5.63		
18		6.8 5.26		
19		7.1 5.32		
20		7.5 5.23		
21		7.7 5.26		
22		8.0 5.19		
23		8.3 5.04		
24		8.5 5.14		
25		8.8 5.07		
26		9.2 5.13		
27		⁹⁶⁰ 9.5 9.7		
28		7		
29				

Plate stained - seems to hide faint stars -

11,46

10 - 10

March 8, 1921

Sheet 446

Sev

MC 6173	Sev	Mean	Diff	PC	Mean	Diff				
5 B	5.1	5.1	4.9	5.00	1.49					
6 B	5.7	5.5	5.60	1.51						
8 ^{2.6} 2.5	2.4	2.45	5.78	6.7	6.5	6.60	1.63			
9 ^{3.3} 3.2	3.2	3.25	5.58	7.5	7.1	7.30	1.53			
10 ^{3.6} 3.5	3.4	3.50	5.52	7.8	7.5	7.65	1.37			
11 ^{4.0} 3.9 4.00	4.0	3.8	3.90	5.65	8.3	7.9	8.05	1.50		
12	4.35	4.4	4.3	4.00	4.18	5.68	8.7	8.50	8.60	1.26
13	4.90	4.9	4.7	4.4	4.60	5.70	9.1	8.9	9.00	1.30
14	5.2	4.7	4.95	5.70	9.3	9.2	9.25	1.40		
15	5.60	5.5	5.7	5.3	5.45	5.60	9.8	9.7	9.75	1.33
16	6.0	5.60	5.80	5.60						
17	6.2	5.9	6.05	5.58						
18	6.7	6.5	6.60	5.46						
19	7.0	6.9	6.95	5.47						
20	7.3	7.2	7.25	5.48						
21	7.5	7.5	7.50	5.46						
22	7.8	7.7	7.75	5.44						
23	8.0	7.9	7.95	5.39						
24	8.2	8.1	8.15	5.49						
25	8.40	8.5	8.3	8.35	5.52					
26	8.8	8.8	8.80	5.53						
27	9.2	9.3	9.25	5.44						
28	9.7	9.8	9.75	5.36						
29	7									

March 8, 1921

alt. ~~11~~

Scv

mc	6174	622	cu.	Magm	pc	Scv	313
3	⁵⁰¹ 13		.	.	5.2	151	6.71
4	13		.	.	5.9	155	7.45
5	13		.	.	6.2	156	7.76
6	²⁵ 24		.	.	6.5	156	8.06
7			.	.	7.1	154	8.64
8	³⁴ 33		5.63	⁺²³ 77	9.03	7.8	1.46 9.26
9	⁴⁰ 39	4.00	4.0	5.64	⁺¹⁵ 9.64	8.5	1.39 9.89
12			4.5	5.66	⁺¹⁸ 10.16	9.0	1.34 10.34
14			4.8	5.64	⁺⁰⁹ 10.44	9.2?	1.33 10.53?
15			5.2	5.63	⁺²⁰ 10.83	7.97	1.33 <u>11.03</u>
16			5.9	5.57	11.47		
17			6.2	5.53	11.73		
18			6.7	5.49	12.19		
20			7.0	5.48	12.48		
21			7.3	5.47	12.77		
22			7.5	5.46	12.96		
23			7.9	5.46	13.36		
24			8.1	5.45	13.55		
25			8.2	5.45	13.65		
27			8.9	5.44	14.34		
28			9.4	5.43	14.83		
29			9.8	5.42	<u>15.22</u>		

pe
Wien b. plan

March 8, 1921

Sheet 446-

Sev

	Me 6178	Pole	Mag	pc	Sev 313
5	13	.	.	4.9	
6	13	.	.	5.5	
8	^{2.4} 2.3	.	.	6.5	
9	^{3.2} 3.1	563	8.83	7.1	
10	^{3.4} 3.3	564	9.04	7.3	
11	^{3.8} 3.7	566	9.46	7.9	
12	^{4.0} 3.9 4.00	4.0 4.1 566	9.66	8.3 8.7	
13	4.4	566	10.06	8.9	
14	4.7	565	10.35	9.2	
15	5.3	562	10.92	9.7	
16	^{5.60} 5.5 5.7	560	11.20		
17	5.9				
18	6.5				
19	6.9				
20	7.2				
21	7.5				
22	7.7				
23	7.9				
24	8.1				
25	8.3				
26	8.8				
27	9.3				
28	9.8				

Copied 4/12/29

11:25-

Sheet 448, 447

March 9 1921

Diff
8791 8796

	me	8791	8792	mean	Diff	pc	(See 509)	Mean	Diff	Diff.		
5	B ³⁴					5.9	6.0 ¹⁰	5.95	0.54	0.59 0.49		
6	B					6.7	6.5 ²⁰	6.60	0.51	0.41 0.61		
8	3.3			3.3	3.35	4.88	7.8	7.7 ¹⁰	7.75	0.48	0.43 0.53	
9	4.0 ⁴²	4.10		4.0	3.9	3.98	4.85	8.5	8.6 ¹⁰	8.55	0.28	0.33 0.23
10				4.3	4.1	4.20	4.82	8.8	8.9 ¹⁰	8.85	0.17	0.22 0.12
11				5.1	4.87	4.98	4.57	9.3	def	9.30	0.25	0.25 .
12				5.4	5.3	5.35	4.51	9.7	9.8 ¹⁰	9.75	0.31	0.16 0.06
13				5.7	5.7	5.70	4.60	7	.	.	.	.
14				6.1	6.0	6.05	4.60					
15				6.5	6.3	6.40	4.68					
16				6.8	6.60	6.70	4.70					
17				7.1	7.0	7.05	4.58					
18				7.7	7.5	7.60	4.46					
19				8.0	7.9	7.95	4.47					
20				8.5	8.3	8.40	4.33					
21				8.7	8.5	8.60	4.36					
22				9.0	8.8	8.90	4.29					
23				9.3	9.1	9.20	4.14					
24				9.5	9.3	9.40	4.24					
25				9.8	9.7	9.75	4.12					
26				7	7	.	.					

Reject? See note p. 12.
Reduce.
14 S.L.

$$\begin{array}{r} 283 \\ 18 \\ +16 \\ \hline \end{array}$$

This plate is qualified B & and was not measured originally

March 9, 1921

alt. + 0.17

Magn. from		MC 8795		Cu.		Magn PC		Ser 509		P.C. Magn from 8791 8796		P.C. - Primary 8791 8796	
8791	8796	3	B	.	.	6.0	0.55	6.55		6.50 ⁰³	6.53	.	.
.	.	4	B	.	.	6.7	0.52	7.22		7.16 ⁰¹	7.23	.	.
.	.	5	B	.	.	7.1	0.50	7.60		7.52 ⁰⁸	7.60	.	.
2	8.42 20	6	3.3 ³⁸	.	.	7.5	0.46	7.96		7.89 ⁰⁶	7.95	-33	-47
8.60	8.78 18	7	3.7 ³⁹	4.83	+16	8.53	8.3	0.39	8.69	8.62 ⁰¹	8.61	+02	-17
9.08	9.12 12	8	4.2 ⁴⁴ 4.30	4.2	+15	9.06	8.9	0.31	9.21	9.15 ⁰⁶	9.09	+15	-03
9.66	9.78 12	9	5.0 ⁵⁰ 5.00	5.0	+27	9.66	9.7	0.23	9.93	9.84 ¹¹	9.73	+18	-05
10.13	10.23 10	12	5.5	5.5		10.13							
10.42	10.50 08	14		5.8		10.41				18			
10.70	10.78 08	15		6.1		10.74				-21			
11.32	11.42 10	16		6.8		11.40				7			
11.59	11.70 11	17		7.1		11.67				00			
11.92	12.05 13	18		7.5		12.03							
12.27	12.39 12	20		7.9		12.36							
12.50	12.63 13	21		8.2		12.61							
12.75	12.90 15	22		8.5		12.85							
12.92	13.08 16	23		8.7		13.01							
13.17	13.31 14	24		9.0		13.26							
13.41	13.56 15	25		9.3		13.51							
13.83	13.92 09	27		9.8		13.92							

Shot 448

March 9, 1921

Set

mc 8796	Pole	* Ser 509
5 ^{5.1} 13		6.0
6 13		6.5
7 ^{3.3} 3.2		7.7
8	3.9	8.5 ^{8.60} 8.7
9		8.9
10	4.1	defect near
11 ^{5.0} 4.9 ^{4.87}	4.9 4.7	9.8
12	5.3	
13	5.7	
14	6.0	
15	6.3	
16	6.5 ^{6.60} 6.7	
17	7.0	
18	7.5	
19	7.9	
20	8.3	
21	8.5	
22	8.8	
23	9.1	
24	9.3	
25	9.7	
26	7	

* Same note applies to this series
as on p. 125

11:30

10:05

March 10, 1921

Sheet 447

Se U

MC 7372		Pole. Script 14		mc Mean		Diff
Sc 1	Sc 2	Pole	Script	7377	7377	
5 B		7377	B	55	560	1.51
6 B			57			0.89
8 Sup on gm			70.5			1.35
9 B			7.0 7.1	6.7	6.88	0.23
			7.5	7.3	7.40	1.43
10 4.5 4.3	L	4.5 4.5	4.57 7.7	7.5	7.60	0.82
11 4.7		4.80 4.75	4.80 8.0	7.9	7.95	1.42
12 4.9		4.9 4.90	4.96 8.3	8.1	8.20	1.60
13		5.2 5.2 5.20	5.10 8.7	8.5	8.60	1.66
14		5.5 5.5 5.50	5.15 9.0	8.9	8.95	1.70
15		5.9 5.8 5.85	5.23 9.3 9.5	9.2	9.30	1.78
16		6.1 6.1 6.10	5.30 9.8	9.7	9.75	1.65
17		6.3 6.3 6.30	5.33			
18		6.8 6.8 6.80	5.26			
19		7.0 6.9 6.95	5.47			
20		7.3 7.2 7.25	5.48			
21		7.5 7.5 7.50	5.46			
22		7.7 7.7 7.70	5.49			
23		7.9 7.8 7.85	5.49			
24		8.1 8.0 8.05	5.59			
25		8.3 8.3 8.30	5.57			
26		8.7 8.7 8.70	5.63			
27		9.0 9.0 9.00	5.69			
28		9.5 9.3 9.40	5.71			
29		9.9 9.7 9.80	5.86			

March 10, 1921

Sell

alt +17

MC 7374		64		80414	
Sc	Cu.	Mag	PC		
1 B	.	.	5.5	1.47	6.97
2 B	.	.	6.1	1.41	7.51
3 B	.	.	6.1	1.41	7.51
4 B	.	.	Sup	.	.
5 B	.	.	6.9	1.40	8.30
7 4.1	.	.	7.3	1.41	8.71
8 4.2	.	.	7.5	1.45	8.95
9 4.5 8.2	4.62	9.12	Sup.	.	.
11 5.0	4.96	-04 9.96	8.3	1.62	9.92
13 5.2	5.04	-08 10.24	8.5	1.66	10.16
14 5.5	5.14	-04 10.64	8.9	1.70	10.60
16 5.9	5.23	-22 11.13	9.2	1.71	10.91
17 6.3	5.31	-17 11.61	9.7 ?	1.74	<u>11.44 ?</u>
18 6.5	5.34		11.84		
19 6.8	5.40		12.20		
20 7.2	5.46		12.66		
22 7.5	5.50		13.00		
23 7.5	5.50		13.00		
24 7.9	5.55		13.45		
26 8.5	5.61		14.11		
27 8.7	5.64		14.34		
28 9.2	5.71		14.91		
29 9.7	5.80		<u>15.50</u>		

March 10, 1921

Sheet 447

Bell

	mc 7377	Pole.	Sep 414
	S_{c1}		S_{c2}
5	B		Supr.
6	B		5.5
8	B		6.7
9	B		7.3
10	4.5		7.5
11	⁴⁸⁰ 4.9 4.7		7.9
12	4.9		8.1
13		5.2	8.5
14		5.5	8.9
15		5.8	9.2
16		6.1	9.7
17		6.3	
18		6.8	
19		6.9	
20		7.2	
21		7.5	
22		7.7	
23		7.8	
24		8.0	
25		8.3	
26		8.7	
27		9.0	
28		9.3	
29		9.7	

Copied p 135

March 10, 1921

Sheet 447

Bell

MC 8791		Plate (Ser 509)		8746		246	
	So2	Diff	PC		7.140		
5	13	.	6.5	0.01	7.10	.	
6	13	.	7.1	0.00	7.00	10	
8	4.7	3.53	8.1	0.13	8.78	30	
9	5.3	3.53	8.7	0.13	8.7	00	
10	5.5	3.52	9.0	0.02	8.80	20	
11	6.0	3.55	9.5	0.05	.	.	
12	6.3	3.56	9.8	0.06	9.7	10	
13	6.7	3.60	n.s.	.		70	
14	6.9	3.75				5	
15	7.2	3.88				+14	
16	7.5	3.90					
17	7.8	3.83					
18	8.3	3.76					
19	8.5	3.92					
20	8.9	3.83					
21	9.1	3.86					
22	9.3	3.89					
23	9.5	3.84					
24	9.5	4.14					
25	9.7	4.17					
26	n.s.	.					

Plate badly fogged

This plate is quality B. Not measured originally

14

March 10, 1921

Alt +17

Alt. +0.17

Bell

MC 8795 129

(Ser 509)

Cu	MC 8796	Magn															
	3	13							6.9	0.04	6.94	0.23	7.13	+19			
	4	13							7.5	0.08	7.58	0.21	7.71	+13			
	5	13.5							7.8	0.10	7.90	0.21	8.01	+11			
-19	3.94	8.49	6	4.6	4.5	3.52	+2.3	8.07	13	8.1	0.10	8.20	0.20	8.30	+10		
+07	3.93	8.83	7			4.9	3.52	+4.8	8.42	37	8.7	0.09	8.79	0.20	8.90	+11	
+03	3.96	9.46	8			5.5	3.54	+4.5	9.04	30	9.3	0.04	9.34	0.19	9.49	+16	
+08	4.00	9.90	9			5.9	3.56	+5.2	9.46	34	9.8	0.00	9.80	0.18	9.98	+18	
404	10.34	12				6.3	3.60	+4.4	9.90						-98	7	
405	10.55	14				6.5	3.63	+4.2	10.13						+14		
410	10.90	15				6.8	3.68	+4.2	10.48								
420	11.70	16				7.5	3.79	+4.1	11.29								
424	11.94	17				7.7	3.81	+4.3	11.51								
431	12.31	18				8.0	3.84	+4.7	11.84								
436	12.66	20				8.3	3.88	+4.8	12.18								
440	12.90	21				8.5	3.90	+5.0	12.40								
441	13.11	22				8.7	3.91	+5.0	12.61								
445	13.35	23				8.9	3.93	+5.2	12.83								
445	13.55	24				9.1	3.95	+5.0	13.05								
450	14.00	25				9.5	4.00	+5.0	13.50								
452	14.32	27				9.8	4.04	+4.8	13.84								

Notice. MC pr from 8791 is 0.14 magn. brighter than from MC 8796
 MC primary " " " 0.48 " (approx) " " " " "

MC primary and pr from 8796 are in good accordance
 MC 8791 "badly fogged"

These differences are much larger than with Sents M (p. 153)
 MC 8791 Quality B Reject.

March 10, 1921

Sheet 447

Bell

MC 8796 Pole (Ser 509)			PC	
	⁵²² B	⁵²² B	Almost. sup	
5	B		7.1	6.9
6	B	.		0.11
8	B	.	7.8	0.43
9	4.9	393	8.7	0.13
10	5.1	392	8.7 ⁸⁸⁰	8.9
11	5.5	405	defective	.
12	5.8	406	9.7	0.16
13	6.3	400		
14	6.5	415		
15	6.9	418		
16	7.2	420		
17	7.5	413		
18	8.0	406		
19	8.1	432		
20	8.3	443		
21	8.5	446		
22	8.7	449		
23	8.9	444		
24	9.1	454		
25	9.5	437		
26	9.8?	453		
27				

12 -

11:30

ScV

March 14, 1921

Sheet 448

	Mc 6165 ³⁰ ScV	Mc 6170 ³⁰ ScV	Pole Mean	Diff	(Sor 311) pc	Mean	Diff
5	B				4.5	4.7	4.60 1.89
6	B				5.3	5.3	5.30 1.81
8	B				6.5	6.7	6.50 1.73
9	B		3.0 2.9	3.00	5.83	7.1	7.1 7.10 1.73
10	2.9		3.0 3.0	3.05	5.97	7.3	7.4 7.35 1.67
11	3.5		3.6 3.5	3.60	5.95	7.9	8.0 7.95 1.60
12	3.9 4.0		4.0 3.95	3.98	5.88	8.2	8.3 8.25 1.61
13			4.4 4.3	4.35	5.95	8.7	8.7 8.70 1.60
14			4.8 4.7	4.75	5.90	9.0	9.0 9.00 1.65
15			5.3 5.3	5.30	5.78	9.5	9.5 9.50 1.58
16			5.7 5.7	5.70	5.70	9.8	9.8 9.80 1.60
17			5.9 6.0	5.95	5.68	7	
18			6.5 6.5	6.50	5.56		
19			6.8 6.9	6.85	5.57		
20			7.1 7.2	7.15	5.58		
21			7.3 7.5	7.40	5.56		
22			7.5 7.7	7.60	5.59		
23			7.8 7.7	7.75	5.59		
24			8.1 8.0	8.05	5.59		
25			8.3 8.3	8.30	5.57		
26			8.8 8.7	8.75	5.58		
27			9.2 9.1	9.15	5.54		
28			9.7 9.6	9.65	5.46		

841

March 14, 1921

Dev

Alt. -- 27

Mr 6168		D 10		(Ser 31)	
1 B	301			5.7	5.5
2 B	502			5.5	1.82
3 B				5.8	1.81
4 B				6.1	1.80
5 B				6.1	1.77
6 B				6.3	1.77
7 B				6.3	1.75
8 B				6.5	1.74
9 B				7.1	1.70
10 2.5				7.3	1.70
11 2.9		5.95 +39	8.95	7.7	1.68
12 3.1		5.96 -10	9.16	7.3	1.65
13 2.9		5.95 +29	8.95	7.7	1.66
14 3.3		5.95 +17	9.35	7.9	1.64
15 5.0	510	5.1 5.82	10.92	8.5	1.62
16 3.8	365	3.7 5.95 +65	9.65	8.7	1.60
17		4.8 5.87	10.67	Nearly sup.	1.60
18		4.0 5.93 +57	9.93	8.9	1.60
19		4.9 5.86	10.76		10.50
20		5.7 5.73	11.43		
21		5.1 5.81	10.91		
22		5.3 5.80	11.10		
23		5.3 5.80	11.10		
24		5.7 5.73	11.43		
25		6.7 5.58	12.28		
26		5.9 5.70	11.60		
27		6.2 5.64	11.84		
28		6.5 5.60	12.10		

* Remains Mar 17

Copied B 8, 138, 139
mch 1714 7.9
15 9.3 161 10.91
16 8.8
17 sup.

* Wrong Alt meas for 15, 21, 26, 27, 28

March 14, 1921

SeV

	me 6168	D ₁₀ (cont)
29	^{5.2} 6.9	5.56 12.46
30	7.0	5.58 12.58
31	7.1	5.58 12.68
32	¹²⁰ 7.3 7.1	5.58 12.78
33	7.7	5.59 13.29
34	7.9	5.59 13.49
35	8.1	5.59 13.69
36	8.5	5.59 14.09
37	8.8	5.57 14.37
38	⁹⁴⁰ 8.9	5.55 14.45
39	9.5 9.3	5.50 14.90
40	9.5	5.49 14.99
41	9.7	5.47 15.17

Copied B 8:137

Dev

March 14, 1921

alt. +.13

	me bib	610	(Ser 311)		
	Cu.	Magn			
1	B	.	4.8	1.87	6.67
2	B	.	5.5	1.81	7.31
3	B	.	5.5	1.81	7.31
4	B ^{2.30}	.	5.9 ^{6.10}	1.77	7.77
6	^{2.2} 2.1 ^{2.4} 2.3	.	sup	.	.
7	^{2.2} 2.1	.	6.4	1.74	8.14
8	^{3.1} 3.0	5.96 -21	9.06 7.1	1.69	8.79
9	^{3.4} 3.3	5.95 -37	9.35 7.3	1.68	8.98
10	^{3.6} 3.5	5.95	9.55 sup	.	.
11	^{4.0} 3.9 4.00	4.0 5.93 -32	9.93 8.0	1.61	9.61
12		4.6 5.90 -20	10.50 8.7	1.60	10.30
13		5.0 5.84 -24	10.84 9.0	1.60	10.60
15		5.5 5.77 -16	11.27 9.5	1.61	11.11
16		5.7 5.73	11.43		
17		6.1 5.66	11.76		
18		6.5 5.60	12.10		
19		6.8 5.57	12.37		
20		^{7.00} 7.1 6.9 5.58	12.58		
21		7.8 5.59	13.39		
22		8.3 5.60	13.90		
24		8.7 5.57	14.27		
25		9.1 5.53	14.63		
26		9.5 5.49	14.99		
27		9.7 5.46	15.16		
28		7.9.8	.		

Copied B 8, 90

Sheet 448

March 14, 1921

Dev

mc 6170		Pole (Ser 311)	
ser 1	ser 2		
5 B		4.7	
6 B		5.3	
8 B		6.5	
9 ^{3.0} 2.9		7.1	
10 ^{3.1} 3.0		7.4	
11 ^{3.6} 3.5		8.0	
12 ^{4.0} 3.9 ^{3.95} 4.0	3.9	8.3	
13	4.3	8.7	
14	4.7	9.0	
15	5.3	9.5	
16	5.7	9.8	
17	6.0		
18	6.5		
19	6.9		
20	7.2		
21	7.5		
22	7.7		
23	7.7		
24	8.0		
25	8.3		
26	8.7		
27	9.1		
28	^{9.60} 9.5 9.7		
29	7		

Copied
Fe 14

11 30

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12:30

Measure of Bruce Photos - Long Ex.

Se RH3

March 22, 1921

Q 11777 D1		Se1	Se1	Diff
Se1	Se2			
3		3.0 305	3.1	488
Off Plate 4				
5		3.3 330	3.3	67 488
Off Plate 6				
" " 7		Se2 4.2	Se2	48
8		4.3 4.1	4.1 4.0	4.88
9		3.9 4.1 4.00	3.9 4.1	4.88
Off Plate 10				
11		5.1 5.5	5.2	426
12		5.5 5.50	5.5	399
13		5.3 5.30	5.3	435
14		5.2 5.25	5.3	460
15		5.7 5.70	5.7	425
16		6.1 6.10	6.1	413
17		6.5 6.50	6.5	425
18		7.1 7.20	7.3	384
19		7.3 7.40	7.5	373
20		7.7 7.75	7.8	341
21 3.3	8.08	8.1 8.05	8.0	333
22	3.8 7.80	8.5 8.50	8.5	310
23	3.9 7.97	8.5 8.60	8.7	327
24	4.0 7.96	8.7 8.5 8.67	8.8	329
25	4.3 7.89	9.0 ?	7	319
26	4.7 7.63			
27	4.9 7.54			
28	5.4 7.47			
	5.5 5.3			
29	5.5 7.39			

Measure of Bruce Plates Long Ex.

March 22, 1921

Plate 127

Q 11777	Count	Diff
30	5.9	7.32
31	6.1	7.30
32	6.3	7.29
33	6.7	7.14
34	6.8 ⁵	7.35
35	6.8 ⁵ 7.1	7.36
36	7.5 ¹⁴⁰ 7.3	7.05
37	7.9 ¹⁹⁵ 8.0	6.89
38	8.6?	6.60
39	Supr?	.
40	7	.
41		
42		
43		
16a		

6.5^{6.50} 6.5 3.94

Plate stained & defective
 Uncertain about ft. Plate -

1:25

Sc 4

Series 77

April 27, 1921

mf 4521 b12

[illegible]

M F Series

Dev

April 27, 1921

M F 4 5 2 6		E 1				Pc
	Sc 1	Sc 2		g 5.5	h 5.5	
1	B			5.3 5.60	6.3	7.8
2	B			5.5 5.50	5.5	7.7
3	B			5.3 5.30	5.3	7.7
4	B			6.1 6.05	6.0	8.1
5	tr			5.9 5.95	6.0	8.1
6	^{2.2} 2.1			6.3 6.25	6.2	8.3
7	^{3.0} 2.9			6.9 6.95	7.0	9.0
8	^{3.2} 3.1			7.1 7.20	7.3	9.3 9.40
9	^{3.1} 3.0 9			6.9 6.90	6.9	9.1
10	tr			6.7 6.70	6.7	8.9
11	^{4.1} 4.0	^{4.10}	4.1	7.9 7.95	8.0	7
12	^{3.1} 3.0			8.1 8.05	8.8	
13		^{4.20}	4.1 4.3	8.9 8.85	8.8	
14		^{4.80}	4.7 4.7	9.3 9.20	9.1	
15			4.9	9.1 9.10	9.1	
16			5.1	9.3 9.40	9.6	
17			5.5	7		
18			6.1			
19		^{6.60}	6.5 6.7			
20			6.7			
21			7.0			
22			7.2			
23			7.3	29 9.1		
24			7.8	30 9.5		
25			7.9	31 9.7		
26			8.0	32 9.7		
27			8.2	33 Supr		
28			8.8	34 9.8		

150

M F Series

April 27, 1921

Sev

M F 4532 L2		g ⁴⁹⁵ h		pc	
1	^{30.1} 13	4.9	5.0		7.1
2	13	5.1	5.1 ⁰		7.3
3	13	5.7	5.6 ⁰		7.9
4	^{2.3} 2.2	6.3	6.3 ⁰	W.S.	8.5 8.65
6	^{3.0} 2.9	7.1	7.1 ⁰		9.3.?
7	^{3.4} 3.3	7.5	7.5 ⁰		9.7
10	^{4.0} 3.9 4.00	8.0	8.05		
11		8.8	8.8 ⁰		
12		9.1	9.1 ⁰		
14		9.8	9.75		
16					
17					
19					
21					
22					
23					
25					
26					
27					
28					

1:30

10:10
SeV

MF Series

April 29, 1921

MF 4552 69			
3 B	5.5	5.50	Pe 7.7
4 B	6.2	6.25	8.3
5 ^{2.4} 2.3 ^{2.2} 2.1 ^{2.30}	6.5	6.50	8.5 8.7
6 ^{2.5} 2.4	6.9	6.90	8.9
7 ^{3.1} 3.0	7.9	7.95	9.9 fu
8 ^{3.6} 3.5	8.5	8.50	
9 ^{4.6} 4.5 ^{4.55}	9.1	9.05	
12	5.1		
14	5.7	5.5	
15	6.1		
16	6.5	6.8	
17	7.1		
18	7.8		
20	8.2		
21	8.5		
22	8.8		
23	9.5	fu	
24	9.8	fu.	
25	ns		
27	ns		
3a B	6.0	6.00	8.1
6a ^{2.6} 2.5	7.5	7.1 7.30	9.0
16a	6.7		

M7 Series

April 29, 1921

Dev

M7 4557 E7

	^{50'} B	^{5.2} 4557	^h 450	^{pc} 4.5	^h 4.5	^{pc} 6.7
1	B					
2	B		5.1	5.10	5.1	7.2
3	B		4.9	4.95	5.0	6.9
4	B		5.5		¹⁶⁰ +h	7.5 7.7
5	²² 2.1		+h		5.5	7.8
6	²⁴ 2.3		5.7	5.70	5.7	8.0
7	²² 2.1		5.9	⁵⁵ 5.70	5.9	8.0
8	²⁶ 2.5		6.3	6.30	6.3	8.3
9	²² 2.1		6.1	6.10	6.1	8.1
10	³¹ 3.0		6.9	6.95	7.0	9.0
11	²¹ 3.0 ³⁰ 2.9 ³⁰⁵		+h		6.9	9.0
12	²⁵ 2.4 ²⁶ 2.5 ²⁵⁵		6.5	6.60	6.5	8.9
13	³⁰ 2.9		7.0	7.00	7.0	⁹²⁰ 9.1 9.3 ? Prime
14	³⁴ 3.3		7.3	7.40	7.5	Supr
15	³⁶ 3.5		7.5	7.50	7.5	9.7 30 6.5
16	³⁶ 3.5		7.3	7.40	7.5	9.7 31 6.9
17	⁴⁰ 3.9	⁴⁰⁰	7.7	7.70	7.7	32 7.1
18	1	4.3	7.9	7.95	8.0	33 7.5
19		4.1	7.9	7.95	8.0	¹⁷⁵ 34 7.8 7.7
20		4.3	8.0	8.00	8.0	35 7.9
21		4.9	8.5	8.50	8.6	36 8.5
22		5.1	8.7	8.70	8.7	37 8.9
23		5.3	8.7	8.80	8.9	38 9.1
24		5.5	8.7	8.70	8.7	39 9.2
25		5.8	9.1	9.15	9.2	40 9.5
26		6.1	9.5	9.50	9.5	41 Too near br. cl.
27		⁶²⁰ 6.3 6.1	9.5		supr	42 9.7
28		6.3	9.8			43 9.8
29		6.3	9.8			44 7

M F Series

Dev

	S ₀₁	S ₀₂	April 29, 1921	h	PC
1	7 4 5 6 3	C 10	⁹ 4.9 4.90	4.9	7.0
2	B		5.5 5.50	5.5	7.5
3	B		5.5 5.50	5.5	7.7
4	B		6.1 6.05	6.0	8.1
5	—		tp	7.1	9.0
6	^{2.1} 2.0		tp	7.1	9.0
7	B		tp	6.9	8.9
8	^{2.8} 2.7		8.1 8.00	7.9	9.8
9	^{3.2} 3.1		8.3 8.40	8.5	
10	^{3.6} 3.5 ^{4.4} 4.3 ^{4.20}	4.3	8.5 8.7 8.63	8.7	
11	^{4.2} 4.1	4.1	9.0 9.00	9.0	
12		5.0	9.5 9.60	9.7	
13		5.5	9.9	7	
14		6.1			
15		6.1			
16		6.7			
17		7.1			
18		^{7.95} 8.1 7.8			
19		8.7			
20		8.9			
21		9.8? ft.			
22		n.s.			
24					
25					

Bon Plate?

12:40

M C Series 916

May 2, 1921

M.C. 916		P-156		P-156		P-156	
5	B	3.1	3.5	3.5	3.5	3.5	3.5
6	B		Diff	4.2	4.15	4.1	4.50
8	2.1	2.30	2.4	5.93	6.5	6.40	6.30
9	2.7	2.90	3.0	5.93	7.1	7.20	7.10
10	2.9	3.05	3.1	5.97	7.5	7.50	7.30
11	3.5	3.60	3.6	5.95	7.9	7.95	7.85
12	3.8	3.90	3.9	5.96	8.2	8.25	8.20
13		4.30	4.3	6.00	8.8	8.85	8.75
14		4.75	4.7	5.90	9.2	9.35	9.20
15		5.25	5.3	5.83	9.8		9.05
16		5.60	5.5	5.80	Diff		PC
17		6.10	6.1	5.53	5	2.84	Diff
18		6.70	6.7	5.36	6	2.79	1.29
19		6.95	7.0	5.47	7		1.21
20		7.30	7.3	5.43	8	1.88	0.83
21		7.5		5.46	9	1.68	0.83
23		8.10	8.1	5.24	10	1.62	0.72
25		8.70	8.7	5.12	11	1.65	0.67
26		9.40	9.5	4.93	12	1.64	0.36
27		7			13	1.50	
					14	1.45	
					15	1.28	

MC Series 916

SeV

May 2, 1921

MC 14821		Variable		17 30 - 12.5		(Barnard)			
SeV	502	Cu	Magu	g	6.10	h	Cu	10C	
a ^{2.1} 2.0		5.93	8.03	6.1	6.10	6.1	1.99	8.09	8.0 0.78 8.78
b ^{2.6} 2.5		5.94	8.54	6.5	6.40	6.3	1.90	8.30	8.3 ? 0.72 9.02
c ^{3.1} 3.0		5.96	9.06	7.3	7.20	7.1	1.73	8.93	8.8 0.63 9.43
d ^{3.6} 3.5		5.98	9.58	7.8	7.85	7.9	1.63	9.48	9.1 0.58 9.68
e ^{4.1} 4.0 4.10	4.1	5.97	10.07	8.3	8.30	8.3	1.54	9.84	defect near.
Red ink a = f ^{4.6} 4.5 4.65	4.7	5.92	10.57	8.8	8.85	8.9	1.51	10.36	
g	4	5.9 5.88	10.78	9.1	9.20	9.1	1.44	10.74	
h		5.3 5.80	11.10	9.8		7	1.36	11.16	
k		5.5 5.75	11.25						
l		5.5 5.75	11.25						
m		6.1 5.64	11.74						
n		6.7 5.53	12.23						
" " d = u		7.2 5.43	12.63						
" " e = v		7.3 5.40	12.70						
" " f = w		7.7 5.33	13.03						
" " g = x		8.1 5.24	13.34						
" " h = y		8.5 5.17	13.67						
" " i = z		9.1 4.98	14.18						
" " k = t		9.1 9.3							
u		7							
w		2.5							

Mc Series 916

May 2, 1921

Mc 14823

Bob

5	^{5.1} B	^{5.2}	^{7.380} 8.7	^h 3.9	5.1
6	B		^{4.5-4.50} 4.5	4.5	5.7
8	^{2.4} 2.3		^{6.30} 6.3	6.3	7.5
9	^{3.0} 2.9		^{7.10} 7.1	7.1	8.0
10	^{3.1} 3.0		^{7.30} 7.3	7.3	8.3
11	^{3.6} 3.5		^{7.85} 7.8	7.9	8.9
12	^{3.9} 3.8	3.90	^{8.1} 8.1	^{8.20} 8.3	9.5
13		4.3	^{8.7} 8.7	^{8.75} 8.8	
14		4.8	^{9.0} 9.0	^{9.05} 9.1	
15		5.3			
16		5.7			
17		6.1			
18		6.7			
19		6.9			
20		7.3			
23		8.1			
25		8.7			
26		9.3			
27		9.8?			

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Sev

MF Series

May 16, 1921

MF 4586

b 10

	Sc 1	Sc 2	g	50 ^s	L	pc
1	B		5.0	50 ^s	5.1	7.3
2	B		5.5	56 ⁰	5.7	7.8
3	B		5.5	55 ⁰	5.5	7.5
4	B		6.1	61 ⁰	6.1	8.0
6	2.2		7.1	70 ^s	7.0	9.0
7	B		6.8	68 ⁰	6.8	8.7
8	2.9		7.5	76 ⁰	7.7	9.5
9	3.3		8.0	80 ⁰	8.0	9.8
10	3.8	3.95	8.1	82 ⁰	8.3	
11		4.0	8.5	85 ⁰	8.5	
12		4.5	9.0	90 ⁰	9.0	
13		5.3	9.5	94 ⁰	9.3	
15		5.7	7			
16		6.3				
17		6.7				
18		7.2				
19		7.8				
20		8.2				
21		8.5				
22		8.9				
23		ns				
24		9.5				
25		9.8				

M7 Series

Dev

May 16, 1921

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M F Series

May 16, 1921

Dev

M F 4588 E8

1	5.1 13	5.2	9	5.3 5.1	5.20	5.1	5.3	7.7
2	13			5.3	5.40	5.5		7.7
3	13			5.5	5.60	5.7		7.8
4	13			5.0	5.05	5.1		7.3
5	2.1 2.0			5.7	5.70	5.7		8.0
6	3.0 2.9	2.8 2.7	2.90	6.7	6.70	6.7		9.1
7	13			5.5	5.50	5.5		7.9
8	2.3			5.9	5.95	6.0		8.1
9	2.3 2.2	2.4 2.3	2.35	6.1	6.10	6.1		8.3
10	3.2 3.1			6.9	6.90	6.9		9.1
11	2.8 2.7			6.5	6.50	6.5		8.7
12	3.0 2.9			6.9	6.90	6.9		9.0
13	3.0 2.9			7.1	7.05	7.0		9.20 9.3 9.1
14	3.1 3.0			7.3	7.30	7.3		9.5
15	3.8 3.7	3.85	3.9	7.9	7.8 7.90	8.0		Supr
16	3.2 3.1			7.9	7.90	7.9		9.8?
17	4.1 4.0	4.10	4.1	8.1	8.05	8.0		
18			4.3 4.80	8.3	8.30	8.3		
19			4.7 4.9	9.0	8.95	8.9		
20			5.0	9.3	9.20	9.1		
21			5.2					
22			5.3					
23			5.7					
24			6.2					
25			6.5					
26			6.7					
27			7.1					

M7 Series

May 16, 1921

M7 4588 cont

28		7.1
29	ww	⁷ 6.5
30		7.5
31		¹⁶⁰ 7.7 7.5
32		7.8
33		7.7
34		8.3
35		8.7
36		⁸⁹ 8.9
37		⁹²⁰ 9.1 9.3
38		9.7

MF Series

Dev

May 16, 1921

S Wides.

MF 4589							pc
				W.S.			
a	²⁶ 2.5	³⁰⁰		^{97.1} 5.1	^{71.0}	^{17.1} 5.2	9.3
b	³¹ 3.0	²⁹ 2.8		7.3	^{73.0}	7.3	9.3
c	⁴⁴ 4.3	4.45	4.5	^{9.0} 8.0	^{89.0}	8.8	
d			5.2	9.5	^{95.0}	9.5	
e			6.1				
f			5.8				
g			6.5				
h			7.1				
k			7.5				
l			8.1				
m			^{88.0} 8.7 8.9				
a'	²⁴ 2.3			6.1	^{61.0}	6.1	8.2
b'	⁴¹ 4.0	^{4.10}	4.1	8.7	^{87.0}	8.7	
a B				5.1	^{42.0}	4.3	6.5

M7 Series

May 16, 1921

Oct

M7 4591			6011		h		PC
1	²³ B				⁴⁷⁰ 4.7	4.7	6.8
2	B				4.9	⁵⁰⁰ 5.1	7.1
3	B				5.7	⁵⁸⁰ 5.9	7.7
4	B				6.0	⁶⁰⁰ 6.0	8.0
5	²³ 2.2				6.3	⁶³⁰ 6.3	8.5
6	²⁴ 2.3				6.5	⁶⁵⁰ 6.5	8.8
7	³⁰ 2.9				6.9	⁶⁹⁰ 6.9	9.1
8	³² 3.1				7.3	⁷³⁰ 7.3	9.5?
10	³⁸ 3.7				7.7	⁷⁷⁰ 7.7	
12	⁴⁰ 3.9	4.05	4.1		8.1	⁸³⁰ 8.1	
14			4.3		9.0	⁸⁹⁰ 9.0	
15			⁴⁹⁵ 5.0	4.9	9.0	Sup	
16			5.7				
17			5.9				
20			⁶²⁰ 6.3	6.1			
23			6.8				
24			7.3				
25			7.5				
26			7.8				
27			8.1				
28			8.5				
29			8.8				
30			9.3				
31			9.7				

2.35

Plots 3, 4, 5

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May 17, 1921

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May 17, 1921

82V

MC17408
Se1 Se2

2.1501
22.20

28
352.7

3.1
45 30

5, 3.7

40 3.9

8 m.

2 m

2	4	13
---	---	----

44 39

5.

1

2.1

0.00

mc 17409 Bal

2 B

3 13

09 2.80

2700

3.2 3.2

28

22

32

31 to 65-67

34 72-71

Mc Series

Dev

May 17 1921

Diet	Mc 17410	802	26	11	00 - 15	pc	2890	h
+71l	1	5.1			3.8 3.85	3.9	4.5	8.9
-92l	2	2.1			4.1 4.10	4.1	5.0	9.3 9.30
+33r	3	2.1			4.3 4.30	4.3	5.1	9.3 9.30
+56r	4	2.1			4.3 4.30	4.3	5.1	9.5 9.50
+22r	5	2.2			5.1 5.10	5.1	5.8	9.8?
-42r	6	2.6			5.5	tp	6.1	
-28	7	2.6			5.5 5.50	5.5	6.1	
+38	8	2.6			5.7 5.70	5.7	6.3	
-17l	9	2.9			6.1 6.10	6.1	6.7	
	10	3.1						
-29r	11	3.0			6.5 6.40	6.3	7.0	
-38r	12	3.0			6.5 6.50	6.5	7.1	
-23l	13	3.4			7.0 7.00	7.0	7.7	
+21r	14	3.3			6.8 6.75	6.7	7.5	
-26r	15	3.5			7.1 7.00	6.9	7.5 7.60	7.7
-20r	16	3.6			7.1 7.10	7.1	7.7	
+18l	17	4.1	4.10	4.1	7.5 7.50	7.5	8.1	
-10l	18			4.3	7.9 7.95	8.0	8.5	
+20r	19			4.7	8.3 8.30	8.3	8.9	
2	20			4.9	8.7 8.70	8.7	9.5	
-12	21			5.5	9.3 9.30	9.3	9.8	
-13l	22			5.5	9.5 9.50	9.5		
+12l	23			5.7	Supr	9.7		
+12r	24			6.0				
-18r	25			6.1				
-8	26			6.3				
-7	27			6.5				
-14l	28			6.7				

Mc Series

May 17, 1921

Dist.

Mc 17410

D 26

-4	29	72	
-10	30	75	
-12 μ	31	7.5	
-10	32	75	
-10 μ	33	7.5	
-12 μ	34	7.6	
-11 μ	35	80	
-7	36	8.5	
-4	37	87	
-10 μ	38	8.5 8.7	
-8	39	90	
-10	40	93	
-10	41	97	
-10	42	98 ?	

Mc Series

May 17, 1921

Dev

Dist.
mm

-57L

2

Sc 1
13

-7r

3

13

+94r

8

2.5
24

+98r

9

3.0
2.9

Mc 17411

Sc 2

Pole

+3.20

+91.4

11

30^m +93.2

3.2

2.7

PC

9

L

3.1

3.20

3.2

+p

6.5

5.1

5.3

3.5

+p

7.3

5.1

5.20

6.3

ns

5.7

5.70

6.8

M C Series

May 17, 1921

Dev

Dist. mm		M C 7 ⁴ 5 ¹ 14 ² 22 ²	Obs.	13 ⁰	+91.4	pc	g	h
8r	5	B		3.8	3.8 ⁰	3.8	4.0	8.0
+83r	6	B		4.2	4.1 ⁵	4.1	4.5	8.7
+23r	8	2.2 ²³ 2.0 ²¹		5.5	5.5 ⁰	5.5	5.7	9.7
+27r	9	2.5 ²⁶		6.3	6.3 ⁰	6.3	6.5	
53r	10	2.5 ²⁶		6.5	6.6 ⁰	6.7	6.7	
81r	11	3.1 ³²		6.9	6.9 ⁵	7.0	7.3	
82r	12	3.5 ³⁶		7.3	7.4 ⁰	7.5	7.8	
-75r	13	3.9 ⁴⁰ 4.00	4.0	7.7	7.7 ⁰	7.7	8.1	
58r	14		4.3	8.0	8.0 ⁰	8.0	8.3	
+65r	15		4.7	8.3	8.4 ⁰	8.5	8.7	
-59r	16		5.0	8.7	8.8 ⁰	8.9	8.9	
-68r	17		5.3	9.2	9.2 ⁵	9.3	9.4	
-65r	18		6.0					
64r	19		6.4					
62r	20		6.7					
62r	23		7.5					
64r	25		8.0					
62r	26		8.7					
60r	27		8.9					
66r	28		9.5					
"	29		9.9					
"	30		7					

MC Series

May 17, 1921

Diet.		Mc 17412		13 01 + 91.4		pc	
off PL		Se1	Se2				
-70r	2r	1.9		4.7	4.7	5.1	9.5
off PL	3r						
-71r	4r	3.0		5.9	5.9	6.5	
off PL	5r						
+64r	6r	3.8		7.5	7.7	8.0	
68r	7r		4.3 4.1	7.8	7.8		
-70r	8r		4.7	8.5	8.5		
-76r	9r		5.5	9.1	sup		
71r	10r		6.3	7			
66r	11r		6.9				
62r	12r		7.5				
off PL	2r						
+70r	4r	3.7 3.5	3.9	7.9	7.9	8.1	
66r	5r		4.9	8.1	8.1		
72r	6r		5.1	8.7	8.7		
66r	8r		8.0				
63r	9r		8.5				
60r	10r		9.3				

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Mc Series

Dev

May 17, 1921

Dist.	Mc 74 63	15	+ 90.3	pc	h
-42l	5 ^{50.1} 13		³⁶ 3.5 ³⁶ 3.6 ³⁶ 3.5	3.7	^{8.00} 8.1 7.9
+38r	6 13		4.1 4.05 4.0	4.4	^{8.70} 8.7 8.7
-31l	8 ^{2.1} 2.0		5.1 5.10 5.1	5.5	^{9.75} 9.7 9.8
-36l	9 ^{2.8} 2.7		6.0 5.95 5.9	6.3	
+6	10 ^{3.0} 2.9		6.3 6.30 6.3	6.7	
+32r	11 ^{3.4} 3.3 3.1		6.7 6.80 6.9	7.3	
+35r W.S.	12 ^{3.6} 3.5		7.3 7.30 7.3	7.7	
+30	13 ^{3.9} 3.8		7.8 7.80 7.8	8.1	
-13a	14 3.8 3.90	3.9	8.1 8.10 8.1	Stained	
+17r	15	4.3	8.5 8.60 8.7	"	
-20r	16	4.7	8.9 8.95 9.0	"	
-28r	17	5.0	9.3 9.40 9.5		
-24r	18	5.7	7		
-21r	19	6.1			
-18r	20	6.5			
-18r	23	7.2			
-21r	25	7.7			
-20r	26	8.3			
-16	27	8.8			
+18r	28	9.5			
"	29	7			
"	30	ns			

Dev

MC Series
May 17, 1921

Dist. mm	MC 17413 Sc 1	Sc 2	g	h	pc	g	h
-47n	2n B		4.1	4.10	4.1	7.7	
+82n	3n 2.3		5.3	5.30	5.3	4.9	7
-57n	4n 2.5		5.8	5.80	5.8	6.3	
+55n	5n 3.2		7.1	7.05	7.0	6.7	
+17n	6n 3.4		7.7	7.70	7.7	7.5	
-25 w.s	7n 3.9	3.95	8.1	8.20	8.3	8.1	
-29n	8n	4.7	9.0	9.00	9.0	8.7	
+32	9n	5.3	9.5	9.50	9.5?	9.5-	
+27n	10n	6.2					
+21	11n	6.7					
-19n	12n	7.5					
+78n	2n B						
+22n	4n 3.5						
+21	5n	4.1	8.3	8.20	8.1		
+27n	6n	4.9	8.8	8.80	8.8		
+21	7n	6.9					
+30n	8n	7.9					
-18n	9n	8.7					
-16	10n	9.5					

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3-30

Dev

MC Series

May 17, 1921

Dist.	MC	17414	Bole	12 ^h	+90°	PC	g	h
+48L	5	B		9.36	3.60	3.60	4.1	8.1
+39L	6	B		4.7	4.5	4.5	5.0	9.0
+40L	8	2.2		5.5	5.50	5.5	6.1	7
+45L	9	2.7		6.1	6.10	6.1	6.5	6.7
+5	10	3.0		6.5	6.50	6.5	6.9	
25L	11	3.3		7.1	7.10	7.1	7.5	
-17L	12	3.5		7.5	7.50	7.5	7.9	
-21L	13	3.9	4.00	7.9	7.95	8.0	8.5	8.3
-4	14		4.3	8.1	8.15	8.2	8.8	
+11L	15		4.7	8.5	8.60	8.7	9.3	
-12L	16		5.1	9.3	9.30	9.3	9.8	
-18L	17		5.5	9.7	9.70	9.7		
-15L	18		6.1					
12L	19		6.5					
10L	20		6.9					
+11L	23		7.5					
12L	25		8.1					
10L	26		8.7					
-7L	27		9.2					
-11L	28		9.8					
"	29		7					
	30							

mc Series

May 17, 1921

ScV

Dist _{mm}	mc 17414 cont:	g	h	pc
-40l 2n	Sc1 B	4.3 4.30	4.3	5.2 +h 9.7
-74n 3n	2.6 2.5	5.5 5.60	5.7	6.3
-50l 4n	2.6 2.5	6.3 6.40	6.3	6.95 7.0 6.9
-48n 5n	3.3 3.2	7.1 7.10	7.1	7.5
+18n 6n	3.6 3.5	7.5 7.60	7.7	8.1
-16n 7n	4.0 3.9 4.00	8.3 8.30	8.3	8.9
-20n 8n	4.60 4.5 4.7	8.7 8.75	8.8	9.3
-23n 9n	5.3	9.7	Sup	9.7
-18n 10n	6.3			
13n 11n	6.8			
10n 12n	7.7			
-70n 2x B		3.36 3.60 3.36	3.5	3 8.05
+27n 4x 3.5	3.7 4.65	7.7 7.70	7.7	4.8 8.1 8.0
13n 5x	5.0 4.7	8.5 8.60	8.7	
-19n 6x	5.1	8.9 8.85	8.8	
13n 7x	6.9			
26n 8x	8.1			
+11n 9x	8.7			
-7n 10x	9.5			

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174

1130

D.V

Mc Series

May 24, 1921

Dist. min	Mc 17415	Pole	12 ^h	+89°5'	pc
+68l	5 B		9.35	3.50	4.0
+31r	6 B		4.0	4.05	4.7
+57l	8 ^{2.3} 2.2 ^{2.1} 2.0		5.3	5.20	5.7
+61l	9 ^{2.8} 2.7		6.1	6.10	6.5
+21l	10 ^{3.0} 2.9		6.3	6.40	6.8
-7r	11 ^{3.3} 3.2		6.7	6.95	7.3
-13r	12 ^{3.6} 3.5		7.7	7.70	8.0
-14l	13 ^{3.9} 3.8 ^{3.95}	4.0	8.0	8.05	8.5
-19l	14	4.3	8.3	8.30	8.9
+10l	15	4.7	8.8	8.85	9.3
-23l	16	5.0	9.3	9.30	9.7
-21l	17	5.5	9.7	9.70	
-20l	18	6.1			
-15l	19	6.5			
-17l	20	6.9			
-14l	23	7.5			
-15l	25	8.0			
-17l	26	8.5			
-16l	27	9.1			
-10l	28	9.7			
"	29	7			

Inter

MC Series

May 24, 1921

Sev

Dist. MC 17415 cont

	^{5.1}	^{5.2}	⁷	^h	^{pc}	^g	^h
-47l	2n 13		4.5 450	4.5	5.3	tp	9.5
-55n	3n 2.5		5.7 570	5.7	6.3		
-58l	4n 2.7		6.1 610	6.1	7.0		
-29n	5n 3.2		7.3 730	7.1	7.7		
+18l	6n 3.5		8.1 810	8.1	8.2		
-14l	7n 3.9	4.00	8.3 830	8.3	8.7		
-18l	8n	4.8	8.7 880	8.9	9.3		
-14	9n	5.5	9.7 960	9.5			
-8l	10n	6.3					
-12l	11n	6.9					
-17l	12n	7.7					
-51n	2n 13		^{3.6} 3.5 ^{3.60}	^{3.6} 3.5	4.1	8.0	8.0
+10l	4n 3.4		7.8 780	7.8	8.0		
-13l	5n	4.7	8.3 840	8.5			
-7l	6n	5.0	9.0 895	8.9			
-13l	7n	7.0					
-6n	8n	8.2					
-14l	9n	8.7					
-16l	10n	9.3					
-13l	11n	9.8					

Mc Series

May 26, 1921

Dist. mm	Mc 17416	Pole 12 ⁺ +89°0	h	pc	z	h
+83l	5 ⁵⁰¹ B		4.5	4.1	4.5	7.8
+32l	6 B		3.9 3.9 ⁵	4.6	9.1 ^{9.0}	9.1
+72l	8 ^{2.2} 2, 1 ₃₀		5.1 5.1 ⁰	6.0	7	
+75l	9 ^{3.1} 3, 0 ²⁹		5.8 6.0	6.5	6.7	
+36l	10 ^{3.2} 3, 1		6.1 6.2 ⁰	6.7		
-10l	11 ^{3.5} 3, 4		7.0 7.0 ⁵	7.5		
-17l	12 ^{3.6} 3, 5		7.5 7.5 ⁰	7.9		
-23l	13 ^{3.9} 3, 8 3.9 ⁵	4.0	8.0 8.0 ⁰	8.3		
33l	14	4.3	8.3 8.4 ⁰	8.8		
+25l	15	4.9	8.8 8.8 ⁰	nearly sup		
-37l	16	5.2	9.1 9.2 ⁰	7		
-32l	17	5.5	9.5 9.6 ⁰			
-33l	18	6.1				
-28l	19	6.6 ⁰ 6.7 6.5				
-30l	20	6.9				
-28l	23	7.5				
-28l	25	8.0				
-30l	26	8.7				
30l	27	sup				
24l	28	9.7				
	29	7				

MC Series

May 26, 1921

SeV

Diet.	Se1	Se2	g	h	PC
-56l 2m 13			4.3 4.40	4.5	5.3
-42r 3m 24	25		5.9 5.85	5.8	6.5
-69l 4m 29	30		7.1	6.2	7.0
-17r 5m 33	34		7.5 7.40	7.3	7.9
+29l 6m 35	36		8.0 8.00	8.0	8.5
-26l 7m		4.1	8.3 8.30	8.3	8.9
-29l 8m		4.9	8.9 8.90	8.9	9.5
-22l 9m		5.7	9.7 9.70	9.7	
-20l 10m		6.50 6.3			
-16l 11m		6.8			
-30l 12m		7.5			
-37r 2m 13			36 3.50 34	3.3	4.1 8.0 7.9
+20l 4m 35	30		7.7 7.70	7.7	8.1
-27l 5m		4.8	8.5 8.50	8.5	
-18l 6m		5.1	8.7 8.80	8.9	
-27l 7m		7.0			
-13l 8m		8.1			
-28l 9m		8.5			
30l 10m		9.1			
-27l 11m		9.8?			

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Mc Series

Dev

May 26, 1921

Pole (Plate badly broken) 12^h +88°

Dist.	Mc 17417	3.1	3.2	4.0	4.00	4.0	4.7	tp	9.3q
Off Pl.	5								
+56l	6	B							
" "	8								
" "	9	3.2							
+74l	10	3.1		6.3	6.30	6.3	6.8		
47l	11	3.5		7.0	7.00	7.0	7.7	7.5	
-50l	12	3.8	3.90	7.5	7.50	7.5	7.9		
-58l	13		4.1	7.8	7.85	7.9	8.5		
71l	14		4.4	8.3	8.20	8.1	8.9		
+62l	15		4.9	8.7	8.75	8.8	9.3		
-73l	16		5.3	9.3	9.30	9.3	Sup?		
-68l	17		5.5	9.7	9.70	9.7			
-69l	18		6.2						
-65l	19		6.5						
-68l	20		6.8						
-66l	23		7.3						
-66l	24		7.5						
-65l	25		7.9						
-67l	26		8.5						
68l	27		9.1						
62l	28		9.6						

Mc Series

May 26, 1921

Se V

Mc 17417 cont									
Dist ^{mm}									
-88l	2r	^{Sc1} 2.2	^{Sc2}	4.3	4.30	4.3		PC	5.5
-21	3r								
-99l	4r	^{3.1} 3.0		6.0	5.95	5.9		7.0	
-21	3r	On crack							
+64l	6r	^{4.0} 3.9	^{4.00} 4.0	7.8	7.80	7.8		8.3	
-62l	7r		4.4	8.3	8.30	8.3		8.7	
-63l	8r		5.0	8.9	8.90	8.9		9.3	
-56l	9r		5.7	9.8	9.85	9.797			
56l	10r		6.8						
-63l	11r		7.0						
-68l	12r		7.5						
-7	2A	B		^{3.6} 3.5	^{3.60} 3.6	^{3.6} 3.5		4.2	^{8.10} 8.1 8.1
-43r	3A	B		3.9	3.85	3.8		4.5	^{8.50} 8.5 8.5
+56l	4A	^{3.8} 3.7		7.8	7.80	7.8			
-63l	5A		4.9	8.3	8.30	8.3			
55l	6A		5.1	8.7	8.80	8.9			
-63l	7A		6.9						
50l	8A		8.1						
-66l	9A		8.5						
68l	10A		9.37						
-29l	5r	^{3.6} 3.5		7.5	7.50	7.5		8.0	

Mc Series

May 26, 1921

Bole

Dev	Dist.	MC 17418	12 ^h + 87°	pc
+88l	6 B	5.1	4.1	4.9
+39l	7 B	5.2	4.5 4.5°	5.3
84l	11 ^{3.5} 3.4		6.9 6.9°	7.5
-87l	12 ^{3.6} 3.5	3.7	7.3 7.3°	7.8
-95l	13	4.1	7.7 7.8°	8.3
-43l	3 n B		6.0 6.0°	6.5
+ ¹⁰¹ 71l	6 n Off film			
-92l	9 n	5.3	9.7 9.7°	9.8
on edge -	10 n	6.1		
-65l	5 n ^{3.6} 3.5		7.3 7.3	8.0
-38l	2 n B		^{3.5} 3.4 3.5°	4.0 tp 7.9
+91l	4 n ^{3.5} 3.4		7.5 7.5°	8.2
91l	6 n	4.9	8.7 8.7°	
-13n	3 n B		4.0 3.9°	4.3 8.2

Mc Series
May 26, 1921

Dev

Dist. mm	MC 17419	602	low	g 4h	h 4.5	PC 5.3
-39L	2m 13	50.1				
-73L	3m 2.3	24		5.7 5.70	5.7	6.5
-49L	4m 30	31		6.1 6.10	6.1	7.1
-48L	5m 3.3	34		7.3 7.30	7.3	7.7
+19L	6m 3.5	36		7.8 7.85	7.9	8.3
-15L	7m 4.1 4.15	42	4.1	8.3 8.30	8.3	8.8
-19L	8m	460	4.7 4.5	8.9 8.95	9.0	9.5
-22L	9m		5.5	9.5 9.60	9.7	
-18L	10m		6.7			
-11L	11m		7.0			
-9L	12m		7.5			
-70L	2m 13			3.6 3.5 3.60 3.5		4.2 7.8 8.0
+20L	4m 3.5 3.55	30	3.7	7.7 7.70	7.7	7.9
-12L	5m		4.9	8.5 8.50	8.5	9.0
-19L	6m		5.0	8.7 8.60	8.5	
-12L	7m		6.9			
-22L	8m		8.1			
-6L	10m		9.5			
-8L	9m		8.5			

MC Series

May 26, 1921

Dev

dist. mm	MC 17414	Sec 1	Sec 2	pc
+48L	5	3	3.4	4.3
+39L	6	3	3.55	5.0
+40L	8	2.4	4.40	6.1
+45L	9	2.3	5.5	6.7
+5	10	2.9	5.50	7.0
25L	11	3.1	6.05	7.5
-17L	12	3.6	7.05	7.8
-21L	13	3.8	7.5	8.2
-4	14	4.1	7.9	8.7
+11L	15	4.05	8.3	9.3
-12	16	4.05	8.40	9.55
-18L	17	4.05	8.5	9.8
-15L	18	4.05	9.1	9.8
12L	19	4.05	9.70	9.8
10L	20	4.05	9.7	9.8
+11L	23	4.05	9.7	9.8
12L	25	4.05	9.7	9.8
10L	26	4.05	9.7	9.8
-7L	27	4.05	9.7	9.8
-11L	28	4.05	9.7	9.8

This plate left until last - by mistake. Also measured p. 172

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MC Series

May 26, 1921

Dist. mm	MC 17414 cont-							
-40l	2n 13	Sc 1	Sc 2	9	440	h	PC	z
-74n	3n 2.3	2.4		4.3	440	4.5	5.2	4.5
-50l	4n 2.5	2.6		5.5	5.50	5.5	6.3	
-48n	5n 3.3	3.4		6.3	6.40	6.5	6.9	
+18n	6n 3.5	3.6		7.0	7.05	7.1	7.5	
-16n	7n 3.9	4.0	4.50	7.5	7.50	7.5	8.2	
-20n	8n		4.5	8.3	8.30	8.3	8.9	
-23n	9n		5.3	8.7	8.75	8.8	9.5	
-18n	10n		6.2	9.7	9.70	9.7?	7	
+13n	11n		6.8					
10n	12n		7.5					
-70n	2n 13			36	3.5	3.5	4.5	8.0
+27n	4n 3.5	3.6		3.5	3.55	3.4	8.1	
13n	5n		4.8	7.7	7.75	7.8	8.1	
-19n	6n		5.2	8.5	8.60	8.7		
13n	7n		6.9	8.9	8.95	9.0		
26n	8n		8.1					
+11n	9n		8.7					
-7n	10n		9.3?					

4.0

11 -
Dev

M F Series

May 31, 1921

M F 4616		b 10		h.		r _c 7.40	
Sc 1	Sc 2						
1 B		4.5	46°	4.7		7.3	7.5
2 B		5.3	53°	5.3		7.8	
3 B		5.3	53°	5.3		7.7	
4 B		5.7	57°	5.8		8.3	
6 ²⁶ 2.5		6.5	66°	6.7		9.1	
7 ²² 2.1		6.3	63°	6.3		8.7	
8 ³⁴ 3.3		7.1	72°	7.3		9.5	
9 ³⁶ 3.5		7.7	77°	7.7		9.8	
10 ⁴² 4.1	42°	7.9	79°	8.0			
11	5.0	8.8	88°	8.9			
12	5.3	9.1	92°	9.3			
13	5.7	9.5	95°	9.5			
15	6.1	7					
16	6.5						
17	7.0						
18	7.5						
19	8.0						
20	8.5 ^{84°} 8.3						
21	8.7 ^{88°} 8.9						
22	9.1						
24	9.7 ^{96°} 9.5						
25	7						
11a	5.5						

MF Series

Dev

May 31, 1921

MF 4619		D 10			
1	B	5.1	5.2°	5.3	7.7
2	B	5.3	5.3°	5.3	7.5
3	1.9	5.5	5.5°	5.5	7.8
4	B	5.7	5.7°	5.7	8.0
5	1.9	4.7		5.9	8.1
6	2.1	6.1	6.1°	6.1	8.0
7	2.5	6.3	6.3°	6.3	8.3
8	2.5	6.5	6.5°	6.5	8.3
9	3.0	6.8	6.8°	6.9	8.9?
10	2.0	6.1	6.1°	6.1	8.1
11	3.1	7.2	7.1°	7.1	Closer to br. st.
12	3.3	7.3	7.3°	7.3	9.0
13	2.8	7.1	7.1°	7.3	9.0
14	3.2	7.5	7.6°	7.7	Supr
15	5.3	9.1	9.2°	9.3	
16	3.9	8.7	8.7°	8.7	
17	5.5	8.9	8.9°	9.0	
18	4.2	8.5	8.4°	8.4°	Supr
19	5.1	9.0	9.1°	9.2	
20	6.1	7.5			
21	6.5				
22	6.0				
23	6.1				
24	6.1				
25	6.7				
26	6.5				
27	6.7				
28	7.1				

M F Series

Sc V

May 31, 1921

M F 4619 cont

29	7.5
30	7.5
31	7.9
32	8.3
33	8.7
34	9.0
35	9.2
36	9.5
37	9.8

M7 Series

Dev

May 31, 1921

M7 46 20		J of Sagitt		(Seq marked from Chart)	
a ^{5.1}	5.2	9.2	h	PC	7.0
a ^{2.4}		9.3	9.20	6.5	9.8?
b	5.2			9.1	
c	5.3	9.5	9.40	9.3	
d	6.1 5.9				
e	5.7				
f	6.5				
g	7.1				
h	6.9				
k	7.60				
k	7.5 7.7				
l	8.2				
m	8.3				
n	8.5				

Diff images from double

MF Series

Scv

May 31, 1921

MF 4621		B10				PC
Scv	Sc2					
1 B				4.8 4.75	4.7	7.2
2 B				5.3 5.30	5.3	7.7
3 B				5.1	4.7	7.5
4 B				5.7 5.70	5.7	8.0
6 2.1				6.8 6.67	6.5 6.7	9.1
7 B				6.5 6.50	6.5	8.8
8 3.0				7.1 7.10	7.1	9.3
9 3.3				7.7 7.70	7.7	9.8
10 3.5				8.1 8.10	8.1	
11 4.8				8.9 8.90	8.9	
12 4.7 4.85	4.9			9.3 9.30	9.3	
	5.3			9.7 9.75	9.8	
13	5.7					
15	6.0					
16	6.7					
17	7.0					
18	7.7					
19	8.20	8.1 8.3				
20	8.5					
21	9.0					
22	9.3					
24	9.8					

Diff images poor along

11:40

11-10

Sev

MF Series (2^d half)

June 1, 1921

MF 4669 E-7

	Sev 1	Sev 2	g	h	pc
1	B		5.0 ⁴⁹⁵	4.9	7.1
2	B		5.7 5.7 ⁰	5.7	7.6 ⁰
3	B		5.5 5.5 ⁰	5.5	7.5 7.7
4	B		5.9 5.9 ⁵	6.0	7.6 ⁰
5	tlv		6.3 6.3 ⁰	6.3	7.7 7.5
6	B		6.5 6.5 ⁰	6.5	7.7
7	B		6.5 6.5 ⁰	6.5	8.1
8	2.4		6.7 6.7 ⁰	6.7	8.5
9	2.0		6.5 6.6 ⁰	6.7	8.5
10	2.9		7.1 7.1 ⁵	7.2	9.1?
11	2.6		sup	7.1	9.0
12	2.4		7.3 7.3 ⁰	7.1	8.9 ⁰
13	2.6		7.5 7.5 ⁰	7.5	8.8 9.0
14	3.4	3.2 3.30	7.7 7.8 ⁰	7.9	9.5
15	3.3	defective	7.7 7.7 ⁰	7.7	
16	3.2		7.7 7.7 ⁰	7.7	
17	3.8	3.6 3.70	7.8 7.8 ⁵	7.9	
18	4.0	3.9 4.05	8.0 8.0 ⁵	8.1	
19		4.1	8.1 8.2 ⁰	8.3	
20		4.3	8.5 8.6 ⁰	8.7	30 7.1
21		4.5	8.8 8.8 ⁵	8.9	31 7.5
22		5.3	9.1 9.3 ⁰	9.1	32 7.5
23		5.5	9.3 9.3 ⁰	9.3	33 7.8
24		5.7	9.3 9.3 ⁰	9.3	34 8.1
25		6.1	9.7 9.7 ⁰	9.7	35 8.6 ⁰
26		6.5			36 8.7 8.5
27		6.7			8.9 ⁵
28		6.7			36 9.0 8.9
29		6.8			37 9.3
					38 9.5
					39 9.8

M7 Series

Dev

June 1, 1921

M7 4670

W. Anae

18 0 - 48

3.15 3.0 3.6 3.5 5.2 5.1 5.25 5.3 5.5 5.3 6.0 6.4 6.7 7.0 7.5 7.5 7.9 8.60 8.5 8.7 9.1

7.0 7.05 7.1 7.5 7.40 7.3 9.1 9.10 9.1 9.3 9.40 9.5 9.8 9.80 9.8

pc

9.1

9.5

Seq. not in center of plate.

192

M7 Series

ScV

June 1, 1921

M7 4675		B10				
Sc1	Sc2			g	h	pc
1 B				4.9 ^{4.90}	4.9	7.1
2 B				5.5 ^{5.7}	5.5 ^{5.7}	7.9
3 B				5.5	5.60	7.7
4 B				4.9	5.7	7.7
6 ^{3.0} 2.6 2.80				6.3	6.20	8.1
7 ^{2.4} 2.3				7.1	7.10	9.0
8 ^{3.6} 3.5				6.8	6.85	8.8
9 ^{4.2} 4.1 4.15	4.1			7.3	7.40	9.3
10	4.5			7.9	7.95	9.7
11	5.3			Too near to st.		8.3
12	5.7			8.7	8.70	8.7
13	6.0			tp		9.3
15	6.4			9.8	9.75	9.7
16	7.1					
17	7.5					
18	8.0					
19	8.3					
20	8.5					
21	9.0					
22	9.3					
24	9.7					

12.50

12 -

June 2, 1921

Set

In Magnitudes of Stars near α Tauri, derived by Dr. van Maanen.

MC 14332	R. G. Tauri	Diff	PC	Diff
⁵¹ 2 ²⁶ 2.5	⁶⁵⁰ 6.5	2.81	8.1	1.21
³¹ h 3.0	⁷³⁷ 7.3	2.39	9.0	0.76
³² k 3.1	⁷⁵⁰ 7.5	2.54	9.5	0.64
³⁴ l 3.3	⁷⁷⁵ 7.7	2.61	9.8	0.56
defective m ³⁶ 3.5	⁸⁰⁰ 8.0	2.58		
n ⁴⁰ 3.9 405	⁸⁷⁰ 8.7	2.25		
o	⁹⁰⁵ 9.0	2.21		
p	⁹⁴⁰ 9.3	2.21		
q				
r				
s				
SB B				
R ³⁴ 3.3				

Set	Cu.	Magn
May Tauri 1	7.3 6.05	13.35
2	8.1 5.83	13.93
3	7.9 5.88	13.78
4	7.3 6.05	13.35
5	8.7 .	.
6	8.3 5.76	14.06
7 ²⁵ 2.4		
8	6.7 6.24	12.94
9	8.1 5.83	13.93
10	8.2 5.79	13.99
11	5.1 6.59	11.69
12	6.9 6.19	13.09
13	8.1 5.83	13.93
14	7.1 6.12	13.22

6.9 7.00 7.19 2.61 9.1 8.9 0.81 9.71

June 2, 1921

Scv

Segment & Time	MC 13819 S ₂₁	Rg Tauri S ₂₂	Cu	Magn	g	h	pc
1			7.9	5.52	13.42	X	
2			8.7	5.33	14.03		
3			8.8	5.30	14.10		
4			7.8	5.54	13.34		
5			9.3	5.15	14.45		
6			ns				
7	3.1 3.0		6.22	9.22	7.5	7.50	7.5 1.97 9.47 9.3 0.21 9.51
8			7.3	5.63	12.93		
9			9.0	5.23	14.23		
10			8.9	5.26	14.16		
11			5.7	5.90	- 11.60		
12			7.5	5.61	13.11		
13			8.9	5.26	14.16		
14			7.7	5.56	13.26		

Rg Tauri

	Diff		Diff
g 3.1 3.0	6.21	7.1 7.20	7.3 2.11 9.0 0.31
h 3.6 3.5	6.16	8.1 8.05	8.0 1.71 9.7 0.06
k 3.7 3.8 2.90	3.9 6.14	8.1 8.10	8.1 1.94 ns
l	4.2 6.16	8.5 8.50	8.5 1.86
m	4.5 6.08	8.8 8.80	8.8 1.78
n	4.9 6.05	9.1 9.15	9.2 1.80
o	5.5 5.76	9.7 9.70	9.7 1.56
p	5.7 5.56		
q	6.7 5.60		
r	7.4 5.52		
s	7.3 5.1		
3.8 13	7.8	4.1 4.05	4.0 5.7
Rg	5.0	9.0 9.05	9.1 1.10

12-30

June 3, 1921

Dev

Stars near α Tauri, secured by Dr. van Maanen

	mc 13819	R 2 Tauri		pc
m	5.1	5.5	5.85	
n	5.1	5.5	5.85	
o	5.1	5.5	5.85	
p	5.1	5.5	5.85	
q	5.1	5.5	5.85	
r	5.1	5.5	5.85	
s	5.1	5.5	5.85	
t	5.1	5.5	5.85	
u	5.1	5.5	5.85	
w	5.1	5.5	5.85	

Sent to Dr. van Maanen
with paper print. July 1921.
For Dr. van Maanen

Near α Tauri

		(1)	p.194 (2)	(5)	(6)	p.193 mc (3)	(7)	(8)	p.194 mc (4)	Mean
	On	magn		diff	p.c.	14332			14332	
1	7.8 5.54	13.34	13.42	-	-	13.35			13.35	13.36 02 06 01 01
2	8.8 5.30	14.10	14.03	-	-	13.93			13.93	14.00 10 03 07 07
3	9.0 5.24	14.24	14.10	-	-	13.78			13.84	13.99 25 11 21 15
4	7.7 5.57	13.27	13.34	-	-	13.35			13.29	13.31 04 03 04 02
5	9.5	-	14.45	-	-	-			14.21 13.99	14.33 12 12
6	3.2 7.5	-	n.s.	-	-	14.06			13.99 14.15	14.04 04 02
7	3.1 6.87	10.07	9.22	9.47	9.51	-	9.71, 9.71	9.24	-	9.60 RRRR
8	7.3 5.63	12.93	12.93	12	-	12.94			12.94	12.94 01 01 01 01
9	9.1 5.20	14.30	14.23	-	-	13.93			14.06	14.13 17 10 20 07
10	9.0 5.24	14.24	14.16	-	-	13.99			13.93	14.08 16 08 09 05
11	5.7 5.88	11.58	11.60	-	-	11.69			11.76	11.66 08 06 03 10
12	7.5 5.68	13.11	13.11	-	-	13.09			13.14	13.11 00 00 02 03
13	9.0 5.24	14.24	14.16	-	-	13.93			14.06	14.10 14 06 17 04
14	7.5 5.54	13.34	13.26	-	-	13.22			13.09	13.23 11 03 01 14

no. 7. Mean (9.60) depends on p.c. and diff. only. Region near
edge of plate. Primary image has large con. fr. distance. No. 6 Mean 14.15
calculated from 3, 13, 10, 9

196

June 3, 1921

Dev

Stars near α Tauri, derived by Dr. Van Maanenmc 14332 ^{50 2} R G TauriNear α Tauri

	Cu	Mag	Spid p. 195
1	7.3 6.05	13.35	
2	8.1 5.83	13.93	
3	8.0 5.84	13.84	
4	7.2 6.09	13.29	
5	8.5 5.71	14.21	
6	8.2 5.79	13.99	
7 ^{2.6} 2.5	6.64	9.24	
8	6.7 6.24	12.94	
9	8.3 5.76	14.06	
10	8.1 5.83	13.93	
11	5.2 6.56	11.76	
12	7.0 6.14	13.14	
13	8.3 5.76	14.06	
14	6.9 6.19	13.09	

R G

m ^{2.8} 3.7 3.85	3.9	6.73
n	4.3	6.65
o	4.7	6.56
p	4.9	6.71
q	5.8	6.50
r ^{6.60} 6.5 6.7	6.32	
s	6.9	6.01
t	no	.
u	defective.	.
w	8.3	5.89

1.15

198

October 3, 1921

De W

Mc 17875		Ode - Yellow 4 Exposures	
Ex 1	5 B		
	6 B	4.9	
	7 B		
	8 2.0 2.8		
W.S	9 4.1 4.3		
	10 4.8	5.2	
	11	6.0	
	12	6.5	
	13	6.9	
	14	7.2	
	15	7.5	
	16	8.0	
	17	8.3	
	18	8.9	
	19	9.1	
	20	9.5	
	21	9.7	
	22	9.8	
	23	10.5	
	24 B		
	30 1.8 2.0		
	40 3.1		
	50 4.1	4.3	
	60	5.3	
	70 W.S	6.5	
	80	7.2	
	90	7.8	
	100	9.1	

October 3, 1921

S.W.

MC 17875 cont

22 B	
42	6.2
62	7.5
87 12 2.8	2.8
15 3.0	
88 2 3.1	
80	5.1 4.9
86	5.0 4.8
90	5.2 5.0
105	W.S. 3.8 3.3
115	5.2

12/10

200

12.55

October 3, 1921

ScW

mc 17875		Pole
2.2 Ex	5	3.9
	6	5.0
	7	6.0
	8	6.5
	9	7.5 7.7
	10	7.9
	11	8.5
	12	8.7
	13	9.0
	14	9.3
	15	9.7 9.5
	16	9.8
	2v	3.9 3.7
	3v	5.7
	4v	6.9 6.7
	5v	ww 8.0
	6v	7.9
	7v	8.5
	8v	8.9
	9v	9.3
	2a 1.9	
	4a	8.5 8.7
	6a	9.5?
	87 12	6.4
	88 15	6.6
	88 2	6.5
	80	7.9
	86	7.7
	88	7.8
	90	6.9
	105	7.9
	115	

1.120

10-10

October 4, 1921

Se W

	me 17875	Pole
3d Ex.	Sc1	Sc2
5	4.0	
6	5.0	
7	5.9	
8	6.5	
9	7.5	
10	7.8	
11	8.3	
12	8.6	
13	9.0	
14	9.3	
15	9.7	
16	7	
2n	3.7	
3n	5.5	
4n	6.7	
5n	7.0	
6n	7.9	
7n	8.3	
8n	8.9	
9n	9.5	
20 20		
4n	8.5	
6n	9.3	
87 12	6.3	
15	6.5	
88° 2	6.5	
80	8.0	
86	7.7	
90	7.9	
105	6.9	
115	7.7	

October 4, 1921

Se W

4th ex

me 17875 Pole

5 ^{Sc 1} B

6 B

7 1.8

8 3.8 3.7

9 5.1

10 5.3

11 6.0 6.1

12 6.5

13 7.0

14 7.3

15 7.7

16 8.0

17 8.3

18 8.8

19 9.0

20 9.3

21 9.5

22 9.8

23 n.s.

2 n B

3 n 1.9

4 n 3.8

5 n 4.4

6 n 5.5

7 n 6.5

8 n 7.3

9 n 7.7

10 n 8.9

October 4, 1921

Se W

MC 17875 cont-
 2A B
 4A 6.5
 6A 7.6
 87° 12 2.9
 15 2.9
 88° 2 3.2
 80 5.1
 86 4.9
 90 5.3
 105 3.9
 115 5.2

11-

12-30

Se W

October 4, 1921

MC 17876 Bde - 4 exposures - <u>Yellow</u>		
Exp 1 —	Sc 1	Sc 3
5	3.0	
6	4.2	4.8
7		5.5
8		6.2
9		7.1
10		7.5
11		8.1
12		8.5
13		8.8
14		9.1
15		9.5
16		9.8
2n	3.0	
3n	4.2	5.0
4n		6.5
5n		6.9
6n		7.7
7n		8.5
8n		9.0
9n		9.5
2A	2.9 ³⁰	
4A		8.7
6A		9.7
87	12	5.9 6.0
15		6.2
88	2	6.3
80		7.9 7.7
86		def?
90		7.9
105		6.6
115		7.9

+1.15

October 4, 1921

Se W

mc 17876 (cont)		
	Sc1	Sc2
Exp 2 5	6.3	
6	7.1	
7	7.8	
8	8.5	
9	9.2	
10	9.3	
11	9.8	
12	7	
2n	6.1	
3n	7.7	
4n	8.7	
5n	Sup?	
6n	9.7	
2n	6.3 6.1	
4n	9.8?	
87° 12	8.3 8.1	
15	8.5	
88° 2	8.3	
80	9.7	
86	9.5	
90	9.7	
105	8.8	
115	9.7	

1.05

10:30

Sc W

Oct 5, 1921

Exp 3

MC 17876 (cont)

5	6.1
6	7.1
7	7.7
8	8.5
9	9.1
10	9.3
11	9.8
2m	6.1
3m	7.5
4m	8.7
5m	9.0
6m	9.7
2n	6.2
4b	7
87° 12	8.0
15	8.5
88° 2	8.2
80	9.7
86	9.5 9.3
90	9.5
105	8.7
115	9.5

October 5, 1921

SeW

MC 17876 (cont)

4th Ex.	Set	Set
5	3.0	
6	4.1	4.8
7		5.3
8		6.2
9		7.3
10		7.5
mean ser.	11	8.1
	12	8.5
" "	13	8.9
	14	9.1
	15	9.5?
	16	9.8?
2nd	2.9	
3rd	4.3	5.0
4th		6.3
5th		6.8
6th		7.5
mean ser.	7th	8.3
	8th	8.9
	9th	9.5
20	3.0	
40		8.5
60		9.7?
8712		5.9
15		6.3
882		6.1
80		7.5
86		7.3
90		7.7
105		6.5
115		7.5 7.7

11:10

10-45

Sc W

October 7, 1921

1st Exp.		mc 17884 Pole - <u>Yellow</u> - 4 Exp	
5	B		
6	B		
7	2.0		
8	3.0		
9	4.3	4.9	
10		5.3	
11		6.3	6.1
12		6.5	
13		7.0	
14		7.3	
15		7.7	
16		8.2	
17		8.5	
18		8.8	
19		9.1	
20		9.5	
21		9.8	
22	B		
32	2.1		
42	3.3	4.0	
52		4.7	
62		5.5	
72		6.5	
82		7.3	
92		7.9	
102		9.1	
112		9.7	9.5
122		9.8?	

October 7, 1921

ScW

MC 17884 cont		
20	^{8.1} 13	8.2
40		6.5
60		7.7
87° 12	2.9	
15	3.0	
88° 2	3.3	
80		5.3
86		5.0
90		5.2
105	3.3	5.2
115	4.7	5.3

October 7, 1921

De W

2nd Exp		mc 17884
		Sc 1 Sc 2
5	3.0	4.5
6	4.1	4.9
7		5.7
8		6.5
9		7.5
10		7.8
11		8.5
12		8.8
13		9.2
14		9.5
15		9.8
2n	3.1	
3n	5.0	5.7
4n		6.5
5n		7.3
6n		8.0
7n		8.7
8n		9.2
9n		9.8
2a	2.9	
4a		8.9
6a		9.8
87 12		6.1
15		6.4
88 2		6.5
80		7.9
86		7.7
90		7.7
105		6.7
115		7.7

October 7, 1921

Sc W

mc 1788.4 (cont)	
3rd Exp	Sec 1
5	3.1
6	3.8
7	4.9
8	5.8
9	6.5
10	7.7
11	7.9
12	8.5 8.3
13	8.7
14	9.1
15	9.3
2n 3.2	9.8
3n	3.9
4n	5.7
5n	6.7
6n	7.3
7n	7.9
8n	8.7
9n	9.1
2n 3.0	9.7
4n	
6n	8.8
8n	9.8
87/2	6.0
15	6.5
88 2	6.5
80	7.9
86	7.7
x 90	7.9
105	6.5
115	7.7

October 7, 1921

De W

MC 17884 (cont)

4 $\frac{1}{2}$ hr

5	Se' 13	
6	13	
7	20	
8	3.1	3.9
9		5.0
10		5.3
11		6.3
12		6.5 6.7
13		7.1
14		7.5
15		7.7
16		8.1
17		8.5
18		9.0
19		9.2
20		9.5
21		9.7

2 hr. B

3 hr 20

4 hr 32

5 hr

6 hr

7 hr

8 hr

9 hr

10 hr

11 hr

12 hr

3.9

4.6

5.5

6.5

7.5

8.6

9.3 9.1

9.7

9.8

October 7, 1921

S.W.

YMC 17884 (cont)

22 B

42 6.5

62 7.7

87 12 2.9

15 3.0

88 2 3.3 4.0

80 5.2

86 5.0

90 5.3

105 4.1

115 w.s. 4.2

12:20

12105

Sc V

Mc Series 591

October 25, 1921

Mc 9863			Bole			
	Sc 1	Sc 2				PC
5	13			3.8	3.7	4.3
6	13			4.5	4.3	5.0
8	2.0			6.0	5.9	6.3
9	2.5			6.5	6.5	6.9
10	2.7			6.9	6.8	7.2
11	3.1			7.5	7.5	7.8
12	3.4			7.8	7.9	8.3
13	3.9	4.0		8.3	8.5	8.7
14		4.3 4.5		8.7	8.9	9.0
15		5.1		9.3	9.3	Sup
16		5.5		9.7	9.7	n.s.
17		5.7				
18		6.3 6.5				
19		6.7				
20		7.0				
21		7.3				
22		7.5				
23		7.8				
24		8.0				
25		8.5				
26		8.9				
27		9.3				
28		9.8				

MC Series 591

October 25, 1921

Dev

MC 9864		NYC 7654	23	20 + 60	PC
Sec 1	Sec 2				
1 2.3			7.0	7.0	7.3
2 3.3			7.9	8.0	8.0
3 3.7 3.5			7.9	8.1	8.3
4 4.0	4.1		8.5	8.7	8.9
5	4.8		9.0	9.0	9.5
6	5.2		9.5	9.5	7
7	5.5		9.7	9.7	
8	5.9				
9	6.1				
10	6.7 6.9				
11	6.9 7.1				
12	8.0				
13	8.5				
14	9.0 9.2				

MC Series 591

Dev

October 25, 1921

MC 9865		D1		Pc	
Sc1	Sc2	g	h		
1	1.9	4.7	4.7	5.5	
2	2.0	5.1	5.1	5.7	
3	2.1	5.8	5.8	6.3	
4	2.1	6.1	6.1	6.5	
5	2.2	6.0	5.9	6.7	6.5
6	2.5	6.5	6.5	6.9	
7	2.5	Scr.	6.3	6.8	
8	2.9	6.7	6.7	7.0	
9	2.8	Scr.	6.9	7.0	7.2
10	2.8	7.1	7.1	7.5	
11	3.2	7.5	7.7	8.0	
12	3.5	8.0	7.9	8.3	
13	3.5	8.1	8.1	8.5	
14	3.7	8.3	8.3	8.7	
15	3.9	8.5	8.3	8.8	
16	4.2	8.9	8.9	9.1	
17	4.9	9.5	9.7	9	
18	5.3	9.8	9.8		
19	5.2				
20	5.5				
21	5.9	29	7.9		
22	6.3	30	8.1		
23	6.5	31	8.5		
24	6.9	32	8.7		
25	7.0	33	9.0		
26	7.1	34	8.9		
27	7.3	35	9.3		
28	7.7	36	9.5		
		37	9.8		

MC Series 591

October 25, 1921

Set

	MC 9866	BL 256	1	15 + 57.5	PC
	Sc1	Sc2			
1	13		5.7	5.7	5.5
2	3.0		7.7	7.7	7.5 7.7
3	3.2		8.0	8.0	8.0
4	4.0	4.1	8.5	8.7	8.7
5		4.3	8.9	8.9	9.0
6		4.8	9.5	9.7	9.7
7		4.9	9.7	9.7	9.8
8		5.3			
9		5.5			
10		5.8			
11		6.1			
12		6.3			
13		6.5			
14		6.7			
15		7.0			
16		7.5			
17		8.1			
17	w.s	8.3			
18		8.3			
18	w.s	8.7	8.5		
19		9.0			
PC of No 6? 20?		9.7?			

MC Series 591

October 25, 1921

ScV

	MC 9867	MC 663		PC
	Sc1	Sc2	L	
1	13		5.9	6.0
2	2.1		6.7	6.7
3	2.5		7.1	7.0
4	3.1		7.9	7.9
4a	3.4		8.3	8.5
5	3.9	4.0	8.5-8.7	8.9
6		4.3	8.9	9.1
7		4.5 4.7	9.3	9.3
8		5.0	9.7	9.8
9		5.2 5.3		
10		5.7		
11		6.0		
12		6.5		
13		6.9		
14		7.1		
15		7.3		
16		7.7		
17		8.0		
18		8.5 8.7		
19		9.0		
20		9.7		

MC Series 591

October

ScV

MC 9868

Pole

	Sc 1	Sc 2		h	PC
5	13		3.5	3.5	4.3
6	13		4.1	4.1	4.9
8	2.0	1.9	5.9	5.9	6.1
9	2.5		6.5	6.5	6.7
10	2.7		6.9	6.8	7.1
11	3.0		7.7	7.7	7.9
12	3.4		8.0	8.1	8.3
13	3.9	4.0	8.3	8.5	8.7
14		4.3	8.9	9.0	9.1
15		4.7 4.9	9.5	9.7	Sup?
16		5.3	9.8	9.8	9.8?
17		5.7			
18		6.3			
19		6.8			
20		7.1			
21		7.5			
22		7.7			
23		8.0			
24		8.2			
25		8.5			
26		9.0			
27		9.3			
28		9.8			

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