KG
11365
693

1918phae.proj..694A

Map of the Sky - 2
Direct Estimates + Scale measures

Bk 2. M.D. Applegate

A. Bk. 2.

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KG 11365.693

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From p. 177 on the following abbreviations used:-

? Doubtful Observation

d discordant observation rejected on later examination and replaced by magnitude given.

e edge of plate

f image extremely faint, near limit of visibility.

i trails or elongated images.

p poor plate

q poor image.

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Vol. 3

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although the measures in this book were recorded in order, the stars were measured in as irregular an order possible.

M. D. A. Dec. 14, 1918.

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Harvard Map. 2

Plates Ac 3204 & 14621 have all variables estimated at position $0^h+60°$ ~~in this book~~ marked. M.D.A.

For plate containing sequences of variables of $0^h+60°$ see Ac 14483.

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Wednesday Dec. 11, 1918

Scale R.

MC 4356 — Ursae Maj. sequence — P.C.

		Sc. 1	Sc. 2.	Sc.
2:30	a	3.8		
	c	4.8		
	d	6.2		
	f	6.0		
	g	7.1		
	b	7.2		
	k	7.4		
	e	7.6		
	h	7.8		
	l	8.0	8.3	
	m	8.2		
	n	9.5	9.9	
	o	10.0 ~~11.7~~	10.6	
	p	10.4		
	q	10.8		
	r	10.5		
	s		13.2	
	t		13.8	
	u		14.0	
	v		N.S.	
	w		N.S.	

2:30 — Too dark to finish

1918phae.proj..694A

6

Thursday Dec. 12, 1918

Scale R.

MC 4356 — Sequence for U Sagittae

	9:05	Sc. 1	Sc. 2		Diff.	Sc. 1	P.C. Sc. 2	Diff.
		~~3.8~~				10.0		
a		3.5			3.95	9.7	10.0 ~~7.85~~ 7.75	-2.25
c		~~4.5~~ 5.1						
		4.8			3.28		10.9	-2.52
d		~~5.4~~ 6.0						
		6.7			3.26		11.8	-2.54
f		~~5.6~~ 6.2						
		5.9			3.23		12.1	-2.67
g		~~6.4~~ 7.5						
		7.2			2.59		13.0	-2.91
b		~~6.9~~ 7.5						
		7.2			2.60		13.2	-3.10
k		7.7						
		7.4			2.44		13.5	-3.36
e		~~7.2~~ 7.8						
		7.5			2.39		13.6	-3.41
h		~~7.8~~ 8.4						
		8.1	8.4	8.40	2.08		13.8	-3.32
l		8.7						
		8.4	8.7	8.70	2.00		13.9	-3.20
m		9.1						
		8.8	9.1	9.10	1.87			
n		9.6						
		9.3	9.7	9.65 (05, 05)	1.87			
o		10.1						
		9.8	10.3	10.20 (10, 10)	2.02			
p		~~10.5~~	11.3		1.76			
q		~~10.7~~	12.0		1.54			
r			12.6		1.62			
s			12.9		1.63			
t			13.7		1.08			
u			14.8		1.13			
v			N.S.					
w			N.S.					

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1918phae.proj..694A

Thursday Dec. 12, 1918

Beale R.

MC 4356 Sequence for Z Lacertae (also RR Lacertae).

P.C.

		Sc. 1	Sc. 2	Curv.	Mag.	Sc. 1	Sc. 2	Curv.	Mag.
		3.2				9.0			
e.	a	2.9				8.7	9.0	9.00 ~~8.86~~	
	a'	3.4				8.5			
		3.1				.2	8.6	8.85	
		5.5							
e. elong.	b	5.2				~~0~~	11.2	-2.~~64~~ 47	8.73
	b'	3.1				8.7			
		2.8				.4	8.7	8.70	
		4.9				0.2			
e. elong	c	4.6				9			
		3.7				-X	10.4	10.30	-2.~~66~~ 34	7.96
	c'	3.4				0.0			
		6.3				.7	10.1	10.05	-2.~~68~~ 32	7.73
e. elong	d	6.0					11.8		-2.~~41~~ 57	9.21
		5.6				0.4			
	e	5.3				0.1	10.6	10.50	-2.37	8.13
		5.9							
	e'	5.6				~~0~~	11.0		-2.44	8.56
		6.3								
	f	6.0					11.9		-2.62	9.28
		7.0								
	f'	6.7					12.4		-2.76	9.64
		7.4								
	g	7.1					13.0		-2.98	10.02
	h	7.5					13.6		-3.23	10.37
		7.2								
		7.7								
	k	7.4								
		8.6								
	l	8.3								
		9.1								
	m	8.8								
		9.5								
	n	9.2								
		10.0								
	o	9.7								

0+60°

Look up plate for U Lacertae

J.D. - 16900 - 17000 Feb 2,05 / June 30,05

arc
7646
9060
9065
10859
10874
14702
14745
18548

10:05

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Thursday Dec. 12, 1918

Beale R.

MC 4356 Sequence for Z Lacertae (also RR Lacertae).

R.C.

		Sc. 1	Sc. 2	Curv.	Mag.
		3.2			
e.	a	2.9			
	a'	3.4			
		3.1			
		6.6			
e. along	b	5.2			
	b'	3.1			
		2.8			
		4.9			
e. along	c	4.6			
	c'	3.7			
		3.4			
		6.3			
e. along	d	6.0			
	e	5.6			
		5.3			
	e'	5.9			
		5.6			
	f	6.3			
		6.0			
	f'	7.0			
		6.7			
	g	7.4			
		7.1			
	h	7.5			
		7.2			
	k	7.7			
		7.4			
	l	8.6			
		8.3			
	m	9.1			
		8.8			
	n	9.5			
		9.2			
	o	10.0			
		9.7			

JZ Cass.
RC 4355
5386
5780
5789

10:05

Sc. 1	Sc. 2	Curv.	Mag.
9.0			
8.7	9.0	9.00 ~~8.86~~	
8.5			
8.2	8.6	8.55	
~~10~~	11.2	-2.~~64~~ 47	8.73
8.7			
8.4	8.7	8.70	
10.2			
9.~~8~~ 9	10.4	10.30 -2.~~66~~ 34	7.96
10.0			
9.7	10.1	10.05 -2.~~68~~ 32	7.73
~~48~~	11.8	-2.~~41~~ 59	9.21
10.4			
10.1	10.6	10.50 -2.37	8.13
~~10~~	11.0	-2.44	8.56
	11.9	-2.62	9.28
	12.4	-2.76	9.64
	13.0	-2.98	10.02
	13.6	-3.23	10.37

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Thursday Dec. 12, 1918.

Beale R.

MC 4356 Sequence for Z Lacertae (also RR Lacertae).

P.C.

		Sc. 1	Sc. 2	Curv.	Mag.
		3.2			
e.	a	2.9			
	a'	3.4			
		3.1			
e. along	b	5.6			
		5.2			
	b'	3.1			
		2.8			
		4.9			
e. along	c	4.6			
	c'	3.7			
		3.4			
e. along	d	6.3			
		6.0			
	e	5.6			
		5.3			
	e'	5.9			
		5.6			
	f	6.3			
		6.0			
	f'	7.0			
		6.7			
	g	7.4			
		7.1			
	h	7.5			
		7.2			
	k	7.7			
		7.4			
	l	8.6			
		8.3			
	m	9.1			
		8.8			
	n	9.5			
		9.2			
	o	10.0			
		9.7			

10:05

The same sequence in this was selected on MC 11744 in existence. The stars in c

Sc. 1	Sc. 2	Curv.	Mag.
9.0			
8.7	9.0	9.00 ~~8.86~~	
8.5			
8.2	8.6	8.55	
11.2		-2.~~64~~ 47	8.73
8.7	8.7	8.70	
10.4	10.30	-2.~~66~~ 34	7.96
10.1	10.05	-2.~~68~~ 32	7.73
11.8		-2.~~41~~ 59	9.21
10.6	10.50	-2.37	8.13
11.0		-2.44	8.56
11.9		-2.62	9.28
12.4		-2.76	9.64
13.0		-2.98	10.02
13.6		-3.23	10.37

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Thursday Dec. 12, 1918.

Scale R.

MC 4352 Sequence for Z Lacertae (also RR Lacertae).

P.C.

		Sc. 1	Sc. 2		Curv.	Mag.	Sc. 1	Sc. 2	Curv.	Mag.
	a	3.2 / 2.9					9.0 / 8.7	9.0	~~9.00~~ ~~8.86~~	
	a'	3.4 / 3.1					8.5 / 8.2	8.6	8.55	
R. along	b	5.6 / 5.2			3.30	8.80	~~11.0~~	11.2	-2.~~64~~ 47	8.73
	b'	3.1 / 2.8					8.7 / 8.4	8.7	8.70	
R. along	c	4.9 / 4.6			3.49	8.39	10.2 / 9.~~8~~ 9	10.4	10.30 -2.~~66~~ 34	7.96
	c'	3.7 / 3.4			3.87	7.57	10.0 / 9.7	10.1	10.05 -2.~~68~~ 32	7.73
R. along	d	6.3 / 6.0			3.03	9.33	~~11.8~~	11.8	-2.~~41~~ 59	9.21
	e	5.6 / 5.3			3.27	8.87	10.4 / 10.1	10.6	10.50 -2.37	8.13
	e'	5.9 / 5.6			3.16	9.06	~~11.0~~	11.0	-2.44	8.56
	f	6.3 / 6.0			3.03	9.33		11.9	-2.62	9.28
	f'	7.0 / 6.7			2.75	9.75		12.4	-2.76	9.64
	g	7.4 / 7.1			2.57	9.97		13.0	-2.98	10.02
	h	7.5 / 7.2			2.52	10.02		13.6	-3.23	10.37
	k	7.7 / 7.4			2.44	10.14				
	l	8.6 / 8.3	8.7	8.65 05,05	2.10	10.75				
	m	9.1 / 8.8	9.1	9.10	2.00	11.10				
	n	9.5 / 9.2	9.6	9.55 05,05	1.90	11.45				
	o	10.0 / 9.7	10.2	10.10 10,10	1.80	11.90				

10:05

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Thursday Dec. 12, 1918

Scale K

AC 16600 Sequence for Z Sagittae (BR)

	10:15	Sc. A	Sc. B	Sc C.		Curve	Mag.	Curve	Mag.
		4.7	4.7						
a		4.9	5.1	4.7	4.70			2:30	7.00
a'		3.6	3.9						
		3.8	4.3		3.75			2.75	6.50
b			6.8						
			7.2	6.7	6.75	1.99	8.74	1.94	8.69
b'		4.1	4.4						
		4.3	4.8		4.25	~~2.02~~		2.52	6.77
c			6.0						
			6.4	6.1	6.05	2.02	8.07	1.97	8.02
c'			5.7						
			6.1	5.7	5.70	2.03	7.73	2.00	7.70
d			7.2						
			7.6	7.2	7.20	1.96	9.16	1.93	9.13
e			6.4						
			6.8	6.3	6.35	2.00	8.35	1.96	8.30
é			6.6 7.0						
			~~6.8~~	6.4	6.50	2.00	8.50	1.94	8.44
f			7.1						
			7.5	7.1	7.10	1.97	9.07	1.93	9.03
f'			7.5						
			7.9	7.4	7.45	1.96	9.40	1.90	9.35
g			8.0						
			8.4	8.0	8.00	1.82	9.82	1.87	9.87
h			8.2						
			8.6	8.2	8.20	1.77	9.97	1.84	10.04
k			8.6						
			9.0	8.6	8.60	1.64	10.24	1.62	10.22
l				9.3		1.39	10.69	1.42	10.72
m				9.8		1.22	11.02	1.26	11.06
n				10.0		1.16	11.16	1.20	11.20
o				10.1		1.13	11.23	1.17	11.27

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Thursday Dec. 12, 1918

Scale N

AC 16600 Sequence for V Sagittae

	Dec. A	Dec. B	Sc C	Diff.	Curve	Mag.
		5.6				
a		6.0	5.65	2.10	2.02	7.67
		6.6				
c		7.0	6.50	1.88	2.00	8.50
		7.3				
d		7.7	7.35	1.94	1.95	9.30
		7.5				
f		7.9	7.45	1.98	1.93	9.38
		8.2				
g		8.7	8.40	1.69	1.72	10.12
		8.0				
b		8.4	8.00	2.10	1.81	9.81
		8.5				
k		8.9	8.60	1.54	1.64	10.24
		8.4				
e		8.8	8.50	1.69	1.68	10.18
		8.8 ~~8.8~~ 9.2				
h			8.80	1.68	1.57	10.37
l			9.6	1.10	1.28	10.88
m			9.8	1.17	1.22	11.02
n			10.1	1.52 (4)	1.13	11.23
o		n.o.				
p		"				
q		"				
r		"				
s		"				
t		"				
u		"				
v		"				
w		"				

11:15

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Thursday
~~Wednesday~~ Dec. 12, 1918

Scale N.

AC 20544 Sequence for V Lacertae

2:00	Sc. A	Sc. B	Sc. C	Diff.	Curve	Mag.
		5.8				
-2 a		6.2	5.8 5.80	1.95	1.82	7.72
		6.4				
c		6.8	6.4 6.40	1.98	2.02	8.42
		7.0				
d		7.4	7.0 7.00	2.26	2.20	9.20
		7.2				
f		7.6	7.2 7.20	2.23	2.20	9.40
		7.7				
g		8.1	7.9 7.80	2.29	2.18	9.98
		7.8				
h		8.2	7.9 7.85	2.25	2.17	10.02
k		7.9				
		8.3	8.0 7.95	2.19	2.17	10.12
		8.2				
		8.6	8.2 8.20	1.99	2.13	10.33
		8.4				
		8.8	8.6 8.60	1.98	2.08	10.58
		8.5				
		8.9	8.6 8.65	2.15	2.07	10.62
		9.0				
		9.2	9.0 9.00	1.97	2.01	11.01
			9.7	1.82	1.91	11.61
			10.0	2.02	1.87	11.87
p			N.S.			
q			"			
r			"			
A			"			
t			"			
u			"			
v						
w						

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1918phae.proj..694A

Thursday
~~Wednesday~~ Dec. 12, 1918

Scale 4

AC 20544 Sequence for Z Lacertae (RR)

	Sc. A.	Sc. B	Sc.	Curve.	Mag.	Curve	Mag.
	4.8	4.7					
a	5.0	5.1	4.8 4.77			2.19	6.96
	4.1	4.1					
a'	4.3	4.5	4.0 4.07			2.44	6.51
		7.0					
b	~~4.8~~	7.4	6.9 6.95	2.20	9.15	1.56	8.51
	4.6	4.6					
b'	4.8	5.0	4.6 4.60			2.26	6.86
		6.4					
c		6.8	6.3 6.35	2.07	8.42	1.68	8.03
		5.9					
c'		6.3	5.9 6.90	1.94	7.84	1.80	7.70
		7.4					
d		7.8	7.6 7.50	2.20	9.70	1.50	9.00
		6.8					
e		7.2	6.8 6.80	2.18	8.98	1.58	8.38
		7.2					
e'		7.6	7.1 7.15	2.21	9.36	1.53	8.68
		7.4					
f		7.8	7.4 7.40	2.20	9.60	1.51	8.91
		7.8					
f'		8.2	8.0 7.90	2.17	10.07	1.48	9.38
		8.2					
g		8.3	8.3 8.25	2.13	10.38	1.48	9.73
		8.3					
h		8.7	8.2 8.25	2.13	10.38	1.48	9.73
		8.6					
k		9.0 ~~8.3~~	8.7 8.65	2.06	10.71	1.48	10.13
l			9.2	1.98	11.18	1.49	10.69
m		9	9.4	1.96	11.36	1.50	10.90
n			9.8	1.90	11.70	1.52	11.32
o			10.0	1.87	11.87	1.53	11.53

3:00

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1918phae.proj..694A

Friday Dec. 13, 1918

Scale N.

AC 20471 Sequence for 2 Lacertae (also RR.)

9:05	Sc A	Sc B	Sc C		Curve.	Mag.	Curve	Mag.
		5.7						
a		6.1	5.6	5.65			1.33	6.98
		5.3						
a'		5.7	6.3	5.30			1.50	6.80
		7.7						
b		8.1	7.7	7.70	1.12	8.82	.99	8.69
		5.0					6	
b'		5.4	5.2	5.10	.94		1.60	7.70
		7.1						
c		7.5	6.9	7.00	.94	7.94	.97	7.97
		6.9 7.3						
c'		6.5	6.7	6.80	.89	7.69	.99	7.79
		8.2						
d		8.6	8.3	8.25	1.19	9.44	1.04	9.29
		7.5						
e		7.9	7.4	7.45	1.05	8.50	.97	8.42
		7.7						
e'		8.1	7.7	7.70	1.12	8.82	.99	8.69
		8.0						
f		8.2	8.2	8.10	1.17	9.27	1.03	9.13
		8.1						
f'		8.5	8.3	8.20	1.18	9.38	1.04	9.24
		8.4						
g		8.8	8.6	8.50	1.20	9.70	1.07	9.57
		8.6						
h		9.0	8.7	8.65	1.20	9.85	1.08	9.73
k			9.2		1.23	10.43	1.17	10.37
l			9.4		1.24	10.64	1.20	10.60
m			9.6		1.25	10.85	1.23	10.83
n			9.8		1.27	11.07	1.27	11.07
o			U.S.					

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1918phae.proj..694A

Friday Dec. 13, 1918

Scalek

AC 20471 — Sequence for V Lacertae

	Sc. A	Sc. B	Sc C	Diff.	Curv.	Mag.	p.14 mag	p.10 mag	p.9 Mag.	Mean	Res.
a		6.9 7 8.3 7.3	6.8	6.85	.90	.90	7.75	7.70	7.72	7.67	7.71	04, 01 01, 04
c		7.7 8.0	7.4	7.35	1.03	1.03	8.38	8.58	8.42	8.50	8.47	09, 11, 05 03
d		8.4 8.2	8.2	8.10	1.16	1.18	9.28	9.04	9.20	9.30	9.20	08, 16, 00, 10
f		8.6	8.2	8.20	1.23	1.19	9.39	9.40	9.40	9.38	9.39	00, 01, 01, 01
g			8.9		1.19	1.21	10.11	9.86	9.98	10.12	10.02	09 16, 16, 04, 10
b			9.0		1.10	1.21	10.21	9.98	10.02	9.81	10.00	21, 02, 02, 19
k			9.1		1.04	1.22	10.32	9.92	10.12	10.24	10.15	17, 23, 03, 09
e			9.8		1.39	1.21	10.01	10.52	10.33	10.18	10.26	25, 26, 07, 08
h			9.4		1.08	1.24	10.64	10.43	10.58	10.37	10.58	06, 15 00, 21
l			9.6		1.10	1.25	10.85	11.06	10.62	10.88	10.85	00, 21, 23 03
m			9.7		1.27	1.26	10.96	11.17	11.01	11.02	11.04	08, 13, 03 02
n			10.0		1.52	1.28	11.28	11.37	11.61	11.23	11.37	09, 00, 24, 14
o			10.1		1.92	1.29	11.39	·	11.87	·	11.63	24 · 24 ·
p												
q												
r												
s												
t												
u												
v												
w												

9:45

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Friday Dec. 13, 1918

Scale N.

AC 20150 — Sequence for V Lacertae

	9:55	K.A.	dc 13	dC		Diff.	Curve	Mag.
			7.07					
a			8.4	6.8	6.90	0.85	.80	7.70
			7.5					
c			7.9	7.6	7.55	0.83	1.03	8.58
			7.8					
d			8.2	8.0	7.90	1.36	1.14	9.04
			8.2					
f			8.6	8.2	8.20	1.23	1.20	9.40
			8.4					
g			8.8	8.8	8.60	1.49	1.26	9.86
			8.7					
b			9.1	8.7	8.70	1.40	1.28	9.98
			8.6					
k			9.0	8.7	8.65	1.49	1.27	9.92
e				9.2		.99	1.32	10.52
h				9.4		1.08	1.33	10.73
l				9.7		1.00	1.36	11.06
m				9.8		1.17	1.37	11.17
n				10.0		1.52	1.37	11.37
o				N.S.				
p				"				
q				"				
r				"				
s				"				
t				"				
u				"				
v				"				
w				"				

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Friday Dec. 13, 1918

Scale h

AC 20150 Sequence for Z Sagittae (RR)

	Sc. A	Sc. B	Sc.	Curve	Mag.	Curve	Mag.
		5.6					
b'		6.0	5.7 5.65			1.20	6.85
		5.5					
a'		5.9	5.6 5.55			1.22	6.77
		6.7					
a		6.1	5.8 5.75			1.15	6.90
		7.8					
b		8.2	7.7 7.75	1.10	8.85	.80	8.55
		7.2			8		
c'		7.6	7.0 7.10	.98	7.98	.80	7.90
		7.4					
c		7.8	7.4 7.40	.99	8.39	.79	8.19
		8.3					
d		8.7	8.4 8.35	1.23	9.58	.88	9.23
		7.5					
e		7.9	7.4 7.45	1.00	8.45	.79	8.24
		7.7					
e'		8.1	7.9 7.80	1.11	8.91	.80	8.60
		8.0					
f		8.4	8.1 8.05	1.17	9.22	.82	8.87
		8.2					
f'		8.6	8.3 8.25	1.21	9.46	.85	9.10
		8.6					
g		9.0	8.6 8.60	1.26	9.86	.93	9.53
h			8.9	1.30	10.20	1.00	9.90
k			9.3	1.33	10.68	1.10	9.40
l			9.5	1.34	10.84	1.17	10.67
m			9.7	1.36	11.06	1.23	10.93
n			9.9	1.37	11.27	1.28	11.18
o			10.0	1.38	11.38	1.31	11.31

10:20

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Sheet no. 432

Wednesday Dec. 18, 1918

Scale R

MC Series 166

MC 4355

Pole.

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	10:35	Sc. 1	Sc. 2	Mean.		Mean.	Diff.	P.C. Sc. 1	Sc. 2	Mean.	8.85	Mean.	Diff.
		1.6						8.5					
5		1.3			1.7	1.65	4.84	8.2	8.4	8.45	8.85	8.65	-2.16
		2.9						9.1					
6		2.6			3.1	3.00	4.11	8.8	9.2	9.15	9.65	9.40	-2.29
		4.8						10.4					
8		4.5			5.3	5.05	3.18	10.1	10.5	10.45	11.3	10.88	-2.65
		5.7											
9		5.4			6.2	5.95	2.88		11.8		12.1	11.95	-3.12
		5.9											
10		5.6			6.5	6.20	2.82		12.0		12.6	12.30	-3.28
		6.8											
11		6.5			7.4	7.10	2.45		12.7		13.2	12.95	-3.40
		7.5											
12		7.2			7.7	7.60	2.26		13.1		13.4	13.25	-3.39
		8.0											
13		7.7		8.1	8.05	8.40	8.20		13.5		13.7	13.60	-3.30
		8.5											
14		8.2		8.5	8.50	9.00	8.75	1.70	13.7		14.0	13.85	-3.20
		9.1											
15		8.8		9.2	9.15	9.60	9.37	1.71	13.9		14.1	14.00	-2.92
		9.7											
16		9.4		9.8	9.75	10.00	9.87	1.53					
		10.0											
17		9.7		10.2	10.10	10.5	10.30	1.33					
18				10.8		11.2	11.00	1.06					
19				11.3		11.5	11.40	1.02					
20				11.8		12.0	11.90	.83					
23			12.5	12.4	12.45	12.55	12.50	.84					
25			12.8	12.8	12.80	13.40	13.10	.77					
26			13.5	13.4	13.45	13.60	13.52	.81					
27			13.7	13.7	13.70	13.80	13.75	.94					
28			14.0	14.0	14.00	14.00	14.00	1.11					
29													

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Wednesday Dec. 18, 1918

Scale R

MC Lewis 166

MC 4356 ~~Left Secondaries~~ Seq. for 2 and RR Secondaries

PC

	Sc 1	Sc 2	Mean	Curve.	Mag.	Sc 1	Sc 2	Mean	Curve	Mag.	Mean	Res.
	3.6					8.6			-2.08		6.57	
a'	3.3			3.86	7.46	8.3	8.7	8.65	~~+.90~~	6.57	~~7.02~~	(.81) a
	2.7					9.0						
b'	2.4			4.28	6.98	8.7	9.0	9.00	-2.17	6.83	6.83	(.15) a
	3.1					9.4						
e. a	2.8			4.08	7.18	9.1	9.3	9.35	-2.28	7.07	7.07	(.11) a
	4.0					10.0						
c'	3.7			3.68	7.68	9.7	10.2	10.10	-2.47	7.63	7.63	(.05) a
	5.4											
e.i. c	5.1			3.07	8.47	~~10.0~~	10.7		-2.63	8.07	8.07	(.40) a
	5.7											
e	5.4			2.95	8.65		11.0		-2.72	8.28	8.28	(.37) a
	6.1											
e.i. b	5.8			2.80	8.90		11.3		-2.84	8.46	8.46	(.44) a
	6.2											
e'	5.9			2.78	8.98		11.5		-2.91	8.59	8.59	(.39) a
	6.4											
f	~~5.9~~ 6.1			2.61	9.11		12.0		-3.11	8.89	8.89	(.22) a
	6.7											
e.i. d	6.3			2.62	9.32		12.2		-3.18	9.02	9.17	.15 .15
	7.0											
f'	6.7			2.50	9.50		12.6		-3.31	9.29	9.40	.10 .11
	7.7											
g	7.4			2.25	9.95		13.0		-3.38	9.62	9.78	.17 .16
	7.8											
h	7.5			2.21	10.01		13.5		-3.34	10.16	10.08	.07 .08
	8.0											
k	7.7	8.0	8.0	8.00	2.15	10.15					10.15 a.	
	8.8											
l	8.5	8.8	8.8	8.80	1.84	10.64					10.64 a.	
	9.2											
m	8.9	9.2	9.3	9.23	1.67	10.87					10.87 a.	
	9.7											
n	9.4	9.8	9.7	9.73	1.49	11.22					11.22 a.	
	10.3											
o	10.0	10.5	10.6	10.47	1.27	11.74					11.74 a.	

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Wednesday Dec. 18, 1918

Scale R

MC Series 166

MC 4360 Pole

	Sc. 1	Sc. 2	Mean	R.C. Sc. 1	R.C. Sc. 2	R.C. Mean
5	1.7 1.4			8.9 8.6	8.8	8.85
6	3.1 2.8			9.6 9.3	9.7	9.65
8	5.3 5.0				11.3	
9	6.2 5.9				12.1	
10	6.5 6.2				12.6	
11	7.4 7.1				13.2	
12	7.7 8.4				13.4	
13	8.4 8.1		8.4		13.7	8.40
14	9.0 8.7		9.0		14.0	9.00
15	9.6 9.3		9.6		14.1	9.60
16	10.0 9.7		10.0			10.00
17			10.5			
18	~~11.0~~		11.2			
19			11.5			
20			12.0			
23		12.5	12.6			12.55
25		13.4	13.4			13.40
26		13.6	13.6			13.60
27		13.8	13.8			13.80
28		14.0	14.0			14.00

11:55

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Sheet 178 Thursday Dec. 19, 1918

Scale M B Series 697

B 52682 C7

9:25

Diff. in very p.

	Sc. 1	Sc. 2	Mean	Diff.	Diffr. Sc. 2	Sc. 2	Mean	Diff.	P.C. Sc. 2	Diff
1	3.2 3.0			3.25	7.0 6.8	6.7	6.75	.10	8.2	-1.35
2	3.9 3.7			3.81	7.4 7.2	7.4	7.30	.41	8.7	-.99
3	4.5 4.3	4.6	4.55	3.56	8.2 8.0	8.0	8.00	.11	9.0	-.89
4	4.9 4.7	4.8	4.85	3.35	8.3 8.1	8.0	8.05	.15	9.3	-1.10
5	5.1 4.9	5.2	5.15	3.41	8.6 8.4	8.5	8.45	.11	9.6	-1.04
6	5.9 5.7	5.8	5.85	3.09	8.7 8.5	8.7	8.60	.34	9.8	-.86
7	5.5 5.2	5.6	5.55	3.65	8.9 8.7	8.8	8.75	.46		
8	6.0 5.8	6.2	6.10	3.50	9.7 9.5	9.4	9.45	.15		
9	6.0 5.8	5.9	5.95	3.86	9.9 9.7	9.7	9.70	.11		
11	6.8 6.6	6.9	6.85	3.26	10.0 9.8	9.8	9.80	.31		
12	6.9 6.7	7.0	6.95	3.41	10. 10.0	10.0	10.00	.36		
13	7.0 6.8	7.2	7.10	3.56						
15		7.4		3.59						
16		7.6		3.63						
17		7.9		3.66						
19		8.5		3.51						
20		8.7		3.56						
21		9.2	9.2	9.20	3.68					
22		9.4	9.4	9.40	3.84					
23		9.8	9.7	9.75	3.65					
24		9.9	9.9	9.90	4.00					
25		10.0	10.0	10.00	4.08					

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Scale M

B Series 697

B 52683 — U M Cephei — diff. corr. −.02

	Sc. 1	Sc. 2	Mean	Corr.	Mag.	g Sc. 1	g Sc. 2	g Mean	g Corr.	g Mag.	P.C. Sc. 2	P.C. Corr'd Mag.
	5.5											
a	5.3	5.5	5.50	3.43	8.93	8.7	8.6	8.65	.18	8.83	9.5	−.93 8.57
	5.9											
b	5.7	5.9	5.90	3.37	9.27	8.8	8.8	8.80	.19	8.99	10.0	−.84 9.16
	6.3											
c	6.1	6.4	6.35	3.32	9.67	9.2	9.1	9.15	.20	9.35		
	7.0											
d	6.8	7.2	7.10	3.30	10.40	9.4	9.6	9.50	.22	9.72		
e		7.5		3.31	10.81	10.0	N.S.	10.0	.25	10.25		
f		7.6		3.31	10.91	10,0	N.S.	10.0	.25	10.25		
g		7.8		3.33	11.13							
h		8.2		3.39	11.59							
k		8.6		3.49	12.09							
l		8.6		3.49	12.09							
m		8.7		3.50	12.20							
n	9.1	9.1	9.10	3.58	12.68							
o	9.6	9.5	9.55	3.77	13.32							
p	9.7	9.4	9.55	3.77	13.32							
q	9.8	9.7	9.85	3.91	13.76							
r	10.0	10.0	10.00	4.01	14.01							
s		N.S.										
t		"										
u		"										

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Thursday Dec. 19, 1918

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Scale M

B Series 697

B 62684 RZ Centauri. Alt Corr. -.12

							g		h			P.C.		
	Sc. 1		Sc. 2	Mean	Corr	mag.	Sc. 2	Sc. 2	Mean	Corr	mag.	Sc. 2	Corr	mag.
	4.9													
a	4.7		4.8	4.85	3.51	8.36	7.7	7.7	7.70	.19	7.89	8.8	-1.04	7.76
	5.6													
b	5,4		5.6	5.60	3.41	9.01	8.4	8.5	8.45	.18	8.63	9.5	-.93	8.57
	5.8													
c	5.6		5.8	5.80	3.38	9.18	8.7	8.8	8.75	.19	8.94	9.9	-.86	9.04
	6.1													
d	5.9		6.0	6.05	3.35	9.40	9.0	9.0	9.00	.20	9.20			
	6.3													
e	6.1		6.3	6.30	3.32	9.62	9.4	9.6	9.50	.22	9.72			
	6.9													
f	6.7		6.9	6.90	3.30	10.20	10.0	10.0	10.00	.25	10.25			
	7.7													
g	7.5		7.6	7.65	3.32	10.97								
h			7.7		3.32	11.02								
k			8.0 ~~7.8~~		3.37	11.37								
l	x	8.2	8.3	8.25	3.40	11.65								
m		8.6	8.7	8.65	3.49	12.14								
n		9.0	9.0 ~~8.8~~	9.00	3.55	12.55								
o		9.5	9.6	9.55	3.77	13.32								
p		9.9	9.9	9.90	3.95	13.85								

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Scale M

B Series 697

B 52685 S. Pole Alt. Cor. −.92

	Sc.1	Sc.2	Mean	Curve	Mag.	g Sc.2	h Sc.2	Mean	Curve	mag	P.C. Sc.2	Curve	mag.
a	3.7 3.5			3.68	7.38	6.2	6.2	6.20	.2		7.7	−1.10	6.60
b	3.9 3.7			3.64	7.54	6.6	6.6	6.60	.24	6.84	8.2	−1.09	7.11
c	4.5 4.3	4.5	4.50	3.57	8.07	7.0	7.2	7.10	.20	7.30	8.6	−1.07	7.53
d	4.6 4.4	4.6	4.60	3.56	8.16	7.7	7.6	7.65	.19	7.84	8.8	−1.04	7.76
e	4.4 4.2	4.6	4.50	3.57	8.07	7.4	7.4	7.40	.20	7.60	8.8	−1.04	7.76
f	5.0 4.8	5.1	5.05	3.49	8.54	8.0	8.1	8.05	.18	8.23	9.3	−.97	8.33
g	5.8 5.6	5.7	5.75	3.39	9.14	8.3	8.4	8.35	.18	8.53	9.5	−.93	8.57
h	5.9 5.7	5.8	5.85	3.38	9.23	8.8	8.7	8.75	.19	8.94	9.8	−.88	8.92
k	6.0 5.8	5.8	5.90	3.37	9.27	9.2	9.2	9.20	.20	9.40	10.0	−.84	9.16
l	6.5 6.3	6.4	6.45	3.31	9.76	9.5	9.6	9.55	.22	9.77			
m	6.9 6.7	6.9	6.90	3.30	10.20	9.7	9.7	9.70	.24	9.93			
n	7.0 6.8	7.0	7.00	3.30	10.30	9.9	9.9	9.90	.24	10.14			
o		7.3		3.30	10.60	10.0	10.0	10.00	.25	10.25			
p		7.4		3.31	10.71								
q		7.7		3.32	11.02								
r		7.8		3.33	11.13								
s		8.0		3.36	11.36								
t		8.4		3.43	11.83								
u		8.6		3.49	12.09								
w		9.0		3.55	12.55								
x		9.1		3.58	12.68								
y		9.3		3.65	12.95								
z		9.6		3.78	13.38								
α		9.6		3.78	13.38								
β		9.7		3.83	13.53								
γ		9.7	9.8	9.75	3.87	13.62							

	Sc.2				Curve	mag.
δ	9.9	9.8	9.85	3.91	13.76	
δ′	9.9	9.9	9.90	3.95	13.85	
ε	10.0	10.0	10.00	4.01	14.01	
ζ	10.1	10.1	10.10	4.10	14.20	

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Scale M

B Series 697

B52686 Z Centauri. all cors. +.06

	Sc.1	Sc. 2	Mean	Curva.	Mag.	g Sc.2	h Sc.2	Mean	Curva.	Mag.	P.C. Sc.2	Curva.	Mag.
	4.5												
a	4.3	4.6	4.55	3.57	8.12	7.8	7.8	7.80	.18	7.98	8.7	-1.15	7.55
	4.9												
b	4.7	5.0	4.95	3.50	8.45	8.0	8.2	8.10	.18	8.28	9.3	-.97	8.33
	5.9												
c	5.7	5.8	5.85	3.37	9.22	8.7	8.7	8.70	.18	8.88	9.6	-.92	8.68
	6.3												
d	6.1	6.3	6.30	3.32	9.62	9.1	9.1	9.10	.20	9.30	9.9	-.86	9.04
	6.8												
e	6.6	6.8	6.80	3.30	10.10	9.5	9.3	9.40	.21	9.61			
	7.0												
f	6.8	7.0	7.00	3.30	10.30	9.7	9.7	9.70	.23	9.93			
g		7.5		3.31	10.81	10.0	10.0	10.00	.25	10.25			
h		8.0		3.37	11.37								
k		8.2		3.39	11.59								
l		8.7		3.50	12.20								
m		8.8		3.50	12.30								
n		9.0		3.55	12.55								
o	9.2	9.2	9.20	3.61	12.81								
p	9.3	9.4	9.35	3.67	13.02								
q	9.6	9.6	9.60	3.78	13.38								
r	9.8	9.7	9.75	3.87	13.62								
s	10.0	10.0	10.00	4.01	14.01								

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Scale M

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B52687 C7

	Sc 1	Sc 2	Mean	Diff.	g h Sc 2	Sc 2	Mean	Diff.	P.C. Sc 2	Diff.
	3.8									
1	3.6			3.05	6.4	7.0	6.80	.05	8.0	−1.15
	4.1									
2	3.9									
	~~4.1~~	4.2	4.15	3.56	7.2	7.4	7.30	.41	8.6	−.89
	4.8									
3	4.6	4.8	4.80	3.31	7.9	7.9	7.90	.21	9.0	.89
	4.3									
4	4.1	4.4	4.35	3.85	8.2	8.2	8.20	.00	9.3	1.10
	4.9									
5	4.7	5.0	4.95	3.61	8.6	8.5	8.55	.01	9.6	1.04
	5.3									
6	5.1	5.3	5.30	3.64	8.8	8.7	8.75	.19	9.8	.86
	5.9									
7	5.7	5.8	5.85	3.35	9.0	8.9	8.95	.25	10.0	−.80
	6.3									
8	6.1	6.2	6.25	3.35	9.2	9.1	9.15	.45		
	6.8									
9	6.6	6.7	6.75	3.06	9.7	9.7	9.70	.11		
	6.9									
10	6.7	6.8	6.85	3.26	9.9	9.8	9.85	.26		
	7.1									
12	6.9	7.1	7.10	3.26	10.0	10.0	10.00	.36		
13	~~7.4~~	7.4		3.26						
15		7.7		3.29						
16		8.0		3.23						
17		8.2		3.36						
19		8.6		3.41						
20		8.8		3.46						
21		9.4		3.48						
22		9.4	9.5	9.50	3.74					
23		9.6	9.7	9.65	3.75					
24		9.9	9.9	9.90	4.00					
25		10.0	10.0	10.00	4.08					
26		10.1	10.1	10.10	4.21					

12:20

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Friday Jan. 10, 1919

Sheet 179

Scale M. B Series 699

B52 700 C7

10;10

		Sc. 1	Sc. 2	Mean.	Diff.	g Sc. 2	h Sc 2	Mean	Diff.	P.C. Sc 2	Diff.
i.p.	1	3.2 3.0			3.65	6.4 6.6	6.6	6.50	.35	8.6	−1.75
i	2	3.7 3.5			4.01	7.6	7.6	7.60	.11	9.2	−1.49
i.	3	49 47		5.0	4.95	3.16	8.2	8.2	8.20	−.09	9.8	−1.69
	4	55 5.3		5.4	5.45	2.75	8.4	8.4	8.40	−.20	9.9	−1.70
	5	5.3 5.1		5.3	5.30	3.26	9.2	9.0	9.10	−.54		
	6	5.9 5.7		5.7	5.80	3.14	9.6	9.5	9.55	−.61		
	7	5.8 5.6		5.6	5.70	3.50						
	8	6.2 6.0		6.3	6.25	3.35						
	9	6.4 6.2		6.5	6.45	3.36						
	11	7.1 6.9		7.2	7.15	2.96						
	12			7.6		2.76						
	13			7.7		2.96						
	15			7.8		3.19						
	16			8.2		3.03						
	17		8.5	8.5	8.50	3.06						
	19		8.8	8.8	8.80	3.21						
	20		9.3	9.2	9.25	3.01						
	21		9.7	9.7	9.70	3.18						
	22		9.9	9.9	9.90	3.34						
	23			n.s.								
	24			n.s								
	25			n.s.								
	26			n.s								

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Scale M

B Series 699

B52901 SW Cutauri Alt Cors. .00

							g	h			P.C.
	Sc. 1		Sc 2	Mean. Curve	Mag.		Sc. 2	Sc 2	Mean. Curve	Mag.	Sc. 2
a	6.7 6.5		6.7	6.70	3.01	9.71	9.7	9.8	9.76	-.52	9.23
b	7.0 6.8		7.1	7.05	3.00	10.05	10.0	10.0	10.00	-.56	9.44
c	7.6		9.6		3.00	10.60					
d	7.8		7.8		3.00	10.80					
e			8.0		3.01	11.01					
f			8.1		3.01	11.11					
g			8.4		3.04	11.44					
h		8.5	8.5	8.50	3.06	11.56					
k		8.7	8.7	8.70	3.08	11.78					
l		9.1	9.1	9.10	3.16	12.26					
m		9.7	9.6	9.65	3.28	12.93					
n		10.0	9.9	9.95	3.37	13.32					
o			n.s								
p			"								

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Scale M

B Series 699

B52702 — U Crucis — Alt Cor. −.05

	Sc. 1	Sc. 2	Mean Curve	Mag.	g Sc. 1	g Sc. 2	g Mean Curve	g Mag.	P.C. Sc. 2	P.C. Curve	P.C. Mag.
a	4.8 4.6	4.8	4.80	3.17	7.97	8.0	8.0	8.00	−.10	7.90	8.1	−1.60	7.50
b	5.4 5.6 ~~6.8~~	5.6	5.60	3.09	8.69	8.6	8.7	8.65	−.27	8.38	9.7	−1.59	8.11
c	5.7 5.5	5.6	5.65	3.08	8.73	8.7	8.8	8.75	−.30	8.45	9.9	−1.56	8.34
d	6.0 5.8	5.9	6.95	3.05	9.00	8.8	9.0	8.90	−.33	8.57	10.0	−1.55	8.45
e	6.0 5.8	6.0	6.00	3.04	9.04	9.3	9.2	9.25	−.42	8.83			
f	6.8 6.6	6.8	6.80	3.01	9.81	10.0	9.9	9.95	−.55	9.40			
g	7.0 6.8	7.1	7.05	3.00	10.05								
h		7.6		3.00	10.60								
k		7.9		3.00	10.90								
l	8.4	8.4	8.40	3.04	11.44								
m	8.7	8.7	8.70	3.08	11.78								
n	9.3	9.2	9.25	3.18	12.43								
o	10.0	10.0	10.00	3.39	13.39								
p	10.0	10.0	10.00	3.39	13.39								

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Scale M B Series 699

B52703 α M Centauri Alt. Cor. -.02

	g					h				P.C.		
	Sc.1	Sc.2	Mean Curve	Mag.	Sc.2	Sc.2	Mean Curve			Sc.2	Curve	mag.
	6.4											
a	6.4	6.3	6.35	3.03	9.38	9.0	9.0	9.00	-.36	8.64	10.0	-1.55 8.45
	6.8											
b	6.6	6.8	6.80	3.01	9.81	9.6	9.7	9.65	-.50	9.15		
	7.1											
c	6.9	7.0	7.05	3.00	10.05	9.8	9.9	9.85	-.53	9.32		
d		7.5		3.00	10.50							
e		7.8		3.00	10.80							
f		8.0		3.00	11.00							
g		8.2		3.02	11.22							
h		8.5		3.06	11.56							
k		8.6	8.7	8.65	3.08	11.73						
l		8.8	8.8	8.80	3.10	11.90						
m		9.2	9.2	9.20	3.18	12.38						
n		9.8	9.8	9.80	3.33	13.13						
o		10.1	10.1	10.10	3.44	13.54						
p		n.s.										
q		"										
r		"										
s		"										
t		"										
u												

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Scale M

B Series 699

B 52704 V Cancri Alt. Cor. -.05

						g		h			PC	
	Sc 1	Sc 2	Mean	Curve	Mag.	Sc 1	Sc 2	Mean	Curve	Mag	Sc 2	Curve
a	5.7 5.5	5.6	5.65	3.08	8.73	8.8	8.7	8.75	-.30	8.45	8.8	-1.58
b		7.4		3.00	10.40	9.8	9.9	9.85	-.53	9.52	9.7	-1.59
c		7.6		3.00	10.60							
d		7.7		3.00	10.70							
e	8.6	8.6	8.60	3.07	11.67							
f	8.9	9.0	8.95	3.12	12.07							
g	9.6	9.5	9.65	3.25	12.80							
h	9.7	9.7	9.70	3.30	13.00							
k	9.9	10.0	9.95	3.37	13.32							
l		N.S										
m		"										
n		"										
o		"										

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Scale M

B series 699

B52705 D7 Alt. Cor. +.08

	Dc.1	Dc.2	Mean Curve			g Dc.2	h Dc.2	Mean Curve	P.C. Dc.2 Curve
1									
2									
3									
4	3.6 3.4		3.5			8.7	8.7	8.70 −.30 8.40	9.6 −1.60 8.00
5	3.8 3.6					8.5	8.6	8.55 −.25 8.30	9.6 −1.60 8.00
6	3.9 3.7					8.2	8.1	8.15 −.14 8.01	9.3 −1.60 7.70
7	5.4 5.2	5.5	5.45	3.10	8.55	8.7	8.6	8.65 −.27 8.38	9.9 −1.56 8.34
8	5.5 5.3	5.3	5.40	3.10	8.50	8.8	8.6	8.70 −.30 8.40	9.9 −1.56 8.34
9	5.5 5.3	5.4	5.45	3.10	8.55	8.8	8.7	8.75 −.30 8.45	
10	5.3 5.1	5.4	5.35	3.10	8.45	9.0	9.1	9.05 −.38 8.67	
11						to			
12	5.9 5.7	5.8	5.85	3.06	8.91	10.0	10.0	10.00 −.56 9.44	
13	6.8 6.6	6.6	6.70	3.01	9.71				
14	6.3 6.1	6.4	6.35	3.03	9.38				
15	7.1 6.9	7.1	7.10	3.00	10.10				
16	7.0 6.8	7.0	7.00	3.00	10.00				
17		7.6		3.00	10.60				
18		8.1		3.01	11.11				
19		8.2		3.02	11.22				
20		8.6		3.07	11.67				
21		8.7		3.08	11.78			Dc.2 Mean Curve	
22		9.0		3.13	12.13	2.7	10.0	10.0 10.00 3.39	13.39
23	9.6	9.5	9.55	3.26	12.81	08.		M.S.	
24	9.8	9.8	9.80	3.32	13.12				
25	9.8	9.8	9.80	3.32	13.12				
26	10.0	10.0	10.00	3.39	13.39				

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Scale M

B Series 699

B5706 C7

		Sc. 1	Sc. 2	Mean	Diff.	g Sc. 2	h Sc. 2	Mean	Diff.	P.C. Sc. 2	Diff.
i.p.	1	3.5 3.3			3.35	7.4	7.4	7.40	-.55	8.6	-1.75
i.p.	2	4.1 3.9			3.61	7.8	7.8	7.80	-.09	9.1	-1.39
	3	5.0 4.8		4.9	4.95 3.16	8.6	8.6	8.60	-.49 -.40	9.6	-1.49
	4	5.8 5.6		5.7	5.75 2.45	8.4	8.4	8.40	-.20	9.7	-1.50
	5	5.5 5.3		5.4	5.45 3.11	8.7	8.7	8.70	-.24	10.0	-1.44
	6	6.0 5.8		5.9	5.95 2.99	9.1	9.0	9.05	-.11 -.09		
	7	6.0 5.8		5.8	5.90 3.30	9.9	9.8	9.85	-.65		
	8	6.5 6.3		6.4	6.45 3.15	10.0	9.9	9.95	-.35		
	9	6.7 6.5		6.6	6.65 3.16						
	11	7.3 7.1		7.3	7.30 2.81						
	12			7.4	2.96						
	13			7.6	3.06						
	15			7.9	3.09						
	16			8.1	3.13						
	17			8.4 8.1	3.16						
	19		8.8	8.8	8.80 3.21						
	21		9.0	9.8 9.0	9.00 3.26						
	21		9.6	9.6	9.60 3.28						
	22		9.8	9.8	9.80 3.44						
	23		10.0	10.0	10.00 3.40						
	24			N.S. 10.0							
	25			N.S.							
	26			"							

12:40

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Saturday Jan. 11, 1919

MC 4356

MC 3969

Z Lacertae.

	10:15 direct Ast.	AC 15181	8.9	
C.S.	mag.	AC 9060	8.5	e' used as cp. star.
a' A	6.6	AC 7262	9.1	
b' B	6.9	AC 6551	9.4	
a a	7.0	AC 4572	9.0	
c' a'	7.7	AC 15803	9.2	
c c	8.1	AC 14621	8.9	
e e	8.3	AC 15607	9.9	
b b	8.6	AC 14270	8.2	e used as cp. star
e' b'	8.6	AC 15822	9.0	
f f	9.0	AC 19053	9.2	i.
d d	9.2	AC 16821	9.4	
f' d'	9.3	AC 18881	8.8	e' used.
g g	9.7	AC 17285	9.9	
h h	9.9	AC 14438	9.6	
k k	10.2	AC 19232	8.9	e' used
l l	10.6	AC 18548	9.1	
m m	10.9	AC 13698	9.9	
n n	11.2	AC 14517	9.2	
o o	11.7	AC 19623	9.3	
		AC 20225	8.9	
red letters indicate		AC 20597	9.2	
designations to be		AC 16142	9.7	i.
published.		AC 17791	9.2	
		AC 17812	9.2	
		AC 18042	9.8	
		AC 18249	10.0	

10:50

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Saturday Jan. 11, 1919

Z Lacertae

2:20	AC 19273	9.2	
	AC 19774	9.3	
	AC 15954	8.6	é used
	AC 12809	9.5	
	AC 13451	9.4	
	AC 14745	9.2	
	AC 15449	9.8	
	AC 8682	8.4	e + é used
	AC 9031	8.2	e used
	AC 10013	9.5	
	AC 10852	9.7	
	AC 11033	9.3	i
	AC 12107	9.4	"
	AC 12326	8.8	é used
	AC 12379	8.4	
	AC 12391	9.7	
	AC 8637	10.2	
	AC 8760	8.9	
	AC 2077	9.0	
	AC 2188	9.0	
	AC 2684	9.3	
	AC 2751	9.4	
	AC 3060	8.6	é used
	AC 3078	8.5	e + é "
	AC 3866	9.0	
	AC 4335	9.2	
	AC 6645	9.7	

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Saturday Jan. 11, 1919.

Z Lacertae

AC 5745	9.0	
AC 3127	9.1	
AC 6681	9.8	
AC 6744	9.0	
AC 7227	9.6	i · p.
AC 7712	9.2	
AC 5789	9.6	
AC 10950	9.5	
AC 7171	8.5	e+e' used
AC 7696	9.8	
AC 11137	8.4	e used
AC 13326	9.8	
AC 7646	8.7	
AC 6898	9.0	
AC 5969	8.8	e used
AC 7307	9.3	i
AC 11077	9.0	
AC 7096	9.2	
AC 6933	9.8	i
AC 5357	8.6	
AC 11302	9.7	
AC 5239	9.2	
AC 4355	8.6	e used
AC 12322	9.3	ff.
AC 3168	9.3	
AC 2141	9.0	
AC 1696	9.2	

3:10

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Monday Jan. 13, 1919

2 Lacertae

9:00	AC 13233	9.4	
	AC 2085	9.5	
	AC 20349	9.6	
	AC 12179	9.6	
	AC 2019	9.7	
	AC 11291	8.9	
	AC 9065	9.1	
	AC 10948	9.3	
	AC 9939	9.2	i.
	AC 9168	9.2	
	AC 862	9.6	
	AC 11190	8.9	
	AC 2777	9.7	
	AC 11100	8.9	
	AC 15529	9.7	
	AC 15718	9.8	
	AC 16850	9.3 ✓	
	AC 19573	9.9	
	AC 9202	9.5	
	AC 13526	9.3	
	AC 14549	9.3	
	AC 14702	8.8	i rvcd
	AC 12674	8.6	i "
	AC 12558	8.5	i "
	AC 14483	9.5	
	AC 5096	9.2	
	AC 14284	8.9	

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Monday Jan. 13, 1919

Z Sagittae

AC 13642	8.6	e' used
AC 5780	8.8	
AC 5503	9.9	
AC 5185	9.6	
AC 2650	8.3	e used
AC 5158	9.0	
AC 4286	9.1	
AC 3223	8.9	
AC 4092	9.7	
AC 656	8.5	e + e' used
AC 1971	9.1	
AC 8620	9.7	
AC 11255	9.3	i
AC 13312	8.4	e' used
AC 12622	9.7	
AC 7145	9.3	
AC 1766	9.5	
AC 8608	9.0	
AC 10859	9.1	
AC 12546	9.3	
AC 10874	9.0	
AC 15506	9.2	
AC 14567	9.7	
AC 10905	9.6	
AC 13364	8.7	e' used
AC 6815	9.2	
AC 5520	9.0	

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Monday Jan. 13, 1919

2 Sacertae

AC 5280	8.9	
AC 4711	8.7	e' used
AC 4172	9.2	
AC 5015	9.0	
AC 4618	9.2	
AC 2153	8.3	e used
AC 3916	9.9	
AC 5127	8.5	e' used
AC 4524	9.0	
AC 3289	9.0	
AC 4128	8.6	e' used
AC 2063	9.4	
AC 3204	9.1	
AC 2964	9.5	
AC 11111	9.9	
AC 14191	9.2	
AC 11734	9.2 ✓	
AC 12528	9.0	
AC 11962	8.2	
AC 919	8.8	
AC 7769	9.2	
AC 7252	8.3	
AC 7005	9.0	
AC 6866	9.3	
AC 6635	9.2	
AC 6046	9.0	e p
AC 13549	9.1	

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Monday Jan. 13, 1919

2 Sacurtae

	AC 5476	8.6	e' used
	AC 6479	8.5	e' "
	AC 12703	9.3	
	AC 13413	8.9	
	AC 5640	9.6	
	AC 12663	9.0	
	AC 6386	9.8	
	AC 12543	9.0	
	AC 6501	9.2	
	AC 12611	9.3	
	AC 8814	9.9	
	AC 1996	8.4	e used
	AC 11724	9.5	
	AC 1883	8.5	e used
	AC 11921	9.8 ?	
10:45	AC 17837	9.1	

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Tuesday Jan. 14, 1919

ζ Leonis

Plates turned 180°

			cp. group p. 88		Mean
8:55	AC 17839	9.2		9.1	9.15 05,05 ✓
	AC 11921	9.8		9.8	9.80 ✓
	AC 1883	8.5 e & e' used		8.5	8.50 ✓
	AC 11724	9.4		9.5	9.45 05,05 ✓
	AC 1996	8.3 e used		8.4	8.35 05,05 ✓
	AC 8814	10.0		9.9	9.95 05,05 ✓
	AC 12611	9.4		9.3	9.35 05,05 ✓
	AC 6581	9.2		9.2	9.20 ✓
	AC 12543	9.0		9.0	9.00 ✓
	AC 5386	9.9		9.8	9.75 05,05 ✓
	AC 12663	8.9		9.0	8.95 05,05 ✓
	AC 5640	9.7		9.6	9.70 10,10 ✓
	AC 13413	8.9		8.9	8.90 ✓
	AC 12703	9.3		9.3	9.30 ✓
	AC 6479	8.6 e' used		8.5	8.55 05,05 ✓
	AC 5476	8.8 e' "	cp. p. p. 37	8.6	8.70 10,10 ✓
	AC 13529	9.2		9.1	9.15 05,05 ✓
	AC 6046	8.7		9.0	8.85 15,15 ✓
	AC 6635	9.3		9.2	9.25 05,05 ✓
	AC 6566	9.3		9.3	9.30 ✓
	AC 7105	8.9		9.0	8.95 05,05 ✓
	AC 7052	8.2		8.3	8.25 05,05 ✓
	AC 7769	9.2		9.2	9.20 ✓
	AC 919	8.8 e' used		8.8	8.80 ✓
	AC 11962	8.3 e "		8.2	8.25 05,05 ✓
	AC 12528	9.0		9.0	9.00 ✓
	AC 11734	9.2		9.2	9.20 ✓

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Tuesday Jan. 14, 1919

2 Lacertae

Eclipse de 2. 1. 19

		Plates turned 180°	cp. fr. p. 37	Mean
AC 14191	9.1		9.2	9.15 .05,.05 ✓
AC 11111	9.8		9.9	9.85 .05,.05 ✓
AC 2964	9.5		9.5	9.50 ✓
AC 3304	8.9		9.1	9.00 .10,.10 ✓
AC 2063	9.4		9.4	9.40 ✓
AC 4128	8.8	i' used	8.6	8.70 .10,.10 ✓
AC 3289	9.1		9.0	9.05 .05,.05 ✓
AC 4524	8.6	i' used	9.0	8.80 .20,.20 ✓
AC 5127	8.4	i + i' "	8.5	8.45 .05,.05 ✓
AC 3916	9.9	"	9.9	9.90 ✓
AC 2153	8.3	i used	8.3	8.30 ✓
AC 4618	9.2		9.2	9.20 ✓
AC 5015	9.0		9.0	9.00 ✓
AC 4172	9.2		9.2	9.20 ✓
AC 4711	8.8	i' used	8.7	8.75 .05,.05 ✓
AC 5280	8.7		cp. p. 36 8.7	8.90 ✓
AC 5520	9.0		9.0	9.00 ✓
AC 6815	9.2		9.2	9.20 ✓
AC 13364	8.9		8.7	8.80 .10,.10 ✓
AC 10905	9.6		9.6	9.60 ✓
AC 14567	9.8		9.7	9.75 .05,.05 ✓
AC 15506	9.2		9.2	9.20 ✓
AC 10874	9.0		9.0	9.00 ✓
AC 12546	9.3		9.3	9.30 ✓
AC 10859	9.1		9.1	9.10 ✓
AC 8608	8.9		9.0	8.95 .05,.05 ✓
AC 1765	9.5		9.5	9.50 ✓

9:55

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Tuesday Jan. 14, 1919

Lindsay ch. R.L.A.

Σ Sagittae

Plates turned 180°

				cp. p. 36	Mean	
11:55	AC 7145	9.3		9.3	9.30	✓
	AC 12622	9.8		9.7	9.75 .05, .05	✓
	AC 13312	8.6	i' weak	8.4	8.50 .10, .10	✓
	AC 11255	9.3	i. d. Cannot change 2st.	9.3	9.30	✓
	AC 8620	9.6		9.7	9.65 .05, .05	✓
	AC 1971	8.9		9.1	9.00 .10, .10	✓
	AC 656	8.8	i' weak	8.5	8.65 .15, .15	✓
	AC 4092	9.5		9.7	9.60 .10, .10	✓
	AC 3223	8.9		8.9	8.90	✓
	AC 4286	9.0		9.1	9.05 .05, .05	✓
	AC 5158	9.0		9.0	9.00	✓
	AC 2650	8.3		8.3	8.30	✓
	AC 5185	9.5		9.6	9.55 .05, .05	✓
	AC 5503	9.7		9.9	9.80 .10, .10	✓
	AC 5780	8.9		8.8	8.85 .05, .05	✓
	AC 13642	8.8	i' weak	cp. p. 35 8.6	8.70 .10, .10	✓
	AC 14284	9.0		8.9	8.95 .05, .05	✓
	AC 5096	9.2		9.2	9.20	✓
	AC 14483	9.3		9.5	9.40 .10, .10	✓
	AC 12558	8.5	i' weak	8.5	8.50	✓
	AC 12674	8.6	i' "	8.6	8.60	✓
	AC 14702	8.9		8.8	8.85 .05, .05	✓
	AC 14549	9.3		9.3	9.30	✓
	AC 13526	9.2	Lee Bk 6:201	9.3	R 9.25 .05, .05	✓
	AC 9202	9.4		9.5	9.45 .05, .05	✓
	AC 19578	9.9		9.9	9.90	✓
	AC 16850	9.3		9.3	9.30	✓

12:20

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Tuesday Jan. 14, 1919

Z Sagittae

		Plates turned 180°	cp. p. 35	Mean
2:00	AC 15718	9.7	9.8	9.75 .05, .05 ✓
	AC 15529	9.6	9.7	9.65 .05, .05 ✓
	AC 11100	9.1	8.9	9.00 .10, .10 ✓
	AC 2744	9.5	9.7	9.60 .10, .10 ✓
	AC 11190	9.0	8.9	8.95 .05, .05 ✓
	AC 862	9.6	9.6	9.60 ✓
	AC 9168	9.2	9.2	9.20 ✓
	AC 9939	9.1	9.2	9.15 .05, .05 ✓
	AC 10948	9.3	9.3	9.30 ✓
	AC 9065	9.0	9.1	9.05 .05, .05 ✓
	AC 11291	8.9	8.9	8.90 ✓
	AC 2019	9.6	9.7	9.65 .05, .05 ✓
	AC 12179	9.5	9.6	9.55 .05, .05 ✓
	AC 20349	9.6	9.6	9.60 ✓
	AC 2185	9.5	9.5	9.50 ✓
	AC 13233	9.4	9.4	9.40 ✓
	AC 1696	9.2	cp. p. 34 9.2	9.20 ✓
This ob. was discordant in light curve.	AC 2141	9.8 ~~Take mean~~ (Later obs.) d. 9.10 ~~9.05~~	9.0	9.00 ✓
	AC 3168	9.3	9.3	9.30 ✓
	AC 12322	9.4	9.3	9.35 .05, .05 ✓
	AC 4355	8.4 c + d used	8.6	8.50 .10, .10 ✓
	AC 5239	9.1	9.2	9.15 .05, .05 ✓
	AC 11302	9.4	9.7	9.55 .15, .15 ✓
	AC 5357	8.6 d used	8.6	8.60 ✓
	AC 6933	9.6	9.8	9.70 .10, .10 ✓
	AC 7096	9.2	9.2	9.20 ✓
	AC 11077	9.1	9.0	9.05 .05, .05 ✓

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Tuesday Jan. 14 1919

2 Lacertae

Plates turned 180°

			cp. p. 34	Mean
AC 7307	9.3		9.3	9.30 ✓
AC 5969	8.9		8.8	$8.86^{05,05}$ ✓
AC 6898	9.0		9.0	9.00 ✓
AC 7646	8.2	e used	8.7	$8.45^{25,25}$ ✓
AC 13326	9.7		9.8	$9.75^{05,05}$ ✓
AC 11137	8.5	e used	8.4	$8.45^{05,05}$ ✓
AC 7696	9.8		9.8	9.80 ✓
AC 7171	8.3	e used	8.5	$8.40^{10,10}$ ✓
AC 10950	9.4		9.5	$9.45^{05,05}$ ✓
AC 5789	9.6		9.6	9.60 ✓
AC 7712	9.3		9.2	$9.25^{05,05}$ ✓
AC 7227	9.5		9.6	$9.55^{05,05}$ ✓
AC 6744	9.0		9.0	9.00 ✓
AC 6681	9.7		9.8	$9.75^{05,06}$ ✓
AC 3127	9.1		9.1	9.10 ✓
AC 5745	8.6	e used	9.0 cp. p. 33	$8.80^{20,20}$
AC 6645	9.7		9.7	9.70 ✓
AC 4335	9.1		9.2	$9.15^{05,05}$ ✓
AC 3866	8.9		9.0	$8.95^{05,05}$ ✓
AC 3078	8.2	e used	8.5	$8.35^{15,15}$ ✓
AC 3060	8.5	e "	8.6	$8.55^{05,05}$ ✓
AC 2751	9.3		9.4	$9.35^{05,05}$ ✓
AC 2684	9.3		9.3	9.30 ✓
AC 2188	8.8	e used p.i.d. maybe 9.00	9.0	$8.90^{10,10}$ ✓
AC 2077	8.9		9.0	$8.96^{05,05}$ ✓
AC 8760	8.9		8.9	8.90 ✓
AC 8637	9.6		10.2	$9.90^{30,30}$ ✓

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Tuesday Jan. 14, 1919

2 Sweetae

Edges of L.L. 12

	Plates turned 180°	cp. p33.	Mean
AC 12391	9.6	9.7	9.65 $^{05}_{05}$ ✓
AC 12379	8.3 e used	8.4	8.35 $^{05}_{05}$ ✓
AC 12326	8.8	8.8	8.80 ✓
AC 12007	9.5	9.4	9.45 $^{05}_{05}$ ✓
AC 11033	9.3	9.3	9.30 ✓
AC 10852	9.4	9.7	9.55 $^{15}_{15}$ ✓
AC 10013	9.4	9.5	9.46 $^{05}_{05}$ ✓
AC 9031	8.2 e used	8.2	8.20 ✓
AC 8682	8.3 e "	8.4	8.35 $^{05}_{05}$ ✓
AC 15449	9.5 "	9.8	9.65 $^{15}_{15}$ ✓
AC 14745	9.0	9.2	9.10 $^{10}_{10}$ ✓
AC 13451	9.4	9.4	9.40 ✓
AC 12809	9.7	9.5	9.60 $^{10}_{10}$ ✓
AC 15954	8.8 e used	8.6	8.70 $^{10}_{10}$ ✓
AC 19774	9.3	9.3	9.30 ✓
AC 19273	9.2	cp. p32 9.2	9.20 ✓
AC 18249	9.7	10.0	9.85 $^{15}_{15}$ ✓
AC 18042	9.6	9.8	9.70 $^{10}_{10}$ ✓
AC 17812	9.3	9.2	9.25 $^{05}_{05}$ ✓
AC 17751	9.3	9.2	9.25 $^{05}_{05}$ ✓
AC 16142	9.8	9.7	9.75 $^{05}_{05}$ ✓
AC 20597	9.3	9.2	9.25 $^{05}_{05}$ ✓
AC 20225	8.9	8.9	8.90 ✓
AC 19623	9.2	9.3	9.25 $^{05}_{05}$ ✓
AC 14519	9.0	9.2	9.10 $^{10}_{10}$ ✓
AC 13698	9.8	9.9	9.85 $^{05}_{05}$ ✓
AC 18548	9.0	9.1	9.05 $^{05}_{05}$ ✓

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Tuesday Jan. 14, 1919

2 Sagittae

Plates turned 180°

				Gpf. 32	Mean
AC 19232	8.8	e'used	Rec Bk 6:201	8.9	8.85 .05, .05 ✓
AC 14438	9.5			9.6	9.55 .05, .05 ✓
AC 17285	9.9			9.9	9.90 ✓
AC 18881	8.8	e'used		8.8	8.80 ✓
AC 16821	9.2			9.4	9.30 .10, .10 ✓
AC 19053	9.2			9.2	9.20 ✓
AC 15822	8.9			9.0	8.95 .05, .05 ✓
AC 14270	8.2	e'used		8.2	8.20 ✓
AC 15607	9.7			9.9	9.80 .10, .10 ✓
AC 14621	8.9			8.9	8.90 ✓
AC 15803	8.9 R		adopt 9.2?	9.2	9.05 .15, .15 ✓
AC 4572	9.0			9.0	9.00 ✓
AC 6551	9.5			9.4	9.45 .05, .05 ✓
AC 7262	9.0			9.1	9.05 .05, .05 ✓
AC 9060	8.5	e'used		8.5	8.50 ✓
AC 15812	8.9			8.9	8.90 ✓

3:20

Reference Plates
MC 4356
MC 3969

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Wednesday Jan. 15, 1919

~~Tuesday Jan. 14, 1919~~

Reexamined Jan. 25, 1919

Plate MC. 4356 Comparison stars for ζ Sagittae.

	x	y	x	y	Diff x (b') Diff y.	Diff x (c') Diff y.
2:45					Diff	
a'	+0390	-0455	+0390	-0455		
b'	+2720	-1855	+2726 (2)	-1855		
a	-3755	+1185	-3755	+1185		
c'	+2155	+2540	+2155	+2545 (2)		
E	~~-3110~~ -1015 (2)	-3110	-1015 (2)	-3110		
e	+0940	+1710	+0940	+1715 (2)		
b	.	.	.	.		
e'	-0490	-0055	-0490	-0055		
f	+2300	+0345	+2300	+0345		
d	.	.	.	.		
f'	+0900	-0610	+0900	-0610		
g	+2100	+0615	+2100	+0620 (2)		
h	+1820	+0045	+1820	+0046		
k	+0505	-1725	+0505	-1725	+2217 -0130	+1650 +4267
l	+1970	-1445	+1965 (8)	-1445	+0754 -0410	+0182 (7) +3987
m	+1765	-1260	+1765	-1260	+0957 -0595	+0390 +3802
n	+1340	-1005	+1340	-1005	+1382 -0850	+0815 +3547
o	+1190	-0605	+1190	-0605	+1532 -1250	+0960 +3147
(Z) Var.	+1505	-0320	+1505	-0320	+1217 -1535	+0650 +2862
(RR) Var.	+1815	-1785	+1815	-1785	+0907 -0070	+0340 +4327

3:25

		R.A. 1900			Dec. 1900		sec δ	4 sec δ	sec δ / 15
b'	+55 2797	22h	39m	16.s3	+55°	52.′9	1.783	~~7.132~~ ~~4.783~~	.119
c'	+55 2836		38	16.8	57	04.9	1.840	7.360 ~~4.840~~	.122
E	+55 2779		31	53.3	55	32.9	1.768	7.072 ~~4.768~~	.118

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~~Diff x~~

Diff x (E) Diff y.

Diff x 4 rec δ

b' c' E

Diff x var. Z Diff y.

					+1219	-1535
					+ 650	+2868
					- 2530	- 2790
- 1520	-1355	+158.1	+12.4	-107.5	-1030	+1405
- 2985	-1665	+53.8	+ 13.8	-210.9	+ 465	+1125
- 2720	-1850	+68.2	+ 28.7	-196.6	+ 260	+940
- 2365	-2105	+98.6	+ 60.0	-166.5	~~- 885~~	+ 685
- 2245	-2505	+109.3	+ 70.7	-155.9	- 315	+ 285
- 2530	-2790	+86.8	+47.8	-178.2		
- 2880	-1325	+64.7	+25.0	-200.1	+310	-1465

	98.2 Diff x (b') Diff y	98.2 Diff x (c') Diff y	98.2 Diff x E Diff y	Diff x $\frac{\text{rec}}{15}$ b' c' E
k	+2177.09 -127.66	+1620.30 +4190.19	-1492.64 - 1360.07	+259.07 +197.68 -176.13
l	+ 740.43 -402.62	+183.63 +3915.23	-2929.31 - 1635.03	+ 88.11 + 22.40 -345.66
m	+ 939.77 -584.29	+ 382.98 +3733.52	-2729.76 - 1816.70	+111.83 + 46.72 -322.74
n	+1357.12 -834.70	+ 800.33 +3483.15	-2312.61 - 2067.11	+161.50 + 97.64 -278.89
o	+1504.42 -1227.50	+ 942.72 +3090.35	-2165.31 - 2459.91	+179.03 +115.01 -255.54
Var. Z.	+1195.09 -1507.37	+ 638.30 +2810.48	-2474.64 -2739.78	+142.22 + 77.87 -291.01
Var. RR	+ 890.67 - 68.74	+ 333.88 +4249.11	-2779.06 -1301.15	+105.99 +40.73 -327.93

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Drs.		R.A. 1900		Dec. 1900,		Mean pos. 1900.		
k	k	22h 34m	56.2 59.1 50.6	55°	55.0 56.1 55.6	22h 34m 56.3	55° 55.2	
l	~~k~~ l	22 37	47.2 54.4 40.1	55° 56°	59.6 59.7 00.1	22 37 47.2	55 59.8	
m	~~l~~ m	22 37	23.5 30.1 16.6	56°	02.6 02.7 03.2	22 37 23.4	56 02.8	
n	~~m~~ n	22 36	33.8 39.2 27.3	56°	06.8 06.9 07.3	22 36 33.8	56 07.0	
o	o	22 36	16.3 21.8 10.0	56°	13.3 13.4 13.9	22 36 16.0	56 13.5	

Drs.	Diff. x var² diff y.	Diff x var² Diff y.	Diff x. var RR Diff y.	Diff x var RR Diff y.
a' a				
b'				
a				
c'				
e				
e'				
f				
f'				
g				
h				
k				
l				
m				
n				
o				

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Wednesday Jan. 15, 1919

Comparison of faint Stars with P. C. of bright stars -
& W Centauri.

9:45	B	16382	Imag (+5.15)
	g	9.1	14.25
	r	9.4	14.55
	i	10.2	15.35
	z	10.6	15.75
10:00	u	u.s.	

5.15 equals difference in magnitude between
primary images and prismatic companions
on this date - June 16, 1896 (J.D. 13727)

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Wednesday Jan 15, 1919

Scale M

α M Centauri

B16382

2:00 P.C.

	Sc.2.	Diff.	Diff.
a	7.9	+1.00	+.96
b	8.5	+.70	+.66
c	8.8	+.80	+.82
d	9.5	+.90	+.88
e	9.7	+1.90	+.97

2:10

	Prim. Sc.2	Curr. Diff.	Mag. (+5.15)
g	8.2	+.82	14.18
f	8.8	+.82	14.77
l	9.7	+.92	15.77
k	9.8	+.94	15.89
m	10.0	+.96	16.11

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Thursday Feb. 13, 1919

Lodge clear.

Z Lacertae

		Returned	Mean.	
10:00	d 21647	9.0 9.1	9.05	0' ✓
10:55	d 23580	9.6 9.6	9.60	✓
	d 23521	9.2 9.2	9.20	✓
	d 21579	8.8 8.9	8.85	0' ✓
	d 93521	8.9 9.0	8.95	0' ✓
	d 11872	9.2 9.5	9.35	1 2 ✓
	d 21564	9.5 9.8	9.65	2 2 ✓
	N1465	9.7 9.6	9.65	1 0 ✓
	d 16272	9.3 9.5	9.40	1' ✓ g.
	d 18744	8.9 9.0	8.95	0' ✓
	d 15890	9.2 8.9	9.05	2 1 ✓
	d 6886	9.2 9.1	9.15	R 1 0 ✓ see ~~p~~ Bk 6:201
	d 7448	9.8 9.7	9.75	1 0 ✓
	d 9006	9.3 9.2	9.25	R 1 0 ✓ see Bk 6:201
	d 7244	9.5 9.6	9.55	0' ✓
	d 9328	9.2 R 8.8	9.00	2 2 ✓ adopt 8.8?
	d 9444	8.8 8.8	8.80	g Yoo
	d 9728	9.3 9.3	9.30	✓
	d 9089	9.3 9.4	9.35	0' ✓
	d 7153	9.8 9.7	9.75	1 0 ✓
	d 12062	8.9 8.9	8.90	✓

10:30
11:15

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1918phae.proj..694A

Friday Jan. 17, 1919.
Saturday Jan 18, 1919
R R Lacertae

		Plates turned		Mean
1) 11:15	AC 5789	9.9	9.9	$9.80^{.10,.10}$ ✓
2) 2:20	AC 15812	9.5	9.5	9.50 ✓
See p. 32 – Same as Z Lacertae sequence.	AC 9060	9.0	9.1	$9.05^{.05,.05}$ ✓
	AC 7262	9.8	9.8	$9.70^{.10,.10}$ ✓
	AC 6557	8.8	8.8	8.80 ✓
	AC 4572	9.6	9.6	9.60 ✓
	AC 15803	9.9	9.8	$9.85^{.05,.05}$ ✓
	AC 14621	8.9	8.9	8.90 ✓
	AC 19053	9.7	9.7	9.70 ✓
	AC 16821	9.7	9.6	$9.65^{.05,.05}$ ✓
	AC 10950	9.2	9.1	$9.15^{.05,.05}$ ✓
	AC 7171	9.4	9.4	9.40 ✓
	AC 17285	9.0	9.0	9.00 ✓
	AC 14438	10.1	10.1	10.10 ✓
	AC 1765	9.0	8.9	$8.95^{.05,.05}$ ✓
	AC 8608	9.8	9.7	$9.75^{.05,.05}$ ✓
	AC 10859	9.2	9.2	9.20 ✓
	AC 18881	9.6	9.7	$9.65^{.05,.05}$ ✓
	AC 12546	9.9	9.6	$9.75^{.15,.15}$ ✓
	AC 7696	9.7	9.7	9.70 ✓
	AC 16822	9.8	9.6	$9.70^{.10,.10}$ ✓
	AC 11137	9.7	9.8	$9.75^{.05,.05}$ ✓
	AC 19232	10.0	9.8	$9.90^{.10,.10}$ ✓
	AC 13698	9.9	9.7	$9.75^{.05,.05}$ ✓
	AC 6815	9.8	9.6	$9.70^{.10,.10}$ ✓

Rec Bk 6: 201 Adopt 9.3?

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Friday Jan. 17, 1919
Saturday Jan. 18, 1919
R R Lacerda

	Photo-visual		Mean. Red for Ou. [illegible]
AC 15506	10.0	9.8	9.90 ^{10,10} ✓
AC 5520	8.8	8.8	8.80 ✓
AC 18548	9.6	9.5	9.55 ^{05,05} ✓
AC 14567	9.7	9.6	9.65 ^{05,05} ✓
AC 4711	9.1	9.0	9.05 ^{05,05} ✓
AC 10905	9.4	9.3	9.35 ^{05,05} ✓
AC 5280	9.0	8.9	8.95 ^{05,05} ✓
AC 15607	9.6	9.6	9.60 ✓
AC 4172	9.1	9.0	9.05 ^{05,05} ✓
AC 13364	9.8	9.9	9.85 ^{05,05} ✓
AC 20225	9.5	9.5	9.50 ✓
AC 5015	8.9	8.8	8.85 ^{05,05} ✓
AC 10874	10.1	9.7	9.90 ^{20,20} ✓
AC 4618	10.0	9.7	9.85 ^{15,15} ✓
AC 19623	9.3	9.3	9.30 ✓
AC 2153	9.6	9.5	9.55 ^{05,05} ✓
AC 14270	9.0	8.9	8.95 ^{05,05} ✓
AC 17791	9.3	9.0	9.15 ^{15,15} ✓
AC 3916	9.2	9.3	9.25 ^{05,05} ✓
AC 13326	8.9	8.9	8.90 ✓
AC 7646	9.7	9.7	9.70 ✓
AC 5727	8.8	8.8	8.80 ✓ x'ward
AC 14519	9.3	9.3	9.30 ✓
AC 20597	9.0	9.0	9.00 ✓
AC 6898	9.4	9.4	9.40 ✓

1 12:05
4 3:00

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1918phae.proj..694A

1 Friday Jan. 17, 1919
2 Monday Jan. 20, 1919
R R Lacaille

Ledgard & Raft.

			Plates Turned	Mean
1) 2:05	AC 3289	9.7	10.0	9.85 -15, 15 ✓
2) 9:25	AC 16142	10.0	9.6	9.80 -20, -20 ✓
	AC 12326	9.6	9.5	9.55 -05, 05 ✓
	AC 5969	8.9	8.9	8.90 ✓
	AC 4128	9.7	9.6	9.65 -05, 05 ✓
	AC 17812	8.9	8.9	8.90 ✓
	AC 7307	9.7	9.6	9.65 -05, 05 ✓
	AC 2063	9.1	9.0	9.05 -05, 05 ✓
	AC K077	9.8	9.6	9.70 -10, 10 ✓
	AC 18042	8.6	8.8	8.70 -10, 10 ✓ i need
	AC 3204	9.0	8.9	8.95 -05, 05 ✓
	AC 7096	8.5	8.7	8.75 -05, 05 ✓ i need
	AC 12391	9.3	9.3	9.30 ✓
	AC 19273	9.4	9.5	9.45 -05, 05 ✓
	AC 8637	9.2	9.2	9.20 ✓
	AC 2964	9.3	9.2	9.25 -05, 05 ✓
	AC 6933	9.3	9.3	9.30 ✓
	AC 11111	8.6	8.6	8.60 ✓ i need
	AC 5357	9.3	9.3	9.30 ✓
	AC 18249	9.7	9.8	9.75 -05, 05 ✓
	AC 14191	9.5	9.5	9.50 ✓
	AC 8760	9.4	9.3	9.35 -05, 05 ✓
	AC 2077	9.3	9.3	9.30 ✓
	AC 11302	9.9	9.9	9.90 ✓
	AC 5239	9.9	9.8	9.85 -05, 05 ✓

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1918phae.proj..694A

Friday Jan. 17, 1919.
2 Monday Jan. 20, 1919

R Piacentini

	Plates		Mean.	Ledger ch. P.P. ft.
AC 11734	10.0	9.9	9.95 ^{05,05}	✓
AC 4356	9.6	9.6	9.60	✓
AC 12322	9.5	9.7	9.60 ^{10,10}	✓
AC 19774	9.0	8.8	8.90 ^{10,10}	✓
AC 15954	9.2	9.2	9.20	✓
AC 3168	10.2	10.2	10.20	✓
AC 2188	9.0	8.8	8.90 ^{10,10}	✓
AC 12809	9.9	9.9	9.90	✓
AC 1696	9.7	9.8	9.75 ^{05,05}	✓
AC 2684	9.7	9.6	9.65 ^{05,05}	✓
AC 13451	9.6	9.5	9.55 ^{05,05}	✓
AC 2141	9.1	8.9	9.00 ^{10,10}	✓
AC 13233	8.9	8.8	8.85 ^{05,05}	✓
AC 14745	9.3	9.1	9.20 ^{10,10}	✓
AC 12528	9.6	9.6	9.60	✓
AC 2751	8.8	8.6	8.70 ^{10,10}	✓ e'med
AC 919	9.9	10.0	9.95 ^{05,05}	✓
AC 11962	9.7	9.7	9.70	✓
AC 7769	9.7	9.6	9.65 ^{05,05}	✓
AC 3060	9.1	9.0	9.05 ^{05,05}	✓
AC 15449	9.2	9.1	9.15 ^{05,05}	✓
AC 8682	9.6	9.6	9.60	✓
AC 12379	8.9	9.2	9.05 ^{15,15}	✓
AC 2085	10.0	9.7	9.85 ^{15,15}	✓
AC 9031	9.7	9.5	9.60 $^{R\ 10,10}$	✓ Bk 6:20 Adopt 9:35

9:00
10:10

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Saturday Jan. 18, 1919

Monday Jan. 20, 1919

R R Lacerdae

Judges on L.L.St.

		Plates Trimmed		Mean	
9:20	AC 12179	9.5	9.2	9.35 ^{15,15}	✓
10:25	AC 2019	9.9	10.0	9.95 ^{05,05}	✓
	AC 10013	def. impl.			
	AC 9065	9.2	9.2	9.20	✓
	AC 10948	9.2	9.0	9.10 ^{10,10}	✓
	AC 9939	9.0	9.3	9.16 ^{15,15}	✓
	AC 11291	9.0	9.0	9.00	✓
	AC 13526	9.2	8.9	9.05 ^{15,15}	✓
	AC 10852	8.8	8.6	8.70 ^{10,10}	✓ e'used
	AC 9168	9.9	9.5	9.70 ^{20,20}	✓
	AC 862	8.6	8.8	8.70 ^{10,10}	✓ e'used
	AC 14549	9.4	9.2	9.30 ^{10,10}	✓
	AC 11033	9.0	9.0	9.00	✓
	AC 2777	9.6	9.7	9.65 ^{05,05}	✓
	AC 12007	9.7	9.7	9.70	✓
	AC 4524	9.1	9.0	9.05 ^{05,05}	✓
	AC 7252	9.7	9.5	9.60 ^{10,10}	✓
	AC 11190	9.9	9.8	9.85 ^{05,05}	✓
	AC 14702	9.2	9.2	9.20	✓
	AC 12674	9.9	9.7	9.80 ^{10,10}	✓
	AC 7005	9.5	9.5	9.50	✓
	AC 11100	9.6	9.4	9.50 ^{10,10}	✓
	AC 6866	9.6	9.6	9.60	✓
	AC 15529	9.3	9.2	9.25 ^{05,05}	✓
	AC 6635	9.1	8.9	9.00 ^{10,10}	✓

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1918phae.proj.694A

Saturday Jan. 18, 1919
Monday Jan. 20, 1919

R R Laceitae

	Plates measured		Mean Ludgen & L.S.H.
AC 12558	8.7	8.9	8.90 ✓
AC 6046	9.8?	9.8	9.80 ✓
AC 14483	9.3	9.6	9.45 ±.15, .15 ✓
AC 5096	9.2	9.1	9.15 ±.05, .05 ✓
AC 13549	9.4	9.3	9.35 ±.05, .05 ✓
AC 5476	9.6	9.7	9.65 ±.05, .05 ✓
AC 15718	9.7	9.6	9.65 ±.05, .05 ✓
AC 6479	9.2	9.2	9.20 ✓
AC 12703	9.7	9.4	9.55 ±.15, .15 ✓
AC 16850	8.9	8.9	8.90 ✓
AC 13413	9.9	9.9	9.90 ✓
AC 5640	8.9	8.8	8.85 ±.05, .05 ✓
AC 14284	9.5	9.3	9.40 ±.10, .10 ✓
AC 19573	9.3	9.2	9.25 ±.05, .05 ✓
AC 9202	9.7	9.6	9.65 ±.05, .05 ✓
AC 13642	9.0	8.9	8.95 ±.05, .05 ✓
AC 5780	9.5	9.3	9.40 ±.10, .10 ✓
AC 12663	9.6	9.6	9.60 ✓
AC 5503	9.7	9.7	9.70 ✓
AC 5155	9.2	9.3	9.25 ±.05, .05 ✓
AC 2650	9.8	9.7	9.75 ±.05, .05 ✓
AC 5386	8.8	8.6	8.70 ±.10, .10 ✓ ~~used~~
AC 12543	9.6	9.7	9.65 ±.05, .05 ✓
AC 6501	9.6	9.6	9.60 ✓ AcBk. 6:201 adopt 9.6?
AC 8814	9.0	9.0	9.00 ✓

11:00

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Saturday Jan. 18, 1919
Monday Jan. 20, 1919
R R Lacertae

Mean Ledger of L.P.M.

1:55	AC 5158	9.0	9.8	8.90	^{10,10} ✓
	AC 12611	9.7	9.6	9.65	^{05,05} ✓
	AC 1996	10.2	10.0	10.10	^{10,10} ✓
	AC 4286	9.7	9.7	9.70	✓
	AC 11724	9.7	9.7	9.70	✓
	AC 3223	9.5	9.4	9.45	^{05,05} ✓
	AC 1883	9.7	9.5	9.60	^{10,10} ✓
	AC 11092	9.0	9.0	9.00	✓
	AC 11921	8.6	8.6	8.60	✓ e'ured
	AC 656	10.2	10.1	10.15	^{05,05} ✓
	AC 3078	9.7	9.7	9.80	^{10,10} ✓
	AC 1971	9.7	9.7	9.70	✓
	AC 8620	9.8	9.8	9.80	✓
	AC 11256	9.6	9.5	9.55	^{05,05} ✓
	AC 3866	8.9	8.8	8.85	^{05,05} ✓
	AC 4335	9.5	9.3	9.40	^{10,10} ✓
	AC 6645	9.7	9.7	9.70	✓
	AC 13312	9.6	9.6	9.60	✓
	AC 5745	9.9	9.8	9.85	^{05,05} ✓
	AC 3127	~~9.7~~ 10.1	9.9	10.00	^{10,10} ✓
	AC 12622	9.0	9.0	9.00	✓
	AC 6681	8.9	8.9	8.90	✓
	AC 7145	9.3	9.2	9.25	^{05,05} ✓
	AC 6744	9.9	9.6	9.75	^{05,15} ✓
	AC 7227	8.6	8.6	8.60	✓ e'ured

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1918phae.proj..694A

Saturday Jan. 18, 1919
Monday Jan. 20, 1919
R R Sacerdote

				Mean Ledger ch. f. & st.
	AC 7712	8.9	8.9	8.90 ✓
	AC 20349	9.6	9.4	9.50 10,10 ✓
10:35	AC 19839	9.6	9.5	9.55 05,05 ✓
2:15				

Thursday Feb. 13, 1919

				Mean Ledger ch. f. & st.
11:20	I 21047	9.2	9.2	9.20 ✓
2:30	I 23500	9.2	9.3	9.25 0' ✓
	I 23521	9.4	9.2	9.30 1' ✓
	I 21519	8.9	8.8	8.85 1' ✓
	I 9352	9.6	9.5	9.55 1' ✓
	I 11872	9.9	10.0	9.95 0' ✓
	I 21564	10.0	10.0	10.00 ✓
	I 11465	9.9	9.6	9.75 2' ✓
	I 16272	9.6	9.9	9.75 1' 2 ✓
	I 18744	10.0	9.7	9.85 2' ✓
	I 15890	8.8	8.8	8.80 ✓
	I 6886	10.0	10.2	10.10 1' ✓
	I 7448	10.0	9.9	9.95 1' ✓
	I 9006	9.9	10.0	9.95 0' ✓
	I 7244	9.9	10.0	9.95 R 0' ✓ see Bk 6: 201 Adopt 9.5
	I 9328	9.1	9.0	9.05 1' ✓
	I 9444	9.3	9.4	9.35 R 0' ✓ " " " " " 9.1
	I 9728	Def.	Def.	
	I 9009	9.2	9.2	9.20 ✓
	I 7153	9.1	8.9	9.00 1' ✓
	I 12062	9.9	9.9	9.90 ✓

11:40
2:50

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Tuesday Jan. 21, 1919

Scale N

W Cephei

GC 20 ~~474~~ 471

		Mean	Diff	Curv.	Mag.
9:55					
	a, B 8.3				
d	8.7	8.3	8.30	.86	
	8.4				
d'	8.8	8.6	8.50	.84	9.34
	8.4				
f'	8.8	8.6	8.50	.81	
	8.8				
g	9.2	8.8	8.80	.91	
	8.6				
g'	9.0	8.8	8.70		.81 9.51
h		9.2		.73	.
h'	~~9.6~~	9.2			.78 10.38
k	X	9.5		.95	
l		9.8		.86	

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Tuesday Jan. 21, 1919.

Scale N

W Cephei

AC 20150

	Se. B	dC	Mean	Diff.	Curv	Mag.
	8.2					
d	8.6	8.3	8.25	.91		
	8.5					
d'	8.9	8.5	8.50		.80	9.30
	8.5					
f'	8.9	8.6	8.56	.76		
	9.0					
g	9.4	8.9	8.95	.76		
g'		9.1			.73	9.83
h		9.3		.63		
h'		9.7			.77	10.47
k		9.7 5		.76		
l		9.8		.86		

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Tuesday Jan. 21, 1919

Scale N

W Cephei.

At 20 54 4

	Sc. B	Sc. C	Mean.	diff.	Curve	Mag.
	7.7					
d	8.1	7.8	7.75	1.41		
	7.9					
d'	8.3	8.0	7.96		1.38	9.33
	7.9					
f	8.3	8.0	7.95	1.36		
	8.2					
g	8.6	8.4	8.30	1.41		
	8.5					
g'	8.9	8.6	8.56		1.44	9.99
	8.4					
h	8.8	8.6	8.50	1.43		
	8.8					
h'	9.2	9.0	8.90		1.47	10.37
	8.6					
k	9.0	8.7	8.65	1.60		
l		9.4		1.26		

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Tuesday Jan. 21, 1919

Scale N

W Cephei

RC 16600

	Sc. B	Sc. C	Mean.	Diff.	Curve.	Mag.
	7.5					
d	7.9	7.5	7.68	1.66		
	8.1					
d'	8.5	8.0	8.05		1.36	9.41
	8.0					
f'	8.4	7.9	7.95	1.36		
	8.5					
g	8.9	8.6	8.55	1.16		
	8.8					
g'	9.2	8.8	8.80		1.25	10.05
	8.6					
h	9.0	8.7	8.65	1.28		
h'		9.2			1.28	10.48
k		8.9		1.35		
l		9.4		1.26		

10:50

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Wednesday Jan. 22, 1919
Saturday Jan. 25, 1919
W Cephei

~~AC 17839~~.
MC 3969

Ledger A. R. S. H.

		Plates		Mean.
2:00	AC 5789	9.2	9.1	9.15 05 05 ✓
3:50	AC 15812	9.0	9.2	9.10 10 10 ✓
See p. 32 - Same	AC 9060	9.2	9.0	9.10 10 10 ✓
Sequence as for	AC 7262	9.0	9.1	9.05 05, 05 ✓
Z Sagittae with	AC 6551	9.0	9.0	9.00 ✓
these additional	AC 4572	9.2	9.2	9.20 ✓
stars -	AC 15803	8.8	9.0	8.90 10 10 ✓
Drs. Mag.	AC 14621	8.9	8.9	8.90 ✓
d' d^2 9.3	AC 19053	9.3	9.2	9.25 05 05 ✓
g' g' 9.8	AC 16821	9.1	9.1	9.10 ✓
h' K' 10.4	AC 10950	9.1	9.0	9.05 05 05 ✓
b b $8.\frac{6}{9}$	AC 7171	9.2	9.2	9.20 ✓
	AC 17285	9.2	9.2	9.20 ✓
red letters indicate	AC 14438	9.2	9.2	9.20 ✓
published designation.	AC 1765	9.0	9.1	9.05 05 05 ✓
M.D.A. Mar. 30, '21	AC 8608	9.1	9.2	9.15 05 05 ✓
	AC 10859	9.1	9.2	9.15 05, 05 ✓
	AC 18851	9.3	9.3	9.30 ✓
	AC 12546	9.2	9.1	9.15 05 05 ✓
	AC 7696	9.2	9.2	9.20 ✓
	AC 15822	8.9	9.0	8.95 05, 05 ✓
	AC 11137	9.2	9.2	9.20 ✓
	AC 19232	9.3	9.3	9.30 ✓
	AC 13698	8.8	8.9	8.85 05, 05 ✓
	AC 6815	9.1	9.1	9.10 ✓

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1918phae..proj..694A

Wednesday Jan. 24, 1917.
Saturday Jan. 25, 1919
W Cephei

			Mean. Rudgwick L.R.H.	
	AC 15506	9.0 9.0	9.00	✓
	AC 5520	8.9 9.0	8.95 .05 .05	✓
	AC 18548	9.3 9.3	9.30	✓
	AC 14567	9.0 9.1	9.05 .05, .05	✓
	AC 4711	9.25 9.2	9.28 .03, .02	✓
	AC 10905	9.2 9.2	9.20	✓
	AC 5280	9.2 9.2	9.20	✓
	AC 15607	9.1 9.0	9.05 .05 .05	✓
	AC 4173	8.8 8.8	8.80	✓
	AC 13364	9.1 9.0	9.05 .05, .05	✓
	AC 20225	9.3 9.2	9.25 .05, .05	✓
	AC 5015	9.2 9.2	9.20	✓
	AC 10874	9.1 9.1	9.10	✓
	AC 4618	9.2 9.2	9.20	✓
	AC 19603	9.3 9.3	9.30	✓
	AC 2153	8.8 8.8	8.80	✓
7h	AC 14250	9.2 9.2	9.20	✓
	AC 17791	9.3 9.2	9.25 .05 .05	✓
	AC 3916	9.1 9.0	9.05 .05 .05	✓
	AC 13326	9.0 9.0	9.00	✓
	AC 7646	9.0 9.0	9.00	✓
	AC 5157	9.2 9.2	9.20	✓
	AC 14519	9.1 8.9	9.00 .10, .10	✓
	AC 20597	9.2 9.3	9.25 .05, .05	✓
	AC 6898	9.2 9.1	9.15 .05 .05	✓

2:50

3:25

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1918phae.proj..694A

Thursday Jan. 23, 1919
Saturday Jan. 25, 1919

W Cephei

		Plates	Turned	Mean	Ledger dr. p. 134.
11:35	AC 3289	9.1	9.0	9.05	.05 .05 ✓
2:15	AC 16142	9.2	9.2	9.20	✓
	AC 12326	8.6	8.8	8.70	.10 .10 ✓
	AC 5569	9.2	9.0	9.10	.10 .10 ✓
	AC 4128	8.9	8.9	8.90	✓
	AC 17812	9.2	9.1	9.15	.05 .05 ✓
	AC 7307	9.0	9.0	9.00	✓
	AC 2063	8.7	8.8	8.75	.05 .05 ✓
	AC 11077	9.1	9.2	9.15	.05 .05 ✓
	AC 18042	9.3	9.2	9.25	.05 .05 ✓
	AC 3204	8.9	8.9	8.90	✓
	AC 7096	9.2	9.2	9.20	✓
	AC 12391	8.9	8.9	8.90	✓
	AC 19273	9.3	9.3	9.30	✓
	AC 8637	9.1	9.2	9.15	.05 .05 ✓
	AC 2964	8.8	9.0	8.90	.10 .10 ✓
	AC 6932	9.2	9.1	9.15	.05 .05 ✓
	AC 11111	9.2	9.0	9.10	.10 .10 ✓
	AC 5357	9.1	9.0	9.05	.05 .05 ✓
	AC 18249	9.3	9.3	9.30	✓
	AC 14191	9.25	9.2	9.22	.03 .02 ✓
	AC 8760	9.3	9.2	9.25	.05 .05 ✓
	AC 2077	8.6	8.8	8.70	.10 .10 ✓
	AC 11302	9.2	9.2	9.20	✓
	AC 5239	9.2	9.2	9.20	✓

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1918phae.proj..694A

Thursday Jan. 23, 1919.
Saturday Jan. 25, 1919
W Ceph ·

	Clark	Tunks	Mean	Ledger ch. A.R.H.
AC 11734	9.2	9.2	9.20	✓
AC 4355	8.9	8.9	8.90	✓
AC 12322	9.2	9.2	9.20	✓
AC 19774	9.3	9.3	9.30	✓
AC 15957	9.1	9.0	9.05	05 05 ✓
AC 3168	8.8	9.0	8.90	10 10 ✓
AC 2188	8.5	8.9	8.70	20 20 ✓
AC 12809	9.2	9.2	9.20	✓
AC 1696	9.2	9.1	9.15	05 05 ✓
AC 2684	9.0	8.9	8.95	05 05 ✓
AC 13457	9.0	9.0	9.00	✓
AC 2141	8.8	8.8	8.80	✓
AC 13533	9.2	9.3	9.25	05 05 ✓
AC 14745	8.9	8.9	8.90	✓
AC 12588	9.1	9.1	9.10	✓
AC 2757	9.2	9.0	9.10	10 10 ✓
AC 919	8.6	8.7	8.65	05 05 ✓
AC 11962	9.0	9.0	9.00	✓
AC 7769	9.0	9.0	9.00	✓
AC 3060	9.0	9.0	9.00	✓
AC 15449	9.2	9.1	9.15	05 05 ✓
AC 8682	9.2	9.2	9.20	✓
AC 12379	8.7	8.8	8.75	05 05 ✓
AC 7085	8.6	8.7	8.65	05 05 ✓
AC 9031	9.2	9.1	9.15	05 05 ✓

12:05
3:45

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1918phae.proj..694A

Thursday Jan. 23, 1919
Saturday Jan. 25, 1919

W Cephei

		Photo	Estimated	Mean.
12:10	AC 12179	9.1	9.0	9.05 05 05 ✓
8:30	AC 2019	8.7	8.9	8.80 10 10 ✓
	AC 10013	8.7	8.8	8.75 05 05 ✓
	AC 9065	9.2	9.0	9.10 10 10 ✓
	AC 10948	9.1	9.0	9.05 05 05 ✓
	AC 9939	8.9	8.7	8.90 ✓
	AC 11291	9.0	9.1	9.05 05 05 ✓
	AC 13526	8.8	8.7	8.85 05 05 ✓
	AC 10852	9.2	9.0	9.10 10 10 ✓
	AC 9168	9.2	9.0	9.10 10 10 ✓
	AC 862	8.5	8.6	8.55 05 05 ?✓ p.c.
	AC 14549	9.2	9.2	9.20 ✓
	AC 11633	9.1	9.1	9.10 ✓
	AC 2797	9.0	9.0	9.00 ✓
	AC 12007	8.8	8.9	8.85 05 05 ✓
	AC #524	9.2	9.2	9.20 ✓
	AC 7252	9.25	9.2	9.22 03 02 ✓
	AC 11190	9.2	9.1	9.15 05 05 ✓
	AC 14762	8.8	8.7	8.85 05 05 ✓
	AC 12674	9.25	9.0	9.12 13 12 ✓
	AC 7805	9.0	9.1	9.05 05 05 ✓
	AC 11100	9.0	9.0	9.00 ✓
	AC 6866	9.2	9.0	9.10 10 10 ✓
	AC 15529	9.2	9.1	9.15 05 05 ✓
	AC 6635	9.1	9.0	9.05 05 05 ✓

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Thursday Jan. 23, 1919

W Cephei

	Plates	Turned	Mean	Ledger in A.S.H.
AC 12558	9.2	9.2	9.20	✓
AC 6046	9.2	9.2	9.20	✓
AC 14483	9.1	9.1	9.10	✓
AC 5096	9.2	9.25	9.22	02 03 ✓
AC 13549	8.7	8.9	8.90	✓
AC 5476	8.8	8.9	8.85	05 05 ✓
AC 15718	9.0	9.0	9.00	✓
AC 6479	9.1	9.2	9.15	05 05 ✓
AC 12703	9.3	9.2	9.25	05 05 ✓
AC 16858	9.2	9.0	9.10	10 10 ✓
AC 13413	9.0	9.0	9.00	✓
AC 5640	9.1	9.1	9.10	✓
AC 14584	9.2	9.2	9.20	✓
AC 19573	9.25	9.3	9.28	03 02 ✓
AC 9202	8.9	9.0	8.95	05 05 ✓
AC 13642	8.6	8.7	8.65	05 05 ✓
AC 5780	9.2	9.1	9.15	05, 05 ✓
AC 12663	9.3	9.2	9.25	05 05 ✓
AC 5503	9.0	9.2	9.10	10 10 ✓
AC 5785	9.2	9.1	9.15	05, 05 ✓
AC 6650	9.0	9.2	9.00	✓
AC 6386	9.0	9.0	9.00	✓
AC 12543	9.2	9.2	9.20	✓
AC 6631	9.1	9.2	9.15	05 05 ✓
AC 8814	9.3	9.1	9.20	10, 10 ✓

H;00

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Thursday Jan. 23, 1919
Friday Jan. 24, 1919

W Cephei
Photog. Surveys

				Mean	Ledger d. RA. 31.
12:05	AC 5758	9.2	9.1	9.15	.05 .05 ✓
	AC 12611	9.2	9.3	9.25	.05 .05 ✓
	AC 1996	8.7	8.9	8.80	.10 .10 ✓
	AC 4286	8.9	8.9	8.90	✓
	AC 11724	9.2	9.2	9.20	✓
	AC 3223	9.0	9.0	9.00	✓
	AC 1853	8.9	9.0	8.95	.05 .05 ✓
	AC 4092	8.7	8.7	8.70	✓
	AC 11521	9.1	9.0	9.05	.05 .05 ✓
	AC 656	8.8	8.9	8.85	.05 .05 ✓
	AC 3078	8.9	9.0	8.95	.05 .05 ✓
	AC 1971	8.8	8.8	8.80	✓
	AC 8620	9.2	9.2	9.20	✓
	AC 11255	9.2	9.2	9.20	✓
	AC 3866	9.0	9.0	9.00	✓
	AC 4335	8.9	8.9	8.90	✓
	AC 6645	9.2	9.2	9.20	✓
	AC 13312	9.1	9.1	9.10	✓
	AC 5745	9.2	9.2	9.20	✓
	AC 3127	8.9	9.0	8.95	.05 .05 ✓
	AC 13622	9.3	9.25	9.28	.02 .03 ✓
	AC 6681	9.2	9.2	9.20	✓
	AC 7145	9.2	9.1	9.15	.05 .05 ✓
	AC 6744	9.0	9.0	9.00	✓
	AC 7227	9.2	9.2	9.20	✓

12:25

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Thursday Jan. 23, 1919

W Cephei

			Mean Ledger ch. L.L.H.
AC 7712	9.1	9.0	9.05 05 05 ✓
AC 20349	9.3	9.3	9.30 ✓
AC 17839	9.2	9.2	9.20 ✓

12:50

Thursday Feb. 13, 1919 Ledger ch. L.L.H.
Saturday Feb. 15, 1919

3:00 ~~2:55~~	l 21047	9.1	9.0	9.05 10 ✓
9:05	l 23500	8.6	8.7	8.65 01 ✓
	l 9732	9.0	9.0	9.00 ✓
	l 23521	8.8	8.9	8.85 01 ✓
	l 9716	9.1	9.0	9.05 10 ✓
	l 21519	9.1	8.9	9.00 1 1 ✓
	l 7449	9.2	9.0	9.10 1 1 ✓
	l 9352	8.7	8.8	8.75 01 ✓
	l 11,465	8.8	8.9	8.85 01 ✓
	l 12021	8.9	9.0	8.95 01 ✓
	l 18744	9.1	9.0	9.05 10 ✓
	l 10,672	9.2	9.1	9.15 10 ✓
	l 15890	9.2	9.0	9.10 1 1 ✓
	l 10576	9.2	9.0	9.10 1 1 ✓
	l 7448	9.2	9.2	9.20 ✓
	l 11628	9.1	8.9	9.00 1 1 ✓
	l 9328	8.8	8.8	8.80 ✓
	l 11838	9.2	9.0	9.10 1 1 ✓
	l 12062	9.2	9.0	9.10 1 1 ✓
	l 11457	9.0	9.0	9.00 ✓
3:25	l 11592	8.9	8.9	8.90 ✓
9:20				

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1918phae.proj..694A

Wednesday Jan. 29, 1919

Scale N

Vault X Lacertae.

AC 20471 Additional stars in sequence.

2:20

	Sc. A	Sc. B	Sc. C	Mean.	Diff.	Curr.	Mag.
		7.2					8
a'		7.6	7.2	7.20		0.98	8.18
		7.6				1	
c'		8.0	7.7	7.65		1.68	8.83
		7.8					
c^2		8.2	8.0	7.90		1.27	9.17
		8.2					
f'		8.6	8.4	8.30		1.34	9.64
		8.3					
f^2		8.7	8.6	8.45		1.35	9.80
f							
		7.0					
a		7.4	7.0	7.00	.75		
		8.6 7.0					
b		8.9	8.8	8.70	1.40		
		7.3					
c		7.7	7.4	7.35	1.05 3		
		8.1					
d		8.5	8.8 2	8.15	1.11		
		8.8					
e		9.2	8.8	8.80	1.39		
		7.9					
f		8.3	8.0	7.95	1.48		
		8.6					
g		9.0	8.7	8.65	1.44		
		9.0					
h		9.4	9.2	9.10	1.38		
		8.8					
k		9.2	8.9	8.85	1.29		
l		9.6	9.6		1.10		

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1918phae.proj..694A

Wednesday Jan. 29, 1919

Scale N

Var. d Lacertae

AC 16600 Additional stars in Sequence.

	De B	De. C	Mean	Diff.	Curve	Mag.
	6.0					
a'	6.4	5.9	5.95		1.97	7.92
c'	6.9 7.3	6.8 7.0	6.85		1.84	8.69
c²	7.3 7.7	7.4	7.35		1.76	9.11
f'	8.15 8.7	8.0	8.05		1.62	9.67
f²	8.4 8.8	8.5	8.45		1.50	9.95
	5.7					
a	6.1	5.7	6.70	2.05		
b	8.4 8.8	8.7	8.55	1.55		
c	6.6 7.0	6.7	6.65	1.73		
d	7.6 7.8	7.8	7.70	1.56		
e	8.5 8.9	8.7	8.60	1.59		
f	7.4 7.8	7.4	7.40	2.03		
g	8.6 9.0	8.8	8.70	1.39		
h		9.3		1.18		
k	8.9 9.3	9.0	8.95	1.19		
l		9.5		1.20		

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Wednesday Jan. 29, 1919

to R. V and X Lacertae

AC 20150 Additional Stars in Sequence

	Sc B	Sc D	C Mean	Diff. Curve	Mag.
	7.3				
a'	7.8	7.3	7.30	.74	8.04
	7.8				
c'	8.2	~~8.4~~ 7.9	7.85	.97	8.82
	8.1				
c2	8.5	8.3	8.20	1.10	9.30
	8.4				
f'	8.8	8.2	8.50	1.21	9.71
	8.6				
f2	9.0	8.7	8.65	1.25	9.90
	7.0				
a	7.4	7.0	7.00	.75	
	8.8				
b	9.2	8.8	8.80	1.30	
	7.7				
c	8.1	7.7	7.70	.68	
	8.5	8.1			
d	8.8	8.2	8.15	1.11	
	9 8.9				
e	9.8	9.0	8.95	1.24	
	8.3				
f	8.7	8.4	8.35	1.08	
	8.4				
g	8.8	9.1	8.75	1.34	
h		9.6		0.88	
	8.8				
k	9.2	8.9	8.85	1.29	
l		9.8		0.90	

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Wednesday Jan. 29, 1919

Scale N

V and X Lacertae

AC 20544 Additional Stars in Sequence.

	B	B	Mean	Diff.	Curr	Mag.
	6.4					
a'	6.8	6.4	6.40		1.77	8.17
	7.0					
c'	7.4	6.9	6.95		1.90	8.85
	7.2					
c^2	7.6	7.2	7.20		1.94	9.14
	7.6					
f'	8.0	7.7	7.65		1.96	9.61
	8.2					
f^2	8.6	8.3	8.25		1.90	10.15
	6.1					
a	6.5	6.0	6.05		1.70	
	8.2					
b	8.6	8.2	8.20		1.90	
	6.6					
c	7.6	6.6	6.60		1.78	
	7.3					
d	7.7	7.3	7.30		1.96	
	8.4					
e	8.8	8.4	8.40		1.79	
	7.4					
f	7.8	7.4	7.40		2.03	
	8.2					
g	8.6	8.2	8.20		1.89	
	8.6					
h	9.0	8.7	8.65		1.83	
	8.4					
k	8.8	8.3	8.35		1.79	
l		8.9			1.80	

8:55

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1918phae.proj..694A

Thursday Jan. 30, 1919

MC 4356
MC 3969

V Lacertae

Mean Badger Ch 4

Bk 6:195

	12:15	AC 6898	10.0	9.9	9.95 .05 .05 ✓	
	2:10	AC 20599	9.8	10.1	9.95 .15 .15 ✓	
Mag. except for		AC 14519	10.2	10.0	10.10 .10 .10 ✓	
additional stars		AC 5127	8.7	8.6	8.65 .05 .05 ✓	
from Bk 9a:56		AC 7646	10.0	10.1	10.05 .05 .05 ✓	
Drs.	mag.	AC 13326	10.1	10.1	10.10 ✓	
a	7.8	AC 3916	9.8	10.0	9.90 .10 .10 ✓	
a'	8.1	AC 17791	8.6	8.8	8.70 .10 .10 ✓	8.85
b	10.1	AC 14270	10.1	10.1	10.10 ✓	
c	8.4	AC 2153	8.7	8.7	8.70 ✓	
c'	8.8	AC 19623	9.2	9.2	9.20 ✓	
c^2	9.2	AC 4618	10.0	10.0	10.00 ✓	
d	9.3					
e	10.2					
f	9.5	AC 10874	9.2	9.2	9.20 ✓	
f'	9.7	AC 5015	8.7	8.6	8.65 .05 .05 ✓	
g	10.1	AC 21225	9.1	9.2	9.15 .05 .05 ✓	
h	10.5	AC 13364	10.2	10.1	10.15 .05 .05 ✓	
k	10.1	AC 4172	9.9	9.8	9.85 .05 .05 ✓	
l	10.7	AC 15607	9.9	9.9	9.90 ✓	
m	11.0	AC 5080	8.7	8.8	8.75 .05 .05 ✓	
n	11.5	AC 10905	9.6	9.5	9.55 .05 .05 ✓	
o	12.0	AC 4711	9.9	9.9	9.90 ✓	
p	13.1	AC 14567	10.0	10.0	10.00 ✓	
q	13.5	AC 18548	9.3	9.4	9.35 .05 .05 ✓	
r	14.2	AC 5520	9.9	9.8	9.85 .05 .05 ✓	
s	14.4	AC 15506	8.7	8.7	8.70 ✓	
t	14.8					
u	15.1					

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1919phae.proj..094A

Thursday Jan. 30, 1919
Friday Jan. 31, 1919
V Lacertae

	Plates Timed	Means	Ledger dk	Bk 6:195
AC 6815	10.2 10.1	10.15 $^{-05}_{-05}$	✓	
AC 13698	9.9 9.9	9.90	✓	
AC 19232	10.0 10.0	10.00	✓	
AC 11137	9.6 9.6	9.60	✓	
AC 15822	10.1 10.1	10.10	✓	
AC 7696	10.0 9.9	9.95 $^{-05}_{-05}$	✓	
AC 12546	9.8 9.9	9.85 $^{-05}_{-05}$	✓	
AC 18881	10.0 10.0	10.00	✓	
AC 10859	10.1 10.1	10.10	✓	
AC 8608	9.8 9.8	9.80	✓	
AC 1765	8.4 8.4	8.40	✓	8.60
AC 14438	9.5 9.4	9.45 $^{-05}_{-05}$	✓	
AC 17285	9.0 9.3	9.15 $^{-15}_{-15}$	✓	
AC 7171	10.2 10.1	10.15 $^{-05}_{-05}$	✓	
AC 10950	9.4 9.4	9.40	✓	
AC 16821	10.0 10.0	10.00	✓	
AC 19053	9.2 9.2	9.20	✓	
AC 14621	9.9 9.9	9.90	✓	
AC 15803	9.7 9.7	9.70	✓	
AC 4572	9.0 9.1	9.05 $^{-05}_{-05}$	✓	
AC 6551	10.2 10.1	10.15 $^{-05}_{-05}$	✓	
AC 7262	10.2 10.2	10.20	✓	
AC 9060	10.1 10.0	10.05 $^{-05}_{-05}$	✓	
AC 15812	10.0 10.0	10.00	✓	
AC 5789	9.7 9.6	9.65 $^{-05}_{-05}$	✓	

1:00
8:50

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Thursday Jan. 30, 1919
Saturday. ~~Feb.~~ 1, 1919

V Lacertae

				Mean Ledger ch. ft	
1:55	AC 9031	9.9	9.9	9.90 ✓	
9:55	AC 2085	10.1	10.1	10.10 ✓	
	AC 12379	9.2	9.1	9.15 .05 .05 ✓	
	AC 8682	10.1	10.0	10.05 .05 .05 ✓	
	AC 15449	9.6	9.6	9.60 ✓	
	AC 3060	10.0	9.9	9.95 .05 .05 ✓	
	AC 7769	9.9	9.7	9.80 .10 .10 ✓	
	AC 11962	9.2	9.2	9.20 ✓	
	AC 919	9.7	9.5	9.60 .10 .10 ✓	
	AC 2751	10.0	10.0	10.00 ✓	
	AC 12528	8.6	8.6	8.60 ✓	
	AC 14745	9.9	9.8	9.85 .05 .05 ✓	
	AC 13233	10.1	10.1	10.10 ✓	ft
	AC 2141	10.0	10.1	10.05 .05 .05 ✓	
	AC 13457	10.0	10.0	10.00 ✓	
	AC 2684	10.1	9.9	10.00 .10 .10 ✓	
	AC 1696	10.0	9.8	9.90 .10 .10 ✓	
	AC 12809	9.9	9.8	9.85 .05 .05 ✓	
	AC 2188	8.7	8.6	8.65 .05 .05 ✓	
	AC 3168	8.6	8.7	8.65 .05 .05 ✓	
	AC 15954	10.0	9.8	9.90 .10 .10 ✓	
	AC 19774	9.9	10.0	9.95 .05 .05 ✓	
	AC 12322	8.5	8.5	8.50 ✓	
	AC 4355	8.7	9.0	8.85 .15 .15 ✓	f.
	AC 11734	9.9	9.9	9.90 ✓	

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1918phae.proj..694A

Thursday Jan. 30, 1919
Saturday Feb. 1, 1919

V Lacertae & ff.

Mean Ledger 6:155

AC 5239	8.8	9.0	8.90 ✓
AC 11302	10.0	10.0	10.00 ✓
AC 2077	8.6	8.6	8.60 ✓
AC 8760	8.6	8.6	8.60 ✓
AC 14191	10.1	10.1	10.10 ✓
AC 18249	9.9	10.0	9.95 ✓
AC 5357	9.9	9.8	9.85 ✓
AC 11111	8.8	8.8	8.80 ✓
AC 6933	10.1	10.1	10.10 ✓
AC 2964	9.9	9.7	9.80 ✓
AC 8637	10.0	9.9	9.95 ✓
AC 19273	8.7	8.7	8.70 ✓
AC 12391	9.7	9.7	9.70 ✓
AC 7096	10.1	10.1	10.10 ✓
AC 3204	10.0	10.0	10.00 ✓
AC 18042	10.2	10.1	10.15 ✓
AC 11077	10.0	10.1	10.05 ✓
AC 2063	9.2	9.3	9.25 ✓
AC 7307	8.7	8.6	8.65 ✓
AC 17812	8.6	8.4	8.50 ✓
AC 4128	8.8	8.6	8.70 ✓
AC 5969	9.9	9.9	9.90 ✓
AC 12326	9.4	9.4	9.40 ✓
AC 16142	9.2	9.2	9.20 ✓
AC 3289	9.7	9.5	9.60 ✓

8.65

2:40

11:35

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1918phae.proj..694A

Thursday Jan. 30, 1919
Saturday Feb. 1, 1919

V Lacertae *

				Mean Ledger	Bk 6:195
2:40	AC 17839	9.1	9.2	9.15 05 05 ✓	
11:35	AC 20049	10.1	10.1	10.10 ✓	9.95
	AC 7712	8.7	8.5	8.60 10 10 ✓	
	AC 7227	9.3	9.4	9.35 05 05 ✓	
	AC 6744	9.8	9.8	9.80 ✓	
	AC 7145	9.9	9.9	9.90 ✓	
	AC 6681	9.5	9.1	9.30 20 20 ✓	
	AC 12622	9.7	9.5	9.60 10 10 ✓	9.70
	AC 3127	10.0	10.0	10.00 ✓	
	AC 5745	10.1	10.0	10.05 05 05 ✓	
	AC 13312	10.0	9.9	9.95 05 05 ✓	
	AC 6645	9.6	9.4	9.50 10 10 ✓	
	AC 4335	10.0	10.0	10.00 ✓	
	AC 3866	9.9	9.7	9.80 10 10 ✓	
	AC 11255	9.0	9.0	9.00 ✓	
	AC 8620	10.1	10.1	10.10 ✓	
	AC 1971	10.2	10.1	10.15 05 05 ✓	
	AC 3678	10.1	10.0	10.05 05 05 ✓	
	AC 656	10.0	10.0	10.00 ✓	
	AC 11921	10.1	10.1	10.10 ✓	
	AC 4092	8.6	8.7	8.65 05 05 ✓	
	AC 1883	10.1	10.1	10.10 ✓	
	AC 3233	10.0	9.9	9.95 05 05 ✓	
	AC 11724	10.1	10.1	10.10 ✓	
	AC 4286	10.0	10.0	10.00 ✓	
3:00					
11:55					

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1918phae.proj..694A

Friday Jan. 31, 1919

Saturday Feb. 1, 1919

V Lacertae

			Mean. Ledger-sheet		6!195
11:15	AC 1996	9.4	9.3	9.35 05 05 ✓	
11:20	AC 12611	8.7	8.9	8.80 10 10 ✓	
	AC 5158	10.1	10.1	10.10 ✓	
	AC 8814	10.1	10.1	10.10 ✓	
	AC 6501	9.9	10.0	9.95 05 05 ✓	9.90
	AC 12543	9.2	9.2	9.20 ✓	
	AC 5386	9.2	9.0	9.10 10 10 ✓	
	AC 2650	8.6	8.8	8.70 10 10 ✓	
	AC 5185	10.1	10.1	10.10 ✓	
	AC 5503	10.2	10.1	10.15 05 05 ✓	
	AC 12663	9.8	9.7	9.75 05 05 ✓	
	AC 5780	10.1	10.1	10.10 ✓	
	AC 13642	8.5	8.6	8.55 05 05 ✓	
	AC 9202	9.3	9.6	9.45 15 15 ✓	
	AC 19573	10.1	10.1	10.10 ✓	
	AC 14284	9.6	9.4	9.50 10 10 ✓	
	AC 5640	9.2	8.8	9.00 20 20 ✓	
	AC 13413	9.4	9.4	9.40 ✓	
	AC 16850	8.7	9.2	9.05 15 15 ✓	9.20
	AC 12703	9.4	9.2	9.30 10 10 ✓	
	AC 6479	10.1	10.1	10.10 ✓	
	AC 15718	10.0	10.0	10.00 ✓	
	AC 5476	9.7	9.5	9.60 10 10 ✓	
	AC 13549	8.6	8.6	8.60 ✓	
	AC 5096	9.5	9.7	9.60 10 10 ✓	
11:35					
11:35					

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Friday Jan. 31, 1919.
Saturday Feb. 1, 1919

V Lacertae

Mean ledger adopted BD 6:195

11:35	AC 14483	10.0	10.0	10.00 ✓
11:00	AC 6046	10.1	10.1	10.10 ✓ p.
	AC 12558	8.7	8.7	8.70 ✓
	AC 6635	9.1	8.8	8.95 15 15 ✓
	AC 15529	9.7	9.7	9.70 ✓
	AC 6866	9.0	9.2	9.10 10 10 ✓
	AC 11100	9.9	9.7	9.80 10 10 ✓
	AC 7005	10.1	10.1	10.10 ✓
	AC 12674	10.1	10.1	10.10 ✓
	AC 14702	9.7	9.9	9.80 10 10 ✓
	AC 11190	9.9	9.9	9.90 ✓
	AC 7252	9.3	9.4	9.35 05 05 ✓
	AC 4524	10.1	10.1	10.10 ✓
	AC 12007	10.1	10.1	10.10 ✓ f. p. pl.
	AC 2777	10.0	10.0	10.00 ✓
	AC 11033	8.8	9.0	8.90 10 10 ✓
	AC 14549	10.2	10.1	10.15 05 05 ✓
	AC 862	8.7	8.8	8.75 05 05 ✓
	AC 9168	10.1	10.1	10.10 ✓
	AC 10852	8.9	9.0	8.95 05 05 ✓
	AC 13526	9.2	9.2	9.20 ✓
	AC 11291	9.4	9.4	9.40 ✓
	AC 9939	9.4	9.6	9.50 10 10 ✓ p.
	AC 10948	9.6	9.7	9.65 05 05 ✓
	AC 9065	8.5	8.6	8.55 05 05 ✓
	AC 10013	10.1	10.1	10.10 ✓
	AC 2119	10.1	10.1	10.10 ✓
11:55	AC 12179	9.2	9.2	9.20 ✓
11:20				

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1918phae.proj..694A

Friday Jan. 31. 1919.

22 4152 – Lacertae.

Observed on several plates and found to vary very slightly. About 8.0 mag. Learn more later.

AC 17839
AC 6898
AC 20597
AC 14519
AC 5127
AC 7646
AC 13326
AC 3916
AC 17791
AC 14270
AC 2153
AC 19623
AC 4618
AC 10874
AC 5015
AC 20 225
AC 13364
AC 4172

Found to be $\overset{>}{\alpha}$ +52°3292 and $\overset{<}{\alpha}$ 52°3280 in all plates examined.

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1918phae.proj..694A

Monday Feb. 3, 1919

Thursday Feb. 6, 1919

See Bk. 6:200

χ Lacertae

				Mean.	Lofgren Ltr.	Bk. 6:200
2:20	AC 13698	9.5	9.2	9.35		
9:05	AC 17285	8.8	8.8	8.80	✓	
Sep. 76 - Same as χ Lacertae sequence.	AC 14438	8.5	8.7	8.60	✓	
	AC 1765	9.4	9.2	9.30	✓	
	AC 8608	8.6	8.6	8.60	✓	
	AC 10859	9.6	9.6	9.60	✓	
	AC 18881	8.6	8.5	8.55	✓	
	AC 7696	9.5	9.6	9.55	✓	9.35
	AC 15822	9.2	9.2	9.20	✓	9.30
	AC 11137	9.3	9.3	9.30	✓	
	AC 19232	8.7	8.7	8.70	✓	
	AC 6815	9.5	9.3	9.40	✓	9.40
	AC 15506	8.8	8.8	8.80	✓	8.95
	AC 5520	9.6	9.5	9.55	✓	
	AC 12546	8.9	9.2	9.05	✓	9.35
	AC 7171	8.8	9.0	8.90	✓	8.95
	AC 10950	9.3	9.3	9.30	✓	
	AC 16821	8.6	8.9	8.75	✓	
	AC 19053	8.7	8.7	8.70	✓	
	AC 14621	9.2	9.3	9.25	✓	9.40
	AC 15803	9.0	9.1	9.05	✓	
	AC 4572	9.6	9.3	9.45	✓	9.40
	AC 6551	9.5	9.3	9.40	✓	
	AC 7262	9.4	9.3	9.35	✓	9.30
	AC 9060	8.6	8.4	8.50	✓	

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1918phae.proj..694A

Monday Feb. 3, 4 1919
Thursday Feb 6, 1919
K Lacertae

Means. Ledger & Est.

AC 15812	9.6	9.4	9.50 $^{10}_{10}$ ✓	
AC 5789	9.3	9.2	9.25 $^{05}_{05}$ ✓	
AC 4172	9.2	9.0	9.10 $^{10}_{10}$ ✓	9.20
AC 13364	8.6	8.6	8.60 ✓	8.60
AC 20225	8.7	8.8	8.75 $^{05}_{05}$ ✓	
AC 5015	9.6	9.6	9.60 ✓	
AC 16874	8.6	8.7	8.65 $^{05}_{05}$ ✓	
AC 4618	9.4	9.5	9.45 $^{05}_{05}$ ✓	
AC 19623	8.7	8.6	8.65 $^{05}_{05}$ ✓	
AC 2153	8.6	8.7	8.65 $^{05}_{05}$ ✓	
AC 14270	8.8	9.0	8.90 $^{10}_{10}$ ✓	9.15
AC 17791	9.2	9.2	9.20 ✓	
AC 3916	8.5	8.3	8.40 $^{10}_{10}$ ✓	8.50
AC 13326	8.6	8.6	8.60 ✓	
AC 7646	9.1	9.2	9.15 $^{05}_{05}$ ✓	
AC 5127	8.5	8.5	8.50 ✓	
AC 14579	8.6	8.7	8.65 $^{05}_{05}$ ✓	
AC 20597	9.4	9.2	9.30 $^{10}_{10}$ ✓	
AC 6898	9.6	9.6	9.60 ✓	
AC 15607	9.6	9.6	9.60 ✓	
AC 5280	8.7	9.1	8.90 $^{20}_{20}$ ✓	8.90
AC 10905	9.5	9.5	9.50 ✓	9.4
AC 4711	9.0	9.0	9.00 ✓	
AC 14567	9.5	9.2	9.35 $^{15}_{15}$ ✓	
AC 18548	9.4	9.3	9.35 $^{05}_{05}$ ✓	

8:10

9:50

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1918phae.proj..694A

Tuesday Feb. 4, 1919
Friday Feb. 7, 1919

X Lacertae

				Mean	Ledger dv. R.A.
9:15	AC 9031	8.8	8.9	8.85 $^{05}_{05}$ ✓	
9:15	AC 2085	8.8	9.0	8.90 $^{10}_{10}$ ✓	
	AC 12379	8.7	8.8	8.75 $^{05}_{05}$ ✓	
	AC 8682	9.2	9.2	9.20 ✓ p.	
	AC 15449	9.3	9.3	9.30 ✓	9.40
	AC 3060	8.5	8.5	8.50 ✓	
	AC 7769	9.4	9.3	9.35 $^{05}_{05}$ ✓	
	AC 11962	9.2	9.2	9.20 ✓	
	AC 919	8.7	8.5	8.60 $^{10}_{10}$ ✓	
	AC 2751	9.0	9.0	9.00 ✓	8.95
	AC 12528	8.7	8.8	8.75 $^{05}_{05}$ ✓	
	AC 14745	9.3	9.2	9.25 $^{05}_{05}$ ✓	
	AC 13233	9.2	9.2	9.20 ✓ p.	8.85
	AC 2141	9.5	9.5	9.50 ✓	
	AC 13451	8.6	8.7	8.65 $^{05}_{05}$ ✓	
	AC 2684	9.3	9.5	9.40 $^{10}_{10}$ ✓	
	AC 1696	9.6	9.4	9.50 $^{10}_{10}$ ✓ p.	
	AC 12809	9.6	9.5	9.55 $^{05}_{05}$ ✓	
	AC 2188	9.2	9.3	9.25 $^{05}_{05}$ ✓ p.	9.15
	AC 3168	9.7	9.6	9.65 $^{05}_{05}$ ✓	9.40
	AC 15954	8.3	8.4	8.35 $^{05}_{05}$ ✓	8.55
	AC 19774	8.7	8.7	8.70 ✓	
	AC 12322	9.5	9.7	9.60 $^{10}_{10}$ ✓ p.	
	AC 4355	8.6	8.5	8.55 $^{05}_{05}$ ✓	
	AC 11734	9.2	9.2	9.20 ✓	

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1918phae.proj..694A

Tuesday. Feb. 4, 1919
Friday. Feb. 7, 1919
X Lacertae

			Mean Ladger d. 1.H.	
AC 5239	9.6	9.6	9.60 ✓	
AC 11302	9.3	9.4	9.35 $^{05}_{05}$ ✓ p.	
AC 2077	9.0	9.2	9.10 $^{10}_{10}$ ✓	
AC 8760	9.5	9.6	9.55 $^{05}_{05}$ ✓	
AC 14191	8.7	8.6	8.65 $^{05}_{05}$ ✓	8.65
AC 18249	8.7	8.8	8.75 $^{05}_{05}$ ✓	
AC 5357	8.6	8.6	8.60 ✓	
AC 11111	8.6	8.4	8.50 $^{10}_{10}$ ✓	
AC 6933	9.1	9.3	9.20 $^{10}_{10}$ ✓	
AC 2964	8.7	9.0	8.85 $^{15}_{15}$ ✓	
AC 8637	8.8	8.8	8.80 ✓	
AC 19273	8.7	8.8	8.75 $^{05}_{05}$ ✓	
AC 12391	8.4	8.5	8.45 $^{05}_{05}$ ✓	8.60
AC 7096	9.0	9.1	9.05 $^{05}_{05}$ ✓ p.	
AC 3204	8.8	8.8	8.80 ✓	9.00
AC 18042	8.6	8.6	8.60 ✓	
AC 11077	9.5	9.3	9.40 $^{10}_{10}$ ✓	
AC 2063	9.6	9.5	9.55 $^{05}_{05}$ ✓	
AC 7307	9.1	9.1	9.10 ✓	
AC 17812	8.8	8.8	8.80 ✓	
AC 4128	9.2	9.2	9.20 ✓	
AC 5969	8.6	8.6	8.60 ✓	
AC 12326	9.6	9.6	9.60 ✓	
AC 16142	9.4	9.4	9.40 ✓ p.	
AC 3289	9.0	9.1	9.05 $^{05}_{05}$ ✓ p	

10.00
9:55

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1918phae.proj..694A

Tuesday Feb. 4, 1919.
Thursday Feb. 6, 1919.

X Lacertae

				Mean Reduced to Eph.	
10:05	AC 17839	8.8	9.0	8.90 10 10 ✓	
10:40	AC 20349	9.6	9.5	9.55 05 05 ✓	
	AC 7712	9.5	9.2	9.35 15 15 ✓	9.30
	AC 7227	8.4	8.5	8.45 05 05 ✓	p 8.50
	AC 6744	8.6	9.0	8.80 20 20 ✓	
	AC 7145	9.6	9.5	9.55 05 05 ✓	
	AC 6681	8.7	8.7	8.70 ✓	
	AC 12622	8.9	9.0	8.95 05 05 ✓	
	AC 3127	8.8	9.1	8.95 15 15 ✓	
	AC 5745	8.6	8.7	8.65 05 05 ✓	
	AC 13312	9.6	9.6	9.60 ✓	
	AC 6645	8.8	8.8	8.80 ✓	
	AC 4335	9.3	9.4	9.35 05 05 ✓	
	AC 8866	8.8	9.0	8.90 10 10 ✓	8.75
	AC 11255	8.7	8.8	8.75 05 05 ✓	
	AC 8620	8.8	9.0	8.90 10 10 ✓	
	AC 1971	9.3	9.2	9.25 05 05 ✓	9.35
	AC 3078	8.6	8.8	8.70 10 10 ✓	
	AC 656	8.8	8.9	8.85 05 05 ✓	
	AC 11921	8.8	8.8	8.80 ✓	
	AC 4092	8.7	8.8	8.75 05 05 ✓	
	AC 1883	8.7	8.7	8.70 ✓	
	AC 3223	9.0	9.0	9.00 ✓	9.25
	AC 11724	8.8	9.0	8.90 10 10 ✓	
	AC 4286	9.3	9.6	9.45 15 15 ✓	
10:25					
10:55					

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1918phae.proj. .694A

Tuesday Sat. 4, 1919.
Thursday Sat. 6, 1919
X Lacertae

				Mean.	Ledger ck. & #	
2:15	AC 1996	8.8	8.8	8.80 ✓		
10:00	AC 12611	9.6	9.5	9.55 05 05 ✓		? does not ep. with c.s. dark pp.
	AC 5158	8.7	8.9	8.80 10 10 ✓	8.95	
	AC 8814	8.6	8.6	8.60 ✓		
	AC 6501	9.6	9.7	9.65 05 05 ✓	9.45	
	AC 12543	8.7	8.8	8.75 05 05 ✓		
	AC 5386	8.7	9.0	8.85 15 15 ✓	9.15	
	AC 2650	8.6	8.7	8.65 05 05 ✓		
	AC 5185	8.7	9.1	8.90 20 20 ✓		
	AC 5503	8.7	8.5	8.60 10 10 ✓		
	AC 12663	9.1	9.4	9.25 15 15 ✓	9.40	
	AC 5780	8.6	8.7	8.65 05 05 ✓		
	AC 13642	9.6	9.6	9.60 ✓		
	AC 9202	9.5	9.6	9.55 05 05 ✓		
	AC 19573	8.8	9.0	8.90 10 10 ✓		
	AC 14284	8.7	8.6	8.65 05 05 ✓		
	AC 5640	8.6	8.6	8.60 ✓		
	AC 13413	8.6	8.7	8.65 05 05 ✓		
	AC 16850	9.3	9.2	9.25 05 05 ✓	9.30	
	AC 12703	8.7	8.8	8.75 05 05 ✓		
	AC 6479	8.8	9.1	8.95 15 15 ✓		
	AC 15718	9.3	9.2	9.25 05 05 ✓		
	AC 5476	9.3	9.4	9.35 05 05 ✓		
	AC 13549	9.5	9.2	9.35 15 15 ✓	9.05	
	AC 5096	9.6	9.2	9.40 20 20 ✓		

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Tuesday Feb. 4, 1919
Thursday Feb. 6, 1919
X Lacertae

			Mean. Judge the C.H.	
AC 14483	8.6	8.6	8.60 ✓	
AC 6046	8.6	8.6	8.60 ✓	
AC 12558	8.7	8.7	8.70 ✓	
AC 6635	9.6	9.5	9.55 05 05 ✓	
AC 15529	8.5	8.6	8.55 05 05 ✓	
AC 6866	9.3	9.4	9.35 05 05 ✓	
AC 11100	8.7	9.0	8.85 15 15 ✓	
AC 7005	9.6	9.6	9.60 ✓	9.30
AC 12674	8.5	8.6	8.55 05 05 ✓	
AC 14702	9.1	9.2	9.15 05 05 ✓	9.45
AC 11190	8.6	8.6	8.60 ✓	
AC 7252	8.7	9.1	8.90 20 20 ✓	
AC 4524	8.6	8.6	8.60 ✓	
AC 12007	8.8	8.7	8.75 05 05 ✓	
AC 2777	9.1	9.1	9.10 ✓	
AC 11033	9.2	9.5	9.35 15 15 ✓	
AC 14549	9.2	9.3	9.25 05 05 ✓	
AC 862	8.6	8.4	8.50 10 10 ✓	
AC 9168	8.7	8.8	8.75 05 05 ✓	
AC 10852	8.6	9.0	8.80 20 20 ✓	8.65
AC 13526	8.8	9.2	9.00 20 20 ✓	9.40
AC 11291	8.7	8.6	8.65 05 05 ✓	
AC 9939	9.3	9.3	9.30 ✓	
AC 10948	9.5	9.6	9.55 05 05 ✓	
AC 9065	8.8	9.0	8.90 10 10 ✓	
AC 10013	9.3	9.3	9.30 ✓	
AC 2019	8.6	8.6	8.60 ✓	
AC 12179	9.2	9.3	9.25 05 05 ✓	

2:55
10:35

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1918phae..proj..694A

Wednesday Feb. 5, 1919

Scale R

μ Lacertae

MC 4356

10:00

P.C.

	Sc 1	Sc 2	Mean	Curve	Mag.	Sc 1	Sc 2	Curve	Mag.
	5.9								
a	5.6			3.05	8.95		11.6	-2.36	9.24
	6.3								
b	6.0			2.91	9.21		12.0	-2.98	9.02
	7.0								
c	6.7			2.67	9.67		12.7	-3.12	9.58
	7.3								
d	7.0			2.55	9.85		13.1	-3.20	9.90
	7.6								
e	7.3			2.45	10.05		13.4	-3.25	10.15
	8.2								
f	7.9	8.2	8.20	2.23	10.43		14.0	-3.34	10.66
	8.5								
g	8.2	8.4	8.45	2.14	10.59				
	9.1								
h	8.8	9.0	9.05	1.90	10.95				
	9.8								
k	9.5	9.8	9.80	1.60	11.40				
	10.3								
l	9.8	10.3	10.30	1.48	11.78				
	10.0								
m		11.0		1.34	12.34				
n		11.4		1.28	12.68				
o		11.8		1.22	13.02				
p		12.3		1.17	13.47				
q		12.6	12.6	12.60	1.14	13.74			
r		13.0	13.0	13.00	1.11	14.11			
s		13.3	13.3	13.30	1.10	14.40			
t		13.7	13.7	13.70	1.09	14.79			
u		14.0	14.0	14.00	1.08	15.08			

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1918phae.proj..694A

Wednesday Feb. 5, 1919

Scale R

V Lacertae

	MC 4356				P.C.			
	Sc. 1	Sc. 2	Mean	Diff.	Sc. 1	Sc. 2	Mean	Diff
a	4.1 3.8		3.65		10.0 9.7	10.0	10.00	-2.25
a'	4.4 4.1		3.68		10.3 10.0	10.5	10.40	-2.32
b	7.6 7.3		2.50			13.3		-3.20
c	6.3 5.0		3.08			11.2		-2.82
c1	5.8 5.5		3.00			11.9		-3.10
c2	6.1 5.8		3.08			12.1		-2.72
d	6.6 6.3		2.66			12.2		-2.94
e	7.7 7.4		2.49			13.7		-3.51
f	6.7 6.4		2.73			12.6		-3.17
f'	6.9 6.6		2.76			12.8		-3.14
~~f2~~								
g	7.5 7.2		2.59			13.4		-3.31
h	8.3 8.0	8.3	8.30	2.18		13.8		-3.32
k	7.9 7.6		2.24			13.3		-3.16
l	8.8 8.5	8.8	8.80	1.90		14.0		-3.30
m	9.1 8.9	9.0	9.05	1.92				
n	10.0 9.7	9.9	9.95	1.37				
o		10.8		1.22				
p		11.8		1.26				
q		12.3	12.4	12.35	1.19			
r		12.8	12.9	12.85	1.37			
s		13.5	13.4	13.45	0.98			
t		13.8	13.8	13.80	0.98			
u		14.0	14.0	14.00	1.13			
w								

11:05

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1918phae.proj..694A

Wednesday Feb. 5, 1919

Scale N U Lacertae

AC 16600

		Le B	Le B C	Le B	Mean	Curve	Mag.
		6.9					
11:15	a	7.3		6.9	6.90	1.82	8.72
		7.3					
	b	7.7		7.3	7.30	1.75	9.05
		7.9					
	c	8.3		8.0	7.95	1.57	9.52
		8.4					
	d	8.8		8.4	8.40	1.45	9.85
	e	~~9.2~~	9.0	9.2	9.10	1.20	10.30
	f		9.5	9.5	9.50	1.07	10.57
	g		9.6	9.6	9.60	1.02	10.62
	h		9.7	9.8	9.75	.97	10.72
	k		10.1	10.1	10.10	84	10.94
	l						
	m						
	n						
	o						
	p						
	q						
	r						
	s						
	t						
	u						

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1918phae.proj..694A

Wednesday Feb. 5, 1919

Scale N

V Lacertae

AC 16600

	Lc. B	Lc. C	Mean	Diff.
	5.8			
a	6.2	5.8	5.80	1.96
	6.1			
a'	6.5	6.0	6.05	2.03
	8.6			
b	9.0	8.7	8.65	1.45
	6.7			
c	7.1	6.7	6.70	1.68
	7.2			
c_1	7.6	7.0	7.10	1.70
	7.4			
c_2	7.8	7.3	7.35	1.83
	7.6	7.7		
d	8.0	~~8.6~~	7.65	1.61
	8.8			
e	9.2	8.8	8.80	1.39
	~~7.7~~ 8.1	7.8		
f	~~7.7~~ 7.9	~~7.7~~	7.75	1.68
f_1	8.3	7.9	7.90	1.76
~~f_2~~				
	8.6			
g	9.0	8.7	8.65	1.84
h		9.5 9.7	9.60	0.88
k		8.8 9.0	8.90	1.24
l		9.7 9.9	9.70	1.00
m		9.9 9.9	9.90	1.07
n		n.s.		
o				
p				
q				
r				
s				
t				
u				
w				

11:50

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1918phae.proj..694A

Wednesday Feb 5, 1919

Lead N V Lacertae

AC 28 150

12:05

	Re. B	Re. C	Mean	Diff
a	7.1 7.5	7.0	7.05	.70
a'	7.3 7.7	7.3	7.30	.78
b	~~8.8 9.2~~	8.8 ~~9.2~~	8.80	1.30
c	7.5 7.9	7.6	7.55	.83
c'	7.9 8.3	8.0	7.95	.85
c''	8.1 8.5	8.1	8.10	1.08
d	8.3 8.~~4~~	8.5	8.40	.86
e	8.8 9.2	8.8	8.80	1.39
f	8.3 8.7	8.4	8.35	1.08
g'	8.4 8.8	8.4	8.40	1.26
~~g2~~				
g	8.8 9.2	8.8 ~~9.2~~	8.80	1.29
h	9.5	9.4	9.45	1.03
k	9.1	9.2	9.15	.99
l	9.6	9.8	9.60	1.10
m	9.8	9.8	9.80	1.17
n	10.1	10.1	10.10	1.42
o		n.s.		
p				
q				
r				
s				
t				
u				
w				

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1918phae.proj..694A

Wednesday Feb. 5, 1919.

Sc. N

U Sagittae

AC 20150

	Sc 13	Sc C	Mean.	Curvr.	Mag.
	7.9				
a	8.3	7.9	7.90	.88	8.78
	8.2				
b	8.6	8.1	8.15	.93	9.08
	8.5				
c	8.9	8.5	8.50	1.00	9.50
	8.7				
d	9.1	8.8	8.75	1.04	9.79
	8.9				
e	9.3	9.0	8.95	1.09	10.04
f		9.3	9.30	1.15	10.45
g		9.4 9.5	9.45	1.18	10.63
h		9.8 9.7	9.75	1.24	10.99
k		10.0 10.0	10.00	1.29	11.29
l		ns			
m					
n					
o					
p					
q					
r					
s					
t					
u					

12:35

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1918phae.proj. .694A

Wednesday Feb. 5, 1919.

Scale N Vacuitas

AC 20471

	1:50	k. B		AC	Mean	Diff.
a		7.1 7.5		7.1	7.10	.65
a'		7.4 7.8		7.4	7.40	.68
b				8.9		1.20
c		7.6 8.0		7.7	7.65	.73
a1		7.9 8.3		8.0	7.95	.85
c2		8.2 8.6		8.2	8.20	.98
d		8.2 8.6		8.5	8.35	.91
e				9.0		1.19
f		8.3 8.7		8.5	8.40	1.03
f1		8.5 8.9		8.6	8.55	1.11
~~f2~~						
g		8.8 9.2		8.9	8.85	1.24
h			9.4	9.3	9.35	1.13
k		8.9 9.3		8.9	8.90	1.24
l			9.5	9.5	9.50	1.20
m			9.7	9.7	9.70	1.27
n			10.0	10.0	10.00	1.52
o						
p						
q						
r						
s						
t						
u						
w						

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Wednesday Feb. 5, 1919.

Scale N

U Sagittae

AC 20471

	Pc B	D C	Mean.	Curvr	Mag.
	8.1				
a	8.5	8.0	8.05	.89	8.94
	8.3				
b	8.7	8.3	8.30	.95	9.25
	8.5				
c	8.9	8.6	8.55	1.03	9.58
	8.8				
d	9.2	8.8	8.80	1.10	9.90
e		9.0		1.16	10.16
f		9.5		1.30	10.80
g		9.6		1.34	10.94
h		9.9		1.43	11.33
k		10.1		1.48	11.58
l		n.s			
m		.			
n		.			
o		.			
p		.			
q		.			
r		.			
s		.			
t		.			
u		.			

2:20

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1918phae.proj..694A

22.4152 – Lacertae was observed on all of these plates at the same time as U Lacertae. It never became as bright as 52°3280 or fainter than 52°3292.

Friday Feb. 7 1919

Monday Feb. 10, 1919

MC 4356

U Lacertae

				Mean Estimate of L.L.H.	
2:10	AC 9031	10.1	10.1	10.10 ✓	
10:10	AC 2085	10.0	10.1	10.05 $^{05}_{05}$ ✓	
Des. Mag.	AC 12379 10.8	N.S. <8.8	10.8	10.80 ✓	t.p.
a 8.8	AC 8682	9.9	10.0	9.95 $^{05}_{05}$ ✓	
b 9.1	AC 15449	10.4	10.7	10.55 $^{15}_{15}$ ✓	10.6
c 9.6	AC 3060	10.7	10.8	10.75 $^{05}_{05}$ ✓	
d 9.9	AC 7769	10.1	10.1	10.10 ✓	
e 10.1	AC 11962	10.5	10.5	10.50 ✓	
f 10.5	AC 919	10.1	10.2	10.15 $^{05}_{05}$ ✓	
g 10.7	AC 2751	10.3	10.6	10.45 $^{15}_{15}$ ✓	10.4
h 11.0	AC 12528	10.6	10.7	10.65 $^{05}_{05}$ ✓	
	AC 14745	10.8	10.7	10.75 $^{05}_{05}$ ✓	10.7 image rather hazy.
	AC 13233	N.S. <8.8	N.S.	✓	t.p.
	AC 2141	10.0	10.0	10.00 ✓	
	AC 13451	10.6	10.7	10.65 $^{05}_{05}$ ✓	
	AC 2684	10.3	10.5	10.40 $^{10}_{10}$ ✓	
	AC 1656	10.1	10.3	10.20 $^{10}_{10}$ ✓	
	AC 12809	10.7	10.7	10.70 ✓	
	AC 2188	10.0	10.0	10.00 ✓	
	AC 3168	10.7	10.8	10.75 $^{05}_{05}$ ✓	
	AC 15754	10.0	10.1	10.05 $^{05}_{05}$ ✓	
	AC 19774	9.8	10.0	9.90 $^{10}_{10}$ ✓	
	AC 12322	N.S.	N.S.	✓	t.p.
	AC 4355	10.7	10.7	10.70 ✓	
	AC 11734	10.6	10.7	10.65 $^{05}_{05}$ ✓	

2:35

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1918phae.proj..004A

100

Friday Feb. 7, 1919
Monday Feb. 10, 1919
U Lacertae

Mean Ledger & P.S.P.

2:35	AC 5239	10.8	10.7	10.75 .05 .05 ✓	
	AC 11302	10.1	10.1	10.10 ✓	
	AC 2077	10.1	10.1	10.10 ✓	
	AC 8760	10.0	10.3	10.15 .15 .15 ✓	10.1 - In. faint & poor.
	AC 14191	10.5	10.5	10.50 ✓	
	AC 18249	10.7	10.7	10.70 ✓	
	AC 5357	10.8	10.9	10.85 .05 .05 ✓	
	AC 11111	10.0	10.1	10.05 .05 .05 ✓	
	AC 6933	10.5	10.3	10.40 .10 .10 ✓	
	AC 2964	10.7	10.8	10.75 .05 .05 ✓	
	AC 8637	10.0	10.1	10.05 .05 .05 ✓ p.	
	AC 19273	10.3	10.4	10.35 .05 .05 ✓	
	AC 12391	10.5	10.7	10.60 .10 .10 ✓	
	AC 7096	10.7	10.7	10.70 ✓	
	AC 3204	10.7	10.8	10.75 .05 .05 ✓	
	AC 18042	10.5	10.6	10.55 .05 .05 ✓	
	AC 11077	10.0	10.1	10.05 .05 .05 ✓	
	AC 2063	9.9	10.1	10.00 ✓	
	AC 7307	10.0	10.1	10.05 .05 .05 ✓	
	AC 17812	10.1	10.3	10.20 .10 .10 ✓	
	AC 4128	10.3	10.5	10.40 .10 .10 ✓	
	AC 5969	N.S.	10.1	10.1 ✓	f.p. 10.2 too poor to be sure.
	AC 12326	10.7	10.7	10.70 ✓	
	AC 16142	10.0	10.1	10.05 ✓	
	AC 9289	10.8	10.7	10.75 .05 .05 ✓	

2:55

10:55

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1918phae.proj. 694A

Saturday Feb. 8, 1919
Monday Feb. 10, 1919
U Lacertae

				Mean Adopted R.A. St.
8:50	AC 17839	10.1	10.1	10.10 ✓
2:10	AC 20349	U.S.	U.S.	✓ f.p.
	AC 7712	10.1	10.1	10.10 ✓
	AC 7227	10.1	10.1	10.10 ✓
	AC 6744	10.7	10.8	10.75 -05 -05 ✓
	AC 7145	10.1	10.2	10.15 -05 -05 ✓
	AC 6681	10.7	10.6	10.65 -05 -05 ✓
	AC 12622	10.7	10.7	10.70 ✓
	AC 3127	10.5	10.7	10.60 -10 10 ✓
	AC 5745	10.5	10.6	10.55 -05 05 ✓
	AC 13312	10.7	10.7	10.70 ✓
	AC 6645	10.7	10.7	10.70 ✓
	AC 4335	10.4	10.5	10.45 -05 05 ✓
	AC 3866	10.2	10.5	10.35 -05, 15 ✓ 10.3
	AC 11255	10.1	10.2	10.15 -05 -05 ✓
	AC 8620	10.2	10.4	10.30 -10 10 ✓
	AC 1971	10.0	10.1	10.05 -05 05 ✓
	AC 3078	10.6	10.8	10.70 -10 10 ✓
	AC 656	10.1	10.3	10.20 -10 10 ✓
	AC 11921	10.7	10.7	10.70 ✓
	AC 4092	10.4	10.5	10.45 -05 05 ✓
	AC 1883	10.0	10.1	10.05 -05 05 ✓
	AC 3323	10.6	10.6	10.60 ✓
	AC 11724	10.6	10.5	10.55 -05 -05 ✓
	AC 4286	10.5	10.5	10.50 ✓
9:15				
2:30				

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1918phae.proj..694A

Saturday Feb. 8, 1919
Monday Feb. 10, 1919
U La certae

				Mean Judged by E.E.H.	
9:20	AC 13698	10.3	10.2	10.30 ✓	
9:10	AC 17285	10.0	10.1	10.05^{05}_{05} ✓	
	AC 14638	10.2	10.3	10.25^{05}_{05} ✓	
	AC 1765	10.0	10.0	10.00 ✓	
	AC 8608	10.0	10.0	10.00 ✓	
	AC 10859	10.5	10.5	10.50 R ✓	10.3 very faint + poor im.
	AC 18881	10.6	10.6	10.60 ✓	
	AC 7696	10.1	10.2	10.15^{05}_{05} ✓	f.
	AC 15822	10.0	10.0	10.00 ✓	
	AC 11137	10.1	10.1	10.10 ✓	
	AC 19232	10.4	10.5	10.45^{05}_{05} ✓	
	AC 6815	10.3	10.7 R	10.30 00 00 / 10.~~50~~ 20 20 ✓	10.3 ep. star f. faint than q
	AC 15506	10.3	10.1	10.20^{10}_{10} ✓	
	AC 5520	10.5	10.8	10.65^{15}_{15} ✓	Im. too faint to measure
	AC 12546	10.8	10.8	10.80 ✓	
	AC 7171	10.0	10.1	10.05^{05}_{05} ✓	
	AC 10950	9.9	10.0	9.95^{05}_{05} ✓	
	AC 16821	10.2	10.4	10.30^{10}_{10} ✓	
	AC 19053	10.4	10.5	10.45^{05}_{05} ✓	
	AC 14621	10.5	10.5	10.50 ✓	10.3 - Reject 10.5
	AC 15803	10.0	10.0	10.00 ✓	
	AC 4572	10.7	10.7	10.70 ✓	
	AC 6551	10.7	10.6	10.65^{05}_{05} ✓	
	AC 7262	10.1	10.1	10.10 ✓	
9:40	AC 9060	10.7	10.5	10.60^{10}_{10} ✓	depict (which spot own image)

↑ do not put much weight on this estimate sat to omit measure.

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1918phae.proj. .694A

Saturday Feb. 8, 1919

Monday Feb. 10, 1919

Hyades

Ledgard L.L.H.

				Mean	
9:40	AC 15812	10.1	10.0	10.05 05 05 ✓	
	AC 5789	10.5	10.6	10.55 05 05 ✓	
	AC 4172	10.6	10.7	10.65 05 05 ✓	
	AC 13364	10.8	10.8	10.80 ✓	
	AC 20225	10.1	10.1	10.10 ✓	
	AC 5015	10.7	10.7	10.70 ✓	
	AC 10874	10.5	10.3	10.40 10 10 ✓	10.1 Image poor.
	AC 4618	10.8	10.6	10.70 10 10 ✓	
	AC 19623	10.0	10.1	10.05 05 05 ✓	
	AC 2153	10.0	10.0	10.00 ✓	
	AC 14270	10.5	10.6	10.55 05 05 ✓	
	AC 17791	10.1	10.1	10.10 ✓	
	AC 3916	10.3	10.4	10.35 05 05 ✓	
	AC 13326	10.9	10.9	10.90 ✓	
	AC 7646	10.3	10.7	10.50 20 20 ✓	10.3? too poor to count estimate
	AC 5127	4.3	4.3	✓	L.p
	AC 14519	10.3	10.3	10.30 ✓	
	AC 20597	10.5	10.5	10.50 ✓	
	AC 6898	10.6	10.7	10.65 05 05 ✓	
	AC 1607	10.1	10.0	10.05 05 05 ✓	
	AC 5280	10.7	10.8	10.75 05 05 ✓	
	AC 10905	10.0	10.0	10.00 ✓	
	AC 4711	10.7	10.7	10.70 ✓	
	AC 14567	10.6	10.6	10.60 ✓	p 10.3 Reject 10.6
	AC 18548	10.3	10.3	10.30 ✓	10.4
ate	9:55				
	9.65				

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1918phae.proj..694A

Saturday Feb. 8, 1919
Monday Feb. 10, 1919
U Lacertae

Mean Ledger as by Asst.

10:30	AC 12179	10.5	10.5	10.50 ✓	
2:30	AC 2019	10.0	10.1	10.05 $^{05}_{05}$ ✓	
	AC 10013	10.1	10.3	10.20 $^{10}_{10}$ ✓	
	AC 9065	10.5	10.1	10.30 $^{20}_{20}$ ✓	10.2 hw. poor.
	AC 10948	10.0	10.1	10.05 $^{05}_{05}$ ✓	
	AC 9939	10.1	10.2	10.15 $^{05}_{05}$ ✓	fp.
	AC 11091	10.0	10.1	10.05 $^{05}_{05}$ ✓	
	AC 13526	10.6	10.6	10.60 ✓	
	AC 10852	10.1	10.1	10.10 ✓	
	AC 9168	10.6	10.2	10.40 $^{20}_{20}$ ✓	10.3 hw. poor.
	AC 862	10.7	10.7	10.70 ✓	
	AC 14549	10.5	10.5	10.50 ✓	10.3 fp. poor ima. Regist 10.5
	AC 11033	9.9	10.1	10.00 $^{10}_{10}$ ✓	
	AC 2777	10.6	10.5	10.55 $^{05}_{05}$ ✓	
	AC 12007	h=L 9.9 M.S.		✓	
	AC 4524	10.4	10.7	10.55 $^{15}_{15}$ ✓	10.5
	AC 7252	10.0	10.0	10.00 ✓	
	AC 11190	10.0	9.9	9.95 ^{10} ✓	
	AC 14702	10.3	10.1	10.20 ^{1} ✓	10.10 adopted. 10.1 images rather poor.
	AC 12674	10.8	10.8	10.80 ✓	
	AC 7005	10.7	10.5	10.60 ^{1} ✓	
	AC 11100	10.0	10.1	10.05 ^{01} ✓	
	AC 6866	10.5	10.5	10.50 ✓	
	AC 15529	10.4	10.4	10.40 ✓	
	AC 6635	10.7	10.7	10.70 ✓	
	AC 12558	10.7	10.7	10.70 ✓	

10:50

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See p. 118

Saturday Feb. 8, 1919
Monday Feb. 10, 1919
U Sacentae

				Mean	Ledger a.c.H.
10:50	AC 6046	10.2	10.4	10.30	11 ✓
	AC 14483	10.3	10.3	10.30	✓
	AC 5096	10.8	10.8	10.80	✓
	AC 13549	10.7	10.7	10.70	✓
	AC 5476	10.7	10.8	10.75	01 ✓
	AC 15718	10.0	10.0	10.00	✓
	AC 6479	10.8	10.7	10.75	10 ✓
	AC 12703	10.4	10.7	10.55	12 ✓
	AC 16850	10.3	10.4	10.35	01 ✓
	AC 13413	10.7	10.8	10.75	01 ✓
	AC 5640	10.6	10.8	10.70	11 ✓
	AC 14284	10.4	10.4	10.40	✓
	AC 19573	10.1	10.1	10.10	✓
	AC 9202	10.0	10.0	10.00	✓
	AC 13642	10.5	10.5	10.50	✓
	AC 5780	10.3	10.5	10.40	11 ✓
	AC 12663	10.7	10.8	10.75	01 ✓
	AC 5503	10.8	10.9	10.85	01 ✓
	AC 5185	10.7	10.6	10.65	10 ✓
	AC 2650	10.6	10.7	10.65	01 ✓
	AC 5386	10.8	10.7	10.75	10 ✓
	AC 12543	10.8	10.8	10.80	✓
	AC 6501	10.6	10.7	10.65	01 ✓
	AC 8814	10.1	10.0	10.05	10 ✓
	AC 5158	10.7	10.8	10.75	01 ✓
	AC 12611	10.8	10.7	10.75	10 ✓
11:10	AC 1996	10.1	10.3	10.20	11 ✓
3:05					

Mean of 9 results vary. - do not estimate.

p. too poor to estimate. Enter 9 in ledger

10.5

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1918phae.proj..694A

Tuesday Feb. 11, 1919

Sc. N

AC 16600

11:45

δ W Cassiopeiae

	Sc, B	Sc	Mean	Curv.	Mag.	9a:58 Series Diff.	Curv.	Mag.
	7.2							
a	7.6	7.0	7.10	1.75	8.85	1.96	2.00	9.10
	7.5							
b	7.9	7.6	7.56	1.64	9.19	1.92	1.90	9.45
c		7.7		1.17	10.87	1.31	1.64	11.34
	8.2							
d	8.6	8.2	8.20	1.48	9.68	1.85	1.75	9.95
	8.9							
d'	9.3	9.1	9.00	1.30	10.30	~~1.30~~	1.56	10.56
e		10.0		1.12	11.12	130	1.24	11.24
e'		N.S.						
f		"						

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1918phae.proj..694A

Tuesday Feb. 11, 1919

Sc. N

AC 16600

V Lacertae

	Sc. B	Sc. C	Mean	Diff.
	5.5			
a	5.9	5.6.	5.55	2.20
	8.5			
b	8.9	8.7	8.60	1.50
	6.8			
c	7.2	6.8	6.80	1.58
	7.5			
d	7.9	7.7	7.60	1.66
	8.8			
e	9.2	8.8	8.80	1.39
	7.4			
f	7.8	7.5	7.45	1.98
	8.6			
g	9.0	8.9	8.75	1.34
h		9.4		1.08
	8.7			
k	9.1	8.8	8.75	1.39
l		9.7		1.00
m		9.8		1.17
n		10.1		1.42.
o		N.S.		

12:05

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1918phae.proj..694A

Tuesday Feb. 11, 1919

Sc. N

V Sagittae

AC 20150

12:05

	Sc. B	Sc C	Mean	Diff.
	7.2			
a	7.6	7.0	7.10	.65
	8.9			
b	9.3	9.0	8.95	1.15
	7.7			
c	8.1	7.8	7.75	.63
	8.3			
d	8.7	8.2	8.25	1.01
	8.6 8.9	8.9		
e	~~8.9~~ 9.3	~~9.3~~	8.90	1.29
	8.3			
f	8.7	8.3	8.30	1.13
	8.8			
g	9.2	8.8	8.80	1.29
h		9.4		1.08
k		9.2		.94
l		9.6		1.10
m		9.8		1.17
n		10.2		1.32
o		n.s.		

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1918phae.proj..694A

Tuesday Feb. 11, 1919

Lo. N. SW Coss.

AC 20150

	Lo. B	Lo. C	Mean	Curv.	Mag.	Diff.	Mag.	Curv	Mag.
	7.7				9a:58				
a	8.1	7.9	7.80	.85	8.65	1.26	9.06	1.22	9.02
b	8.2 8.6	8.4	8.30	1.00	9.30	1.17	9.47	1.27	9.57
c		9.7 9.7	9.70	1.20	10.90	1.31	11.01	1.43	11.13
d	8.6 9.0	8.7	8.65	1.06	9.71	1.40	10.05	1.30	9.95
d'		9.4 9.4	9.40	1.17	10.57	~~1.53~~		1.39	10.79
e		9.8 9.8	9.80	1.21	11.01	1.50		1.44	11.24
e'		10.1 10.1	10.10	1.23	11.33			1.48	11.58
f		n.s							

12:25

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1918phae.proj..694A

Tuesday Feb. 11, 1919

Sc. N. S. W Case.

AC 20544

1:55 9a:58

	Sc. B	Sc C	Mean Curve		Mag.	Diff.	Curve	Mag.
a	6.7 7.1	6.7	6.70	1.79	8.49	2.36	2.39	9.09
~~b~~	7.2 7.6	7.2	7.20	1.76	8.96	2.27	2.27	9.47
~~c~~		9.2 9.3	9.25	1.77	11.02	1.76	1.78	11.08
d	8.0 8.4	8.1	8.05	1.72	9.77	2.00	2.04	10.09
d'	8.4 8.8	8.5	8.45	1.73	10.18	~~1.70~~	1.96	10.41
e		9.6 9.6	9.60	1.79	11.39	1.70	1.69	11.29
e'		9.8 9.8	9.80	1.80	~~11.60~~		1.63	11.43
f		n.s.						

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1918phae.proj..694A

Tuesday Feb. 11, 1919

V Lacertae

Sc. N ~~S Ursae~~

AC 20544

	Sc. B	Sc. C	Mean.	Diff.
	5.9			
a	6.3	5.9	5.90	1.85
	8.4			
b	8.8	8.6	8.50	1.60
	7.6			
c	7.0	6.6	6.60	1.78
	7.4			
d	7.8	7.4	7.40	1.86
	8.5			
e	8.9	8.7	8.60	1.59
	7.5			
f	7.9	7.5	7.50	1.93
	8.3			
g	8.7	8.5	8.40	1.69
h		8.8 8.7	8.75	1.73
	8.4			
k	8.8	8.5	8.45	1.69
l		8.9 8.9	8.90	1.80
m		9.1 9.2	9.15	1.82
n		9.8 9.7	9.75	1.77
o		10.1 ~~N.S.~~ 10.1	10.10	1.92
1:20 p		N.S.		

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1918phae.proj..694A

Tuesday Feb. 11, 1919

Sc. N V Lacertae

AC 20471

2:30

	Sc. B	Sc C.	Mean	Diff.
a	7.0 7.4	6.9	6.95	0.80
b	~~7.7~~ 8.0 7.6	8.9		1.20
c	~~7.7~~ 8.4	7.6	7.60	.78
d	8.8	8.5	8.45	.81
e		9.2 9.2	9.20	.99
f	8.4 8.8	8.4	8.40	1.03
g		9.1 9.0	9.05	1.04
h		9.4 9.4	9.40	1.08
k		9.1 9.1	9.10	1.04
l		9.7 9.7	9.70	1.00
m		9.8 9.8	9.80	1.17
n		10.2 10.2	10.20	1.32
o		n.s		

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1918phae.proj..694A

Tuesday Feb. 11, 1919

Sc. h 1 W Cass.

AC 20471

	Sc B	Sc C	Mean	Curve	Mag.	Diff.	Curve	Mag.
	7.6				9:58			
a	8.0	7.7	7.65	.83	8.48	1.41	1.36	9.01
	8.1							
b	8.5	8.2	8.15	.88	9.03	1.32	1.32	9.47
c		9.8 9.7	9.75	1.15	10.90	1.26	1.30	11.05
	8.8							
d	9.2	8.8	8.80	.98	9.78	1.25	1.29	10.09
d'		9.1 9.0	9.05	1.02	10.07		1.28	10.33
e		9.9 9.9	9.90	1.17	11.07	1.40	1.30	11.20
e'		10.1 10.1	10.10	1.21	11.31		1.31	11.41
f		n.s						

2:50

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1918phae.proj..694A

Wednesday Feb. 12, 1919

Sc. M

DM Ref. Sequence

	MC9938		g h	P.C.
9:15	Sc. 1	Sc. 2	Sc. 2 Sc. 2	Sc. 2
1	2.7		7.7 7.8	7.7
2	3.4		8.4 8.2	8.3
3	3.8	3.9	8.6 8.6	8.8
4	3.8	4.0	8.7 8.7	8.8
5	4.2	4.4	8.8 8.8	9.0
6	5.1	5.3	9.7 9.6	9.9
7	5.7	5.8	9.9 10.0	
8	5.9	6.0		
9	6.6	6.7		
10	6.8	7.0		
11	6.9	7.2		
12		7.4		
13		7.8		
14		7.9		
15	8.1	8.1		
16	8.6	8.6		
17	8.8	8.9		
18	9.0	9.0		
19	9.4	9.2		
20	Dy. Image			

9:50

54

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1918phae.proj..694A

Wednesday Feb. 12, 1919

L.M. V Cassiopeia

MC 9938

		Sc.1	Sc.2
9:55			
	a	B	
	b	B	
	c	3.5	
	d	3.0	
	e	2.8	
	f	3.7	
	g	4.9	5.1
	h	4.7	4.9
	k	5.2	5.4
	l	5.4	5.5
	m	5.6	5.7
	n	5.9	6.0
	o	6.1	6.3
	p		7.6
	q	6.9	7.0
	r	6.8	7.0
	s		7.8
	t		7.8
	u		8.0
	w	8.0	8.0
	x	8.6	8.6
	y	8.8	8.8
	z	9.2	9.2
	x	9.8	9.8

10:~~40~~ 55

78

	g	h
	Sc.2	Sc.2
	4.8	4.7
	4.1	4.2
	7.5	7.7
	7.7	7.7
	7.4	7.4
	7.8	7.8
	9.0	9.0
	8.7	8.9
	9.2	9.0
	9.2	9.2
	9.6	9.4
	10.0	9.9
	9.8	9.9

	P.C.	
	Sc.½	Sc.2
	4.6	4.8
	3.9	4.2
		7.8
		7.7
		7.2
	8	8.0
		9.8
		9.4

Diff. P.C.

	g	h
	Sc.2	Sc.2
a	8.7	8.8
b	8.4	8.4

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1918phae.proj..694A

Cont. from p. 82

Saturday Feb. 15, 1919.

U Sagittae

Mean Ledgerw. R.L.J.

2:00 9:55	I 21047	10.0	9.9	9.95	10 ✓	
	I 23500	~~9.2 9.4~~	~~9.2 9.8~~	~~9.20~~	✓	Rejected see bk. 6 : 195 C' = 8.8 dy. image 8.65
	I 9732	9.9	9.8	9.86	10 ✓	
	I 23521	9.4	9.6	~~9.50~~	1 1 ✓	Rej. see bk 6 : 195 9.70
	I 7449	9.7	9.5	9.60	1 1 ✓	
	I 21519	9.9	9.9	9.90	✓	
	I 9352	10.1	10.0	10.05	1 0 ✓	
	I 11465	9.5	9.2	9.35	2 1 ✓	Keep original obs. ~~9.25~~
	I 12021	9.2	9.3	9.25	0 1 ✓	
	I 18744	10.0	9.9	9.95	10 ✓	
	I 10672	10.0	10.0	10.00	✓	
	I 15890	9.9	9.7	9.80	1 1 ✓	
	I 10576	10.0	9.9	9.95	1 0 ✓	
	I 11838	9.9	9.7	9.80	1 1 ✓	
	I 12062	10.1	10.1	10.10	✓	
	I 11457	9.3	9.3	9.30	✓	
	I 11592	9.1	9.0	9.05	1 0 ✓	
	I 9728	10.0	9.9	9.95	10 ✓	
	I 11872	10.0	10.0	10.00	✓	
	I 9444	10.1	9.9	10.00	1 1 ✓	
2:20 10:25						

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1918phae.proj..694A

Cont from p. 90

Saturday Feb. 15 1919

x Lacertae

				Mean. Ledger ch. A.P. H.	
2:20 10:30	I 21047	9.5	9.2	9.35 $^{2}_{1}$ v	
	I 9444	8.6	8.6	8.60 v	
	I 11872	9.0	9.4	9.20 $^{2}_{2}$ g v	Rec Bk 6: 200 adopt 9.40
	I 9728	9.2	9.6	9.40 $^{2}_{2}$ v	
	I 11592	9.6	9.3	9.45 $^{2}_{1}$ v	Rec Bk 6: 201 Adopt 9.2?
	I 11457	8.8	9.0	8.90 $^{1}_{1}$ v	" " 6: 200 " 8.6?
	I 10062	9.7	9.2	9.45 $^{4}_{3}$ $^{3}_{2}$ $^{2}_{1}$ v	
	I 11838	9.3	9.5	9.40 $^{1}_{1}$ v	
	I 10, 516	9.2	9.6	9.40 $^{2}_{2}$ v	
	I 15890	9.3	9.3	9.30 v	
	I 10672	9.4	9.0	9.20 $^{2}_{2}$ v	Rec Bk 6: 200 adopt 9.10
	I 18744	9.2	8.8	9.00 $^{2}_{2}$ v	
	I 12021	9.0	9.0	9.00 v	" " 6: 200 " 8.6?
	I 11, 465	9.2	8.9	9.05 $^{2}_{1}$ v	" " 6: 200 " 8.6?
	I 9352	9.2	9.3	9.25 $^{0}_{1}$ v	
	I 21519	8.7	8.6	8.65 $^{1}_{0}$ v	
	I 7449	8.6	8.8	8.70 $^{1}_{1}$ v	
	I 23521	9.1	9.5	9.30 $^{2}_{2}$ v	
	I 9732	9.3	9.6	9.45 $^{1}_{2}$ v	
	I 23500	~~9.6~~ 9.2	9.2	9.20 v	
2:40 10:50					

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1918phae.proj..694A

Cont. from p. 105

Tuesday Feb. 18, 1919

U Lacertae

		Plates		Mean. Redger ch. C.R.H.
2:20	I 7244	10.1	10.1	10.10 ✓
2:50	I 9006	10.6	10.5	10.55 ✓
	I 16272	10.0	10.1	10.05 ✓
	I 21564	10.0	10.2	10.10 ✓
	I 11427	10.1	9.9	10.00 ✓
	I 9009	10.4	10.5	10.45 ✓
	I 21131	10.3	10.3	10.30 ✓
	I 7153	10.5	10.4	10.45 ✓
	I 4141	10.5	10.7	10.60 ✓
	I 23545	9.9	9.9	9.90 ✓
	I 13332	10.7	10.9	10.80 ✓
	I 7359	10.3	10.3	10.30 ✓
	I 11404	10.1	10.4	10.25 ✓
	I 6886	10.2	10.5	10.35 ✓
	I 16453	9.9	10.0	9.95 ✓
	I 18567	10.4	10.6	10.50 ✓
	I 9728	10.5	10.5	10.50 ✓
	I 11872	10.0	10.0	10.00 ✓
	I 9444	10.4	10.6	10.50 ✓
	I 23500	10.1	10.1	10.10 ✓
2:40				
3:05				

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Monday Feb. 17, 1919.

Scale R

V Cassiopeiae

		MC 4359					P.C.				
9:45		Sc. 1	Sc. 2	Mean	Curve	Mag.	Sc. 1	Sc. 2	Curve	Mag.	
	a	B					8.1				
	b	B					7.8				
	b'	2.5 / 2.2					7.9				
	b²	3.1 / 2.8					7.6				
	b³	4.1 / 3.8					9.1				
							8.8 / 9.6	9.05	9.0		
							9.3	9.65	9.7		
							10.3				
							10.0	10.35	10.4		
	c	6.2 / 5.9			3.08	9.28			12.2	2.82	9.38
	d	5.9 / 5.6			3.16	9.06 R			11.9	2.78	9.12
	e	5.8 / 5.5			3.19	8.99 R			11.3	.	
	f	6.4 / 6.1			3.01	9.41			12.4	2.85	9.55
	f'	6.7 / 6.4			2.93	9.63			12.8	2.90	9.90
	f²	7.6 / 7.3			2.64	10.24			13.0	2.91	10.09
	f³	8.1 / 7.8		8.0	8.05	2.50 10.55			13.6	2.94	10.66 R.
	g	8.3 / 8.0		8.2	8.25	2.45 10.70					
	h	8.6 / 8.3		8.4	8.50	2.36 10.86					
	k	8.7 / 8.4		8.8	8.76	2.27 11.02					
	l	9.0 / 8.7		8.9	8.95	2.21 11.16					
	m	9.1 / 8.8		9.1	9.10	2.17 11.27					
	n	9.8 / 9.5		9.8	9.80	1.94 11.74					
	o	9.9 / 9.6		10.0	9.96	1.88 11.83					
	o'			10.7		1.63 12.33					
	o²			(11.0)							
	p			11.4		1.48 12.88					
	q			↙		1.52 12.52	w	11.9	11.75	11.8	1.25 13.00
	r			10.8		1.60 12.40	x	12.8	12.65	12.9	.90 13.75
	s			12.0		1.16 13.16	y	13.2	13.20	13.2	.81 14.01
	t			11.8		1.24 13.04	z	13.7	13.70	13.7	.74 14.44
10:40	u			12.2		1.09 13.29	z	13.9	13.95	14.0	.72 14.67

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1918phae.proj..694A

Monday Feb. 17, 1919

Scale R

S W Cass.

MC 4359

		Sc. 1	Mean.	Sc 2.	Diff.	P. C. Sc. 1	Sc. 2.	Diff.
10;40		5.9						
	a	5.6			3.16	11.8		-2.74
		6.3						
	b	6.0			3.18	12.3		-2.82
		8.7						
	c	8.2	8.70	8.7	2.37	14.0		-2.93
		7.4						
	d	7.1	7.40	7.4	2.64	13.0		-2.96
	d'	7.9 8.2	8.20	8.2	2.32			
	e	8.7 9.0	9.00	9.0	2.27	13.8		-2.53?
	e'	9.6 9.9	9.90	9.9	1.57			
	f	9 10.2						
		9.7	10.30	10.4	2.07			
	g			10.7	1.84			
	h			11.7	1.16			
	k			12.1	1.22			
	l			12.8	0.80			
	m			13.0	0.83			
	n			13.7	0.72			
	o			13.8	0.69			
	p			14.0	0.80			
	q			n.s.	.			
					Curve	Mag.		
		7.9						
	gb	7.6			2:55	10.45	13.6	-2.94 10.66
		8.3						
	gc	8.0	8.30	8.3	2.42	10.72	13.8	-2.95 10.85
		8.7						
	gd	8.4	8.70	8.7	2.30	11.00	14.0	-2.95 11.05
11;00								

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1918phae.proj..694A

Monday Feb 17, 1919

Scale B

S W Cass

		NC 9938			Diff.			P.C	
2:25		Sc. 1	Mean	Sc 2.	diff.	Sc. 2 h	Sc. 2 g	diff.	Sc 2
	a	5.9 5.6			3.16	10.8	10.8	10.80 -1.74	11.6 -2.54
	b	6.2 5.9			3.28	11.7	11.6	11.65 -2.17	11.7 -2.22
	c	8.3 8.0	8.30	8.3	2.77	12.9	12.7	12.80 -1.73	35. -
	d	7.3 7.0			2.74	12.6	12.6	12.60 -2.56	12.6 -2.56
	d'	8.1 7.8			2.42	13.0	13.0	13.00 -2.48	13.2 -2.68
	e	8.5 8.2	8.55	8.6	2.72	13.4	13.2	13.30 -2.03	13.8 -2.53
	e'	9.3 9.0	9.35	9.4	2.12	13.7	13.9	13.80 -2.33	
	f	10.2 9.9	10.30	10.4	2.07				
	g			10.7	1.84				
	h	~~10.9~~		10.9	1.96				
	k			11.8	1.52				
	l			12.0	1.60				
	m	12.65	12.6	12.7	1.18				
	n	13.00	13.0	13.0	1.42				
	o	13.30	13.4	13.2	1.19				
	p	13.75	13.7	13.8	1.05				
	q	13.95	13.9	14.0	1.17				
	ja	7.9 7.6				2.70	10.60	12.6 12.8 12.70 -2.46	10.24 12.9 -2.62 10.28
	jc	8.1 7.8				2.64	10.74	12.8 12.8 12.80 -2.46	10.34 13.1 -2.63 10.47
	jd	8.3 8.0	8.25	8.2		2.60	10.85	12.6 13.0 12.80 -2.46	10.34 13.4 -2.62 10.78
2:55									

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1918phae.proj..694A

Monday Feb. 17, 1919.

Scale R U Cass.

MC 9938

	3:00	Sc.	Mean	Dc. 2	Curv.	Mag.
a		B				
b		B				
f'		3.5 +3.2				
f²		3.7 3.4				
f³		4.4 4.1				
c		6.85 6.7			2.98	9.78
d		6.1 5.8			3.17	9.27
e		5.6 5.3			3.28	8.88
f		6.7 6.4			3.02	9.72
f'		7.1 6.8			2.90	10.00
f²		7.5 7.2			2.80	10.30
f³		8.1 7.8			2.65	10.75
g		8.5 8.2	8.45	8.4	2.56	10.90
h		8.3 8.0	8.25	8.2	2.60	10.85
k		8.8 8.5	8.75	8.7	2.48	11.23
l		8.9 8.6	8.85	8.8	2.45	11.30
m		9.0 8.7	9.00	9.0	2.40	11.40
n		9.4 9.0	9.40	9.4	2.28	11.68
o		9.5 9.2	9.50	9.5	2.25	11.75
o'				10.2	2.06	12.08
p				11.0	1.80	12.80
q				10.5	1.97	12.47
r				10.7	1.90	12.60
s				11.4	1.67	13.07
t				11.4	1.67	13.07
u				11.8	1.53	13.33
w	4:00		11.65	11.6	11.7	1.59	13.24

Diff.

	Sc.	Sc. 2	Curv.	Mag.
	g	h		
	8.2	8.4	8.30	
	8.0	7.9		
	7.7	7.6	7.95	
	9.0	9.0	9.00	
	9.8	9.9	9.85	
	10.2	10.2	10.20	
	11.2	11.3	11.25	-2.02 9.23
	11.2	11.6	11.40	-2.08 9.32
	10.4	10.7	10.55	-2.11
	11.4	11.7	11.55	-2.14 9.31
	12.0	11.9	11.95	-2.29 9.66
	12.6	12.6	12.60	-2.44 10.16
	12.7	12.6	12.65	-2.44 10.21
	12.9	13.0	12.95	-2.43 10.52
	12.9	12.8	12.85	-2.46 10.39
	13.0	13.2	13.10	-2.42 10.68
	13.3	13.4	13.35	-2.37 10.98
	13.4	13.4	13.40	-2.35 11.05
	13.4	13.7	13.55	-2.32 11.28
	13.8	13.9	13.85	-2.24 11.61
x	12.2	12.2	12.20	1.42 13.62
y	12.7	12.8	12.75	1.28 14.03
z	13.3	13.2	13.25	1.20 14.45
&	13.8	13.8	13.80	1.10 14.90

P.C.

	Sc.	Sc. 2.	Curv.	Mag.
	8.0 7.7			
	7.7 7.4			
	9.1 8.8	9.1	9.10	
	9.3 9.0	9.4	9.35	
		10.6		
	11.8	-	-2.47	9.33
	11.2			
	10.8			
	11.8	-	2.47	9.33
	11.9	-	2.49	9.41
	12.7	-	2.60	10.10
R.	13.0	-	2.62	10.38
	13.7	-	2.60	11.10
	13.7	-	2.60	11.10

Diff. P.C.

	Sc.	Sc 2.		
	g	h		
	12.6	12.60		
b	11.8	11.8	11.80	
f'	13.7	13.7	13.70	
f²	13.9	13.8	13.85	
f³				

mag.

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Tuesday Feb 18, 1919

Scale B. U Cass.

		MC 9903				Diffr.		P.C	
9:25		Sc 1	Mean	Sc 2	Curvr	Mag	Curvr	Mag	Sc 2	Curvr.
	a	B				8.0 8.1 7.7 7.8 8.05		7.5 7.2		
	b	B				7.3 7.3 7.0 7.0 7.30		7.2 6.9		
	b'	3.2 2.9				8.2 8.3 8.25		8.9 8.80 8.6 8.7		
	b²	3.7 3.4				9.3 9.4 9.35		9.2 9.2 9.20 9.2		
	b³	4.1 3.8				10.2 10.0 10.10		10.4		
(edge)	c	5.9 6.2			3.20	9.40	10.7 10.7 10.70 -1.81	8.89	11.8 -2.48	9.32
	d	6.1 5.8			3.23	9.33	10.9 10.9 10.90 -1.88	9.02	11.4 -2.43	8.97
	e	5.7 5.4			3.30	9.00 R.	10.4 10.5 10.46 ~~-2.0~~		10.9 .	
	f	6.3 6.0			3.18	9.48	11.3 11.6 11.45 -2.06	9.39	11.8 -2.48	9.32
	f'	6.7 6.4			3.10	9.80	11.7 11.8 11.75 -2.16	9.59	12.10 -2.60	9.50
	f²	7.1 6.8			3.00	10.10	12.4 12.5 12.45 -2.32	10.13	12.6 -2.53	10.07
	f³	7.7 7.4			2.85	10.55	12.5 12.6 12.55 -2.33	10.22	13.0 -2.54	10.46 R
	g	7.9 7.6			2.78	10.68	12.7 12.7 12.70 -2.35	10.35	13.8 -2.53	11.27
	h	8.0 7.7			2.76	10.76	12.8 12.8 12.80 -2.36	10.44	13.7 -2.53	11.17
	k	8.2 7.9			2.70	10.90	13.2 13.2 13.20 -2.40	10.80		
	l	8.3 8.0	8.25	8.2	2.68	10.98	13.4 13.4 13.40 -2.42	10.98		
	m	8.5 8.2	8.55	8.6	2.57	11.88	13.4 13.6 13.50 -2.43	11.07		
	n	9.1 8.8	9.10	9.1	2.40	11.50	13.9 13.9 13.90 -2.44	11.46		
	o	9.2 8.9	9.25	9.3	2.36	11.61				
	o'	10.0 9.7	9.90	9.8	2.14	12.04				
	p			10.8	1.82	12.62				
	q			10.4	1.98	12.38				
	r			10.2	2.03	12.23				
	s			11.5	1.58	13.08				
	t			11.2	1.69	12.89				
	u			11.8	1.50	13.30				
10:25	w		11.50	11.6	11.4	1.58	12.98			

Diffr, PC

a	12.6	12.60	12.6		
b	12.7	14.55 12.4	1.28	13.83	11.8 11.80 11.8
b'	12.8	12.80 12.8	1.22	14.02	13.7 13.70 13.7
b²	13.6	13.60 13.6	1.08	14.68	14.0 14.00 14.0
b³	13.8	13.80 13.8	1.05	14.85	

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Tuesday Sept. 18, 1917

Scale R SW Area.

	MC 9903			Diffs.		PC	
10:25	Sc 1	Mean Sc 2	Diff.	g Scale	Diff.	Sc 1	Sc 2 Diff.
a	5 5.8 8.5		3.26	10.8	10.8 10.80 - 1.74		11.5 - 2.44
b	6.2 5.9		3.28	11.6 ~~10.5~~	11.7 11.65 - 2.17		11.8 - 2.22
c	8.1 7.8		2.97	13.4	13.4 13.40 - 2.33		13.7 - 2.63
d	7.18 6.8		2.94	12.5	12.5 12.50 - 2.46		12.8 2.76
d'	7.96 7.8		2.62	12.8	12.8 12.80 - 2.83		13.0 - 2.48
e	8.5 8.2	8.60	8.7 2.87	13.8	13.8 13.80 - 2.53		
e'	9.3 9.0 ~~8.9~~	9.45	9.6 2.02				
f			10.4 2.97				
g			10.7 1.84				
h			11.0 1.86				
k			11.8 1.52				
l			12.2 1.40				
m	12.75	12.7	12.8 1.08				
n	13.00	13.0	13.0 1.42				
o	13.50	13.5	13.5 0.99				
p	13.80	13.8	13.8 1.00				
q	7.8	14.00 14.0	14.0 1.12				
fb	8.5			2.81 10.61	12.8 12.6 12.55 - 2.33 10.22		13.4 - 2.54 10.86
gc	7.9 7.6			2.78 10.68	12.7 12.8 12.76 - 2.36 10.39		13.5 - 2.54 10.96
gd	8.2 7.9			2.70 10.90	12.8 13.2 13.00 - 2.39 10.61		13.9 - 2.53 11.47

10:50

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Wednesday Feb. 19, 1919

Scale R

SW Cass

MC 9891

		Sc.1	Mean	Sc.2	Diff.		Diff.			P.C. Sc.1	Sc.2	Diff
9:10												
	a	6.0 5.7			3.06							
	b	6.9 6.6			2.58							
	c	8.9 8.6	8.75	8.6	2.32							
	d	7.9 7.6			2.14							
	d'	8.6 8.3	8.60	8.6	1.92							
	e	9.2 8.9	9.20	9.2	2.07							
	e'	9.9 9.6	9.85	9.8	1.62							
	f			10.8	1.57							
	g			11.0	1.54							
	h			11.8	1.06							
	k			12.5	0.82							
	l	12.70	12.7	12.7	0.90							
	m	12.85	12.9	12.8	0.98							
	n	13.65	13.7	13.6	0.77							
	o	13.30	13.8	13.8	0.59							
	p	14.00	14.0	14.0	0.80							
	q	8.2		n.s.								
	jb	8.0	8.20	8.2	2.21	10.41	12.8	12.7	12.75 -2.60	10.15	13.7 -3.09	10.61
	jc	8.5 8.2	8.50	8.5	2.10	10.60	13.0	12.8	12.90 -2.62	10.28	13.8 -3.09	10.71
	jd	9.1 8.8	8.95	8.8	1.98	10.93	12.8	13.7	-		13.7 -3.09	10.81
9:45												

		Sc.1	Sc.2	Diff.
	q	11.6		
	h	11.6	11.60	-2.64
	k	11.8	11.80	-2.32
	l	13.8	13.85	-2.78
	m	12.8	12.80	-2.76
	n	13.2	13.10	-2.68
	o	13.8	13.80	-2.53

	Sc.1	Sc.2	Diff.
	11.8	12.2	-2.72
	14.0	14.0	-2.93
	13.0	13.0	-2.96
	13.8	13.8	-3.28

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Wednesday Feb. 19, 1919

Scale R — U Cas.

		MC 9891				Diffs		P.C.	
9:45		Sc.1	Mean	Sc.2	Curve. Mag.	q Sc.1 h.	Curve Mag.	Sc.1	Sc.2 - Curve Mag.
	a	R				8.1 8.0 8.05		8.1 7.8	8.1 8.10
	b	B				7.8 7.8 7.80		7.9 7.6	
	b'	3.1 2.8				8.4 8.3 8.35		9.5 9.2	9.6 9.55
	b2	3.9 3.6				9.8 10.0 9.90		9.9 9.6	9.9 9.90
	b3	5.0 4.7 ~~5.0~~				10.7 10.7 10.70			10.8
	c	7.0 6.7			2.59 9.59	11.6 11.6 11.60 -2.43	9.17	12.0 -2.77	9.23
	d	6.5 6.2			2.76 9.26	11.6 11.6 11.60 -2.43	9.17	11.7 ·	
	e	6.1 5.8			2.92 9.02 R.	11.4 11.3 11.35 ·		11.4 ·	
	f	6.9 6.6			2.62 10.52 9	11.7 11.7 11.70 -2.45	9.25	12.0 -2.77	9.23
	f'	7.1 6.8			2.55 9.65	12.0 12.0 12.00 -2.50	9.50	12.7 -2.95	9.75
	f2	7.9 7.6			2.30 10.20	12.6 12.7 12.65 -2.60	10.05	12.8 -2.98	9.82
	f3	8.2 7.9	8.20	8.2	2.21 10.41	13.0 12.9 12.95 -2.62	10.33	13.7 -3.09	10.61
	g	8.9 8.6	8.85	8.8	2.00 10.85	13.8 13.8 13.80 -2.67	11.13	14.0 -3.09	10.91
	h	8.6 8.3	8.60	8.6	2.07 10.67	13.6 13.6 13.60 -2.67	10.93	13.9 -309	10.81
	k	9.0 8.7	8.95	8.9	1.97 10.92	13.7 13.6 13.66 -2.67	10.98	13.8 -3.09	10.71
	l	9.2 8.9	9.15	9.1	1.90 11.05	13.8 13.8 13.80 -2.67	11.13		
	m	9.3 9.0	9.35	9.4	1.44 11.19	13.9 13.9 13.90 -2.67	11.23		
	n	9.8 9.5	9.80	9.8	1.71 11.51				
	o	10.0 9.7	10.00	10.0 ~~10.7~~	1.65 11.65				
	o'			10.7	1.45 12.15				
	p			11.7	1.16 12.86				
	q			10.8	1.40 12.20				
	r			10.8	1.40 12.20				
	s			11.7	1.16 12.86	x 12.8 12.80 12.8	.90 13.70		
	t			11.7	1.16 12.86	y 13.8 13.40 13.4	.78 14.18		
	u			12.2	1.04 13.24	z 13.7 13.70 13.7	.75 14.45		
10:45	w		11.80	11.8	1.13 12.93	& 14.0 14.00 14.0	.71 14.71		

Sc2 Diffs P.C.

a	12.7 12.8 12.75	
b	12.6 12.6 12.60	
b1	14.0 14.0 14.00	
b2	·	

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Wednesday Feb. 19, 1919.
Monday Feb. 24, 1919
S W Cass. Direct Estimates.

Ref. Plate 9938 MC.

				Mean Reduced Cl.		6:197
2:10	AC 17839	10.6	10.8	10.70	1 1 v	
3:10	AC 7712	10.2	10.2	10.20	v	
C.S. mag.	AC 7227	11.2	11.2	11.20	v	p. 11.15
a 9.1	AC 6744	10.9	11.0	10.95	0 1 v	
b 9.5	AC 7745	10.5	10.4	10.45	10 v	d
d 10.0	AC 6681	11.3	11.1	11.20	1 1 v	11.3 Ref. 11.20 11.15
d' 10.5	AC 12622	11.3	11.2	11.25 R	1 0 v	im. of var. t. p. to est.
c 11.1	AC 3127	11.0	11.1	11.05	0 1 v	
e 11.3	AC 5745	11.4	11.2	11.30	1 1 v	11.15
e' 11.5	AC 13312	11.1	11.0	11.05	1 0 v	
f	AC 6645	10.9	10.8	10.85	1 0 v	
g	AC 4335	10.2	10.2	10.20	v	
h	AC 3866	11.4	11.3	11.35 R	1 0 v	im. def.
k	AC 11255	10.2	10.2	10.20	v	
l	AC 8620	10.4	10.3	10.35	1 0 v	fg. 10.40
m	AC 1971	10.3	10.3	10.30	v	10.45
n	AC 3078	10.5	10.9	10.70	2 2 v	10.80
o	AC 656	10.4	10.8	10.60	2 2 v	
p	AC 11921	11.1	11.1	11.10	v	f.
q	AC 4092	10.9	10.9	10.90	v	
	AC 1883	10.6	10.5	10.55	0 1 v	10.80
	AC 3223	10.7	10.8	10.75	0 1 v	
	AC 11724	10.3	10.3	10.30	v	
	AC 4286	10.5	10.7	10.60	1 1 v	
	AC 20349	<10.5	11.5		v	p.
2:40						
3:30						

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Thursday Feb. 20, 1919

Monday Feb. 24, 1919

2 W Cass.

Mean. Rudgwick ch. G.M.T. 6:197

8:55	AC 9031	11.1	10.9	12.00 ½' ✓	
2:50	AC 2085	10.7	10.8	10.85 1.0 ✓	
	AC 12379	10.5	10.7	10.60 ½' ✓	11.0 reject 10.60
	AC 8682	10.8	10.9	10.85 0' ✓	10.90
	AC 15449	11.0	11.0	11.00 ✓	11.00
	AC 3060	11.1	11.2	11.15 0' ✓	
	AC 7769	10.2	10.4	10.30 ½' ✓	
	AC 11962	11.0	11.0	11.00 ✓	10.95
	AC 919	10.9	11.1	11.00 ½' ✓	
	AC 2751	10.5	10.6	10.55 0' ✓	
	AC 12528	10.3	10.4	10.35 0' ✓	
	AC 14745	10.8	10.8	10.80 ✓	
	AC 13233	10.5	10.5	10.50 ✓	
	AC 2141	10.2	10.3	10.25 0' ✓	p
	AC 13451	10.3	10.3	10.30 ✓	
	AC 2684	10.3	10.4	10.35 0' ✓	
	AC 1696	10.4	10.3	10.35 1.0 ✓	
	AC 12809	11.1	11.0	11.05 1.0 ✓	
	AC 2188	10.6	10.7	10.65 0' ✓	
	AC 3168	10.3	10.4	10.36 0.1 ✓	
	AC 15954	10.4	10.4	10.40 ✓	
	AC 19774	10.5	10.5	10.50 ✓	p
	AC 12322	n.s.	n.s.	✓	p
	AC 4355	10.9	10.9	10.90 ✓	10.85
	AC 11734	10.3	10.3	10.30 ✓	
9:15					
3:10					

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Thursday Feb. 20, 1919
Saturday Feb. 22, 1919
8 W Cass.

				Mean Ledger & C.F.H.	
					6:197
9:16	AC 5239	10.2	10.2	10.20 ✓	
2:35	AC 11302	11.0	11.1	11.05 0' ✓	
	AC 2077	10.8	10.8	10.80 ✓	
	AC 8760	11.1	11.1	11.10 ✓	10.90
	AC 14191	10.4	10.4	10.40 ✓	
	AC 18249	10.4	10.5	10.45 0' ✓	
	AC 5357	11.0	11.1	11.05 0' ✓	
	AC 11111	11.0	10.9	10.95 1' 0 ✓	
	AC 6933	11.1	11.0	11.05 1' 0 ✓	p. 11.00 very poor im.?
	AC 2964	10.9	10.9	10.90 ✓	
	AC 8637	11.1	11.1	11.10 ✓	
	AC 19273	10.6	10.5	10.55 1' 0 ✓	
	AC 12391	10.9	11.0	10.95 0' 1 ✓	
	AC 7096	10.4	10.4	10.40 ✓	10.25
	AC 3204	10.8	10.9	10.85 0' 1 ✓	
	AC 18042	10.2	10.2	10.20 ✓	
	AC 11077	10.5	10.5	10.50 ✓	10.45
	AC 2063	10.3	10.3	10.30 ✓	
	AC 7307	10.2	10.2	10.20 ✓	p.
	AC 17812	10.7	10.5	10.60 1' 1 ✓	
	AC 4128	11.0	10.5	10.75 3' 2 ✓	
	AC 5969	11.1	11.1	11.10 ✓	
	AC 12326	10.9	11.0	10.95 0' 1 ✓	
	AC 16142	11.1	11.1	11.10 ✓	p.
	AC 3289	10.3	10.4	11.35 0' 1 ✓	p.
9:35					
2:50					

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Thursday Feb. 20, 1919
Saturday Feb. 22, 1919
8 W Cocs.

		Peak	turned	Mean	Ledger ch. L.S.T.	
11:00	AC 13698	11.0	10.9	10.95 10 v		11.00
2:20	AC 17285	10.8	10.7	10.75 10 v		
	AC 14438	10.3	10.3	10.30 v		
	AC 1765	10.4	10.5	10.45 0 1 v		
	AC 8608	11.0	11.0	11.00 v		11.00
	AC 10859	10.9	10.5	10.70 2 2 v		10.90
	AC 18881	10.3	10.3	10.30 v		
	AC 7696	10.8	10.9	10.85 0 1 v		
	AC 15822	11.0	10.9	10.95 10 v		
	AC 11137	11.1	11.1	11.10 v		
	AC 19232	11.1	10.9	11.00 1 1 v	11.0	10.95
	AC 6815	10.3	10.2	10.25 0 1 v	g.	
	AC 15506	10.6	10.4	10.50 1 1 v		10.40
	AC 5520	10.5	10.5	10.50 v		
	AC 12546	10.7	10.8	10.75 0 # v	10.6	
	AC 7171	10.9	11.0	10.95 0 1 v		
	AC 10950	11.0	10.9	10.95 10 v		
	AC 16821	10.5	10.5	10.50 v		
	AC 19053	10.6	10.6	10.60 v		
	AC 14621	10.7	10.8	10.75 0 1 v		10.80
	AC 15803	10.9	11.1 R	~~10.~~ 11.00 1 1 v	10.9	10.90 00
	AC 4572	10.6	10.5	10.55 10 v		
	AC 6551	10.5	10.7	10.60 1 1 v		
	AC 7262	10.3	10.3	10.25 10 v	p.	
	AC 9060	11.3	11.2	11.25 10 v		11.10
11:15						
2:35						

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Thursday Feb. 20, 1919
Saturday Feb. 22, 1919
D W Cass.

				Mean Ledger & R.L.H.	6:197
11:15	AC 15812	11.2	11.1	11. 15 ^{10} ✓	
2:00	AC 5789	10.5	10.9	10. 70 $\frac{2}{2}$ ✓	
	AC 4172	10.3	10.4	10. 35 $^{0'}$ ✓	
	AC 13364	10.9	11.0	10. 95 $^{0'}$ ✓	
	AC 20225	10.7	10.8	10. 75 $^{0'}$ ✓	10.75
	AC 5015	10.5	10.5	10. 50 ✓	
	AC 10874	10.9	11.0	10. 95 $^{0'}$ ✓	
	AC 4618	10.2	10.3	10. 25 $^{0'}$ ✓	
	AC 19623	10.4	10.4	10. 40 ✓	10.80
	AC 2153	11.0	10.9	10. 95 $^{0'}$ ✓	
	AC 14270	10.9	11.1	11. 00 $\frac{1}{1}$ ✓	10.95
	AC 17791	11.0	10.8	10. 90 $^{1'}$ ✓	
	AC 3916	10.9	10.9	10. 90 ✓	
	AC 13326	10.5	10.6	10. 55 $^{0'}$ ✓	
	AC 7646.	10.9	10.5	R 10. 70 $\frac{2}{2}$ ✓	t.p. to est.
	AC 5127	N.S.	N.S.	✓	p.
	AC 14519	10.4	10.4	10. 40 ✓	
	AC 20597	10.8	11.1	10. 95 $\frac{1}{2}$ ✓	
	AC 6898	10.8	10.5	10. 65 $\frac{2}{1}$ ✓	
	AC 15607	11.1	11.3	11. 20 $\frac{1}{1}$ ✓	11.15
	AC 5280	10.5	10.9	R 10. 70 $\frac{2}{2}$ ✓	im. def. Cait est safely
	AC 10905	N.S.	N.S.	✓	p.
	AC 4911	11.0	10.8	10. 90 $^{1'}$ ✓	
	AC 14567	10.9	11.0	10. 95 $^{0'}$ ✓	
	AC 15548	11.1	11.2	11. 15 $^{0'}$ ✓	

11:30
2:15

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1918phae.proj..694A

Friday Feb. 21. 1919

~~Thursday Feb 20, 1919~~

1 W Cass.

Ledger ch. a.r.s.ft

				Mean.		6;197
2:10	AC 12179	10.9	10.8	10.85	10 ✓	
2:10	AC 2019	11.3	11.3	11.30	✓	11.25
	AC 10013	11.2	11.1	11.15	10 ✓	i. t. p. to sat.
	AC 9065	10.5	10.4	10.45	10 ✓	10.40
	AC 10948	11.0	10.9	10.95	10 ✓	
	AC 9939	10.8	10.7	10.75	10 ✓	p.
	AC 11291	10.3	10.3	10.30	✓	
	AC 13526	10.9	10.9	10.90	✓	
	AC 10852	10.4	10.5	10.45	0p ✓	
	AC 9168	10.3	10.2	10.25	10 ✓	
	AC 862	11.1	11.1	11.10	✓	g. ft.
	AC 14549	10.8	10.5	10.40	1' ✓	10.70
	AC 11033	10.5	10.7	10.60	1' ✓	
	AC 2777	10.8	11.0	10.90	1' ✓	
	AC 13007	10.2	10.3	10.25	0' ✓	
	AC 4524	11.3	11.3	11.30	✓	im blurred does not cp. with c. s.
	AC 7252	10.9	10.9	10.90	✓	p. 10.9 ? im. really to p. to sat d. & fl.
	AC 11190	10.2	10.5	10.35	1/2 ✓	
	AC 14702	10.8	10.8	10.80	✓	10.90
	AC 12674	11.0	11.1	11.05	0' ✓	11.05
	AC 7005	10.8	10.9	10.85	0' ✓	
	AC 11100	10.3	10.2	10.25	10 ✓	
	AC 6866	10.4	10.4	10.40	✓	
	AC 15529	10.3	10.2	10.25	10 ✓	
	AC 6635	10.2	10.3	10.25	0' ✓	
	AC 12558	11.3	11.3	11.30	✓	11.25
2:30						
2:25						

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1918phae.proj..694A

Friday Feb. 21, 1919

δ W Cass. Cadyan ch. R.A. ft.

				Mean.		
					6:197	
2:30	AC 6046	10.9	11.0	10.95 0' ✓	10.90	
1:55	AC 14483	10.3	10.3	10.30 ✓		
	AC 5096	10.3	10.2	10.25 10' ✓		
	AC 13549	10.5	10.5	10.50 ✓		
	AC 5476	10.7	10.6	10.65 10' ✓		
	AC 15718	11.0	11.1	11.05 0' ✓		
	AC 6479	10.9	10.7	10.80 1' ± ✓	10.7	uncertain in im. def? very ft.
	AC 12703	10.5	10.4	10.45 10' ✓	10.40	
	AC 16850	10.8	10.9	10.85 0' ✓	10.85	
	AC 13413	10.2	10.2	10.20 ✓		
	AC 5640	11.2	11.2	11.20 ✓	11.20	
	AC 14284	10.2	10.2	10.20 ✓		
	AC 19573	10.4	10.3	10.35 10' ✓		
	AC 9202	10.7	10.7	10.70 ✓		
	AC 13642	10.9	11.1	11.00 1' ± ✓	10.95	
	AC 5780	11.0	11.0	11.00 ✓		
	AC 12663	10.9	10.8	10.85 10' ✓		
	AC 5503	11.2	11.3	11.25 0' ✓	11.15	
	AC 5785	10.7	10.8	10.75 0' ✓		
	AC 2650	11.3	11.1	11.20 1' ± ✓		
	AC 5386	10.8	10.9	10.85 0' ✓		
	AC 12543	10.2	10.3	10.25 0' ✓		
	AC 6501	10.5	10.5	10.50 ✓	10.4	im. very poor
	AC 8814	10.9	11.0	10.95 0' ✓	11.00	
	AC 6158	10.3	10.4	10.35 0' ✓		
	AC 13611	10.5	10.5	10.50 R ✓	t.p. to est.	
2:50	AC 1996	11.1	11.1	11.10 ✓	10.80	
2:10						

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Thursday Feb. 27, 1919

SW Cass.

				Mean. Ledgw. ch. R.R.H.
9:40	I 9732	10.7	10.9	10.80 ✓
10:40	I 7450	10.6	10.8	10.70 ✓
	I 1589	10.3	10.4	10.35 ✓
	I 17133	11.1	11.1	11.10 ✓
	I 9151	11.1	11.1	11.10 ✓
	I 9329	10.4	10.4	10.40 ✓
	I 11592	10.3	10.3	10.30 ✓
	I 12062	11.2	11.3	11.25 ✓
	I 10516	10.5	10.6	10.55 ✓
	I 15890	11.1	11.2	11.15 ✓
	I 11838	10.9	10.9	10.90 ✓
	I 10672	11.2	11.2	11.20 ✓
	I 18744	11.3	11.3	11.30 ✓
	I 12021	10.4	10.4	10.40 ✓
	I 11465	10.5	10.5	10.50 ✓
	I 9352	10.9	11.2	11.05 ✓
	I 21519	11.0	11.3	11.15 ✓
	I 7449	10.3	10.4	10.35 ✓
	I 23500	11.3	11.3	10.30 ✓
	I 11457	10.4	10.7	10.55 ✓
10:00				
10:55				

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1918phae.proj..694A

Friday Feb. 21, 1919

Scale R. Pole and U Cassiop. Series 593

MC 9887

10:20 P.C. Pole.

	Sc. 1	Mean	Sc 2	Mean	Obs Diff.
5	8.0 7.7				8.10 - 1.61
6	8.6 8.3	8.65	8.7		8.85 - 1.74
8			10.8		10.75 - 2.52
9			11.6		11.70 - 2.87
10	11.80	11.8	11.8		11.75 - 2.73
11	12.70	12.9	12.7		12.68 - 3.13
12	13.30	13.4	13.2		13.12 - 3.26
13	13.70	13.7	13.7		13.65 - 3.35
14	14.00	14.0	14.0		13.95 - 3.30

MC 9892 Alt Corr. +.18

P.C Pole

	Sc. 1 & Sc 2	Mean
	8.2 7.9	
	9.0 8.7	9.1 9.05
	(10.7)	
		11.8
	(11.7)	
	12.7	12.6 12.65
	(13.0) 12.9	12.95
	13.6	13.6 13.60
	13.7	13.7 13.90

MC 9891 P.C. U Cass.

	Sc. 1	Sc 2	Curv	Mag.
a	8.0 7.7		-1.52	6.48
b	7.8 7.5			
b'	9.1 8.8	9.15 9.2	-1.90	7.25
b²	9 9.8 8.5	9.80 9.8	-2.03	7.77
b³		10.8	-2.52	8.28
c	~~12.0~~	12.0	-2.93	9.07
d	11.70	11.7 11.7	-2.84	8.86
e	11.55	11.5 11.6	-2.80	8.75
f	12.30	12.2 12.2	-3.00	9.20
f'	12.65	12.6 12.7	-3.12	9.53
10:50 f²				
f³				
g				
h				

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1918phae.proj:.694A

Friday Feb. 21, 1919

Scale R

Pole and V Cassiop. Series 594

	MC 9902					MC 9909			Alt. Cor. +.20
11:00	P.C. Pole			2 Poles		P.C. Pole.			
	Sc. 1	Mean	Sc 2	Mean	Diff.	Sc. 1	Sc 2	Mean	
5	7.9 7.6			7.85	-1.36	7.8 7.5			
6	8.7 8.6	8.70	8.7	8.62	-1.51	8.5 8.2	8.6	8.55	
8			10.2	10.40	-2.17		10.6		
9			10.9	10.95	-2.12		11.0		
10			11.7	11.70	-2.68	Sc 2	11.7		
11		12.25	12.3 12.2	12.40	-2.85		12.6 12.5	12.55	
12		12.80	12.8 12.8	12.80	-2.94		12.8 12.8	12.80	
13		13.30	13.4 13.2	13.25	-2.95		13.2 13.2	13.20	
14		13.85	13.9 13.8	13.88	-3.23		13.9 13.9	13.90	

MC 9903

P.C. V Cass

				Curve	Mag.
a	7.8 7.5			-1.35	6.46
b	7.2 6.9				
f'	8.9 8.6	8.85	8.8	-1.60	7.25
f²	9.3 9.0	9.30	9.3	-1.75	7.55
f³			10.4	-2.11	8.29
c			11.8	-2.65	9.15
d		11.00	11.0 11.0	-2.35	8.65
e		10.75	10.7 10.8	-2.25	8.50
f		11.95	11.9 12.0	-2.72	9.23
g		12.20	12.2 12.2	-2.79	9.41

11:25

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1918phae.proj..694A

Saturday Feb. 22, 1919

Scale R. Pole and U Crossings. Series 166

	MC 4355				MC 4360		Alt. Corr. +.20
9:05	P.C. Pole		Sc. 2	Mean. Diff.	P.C. Pole		
5	8.3 Dec. 8.6	8.65	8.7	8.72 -2.29	8.6 8.9	8.9	8.90
6	9.2 9.5	9.50	9.5	9.65 -2.54	9.5 9.8	9.8	9.80
8			11.2	11.40 -3.17		11.6	
9			11.8	12.10 -3.27		12.4	
10			12.5	12.60 -3.58		12.7	
11		12.80	12.8	12.8 13.05 -3.50	13.2	13.4	13.30
12		13.20	13.2	13.28 13.40 -3.54	13.6	13.6	13.60
13		13.70	13.7	13.7 13.75 -3.45	13.8	13.8	13.80
14		13.90	14.0	13.8 13.90 -3.25		U.S.	

MC 4357 9

	P.C. UCross.			Curve Mag.
a	8.1 7.8			
b	7.7 7.4			
b'	9.1 8.8	9.10	9.1	-2.37 6.83
b²	9.9 9.6	9.90	9.9	-2.64 7.26
b³			10.8	-2.94 7.86
c			12.4	-343 8.97
d		12.00	12.0	12.0 -3.33 8.67
e		11.60	11.6	11.6 -3.21 8.39
f		12.65	12.6	12.7 -3.50 9.15
f'		12.80	12.8	12.8 -3.51 9.29

9:30

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1918phae.proj..694A

Saturday Feb. 22, 1919.

Scale R. Pole and UCassiop. Series 597

MC 9936 MC 9941 Alt Corr +.21

	P.C. Pole			Mean. Diff.	P.C. Pole		
9:35					8.3		
	8.5			42			
5	8.2	8.55	8.6	8.68 − 1.93	8.0	8.3	8.30
	7.1				9.0		
6	8.8	9.15	9.2	9.08 − 1.97	8.7	9.0	9.00
					10.1		
8			10.7	10.45 −2.22	9.8	10.3	10.20
9			11.6	11.40 −2.57		11.2	
10			11.8	11.65 −2.63		11.5	
11		12.60	12.6	12.6 12.30 −2.75		12.0	12.0 12.00
12		12.80	12.8	12.8 12.72 −2.86		12.7	12.6 12.65
13		13.10	13.2	13.0 12.95 −2.65		12.8	12.8 12.80
14		13.70	13.7	13.7 13.65 −3.00		13.6	13.6 13.60

MC 9938

	P.C. UCass.			Curv Neg.
	8.0			
a	7.7			
	7.7			
b	7.4			
	9.1			
b'	8.8	9.15	9.2	−2.00 7.15
	9.6			
b^2	9.3	9.60	9.6	−2.08 7.52
	10.1			
b^3	9.8	10.20	10.3	−2.24 8.96
c			11.8	−263 9.07
d		11.50	11.4	11.6 −2.68 8.92
e		10.76	10.7	10.8 −2.40 8.35
f		11.80	11.8	11.8 −2.65 9.15
f'		12.10	12.2	12.0 −2.71 9.39

10:00

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1918phae.proj..694A

Thursday Feb. 27, 1919.
Thursday Mar. 6, 1919

Ref. Plate MC4359

V Cass.

				Mean Ledger a. L.S.H.
	11:20 2:55	AC 13698	12.4 12.5	12.45 ^{01} ✓
CS.	mag. ~~2:30~~ 7	AC 17285	12.8 12.6	12.70 ^{1} ✓
a	6.5	AC 14438	10.9 11.1	11.00 ^{1} ✓
b'	7.3	AC 1765	<11.4 <11.1	<11.1 ✓
b^2	7.5	AC 8608	12.3 12.4	12.35 ^{01} ✓
b^3	8.3	AC 10859	<11.1 <11.1	<11.1 ✓
e	8.6	AC 18881	<11.7 <11.7	<11.7 ✓
d	9.0	AC 7696	10.6 10.4	10.50 ^{1} ✓
c	9.3	AC 15822	13.0 13.0	13.00 ✓
f	9.4	AC 11137	<12.4 <12.3	<12.3 ✓
f'	9.6	AC 19232	9.4 9.3	9.35 ^{0} ✓
f^2	10.1	AC 6815	9.8 9.9	9.85 ^{01} ✓
f^3	10.4	AC 15506	11.0 11.3	11.25 ^{01} ✓
g	10.7	AC 5620	<11.1 <11.1	<11.1 ✓
h	10.7	AC 12576	12.5 12.4	12.45 ^{10} ✓
k	10.9	AC 7171	11.3 11.7	11.50 ^{2} ✓
l	11.0	AC 10950	12.4 12.0	12.20 ^{2} ✓
m	11.1	AC 19053	8.5 8.4	8.45 ^{10} ✓
n	11.4	AC 15803	<12.4 <12.1	<12.1 ✓
o	11.7	AC 4572	10.7 10.6	10.65 ^{0} ✓
o'	12.1	AC 6551	<12.8 <12.4	<12.4 ✓
q	12.4	AC 7262	11.6 <11.1	<11.1 ✓ d.
p	12.8	AC 9060	12.7 12.7	12.70 ✓
t, s.w.	13.0	AC 15812	<12.3 <12.3	<12.3 ✓
w	13.3	AC 5789	11.5 11.5	11.50 ✓
x	13? 11:45			
y	14.0 3:15			
z	14.5			
a	14.8			

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Thursday Feb. 27, 1919
Thursday Mar. 6, 1919

U Cass.

				Mean Ledger d. L.C.T.
2:10	AC 4172	11.0	11.1	11.05 0' ✓
2:30	AC 13364	10.7	10.7	10.70 ✓
	AC 20225	10.8	10.7	10.75 10 ✓
	AC 5015	10.8 4	10.4	10.40 ✓
	AC 10874	<11.7	<11.7	<11.7 ✓
	AC 4618	10.6	10.6	10.60 ✓
	AC 19623	<12.4	<12.4	<12.4 ✓
	AC 2153	9.6	9.8	9.70 ±1 ✓
	AC 14270	<11.7	<11.7	<11.7 ✓
	AC 17791	<11.1	<11.1	<11.1 ✓
	AC 3916	<12.8	<12.8	<12.8 ✓
	AC 13326	10.3	10.5	10.40 ±1 ✓
	AC 7646	9.3	9.2	9.25 10 ✓
	AC 5127	8.6	8.8	8.70 ±1 ✓
	AC 14579	10.4	10.4	10.40 ✓
	AC 20597	<10.4	<10.4	<10.4 ✓
	AC 6898	9.5	9.6	9.55 0' ✓
	AC 15607	12.4	12.6	12.50 ±1 ✓
	AC 5280	10.5	10.6	10.55 0' ✓
	AC 10905	<11.1	<11.1	<11.1 ✓
	AC 4711	<11.1	<11.4	<11.1 ✓
	AC 14567	9.3	9.2	9.25 10 ✓
	AC 18548	9.4	9.4	9.40 ✓
	AC 6744	9.9	10.2	10.05 ±2 ✓
2:35	AC 14621	8.4	8.6	8.50 ±1 ✓
2:50				

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1918phae.proj..694A

Friday Feb. 28, 1919
Friddy March 7, 1919
UCass.

				Mean Ledger ch. L.R.H.
10:00	AC 5239	10.0	9.9	9.95 ' 0 ✓
8:55	AC 11302	11.1	11.2	11.15 ' 0 ' ✓
	AC 2077	10.5	10.2	10.35 2 1 ✓
	AC 8760	9.3	9.3	9.30 ✓
	AC 14191	<12.4	<11.7	<11.7 ✓
	AC 18249	11.1	10.7	10.90 2 2 ✓
	AC 5357	11.7	11.7	11.70 ✓
	AC 11111	<12.4	<12.3	<12.3 ✓
cp. with wrong star of 3	AC 6933	~~10.4~~ 9.5	9.5	9.50 ✓
	AC 2964	10.3	10.2	10.25 ' 0 ✓
	AC 8637	10.7	10.7	10.70 ✓
	AC 19273	10.1	10.0	10.05 ' 0 ✓
	AC 12391	8.4	8.4	8.40 ✓
	AC 7096	10.4	10.1	10.25 2 1 ✓
	AC 3204	13.0	13.0	13.00 ✓
	AC 18042	<12.3	<12.3	<12.3 ✓
	AC 11077	<10.9	<10.9	<10.9 ✓
	AC 2063	11.1	11.1	11.10 ✓
	AC 7307	<12.3	<12.4	<12.3 ✓
	AC 17812	~~11.9~~ 11.9	11.9	11.90 ✓
	AC 4128	11.3	11.4	11.35 ' 0 ' ✓
	AC 5965	10.3	10.1	10.20 ' 1 ✓
	AC 12326	<11.7	<11.7	<11.7 ✓
	AC 16142	10.2	10.2	10.20 ✓
	AC 3289	<11.7	<11.7	<11.7 ✓
10:20				

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Friday Feb. 28, 1919.
Friday March 7, 1919
V Cass.

				Mean	Ledger & R.F.H.
10:20	AC 9031	11.7	~~11.8~~ 11.5	11.60 1 ✓	Reexamined
	AC 2085	10.3	10.3	10.30 ✓	
	AC 12379	8.6	8.9	8.75 1 2 ✓	
	AC 8682	10.5	10.4	10.45 1 0 ✓	
	AC 15249	10.6	10.5	10.55 1 0 ✓	
	AC 3060	11.4	11.4	11.40 ✓	d.
	AC 7769	11.3	11.3	11.30 ✓	
	AC 11962	10.2	10.2	10.20 ✓	
	AC 9.9	<11.7	<12.4	<11.7 ✓	
	AC 2751	10.7	10.9	10.80 1 1 ✓	
	AC 14745	10.1	10.0	10.05 1 0 ✓	
	AC 13233	8.9	8.5	8.70 2 2 ✓	
	AC 2141	9.8	9.9	9.85 0 2	p.
	AC 13451	11.4	11.6	11.50 1 1 ✓	
	AC 2684	12.3	12.3	12.30 ✓	
	AC 1696	<11.1	11.2	<11.1 ✓	
	AC 12809	9.9	10.0	9.95 0 1 ✓	p.
	AC 2188	9.6	9.8	9.70 1 1 ✓	
	AC 3168	<12.4	<11.1	<11.1 ✓	
	AC 15954	11.4	11.5	11.45 0 1 ✓	
	AC 19774	13.3	13.0	13.15 2 1 ✓	i.
	AC 12322	<10.1	<10.4	<10.4 ✓	
	AC 4355	9.3	9.3	9.30 ✓	
	AC 11734	<11.4	<11.4	<11.4 ✓	
	AC 16821	9.2	8.8	9.00 2 2 ✓	
10:40					
9:40					

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Friday Feb. 28, 1919
Friday March 7, 1919
V Cass.

Ledger at E.E.St.

				Mean.
10:45	AC 12179	10.3	10.7	$10.60^{\pm 2}$ v
1:50	AC 2019	11.4	11.4	11.40 ✓
	AC 10013	9.5	9.4	9.45^{10} v
	AC 9065	12.4	12.5	12.46^{01} v
	AC 10948	12.5	12.4	12.45^{10} v
	AC 9939	9.8	10.3	$10.05^{\pm 3}$ ✓
	AC 11291	11.3	11.3	11.30 ✓
	AC 13526	13.0	13.0	13.00 ✓
	AC 10852	<11.1	<11.4	<11.1 ✓
	AC 9168	<11.7	<11.7	<11.7 ✓
	AC 862	10.7	10.9	10.80^{11} ✓
	AC 14549	10.3	10.3	10.30 ✓
	AC 11033	<11.4	<12.1	<11.4 ✓
	AC 2777	10.5	10.4	10.45^{10} ✓
	AC 12007	9.5	9.7	9.60^{11} ✓
	AC 4524	9.6	9.9	$9.75^{\pm 12}$ ✓
	AC 7252	<11.1	<11.4	<11.1 ✓
	AC 11190	12.1	<11.7	<11.7 ✓ d.
	AC 14702	9.2	9.1	9.15^{10} ✓ R'
	AC 12674	12.5	12.6	12.55^{01} ✓
	AC 7005	9.8	9.8	9.80 ✓
	AC 11100	12.8	12.8	12.80 ✓
	AC 6866	9.5	9.9	$9.70^{\pm 2}$ ✓
	AC 15529	11.5	11.3	11.40^{11} ✓
	AC 6635	<12.4	<12.4	<12.4 ✓
11:05				
2:10				

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1918phae..proj..694A

Saturday Mar. 1, 1919
Friday March 7, 1919
V Cass.

Mean Ledger ch R.A.H.

2:05	AC 12558	13.0	13.0	13.00 ✓
9 10:55	AC 6046	10.0	10.1	10.05 01 ✓
	AC 14483	10.4	10.4	10.40 ✓
	AC 5096	9.4	9.1	9.25 21 ✓
	AC 13549	<12.1	<11.7	<11.7 ✓
	AC 5476	12.6	<12.4	<12.4 ✓
	AC 15718	12.8	<12.4	<12.4 ✓
	AC 6479	<10.7	<10.7	<10.7 ✓
	AC 12703	12.4	12.5	12.45 01 ✓
	AC 16850	8.3	8.4	8.35 01 ✓
	AC 13413	11.2	11.0	11.10 11 ✓
	AC 5640	<13.0	<13.4	<12.4 ✓
	AC 14284	<11.7	<11.4	<11.4 ✓
	AC 19573	13.0	12.7	12.85 21 ✓
	AC 9202	<12.4	<12.4	<12.4 ✓
	AC 13642	<12.4	<12.3	<12.3 ✓
	AC 5780	12.6	12.4	12.50 11 ✓
	AC 12663	12.8	12.8	12.80 ✓
	AC 5503	<12.4	<11.7	<11.7 ✓
	AC 5785	9.3	9.3	9.30 ✓
	AC 2650	<12.3	<12.3	<12.3 ✓
	AC 5386	12.4	12.3	12.35 10 ✓
	AC 12543	12.4	12.0	12.20 22 ✓
	AC 6501	<11.1	<11.1	<11.1 ✓
	AC 8814	9.5	9.7	9.60 11 ✓
2:30				
10:10				

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1918phae.proj..694A

Saturday Mar. 1, 1919
Friday March 7, 1919
V Cass.

				Means Ledger Ch. L.R.H.	
2:25	AC 12528	11.4	11.6	11.50 -1'	✓
2:15	AC 7712	10.3	10.3	10.30	✓
	AC 7227	<11.7	<12.4	<11.7	✓
	AC 7145	11.4	11.4	11.40	✓
	AC 6681	11.9	12.1	12.00 -1'	✓
	AC 12625	11.9	<11.7	<11.7	✓
	AC 3127	12.8	12.8	12.80	✓
	AC 5745	12.0	11.9	11.95 -10	✓
	AC 13312	10.0	10.1	10.05 -01	✓
	AC 6645	12.1 11.6	12.1	12.10	✓ Reexamined
	AC 4335	9.4	9.4	9.40	✓
	AC 3866	<11.7	<12.3	<11.7	✓
	AC 11255	11.4	11.5	11.45 -01	✓
	AC 8620	<11.1	<11.1	<11.1	✓
	AC 1971	13.1	13.0	13.05 -10	✓
	AC 3078	12.8	<12.4	<12.4	✓
	AC 656	<12.8	<12.8	<12.8	✓
	AC 11921	10.7	10.7	10.70	✓
	AC 40921	11.4	11.6	11.50 -1'	✓
	AC 1883	<12.4	<12.4	<12.4	✓
	AC 3203	<12.4	<12.4	<12.4	✓
	AC 11724	<11.7	<11.7	<11.7	✓
	AC 4286	10.0	10.3	10.15 -12	✓
	AC 20349	<10.4	<10.4	<10.4	✓
	AC 17839	12.8	12.4	12.60 -22	✓
	AC 5158	9.1	9.3	9.20 -1'	✓
	AC 12611	<11.1	<11.1	<11.1	✓
2:45 2:30	AC 1996	12.4	12.4	12.40	✓

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Saturday March 8, 1919.

U Cass.

				Mean Ledger ch. R.A. H.
9:15	D 11370	10.1	10.2	10.15 $^{0'}$ v
2:10	D 18744	8.3	8.2	8.25 ^{10} v
	D 9732	10.6	10.4	10.50 $^{1\frac{1}{2}}$ v
	D 7450	12.2	12.1	12.15 ^{10} v
	D 1589	12.6	12.5	12.55 ^{10} v
	D 17133	8.4	8.1	8.25 $^{2\frac{1}{2}}$ v
9.30	D 9151	<12.8	<12.8	<12.8 v
9:40	D 9329	13.2	13.2	13.20 v
	D 11592	13.0	13.0	13.00 v
	D 12062	12.8	13.0	12.90 $^{1\frac{1}{2}}$ v
	D 10516	11.6	11.6	11.60 v
	D 15890	13.2	13.2	13.40 v
	D 11838	<13.3	<13.3	<13.3 v
	D 10672	12.7	12.7	12.70 v
	D 11465	11.9	12.0	11.95 $^{0'}$ v
	D 12021	13.4	13.4	13.40 v
	D 9352	13.2	13.1	13.15 ^{10} v
	D 21517	10.7	11.1	10.90 $^{2\frac{1}{2}}$ v
	D 7449	11.9	11.9	11.90 v
	D 23580	10.3 ~~9.8~~	10.3	10.30 v Reexamined.
9:55	D 11457	11.4	11.9	11.65 $^{\frac{1}{2}5}$ v
2:30				

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Sheet no. 434

Monday, Feb. 24, 1919

Scale R.

MC Series 814

MC 13189

9:50

	Dc. 1	Mean	Dc. 2	Pole			Diff.			P.C.		
				copied fr. p. 150	Mean	Diff.	copied fr. p. 150	Mean	Dc. 2 less Dc. 1	Mean	Diff. Dc. 2	from p. 150	Mean	Diff
	2.8													
5	2.5			2.7	2.75	3.74	8.80	8.85	9.8 8.9	8.82	-2.33	10.5	10.6	10.55-4.06
	4.1													
6	3.8			3.6	3.85	3.26	9.95	9.75	9.7 9.8	9.85	-1.74	11.6	11.7	11.65-4.54
	5.9													
8	5.6			5.2	5.55	2.68	11.75	11.70	11.7 11.7	11.72	-3.49	12.8	12.9	12.85-4.62
	7.0													
9	6.7			7.0	7.00	1.83	12.70	12.45	12.5 12.4	12.58	-3.75	13.7	13.7	13.70-4.87
	7.3													
10	7.0			6.9	7.10	1.92	12.80	12.75	12.7 12.8	12.78	-3.76	13.9	14.0	13.95-4.93
	8.2													
11	7.9	8.20	8.2	8.05	8.12	1.43	13.50	13.10	13.2 13.0	13.30	-3.75			
	8.7													
12	8.4	8.70	8.7	8.80	8.75	1.11	13.85	13.60	13.6 13.6	13.72	-3.86			
	9.4													
13	9.1	9.40	9.4	9.70	9.55	.75		13.85	13.9 13.8	13.85	-3.55			
	9.8													
14	9.5	9.90	10.0	10.0	9.95	.50								
15			10.7	10.7	10.70	.38								
16			10.9	11.0	10.95	.45								
17			11.6	11.6	11.60	.03								
18			12.0	12.2	12.10	-.04								
19			12.7	12.7	12.70	-.28								
20		12.90	12.9	12.9	12.90	12.90	-.17							
23		13.45	13.5	13.7	13.70	13.58	-.24							
25		13.90	13.9	13.9	14.00	13.95	-.08							
26			n.s.											
27			"											
28			"											
29			"											

10:20

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Scale B MC. Series 8:4 Alt. Cor. +.21

MC 13:90 2 Cassiop. $23^h 30^m +55.^\circ 0$

10:20

	Dec'	Mean.	Sc 2	Curve	Mag.	Mean.	Diff.			Curve	Mag.	P.C. Sc. 2
	8.0											
a	7.7			1.50	9.50	12.90	12.9	12.7	-3.75		9.15	
	8.9											
b	8.6	8.80	8.7	1.13	9.93	13.80	13.8	13.8	-3.60		10.20	
	8.4											
c	8.1	8.35	8.3	1.35	9.70	13.30	13.3	13.3	-3.72		9.58	
	9.9											
d	9.6	9.96	10.0	.58	10.63							
	9.1											
e	8.8	9.05	9.0	1.00	10.05	13.80	13.8	13.8	-3.60		10.50	
	10.1											
f	9.8	10.20	10.3	.48	10.68							
g			10.4 ~~9.8~~	.39	10.79							
h			10.8	.26	11.06							
k			11.0	.21	11.21							
l			10.8	.26	11.06							
m			11.8	.00	11.80							
n			11.7	.02	11.72							
n'			11.8	.00	11.80							
o		double,		.	.							
o'			10.6	.33	10.93							
p			12.9	-.20	12.70							
q		13.20	13.2	13.2	-.21	12.99						
Wrong star mean.	~~q'~~	~~12.95~~	~~12.9~~	~~13.0~~								
r		12.70	12.7	12.7	-.19	12.61						
s		14.00	14.0	14.0	-.15	13.85						
t				n.s.								
10:40 q'				13.9	-.16	13.74						

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1918phae.proj..694A

Monday Feb. 24, 1919

Scale R. MC Series 814

MC 13194 Pole

10:40

	Dc1	Mean	Sc2	Diffs. Mean	Diffs. Seah	P.C. Sc 2
	2.7					
5	2.4			8.80	8.8 8.8	10.6
	3.6					
6	3.3			9.95	9.9 10.0	11.7
	5.2					
8	4.9			11.75	11.8 11.7	12.9
	7.0					
9	6.7			12.70	12.7 12.7	13.7
	6.9					
10	2.6			12.80	12.8 12.8	14.0
	8.1					
11	7.8	8.06	8.0	13.50	13.5 13.5	
	8.8					
12	8.5	8.80	8.8	13.86	13.8 13.9	
	9.7					
13	9.4	9.70	9.7			
14			10.0			
15			10.7			
16			11.0			
17			11.6			
18			12.2			
19			12.7			
20		12.90	12.9 12.9			
23		13.70	13.7 13.7			
25		14.00	14.0 14.0			
26			ms.			
27						
28						
29						

11:00

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Tuesday Feb. 25, 1919

Scale R. MC Series 861

MC 13870 Pole

50
9:45

	Sc. 1	Mean	Sc. 2	Diffn. g sc. h	P.C. Sc. 2
5	3.7 3.4			8.9 9.0 8.95	10.7
6	4.7 4.3			10.0 10.2 10.10	11.7
8	6.3 6.0			11.7 11.6 11.65	13.0
9	7.1 6.8			12.5 12.5 12.50	13.8
10	7.7 7.4			12.6 12.7 12.65	14.0
11	8.5 8.2	8.50	8.5	13.4 13.4 13.40	
12	8.9 8.6	8.85	8.8	13.7 13.7 13.70	
13	9.7 9.4	9.70	9.7	13.9 13.9 13.90	
14	10.0 9.7	10.10	10.2		
15			10.8		
16			11.0		
17			11.7		
18			12.0		
19			12.5		
20		12.80 12.8	12.6		
23		13.45 13.4	13.5		
25		13.90 13.9	13.9		
26			h.s.		
27					
28					

10:20

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Scale R. MC series Sc. 1 Alt. Cor. +.21

MC 13875 Z Cassiop. 0 06 23 30 +55.0

10:20

	Sc.1	Mean.	Sc.2	Curve	Mag.	Diffs. g&c. & h	Curve	Mag.	P.C. b.2
a	8.0 7.9	8.00	8.0	1.25	9.25	12.8 12.8	12.80	-3.70 9.10	
b	8.9 8.6	8.85	8.8	.96	9.81	13.7 13.7	13.70	-3.73 9.97	
c	8.2 7.9	8.25	8.3	1.17	9.42	13.0 13.0	13.00	-3.71 9.29	
d	9.9 9.6	9.95	10.0	.60	10.55				
e	9.0 8.7	9.00	9.0	.90	9.90	Star ~~13~~ 13.9	13.9	-3.72	10.18
f	10.1 9.8	10.20	10.8	.50	10.70				
g			10.7	.38	11.08				
h			10.6	.40	11.00				
k			11.0	.30	11.30				
l			10.6	.40	11.00				
m			11.7	.14	11.84				
n			double	.14	11.84				
n'			11.8	.10	11.90				
o			double	.?					
o'			10.8	.35	11.15				
p			12.9	-.09	12.81				
q			12.5	-.03	12.47				
q'			~~14.8~~ 13.7	-.17	13.53				
r		12.80	12.8	12.8	-.08	12.72			
s		13.70	13.7	13.7	-.17	13.53			
t		14.00	14.0	14.0	-.20	13.80			
u				n.s					
10:45. w				"					
x				"					
y									

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1918phae.proj..694A

Sheet no. 435 Tuesday Feb. 25, 1919

Ecole B. MC Series 8-61

MC 13876 Pole

10:45

	Sc. 1	Mean.	Sc. 2	From p.151	Mean.	Diff.	Diff: glass to	From p.151	Mean.	Diff.	B.C. Sc. 2	Mean.	Diff.
	3.4												
5	3.1			3.7	3.55	2.94	9.0	9.1	9.05	8.95	9.00	-2.51	10.6 10.7 10.65 -4.16
	4.6												
6	4.3			4.7	4.65	2.46	10.1	10.0	10.05	10.10	10.08	-2.97	11.6 11.7 11.65 -4.54
	6.5												
8	6.2			6.3	6.40	1.83	11.6	11.6	11.60	11.65	11.62	-3.39	12.9 13.0 12.95 -4.72
	7.3												
9	7.0			7.1	7.20	1.63	12.6	12.5	12.55	12.56	12.52	-3.69	13.6 13.8 13.70 -4.87
	7.7												
10	7.4			7.7	7.70	1.32	12.7	12.8	12.75	12.65	12.70	-3.68	13.8 14.0 13.90 -4.88
	8.3												
11	8.0	8.35	8.4	8.50	8.42	1.13	13.2	13.3	13.25	13.40	13.32	-3.77	
	9.0												
12	8.7	8.95	8.9	8.85	8.90	.96	13.7	13.6	13.65	13.70	13.68	-3.82	
	9.7												
13	9.4	9.65	9.6	9.70	9.68	.62	13.9	14.0	13.95	13.90	13.92	-3.62	
	10.1												
14	9.8	10.15	10.2	10.10	10.12	.63							
15			10.7	10.8	10.75	.33							
16			10.9	11.0	10.95	.45							
17			11.6	11.7	11.65	-.02							
18			11.9	12.0	11.95	.11							
19			12.6	12.5	12.55	-.13							
20		12.75	12.8	12.7	12.70	12.72	+.01						
23		13.55	13.5	13.6	13.45	13.50	-.16						
25		13.80	13.8	13.8	13.90	13.85	-.02						
26		14.00	14.0	14.0		14.00	-.33						
27				h.s.									
28													
29													

11:05

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1918phae.proj..694A

Sheet No. 436

Wednesday Feb. 26, 1919

Scale R.

MC Series 895

MC 14383 Pole.

9:20

	Sc.1	Mean	Sc. 2	Cp'd. p.156	Mean	Diff.	Diff. Sc 2 Sc 1	p.156	Mean	Diff	P.C. Sc 2	p.156	Mean	Diff
	1.5													
6	1.2			1.6	1.55	4.94	7.5	7.7	7.60	7.75	7.68	-1.19	9.7	9.5	9.60	-3.11
	2.7													
6	2.4			2.7	2.70	4.41	8.7	8.7	8.70	8.90	8.80	-1.69	10.7	10.7	10.70	-3.59
	4.9													
8	4.6			4.9	4.90	3.33	10.6	10.6	10.60	10.55	10.58	-2.35	11.8	11.8	11.80	-3.57
	6.0													
9	5.7			5.9	5.95	2.88	11.0	11.4	11.20	11.40	11.30	-2.47	12.8	12.7	12.75	-3.82
	6.1													
10	5.8			6.1	6.10	2.92	11.8	11.7	11.75	11.70	11.72	-2.70	13.0	12.9	12.95	-3.93
	6.6													
11	6.8			7.3	6.95	2.60	12.4	12.5	12.45	12.10	12.28	-2.73	13.8	13.6	13.70	-4.15
	7.5													
12	7.2			7.9	7.70	2.16	12.7	12.6	12.65	12.60	12.62	-2.76	13.9	13.9	13.90	-4.04
	8.1													
13	7.8			8.40	8.25	2.05	12.9	12.9	12.90	12.85	12.88	-2.68				
	9.0													
14	8.7	8.75	8.9	8.90	8.92	1.73	13.2	13.4	13.30	13.40	13.35	-2.70				
	9.3													
15	9.0	9.35	9.4	9.55	9.45	1.63	13.9	13.9	13.90	13.80	13.85	-2.77				
	9.9													
16	9.6	9.90	9.9	9.90	9.90	1.40										
17			10.2	10.6	10.40	1.23										
18			10.8	10.9	10.85	1.21										
19			11.6	11.6	11.60	.82										
20			11.9	11.8	11.85	.88										
23			12.5	12.4	1245	.89										
25			13.0	12.9	12.95	.92										
26		13.45	13.5	13.4	13.50	13.48	.85									
27		13.75	13.8	13.7	13.70	13.72	.97									
28		14.00	14.0	14.0	13.90	13.95	1.16									
29				A.S.												

9:50

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Scale R

MC series 895

MC 1438 Z Cassiop. 23 30 +55 alt. Cor. +.21

9:50

	Sc 1	Mean	Sc. 2	Curr	Mag.	Diffs. Sc. 2	Mean	Curr.	Mag.	Sc. 2	Curr	Mag.
	7.0											
a	6.7			2.51	9.51	11.7 11.7	11.70	-2.57	9.13	13.6	-4.03	9.57
	7.7											
b	7.4			2.24	9.94	12.5 12.6	12.55	-2.70	9.85			
	7.3											
c	7.0 6.8			2.40	9.70	11.9 11.8	11.85	-2.60	9.25	13.8	-4.06	9.74
	8.7											
d	8.4	8.65	8.6	1.87	10.52	13.4 13.4	13.40	-2.72	10.68			
	7.9											
e	7.4 6			2.16	10.06	12.7		-2.70	10.00			
	8.9											
f	8.6	8.85	8.8	1.80	10.65	13.7 13.7	13.70	-2.70	11.00			
	9.2											
g	8.9	9.20	9.2	1.68	10.88	13.7 13.8	13.75	-2.70	11.05			
	9.6											
h	9.3	9.60	9.6	1.52	11.12	13.8 13.8	13.80	-2.70	11.10			
k			9.6	1.50	11.20							
l			9.5	1.56	11.06							
m			10.4	1.27	11.67							
n			11.7	1.17	11.87							
n'			10.7	1.17	11.87							
o			double									
o'			9.6	1.52	11.12							
p			11.8	.88	12.68							
q			11.9	.86	12.76							
q'			12.7	.84	13.54							
r			11.7	.90	12.60							
s			12.8	.85	13.65							
t		13.45	13.5	13.4	.95	14.40						
u		13.90	13.9	13.9	1.04	14.94						
w		14.00	14.0	14.0	1.06	15.06						
x				N.S								
y												

10:20

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Wednesday Feb. 26, 1919

Scale R.

MC Series 895

MC 14388 Pole

10:20

	Sc 1	Mean.	Sc 2	Diffr.			P.C.
				g Sc 2 h		Mean.	Sc 2
	1.6			Pol	Sec		
5	1.3			7.7	7.8	7.75	9.5
	2.7						
6	2.4			8.8	9.0	8.90	10.7
	4.9						
8	4.6			10.5	10.6	10.55	11.8
	5.9						
9	5.6			11.4	11.4	11.40	12.7
	6.1						
10	5.8			11.7	11.7	11.70	12.9
	7.3						
11	7.0			12.0	12.2	12.10	13.6
	7.9						
12	7.6			12.6	12.6	12.60	13.9
	8.4						
13	8.1	8.40	8.4	12.8	12.9	12.85	
	9.0						
14	8.7	8.90	8.8	13.5	13.3	13.40	
	9.5						
15	9.2	9.55	9.6	13.8	13.8	13.80	
	9.9						
16	9.6	9.90	9.9				
17			10.6				
18			10.9				
19			11.6				
20			11.8				
23			12.4				
25			12.9				
26		13.50	13.4	13.6			
27		13.70	13.7	13.7			
28		13.90	13.9	13.9			
29			N.S.	N.S.			

10:45

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1918phae.proj..694A

Monday March 3, 1919

Sc. N. DM Reference Seq. .000 +55

AC 14621

10:10

	Sc. A.	Sc. B.	Sc C.	Mean.	Diff.
		5.0			
1		5.4	5.0	5.00	3.12
	4.2	4.1			
1a	4.4	4.5	4.2	4.17	3.32
		5.2			
1b		5.6	5.2	5.20	3.13
		5.4			
1c		5.8	5.6	5.50	3.13
		6.2			
2		6.6	6.2	6.20	2.64
		6.9			
3		7.3	6.7	6.80	2.48
		7.2			
4		7.6	7.2	7.20	2.68
		7.3			
4a		7.7	7.4	7.35	2.85
		8.5			
4b		8.9	8.7	8.60	2.95
		7.9			
5		8.3	7.8	7.85	2.69
		8.4			
6		8.8	8.7	8.55	2.65
7			9.5		2.14
8			9.6		2.50
9			9.8		2.39
10			9.9	10.0 9.95	2.37
10a			9.0	9.0 9.00	2.59
11		1	10.2	10.1 10.15	2.69
12			N.S.		

10:35

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1918phae.proj..694A

Monday Mar. 3, 1919

Ic. N

RY Cass.

AC 14621

10:35

	Ic. A	Ic. B.	Ic. C.	Mean	Dm. Ref. Seq. Curve.	Dm. Ref. Seq. Mag.	19K. Curve	19K. Mag.	Z Cass. Curve	Z Cass. Mag.
a		7.1 7.5 8.3	7.0	7.05	2.73	9.78	2.45	9.50	2.90	9.96
b		8.7 7.4	8.4	8.35	2.58	10.93	2.70	11.05	2.47	10.82
c		7.8 7.4	7.5	7.45	2.67	10.12	2.68	10.03	2.77	10.22
d		7.8 7.8	7.4	7.40	2.68	10.08	2.66	9.96	2.79	10.19
e		8.4 8.2	7.8	7.80	2.63	10.43	2.64	10.44	2.64	10.44
f		8.8	8.2	8.20	2.59	10.79	2.70	10.90	2.51	10.71
g			8.7		2.55	11.25	2.71	11.41	2.35	11.05
h			8.8		2.64	11.34	2.71	11.51	2.31	11.11
k			8.9		2.53	11.43	2.71	11.61	2.30	11.20
l		9.2	9.2	9.20	2.51	11.71	2.70	11.90	2.26	11.46
m		9.8	9.8	9.80	2.49	12.29	2.70	12.50	2.55	12.35
n		10.1	10.1	10.10	2.48	12.58	2.70	12.80	3.18	13.28
o										

10:55

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1918phae.proj. .694A

Monday Mar. 3, 1919

Sc. N U U Cass.

AC 14621

10:55

	Sc. B	Sc. C	Dm. Ref. Seq. Curve	Dm. Ref. Seq. Mag.	19K. Curve	19K. Mag	2 Cass. Curve	2 Cass. Mag
	7.2	Mean						
a	7.6	7.00 7.0	2.74	9.74	2.43	9.43	2.91	9.91
b	7.3 7.7	7.35 7.4	2.68	10.08	2.55	9.90	2.80	10.15
c	7.4 7.8	7.40 7.4	2.68	10.08	2.56	9.96	2.78	10.18
d	7.8 8.2	7.85 7.9	2.63	10.48	2.66	10.50	2.63	10.48
e	8.3 8.7	8.40 8.5	2.58	10.98	2.70	11.10	2.45	10.85
f	8.8 8.7	8.45 8.6	2.57	11.02	2.70	11.15	2.43	10.88
g		9.0	2.52	11.52	2.71	11.71	2.28	11.28
h		9.40 9.4	2.50	11.90	2.70	12.10	2.25	11.65
k		10.05 10.0	2.48	12.53	2.70	12.75	3.10	13.15

11:10

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Monday Mar. 3, 1919

Sc. N

Z Cass.

AC 14621

11:10

		Sc. B	Mean	Sc. C	Diff.	DM. Ref. Seq. Curve	DM. Ref. Seq. Mag	19K Curve	19K Mag.	Z Cass. Curve	Z Cass. Mag.
		6.5									
a		6.9	6.55	6.6	3.01	2.82	9.37	2.27	8.82	3.07	9.62
		7.2									
b		7.6	7.20	7.2	2.92	2.70	9.90	2.50	9.70	2.85	10.05
		7.4									
c		7.8	7.40	7.4	2.32	2.68	10.08	2.56	9.96	278	10.18
		8.4									
d		8.8	8.40	8.4	2.40	2.58	10.98	2.70	11.10	2.45	10.85
		9.6									
e		8.0	7.65	7.7	2.59	2.65	10.30	2.62	10.27	2.70	10.35
		8.0									
f		8.4	7.95	7.9	3.00	2.62	10.57	2.67	10.62	2.60	10.55
		8.5									
g		8.9	8.60	8.7	2.56	2.56	11.16	2.70	11.30	2.38	10.98
h				8.8 7.0	2.49	2.54	11.34	2.71	11.51	2.31	11.11
k				8.8	2.68	2.54	11.34	2.71	11.61	2.31	11.11
l				8.9	2.40	2.53	11.43	2.71	11.61	2.30	11.20
m				9.8	2.14	2.49	12.29	2.70	12.50	2.55	12.35
n				o.	,	.	.	.	.	.	.
n'				9.8	2.27	2.49	12.29	2.70	12.50	2.55	12.35
o				d.	.	.	.	.	.	.	.
o'				9.2	2.08	2.51	11.71	2.70	11.90	2.26	11.46
f		10.00	10.0	10.0	3.02	2.48	12.48	2.70	12.70	3.00	13.00
g		10.10	10.1	10.1	2.96	2.48	12.58	2.70	12.80	3.20	13.30
h		9.90	9.9	9.9	2.92	2.49	12.39	2.70	12.60	2.80	12.70
p				U.S.							
t											

11:35

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Monday Mar. 3, 1919.

Sc. N

19K

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23 21 +60

		Sc. B		Oc. C.	Diff.
11:35					
	1	7.2 6.8	6.70	6.6	2.25
	2	7.7 7.3	7.30	7.3	2.49
	3	7.8 7.4	7.35	7.3	2.74
	4	8.4 8.0	8.00	8.0	2.68
	5	8.7 8.3	8.35	8.4	2.73
	6	8.9 8.5	8.60	8.7	2.69
	7			8.9	2.76
	8		9.30 9.4	9.2	2.61
	9		9.60 9.6	9.6	2.62
	10		9.80 9.8	9.8	2.84
	11			n.s.	
11:50					

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Tuesday ~~Feb~~ March 4, 1919.

Sc. N. 19K

AC 16821

9:25

		Sc. B	Mean	Sc. C	Diff.
Difficult Hjrt.	1	6.4 6.8 ~~7.7~~	6.35	6.3	2.60
	2	7.5 ~~7.9~~ 7.5	7.55	7.6	2.24
	3	~~7.6~~ 7.7	7.45	7.4	2.64
	4	8.4 8.8	8.40	8.4	2.28
	5	8.6 9.0	8.65	8.7	2.43
	6			9.0	2.29
	7			9.2	2.46
	8		9.40	9.4	2.51
	9		9.80	9.8	2.42
	10		10.00	10.0	2.64
	11			W.S.	
	12			"	"

9:45

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1918phae.proj..694A

Tuesday March 4, 1919

Sc. N

Z Cass.

AC 16821

9:45

		Sc. B	Mean	Sc. C.	Diff.	DM. Ref Leg. Curve	DM. Ref Leg. Mag.	19K. Curve	19K. Mag.	ZCass. Curve	ZCass. Mag.
a	7.0	7.4	6.90	6.8	2.66	2.70	9.60	2.49	9.39	2.70	9.60
b	7.4	7.8	7.46	7.5	2.67	2.60	10.05	2.40	9.86	2.60	10.05
c	7.2	7.6	7.20	7.2	2.62	2.65	9.85	2.44	9.64	2.65	9.85
d	8.3	8.7	8.36	8.4	2.45	2.46	10.81	2.33	10.68	2.48	10.83
e	7.5	7.9	7.50	7.5	2.74	2.58	10.08	2.40	9.90	2.60	10.10
f	8.1	8.5	8.15	8.2	2.80	2.48	10.63	2.33	10.48	2.60	10.65
g	8.4	8.8	8.55	8.7	2.61	2.42	10.97	2.34	10.89	2.43	10.98
h				9.0	2.29	2.37	11.37	2.38	11.38	2.38	11.38
k				9.2	2.28	2.34	11.54	2.41	11.61	2.34	11.54
l				8.8	2.50	2.39	11.19	2.37	11.17	2.40	11.20
m				9.7	2.24	2.28	11.98	2.50	12.20	2.32	12.02
n		~~9.40~~	~~9.4~~	9.4	2.68	.	.	.	.	.	.
n'		9.75	9.7	9.8	2.32	2.28	12.03	2.50	12.25	2.35	12.10
o				.		.	.	.	.	.	.
o'		8.80	8.8	8.8	2.48	2.39	11.19	2.37	11.17	2.40	11.20
p				.		.	.	.	.	.	.
q				.		.	.	.	.	.	.
r		10.00	10.0	10.0	2.82	2.25	12.25	2.55	12.55	2.56	12.56
s											
t											

10:05

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Tuesday March 4, 1919

Sc. N

U U Caso.

AC 16821

						Dm. Ref. Seq.		19K		Z Caso.	
10:05		Sc. B	Mean	bC		Curvr	Mag.	Curvr	Mag.	Curvr	Mag
		7.1									
	a	7.5	7.05	7.0		2.67	9.72	2.47	9.52	2.68	9.72
		7.4									
	b	7.8	7.40	7.4		2.60	10.00	2.40	9.80	2.51	9.91
		7.2									
	c	7.6	7.20	7.2		2.65	9.85	2.44	9.64	2.65	9.85
		7.8									
	d	8.2	7.80	7.8		2.53	10.33	2.38	10.18	2.56	10.36
		8.2									
	e	8.6	8.20	8.2		2.48	10.68	2.33	10.53	2.50	10.70
		8.3									
	f	8.7	8.35	8.4		2.46	10.81	2.32	10.67	2.47	10.82
	g		8.80	8.8	8.8	2.39	11.19	2.39	11.19	2.40	11.20
	h		9.40	9.4		2.31	11.71	2.46	11.85	2.31	11.71
	p		10.05	10.0	10.1	2.25	12.30	2.56	12.61	2.62	12.67
10:15											

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Tuesday, March 4, 1919

Sc. N

R Y Cass.

AG 16821

10:15

	Sc. B	Mean	Sc. C	Dm. Ref. Seq. Curr	Mag.	19K. Curr	Mag	Curr 2 Cass.	Mag
a	7.1 7.5	7.00	6.9	2.69	9.69	2.48	9.48	2.69	9.69
b	8.1 8.5	8.15	8.2	2.48	10.63	2.34	10.49	2.50	10.65
c	7.2 7.6	7.20	7.2	2.64	9.84	2.44	9.64	2.65	9.85
d	7.4 7.8	7.50	7.6	2.59	10.09	2.40	9.90	2.60	10.10
e	7.8 8.2	7.80	7.8	2.53	10.33	2.38	10.18	2.56	10.36
f	8.3 8.7	8.35	8.4	2.46	10.81	2.32	10.67	2.47	10.82
g	8.5 8.9	8.55	8.6	2.42	10.97	2.34	10.89	2.43	10.98
h			9.3	2.33	11.63	2.43	11.73	2.31	11.61
k		9.60	9.6	2.29	11.89	2.48	12.08	2.30	11.90
l		9.70	9.7	2.28	11.98	2.50	12.20	2.33	12.03
m		9.80	9.8	2.28	12.08	2.51	12.31	2.38	12.18
n			n.s.						

10:30

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Tuesday March 4, 1919.

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AC 16821

		Sc. A	Sc. B	Sc C.	Mean	Diff.
10:30.			5.0			
	1		5.4	5D	5.00	3.12
		4.0	4.0			
	1a	4.2	4.4		4.00	3.49
			5.2			
	1b		5.6	5.0	5.10	3.23
			5.6			
	1c		6.0	5.6	5.60	3.03
			6.9			
	2		6.7	5.9	5.95	2.89
			6.4			
	3		6.8	6.6	6.50	2.78
			7.3			
	4		7.7	7.3	7.30	2.58
			7.4			
	4a		7.8	7.4	7.40	2.80
			8.6			
	4b		9.0	8.8	8.70	2.85
			7.4			
Mongstar meas pts	5		7.8	7.6	7.60	3.04
	6			8.9	"	2.30
	7		9.3	9.2	9.25	2.39
	8		9.8	9.8	9.80	2.30
	9		10.0	10.0	10.00	2.19
	10			n.s.		
	10a					
	11					
10:50	12					

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Wednesday March 5, 1919

Scale N 2 Ass.

AC 12528

9:20

	Sc. B	Mean	Sc. C	Diff.	DM. Ref. Seq. Curve	DM. Ref. Seq. mag.	19R. Curve	19R. mag.	Z Cass. Curve	Z Cass. mag.
a	8.0 8.4	8.00	8.0	1.66	1.60	9.60	1.59	9.59	1.51	9.51
b	8.4 8.8	8.48	8.5	1.67	1.61	10.06	1.64	10.09	1.50	9.95
c	8.2 8.6	8.26	8.3	1.47	1.60	9.85	1.62	9.87	1.51	9.76
d	~~8.8~~ (Wrong star meas. at first)		9.5	1.30	1.74	11.24	1.81	11.31	1.56	11.06
e	8.6 8.9	8.60	8.7	1.64	1.62	10.22	1.67	10.27	1.50	10.10
f			9.4	1.55	1.71	11.11	1.80	11.20	1.63	10.93
g			9.6	1.66	1.76	11.36	1.83	11.43	1.58	11.18
h			9.7	1.59	1.80	11.50	1.86	11.56	1.62	11.32
k			9.9	1.58	1.88	11.78	1.90	11.80	1.80	11.70
l			9.7	1.60	1.80	11.50	1.86	11.56	1.62	11.32
m			10.0	1.94	1.95	11.95	1.92	11.92	1.89	11.89
~~n~~	~~9.90~~	~~9.9~~	~~9.9~~	~~2.18~~	.	.	.	.	.	.
n'	10.00	10.0	10.0	2.07	1.96	11.95	1.92	11.92	1.89	11.89
o		.			.	.	.	.	.	.
o1	9.80	9.8	9.8	1.48	1.84	11.64	1.89	11.69	1.70	11.50
p			n:s							
q										
r										
s										
9:30 t										

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Wednesday March 5, 1919

Scale N

U U Cass.

AC 12528

9:30

		Sc. B	Mean	Sc. C	Dm. Ref. Seq. Curvr	Dm. Ref. Seq. Mag.	191K. Curvr	191K. Mag	Z Caso. Curvr	Z Caso. Mag.
		7.8								
a		8.2	7.80	7.8	1.60	9.40	1.57	9.37	1.52	9.32
		8.3								
b		8.7	8.40	8.5	1.60	10.00	1.63	10.03	1.51	9.91
		8.2								
c		8.6	8.25	8.3	1.60	9.85	1.61	9.86	1.51	9.76
		8.6								
d		9.0	8.65	8.7	1.62	10.27	1.68	10.33	1.61	10.16
e				8.9	1.64	10.54	1.70	10.60	1.50	10.40
f				9.4	1.71	11.11	1.80	11.20	1.53	10.93
g			9.70	9.7	1.79	11.49	1.86	11.56	1.62	11.32
h			9.90	9.9	1.89	11.79	1.90	11.80	1.78	11.68
k			10.10	10.1	2.08	12.18	1.96	12.06	2.00	12.10

9:40

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Wednesday March 5, 1919.

Scale N

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AC 12528

		Sc. B	Mean	Sc. C	Diff.
9:40		6.8			
1	a	6.7	6.30	6.3	1.82
1a	b	5.1 5.5	5.05	5.0	2.44
1b	c	6.5 6.9	6.45	6.4	1.88
1c	d	6.8 7.2	6.75	6.7	1.88
2	e	7.4 7.8	7.35	7.3	1.49
3	f	7.5 7.9	7.45	7.4	1.83
4	g	8.3 8.7	8.30	8.3	1.68
4a	h	8.4 8.8	8.50	8.6	1.70
4b	k			9.8	1.75
5	l			8.9	1.64
6	m			9.5	1.70
7	n	9.80	9.8	9.8	1.84
8		10.00	10.0	10.0	2.10
9		10.10	10.1	10.1	2.09
10				N.S.	
10a					
10:00	11				
	12.				

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Wednesday March 5, 1919

Scale N

R Y Cass.

AC 12528

	Dc	B	Mean	Dc. C	Dm. Ref. Leg. Curvr	Dm. Ref. Leg. mag.	19 K. Curvr	19 K. mag.	Z Cass. Curvr	Z Cass. mag.
	8.0									
a	8.4		7.90	7.8	1.60	9.50	1.58	9.48	1.52	9.42
	8.5									
b	8.9		8.60	8.7	1.62	10.22	1.67	10.27	1.51	10.11
	8.2									
c	8.6		8.20	8.2	1.60	9.80	1.60	9.80	1.51	9.71
	8.3									
d	8.7		8.35	8.4	1.60	9.95	1.63	9.98	1.51	9.86
	8.4									
e	8.8		8.50	8.6	1.61	10.11	1.65	10.15	1.50	10.00
f				8.8	1.63	10.43	1.79	10.59	1.50	10.30
g				9.1	1.67	10.77	1.74	10.84	1.51	10.61
h				9.6	1.76	11.36	1.82	11.42	1.68	11.18
k			9.80	9.8	1.83	11.63	1.88	11.68	1.70	11.50
l			9.90	9.9	1.88	11.78	1.90	11.80	1.78	11.68
m			10.10	10.1	2.08	12.18	1.96	12.06	2.00	12.10
n				n.s.						

10:00

10:15

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Wednesday March 5, 1919

Scale N

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AB 12528

10:15

	Sc. B	Mean Sc. C	Diff
	7.4		
1	7.8	7.40	7.4 1.56
	8.1		
2	8.5	8.15	8.2 1.64
	8.4		
3	8.8	8.45	8.5 1.64
4			8.9 1.78
5			9.3 1.78
6			9.7 1.59
7	9.58	9.8	9.8 1.86
8	9.95	9.9	10.0 1.96
9	10.10	10.1	10.1 2.12
10			n.s.

10:25 11

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1918phae.proj..694A

Thursday March 6, 1919

Sc. N

DM. Ref. Leg. 0 00 +55

AC 6744

9:20

		Sc. B	Sc. C	Sc. A	Mean	Diff.
		5.8				
	1	6.2	5.8		5.80	2.32
		4.2		4.2		
	1a	4.6	4.4	4.6	4.27	3.22
		6.0				
	1b	6.4	5.9		5.95	2.38
		6.2				
	1c	6.6	6.0		6.10	2.53
		7.3				
	2	7.7	7.2		7.25	1.59
		7.4				
	3	7.8	7.5		7.45	1.80
		8.4				
	4	8.8	8.4		8.40	1.48
		8.5				
	4a	8.9	8.7		8.60	1.60
	4b		9.8			1.75
	5		8.9			1.64
	6		9.7			1.50
	7		9.9	10.0	9.95	1.69
	8		10.0	10.0	10.00	2.10
	9		10.1	10.1	10.10	2.09
	10		n.s.			
9:35	10a					

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1918phae.proj..694A

Thursday March 6, 1919

Sc. R

AC 6744

R Y Cass.

9:35

	to B	Mean	Dec	Dm. Ref. Seq. Curve	Dm. Ref. Seq. mag.	19 K. Curve	19 K. mag.	Z Cass. Curve	Z Cass. mag.
a	87.6 8.0	7.65	7.7	1.67	9.32	1.62	9.27	1.72*	9.37
b	8.6 9.0	8.65	8.7	1.56	10.21	1.72	10.37	1.67	10.32
c	8.1 8.5	8.05	8.0	1.59	9.64	1.66	9.71	1.69	9.74
d	8.3 8.7	8.40	8.5	1.55	9.95	1.70	10.10	1.68	10.08
e	8.5 8.9	8.50	8.5	1.55	10.05	1.70	10.20	1.68	10.18
f			8.7	1.66	10.26	1.72	10.42	1.67	10.37
g			9.4 8.6	1.59	10.99	1.80	11.20	1.66	11.06
h			9.8	1.72	11.52	1.97	11.77	1.77	11.57
k		9.80	9.8 9.8	1.72	11.52	1.97	11.77	1.77	11.57
l		10.00	10.0 10.0	1.95	11.95	2.15	12.15	1.88	11.88
m		10.20	10.2 10.2	.	.	2.40	12.60	1.98	12.18
n			n.s.	.	.				

9:50

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1918phae.proj..694A

Thursday March 6, 1915

Se. N. Z Cass.

AC 6744

9:50

	Se. B	Mean	Se C	Diff.	DM. Ref. Seq. Curve	DM. Ref. Seq. Mag.	19K. Curve	19K. Mag.	Z Cass. Curve	Z Cass. Mag.
a	7.9 8.3	7.95	8.0	1.61	1.60	9.66	1.65	9.60	1.70	9.65
b	8.4 8.8	8.55	8.7	1.57	1.56	10.11	1.70	10.25	1.68	10.23
c	8.0 8.4	8.00	8.0	1.72	1.59	9.59	1.66	9.66	1.70	9.70
d			9.2	1.60	1.57	10.77	1.78	10.98	1.64	10.84
e	8.3 8.7	8.35	8.4	1.89	1.56	9.91	1.69	10.04	1.68	10.03
f			9.2	1.76	1.57	10.77	1.78	10.98	1.64	1084
g			9.5	1.66	1.60	11.10	1.83	11.33	1.67	11.17
h			9.7	1.59	1.66	11.36	1.90	11.60	1.73	11.43
k			9.8	1.68	1.72	11.52	1.97	11.77	1.77	11.57
l			9.7	1.60	1.66	11.36	1.90	11.60	1.73	11.43
m		9.90	9.9	2.04	1.82	11.72	2.05	11.95	1.80	11.70
~~n~~		~~10.00~~	~~10.0~~	~~2.08~~	.	.	.	.	.	.
n'		10.10	10.1	1.97	2.10	12.20	2.30	12.40	1.95	12.05
o			.		.	.	.	.	.	.
o'			9.8		1.72	11.52	1.97	11.77	1.77	11.57
p			n.s.							
q			.							
r			.							
s										
t										

10:00

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1918phae.proj..694A

Thursday March 6, 1919.

Le. h. 2 2 Cass.

AC 6744

					Dm. Ref. Seq.		19K		Z Cass.	
10:00		Le	B	Mean	DC	Curve	mag.	Curve	mag.	Curve	mag.
	a	7.4 7.8		7.35	7.3	1.74	9.09	1.59	8.94	.	.
	b	8.1 8.5		8.05	8.0	1.69	9.64	1.67	9.72	1.69	9.74
	c	8.0 8.4		7.95	7.9	1.60	9.55	1.66	9.61	1.70	9.65
	d	8.6 8.9		8.60	8.7	1.56	10.16	1.71	10.31	1.57	10.27
	e				8.8	1.56	10.36	1.72	10.52	1.56	10.46
	f		9.00	9.0	9.0	1.67	10.67	1.76	10.75	1.65	10.65
	g		9.80	9.8	9.8	1.72	11.52	1.96	11.76	1.76	11.56
	h		9.96	10.0	9.9	1.90	11.85	2.10	12.05	1.85	11.80
10:10	k				n.s.						

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1918phae.proj..694A

Thursday March 6, 1919

Sc. N. 1912

AC 6744

10:10

	Sc. B	Mean	Sc C	Diff.
1	7.3 7.7	7.40	7.5	1.65
2	8.0 8.4	8.00	8.0	1.79
3	8.4 8.8	8.40	8.4	1.69
4	8.6 9.0	8.60	8.6	2.08
5			9.3	1.78
6			9.7	1.59
7			9.8	1.86
8	9.90	9.9	9.9	2.01
9	10.00	10.0	10.0	2.22
10	10.20	10.2	10.2	2.44
11.			n.s.	

10:20

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1918phae.proj..694A

Tuesday March 11, 1919
Monday March 17 1919
2 Cass.

Ref. Plate MC4003.

					Mean	Ledger ch. h.r.dt
	9:15	AC 17839	11.7	11.8	11.75 $^{0}{}_{1}$ ✓	o' changed to h' in printer's copy
	12:05	AC 12578	<12.1	<12.8	<12.8 ✓	g' " " r' " " "
C.S.	Mag.	AC 7712	<11.5	<11.5	<11.5 ✓	
a	9.6	AC 7227	<11.5	<11.5	<11.5 ✓	
b	10.1	AC 7145	<11.5	<11.5	<11.5 ✓	
c	9.8	AC 6681	10.9	10.9	10.90 $^{0}{}_{0}$ ✓	
d	10.8	AC 12622	<11.5	<11.9	<11.9 ✓	
e	10.2	AC 3127	9.3	9.3	9.30 $^{0}{}_{0}$ ✓	Brighter than a See p. 183 note.
f	10.9	AC 5745	<11.9	<11.9	<11.9 ✓	
g	11.2	AC 13312	<11.5	<11.5	<11.5 ✓	
h	11.8	AC 6645	11.6	11.6	11.60 $^{0}{}_{0}$ ✓	
k	11.5	AC 4335	<12.1	<12.1	<12.1 ✓	
l	11.3	AC 3866	<11.9	<11.9	<11.9 ✓	
m	11.9	AC 11255	12.0	11.9	11.95 $^{1}{}_{0}$ ✓	
n'	12.1	AC 8620	<11.5	<11.5	<11.5 ✓	
o' h' = 11.4						
p	13.6 9:35	AC 1971	12.8	13.0	12.90 $^{1}{}_{1}$ ✓	
q	13.0 10:00	AC 656	<12.1	<12.8	<12.8 ✓	
q' r'	13.8	AC 11921	<11.3	<11.2	<11.3 ✓	
r	12.8	AC 40920	<12.1	<12.1	<12.1 ✓	
s	13.9	AC 1883	12.6	12.3	12.45 $^{2}{}_{1}$ ✓	
t	14.7	AC 3223	10.6	10.4	10.50 $^{1}{}_{1}$ ✓	
u	14.9	AC 11724	<11.5	<11.5	<11.5 ✓	
w	15.1	AC 4286	<11.3	<11.3	<11.3 ✓	
x	15.6	AC 11349	<10.1	<10.9	<10.9 ✓	
A	8.9	AC 5158	<11.3	<11.2	<11.2 ✓	
B	9.2	AC 12611	<11.3	<11.3	<11.3 ✓	
C	9.8					
	10:10	AC 1996	<11.9	<11.5	<11.5 ✓	
	12:20					

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1918phae.proj..694A

Tuesday March 11, 1919
Saturday March 15, 1919
2 Cass.

				Mean Ledger a. R.A.
10:10	AC 5239	<11.9	<12.1	<12.1 ✓
10:10	AC 11302	<12.1	<12.1	<12.1 ✓
	AC 2077	<12.1	<12.1	<12.1 ✓
	AC 8760	<11.5	<11.5	<11.5 ✓
	AC 14191	<11.5	<11.5	<11.5 ✓
	AC 18249	<11.2	<11.2	<11.2 ✓
	AC 5357	<11.5	<11.9	<11.9 ✓
	AC 11111	11.9	11.8	11.85 ' 0 ✓
	AC 6933	11.3	11.5	11.40 ! ' ✓
	AC 2964	<12.1	<12.1	<12.1 ✓
	AC 8637	<11.5	<11.5	<11.5 ✓
	AC 19273	<11.3	<11.3	<11.3 ✓
	AC 12391	<12.1	<12.1	<12.1 ✓
	AC 7096	<11.2	<10.9	<10.9 ✓
	AC 3204	10.2	10.1	10.15 ' 0 ✓
	AC 18042	<12.1	<12.1	<12.1 ✓
	AC 11077	<10.9	<10.2	<10.2 ✓
	AC 2063	<12.8	<12.8	<12.8 ✓
	AC 7307	<11.9	<11.9	<11.9 ✓
	AC 17812	11.6	11.5	11.55 ' 0 ✓
	AC 4128	<11.5	<12.1	<12.1 ✓
	AC 5969	<11.5	<11.5	<11.5 ✓
	AC 12326	10.8	10.8	10.80 ✓
	AC 16142	11.4	11.4	11.40 ✓
	AC 3289	10.7	11.0	11.85 ! ' ✓
10:25	AC 3078	9.3	9.3	9.30 ' 0 ✓
10:30				

9.

Def. mean dec.

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Tuesday March 11, 1919.
Saturday March 15, 1919.
2 Cass.

Mean Ledger cls. R.A.H.

10:30	AC 9031	<11.9	<12.1	<12.1	✓
2:05	AC 2185	<11.5	<11.5	<11.5	✓
	AC 12379	10.2	10.9	<10.9	✓
	AC 8682	<11.9	<11.9	<11.9	✓
	AC 15449	<11.9	<12.1	<12.1	✓
	AC 3060	10.0	10.1	10.05	0 1 ✓
	AC 1769	<11.9	<11.9	<11.9	✓
	AC 11962	<11.5	<11.5	<11.5	✓
	AC 919	<11.5	12.0	12.0	✓
	AC 2751	<11.9	12.1	<12.1	✓
	AC 14745	11.7	11.6	11.65	1 0 ✓
	AC 13233	<10.1	<10.9	<10.9	✓
	AC 2141	<11.9	<11.9	<11.9	✓
	AC 13457	<11.5	<11.5	<11.5	✓
	AC 2684	<11.5	<11.5	<11.5	✓
	AC 1656	<11.3	<11.5	<11.5	✓
	AC 12809	<11.5	<11.5	<11.5	✓
	AC 2188	<11.3	<11.5	<11.5	✓
	AC 3168	9.5	10.0	9.75	2 3 ✓
	AC 15954	<12.1	<12.1	<12.1	✓
	AC 19774	12.3	12.3	12.30	0 0 ✓
	AC 13322	10.1	<10.2	<10.2	✓
	AC 4355	<12.8	<12.8	<12.8	✓
	AC 11734	<11.5	<11.5	<11.5	✓
10:50	AC 16821	<12.1	<12.8	<12.8	✓
2:20					

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Tuesday March 11, 1919
Saturday March 15, 1919
2 Cass

Mean Ledger A.L.S.T.

2:05	AC 13698	<11.5	<12.1	<12.1 ✓
2:40	AC 17285	<12.1	<12.1	<12.1 ✓
	AC 14438	11.7	11.4	11.65 ±1 ✓
	AC 1765	<11.3	<11.5	<11.5 ✓
	AC 8608	<12.1	<12.1	<12.1 ✓
	AC 10859	<11.3	<11.3	<11.3 ✓
	AC 18851	<11.5	<11.5	<11.5 ✓
	AC 7696	<11.5	<11.5	<11.5 ✓
	AC 15822	<12.8	<12.8	<12.8 ✓
	AC 11137	11.8	11.9	11.85 ° ' ✓
	AC 19232	<11.2	<11.3	<11.3 ✓
	AC 6815	11.0	11.2	11.10 ± ' ✓
	AC 15506	<12.1	<12.1	<12.1 ✓
	AC 5520	<10.2	<10.9	<10.9 ✓
	AC 12546	<12.1	<12.1	<12.1 ✓
	AC 7171	<12.1	<12.1	<12.1 ✓
	AC 10950	11.2	11.2	11.20 ° ✓
	AC 19053	<11.5	<11.5	<11.5 ✓
	AC 15803	<12.1	<12.1	<12.1 ✓
	AC 4572	<11.5	<11.5	<11.5 ✓
	AC 6551	<11.9	<12.1	<12.1 ✓
	AC 7262	<10.9	<10.9	<10.9 ✓
	AC 9060	<12.8	<12.8	<12.8 ✓
	AC 15812	<11.9	<11.9	<11.9 ✓
	AC 5789	<11.9	<11.9	<11.9 ✓
2:20				
2:55				

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Tuesday March 11, 1919
Saturday March 15, 1919
2 Cass.

				Mean Hedgcock. Pickett.
2:20	AC 4172	<11.5	<11.5	<11.5 ✓
2:20	AC 13364	<11.5	<11.5	<11.5 ✓
	AC 20225	<12.1	<12.1	<12.1 ✓
	AC 5015	11.9	11.9	11.90 ✓
	AC 10874	11.5	11.5	11.50 ✓
	AC 4618	<12.8	<12.1	<12.1 ✓
	AC 19623	11.4	11.5	11.45 ✓
	AC 2153	<12.8	<12.8	<12.8 ✓
	AC 14270	<11.9	<11.9	<11.9 ✓
	AC 17791	11.5	11.4	11.45 ✓
	AC 3916	<11.5	<12.8	<12.8 ✓ a = c
	AC 13326	<11.9	<11.9	<11.9 ✓
	AC 7646	<10.2	<10.2	<10.2 ✓
	AC 5127	<10.2	<10.2	<10.2 ✓
	AC 14519	11.2	11.1	11.15 ✓
	AC 20597	<11.2	<11.3	<11.3 ✓
	AC 6898	11.3	11.5	11.40 ✓
	AC 15607	<12.1	<12.1	<12.1 ✓
	AC 5280	<12.1	<12.1	<12.1 ✓
	AC 10905	<11.3	<11.3	<11.3 ✓
	AC 4711	<11.5	<11.5	<11.5 ✓
	AC 14567	10.9	10.7	10.80 ✓
	AC 18548	<11.9	<11.9	<11.9 ✓
	AC 6744	10.6	10.7	10.65 ✓
	AC 14621	11.0	11.0	11.00 ✓
2:40				
2:40				

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Wednesday March 12, 1919
Monday March 17, 1919
J. Cass.

		Mean	Ledgered L.L.H.
9:10	AC 12558	<12.8 <12.8	<12.8 ✓
11:50	AC 6046	<10.2 <10.9	<10.9 ✓
	AC 14483	11.4 11.3	11.35 ✓
	AC 5896	<11.5 <11.5	<11.5 ✓
	AC 13549	<11.9 <11.9	<11.9 ✓
	AC 5476	<11.5 <11.5	<11.5 ✓
	AC 15718	<12.1 <12.1	<12.1 ✓
	AC 6479	<10.1 <11.3	<11.3 ✓
	AC 12703	<11.9 <12.8	<12.8 ✓
	AC 16850	<12.1 <12.1	<12.1 ✓
	AC 13413	<11.5 <12.1	<12.1 ✓
	AC 5640	<12.1 <12.1	<12.1 ✓
	AC 14284	<11.5 <11.5	<11.5 ✓
	AC 19573	11.6 11.3	11.45 ✓
	AC 9202	<11.9 <12.8	<12.8 ✓
	AC 13642	<11.9 <12.1	<12.1 ✓
	AC 5980	<12.1 <12.1	<12.1 ✓
	AC 12663	<12.1 <12.8	<12.8 ✓
	AC 5503	<11.3 <11.9	<11.9 ✓
	AC 5785	<11.5 <11.9	<11.9 ✓
	AC 2650	<12.1 <12.1	<12.1 ✓
	AC 5386	<11.5 <12.1	<12.1 ✓
	AC 12543	<11.5 <12.8	<12.8 ✓
	AC 6501	<11.2 <11.2	<11.2 ✓
9:30	AC 8814	<12.1 <12.8	<12.8 ✓
12:05			

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1918phae.proj..694A

Wednesday March 12, 1919
Monday March 17, 1919

3 Cases.

				Mean. Ledgewood R.R.H.
9:30	AC 12179	<10.9	<10.9	<10.9 ✓
11:15	AC 2019.	<11.5	<11.5	<11.5 ✓
	AC 10013	<10.9	<10.9	<10.9 ✓
	AC 9065	<12.8	<13.0	<13.0 ✓
	AC 10948	11.4	11.4	11.40 ° ° ✓
	AC 9939	<11.2	<11.5	<11.5 ✓
	AC 11291	<11.5	<11.5	<11.5 ✓
	AC 13526	<13.0	<13.0	<13.0 ✓
	AC 10852	<11.3	<11.3	<11.3 ✓
	AC 9168	<11.5	<11.9	<11.9 ✓
	AC 862	<11.2	<11.2	<11.2 ✓
	AC 14549	10.7	10.8	10.75 ° ' ✓
	AC 11033	11.3	11.3	11.30 ° ° ✓
	AC 2777	<11.5	<11.5	<11.5 ✓
	AC 12007	<10.2	<10.2	<10.2 ✓
	AC 4534	<12.1	<12.1	<12.1 ✓
	AC 7252	<11.3	<11.3	<11.3 ✓
	AC 11190	11.9	11.9	11.90 ° ° ✓
	AC 14702	11.3	11.3	11.30 ° ° ✓
	AC 12674	<12.8	<12.8	<12.8 ✓
	AC 7005	<11.5	<11.9	<11.9 ✓
	AC 11100	11.5	11.5	11.50 ° ° ✓
	AC 6866	11.4	11.3	11.35 ' ° ✓
	AC 15529	<12.1	<12.1	<12.1 ✓
9:50	AC 6635	11.6	11.7	11.65 ° ' ✓

11:30 Comparison Star "a" suspected of varying by D. D. W. - Plate I 33701 Spectrum Md 3 - therefore may change a little and should not be used as a comparison -

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1918phae.proj..694A

Thursday March 13, 1919
Saturday March 15, 1919

2 Cass.

				Mean	Ledger & h.s.t.	
2:00	♀ 11839	12.6	12.7	12.65	0 1 ✓	'94,
9:20	♀ 21189	<13.8	<13.8	<13.8	✓	02,1
	♀ 23965	<13.9	<13.9	<13.9	✓	'94,8
	♀ 9177	12.8	12.8	12.80	0 0 ✓	'02,
	♀ 21524	11.7	11.6	11.65	1 0 ✓	'94,1
	♀ 18308	11.3	11.3	11.30	0 0 ✓	'02,1
	♀ 6894	<13.0	<13.0	<13.0	✓ a <c.	'91,1
	♀ 24180	<13.0	<13.0	<13.0	✓	'02,12
	♀ 12071	12.8	13.0	12.90	1 1 ✓	01, 8
	♀ 9389	13.0	<13.0	<13.0	✓	'00, 8
	♀ 11941	<11.5	<12.1	<12.1	✓	'99, 9
	♀ 9733	<13.0	<13.0	<13.0	✓	'98, 12
	♀ 11467	11.0	10.8	10.90	1 1 ✓ a > c	'93, 8
	♀ 7451	<12.8	<12.8	<12.8	✓	'98,
	♀ 9737	<13.0	<13.0	<13.0	✓	'93,
	♀ 15771	<13.0	<13.0	<13.0	✓	'97,
	♀ 18746	12.7	12.8	12.75	0 1 ✓	'97,
	♀ 9379	13.2	13.0	13.10	1 1 ✓	
	♀ 11570	11.4	11.3	11.35	1 0 ✓	
2:35	♀ 9772	<12.8	<12.8	<12.8	✓	
9:40						

Tuesday March 18, 1919

'01,10,21	10:50	♀ 27834	12.8	~~11.0~~ 12.9	12.85	0 1 ✓
'97,8,17	1:55	♀ 18568	12.1	12.1	12.10	0 0 ✓
'97,9,2		♀ 18632	12.3	12.3	12.30	0 0 ✓
'97,8,5		♀ 18438	11.5	11.5	11.50	0 0 ✓
'03,11,20		♀ 31169	15.4	15.3	15.35	1 0 ✓
'03,10,21		♀ 31032	<14.7	<14.7	<14.7	✓

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1918phae.proj.:694A

Tuesday March 18, 1919.

				Cadgwith R.F.H.			Cadgwith R.F.H.
'94, 9, 20	D 11466	10.9	10.7	10.80 1/2	2:35 MC 4203	11.0 11.0	11.00 °
02, 11, 20	D 29553	11.7	11.7	11.70 °	MC 13875	11.1 11.2	11.15 01
'94, 8, 9 (9, 11)	D 11439	10.8	10.8	10.80 °	MC 1524 03 (+30)	15.6 15.6	15.60 ° °
'02, 11, 7	D 29516	13.0	13.0	13.00 °	MC 14387	10.6 10.6	10.60 ° °
'94, 10, 18	D 11719	11.6	11.6	11.60 °	2:45 MC 13196	<13.8 <13.8	<13.8
'02, 12, 9	D 29658	9.6	9.6	9.60 °			
'91, 11.19	D 4795	12.3	12.3	12.30 00			
'02, 12, 23	D 29698	9.3	9.2	9.25 ' °			
01, 8, 28	D 27375	11.6	11.6	11.60 ° °			
'00, 8, 9	D 25233	12.8	12.8	12.80 °			
'99, 9, 15	D 23520	<13.8	<13.8	<13.8			
'98, 12, 15	D 21958	11.7	11.7	11.70			
'93, 8, 31	D 9353	13.4	13.3	13.35 10			
'98, 10, 17	D 21443	12.5	12.2	12.35 2 1			
'93, 7, 21	D 8888	12.3	12.4	12.35 01			
'97, 9, 10	D 18775	12.4	12.7	12.55 1 2			
'97, 9, 11 11:45	D 18763	12.6	12.6	12.60 °			
60 · 2:15	Also Observed 3 Plates upon which 2 Cass. was not seen						
11:55	A 6488	<13.8					
	A 1582	<13.0					
	A 6487	<13.8					
	A 1578	<13.8					
12:00							

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1918phae.proj..694A

Thursday March 13, 1919

Scale R Pole and 2 Cass. Alt. Corr. +.27

	MC 4198					MC 4204		
9:30	P.C. Pole			Mean		P.C. Pole		Mean.
	Sc. 1 (10.1)	Mean.	Sc 2	2 Pole.	Diff.	Sc 2	Sc 2	
8	9.8	10.26	10.4	10.42	-2.19		10.6	
9			11.0	11.30	-2.47		11.6	
10		11.60	11.6	11.6	11.68	-2.66	11.7	11.8	11.75
11		11.75	11.8	11.7	12.02	-2.47	12.3	12.3	12.30
12		12.60	12.6	12.6	12.68	-2.82	12.7	12.8	12.75
13		12.90	12.9	12.9	12.92	-2.62	13.0	12.9	12.95
14		13.20	13.2	13.2	13.30	-2.65	13.4	13.4	1340

MC 4200	P.C. (Sc. 2)	2 Cass	Sc 2	Curve	Mag.
A	11.0	11.05	~~Sc. 1~~ 11.1	-2.62 (48)	8.~~43~~ (57)
B	11.6	11.55	11.5	-2.50	9.05
C	11.7	11.70	11.7	-2.~~46~~ (54)	9.~~24~~ (16)
a	12.0	12.00	12.0	-2.~~40~~ (6)	9.~~60~~ (4)
c	12.4	12.30	12.2	-2.~~36~~ (64)	9.~~94~~ (66)
b	12.7	12.70	12.7	-2.~~31~~ (69)	10.~~39~~ (01)
e	12.8	12.80	12.8	-2.~~30~~ (7)	10.~~50~~ (1)

9:55

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1918phae.proj.694A

Thursday March 13, 1919

Scale B Pole and 2 Cass Alt. Corr. +.21

MC 13189

	P.C. Pole Dec. 2	Mean	Dec. 2	Mean 2 Poles	Diff.
8	12.7	12.70	12.7	12.75	-4.62
9	13.6	13.55	13.5	13.62	-4.87
10	13.8	13.76	13.7	13.80	-4.78
11			MS	14.00	-4.45
12					
13					
14					

MC 13194

P.C. Pole Dec 2	Dec. 2	Mean
12.8	12.8	12.80
13.7	13.7	13.70
13.8	13.9	13.85
14.0	14.0	14.00

MC 13190 P.C. 2 Cass

	Dec 2	Dec	Curve	Mag.
A	13.4	13.46	18.5	-4.66	8.80
B	13.7	13.70	13.7	-4.69	9.01
C	13.9	13.95	14.0	-4.72	9.23
a			MS		
b					
c					
10:15 e					

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Thursday March 13, 1919

Scale R. Pole and 2 Cass. Alt. Cor. +.21

MC 13870 P.C. Pole. Mean

	Sc. 2	Mean	Sc 2	2 Poles.	Diff.
10:20					
8	12.9	12.90	12.9	12.90	-4.67
9	13.7	13.70	13.7	13.70	-4.87
10	13.9	13.90	13.9	13.88	-4.86
11	14.1	14.05	14.0	14.08	-4.53
12	N.S.				
13					
14					

MC 13876 P.C. Pole

Sc 2	Sc 2	Mean
12.9	12.9	12.90
13.7	13.7	13.70
13.8	13.9	13.85
14.1	14.1	14.10
N.S.		

MC. 13875 P.C. 2 Cass

	Sc. 2	Mean.	Sc 2	Curve	Mag.
A	13.3	13.35	13.4	-4.78	8.57
B	13.8	13.80	13.8	-4.80	9.00
C	14.0	14.00	14.0	-4.78	9.22
a	N.S.				
b					
c					
d					

10:30

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Thursday March 13, 1919

Scale B Pole and Z Cass Alt-Corr. +.21

MC 14383

	P.C. Pole			Mean	MC 14388 P.C. Pole		
10:30	Dec	Mean	Dec.	2 Rds. Diff	Dec.	Dec.	Mean
8	11.8	11.80	11.8	11.78 -3.55	11.8	11.7	11.75
9	12.8	12.80	12.8	12.75 -3.92	12.7	12.7	12.70
10	13.0	13.00	13.0	12.92 -3.90	12.8	12.9	12.85
11	13.8	13.70	13.6	13.55 -4.00	13.4	13.4	13.40
12	13.9	13.90	13.9	13.88 -4.02	13.8	13.9	13.85
13	h.s.				h.s.		
14							

MC 14387 P.C. Z Cass

	Dec.	Dec	Curve	Mag.
A	12.6	12.60	12.6	-3.82 8.78
B	12.8	12.80	12.8	-3.88 8.92
C	13.0	12.95	12.9	-3.91 9.04
a	13.5	13.55	13.6	-4.00 9.55
b				
c	13.8	13.80	13.8	-4.03 9.77
d				

10:45

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Wednesday March 12, 1919

19 Cass.

Identified from A. N. 193 #39 (Chart).
Examined following D Plates but var. N.S.

D 32436	
D 30016	
D 3261	
D 16879	
D 9806	
D 29858	
D 13572	
D 7769	
~~D 29557~~	< 12 (11.5 according to D'Estrade) May be j:
D 28406	
R 1568	N.S.
MC 500	N.S.
MC 13354	12.6 Only plate found on which 19 Cass. is distinctly visible.

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1918phae.proj..694A

Thursday March 20, 1919

2 Cass

2:45	AC 19689	12.0
	AC 19451	11.0
	AC 17817	11.4
	AC 19440	10.9
	AC 17824	11.6
	AC 19374	10.8
2:55	AC 19365	11.2

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1918phae.proj..694A

Friday March 21, 1919
Tuesday March 25, 1919.

Ref. Plate D 27834
A 6488

R Cassiopeiae.

					Mean	Ludgate L.L.H.	adopt
							Bk. 6:194
	2:10	AC 14621	11.0	11.0	11.00 ✓		
	2:15	AC 13698	11.6	11.5	11.55 ' 0 ✓		
C. S.	Mag.	AC 17785	10.2	10.2	10.20 ✓		
a	9.5	AC 14438	10.8	10.6	10.70 ' 1 ✓		10.80
b	10.5	AC 1765	<11.0	11.5	11.5 ✓		
c	9.8	AC 8608	11.2	11.0	11.10 ' 1 ✓		
d	10.0	AC 10859	11.0	11.0	11.00 ✓		
e	10.2	AC 18881	10.0	10.0	10.00 ✓		10.15
f	10.6	AC 7696	<11.7	<11.7	<11.7 ✓	film streaked	
g	11.0	AC 15822	11.5	11.5	11.50 ✓		
h	11.5	AC 11137	11.6	11.7	11.65 ' 0 ✓		
k	11.7	AC 19232	10.2	10.2	10.20 ✓		
l	11.8 9	AC 6815	11.6	11.6	11.60 ✓		
m	12.3	AC 15506	11.9	12.0	11.95 ' 0 ✓		
n	12.9	AC 5530	<10.6	<10.6	<10.6 ✓		
		AC 12546	10.6	10.4	10.50 ' 1 ✓		10.55
		AC 7171	11.0	11.1	11.15 ' 0 ✓		
		AC 10950	11.5	11.5	11.50 ✓		
		AC 19053	11.3	11.2	11.25 ' 0 ✓		
		AC 15803	11.4	11.3	11.35 ' 0 ✓		11.60
		AC 4572	11.0	11.0	11.00 ✓		
		AC 6551	11.3	11.0	11.15 ' 2 1 ✓		
		AC 7262	11.1	11.2	11.15 ' 0 ' ✓		
		AC 9060	11.3	11.3	11.30 ✓		
		AC 15812	11.7	11.7	11.70 ✓		
	2:40						
	2:30						

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1918phae.proj..694A

Friday March 21, 1919
Tuesday March 25, 1919
R Y Cass.

I 27834
A 6488

Mean Ridgew ch. C.R.H. Bk 6:194

2:40	AC 5789	11.2	11.2	11.20 ✓	
2:00	AC 4172	11.9	12.0	11.95 0' ✓	
	AC 13364	10.6	10.6	10.60 ✓	
	AC 20225	11.9	12.0	11.95 0' ✓	
	AC 5015	11.8	11.9	11.85 0' ✓	11.85
	AC 10874	11.6	11.7	11.65 0' ✓	
	AC 4618	10.8	11.0	10.90 1' ✓	
	AC 19623	11.6	11.5	11.55 1 0 ✓	
	AC 2153	10.9	10.8	10.85 1 0 ✓	
	AC 14270	10.2	10.4	10.30 1' ✓	
	AC 17791	10.1	10.0	10.05 1 0 ✓	
	AC 3916	11.1	11.0	11.05 1 0 ✓	
	AC 13326	11.7	11.7	11.70 ✓	
	AC 7646	<9.8	<9.8	<9.8 ✓	J.J.
	AC 5127	<9.8	<10.2	<10.2 ✓	
	AC 14519	11.9	11.9	11.90 ✓	
	AC 20597	~~<10.2 <9.5~~	<10.6	<10.6 ✓	
	AC 15607	12.1	11.9	12.00 1' ½ ✓	11.85
	AC 6898	10.8	11.0	10.90 1' ✓	
	AC 5280	10.9	10.6	10.75 2 1' ✓	
	AC 10905	11.4	11.4	11.40 ✓	
	AC 4711	11.3	11.6	11.45 1 2 ✓	
	AC 14567	11.8	11.8	11.80 ✓	
	AC 18548	10.9	10.8	10.85 1 0 ✓	10.90
3:00	AC 6744	11.9	11.8	11.85 1 0 ✓	
2:15					

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1918phae.proj..694A

Saturday March 22, 1919
Tuesday March 25, 1919
R Y Cass.

				Mean G.M.T.	Bk 6: 194
2:30	AC 12558	11.6	11.6	11.60 ✓	
12:15	AC 6046	<11.0	<11.0	<11.0 ✓	
	AC 14483	10.3	10.2	10.25 0' ✓	
	AC 5096	10.8	11.0	10.90 ± 1' ✓	
	AC 13549	10.8	11.9	11.85 0' ✓	
	AC 5476	11.0	11.5	11.25 ± 2 3 ✓	
	AC 15718	10.9	11.0	10.95 0' ✓	
	AC 6479	10.8	10.9	10.85 0' ✓	
	AC 12703	10.8	10.8	10.80 ✓	
	AC 16850	11.0	10.8	10.90 ' ± ✓	
	AC 13413	10.8	10.8	10.80 ✓	
	AC 5640	11.9	11.9	11.90 ✓	11.75
	AC 14284	10.9	11.2	11.05 ± 2 ✓	
	AC 19573	11.8	12.0	11.90 ± 1' ✓	
	AC 9202	12.0	11.9	11.95 ' 0 ✓	
	AC 13642	10.4	10.4	10.40 ✓	
	AC 5780	10.0	10.2	10.10 ± 1' ✓	10.15
	AC 12663	10.9	11.1	11.00 ± 1' ✓	
	AC 5503	11.0	11.0	11.00 ✓	
	AC 5185	11.5	11.5	11.50 ✓	
	AC 2650	11.6	11.7	11.65 0' ✓	
	AC 5386	10.2	10.3	10.25 0 1 ✓	
	AC 12543	10.3	10.0	10.10 ' 1 ✓	10.20
	AC 6501	11.0	11.0	11.00 ✓	
	AC 8814	10.9	10.8	10.85 ' 0 ✓	
2:45					
12:30					

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1918phae.proj..694A

Saturday March 2 2, 19 9
Tuesday March 25, 19 9
R Y Cas.
Means Lodge a. h. l. H.

2:45	AC 3078	11.0	11.0	11.00 ✓	
12:00	AC 12179	11.0	11.0	11.00 ✓	11.15
	AC 2519	10.9	10.8	10.85' 0 ✓	
	AC 10013	11.0	11.0	11.00 ✓	11.05
	AC 9065	11.3	11.3	11.30 ✓	
	AC 10948	11.6	11.6	11.60 ✓	
	AC 9939	11.0	11.0	11.00 ✓	
	AC 11291	11.9	11.8	11.85' 0 ✓	
	AC 13526	11.6	11.6	11.60 ✓	
	AC 10852	10.4	10.2	10.30' 1 ✓	10.60
	AC 9168	11.6	11.7	11.65' 0 ✓	
	AC 862	<11.0	<11.0	<11.0 ✓	
	AC 14579	10.1	10.1	10.10 ✓	10.20
	AC 11033	11.7	11.5	11.60' 1 ✓	
	AC 2777	11.9	11.8	11.85' 0 ✓	
	AC 12007	<10.6	<10.6	<10.6 ✓	
	AC 4524	11.4	11.0	11.20 2 2 ✓	
	AC 7252	10.2	10.6	10.40 2 2 ✓	
	AC 11190	11.2	11.4	11.30 1 1 ✓	
	AC 14702	11.9	11.9	11.90 ✓	
	AC 12674	11.7	11.5	11.60' 1 ✓	
	AC 7005	11.7	11.7	11.70 ✓	
	AC 11100	10.6	10.8	10.70 1 1 ✓	10.75
	AC 6866	11.6	11.6	11.60 ✓	
	AC 15529	10.9	10.9	10.90 ✓	
3:00	AC 6635	11.0	10.9	10.95' 0 ✓	
12:15					

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Monday March 24, 1919

RZ Cass.

Mean Ledger a.h.t. 6:194

10:30	AC 9031	11.6	11.5	11.55 ¹⁰ ✓	
2:40	AC 2085	10.9	10.6	10.75 ²¹ ✓	10.90
	AC 12379	11.0	11.2	11.10 ¹¹ ✓	11.20
	AC 8682	11.4	11.0	~~11.20~~ ²² ✓	11.30
	AC 15449	11.3	11.3	11.30 ✓	
	AC 3060	10.5	10.8	10.65 ¹² ✓	10.50
	AC 7769	11.5	11.0	11.25 ³² ✓	11.00
	AC 11962	10.2	10.1	10.15 ¹⁰ ✓	10.20
	AC 919	11.6	11.6	11.60 ✓	
	AC 2751	11.8	11.7	11.75 ¹⁰ ✓	
	AC 14745	12.0	11.9	11.95 ¹⁰ ✓	
	AC 13233	10.4	10.4	10.40 ✓	
	AC 2141	10.5	10.4	10.45 ¹⁰ ✓	
	AC 13457	11.8	11.7	11.75 ¹⁰ ✓	
	AC 2684	11.6	11.5	11.55 ¹⁰ ✓	
	AC 1696	<11.0	<11.0	<11.0 ✓	
	AC 12809	10.8	10.8	10.80 ✓	
	AC 2188	10.2	10.1	10.15 ¹⁰ ✓	10.40
	AC 3168	10.1	10.2	10.15 ⁰¹ ✓	10.45
	AC 15754	11.6	11.3	11.45 ²¹ ✓	
	AC 19774	10.9	10.9	10.90 ✓	11.15
	AC 12322	<10.6	<10.6	<10.6 ✓	t.p.
	AC 4355	11.9	11.9	11.90 ✓	
	AC 11734	10.6	10.8	10.70 ¹¹ ✓	
10:45	AC 16821	11.5	11.5	11.50 ✓	
2:55					

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Monday March 24 1919

R Y Cass.

Means Ludger de. R.R.T. 6:194

10:45	AC 5239	11.6	11.5	11.55 ' 0 ✓	
2:20	AC 11302	11.0	11.0	11.00 ✓	
	AC 2077	11.9	11.7	11.80 ' 1/2 ✓	
	AC 8760	11.5	11.6	11.55 ' 0 ✓	
	AC 14191	11.7	11.6	11.65 ' 0 ✓	
	AC 18249	11.0	10.8	10.90 ' 1/2 ✓	
	AC 5357	11.4	11.5	11.45 ' 0 ✓	
	AC 11111	11.7	11.8	11.75 ' 0 ✓	
	AC 6933	11.9	11.8	11.85 ' 0 ✓	
	AC 2964	10.2	10.3	10.25 ' 0 ✓	
	AC 8637	11.5	11.6	11.55 ' 0 ✓	
	AC 19273	11.0	11.3	11.15 ' 1/2 ✓	
	AC 12391	11.2	11.0	11.10 ' 1/2 ✓	
	AC 7096	<11.0	11.7	11.7 ✓	<11.0
	AC 3284	11.7	11.5	11.60 ' 1/2 ✓	
	AC 18042	12.0	11.9	11.95 ' 0 ✓	
	AC 11077	<10.6	11.7	11.7 ✓	
	AC 2063	11.5	11.4	11.45 ' 0 ✓	11.45
	AC 7307	11.5	11.5	11.50 ✓	
	AC 17812	11.7	11.6	11.65 ' 0 ✓	
	AC 4128	11.0	11.0	11.00 ✓	
	AC 5969	<11.0	<11.0	<11.0 ✓	
	AC 12326	11.9	11.9	11.90 ✓	
	AC 16142	11.0	11.2	11.10 ' 1/2 ✓	
11:00	AC 3289	12.0	12.0	12.00 ✓	
2:35					

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Monday March 24, 1919

R Y Cass.

Mean Ledger a. 2.2.4. 6;194

11:05	AC 7839	11.2	11.0	11.10	11 ✓
1:55	AC 12528	10.8	10.8	10.80	✓
	AC 7712	10.1	10.0	10.05	10 ✓
	AC 7227	11.7	11.6	11.65	10 ✓
	AC 7145	11.7	11.7	11.70	✓
	AC 6681	10.6	10.6	10.60	✓
	AC 12622	10.7	10.6	10.65	10 ✓
	AC 13312	10.8	10.8	10.80	✓
	AC 5745	10.8	11.0	10.90	11 ✓
	AC 6645	11.0	11.0	11.00	✓
	AC 4335	11.4	11.3	11.35	10 ✓
	AC 3866	11.7	11.5	11.60	11 ✓
	AC 11255	11.2	11.2	11.20	✓
	AC 8620	11.7	11.7	11.70	✓
	AC 1971	11.8	11.8	11.80	✓
	AC 652	10.4	10.4	10.40	✓
	AC 11921	<11.0	<11.0	<11.0	✓
	AC 4092	11.9	11.7	11.80	11 ✓
	AC 1883	10.9	10.9	10.90	✓
	AC 3223	11.6	11.6	11.60	✓
	AC 11724	11.7	11.6	11.65	10 ✓
	AC 4286	<11.0	<11.0	<11.0	✓
	AC 20349	<10.2	<10.2	<10.2	✓
	AC 5158	<10.6	<10.6	<10.6	✓
	AC 12611	11.6	11.6	11.60	✓
	AC 1996	11.9	11.9	11.90	✓
11:25	AC 3127	10.8	10.8	10.80	✓
4:15					

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1918phae.proj..694A

Wednesday March 26, 1919
Friday March 28, 1919
RY Cass.

				Mean Ledger ch. F. L. #.	6:194
9:50	27834	10.0	10.1	10.05 0' ✓	10.25
10:15	32180	10.8	11.0	10.90 1' ✓	
	29131	11.6	11.6	11.60 00 ✓	
	21111	10.6	10.6	10.60 ✓	
	75	10.9	11.0	10.95 0' ✓	
	16840	11.7	11.7	11.70 ✓	
	23520	10.8	10.8	10.80 ✓	
	33668	11.0	11.0	11.00 ✓ i.	
	7451	11.3	11.3	11.30 ✓	
	24190	11.0	10.8	10.90 1' ✓	
	23415	11.7	11.6	11.65 1' 0 ✓ e. g.	
	11467	10.9	10.9	10.90 ✓	
	9177	11.6	11.5	11.55 1' 0 ✓	
	9733	11.2	11.3	11.25 0' ✓	
	11839	10.7	10.8	10.75 0' ✓	
	18745	11.5	11.3	11.40 1' ✓	
	21189	11.6 ~~11.9~~	11.6	11.60 ✓ Wrong star was first	
	33663	10.8	10.8	10.80 ✓	
10:10	23965	11.0	11.1	11.05 0' ✓	
10:30		Friday March 28, 1919			
	9424	10.2	10.2	10.20 ✓	10.30

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1918phae.proj..694A

Thursday March 20, 1919

Scale B

Dm. Ref. Leg. $0^h +55°$

MC 9501

9:15

	Sc.1	Mean	Sc.2	Diff.	g Sc.2	h Sc.2	Mean Diff.	P.C. Sc.2 Diff.
	5.6							
1	5.3			2.52	10.6	10.9	10.65 −2.53	10.9 −2.78
	5.1							
1a	4.8			2.39	10.1	10.3	10.20 − 2.71	10.4 −2.91
	5.9							
1b	5.6			2.43	10.8	10.9	10.85 − 2.62	11.0 −2.67
	6.1							
1c	5.8			2.53	11.4	11.6	11.50 − 2.87	11.7 −3.07
	6.7							
2	6.4			2.14	11.6	11.8	11.70 −2.86	12.5 −3.66
	9.5							
3	7.2			1.78	11.9	12.3	12.10 −2.82	12.7 −3.42
	8.1							
4	7.8	8.16	8.2	1.78	13.0	13.0	13.00 −3.12	13.1 −3.22
	8.9							
4a	8.6	8.70	8.5	1.80	13.2	13.2	13.20 − 3.00	
	10.1							
4b	9.8	10.15	10.2	1.46				
	9.3							
5	9.6	9.45	9.6	1.24	13.8	13.9	13.85 −3.31	
	9.9							
6	9.6	9.86	9.8	1.36	14.0	14.0	14.00 −3.80	
	10.3							
7	10.0	10.50	10.7	1.14				
8			11.0	1.10				
9			11.6	.59				
10			11.7	.52				
10a			10.6	.99				
11			11.9	.94				
12		12.66	12.6	12.7	.57			
13		12.80	12.8	12.8	.54			
14		13.00	12.9	13.1	1.08			
15		13.70	13.7	13.7	.81			
16		14.00	14.0	14.0	.97			

9:55

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1918phae.proj..694A

Thursday March 20, 1919

Scale R

R R Cassiop.

MC 9501

9:55

	Dec. 1	Mean	Dec. 2	Curr.	Mag.	g Dec 1	g Dec 2	g Mean	g Curr	g Mag.	pc. Dec 2	pc. Curr.	pc. Mag.
	7.9 6												
a	7.7			1.75	9.65	12.7	12.8	12.75	-3.02	9.72	13.6		
	6.7												
b	6.4			2.14	8.84	11.4	11.2	11.30	-2.73	8.57	11.9	-3.04	8.86
	7.9												
c	7.6			1.75	9.65	12.8	12.8	12.80	-3.03	9.77	13.4		
	7.4												
d	7.1			1.93	9.13	11.7	11.8	11.75	-2.83	8.92	12.8	-3.36	9.44
	7.7												
e	7.4			1.82	9.52	12.5	12.4	12.45	-2.97	9.48	13.0	-3.41	9.59
	8.2												
f	7.9	8.15	8.1	1.65	9.80	12.9	13.0	12.95	-3.04	9.91	13.8		
	8.4												
g	8.1	8.50	8.6	1.53	10.03	13.1	13.2	13.15	-3.08	10.07			
	9.0												
h	8.7	8.95	8.9	1.40	10.35	13.5	13.7	13.60	-3.09	10.51			
	9.5												
k	7.2	9.60	9.7	1.23	10.83								
l			10.7	.97	11.67								
m'			11.6	.90	11.90								
m			10.8	.97	11.67								
m'			11.3	.82	12.12								
n			12.0	.70	12.70								
o		12.40	12.4	12.4	.68	13.08							
p		12.60	12.6	12.6	.70	13.30							
q	Strongest nebs. first	13.00	13.0 ~~12.8~~	13.0 ~~12.7~~	.76	13.76							
r		13.70	13.7	13.7	.88	14.58							
s		13.90	13.9	13.9	.92	14.82							

10:45

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1918phae.proj..694A

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Thursday March 20, 1919

Scale R.

N.G.C. 7789

MC 9501

10:50		Sc 1	Mean	Sc 2	Curve	Mag.	g Sc 2	h Sc 2	Mean	Curve	Mag.	P.C. Sc 2	Curve	Mag.
	1	4.7 ~~5~~ 4.4 7.1					9.8	9.8	9.80			10.2	-2.67	7.53
	1a	6.8 6.2			2.02	9.12	11.9	11.9	11.90	-2.87	9.03	12.8	-3.36	9.44
	2	5.9 5.6			2.30	8.50	10.6	10.6	10.60	-2.60	8.00	11.0	-2.90	8.10
	3	6.3 6.8			2.47	8.07	10.7	11.0	10.85	-2.64	8.21	11.8	-3.10	8.70
	3a	6.5 7.2			2.11	8.91	11.5	11.6	11.55	-2.80	8.75	11.9	-3.14	8.76
	3b	6.9 7.3			2.00	9.20	11.8	11.7	11.75	-2.83	8.92	12.8	-3.36	9.44
	3c	7.0 6.5			1.97	9.27	11.8	11.8	11.80	-2.84	8.96	12.6	-3.32	9.28
	3d	6.2 7.0			2.20	8.70	11.6	11.7	11.65	-2.82	8.88	11.9	-3.14	8.76
	4	6.7 7.9			2.05	9.05	11.7	11.8	11.75	-2.83	8.92	12.7	-3.33	9.37
	4a	7.6 8.2			1.75	9.65	12.7	12.8	12.75	-3.02	9.73	13.0	-3.41	9.59
	5	7.9 8.7	8.20	8.2	1.63	9.83	12.9	12.9	12.90	-3.04	9.86	13.7	.	.
	5a	8.4 9.0	8.65	8.6	1.50	10.10	13.0	12.8	12.90	-3.04	9.86	n.s.		
	5b	8.7 8.3	9.00	9.0	1.40	10.40	13.6	13.7	13.65	-3.09	10.56			
	5c	8.0 9.2	8.30	8.3	1.60	9.90	D.sup.							
	5d	8.9 8.1	9.20	9.2	1.34	10.54	13.7	13.7	13.70	-3.09	10.61			
	5e	7.8 9.4	8.05	8.0	1.70	9.75	star sup.							
	6	7.1 9.8	9.45	9.5	1.28	10.73								
	7	9.5	9.75	9.7	1.20	10.95								
	8			10.6	.98	11.58								
	9			10.9	.92	11.82								
	9a			11.0	.90	11.90								
	9b			11.1	.87	11.97								
	9c			11.6	.76	12.36								
	10			11.8	.72	12.52								
	10a			11.9	.70	12.60								
	11			12.4	.68	13.08								
11:40	11a			12.5	.70	13.20								

	Sc 2	Sc 2	Mean	Curve	Mag.
11b	13.4	13.4	13.40	.84	14.24
12	12.7	12.8	12.75	.72	13.47
13	13.0	12.9	12.95	.75	13.70
14	13.6	13.6	13.60	.87	14.47
15	13.8	13.8	13.80	.90	14.70
16	n.s.				
17	"				

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Friday March 21, 1919

Scale R

NGC 7789

MC 9349

9:00

		Sc 1		Sc 2	Curve	Mag.	g Sc 2	b Sc 2	Mean.	Curve	Mag.	P.C. Sc 2	Curve	Mag.
		4.6												
1		4.3			2.90	7.50	9.8	9.8	9.80			10.6	-3.13	7.47
		7.1												
1a		6.8			2.23	9.33	12.1	12.2	12.15	-3.12	9.03	13.1	-3.70	9.40
		6.0												
2		5.7			2.54	8.54	10.6	10.7	10.65	-2.67	7.98	11.5	-3.36	8.14
		6.0												
3		5.7			2.54	8.54	10.9	11.1	11.00	-2.78	8.22	12.0	-3.48	8.52
		6.4												
3a		6.1			2.44	8.84	11.6	11.6	11.60	-3.00	8.60	12.5	-3.58	8.92
		7.0												
3b		6.7			2.26	9.26	12.4	12.0	12.20	-3.12	9.08	12.9	-3.65	9.25
		7.1												
3c		6.8			2.23	9.33	12.0	12.0	12.00	-3.09	8.91	12.9	-3.65	9.25
		6.5												
3d		6.2			2.40	8.90	11.7	11.7	11.70	-3.00	8.70	12.2	-3.81	9.69
		6.9												
4		6.6			2.28	9.18	11.9	12.0	11.95	-3.08	8.87	12.8	-3.64	9.16
		7.8												
4a		7.5			2.08	9.88	12.8	12.8	12.80	-3.20	9.60	13.5	-3.72	9.78
		8.2												
5		7.9	8.20	8.2	1.88	10.08	13.3	13.1	13.20	-3.20	10.00	13.8	-3.74	10.06
		8.5												
5a		8.2	8.50	8.5	1.77	10.27	13.4	13.6	13.50	-3.20	10.30			
		9.0												
5b		8.7	8.90	8.8	1.64	10.54	13.7	13.6	13.65	-3.20	10.45			
		8.3												
5c		8.0	8.35	8.4	1.82	10.17								
		8.9												
5d		8.6	8.90	8.9	1.64	10.54	13.7	13.7	13.70	-3.20	10.50			
		8.1												
5e		7.8	8.05	8.0	1.92	9.97	13.6	star sup	13.6	-3.20	10.40			
		9.2												
6		8.9	9.30	9.4	1.60	10.80		Sc 2	Mean	Curve	Mag.			
7				9.8	1.33	11.13	11a	12.6		.48	13.08			
8				10.5	1.10	11.60	11b	13.7	13.8	13.75	.77	14.52		
9				10.9	.95	11.85	12	13.0	13.0	13.00	.52	13.52		
9a				11.6	.70	12.30	13	13.5	13.6	13.55	.69	14.24		
9b				11.8	.64	12.44	14	13.9	13.8	13.85	.80	14.65		
9c				11.7	.66	12.36	15	14.0	14.0	14.00	.88	14.88		
10				11.7	.66	12.36	16	n.s.						
9:55	10a			12.2	.52	12.72	17							
11				12.4	.58	12.90								

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1918phae.proj..694A

Friday March 21, 1919

Scale R. RR Cassiop.

MC 9349

9:55

	Dc.1		Dc.2	Curve Mag.	g Dc.2	h Dc.2	Mean Curve Mag.	P.C. Dc.2	Curve Mag.
	8.0								
a	7.7			1.94 9.94	12.9	12.9	12.90 -3.20 9.70	13.7 -3.73	9.97
	6.5								
b	6.2			2.40 8.90	11.4	11.4	11.40 -2.92 8.48	12.2 -3.51	8.69
	7.7								
c	7.4			2.04 9.74	12.8	13.0	12.90 -3.20 9.70	13.4 -3.71	9.69
	7.3								
d	7.0			2.16 9.46	11.9	12.2	12.05 -3.10 8.95	12.7 -3.62	9.08
	7.4								
e	7.1			2.13 9.53	12.5	12.7	12.60 -3.20 9.40	13.0 -3.67	9.33
	8.1			1.90					
f	7.8	8.10	8.1	~~2.01~~ 10.00	13.3	13.5	13.40 -3.20 10.20	14.0 -3.74	10.26
	8.5								
g	8.2	8.55	8.6	1.74 10.29	13.6	13.7	13.65 -3.20 10.45		
	9.0								
h	8.7	9.00	9.0	1.60 10.60					
	9.4								
k	9.1	9.55	9.7	1.42 10.97					
	10.1								
l	9.8	10.35	10.6	1.15 11.50					
m			10.6	1.07 11.67					
m'			11.6	.70 12.30					
n			12.3	.50 12.80					
n'		11.85	11.8	11.9 .62 12.47					
o		12.65	12.7	12.6 .49 13.14					
p		12.80	12.8	12.8 .50 13.30					
q		13.20	13.2	13.2 .58 13.78					
r		13.80	13.8	13.8 .78 14.58					
Q		n.s.	n.s.						

10:30

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1918phae.proj..004A

Friday March 21, 1919

Deslie R. DM Ref. Seq. 0^h+55^s

MC 9349

		Sc. 1	Mean Sc. 1	Sc. 2	Diff.	g Sc. 2	h Sc. 2	Mean Diff	P.C. Sc. 2	Diff Mean
10:30		5.4								
	1	5.1			2.72	10.7	10.7	10.70 - 3.68	11.6	-3.48
	1a	4.6 / 4.3			2.89	10.4	10.2	10.30 - 2.81	10.6	-3.11
	1b	5.7 / 5.4			2.63	10.9	10.9	10.90 - 2.57	11.7	-3.37
	1c	6.1 / 5.8			2.53	11.7	11.7	11.70 - 3.07	12.0	-3.37
	2	6.6 / 6.3			2.24	11.9	11.8	11.85 - 3.01	12.6	-3.76
	3	7.0 / 6.7			2.28	12.6	12.8	12.70 - 3.42	12.9	-3.62
	4	8.2 / 7.9	8.20	8.2	1.68	13.1	12.9	13.00 - 3.12	13.6	-3.72
	4a	8.1 / 7.8	8.20	8.3	2.00	13.0	13.2	13.10 - 2.90		
	4b	10.0 / 9.7	10.05	10.1	1.50					
	5	9.1 / 8.8	9.05	9.0	1.49	13.7	13.8	13.75 - 3.21		
	6			10.3	.90					
	7			10.7	.94					
	8			11.0	1.10					
	9			11.7 / ~~12.3~~	.49					
	10			11.8	.52					
	10a			10.6	.99					
	11			11.8	1.04	Re examined Mar. 22, 1919 found to be wrong measure.				
	12	12.60	12.6	12.6	.62					
	13	12.90	12.9	12.9	.44					
	14	13.60	13.5	13.5	.58					
	15	13.65	13.6	13.7	.86					
10:55	16	14.00	14.0	14.0	.91					

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1918phae.proj..694A

Saturday March 22, 1919

Scale B. R R Cassiop.

MC 9021

9:05

	Sc 1	Sc 2	Curve	Mag.	g Sc. 1	h Sc. 2	Mean.	Curve	Mag.	P.C. Sc. 2	Curve	Mag.
	8.8											
a	8.5	8.80	8.8	.73	9.53	13.7	13.9	13.80	-4.00	9.80		
	7.6											
b	7.3			1.25	8.85	12.6	12.6	12.60	-3.83	8.77	13.0	-4.20 8.80
	8.8								4.00	75		
c	8.5	8.70	8.6	.77	9.47	13.7	13.8	13.76	-~~3.87~~	9.~~88~~		
	8.1											
d	7.8	8.15	8.2	1.00	9.16	12.9	13.1	13.00	-3.92	9.08	13.7	-4.30 9.40
	8.2											
e	7.9	8.30	8.4	.94	9.24	13.4	13.4	13.40	-3.98	9.42	13.9	-432 9.58
	9.2											
f	8.9	9.30	9.4	.54	9.84	13.9	14.0	13.95	-4.00	9.95		
g	def.											
	9.9											
h	9.6	9.85	9.8	.40	10.25							
k			10.7	.16	10.86							
l			11.4	.00	11.40							
m			11.6	-.05	11.55							
m'			12.4	-.25	12.15							
n	12.95	13.0	12.9	-.32	12.63							
n'	12.70	12.7	12.7	-.30	12.40							
o	13.50	13.5	13.5	-.32	13.18							
p	13.70	13.7	13.7	-.33	13.37							
q	13.90	13.9	13.9	-.32	13.48							
r			n.s.									
s			n.s.									

9:35

Images not very comparable with scale – rather elongated.

1918phae.proj..694A

Saturday March 22, 1919

Scale R. DM Ref. Seq. 0h +55°

MC 9021

9:35

	Sc.1	Mean Sc 2		Diff.	q h Sc.1	Sc 2	Mean	Diff.	P.C. Sc.2	Diff.
	6.2									
1	5.9			1.92	11.7	11.6	11.65	- 3.53	12.1	- 3.98
	5.3									
1a	5.0			2.19	10.9	10.9	10.90	- 3.41	10.9	- 3.41
	6.8									
1b	6.5			1.53	11.8	11.8	11.80	- 3.47	12.4	- 4.07
	7.1									
1c	6.8			1.53	12.5	12.6	12.55	- 3.92	12.8	- 4.17
	7.9									
2	7.6			.94	12.8	12.8	12.80	- 3.96	13.7	- 4.86
	8.2									
3	7.9			1.84	13.2	13.2	13.20	- 3.92	14.0	- 4.72
	9.6									
4	9.3	9.60	9.6	.28	13.8	13.9	13.85	- 3.97		
	9.9									
4a	9.6	9.80	9.7	.40						
4b			11.0	.56						
	10.1									
5	9.8	10.25	10.4	.29						
6			10.8	.40						
				- 16						
7			11.8	-84						
8			11.9	.20						
9			12.7	- .51						
10			12.8	- .48						
10a	11.70	11.7	11.7	- .11						
Mongstar Meas 11	13.05	13.0	~~13.2~~ 13.1	- .21						
12	13.50	13.6	13.4	- .28						
13	13.80	13.8	13.8	- .46						
14	14.00	14.0	14.0	- .08						
15			N.S.							
16			"							

10:05

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1918phae.proj..694A

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Saturday March 22, 1919

Scale R

NGC 7789

MC 9121

10:05

	Sc 1	Mean Sc 2		Curve	Mag.
	5.5				
1	5.2			2.17	7.67
	8.0				
1a	7.7			1.06	9.06
	6.7				
2	6.4			1.65	8.35
	7.0				
3	6.7			1.51	8.51
	7.8				
3a	7.5			1.15	8.95
	8.1				
3b	7.8	8.15	8.2	1.00	9.15
	8.1				
3c	7.8	8.05	8.0	1.04	9.09
	7.7				
3d	7.4			1.20	8.90
	7.9				
4	7.6			1.10	9.00
	9.0				
4a	8.7	8.90	8.8	.68	9.58
	9.7				
5	9.4	9.65	9.6	.47	10.12
	9.6				
5a	9.3	9.70	9.8	.45	10.15
	10.0			.34	
5b	9.7	10.00	10.0	.38	10.34
	9.8				
5c	9.5	9.80	9.8	.40	10.20
	10.0				
5d	9.7	10.10	10.0	.32	10.42
	9.1				
5e	8.8	9.25	9.4	.56	9.81
	10.2				
6	9.9	10.40	10.6	.24	10.64
7			10.7	.17	10.87
8			11.6	-.05	11.55
9			12.0	-.16	11.84
9a			13.4	-.25	12.15
9b			12.6	-.28	12.32
9c			12.8	-.31	12.49
10			12.9	-.32	12.58
10a			13.2	-.34	12.86
10:50 11			13.1	-.34	12.76

g h.

	Sc 2	Sc 2	Mean Curve	Mag.
	10.5	10.6	10.55	
	13.2	13.0	13.10	-3.93 9.17
	11.6	11.7	11.65	-3.60 8.05
	12.0	12.0	12.00	-3.68 8.32
	12.6	12.8	12.70	-3.86 8.84
	13.0	13.0	13.00	-3.91 9.09
	12.9	12.9	12.90	-3.90 9.00
	12.7	12.8	12.76	-3.88 8.87
	12.8	13.0	12.90	-3.90 9.00
	13.7	13.6	13.65	-3.99 9.66
	14.0	14.0	14.00	-4.00 10.00
	13.8		13.8	

	Sc 2	Sc 2	Mean Curve	mag.
11a	13.4	13.3	13.35	-.34 13.01
11b	13.7	13.6	13.65	-.33 13.32
12	13.8	13.8	13.80	-.32 13.48
13	13.9	13.9	13.90	-.32 13.58
14	14.0	14.0	14.00	-.31 13.69
15	N.S			
16	N.S			
17	N.S			

P.E.

Sc 2	Curve	Mag.
10.6	-3.40	7.20
13.7	-4.31	9.39
12.0	-3.90	8.10
12.8	-4.16	8.64
13.4	-4.28	9.12
13.8	-4.32	9.48
13.8	-4.32	9.48
13.0	-4.20	8.80
13.6	-4.30	9.30

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1918phae.proj..694A

Thursday March 27, 1919
Tuesday April 1, 1919
T Z Cass.

Refl. MC 11746
(Same as U Mass Seq.)

Mean Ledger A.L.H.

	10:50	AC 17839	11.3	11.3	11.30 ✓	
C.S.	Mag. 1:50	AC 12528	11.2	11.6	11.40 ± 2 ✓	
a	9.4	AC 7712	210.8	·	✓	Star g does not have a good image on most of the AC Plates
b	9.8	AC 7227	11.4	11.4	11.40 ✓	
c	9.8	AC 7145	11.0	11.1	11.05 ± 0 ✓	
d	10.2	AC 6681	11.3	11.2	11.25 ± 0 ✓	
e	10.6	AC 12622	11.4	11.4	11.40 ✓	
f	10.8	AC 13312	<11.4	·	✓	
g	11.4	AC 5745	11.4	11.4	11.40 ✓	
h	11.9	AC 6645	11.2	11.2	11.40 ✓	
k	12.6	AC 4335	11.3	11.6	11.45 ± 2 ✓	
		AC 3866	<11.4	·	✓	
		AC 11255	11.2	11.4	11.30 ± 1 ✓	
		AC 8620	11.2	11.4?	11.30 ± 1 ✓	
		AC 1971	11.4	11.8	11.60 ± 2 ✓	
		AC 656	11.4	11.3	11.35 ± 0 ✓	
		AC 11921	11.2	11.2	11.20 ✓	
		AC 4092	11.9	12.0	11.95 ± 0 ✓	
		AC 1883	11.1	11.2	11.15 ± 0 ✓	
		AC 3223	11.4	11.4	11.40 ✓	
		AC 11724	11.1	11.3	11.20 ± 1 ✓	
		AC 4526	11.4	11.4	11.40 ✓	
		AC 20349	<10.2	·	✓	
		AC 5158	<10.8	·	✓	
		AC 12611	<10.8	·	✓	
		AC 1996	11.4	11.4	11.40 ✓	
	11.20	AC 3127	11.2	11.4	11.30 ± 1 ✓	
	1:05					

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1918phae.proj..694A

Friday March 28, 1919
Tuesday April 1, 1919

IZ Cass.

Mean Lodge ch. A.I.H.

1:55	AC 9031	11.4	11.6	11.50 ± 1 ✓
2:30	AC 2085	< 10.8	.	✓
	AC 12379	< 10.8	.	✓
	AC 8682	11.3	11.4	11.35 01 ✓
	AC 15449	11.5	11.8	11.65 ± 2 ✓
	AC 3060	11.4	11.6	11.50 ± 1 ✓
	AC 7769	< 11.4	.	✓
	AC 11962	11.2	11.2	11.20 ✓
	AC 919	11.9	11.9	11.90 ✓
	AC 2751	11.4	11.2	11.30 ± 1 ✓
	AC 14745	11.9	12.0	11.95 01 ✓
	AC 13233	< 10.8	.	✓
	AC 2141	11.8	11.5	11.65 2 ± 1 ✓
	AC 13451	< 10.8	.	✓
	AC 2684	11.5	11.6	11.55 01 ✓
	AC 1696	11.1	n.s.	✓ assume < 11.1
	AC 17809	11.5	11.4	11.45 10 ✓
	AC 2188	< 11.4	.	✓
	AC 3168	< 10.8	.	✓
	AC 15954	11.2	11.3	11.25 01 ✓
	AC 19774	11.1	11.3	11.15 ± 2 ✓
	AC 12322	< 10.8	.	✓
	AC 4355	12.1	12.1	12.10 ✓ d. 12.0
	AC 11734	11.4	11.4	11.40 ✓
2:20	AC 16821	11.9	11.7	11.80 ± 1 ✓
2:40				

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Friday March 28, 1919
Tuesday April 1, 1919
J. J. Cass.

Means Ledger ch. 2 & 4.

2:20	AC 5239	11.6	11.5	11.55 10 ✓
2:10	AC 11302	11.3	11.6	11.45 12 ✓
	AC 2077	12.0	11.9	11.95 10 ✓
	AC 8760	12.0	11.6	11.80 22 ✓
	AC 14191	<11.4	.	✓
	AC 18249	11.4	11.4	11.40 ✓
	AC 5357	<11.4	.	✓
	AC 11111	11.3	11.3	11.30 ✓
	AC 6933	11.6	11.4	11.50 11 ✓
	AC 2964	11.3	11.2	11.25 10 ✓
	AC 8637	11.6	11.6	11.60 ✓
	AC 19273	<0.8	.	✓
	AC 12391	11.4	11.4	11.40 ✓
	AC 7096	11.4	n.s.	✓ Assume n.s., < 11.4 N.S.L.
	AC 3204	11.2	11.1	11.15 10 ✓
	AC 18042	11.2	11.3	11.25 01 ✓
	AC 11077	<11.4	.	✓
	AC 2063	11.3	11.4	11.35 01 ✓
	AC 7307	11.3	11.5	11.40 11 ✓
	AC 17812	11.2	11.2	11.20 ✓
	AC 4128	11.5	11.7	11.60 11 ✓
	AC 5969	11.5	n.s.	✓ Assume <10.8
	AC 12326	11.9	11.8	11.85 10 ✓
	AC 16142	11.4	11.7	11.55 12 ✓
2:40	AC 5289	11.2	11.2	11.20 ✓
2:20				

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Saturday March 29, 1919
Thursday April 3, 1919

Sg Cass.

Mean Ledgers. L.S.T.

2:05	AC 13698	11.4	11.7 ~~11.0~~	11.55 $^{+2}$ ✓	
2:40	AC 17285	11.3	11.3	11.30 ✓	
	AC 14438	11.2	11.2	11.20 ✓	
	AC 1765	<10.8	.	✓	
	AC 8608	11.6	11.4	11.50 $^{+1}$ ✓	
	AC 10859	11.4	11.4	11.40 ✓	
	AC 18851	11.4	11.4	11.40 ✓	
	AC 7696	<10.8	.	✓	
	AC 15822	11.4	11.7	11.55 $^{+2}$ ✓	
	AC 11137	11.5	11.4	11.45 $^{+0}$ ✓	
	AC 19232	11.0	11.0	11.00 ✓	g.
	AC 6815	11.2	11.2	11.20 ✓	
	AC 15506	11.3	11.8	11.55 $^{+3}$ ✓	
	AC 5520	<10.8	.	✓	
	AC 12546	11.3	11.4	11.35 $^{-0}$ ✓	
	AC 7171	11.4	11.2	11.30 $^{+1}$ ✓	
	AC 10950	11.6	11.7	11.65 $^{-0}$ ✓	
	AC 19053	11.1	11.2	11.15 ^{0} ✓	
	AC 15803	11.5	11.4	11.45 $^{+0}$ ✓	
	AC 4592	11.4	11.3	11.35 $^{+0}$ ✓	
	AC 6551	11.1	11.1	11.10 ✓	
	AC 7262	11.5	11.4	11.45 $^{+0}$ ✓	p
	AC 9060	11.4	11.7	11.55 $^{+2}$ ✓	
	AC 15512	11.6	11.4	11.50 $^{+1}$ ✓	
2:25	AC 5769	12.0	12.0	12.00 ✓	12.0
2:55					

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Saturday March 29, 1919
Thursday April 3, 1919

F J Cass

				Mean Lodge cl. C.L.S.
2:25	AC 4172	11.6?	11.5	11.55 '0 ✓
2:25	AC 13364	<11.4		✓
	AC 20225	11.5	11.3	11.40 '1 ✓
	AC 5015	11.1	11.2	11.15 °' ✓
	AC 10874	11.4	11.4	11.40 ✓
	AC 4618	11.6	11.7	11.65 °' ✓
	AC 19623	11.4	11.4	11.40 ✓
	AC 2153	11.8?	12.0	11.90 -1' ✓
	AC 14270	11.6	11.8	11.70 -1' ✓
	AC 17791	<10.8		✓
	AC 3916	11.9	<11.4 h.s.	✓ <11.4
	AC 13326	12.0	12.1	12.05 °' ✓
	AC 7646	<10.8		✓
	AC 5127	<10.2		✓
	AC 14519	11.7	11.6	11.65 '0 ✓
	AC 20597	<10.8		✓
	AC 15607	11.8	11.8	11.80 ✓
	AC 6898	11.1	11.2	11.15 °' ✓
	AC 5280	11.5	11.4	11.45 '0 ✓
	AC 10905	11.3	11.4	11.35 °' ✓
	AC 4711	11.4	11.4	11.40 ✓
	AC 14567	11.9	11.6	11.75 2-1 ✓
	AC 18548	11.2	11.4	11.30 -1' ✓
	AC 6744	11.2	11.3	11.25 °' ✓
3:45	AC 14621	12.1?	12.1	12.10 ✓ Def. near var.
2:40				

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Monday March 31, 1919

Thursday April 3, 1919

I Z Cass.

Mean Ledger a. C.C.T.

3:00	AC 12558	11.6	11.7	11.65 0' ✓
3:10	AC 6046	<10.8		✓
	AC 14483	11.8	11.7	11.75 1' ✓
	AC 5096	11.3	11.3	11.30 ✓
	AC 13549	11.7	11.9	11.80 1' ✓
	AC 5476	11.7	11.9	11.80 1# ✓
	AC 15718	11.2	11.5	11.35 ½ ✓ Dep.
	AC 6479	<10.8		✓
	AC 12703	11.9	11.8	11.85 0' ✓
	AC 16850	11.7	11.8	11.75 0' ✓
	AC 13413	12.0	12.2	12.10 1' ✓
	AC 5640	11.4	11.4	11.40 ✓
	AC 14284	11.3	11.3	11.30 ✓
	AC 17573	11.3	11.4	11.35 0' ✓
	AC 9202	11.6	11.6	11.60 ✓
	AC 13642	11.7	11.7	11.70 ✓
	AC 5780	12.0	12.1	12.05 0' ✓ 12.2.
	AC 12663	11.5	11.4	11.45 0' ✓
	AC 5503	<11.4		✓
	AC 5185	11.4	11.4	11.40 ✓
	AC 2650	11.8	11.6	11.70 1' ✓
	AC 5386	11.9	12.1	12.00 1' ✓ 12.0
	AC 12543	11.6	11.4	11.50 1' ✓
	AC 6501	11.4	11.4	11.40 ✓
3:20	AC 8814	11.3	11.3	11.30 ✓
3:25				

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1918phae.proj. 694A

Monday March 31, 1919
Thursday April 3, 1919
γ Z Cas.

				Mean Ledgwick. Ast.
3:20	AC 3078	11.2	11.2	11.20 ✓
3:00	AC 12179	<10.8	.	✓
	AC 2019	11.3	11.4	11.35 ✓
	AC 10013	<10.8	.	✓
	AC 9065	11.2	11.7	11.45 ✓
	AC 10948	11.4	11.4	11.40 ✓
	AC 9939	<10.8	.	✓
	AC 11291	<11.4	.	✓
	AC 13576	12.2	12.1	12.15 ✓
	AC 10852	<10.8	.	✓
	AC 9168	11.7	11.6	11.65 ✓
	AC 8621	<10.8	.	✓
	AC 14549	11.4	h.s.	✓ <11.4
	AC 11033	11.6	11.5	11.55 ✓
	AC 2777	11.3	11.3	11.30 ✓
	AC 12007	<10.8	.	✓
	AC 4524	11.4	11.4	11.40 ✓
	AC 7252	11.4	11.4	11.40 ✓
	AC 11190	11.3	11.4	11.35 ✓
	AC 14702	11.8	12.0	11.90 ✓
	AC 12674	11.4	11.3	11.35 ✓
	AC 7005	11.4	11.1	11.25 ✓
	AC 11100	11.6	11.4	11.50 ✓
	AC 6866	11.2	11.2	11.20 ✓
	AC 15529	11.3	11.4	11.35 ✓
3:35	AC 6635	11.1	11.1	11.10 ✓
3:10				

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Friday ~~March~~ April 4, 1919

FZ Cass.

Mean Lodge ch. E.L.St.

9:30	l 75	11.7	12.1	11.90 ± 2 v
1:55	l 23415	12.0	12.1	12.05 0 1 v
	l 11690	11.4	11.5	11.45 0 1 v g.
	l 9734	11.3	11.4	11.35 0 1 v
	l 23965	11.9	11.9	11.90 v
	l 12132	11.5	11.5	11.50 v
	l 21189	11.6	11.8	11.70 ± 1 v
	l 13219	11.9	11.9	11.90 v
	l 21111	11.4	11.7	11.55 ± 2 v
	l 9176	11.2	11.4	11.30 ± 1 v
	l 18745	11.4	11.3	11.35 1 0 v
	l 4541	11.7	11.9	11.80 ± 1 v
	l 16860	12.0	12.1	12.05 0 1 v dy near var.
	l 11839	11.7	11.6	11.65 1 0 v
	l 23520	11.9	12.0	11.95 0 1 v
	l 11467	11.3	11.4	11.35 0 1 v
	l 25634	11.2	11.3	11.25 0 1 v
	l 9733	11.1	11.4	11.25 ± 2 v
	l 9177	11.3	11.4	11.35 0 1 v
	l 9451	11.9	12.0	11.95 0 1 v
9:50	l 24190	11.2	11.4	11.30 ± 1 v

10:15 The image of star "g" is very peculiar — It is evidently a red star but does not have an image similar to other red stars.

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Wednesday May 7, 1919

Variable +18° 3186

Region 17h +15°

	10:40	AM 1991	10.2 ✓	
C.S.	mag.	AM 12062	10.0 ✓	
e,	9.3	AC 20 ~~+09~~ 089	11.0 ✓	
f.	9.6	AC 9554	10.0 ✓	
g	10.0	AC 8479	10.3 ✓	g.
h	10.8	AC 20107	9.9 ✓	
	11:00	AC 860	<8.7 ✓	p. probably defect.
	2:10	AC 1829	9.8 ✓	e. i.
k	11.1	AC 1916	10.8 ✓	e. f.
k,	11.3	AC 2787	10.7 ✓	e. f.
		AC 3176	10.2 ✓	e. f. dark pl.
		AC 4962	10.0 ✓	f. i
		AC 18741	10.3 ✓	e.
		AC 17693	10.0 ✓	e. f.
		AC 10766	10.8 ✓	e. f.
		AC 10354	10.2 ✓	e. f.
		AC 13105	10.4 ✓	dotty pl
		AC 14236	10.9 ✓	f.
		AC 14989	9.4 ✓	i.
		AC 16170	11.2 ✓	e. f. p.
		AC 16516	10.9 ✓	e. f. dotty pl
		AC 17179	9.3 ✓	e. p.
		AC 19086	<10.0 ✓	e, i. f.
		AC 20038	9.8 ✓	
		AC 18360	10.8 ✓	p.
		AC 15189	10.7 ✓	i. f.
	7:45	AC 7673	11.3 ✓	

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Wednesday May 7, 1919

Var. + 18° 3.86

Region 17h + 15°

3:50	AC 6440	11.2 ✓	
	AM 2218	10.4 ✓	
	AM 2764	9.9 ✓	i
	AM 3074	10.6 ✓	
	AC 1788	11.2 ✓	p.
	AC 5097	10.4 ✓	p
	D 1678	9.4 ✓	e. i. p.
	D 11031	10.4? ✓	e.
3:05	D 25727	11.0 ✓	e. g.

pp. 217-220 These measures were made for Miss Raymond and given to Miss Leavitt to be sent Thurs. May 8, 1919. Thirdlist of plates ~~with their dates~~ was ~~were~~ to be re-estimated and ~~their~~ dates checked. M. D. A.

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Thursday May 8, 1919

Var. 18° 3186

Multiple Image Plates

See H. S. C. 41: 119.

11:50 RM 8 57

4 7

7 7

8 10.8?

9 10.4 9.8?

Images poor. near edge Dpl. p. clock running irregularly.

RM 1402

1 10.4 9.9

7 10.2 9.8

17 10.6?

gp. with wrong star at first " " " " " "

RM 472

11.0 ✓

gp. pm plate

RC 17648

1 t. f.

2 t. f.

5 t. f.

8 9.9?

Images poor - dark pl. Cannot see anything of var. until insp. 6

May be dyestuff in.

12:35

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Thursday May 8, 1919

Var. 18° 3.86

Multiple Exp. Plate

2:15 AM 1402

7	10.2	10.2	10.30
8	10.8		
9	10.8		
10	11.0		
11	11.1		
12	11.2		
13	11.7		
14	~~n.s~~ ~~11.3~~	11.27	
15	n.s ~~11.7~~		
16	n.s ~~11.0~~		
17	n.s ~~10.8~~	10.67	

QC 17648

1	~~10.~~ n.s		
2	n.s		
3	n.s.		
4	n.s.		
5	n.s		
6	f.f.		
7	10.8		
8	9.8		may be 9.5
9	10.0		
10	10.4?		h w s. im. of g corrected.
11	n.s.		

2:40

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