KG
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Observing Book I.

M. E. O'Reilly.

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Scale Corrections

Scale M – scale 1 correction, +0.2.

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Measures of Variables.
" " Standard Sequences.

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Saturday February 17, 1912

Measures of NV 2898.

NV 2898

I 12536
e 2 v
v 1 f

Ac 11865 ✓
poor plate.
var. ~~not~~ seen. Im. elongated.

✓ Ac 12146
d 3 v 10.36 10.27
v 1 e f 10.17 09 10

Ac 11873?
poor plate ✓

Ac 12012 ✓
c 2 v 9.94 9.95
v 1 d images 9.96 elated 01 01

✓ Ac 12082
d 1 v 10.16 10.33
v 2 f 10.50 17 17

Ac 12040 ✓
v 1 d 9.96 9.95
c 2 v 9.94 01 01

✓ Ac 11367
c 3 v 10.04 10.09
d 0 var. 10.06 05 03 08
v 1 e 10.17

Ac 12184? pl. dark. ✓
f 2 v 10.90 10.90
g not seen a

✓ Ac 11908
d 1 v 10.16 10.16
v 1 e 10.17 00 01

Ac 12263 ✓
~~d~~ v 1 d 9.96 10.00
c 3 v 10.04 04 04

✓ Ac 11983
c 2 v 9.94 9.95
v 1 d ~~+0.16~~ 9.96 01 01

Ac 12291. ✓
d 2 v 10.26 10.22
v 1 e 10.17 04 05

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Saturday February 17, 1912.

HV 2898 cont.

Ac 12303
d 1 v 10.16 10.38
e not seen .. 22 22
v 1 f 10.60

Ac 12318
d 1 v 10.16 10.34
e : v 10.27 18 01 26
v 1 ef 10.60

Ac 12339
plate flubbed b 3 v 9.65 9.64
v 1 e 9.64 01 00

Ac 12348
c 1 v 9.84 9.85
v 2 d 9.86 01 01

Ac 12657
c 2 v 9.94 9.95
v 1 d 9.96 01 01

Ac 12682
c 2 v 9.94 9.95
v 1 d 9.96 01 01

February 19, 1912.

Ac 12691.
c 2 v 9.94 9.95
v 1 d 9.96 01 01

Ac 12736
e 1 v 10.37 ~~11~~ 10.44
v 2 f 10.50 07 06

Ac 12745
d 1 v 10.16 10.16
v 1 e 10.17 01 01

Ac 12799
e 1 v 10.37 10.48
v 1 f 10.60 11 12

Ac 12820
d 1 v 10.16 10.34
v o e 10.27 18 01 26
v 1 f 10.60

Ac 12822
e 2 v 10.47 10.54
~~v 1 f~~ f 1 v 10.60 01 06

g N.

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Monday February 19. 1912.

Measures of HV 2898 cont.

	Ac 12826		Ac 10348		✓
	e 1 v	10.37 10.48	d 1 v	10.16	10.16
	v 1 f	10.60 11 12	v 1 e	10.17	00 01
	Ac 10205		Ac 10389	min. elong.	✓
	c 2 v	9.97 9.96	c 2 v	diff. to measure 9.94	9.95
	v 1 d	9.96 01 00	v 1 d	9.96	01 01
	Ac 10213		Ac 10671 (see p. 61)		✓
	c 2 v	9.97 9.96	f 2 v	10.90	10.90
	v 1 d	9.96 01 00	g N.		~~00~~ 01
near edge min. elong.	Ac 10232		Ac 10691.	10.16	10.12 ✓
	b 1 v	9.45 9.54	d 1 v	10.07	04 05
	v 1 e	9.64 09 10	v 2 e		
	Ac 10289		Ac 10719	does not show ft. st.	✓
	c 2 v	9.97 9.~~54~~ 96	N. N.		
	v 1 d	9.96 01 00	c. s. N.		
	Ac 10329		Ac 10749		✓
	d 1 v	10.16 10.16	v N	"	" "
	v 1 e	10.17 00 01	c s N		
	Ac 10417		Ac 10772	scratch under image of var.	✓
	c 2 v	9.94 9.95	d 1 v	~~1b~~	10.16 10.12
	v 1 d	9.96 01 01	v 2 e		10.07 04 05

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Monday February 19. 1912.

Measures of HV2898 cont.

✓	Ac10779			Ac11026		✓
	d1v	10.16	10.16	e1v	10.37	10.48
	v1e	10.17	00 01	v1f	10.60	11 12
✓	Ac10786			Ac11091		✓
	d1v	10.16	10.16	c1v	9.84	9.85
	v1e	10.17	00 01	v2d	9.86	01 01
✓	Ac10789			Ac11127		✓
	d2v	~~10.07~~ 10.26	10.22	c1v	9.84	9.85
	v1e	10.17	04 05	v2d	9.86	01 01
✓	Ac10882			Ac11161		✓
	v<f	<10.70		too elong. to measure		
	gn					
				Ac11184		✓
✓	Ac10897			c2v	9.94	9.95
	f1v	10.80	10,80	v1d	9.96	01 01
	gn		a			
				Ac11236		✓
✓	Ac10934			d1v	10.16	10.12
f br. but image of var. large.	f1v	10.80	10.80	v2e	10.07	04 05
	gn		a			
				Ac11287		✓
✓	Ac10958			e1v	10.37	10.48
	f>var.		<10.70	v1f	10.60	11 12
min. too elong. to measure.						

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Monday February 19. 1912

Measures of HV 2898 cont.

	Ac 11303			Ac 8953		
	c 1 r	10.37	10.48	d 1 r	10.16	10.16
	r 1 f	10.60	11 12	r 1 e	10.17	00 01
	Ac 11318			Ac 8992		
	c 1 r	10.37	10.44	d 1 r	10.16	10.16
	r 2 f	10.50	07 06	r 1 e	10.17	00 01
* min. not good	Ac 8817			Ac 8993		
	c 1 r	9.84	9.85	d 1 r	10.16	10.12
	r 2 d	9.86	01 01	r 2 e	10.07	04 05
	Ac 8872			Ac 9148		
	c 2 r	9.94	9.95	e 1 r	10.17	10.34
	r 1 d	9.96	01 01	r 2 f	10.50	17 16
min. not good. large	Ac 8881			Ac 9160.		
	c 1 r	9.84	9.90	d 1 r	10.16	10.16
	r 1 d	9.96	06 06	r 1 e	10.17	00 01
	Ac 8912			Ac 9190		
" "	c 1 r	9.84	9.90	Imm. diff. to measure.		
	r 1 d	9.96	06 06	doubled?		
	Ac 8942			Ac 9326.		
	d 1 r	10.16	10.16	d 1 r	10.16	10.16
	r 1 e	10.17	00 01	r 1 e	10.17	00 01

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Monday February 19, 1912.

Measures of HV 2898 cont.

✓	Ac 9333			Ac 9880.		✓
	d 1 r	10.16	10.31	c 1 r	9.84	9.90 06 06
	r 0 e	10.27	15 04	r 1 d	9.96	
	r 2 f	10.50	19			
				Ac 9926		✓
✓	Ac 9711			bad.		
	f 2 r	10.90	10.90			
	g n?		a	Ac 9950.		✓
				c 1 r	9.84	9.85 01 01
✓	Ac 9716			r 2 d	9.86	
	f 1 r	10.80	10.81	d		
	r 2 g	10.82	01 01	Ac 10015		✓
				d 1 r	10.16 ~~9.96~~	10.16 00 01
✓	Ac 9722			r 1 e	10.17	
ftn.	r < f.		< 10.10			
	g n.			Ac 10090		✓
				d 2 r	10.16 ~~9.86~~	10.34 08 01 16
	Ac 9723.			r 0 e	10.27	
✓	e 2 r	10.47	10.48	r 2 f	10.50	
	r 1 f	10.50	01 02			
				Ac 10219		✓
	Ac 9863			f 1 r	10.80	10.80 a
✓	c 1 r	9.84	9.80	g n? r 1 g?		
	r 3 d	9.76	04 04			
				Ac 10165		✓
	Ac 9868			f 2 r	10.90	10.91
✓	c 1 r	9.84	9.85	g n 1 g	10.92	01 01
	r 2 d	9.86	01 01			

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Monday February 19, 1912.

Measures of HV 2898 cont.

J	Ac 10174.			Ac 7959			✓
	e 2 r	10.47	10.54	e 1 r	10.37	10.48	11 12
	r 1 f	10.60	01 06	r 1 f	10.60		
J	Ac 7900			Ac 8002			✓
	v n			e 1 r	10.37	10.48	11 12
				r 1 f	10.60		
J	Ac 7926						
	v n.			Ac 8088	~~9.84~~		✓
				e 1 r	9.84	9.85	01 01
J	Ac 7940.			r 2 d	9.86		
	f 2 r	10.90	10.91				
	r 1 g	10.92	01 01	Ac 8089			✓
				e 1 r	9.84	9.85	01 01
J	Ac 7941			r 2 d	9.86		
	f 1 r	10.80	10.86				
	r 1 g	10.92	06 06	Ac 8137			✓
				d 1 r	10.16 ~~9.96~~	10.16	00 01
J	Ac 7946			r 1 f	10.17		
	f 1 r	10.80	10.80				
	g n.		≈	Ac 8183			J
				d 1 r	10.16	10.12	04 05
J	Ac 7958			r 2 e	10.07		
	e 2 r	10.47	10.54				
	r 1 f	10.60	01 06	Ac 8238.			✓
				~~e 1 r~~ d 2 r	10.26	10.22	04 05
				r 1 e	10.17		
				Inv. doubled.			

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9.00

Tuesday February 20. 1912.

Measures of HV 8298 cont.

	Ac 8252			Ac 7075		
✓	d f | r	10.16	10.12	d e | r	10.16	10.12
	r 2 e	10.07	04 05	r 2 e	10.07	04 05
✓	Ac 8289			Ac 7077	✓	
	e | r	10.37	10.44	~~r 2 f~~ d | r	10.16	10.12
	r 2 f	10.50	07 06	r 2 e	10.07	04 05
	Ac 8298			Ac 7117	✓	
✓	e | r	10.37	10.48	e 2 r	10.47	10.54
	r | f	10.60	11 12	r | f	10.60	01 06
	Ac 8336			Ac 7179.	✓	
✓	e 2 r	10.47	10.54	f | r	10.80	10.81
	r | f	10.60	01 06	r 2 g	10.82	01 01
	Ac 8387			Ac 7181	✓	
✓	d | r	10.16	10.12	f | r	10.80	10.86
	r 2 e	10.07	04 05	r | g	10.92	06 06
	Ac 8695			Ac 7189.	✓	
✓	d | r	10.16	10.12	f | r	10.80	10.80 a
	r 2 e	10.07	04 05	g n.		
	Ac 8800			Ac 7206.	✓	
✓	c | r	9.84	9.85	d | r	10.16	10.16
	r 2 d	9.86	01 01	r | e	10.17	00 01

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Tuesday February 20, 1912.

Measures of HV 2898 cont.

	Ac 7212			Ac 7364.		
	d 1 v	10.16	10.12	c 1 v	9.84	9.80 ✓
	v 2 e	10.07	04 05	v 3 d.	9.76	04 04
Sm. of var large. but ft.	Ac 7222			Ac 7434.		
	f 1 v	10.80	10.81	c 1 v	9.84	9.85
	v 2 g	10.82	01 01	v 2 d	9.86	01 01
Sm. elong.	Ac 7237.			Ac 7458		✓
	d 2 v	10.36	10.22	poor plate		
	v 1 e	10.17	04 05	v hardly seen.		
	Ac 7269			Ac 7487		✓
✓	d 1 v	10.16	10.22	poor plate.		
	v 2 e	10.07	04 05			
				Ac 7505		✓
✓	Ac 7288.			poor plate		
	d 1 v	10.16	10.16	v. very ft.		
	v 1 e	10.17	00 01			
				Ac 7531		✓
almost too elong. to measure.	Ac 7322			poor plate		
	c 1 v	9.84	9.85			
	v 2 d	9.86	01 01	Ac 7698		
				poor plate		
✓	Ac 7350					
	c 2 v	9.94	9.95	Ac 7747		
	v 1 d	9.96	01 01	poor plate.		

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Tuesday February 20. 1912.

Measures of HV 2898 Contr.

Ac 7792.	✓		Ac 6778.	✓	
v too ft.			d x² v	10.36	10.16
plate n.g.			v 2 f²	10.07	10 09
Ac 7860.	✓		Ac 6786.	✓	
poor plate			e i v.	10.37	10.44
			v 2 f.	10.50	01 06
Ac 7899.	✓				
1' ins at +60° elong.			Ac 6790.	✓	
			e i v	10.37	10.44
Ac 6754.	✓		v 2 f	10.50	01 06
e i v	10.37	10.44			
v 2 f	10.50	01 06	Ac 6793.	✓	
			e i v	10.37	10.48
Ac 6756.	✓		v 1 f	10.60	11 12
d 2 v	10.26	10.22			
v i e	10.17	04 05	Ac 6799.	✓	
			d i v	10.16	10.16
Ac 6761.	✓		v i e	10.17	00 01
v. ften f.		\10.70			
			Ac 6801.	✓	
Ac 6769.	✓		e i v	10.37	10.48
e i v	10.37	10.48	v 1 f	10.60	11 12
v 1 f	10.60	11 12			
			Ac 6809	✓	
Ac 6774	✓		d i v	10.16	10.16
d i v	10.16	10.16	v i e	10.17	00 01
v i e	10.17	00 01			

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Tuesday Feb. 20, 1912.

Measures of HV 2898 cont.

J	Ac 6844.			Ac 6982		J
	e 1 v	10.37	10.48	b 1 v	9.64	9.55
	v 1 f	10,60	11 12	v 3 c	9.96	09 09
J	Ac 6900			Ac 7047		J
	poor plate.			Var N		
				does not show ft. stars.		
J	Ac 6916.					
	c 2 v	9.94	9.95	Ac 7069		J
	v 1 d	9.96	01 01	~~b 2 v~~ c 1 v	9.84	9.85
J				v 2 d	9.86	01 01
	Ac 6918					
	c 2 v	9.94	9.95	Ac 6721		J
	v 1 d	9.96	01 01	d 2 v	10.26	10.22
				v 1 e	10.17	04 05
J	Ac 6948					
	c 1 v	9.94	9.95	Ac 6732.		J
	v 2 d	9.96	01 01	d 1 v	10.16	10.12
				v 2 e	10.07	04 05
J	Ac 6956.					
	b 2 v	9.55	9.60	Ac 6741		J
	c 1 v	9.64	05 04	d 1 v	10.16	10.16
				v 1 e	10.17	00 01
J	Ac 6974					
	b 2 v	9.55	9.60	Ac 6746		J
	c 1 v	9.64	05 04	e 1 v	10.37	10.44
				v 2 f.	10.50	07 06
					10.45	

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Wed. February 21, 1912

Measures of HV 2898 cont.

Ac 5945	✓		Ac 6082	✓	
c 1 r	9.84	9.80	poor pl. V n.		
r 3 d	9.76	04 04			
			Ac 6113	✓	
Ac 5958	✓		d 1 r	10.16 ~~10.36~~	10.06
c 1 r	9.84	9.80	r 3 e	9.97	10 09
r 3 d	9.76	04 04			
			Ac 6132	✓	
Ac 6003	✓		c 2 r	9.94	9.95
c 1 r	9.84	9.85	r 1 d	9.96	01 01
r 2 d	9.86	01 01	~~d~~		
			Ac 6192	✓	
Ac 6014	✓		d 2 r	10.26 ~~9.86~~	10.212
poor pl.			r 1 e	10.17	04 05
Ac 6047	✓		Ac 6235	✓	
c 1 r	9.84	9.85	d 2 r	10.26 diff. to measure	
r 2 d	9.86	01 01	r 1 e	10.17	10.22 04 05
Ac 6066	✓		Ac 6302	✓	
c 1 r	9.84	9.85	too poor to measure		
r 2 d	9.86	01 01	e n		
Ac 6076	✓		Ac 6316	✓	
c 2 r	9.94	9.95	r n poor		
r 1 d	9.96	01 01			
			Ac 6503	✓	
			r n poor		

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Wed. February 21. 1912

Measures of HV 2896 cont.

↓	Ac 6541		Ac 6676		↓
	poor plate		too near edge.		
↓					
↘	Ac 6588		Ac 6678.		↓
	v n		d 1 v	10.16	10.12
	f faint c.s.		v 2 e	10.07	04 05
↓	Ac 6593.		Ac 6684		↓
	v ft.		poor pl.		
			~~e~~		
↓	Ac 6619.		Ac 6686		↓
	v n		c 2 v	9.94	9.95 01 01
	poor plate.		v 1 d	9.96	
↓	Ac 6630.		Ac 6688	min. elong.	↓
	d 2 v	10.26 10.22	d 1 v	10.16	10.16 00 01
	v 1 e	10.14 04 05	v 1 e	10.17	
min. elong. ↓	Ac 6638		Ac 6703		↓
	e 1 v	10.34 10.38	v n		
	v 3 f	10.40 01 02			
			Ac 6711		↓
d + e close together. ↓	Ac 6654		d 1 v	10.16	10.33 17 17
	d 1 v	10.16 10.16	v 2 f	10.50	
	e 1 v	10.17 00 01			
			Ac 6718		↓
			d 2 v	10.26 9.86	10.22 04 05
			v 1 e	10.17	

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Wednesday February 21, 1912 -

Measures of HV 2898 cont.

J	Ac 5354			Ac 5513.			J	
	c 3 v	10.04	10.00	d 1 v	10.16	9.96	10.16	00 01
	v 1 d	9.96	04 04	v 1 e		10.17		
J	Ac 5355			Ac 5548			J	
	c 3 v	10.04	10.00	d 2 v		10.26	10.22	04 05
	v 1 d	9.96	04 04	v 1 e		10.17		
J	Ac 5369			Ac 5580.			J	
	c 1 v	9.84	9.85	v N.				
	v 2 d	9.86	01 01	e too ft.				
	Ac 5378			Ac 5606			J	
J	c 2 v	9.94	9.95	d 2 v		10.26	10.22	04 05
	v 1 d	9.96	01 01	v 1 e		10.17		
J	Ac 5402			Ac 5632.			J	
	d 1 & v	10.16	10.12	d 2 v		10.26	10.16	10 09
	~~v 2 e~~ ~~e 2 v~~	10.07	04 05	v 2 e		10.07		
	Ac 5414			Ac 5683.			J	
J	c 2 v	9.94	9.95	~~d + e~~ e 1 v		10.37	10.44	07 06
	v 1 d	9.96	01 01	~~e + f~~ v 2 f		10.50		
	Ac 5480			Ac 5685.			J	
J	c 2 v	9.94	9.95	e 1 v		10.37	10.44	07 06
	v 1 d	9.96	01 01	v 2 f		10.50		

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11:50

Thursday February 22, 1912

Measures of HV 2898 cont.

↓	Ac 5710			Ac 5863. ↓			
	e 1 v	10.37	10.44	c 2 v	9.94	9.95	01 01
	v 2 f	10.50	01 06	v 1 d	9.96		
↓							
	Ac 5714			Ac 5909 ↓			
	e 2 v	10.$\overset{4}{2}$7	10.44	c 1 v	9.84	985	01 01
	v 3 f	10.40	03 04	v 2 d	9.86		
↓	Ac 5723			Ac 5915 ↓			
	d 2 v	10.26	10.22	c 1 v	9.84	9.80	04 04
	v 1 e	10.17	04 05	v 3 d	9.76		
↓							
near edge	Ac 5746.			Ac 5917 ↓			
mi. elong.	e 2 v	10.47	10.44	e $\overset{2}{+}$ v	9.94	9.95	01 01
	v 3 f	10.40	03 04	v 1 d	9.96		
↓	Ac 5763			Ac 6219 ↓			
	e 2 v	10.47	10.47	~~c 2 v~~ d 1 v	10.16	10.16	00 01
	f n		a	~~v 1 d~~ v 1 e	10.17		
↓	Ac 5822			Ac 6664 ↓			
	c 3 v	10.04	9.95	v n (faint)			
	v 2 d	9.86	09 09				
				Ac 4707 ↓			
↓	Ac 5841			e 1 v	10.$\overset{3}{7}$7	10.$\overset{4}{3}$4	01 06
	c 2 v	9.94	9.95	v 2 f	10.50		
	v 1 d	9.96	01 01				

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Thursday Feb. 22, 1912

Measures of H V 2898 cont.

	Ac 4771		✓	Ac 5196		✓
e ft. on this fil.	d 1 v	10,16	10.12	c 1 v	9.84	9.85 01 01
	v 2 e	10.07	04 05	v 2 d	9.86	
	Ac 4840		✓	Ac 5198		✓
	c 1 v	9.84	9.85	v n		
	v 2 d	9.86	01 01	poor plate.		
	Ac 4872		✓	Ac 5219		✓
	c 1 v	9.84	9.90	c 2 v	9.94	9.95 01 01
	v 1 d	9.86	~~04 04~~ 06 06	v 1 d	9.96	
	Ac 5122			Ac 5271		✓
	v n		✓	d 1 v	10.16 9.96	10.12 04 05
	d first c.s. seen.			v 2 e	10.07	
	Ac 5176		✓	Ac 5287		✓
	d 1 v	10,16	10.16	d 1 v	10.16	10.12 04 05
	v 1 e	10.17	~~00~~ 01	v 2 e	10.07	
Friday Feb. 23-1912			✓	Ac 5300		✓
	Ac 4687			d 1 v	10.16	10.16 00 01
	v n			v 1 e	10.17	
	Ac 5177		✓	Ac 5314		✓
	d 1 v	10,16	10.12	d 1 v	10.16	10.16 00 01
	v 2 e	10.07	04 05	v 1 e	10.17	

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Friday February 23, 1912 -

Measures of HV 2898 cont.

	Ac 4426	✓		Ac 4588	✓
	c 1 v	9.84	9.85	v n.	
	v 2 d	9.86	01 01	e 1 n	
	Ac 4428	✓		Ac 4613	✓
	c 1 v	9.84	9.85	t. p.	
	v 2 d	986	01 01		
				Ac 4619	✓
Im. elong.	Ac 4458	✓		e 1 v	10.37 10.48
	c 1 v	9.84	9.90	v 1 f.	10.60 11 12
	v 1 d	9.96	06 06		
				Ac 3944	✓
" " !	Ac 4484	✓		v n	
	c 1 v	9.84	9.90	poor plate.	
	v 1 d	9.96	06 06		
				Ac 3945	✓
	Ac 4498	✓ 990		d 2 v	10.26 9.96 10.22
	c 1 v	9.84	06 06	v 1 e	10.17 04 05
	v 1 d	9.96			
				Ac 4024	✓
	Ac 4553	✓		f 1 v	10.80 10.81
	d 1 v	10.16 9.96	10.16	v 2 g	10.82 01 01
	v 1 e	10.17	00 01		
				Ac 4063	✓
	Ac 4555	✓		f 1 v	10.80 10.86
	e 2 v	9.94	995	v 1 g	10.92 06 06
	v 1 d	9.96	01 01		

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Friday February 23-1912.

Measures of HV 7898 cont.

✓	Ac 4086			Ac 4417			✓
	v η			c 1 v	9.84	9.85	01 01
	t. p.			v 2 d	9.86		
✓	Ac 4093			Ac 3910			✓
	e 2 v	10.47	10.54	v η.			
	v 1 f	10.60	01 06				
				Ac 3913			✓
✓	Ac 4099			v n			
	v η			plate poor.			
	Ac 4148			Ac 3914			✓
✓	e 1 v	10.37	10.44	v n			
	v 2 f	10.50	01 06	t. p.			
✓ Sm. along	Ac 4160			Ac 3917			✓
	e 1 v	10.37	10.48	d 1 v	10.16 9.96	10.16	00 01
	v 1 f	10.60	11 12	v 1 e	10.17		
✓	Ac 4219			Ac 3919			✓
	c 1 v	9.84	9.85	d 1 v	10.16	10.16	00 01
	v 2 d	9.86	01 01	v 1 e	10.17		
	Ac 4395			Ac 3924			✓
✓	b 2 v	9.55	9.60	d 1 v	10.16	10.12	04 05
	v 1 e	9.64	05 04	v 2 e	10.07		

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Friday February 23, 1912.

Measures of HV 2898 cont.

✓	Ac 3926			Ac 3881		✓
	v n			d 1 v	10.16 im. of v large but	
				v 1 e	10.17 not bl.	10.16 00 01
✓	Ac 3932.					
	e 1 v	10.37	10.48	Ac 3882		
	v 1 f	10.60	11 12	c 3 v	10.04	✓
				v 1 d	9.96 e very ft.	10.00 04 04
✓	Ac 3933					
	d 1 v	10.16	10.16	Ac 3888		✓
	v 1 e	10.17	00 01	d 1 v	10.16	10.16 00 01
				v 1 e	10.17	
✓	Ac 3937					
	d 1 v	10.16	10.16	Ac 3897		✓
	v 1 e	10.17	00 01	v n		
				poor plate		
✓	Ac 3939					
	e 1 v	10.37	10.48	Ac 3896.		✓
	v 1 f	10.60	11 12	v n		
				t. fr.		
✓	Ac 3959					
	d 2 v	10.26	10.22	Ac 3903		✓
	v 1 e	10.17	04 05	d 1 v	10.16	10.16
				v 1 e	10.17	00 01
	Ac 3876					
✓	v 1 e	10.37	10.37	Ac 3904		✓
	defect on d		a	c 2 v	9.94	9.95
	making it bright			v 1 d	9.96	01 01

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Saturday February 24. 1912

Measures of AV 2898 cont.

J	Ac 3385			Ac 3849		J
	c 2 r	9.94	9.95	c 2 r	9.94	9.95
	r 1 d	9.96	01 01	r 1 d	9.96	01 01
J	Ac 3413			Ac 3151		J
	c 1 r	9.84	9.85	e 2 n		
	r 2 d	9.86	01 01			
				Ac 3163		J
	Ac 3746			e 1 r	10.37	10.37
J	d 1 r	10.16	10.16	# f. n. s.		a
	r 1 e	10.17	00 01			
				Ac 3184		J
	Ac 3747			e 1 r	10.37	10.48
J	c 2 r	9.94	9.95	r 1 f	10.60	11 12
	r 1 d	9.96	01 01			
				Ac 3193		J
	Ac 3751			e 1 r	10.37	10.63
J	c 1 r	9.84	9.85	r 0 f	10.70	26 07 19
	r 2 d	9.86	01 01	r 2 g	10.82	
	Ac 3773			Ac 3243		J
J	c 1 r	9.84	9.85	f 1 r	10.60	10.76
	r 2 d	9.86	01 01	r 1 g	10.92	16 16
J	Ac 3790			Ac 3251		J
	c 1 r	9.84	9.85	f 1 r	10.60	10.71
	r 2 d	9.86	01 01	r 2 g	10.82	11 11

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Saturday Feb. 24, 1912.

Measures of HV 2898 cont.

	Ac 3256			Ac 3095 ↓			
↓	e 1 r	10.37	10.44	d 1 r	10.16	10.16	00 01
	r 2 f	10.50	01 06	r 1 e	10.17		
almost too elong. to measure	Ac 2384			Ac 3112 ↓			
	d 1 r	10.16	10.16	d 1 r	10.16	10.31	15 04 19
	r 1 e	10.17	00 01	r 0 e	10.27		
				r 2 f	10.50		
↓	Ac 2499						
	d 1 r	10.16	10.16	Ac 1799 ↓			
	r 1 e	10.17	00 01	b 2 r	9.55	9.60	05 04
				r 1 e	9.64		
↓	Ac 2781						
	e 1 r	10.37	10.60	Ac 1818 ↓			
	r 0 f	10.70	23 10 12	b 2 r	9.55	9.60	05 04
	r 3 2 g	10.72		r 1 e	9.64		
↓	Ac 2850			Ac 1877 ↓			
min. elong.	d 1 r	10.16	10.12	e 1 r	9.84	9.85	01 01
	r 2 e	10.07	04 05	r 2 d	9.86		
↓	Ac 2899			Ac 1934 ↓			
	b 3 r	9.65	9.64	does not cover region?			
	r 1 e	9.64	01 00				
				Ac 1945 ↓			
↓	Ac 2952			d 1 r	10.16	10.16	00 01
	b 2 r	9.55	9.54	r 1 e.	10.17		
	r 2 e	9.54	01 00				

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Saturday Feb. 24. 1912.

Measures of NV 2898 cont.

J	Ac 2094			Ac 559		J		
	c 3 r	10.04	10.00	c 2 r	9.94	9.95	01	01
	r 1 d	9.96	04 04	r 1 d	9.96			
	Ac 2163			Ac 560		J		
J	d 1 r	10.16	10.31	t. poor.				
	r 0 e	10.27	15 04					
	r 2 f	10.50	19	Ac 639		J		
				c 2 r	9.94	9.95	01	01
J	Ac 2200			r 1 d	9.96			
	c 2 r	9.94	9.95					
	r 1 d	9.96	01 01	Ac 1332		J		
				f 1 r	10.80	10.81	01	01
	Ac 2221.			r 2 g	10.82			
J	d 1 r	10.16	10.28					
	e two ft.	..	12 12	Ac 1345 triple		J		
	r 3 f	10.40		f 1 r	10.80	10.81	01	01
				r 2 g	10.82			
	Ac 2273.							
J	b 2 r	9.55	9.60	Ac 1691.				
	r 1 e	9.64	05 04	~~r 3~~		J		
				c 3 r	poor plate.	10.04	10.00	
J	Ac 2334			r 1 d		9.96	04	04
im. elong.		9.45						
	b 1 r	9.84	9.50					
	r 2 c	9.54	05 04	Ac 1697		J		
				c 2 r		9.94	9.95	01 01
				r 1 d		9.96		

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Saturday February 24. 1912.

Measures of HV 2898 cont.

↓	Ac 1756			Ac 1131		↓
	c 1 v	9.84	9.80	c 2 v	9.94	9.95 01 01
	v 3 d	9.76	04 04	v 1 d	9.96	
↓	Ac 1161			Ac 662		↓
In extreme range -	d 1 v	~~9.96~~ 10.16	10.16	f 1 v	10.80	10.86 06 06
im. elong.	v 1 e	10.17	00 01	v 1 g	10.92	
	Ac 1171			Ac 752		↓
↓	d 1 v	10.16	10.12	b 2 v	9.55	9.60
	v 2 e	10.07	04 05	v 1 c	9.64	05 04
↓	Ac 1200			Ac 935		↓
plate poor	v n			c 1 v	9.84	9.80 04 04
	ft stars n.s.			v 3 d	9.76	
↓	Ac 1252			Ac 264		↓
	f d 1 v	10.16	10.31	f 1 v	10.80	10.86
	v 0 d	10.27	15 04	v 1 g	10.92	06 06
	v 2 f	10.50	19			
↓	Ac 1058			Ac 437		
im. doubled.				poor plate v n		↓
	c 2 v	9.94	9.90			
	v 2 d	9.86	04 04	Ac 514		↓ 9.95
				c 2 v	9.94	01 01
↓	Ac 1084			v 1 d	9.96	
	b 1 v	9.45	9.54			
	v 1 c	9.64	09 10			

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Tuesday Feb. 27, 1912

Measures of HV 2898

Meas. on	I 12536 10.5	Ac 12820 10.5 ✓
✓	Ac 12339 9.9	Ac 12822 pb. very dark. 10.8 ✓
✓	Ac 12348 9.8	Ac 12826 10.9 ✓
V large ✓	Ac 12657 10.0	Ac 12146 Seq marked on this pl. 10.5
✓	Ac 12682 10.0	Ac 12040 10.2 ✓
✓	Ac 12691 10.2	Ac 12082 10.5+ ✓
✓	Ac 12736 10.2	Ac 12124 10.9 ✓
✓	Ac 12745 10.2	Ac 12263 10.0 ✓
✓	Ac 12799 10.4	Ac 12291 10.2

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Tuesday Feb. 27, 1912.

Measures of HV 3898 cont.

ft.	J	Ac 12303 10.6	Ac 12012 9.9	✓
	J	Ac 12318 10.5	Ac 11091 ~~9.5~~ 10.0	✓
	J	Ac 11348 10.5	Ac 11127 9.7	✓
	J	Ac 11367 10.2	Ac 11161 pl. trailed? ser. im. 9.9 ?	
	J	Ac 11865 v n comp. ft stars n.s.	Ac 11184 9.9	✓
	J	Ac 11873 v n poor plate.	Ac 11236 10.0	✓
	J	Ac 11908 10.2	Ac 11287 10.4	✓
im. doubled.	J	Ac 11983 10.2	Ac 11303 10.5	✓
			Ac 11086 10.2	✓

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Wednesday Feb. 28. 1912.

Measures of HV 2898 cont.

	Ac 10719		Ac 10958	vis elong.
	v n		10.7	
	Ac 10749		Ac 10232	
	v n		9.5	
	a only c.s. seen			
			Ac 10289	
	Ac 10772		9.8	
	10.2			
		5'	Ac 10329	
	Ac 10779		9.9	
	10.2			
			Ac 10348	
	Ac 10786		10.2	
	10.2			
			Ac 10389	
	Ac 10789		10.0	
	10.2			
			Ac 10417	
v ft.	Ac 10882		9.9	
	10.8			
			Ac 10671	
	Ac 10897		10.2 v ey ft	
	10.7			
			Ac 10691	
	Ac 10904		9 10.0	
	10.5			

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Wednesday Feb. 28. 1912.

Measures of HV 2898 cont.

J	Ac10119 10.8	Ac10090 10.2	✓
J min. doubled:	Ac10174 10.9.	Ac9716 10.6	✓
J	Ac10165 11.0	Ac9722 about 10.9 very ft	✓
J	Ac10174 10.9	Ac9723 10.5	✓
J	Ac10205 9.9	Ac9863 9.6	✓
J	Ac10213 ~~9.9~~ 10.0	Ac9868 9.8	✓
J	Ac9926 min. trailed	Ac9880 9.8	✓
J	Ac9950 9.6	Ac9711 10.8	✓
J	Ac10015 9.9	Ac9333 10.2	✓

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Thursday Feb. 29. 1912.

NV 2898 cont.

	a			
✓	Ac 8942 10.2		Ac 9326 10.1	✓
✓	Ac 8953 10.2		Ac 8336 10.8	✓
✓	Ac 8992 10.7	2	Ac 8387 10.2	✓
✓ Images large.	Ac 8993 10.2		Ac 8695 10.2	✓
✓	Ac 9006 too poor		Ac 8800 9.5	✓
✓	Ac 9148 10.5		Ac 8817 9.8	✓
✓	Ac 9160 10.2		Ac 8872 9.9	✓
im. doubled plate dark	Ac 9190 diff. to meas. e looks brighter d		Ac 8881 9.9	✓
✓	r about 10.1		Ac 8912 10.3	✓ d + e close together

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Thursday Feb. 29 - 1912.

NV 8898 cont.

J	Ac8137 10.1	Ac7958 J 10.8
J mi. elong.	Ac8183 9.9	Ac7959 10.5 J
J Im. doub.?	Ac8238 10.2	Ac8002 J 10.8
J	Ac8252 10.2	Ac8088 J 9.8
J	Ac8289 10.6	Ac8089 J 9.9
J	Ac8298 10.7	Ac7505 poor plate. J
J good pl.	Ac7940 10.8	Ac7531 J too poor.
J	Ac7941 10.9	Ac7698 J t. p.
J	Ac7946 10.9	Ac7747 J poor plate.

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Thursday Feb: 29-1912

HV 2898 cont.

J	Ac 7792 poor about 9.9:	Ac 7458 t p. to meas.	J
J	Ac 7860 pl. poor,	Ac 7487 too elong. to meas.	J
J	Ac 7900 v N	Ac 7181 10.8	J
J	Ac 7926 v N	Ac 7189 10.7	J
J	Ac 7288 10.2	Ac 7206 good pl. 10.2	J
J im. elong.	Ac 7322 9.8	Ac 7212 10.2	J
J	Ac 7350 10.0	Ac 7222 10.7	J
J	Ac 7364 9.9	Ac 7237 10.5	J
J	Ac 7434 9.9	Ac 7269 10.0	J

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Fri. March 1, 1912.

NV 7898 cont.

↓ dark plate.	Ac 6982. 9.5	Ac 6916 9.8	↓
↓	Ac 7047 v n	Ac 6918 9.9	↓
↓	Ac 7069 9.9	Ac 6948 9.7	↓
↓	Ac 7075 9.9	Ac 6956 9.5	↓
↓	Ac 7077 10.2	Ac 6974 9.5	↓
↓	Ac 7117 10.8	Ac 6778 e fter than f. v 10.3	↓
↓ mm. elong.	Ac 7179 10.9	Ac 6786 10.7	↓
↓	Ac 6844 10.6	Ac 6790 10.7	↓
↓	Ac 6900 poor plate	Ac 6793 10.6	↓

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Friday March 1, 1912.

HV 2898 cont.

	Ac 6799 10.4	Ac 6718 10.4	
	Ac 6801 10.5	Ac 6721 10.2	
	Ac 6809 10.5	Ac 6732. c.s. e > f. 10.2	
	Ac 6811 10.5	Ac 6741. 10.3	
	Ac 6754 10.5	Ac 6746 10.4	
Dm. of large * shaped	Ac 6756 10.3	Ac 6684 too poor.	
	Ac 6761 defective	Ac 6686 10.0	diff. to meas.
	Ac 6769 10.3	Ac 6688 10.2	
	Ac 6774. 10.2	Ac 6703 plate poor.	

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Friday March 1, 1912.

HV 7898 cont.

✓	Ac 6711. 10.5	Ac 6593 ✓ v n
✓	Ac 6630 10.2	Ac 6619 ✓ too ft.
d + e very close together ✓	Ac 6638 10.5:	Ac 6192 ✓ 10.2
✓	Ac 6654 10.1	Ac 6219 ✓ 10.2
✓ on extreme edge.	Ac 6676 10.2	Ac 6235 ✓ Im. elong. 10.3
✓	Ac 6678 10.2	Ac 6302 ✓ v very ft.
✓	Ac 6503 v n from plate.	Ac 6316 ✓ from plate.
✓	Ac 6541 too faint	Ac 6132 ✓ 9.9
✓	Ac 6588 v n q reen.	Ac 6047. ✓ 9.9

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Friday March 1. 1912

HV 2898 cont.

J	Ac6066 9.7	Ac5723 10.4	J
J	Ac6076 9.8	Ac5746 10.5	J
J	Ac6082 t. p.	Ac5763. e remains br. than d. 10.6	J
J	Ac6113 9.9	Ac5822 10.0	J
J	Ac5945 9.6	Ac5841 10.0	J
J	Ac5958 9.6	Ac5863 10.0	J
J	Ac6003 9.8	Ac5909 9.6	J
J	Ac6014 t p.	Ac5915 9.8	J
J	Ac5914 10.5	Ac5917 9.9	J

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Saturday Mar. 2, 1912.

NV 2898 cont.

Ac 5548 10.4	Ac 5378 9.9
Ac 5580 < 10.3	Ac 5402 10.2
Ac 5606 10.5	Ac 5414 10.0
Ac 5632 10.2	Ac 5480 10.2
Ac 5683 10.4	Ac 5513 10.2
Ac 5685 10.5	Ac 5196 Im. of v large 9.9
Ac 5710 10.5	Ac 5198 v n pec pl.
Ac 5355 10.0	Ac 5219 10.0
Ac 5369 9.9	Ac 5271 im. elong. 10.2

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Saturday, Mar. 2, 1912

HD 2898 cont.

J	Ac 5287 10.2	Ac 5177 10.2	J
J	Ac 5300 10.5	Ac 4498. 9.9	J
J	Ac 5314 10.0	Ac 4553 9.9	J
J	Ac 5341 10.2	Ac 4555 10.0	J
J	Ac 4771 10.2	Ac 4588 v n <10.7	J
J	Ac 4840 9.9	Ac 4619 10.7	J
J	Ac 4872 9.9	Ac 4687 v n <e	J
J	Ac 5122 v n ft. stars m.s.	Ac 4707 10.5	J
J	Ac 5176 10.0	Ac 4279 9.9	J

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Saturday March 2, 1912.

HV 8898 Cont.

	↓	Ac4395 9.9	Ac4086 v n poor pl.?	↓
	↓	Ac4417 9.9	Ac4093 10.5	↓
	↓	Ac4426 9.8	Ac4099 v n d ftest c.s. seem	↓
	↓	Ac4428 9.9	Ac4148 10.4	↓
Inv. elong.	↓	Ac4458 10.0	Ac4160 10.4	↓
	↓	Ac4484 9.9	Ac3932 10.2	↓
	↓	Ac3945 10.4	Ac3933 10.4	↓
	↓	Ac4024 10.5	Ac3937 10.2	↓
	↓	Ac4063 10.5	Ac3939 10.6	↓

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Saturday March 2, 1912

NV 2898 cont.

Ac 3959 10.5	Ac 3888 10.3
Ac 3944 v n	Ac 3897 t.p.
Monday Mar 4-1912	
Ac 3913 too poor	Ac 3896 <10.7
Ac 3914 too p.	Ac 3903 10.2
Ac 3917 10.2	Ac 3904 10.2
Ac 3919 10.5	Ac 3910 v n too poor.
Ac 3924 10.2	Ac 3413 9.8
Ac 3926 t.f. to meas.	Ac 3746 10.2
Ac 3882 10.2	Ac 3747 10.2
> 2. - very ft	

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Monday March 4 - 1912

HD 2898 cont.

J	Ac3751 9.9	Ac3243 10.9	J
J	Ac3773 9.9	Ac3251 10.8	J
J	Ac3790 9.9	Ac3256 10.2	J
J	Ac3849 10.0	Ac3385 9.9	J
J	Ac3876 def.	Ac2781 10.5	J
J	Ac3881 10.2	Ac2850. 10.2 diff.	J
J	Ac3163 v n stars ft.	Ac2899 9.6	J
J	Ac3184 10.8	Ac2952 9.5	J
J	Ac3193 10.6	Ac3095 10.2	J

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1912phae.proj.10550

Monday March 4, 1912.

HV 2898 cont.

J	Ac 3112 10.3	Ac 1756 J 10.2? diff.
J	Ac 3151 n.s. def?	Ac 1799 J 9.6?
J	Ac 2163 10.2	Ac 1818 J 9.6
J	Ac 2200 9.9	Ac 1877 J 9.9
J	Ac 2221 10.0	Ac 1904 J 10.2
J	Ac 2273 9.5	Ac 1945 J 10.2
Inn. double J	Ac 2334 9.5	Ac 2094. J 10.0
Inn. elong. J	Ac 2384 10.2	Ac 1332 J 10.8
J	Ac 2499 10.2	Ac 1345 J 10.5

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Wednesday Mar. 6, 1912.

HV 2898 cont.

J	Ac 1691 two diff.	Ac 560	J
		not to be meas. (Miss Leavitt)	
J	Ac 1697	Ac 639	J
Irr. elong.	9.9	9.9 ~~10.0~~	c very bit
Irr. good. J	Ac 1171 9.9	Ac 662 10.9	J
J	Ac 1200 v n	Ac 752 9.6	J
J	Ac 1252 10.4	Ac 264 10.8	J
larger but not brighter than "c"? J	Ac 935 9.8	Ac 437 v n	J
J	Ac 1058 9.8	Ac 514 9.9	J
Irr, doubled.			
J	Ac 1084 9.5	Ac 559 9.9	J
J	Ac 1131 10.0		

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1912phae.proj.10550

Wednesday March 6, 1912.

77 2898 cont.

J	Ac 12736	Ac 12303	J
Im. v. large.	10.2	0 n.s.	
		v about 10.2.	
J	Ac 12820		
	10.2	Ac 12318	J
		10.5.	
J	Ac 12822		
	10.8	Ac 12339	J
		9.9	
Im. of v large.	Ac 12826		
J	10.5	Ac 12012	J
		9.9	
J	Ac 12348		
	9.9	Ac 12082	J
		10.2	
J	Ac 12657		
	9.9	Ac 12146	J
		10.4	
J	Ac 12682		
	9.9	Ac 12263	J
		10.0	
J	Ac 12691		
	9.9 ?	Ac 11367	J
		10.2	
J	Ac 12291	Ac 11865	J
	10.2	too faint	C.S. not seen.

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Wednesday Mar. 6, 1912.

HV 2898 cont.

J	Ac 11908	10.2	Ac 10882	J
			10.8	
J	Ac 11873	n.s.	Ac 10897	J
poor plate.			10.8	
J	Ac 11983	9.9	Ac 10786.	J
im. doubled.			10.2	
J	Ac 11026	10.2	Ac 10789	J
			10.2	
J	Ac 11091	9.9	Ac 10772	J
			10.2 scratch near N.	
J	Ac 11127	9.9	Ac 10779.	J
			10.3	
J	Ac 11161	not to be meas.?	Ac 10719	J
			N 7	
J	Ac 10934	10.5	Ac 10749	J
			VII	
Im elong. J	Ac 10958	10.7	Ac 10417	J
			9.9	

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Friday March 8, 1912.

HV 8898 cont.

J Ac 11184
9.9

J Ac 11236
10.2

J Ac 11287
10.5

J Ac 11303
10.4

J Ac 11318
10.5

J Ac 12040
10.0

Ac 10232
J 9.6

J Ac 10289
9.8

J Ac 10329
10.2

Ac 10348 J
10.2

Ac 10389 J
10.0

Ac 10671 J
10.3 very large + ft.

Ac 10691 J
10.1 mi. very large.

Ac 11091 See page 44
9.8 This + following plates have already been measured.

Ac 11127
9.7

Ac 11161
not to be meas. (Miss Leavitt)

Ac 10934
10.4

Ac 10958
10.8

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Friday March 8, 1912.

HD 2898 cont.

	Ac 11076 10.2	Ac 10213 10.0	J
	Ac 10789 10.2	Ac 10124 too many images	J
	Ac 10882 <10.7	Ac 10165 10.9	J
	Ac 10897 10.7	Ac 10221 broken	J
Scratch near var.	Ac 10772 10.2	Ac 10090 10.4	J
v. v. large.	Ac 10779 10.2	Ac 10119 10.8	J
	Ac 10786 10.2	Ac 9926 trails	J
J	Ac 10174 10.8	Ac 9950 9.9	J
J	Ac 10205 10.0	Ac 10015 10.0	J

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Friday March 8. 1912—

RV 3898 cont-

J	Ac9863 9.6	Ac9190. Sm. doubled J about 10.2" very diff.
J	Ac9868 9.8	Ac8881 J 9.9
J	Ac9880 9.7	Ac8912 J 10.2 Sm. very large
J	Ac9716 10.8	Ac8942 J 10.2
J	Ac9722 10.6? very ft.	Ac8953 J 10.2
J	Ac9723 10.5	Ac8992 J 10.2
J	Ac9326 10.0	Ac8993 J 10.3 f > ε.
J	Ac9333 10.2	Ac9148 J 10.5
J	Ac9711 10.8	Ac9160 J 10.2

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Saturday March 9. 1912.

HD 8898 cont.

J	Ac 8252 10.2	Ac 7958 10.9	J
J	Ac 8289 10.7	Ac 7959 10.5	J
J	Ac 8298 10.6	Ac 8002 10.5	J
J	Ac 8336 10.8	Ac 8088 9.8 def.?	J
J	Ac 8387 10.2	Ac 8089 9.9	J
J Im. v. large	Ac 8695 10.2	Ac 8137 10.3 Im. very large.	J
J	Ac 8800 9.5	Ac 8183 10.0	J
J	Ac 8817 9.9	Ac 8238 10.2	J
J	Ac 8872 9.8	Ac 7747 * f.	J

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Monday March 11 1912

HV 2898 cont.

J	Ac 7792	Ac 7458 J
vis. poor	about 10.0	v br. C. S. E. not seen
J	Ac 7860	Ac 7487
	v n	9.7? l. m. elong. J
J	Ac 7900	Ac 7505 J
	too ft.	too diff.
J	Ac 7926	Ac 7531 J
	v n	pl. poor
J	Ac 7941	Ac 7698 J
	10.8	pl. poor v n
J	Ac 7940	Ac 7212 J
	10.9	10.2
J	Ac 7946	Ac 7222 J
	10.8	10.5
J	Ac 7364	Ac 7207 J
	9.9	10.5
J	Ac 7434	Ac 7269 J
	9.8	9.9

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Monday March 11, 1912

NV 2898 Cont.

✓	Ac7288 10.2		Ac7179 10.9	✓
✓	Ac7322 9.9		Ac7189 10.7	✓
✓	Ac7350 9.9		Ac7181 10.8	✓
✓	Ac6982 9.4		Ac7206 10.3	✓
✓	Ac7047 vn		Ac6811 10.4	✓
✓	Ac7069 9.9		Ac6844 10.5	✓
✓	Ac7075 10.0		Ac6900 vn	✓
✓	Ac7077 10.2		Ac6916 9.5	✓
✓	Ac7117 10.8		Ac6918 9.9	✓

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1912phaa.proj.10550

Monday March 11, 1912

HV 8898 cont.

J	Ac6948 99	Ac6801 10.6	J
J	Ac6956 9.6	Ac6809 10.2	J
J	Ac6974 9.6	Ac6732 10.2	J
J	Ac6774 10.2	Ac6741 10.2	J
J	Ac6778 10.2	Ac6746 10.3	J
J	Ac6786 10.5	Ac6754 10.5	J
J	Ac6790 10.5	Ac6756 10.3	J
J	Ac6793 10.7	Ac6761 def.?	J
J	Ac6799 10.2	Ac6769 10.5	J

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1912phae.proj.10550

Tuesday March 12, 1912

HV 7898 Cont.

✓	Ac6686 10.1	Ac6676 on extreme edge	✓
✓	Ac6688 10.2	Ac6678 10.2	✓
✓ fil poor.	Ac6703 too diff.	Ac6684 vn	✓
✓	Ac6711 10.5	Ac6302 about 10.3 mis. very ft.	✓
✓	Ac6718 10.2	Ac6316 vn	✓
✓	Ac6721 10.2	Ac6503 vn	✓
✓	Ac6630 10.2	Ac6541 <10.6	✓
✓	Ac6638 10.4	Ac6588 vn <10.7	✓
✓	Ac6654 10.2	Ac6593 <10.7	✓

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1912phae.proj.10550

Tuesday March 12, 1912

HV 7898 cont.

J	Ac 6619 vn	Ac 6047 99	J
J	Ac 6082 vn poor pe.	Ac 6066 9.8	J
J	Ac 6113 10.0	Ac 6076 10.0	J
J	Ac 6132 9.9	Ac 5841 10.0	J
J	Ac 6192 10.2	Ac 5863 10.0	J
J	Ac 6219 10.2	Ac 5909 9.7	J
image larger J	Ac 6235 10.2	Ac 5915 9.9	J
J	Ac 6003 9.9	Ac 5917 9.9	J
J pl poor	Ac 6014 vn	Ac 5945 9.6	J

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1912phae.proj.10550

Wednesday March 13, 1912.

NGC 7898 cont.

J	Ac 5958 9.7	Ac 5402 10.2	J
J	Ac 5683 10.6	Ac 5414 10.1	J
J	Ac 5685 10.2	Ac 5480 10.0	J
J	Ac 5710 10.5	Ac 5513 10.2	J
J	Ac 5714 10.5	Ac 5548 10.2	J
J	Ac 5723 10.5	Ac 5580 v m pl. poor	J
J	Ac 5746 10.8	Ac 5606 10.3	J
J	Ac 5763 10.5	Ac 5632 10.2 e < f	J
J	Ac 5822 9.9	Ac 5287 10.2	J

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Wednesday March 13, 1912.

HV 7898 Cont.

J	Ac 5300	10.3	Ac 5176	J
J	Ac 5314	10.1	Ac 5177	J
J	Ac 5341	10.2	Ac 5196	J
J	Ac 5355	10.0	Ac 5198	J
J	Ac 5369	10.2	Ac 5219	J
J	Ac 5378	10.0	Ac 5271	J
J	Ac 4840	9.9	Ac 4687	J
J	Ac 4872	10.0	Ac 4707	J
J	Ac 5122		Ac 4771	J

10.1 diff.

vn. < 10.7

10.5

10.1

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1912phae.proj.10550

Thursday March 14. 1912.

HV 2898 cont.

✓ Ac 4458 9.9	Ac 4160 ✓ 10.4 vir. elong.
✓ Ac 4484 9.9	Ac 4279 ✓ 9.8
✓ Ac 4498 9.9	Ac 4395 ✓ 9.8
✓ Ac 4553 10.2	Ac 4417 ✓ 9.9
✓ Ac 4555 10.2	Ac 4426 ✓ 9.8
✓ Ac 4588 vn < 10.7	Ac 4428 ✓ 9.9
✓ Ac 4619 10.5	Ac 3939 ✓ 10.4 vir. very large ⁄ ft.
✓ Ac 4099 < n from pl.	Ac 3944 ✓ vn
✓ Ac 4148 10.4	Ac 3945 10.5

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Thursday ~~February~~ March 14, 1912.

RV 2898 cont.

J	Ac 3959	10.4	Ac 3924	J
J	Ac 4024	10.8	Ac 3926	J
			v n t.f.	
J	Ac 4063	10.8	Ac 3932	J
			10.4	
J	Ac 4086		Ac 3933	J
	v n		10.3	
J	Ac 4093	10.7	Ac 3937	J
			10.2	
J	Ac 3913		Ac 3876	J
	v n		too diff.	
fl. poor J	Ac 3914		Ac 3881	J
	v n		10.2	
J	Ac 3917	10.4	Ac 3882	J
			10.2	f > e.
J	Ac 3919	10.3	Ac 3888	J
			10.2	

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Thursday Mar. 14, 1912.

HV 2898 cont.

J	Ac 3896 v n < 10.7	Ac 3751 10.0	J
J	Ac 3897 v n	Ac 3773 9.7	J
J	Ac 3903 10.2	Ac 3790 9.9	J
J	Ac 3904 10.0	Ac 3849 10.0	J
J	Ac 3910 v n	Ac 3151 v n	J
J	Ac 3385 9.9	A 3163 too ft.	J
J	Ac 3413 9.7	Ac 3184 10.7	J
J	Ac 3746 10.2	Ac 3193 10.7	J
J	Ac 3747 10.1	Ac 3243 10.8	J

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Thursday March 14. 1912.

HV 2898 cont.

J	Ac 3251 10.7	Ac 3112 10.5 J
J	Ac 3256 10.5	Ac 1945 10.2 J
J im. elong.	Ac 2384 10.2?	Ac 2094 10.0 J
J	Ac 2499 10.2	Ac 2163 10.2 J
J	Ac 2781 10.5	Ac 2200 10.0 J
J	Ac 2850 too diff.	Ac 2221 10.0 J
J	Ac 2899 9.6	Ac 2273 9.6 J
J	Ac 2952 9.6	Ac 2334 9.9 J
J	Ac 3095 10.2	Ac 1345 not to be meas. J

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Thursday Mar. 14, 1912

HV 8998 cont.

	J	Ac 1691 " n	Ac 1084 9.7	J
	J	Ac 1697 9.9	Ac 1131 10.0	J
	J	Ac 1756 im. too elong.	Ac 1171 10.2	J
poor fld	J	Ac 1799 9.6?	Ac 1200. " n	J
(min S.)	J	Ac 1818 not to be meas.	Ac 1252 not to be meas.	
	J	Ac 1877 9.9	Ac 1332 10.8	trails J
badly scratched	J	Ac 1934 " 10.5	Ac 264 10,8	J
Im elong.	J	Ac 935 96	Ac 437 " n	J
	J	Ac 1058 not to be meas.	Ac 514 10.0	J

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Thursday Mar. 14, 1912.

HV 2898 cont.

✓ Ac 559
9.9

Ac 560

✓ Ac 639
10.1

✓ Ac 662
10.7

✓ Ac 752
9.7

Tuesday March 26 - 1912

Ac 6811

e/r 10.37 | 10.48 11 12
r/f. 10.60

Ac 10671

d/r 10.16 10.16
r/e 10.17 00.01

230 plates measured. 3 times.

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1912phae.proj.10550

Wednesday
~~Monday~~ April 3rd, 1912.

1:45
t

HV 2892

		Thursday Apr. 4. 1912.
Seq. marked on this fr.	Ac 6718	1 Ac 12318
J	9.0	does not cover region.
J	Ac 11865	Ac 12659 J
	vn t.fr.	8.8
J	Ac 11873	Ac 12682 J
	t.fr.	8.8
J	Ac 11908	Ac 12822 J
	9.1	8.9
min. elongated J	Ac 11983	Ac 10719 J
	9.3 ?	8.8? fwor.
J	Ac 12012	Ac 10749 J
	9.1	9.0
J	Ac 12040	Ac 10772 J
	9.1	8,8
J	Ac 12303	Ac 10789 J
	8.2	8.8
J	Ac 6630	Ac 10897 J
	9.1	8.8

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Thursday Apr. 4. 1912.

HV 2892.

Im elong!	Ac 10958 8.7? very difficult	Ac 10713 8.7	✓
✓	Ac 11127 8.8	Ac 10789 8.8	✓
✓	Ac 11287 8.8	Ac 10671 9.0	✓
✓	Ac 11303 8.8	Ac 10691 9.0	✓
✓	Ac 11367 8.8	Ac 9148 9.1	✓
✓	Ac 9950 8.6	Ac 9190 8.9 #	✓
✓	Ac 10090 8.7	Ac 9326 8.8	✓
✓	Ac 10124 per. eyes.	Ac 9716 8.6	✓
✓	Ac 10165 8.8	Ac 9722 8.5	✓

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Saturday April 6, 1912.

H2892.

	Ac 9723 8.5	Ac 8953 8.8
Irr. elongated	Ac 9868 8.8	Ac 8992 8.8
	Ac 9880 8.5	Ac 7698 t.f.
Irr, very much elongated.	Ac 8252 6.7?	Ac 7792 9.1? poor.
	Ac 8695 8.6	Ac 7860 t.f.
	Ac 8800 8.5	Ac 7900 does not cover region?
	Ac 8817 8.5	Ac 7940 9.1
	Ac 8872 8.8	Ac 7958 9.0
	Ac 8942 8.8	Ac 8002 9.0

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Saturday April 6, 1912

H 2892.

✓	Ac 8088 9.1	Ac 7237 ✓ 8.6
	Ac 8089 does not cover region	Ac 7327 ✓ 8.6
Sm. elong. ✓	Ac 8183 8.8	Ac 7364 ✓ 8.8
" " ✓	Ac 8238 too diff.	Ac 7434 ✓ 8.7
✓	Ac 7075 9.0	Ac 7487 ✓ t. f.
✓	Ac 7179 8.5	Ac 6774 ✓ 9.0
Sm. elong. ✓	Ac 7189 8.8	Ac 6790 ✓ 9.0
✓	Ac 7181 8.8	Ac 6799 ✓ 9.1
✓	Ac 7212 8.5	Ac 6809 ✓ 9.0

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Monday April 8, 1912.

H7892. cont.

↓ Ac6900 t.f.	Ac6686 ↓ 9.1? min.elong.
↓ Ac6916 9.0	Ac6703 ↓ t.f.
↓ Ac6948 9.1	Ac6711 ↓ 9.0
↓ Ac6982 8.9	Ac6732 ↓ 9.0
↓ Ac7047 t.f.	Ac6746 ↓ 9.1
↓ Ac7069 8.8	Ac6754 ↓ 9.0
↓ Ac6654 9.1	Ac6761 ↓ 9.1
↓ Ac6676 9.1	Ac6014 ↓ t.f.
↓ Ac6678 9.0	Ac6047 ↓ 8.8

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Monday April 8, 1912.

H 7892

		Wed. Apr. 10. 1912.
J Im. elong.	Ac 6076 8.8	Ac 5723 J 8.8
J	Ac 6132 8.9	Ac 5763 J 8.8
J	Ac 6219 8.8	Ac 5822 J 8.8
J	Ac 6503 tf.	Ac 5863 J 9.0
faint. J	Ac 6541 9.1	Ac 5915 J 8.8
J	Ac 6588 9.0	Ac 5945 J 8.7
J	Ac 6593 9.0	Ac 5122 J 8.8 Images ft.
J	Ac 5606 8.8	Ac 5176 J 8.8
J	Ac 5685 8.8	Ac 5196 J 8.8

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Wednesday, April 10, 1912.

H 7892

			April 11, 1912	
J	Ac 5319 8.8		Ac 4395 8.8	J
J	Ac 5371 8.6		Ac 4426 9.0	J
J	Ac 5300 8.8		Ac 4484 8 8	J images very much elongated.
J	Ac 5314 8.6		Ac 4555 8.5	J
J	Ac 5369 8.4		Ac 4619 8.8	J
J	Ac 5402 8.7		Ac 4687 t.p.	J
J	Ac 5480 8.5		Ac 4024 8.8	J
J	Ac 5548 8.5		Ac 4086 t.p.	J
J	Ac 4160 8.6?	Images poor very elong.	Ac 4093 8.8	J

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1912phae.proj.10550

Friday April 12. 1912

H 289r

			Monday Saturday Apr. 15.	
J	Ac 3896 8.6		Ac 3945 8.8	V
J	Ac 3903 8.6 mi for.		Ac 3959 8.6	J
J	Ac 3910 t. fr.		Ac 3163 8.5	J on extreme edge of Plate.
J	Ac 3913 t. fr.		Ac 3184 8.6	J near edge.
J	Ac 3917 8.4		Ac 3193 8.7	J
J	Ac 3924 8.8		Ac 3243 8.7	J
J	Ac 3932 8.7		Ac 3251 8.7	J
J	Ac 3937 8.6		Ac 3256 8.8	J
Im. faint J	Ac 3944 88?		Ac 3385 8.7	J

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Tuesday April 16, 1912.

H 2892.

J	Ac 3413 t. f.	Ac 2163. 8.8	J
J	Ac 3746 8.2	Ac 2200 Im elong. 88? ↗	J
J	Ac 3747 8.2	Ac 2221 8.6	J
J	Ac 3790 8.2	Ac 2273 8.2	J
J	Ac 3849 8.5	Ac 2334 8.7 ? Images doubled.	J
J	Ac 3881 8.5	Ac 2499 t. f.	J
J	Ac 1887 88	Ac 2781 88	J
J	Ac 1945 8.8	Ac 2850 t. f.	J
J	Ac 2094 8.8	Ac 2899 8.8	J

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1912phae.proj.10550

Tuesday April 16, 1912.

H 2892.

Ac 2952 8.8	Ac 1171 8.8
Ac 3095 8.5	Ac 1200 t.f.
Ac 3112 8.2	Ac 1252 8.8 very near edge.
Ac 3151 8.8 fuzz.	Ac 1345 8.8
Ac 662 8.8	Ac 1691 Im. t. fr. elongated.
Ac 752 8.8 fuzz.	Ac 1697 8.8
Ac 935 9.1	Ac 1756 t. fr.
Ac 1084 8.9	Ac 1799 8.8
Ac 1131 8.8	Ac 264 9.1

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1912phae.proj.10550

Wednesday April 17, 1912

H 2892.

	Remeasured
✓ Ac 437	Ac 10691 ✓
vn t.f.	8.8
✓ Ac 514	Ac 10719. ✓
8.9	8.9 ?
✓ Ac 559	Ac 10749 ✓
8.8	8.9
✓ Ac 639	Ac 10772. ✓
8.2	8.8
Remeasured.	Ac 10789 ✓
	8.8
✓ Ac 12303	
8.5	Ac 10897 ✓
	8.6
✓ Ac 12657	
8.8	Ac 10958 ✓
	too difficult
✓ Ac 12682	
8.8	Ac 11127 ✓
	8.1
✓ Ac 12822.	
9.0	Ac 11287 ✓
	8.8

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1912phae.proj.10550

Wednesday April 17, 1912.

H 2892.

Ac 11303 8.8	Sat. Apr. 20, 1912.
Ac 11361 8.8	Ac 10124 Not to be measured.
Ac 11865 t.f.	Ac 10165 8.5
Ac 11873 t.f.	Ac 10213 8.8
Ac 11908 9.0	Ac 10289 8.8
Ac 11983 9.3	Ac 10671 9.1
Ac 12012 9.1	Ac 9190 8.8
Ac 12040 9.1	Ac 9326 8.8
Ac 10090 8.6	Ac 9716 8.6
	Ac 9722 8.1

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Tuesday April 23, 1912

H 3892

Ac9723 8.5	Ac8872 8.8
Ac9868 8.8	Ac8942 8.5
Ac9880 8.6	Ac8953 8.8
Ac9950 8.3	Ac8992 8.8
Ac10090 8.8	Ac9148 9.0
Ac8952 8.8	Ac1698 t. h.
Ac8695 8.4	Ac1792 9.3
Ac8800 9.5	Ac1860 t. f.
Ac8817 8.4	Ac1900 t. f.

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Tuesday Apr. 23, 1912

H 3892

good pl.	✓	Ac 1940 9.1	Ac 1212 8.7 ✓
	✓	Ac 1958 9.1	Ac 1237 8.5 ✓
	✓	Ac 8002 9.0	Ac 1322 8.8 ✓
" "	✓	Ac 8088 9.1	Ac 1364 8.8? Images poor. ✓
Im elong.	✓	Ac 8183 8.8	Ac 1434 8.8 poor. ✓
" "	! ✓	Ac 8238 trailed too diff to meas.	Ac 1487 t, p. ✓
	✓	Ac 7179 8.6	Ac 6790 9.1 ✓
	✓	Ac 7181 8.8	Ac 6799 9.0 ✓
	✓	Ac 7189 8.8	Ac 6809 9.0 ✓

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Thursday April 25, 1912.

H 7892.

J	Ac6900 t.f.	Ac6684 9.1	J
J	Ac6916 9.0	Ac6676 9.1	J
J	Ac6948 9.0	Ac6678 9.0	J
J	Ac6982 8.9	Ac6686 9.2	J
J	Ac7047 t.f.	Ac6703 t.f.	J
J	Ac7069 8.8	Ac6711 9.0	J
J	Ac7075 9.0	Ac6732 9.0	J
also meas. on p. 75.	Ac8088 9.1	Ac6746 9.0	J
J	Ac6630 9.0	Ac6754 9.0	J

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Thursday April 25, 1912.

H 2892

J	Ac6761 9.1		Ac6558 9.1	J
J	Ac6774 9.0		Ac6593 lm. elong 9.0	J
J	Ac6014 t.f.		Ac5480 8.5	J
J	Ac6047 8.8		Ac5548 8.5	J
J lm. elong.	Ac6076 8.8		Ac5606 9.0 8.8	J
J	Ac6132 8.8		Ac5685 8.8	J
J	Ac6219 8.8 fuzz		Ac5723 8.6	J
lm. elong J	Ac6503 t.f.		Ac5763 8.8	J
	Ac6541 9.1? faint		Ac5822 8.8	J

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1912phae.proj.10550

Thursday April 25, 1912.

H 3892

✓	Ac 5863 9.0	Ac 5314 8.7	✓
✓	Ac 5915 8.6	Ac 5369 8.5	✓
✓	Ac 5945 8.8	Ac 5402 8.8	✓
✓	Ac 5122 8.8	Ac 4086 diff. var. br. but e.s. very ft.	✓
✓	Ac 5176 8.8	Ac 4093 8.8	✓
✓	Ac 5196 8.8	Ac 4160 8.8 mis. trailed.	✓

Saturday Apr. 27.

✓	Ac 5219 8.8	Ac 4395 8.8	✓
✓	Ac 5271 8.8	Ac 4436 9.0	✓
✓	Ac 5300 8.8	Ac 4484 8.8	✓

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Tuesday April 29. 1912

H 2892.

J Ac 4555 8.6	Ac 3924 8.6 J
J Ac 4619 8.8	Ac 3932 8.8 J
J Ac 4687 9.0	Ac 3937 8.8 J
Ac 3888 not cover region	Ac 3944 8.8 faint. J
J Ac 3896 8.8	Ac 3945 8.5 J
J Ac 3903 8.8	Ac 3959 8.3 J
J Ac 3910 t. f.	Ac 4024 8.8. J
J Ac 3913 8.7? ~~poor~~ ft.	Ac 6716 9.0 J
J Ac 3917 8.5	Ac 2850 t. f. J

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Wednesday May 29. 1912.

Hr 8 9 2. cont.

✓	Ac 2899 8.8	Ac 3256 8.8	✓
✓	Ac 2952 8.8	Ac 3385 8.7	✓
✓	Ac 3095 8.2	Ac 3413 8.8	✓
✓	Ac 3112 8.2	Ac 3746. 8.2	✓
✓	Ac 3151 8.5	Ac 3747 8.2	✓
✓	Ac 3184 8.8	Ac 3790. 8.5	✓
✓	ac 3193 ·89	Ac 3849 8.7	✓
✓	Ac 3243 8.8	Ac 3881 8.8	✓
✓	Ac 3251 8.8	Ac 1877 88	✓

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1912phao.proj.10550

Wednesday May 29. 1912.

H289r cont.

✓	Ac 1945 8.7	Ac 264. 9.1	✓
✓	Ac 2094 8.8	Ac 437 too poor.	✓
✓	Ac 2163 8.8	Ac 514 8.9	✓
✓	Ac 2200 8.8	Ac 559 8.8	✓
✓	Ac 2271 8.3	Ac 639 8.2? images seem blurred.	✓
✓	Ac 2073 8.4	Ac 662 8.8	✓
✓	Ac 2334 too diff. to measure. images doubled.	Ac 752 8.7.	✓
✓	Ac 2499 poor plate.	Ac 935 9.0	✓
✓	Ac 2781 8.8	Ac 1084 8.8	✓

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Wednesday, May 29-1912.

H V 2892

✓	Ac 1131 8.8	Ac 1877 8.9	✓
		These plates were found later:	
✓	Ac 1171 8.8	Ac 12124 June 24, 1912. 8.8	
	Ac 1210 too poor.	Ac 12745 8.8	✓
✓	Ac 1252 8.8	Ac 12799 9.0	✓
		Tuesday June 25, 1912	
✓	Ac 1345 8.8	Ac 12745 8.9	✓
		Ac 12124 8.8	✓
✓	Ac 1691 t. p.		✓
		Ac 12799. 9.0	
✓	Ac 1697 8.8		
		184 plates measured.	twice.
mistrailed. ✓	Ac 1756 t. f.		
Im not good. ✓	Ac 1799 ~~29.2~~ wrong star measured. Sequence for this star.	Ac 1799 8.8 marked on I 16629.	✓

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1912phao.proj.10550

J'

Wednesday July 10, 1912

Scale 2. Mean of Seq. for C4. = 7h + 15°

Mc 188

		Sc1	Scale 2	Mean		Differences		Sc1.	scale 2	Mean		Reading from curve.	
Polar Seq.	10	5.0		5.0		+389	11	5.7	5.5	5.60	1 1	424	984
	11	5.2		5.2		422	12	5.6	5.6	5.60	0 0	424	984
	12	5.6	5.3	5.45	2 1	428	13	5.8	5.6	5.70	1 1	426	996
	13	5.8	6.2	6.00	2 2	417	14	6.0	5.9	5.95	0 1	432	10 6.27
	14	6.2	6.2	6.20	0 0	432	15	6.4	6.2	6.30	1 1	439	10.69
	15	6.5	6.5	6.50	0 0	444	16	6.5	6.3	6.40	1 1	441	10.81
	16	6.7	6.7	6.70	0 0	456	17	6.6	6.7	6.65	0 1	445	11.10
	17	6.8	6.8	6.80	0 0	469	18	6.9	7.1	7.00	1 1	450	11.50
	18	7.4	7.4	7.40	0 0	452	19	7.1	7.3	7.20	1 1	452	11 8.72
	19	7.8	7.6	7.70	1 1	458	20	7.3	7.4	7.35	1 0	453	11.88
	~~20~~		8.4	8.4		419	21	7.7	7.8	7.75	1 0	454	2 12.19
	21		8.3	8.3	a	452	22	~~8.2~~	8.2	8.2		454	12.74
	~~22~~						23	~~8.1~~ ft	8.4	8.4		454	12.94
	23		8.6	8.6	a	460	24	~~8.1~~	8.1	8.1		454	12.64
	~~24~~						25		8.3	8.3	a	454	12.84
	25		9.2	9.2	a	453	26		8.4	8.4	a	454	12.94
	26		9.1	9.1	a	449	27		8.8			454	13.34
												453	13.53
Stan. Seq.	1	13				Reading from curve	28		~~9.1~~ 9.0	wrong image measured at first			
	2	13					29		9.2			452	13.72
far from centre	3	3.5											
	4	4.3											
	5	4.6											
	6	4.7											
	7	4.6											
not marked?	8	4.7	t.b.			401	8.71						
	9	5.3	t.b.			416	9.46						
	10	5.6	5.5	5.55	0 1	422	9.77	(Scratches on plate)					

See P. 92 of this Book.

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5'

Saturday July 13, 1912.

Scale U. C 4 = 7" + 15°

Mc847

		Sc 1	Sc 2	Mean		Diff.		Sc 1	Sc 2	Mean		
Polar Seq.	10	4.1	t.b.	4.1	a	+419	12	5.1	5.3	5.50	2 2	423 9.73
	11	5.3	5.1	5.20	1 1	422	13	5.8	5.4	5.60	2 2	423 9.83
	12	5.7	5.4	5.55 W.S.	1 2 meas.	418	14	6.2	5.8	6.00	2 2	429 10.29
	13	6.1	5.7	5.90	2 2	427	15	6.4	6.2	6.30	1 1	437 10.67
	14	6.3	6.3	6.30	0 0	422	16	6.4	6.3	6.35	0 1	438 442 10.73
measured w.s.	15	~~6.6~~ 6.7	6.4	6.50	1 1	444	17	~~6.6~~ 6.4	6.4	6.40	0 0	440 10.80
	16	6.5	6.6	6.55	1 0	471	18	6.6	6.8	6.70	1 1	449 11.19
	17	6.7	6.8	6.75	1 0	474	19	7.2	7.0	7.10	1 1	46 514 11.74
	18	7.1	7.4	7.40	0 0	452	20	7.3	7.1	7.20	1 1	46 518 11.88
	19	7.4	7.5	7.45	0 1	483	21	7.5	7.4	7.45	1 0	47 ~~528~~ 527 12.22
	20	7.7	7.6	7.65	1 0	494	22	7.4	7.5	7.45	0 1	477 527 12.22
	21	7.7	7.9	7.80	1 1	502	23	7.9	7.1	7.80	1 1	489 12.69
	23	8.2	~~8.2~~	8.2	a	~~500~~	24	7.8	7.6	7.70	1 1	486 12.56
	25		8.5	8.5	a	523	25		8.2	8.2		502 13.22
	26		8.8	~~8.8~~	a	539	26		7.8	7.826	is much better than 25.	489 12.69
~~Monday July 22.~~	27	see P. 86.					27		9.2	9.2		524 14.44
Standard Seq.	1			Mean		Reading from curve.	28		9.6	9.6		527 14.87
	2	B.					29		I.			F
too far from centre.	3	B.										
	4	3.5										
	5	4.5										
	6	4.3	B									
	7	4.4	B.									
	8	4.6	B.			4.16						
	9	5.0	B.			4.18						
	10	5.6	5.3	5.45	2 1	422						
	11	5.5	5.2	5.35	1 2	420						

mega.

8.76

9.18

67

9.55

4.55

see p. 86

see p. 92 of this Book.

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Monday July 15, 1912.

Scale 2 C1

MC832

		SC1	SC2	Mean.	Diff.
Polar Seq.	10	4.4	4.4	4.40	00 +449
	11	4.9	5.2	5.05	12 +431
	12	5.2	5.5	5.35	21 +438
	13	5.7	5.8	5.75	10 +442
	14	6.0	6.1	6.05	01 447
	15	6.4	6.4	6.40	00 454
	16	6.7	6.6	6.65	10 491
	17	6.8.	7.0	6.90	11 459
	18	7.2	7.4	7.30	11 462
	19	7.6	7.6	7.60	00 468
	20	7.8	7.6	7.70	11 489
	21	7.8	7.8	7.80	00 502
	23	~~7.4~~	8.4	~~8.4~~ a	480
	25	~~8.6~~	8.6	8.6 a	513
	26		8.6	8.6 a	~~559~~
See P. 86 →	27		1		
Standard Seq.	1	B ~~4.4~~			
	2	3.3			
	3	3.5			
Too far from centre.	4	3.5?			
	5	3.8			
	6	4.4		4.40	8.70
	7	4.4	B.	4.40	8.80
	8	4.7	B.	4.40	9.10
	9	4.8	B	4.40	9.20
star sup. on 10?	10	5.2	B.	4.42	9.62
	11	5.4	5.0	5.20	22 4412 9.62

		SC1		Mean		Reading from curve	
	12	5.4	5.4	5.40	00	443	9.83
	13	5.7	5.4	5.55	12	444	9.99
	14	5.8	5.8	5.80	00	448	10.28
	15	6.6	6.3	6.45	21	461	11.06
	16	6.6	6.4	6.50	11	462	11.12
	17	6.7	6.6	6.65	10	464	11.29
	18	6.9	7.3	7.10	22	474	11.84
	19	7.4	7.4	7.40	00	482	12.22
	20	7.7	~~8.6~~ 7.6	7.65	10	486	12.51
	21	~~7.8~~ 7.8	~~8.2~~ 8.1	8.05	21	496	13.01
	22		8.4			504	13.44
	23		8.3			502	13.32
	24		8.5			507	13.57
	25		8.6			509	13.69
	26		9.1			523	14.33
	27						
	28		9.4			530	14.70
	29		9.5			533	14.83
	30		F.				F

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Monday July 22, 1912

Scale U. $C_4 = 7 + 15°$

mc847

		sc.2	Diff.
Polar Seq.	27	9.2	5.35
	28	9.6	5.17
	29	tf.	

mc832 $C_1 = 1 + 15°$

Polar Seq.	27	9.4	5.15
	28	9.6	5.17
	29	t.	

Wednesday July 24, 1912

$C_4 = 7 + 15°$

mc847

		sc.1	sc.2		Copied from P.84	Mean			Diff.
Polar Seq.	21	7.6	8.1	7.85 ± 3	7.80	7.82	03	02	500
	23		8.3		8.2	8.25	1	0	495
	25		8.6		8.5	8.55	0	1	518
	26		9.0		8.8	8.90	1	1	529
	27		9.3			9.3	a		525
	28		9.6			9.6	a		517
	29		t						

mc832

Polar Seq.	23		8.3		8.4	8.35	1	0	485
	25		8.6		8.6	8.60	0	0	513
	26		8.8		8.6	8.70	1	1	549
	27		9.4			9.40	a		515
	28		9.5			9.50	a		547
	29		n.s.						

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Thursday July 25, 1912

Scale 11. Measures of Seq for B1 = 1h 20m +45° Leopold

MC 1201 F' Plate

		Sc.1	Sc.2	Sc.1	Sc.2 Mean
Polar Seq.	10	4.3		4.6	4.45 1 2
	11	4.6		4.6	4.60 0 0
worse, need	12	5.1	13. 5.3	5.0	5.05 1 0
" "	13	5.3	13 5.6	5.6	5.45 1 2
	14	5.7	5.4		5.55 1 2
	15	5.7	5.7		5.70 0 0
	16	6.4	6.2		6.30 1 1
	17	6.5	6.4		6.45 1 0
	18	6.7	6.7		6.70 0 0
	19	7.2	7.2		7.20 0 0
	20	7.3	7.5		7.45 1 2
	21	7.4	7.7		7.55 2 1
	23	7.7	7.7		7.70 0 0
	25		8.3		8.4 8.35 1 0
	26		8.4		8.6 8.50 1 1
	27		8.7		8.8 8.75 1 0
	28		9.3		9.3 9.30 0 0
very faint.	29		9.6?		9.8? 9.70? 1 1
	30		n.s		
Stan. Seq.	1				
	2				
	3				
	4				
	5	13.		3.2	
	6	3.5		3.4	3.45 1 0 470
	7	3.7		3.7	3.70 0 0
	8	4.2		4.2	4.20 0 0 470

		Sc.1	Sc.2	Sc.1 Sc.2	Sc.1 Sc.2 Mean
	9	3.7	3.9		3.9 3.80 1 1
	10	4.6			4.7 4.65 0 1 4.65 9.40
	11	4.2	4.2		4.2 4.20 0 0 4
	12	4.2 4.7 w.s.	4.2		4.2 4.20 0 0
	13	4.7 5.3	4.7	13.	4.7 4.70 0 0 4.16 9.46
	14	5.2	4.8	13.	5.3 5.25 0 1 4.83 10.08
	15	6.4 5.3	5.2	5.0	5.15 2 1 4.82 9.97
	16	6.4 5.5	5.6	5.5	5.50 0 0 4.86 10.36
	17	6.6 5.6	5.5	5.4	5.50 1 1 4.86 10.36
	18	5.7	5.6	5.4	5.65 1 2 4.90 10.55
	19	5.9	5.7	5.8	5.85 1 0 4.93 10.78
	20	6.3	6.2	6.2	6.25 1 0 5.00 11.25
	21	5.8	5.8	5.6	5.70 1 1 4.91 10.61
	22	6.6	6.4	6.3	6.45 2 1 5.03 11.48
	23	6.4	6.5	6.2	6.30 1 1 5.00 11.30
	24	6.7		6.7	6.70 0 0 5.06 11.76
	25	6.6 7.1	7.4	6.9	7.00 1 1 5.12 12.12
	26	7.4	7.4	7.2	7.30 1 1 5.18 12.48
	27	7.7	6.7	7.7	7.70 0 0 5.27 12.97
	28	7.7	7.8	7.6	7.65 1 0 5.26 12.91
	29		8.3	8.2	8.2 8.25 1 0 5.43 13.68
	30		8.6 9.5	8.6	8.4 8.60 0 0 5.53 14.13
	31		9.3	9.5	9.3 9.40 1 1 5.76 15.16
	32				

F

P. 6. measured on p. 97 of this book.

The above measures which are crossed out were made on Sc.1 by mistake.

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Saturday July 27, 1912

Scale II Measures of sequence for 13 I = 1 20 +45°

Mc 1425.

		sc.1	sc.2	sc.1	Mean.		sc.1	sc.2	sc.1	Mean	Reading from curve.	
Polar Seq	10	4.5		4.5	4.50 0 0	10	5.1	5.2		5.15 1 0	464	9.99
	11	5.1	sc.1 ~~4.8~~	5.1	5.10 0 0	11	4.4		4.3	4.35 ~~1 0~~ 0 1		
	12	5.1	B.	5.2	5.15 1 0	12	4.5	B.	4.5	4.50 0 0		
	13	5.3	5.3		5.30 0 0	13	4.8	—	4.7	4.75 0 1	443	9.18
	14	5.6	5.4		5.50 1 1	14	5.2	B.	5.1	5.15 0 1	464	9.99
meas. 14 here not 15.	15	~~5.6~~ 5.8	6.0		5.90 1 1	15	5.1	5.1		5.10 0 0	462	9.72
	16	6.4	6.2		6.30 1 1	16	5.7	5.6		5.65 1 0	487	10.52
	17	6.5	6.5		6.50 0 0	17	5.6	5.4		5.50 1 1	482	10.32
	18	6.7	6.5		6.60 1 1	18	5.6	5.4		5.50 1 1	482	10.32
	19	6.7	6.6		6.65 1 0	19	5.9	5.7		5.80 1 1	496	10.76
	20	7.2	7.2		7.20 0 0	20	6.2	5.8		6.00 2 2	504	11.04
	21	7.4	7.2		7.30 1 1	21	6.2	5.8		6.00 2 2	504	11.04
	23	7.7	7.6		7.65 1 0	22	6.4	6.2		6.30 1 1	516	11.46
	25	7.8	8.2		8.00 2 2	23	6.5	6.3		6.40 1 1	520	11.60
	26		8.5		8.6 8.55 1 0	24	6.6	6.6		6.60 0 0	526	11.86
	27		8.1		8.7 8.70 0 0	25	6.8	6.8		6.80 0 0	533	12.13
	28		9.4		9.6 9.50 1 1	26	7.1	7.2		7.15 1 0	543	12.58
	29		~~7.~~		F	27	7.4	7.7		7.55 2 1	553	13.08
Star Seq.	1	B.				28	7.8	8.2		8.00 2 2	562	13.62
	2	B.				29		8.6	8.2	8.40 2 2	564	14.04
off plate.	3					30		8.6	8.4	8.50 1 1	565	14.15
	4	3.2		3.5	3.35 2 1	31		9.3	9.3	9.30 0 0	568	14.98
	5	3.6		3.5	3.5 ~~1 1~~ 5 0 1	32		~~9.6~~	9.5	9.55 0 1	568	15.23
	6	3.8		3.8	3.80 0 0	33		n.s.				
	7	4.1		4.2	4.15 1 0							
	8	4.1		4.4	4.25 1 2							
	9	4.4		4.5	4.45 0 1							

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Wednesday July 31, 1912

Scale 2. Measures of Seq. for B2 = 4h +45°. Copied

MC 1231.

MC 1425.
OR I ; 88,

Reading from curve not checked, although magn. is checked.

Can't find curve

	Hgt.	Sc.1	Sc.2												
Polar Seq	489	10	4.0												3.65 01 4.84 8.49 ev.
	472	11	4.7												3.70 00 4.84 8.54 ev.
this is 15	493	12	~~5.4~~ 4.8											9	3.90 00 4.86 8.76
	487	13	5.4	5.										5	4.40 1 1 4.89 9.29
	512	14	5.5	5										1.6	4.60 00 4.90 9.50
	524	15	5.1	5										7	4.55 2 1 4.90 9.45
	516	16	6.3	6										6	4.55 1 0 4.91 9.46
	529	17	6.2	6.										1.8	4.70 1 1 4.93 9.61
	512	18	7.1	6.6										18	4.80 00 4.93 9.73
	498	19	7.4	7.										8	5.00 2 2 4.95 9.95
	519	20	7.4	7.4											5.35 1 2 5.00 10.35
	542	21	7.5	7.4											5.35 1 0 5.00 10.35
		~~22~~													5.70 1 1 5.05 10.75
	560	23	7.6	7.1											5.70 00 5.05 10.75
		~~24~~			sc.2					31	6.2	5.8			6.00 2 2 5.09 11.09
	~~533~~	25		8.4	8.4	8.40 00	5.33			32	6.3	5.8			6.05 3 2 5.09 11.14
	579	26		8.4	8.4	8.40 00	5.79			33	5.9	5.9			5.90 0 0 5.08 10.98
	595	27		8.5	8.6	8.55 1 0	6.00			34	6.4	5.9			6.15 2 3 5.11 11.26
	597	28		8.7	9.2	8.95 3 2	6.02			35	6.7	6.7			6.70 00 5.20 11.90
	612	29		9.5	9.4	9.45 1 0	6.07			36	6.7	6.7			6.70 00 5.20 11.90
	630	30		9.7	9.6	9.65 1 0	6.25			37	7.4	7.4			7.40 00 5.34 12.74
Star Seq.		1	Sc.1	Sc.2	Sc.1					38	7.4	7.5			7.45 0 1 5.34 12.79
		2	B.							39		7.8	7.7	sc.2	7.75 0 1 5.45 13.20
too far from centre		3	3.2		3.1	~~3.15 0 1 4.81 7.96~~	ev.			30		8.5	8.4		8.45 1 0 5.66 14.11
		4	3.5		3.3	~~3.40 1 1 4.83 8.23~~	ev.			31		8.7	8.7		8.70 00 5.79 14.49
		5	3.6		3.5	~~3.55 0 1 4.84 8.39~~	ev.			32		8.9	9.2		9.05 1 2 5.92 14.97
		6	3.6		3.6	~~3.60 00 4.84 8.44~~	ev.			33		9.5	9.6		9.55 1 0 6.22 15.77
										34		n.s.			

* star almost superposed on 11. Images of lt. stars on this plate are not circular.

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1912phae.proj.10550

Wednesday July 31, 1912

Scale 11. Measures of Seq. for B2 = 4h + 45°. Copied

Mc 12 31.

		Diff.	sc.1	sc.2	sc.1	Mean.	Diff.		sc.1	sc.2	sc.1	
Polar Seq	10	4.89	4.0	B.	3.9	3.95 0 1	4.94	1	3.6		3.7	3.65 01 4.84 8.49 ev.
	11	4.72	4.7		4.7	4.70 0 0	4.72	8	3.7		3.7	3.70 00 4.84 8.54 ev.
this is 15	12	4.93	~~5.7~~ 4.8	B.	4.8	4.80 0 0	4.93	9	3.9		3.9	3.90 0 0 4.86 8.76
	13	4.87	5.4	5.1	5.4	5.30 1 2	~~1.487~~ 7.	10	4.3		4.5	4.40 1 1 4.89 9.29
	14	5.12	5.5	5.2		5.35 1 2	5.17	11	4.6		4.6	4.60 0 0 4.90 9.50
	15	5.24	5.1	5.7		5.70 0 0	5.24	12	4.4		4.7	4.55 2 1 4.90 9.45
	16	5.16	6.3	~~5.9~~ 5.9		6.10 2 2	5.16	13	4.5		4.6	4.55 1 0 4.91 9.46
	17	5.29	6.2	6.2		6.20 0 0	5.29	14	4.6		4.8	4.70 1 1 4.93 9.61
	18	5.12	7.1	6.6		6.85 3 2	5.07	15	4.8	B.	4.8	4.80 0 0 4.93 9.73
	19	4.98	7.4	7.2		7.30 1 1	4.98	16	5.2	B.	4.8	5.00 2 2 4.95 9.95
	20	5.19	7.4	7.4		7.40 0 0	5.19	17	5.5	5.2		5.35 1 2 5.00 10.35
	21	5.42	7.5	7.4		7.45 1 0	5.37	18	5.3	5.4		5.35 1 0 5.00 10.35
	22							19	5.8	5.6		5.70 1 1 5.05 10.75
	23	5.60	7.6	7.7		7.65 0 1	5.55	20	5.7	5.7		5.70 0 0 5.05 10.75
	24				sc.2			21	6.2	5.8		6.00 2 2 5.09 11.09
	25	~~5.33~~		8.4	8.4	8.40 0 0	5.33	22	6.3	5.8		6.05 3 2 5.09 11.14
	26	5.79		8.4	8.4	8.40 0 0	5.79	23	5.9	5.9		5.90 0 0 5.08 10.98
	27	5.95		8.5	8.6	8.55 1 0	6.00	24	6.4	5.9		6.15 2 3 5.11 11.26
	28	5.97		8.7	9.2	8.95 3 2	6.02	25	6.7	6.7		6.70 0 0 5.20 11.90
	29	6.12		9.5	9.4	9.45 1 0	6.07	26	6.7	6.7		6.70 0 0 5.20 11.90
	30	6.30		9.7*	9.6	9.65 1 0	6.25	27	7.4	7.4		7.40 0 0 5.34 12.74
Star Seq.	1		sc.1	sc.2	sc.1			28	7.4	7.5		7.45 0 1 5.34 12.79
	2		B.					29	7.8		sc.2 7.7	7.75 0 1 5.48 ~~5.45~~ 2 13.20 ~~13.17~~
too far from centre	3		3.2		3.1	~~3.15 0 1 4.81 7.96~~ ev.		30	8.5		8.4	8.45 1 0 5.66 14.11
	4		3.5		3.3	~~3.40 1 1 4.83 8.23~~ ev.		31	8.7		8.7	8.70 0 0 5.79 14.49
	5		3.6		3.5	~~3.55 0 1 4.84 8.39~~ ev.		32	8.9		9.2	9.05 1 2 5.92 14.97
	6		3.6		3.6	~~3.60 0 0 4.84 8.44~~ ev.		33	9.5		9.6	9.55 1 0 ~~6.22~~ 6.19 15.74
								34	n.s.			

* star almost superposed on 11. Images of st. stars on this plate are not circular.

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Thursday August 1, 1912

Scale 4 Measures of Seq. for B6 = 14 40 +45

MC 1150

		Sc1	Sc2	Sc1	P.C.	Mean.		Mean	Diff
Polar Seq.	10	4.1		3.8	7.3	7.6	7.45 1.44	3.95 1 2	4.94
	11	4.6		4.6	7.8	8.4	8.10 1.32	4.60 0 0	4.82
	12	4.8	B.	4.7	8.2	8.5	8.35 1.38	4.75 0 1	4.98
	13	5.3	5.4		8.3	8.7	8.50 1.67	5.35 1 0	4.82
	14	5.6	5.4		8.7	9.4	9.05 1.47	5.50 1 1	5.02
Error of a unit.	15	5.8	5.7		8.5	9.5	9.50 1.44	5.75 0 1	5.19
	16	6.1	5.8		9.2	9.5	9.35 1.91	5.95 1 2	5.31
	17	6.5	6.2		n.s.			6.35 1 2	5.14
	18	6.7	6.6					6.65 1 0	5.27
	19	6.8	6.6					6.70 1 1	5.58
	20	7.5	7.4					7.45 1 0	5.14
	21	7.6	7.6					1.60 0 0	5.22
	~~22~~								
	23	8.0	7.8					7.90 1 1	5.30
	~~24~~			Sc.2					
	25		8.3	8.4				8.35 1 0	5.38
	26		8.6	8.6				8.60 0 0	5.59
	27		9.1	9.2				9.15 1 0	5.40
	28		9.5	9.6				9.55 1 0	5.42
	29		1	1				7	
	30								
Star Seq.	1				4.8				
tns far from centre	2								
" " "	3								
" " "	4	B.			5 4.4				
" " "	5								
	6	B.			6.4	6.3		~~6.35~~ 0 1	

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1912phae.proj.10550

Thursday August 1, 1912.

Scale U Measures of Seq. for B 6 = 14 40 +45° Capiet.

Mc 11 50 cont.

	Sc.1	Sc.2	Sc.1	P.C.		Mean.	P.C. cum	Magn.
7	3.2		3.2	6.3	6.4 6.35	3.20 00		
8	3.6		3.6	6.7	6.6 6.65	3.60 00 ~~4.78 8.38~~ 24.		
9	4.2		4.2	7.3	7.6 7.45	4.20 00 4.87 9.07	8.133	8.78
10	4.6		4.6	7.7	7.8 7.75	4.60 00 4.93 9.53	1.37	9.12
11	4.7		4.6	8.2	8.3 8.25	4.65 1 0 4.93 9.58	1.43	9.68
12	4.8	B.	4.6	8.5	8.4 8.45	4.70 1 1 4.94 9.64	1.47	9.92
13	4.7		4.7	8.6	8.4 8.50	4.70 00 4.94 9.64	1.48	9.98
14	5.2	B.	4.9	8.7	9.1 8.90	~~4.95~~ 5.05 2 1 4.98 10.03	1.52	10.42
15	5.5	5.1		8.9	9.2 9.05	5.30 2 2 5.01 10.31	1.54	10.59
16	5.2	5.0		~~9.1?~~		5.10 1 1 4.99 10.09		
17	5.6	5.3				5.45 2 1 5.02 10.47		
18	5.6	5.6				5.60 0 0 5.04 10.64		
19	5.8	5.9				5.85 0 1 5.08 10.93		
20	5.8	5.7				5.75 0 1 5.08 10.83		
21	6.4	6.2				6.30 1 1 5.15 11.45		
22	6.7	6.6				6.65 1 0 5.19 11.84		
23	7.1	7.2				7.15 1 0 5.27 12.42		
24	6.6	6.7				6.65 0 1 5.19 11.84		
25	7.2	7.2				7.20 00 5.27 12.47		
26	6.7	6.6				6.65 1 0 5.19 11.84		
27	7.6	7.4				7.50 1 1 5.30 12.80		
28		8.3	8.2			8.25 1 0 5.38 13.63		
29		8.2	8.2			8.20 00 5.38 13.58		
30		8.5	8.4			8.45 1 1 5.39 13.78		
31		8.7	8.7			8.70 00 5.45 14.15		
32		9.2	9.1			9.15 0 1 5.49 14.64		
33		9.5	9.2			9.35 1 2 5.50 14.85		
34		9.5	9.2			9.35 1 2 5.50 14.85		
35		9.7	9.5			9.60 1 2 5.52 15.12		

do not find P.C.

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Friday August 1, 1912.

Scale 4 Measures of Seq. for C4 = 7h + 15°

Beginning with no. 22, the following stars are remeasured owing to an error in marking the stars on the plates.

On MC188 stars 24, 26, 29 marked wrong. On MC847 stars 24, 26 & 29 marked wrong.

	MC188 Sc.1	Sc.2	Sc.1	Mean		Copied from 88	Reading from curve		Copied from 83	Diff.
22	7.8		7.7 Sc.2	7.75	01	82	454	12.29	12.74	-45
23		8.3	8.4	8.35	10	84	454	12.89	12.94	-5
24		8.6	8.7	8.65	01		454	13.19		
25		8.8	8.7	8.75	01	83	453	13.28	12.84	+44
26		9.0	9.1	9.05	01		453	13.58		
27		9.2	9.3	9.25	01	88	452	13.77	13.34	+43
28		9.3	9.4	9.35	10	90	452	13.87	13.53	+34
29		↓		F						

	MC847			Mean						Diff.
22	7.6		7.6 Sc.2	7.60	00	84	482	12.42	12.22	+20
23		8.2	8.2	8.20	00	83	502	13.22	12.69	53
24		8.4	8.2	8.30	11	~~88~~	508	13.36	12.56	
25		8.5	8.4	8.45	10	86	512	13.57	13.22	35
26		8.7	8.6	8.65	10	91	515	13.80	~~12.69~~	
27		9.2	9.1	9.15	01		523	14.38	14.44	-6
28		9.2	9.2	9.20	00		524	14.44	14.87	+4 -43
29		9.5?	9.5?	9.50?	00		527	14.77?	↓	

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1912phae.proj.10550

Monday August 5, 1912.

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Scale 4 Measures of Seq. for B6 = 14 40 +45°

mc955

		sc.1	sc.2	sc.1	P.C.	P.C. sc.2			Mean	Diff	9	sc.1 3.7	sc.2	sc.1 3.5	P.C. 6.7 6.75	6.8	Margin 8.80	5.20	Mean 3.60 i 1
	10	3.7		3.6	7.1	7.2	7.15	.174	3.65	i 0	.524	10	4.3	4.2	7.3 7.40	7.5	9.41	5.16	4.25 i 0
	11	4.3		4.2	7.7	7.7	7.70	.172	4.25	i 0	.517	11	4.6	4.5	7.6 7.65	7.7	9.89	5.14	4.55 0 1
Put 12 in place of 13 by mistake.	12	4.8	B	4.7	8.4*	8.4	8.30	8.43	4.75	0 1	.498	12	4.7	4.6	8.2 8.00	7.8	9.79	5.14	4.65 i 0
	13	5.1	5.1		8.2	8.4	8.40	.177	5.10	0 0	.507	13	4.6	4.6	7.8 7.80	7.8	9.74	5.14	4.60 0 0
	14	5.6	5.5		8.6	8.4	8.50	8.202	5.55	0 1	.497	14	4.9	B 5.0	8.6 8.60	8.6	10.08	5.13	4.95 10 0 1
	15	5.7	5.6		8.4	9.0	8.70	.224	5.65	i 0	.530	15	5.2	5.2	8.6 8.60	8.6	10.34	5.14	5.20 0 0
	16	5.9	5.8		9.4	9.5	9.45	.181	5.85	i 0	.541	16	5.4	5.4	8.8 Paint	9.3	10.55	5.15	5.40 0 0
	17	6.3	6.2		7				6.25	i 0	.524	17	5.6	5.4	Almost surf.		10.66	5.16	5.50 i 1
	18	6.6	6.6						6.60	0 0	.532	18	5.7	5.6			No. 142 10.82	5.17	5.65 i 0
	19	6.9	6.9						6.90	0 0	.538	19	6.1	5.7			11.09	5.19	5.90 2 2
	20	7.3	7.3						7.30	0 0	.529	20	5.9	5.8			11.03	5.18	5.85 i 0
	21	7.5	7.3						7.40	i 1	.542	21	6.2	6.5			11.61	5.26	6.35 2 1
	23	7.6	7.7						7.65	0 1	.555	22	6.6	6.6			11.89	5.29	6.60 0 0
	25		8.2	sc.2 8.3					8.25	0 1	.548	23	6.8	6.6			12.00	5.30	6.70 i 1
	26		8.5	8.3					8.40	i 1	.579	24	6.7	6.6			11.94	5.29	6.65 i 0
	27		8.7	8.6					8.65	i 0	.590	25	6.8	6.7			12.08	5.33	6.70 0 1
	28		9.0	8.9					8.95	0 1	.602	26	6.8	6.7			12.00	5.30	6.70 0 0
	29		9.3	9.5					9.40	i 1	6.12	27	7.4	7.4			12.86	5.46	7.40 0 0
	30		7	7								28	7.7	7.7			13.24	5.54	7.70 0 0
	1	B.			4.6	4.7						29	7.4*	7.8			13.42	5.57	7.85 i 0
near edge	2											30	8.2	8.2			13.89	5.69	8.20 0 0
near edge	3				4.6	4.7						31	8.2	8.4			14.02	5.72	8.30 i 1
	4	B.			5.0	4.9		Margin.				32	8.5	8.5			14.30	5.80	8.50 0 0
too far from center	5	B			5.6							33	8.8	8.8			14.71	5.91	8.80 0 0
" " "	6	B.			5.9	5.6						34	9.2	9.3			15.34	6.09	9.25 0 1
too near edge	7	3.3		3.1	5.9	5.9			5.46	3.90 i 1	5.26	35	9.5	9.4			15.64	6.19	9.45 i 0
	8	3.3		3.3	6.4	6.6			8.53	3.30 0 0	5.23	36	9.5	9.5			15.73	6.23	9.50 0 0

* wrong star - meas. no. 21 of Polar Seq.

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1912phae.proj.10550

Wednesday Aug. 7, 1912

Scale 4. C1

MC 832 Measures of Prismatic Companions.

Do not find pris companions on this plate.

~~Friday~~ Monday August 12 9 - 1912

MC 1475

	9					
	10					
	~~11~~	sc.1		sc.1		
Polar Seq.	10	7.6		7.5		7.55
	11	7.9		7.9		7.90
	12		8.2		8.2	8.20
	13		8.4		8.6	8.50
	14		9.2		8.7	8.95
	15		9.2		8.5?	8.85?
	16		9.5?		9.4	9.45?
	17		n.s.			
		sc.1	sc.2	sc.1	sc.2	
Slow Seq.	8	7.1			7.5	7.30
	9	7.5			7.7	7.60
	10	7.8			7.8	7.80
	11	7.8			7.9	7.85
	12	7.6			7.7	7.65
	13		8.4		7.8	8.10
	14		8.4		8.6	8.50
	15		8.7		8.7	8.70
	16		9.2		9.2	9.20
	17		9.3		9.5	9.40
	18		9.5		9.5	9.50

Friday Aug. 9 - Interrupted too late to measure.

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1912phaa.proj.10550

Thursday August 8, 1912

Scale Measures of Seq. for C6 = 11 +15°

Mc 1841

		Sc.1	~~Sc.~~	Sc.2	Sc.	Mean.	Diff.	Pair. Comp. Sc.1	Sc.2	Sc.2		
Polar	10	4.6	4.8		4.7	4.75	.01	4.14	10	8.2	8.3	8.25 .064
	11		5.5	B.	5.4	5.45	.10	3.97	11	8.4	8.4	8.40 1.02
	12		5.7		5.6	5.65	.10	4.08	12	8.7	8.7	8.70 1.03
	13		5.9		5.9	5.90	.00	4.27	13	9.1	9.2	9.15 1.02
	14	5.5	6.2	6.1		6.15	.01	4.37		9.2	9.3	9.25 1.27
	15	5.5	6.6	6.5		6.55	.01	4.39		~~8.7~~ 9.5?	9.6?	9.56? 1.37 w.s.
	16		6.7	6.6		6.65	.10	4.61		7		
	17	6.2	6.8	6.6		6.70	.11	4.79				
	18	6.3	7.2	7.2		7.20	.00	4.72				
	19	6.4	7.7	7.6		7.65	.10	4.63				
	20		7.7	7.8		7.75	.10	4.84				
	21			8.2	Sc.2 8.2	8.20	.00	4.62				
	23	6.7		8.4	8.2	8.30	.11	4.90				
	25			8.5	8.6	8.55	.10	5.18				
	26			9.1	9.1	9.10	.00	5.09				
	27			9.4	9.3	9.35	.01	5.20				
	28			9.5?	9.4?	9.45?	.10	5.52?				
	29			1.								
	1											
	2											
	3											
	4											
	5											
	6											
	7	B.										
	8	B										
	9	4.6			4.5	4.55	.01	7.4		7.4		

~~It~~ measures crossed out are not Polar Seq. - meas. Stan Seq by mistake.

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1912phae.proj.10550

Thursday August 8, 1912.

Scale 11 Measures of Seq. for C6 = 71 + 15 Leafield

MC 1841 cont.

	Sc.1	Sc.2	Sc.1	Mean	P.C. Sc.1	P.C. Sc.2	P.C. Sc.1	P.C. Sc.2			
10	4.6		4.5	4.55 ~~01 391 8.46~~ 8.46	7.6		7.6		7.60		
11	4.8		4.7	4.75 ~~01 395 8.70~~ 8.70	8.2	8.2		8.1	8.15	0.78	8.93
12	4.8	B.	4.9	4.85 01 395 8.80	8.1	8.0		8.2	8.10	0.76	8.86
13	5.4	5.0		5.20 2 2 406 9.26		8.6		8.2	8.40	0.89	9.29
14	5.5	5.3		5.45 1 1 411 9.51		8.6		8.6	8.60	0.98	9.58
15	5.5	5.2		5.35 1 2 411 9.46		8.8		8.9	8.85	1.06	9.91
16	5.8	5.8		5.80 0 0 422 10.02		9.2		9.3	9.25	1.23	10.48
17	6.3	5.9		6.10 2 2 428 10.38		9.5		9.3	9.40	1.30	10.70
18	6.2	6.2		6.20 0 0 431 10.51							
19	6.2	6.1		6.15 0 1 431 10.46							
20	6.4	6.4		6.40 0 0 438 10.78							
21	6.5	6.6		6.55 1 0 ~~447~~ 445 10.98							
22	6.7	6.5		6.60 1 1 444 11.04							
23	6.7	6.6		6.65 1 0 ~~444~~ 446 11.09							
24	7.1	6.8		6.95 1 2 458 11.50							
25	7.6	7.4		7.50 1 1 472 12.22							
26	7.6	7.6		7.60 0 0 475 12.35							
27		7.8	8.9	7.85 0 1 481 12.66							
28		8.2	8.2	8.20 0 0 493 13.13							
29		8.2	8.4	8.30 1 1 496 13.26							
30		8.6	8.9	8.75 2 1 511 13.86							
31		9.2	9.2	9.20 0 0 524 14.44							
32		h. s.	n.s.								

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Monday August 12, 1912

Scale U. Measures of Prismatic Comparisons B1

Plate MC1201 is measured on p. 87 of this Book.

		MC1201					
		Sc.1	Sc.2	Sc.1	Sc.2		Diff
Polar Seq.	10	7.9			8.3	8.10	0.79
	11	~~8.4~~	8.4		8.4	8.40	1.02
	12		8.5		8.5	8.50	1.28
	13		9.3		9.3	9.30	0.87
	14		∫		∫	∫	
Stan. Seq.	1	6.2	5.9			6.05	
too far from c.	2	6.3	6.3			6.30	
	3	6.6	6.5			6.55	
	4	6.8	6.8			6.80	
too far from centre	5	7.1	7.2			7.15	
too far from centre	6	7.3	7.4			7.35	
	7	7.2	7.3			7.25	
	8	7.6	7.7			7.65	
	9	7.8	7.7			7.75	
	10		8.2		8.2	8.20	
	11		8.3		8.3	8.30	
	12		8.6		8.5	8.55	
	13		8.6		8.6	8.60	
2 stars too close together - cannot tell which is P.C.	14				~~8.6~~		
	15		9.0		9.4	9.20	
	16		9.3?		9.4?	9.35?	
	17		∫				

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1912phae.proj.10550

Friday August 16, 1912

Scale m. Var. 025338

I 32353. Measures of Comparison Stars.

Prel. Comp. Saturday Aug 17, 1912

	R						PC	Diff. Star	Diff. PC.
	Sc.1	Sc.2	Sc.2	Sc.1	Sc.2	Sc.2			
a	4.7 4.4	4.6		~~4.3~~	9.2?	9.3	450 9.25	1.25	
b	5.7 5.9	5.6		~~X~~		7	575	1.5	
d ~~c~~	5.4 5.6	5.6					560	.25	
c ~~d~~	5.3 5.5	5.6					555		
e	5.6 5.8	5.8					580		
f	5.7 5.9	5 6.8					585		
g	6.5 6.7	6.7					670		
h	6.8 7.0	7.2					710		
k		7.4	7.5				745		
l		7.8	7.5				765		
m		7.9	8.2				805		
n	~~8.3~~	8.3	8.4				835		
var.	5.1 5.3	5.2					515		
∝	B.			Sc.1 B.	~~5.6~~ 5.8	5.6 7.0	~~B~~ 7		580
β	1.5 1.7			1.6 1.8	6.6 6.8	7.0	155		680
γ	1.5 1.7			1.7 1.9	6.8 7.0	7.2	180		~~7.10~~ 7.10
δ	2.6 2.8			2.6 2.8	7.7	7.7	~~2.80~~		7.70
η	4.6 4.8			4.6 4.8	9.2	9.2	9.1 480		9.15
ζ	2.8 3.0?			2.8 3.0	7.6	7.6	~~2.80~~ 3.00?		7.60

Dim. elongated and toe near edge of plate. Var. ?

See Remark page 100.

I, 16963

C.S. marked on ~~this plate~~ by Miss Leavitt.

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Friday August 16, 1912.

Scale M. Measures of e.s. for 025338. cont.

I 7882.

	Prin. Comparisons							P.C.				
	Sc.1	Sc.2	Sc.1	Sc.2	Sc.2	Sc.2	Star	p.c.	I2643	I7882	I32353	Mean	Res.
var. ~~a~~	3.1 3.3	B.	3.2 3.4	~~8.05~~ 8.5			3.3 3.5	.	~~9.05~~				
a	2.9 3.1	B.	3.0 3.2	9.2	8.5		3.15 ~~2.95~~	8.50	9.05	8.50	9.25	8.93	12 43 32
b	3.3 3.5	B.	3.5 3.7	9.2	9.2	.	3.6 3.70	9.20		9.20		9.20	à a .
~~a b~~	3.5 3.7	B.	3.7 3.9	9.6?	9.6	.	3.80	9.60		9.60		9.60	à a .
~~c d~~	3.6 3.8	B.	3.7 3.9	7	7.		7 3.65	7		7		7	. . .
e	3.6 3.8	B.	3.7 3.9				3.85						
f	3.9 4.1	B.	3.9 4.1				4.10 ~~3.90~~						
g	4.6 4.8	5.1					4.95						
h	5.8 6.0	5.4					5.70						
k	5.7 5.9	6.2					6.05						
l	6.4 6.6	6.5					6.55						
m	6.9 7.1	6.8					6.95						
n		9.3	8.2 Sc.2				8.25						
α	B.		B	4.8 5.0	5.0 Sc.1		.	5.00	5.90	5.00	7 5.60	5.53	37 43 53 17
β	B.		B.	5.7 5.9	6.1		.	6.00 ~~5.90~~	6.90	6.00	6.90	6.60	30 60 30
γ	B.		B.	6.0 6.2	6.2			6.20	6.90	6.20	7.10	6.73	17 53 37
δ	1.7		1.5 1.7	6.6	6.8	7.1	1.70 ~~1.90~~	6.95	7.65	6.95	7.70	7.43	22 48 27
ε	1.9 2.1		1.7 1.9	6.6	6.8	7.4	2.00 ~~1.80~~	7.10	7.80	7.10	7.60 ~~7.15~~ 7.5	7.50 ~~8.02~~	30 48 10 22 ~~92~~ 113
η	2.7 2.9		2.9 3.1	9.4?	9.1?	9.2	2.00 ~~2.30~~	9.15 205		9.15	9.15 205	9.15 ~~9.10~~ 9.30 ~~8.38~~	00 00 77 ~~77~~ 98

Too near edge see note

See Remarks page 100.

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Saturday August 17, 1912.

Scale M. Measures of c.s. for Var. 025338 Cont.

I 2643

	pc.1	sc.2		Pris. Comp. sc.1	sc.2	PC.	Star	Stars. I 7882	I 32353	Mean		Resid	
a	3.9 4.1	4.1		8.9	9.1	9.0	9.05 8.95	4.10 00	3.15 4.50	4.50	3.92	18	77	58
b	5 4.2 5.4	5.3		1/3				5.35 01	360 5.75	5.75	4.90	45	130	85
d	5 4.3 5.5	5.2						5.35 12	380 5.60	5.60	4.92	43	112	68
c	4.9 5.1	5.2						5.15 10	3.75	5.55	4.82	33	0 117	73
e	5.5 5.7	5.5						5.60 11	3.85	5.80	5.08	52	123	72
f	5.5 5.7	5.6						5.65 10	4.10	5.85	5.20	45	110	65
g	6.6 6.8	5 6.7						6 6.55 21	4.95	6.70	6.10	55	115	60
h	6.8 7.0	7.2						7.10 11	5.70	7.10	6.63	47	93	47
k		7.3	7.4					7.35 10	6.05	7.45	6.95	40	90	50
l		7.9	7.9					7.90 00	6.55	7.65	7.37	53	82	28
m		8.4	8.2					8.30 11	6.95	8.05	7.77	53	82	28
n		9.2	9.1					9.15 01	8.25	8.35	8.58	57	33	23
Var.	5 4.6 5.8	5.6						5.70 11	3.15	2 5.45	4.70	100	155	55
α	B	B		sc.1 37 39	5.8	6.0	5.8 5.90	3.92 A			3.92	a		+79
β	3 1.4 15	B		1.5 17	6.8	7.0	6.8 6.90	6 1.70 11		1.75	1.31 1.68	08		+396 07
γ	4 1.3 16	B		1.4 16	6.7	6.9	6.9 6.90	6 1.70 00	10	1.80 05	1.33 1.70	10		+422 10
δ	2.7 29	B.		2.6 28	sc.2 1.5	7.8	7.65	2.85 10	165 170	2.80 100	2.45	40	75	+428 35
ζ	2.7 29	B.		2.6 28	7.6	8.0	7.80	2.85 10	2.00	3.08 4.85	2.62 3.22	23 37	62 122	38 +387 158
η	3.8 40	B.		3.8 40	defect			400 3.80 00	3.00	4.80 3.00	3.93 3.33	07 67	93 33	87 33

Reject measures of star images for small late stars on I plates. H. S. L.

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1912phae.proj.10550

Saturday August 17, 1912.

Scale m. Meas. of e.s. for 025338 cont.

	Ac 7821			Ac 7116		
	Sc.1 Sc.2	Sc.2		Sc.1 Sc.1	Sc.2	Sc.2	
a	6.7 [6.9]	7.2	7.05 ± 2	6.6 [6.8]	7.0		6.90 ± 1
b		7.5	7.6	7.55 ± 0		7.6	7.6	7.60 0 0
~~d~~		8.2	8.1	8.15 0 1		7.8	7.8	7.80 0 0
c d		7.6	7.8	7.70 ± 1		7.7	7.6	7.65 1 0
e		8.2	8.2	8.20 0 0		7.8	8.0	7.95 ± 0
f		8.3	8.3	8.30 0 0		8.2	8.2	8.20 0 0
g		8.7	8.6	8.65 1 0		8.5	8.4	8.45 1 0
h		9.2	9.2	9.20 0 0		8.7	8.6	8.65 1 0
k		9.4	9.4	9.40 0 0		8.8	8.9	8.85 0 1
l		9.6	9.5	9.55 0 1		9.3	9.2	9.25 1 0
m		9.8 [9]	9.8	9.80 0 0		9.4	9.4	9.40 0 0
n		n.s.	n.s.	n.s.		1	t.	7
Var.		7.5	7.6	7.55 ± 0	4 4	7.4	7.5	7.45 0 1
α	Sc.1 2.7 [2.9] B	2.8 [3.0]		2.95 ± 0	2.6 [2.8]	2.6 [2.8]		2.80 0 0
β	3.6 [3.8] B	3.5 [3.7]		3.65 0 1	3.2 [3.4]	3.0 [3.2]		3.30 1 1
γ	3.7 [3.9] B	3.7 [3.9]		3.90 0 0	3.1 [3.3]	3.0 [3.2]		3.25 1 0
δ	4.7 [4.9]	4.9		4.90 0 0	4.2 [4.4]	4.3		4.35 0 1
ε	4.7 [4.9]	5.2		5.05 ± 2	4.6 [4.8]	5.0		4.90 ± 1
η	6.7 [6.9]	6.8		6.85 ± 0	6.9 [7.1]	7.1		7.10 0 0

See Remarks page 100

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1912phae.proj.10550

Monday August 19. 1912

Scale m Measures of c.s. for 025338 cont

Ac 9068

		Sc.1	Sc 2	Sc.2	
	a	6.6 6.8	6.7		6.75 0 1
Var. by mistake	~~b~~	~~6.8~~	7.5	7.4	7.45 1 0
d ~~c~~			7.7	7.1	7.70 0 0
c ~~d~~			7.6	7.6	7.60 0 0
	e		7.6	7.1	7.65 0 1
	f		7.8	7.8	7.80 0 0
	g		8.3	8.5	8.40 1 1
	h		8.7	8.6	8.65 1 0
	k		9.2	8.8	9.00 2 2
	l		9.2	9.3	9.25 0 1
	m		9.4	9.4	9.40 0 0
	n		f.	tf.	7
Var.		6.8 7.0	7.3	Sc.1	7.15 2 1
	α	3.2 3.4	B	3.3 3.5	3.4 3.25 0 1
	β	3.7 3.9	B	3.8 4.0	3.9 3.75 1 0
	γ	3.8 4.0	Sc.1 4.0	4.2 ~~4~~	4.10 ~~3.90~~ 1 1
	δ	4.8 5.0	4.8	5.0	5.00 ~~4.80~~ 0 0
	ζ	4.9 5.1	5.2	5.4	5.2 5.25 1 2
	η	6.7 6.9	Sc.2 7.1	~~7~~	7.00 1 1

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1912phae.proj.10550

~~Monday~~ Tuesday August 20 (14), 1912.

Scale M. Measures of c.s. for Var. 025 338 cont.

AC 6946

	sc.1	sc.2	sc.2	AC 6946	AC 7116	AC 7195	AC 7821	AC 9068	Mean.	Res.			
a	~~4.85~~	7.6	7.6	7.60 00	6.90	6.40	7.05	6.75	6.78	~~28~~ 12	38	27	03
b		8.2	8.4	8.30 1 1	7.60	6.75	7.55	7.45	7.34	26	59	21	11
d ~~e~~		8.5	8.5	8.50 00	7.80	7.55	8.15	7.70	7.85	00	~~30~~ 25	35	10
c ~~d~~		8.3	8.4	8.35 1 0	7.65	7.40	7.70	7.60	7.59	06	19	11	01
e		8.5	8.6	8.55 1 0	7.95	7.60	8.20	7.65	7.85	10	25	35	20
f		8.6	8.6	8.60 00	8.20	7.70	8.30	7.80	8.00	20	30	30	20
g		8.9	8.8	8.85 1 0	8.45	7.95	8.65	8.40	8.36	09	41	29	04
h		9.3	9.3	9.30 00	8.65	8.55	9.20	8.65	8.76	11	21	44	11
k		9.7	9.7	9.70 00	8.85	8.65	9.40	9.00	8.98	13	33	42	02
l		~~7~~	~~7~~	~~7~~	9.25	8.85	9.55	9.25	9.22	03	37	33	03
m					9.40	9.20	9.80	9.40	9.45	05	25	35	05
n					7	9.60? 40	n.s.		9.60? 85?	.	a	.	.
Var.	~~7.1~~	7.8	~~sc.2~~	7.80 00	7.45	6.85	7.55	7.15	7.25	~~25~~ 20	40	30	10
α	3.6 38	B.	~~3.5~~ sc.1 3.7	~~3.75~~ 3.80 0 1	2.80	1.80	2.95	3.25 4	2.75	05	95	20	70
β	3.9 41	B.	3.9 41	~~3.90~~ 4.10 00	3.30	2.85	3.75	3.75 9	3.46	16	61	29	49
γ	4.2 ~~44~~	B.	4.2 ~~44~~	~~4.70~~ 00	3.25	2.80	3.90	~~3.90~~ 4.10	3.51	26	71	39	59
δ	4.9 51	5.5		5.30 2 2	4.35	4.00	4.90	~~4.80~~ 5.00	4.56	21	56	34	44
ε	5.6 58	5.6		5.70 1 1	4.90	3.90	5.05	5.25 2	4.78	12	88	27	47
η	~~7.1~~	7.4	sc.2 7.5	7.45 0 1	7.10	6.35	6.85	7.00	6.82	28	47	03	18

Images on this plate are not good. They are ft and ~~are~~ elongated.

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1912phae.proj.10550

Tuesday August 20, 1912.

Scale m. Measures of c.s. for Var. 025338 cont:

Ac 7195

	Ac.1	Sc.2	Ac.2	
a	6.3 6.5 ~~6~~ 6.3 w.s.			6.80 4 1
b	6.6 6.8	6.7		6.85 0 1
~~d~~ b		7.5	7.6	7.55 1 0
c ~~d~~		7.4	7.4	7.40 0 0
e		7.6	7.6	7.60 0 0
f		7.7	7.7	7.70 0 0
g		8.0	7.9	7.95 0 1
h		8.6	8.5	8.55 0 1
k		8.7	8.6	8.65 1 0
l		8.9	8.8	8.85 1 0
m		9.2	9.2	9.20 0 0
n		9.6?	9.6	9.60? 0 0
Var.	6.7 6.9	6.8		6.85 1 1
α	1.7 1.9	B	Sc.1 1.5 1.7	1.60 1 1
β	2.6 2.8		2.7 2.9	2.85 0 1
γ	2.5 2.7	B.	2.7 2.9	2.80 1 1
δ	3.8 4.0		3.8 4.0 ~~3.9~~	~~3.80~~ 0 0
ε	3.8 4.0	B	3.6 3.8	3.90 1 1
η	6.2 6.4	6.3		6.35 0 1

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Tuesday August 20, 1912.

Scale m. Mean of c.s. for Var. 025338 cont.

Ac 7116

	Sc.1	Sc.2		Mean.
a		7.2	7.2	7.20 00
b		7.6	7.6	7.60 00
~~d~~		7.7	7.6	7.65 10
~~c~~ d		7.6	7.6	7.60 00
e		7.7	7.8	7.75 ± 0
f		7.9	7.8	7.85 10
g		8.5	8.4	8.45 10
h		8.6	8.6	8.60 00
k		8.9	8.9	8.90 00
l		9.3	9.2	9.25 10
m		9.2	9.3	9.25 01
n		~~f.~~	~~f~~	~~f~~ =
Var.	f	7.6	7.5	7.55 01
α	2.6 2.8	B	2.7	2.75 01
β	3.0 3.2	B	3.6	3.40 ± 2 2
γ	3.2 3.4	B	3.6	3.50 ± 1 1
δ	4.3 4.5	4.6		4.55 ± 0
ζ	4.5 4.7	4.9		4.80 ± 1
η	6.6 6.8	7.2		7.00 ± 2 2

Measured twice by mistake. Rejected.

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1912phae.proj.10550

Monday August 26, 1912

Scale m. C1 = 1h + 15 Copied

I 32017

Corr. for alt. +35

		Sc.1	Sc.2	Sc.2			
Polar Seq.	10	1p 4.8 50	5.8		5.15	3.74	
	11	1 5.6 58	5.7		5.75	3.67	
	12	12 5.7 59	6.2		6.05	3.68	
	13	13 6.5 67	6.6		6.65	3.52	
	14	14 6.6 68	7.3		7.05	3.47	
	15	15	7.8 5	1.5	7.50	3.44	
	16		1.6	1.6	7.60	3.66	
	17		1.8	7.7	7.75	3.74	
	18		8.3	8.4	8.35	3.57	
	19		8.6	8.6	8.60	3.68	
	20		8.1	8.6	8.65	3.94	
	21		8.9	8.9	8.90	3.92	
	~~22~~		~~9.2~~				
	23		9.3	9.3	9.30	3.90	
	~~24~~						
	25		9.6	9.6	9.60	4.13	
	~~26~~		~~1~~	~~1~~			
	~~27~~						
	~~28~~						

		Sc.1		Fr Magn. Curve.		
	1	32 34	3.1 33	3.35		
100 far from centre	2	3.2 34	3.4 36	3.50		
Im elongated	3	3.5 37	3.5 37	7 3.50		
100 far from centre.	4	3.9 4.1 4.5 W.S.	4.0 42	4.15 ~~3.95~~		
	5	4.6 48	4.5 47	7 4.55	3.81	8.56
	6	4.5 47	4.3 45	6 4.40	3.85	8.45
	7	5.2 5.4	4.8 50	5.20	3.75	8.95

For measures of P.C. see Q III : 85

night heavy images (clouds)

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Monday August 26, 1912 -

Scale m - $C_1 = 1^h + 15^\circ$

I 32017 cont.

		RC.1	Sc.2	Sc.2			
~~Pola~~	8	5.3 5.5	5.4		5.45	3.71	9.16 ~~8.56~~
	9	5.4 5.6	5.3		5.45	3.71	9.16
	10	5.5 5.7	5.4		5.55	3.69	9.24
	11	5.6 5.8	5.6		5.70	3.68	9.38
	12	6.2 6.4	6.3		6.35	3.61	9.96
	13	6.1 6.3	6.4		6.35	3.61	9.96
	14	6.6 6.8	7.2		7.00	3.57	10.57
	15	4	1.4	1.4	7.40	3.59	10.99
	16		1.5	1.5	7.50	3.59	11.09
	17		1.7	1.6	7.65	3.60	11.25
	18		8.3	8.3	8.30	3.74	12.04
	19		8.4	8.4	8.40	3.77	12.17
	20		8.6	8.6	8.60	3.84	12.44
almost sufs.?	21		8.7?	8.7?	8.70	?3.86	12.56
	22		9.4	9.4	9.40	4.06	13.46
	23		9.4	9.3	9.35	4.06	13.41
	24		9.6	9.5	9.55	4.13	13.68
	25		F	F			F

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1912phae.proj.10550

Cl. = 1^h + 15°

Scale m. Wednesday August 28, 1912 - Copied.

I 34359

Corr. for alt. +01

		sc.1	sc.2	P.C.		sc.1	sc.X	sc.2				
Polar.	10	4.7 4.9	5.1	5.00	12	5.3 5.5	5.3		5.40	5.30	4.05	9.45
	11	5.2 5.4	5.5	5.45	13	5.5 5.7	5.7		5.70	5.60	4.04	9.74
	12	5.5 5.7	5.6	5.65	14	6.2 6.4	6.2		6.30	6.20	4.04	10.34
	13	5.9 6.1	6.1 5.7	6.00	15	6.6 6.8	6.8		6.80	6.70	4.04	10.84
	14	6.2 6.4	6.5	6.45	16	7.2 7.4	7.2		7.30	7.20	4.05	11.35
	15	6.6 6.8	6.8	6.80	17	7.2 7.4	7.4		7.40	7.30	4.05	11.45
	16	6.8 7.0	7.2	7.10	18	9 =	7.8 8.0	8.2	8.00		4.04	12.04
	17		7.4 7.7	7.55	19		7.8 8.0	8.2	8.00		4.04	12.04
	18		7.7 7.8	7.75	20		8.9 9.1	8.1 9.3	w.s. 8.80		4.04	12.84
	19		8.5 8.4	8.45	21		8.8 9.0	8.1	8.75		4.04	12.79
	20		8.6 8.6	8.60	22		9.4 9.6	9.4	9.40		4.05	13.45
	21		8.7 8.9	8.80 8.75	23		9.5 9.7	9.4	9.45		4.04	13.49
	22		8.8 9.2	9.00	24		9.7 9.9	9.6	9.65		4.04	13.69
	23		9.3 9.2	9.25	25		n.s.	n.s.				
	25		9.1 9.4	9.55								
	26		n.s.									

For Encke Magn.

		sc.1	sc.2		
	1	3.9 3.4	3.2	7.7 7.7	4 3.20
	2	3.2 3.4 4.1 w.s.	3.3	8.6 8.6	4 3.25
	3	2.9 3.1 2.7 w.s.	2.9	8.5 8.4	3.10 2.90
too far from centre	4				
	5	3.8 4.0	3.8	9.3 9.3	4.00 3.80
	6	3.8 4.0	B.	9.5 9.5	4.00
	7	3.9 4.1	4.1	9.5 9.5	4.10
	8	4.6 4.8	4.7		4.75 4.04 8.79
	9	4.5 4.7	4.8		4.75 4.04 8.79
	10	4.6 4.8	4.7		4.75 4.04 8.79
	11	5.2 5.4	5.6		5.50 4.05 9.55

For meas. of P.C. see O'R III: 86

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1912phae.proj.10550

C4. = 7^h +15°

Scale m. Friday Aug. 30, 1912. Copied.

I 28188 ~~Preceding~~ Following images North down. film up.

corr for alt +.02

		sc.1	sc.2	sc.1			
Stan. Seq.	1	2.6 2.8	~~2.8~~	2.8 3.0	2.90?		
	2	3.3 3.5	B.	3.4 3.6	3.35		
	3	3.7 3.9		3.8 4.0	3.95		
	4	3.8 4.0	B.	3.9 4.1	4.05 ~~3.85~~		
	5	4.7 4.9	5.1		5.00	3.14	8.14
	6	4.6 4.8	4.8		4.80	3.14	7.94
	7	4.8 5.0	5.2		5.10	3.14	8.24
	8	sup.	sup.				
	9	5.8 6.0	5.8		5.90	3.17	9.07
	10	6.6 6.8	6.9		6.85	3.21	10.06
	11	6.4 6.6	6.6		6.60	3.20	9.80
	12	6.6 6.8	7.1		6.95	3.23	10.18
	13	6.7 6.9	7.1		7.00	3.23	10.23
	14	7.2 7.4	7.5		7.45	3.26	10.71
	15	7.1 7.9	7.7		7.80	3.31	11.11
	16	7.7 7.9	7.8		7.85	3.31	11.16
	17	sc.2 8.3	8.3		8.30	3.39	11.69
	18	8.5	8.5		8.50	3.44	11.94
	19	8.6	8.6		8.60	3.46	12.06
	20	8.8	8.8		8.80	3.50	12.30
	21	9.0	9.2		9.10	3.58	12.68
	22	9.4	9.3		9.35	3.66	13.01
	23	9.4	9.4		9.40	3.66	13.06
very ft.	24	9.8?	9.6		9.70?	3.74	13.44?
	25						

For measurement of P.C. see O'R III, 87.

right hand images. Images not circular.

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1912phae.proj.10550

Friday August 30, 1912.

Scale M. C4

I 28188 cont.

		sc.1	sc.2	sc.3	Mean.	Diff
Polar	10	5.5 5.7	5.4		5.55	3.34
	11	6.1 6.3	6.3		6.30	3.12
	12	6.3 6.5	6.5		6.50	3.23
	13	6.6 6.8	6.8		6.80	3.37
	14	7.3 7.5	7.4		7.45	3.07
	15	7.6 7.8	7.8		7.80	3.14
	16	7.6 7.8	7.6		7.70	3.56
wr. unit-	17	~~7.3~~	8.3		8.30	3.19
	18		8.6	8.6	8.60	3.32
	19		8.6	8.6	8.60	3.68
	20		8.8	9.0	8.90	3.69
	21		9.2	9.2	9.20	3.62
	23		9.5	9.5	9.50	3.70
	24			9.6		
	25			~~8.~~		

~~Right hand image Route drum film up.~~

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1912phae.proj.10550

Friday August 30, 1912.

Scale m. CL = 7" + 15° looped

I 28188 Cont.

Following / Preceding

	Coor. for alt. +02 sc.1	sc.2	sc.1	Mean.	Fr. Curve – Images	Fr. Image I 28939	Fr. Image I 35046	Fr. Image I 36360
Stan Seq 1	2.6 2.8		2.62	2.80				
2	3.3 3.5	3.2	3.23	3.25				
3	3.1 3.9	3.9	3.91	~~3.80~~ 4.00				
4	3.8 4.0		3.93	3.95				
5	4.6 4.8	5.0		4.90	3.14	8.04	7.96	8.17 8.55
6	sup.							8.08 8.64
7	4.5 4.7	5.1		4.90	3.14	8.04	8.63	8.55 8.64
8	5.2 5.4	5.5		5.45	3.16	8.61	8.80	8.60 8.78
9	5.8 6.0	5.7		5.85	3.16	9.01	9.23	~~9.23~~ 8.82 9.16
10	6.6 6.8	6.7		6.75	3.22	9.97	9.89	9.52 9.60
11	6.4 6.6	6.3		6.45	3.19	9.64	9.80	9.56 9.65
12	~~7.0~~ 6.8 7.0	7.1		7.05	3.23	10.28	8.99 9.	9.61 9.77
13	6.8 7.0	7.2		7.10	3.24	10.37	10.06	9.85 10.00
14	~~7.3~~ 6.8 7.3	7.4		7.45	3.27	10.72	10.74	10.39 10.30
15	7.3	7.5	7.6	7.55	3.28	10.83	11.06	10.84 10.48
16		7.8	7.7	7.75	3.31	11.06	11.14	10.79 11.05
17		8.3	8.2	8.25	3.38	11.63	11.29	11.42 11.30
18		8.4	8.6	8.50	3.44	11.94	12.15	11.94 11.64
19		8.4	8.6	8.50	3.44	11.94	12.43	12.28 11.97
20		9.1	9.2	9.15	3.63	12.78	12.68	12.76 12.39
21		8.9	8.7	8.80	3.51	12.31	12.43	12.65 12.23
22		9.3	9.3	9.30	3.64	12.94	12.74	12.94 12.51
23		9.5	9.5	9.50	3.69	13.19	12.79	13.16 12.86
24		9.8					13.65	13.26 13.29
25							13.94	— 13.50

w. Scale.

North down - Films up. left hand images.

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1912phae.proj.10550

Tuesday September 2, 1912.

Scale m

C4 = 7h +15°

I 33939 Preceding images lapsed.

Stan. Seq.		corr. for alt −02 sc. 1	sc. 2	sc. 2			
1	2.8 30			2.7 29	2.95		
2	3.7 3.9			3.5 37	3.80		
too far from centre? 3	3.7 3.9	B.		3.8 40	3.95		
4	4.5 4.7	4.1			4.70		
5	4.7 4.9	5.1			5.00	2.96	7.96
6	sup.	sup.					
7	5.5 5.7	5.4			5.55	3.08	8.63
8	5.5 5.7	5.1			5.70	3.10	8.80
9	5.7 5.9	6.2			6.05	3.18	9.23
10	6.4 6.6	6.5			6.55	3.34	9.89
11	6.4 6.6	6.4			6.50	3.30	9.80
12	6.5 6.7	6.6			6.65	3.34	8.99
13	6.5 6.7	6.7			6.70	3.36	10.06
14	6.9 7.1	7.3			7.20	3.54	10.74
15		7.4	sc. 2	7.5	7.45	3.61	11.06
16	~~7.0~~	7.5		7.5	7.50	3.64	11.14
17	7	7.6		7.6	7.60	3.69	11.29
18		8.2		8.2	8.20	3.95	12.15
19		8.3		8.5	8.40	4.03	12.43
20		8.5		8.6	8.55	4.13	12.68
21	8	8.4		8.4	8.40	4.03	12.43
22		8.5		8.7	8.60	4.14	12.74
23		8.7		8.6	8.65	4.14	12.79
24		9.2		9.3	9.25	4.40	13.65
25		9.5		9.4	9.45	4.49	13.94
26		d.					

For measures of P.C. see O'R III, 88.

North ~~down~~ up film up - left hand images.

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1912phae.proj.10550

Tuesday September 2, 1912.

Scale M. C4 = 7" + 15°

I 33939 ~~preceding~~ images.

		sc.1	sc.2		Mean	Diff
Polar Seq	10	5.6 58	5.6		5.70	3.19
	11	6.2 64	6.2		6.30	3.12
	12	6.3 65	6.4		6.45	3.28
	13	6.6 68	6.8		6.80	3.37
	14	6.7 69	7.2		7.05	3.47
	15		7.4	7.6	7.50	3.44
	16		7.7	7.5	7.60	3.66 ~~4.06~~
	17		7.7	7.8	7.75	3.74
	18		8.2	8.4	8.30	3.62
	19		8.3	8.5	8.40	3.88
	20		8.4	8.5	8.45	4.15 4.20
	21		8.7	8.6	8.65	4.17
	23		8.9	8.7	8.80	4.40
	25		9.4	9.3	9.35	4.38
	26		f	f.		

~~North down - film up - right hand images.~~

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1912phae.proj.10550

Wednesday September 4. 1912

Scale m. C4 = 7" + 15° keepsied.

I 35046

	sc.1	sc.2	sc.1	Mean	Fr. Curve	Fr. Image I 36860 Magn 115		sc.1	sc.2	sc.2	Mean Diff
Star Seq. 1	2.6	2.8	3.0	3.00			13	6.3 6.5	6.6 6.3		6.55 3.62
2	3.2	3.4	3.1	3.15			14	6.6 6.8	6.8		6.80 3.72
3	3.4	3.6	3.3	3.55	3.99	7.54	15	7.5	7.4		7.45 3.49
4	3.6	3.8	3.6	3.80	3.96	7.76	16	7.7	7.7		7.70 3.56
5	4.3	4.5	3.9	4.10	3.87	8.17 8.55	17	7.7	7.9		7.80 3.69
6	4.0	4.2	4.0	4.20	3.88	8.08 8.64	18	8.2	8.2		8.20 3.72
7	4.5	4.7	4.8		4.75	3.80 8.55 8.64	19	8.6	8.5		8.55 3.73
8	4.6	4.8	4.8		4.80	3.80 8.60 8.78	20	8.6	8.8		8.70 3.89
9	4.7	4.9	5.2		5.05	3.77 8.82 9.16	21	9.1	9.1		9.10 3.72
10	5.7	5.9	5.8		5.85	3.67 9.52 9.60	23	9.4	9.4		9.40 3.80
11	5.7	5.9	5.9		5.90	3.66 9.56 9.65	25				
12	5.8	6.0	5.9		5.95	3.66 9.61 9.77					
13	6.1	6.3	6.1		6.20	3.65 9.85 10.00					
14	6.5	6.7	6.8		6.75	3.64 10.39 10.30					
15	6.9	7.1	7.3 7.6		7.20	3.64 10.84 10.48					
16	7.7		7.1	7.2 sc 2	7.15	3.64 10.79 11.05					
w.s. 17			7.8 8.1	7.7	7.75	3.67 11.42 11.30					
18			8.2	8.3	8.25	3.69 11.94 11.64					
19			8.4	8.7	8.55	3.73 12.28 11.97					
20			8.8	9.2	9.00	3.76 12.76 12.39					
21			8.9	8.9	8.90	3.75 12.65 12.23					
22			9.2	9.1	9.15	3.79 12.94 12.51					
23			9.4	9.3	9.35	3.81 13.16 12.86					
24			9.5	9.4	9.45	3.81 13.26 13.29					
Polar 25						5.44 13.50					
10	4.8	5.0	5.2		5.10	3.79					
11	5.5	5.7	5.8		5.75	3.67					
12	6.2	6.4	6.2		6.30	3 4.43					

P.C. measures in O III: 89.

Images do not coincide well with scale.

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1912phae.proj.10550

Thursday September 5, 1912

Scale m. C4 = 7" +15°

I 36360

corr for alt. +17

		Rc.1	Rc.2	Rc.1	Mean.	Sm. Cor.	Mag.	Rc.1	Rc.2	Mean.	Diff
Stan Seq.	1	2.0 2.7	2.1 2.3	2.25				10. 3.9 4.1	4.2	4.15	4.74
	2	2.8 3.0	2.7 2.9	2.95				11 4.7 4.9	4.8	4.85	4.51
too far from c. ?	3	2.6 2.8	2.6 2.8	2.80				12 5.2 5.4	5.2	5.30	4.43
	4	2.9 3.1	2.8 3.0	3.05 2.85				13 5.3 5.5	5.6	5.55	4.62
	5	3.6 3.8 B.	3.6 3.8	3.80	4.75	8.55		14 5.8 6.0	6.2	6.10	4.42
	6	3.6 3.8	3.8 4.0	3.90	4.74	8.64		15 6.2 6.4	6.5	6.45	4.49
	7	3.7 3.9 B.	3.7 3.9	3.90	4.74	8.64		16 6.5 6.7	6.7	6.70	4.56
	8	3.8 4.0 4.1		4.05	4.73	8.78		17 6.7 6.9	7.2	7.05	4.44
	9	4.2 4.4 4.6		4.50	4.66	9.16		18	7.6	7.7	7.65	4.27
	10	4.7 4.9 5.1		5.00	4.60	9.60		19	8.1	8.0	8.05	4.23
	11	4.8 5.0 5.1		5.05	4.60	9.65		20	8.5	8.5	8.50	4.09
	12	4.9 5.1 5.3		5.20	4.57	9.77		21	8.8	8.7	8.75	4.07
	13	5.2 5.4 5.5		5.45	4.55	10.00		23	9.2 9.5	9.2	9.20	2.00
	14	5.6 5.8 5.8		5.80	4.50	10.30		25	9.5	9.5	9.50	4.23
	15	5.8 6.0 6.1		6.00 5	4.48	10.48 53						
	16	6.6 6.8 6.5		6.65	4.40	11.05						
	17	6.6 6.8 7.1		6.95	4.35	11.30						
	18	7.0 7.2 7.5		7.35	4.29	11.64						
	19	7.7	7.7 Rc.2	7.70	4.27	11.97						
	20	8.1	8.3	8.20	4.19	12.39						
	21	8.0	8.0	8.00	4.23	12.23						
	22	8.3	8.4	8.35	4.16	12.51						
	23	9.2 8.9	vs 8.6	8.75	4.11	12.86						
	24	9.2	9.3	9.25	4.04	13.29						
	25	9.5	9.6	9.55	3.95	13.50						
	26	1				F						

P.C. measures in C III: 90.

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1912phae.proj.10550

Tuesday September 10, 1912

C4 = 7h + 15

	π 36360		
	20.1 20.2		
1		Measured - see preceding page -	
2	2.8		
3			
4			
5			
6			
7	3.8		
8			
9			
10	4.8		
11	4.8		
12	4.9		
13	5.2		
14	5.7		
15	5.9		
16			
17			
18		7.4	
19			
20			
21		8.0	
22			
23			
24		9.5	

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1912phae.proj.10550

Wednesday September 11, 1912

Scale m. CT = 13h + 15

I 33780 Right-hand image - n. up - Film up. Foll.

		sc.1	sc.2	sc.1 Mean				sc.1	sc.2	sc.2 Mean	Diff.
too far.	1						10	4.7 4.9	4.9	4.90	3.99
too far from c.	2	3.3 3.5	3.5 3.3	3.50			11	5.4 5.6	5.7	5.65	3.77
too far from centre	3	3.7 3.9	3.8 3.8	3.85	4.17	8.02	12	5.7 5.9	5.9	5.90	3.83
	4	3.5 3.7	3.7 3.5	3.60			13	6.4 6.6	6.7	6.65	3.52
	5	3.7 3.9	4.0	3.95	4.13	8.08	14	6.5 6.7	6.8	6.75	3.77
	6	3.9 4.1	4.5	4.30	4.05	8.35	15	6.8 7.0	7.2	7.10	3.84
" " ?	7	4.6 4.8	4.8	4.80	3.93	8.73	16		7.4	7.1	7.55	3.71
	8	4 5.9 5.1	5.3	5.20	3.85	9.05	17		7.8	7.7	7.75	3.74
" " ?	9	5.3 5.5	5.5	5.50	3.80	9.30	18		8.2	8.1	8.15	3.77
	10	5.5 5.7	5.7	5.70	3.78	9.48	19		8.4	8.4	8.40	3.88
	11	5.6 5.8	5.7	5.75	3.76	9.51	20		8.6	8.6	8.60	3.99
	12	5.8 6.0	5.9	5.95	3.75	9.70	21		8.8	8.8	8.80	4.02
	13	6.3 6.5	6.5	6.50	3.71	10.21	23		9.1	9.1	9.10	4.10
	14	6.4 6.6	6.7	6.65	3.71	10.36	25		9.5	9.6	9.55	4.18
	15	6.6 6.8	6.9	6.85	3.71	10.56	26		3	1		
	16	6.6 6.8	7.2	7.00	3.71	10.71						
	17		7.4	sc.2 7.4	7.40	3.74	11.14					
	18		7.6	7.6	7.60	3.75	11.35					
	19		8.2	8.2	8.20	3.85	12.05					
	20		8.3	8.2	8.25	3.85	12.10					
	21		8.6	8.6	8.60	3.93	12.53					
	22		8.9	8.8	8.85	3.98	12.83					
	23		9.3	9.1	9.20	4.11	13.31					
	24		9.5	9.5	9.50	4.17	13.67					
	25		9.6	9.6	9.65	4.22	13.87					

For Measurement of P.C. see O'R. III, 91.

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1912phae.proj.10550

Wednesday September 11, 1912.

Scale m-

C1 = 13h +15°

I 33780 cont. Left-hand images - n. up - Film up. Prec.

	sc.1	sc.2	sc.1	Mean	From curve	From image 1.17	Magn	
too far from c.	1							
	2	3.4 3.6		3.4 36	3.60	4.17		
" "	3	3.6 3.8		3.7 39	3.85	4.17	8.02	8.02 8.02
	4	3.4 3.6		3.5 37	3.45			
	5	3.8 4.0	B.	3.9 41	4.05 3.85	4.13	8.18	8.08 8.13
	6	4.2 4.4	4.3		4.35	4.03	8.38	8.35 8.36
	7	4.1 4.9	4.9		4.90	3.91	8.81	8.73 8.77
	8	4.8 5.0	5.4		5.20	3.85	9.05	9.05 9.05
" "	9	5.2 5.4	5.5		5.45	3.82	9.27	9.30 9.28
	10	5.5 5.7	5.6		5.65	3.78	9.43	9.48 9.46
	11	5.5 5.7	5.1		5.70	3.77	9.47	9.51 9.49
	12	5.1 5.9	5.1		5.80	3.76	9.56	9.70 9.63
	13	6.4 6.6	6.5		6.55	3.72	10.27	10.21 10.24
	14	6.4 6.6	6.6		6.60	3.71	10.31	10.36 10.34
w.s.	15	6.5 6.7	6.9 6.7		6.80	3.71	10.51	10.56 10.54
	16	6.6 6.8	6.8		6.80	3.71	10.51	10.71 10.61
	17		7.3	7.4 sc.2	7.35	3.74	11.09	11.14 11.12
	18		7.4	7.4	7.40	3.74	11.14	11.35 11.24
	19		7.8	7.7	7.75	3.78	11.53	12.05 11.79
	20	"	8.7	8.2	8.20	3.85	12.05	12.10 12.08
	21		8.4	8.5	8.45	3.89	12.34	12.53 12.44
	22		8.6	8.7	8.65	3.94	12.59	12.83 12.72
	23		8.9	8.8	8.85	3.99	12.84	13.31 13.08
	24		9.4 def.	def.				13.67
	25		9.5	9.5	9.50	4.18	13.68	13.87 13.88

For mikrom. of P.C. see O'R. III, 91.

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1912phae.proj.10550

Saturday September 14, 1912.

Scale m. C 10 =

I 34364 copied.

Bor. for alt. +01

	sc.1	sc.2	sc.1	Mean	Tr. Curve	Magn.
1	2.1 2.9		2.6	2.85	3.65	6.50
2	3.3 3.5		3.7	3.60	3.48	7.08
3	3.5 3.7	B.	3.3	3.60	3.48	7.08
4	3.8 4.0	B.	3.6	3.90	3.46	7.36
5	4.1 4.9	4.8		4.85	3.44	8.29
6	4.8 5.0	4.8		4.90	3.44	8.34
7	4.2 4.7	4.7		4.55	3.44	7.99
8	5.4 5.6	5.3		5.45	3.45	8.90
9	5.4 5.6	5.6		5.60	3.45	9.05
10	5.8 6.0	5.1		5.85	3.46	9.31
11	6.2 6.4	6.8		6.35	3.50	9.85
12	6.5 6.7	6.6		6.65	3.51	10.16
13	6.6 6.8	7.1		6.95	3.57	10.52
14	6.8 7.0	7.2		7.10	3.58	10.68
15	7.0 7.2	7.4	sc.2	7.30	3.61	10.91
16		7.7	7.7	7.70	3.70	11.40
17		8.0	8.1	8.05	3.78	11.83
18		8.4	8.4	8.40	3.98	12.38
19		8.5	8.6	8.55	4.10	12.65
20		8.6	8.8	8.70	4.16	12.86
21		9.2	9.2	9.20	4.50	13.70
22		9.3	9.4	9.35		
23		ns.?				

For meas. of P.C. see O'R III, 92.

See next page for plot.

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1912phae.proj.10550

~~I 3473~~

Saturday Sept. 14, 1912.

Salem

C10 =

I 34364 Comt.

		pr.1	pr.2		Mean	Diff
5	1	2.7	2.9		~~2.80~~ 2.9	3.59
8	2	4.1	4.9	4.6	4.75	3.35
9	3	4.8	5.0	5.2	5.10	3.60
10	4	5.2	5.4	5.5	5.45	3.44
11	5	5.8	6.0	5.8	5.90	3.52
12	6	6.2	6.4	6.2	6.30	3.43
13	7	6.4	6.6	6.1	6.65	3.52
14	8	6.6	6.8	6.8	6.80	3.72
15	9		7.3	7.2	7.25	3.69
16	10	~~7.5~~	7.5	7.8	7.65	3.61
17	11		7.8	7.8	7.80	3.69
18	12		8.2	8.2	8.20	3.72
19	1		8.5	8.3	8.40	3.88
20			8.4	8.6	8.50	4.09
21			8.6	8.8	8.70	4.12
23			8.9	8.8	8.85	4.35
25			9.3	9.2	9.25	4.48

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1912phae.proj.10550

Monday September 16, 1912

Scale m.

C 10 = 19h + 15°

I 34838

	sc 1	sc 2
Polar 5		
6	2.7	
Images along. 8	4.7?	
" " 9	4.1	
10	4.8	
11	5.6	
12	5.8	
13	6.5	
14	6.6	
15	1.0	
16	1.6	
17		
18		
19		8.5
20		
21		8.9
23		9.3
25		

Not I 34838 wrong fol. in cover.
=

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1912phae.proj.10550

Monday. September 16, 1912.

Scale m. C10=19h+15°

I 34838

		Sc.1	Sc.2		Mean.	Diff.
Polar	5	bicelong.				
Image elong.	8	4.6	4.8	4.9	4.85	3.25
" "	9	4.8	5.0	5.1	5.05	3.65
	10	4.8	5.0	5.3	5.15	3.74
	11	5.6	5.8	5.9	5.75	3.67
	12	5.8	6.0	6.2	6.10	3.63
	13	6.4	6.6	6.7	6.65	3.52
Image defective	14	~~6.6~~		~~6.7~~		
	15	7.0	7.2	7.4	7.30	3.64
	16			7.6	7.60	3.66
	17			7.8	7.80	3.69
	18		8.3	8.4	8.35	3.57
	19		8.5	8.5	8.50	3.78
	20		8.5	8.5	8.50	4.09
	21		8.9	9.0	8.95	3.87
	23		9.1	9.2	9.15	4.05
	25		9.4	9.4	9.40	4.33
	26		f.	f		

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1912phae.proj.10550

Monday, September 16, 1912.

Scale M. C10 = 19h +15°.

I 34838 cont.

		pc.1	pc.2	pc.1	Means	Frame Curve	Magn.	See Image 119 I 34364
Stan Seq.	1	2.6 2.8		2.5	2.75			6.50
	2	2.9 3.1		3.2	3.25	↓		7.08
	3	2.8 3.0		2.8	3.00			7.08
	4	3.4 3.6		3.5	3.65			7.36
Error quint.	5	4.9 4.1		3.9	4.10	3.59	7.69	8.29
	6	3.8 4.0	B.	3.7	3.95	3.59	7.54	8.34
7 is bri'er stand	7	[illegible] w.s. 3.6		3.5	3.75	3.59	7.34	7.99
	8	4.4 4.6	4.1		4.65	3.58	8.23	8.90
	9	5.6 5.8	5.1		5.75	3.56	9.31	9.05
	10	5.6 5.8	5.1		5.75	3.56	9.31	9.31
	11	6.2 6.4	6.4		6.40	3.57	9.97	9.85
	12	6.4 6.6	6.6		6.60	3.58	10.18	10.16
	13	6.6 6.8	7.3		7.05	3.60	10.65	10.52
	14	7.0 7.2	7.5	pc.2	7.35	3.65	11.00	10.68
	15		7.4	7.4	7.40	3.65	11.05	10.91
	16		7.7	7.8	7.75	3.70	11.45	11.40
	17		8.1	8.2	8.15	3.77 ~~3.86~~	11.92 ~~12.01~~	11.83
	18		8.6	8.4	8.50	3.86 ~~4.05~~	12.36 ~~12.55~~	12.38
	19		8.8	8.9	8.85	3.93 ~~4.28~~	12.78 ~~13.13~~	12.65
	20		9.0 9.3	9.1	9.05	3.99 ~~4.45~~	13.04 ~~13.50~~	12.86
ver. star marked	21		~~7.7~~	9.4	9.35	4.10 ~~4.74~~	13.45 ~~14.09~~	13.70
	22		9.5	9.4	9.45	4.15 ~~4.74~~	13.60 ~~14.19~~	
hazy edge.	23							

For meas. of P.C. see O'R III, 93.

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1912phae.proj.10550

Saturday September 21, 1912

Scale m. Al. See Bk III : 82

I 28046 Following images. N up - right h. image.

	Sc.1	Sc.2	Sc.1			
1	3.1 33		3.1 33	3.30	3.99	7.24 9
2	3.2 34		3.3 34	3.40	3.96	7.41 36
too far from c.? 3	3.0 32		3.3 35	3.35	3.98	7.48 33
4	3.4 36		3.6 38	3.70	3.90	7.65 6
too far from centre? 5	4.4 46	4.6		4.60	3.77	8.44 3
6	4.6 48	4.7		4.75	3.72	8.47
7	4.4 46	4.8		4.70	3.71 3	8.56 43
8	4.7 49	4.7		4.80	3.71	8.51
9	4.8 50	5.2		5.10	3.65	8.85 7
I.m. not circular or diff. 10	5.7 59	5.9		5.90	3.53	9.53 4
11	5.8 60	5.8		5.90	3.51 8	9.66 43
12	6.4 66	6.5		6.55	3.46 8	10.11 53
13	6.5 67	6.5		6.60	3.46	10.11 56
14		7.3	7.3 Sc.2.	7.30	3.43	10.73
15		7.4	7.4	7.40	3.42	10.87 2
16		7.5	7.6	7.55	3.42	10.92 7
17		7.7	7.7	7.70	3.41	11.91
18		7.8	7.8	7.80	3.44	11.44 2
19		7.9	7.8	7.85	3.44	11.34 29
20		8.4	8.3	8.35	3.48	11.93 8
21		8.5	8.5	8.50	3.48	11.98
22		8.7	8.6	8.65	3.49	12.09 14
23		8.8	8.9	8.85	3.56 12	12.74 37
24		9.3	9.3	9.30	3.58	12.88
25		9.7	9.5	9.60	3.60 1	13.15 21
26		9.5	9.6	9.55	3.61	13.16

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1912phae..proj..10550

Saturday September 21, 1912.

Scale m

I 28046 cont.

	sc 1	sc. 2	sc. 1		
Polar → 5	2.5 2.7		2.4 (sc 2) 2.6	2.65	3.74
8	3.8 4.0		4.0	4.00	4.10
9	4.7 4.9		5.2	5.05	3.65
10	5.1 5.3		5.2	5.25	3.64
11	5.7 5.9		5.7	5.80	3.62
12	5.8 6.0		5.8	5.90	3.83
13	6.7 6.9		6.7	6.80	3.37
14	6.9 7.1	1.4 (2)	7.2	7.15	3.37
15		7.6	7.6	7.60	3.34
16		7.7	7.7	7.70	3.56
17		8.1	8.2	8.15	3.34
18		8.5	8.4	8.45	3.47
19		8.6	8.6	8.60	3.68
20		8.9	9.1	9.00	3.59
21		9.3	9.3	9.30	3.52
22		9.5	9.4	9.45	3.60
23		9.5	9.5	9.50	3.70

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1912phae.proj.10550

Saturday September 21, 1912.

Scale m. A1 = 4+15 See Also Bk 3 : 82

I 28046 cont

Preceding images. (l.-h. images film-up.)

	Sc.1	Sc.2	Sc.1	Mean.		Magn.		Copied		This is I 32132.
1	3.1	3.3		3.0 32	3.25	3.39	7.24	3.39	7.24	7.44
2	3.2	3.4		3.3 35	3.45	3.36	7.41	3.36	7.41	7.44
3	3.3	3.5	13	3.3 35	3.50	3.38	7.48	3.35	7.45	7.21
4	3.6	3.8	13 4.8 w.s.	3.5 37	3.75	3.30	7.65	3.39	7.64	7.44
5	4.6	4.8	4.6		4.70	3.74	8.44	3.73	8.43	8.32
6	4.6	4.8	4.7		4.75	3.72	8.47	3.72	8.47	8.57
7	4.6	4.8	4.9		4.85	3.71	8.56	3.71	8.56	8.48
8	4.7	4.9	4.7		4.80	3.71	8.51	3.71	8.51	8.45
9	5.1	5.3	5.2		5.20	3.65	8.85	3.64	8.84	8.70
10	5.8	6.0	6.0		6.00	3.53	9.53	3.54	9.54	9.69
11	6.2	6.4	5.9		6.15	3.51	9.66	3.52	9.67	9.47
12	6.6	6.8	6.5		6.65	3.46	10.11	3.46	10.11	9.98
13	6.5	6.7	6.6		6.65	3.46	10.11	3.46	10.11	10.02
14	6.9	7.1	7.4	7.4	7.30	3.43	10.73	3.43	10.73	10.33
15	7.4		7.4	7.5	7.45	3.42	10.87	3.42	10.87	10.43
16	7.5		7.4 7.6	7.6	7.50	3.42	10.92	3.41	10.91	10.91
17			7.8	7.6	7.60	3.41	11.01	3.42	11.02	11.01
18			7.8	8.2	8.00	3.44	11.47	3.44	11.44	11.17
19			7.9	7.9	7.90	3.44	11.34	3.43	11.33	11.22
20	8.5		8.5	8.4	8.45	3.48	11.93	3.48	11.93	11.83
21			8.4	8.6	8.50	3.48	11.98	3.48	11.98	11.89
22			8.6	8.6	8.60	3.49	12.09	3.49	12.09	12.23
23			9.1	9.2	9.15	3.56	12.71	3.56	12.71	12.64
24			9.3	9.3	9.30	3.58	12.88	3.57	12.87	12.93
25			9.6	9.5	9.55	3.60	13.15	3.60	13.15	13.23
26			9.5	9.6	9.55	3.61	13.16	3.60	13.15	

Entered on wrong page - see page 124 for these magnitudes

for vis. meas.

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1912phec.proj.10550

Tuesday September 24, 1912

Scale M. $A_1 = 4+75$

I 32132

Following
North up. right-hand image. (3 down up.)

Stan. Seq.

	sc.1	sc.2	sc.1			
1	3.3 3.5		3.3 3.5	3.50	3.94	7.44
2	3.3 3.5		3.3 3.5	3.50	3.94	7.44
3	3.1 3.3		3.0 3.2	3.25	3.96	7.21
4	~~4.5~~ 3.9 3.8 4		3.4 3.2	3.50	3.94	7.44
5	4.5 4.7 4.4			4.55	3.77	8.32
6	4.6 4.8 4.9			4.85	3.72	8.57
7	4.6 4.8 4.7			4.75	3.73	8.48
8	4.6 4.8 4.6			4.70	3.75	8.45
9	4.7 4.9 5.1			5.00	3.70	8.70
10	5.9 6.1 6.3			6.20	3.49	9.69
11	5.7 5.9 6.0			5.95	3.52	9.47
12	6.4 6.6 6.5			6.55	3.43	9.98
13	6.4 6.6 6.6			6.60	3.42	10.02
14	6.6 6.8 7.1			6.95	3.38	10.33
15	6.7 6.9 7.2			7.05	3.38	10.43
16		7.5	7.6 sc.2	7.55	3.36	10.91
17		7.6	7.7	7.65	3.36	11.01
18		7.7	7.9	7.80	3.37	11.17
19		7.9	7.8	7.85	3.37	11.22
20		8.4	8.4	8.40	3.43	11.83
21		8.5	8.4	8.45	3.44	11.89
22		8.7	8.8	8.75	3.48	12.23
23		9.1	9.1	9.10	3.54	12.64
24		9.4	9.3	9.35	3.58	12.93
25		9.6	9.6	9.60	3.63	13.23

See also Bk III : 83

Stars 1 and 5 difficult to measure.

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1912phae.proj.10550

Tuesday Sept. 24, 1912.

Scale m. A1=4+75

I 32|32 cont.

		sc.1	sc.2	sc.1		
Polar Seq.	5	2.2	2.4	2.23	2.35	4.04
	8	4.2	4.4 4.5		4.45	3.65
	9	4.6	4.8 5.1		4.95	3.75
	10	4.6	4.8 4.9		4.85	4.09
	11	5.6	5.8 5.7		5.75	3.67
	12	6.2	6.4 ~~5.~~ 6.2 w.s.		6.30	3.43
	13	6.6	6.8 6.6		6.70	3.47
	14	6.9	7.1 7.3	##	7.20	3.32
	15		7.6	7.1	7.65	3.29
	16		7.8	7.8	7.80	3.46
	17		8.3	8.2	8.25	3.24
	18		8.5	8.6	8.55	3.37
	19		8.6	8.8	8.70	3.58
	20		8.9	9.0	8.95	3.64
meas. 22. here.	21		9.~~4~~ 3	9.4	9.35	3.47
	22		9.4	9.4	9.40	3.65
	23		9.5	9.6	9.55	3.65

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1912phae.proj.10550

Tuesday Sept. 24, 1912.

Scale m. $A_1 = 4 + 1.5^m$

Preceding Novae plts - l.h. images.

I 32132 cont.

	sc.1	sc.2	sc.1			
1	3.3 3.5		3.3 3.5	3.50	3.93	7.43
2	3.3 3.5		3.3 3.5	3.50	3.93	7.43
3	3.2 3.4		3.2 3.4	3.40	3.94	7.34
4	3.5 3.7		3.5 3.7	3.70	3.90	7.60
5	4.6 4.8	4.5		4.65	3.76	8.41
6	4.7 4.9	4.9		4.90	3.71	8.61
7	4.8 5.0	5.2		5.10	3.67	8.77
8	4.5 4.7	4.4		4.55	3.78	8.33
9	4.8 5.0	5.3		5.15	3.66	8.81
10	6.3 6.5	6.4		6.45	3.45	9.90
11	6.3 6.5	6.4		6.45	3.45	9.90
12	6.6 6.8	6.7		6.75	3.40	10.15
13	6.5 6.7	6.6		6.65	3.42	10.07
14	6.7 6.9	7.3		7.10	3.38	10.48
15	6.7 6.9	7.4		7.15	3.38	10.53
			sc.2			
16		7.6	7.6	7.60	3.36	10.96
17		7.7	7.7	7.70	3.36	1106
18		7.9	7.8	7.85	3.37	1122
19		8.2	8.1	8.15	3.39	11.54
20		8.4	8.4	8.40	3.43	1183
21		8.5	8.5	8.50	3.45	11.95
22		8.7	8.9 ~~9.0~~	8.80	3.49	1229
23		9.1	9.1	9.10	3.54	1264
24		9.4	9.2	9.30	3.57	1287
25		9.5	9.5	9.50	3.60	13.10
26						

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1912phae.proj.10550

Saturday September 29, 1912

Scale m

$a_1 = 4 + 75$

I 34839 1'

		rc 1	rc 2	rc 1			
Stars. Seq.	1	2.1 2.9 ?		2.8 3.0	2.95	3.93	6.88
	2	2.1 2.9		2.8 3.0	2.95	3.93	6.88
too far from c.?	3	2.1 2.9		2.9 3.1	3.00	3.92	6.92
	4	2.8 3.0		2.9 3.1	3.05	3.92	6.97
too far from cente	5				—	—	
In elong. 1 mm. from	6	3.9 4.1		3.9 4.1	4.10	3.89	7.99
	7	3.9 4.1		4.1 4.3	4.20	3.89	8.09
	8	3.9 4.1	4.0		4.05	3.90	7.95
	9	4.2 4.4	4.5		4.45	3.87	8.32
	10	5.2 5.4	5.5		5.45	3.83	9.28
	11	5.2 5.4	5.5		5.45	3.83	9.28
	12	5.6 5.8	5.9		5.85	3.77	9.62
	13	5.6 5.8	5.7		5.75	3.78	9.53
	14	6.3 6.5	6.6		6.55	3.68	10.23
	15	6.4 6.6	6.7		6.65	3.67	10.32
	16	6.6 6.8	7.1		6.95	3.63	10.58
	17	6.9 7.1	7.4		7.25	3.59	10.84
	18		7.6	7.6 rc 2	7.60	3.58	11.18
	19		7.6	7.6	7.60	3.58	11.18
	20		8.2	8.3	8.25	3.70	11.95
	21		8.3	8.3	8.30	3.71	12.01
	22		8.5	8.6	8.55	3.77	12.32
	23		8.7	8.8	8.75	3.82	12.57
	24		9.0	8.9	8.95	3.88	12.83
	25		9.3	9.3	9.30	4.01	13.31
	26		9.6	9.6	9.60	?	?

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For meas. of P. C. see O'R III: 84

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1912phae.proj.10550

Saturday September 29, 1912

Scale m a 1=4+75°

I 34839 cont.

		sc.1	sc.2	sc1		
Polar Seq.	5	25 27		23	2.60	3.79
	8	3.8 40	4.2		4.10	4.00
	9	4.6 43	5.0		4.90	3.80
	10	4.7 49	5.1		5.00	3.89
	11	5.5 57	5.6		5.65	3.77
	12	5.7 59	5.7		5.80	3.93
	13	6.2 64	6.4		6.40	3.77
	14	6.6 68	6.9		6.85	3.67
	15	t.f.	7.4	sc.2	7.48	3.54
	16		7.7	7.7	7.70	3.56
	17		7.8	78	7.80	3.69
	18		8.4	8.2	8.30	3.62
	19		8.6	8.4	8.50	3.78
	20		8.7	8.6	8.65	3.94
double?	21		almost sup.			
	22		9.1	9.0	9.05	4.00
	23		9.3	9.3	9.30	3.90

Images of 5, 8 and 9 are elongated - diff. to measure.

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1912phae.proj.10550

Friday Oct. 4. 1912.

$\alpha_2 = 12^h + 75^\circ$

Scale m.

I 28383 North down, right-hand images. (film up).

sc. 1 sc 2

1
2
3
4
5
6
7
8
9
10 5.6
11
12
13 f. 7.4
14 6.7
15
16
17
18 ~~8.5~~ 8.3
19
20
21
22
23
24

Interrupted – too late to begin over.

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1912phae..proj..10550

Monday October 7, 1912.

Scale m. $\alpha_2 = 12^h + 75°$

I 28383

Following images. (S down. r. h. image)

		Sc.1	Sc.2	Sc.1	P.C. Sc.2	P.C. Sc.2		
	1	3.7	3.9	3.85 3.6 3.8	8.5	8.4	8.45	Copied.
too far from c.	2				8.6	8.6	8.60	Not reduced
" "	3				8.6	8.6	8.60	
" "	4				8.1	8.5	8.60	expressed by
" "	5				9.3	9.3	9.30	
" "	6				9.3	9.2	9.25	measures in RA 13.94
" "	7	~~4.6~~			9.5	9.6	9.55	
" "	8				9.6	9.6	9.60	
scratch near image	9	5.6	5.8	5.7 3.95 5.75	9.6 — 8.80	9.6	9.60	
" "	10	~~5.6~~			?	—		
" "	11				n.s.	—		
	12	6.6	6.8		~~6.80~~ 6.80	2.94	9.74	
	13	6.9	7.1	7.4	7.25	2.95	10.20	
	14			7.4 Sc.2 7.6	7.50	2.97	10.47	
	15			7.5 7.6	7.55	2.98	10.53	
	16			7.7 7.7	7.70	3.00	10.70	
	17			7.8 7.8	7.80	3.02	10.82	
	18			8.4 8.5	8.45	3.18	11.63	
	19			8.1 8.7	8.70	3.26	11.96	
	20			8.6 8.4	8.50	3.20	11.70	
	21			~~9.3~~ 8.1 8.8	8.75	3.28	12.03	
	22			9.3 9.2	9.25	3.45	12.70	
	23			9.5 9.5	9.50	3.54	13.04	
	24			9.7 9.6	9.65	3.59	13.24	
	25			? ?				

Images on this plate are good.

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1912phae.proj.10550

Monday October 7, 1912.

Scale m. $\alpha_2 = 12^h + 75$

T 28383 cont.

	Polar Seq.	RC.1	RC.2		P.C.	PC.2			
5 to 10					8.3	8.2	8.25	-.186	too
8					9.2	9.3	9.25	-.115	
9					9.4	9.5	9.45	-.075	
10		5.6 5.8	5.7		9.6	9.6	9.60	Mean 0.71 5.75	3.14
11		6.2 6.4	6.6		n.s.			6.50	2.92
12		6.5 6.7	6.1					6.70	3.03
13		6.9 7.1	7.4					7.25	2.92
14			7.6	7.6				7.60	2.92
15			7.7	7.8				7.75	3.19
16			8.2	8.3				8.25	3.01
17			8.4	8.4				8.40	3.09
18			8.6	8.6				8.60	3.32
19			8.7	8.6				8.65	3.63
20			9.2	9.1				9.15	3.44
21			9.4	9.3				9.35	3.47
22			9.6	9.5				9.55	3.50
23			9.6	9.6				9.60	3.60

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Monday October 7, 1912.

Scale M. $\alpha_2 = 12^h + 75$

I 28383 cont

Preceding ~~Following~~ images (l.h. - N. down)

Copied

		sc.1	sc.2	sc.1	P.C.	P.C.		
~~Stan Seq~~	1	3.7 3.9		3.7 3.9	8.6	8.5	8.55	Not reduced
too far from centre	2				8.7	8.6	8.65	
" " "	3				8.6	8.7	8.65	Suppressed
" " "	4				8.7	8.6	8.65	
" " "	5				9.3	9.3	9.30	by measures
" " "	6				9.3	9.4	9.35	in BK 3:94
" " "	7				9.6	9.6	9.60	
" " "	8				9.6	9.6	9.60	
	9	5.6 5.8	5.9	5.85	9.1	9.1	9.10	
" " "	10							
" " "	11							
	12	6.7 6.9	7.2	sc.2 7.05		2.94	9.99	
	13		7.5	7.4	7.45	2.97	10.42	
	14		7.6	7.5	7.55	2.98	10.53	
	15		7.7	7.7	7.70	3.00	10.70	
	16		7.8	7.8	7.80	3.02	10.82	
	17		7.8	7.7	7.75	3.01	10.76	
	18		8.4	8.4	8.40	3.18	11.58	
wr. unit	19		8.6	8.8	8.70	3.26	11.96	
	20		8.5	8.4	8.45	3.19	11.64	
	21		8.7	8.6	8.70	3.26	11.96	
	22		9.3	9.4	9.35	3.49	12.84	
	23		9.6	9.5	9.55	3.55	13.10	
	24		9.6	9.6	9.60	3.58	13.18	
	25							

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1912phae.proj.10550

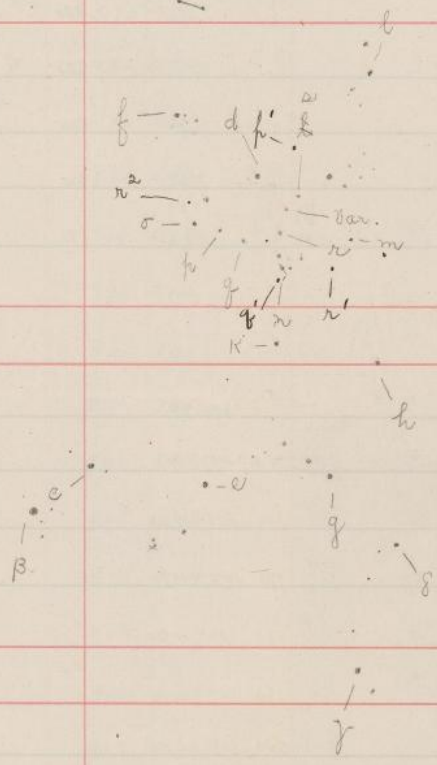
Thursday. October 10, 1912.

Scale M Measures of Comparison Stars for Var. 22 2924-7+U 2898 4.

marked on I 18890.

I 27727.

	Sc.1	Sc.2	Sc.2	P.C.	
a	4.0	4.2	4.2	4.20	00
b	8.8 5.0	5.3		5.15	±1
c	5.6	5.8	5.7	5.75	01
d	5.8	6.0	6.4	6.20	±2
e	6.6	6.8	6.8	6.80	00
f	6.8	7.0	7.4	7.20	±2
g		7.6	7.8	7.70	±1
h		8.5	8.2	8.35	±2
k		8.6	8.6	8.60	00
l		9.4	9.2	9.30	±1
m		9.6	9.6	9.60	00
n		9.9	9.9	9.90	00
o					
p					
q					
r					
s					
Var.		9.4	9.3		



	Sc.1	Sc.2	Sc.2	P.C.	
α	6.6	6.8	7.2	7.00	±2
β		8.9	8.8	8.85	±1
γ		~~9.7~~ defect very near P.C.			
δ		10.1		10.10	±1
ε	~~8.4~~	8.7	8.6	8.65	±1
ζ	~~8.9~~	8.9	9.2	9.05	±2
η		9.3	9.3	9.30	00
θ		~~9.4~~	9.4	9.45	01

defective

P.C. very ft

f', g', r' & r² were added by Miss Leavitt Nov. 1, 1912.

see pages 152, 153 of this Bk, for measures of faint stars.

Images on this plate are large and faint.

Measure only P.C. of Greek letters. Per H.S.L. Oct. 10, 1912.

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1912phae.proj.10550

Saturday October 12, 1912

Scale m: Measures of C.S. for Var. 222924 = HV 2894.

± 8970.

	sc 1	sc 2.	sc 1		
a	3.9	4.1	13. 4.1	3.9	4.10 3.90 00
b	4.5 5.2	4.7	5.4		4.78 a
c	4.6	4.8	5.1		4.95 ± 1
d	5.2	5.4	5.5		5.45 01
e	5.5	5.7	5.6		5.65 10
f	5.8	6.0	5.8		5.90 1 ±
g	6.3	6.5	6.7		6.60 ± 1
h	6.3	6.5	6.6		6.55 ± 0
k	6.8	7.0	6.9		6.95 0 ±
l	tf.	7.5	sc. 2 7.6		7.55 ± 0
m		7.7	7.7		7.70 00
n		8.2	8.3		8.25 01
o		8.8 6	8.6		8.60 00
p		8.8	8.9		8.85 01
q		9.5	9.5		9.50 00
Var	5.4	5.6			

	Prin. comp.	sc 2	sc 2		
α	5.4 5.6	sc 2 5.7			5.65 01
β		7.6	7.7		7.65 01
γ	5.4	8.1	8.1		8.70 00
δ		9.2	9.0		9.10 1 ±
ε	6.1	6.9	7.2		7.05 ± 2
ζ		7.4	7.6		7.50 ± 1
η		7.5	7.4		7.45 1 0
θ		7.1	7.8		7.75 ± 0

(meas. d here)

(should be α.)

Day dark - light poor.

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1912phae.proj.10550

October

Wednesday, 16, 1912

Scale M. Measures of C.S. for Var. 222924 HR 8947 - cont. 98

I. 7356

	sc.1	sc.2	sc.2	J7356		J27727	J8977	J8970	Mean	Res.			
a	4.3	4.5	4.5	4.50	00	4.20	4.10 4.10	4.10	4.22	28	02	12	12
b	4.7	4.9	4.9	4.90	00	5.15	4.70 4.75	4.80	4.89	01	26	19	09
c	5.4	5.6	5.4	5.50	11	5.75	4.95 4.98	5.00	5.30	20	45	35	30
d	5.7	5.9	5.8	5.85	10	6.20	5.45 5.50	5.55	5.76	09	44	31	21
e	6.3	6.5	6.4	6.45	10	6.80	5.65 5.68	5.70	6.15	30	65	50	45
f	6.4	6.6	6.8	6.70	11	7.20	5.90 5.85	5.80	6.40	30	80	50	60
g	6.6	6.8	7.0	6.90	11	7.70	6.60 6.60	6.60	6.95	05	75	35	35
h	6.7	6.9	7.3	7.10	22	8.35	6.55 6.58	6.60	7.15	05	120	60	55
k		7.6	7.6	7.60	00	8.60	6.95 6.92	6.90	7.51	09	109	56	61
l		8.4	8.4	8.40	00	9.30	7.55 7.55	7.55	8.20	20	110	65	65
m		8.8	8.7	8.75	01	9.60	7.70 7.72	7.75	8.45	30	115	75	70
n		9.4	9.4	9.40	00	9.90	8.25 8.28	8.30	8.96	44	94	71	66
o		9.7	9.7	9.70 (30)	00		8.60 (30) 8.62	8.65 (25)	8.98 (9.25)	72		38	33
p							8.85 (25) 8.88	8.80 (15)	8.82 (9.48)			03	02
q							9.50 (65) 9.45	9.40 (60)	9.45 (10.10)			05	05
r													
s													
α	5.2	5.4	6.3	5.85	45	7.00	5.65 5.62	5.60	6.02	17	98	37	42
β		8.5	8.4	8.45	10	8.85	7.65 7.65	7.65	8.15	30	70	50	50
γ		n.s.	n.s.				8.70 (105) 8.66	8.60 (95)	8.65 (9.05)			05	05
δ		n.s.	n.s.			10.10 (6.35)	9.10 (6.3) 9.10		9.60 (9.50)		58	50	
ε		8.2	8.2	8.20	00	8.65	7.05 7.08	7.10	7.75	45	90	70	65
ζ		8.4	8.4	8.40	00	9.05	7.50 7.45	7.40	8.09	31	96	59	69
η		8.7	8.7	8.70	00	9.30	7.45 7.50	7.55	8.25	45	105	80	70
θ		8.8	8.8	8.80	00	9.45	7.75 7.80	7.85	8.46	34	99	71	61
Var.		9.5	9.6	9.55	10								

Meas. also for Pr. Companions.

meas. also for Pr.

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1912phaa.proj.10550

Wednesday October 16, 1912.

Scale m Measures of C.S. for Var. 222924. NV 2498 + cont.

* I 8970.

	sc.1	sc.2	sc.1	sc.2	sc2		
a	3.9	4.1				4.10	a
b	4.6	4.8	4.8			4.80	00
c	4.8	5.0	5.0			5.00	00
d	5.4	5.6	5.5			5.55	01
e	5.6	5.8	5.6			5.70	11
f	5.7	5.9	5.7			5.80	11
g	6.4	6.6	6.6			6.60	00
h	6.4	6.6	6.6			6.60	00
k	6.7	6.9	6.9			6.90	00
meas. k.	~~6.7~~	~~6.9~~		l tf.	7.6	7.5	7.55 01
m	tf	7.6	7.5	m	7.8	7.7	7.75 01
n		7.8	7.7	n	8.4	8.2	8.30 11
o		8.4	8.2	o.	8.7	8.6	8.65 10
p		8.7	8.6	p	8.9	8.7	8.80 11
q		8		q.	9.4	9.4	9.40 00
r							
s							
Var							
α	5.4	5.6	5.6	~~5.6~~		5.60	00
β		7.7	7.6			7.65	10
γ		8.6	8.6			8.60	00
δ							
ε		6.8	7.4			7.10	± 3
ζ		7.4	7.4			7.40	00
η		7.5	7.6			7.55	10
θ.		7.9	7.8			7.85	10

* Only 3 I plates ∴ I 8970 was repeated

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1912phae.proj.10550

Friday October 18, 1912

Scale M. Measures of C.S. for Var. 22924 = 1V 2894 cont.

Cc 5446.

	sc.1	sc.2	sc.3			
a	6.5	6.7	6.5	6.60	1	1
b	6.6	6.8	6.9	6.85	0	1
c	6.7	6.9	7.2	7.05	1	2
d	~~6.6~~	7.6	7.6	7.60	0	0
e		7.8	7.8	7.80	0	0
f		8.3	8.3	8.30	0	0
g	8	8.5	8.6	8.55	1	0
h		8.6	8.6	8.60	0	0
k		9.1	9.2	9.15	1	0
l		9.5	9.5	9.50	0	0
m		9.6	9.6	9.60	0	0
n		~~7.~~				
o						
Var.		8.3	8.3			

too bri to mea. α B.

β	~~5.4~~	4.6	~~4.5~~	4.55	0	1
γ	5.4	5.6	5.7	5.65	0	1
δ	6.2	6.4	6.3	6.35	0	1
ε	4.3	4.5	4.3	4.40	1	1
ζ	4.8	5.0	5.2	5.10	1	1
η	4.9	4.9	~~5.1~~	5.00	1	1
θ	4.8	5.0	5.2	5.10	1	1

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1912phae.proj.10550

Friday October 18, 1912.

Scale m. Measures of C.S. for Var. 22 2924 HD 2894 cont

AC 6743

	Re 1	pc. 2	AC 3	pc. 2.		
a	6.6	6.8	7.2		7.00	± 2
b	t.f.	7.5	7.5		7.50	00
c		7.6	7.6		7.60	00
d		7.8	7.9		7.85	.01
e		8.4	8.4		8.40	00
f		8.6	8.6		8.60	00
g		8.7	8.7		8.70	00
h		9.3	8.8	9.1	9.07	2 3 0
k		9.5	9.5		9.50	00
l		9.6?	9.6?		? 9.60	00
m						
Var.		9.1	9.1			

wrong fl.

	B.	B.
α		
β	4.8	5.1
γ	5.9	6.2
δ	6.5 ~~7.1~~	6.7
ε	4.6	4.8
ζ	5.1	5.2
η	4.9	5.1
θ	5.3	5.2
α	B.	B.

β	4.8	5.0	5.3	5.15	± 1
γ	6.3	6.5	6.4	6.45	1 0
δ	6.7	6.9	6.8	6.85	1 0
ε	4.8	5.0	5.2	5.10	± 1
ζ	5.3	5.5	5.4	5.45	1 0
η	5.1	5.3	5.4	5.35	± 1 0
θ	5.3	5.5	5.4	5.45	1 0

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Monday
Saturday October 21, 1912.

Scale m Measures of c.s. for 222924. N V 2898 4.

ac 12562.

	sc.1	sc.2	sc.3		
a	6.6	6.8	6.8	6.80	00
b	6.7	6.9	7.3	7.10	±2
c		7.3	7.4	7.35	±0
d		7.7	7.6	7.65	10
e		7.7	7.8	7.75	±0
f		8.4	8.4	8.40	00
g		8.4	8.5	8.45	01
h		8.6	8.6	8.60	00
k		8.9	8.8	8.85	10
l		9.4	9.3	9.35	01
m		9.5	9.5	9.50	00
n		9.8	9.8	9.80	00
p		~~7~~ n.s.			
Var.		7.1	7.8	7.75	±0
α	B.				
β	4.8	5.0	5.1	5.05	01
γ	5.9	6.1	6.2	6.15	±0
δ	6.5	6.7	6.7	6.70	00
ε	4.6	4.8	4.8	4.80	00
ζ	5.1	5.3	5.2	5.25	10
η	4.9	5.1	5.1	5.10	00
θ	5.3	5.5	5.2	5.35	12

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Monday. October 21, 1912.

Scale m. Measures of C.S. for 22 2924 = 15 2494 98
Ac 6894.

	Pc.1	Pc.2	pc2	Ac 6894		Ac 5446	Ac 6743	Ac 12562	Mean	Res.			
var. star. a	6.9	6.9	6.7.2	7.05	1 2	6.60	7.00	6.80	6.86	19	26	14	06
b		7.5	7.5	7.50	00	6.85	7.50	7.10	7.24	26	39	26	14
c		7.7	7.7	7.70	00	7.05	7.60	7.35	7.42	28	37	18	07
d		8.2	8.1	8.15	0 1	7.60	7.85	7.65	7.81	34	21	04	16
e		8.4	8.3	8.35	0 1	7.80	8.40	7.75	8.08	27	28	33	33
f		8.7	8.7	8.70	00	8.30	8.60	8.40	8.50	20	20	10	10
g		8.9	8.8	8.85	10	8.55	8.70	8.45	8.64	21	09	06	19
h		9.3	9.1	9.20	1 1	8.60	9.07	8.60	8.87	33	27	20	27
k		9.4	9.3	9.35	0 1	9.15	9.50	8.85	9.21	14	06	29	36
l		9.7	9.7	9.70	00	9.50	9.60	9.35	9.54	16	04	06	19
m						9.60 10		9.50 15	9.55 9.66	.	05	.	05
n								9.80 30	9.88 9.96	a	.	.	.

Var.	9.3	9.3										
α	B.	B.										
β	4.9	5.1	5.2	5.15	1 0	4.55	5.15	5.05	4.98	17	43	17	07
γ	5.9	6.1	6.4	6.25	1 2	5.65	6.45	6.15	6.12	13	47	33	03
δ	6.6	6.8	6.8	6.80	00	6.35	6.85	6.70	6.68	12	33	17	02
ε	4.8	5.0	5.1	5.05	01	4.40	5.10	4.80	4.84	21	44	26	04
ζ	5.3	5.5	5.2	5.35	1 2	5.10	5.45	5.25	5.29	06	19	16	04
η	5.2	5.4	5.5	5.45	01	5.00	5.35	5.10	5.22	23	22	13	12
θ	5.4	5.6	5.6	5.60	00	5.10	5.45	5.35	5.38	22	28	07	03

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Monday October 21, 1912.

Scale m. ~~Measures of 08~~. Standard Region a 2 = 12h ~~20~~ + 75°

∓ 28436. – Preceding? images – Copied

		Ac. 1	No. 2		P.C.	Sc 2		
too far from center →	1	4.0	4.2		~~P.C.~~ Sc 2 8.1	8.6	8.65	Not reduced. Superseded by measures Dec. 9.5
"	2				8.8	8.8	8.80	
" "	3				8.8	8.7	8.75	
" "	4				8.7	8.8	8.75	
" "	5				9.4	9.5	9.45	
" "	6				9.5	9.5	9.50	
" "	7	4.8	5.0		9.1	9.1	9.70	
" "	8							
	9	5.2	5.4	5.6	5.50	2.98	8.48	
	10	5.6	5.8	5.8	5.80	2.96	8.76	
"	11							
	12	6.6	6.8	6.8	6.80	2.92	9.72	
	13	6.7	6.9	7.2	7.05	2.88	9.93	
	14	6.9	7.1	7.4	7.25	2.91	10.16	
	15			7.5	7.58	2.93	10.43	
	16			7.6	7.6	7.60	2.95	10.55
	17			7.8	7.8	7.80	2.97	10.77
	18			8.6	8.5	8.55	3.08	11.63
	19			8.8	8.7	8.65	3.10	11.75
	20	"		8.7	8.8	8.75	3.12	11.87
	21			9.1	8.9	9.00	3.18	12.18
	22			9.5	9.5	9.50	3.30	12.80
	23			9.7	9.7	9.70	3.35	13.05
	24			~~9.8~~ 7				
	25							

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Monday October 21, 1912.

Scale M. $\alpha 2 = \overset{12}{\cancel{2}}{}^h + 75^\circ$

I 28436 cont.

Polar Sequence.

	Sc 1	pc. 2	Sc 2	P.C.		Pris Comp.	
5				8.4	8.4		
too far from c? 8	4.9 5.1	5.2		esp? do not find P.C.		5.15	2.95
9	5.6 5.8	5.8		9.4	9.3	5.80	2.90
10	5.6 5.8	5.9		9.1	9.1	5.85	3.04
11	6.2 6.4	6.4				6.40	3.02
12	6.7 6.9	6.7				6.80	2.93
13	6.9 7.1	7.4				7.25	2.92
14		7.6	7.6			7.60	2.92
15		7.8	7.8			7.80	3.14
meas 15. entries on wr. line. 16		~~7.8~~ 8.2	8.2			8.20	3.06
17		8.6	8.6			8.60	2.89
18		8.7	8.6			8.65	3.27
19		9.1	9.1			9.10	3.18
20		9.3	9.3			9.30	3.29
21		9.7 5	9.7			9.70	3.12
22		9.5	9.6			9.55	3.50
23		7.					

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1912phae.proj.10550

Monday October 21, 1912.

Scale M

$\alpha_{1912} = 12^h + 15^\circ$

I 28436 cont. following? images.

Comparison Ac.1 : Ac.2

		Ac.1	Ac.2		P.C. Ac.1	P.C. Ac.2		
too far from centre	1				8.6	8.6	8.60	not reduced.
" " ?	2				8.1	8.6	8.65	Separated by
" "	3				8.7	8.1	8.70	measure Bk 3.95
" "	4				8.8	8.8	8.80	
" "	5				9.4	9.5	9.45	
" "	6				9.4	9.5	9.45	
	7				9.1	9.1	9.10	
" "	8							
	9	5.4	5.6	5.1	5.65	2.96	8.61	
	10	5.6	5.8	5.6	5.70	2.96	8.66	
" "	11				—	—	—	
	12	6.6	6.8	6.7	6.75	2.92	9.67	
	13		7.4	7.4	7.40	2.93	10.33	
	14		7.4	7.5	7.45	2.93	10.38	
	15		7.6	7.6	7.60	2.95	10.55	
	16		7.7	7.6	7.65	2.95	10.60	
	17		7.8	7.7	7.75	2.96	10.71	
	18		8.4	8.6	8.50	3.07	11.57	
	19		8.7	8.7	8.70	3.12	11.82	
	20	"	8.8	8.8	8.80	3.14	11.94	
	21		9.0	8.9	8.95	3.17	12.12	
	22		9.4	9.4	9.40	3.28	12.68	
	23		9.6	9.6	9.60	3.33	12.93	
	24							
	25							

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1912phae.proj.10550

Friday October 25, 1912.

Scale m. $\alpha_{1912} = 12^h + 15^\circ$.

I 34535

Copied.

October 30, 1912. — too late

Pris Comp. measured Nov 2, 1912.

		pc.1	pc.2	sc.2		sc.1			
too bri?	1	2.8	3.0		3.0 2.90	7.9	7.9	7.90 − 1.35	6.55
" "	2	3.3	3.5		3.5 3.40	8.3	8.4	8.35 − 1.01	7.34
too far from centre	3					8.6	8.6	8.60 − 0.87	7.73
" "	4					8.4	8.4	8.40 − 1.01	7.39
" "	5					8.7	8.8	8.75 − 0.78	8.04
" "	6					8.7	8.8	8.75 − 0.72	8.03
" "	7					9.4	9.4	9.40 − 0.33	9.07
" "	8					9.5	9.5	9.50 − 0.27	9.23
	9	5.2	5.4	5.2	5.30 3.54 6.75	9.7	9.6	9.65 − 0.20	9.45
	10	5.4	5.6	5.5	5.55 3.51 9.07	9.6	9.7	9.65 − 0.20	9.45
" "	11					f.			F
	12	6.1	6.3		6.30 3.47 9.77				
	13	6.4	6.6	6.5	6.55 3.46 10.01				
	14	6.5	6.7	6.6	6.65 3.46 10.11				
	15	6.7	6.9	6.9	6.90 3.46 10.36				
	16	6.8	7.0	7.3	7.15 3.47 10.62				
	17			7.5	7.4 7.45 3.47 10.92				
	18			8.1	7.9 8.00 3.49 11.49				
	19	t.f.		8.4	8.4 8.40 3.54 11.94				
	20			8.5	8.5 8.50 3.56 12.06				
	21			8.5	8.5 8.50 3.56 12.06				
	22			8.8	8.8 8.80 3.67 12.47				
	23			9.1	9.1 9.10 3.77 12.87				
	24			9.4	9.4 9.40 3.90 13.30				
	25			9.6	9.62				
	26								

See O'R III: 96.

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1912phae.proj.10550

Friday October 27, 1912.

Scale m. $\alpha_2 = 12^h + 15.$

I 34535 cont.

	sc.1	sc.2		
5				
8	4.4 46		4.50 3.60	
9	5.1 53		5.20 3.50	
10	5.2 54		5.30 3.59	
11	5.6 58	5.7	5.75 3.67	
12	6.2 64	6.2	6.30 3.43	
13	6.6 68	6.8	6.75 3.42	
14	6.8 70	7.0	7.00 3.52	
15		7.4	7.5 7.45 3.49	
16		7.6	7.7 7.65 3.61	
17		8.2	8.1 8.15 3.34	
18	double?			
19		8.1	8.1 8.70 3.58	
20		8.8	8.1 8.75 3.84	
21		9+8.9	8.9 8.90 3.92	
22		9.1	9.1	
23		9.5	9.5 9.50 3.70	
24				
25				
~~26~~				
~~27~~				

2 stars almost superposed Pv

Polar Sequence - November 2, 1912.

P.C.

sc.2	sc.2.	
7.8	7.8	7.80 – 1.41
8.8	8.7	8.75 – 0.65
9.2	9.3	9.25 – 0.55
def.?	def.	
9.6.	9.6	9.60 – 0.18
n.s.	n.s.	

11:45 Nov. 2, '12 Prismatic Companions on Polar Sequence are not good - faint and rather difficult to find. (~~October 30, 1912~~).

~~Light has~~

It has rapidly become darker since I have started to measure this plate. – began to rain. MR.

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http://hdl.handle.net/10950/proj.10550

Wednesday October 30, 1912.

Scale m. $\alpha_3 = 20^h + 75°$

I 27952 – Preceding images.

Acc. 1

					P.C. sc. 2	P.C. sc. 2	Lapsed	
too far from centre	1				8.6	8.6	8.60 – 1.16	7.44
" "	2				8.6	8.6	8.60 – 1.16	7.44
" "	3				8.7	8.1	8.70 – 1.14	7.56
" "	4				8.7	8.1	8.70 – 1.14	7.57
" " ?	5				8.7	8.1	8.70 – 1.14	7.56
" " ?	6				9.3	9.3	9.30 – 1.00	8.30
	7	4.7 4.9	4.9	4.90 3.25	8.15	9.5	9.4?	9.45 – 0.97	8.48?
	8	5.3 5.5	5.6	5.55 3.45	9.00	9.7		9.78 0.90	8.80
	9	5.1 5.3	5.5	5.40 3.41	8.81	7			6
" " ?	10	5.2 5.4	5.6	5.50 3.44	8.94				
	11	5.4 5.6	5.6	5.60 3.45	9.05				
	12	5.5 5.7	5.8	5.75 3.50	9.25				
	13	5.6 5.8	5.8	5.80 3.50	9.30				
	14	6.0 6.2	6.3	6.25 3.58	9.83				
	15	6.2 6.4	6.6	6.50 3.62	10.12				
	16	6.6 6.8	6.8	6.80 3.66	10.46				
	17	6.7 6.9	7.1	7.00 3.67	10.67				
	18	6.8 7.0	7.2	7.10 3.68	10.78				
	19		7.4	7.4 7.40 3.72	11.12				
	20	tf.	7.6	7.6 7.60 3.73	11.33				
	21		7.7	7.8 7.75 3.76	11.51				
	22		7.9	7.9 7.90 3.76	11.66				
	23		8.4	8.4 8.40 3.80	12.20				
	24		8.7	8.6 8.65 3.81	12.46				
	25		8.7	8.6 8.65 3.81	12.46				
	26		~~def.~~ 8.8	~~def.~~ 8.8	8.80 3.83	12.63			

P.C. measures in O'R III: 99.

Images of stars in Stau. Seq. are good and plate shows faint stars for this seq. but faint stars in Polar Seq. (Plate badly scratched) seq. not seen.

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Wednesday October 30, 1912.

Scale m. $\alpha_3 = 20^h + 75°$

I 27952 cont.

	Sc.1	Sc.2	Sc.3			Prismatics Comp. Sc.2	Sc.2	
27		9.1	9.2	9.15	3.85	13.00		
28		9.5	9.5	9.50	3.86	13.36		
Prec. image surf. (by no 14 of Polar) 29		surf.						
30		9.7	9.8	9.75	3.87	13.62		
Polar Seq. 5						7.8	7.7	7.75 – 1.36
too far from centre 8	4.6	4.8	4.8	4.80	3.30	9.3	9.3	9.30 – 1.20
" " " 9	5.2	5.4	5.4	5.40	3.30	9.5	9.5	9.50 – 0.80
10	5.3	5.5	5.6	5.55	3.34			
11	5.6	5.8	5.7	5.75	3.67			
12	5.8	6.0	6.2	6.10	3.63			
13	6.4	6.6	6.6	6.60	3.57			
14	6.6	6.8	6.8	6.80	3.72			
15	7.0	7.2	7.3	7.25	3.69			
16		7.5	7.6	7.55	3.71			
17		7.7	7.7	7.70	3.79			
18		8.3	8.3	8.30	3.62			
19		8.5	8.4	8.45	3.83			
20		8.7	8.7	8.70	3.89			
21		9.1	9.2	9.15	3.67			
Im. large but ft. 22		9.3	9.3	9.30	3.85			
23		9.4	9.4	9.40	3.80			
Star surf. on 25? 25		9.6?	9.7	9.65?	4.08			

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1912phae.proj.10550

Wednesday October 30, 1912.

Scale m.

$\alpha_3 = 20^h +75°$

I 27952

		sc.1	sc.2	sc.2	cont. Pris: comps. sc.2	sc.2	sc.2		Following images. Rejected. sc.2	sc.2			
too far from centre	1				8.6	8.6	8.60-1.16 7.44	28	9.4	9.5	9.45	3.85	13.30
" "	2				8.6	8.6	8.60-1.16 7.44	29	def. 9.6	def. 9.6	9.60	3.87	13.47
" "	3				8.7	8.7	8.70-1.14 7.66	30	9.6	9.8	9.70	3.87	13.57
" "	4.				8.6	8.7	8.65-1.15 7.50						
" " ?	5	4.4	4.6	4.50	8.8	8.7	8.75-1.12 7.63						
" " ?	6	4.7	4.9	4.80	9.2	9.1	9.15-1.02 8.13		3.24 8.16	8.07			
	7	5.1	5.3	5.30	9.3	9.4	9.35-0.99 8.36		3.37	8.67			
	8	5.4	5.6	5.55	9.6	9.7	9.65-0.91 8.74		3.46	9.01			
	9	5.3	5.5	5.45	f.				3.40	8.85			
" " ?	10	5.3	5.6	5.55					3.46	9.01			
	11	5.4	5.6	5.60					3.46	9.06			
	12	5.7	5.8	5.85					3.50	9.35			
	13	5.7	5.8	5.85					3.50	9.35			
	14	5.8	6.4	6.20					3.58	9.78			
	15	6.4	6.6	6.60					3.63	10.23			
	16	6.6	6.9	6.85					3.66	10.51			
	17	6.7	7.1	7.00					3.68	10.68			
	18	6.8	7.3	7.15					3.70	10.85			
	19		7.4	7.4	7.40				3.72	11.12			
	20		7.6	7.6	7.60				3.73	11.33			
	21		7.8	7.7	7.75				3.76	11.51			
	22		7.9	7.8	7.85				3.76	11.61			
	23		8.3	8.4	8.35				3.80	12.15			
	24		8.6	8.6	8.60				3.81	12.41			
	25		8.7	8.7	8.70				3.83	12.53			
scratch through image	26		def.	def.									
	27		9.1		9.18				3.84	12.94			

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Friday November 1, 1912

Scale P. Measures of faint comparison stars for Var 222924.
A 6061. (per P. 136 for chart and measures of bri. stars)

	pc.1	pc.2		A 6061		A 5616	Mean	Res.	
m	5.7	5.9	5.7	5.80	1	6.85	6.32	52	53
n	5.8	6.0	5.7	5.85	2	7.40	6.62	77	78
o	6.4	6.6	6.5	6.55	0	7.55	7.05	50	50
p	6.8	7.0	6.8	6.90	1	8.20	7.55	65	65
p'	6.8	~~6.9~~ 7.0	6.9	6.95	0	8.30	7.62	67	68
q	tf.	7.6	7.6	7.60	00	8.65	8.12	52	53
q'		7.8	7.9	7.85	0.1	9.15	8.50	65	65
r		8.4	8.4	8.40	00	9.35	8.87	47	48
r'		8.5	8.5	8.50	00	9.40	8.95	45	45
r2		8.8	8.1	8.75	0	9.85	9.30	55	55
s		9.6	9.7	9.65	0		9.65	a	

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1912phaa.proj.10550

Friday November 1, 1912.

Scale P. Measures of Faint Comparison Stars for Var. 222924.

a 5 6 16

	sc.1	sc.2		
m	6.8	7.0 6.7	6.85	2
n	tf.	1.4	1.4	7.40	00
o	tf.	1.5	1.6	7.55	1 0
p		8.3	8.1	8.20	1 1
p' q		8.4	8.2	8.30	1 1
q		8.7	8.6	8.65	1 0
q'		9.2	9.1	9.15	0 1
r		9.3	9.4	9.35	1 0
r'		9.4	9.4	9.40	0 0
r2		9.9	9.8	9.85	1 0
s		n.s.		

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1912phae.proj.10550

Saturday November 2, 1912.

Scale m. $\alpha_3 = 20^h + 15^\circ$

Star Seq.	I 28836 - sc.1	sc.2	Preceding Copied	Images sc.2	sc.2	Copied in Bk 3: 97
too far from centre 1				7.7	7.8	7.75 − 0.65 7.10
" " " 2				7.6	7.8	7.70 − 0.68 7.02
" " " 3				8.4	8.5	8.45 − 0.46 7.99
" " " 4				8.4	8.6	8.50 − 0.42 8.08
" " " R. 5				8.6	8.6	8.60 − 0.39 8.21
" " " ? 6	4.6 4.8	4.7	4.75 4.03 8.78	8.7	8.7	8.70 − 0.35 8.35
7	4.1 4.3	4.3	4.30	8.8	8.8	8.80 − 0.33 8.47
8	4.7 4.9	5.2	5.05 4.01 9.06	9.4	9.3	9.35 − 0.06 9.29
9	4.7 4.9	5.1	5.00 4.00 9.00	9.1	sup.	
" " ? 10		5.2	5.2 3.99 9.19			
11	4.8 5.0	5.2 sc.1 sc.2. sc	5.10 4.00 9.10 rep.			
Reject 5.7? must have mass W.S. } 12	5.7	5.4 5.6 5.6 5.4 5.6	5.60 3.98 9.58			
13	5.6 5.8	5.6	5.70 3.98 9.68			
14	5.7 5.9	5.7	5.80 3.99 9.79			
15	5.8 6.0	5.9	5.95 4.00 9.95			
16	6.4 6.6	6.6	6.60 4.07 10.67			
17	.	.				
18	6.7 6.9	7.3	7.10 4.12 11.22			
19	6.7 6.9	7.2	7.05 4.10 11.15			
20	6.8 7.0	7.4	7.20 4.12 11.32			
21	7	7.6	7.6 7.60 4.18 11.78			
22		7.6	7.6 7.60 4.18 11.78			
23		7.8	7.7 7.75 4.20 11.95			
Error of a unit 24		8.2	8 7.3 8.25 4.26 8 12.51 3			
25		8.4	8.4 8.40 4.30 12.70			
26		8.5	8.4 8.45 4.30 12.75			

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1912phaa.proj.10550

Saturday November 2, 1912.

Scale m. $a_3 = 20^h + 1^s$

I 28836 cont.

Corr. for dt +.02

			Sc 2	Sc 2					Sc 2	Sc 2		
Stan Seq.	27		8.6	8.6	8.60	4.35	12.95	~~24~~	~~24~~			
	28		8.6	8.7	8.65	4.35	13.00	~~25~~	25	9.2	9.3	9.25	4.48
	29		8.9	8.9	8.90	4.40	13.30	~~26~~	26	9.6	9.7	9.65	4.54
	30		9.2	9.2	9.20	4.46	13.66	27	27	I.			
	31		9.4	9.5	9.45	4.50	13.95						
	32		9.6	9.6	9.60	4.54	14.14						
Polar.	5				~~7.4~~		6.8	Sc 2	7.3	7.15	− .16		
	8						8.6		8.6	8.60	− .50		
	9						8.9		8.9	8.90	− .70		
	10	4.4	4.6	4.7	4.65	4.24	9.3		9.2	9.25	− .36		
	11	5.2	5.4	5.6	5.50	3.92	9.3		9.2	9.30	+ .12		
	12	5.7	5.9	~~5.6~~ 5.7	5.80	3.93	9.6		9.6	9.60	+ .03		
	13	5.8	6.0	6.2	6.10	4.07							
	14	6.4	6.6	6.4	6.50	4.02							
	15	6.6	6.8	6.8	6.80	4.14							
	16	6.7	6.9	7.2	7.05	4.21							
	17	7.5 Sc 2		7.6	7.55	3.94							
	18	7.6		7.8	7.70	4.22							
	19	7.8		7.8	7.80	4.48							
	20	8.4		8.4	8.40	4.19							
	21	8.6		8.6	8.60	4.22							
	22	8.6	7	8.8	8.75	4.39							
	23	8.8		8.8	8.80	4.40							

There are several stars around the P.C. of no 9 of Stan Seq. Uncertain which is Comp. Star no 17 of Stan seq. is on crack of plate – not measured.

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Saturday November 2, 1912.

Seaton. $\alpha_3 = 20^h + 75^\circ$

I 28836 cont. Following Images.

Copied

Prismatic Companions. Copied in Bk 3:97

		Rc.1	Rc.2	Rc.2				Rc.2			
too far from centre	1							7.7	7.1	7.70 − 0.68	7.02
" "	2							7.8	7.7	7.75 − 0.64	7.11
" "	3							8.4	8.4	8.40 − 0.45	7.95
" " "	4							8.5	8.4	8.45 − 0.45	8.00
" " "	5							8.6	8.6	8.60 − 0.39	8.21
" " " ?	6							8.7	8.7	8.70 − 0.36	8.34
	7	4.1 4.3		4.3	4.30			8.8	8.8	8.80 − 0.33	8.47
wrong unit	8	4.6 4.8		5.9	4.85	4.03	8.88	9.4	9.4	9.40 − 0.64	9.36
	9	4.7 4.9		5.1	5.00	4.01	9.01				
" " "	10										
	11	4.8 5.0		4.9	4.95	4.01	8.96				
	12	5.4 5.6		5.6	5.60	3.98	9.58				
	13	5.5 5.7		5.6	5.65	3.98	9.63				
	14	5.6 5.8		5.7	5.75	3.98	9.73				
	15	5.8 6.0		6.2	6.10	4.02	10.12				
	16	6.4 6.6		6.4	6.50	4.06	10.56				
See note	17	~~6.5~~		~~6.5?~~							
	18	6.6 6.8		6.7	6.75	4.09	10.84				
	19	6.7 6.9		6.8	6.85	4.09	10.94				
	20	6.7 6.9		7.3	7.10	4.12	11.22				
	21			7.5	7.5	7.50	4.16	11.66			
	22			7.6	7.6	7.60	4.17	11.77			
	23			7.7	7.8	7.75	4.20	11.95			
	24			8.3	8.3	8.30	4.29	12.59			
	25			8.4	8.4	8.40	4.31	12.71			

Do not measure 17. (Bus Leavitt)

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Saturday November 2, 1912.

Scale m. A_3 - 20^h $+75^\circ$

I 28836 cont. Following Images.

	Rec.2	Rec.2			
26	8.5	8.6	8.55	4.35	12.90
27	8.6	8.6	8.60	4.35	12.95
28	8.7	8.8	8.75	4.38	13.13
29	8.8	8.9	8.85	4.38	13.23
30	9.2	9.2	9.20	4.46	13.66
31	9.5	9.4	9.45	4.49	13.94
32	9.7	9.7	9.70	4.56	14.26

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1912phae.proj.10550

Tuesday November 5, 1912.

Scale m.

$\alpha_3 = 20^h + 75°$

I 34708.

Spectr.

Prism. Comps.

	pc.1	pc.2.	pc.2				pc.2	pc.2	
5							7.7	7.7	7.70 − 0.31
6							8.4	8.6	8.50 − 1.52
8							9.5	9.4	9.45 − 1.45
9							9.6	9.6	9.60 − 0.90
10	5.6 5.8	5.6		5.70	3.19	8.89	9.5	9.6	9.65 − 0.76
11	6.0 6.2	6.3		6.25	3.17	9.42			
12	6.3 6.5	6.4		6.45	3.28	9.73			
13	6.6 6.8	6.7		6.75	3.42	10.17			
14	6.7 6.9	7.3		7.10	3.42	10.52			
15		7.5	7.6	7.55	3.39	10.94			
16		7.6	7.7	7.65	3.61	11.26			
17		7.8	7.9	7.85	3.64	11.49			
18		8.4	8.4	8.40	3.52	11.92			
19		8.6	8.6	8.60	3.68	12.28			
20		8.7	8.7	8.70	3.89	12.59			
21		9.1	9.0	9.05	3.77	12.82			
~~22~~									
23		9.4	9.4	9.40	3.80	13.20			
25		9.7	9.7	9.70	4.03	13.73			
26		9.9?	9.9	9.90?	4.29	14.19			

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1912phae.proj.10550

Tuesday November 5, 1912.

Scale M. Q 3 = 20h + 75°

I 34708. cont. Leopold.

	pc.1	pc.2		P.C.	pc.2		pc.2.			
				pc.2						
too far from centre 1				8.5	8.6	8.55	28	9.4	9.4	9.40 3.92
" " 2				8.5	8.6	8.55	29	9.4	9.5	9.45 3.97
" " 3				8.6	8.7	8.65	30	9.7	9.1	9.70 4.05
" " 4				8.7	8.6	8.65	31		±	±
" " 5				8.7	8.7	8.70				
" " ? 6				9.4	9.4	9.40				
7	4.8	4.9	4.95	9.5	9.4	9.45				
8	5.3	5.3	5.30 3.18 8.58	9.7	9.7	9.70				
9	5.4	5.5	5.55 3.19 8.74	curve not drawn						
" " ? 10	5.4	5.4	5.50 3.19 8.69	See re-measures						
11	5.4	5.5	5.55 3.19 8.74	Bk 3:98						
12	5.6	5.8	5.80 3.22 9.02							
13	5.8	5.9	5.95 3.25 9.20							
14	6.4	6.7	6.65 3.31 9.96							
15	6.5	6.6	6.65 3.31 9.96							
16	6.7	6.8	6.85 3.34 10.19							
17	6.7	7.1	7.00 3.37 10.37							
18	6.8	7.3	7.15 3.37 10.52							
19		7.4	7.6 7.50 3.43 10.93							
20		7.6	7.6 7.60 3.45 11.05							
21		7.9	7.9 7.90 3.50 11.40							
22		8.2	8.2 8.20 3.57 11.77							
23		8.4	8.6 8.50 3.64 12.14							
24		8.6	8.6 8.60 3.67 12.27							
25		8.7	8.7 8.70 3.68 12.38							
26		8.8	8.8 8.80 3.71 12.51							

Images of Companion are not very good on this plate.

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1912phae.proj.10550

Thursday November 7, 1912.

Scale m B 1 = 1 20″ +45

I. 34376.

Copied

	sc.1	sc.1		Prin. Comp. sc.2	sc.2	sc.2	Copied B/3:100	
1	3.7 3.9	3.7 3.9	3.90 3.12 7.02	8.3	8.3	8.30 − 1.23	7.07	
58 mm too far from centre 2				8.6	8.6	8.60 − 1.17 (.09)	7.43 (.51)	
" " 61 mm 3				8.6	8.75	8.55 − 1.17 (.0)	7.38 (.45)	
" " 47 mm 4		sc.2		8.7	8.7	8.70 − 1.21 (.0)	7.49 (.6)	
5	4.3 4.5	4.4	4.45 3.30 7.75	8.8	8.8	8.80 − 1.06 (.99)	7.74 (.81)	
6	4.5 4.7	4.7	4.70 3.40 8.10	9.2	9.2	9.20 − 1.00 (.80)	8.20 (.4)	
7	4.6 4.8	5.1	4.95 3.51 8.46	~~9.1~~	9.4	9.4 9.40 − .096 (.70)	~~8.44~~ 8.70	9.7 evidently wr. image.
8	4.9 4.9 (.8)	5.1	5.00 3.51 8.51	9.25	9.5	9.50 − .093 (.65)	8.57 (.85)	
9	4.1 4.9	5.2	5.05 3.51 8.56	n.s.				
10	sup.							
11	4.7 4.9	5.2	5.05 3.51 8.56					
12	4.9 5.1	5.2	5.15 3.57 8.72					
13	5.3 5.5	5.5	5.50 3.62 9.12					
14	5.6 5.8	5.8	5.80 3.67 9.47					
15	5.9 6.1	6.1	6.10 3.71 9.81		sc.2	sc.2		
16	6.7 6.9	6.8	6.85 3.76 10.61	27	9.4	9.4	9.40 4.00	13.40
17	6.5 6.7	6.1	6.70 3.76 10.46	28	9.5	9.5	9.50 4.02	13.52
18	6.4 6.6	6.6	6.60 3.75 10.35	29	9.7	9.8	9.75 4.12	13.87
19	6.6 6.8	6.9	6.85 3.76 10.61					
20	6.9 7.1	7.2	7.15 3.78 10.93					
21	6.8 7.0	7.3	7.15 3.78 10.93					
22		7.6	7.8 7.70 3.80 11.50					
23		7.4	7.7 7.55 3.80 11.35					
24		8.2	8.4 8.30 3.81 12.11					
25		8.6	8.6 8.60 3.83 12.43					
Im. too poor to measure sup? 26								

cont.

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1912phae.proj.10550

Thursday November 7, 1912.

Scale m. B1 = 1 20 +45°

I 34376 cont

Polar Sequence.

		sc.1	sc.2	sc.1		Rel. Comp. sc.2	sc.2	
too far from center?	5	3.2 3.4	3.	3.3 3.5	3.45	2.94	7.1	7.1	7.70 – 1.31
" ?	6	3.1 3.9	3.6	3.6 3.8 sc.2	3.85	3.13	8.4	8.4	8.40 – 1.42
" ?	8	4.6 4.8	4.1		4.75	3.35	8.8	8.8	8.80 – 0.80
" ?	9	4.8 5.0	5.2		5.10	3.60	9.5	9.5	9.50 – 1.00
Error of a unit	10	5.2 5.4	5 4.4		5.40	3.49	9.1	9.1	9.10 – 0.81
	11	5.6 5.8	5.6		5.70	3.72	10.0?	?	
	12	5.7 5.9	5.8		5.85	3.88			
	13	6.2 6.4	6.6		6.50	3.67			
	14	6.5 6.7	6.7		6.70	3.82			
	15	6.7 6.9	7.3		7.10	3.84			
	16		7.4	7.6	7.50	3.76			
	17	7.1	7.7	7.7	7.70	3.79			
	18		8.1	8.2	8.16	3.77			
Image def. – ½ or too close to another star	19	def.							
	20		8.6	8.7	8.65	3.94 3.83			
	21		9.2	8.8	8.7 8.97	3.85			
	23	—	9.3	9.4	9.35	3.85			
	25		9.6	9.6	9.60	4.13			
	26		9.9	10.0	9.95	4.24			

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1912phae.proj.10550

Saturday, November 9, 1912.

Scale m.

B 1 = 1 20 +45°

I 33862

Preceding images.

Stan. Seq. | Scale 1 | sc. 2 | sc. 1 | | | | Bris. Comp. sc. 2 | sc. 1 | | Corrected

I	3.1 33	B.	3.2 34	3.35	3.62	6.97	8.2	8.3	8.25 - 1.25	7.00
2							8.3	8.3	8.30 - 1.23	7.07
3							8.4	8.4	8.40 - 1.18	7.22
4							8.6	8.6	8.60 - 1.13	7.47
5	3.8 40	B.	3.8 40	4.00	3.53	7.53	9.2 hour	9.3?	9.25 - 0.97	8.28
6	4.2 44	4.2		4.30	3.48	7.78	9.3	9.3	9.30 - 0.94	8.36
7	4.1 49	4.9		4.90	3.41	8.31	9.1	9.1	9.10 - 0.83	8.27
8	4.1 49	5.2		5.05	3.40	8.45	9.1	9.1	9.10 - 0.83	8.27
9	4.8 50	5.2		5.10	3.40	8.50	n.s.			
Ims sup. on no. 10.	sup.									
11	4.8 50	5.2		5.10	3.40	8.50				
12	5.2 54	5.4		5.40	3.38	8.78				
13	5.6 58	5.6		5.70	3.37	9.07				
14	5.1 59	5.8		5.85	3.36	9.21				
15	5.9 61	6.3		6.20	3.37	9.57				
16	6.1 64 6.7	7.2	sc. 2 7.2	7.08	3.44	10.52				
17	6.1 69	6.9		6.90	3.41	10.31				
18	6.1 69	7.2		7.05	3.43	10.48				
19	6.8 70	7.4		7.20	3.45	10.65				
20		7.6	7.6	7.60	3.54	11.14				
21		7.4	7.4	7.40	3.49	10.89				
22		7.7	7.7	7.70	3.56	11.26				
23		7.6	7.7	7.65	3.54	11.19				
24		8.3	8.4	8.35	3.79	12.14				
25		8.6	8.6	8.60	3.87	12.47				
26		8.6	8.7	8.65	3.87	12.52				

wn star - line was doubtful -

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Saturday November 9, 1912.

Sc. M. B 1 = 1h. 20 +45°

I 33862 cont

	sc 1	sc. 2	sc. 2			Prés. Comp. sc 1	sc. 2	
27		9.3	9.4	9.35	4.25	13.60		
too close to another star. diff. to measure. 28	-							
29		9.1	9.1	9.10	4.40	14.10		
30		9.1?	9.1?	9.10?	4.40	14.10?		
Polar - too far from 8 5								
6	3.2 3.4	sc. 2	sc 1	3.33	3.35	3.63	8.3	8.3	8.30 - 1.32
8	4.6 4.8	4.6		4.70	3.40		8.8	8.9	8.85 - 0.95
9	5.1 5.3	5.3		5.30	3.40		9.6	9.6	9.60 - 0.90
10	5.4 5.6	5.4		5.50	3.39		9.7	9.7	9.70 - 0.81
11	5.7 5.9	6.1		6.00	3.42				
12	6.3 6.5	6.4		6.45	3.28				
13	6.5 6.7	6.1		6.70	3.47				
14	6.8 7.0	7.2		7.10	3.42				
15		7.4	7.6 sc 2	7.50	3.44				
close to another star. 16		7.5	7.6	7.55	3.71				
17		7.7	7.8	7.75	3.74				
18		8.3	8.3	8.30	3.62				
19		8.4	8.4	8.40	3.88				
20		8.6	8.6	8.60	3.99				
21		8.8	8.8	8.80	4.02				
23		9.1	9.2	9.15	4.05				
25		9.4	9.4	9.40	4.33				
26		9.8	9.7	9.75	4.44				

Images of P.C. on Polar Seq. are not circular — elongated.
No. 18 of Star Seq. almost pair on no. 30 of Star Seq.

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1912phae.proj.10550

Saturday November 9, 1912

Scale m. B1 = 1 20 +45°

I 33862 cont. Following images lapsed

	sc.1	sc.2	sc.1				Pris. comp sc.2	sc.2		
1	3.2 3.4		3.33	3.35	3.63	6.98	8.3	8.2	8.25 - 1.25	7.00
too far from centre 2							8.3	8.3	8.30 - 1.23	7.07
" " 3							8.4	8.4	8.40 - 1.19	7.21
" " 4							8.6	8.7	8.65 - 1.12	7.53
5	3.9 4.1		3.9	4.10	3.51	7.61	8.9	8.9	8.90 - 1.04	7.86
6	4.2 4.4	4.2		4.30	3.49	7.79	9.3	9.3	9.30 - 0.94	8.36
7	4.7 4.9			~~4.80~~ 4.9	~~3.43~~ 1	~~8.23~~ 31	9.7	9.7	9.70 - 0.82	8.88
8	4.8 5.0	5.2		5.10	3.40	8.50				
9	4.8 5.0			5.00	3.40	8.40				
10	dup.	dup.								
11	4.8 5.0			5.00	3.41	8.41				
12	5.2 5.4	5.6		5.50	3.36	8.88				
13	5.4 5.6	5.6		5.60	3.37	8.97				
14	5.9 6.1	6.2		6.15	3.36	9.51				
w. scale 15	~~6.4~~ 5.9 6.1	6.4		6.25	3.36	9.61				
16	6.6 6.8	7.0		6.90	3.41	10.31				
17	6.6 6.8	7.2		7.00	3.43	10.43				
18	6.8 7.0	7.2		7.10	3.44	10.54				
19	6.8 7.0	7.3		7.15	3.46	10.61				
20		7.4	7.4	7.40	3.50	10.90				
21		7.4	7.3	7.35	3.50	10.85				
22		7.6	7.7	7.65	3.55	11.20				
23		7.6	7.7	7.65	3.55	11.20				
24		8.2	8.3	8.25	3.72	11.97				
25		8.5	8.5	8.50	3.83	12.33				
26		8.6	8.6	8.60	3.88	12.48				
27		9.4	9.4	9.40	4.24	13.64				

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1912phae.proj.10550

Saturday November 9, 1912.

Scale m B1 = 1 20 +45°

I 3386 2 cont.

	sc 2	sc. 2			
28	9.3	9.4	9.35	4.24	13.59
29	9.6	9.6	9.60	4.36	13.96
30	9.7?	9.7?	9.70?	4.41	14.11 ?
31	I.				6

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1912phae.proj.10550

Tuesday
~~Monday~~ November 12, 1912.

Scale m. B 1 = 1 20 +45.

I 34834.

Corr for abb +.02

	Ac.1	Ac.2	Ac.1			Prin Comp. Ac.2	Ac.2		
1	3.2 3.4		3.3	3.35		8.4	8.4	8.40 – 1.24	7.16
2 too far from centre						8.5	8.5	8.50 – 1.20	7.30
3 "						8.5	8.5	8.50 – 1.20	7.30
4 "						8.7	8.7	8.70 – 1.12	7.58
5	4.3 4.5	4.5	4.50	3.31	7.81	8.9	8.8	8.85 – 1.06	7.79
6	4.5 4.7	4.9	4.80	3.30	8.10	9.2	9.2	9.20 – 0.90	8.30
7	4.7 4.9	4.9	4.90	3.29	8.19	9.5	9.5	9.50 – 0.76	8.74
8	4.8 5.0	5.2	5.10	3.28	8.38	9.8	9.1	9.75 – 0.71	9.04
9	4.8 5.0	5.2	5.10	3.28	8.38	9.8	9.1	9.75 – 0.71	9.04
10	pulp?					n.s.			
11	5.0 5.2	5.3	5.25	3.27	8.52				
12	5.2 5.4	5.4	5.40	3.26	8.66				
13	5.4 5.6	5.6	5.60	3.26	8.86				
14	5.6 5.8	5.8	5.80	3.27	9.07				
15	6.5 6.7	6.4	6.55	3.35	9.90				
16	6.9 7.1	7.2	7.15	3.49	10.64				
17	6.7 6.9	6.8	6.85	3.39	10.24				
18	6.8 7.0	7.1	7.05	3.44	10.49				
19	6.8 7.0	7.4	7.20	3.49	10.69				
20		7.5	7.6	7.55	3.61	11.16			
21		7.4	7.5	7.45	3.55	11.08			
22		7.7	7.8	7.75	3.68	11.43			
23 7.6 seems to be disc.		7.6	7.9	7.8	7.85	3.68	11.53		
24		8.4	8.4	8.40	3.88	12.28			
25		8.4	8.6	8.50	3.90	12.40			
26		8.7	8.6	8.65	3.95	12.60			

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1912phae..proj..10550

Tuesday November 12, 1912.

B1 = 1 20 +45°

I 34834 cont.

	pc.1	pc.2	sc.2				P.C.	pc.2	sc.2	
27		9.3	9.4	9.35	4.17	13.52				
28		9.6	9.5	9.55	4.24	13.79				
29		9.6	9.5	9.55	4.24	13.79				
30		9.8	9.8	9.80	4.29	14.09				
31										
too far from c. 5								7.8	7.8	7.80 – 1.41
" " 6								8.3	8.3	8.30 – 1.32
Im. elong. 8	4.7	4.9	4.7		4.80	3.30		8.9	9.1	9.00 – 0.90
" " 9	5.2	5.4	5.2		5.30	3.40	Scratch thru P.C.			
10	5.7	5.9	5.6		5.75	3.14		9.7	9.7	9.70 – 0.81
11	5.9	6.1	5.8		5.95	3.47		9.9	9.9	9.90 – 0.48
12	6.3	6.5	6.4		6.45	3.28				
13	6.6	6.8	7.1		6.95	3.22				
14	6.8	~~7.0~~	7.4		7.20	3.32				
15	6.9	7.1	7.5		7.30	3.64				
16			7.5	7.5	7.50	3.76				
17			7.8	7.7	7.75	3.74				
18			8.2	8.1	8.15	3.77				
19			8.4	8.3	8.35	3.93				
20			8.6	8.6	8.60	3.99				
21			8.8	8.7	8.75	4.07				
23			9.2	9.2	9.20	4.00				
25			9.6	9.5	9.55	4.18				
26.			9.87	9.8	9.80	4.39				

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1912phae.proj.10550

Wednesday November 13, 1912

Scale m. B2. $4^h + 45°$

I 32989. Preceding Images. copied.

Stars. Seq.	Comp. for alt. −10 Pc.1	Pc.2.	Pc.1		Prec. seq.	Comp.	Foll. Comp.		
too far from centre ?1	3 6 38		3.5 37	3.75 d	8.6	8.6		8.60 − 0.95	7.65
" " 2				d	9.1	8.9 9.1		9.10 − 0.73	8.37
" " 3				d	8.8	8.9		8.85 − 0.85	8.00
4				d	9.1	9.3	9.4	9.35 − 0.64	8.71 9.7 seems to be an error.
" " 5				d	9.7	9.6		9.65 − 0.58	9.07
" " 6				d	9.8	9.8		9.80 − 0.52	9.28
off plate!! 7				R					
8	4.8 5.0	4.9		4.95 3.34	8.29	9.8	9.8	9.80 − 0.52	9.28
9	4.9 5.1	5.1		5.10 3.33	8.43	9.9	10.0	9.95 −	
10	5.4 5.6	5.6		5.60 3.27	8.87				
11	5.6 5.8	5.7		5.75 3.26	9.01				
12	5.6 5.8	5.7		5.75 3.26	9.01				
13	5.7 5.9	5.9		5.90 3.26	9.16				
14	6.1 6.3	6.2		6.25 3.26	9.51				
15	6.4 6.6	6.4		6.50 3.27	9.77				
16	6.4 6.6	6.3		6.45 3.26	9.71				
17	6.7 6.9	6.8		6.85 3.29	10.14				
18		7.4	7.2	7.30 3.39	10.69				
19		7.6	7.6	7.60 3.45	11.05				
20		7.6	7.6	7.60 3.45	11.05				
21		7.8	7.7	7.75 3.49	11.24				
22		8.1	7.8	7.95 3.54	11.49				
23		8.2	8.2	8.20 3.59	11.79				
24		8.4	8.3	8.35 3.65	12.00				
25		8.8	8.7	8.75 3.80	12.55				
wrong star? 26		9+ 8.7	8.8	8.75 3.80	12.55				

See O'R III, 101, mean magns. of P.C.

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1912phae.proj.10550

Wednesday November 13, 1912.

Scale m. B 2 = 4h +45°

I 32989 cont.

					Prin. Comp.	
	Sc. 2	W. 2			sc 2	sc 2
21	9.1	9.1	9.10	3.95	13.05	
28	9.2	9.2	9.20	4.01	13.21	
29	9.4	9.4	9.40	4.15	13.55	
30	9.7	9.7	9.70	4.35	14.05	
Polar too far from center 5					7.8	7.8 7.80 – 1.41
6					8.2	8.2 8.20 – 1.22
4						
8	4.7 4.9	5.1		5.00	3.10	8.9 8.8 8.85 – 0.75
9	5.2 5.4	5.2		5.30	3.40	~~8.8~~ w.s. 9.4 9.4 9.40 – 0.70
10	5.3 5.5	5.4		5.45	3.44	9.5 9.5 9.50 – 0.61
11	6.1 6.3	6.2		6.25	3.17	n.s.
12	6.4 6.6	6.4		6.50	3.23	
13	6.7 6.9	6.7		6.80	3.37	
14	6.7 6.9	7.3		7.10	3.42	
15		7.6	7.5	7.55	3.39	
16		7.7	7.7	7.70	3.56	
17		7.8	7.9	7.85	3.64	
18		8.2	8.1	8.15	3.77	
19		8.1	8.6	8.65	3.63	
20		8.8	8.9	8.85	3.74	
21		~~8.8~~ 9.1	9.1	9.10	3.72	
23		9.2	9.3	9.25	3.95	
25		9.5	9.5	9.50	4.23	
26		9.7	9.7	9.70	4.49	

Prin. Comp. of Polar Seq. are elongated.

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Wednesday November 13, 1912.

Scale M. $B2 = 4^h +45°$ Copied

I 32989 cont. Following Images.

Con. for Plt. 10

Stan Seq.	Rs.1	Rs.2			Prie Comps. sc.2	sc.2		
too far from centre	1				8.5	8.6	8.55 − 0.95	7.58
" "	2				8.9	8.9	8.90 − 0.81	8.09
" "	3				8.8	8.7	8.75 − 0.85	7.88
	4				9.3	9.3	9.30 − 0.68	8.62
" "	5				9.5	9.4	9.45 − 0.64	8.81
" "	6				9.1	9.6	9.65 − 0.59	9.06
off plate.	1							
	8	4.9 5.1	4.9	5.00 3.33 8.33	9.8	9.8	9.80 − 0.52	9.28
	9	4.9 5.1	5.2	5.15 3.31 8.46	9.9	9.9	9.90 − 0.51	9.39
	10	5.4 5.6	5.6	5.60 3.27 8.87				
	11	5.6 5.8	5.6	5.70 3.27 8.97				
	12	5.8 6.0	5.8	5.90 3.26 9.16				
	13	5.7 5.9	5.8	5.85 3.26 9.11				
	14	6.2 6.4	6.4	6.40 3.26 9.66				
	15	6.4 6.6	6.5	6.55 3.28 9.83				
	16	6.4 6.6	6.6	6.60 3.28 9.88				
	17	6.6 6.8	6.8	6.80 3.29 10.09				
	18	7.4	7.2	7.30 3.39 10.69				
	19	7.6	7.6	7.60 3.45 11.05				
	20	7.7	7.7	7.70 3.48 11.18				
	21	7.8	7.8	7.80 3.50 11.30				
	22	8.1	8.2	8.15 3.60 11.75				
	23	8.2	8.2	8.20 3.60 11.80				
	24	8.4	8.4	8.40 3.65 12.05				
	25	8.7	8.8	8.75 3.80 12.55				
	26	8.8	8.7	8.75 3.80 12.55				
	27	8.8	8.8	8.80 3.80 12.60				

For mean Magns of P.C. see O'R III : 101

cont	sc.2	sc.2			
28	9.1?		scratch through 28.		
29	9.5	9.4	9.45	4.8 4.14	13.59
30	9.7	9.7	9.70	4.35	14.05

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1912phae.proj.10550

Friday November 15, 1912.

Scale m.

B3 = 6 40 +45°

I 29578

Preceding Images ✓

Star. Seq.	sc.1	sc.1			Prec. Comparisons. sc.2	sc.2			
too far some	1								
too far from centre	2								
" " "	3								
	4	3.5 3.7	3.5 3.3	3.60	4.69	8.29	8.6	8.5	8.55 -0.85 7.70
	5	3.3 3.5 ~~3.2~~	3.4 3.2	3.45	4.72	8.17	8.4	8.4	8.40 -0.85 7.55
" " "	6						8.8	8.7	8.75 -0.84 7.91
" " "	7						8.9	8.8	8.85 -0.84 8.01
	8	3.9 4.1 4.2		4.15	4.62	8.77	9.4	9.4	9.40 -0.82 8.58
	9	4.4 4.6 4.8		4.70	4.54	9.24	9.6	9.6	9.60 -0.82 8.78
	10	4.9 5.1 5.1		5.10	4.49	9.59	9.9?	9.8	9.85 -0.81 9.04
	11	5.2 5.4 5.4		5.40	4.44	9.84			
	12	5.5 5.7 5.7		5.70	4.38	10.08			
	13	5.7 5.9 5.8		5.85	4.36	10.21			
	14	5.8 6.0 6.2		6.10	4.29	10.39			
	15	6.4 6.6 6.4		6.50	4.20	10.70			
	16	6.5 6.7 6.7		6.70	4.15	10.85			
	17	6.5 6.7 6.7		6.70	4.15	10.85			
	18	6.8 7.0 6.7		6.85	4.13	10.98			
	19	6.9 7.1 7.2		7.15	4.06	11.21			
	20	7.3	sc.2 7.4	7.35	4.01	11.36			
	21	7.5	7.4	7.45	4.01	11.46			
	22	8.1	8.1	8.10	3.88	11.98			
w.s. bck star to the left of 23.	23	~~7.9~~ 8.3	8.3	8.30	3.86	12.16			
	24	8.6	8.6	8.60	3.84	12.44			
	25	8.9	8.9	8.90	3.84	12.74			
	26	9.1	9.2	9.15	~~4.06~~ 3.95	13.07			

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1912phae.proj.10550

Friday November 15, 1912.

Scale m. B 3 = 6 40 +45°

I 29578 cont.

	sc.2	sc.2				Pris. Comp. sc.2	sc.2	
21	9.4	9.1		9.25	3.95	13.20		
28	9.5	9.3		9.40	4.06	13.46		
29	9.6	9.5		9.55	4.19	13.74		
30	9.8	9.1		9.75	4.33	14.07		
Polar- ⟶ 5	sc.1	sc.2	sc.1	Mean	Diff	7.4	7.2	7.30 − 0.91
too far from c) ? 6						7.8	7.8	7.80 − 0.82
? 8	3.2	3.4	3.35	3.45	4.65	9.1	9.1	9.10 − 1.00
? 9	3.7	3.9	3.85	3.85	4.85	9.6	9.3	9.45 − 0.75
10	4.2	4.4	4.3		4.35	4.54	9.6	9.6	9.60 − 0.71
11	4.6	4.8	5.1		4.95	4.47	F.	F.	7
12	4.9	5.1	5.2		5.15	4.58			
13	5.6	5.8	5.8		5.80	4.37			
14	6.2	6.4	6.4		6.40	4.12			
15	6.4	6.6	6.8		6.70	4.24			
			sc.2					
16		7.2	7.4		7.30	3.96			
17		7.6	7.6		7.60	3.89			
18		7.9	7.8		7.85	4.07			
Im. not circular. 19		8.1	sup?						
20		8.8	8.8		8.80	3.79			
21		9.2	9.1		9.15	3.67			
23		9.3	9.2		9.25	3.95			
25		9.5	9.5		9.50	4.23			
26		9.9	9.8		9.85	4.34			

Is there a star superposed on neg? - making it brighter.

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Friday November 15, 1912.

Scale m. B3 = 6 40 + 45° Copied

I 29578 cont. Following Images.

Stan. Seq. Con. for alt. +11 Prin: Companions

	sc.1	sc.2	sc.1				sc.2	sc.2			
Too far from centre	1						7.6	7.7	7.65	-0.90	6.75
" "	2						7.8	7.8	7.80	-0.89	6.91
" "	3						8.2	8.2	8.20	-0.86	7.34
	4	34 36	3.6 34	3.60	4.69	8.29	8.1	8.6	8.65	-0.85	7.80
	5	32 34	3.4 3.2	3.40	4.71	8.11	8.5	8.5	8.50	-0.85	7.65
" "	6						8.1	8.8	8.75	-0.84	7.91
" "	7						8.6	8.8	8.70	-0.85	7.85
	8	4.0 3.8 4.2	4.4	4.30	4.60	8.90	9.4	9.4	9.40	-0.82	8.58
	9	4.1 4.9	4.7	4.80	4.51	9.31	9.6	9.6	9.60	-0.82	8.78
	10	4.9 5.1	5.2	5.15	4.46 9	9.61 4	sup.	sup.			
	11	5.3 5.5	5.3	5.40	4.44	9.84					
	12	5.1 5.9	5.7	5.80	4.36	10.16					
	13	5.8 6.0	5.9	5.95	4.31	10.26					
	14	5.8 6.0	6.2	6.10	4.30	10.40					
	15	6.5 6.7	6.4	6.55	4.18	10.73					
	16	6.7 6.9	6.7	6.80	4.13	10.93					
	17	6.5 6.7	6.1	6.70	4.15	10.85					
	18	6.7 6.9	6.8	6.85	4.13	10.98					
	19	6.8 7.0	7.2	7.10	4.07	11.17	Cont.				
	20	7.3	sc.2 7.4	7.35	4.01	11.36	27	9.1	9.2	9.15	3.95 4.06 2	13.07
	21	7.4	7.4	7.40	4.01	11.41	28	9.5	9.8 4	9.45	4.06 10	13.55
	22	8.1	8.1	8.10	3.88	11.98	29	9.4	9.4	9.40	4.06	13.46
	23	8.4	8.7	8.55	3.84	12.39	30	9.7	9.7	9.70	4.28	13.98
	24	8.7	8.9	8.80	3.84	12.64						
	25	8.9	9.1	9.00	3.86	12.86						
	26	9.1	9.2	9.15	3.95 4.06 7	13.10 07						

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1912phae.proj.10550

Tuesday November 19, 1912

Scale m.

I 3+049 Lost field B3 = 640 + 45

Preceding Images.

Star Seq.	sc.1	sc.2	sc.2				Prec. Comps. sc.2	sc.2		
1							8.9	8.9	8.90	In curve See Bkp 3:102
2							9.4	9.3	9.35	
3							def.			
4	5.6 5.8	5.7		5.75	1.82	7.57	8.8	8.8	8.80	
5	5.6 5.8	5.6		5.70	1.83	7.53	~~8.8~~ n.s.			
6	5.9 6.1	6.1								
7										
8	6.6 6.8	6.7		6.75	1.79	8.54				
9	6.8 7.0	7.2		7.10	1.82	8.92				
10		7.5	7.6	7.55	1.90	9.45				
11		7.6	7.7	7.65	1.90	9.55				
12		7.8	7.7	7.75	1.94	9.69				
13		8.1	8.1	8.10	2.00	10.10				
14		8.2	8.2	8.15	2.03	10.18				
15		8.4	8.4	8.40	2.09	10.49				
16		8.6	8.7	8.65	2.18	10.83				
17		8.4	8.6	8.50	2.12	10.62				
18		8.5	8.7	8.60	2.18	10.78				
19		8.7	8.7	8.70	2.22	10.92				
20		8.9	8.9	8.90	2.35	11.25				
21		9.1	9.2	9.15	2.52	11.67				
22		9.5	9.5	9.50	2.77	12.27				
23		9.7	9.7	9.70	3.00	12.70				
24										

Not a good plate. Images are circular but plate does not show ft. stars. P.C. for most of it. Star pairs on it?

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1912phae.proj.10550

Tuesday November 19. 1912 -

Scale m

B 3 = 6 40 +45°

I 340 49 cont

Polar Sequence.

		Rc.1	Rc.2		Mean	Diff	P.C. Rc.2	Rc.2	
	5	4.2 4.4	4.4		4.40	1.99	8.1	8.1	8.40 - 2.31
bri far away.	6						9.4	9.3	9.35 - 2.37
	8	6.1 6.3	6.4		6.35	1.75	9.8	9.1	9.75 - 1.65
	9	6.8 7.0	7.1		7.05	1.65	n.s.		
	10	6.8 7.0	7.1		7.05	1.84			
	11		7.4	7.4	7.40	2.02			
	12		7.7	7.7	7.70	2.03			
	13		8.2	8.1	8.15	2.02			
	14		8.4	8.4	8.40	2.12			
	15		8.6	8.6	8.60	2.34			
	16		8.9	8.9	8.90	2.36			
	17		9.2	9.1	9.15	2.34			
	18		9.4	9.4	9.40	2.52			
	19		def?						
	20		9.6	9.6	9.60	2.99			
	21		9.6	9.6	9.60	3.22			
	22		9.9		9.90	3.15			

See note on preceding page.

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1912phae.proj.10550

Tuesday November 19, 1912.

Scale M.

B3 = 6 40 +45° keeping

I 3407 49 cont. Following Images.

Star Seq.	Rc 1	sc 2	sc 2			Pris. Comps. sc 2	sc 2	
to far from centre 1						8.1	8.8	8.75
" " 2						9.2	9.3	9.25
" " 3						9.4	9.4	9.40
4	5.6 5.8	5.7		5.75	1.83	7.58	8.7	8.7	8.70
5	5.4 5.6	5.3		5.45	1.87	7.32	9.1	Parallel.
" " 6	5.9 6.1	6.1		6.10	1.80	7.90		
" " 7								
8	6.1 6.9	6.7		6.80	1.79	8.59		
9	6.1 6.9	6.7		6.80	1.79	8.59		
10		7.4	7.4	7.40	1.87	9.27		
11		7.6	7.4	7.50	1.88	9.38		
12		7.6	7.6	7.60	1.90	9.50		
13		7.9	7.9	7.90	1.95	9.85		
14		7.8	7.8	7.80	1.94	9.74		
15		8.2	8.2	8.20	2.03	10.23		
16		8.4	8.3	8.35	2.08	10.43		
17		8.5	8.4	8.45	2.08[10]	10.55		
18		8.5	8.4	8.45	2.08[10]	10.55		
19		8.5	8.5	8.50	2.13	10.63		
20		8.7	8.6	8.65	2.18	10.83		
21		8.9	9.1	9.00	2.40	11.40		
22		9.4	9.5	9.45	2.68[11]	12.16		
23		9.7	9.7	9.70	2.99	12.69		
24								

No curve. Le B3 3:102

See note on p. 176.

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1912phae.proj.10550

Saturday November 23, 1912.

Scale U.

10:05		MC 2120 L Pole		MC 2121 L Pole.		MC 2125. L Pole.	
		sc.1	sc.2 Diff.	sc.1	sc.2		
	10	5.6	+ 3.29	5.1	3.79	5.3	3.59
	11	6.2	3.22	5.6	3.82	5.8	3.62
	12	6.3	3.43	5.7	4.03	6.2	3.52
w.s.	13	6.6	3.57	6.3	3.87	6.6	3.57
	14	6.8	3.72	6.6	3.92	6.1	3.82
	15	7.2	3.74	6.8	4.14	6.9	4.04
	17	7.6 sc.2.	7.7 3.84	7.4	4.09	7.5	3.99
	18	8.2	3.72	7.9	7.8 4.07	7.7	7.7 4.22
	19	8.4	3.88	~~8.1~~	8.1 4.18	~~8.2~~	8.2 4.08
	20	8.7	3.89		8.4 4 8.19		8.4 4 3.19
	23	9.1	4.10	~~8.7~~	8.7 4.50	~~8.4~~	8.7 4.50
	25	9.4	4.33		9.4 4.33		9.2 4.53
	26	9.7	4.49		9.6 4.59		9.4 4.79
	27			Plotted			9.7 4.85
		Plotted					Plotted

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1912phae.proj.10550

Saturday November 23, 1912.

Scale ℵ.

	Mc 2129 L Pole.			Mc 2134 L Pole.			Mc 2139		
	sc.1	sc 2		sc.1	sc 2		sc.1	sc 2	
10	5.2		3.69	5.2		3.69	5.1		3.79
11	5.1		3.72 ~~4.22~~	~~5.5~~ 5.1		3.72 ~~4.22~~	5.6		3.82 ~~4.32~~
12	5.8		9 3.53	5.8		9 3.53	5.9		8 3.83
13	6.4		3.77	6.4		3.77	6.3		3.87
14	6.6		3.92	6.1		3.82	6.6		3.92
15	6.8		4.14	6.8		4.14	6.7		4.24
#									
17	7.4	7	4.09	7.3		4.19	7.4		4.29
18	7.6	7.7	4.27	7.7	7.6	4.27	7.8	7.7	4.17
19		8.1	4.18		8.2	4.08	8.0		4.28
20		8.2	4.39		8.3	4.39	8.3		4.29
23		8.6	4.60		8.6	4.60	8.7		4.50
25		9.2	4.53		9.4	4.33	9.2		4.53
26		9.4	4.79		9.6	4.59	9.5		4.69
27		9.7	4.85				9.8		4.75
	Plotted			Plotted			Plotted		

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1912phae.proj.10550

Saturday November 23, 1912.

Scale 11

	Mc 2140 L Pole.			Mc 2142 L Pole (60m)			Mc 2143 L Pole.		
	pc.1	pc.2		pc.1	pc.2		pc.1	pc.2	
10	4.8		4.09	3.8		5.09	5.2		3.69
11	5.6		3.82 ~~4.32~~	4.5		4.92	5.8		3.62 ~~4.12~~
12	5.7		4.03	4.7		5.03	6.2		3.53
13	6.3		3.87	5.2		4.97	6.6		3.57
14	6.6		3.92	5.6		4.92	6.8		3.72
15	6.8		4.14	5.9		5.04	7.2		3.74
17	7.5		3.99	6.6		4.89	7.6		3.89
18	7.7	7.6	4.32	6.7		5.22	7.9	7.9	4.02
19	8.	8.2	4.08	7.2		5.08		8.3	3.98
20		8.4	4.19	7.3		5.29		8.6	3.99
23		8.8	4.40	7.8	7.8	5.40		9.1	4.10
25		9.2	4.53	~~8.4~~	8.4	5.33		9.4	4.33
26		9.4	4.79	~~8.5~~	8.5	5.69		9.6	4.59
27		9.7	4.85	~~8.6~~	8.6	5.95			
28				~~8.7~~	8.7	6.27			
29				~~9.4~~	9.4	6.12			
30				~~9.6~~	9.87	6.20			
	Plotted			Plotted			Plotted		

12.40

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1912phae.proj.10550

Wednesday November 27, 1912.

Scale U.

MC 2121. Pole L.

	Sc. 1	Sc. 2	Prie Comp. Sc. 1	Prie Comp. Sc. 2
see below for Pc. 1 bit stain ↓				
10	4.9	3.99	8.6	0.29
11	5.1	4.32	9.2	0.22
12	5.3	4.43	9.3	0.43
13	5.8	4.37	9.6	0.57
14	6.4	4.12	9.7	0.82
15	6.1	4.24	10.0	0.94
17	7.4	4.09		
18	7.7	7.1 4.22		
19		8.1 4.18		
20		8.3 4.29		
23		8.1 4.50		
25		9.3 4.43		
26		9.4 4.79		
27		9.8 4.75		
5			5.7	0.69
6			6.4	0.58
8			7.7 7.8	0.30
9			8.4	0.30

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Wednesday November 27, 1912.

Scale U.

Mc 2122 Pole L'

	sc 1	sc 2	Diff. from Pfg.
10	7.3		1.59
11	7.1	7.7	1.72
12		8.3	1.43
13		8.8	1.37
14		9.2	1.32
15		9.4	1.54
17		n.s.	
18			
19			
20			
23			
25			
4 a		8.3	
5 a		8.4	
6 a	7.3		
7 a		8.2	
8 a		8.1	
9 a		9.5	

Mc 2123 (1 + 15°) L'.

	sc 1	sc 2	Curve reading.	
1	4.6			
3	4.5			
5	5.8		2.55	8.35
6	5.7		2.60	8.30
7	4.8			magn.
8	6.6		2.22	8.82
9	6.3		2.34	8.64
10	6.3?		2.34	8.64?
11	7.2		1.98	9.18
12	7.8		1.78	9.58
13	6.7		2.19	8.89
14		8.4	1.59	9.99
15		9.4	1.28	10.68
17		9.8?	1.16	10.96

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Wednesday November 26, 1912.

Scale U.

	Mc 2124 (1+15°) L.		Mc 2126 Pole L'.		
	pc 1	pc 2			Diff. from Pty.
1	3.1		10	6.8	2.09
5	4.5		12	7.8	7.1 1.93
6	4.7		12½	7.5	1.92
7	4.7		13	8.4	1.77
8	5.2		14	8.1	1.82
9	5.3		15	9.3	1.64
10	pup.		~~16~~		
11	5.8		12	7.8	
12	6.0		5r	8.1	
13	6.2		6r	7.2	
14	6.4		7r	7.7	
15	6.7		8r	8.6	
16	7.1		9r	9.2	
17	7.3				
18	7.6				
19	7.8				
20	7.9	7.9			
21		8.4			
22		8.6			
23		8.7			
24		8.6			
very close to a bit star 25		9.0?			
26		9.4			

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Wednesday November 26, 1912.

Scale U.

	Mc 2130 Pole L'		Mc 2131 ~~L(T+15°)~~
	Rc 1	Rc. 2	
10	6.8		
11	7.8	7.1	
12		8.1	
13		8.6	
14		9.4 ~~8.3~~ w.s.	
15		9.8	
4R		8.2	
5R		8.6	
6R	6.9	7.1	
7R		8.4	
8R		9.3	
9R		9.7	

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Wednesday November 26, 1912.

Scale U.

Mc 2129 L Pole.

	Reg.		
10	5.2		369
11	5.5		392
Error of a unit 12	5.7		403
" " 13	6.2		397
14	6.6		392
15	6.7		424
16			
17	7.2		429
18	7.6		432
19	7.7	1.8	448
20		8.3	429
23		8.6	460
25		9.8'	463
26		9.4	479
27		9.7	485

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Friday November 29, 1912.

Scale 11.

	MC 2129 L Pole Remeas.			MC 2130 L' Pole.		
	Sc. 1	Sc. 2.		Sc. 1	Sc. 2	Diff from Obj.
10	5.2		3.69	6.1		2.19
11	5.5		3.92	7.6	7.7	1.82
12	5.8		3.93		8.2	1.53
13	6.3		3.87		8.6	1.57
14	6.4		4.12		9.5	1.02
15	6.7		4.24		9.9	1.24
~~16~~				4r	8.2	
17	7.3		4.19	5r	8.6	
18	7.6		4.32	6r	7.2	
19	7.8	7.8	4.48	7r	8.4	
20		8.2	4.39	8r	9.3	
23		8.6	4.60	9r	9.7	
25		9.2	4.53			
26		9.4	4.79			
27		9.6	4.95			

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Friday November 29. 1912.

Scale 2.

	Mc 2132½ L (1+15°)		Mc 2132-L' (1+15°)			
	Rc.1	Rc.2	~~Rc.1~~	Rc.1	Rc.2	curve. Magn.
1	3.2		5.2			
5	4.3		5.9			2.52 8.42
6	4.3		5.7			2.60 8.30
7	4.6		5.3			
8	4.8		6.8			2.14 8.94
9	4.8		6.6			2.23 8.83
double. 10			double.			
11	5.4		7.4	7.4 7.40		1.92 9.32
12	5.7			8.1		1.69 9.79
must have max. w.s. 13	~~6.7~~ 5.8			6.8		2.14 8.94
14	6.3		~~8.4~~	8.7		1.50 10.20
15	6.5			9.4		1.28 10.68
16	6.7			9.43		1.31 10.61
17	7.3			9.8		1.16 10.96
18	7.4					
19	7.6					
20	7.8	1.8				
21		8.2				
22		8.7				
23		8.8				
24		8.7				
very close to edge 25		8.9				
26.		9.4				

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Friday November 29, 1912.

Scale U.

Mc 2133 3 equ. Pole.
~~1st equ~~. 3rd equ. 4m.

	Nc.1	Nc.2	
10	5.6		3.29
11	6.0		3.42
12	6.2		3.53
13	6.6		3.57
14	7.2		3.32
15	7.4		3.54
17	7.6		3.89
18	8.5		3.42
	2nd eq.		
10	6.3		2.59
11	6.5		2.92
12	6.9		2.83
13	7.4		2.77
14	7.6	7.6	2.92
15		8.2	2.74
17		8.4	3.09
18		8.8	3.12
	3rd eq.		2.09
10	6.8		
11	7.4		2.02
12	7.6		2.13
13	~~7.5~~ 8.2		1.97
14	8.5		2.02
15	8.6		2.34
17		8.8	2.69
18		9.6	2.32

Error of a unit.

Mc 2134 L Pole.

	Nc.1	Nc.2	
10	4.9		3.99
11	5.3		4.12
12	5.7		4.03
13	6.2		3.97
14	6.4		4.12
15	6.8		4.14
17	7.3		4.19
18	7.1	7.8	4.12
19		8.1	4.18
20		8.3	4.29
23		8.6	4.60
25		9.2	4.53
26		9.5	4.69
27		9.8	4.75

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Friday November 29, 1912.

Scale u.

Mc 2135 Pole L'

	ec 1	ec. 2	Diff from Obj
10	6.4		2.49
11	7.5		1.92
12	7.6		2.13
13		8.1	1.47
14		~~8.9~~ 9.2	1.32
15		9.6	1.34
17		9 n.s.	
4r		8.1	
5r		8.4	
6r	7.0		
7r	7.8	7.8	
8r		9.1	
9r		9.7	

Mc 2136 L(1+15.°)

	ec 1	ec 2
1	3.1	
5	4.2	
6	4.3	
7	4.6	
8	4.8	
9	4.9	
10	double.	
11	5.3	
12	5.8	
13	5.7	
14	6.2	
15	6.6	
16	6.7	
17	7.2	
18	7.6	
19	7.7	7.8
20		8.2
21		8.4? 8.6
22		9.2
23		9.2
24		9.4
25	too close to bri star. not certain of measure	
26		9.9

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Friday November 29, 1912.

Scale 11.

Mc 2137 ℓ' (1+15)

	sc. 1	sc. 2	curve.	
1	4.8		2.?	
5	6.3		2.34	8.64
6	5.8		2.55	8.35
7	4.8			
8	6.8		2.14	8.94
9	6.3		2.34	8.64
10	double.			
11	7.4		1.92	9.32
12	7.8		1.78	9.58
13	6.7		2.18	8.88
14		8.4	1.59	9.99
15		8.7	1.50	10.20
16		8.8	1.46	10.26
17		9.6	1.22	10.82
18		9.6?	1.22	10.82
19		F.		F

Mc 2138 Pole ℓ'

	sc. 1	sc. 2	Diff. from Reg.
10	6.7		2.19.
11	7.6		1.82
12	7.8	7.7	1.93
13		8.6	1.57
14		9.3	1.22
15		9.6	1.34
17			
4r	7.8		
5r	8.4		
6r	6.9		
7r	8.4		
8r	8.8		
9r	9.6		

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Friday November 29, 1912.

Scale 2.

Mc 2139 Pole L.

	Dec. 1	Dec. 2	
10	5.2		3.69
11	5.6		3.82
12	~~5.8~~ 5.8		3.93
13	6.2		3.97
14	6.6		3.92
15	6.8		4.14
17	7.2		4.29
18	7.6	7.6	4.32
19		8.1	4.18
20		8.4	4.19
23		8.6	4.60
25		8.9	4.83
26		9.3	4.89
27		9.7	4.85

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1912phae.proj.10550

Saturday November 30, 1912

Scale U.

	Mc 2139 Pole L.			Mc 2140 Pole L.		
	pc 1	pc 2		pc 1	pc 2	
10	5.0		3.89	5.1		3.79
11	5.5		3.92	5.5		3.92
12	5.7		4.03	5.7		4.03
13	6.2		3.97	6.2		3.97
14	6.6		3.92	6.4		4.12
15	6.6		4.34	6.8		4.14
17	7.3		4.19	7.4		4.09
18	7.6	7.7	4.32	7.6		4.32
19		8.1	4.18	8.0	7.9	4.28
20		8.4	4.19		8.3	4.29
23		8.6	4.60		8.6	4.60
25		8.8 9.0	4.73		9.3	4.63
26		9.4	4.79		9.4	4.79
27		9.7	4.85		9.7	4.85

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1912phae.proj.10550

Saturday November 30, 1912.

Scale ~

MC 2141 L' Pole.

	Dec 1	Dec 2	Diff from Ptg
10	6.2		2.69
11	7.4	7.5	2.02
12		8.2	1.53
13		9.4	0.77
14		9.6	0.92
15			
4 r		8.2	
5 r		8.7	
6 r	6.8	6.8	
7 r		8.7	
8 r		9.6	
9 r		9.9 ?	

Very ft.

MC 2142 L. Pole. 60m.

	Dec 1	Dec 2	
10	3.7		5.19
11	4.8		5.12
12	4.7		5.03
13	5.3		4.87
14	5.4		5.12
15	5.7		5.24
~~16~~			
17	6.4		5.09
18	6.7		5.22
19	7.2		5.08
20	7.3		5.29
23	7.6		5.60
25	~~8.4~~	8.1	5.63
26	~~8.4~~	8.4	5.79
27		8.6	5.95
28		8.8	6.17
29		9.4	6.12
30		9.7	6.20
31			
5			
6			
8			
9			

Pris Comp.
see below for P.C bit stars.

Dec 1	
7.3	1.59
7.1	1.72
8.2	1.53
8.5	1.67
8.7	1.82
8.8	2.14 large + ft.
9.4	2.09
9.7	2.22
?	
4.8	1.59
5.2	1.78
6.3	1.80
6.8	1.90

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1912phaa.proj.10550

Saturday November 30, 1912.

Scale 11.

	Mc 2143 L Pole 10m.			Mc 2144 L' Pole 4m esp.		
	sc.1	sc.2		Prin. Comp. see below for Brit. P.C.	sc.1	sc.2 Diff. from Obj.
10	5.2		3.69	8.6 0.29		8.3 0.59
11	5.6		3.82	9.4 0.02		8.6 0.82
12	5.9		3.83	9.5 0.23		8.8 0.93
13	6.3		3.87	9.8 0.37		9.5 0.67
14	6.6		3.92		4R	9.0
15	6.8		4.14		5R	9.5
17	7.4		4.09		6R SR	8.7
18	7.8	7.8	4.12		7R	9.4
19		8.2	4.08		8R	9.1 ?
20		8.5	4.09			
23		8.7	4.50			
25		9.2	4.53			
26		9.5	4.69			
27		9.8 ?	4.75			
5				5.7 0.69		
6				6.4 0.58		
8				7.8 0.40		
9				8.4 0.30		

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1912phae.proj.10550

Saturday
~~Wednesday~~ December 7, 1912.

copied

Scale O.

Bright Stars near the North Pole.

Ac 11 6 17

	sc.1	sc.3	sc.1		Diff.
1	B.				
2	1.9		1.8	1.85 10	3.39
3	2.1		2.1	2.70 00	3.04
4	3.1		3.0	3.05 10	2.86
5	3.8		3.9	3.85 01	2.54
6	4.8		5.0	4.90 11	2.08
7	5.2	B.	5.2	5.20 00	1.98
8	6.9	6.2		6.25 10	1.85
9	6.7	6.7		6.70 00	2.00
10	7.2	7.3		7.25 01	1.64
11	~~8~~	~~8.2~~ 7.9	sc.3 7.8	7.85 10	1.57
12		8.4	8.3	8.35 01	1.38
				Curve	Magn.
Bit stars 13	6.8	6.7	6.75 01	+1.75	8.50
83	6.9	6.8	6.85 10	1.74	8.59
105	5.8	5.8	5.80 00	1.95	7.75
132	6.6	6.7	6.65 01	1.78	8.43
238	6.7	6.7	6.70 00	1.76	8.46
496	6.6	6.5	6.55 01	1.81	8.36
601	5.7	5.8	5.75 10	1.95	7.70
684	6.9	6.8	6.85 ~~01~~ 10	1.74	8.59
729	6.8	6.8	6.80 00	1.74	8.54
765	6.2	6.2	6.20 00	1.86	8.06
778	6.4	6.4	6.40 00	1.83*	8.23
949	7.4	7.3	7.35 01	1.64	8.99

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copied.

Saturday December 7, 1912.

Bright Stars near the North Pole. cont.

	sc.1	sc.3	sc.1				curve	Magn.
977	6.5	6.4				6.45	+1.83	8.28
1011	7.4	7.2				7.30	1.64	8.94
1016	6.7	6.8				6.75	1.75	8.50
1100	6.6	6.6				6.60	1.79	8.39
1109	5.1 4.8	4.8 (B)	4.8	4.8	4.8	4.88	2.16	7.04
1156	7.2	7.0				7.10	1.69	8.79
1171 (2046 - W.S.)	5.2 ~~5.4~~ 4.9	4.9 (B)	4.9	4.9	4.9	4.98	2.14	7.12
2001	7.2	7.4				7.30	1.64	8.94
2004	7.1	7.1				7.10	1.69	8.79
2009	7.3	7.3				7.30	1.64	8.94
2034	6.8	6.8				6.80	1.75	8.55
2035	6.4	6.4				6.40	1.83	8.23
2036	6.4	6.3				6.35	1.84	8.19
2046	6.4	6.4				6.40	1.83	8.23
2049	6.8	6.9				6.85	1.74	8.59
2, n	5.6	5.4				5.50	2.00	7.50
2, s	4.1	B.	3.9			4.00	2.48	6.48
3 ∞	4.4	B.	4.4			4.40	2.32	6.72
4 n	6.8	6.9				6.85	1.74	8.59
3 n	6.8	6.7				6.75	1.75	8.50

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1912phae.proj.10550

Saturday December 21, 1912.

Scale m. Standard Sequence B7 -17h 20m +45° Exposed

Bon. for cat. +00

I 34041.

L. H. Images. N. down. Prec. Foll.

~~Sc.~~ see below.

	sc.1	sc.2	sc.1		
1	2.0 2.2		2.0 2.20		
too far from centre? 2	2.3 2.5		2.5 2.60		
" " " 3					
too far from centre. 4					
" " 5					
" " 6					
7	3.0 3.2		3.0 3.20		
8	2.8 3.0		2.9 3.05 ~~2.96~~		
" " ? 9	3.5 3.7		3.6 3.85	3.91	7.66
10	3.7 3.9		3.8 ~~3.95~~	3.92	7.87
11	3.8 4.0	3	3.9 ~~3.95~~ 4.05	3.92	7.97
" " ? 12	4.6 4.8	4.8	4.80	3.97	8.77
13	4.3 4.5	4.9	4.70	3.96	8.66
14	4.7 4.9	5.1	5.00	3.99	8.99
15	4.9 5.1	5.2	5.15	4.00	9.15
16	5.3 5.5	5.5	5.50	4.02	9.52
17	5.7 5.9	5.8	5.85	4.03	9.88
18	6.3 6.5	6.5	6.50	4.07	10.57
19	6.3 6.5	6.3	6.40	4.07	10.47
20	6.4 6.6	6.7	6.65	4.08	10.73
21	6.7 6.9	7.2	7.05	4.10	11.15
22	6.7 6.9	7.0	6.95	4.10	11.05
23		7.4	sc.2 7.5	7.45	4.13	11.58
24		7.6	7.6	7.60	4.14	11.74
25		8.1	7.8	7.95	4.15	12.10
26		8.2	7.9	8.05	4.15	12.20
27		8.2	8.1	8.15	4.16	12.31
28		8.6	8.5	8.55	4.22	12.77

29	9.4	9.4		9.40	4.30	13.70
30	9.5	9.6		9.55	4.33	13.88
31	~~9.7~~ n.s.	w.s.	~~on~~	-		

Pris Comp.

	sc 2	sc 2		
1	7.4	7.4	7.40 -0.95	6.45
2	7.7	7.8	7.75 -0.85	6.90
3	7.6	7.6	7.60 -0.90	6.70
4	8.4	8.3	8.35 -0.71	7.64
5	8.5	8.4	8.45 -0.71	7.74
6	8.5	8.6	8.55 -0.66	7.89
7	8.6	8.6	8.60 -0.66	7.94
8	8.4	8.4	8.40 -0.71	7.69
9	8.7	8.7	8.70 -0.64	8.06
10	8.8	8.8	8.80 -0.62	8.18
11	9.4	9.4	9.40 -0.45	8.95
12	9.6	9.6	9.60 -0.38	9.22
13	9.8	9.8	9.80 -0.32	9.48
14				
15				
16				
17				
18				
19				

(Hereafter use Pr. for 5 & 29 of Prec. seq.)

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Saturday December 21, 1912.

Scale M Standard Sequence B7 cont.

I 34041.

		sc 1	sc 2	sc 2		Prin. Comp. sc. 2		
Polar	5					7.4	7.4	7.40 -1.01
	6					7.8	7.7	7.75 .77
	8					8.7	8.7	8.70 ~~.52~~ .60
	9					9.4?	? very uncertain about P.C.	
	10	4.8 5.0	4.9		4.95 3.94	9.6	9.6	9.60 .71
	11	5.3 5.5	5.2		5.35 4.07	.	.	do not find.
	12	5.6 5.8	5.7		5.75 3.98	9.8?	9.8	9.80 - .07
	13	5.9 6.1	6.1		6.10 4.07			
	14	6.2 6.4	6.5		6.45 4.07			
	15	6.7 6.9	6.8		6.85 4.09			
	16	6.8 7.0	7.0		7.00 4.26			
	17	?	7.5	7.4	7.45 4.04			
	18		7.8	7.8	7.80 4.12			
	19		8.2	8.1	8.15 4.13			
	20		8.5	8.4	8.45 4.14			
	21		8.7	8.6	8.65 4.17			
	23		8.9	8.8	8.85 4.35			
	25		9.4?	9.4	9.40 4.33			
	26		9.9	9.9	9.90 4.29			

on Polar Seq.
P.C's not easily found - faint.

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1912phae.proj.10550

Saturday December 21, 1912.

Scale m. Standard Sequences B7 - Kopeik.

I 3 to 4 1

R.H. Images - N. down - S. Foll. Prec.

		Corr. for alt. 9° sc 1	sc 2	sc 1		Pris. Comp.				
	1	1.9 2.1	2.0 2.2	2.15		7.4	7.4	7.40 - 0.95	8.35	6.75
too far from centre?	2	2.4 2.6	2.7 2.6	2.60		7.7	7.8	7.75 - 0.85	8.60	6.90
" " ?	3	2.6 2.8	2.6 2.8	2.80		~~7.8~~ 7.7	7.6	7.65 - 0.90	8.55	6.75
too far from centre	4					~~8.6~~	~~8.6~~ 8	~~7.60 - 0.90~~ 8 - 0.66	~~8.50~~ 7.94	~~6.70~~
"	5					8.3	8.3	8.30 - 0.74	9.04	7.56
"	6					8.6	8.7	8.65 - 0.65	9.30	8.00
	7	3.2 3.4	3.3 3.6	3.45		8.6	8.7	8.65 - 0.65	9.30	8.00
	8	2.8 3.0	2.8 3.0	3.00		8.4	8.4	8.40 - 0.71	9.11	7.69
" " ?	9	3.6 3.8	3.6 3.8	3.80 3.91 7.71		8.6	8.7	8.65 - 0.65	9.30	8.00
" " ?	10	3.7 3.9	3.7 3.9	3.90 3.92 7.82		8.8	8.8	8.80 - 0.62	9.42	8.18
	11	4.3 4.5	sc. 2 4.2	4.35 3.94 8.29		9.5	9.4	9.45 - 0.45	9.90	9.00
" " ?	12	4.7 4.9	5.1	5.00 3.99 8.99		9.7	9.7	9.70 - 0.35	10.05	9.35
	13	4.4 4.6	4.6	4.60 3.96 8.56		9.7	9.7 ?	9.70 ? - 0.35	10.05	9.35 ?
	14	4.7 4.9	~~5.1~~ 4.9	4.90 3.98 8.88						
	15	5.2 5.4	5.1	5.25 4.00 9.25						
scratch almost thru	16	5.4 5.6	5.6	5.60 4.02 9.62						
	17	5.7 5.9	5.9	5.90 4.04 9.94		cont. sc. 2	sc. 2.			
	18	6.2 6.4	6.4	6.40 4.07 10.47		27. 8.2	8.2	8.20 4.17	12.37	
	19	6.2 6.4	6.6	6.50 4.07 10.57		28. 8.4	8.4	8.40 4.20	12.60	
	20	6.7 6.9	6.8	6.85 4.09 10.94		29. 9.4	9.4	9.40 4.30	13.70	
	21	6.8 7.0	7.2	7.10 4.10 11.20		30. 9.5	9.5	9.50 4.31	13.81	
	22	6.7 6.9	6.7	6.80 4.08 10.88		31. do not find any trace of it.				
	23		sc 2 7.3	7.4 7.35 4.13 11.48						
	24		7.6	7.5 7.55 4.14 11.69						
	25		7.8	7.8 7.80 4.15 11.95						
	26		8.3	8.3 8.30 4.19 12.49						

P.C. for no 4 re-examined on Nov. 24, 1913. and found to be about a magn. out.

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1912phae.proj.10550

Tuesday December 31, 1912

Scale m. Standard Sequence (copied) B 4 - 9h 20m +45°

I 27925

Conf for alt. +.06

Prec. S. Down L 14. I magn.

Prec. Comp.

	Sc.1	Sc.2	Sc.			Sc.1	Sc.2			
			3.3			* 8	8	8	1.25	7.15
1	3.0	3.2	3.1	3.25		~~7.4~~	~~7.4~~	~~7.40 – 1.47~~		5.93
two features	2	.				8.4	8.4	8.40 – 1.25		7.15
" ?	3	3.3	3.5	3.5	3.40	8.7	8.6	8.65 – 1.20		7.45
" ?	4	.				9.1	8.9	9.00 – 1.09		7.91
" "	5	.				9.3	9.3	9.30 – 1.01		8.29
" "	6	.				9.4	9.4	9.40 – 0.98		8.42
" "	7	.				9.4	9.5	9.45 – 0.98		8.47
	8	4.5 4.7	5.0		4.85 3.62	8.47	9.6	9.6	9.60 – 0.93	8.67
	9	4.7 4.9	5.2		5.05 3.61	8.66	9.6	9.7	9.65 – 0.93	8.72
	10	5.2 5.4	5.6		5.50 3.60	9.10	9.9	10.0	9.95 – 0.80	~~8.15~~ 8.17 9.15
	11	5.5 5.7	5.8		5.75 3.60	9.35				
	12	5.6 5.8	5.8		5.80 3.60	9.40				
	13	5.7 5.9	5.8		5.85 3.60	9.45				
	14	6.2 6.4	6.3		6.35 3.59	9.94				
	15	6.4 6.6	6.4		6.50 3.59	10.09				
	16	6.7 6.9	6.8		6.85 3.59	10.44				
	17		7.3	7.3	7.30 3.60	10.90				
	18	~~7.9~~	7.2	7.4	7.30 3.60	10.90	cont.	Sc.2		
	19		7.7	7.6	7.65 3.62	11.27	27	9.3	9.2	9.25 3.84 13.09
	20		8.3	8.3	8.10 3.65	11.75	28	9.3	9.3	9.30 3.86 13.16
no error of identification	21		7.4	7.4	7.40 3.60	11.00	29	9.4	9.4	9.40 3.90 13.30
	22		8.4	8.3	8.35 3.68	12.03	30	9.6	9.6	9.60 3.98 13.58
	23		8.4	8.4	8.40 3.68	12.08	31	pup.		
	24		8.6	8.4	8.50 3.69	12.19				
	25		8.6	8.5	8.55 3.70	12.25				
	26		8.9	8.8	8.85 3.73	12.58				

* Re-examined Apr. 4, 1914. Error of a unit assumed. Made independent measure 8.5. M.O.R.

Images on this exposure not circular.

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1912phae.proj.10550

Tuesday. December 31. 1912.

Scale m- Star-Sequence B4 $9^h\ 20^m$ +45°

Polar

I 27925 Cont.

	pc.1	pc.2		Mean.	Diff.
5					
6					
8					
9					
10	5.2 5.4	5.3		5.35	3.54
11	5.6 5.8	5.6		5.70	3.72
12	5.8 6.1	6.1		6.10	3.63
13	6.4 6.6	6.7		6.65	3.52
14	6.7 6.9	6.9		6.90	3.62
15	7.3	7.3		7.30	3.67
16	7.6	7.6		7.60	3.66
17	7.9?	7.9	very close to star on Stan. Seq.	7.90	3.59
18	8.3	8.4		8.35	3.57
19	8.6	8.6		8.60	3.68
20	8.8	8.8		8.80	3.79
21	9.1	9.2		9.15	3.67
23	9.4	9.4		9.40	3.80
25	9.6	9.7		9.65	4.08
26	10.0?	10.0?		10.00?	4.19

O.C.

7.7	7.7	7.70	- 1.31
8.4	8.4	8.40	- 1.42
9.0	9.1	9.05	- 0.95
9.4	9.5	9.45	- 0.75
9.9	9.9	9.90	- 1.01

N.S.

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Tuesday December 31, 1912.

Scale m - Stan. Seq. B4 $9^h 20 +45°$ Copied

I 27925 cont. Foll. Images.

Con. for dth +.06

	sc.1	sc.2							
1	3.1 33		3.1 33	3.30		* 8	8	8. 1.25	7.15
too far from c. 2						7.4	7.4	7.40 - 1.47	5.93
" ? 3	3.3 35		35 3.40			8.4	8.4	8.40 - 1.25	7.15
" ? 4						8.6	8.7	8.65 - 1.20	7.45
" " 5						9.1	9.0	9.05 - 1.09	7.96
" " 6						9.4	9.3	9.35 - 0.98	8.37
" " 7						9.4	9.5	9.45 - 0.98	8.47
8	4.7 49	4.9		4.90 3.62	8.52	9.6	9.6	9.60 - 0.93	8.67
9	4.8 50	5.1		5.06 3.61	8.66	9.7	9.7	9.70 - 0.90	8.80
10	5.4 56	5.4		5.50 3.59	9.09				
11	5.6 58	5.8		5.80 3.59	9.39				
12	5.8 60	5.9		5.95 3.60	9.55				
13	5.8. 60	5.8		5.90 3.60	9.50				
14	6.3 65	6.3		6.40 3.59	9.99				
15	6.7 69	6.6		6.75 3.60	10.35				
16	6.8 70	6.8		6.90 3.60	10.50				
17		7.2	7.3	7.25 3.60	10.85				
18		7.2	7.4	7.30 3.60	10.90				
19		7.4	7.4	7.40 3.61	11.01				
20		7.9	8.0	7.95 3.65	11.60	cont.			
21		7.4	7.4	7.40 3.61	11.01	28	9.4	9.3	9.35 3.90 13.25
22		8.4	8.3	8.35 3.68	12.03	29	9.4	9.5	9.45 3.90 13.35
23		8.5	8.5	8.50 3.69	12.19	30	9.6	9.7	9.65 3.97 13.62
24		8.4	8.4	8.40 3.68	12.08	31			
25		8.5	8.5	8.50 3.69	12.19				
26		8.8	8.7	8.75 3.73	12.48				
27		9.4	9.3	9.35 3.90	13.25				

* See note on P. 199.

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1912phae.proj.10550

Sale M

Thursday January 9.

Cannot continue

Have heavy cold —

affects my eyes.

Have tried several times.

this week.—

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1912phae.proj.10550

Thursday January 9, 1913.

Scale M.

I 2818 9 Polar Eq.

			P.C.	
	sc 1	sc. 2	sc 2	sc. 2
5			7.7	7.8
6			8.4	
8			9.4[3]	
9			9.4	
10	5.2	5.3	9.6	9.6
11	5.3	5.6	9.7	
12	5.7	5.7	n.s.	
13	6.1	6.3		
14	6.4	6.7		
15	6.8	7.1		
16		7.4	7.4	
17		7.8	7.7	
18		8.3	8.2	
19		8.5	8.4	
20		8.8	8.7	
21		9.2	9.2	
23		9.6	9.4	
25		sup?		
26		10.0	9.8	
27				

Images of faint stars are poor. large and hazy.

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1912phae.proj.10550

Thursday January 9. 1913

Sabi M Meas of Slain. Seq 134

I 28189.

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1912phae.proj.10550

Friday January 10, 1912.

Scale M. Measures of Seq. for B4. Corrected

I 38 189 Following images. (S down. r.h. m.)

Corr. for dec. -102

	sc.1	sc.2			Pris. Comp. sc.2				
1	3.6	3.8			8.4	8.4	8.40	-1.28	7.12
too far from center 2					8.4	8.5	8.45	-1.28	7.17
" " 3					8.6	8.6	8.60	-1.25	7.35
" " 4					8.7	8.8	8.75	-1.20	7.55
" " 5					9.1	9.2	9.15	-1.11	8.04
" " 6					9.7	9.7	9.70	-1.00	8.70
" " 7					9.4	9.4	9.40	-1.07	8.33
8	4.8 5.0	4.9	4.95	3.88	8.83	9.6	9.5	9.55	-1.03	8.52
9	4.8 5.0	4.9	4.95	3.88	8.83	9.8	9.7	9.75	-0.96	8.79
10	5.3 5.5	5.6	5.55	3.86	9.41	9.9	9.8	9.85	-0.96	8.89
11	5.8 6.0	5.8	5.90	3.86	9.76	n.s.				
12	5.7 5.9	6.2	6.05	3.86	9.91					
13	5.7 5.9	6.2	6.05	3.86	9.91					
14	6.3 6.5	6.4	6.45	3.85	10.30					
15	6.4 6.6	6.6	6.60	3.83	10.43					
16	6.8 6.9	6.8	6.85	3.82	10.67					
17	t.f.	7.4	7.4	7.40	3.79	11.19				
18	6.9 7.1	7.2	7.2	7.87	3.80	10.97				
19		7.5	7.4	7.45	3.79	11.24	sc.2	sc.2		
20		7.9	7.8	7.85	3.75	11.60	27	9.4	9.5	9.45	3.65	13.10
21		7.4	7.4	7.40	3.79	11.19	28	8.9	9.1	9.00	3.68	12.68
22		8.2	8.2	8.20	3.73	11.98	29	9.5	9.5	9.50	3.64	13.14
23		8.3	8.4	8.35	3.72	12.07	30	9.8	9.8	9.80	3.62	13.42
24		8.4	8.5	8.45	3.71	12.16						
No. 26 is later than 27.	25		8.5	8.5	8.50	3.71	12.21					
	26		def.									

Sm. on this plate do not compare well with scale. M. images especially difficult

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Friday January 10 1912.

Scalem. Measures of Seq. for B4

I 28189 Polar Seq.

	Sc 1	Sc. 2		Bris Comp. Sc. 2		
5				7.7	7.7	770 - 1.31
6				8.3	8.3	830 - 1.32
8				9.3	9.3	930 - 1.20
9				9.6	9.6	960 - 0.90
10	5.1 5.3	5.3	5.30	3.57	9.8' def.?	
11	5 3 5.5	5.5	5.50	3.92		
12	5.6 5.8	5.7	5.75	3.98		
13	6.1 6.3	6.5	6.40	3.77		
14	6.5 6.7	6.7	6.70	3.82		
15	6.8 7.0	7.2	7.10	3.84		
16		7.3	7.3	7.30	3.96	
17		7.6	7.8	7.70	3.79	
18		8.2	8.3	8.25	3.67	
19		8.7	8.6	8.65	3.63	
20		8.9	8.8	8.85	3.74	
21		9.2	9.2	9.20	3.62	
23		9.5	9.6	9.55	3.65	
Irr. fac. shape 25		Nuf?				
26		10.0	10.0	10.00	4.19	

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Friday January 10, 1913

Scale M. Measures of Seg. for 134: Preceding / following Image. Eastpiece

I 28189.

Corr. for dt. −.02

Pris. Comps.

	RC.1	RC.2				RC.2	RC.2				
1						8.4	8.4	8.40	−1.27	7.13	
2						8.5 / 7.8	8.5	8.50	−1.26	7.24	
3						8.6	8.6	8.60	−1.25	7.35	
4						8.8	8.9	8.85	−1.19	7.66	
5						9.0	9.1	9.05	−1.16	7.89	
6						9.1	9.6	9.65	−1.02	8.63	
7						9.4	9.4	9.40	−1.06	8.34	
8	4.8	5.0				9.5	9.4	9.45	−1.06	8.39	
9	4.8	5.1				9.7	9.7	9.70	−1.00	8.70	
10	5.3	5.3				9.8	9.9	9.85	−0.97	8.88	
11	5.8	5.8									
12	5.7	5.9									
13	5.6	5.8									
14	6.3	6.3									
15	6.4	6.4									
16	6.9	6.9									
17	t.f.	7.4									
18	7.0	7.2									
19	t.f.	7.6									
20		7.8									
21	t.f.	7.4									
22		8.2									
23		8.4									
24		8.5									
25		8.6									
26		8.6									

3.88	8.88				5.00	3.29	8.29					
3.88	8.93				5.05	3.29	8.29					
3.87	9.27				5.40	3.34	8.74					
3.86	9.76				5.90	3.40	9.30					
3.86	9.76				5.90	3.40	9.30					
3.87	9.67				5.80	3.39	9.19					
3.85	10.25				6.40	3.47	9.87					
3.85	10.35				6.50	3.48	9.98					
3.82	10.82				7.00	3.54	10.54					
3.79	11.24				7.45	3.58	11.03					
3.80	11.00				7.20	3.55	10.75					
3.77	11.32				7.55	3.60	11.15					
3.75	11.55				7.80	3.64	11.44					
3.79	11.19				7.40	3.58	10.98					
3.73	11.93				8.20	3.67	11.87					
3.71	12.06				8.35	3.69	12.04					
3.71	12.21				8.50	3.70	12.20					
3.70	12.25				8.55	3.71	12.26					
3.70	12.30				8.60	3.71	12.31					

	RC.2	RC.2					
24	9.5	9.5	9.50	3.78	13.28	+.367	13.14
28	9.1	9.1	9.10	3.75	12.85	+.367	12.77
29	9.4	9.5	9.45	3.77	13.22	+.364	13.21
30	9.7	9.8	9.75	3.79	13.54	+.367	13.37

two far from center

" "

" "

" "

" "

" "

" "

Cont. →

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Saturday January 18, 1913

Scale m. Measures of Seq. for B4. keeped

I 28722 Preceding images -

Con for all -.02 Defects on Pl. !

Stan. Seq.		RC.1	RC.2	RC.			O.C. RC.2	O.C. RC.2			
	1	3.3 3.5		3.3 3.5	3.50		8.5	8.3	8.40 - 1.26	7.14	Reject: curve
too far from centre	2						8.4	8.4	8.40 - 1.26	7.74	plotted wrong.
	3	3.7 3.9		3.6 3.8	3.85		8.6	8.6	8.60 - 1.24	7.36	See remeasures
" "	4						8.1	8.8	8.75 - 1.21	7.54	
" "	5						8.9	9.1	9.00 - 1.20	7.80	
" "	6						9.3	9.4	9.35 - 1.14	8.21	
" "	7						9.5	9.4	9.45 - 1.14	8.31	
	8	4.8 4.0	5.1		5.05	3.29	9.9?	9.9	9.90 - 1.08	8.82	
	9	4.9 5.1	5.1		5.10	3.30	8.40				
	10	5.3 5.5	5.3		5.40	3.34	8.74				
	11	5.6 5.8	5.6		5.70	3.37	9.07				
	12	6.2 6.4	6.2		6.30	3.46	9.76				
	13	5.9 6.1	5.8		5.95	3.42	9.37				
	14	6.4 6.6	6.6		6.60	3.49	10.09				
	15	6.5 6.7	6.7		6.70	3.50	10.20				
	16	6.8 7.0	7.1		7.05	3.54	10.59				
	17		7.3	7.4	7.35	3.58	10.93				
	18		7.4	7.5	7.45	3.58	11.03				
	19		7.7	7.6	7.65	3.61	11.26				
	20		8.2	8.2	8.20	3.67	11.87				
	21		7.4	7.5	7.45	3.58	11.03				
	22		8.3	8.3	8.30	3.68	11.98				
	23		8.4	8.5	8.45	3.69	12.14				
	24		8.5	8.4	8.45	3.69	12.14				
	25		8.4	8.4	8.40	3.70	12.10				
	26		8.9	8.9	8.90	3.73	12.63				

Cont over.

21 is very bit on Chart. correct ident.

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Saturday January 18, 1913

Scale m -

B4 . 9 20 +45

		± 28722		Cont.			Prec. Comp.			
		rc 2	rc 2							
Stan Seq. cont.	27	9.4	9.2	9.30	3.76	13.06				
	28	9.5	9.4	9.45	3.77	13.22				
	29	9.6	9.6	9.60	3.79	13.39				
	30	9.7	9.7	9.70	3.79	13.49				
	31	10.0	10.0	10.00	3.81	13.81				
Polar	5						7.7	7.7	(elong)	7.70 - 1.31
	6						8.3	8.3		8.30 - 1.32
	8						9.2	9.2		9.20 - 1.10
	9						9.8	9.7		9.75 - 1.85
	10	4.9 5.1	5.2	5.15	3.74		9.9	9.8		9.85 - 0.96
	11	5.8 6.0	5.9	5.95	3.47					
plate almost sufs. on 12.	12	6.4 6.6	6.7	6.65	3.08					
	13	6.6 6.8	6.8	6.80	3.37					
	14	6.7 6.9	7.0	6.95	3.57					
	15		7.4	7.5	7.45	3.49				
	16		7.7	7.6	7.65	3.61				
	17		7.8	7.8	7.80	3.69				
	18		8.3	8.4	8.35	3.57				
	19		8.5	8.6	8.55	3.73				
	20		8.8	8.7	8.75	3.84				
	21		9.2	9.1	9.15	3.67				
	23		9.4	9.4	9.40	3.80				
	25		9.9	9.9	9.90	3.83				
	26		10.0?							

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Saturday January 18, 1913

Scale m. B4: 9 20 +45° bisped

I 28722 Con. for Ht. -.82

		RC.1	RC.2		cont.			Following Images. O.C.				
	1							8.4	8.4	8.40 - 1.26	7.14	Reject: see Blp 3: 103
too far from centre	2							8.4	8.4	8.40 - 1.26	7.14	
"	3							8.7	8.6	8.65 - 1.24	7.41	
"	4							8.8	8.7	8.75 - 1.21	7.54	
"	5							9.2	9.3	9.25 - 1.16	8.09	
"	6							9.3	9.2	9.25 - 1.16	8.09	
"	7							9.5	9.5	9.50 - 1.14	8.36	
	8	4.7	4.9	4.9	4.90	3.28	8.18	9.9	9.9	9.90 - 1.08	8.82	
	9	4.9	5.1	5.1	5.10	3.81	8.41					
	10	5.2	5.4	5.3	5.35	3.34	8.69					
	11	5.8	6.0	5.8	5.90	3.40	9.30					
	12	6.2	6.4	6.1	6.25	3.45	9.70					
	13	5.7	5.9	5.9	5.90	3.40	9.30					
	14	6.4	6.6	6.4	6.50	3.48	9.98					
	16	6.7	6.9	7.1	7.00	3.53	10.53					
	17		7.5	7.4	7.45	3.58	11.03					
	18		7.4	7.5	7.45	3.58	11.03					
	19		7.6	7.6	7.60	3.61	11.21					
	20		8.2	8.2	8.20	3.67	11.87					
	21		7.5	7.6	7.56?	3.61	11.17					
	22		8.3	8.3	8.30	3.68	11.98					
	23		8.3	8.3	8.30	3.68	11.98					
	24		8.5	8.4	8.45	3.69	12.14	29	9.6	9.6	9.60 3.79	13.39
	25		8.4	8.4	8.40	3.69	12.09	30	9.7	9.7	9.70 3.79	13.49
	26		8.6	8.6	8.60	3.71	12.31	31	10.0?	10.0?	10.00? 3.81	13.81?
	27		9.1	9.2	9.15	3.76	12.91					
	28		9.5	9.6	9.55	3.78	12.33					

Cont →

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Tuesday January 28, 1913.

Scale M

bopieh.

I 34829. B6.

Cor +.03

	Sc.1	Sc.2	Sc.2				Sc.2	Sc.2		
1	2.3 2.5					7.7	7.7	7.70 - 1.44	Reject.
too far fr. centre 2						8.2	8.4	8.30 - 1.43	Plotting wrong
" " 3						8.0	8.2	8.10 - 1.44	
too far from centre 4						8.4	8.4	8.40 - 1.43	Remeasured BK 3:1104
" " 5						8.6	8.6	8.60 - 1.40	
Imn. too elong typeus. 6						9.3	9.3	9.30 - 1.25	
" " " 7						9.6	9.7	9.65 - 1.12	
8	3.8 4.0	B.				9.7	9.7	9.70 - 1.07	
9	4.4 4.6	4.6	4.60	4.11	8.71	10.0	10.0	10.00 - 0.85	
10	5.3 5.5	5.4	5.45	3.91	9.36	n.s.			
11	5.3 5.4	5.6	5.50	3.89	9.39				
faulty Imn sup. on 12.1 12	4.9 5.1	sup				9.9	9.9		
13	5.6 5.8	5.8	5.80	3.81	9.61				
14	6.4 6.6	6.7	6.65	3.64	10.29				
15	6.5 6.7	6.8	6.75	3.61	10.36				
16	6.6 6.8	6.8	6.80	3.61	10.41				
17	6.7 6.9	7.2	7.05	3.56	10.63				
18	f.	7.4	7.5 sc2 7.45	3.56	11.01				
19		7.8	8.0	7.90	3.57	11.47	28	9.4 9.4	9.40 3.81 13.21
20		7.7	7.6	7.65	3.56	11.21	29	9.7 9.6	9.65 3.86 13.51
21		8.4	8.3	8.35	3.60	11.95	30	10.0 9.9	9.95 3.98 13.93
22		def.	def.	?			31		
23		8.6	8.7	8.65	3.63	12.28	32		
24		8.7	8.6	8.65	3.63	12.28	33		
25		8.7	8.8	8.75	3.67	12.42	34		
26		8.5	8.7	8.60	3.63	12.23			
27		9.1	9.2	9.15	3.75	12.90			

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Tuesday January 28. 1913

Scale m. Measures of Stan Seq. for B6 = 14 40 +45°

I 34829

	sc 1	sc. 2		O.C. sc. 2	sc. 2	
5				7.6	7.6	7.60 - 1.21
6				8.5	8.4	8.45 -1.47
8				9.3	9.4	9.35 -1.25
9				~~9.8~~ 9.6	9.6	9.60 -0.90 -1.10
10	4.6 4.8 4.9		mean ~~4.85~~ 4.85 4.04	9.8	9.8	9.80 - 0.91
11	5.3 5.5 5.4		5.45 3.97	n.s	n.s.	
12	5.6 5.8 5.9		5.85 3.88			
13	6.4 6.6 6.6		6.60 3.57			
14	6.6 6.8 7.0		6.90 3.62			
15	7.4	7.5	7.45 3.49			
16	7.6	7.7	7.65 3.61			
17	7.9	8.1	8.00 3.49			
18	8.5	8.4	8.45 3.47			
19	8.7	8.7	8.70 3.58			
20	8.8	8.8	8.80 3.79			
21	9.2	9.2	9.20 3.62			
23	9.4	9.4	9.40 3.80			
25	9.8	9.1	9.75 3.98			
26	10.1 ?	?				

Hazy image about m pos of 26.

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BK. III, in use ∴ used this Bk.

Friday October 11, 1913.

Scale M. Meas. of Plate. Seg. B8 = 20 +45.0

11:— I 38478. 2 Appo. on Pole - 1 on St. Seg.

Upper images. Fiducial upper member at top.

		sc.1	Mean			Copied p. 214
Polar.	5			7.8	7.9	7.85 .01
	6			8.1	8.1	8.70 .00
	8			9.4	9.5	9.45 .01
	9		Copied p. 214	9.8	9.8	9.80 .00
	10	5.3 5.5 5.6	5.55 ±.0	10.0	10.0	10.00 .00
	11	6.4 6.6 6.2	6.40 ±.2			n.s.
	12	6.5 6.7 6.1	6.70 .00			
	13	6.7 6.9 7.2	7.05 ±.2			
	14	~~6.7~~ 7.4	7.4 ±.			
	15	7.8	7.8 7.80 .00			
	16	8.1	8.2 8.15 ±.0			
	17	8.3	8.3 8.30 .00			
	18	8.6	8.7 8.65 .01			
	19	8.8	8.8 8.80 .00			
	20	9.2	9.3 9.25 .01			
	23	9.7	9.8 9.75 ±.0			
	25	10.0	10.0 10.00 .00			

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Friday October 11, 1913.

Scale m. Slant. Leg. BT = 20 +45°

I 38 47 8 Slant Leg.

	Ac.1	Ac.2	mean	Curve	Magn.	P.C.	mean	Curve	Magn.	Curve	Magn.
too far from centre. 1						6.7	8.4 8.4	8.40 ±0	H.76	13.46 −1.68	6.72
" " " " ? 2						8.7	8.8	8.75 ±0	H.65	13.40 −1.60	7.15
3	3.3	3.5 B.	3.5 ± . .			8.8	8.7	8.75 ±1	H.65	13.40 −1.60	7.15
4	4.1	4.3 4.4	4.35 ±0 . .			9.4	9.3	9.35 ±1	H.41	13.76 −1.40	7.95
" " " " ? 5	.	.	. .			8.8	9.2	9.00 ±2	H.55	14.03 −1.51	7.49
6	3.7	3.8 4.0 4.4 4.2	4.12 2 1 3 1 4.23 ± ± ± . .			9.4	9.3	9.35 ±1	H.41	13.76 −1.40	7.95
7	4.7	4.9 5.1	5.00 ±1 . .			9.8	9.7	9.75 ±1	H.26	14.01 −1.22	8.53
8	4.8	5.0 5.2	5.10 ±1 . .			9.7	9.7	9.70 ±0	H.28	13.98 −1.25	8.45
9	4.7	4.9 5.1	5.00 ±1 . .			9.8	9.8	9.80 ±0	H.25	14.04 −1.20	8.60
10	4.8	5.0 5.3	5.15 ± 1 . .			9.9	9.8	9.85 ±0	H.23	14.08 −1.18	8.67
11	5.4	5.6 5.7	5.65 ±1	3.23	8.88	n.s.					
12	5.4	5.6 5.8	5.70 ±1	3.21	8.91						
13	5.9	6.1 6.1	6.10 ±0	3.12	9.22						
14	5.8	6.0 6.1	6.05 ±1	3.13	9.18						
15	5.9	6.1 6.2	6.15 ±0	3.11	9.26						
16	6.6	6.8 6.7	6.75 ±1	3.02	9.77						
17	6.6	6.8 7.2	7.00 ± 2	3.00	10.00						
18	7.1	7.4	7.4 7.40 ±0	2.99	10.39						
19	.	7.6	7.7 7.65 ±1	3.00	10.65						
20		7.9	8.2 8.05 ± 2	3.01	11.06						
21		8.3	8.4 8.35 ±0	3.05	11.40						
22		8.6	8.6 8.60 ±0	3.11	11.71						
23		8.9	8.9 8.90 ±0	3.20	12.10						
24		9.5	9.4 9.45 ±0	3.39	12.84						
25		9.4	9.4 9.40 ±0	3.37	12.77						
26		9.9	9.9 9.90 ±0	3.59	13.49						

ch W

ch W

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Friday October 17, 1913.

Scale M. Slair Seq. for ⊕ 8 = 22 40 +45°

Polar I 38478 cont.

Lovier Images.

									h 212				Diff.
Polar.	5					8.2	8.1	8.15	01	7.85	8.00	15 15	-1.61
	6					8.7	8.7	8.70	00	8.70	8.70	00 00	-1.72
	8					9.6	9.4	9.50	12	9.45	9.48	02 03	-1.38
	9				h 212	9.9	9.8	9.85	10	9.80	9.82	02 02	-1.12
								Diff.					
	10	5.4	5.6	5.7	5.65	01	5.55	5.60	05 05	3.29	10.80	10.00	12 -1.11
	11	6.3	6.5	6.4	6.45	10	6.40	6.42	03 02	3.00			
	12	6.6	6.8	6.8	6.80	00	6.70	6.75	05 05	2.98			
	13		7.3	7.2	7.25	10	7.05	7.15	10 10	3.02			
	14		7.6	7.6	7.60	00	7.4	7.50	10 10	3.02			
	15		8.3	8.2	8.25	10	7.80	8.02	23 22	2.92			
	16		8.5	8.3	8.40	12	8.15	8.28	12 13	2.98			
	17		8.6	8.4	8.50	12	8.30	8.40	10 10	3.09			
	18		8.7	8.7	8.70	00	8.65	8.68	02 03	3.24			
	19		9.1	9.1	9.10	00	8.80	8.95	15 15	3.33			
	20		9.4	9.4	9.40	00	9.25	9.32	08 07	3.26			
	23		9.7	9.7	9.70	00	9.75	9.72	02 02	3.48			
	25		10.1	10.0	10.05	10	10.00	10.02	03 02	3.71			

12:05

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Saturday September 16, 1916

Brightness of

Estimates of Miss Cannons Var +4° 4584.

AR 3699 multiple image fil. [For other measures of this var. see O BK 2.

1st image 8.4

4th image 8.7

7th image 9.0

11th image 10.0

13th image 9.3

5th image 8.9 8.4 w.s.

2nd image 8.4

9th image 9.9

12th image 9.7

6th image 9.0

3rd image 8.6

10th image 10.3

8th image 9.8

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