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I plates to be reduced.

Book 15. Ph

Sept. 5th 87

v 17.7 H 72.8	Plate 1462. 16h.		
v 32.6 H 61.0	Plate 1365. 16h.	Correction. 1.00	
v 37.5 H 51.6	Plate 1366. 17h.	Correction. 1.00	
v 27.6 H 71.8	Plate 1372. 16h.	Correction. 1.00	
v 12.5 H 91.5	Plate 1474. 16h & 17h.		
v 12.7 H 90.2	Plate 1518. 16h & 17h.		
v 22.7 H 89.4	Plate 1381. 16h & 17h.		
v 35.4 H 92.8	Plate 1463. 16h & 17h.	Correction 1.00	
v H			
v H			
v H			
v H			
v H			
v H			

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I. Plates to be Reduced

Book 15. p. 136.

Sept. 1st/87.

V 42.6
H 90.5 } Plate 1417 14h & 15h. Correction 1.50

V 12.7
H 61.5 } Plate 1446 14h.

V 32.6
H 61.6 } Plate 1453 14h. Correction 1.00

V 22.7
H 91.7 } Plate 1447 14h & 15h.

V 27.7
H 56.0 } Plate 1440 15h. Correction 1.00

V 12.8
H 72.3 } Plate 1471 15h & 16h.

V 42.7
H 71.1 } Plate 1418 15h & 16h. Correction 1.50

V 7.8
H 87.9 } Plate 1375 15h & 16h.

V 37.8
H 72.2 } Plate 1415 12h. Correction 1.00

V 7.7
H 89.1 } Plate 1449 15h & 16h.

V 22.7
H 89.9 } Plate 1454 15h & 16h.

V 27.7
H 91.2 } Plate 1459 15h & 16h. Correction 1.00

V 17.6
H 48.9 } Plate 1320 16h.

V 12.7
H 60.6 } Plate 1465 16h.

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Book 15.

I. plates.

May 28th 1887.

V = 17.4
H = 72.3
plate 1252.
8h.

V = 12.6
H = 90.8
plate 1265.
8h & 9h.

V = 7.6
H = 49.6
plate 1301.
9h.

V = 7.6
H = 60.2
plate 1308.
9h.

V = 12.6
H = 71.7
plate 1207.
9h & 10h.

V = 32.7
H = 60.0
plate 1349.
12h. Apply correction.

V = 7.7
H = 69.6
plate 1379.
12h.

V = 7.7
H = 69.2
plate 1299.
9h.

V = 7.6
H = 90.6
plate 1295.
9h & 10h.

V = 12.6
H = 91.2
plate 1348.
10h & 11h.

V = 7.7
H = 61.2
plate 1296.
11h.

V = 32.5
H = 91.0
plate 1306.
11h & 12h. Apply Correc.

V = 17.8
H = 69.9
plate 1386.
12h.

V = 12.5
H = 89.8
plate 1307.
12h & 13h.

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100°	18
110°	16
120°	13
130°	18
140°	23
150°	17
160°	12
170°	16

1832,

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Plates to be identified.

Book 15.

June 17, 87.

V = 7.7
H = 49.6
Plate 1300. 10h.

V = 7.8
H = 48.5
Plate 1387. 13h

V = 17.7
H = 50.8
Plate 1298. 13h.

V = 12.6
H = 71.7
Plate 1337. 13h.

V = 22.7
H = 70.7
Plate 1350. 13h.

V = 7.9
H = 69.8
Plate 1266 10h.

V = 42.7
H = 72.1
Plate 1416 13h. Apply Correction. 1.00

V = 7.6
H = 91.7
Plate 1410 13h & 14h.

V = 17.7
H = 87.8
Plate 1380. 13h & 14h.

V = 12.6
H = ~~49.8~~ 99.8
Plate 1318. 14h.

V = 27.8
H = 70.4
Plate 1388. 14h & 15h. Apply Correction. 1.00

V = 22.6
H = 91.5
Plate 1364. 14h & 15h.

V = 32.6
H = 89.7
Plate 1374. 14h & 15h. Apply Correction. 1.00

V = 17.5
H = 52.5
Plate 1319. 15h

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List of D. plates identified & read.

Book 15.

No. plate	No. Stars	No. plate	No. Stars	No. plate	No. Stars
Read April 1252	74	Read June 1410	26	Aug. 1370	58
May 1265	129	" 1380	42	" 1465	39
" 1301	76	" 1318	54	" 1462	43
" 1308	64	" 1388	155	" 1365	33
" 1207	65	" 1364	35	" 1366	43
" 1349	61	" 1374	49	" 1372	67
" 1379	61	" 1411	59	" 1474	40
" 1299	17	" 1412	89	" 1518	44
" 1300	7	Aug. " 1319	75	" 1381	99
" 1295	9	" 1417	21	" 1463	2
" 1348	33	" 1446	61		
" 1296	31	" 1453	53		
" 1306	62	" 1447	34		
" 1386	148	" 1440	48		
" 1307	44	" 1471	72		
June 1387	138	" 1418	45		
" 1298	31	" 1375	64		
" 1337	39	" 1415	28		
" 1350	26	" 1449	63		
" 1266	73	" 1454	60		
" 1416	19	" 1459	34		

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"	1299	44.
"	1295	44
"	1300	46
"	1348	46
"	1296	48
"	1306	50
"	1386	56
"	1307	66
"	1387	70
"	1298	80
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April 18, 1887.

Plate 1252.

			Type	No. Lines	K	Focus	Other Lines	V.	H.	V.	H.
1	30										
		22.0	9.1	I	4	K=H	1	—	11.0	18.2	6.4	54.1
		22.1	9.2	III	2	K=H	1	—	11.0	18.4	6.4	53.9
		22.4	13.8	I	4	K=1.5H	2	—	11.2	27.6	6.2	44.7
		22.1	17.4	I	7	K=2H	2	—	11.0	34.8	6.4	37.5
		22.2	21.1	I	10	N	5	F.	11.1	42.3	6.3	30.1
	1.	21.7	12.4	III	8	K=2.5H	5	F. very	10.8	24.8	6.6	47.5
		21.9	15.7	I	11	N	5	F.	10.9 (1.0)	31.4	6.4	40.9
		21.9	20.1	II	3	K=H	1	F.	10.9 (1.0)	40.2	6.4	32.1
		20.2	11.8	I	V	N	1	—	10.1	23.6	7.3	48.7
		20.4	15.0	I	6	N	1	F.	10.2	30.0	7.2	42.3
		20.4	19.8	III	2	K=H	1	—	10.2	39.6	7.2	32.7
	?	20.3	22.0	II	3	K=H?	2	F. very	10.2	44.0	7.2	28.3
		19.6	6.4	I	V	N	1	—	9.8	12.8	7.6	59.5 (5)
		19.8	8.5	III	2	K=H	1	—	9.9	17.0	7.3	55.3
		19.5	15.1	III	3	K=H	1	F.	9.8	34.2 (0)	7.6	38.1 (42)
	?	18.9	8.7	III	3	K=H	1	F. very	9.4	17.4	8.0	57.9
		17.0	10.8	I	6	N	1	—	8.5	21.6	8.9	50.7
		17.5	14.0	II	3	K=H	1	F.	8.8	28.0	8.6	44.3
		17.6	20.2	III	2	K=H	1	—	8.8	40.4	8.6	31.9
		16.7	6.7	II	2	K=H	1	—	8.4	13.4	9.0	58.9
	?	16.8	13.1	II	3	K=H	1	F.	8.4	26.2	9.0	46.1
		16.0	15.2	I	V	N	1	F.	8.0	30.4	9.4	31.9 (4)
		16.7	16.7	I	7	N	2	F.	8.4	33.4	9.0	38.9
		16.7	22.7	I	8	K=H	2	F.	8.4	45.4	9.0	26.9
		15.6	10.5	I	6	N	1	—	7.8	21.0	9.6	51.3
		15.0	18.1	III	3	K=H	1	F.	7.5	36.2	9.9	36.1
		14.9	11.3	III	3	K=H	2	F.	7.4	22.6	10.0	49.7
		14.7	16.4	I	4	N	1	—	7.4	32.8	10.0	39.5

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No.	R.A.	Dec.	Mag.	H.	V.	
2089	8 54.2	+6 14	8.0	72.4	17.2	
2087	8 53.9	+6 12	6.3	72.3	17.2	
	8	+				8 44.8 +5.9
2038	8 37.4	+6 12	7.0	72.2	17.2	
2001	8 30.0	+6 13	4.3	72.2	17.3	
2060	8 47.7	+6 30	3.0	72.3	17.3	
2040	8 40.8	+6 22	4.8	72.2	17.4	
2007	8 32.0	+6 17	8.0	72.2	17.3	
2049	8 48.8	+7 12	8.3	72.4	17.3	
2037	8 42.2	+7 3	7.7	72.2	17.3	
2011	8 32.3	+7 4	8.0	72.1	17.3	
1997	8 28.1	+7 7	6.0	72.1	17.3	
2078	8 59.7	+7 23	8.0	72.3	17.2	
2068	8 53.3	+7 25	7.0	72.3	17.3	
2036	8 42.1	+7 33	7.3	72.3	17.4	
2066	8 55.0	+7 33	6.3	72.4	17.3	
2148	8 51.0	+8 48	8.3	72.6	17.3	
2134	8 44.3	+8 36	6.8	72.3	17.4	
2099	8 31.7	+8 31	7.3	72.1	17.3	
2164	8 59.2	+8 35	8.2	72.6	17.3	
2138	8 46.2	+8 37	7.7	72.4	17.3	
2063	8 41.7	+9 24	7.8	72.1	17.4	
2047	8 38.7	+9 0	7.3	72.1	17.4	
2077	8 26.4	+8 36	7.0	71.8	17.3	
2099	8 51.5	+9 32	7.5	72.3	17.3	
2038	8 35.9	+9 33	7.6	72.1	17.4	
2093	8 49.9	+9 36	6.0	72.3	17.3	
1871	8 39.3	+10 9	8.7	72.1	17.3	

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April 18, 1887.

Plate 1252.

	V	H	Type	No. Lines	K	Focus	Other lines.	V.	H.	V.	H.
	14.0	19.5	I	8	K=H	1	F.	7.0	39.0	10.4	33.3
	14.5	20.9	I	8	K	3	F.	7.2	41.8	10.2	30.5
	14.4	21.3	I	9	K	3	F.	7.2	42.6	10.2	29.7
	13.6	17.5	I	11	K	4	F.	6.8	35.0	10.6	37.3
	13.6	23.5	I	7	K	2	F.	6.8	47.0	10.6	25.3
	13.9	23.9	I	7	K	2	F.	6.9 7.0	47.8	10.4	24.5
?	12.3	6.4	I	7	?	4	F. sm.	6.2	12.8	11.2	59.5
	12.0	11.3	I	V	K	1	F.	6.0	22.6	11.4	49.7
	12.2	11.6	II	2	K=H	1	—	6.1	23.2	11.3	49.1
	11.9	11.1	II	2	K=H	1	—	6.0	22.2	11.4	50.1
	12.8	15.7	III	2	K=H	1	—	6.4	31.4	11.0	30.9
	12.6	16.7	II	2	K=H	1	—	6.3	33.4	11.1	38.9
	12.5	22.9	I	V	K=H	1	—	6.2	45.8	11.2	26.5
	11.4	16.4	I	V	K	1	—	5.7	32.8	11.7	39.5
	11.2	18.1	I	3	K	1	—	5.6	36.2	11.8	36.1
	11.6	19.2	I	V	K	1	—	5.8	38.4	11.6	33.9
	11.9	19.6	III	2	K=H	1	—	6.0	39.2	11.4	33.1
?	11.0	22.3	II	2	K=H	1	sm.	5.5	44.6	11.9	27.7
	10.0	11.0	I	13	K=2H	V	F.	5.0	22.0	12.4	50.3
?	10.6	12.2	III	3	K=H	2	F. sm.	5.3	24.4	12.1	47.9
	10.7	20.9	I	V	K	1	—	5.4	41.8	12.0	30.5
	10.3	21.6	I	V	K	1	—	5.2	43.2	12.2	29.1
	9.6	6.2	III?	2	K=H	1	—	4.8	12.4	12.6	59.9
	10.0	14.2	III	2	K=H	1	—	5.0	28.4	12.4	43.9
	9.5	14.4	II	2	K=H	1	—	4.8	28.8	12.6	43.5
	9.4	15.2	II	3	K=H	1	F.	4.7	30.4	12.7	41.9
	9.6	16.5	I	9	K	3	F.	4.8	33.0	12.6	39.3
	8.6	9.8	I	V	K	1	—	4.3	19.6	13.1	52.7

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No	R.A.	Dec.	Mag.	H.	V.
1848	8 33.0	+10 20	7.8	72.0	17.3
1840	8 30.8	+10 5	7.4	72.1	17.3
1837	8 29.2	+10 10	6.0	71.8	17.4
1864	8 36.9	+10 36	6.0	71.9	17.4
1818	8 24.8	+10 35	6.8	71.8	17.4
1816	8 24.0	+10 18	7.5	71.8	17.3
1984	8 59.9	+11 14	5.5	72.7	17.4
1950	8 50.0	+11 23	8.2	72.6	17.4
1947	8 49.2	+11 19	8.5	72.4	17.4
1954	8 50.4	+11 23	8.5	72.6	17.4
1876	8 40.7	+10 57	7.1	72.1	17.4
1908	8 38.5	+11 6	7.7	71.9	17.4
1870	8 26.1	+11 4	7.8	71.9	17.3
1913	8 39.3	+11 41	7.8	72.1	17.4
1899	8 35.8	+11 47	8.5	72.0	17.4
1894	8 33.4	+11 34	7.5	71.8	17.4
1892	8 32.6	+11 26	7.2	71.8	17.4
1874	8 27.1	+11 47	7.5	71.7	17.3
1948	8 50.6	+12 26	4.3	72.6	17.4
1941	8 48.0	+12 11	5.8	72.4	17.5
1885	8 30.0	+11 57	8.1	71.8	17.4
1872	8 28.6	+12 12	8.5	71.8	17.4
1973	9 8 0.3	+12 31	7.5	12.7	17.3
1927	8 43.9	+12 25	8.0	72.3	17.4
1927	8 43.5	+12 39	8.0	72.3	17.4
1914	8 41.6	+12 42	8.5	72.0	17.4
1904	8 39.0	+12 38	6.2	72.0	17.4
2028	8 52.9	+13 8	8.1	72.5	17.4

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April 18, 1887.

Plate 1252.

V	H	Type	No. Lines	K	Focus	Lines	V.	H.	V.	H.
8.7	15.7	III	2	K=H	1	—	4.4	31.4	13.0	40.9
8.5	18.3	I	10	K=1.2H	3	F.	4.2	36.6	13.2	35.7
7.6	10.5	III	2	K=H	1	—	3.8	21.0	13.6	51.3
7.3	17.0	I?	2	H	1	—	3.6	34.0	13.8	38.3
7.4	23.0	III	3	K=H	1	F.	3.7	46.0	13.7	26.3
6.2	13.4	I	8	K=1.5H	2	F.	3.1	26.8	14.3	45.5
6.3	21.8	I	6	H	2	F.	3.2	43.6	14.2	28.7
6.7	22.0	I	V	H	1	—	3.4	44.0	14.0	28.3
5.7	16.9	I	3	H	1	—	2.8	33.8	14.6	38.5
5.1	19.6	I	V	K=H	1	—	2.6	39.2	14.8	33.1
4.9	13.4	I	V	H	1	—	2.4	26.8	15.0	45.5
? 4.2	15.1	II	V	K=H	1	F. neu.	2.1	30.2	15.3	42.1
3.2	11.7	I	10	K=1.2H	4	F.	1.6	23.4	15.8	48.9
3.2	14.7	III	3	K=H	2	F.	1.6	29.4	15.8	42.9
3.1	16.4	I	V	K=1.5H	1	—	1.6	32.8	15.8	39.5
3.2	21.8	I	6	H	2	F.	1.6	43.6	15.8	28.7
2.6	11.5	I	7	K=1.5H	2	F.	1.3	23.0	16.1	49.3
2 30	1.9	7.4	I	4	H	1	—	1.0	14.8	16.4	57.5

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No.	R.A.		Dec.		Mag.	H.	V.	
1994	8	40.7	+13	3	7.2	72.1	17.3	P
1972	8	35.2	+13	12	6.0	71.8	17.4	
2021	8	51.3	+13	39	7.3	72.3	17.4	
1981	8	38.0	+13	47	8.7	72.0	17.4	
1940	8	25.7	+13	45	6.8	71.7	17.3	
1989	8	45.7	+14	24	6.8	72.3	17.3	
1929	8	28.1	+14	17	8.0	71.7	17.3	P
1927	8	27.7	+14	2	8.2	71.7	17.4	
1971	8	38.1	+14	36	7.8	71.9	17.4	
1946	8	32.3	+14	53	8.0	71.7	17.3	P
1988	8	45.7	+14	57	7.7	72.3	17.4	
1912	8	41.9	+15	23	7.0	72.1	17.3	
1945	8	49.2	+15	32	3.7	72.6	17.3	
1917	8	42.9	+15	33	6.7	72.3	17.3	
1901	8	39.2	+15	52	7.3	72.0	17.3	
1831	8	28.0	+15	48	6.3	71.6	17.4	
1864	8	49.5	+16	8	6.1	72.3	17.4	
1901	8	38.1	+16	26	7.3	72.9	17.4	

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May 6, 1887.

Plate 1265.

	V	H	Type	No. Lines	K	Focus	Other Lines	V.	H.	V.	H.
9.0	22.5	10.5	I	7	N	1	—	11.2	21.0	1.4	69.8
	22.2	10.9	I?	6	K=H	1	—	11.1	21.8	1.5	69.0
	22.5	15.3	I	7	N	1	—	11.2	30.6	1.4	60.2
	22.6	17.6	I	5	N	1	—	11.3	35.2	1.3	55.6
	22.6	23.5	I	6	K=H	1	—	11.3	47.0	1.3	43.8
	21.8	8.8	I	4	N	1	—	10.9	17.6	1.7	73.2
?	21.4	14.1	II?	2	K=H	1	cur.	10.7	28.2	1.9	62.6
	21.8	16.8	I	6	K=H	1	—	10.9	33.6	1.7	57.2
	21.1	18.5	I	5	N	1	—	10.6	37.0	2.0	53.8
	20.8	7.3	I	5	K=H	1	—	10.4	14.6	2.2	76.2
	20.4	10.5	I	4	K=H	1	—	10.2	21.0	2.4	69.8
	20.8	15.6	III	2	K=H	1	—	10.4	31.2	2.2	59.6
	20.9	19.3	III	2	K=H	1	—	10.4	38.6	2.2	52.2
	20.6	20.0	I	7	N	2	F	10.3	40.0	2.3	50.8
	20.2	21.0	II	2	K=H	1	—	10.1	42.0	2.5	48.8
	20.0	22.1	I	6	K=H	1	F	10.0	44.2	2.6	46.6
	19.9	10.7	I	7	K=.5H	2	F	10.0	21.4	2.6	69.4
	19.5	11.8	III	2	K=H	1	—	9.8	23.6	2.8	67.2
	19.1	12.2	I	9	N	5	F	9.6	24.4	3.0	66.4
	19.8	16.7	III	2	K=H	1	—	9.9	33.4	2.7	57.4
	19.5	17.5	II	2	K=H	1	—	9.8	35.0	2.8	55.8
	19.2	18.2	I	6	N	1	—	9.6	36.4	3.0	54.4
	18.9	7.5	III	1	N	1	—	9.4	15.0	3.2	85.8
	18.4	10.8	I?	5	K=H	1	N	9.2	21.6	3.4	69.2
	18.0	12.4	III	2	K=H	1	—	9.0	24.8	3.6	66.0
	18.6	15.4	I?	8	K=H	2	F?	9.3	30.8	3.3	60.0
	18.1	15.7	I	4	K=H	1	—	9.0	31.4	3.6	59.4
	18.9	16.4	I	7	K=.2H	2	F?	9.4	32.8	3.2	58.0

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No.	R. A.		Dec.	Mag.	H.	V.	
2271	9	10.1	+1 10	7.3	31.1	12.4	
2267	9	9.2	+1 20	6.8	31.0	12.4	
2237	8	59.9	+1 10	7.7	90.5	12.4	
2451	8	55.4	+0 39	8.2	90.6	12.3	
2183	8	43.6	+1 1	8.2	90.6	12.3	
2285	9	13.3	+1 29	8.5	30.9	12.4	
~~2153~~	~~9~~	~~3.2~~	~~+2 7~~	~~8.8~~	~~31.4~~	~~12.8~~	9 3.0 +1.7
2230	8	57.2	+1 29	7.6	90.8	12.4	
2220	8	53.6	+1 51	7.7	90.6	12.4	
2193	9	16.4	+2 3	7.8	31.0	12.4	
2174	9	10.2	+2 14	8.3	31.2	12.4	
2145	8	59.5	+2 3	6.8	90.7	12.4	
—	8		+				8 52.1 +1.9
2112	8	50.7	+2 6	7.5	90.7	12.4	
~~2100~~	~~8~~	~~48.7~~	~~+2 14~~	~~8.7~~			8 50.3 +2.1
2084	8	46.0	+2 27	8.5	90.2	12.4	
2173	9	9.7	+2 33	7.5	31.1	12.6	
2168	9	7.6	+2 40	7.5	31.2	12.5	
2167	9	6.8	+2 56	4.3	31.2	12.5	
2136	8	57.1	+2 29	7.9	90.5	12.4	
2132	8	55.6	+2 38	8.3	90.6	12.4	
2126	8	54.3	+2 46	8.8	90.7	12.4	
2196	9	16.1	+3 1	7.5	31.1	12.4	
2182	9	9.7	+3 17	8.0	31.3	12.5	
2173	9	6.4	+3 28	8.0	31.2	12.5	
2144	8	59.7	+3 9	7.3	90.5	12.5	
2122	8	59.1	+3 24	8.0	90.5	12.4	
2138	8	57.7	+2 59	7.2	90.5	12.4	

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Plate 1265.

V	H	Type	No. Lines	K	Focus	Other Lines.	V.	H.	V.	H.
18.5	18.1	I	7	N	2	—	9.2	36.2	3.4	54.6
18.7	20.5	I	7	K=H	2	—	9.4	41.0	3.2	49.8
18.4	21.5	II	2	K=H	1	—	9.2	43.0	3.4	47.8
17.6	6.3	III	2	K=H	1	—	8.8	12.6	3.8	78.2
17.9	8.7	I	6	K=H	1	—	9.0	17.4	3.6	73.4
17.6	13.3	I	5	N	1	—	8.8	26.6	3.8	64.2
17.9	14.6	I	6	K=H	1	—	9.0	29.2	3.6	61.6
17.4	15.0	III	2	K=H	1	—	8.7	30.0	3.9	60.8
?	17.7	15.9	II?	2	K=H	1	pure.	8.8	31.8	3.8	59.0
17.7	16.9	III	2	K=H	1	—	8.8	33.8	3.8	57.0
17.2	18.0	III	2	K=H	1	—	8.6	36.0	4.0	54.8
16.8	7.7	I	5	K=H	2	—	8.4	13.4	4.2	75.4
16.9	8.7	II	2	K=H	1	—	8.4	17.4	4.2	73.4
16.2	12.6	I	6	K=.2H	2	—	8.1	25.2	4.5	65.6
16.1	13.2	I	8	N	3	F	8.0	26.4	4.6	64.4
16.2	13.6	II?	2	K=H	1	—	8.1	27.2	4.5	63.6
16.7	16.7	I	6	?	2	F	8.4	33.4	4.2	57.4
16.6	18.9	III	2	K=H	1	—	8.3	37.8	4.3	53.0
16.5	19.6	?	2	N	1	—	8.2	39.2	4.4	51.6
16.6	20.9	I	4	K=H	1	—	8.3	41.8	4.3	49.0
15.1	6.6	I	4	N	1	—	7.6	13.2	5.0	77.6
15.1	7.3	II	2	K=H	1	—	7.6	14.6	5.0	76.2
15.0	8.2	I	6	N	1	—	7.5	16.4	5.1	74.4
15.1	9.4	II	2	K=H	1	—	7.6	18.8	5.0	72.0
15.4	11.9	II	2	K=H	1	—	7.7	23.8	4.9	67.0
15.9	14.9	II	2	K=H	1	—	8.0	29.8	4.6	61.0
15.4	20.7	III	2	K=1.2H	2	—	7.7	41.4	4.9	49.4
15.5	21.6	III	2	K=H	1	—	7.8	43.2	4.8	47.6

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No.	R.A.	Dec.	Mag.	Th.	V.
2121	8 54.4	+ 3 14	7.5	90.4	12.4
2099	8 49.7	+ 3 5	7.3	90.7	12.5
2093	8 47.6	+ 3 11	8.1	90.6	12.4
2202	9 18.5	+ 3 39	7.8	31.1	12.4
2193	9 13.6	+ 3 34	7.2	31.0	12.6
2162	9 4.5	+ 3 44	8.5	31.1	12.5
2154	9 2.0	+ 3 32	7.8	31.2	12.5
	9	+			
	8	+			
2134	8 56.7	+ 3 36	8.5	90.5	12.4
2125	8 54.5	+ 3 50	8.3	90.5	12.4
2178	9 15.7	+ 4 8	7.8	31.1	12.5
2171	9 13.7	+ 4 2	8.0	31.1	12.4
2144	9 3.9	+ 4 26	7.7	31.1	12.5
2139	9 4.6	+ 4 28	7.2	31.0	12.5
2136	9 4.0	+ 4 23	8.3	31.2	12.5
2115	8 57.1	+ 4 6	7.7	90.5	12.5
2098	8 52.7	+ 4 6	8.6	90.5	12.4
2088	8 51.4	+ 4 13	8.0	90.6	12.4
2079	8 48.7	+ 4 8	8.4	90.5	12.4
2185	9 17.8	+ 4 54	8.0	31.0	12.5
2181	9 16.5	+ 4 54	8.3	31.1	12.5
2174	9 14.8	+ 4 59	8.2	31.2	12.5
2165	9 12.3	+ 4 54	8.5	31.1	12.5
2150	9 7.3	+ 4 48	8.1	31.1	12.5
2126	9 1.3	+ 4 32	8.5	31.1	12.5
2181	8 49.0	+ 4 48	7.0	90.4	12.5
2074	8 47.4	+ 4 42	8.5	90.6	12.5

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8 58.7 +3.6

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May 6, 1887.

Plate 1265.

V	H	Type	No. lines	K	Focus	Other lines	V.	H.	V.	H.
15.9	22.1	II	2	K=H	1	—	8.0	44.2	4.6	46.6
14.2	7.1	II	6	K=H	1	—	7.1	14.2	5.5	76.6
? 14.3	16.1	III	2	K=H	1	cmm.	7.2	32.2	5.4	58.6
14.8	23.0	II	6	H	2	—	7.4	46.0	5.2	44.8
13.4	7.5	II	6	H	2	—	6.7	15.0	5.9	73.8
13.4	9.4	II	8	K=1.2H	2	F	6.7	18.8	5.9	72.0
13.0	13.4	II	9	K=1.8H	2	F	6.5	26.8	6.1	64.0
13.7	16.0	III	3	K=1.2H	3	F	6.8	~~34.8~~ 32.0	5.8	58.8
13.0	17.4	II	2	K=H	1	—	6.5	~~36.4~~ 34.8	6.1	56.0
13.9	18.2	II	8	K=H	1	F	7.0	~~41.8~~ 36.4	5.6	54.4
13.9	20.9	II	3	H	1	—	7.0	41.8	5.6	49.0
13.4	22.3	II	4	H	1	—	6.7	44.6	5.9	46.2
13.1	22.8	II	8	K=1.2H	3	F	6.6	45.6	6.0	45.2
12.3	7.4	II	3	H	1	—	6.2	14.8	6.4	76.0
12.6	8.3	III	2	K=H	1	—	6.3	16.6	6.3	74.2
12.8	8.7	III	2	K=H	1	—	6.4	17.4	6.2	73.4
12.8	11.7	III	2	K=H	1	—	6.4	23.4	6.2	67.4
12.3	12.7	II	8	H	2	—	6.2	25.4	6.4	65.4
12.7	14.8	II	2	K=H	1	—	6.4	29.6	6.2	61.2
12.6	18.1	II	6	K=H	2	—	6.3	36.2	6.3	54.6
12.7	18.3	II ?	2	K=H	2	—	6.4	36.6	6.2	54.2
12.5	19.4	III	2	K=H	1	—	6.2	38.8	6.4	52.0
12.8	21.3	III	2	K=H	1	—	6.4	42.6	6.3	48.2
12.2	21.2	III	2	K=2.5H	4	F?	6.1	42.4	6.3	48.4
11.4	5.7	II	3	K=1.5H	1	F	5.7	11.4	6.9	79.4
11.4	6.7	III	2	H	1	F	5.7	13.4	6.9	77.4
11.2	7.1	III	2	K=1.2H	2	—	5.6	14.2	7.0	76.6
11.6	8.3	I	3	H	1	—	5.8	16.6	6.8	74.2

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No.	R.A.		Dec.		Mag.	H.	V.
2066	8	46.2	+ 4	28	8.7	90.4	12.5
2171	9	16.8	+ 5	23	8.1	31.0	12.5
2115	8	58.3	+ 5	18	8.5	90.5	12.5
2173	8	44.4	+ 5	1	8.0	90.4	12.4
2169	9	16.0	+ 5	50	7.5	31.0	12.5
2158	9	12.2	+ 5	50	7.1	31.0	12.5
2120	9	4.3	+ 6	4	7.0	31.1	12.6
2116	8	58.3	+ 5	40	5.6	90.3	12.5
2104	8	55.7	+ 5	59	8.7	90.5	12.5
2100	8	54.0	+ 5	33	8.3	90.4	12.6
2086	8	48.7	+ 5	30	9.0	90.5	12.5
2076	8	45.8	+ 5	46	8.8	90.4	12.5
2074	8	44.8	+ 5	53	7.3	90.4	12.5
~~2167~~	~~9~~	~~16.6~~	~~+ 6~~	~~16~~	~~8.5~~	~~31.4~~	~~12.5~~
2155	9	14.5	+ 6	12	8.0	31.1	12.5
2153	9	13.7	+ 6	8	8.3	31.1	12.5
2136	9	7.6	+ 6	7	8.5	31.0	12.5
2129	9	5.7	+ 6	25	8.0	31.1	12.6
2109	9	1.4	+ 6	11	8.0	31.0	12.6
2089	8	54.2	+ 6	14	8.0	90.4	12.5
2087	8	53.9	+ 6	12	6.5	90.5	12.6
2078	8	51.7	+ 6	18	8.9	90.5	12.5
2061	8	47.8	+ 6	7	7.9	90.4	12.5
2060	8	47.7	+ 6	30	3.0	90.1	12.6
2177	9	19.7	+ 6	51	7.3	31.1	12.5
2173	9	17.7	+ 6	52	7.7	31.1	12.6
2169	9	16.8	+ 6	58	7.2	31.0	12.6
2157	9	14.6	+ 6	55	8.4	31.2	12.7

2165
9 16.8 +6.6

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May 6, 1887.

Plate 1265.

	r	H	Type	No. lines	K	Focus	Other lines		V.	H.	V.	H.
	11.1	14.0	I	5	K=.2H	1	—		5.6	28.0	7.0	62.8
?	11.1	19.3	II	2	K=H	1	nebs.		5.6	38.6	7.0	52.2
	10.7	6.1	II	2	K=H	1	—		5.4	12.2	7.2	78.6
	10.3	15.3	I	6	H	2	—		5.2	30.6	7.4	60.2
	10.4	17.3	II	2	K=H	1	—		5.2	34.6	7.4	56.2
	10.9	18.2	II	2	K=H	1	—		5.4	36.4	7.2	54.4
	10.6	20.8	I	7	K=.2H	1	F		5.3	41.6	7.3	49.2
	10.7	24.0	I	5	H	2	—		5.4	48.0	7.2	42.8
	9.6	10.2	II	2	K=H	1	—		4.8	20.4	7.8	70.4
	9.4	10.8	II	3	K=H	1	F		4.7	21.6	7.9	69.2
	9.4	17.7	II	2	K=H	2	—		4.7	35.4	7.9	55.4
	9.1	19.3	II	2	K=H	1	—		4.6	38.6	8.0	52.2
	9.9	21.2	I	4	H	1	—		5.0	42.4	7.6	48.4
	9.8	24.1	II	2	K=H	1	—		4.9	48.2	7.7	42.6
	8.5	7.1	II	2	K=H	1	—		4.2	14.2	8.4	76.6
	8.0	10.5	II	3	K=H	1	F		4.0	21.0	8.6	69.8
	8.7	12.5	II	2	K=H	1	—		4.4	25.0	8.2	65.8
	8.9	14.8	II	2	K=H	1	—		4.4	29.6	8.2	61.2
	9.0	15.2	II	2	K=H	1	—		4.5	30.4	8.1	60.4
	7.4	5.2	II?	2	K=1.5H?	2	—		3.7	10.4	8.9	80.4
	7.4	8.5	II	2	K=H	1	—		3.7	17.0	8.9	73.8
	7.5	9.4	I	4	H	1	—		3.8	18.8	8.8	72.0
	7.4	10.3	II	2	K=H	1	—		3.7	20.6	8.9	70.2
	7.2	10.6	II	2	K=H	1	—		3.6	21.2	9.0	69.6
?	7.4	15.5	II	2	K=H	1	Neb.		3.7	31.0	8.9	59.8
	7.5	19.6	I	6	H	1	—		3.8	39.2	8.8	51.6
	7.1	22.0	II	2	K=H	1	—		3.6	44.0	9.0	46.8
	7.8	22.8	II	2	K=H	2	—		3.9	45.6	8.7	45.2

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No.	R.A.		Dec.		Mag.	H.	V.	
2115	9	3.1	+ 6	56	8.3	31.1	12.5	
2079	8	57.9	+ 6	55	8.7	90.3	12.5	
2127	9	13.9	+ 7	9	8.0	31.1	12.6	
2078	8	59.7	+ 7	25	8.0	90.3	12.6	
2068	8	55.5	+ 7	25	7.0	90.1	12.6	
2062	8	54.1	+ 7	4	8.3	90.3	12.5	
2049	8	48.8	+ 7	12	8.5	90.4	12.5	
2037	8	42.3	+ 7	5	7.7	90.2	12.5	
2108	9	10.7	+ 7	41	8.7	31.1	12.5	
	9		+					
2065	8	55.0	+ 7	53	6.5	90.4	12.6	
2055	8	51.6	+ 7	59	8.4	90.2	12.6	
2046	8	47.9	+ 7	32	8.3	90.3	12.5	
2036	8	42.1	+ 7	33	7.5	90.3	12.5	
2215	9	15.8	+					
2199	9	10.2	+ 8	33	7.2	31.2	12.6	
2186	9	6.0	+ 8	13	8.5	31.0	12.6	
2172	9	1.3	+ 8	6	7.3	30.9	12.5	
2170	9	0.9	+ 8	12	8.8	31.3	12.7	
2226	9	20.8	+ 8	49	6.0	31.2	12.5	
2210	9	14.0	+ 8	50	8.4	31.0	12.5	
2205	9	12.2	+ 8	47	8.5	31.0	12.6	
2200	9	10.4	+ 8	51	8.0	31.0	12.5	
2197	9	9.8	+ 8	58	7.8	31.0	12.5	
2164	8	59.2	+ 8	55	8.2	90.2	12.6	
2148	8	51.0	+ 8	48	8.3	90.2	12.6	
2138	8	46.2	+ 8	57	7.7	90.2	12.6	
2134	8	44.5	+ 8	36	6.8	90.1	12.5	

1.

No. Plate.

1810

9 9.7+7.7

9 16.8+6.9

8 59.9 + 5.1
2165 ?

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1887phae.proj..840F

8.5 7.1 mag 17
12.3 12.7 " 15
16.2 13.6 " 13

No.	R.A.	Dec.	Mag.	H.	V.
2115	9 3.1	+ 6 56	8.3	31.1	12.5
2079	8 51.9	+ 6 55	8.7	90.3	12.5
2127	9 13.9	+ 7 9	8.0	31.1	12.6
2078	8 59.7	+ 7 25	8.0	90.3	12.6
2068	8 55.3	+ 7 25	7.0	90.1	12.6
2062	8 54.1	+ 7 4	8.3	90.3	12.5
2049	8 48.8	+ 7 12	8.5	90.4	12.5
2037	8 42.3	+ 7 5	7.7	90.2	12.5
2108	9 10.7	+ 7 41	8.7	31.1	12.5
	9	+			
2065	8 55.0	+ 7 53	6.5	90.4	12.6
2055	8 51.6	+ 7 39	8.4	90.2	12.6
2046	8 47.9	+ 7 32	8.5	90.3	12.5
2036	8 42.1	+ 7 33	7.5	90.3	12.5
2215	9 15.8	+			
2199	9 10.2	+ 8 33	7.2	31.2	12.6
2186	9 6.0	+ 8 13	8.5	31.0	12.6
2172	9 1.3	+ 8 6	7.3	30.9	12.5
2170	9 0.9	+ 8 12	8.8	31.3	12.7
2226	9 20.8	+ 8 49	6.0	31.2	12.5
2210	9 14.0	+ 8 50	8.4	31.0	12.5
2205	9 12.2	+ 8 47	8.5	31.0	12.6
2200	9 10.4	+ 8 51	8.0	31.0	12.5
2197	9 9.8	+ 8 58	7.8	31.0	12.5
2164	8 59.2	+ 8 55	8.2	90.2	12.6
2148	8 51.0	+ 8 48	8.3	90.2	12.6
2138	8 46.2	+ 8 57	7.7	90.2	12.5
2134	8 44.5	+ 8 36	6.8	90.1	12.5

9 9.7+7.7

9 16.8+6.9

8 59.9+8.1
2165

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No.	R.a.	Dec.	Mag.	H.	V.	
2115	9 3.1	+ 6 56	8.3	31.1	12.5	R
2079	8 51.9	+ 6 53	8.7	90.3	12.3	
2127	9 18.9	+ 7 9	8.0	31.1	12.6	
2078	8 59.7	+ 7 23	8.0	90.3	12.6	R
2068	8 53.3	+ 7 25	7.0	90.1	12.6	
2062	8 54.1	+ 7 4	8.3	90.3	12.5	R
2049	8 48.8	+ 7 12	8.5	90.4	12.5	
2037	8 42.3	+ 7 5	7.7	90.2	12.5	R
2108	9 10.7	+ 7 41	8.7	31.1	12.5	
	9	+				9 9.7+7.7
2065	8 55.0	+ 7 33	6.5	90.4	12.6	
2055	8 51.6	+ 7 39	8.4	90.2	12.6	
2046	8 47.9	+ 7 32	8.3	90.3	12.5	
2036	8 42.1	+ 7 33	7.3	90.3	12.5	
2215	9 15.8	+				? 9 16.8+6.9
2199	9 10.3	+ 8 33	7.2	31.2	12.6	
2186	9 6.0	+ 8 13	8.3	31.0	12.6	
2173	9 1.3	+ 8 6	7.3	30.9	12.5	
2170	9 0.9	+ 8 12	8.8	31.3	12.7	? 8 59.9 + 5.1 2165
2226	9 20.8	+ 8 49	6.0	31.2	12.5	
2210	9 14.0	+ 8 50	8.4	31.0	12.5	
2205	9 12.2	+ 8 47	8.5	31.0	12.6	R
2200	9 10.4	+ 8 51	8.0	31.0	12.5	R
2197	9 9.8	+ 8 58	7.8	31.0	12.5	
2164	8 59.2	+ 8 55	8.2	90.2	12.6	R
2148	8 51.0	+ 8 48	8.3	90.2	12.6	
2138	8 46.2	+ 8 57	7.7	90.2	12.6	
2134	8 44.5	+ 8 36	6.8	90.1	12.5	

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Plate 1265.

V	H	Type	No. lines	K	Focus	Other lines	V.	H.	V.	H.
6.2	6.4	I	4	N	1	—	3.1	12.8	9.3	78.0
6.0	13.6	III	2	K=H	1	—	3.0	27.2	9.6	68.6
6.9	17.7	I	5	K=.5H	1	F.	3.4	35.4	9.2	53.4
6.0	19.3	I	7	N	2	—	3.0	38.6	9.6	52.2
? 5.7	5.2	II	2	K=2.0H	3	sum.	2.8	10.4	9.8	80.4
5.8	9.8	III	1	N	1	—	2.9	19.6	9.7	71.2
5.3	20.1	II	2	K=1.2H	2	—	2.6	40.2	10.0	50.6
4.4	9.6	III	2	K=H	1	—	2.2	19.2	10.4	71.6
4.4	14.5	I	4	K=H	1	—	2.2	29.0	10.4	61.8
4.6	15.4	III	2	K=H	1	—	2.3	30.8	10.3	60.0
4.1	17.2	II	2	K=H	1	—	2.0	34.4	10.6	56.4
3.2	11.5	I	7	K=.2H	1	F.	1.6	23.0	11.0	67.8
3.4	12.7	III	2	K=H	1	—	1.7	25.4	10.9	65.4
2.6	12.9	I?	4	K=H	1	—	1.3	25.8	11.3	65.0
2.0	9.9	I	4	N	1	—	1.0	19.8	11.6	71.0
2.7	15.2	I	11	N	4	F.	1.4	30.4	11.2	60.4
2.3	20.1	I	5	N	1	—	1.2	40.2	11.4	50.6

Plate 1301.

22.3	13.7	II	2	K=H	1	—	11.2	27.4	6.4	22.2
22.3	16.0	II	2	K=H	1	—	11.2	32.0	6.4	17.6
21.3	14.6	II	2	K=H	1	—	10.6	29.2	7.0	20.4
20.1	9.6	III	2	K=H	1	—	10.0	19.2	7.6	30.4
20.7	11.2	II	2	K=H	1	—	10.4	22.4	7.2	27.2
20.5	12.6	II	4	K=H	1	—	10.2	25.2	7.4	24.4
20.0	13.7	II	2	K=H	1	—	10.0	27.4	7.6	22.2
20.1	13.8	I	5	N	1	F.	10.0	27.6	7.6	22.0
19.4	8.9	I	4	N	1	—	9.7	17.8	7.9	31.8

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No.	R.A.		Dec.		Mag.	H.	V.
2181	9	18.2	+9	25	8.2	31.0	12.5
2133	9	3.7	+9	34	6.8	30.9	12.6
2112	8	54.8	+9	3	8.2	90.2	12.4
2199	8	51.5	+9	32	7.5	90.1	12.5
2188	9	20.7	+9	41	5.3	31.1	12.5
2158	9	11.4	+9	42	7.8	31.0	12.6
2093	8	49.9	+9	56	6.0	90.1	12.5
1972	9	11.7	+10	24	7.2	30.9	12.6
1944	9	1.9	+10	21	8.5	30.9	12.6
1940	8	59.4	+10	14	8.0	90.2	12.5
1934	8	55.9	+10	27	8.3	90.3	12.4
1965	9	8.0	+10	38	7.8	31.0	12.6
1956	9	5.6	+10	54	7.8	31.0	12.6
1996	9	5.1	+11	15	8.0	30.9	12.5
2009	9	11.1	+11	34	8.0	30.9	12.6
1984	8	59.9	+11	14	5.8	90.3	12.6
1950	8	50.0	+11	23	8.2	90.2	12.6

2693	9	22.3	− 3	37	6.5		
~~2182~~	9	~~22.4~~	+ 6	16	~~7.7~~	49.7	17.6
2672	9	17.6	− 3	40	7.0		
~~2172~~	9	~~17.4~~	+ 6	15	~~9.1~~	49.6	17.5
2685	9	20.2	− 3	10	7.5	49.2	17.4
2939	9	30.4	− 2	31	6.0	49.6	17.5
2925	9	27.2	− 2	51	7.0	49.6	17.2
2917	9	24.5	− 2	45	7.5	49.7	17.4
2906	9	22.3	− 2	29	7.8	49.7	17.5
2904	9	22.0	− 2	32	7.8	49.6	17.5
2946	9	31.7	− 2	11	7.3	49.5	17.5

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Plate 1301.

	r	H	Type	No. Lines	K	Focus	Other lines.	V.	H.	V.	H.
	19.4	10.3	III	2	K=H	1	—	9.7	20.6	7.9	29.0
?	19.5	13.9	III	3	K=1.2H	4	F, prem.	9.8	27.8	7.8	21.8
	19.4	17.5	I	6	N	2	—	9.7	35.0	7.9	14.6
	18.4	13.8	I	8	K=.5H	2	—	9.2	27.6	8.4	22.0
	18.8	18.9	I	4	K=H	1	—	9.4	37.8	8.2	11.8
	17.1	21.0	I	8	K=.2H	2	F.	8.6	42.0	9.0	7.6
	16.3	8.6	III	2	K=1.2H	3	—	8.2	17.2	9.4	32.4
	16.4	12.5	I?	12	K=.2H	5	F.	8.2	25.0	9.4	24.6
	16.5	14.0	I	7	K=.5H	2	—	8.2	28.0	9.4	21.6
	16.9	15.3	II	2	K=H	1	—	8.4	30.6	9.2	19.0
	16.5	15.4	III	3	K=H	1	F.	8.2	30.8	9.4	18.8
	16.0	17.2	I	4	K=H	1	—	8.0	34.4	9.6	15.2
	15.6	15.8	I	4	K=H	1	—	7.8	31.6	9.8	18.0
	15.1	20.7	I	2	K=H	1	—	7.6	41.4	0.0	8.2
	14.4	7.3	II	2	K=H	1	—	7.2	14.6	0.4	35.0
	14.5	9.6	II	4	N	1	—	7.2	19.2	0.4	30.4
	14.8	17.4	II	2	K=H	1	—	7.4	34.8	0.2	14.8
	13.5	10.6	II	2	K=H	1	—	6.8	21.2	0.8	28.4
	13.6	18.2	III	1	N	1	—	6.8	36.4	0.8	13.2
	13.5	18.3	III	2	K=H	1	—	6.8	36.6	0.8	13.0
	13.9	19.4	II	2	K=H	1	—	7.0	38.8	0.6	10.8
	13.0	19.7	I	5	N	2	—	6.5	39.4	1.1	10.2
	13.5	22.7	III	2	K=H	1	—	6.8	45.4	0.8	4.2
	12.8	6.7	III	1	N	1	—	6.4	13.4	1.2	36.2
	12.7	15.5	II	2	K=H	1	—	6.4	31.0	1.2	18.6
	12.3	18.1	I	4	K=H	1	—	6.2	36.2	1.4	13.4
	12.2	18.7	III	2	K=H	1	—	6.1	37.4	1.5	12.2
	12.7	19.3	III	2	K=H	1	—	6.4	38.6	1.2	11.0

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No.	R.A.		Dec.		Mag.	M.	V.
2934	9	29.1	− 2	8	7.5	49.7	17.6
2901	9	21.8	− 2	7	5.0	49.6	17.7
2859	9	14.4	− 2	10	7.2	49.4	17.5
2268	9	22.1	− 1	34	6.7	49.7	17.6
2240	9	11.8	− 1	50	7.3	49.6	17.6
2158	9	7.5	− 0	39	7.1	49.5	17.6
2231	9	32.5	− 0	29	4.0	49.7	17.7
2211	9	24.6	− 0	32	4.8	49.6	17.7
2201	9	21.7	− 0	37	6.7	49.7	17.6
2195	9	19.0	− 0	50	6.2	49.6	17.6
2193	9	18.7	− 0	36	6.6	49.5	17.6
2184	9	15.1	− 0	28	8.0	49.5	17.5
2190	9	17.9	− 0	13 4	8.0	49.5	17.6
2161	9	8.1	− 0	2	8.9	49.5	17.6
2128	9	7.5	− 0	59	7.+	—	—
2546	9	35.0	+ 0	22	7.2	49.6	7.6
2536	9	30.5	+ 0	19	8.0	49.7	7.5
2504	9	14.8	+ 0	11	8.0	49.6	7.6
2533	9	28.4	+ 0	31	8.0	49.6	7.6
2499	9	13.2	+ 0	47	7.5	49.6	7.6
2498	9	13.0	+ 0	53	8.2	49.6	7.7
2493	9	10.7	+ 0	38	8.3	49.5	7.6
2271	9	10.1	+ 1	10	7.3	49.5	7.7
2477	9	4.0	+ 0	53	7.4	49.4	7.7
2352	9	36.2	+ 1	9	8.3	49.6	7.6
2299	9	18.5	+ 1	3	8.3	49.5	7.6
2296	9	17.6	+ +	15	9.3	—	—
2285	9	13.3	+ 1	29	8.5	49.5	7.7
2277	9	12.0	+ 1	30	8.0	49.4	7.6
2274	9	10.8	+ 1	19	8.0	49.4	7.7

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Plate 1301.

	V	H	Type	No. Lines	K	Focus	Other Lines.	V.	H.	V.	H.
?	12.6	20.1	III	2	K=H	2	perm.	6.3	40.2	1.3	9.4
?	11.1	12.8	III	2	K=H	2	perm.	5.6	25.6	2.0	24.0
	11.5	13.2	I	5	H	2	—	5.8	26.4	1.8	23.2
	11.0	16.0	III	2	K=H	1	—	5.5	32.0	2.1	17.6
	11.1	16.5	I	6	K=H	1	F.	5.6	33.0	2.0	16.6
	11.7	23.2	III	2	K=H	1	—	5.8	46.4	1.8	3.2
	10.2	9.4	III	2	K=H	1	—	5.1	18.8	2.5	20.8
	10.6	9.7	III	2	K=H	1	—	5.3	19.4	2.3	30.2
?	10.4	12.2	III	2	K=H	2	perm.	5.2	24.4	2.4	25.2
	10.2	17.2	III	1	H	1	—	5.1	34.4	2.5	15.2
	10.1	19.9	I	7	K=.8H	2	F.	5.0	39.8	2.6	9.8
	9.5	13.6	III	2	K=H	1	—	4.8	27.2	2.8	22.4
	9.3	16.7	III	2	K=H	1	—	4.6	33.4	3.0	16.2
	9.9	20.9	III	2	K=H	1	—	5.0	41.8	2.6	7.8
	9.5	21.3	I	11	H	5	F.	4.8	42.6	2.8	7.0
	8.6	6.8	III	2	K=H	1	—	4.3	13.6	3.3	36.0
	8.0	15.5	III?	2	K=H	1	—	4.0	31.0	3.6	18.6
	8.2	17.9	I?	7	K=H	2	F.	4.1	35.8	3.5	13.8
?	8.6	19.9	III	2	K=H	1	perm.	4.3	39.8	3.3	9.8
	8.4	21.6	III	2	K=H	1	—	4.2	43.2	3.4	6.4
	8.1	23.7	I	4	K=H	1	—	4.0	47.4	3.6	2.3
	7.6	8.7	III	2	K=H	1	—	3.8	17.4	3.8	32.2
?	7.9	13.0	III	3	K=2.0H	1	F, perm.	4.0	26.0	3.6	23.6
	7.1	16.9	I	6	K=H	2	F.	3.6	33.8	4.0	13.8
	7.3	17.9	I	3	K=H	1	F.	3.6	35.8	4.0	13.8
same as 6.4 22.4	~~7.6~~	~~22.5~~	~~I~~	~~4~~	~~K=H~~	~~1~~	~~—~~	~~3.8~~	~~45.0~~	~~3.8~~	~~4.6~~
	6.2	10.9	III	2	K=H	1	—	3.1	21.8	4.5	27.8
	6.5	21.8	I	4	H	1	—	3.2	43.6	4.4	6.0

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No.		R.A.	Dec.	Mag.	M.	V.
2267	9	9.2	+ 1 20	6.8	49.4	7.6
2215	9	24.0	+ 2 6	7.2	49.6	7.7
2317	9	23.1	+ 1 54	7.8	49.5	7.7
2197	9	17.4	+ 2 8	8.2	49.4	7.6
2195	9	16.4	+ 2 3	7.8	49.4	7.6
2247	9	3.1	+ 1 39	8.5	49.5	7.4
~~2249~~	~~9~~	~~32.2~~	~~+ 1~~	~~49~~	~~9.0~~	—
2230	9	30.8	+ 2 29	8.2	49.6	7.6
2229	9	30.2	+ 2 21	7.2	49.6	7.6
2217	9	25.2	+ 2 31	6.2	49.6	7.7
2188	9	15.0	+ 2 29	8.4	49.4	7.6
2173	9	9.7	+ 2 33	7.5	49.5	7.5
2212	9	22.3	+ 2 50	8.0	49.5	7.6
2196	9	16.1	+ 3 1	7.5	49.5	~~7.7~~ 7.6
2168	9	7.6	+ 2 40	7.5	49.4	7.7
2167	9	6.8	+ 2 56	4.3	49.4	7.7
2261	9	35.9	+ 3 17	7.5	49.5	7.6
2202	9	18.5	+ 3 39	7.8	49.5	7.6
2193	9	13.6	+ 3 34	7.2	49.4	7.7
2182	9	9.7	+ 3 17	8.0	49.5	7.6
2173	9	6.4	+ 3 28	8.0	49.6	7.7
2154	9	2.0	+ 3 32	7.8	49.4	7.5
~~2155~~	~~9~~	~~32.2~~	~~+ 3~~	~~56~~	~~9.5~~	—
2249	9	32.1	+ 3 51	7.7	49.5	7.6
2221	9	23.6	+ 3 44	7.2	49.6	7.7
2178	9	15.7	+ 4 8	7.8	49.5	7.7
~~2195~~	~~9~~	~~15.4~~	~~+ 3~~	~~58~~	~~8.8~~	—
2171	9	13.7	+ 4 2	8.0	49.5	7.6
~~2162~~	~~9~~	~~4.5~~	~~+ 3~~	~~44~~	~~8.5~~	~~7.5~~
2213	9	27.8	+ 4 33	8.0	49.7	7.6
2144	9	5.8	+ 4 26	7.7	49.4	7.6

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Plate 1301.

r	H	Type	No. Lines	K	Focus	Other Lines.	V.	H.	V.	H.
6.4	22.4	I	8	N	3	F.	3.2	44.8	4.4	4.8
5.5	15.9	I	6	K=.5H	1	—	2.8	31.8	4.8	17.8
5.4	17.4	I	4	N	1	—	2.7	34.8	4.9	14.8
4.8	9.4	III	3	K=H	3	F.	2.4	18.8	5.2	20.8
4.5	16.3	I	5	K=.5H	1	—	2.2	32.6	5.4	17.0
3.7	16.7	I	7	K=.2H	2	F.	1.8	33.4	5.8	16.2
3.7	18.6	I	8	K=.5H	2	F.	1.8	37.2	5.8	12.4
3.1	22.6	I	5	K=H	1	F.	1.6	45.2	6.0	4.4
2.8	13.6	III	2	K=H	1	—	1.4	27.2	6.2	22.4
2.9	17.5	III	2	K=H	1	—	1.4	35.0	6.2	14.6
2.5	21.9	I	6	N	1	F.	1.2	43.8	6.4	5.8

Plate 1308.

22.1	14.1	II	2	K=H	1	—	11.0	28.2	6.6	22.0
22.2	16.4	II	2	K=H	1	—	11.1	32.8	6.5	17.4
20.1	10.0	III	2	K=H	1	—	10.0	20.0	7.6	30.2
20.6	11.6	II	2	K=H	1	—	10.3	23.2	7.3	7.0
20.4	12.9	I	5	K=H	1	—	10.2	25.8	7.4	24.4
20.0	14.1	II	2	K=H	1	—	10.0	28.2	7.6	22.0
20.0	14.2	I	6	K=H	1	—	10.0	28.4	7.6	21.8
19.4	9.3	I	6	K=.2H	1	—	9.7	18.6	7.9	31.6
19.2	10.6	III	2	K=H	1	—	9.6	21.2	8.0	29.0
19.5	14.3	II	3	K=.2H	4	F. Scat.	9.8	28.6	7.8	21.6
19.4	17.9	I	5	N	1	F.	9.7	35.8	7.9	14.4
18.4	14.2	I	8	K=.5H	2	F.	9.2	28.4	8.4	21.8
18.6	19.3	I	3	N.	1	—	9.3	38.6	8.3	11.6
17.3	18.6	I	2	K=H	1	—	8.6	37.2	9.0	13.0
17.0	21.4	I	5	N	1	—	8.5	42.8	9.1	7.4

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No.	R.A.		Dec.		Mag.	M.	V.
2139	9	4.6	+ 4	28	7.2	49.4	7.7
2185	9	17.8	+ 4	54	8.0	49.6	7.7
2174	9	14.8	+ 4	59	8.2	49.6	7.7
2207	9	30.9	+ 5	18	5.0	49.7	7.7
2171	9	16.8	+ 5	23	8.1	49.4	7.6
2169	9	16.0	+ 5	50	7.5	49.4	7.6
2158	9	12.2	+ 5	50	7.1	49.4	7.6
~~2160~~	~~9~~	~~12.3~~	~~+ 5~~	~~45~~	~~8.9~~	~~49.5~~	~~7.6~~
2220	9	4.3	+ 6	54	7.0	49.5	7.7
2182	9	22.4	+ 6	16	7.7	49.6	7.7
2155	9	14.5	+ 6	12	8.0	49.5	7.6
2229	9	5.7	+ 6	25	8.0	49.5	7.6

2673	9	22.3	- 3	37	6.5	50.5	17.4
2672	9	17.6	- 3	40	7.0	50.4	17.4
~~2671~~	~~9~~	~~17.4~~	~~- 3~~	~~37~~	~~9.4~~	—	—
2939	9	30.4	- 2	31	6.0	50.4	17.5
2926	9	27.6	- 2	29	8.8		
~~2924~~	~~9~~	~~27.0~~	~~- 2~~	~~30~~	~~8.3~~	~~50.2~~	~~17.8~~
2917	9	24.5	- 2	45	7.5	50.3	17.4
2906	9	22.3	- 2	29	7.8	50.3	17.5
~~2904~~	~~9~~	~~22.0~~	~~- 2~~	~~32~~	~~7.3~~	—	—
2904	9	22.0	- 2	32	7.3	50.4	17.5
~~2900~~	~~9~~	~~21.8~~	~~- 2~~	~~32~~	~~9.2~~	—	—
2946	9	31.7	- 2	11	7.3	50.3	17.5
2934	9	29.1	- 2	8	7.5	50.3	17.5
2901	9	21.8	- 2	7	5.0	50.4	17.5
~~2267~~	~~9~~	~~21.6~~	~~- 1~~	~~7~~	~~9.5~~	—	—
2859	9	14.6	- 2	10	7.2	50.4	17.5
2268	9	22.1	- 1	34	6.7	50.5	17.6
2240	9	11.8	- 1	50	7.3	50.4	17.5
~~2243~~	~~9~~	~~13.2~~	~~- 1~~	~~13~~	~~9.1~~	~~50.4~~	~~17.4~~
2158	9	7.5	- 0	59	7.1	50.3	17.5

9 27.3-2.9 D.

9 33.2-1.1 ?

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Plate 1308.

V	H	Type	No. Lines	K	Focus	Other Lines	V.	H.	V.	H.
16.3	8.9	III	3	K=2.0H	4	F.	8.2	17.8	9.4	32.4
16.3	12.9	I	11	K=.2H	4	F.	8.2	25.8	9.4	24.4
16.5	14.3	I	7	K=.5H	2	F.	8.2	28.6	9.4	21.6
16.8	15.6	III	3	K=H	1	F.	8.4	31.2	9.2	19.0
16.4	15.8	III	1	N	1	—	8.2	31.6	9.4	18.6
15.5	16.2	I	4	K=H	1	—	7.8	32.4	9.8	17.8
14.6	6.2	III	2	K=H	1	—	7.3	12.4	0.3	37.8
14.4	7.6	II	2	K=H	1	—	7.2	15.2	0.4	35.0
14.5	9.9	II	1	N	1	—	7.2	19.8	0.4	30.4
14.7	17.7	II	2	K=H	1	—	7.4	35.4	0.2	24.8
13.5	18.4	III	2	K=H	1	—	6.8	36.8	0.8	13.4
13.3	18.5	III?	1	N	1	—	6.6	37.0	1.0	13.2
13.2	23.0	III	2	K=H	1	—	6.6	46.0	1.0	4.2
12.5	11.4	II	2	K=H	1	—	6.2	22.8	1.4	27.4
12.6	15.8	II	2	K=H	1	—	6.3	31.6	1.3	18.6
12.2	18.4	I	5	K=.2H	1	—	6.1	36.8	1.5	13.4
11.0	13.1	II	3	K=H	1	F.	5.5	26.2	2.1	24.0
11.4	13.5	I	6	N	1	—	5.7	27.0	1.9	23.2
11.0	16.8	II	3	K=H	1	F.	5.5	33.6	2.1	16.6
10.3	5.6	I	5	K=1.2H	2	F.	5.2	11.2	2.4	39.0
10.1	9.7	II	2	K=H	1	—	5.0	19.4	2.6	30.8
10.5	10.0	III	2	K=H	1	—	5.2	20.0	2.4	30.2
10.0	10.1	II?	2	K=H	1	—	5.0	20.2	2.6	30.0
10.3	12.5	II	2	K=H	2	[illegible]	5.2	25.0	2.4	25.2
10.0	20.2	I	6	K=H	1	—	5.0	40.4	2.6	9.8
9.4	13.9	II	2	K=H	1	—	4.7	27.8	2.9	22.4
9.1	16.9	III	2	K=H	1	—	4.6	33.8	3.0	16.4
9.4	21.6	I	10	N	5	F.	4.7	43.2	2.9	7.0

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No		R.A.	Dec.		Mag.	H.	V.
2231	9	32.5	− 0	29	4.0	50.3	17.7
2211	9	24.6	− 0	32	4.8	50.4	17.7
2201	9	21.7	− 0	37	6.7	50.3	17.6
2195	9	19.0	− 0	50	6.2	50.2	17.6
2193	9	18.7	− 0	36	6.6	50.3	17.6
2190	9	17.9	− 0	18	8.0	50.3	17.6
2551	9	37.8	+ 0	12	7.7	50.2	7.5
2546	9	35.0	+ 0	22	7.2	50.2	7.6
2536	9	30.5	+ 0	19	8.0	50.3	7.5
2504	9	14.8	+ 0	11	8.0	50.2	7.6
2499	9	13.2	+ 0	47	7.5	50.0	7.6
~~2501~~	~~9~~	~~13.5~~	~~+ 0~~	~~50~~	~~9.3~~	—	—
2498	9	13.0	+ 0	53	8.2	50.0	7.6
~~2284~~	~~9~~	~~13.1~~	~~+ 1~~	~~7~~	~~9.5~~	—	—
2477	9	4.0	+ 0	53	7.4	50.0	7.6
~~2251~~	~~9~~	~~4.0~~	~~+ 1~~	~~9~~	~~9.5~~	—	—
2327	9	27.4	+ 1	18	8.3	50.2	7.5
2299	9	18.5	+ 1	13	8.3	50.1	7.5
2285	9	13.3	+ 1	29	8.5	50.1	7.6
2215	9	24.0	+ 2	6	7.2	50.2	7.6
2316	9	23.1	+ 1	54	7.8	50.1	7.6
2195	9	16.4	+ 2	3	7.8	50.0	7.6
2246	9	38.9	+ 2	27	5.6	50.1	7.6
~~2247~~	~~9~~	~~39.1~~	~~+ 2~~	~~23~~	~~8.0~~	~~50.3~~	~~7.6~~
2230	9	30.8	+ 2	29	8.2	50.2	7.5
2229	9	30.2	+ 2	21	7.2	50.2	7.5
2227	9	29.9	+ 2	32	8.0	50.1	7.5
2217	9	25.2	+ 2	31	6.2	50.2	7.7
2173	9	9.7	+ 2	33	7.5	50.1	7.6
2212	9	22.4	+ 2	48	8.0	50.2	7.5
2196	9	16.1	+ 3	0	7.5	49.9	7.6
2167	9	6.8	+ 2	56	4.3	50.0	7.7

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Plate 1308.

V	H	Type	No. lines	K	Focus	Other lines	V.	H.	V	H
8.6	7.1	III?	2	K=H	1	—	4.3	14.2	3.3	36.0
8.1	18.2	II	7	K=H	1	F.	4.0	36.4	3.6	13.8
8.6	20.2	II	2	K=H	1	—	4.3	40.4	3.3	9.8
7.5	9.0	III	2	K=H	1	—	3.8	18.0	3.8	32.2
7.8	13.3	II	2	K=H	1	—	3.9	26.6	3.7	23.6
7.9	15.8	I	4	N	1	—	4.0	31.6	3.6	18.6
7.0	17.2	I	7	K=H	1	F.	3.5	34.4	4.1	13.8
7.0	18.2	II	2	K=H	1	—	3.5	36.4	4.1	13.8
7.6	22.8	II	2	K=H	1	—	3.8	43.6	3.8	4.6
6.1	11.1	III	2	K=H	1	—	3.0	22.2	4.6	28.0
6.3	22.1	II	2	K=H	1	—	3.2	44.2	4.4	6.0
6.2	22.7	I	8	N	2	F.	3.1	45.4	4.5	4.8
5.4	16.1	I	4	N	1	—	2.7	32.2	4.9	18.0
5.2	17.6	I	4	?	1	—	2.6	33.2	5.0	13.0
4.7	9.6	III	3	K=H	3	F.	2.4	19.2	5.2	30.0
? 4.4	16.6	II	2	K=H	1	F? smu.	2.2	33.2	5.4	17.0
3.6	17.0	I	6	N	1	—	1.8	34.0	5.8	16.2
3.6	18.9	I	6	K=.5H	1	—	1.8	37.8	5.8	12.4
3.0	22.9	I?	V	K=H?	1	—	1.5	45.8	6.1	4.4
2.7	13.9	III	2	K=H	1	—	1.4	27.8	6.2	22.4
2.4	22.2	I?	4	N	1	—	1.2	44.4	6.4	5.8

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No.	R.A.	Dec.	Mag.	W.	V.
2261	9 35.9	+ 3 17	7.5	50.1	7.6
2193	9 13.6	+ 3 34	7.2	50.0	7.6
2182	9 9.7	+ 3 17	8.0	50.1	7.6
2249	9 32.1	+ 3 51	7.7	50.1	7.6
2221	9 23.6	+ 3 44	7.2	50.2	7.6
2202	9 18.5	+ 3 39	7.8	50.1	7.6
2178	9 15.7	+ 4 8	7.8	50.1	7.6
2171	9 13.7	+ 4 2	8.0	50.1	7.5
2162	9 4.5	+ 3 44	8.5	50.1	7.5
2213	9 27.9	+ 4 33	8.0	50.1	7.6
2144	9 5.9	+ 4 26	7.7	50.1	7.6
2139	9 4.6	+ 4 28	7.2	50.0	7.6
2185	9 17.8	+ 4 54	8.0	50.0	7.6
~~2174~~	~~9 14.8~~	~~+ 4 39~~	~~8.2~~	~~50.0~~	~~7.6~~
~~2175~~	~~9 15.1~~	~~+ 4 56~~	~~9.2~~		
2207	9 30.9	+ 5 18	5.0	50.1	7.7
2171	9 16.8	+ 5 23	8.1	50.1	7.6
2169	9 16.0	+ 5 50	7.5	50.0	7.6
~~2158~~	~~9 12.2~~	~~+ 5 30~~	~~7.9~~	~~50.0~~	~~7.6~~
~~2159~~	~~9 12.3~~	~~+ 5 44~~	~~8.9~~		
2220	9 4.3	+ 6 3	7.0	50.1	7.5
2182	9 22.4	+ 6 16	7.7	50.2	7.7
2229	9 5.7	+ 6 25	8.0	50.1	7.6

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Plate 1207.

	Y	H	Type	No. Lines	K	Focus	Other Lines.	V.	H.	V.	H.
2 15	21.8	12.4	II	2	K=H	1	–	10.9	24.8	1.7	46.9
	20.3	16.3	I	8	K=H	3	–	10.2	32.6	2.4	38.1
	20.0	20.4	III	2	K=H	1	–	10.0	40.8	2.6	30.9
	20.2	20.7	II	2	K=H	1	–	10.1	41.4	2.5	30.3
	20.7	23.8	II	2	K=H	1	–	10.4	47.6	2.2	24.1
	19.1	15.9	I?	3	K	1	–	9.6	31.8	3.0	29.9
?	20.0	23.2	II	3	K=H	2	F, sum	10.0	46.4	2.6	25.3
	18.1	11.8	I	5	K	1	–	9.0	23.6	3.6	48.1
	18.9	13.7	I	8	K	4	F.	9.4	27.4	3.2	44.3
	18.5	17.8	II	2	K=H	1	–	9.2	35.6	3.4	36.1
?	17.4	7.7	II	3	K=H	2	F, sum	8.7	15.4	3.9	56.3
	17.0	9.9	I	8	K=√H	2	F	8.5	19.8	4.1	51.9
	17.0	12.6	III	2	K=H	1	–	8.5	25.2	4.1	46.5
	17.7	13.4	I	4	K	1	–	8.8	26.8	3.8	44.9
	17.0	14.0	I	6	K	2	–	8.5	28.0	4.1	43.7
	17.4	19.7	III	2	K=H	1	–	8.7	39.4	3.9	32.3
	17.5	24.0	II	2	K=H	1	–	8.8	48.0	3.8	23.7
	15.8	8.0	III	2	K=H	1	–	7.9	16.0	4.7	55.7
?	15.4	11.4	II	2	K=H	2	sum.	7.7	22.8	4.9	48.9
?	15.2	14.5	II	2	K=H	2	sum.	7.6	29.0	5.0	42.7
	15.9	21.9	II?	2	K=H	1	–	8.0	43.8	4.6	27.9
	14.4	8.1	II	2	K=H	1	–	7.2	16.2	5.4	55.5
	14.6	13.2	III	2	K=H	1	–	7.3	26.4	5.3	43.3
	14.5	20.3	III	3	K=H	3	F.	7.2	40.6	5.4	31.1
	13.7	7.4	II	2	K=H	1	–	6.8	14.8	5.8	56.9
	13.4	9.9	III	2	K=H	1	F?	6.7	19.8	5.9	51.9
	13.5	11.0	II	2	K=H	1	–	6.8	22.0	5.8	49.7
	13.9	12.8	III	3	K=H	1	F.	7.0	25.6	5.6	46.1

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No.		R.A.	Dec.		Mag.	M.	V.
2381	9	47.1	+ 1	38	7.4	71.9	12.5
~~2378~~	~~9~~	~~46.9~~	~~+ 1~~	~~29~~	~~9.5~~		
2246	9	38.9	+ 2	27	5.6	71.5	12.5
~~2247~~	~~9~~	~~39.1~~	~~+ 2~~	~~23~~	~~8.0~~	~~71.7~~	~~12.6~~
2230	9	30.8	+ 2	29	8.2	71.6	12.5
2229	9	30.2	+ 2	21	7.2		
~~2228~~	~~9~~	~~30.2~~	~~+ 2~~	~~27~~	~~9.5~~	71.6	12.5
2215	9	24.0	+ 2	6	7.2	71.6	12.5
2249	9	39.9	+ 2	59	8.2	71.7	12.6
2217	9	25.2	+ 2	31	6.2	71.6	12.5
2290	9	48.5	+ 3	29	8.5	72.1	12.5
~~2289~~	~~9~~	~~48.0~~	~~+ 3~~	~~41~~	~~9.5~~		
2280	9	44.7	+ 3	8	6.0	72.1	12.5
~~2275~~	~~9~~	~~44.4~~	~~+ 3~~	~~8~~	~~9.1~~	—	—
2261	9	36.0	+ 3	17	7.5	71.6	12.5
2311	9	56.6	+ 3	54	6.5	72.0	12.6
2276	9	52.2	+ 4	4	6.5	72.0	12.6
2262	9	46.9	+ 4	1	8.2	72.1	12.5
2283	9	45.3	+ 3	39	8.6	72.1	12.4
2258	9	44.0	+ 4	3	7.7	72.0	12.5
~~2257~~	~~9~~	~~43.7~~	~~+ 4~~	~~6~~	~~9.5~~	—	—
2249	9	32.1	+ 3	51	7.7	71.5	12.5
2221	9	23.6	+ 3	44	7.2	71.6	12.5
2283	9	56.1	+ 4	40	7.5	72.1	12.6
2269	9	49.3	+ 4	56	7.5	72.1	12.6
~~2266~~	~~9~~	~~49.1~~	~~+ 4~~	~~44~~	~~8.2~~		
2240	9	43.0	+ 5	1	6.7	72.0	12.6
~~2238~~	~~9~~	~~42.5~~	~~+ 5~~	~~5~~	~~9.5~~	—	—
2213	9	27.9	+ 4	33	8.0	71.7	12.6
2274	9	55.7	+ 5	22	8.4	71.9	12.6
2245	9	45.6	+ 5	13	8.3	72.0	12.5
2207	9	30.9	+ 5	18	5.0		
~~2210~~	~~9~~	~~31.5~~	~~+ 5~~	~~25~~	~~9.4~~	71.5	12.5
2280	9	57.2	+ 5	42	8.1	72.0	12.5
~~2279~~	~~9~~	~~56.9~~	~~+ 5~~	~~49~~	~~9.0~~		
2267	9	52.1	+ 5	55	8.1	71.9	12.6
~~2265~~	~~9~~	~~51.9~~	~~+ 5~~	~~45~~	~~9.3~~	—	—
2259	9	49.9	+ 5	48	8.4	71.9	12.6
2248	9	46.5	+ 5	38	7.4		
~~2247~~	~~9~~	~~46.3~~	~~+ 5~~	~~38~~	~~9.0~~	72.1	12.6

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May 9, 1887.

Plate 1207.

			No.			Other					
T	H	Type	lines	K	Focus	lines.	V.	Th.	V.	Th.	
12.6	6.4	II	3	K=1.5H	2	F.	6.3	12.8	6.3	58.9	
12.0	13.0	III	2	K=H	1	—	6.0	26.0	6.6	45.7	
12.6	15.8	III	2	K=H	1	—	6.3	31.6	6.3	40.1	
11.3	9.7	II	2	K=H	1	—	5.6	19.4	7.0	52.3	
11.5	10.5	II	2	K=H	1	—	5.8	21.0	6.8	50.7	
11.2	17.8	III	1	N	1	—	5.6	35.6	7.0	36.1	
10.5	16.5	III	3	K=H	1	F.	5.2	33.0	7.4	38.7	
10.2	20.9	III	3	K=1.2H	3	F.	5.1	41.8	7.5	29.9	
9.5	12.4	I	V	N	1	—	4.8	24.8	7.8	46.9	
10.0	12.8	I	3	N	1	—	5.0	25.6	7.6	46.1	
8.6	11.8	III	2	K=H	1	—	4.3	23.6	8.3	48.1	
8.6	20.4	I	6	K=H	1	F.	4.3	40.8	8.3	30.9	
7.8	7.3	II	2	K=H	1	—	3.9	14.6	8.7	57.1	
7.4	8.2	II	1	N	1	—	3.7	16.4	8.9	55.3	
? 7.9	9.7	III	3	K=H	3	F.vcm.	4.0	19.4	8.6	32.3	
7.4	10.8	III	2	K=H	2	—	3.7	21.6	8.9	50.1	
7.9	12.8	III	2	K=H	1	—	4.0	25.6	8.6	46.1	
7.4	15.2	II	3	K=H	1	F.	3.7	30.4	8.9	41.3	
7.5	19.5	II	2	K=H	1	—	3.8	39.0	8.8	32.7	
6.1	11.6	III	2	K=H	2	—	3.0	23.2	9.6	48.5	
6.9	16.0	I	7	K=.8H	2	F.	3.4	32.0	9.2	39.7	
? 6.3	17.0	II	2	K=1.2H	1	vcm.	3.2	34.0	9.4	37.7	
6.0	19.0	I	7	K=.8H	2	F.	3.0	38.0	9.6	33.7	
5.6	22.9	II	2	K=H	1	—	2.8	45.8	9.8	23.9	
4.0	8.1	I	4	K=H	1	—	2.0	16.2	10.6	55.5	
4.3	19.0	I?	9	K=H	V	F.	2.2	38.0	10.4	33.7	
4.6	23.5	III	2	K=H	2	—	2.3	47.0	10.3	24.7	
3.8	6.0	III	3	K=2.0H?	3	F	1.9	12.0	10.7	59.7	

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No		R.A.	Dec	Mag		H	V
2259	9	39.2	+ 6	20	6.9	72.0	12.6
~~2256~~	~~9~~	~~38.8~~	~~+ 6~~	~~12~~	~~9.3~~		
2224	9	46.1	+ 6	39	6.5	72.1	12.6
~~2223~~	~~9~~	~~45.7~~	~~+ 6~~	~~33~~	~~9.3~~	—	—
2212	9	40.1	+ 6	13	8.8	71.7	12.5
2240	9	52.6	+ 6	56	8.0	72.0	12.5
2237	9	51.1	+ 6	48	8.0	72.1	12.6
2206	9	35.9	+ 6	52	8.3	71.5	12.5
2181	9	38.5	+ 7	22	5.8	71.5	12.6
2160	9	29.6	+ 7	29	5.8	71.4	12.6
~~2161~~	~~9~~	~~29.6~~	~~+ 7~~	~~40~~	~~9.5~~	—	—
2206	9	47.2	+ 7	51	8.3	72.0	12.6
~~2205~~	~~9~~	~~46.9~~	~~+ 7~~	~~46~~	~~9.0~~	71.7	—
2203	9	46.4	+ 7	38	8.5	72.0	12.4
~~2201~~	~~9~~	~~46.2~~	~~+ 7~~	~~48~~	~~9.3~~	—	—
2289	9	48.3	+ 8	23	7.5	71.9	12.7
~~2288~~	~~9~~	~~48.0~~	~~+ 8~~	~~23~~	~~9.2~~	—	—
2249	9	30.7	+ 8	22	7.7	71.5	12.7
2316	9	57.4	+ 8	41	7.5	72.0	12.6
2311	9	55.6	+ 8	56	8.2	72.0	12.6
2301	9	52.5	+ 8	44	5.0	71.9	12.7
~~2300~~	~~9~~	~~52.4~~	~~+ 8~~	~~38~~	~~9.5~~	—	—
2269	9	30.5	+ 9	2	6.8	72.0	12.7
~~2291~~	~~9~~	~~49.9~~	~~+ 8~~	~~59~~	~~9.4~~	—	—
2285	9	46.4	+ 8	45	7.2	72.0	12.6
2268	9	41.2	+ 8	58	8.0	71.6	12.7
2251	9	32.5	+ 8	56	7.8	71.5	12.7
2262	9	48.8	+ 9	38	6.2	72.0	12.6
2239	9	39.6	+ 9	15	7.0	71.6	12.6
2233	9	37.6	+ 9	33	8.0	72.0	12.8
2226	9	33.5	+ 9	40	7.5	71.5	12.7
2200	9	25.5	+ 9	49	8.3	71.3	12.6
2100	9	55.8	+ 10	36	7.2	72.0	12.6
2044	9	33.4	+ 10	32	3.7	71.4	12.7
~~2045~~	~~9~~	~~33.5~~	~~+ 10~~	~~15~~	~~9.5~~	—	—
2014	9	24.2	+ 10	21	6.0	71.2	12.7
~~2015~~	~~9~~	~~24.2~~	~~+ 10~~	~~21~~	~~9.3~~	—	—
2212	10	0.2	+ 10	43	5.0	122	12.6

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Plate 1207.

V	H	Type	No. Lines	K	Focus	Other lines	V.	H.	V.	H.
3,0	10,5	III	2	K=H	1	—	1.5	21.0	11.1	50.7
3,8	15,7	III	1	N	1	—	1.9	31.4	10.7	40.3
3,2	15,8	I	5	K=H	1	—	1.6	31.6	11.0	40.1
3,0	10,5	III	2	K=H	1	—	1.5	21.0	11.1	50.7
2,0	10,5	I	3	N	1	—	1.0	21.0	11.6	50.7
2,2	14,4	I	4	K=H	1	—	1.1	28.8	11.5	42.9
3,0	17,8	I	4	K=H	1	—	1.5	35.6	11.1	36.1
2,5	20,2	I	5	N	2	—	1.2	40.4	11.4	31.3
2,3	21,3	I	4	N	1	—	1.2	42.6	11.4	29.1

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No.	R. A.		Dec.		Mag.		H.	V.
2136	9	51.0	+	11	9	7.2	72.0	12.7
~~2133~~	~~9~~	~~50.7~~	~~+~~	~~11~~	~~7~~	~~9.0~~		
2054	9	40.6	+	10	44	7.7	71.4	12.6
~~2053~~	~~9~~	~~40.3~~	~~+~~	~~10~~	~~39~~	~~9.5~~		
2104	9	40.0	+	11	3	8.0	71.6	12.6
2136	9	51.0	+	11	9	7.2	72.0	12.7
~~2133~~	~~9~~	~~50.7~~	~~+~~	~~11~~	~~7~~	~~9.0~~		
2134	9	50.9	+	11	39	7.3	71.9	12.6
2112	9	43.2	+	11	34	8.2	72.0	12.7
~~2109~~	~~9~~	~~43.0~~	~~+~~	~~11~~	~~24~~	~~9.3~~		
2087	9	35.8	+	11	11	8.0	71.4	12.7
2071	9	31.0	+	11	26	7.7	71.4	12.6
~~2074~~	~~9~~	~~31.4~~	~~+~~	~~11~~	~~32~~	~~8.9~~		
2064	9	28.4	+	11	30	7.7	71.3	12.7
~~2065~~	~~9~~	~~28.9~~	~~+~~	~~11~~	~~33~~	~~9.3~~		

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Plate 1349.

	V	H	Type	No. lines	K	Focus	Other lines.	V	H	V.	H.	Correc.
9	15	22.5	22.0	II	2	K=H	1	—	11.2	44.0	21.5	6.0	− 1.5
		21.5	9.6	II	2	K=H	1	—	10.8	19.2	21.9	30.8	+ 1.1
		21.9	14.0	I	8	K=1.2H	2	—	11.0	28.0	21.7	22.0	+ 0.3
		20.0	11.5	III	2	K=H	1	—	10.0	23.0	22.7	27.0	+ 0.7
		20.0	17.5	II	2	K=H	1	—	10.0	35.0	22.7	35.0	− 0.6
		19.5	7.2	II	2	K=H	1	—	9.8	14.4	22.9	35.6	+ 1.8
		19.4	21.4	I	4	I1	1	—	9.7	42.8	23.0	7.2	− 1.5
		18.4	9.7	III	6	K=H	1	F	9.2	~~19.4~~ 19.4	23.5	30.6	+ 1.3
		18.4	11.7	I	10	I1	4	F	9.2	~~20.4~~ 23.4	23.5	26.6	+ 0.7
		19.0	19.5	I	4	I1	1	—	9.5	39.0	23.2	11.0	− 1.1
		18.3	22.3	I	5	K=H	1	—	9.2	44.6	23.5	5.4	− 1.8
		17.2	13.0	I	5	K=H	1	—	8.6	26.0	24.1	24.0	+ 0.5
		17.6	18.6	I	7	K=1.2H	2	—	8.8	37.2	23.9	~~29.8~~ 12.8	− 0.9
		16.8	12.6	I	5	K=1.8H	1	—	8.4	25.2	24.3	24.8	+ 0.6
		16.3	13.4	II	2	K=H	1	—	8.2	26.8	24.5	23.2	+ 0.5
		16.0	15.8	III	2	K=H	1	—	8.0	31.6	24.7	18.4	− 0.3
		16.3	20.8	III?	2	K=H	1	—	8.2	~~41.6~~ 41.6	24.5	8.4	− 1.5
		16.9	22.1	III	2	K=H	1	—	8.4	44.2	24.3	5.8	− 1.9
		15.4	6.3	II	3	K=H	1	F	7.7	12.6	25.0	37.4	+ 2.5
		15.3	12.3	I	8	K=1.2H	2	—	7.6	24.6	25.1	25.4	+ 0.7
?		15.7	14.1	II	5	K=H	3	F faint	7.8	28.2	24.9	21.8	+ 0.3
		15.9	19.9	III	3	K=1.2H	3	F	8.0	39.8	24.7	10.2	− 1.3
		14.7	13.4	I	9	K=1.2H	4	F	7.4	26.8	25.3	23.2	+ 0.5
		15.0	13.9	II	2	K=H	1	—	7.5	27.8	25.2	22.2	+ 0.3
		14.3	17.2	I	8	I1	3	F	7.2	34.4	25.5	15.6	− 0.7
		13.8	17.6	I	6	K=H	1	—	6.9	35.2	25.8	14.8	− 0.7
		13.6	18.5	I	4	K=H	1	—	6.8	37.0	25.9	13.0	− 1.1
		12.3	7.7	II?	2	K=H	1	—	6.2	15.4	26.5	34.6	+ 2.4

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mec	No.	R.A.		Dec.		Mag.	M.	V.	M'
1.5	2398	12	4.8	+ 21	22	6.0	48.8	32.6	50.3
1.1	2439	12	31.9	+ 21	32	5.7	51.1	32.7	50.0
0.3	2424	12	22.4	+ 21	42	5.8	50.4	32.7	50.1
0.7	2490	12	27.9	+ 22	41	6.5	50.9	32.7	50.2
0.6	2464	12	14.4	+ 22	40	7.4	49.4	32.7	50.0
1.8	2506	12	37.2	+ 22	47	7.4	51.6	32.6	49.8
1.5	2451	12	5.9	+ 22	51	7.5	48.7	32.5	50.2
1.3	2479	12	31.8	+ 23	27	7.0	51.2	32.6	49.9
0.7	2475	12	27.6	+ 23	26	4.8	51.0	32.6	50.3
1.1	2441	12	10.0	+ 23	0	7.7	49.0	32.5	50.1
	2429	12	4.0	+ 23	24	7.3	48.6	32.6	50.4
1.8	~~2425~~	~~12~~	~~3.5~~	+ ~~23~~	~~25~~	~~9.3~~	~~48.1~~	~~32.6~~	~~49.9~~
0.5	2467	12	24.6	+ 24	5	7.3	50.6	32.7	50.1
0.9	2448	12	12.0	+ 23	50	6.3	49.2	32.6	50.1
0.6	2470	12	25.6	+ 24	14	8.9	50.8	32.6	50.2
	~~2468~~	~~12~~	~~23.4~~	+ ~~24~~	~~4~~	~~8.9~~			
0.5	2466	12	23.8	+ 24	36	7.5	50.6	32.8	50.1
0.3	2455	12	18.0	+ 24	44	6.0	49.6	32.7	49.9
1.5	2441	12	7.1	+ 24	29	7.5	48.7	32.7	50.2
	2436	12	4.4	+ 24	8	8.6	48.6	32.5	50.5
1.9	~~2434~~	~~12~~	~~4.2~~	+ ~~24~~	~~21~~	~~9.2~~			
	2493	12	39.4	+ 24	56	8.5			
+2.5	~~2561~~	~~12~~	~~40.1~~	+ ~~25~~	~~0~~	~~8.5~~			
0.7	2523	12	26.4	+ 25	1	6.3	51.0	32.6	50.3
0.3	2464	12	22.2	+ 24	54	5.7	50.4	32.7	50.1
1.3	2443	12	9.0	+ 24	47	5.3	49.8	32.8	50.1
+0.5	2517	12	23.8	+ 25	22	5.3	50.6	32.6	50.1
	2513	12	23.7	+ 25	8	7.7	50.5	32.6	50.2
+0.3	~~2511~~	~~12~~	~~22.4~~	+ ~~25~~	~~18~~	~~9.0~~			
0.7	2498	12	14.9	+ 25	34	6.5	49.3	32.8	50.0
	2495	12	14.1	+ 25	49	7.5	49.3	32.7	50.0
0.7	~~2494~~	~~12~~	~~14.1~~	+ ~~25~~	~~54~~	~~9.5~~			
1.1	2487	12	11.9	+ 25	52	7.5	48.9	32.7	50.1
	2385	12	36.5	+ 26	27	7.5	51.9	32.6	49.5
+2.4	~~2386~~	~~12~~	~~37.1~~	+ ~~26~~	~~44~~	~~9.4~~			

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Plate 1349.

			No.			Other					
r	H	Type	Lines	K.	Focus	Lines.	V.	H.	V.	H.	Correc.
12,1	13,2	I	5	H	1	—	6.0	26.4	26.7	23.6	+ 0.5
12,1	14,4	I	9	H	4	F.	6.0	28.8	26.7	21.2	+ 0.1
12,1	14,5	I	5	H	1	—	6.0	29.0	26.7	21.0	+ 0.1
12,0	15,0	I	7	K=2H	1	—	6.0	30.0	26.7	20.0	- 0
12,7	16,2	I	7	K=H	1	—	6.4	32.4	26.3	17.6	- 0.5
12,1	16,3	I	6	K=1,8H	1	—	6.0	32.6	26.7	17.4	- 0.5
12,2	17,1	I?	9	K=1,5H	4	F.	6.1	34.2	26.6	15.8	- 0.7
12,6	19,2	I	4	K=H	1	—	6.3	38.4	26.4	11.6	- 1.3
12,0	21,9	III	2	K=H	1	—	6.0	43.8	26.7	6.2	- 2.3
11,5	7,9	I	6	K=H	1	F.	5.8	15.8	26.9	34.2	+ 2.4
11,4	14,5	I	7	K=1,2H	1	—	5.7	29.0	27.0	21.0	+ 0.1
11,7	16,2	I	11	K=1,2H	4	F.	5.8	32.4	26.9	17.6	- 0.5
11,9	18,0	I	8	K=H	2	F.	6.0	36.0	26.7	14.0	- 0.9
11,8	18,6	I	8	K=1,5H	2	—	5.9	37.2	26.8	12.8	- 1.1
11,4	18,8	III	2	K=H	1	—	5.7	37.6	27.0	12.4	- 1.2
10,4	15,0	I	11	K=1,2H	4	F.	5.2	30.0	28.5	20.0	- 0
? 10,6	18,0	III	2	K=H	2	—	5.3	36.0	27.4	14.0	- 1.1
10,6	23,3	III	2	K=H	1	—	5.3	46.6	27.4	3.4	- 2.9
9,1	14,9	I	5	K=H	1	—	4.6	29.8	28.1	20.2	+ 0
9,4	15,3	I?	10	K=1,8H	4	F.	4.7	30.6	28.0	19.4	- 0.1
9,8	17,8	I	7	K=H	1	—	4.9	35.6	27.8	14.4	- 1.1
9,2	18,9	I	5	K=1,8H	1	—	4.6	37.8	28.1	12.2	- 1.3
9,2	22,2	I	6	K=1,2H?	2	F?	4.6	44.4	28.1	5.6	- 2.5
? 8,6	5,3	I	5	?	3	neb.	4.3	10.6	28.4	39.4	+ 3.6
? 7,5	15,0	III	3	K=1,2H	3	F, neb. Bright?	3.8	30.0	28.9	20.0	- 0
7,0	18,2	I	6	K=1,2H	1	—	3.5	36.4	29.2	13.6	- 1.2
? 7,6	18,3	III	2	K=H	1	neb.	3.8	36.6	28.9	13.4	- 1.2
6,1	19,2	I	8	K=1,2H	3	F.	3.0	38.4	29.7	11.6	- 1.7

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rec.	No	R.A.		Dec.		Mag.	H.	V.	H'	
0.5	~~2358~~	~~12~~	~~24.1~~	~~+~~	~~26~~	~~34~~	~~7.2~~	50.7	32.7	50.2
0.1	2354	12	21.7	+	26°	43	6.0	50.5	32.7	50.4
0.1	2353	12	21.5	+	26	41	7.2	50.5	32.7	50.4
0	2352	12	20.4	+	26	42	6.5	50.4	32.7	50.4
0.5	2345	12	17.2	+	26	23	6.3	49.6	32.8	50.1
0.5	2343	12	16.8	+	26	38	7.0	49.4	32.6	49.9
0.7	2337	12	15.2	+	26	39	5.0	49.4	32.7	50.1
1.3	2323	12	10.5	+	26	23	8.2	48.9	32.7	50.2
	2316	12	4.5	+	26	40	5.7	48.3	32.7	50.6
2.3	~~2314~~	~~12~~	~~3.7~~	~~+~~	~~26~~	~~49~~	~~8.8~~	~~47.5~~	~~32.8~~	~~49.8~~
2.4	2383	12	36.2	+	26	55	6.8	52.0	32.7	49.6
0.1	2138	12	21.4	+	27	2	6.5	50.4	32.7	50.3
0.5	2344	12	17.0	+	26	54	5.3	49.4	32.7	49.9
0.9	2329	12	13.0	+	26	49	6.3	49.0	32.8	49.9
1.1	2326	12	11.7	+	26	49	6.6	48.9	32.7	50.0
1.2	2324	12	11.4	+	27	0	7.3	49.0	32.7	50.2
0	2134	12	19.7	+	27	38	5.2	49.7	32.8	49.7
1.1	2114	12	13.0	+	27	25	5.0	49.0	32.7	50.1
	2100	12	1.2	+	27	18	6.8	47.8	32.6	50.7
2.9	~~2101~~	~~12~~	~~1.9~~	~~+~~	~~27~~	~~33~~	~~9.5~~	~~48.5~~	~~32.7~~	~~49.8~~
	~~2135~~		~~20.6~~	~~+~~	~~27~~	~~51~~	~~8.3~~	~~49.8~~		
0	~~2122~~	~~12~~	~~22.6~~	~~+~~	~~28~~	~~23~~	~~9.2~~	~~49.8~~	~~32.4~~	~~49.8~~
0.1	2115	12	19.2	+	28	5	5.1	49.8	32.8	49.9
1.1	2115	12	13.4	+	27	52	6.0	49.0	32.8	50.1
1.3	2100	12	10.9	+	28	7	7.5	48.8	32.7	50.1
2.5	2084	12	3.4	+	28	6	5.9	47.8	32.7	50.3
	2153	12	42.3	+	28	20	6.2	52.9	32.6	49.3
3.6	~~2265~~	~~12~~	~~43.1~~	~~+~~	~~28~~	~~17~~	~~8.7~~			
	2288	12	19.7	+	29	5	4.7	49.7	32.9	49.7
0	~~2116~~	~~12~~	~~20.3~~	~~+~~	~~28~~	~~55~~	~~7.8~~	~~50.3~~	~~32.7~~	~~50.3~~
1.2	2280	12	12.6	+	29	16	7.0	49.0	32.8	50.2
1.2	~~2213~~	~~12~~	~~13.1~~	~~+~~	~~28~~	~~52~~	~~7.9~~	~~49.7~~	~~32.7~~	~~50.9~~
	2245	12	10.2	+	29	45	5.8	48.6	32.8	50.3
1.7	~~2274~~	~~12~~	~~10.0~~	~~+~~	~~29~~	~~32~~	~~8.3~~			

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Plate 1349.

r	H	Type	No. Lines	K	Focus	Other Lines	V.	H.	V.	H. Correc.	
6.7	21.6	I?	6	K=H	1	F	3.8	43.2	~~28.7~~ 29.3	6.8	-2.5
? 5.4	13.1	II	2	K=H	1°	pure	2.7	26.2	30.0	23.8	+0.7
3.4	18.7	I	7	K=1.8 H	2	—	1.7	37.4	31.0	12.6	-1.5
2.9	9.1	I	5	K=H	1	—	1.4	18.2	31.3	31.8	+2.4
3.1	21.0	I	4	N	1	—	1.6	42.0	31.1	8.0	-2.5

Plate 1379

22.5	10.9	III	2	K=H	1	—	11.2	21.8	6.5	47.8	
22.0	11.8	III	2	K=H	1	—	11.0	23.6	6.7	46.0	
21.1	8.7	I	8	N	3	F	10.5	17.4	7.2	52.2	
21.2	15.9	I	7	K=H	1	—	10.6	31.8	7.1	37.8	
20.8	6.6	I	5	N	1	F?	10.4	13.2	7.3	56.4	
20.3	8.3	III	3	K=H	1	F	10.2	16.6	7.5	53.0	
? 20.6	17.0	III	3	K=H	2	F, pure	10.3	24.0	7.4	45.6	
20.8	17.9	III	3	K=1.2 H	3	F	10.4	35.8	7.3	33.8	
19.3	16.4	I	7	K=1.2 H	2	F	9.6	32.8	8.1	36.8	
18.2	20.0	I?	5	K=H	1	F	9.1	40.0	8.6	29.6	
16.0	2.5	I	7	K=H	1	F	8.0	17.0	9.7	52.6	
16.8	16.7	III?	2	K=H	2	—	8.4	33.4	9.3	36.2	
16.6	17.6	I?	12	K=H	5	F, faint?	8.3	35.2	9.4	34.4	
16.3	21.3	III	2	K=H	1	—	8.2	42.6	9.5	27.0	
17.0	22.5	II	2	K=H	1	—	8.5	45.0	9.2	24.6	
15.7	9.4	I	5	K=H	1	—	7.8	18.8	9.9	50.8	
? 15.6	10.4	III	2	K=H	2	pure,	7.8	20.8	9.9	48.8	
15.4	19.0	I	7	N	2	—	7.7	38.0	0.0	31.6	
14.4	14.6	II	2	K=H	1	—	7.2	29.2	0.5	40.4	
14.3	17.3	III?	2	K=H	1	—	7.2	34.6	0.5	35.0	
13.6	10.8	III	2	K=H	1	—	6.8	21.6	0.9	48.0	

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No.	R.A.		Dec.		Mag.	H.	V.	H'
2265	12	4.6	+ 29	21	6.7	47.8	32.8	50.3
2281	12	24.6	+ 30	7	9.3	50.8	32.8	50.1
~~2286~~	~~12~~	~~25.7~~	~~+ 30~~	~~13~~	~~9.4~~			
2350	12	11.2	+ 31	4	6.5	48.6	32.7	50.1
2397	12	34.0	+ 31	14	6.8	52.2	32.6	49.8
2340	12	5.9	+ 31	16	7.4	47.9	32.7	50.4
3375	12	47.9	- 3	43	7.3	69.7	17.5	
3373	12	46.2	- 3	26	6.7	69.8	17.6	
3384	12	52.2	- 3	2	6.2	69.6	17.5	
3349	12	37.8	- 3	6	8.9	69.6	17.4	
~~3557~~	~~12~~	~~33.7~~	~~- 2~~	~~37~~	~~9.6~~			
3622	12	56.4	- 2	53	6.7	69.6	17.5	
3609	12	53.1	- 2	35	6.3	69.7	17.6	
3593	12	45.8	- 2	46	6.2	69.8	17.5	
Uranus ~~3557~~	~~12~~	~~33.7~~	~~- 2~~	~~37~~	~~9.6~~			
3567	12	36.7	- 2	3	6.8	69.5	17.6	
2699	12	29.7	- 1	32	7.5	69.7	17.6	
2641	12	52.7	- 0	24	8.2	69.7	17.6	
2603	12	36.2	- 0	47	7.7	69.6	17.6	
2601	12	34.3	- 0	40	2.8	69.5	17.6	
2590	12	27.0	- 0	38	7.2	69.6	17.6	
2587	12	24.7	- 0	58	7.7	69.7	17.5	
2637	12	57.0	- 0	16	8.5	69.8	17.5	
2632	12	49.0	- 0	10	7.7	69.8	17.6	
~~2595~~	~~12~~	~~31.5~~	~~- 0~~	~~2~~	~~8.0~~	~~69.5~~	~~17.7~~	
2983	12	40.7	+ 0	26	8.2	69.9	7.6	
2972	12	34.9	+ 0	~~29~~ 30	8.3	69.5	7.7	
3002	12	48.2	+ 0	51	7.3	69.8	7.6	

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Plate 137.

r	H	Type	No. lines	K	Focus	Other Lines	V.	H.	V.	H.
13,5	12,7	III	3	K=H	1	F.	6.8	25.4	0.9	44.2
13,1	6,2	III	2	K=H	1	—	6.6	12.4	1.1	57.2
12,6	17,5	III	2	K=H	1	—	6.3	35.0	1.4	34.6
11,3	13,7	III	2	K=H	1	—	5.6	27.4	2.1	42.2
? 10,9	9,9	III	2	K=H	2	[illegible]	5.4	19.8	2.3	49.8
11,0	17,2	II	V	K=1,5H	1	—	5.5	34.4	2.2	35.2
10,1	19,2	III	3	K=H	2	F.	5.0	38.4	2.7	31.2
11,0	22,8	II	5	K=H	1	F.?	5.5	45.6	2.2	24.0
? 9,1	20,8	III	2	K=H	1	—	4.6	41.6	3.1	28.0
8,8	15,3	II	4	K=H	1	—	4.4	30.6	3.3	39.0
8,5	16,7	III	1	H.	1	—	4.2	33.4	3.5	36.2
8,6	17,1	III	2	K=H	1	—	4.3	34.2	3.4	35.4
? 7,1	10,7	III	3	K=1,2H	4	F. [illegible]	3.6	21.4	4.1	48.2
7,7	10,9	III	2	K=H	1	—	3.8	21.8	3.9	47.8
7,8	12,7	III	2	K=H	2	[illegible]	3.9	25.4	3.8	44.2
7,6	16,4	II	2	K=H	1	—	3.8	32.8	3.9	36.8
7,4	19,4	II	8	H	3	F.	3.7	38.8	4.0	30.8
6,7	13,1	III	2	K=H	1	—	3.4	26.2	4.3	43.4
6,9	14,5	II	4	K=H	1	—	3.4	29.0	4.3	40.6
6,7	14,6	III	3	K=H	1	F.	3.4	29.2	4.3	40.4
6,0	18,0	II?	5	K=H	1	—	3.0	36.0	4.7	33.6
5,0	8,0	II	5	H	1	—	2.5	16.0	5.2	53.6
5,3	19,5	II	7	K=2H	2	F.?	2.6	39.0	5.1	30.6
4,0	23,7	II	6	K=H	1	F.	2.0	47.4	5.7	22.2
5,0	24,3	II	6	H	2	F.	2.5	48.6	5.2	21.0
3,5	9,1	III	2	K=H	1	—	1.8	18.2	3.9	51.4
3,1	10,9	II?	4	K=H	1	—	1.6	21.8	6.1	47.8
3,6	22,7	II	4	K=H	1	F.	1.8	45.4	5.9	24.2
3,5	13,8	III	3	K=H	1	F.	1.8	27.6	5.9	42.0
2,0	15,0	II	8	H	3	F.	1.0	30.0	6.7	39.6

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No.	R.A.		Dec.		Mag.	H.	V.
2993	12	44.5	+0	52	8.0	69.9	7.7
2786	12	57.4	+1	4	9.3	69.8	7.7
~~2784~~	~~12~~	~~57.1~~	~~+1~~	~~1~~	~~9.2~~		
2739	12	34.7	+1	18	8.0	69.7	7.6
2585	12	42.4	+2	1	8.2	69.8	7.6
2604	12	50.1	+2	13	7.7	69.9	7.6
~~2601~~	~~12~~	~~49.7~~	~~+2~~	~~8~~	~~7.5~~		
2569	12	35.1	+2	8	8.3	69.5	7.6
2560	12	31.0	+2	40	6.0	69.4	7.7
2552	12	23.8	+2	8	7.9	69.4	7.6
~~2551~~	~~12~~	~~23.8~~	~~+2~~	~~9~~	~~9.1~~		
2670	12	27.9	+3	3	7.8	69.5	7.6
2695	12	38.8	+3	15	7.8	69.4	7.6
2685	12	36.1	+3	25	8.3	69.5	7.6
2681	12	35.3	+3	23	8.5	69.5	7.7
2669	12	48.3	+4	11	3.0	69.7	7.8
2714	12	47.8	+3	50	8.0	69.6	7.6
2703	12	44.2	+3	37	7.2	69.6	7.7
2687	12	36.6	+3	51	8.5	69.4	7.6
~~2689~~	~~12~~	~~36.7~~	~~+3~~	~~46~~	~~9.4~~		
2631	12	30.7	+4	5	6.5	69.5	7.8
2661	12	43.5	+4	18	8.5	69.7	7.7
2654	12	40.7	+4	16	8.3	69.7	7.6
2653	12	40.5	+4	22	6.7	69.7	7.8
2637	12	33.5	+4	40	7.8	69.5	7.7
2702	12	53.8	+5	8	7.3	69.8	7.6
2654	12	30.5	+5	5	7.3	69.5	7.7
2633	12	22.1	+5	38	7.5	69.5	7.6
2631	12	20.9	+5	12	7.3	69.5	7.7
2699	12	51.6	+5	53	8.2	69.8	7.7
2673	12	47.9	+6	6	8.0	69.7	7.7
2638	12	24.0	+5	52	8.0	69.4	7.7
2682	12	42.1	+5	58	8.2	69.7	7.8
2660	12	39.7	+6	46	6.7	69.7	7.8

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Plate 1299.

				No. lines		Focus	Other lines.	V.	M.	V.	M.
11 15	22.4	12.7	I	3	N	1	—	11.2	25.4	6.5	43.8
?	19.5	23.8	II	3	K=H?	2	F. pecc	9.8	47.6	7.9	21.6
?	18.4	23.7	II	2	K=H	1	pecc.	9.2	47.4	8.5	21.8
	17.9	7.6	II	2	K=H	1	—	8.0	15.2	9.7	54.0
?	16.4	18.4	III	2	K=1.2H	2	bright pecc.	8.2	36.8	9.5	32.4
	16.4	22.4	I	8	N	3	F.	8.2	44.8	9.5	24.4
	16.4	23.8	I	4	K=H	1	—	8.2	47.6	9.5	21.6
	14.6	17.2	III	2	K=H	1	—	7.3	34.4	0.4	34.8
	13.8	12.4	III	2	K=H	1	—	6.9	24.8	0.8	44.4
	10.6	15.2	I?	6	K=H	2	—	5.3	30.4	2.4	38.8
	10.4	22.1	II	1	N	1	—	5.2	44.2	2.5	25.0
	9.2	12.3	I	6	?	2	—	4.6	24.6	3.1	44.6
	7.3	8.6	I	4	K=H	1	—	3.6	17.2	4.1	52.8
	7.3	12.7	I	3	N	1	—	3.6	25.4	4.1	43.8
	5.6	10.0	II	2	K=H	1	—	2.8	20.0	4.9	49.2
	5.5	13.2	I	2	K=H	1	—	2.8	26.4	4.9	42.8
	6.0	19.2	III	2	K=H	1	—	2.5	38.4	5.2	30.8

Plate 1295.

	21.5	7.5	I	4	N	1	—	10.9	15.0	6.7	75.6
	17.7	15.0	I	9	K=1.2H?	3	—	7.8	30.0	9.8	60.6
	9.3	8.2	I	2	N	1	—	4.6	16.4	3.0	74.2
	9.0	22.8	I	5	N	2	—	4.5	45.6	3.1	45.0
	7.4	16.8	III?	2	K=H	1	—	3.7	33.6	3.9	57.0
	7.2	19.0	I	3	N	1	—	3.6	38.0	4.0	52.6
	6.4	20.5	III	1	N	1	F.	2.7	41.0	4.9	49.6
	4.8	12.8	III	1	N	1	—	2.4	25.6	5.2	65.0
	2.8	15.5	III	1	N	1	—	1.4	31.0	6.2	59.6

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No.	R.A.	Dec.	Mag.	η	$\sqrt{\eta}$
2794	9 43.9	− 3 34	6.1	69.3	17.6
~~2793~~	~~9 43.8~~	~~− 3 30~~	~~9.0~~	—	—
2901	9 21.8	− 2 7	5.0	69.4	17.7
2268	9 22.1	− 1 34	6.7	69.5	17.6
2281	9 54.2	− 0 19	7.5	69.4	17.7
2331	9 32.5	− 0 29	4.0	69.3	17.7
2211	9 24.5	− 0 32	4.8	69.3	17.7
2201	9 21.7	− 0 37	6.7	69.3	17.6
2546	9 35.0	+ 0 22	7.2	69.4	7.7
2573	9 44.8	+ 0 43	6.0	69.6	7.7
~~2570~~	~~9 44.3~~	~~+ 0 37~~	~~9.3~~	—	—
2246	9 38.9	+ 2 27	5.6	69.3	7.7
2217	9 25.2	+ 2 31	6.2	69.4	7.7
2280	9 44.7	+ 3 8	6.0	69.3	7.7
~~2275~~	~~9 44.4~~	~~+ 3 8~~	~~9.1~~	—	—
2276	9 52.2	+ 4 4	6.5	69.4	7.7
2258	9 44.0	+ 4 3	7.7	69.4	7.6
~~2257~~	~~9 43.7~~	~~+ 4 6~~	~~9.5~~	—	—
2269	9 49.3	+ 4 56	7.5	69.3	7.7
2240	9 43.0	+ 5 1	6.7	69.4	7.8
~~2240~~	~~9 43.0~~	~~+ 5 1~~	~~8.5~~	—	—
2207	9 30.9	+ 5 18	5.0	69.3	7.8
2911	10 16.1	− 3 21	6.3	31.1	17.5
~~2910~~	~~10 15.6~~	~~− 3 30~~	~~9.6~~	—	—
~~2296~~	~~10 0.5~~	~~− 0 42~~	~~9.5~~		
2352	10 13.5	+ 3 0	6.5	29.9	7.6
2280	9 44.7	+ 3 8	6.0	90.3	7.6
2311	9 56.6	+ 3 54	6.5	90.2	7.6
2276	9 52.2	+ 4 4	6.5	90.2	7.7
2269	9 49.3	+ 4 56	7.5	90.3	7.6
2301	10 5.3	+ 5 20	6.5	30.9	7.7
2259	9 59.2	+ 6 20	6.9	90.2	7.7

$\sqrt{\eta}$ 14.7 ? ?

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Plate 1300.

V	H	Type	No. lines	K	Focus	Other lines.	V.	H.	V.	H
22.0	16.9	I	3	N	1	—	11.0	33.8	6.7	16.0
21.3	14.3	I	4	K=√H	1	—	10.6	28.6	7.1	21.2
19.4	13.9	I	7	N	2	F?	9.7	27.8	8.0	22.0
15.3	13.6	I	8	N	3	F	7.6	27.2	0.1	22.6
9.4	18.1	II	2	K=H	1	—	4.7	36.2	3.0	13.6
8.2	15.7	I	4	K=H	1	—	4.1	31.4	3.6	18.4
6.2	15.6	I	4	K=H?	1	—	3.1	31.2	4.6	18.6

Plate 1348

?	22.1	21.3	II	2	K=H	2	green	11.0	42.6	1.6	48.6
	21.4	23.1	I	5	K=H?	2	—	10.7	46.2	1.9	45.0
	20.8	7.4	III	2	K=H	2	—	10.4	14.8	2.2	76.4
	20.3	9.9	III	2	K=H	1	—	10.2	19.8	2.4	71.4
	19.1	12.5	I?	5	K=H	1	—	9.6	25.0	3.0	66.2
	19.9	15.7	III	2	K=H	2	—	10.0	31.4	2.6	59.8
	17.6	6.0	III	2	K=H	2	—	8.8	12.0	3.8	79.2
?	17.9	5.5	III?	2	K=1,2H?	3	bright green	9.0	11.0	3.6	80.2
	17.0	16.1	I	6	K=√H	1	F	8.5	32.2	4.1	59.0
	16.6	15.1	I	4	K=H	1	—	8.3	30.2	4.3	61.0
	16.5	17.2	I	5	K=H	1	—	8.2	34.4	4.4	56.8
?	16.6	18.9	III	2	K=H	3	bright green.	8.3	37.8	4.3	53.4
	16.5	23.7	I	5	K=H	1	—	8.2	47.4	4.4	43.8
	15.9	6.6	I	6	K=H	2	—	8.0	13.2	4.6	78.0
	14.8	15.1	I	2	N	1	—	7.4	30.2	5.2	61.0
?	13.9	9.0	II	2	K=H	1	green.	7.0	18.0	5.6	73.2
	13.1	21.0	I	3	N	1	—	6.6	42.0	6.0	49.2
	11.8	9.0	I	11	N	5	F	5.9	18.0	6.7	73.2
	11.8	12.2	III	1	N	1	—	5.9	24.4	6.7	66.8

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No.		R.A.	Dec.		Mag.	H.	V.
2911	10	16.1	− 3	21	6.3	49.9	17.6
~~2929~~	~~10~~	~~21.4~~	~~− 3~~	~~0~~	~~6.7~~	50.0	17.6
~~3150~~	~~10~~	~~21.3~~	~~− 2~~	~~47~~	~~10.0~~		
3155	10	22.1	− 2	0	6.0	49.9	17.7
2663	10	22.9	+ 0	6	5.3	50.1	~~8.2~~
2352	10	13.5	+ 3	0	6.5	49.7	7.7
2365	10	18.5	+ 3	39	7.5	49.9	7.7
2328	10	18.6	+ 4	40	7.0	49.8	7.6
2501	10	48.2	+ 1	30	6.2	90.8	12.5
2495	10	44.8	+ 1	47	6.9	91.0	12.5
2418	11	16.6	+ 2	12	6.0	31.4	12.6
2411	11	11.5	+ 2	28	6.5	31.3	12.7
2475	11	6.4	+ 3	5	7.2	31.4	12.6
2387	10	59.5	+ 2	45	6.0	90.9	12.8
2502	11	19.4	+ 3	48	7.5	31.4	12.6
2504	11	20.5	+ 3	40	5.0	31.5	12.7
~~2291~~	~~10~~	~~59.0~~	~~+ 4~~	~~11~~	~~8.1~~	—	—
2423	11	0.8	+ 4	19	7.7	31.0	12.6
2415	10	56.5	+ 4	26	7.5	90.9	12.6
~~2416~~	~~10~~	~~56.6~~	~~+ 4~~	~~34~~	~~8.5~~	—	—
2407	10	53.1	+ 4	24	4.5	90.9	12.7
2388	10	43.5	+ 4	22	7.3	90.9	12.6
2463	11	18.4	+ 4	39	7.0	31.6	12.6
2450	11	0.8	+ 5	15	8.0	31.0	12.6
2484	11	13.6	+ 5	40	8.2	31.6	12.6
2370	10	49.0	+ 6	2	7.8	91.0	12.6
2437	11	13.7	+ 6	49	4.3	31.7	12.7
2422	11	7.1	+ 6	47	8.0	31.5	12.7
~~2420~~	~~11~~	~~6.8~~	~~+ 6~~	~~46~~	~~8.0~~	31.2	12.7

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Plate 1348.

V	H	Type	No. Lines	K	Focus	Other Lines	V.	M.	V.	M.
11.7	18.8	I	10	K=1.2H	4	F.	5.8	37.6	6.8	53.6
11.4	21.2	II	3	K=H	1	F.	5.7	42.4	6.9	48.8
12.0	21.8	II	1	N	1	—	6.0	43.6	6.6	47.6
10.6	7.9	II	2	K=H	1	—	5.3	15.8	7.3	73.4
? 10.5	8.8	II	2	K=H	1	prec.	5.2	17.6	7.4	73.6
? 9.5	16.2	II	2	K=H	1	prec.	4.8	32.4	7.8	58.8
? 9.2	16.7	II	6	K=H	4	F. prec.	4.6	33.4	8.0	57.8
7.8	12.5	III	2	K=H	2	—	3.9	25.0	8.7	66.2
5.5	8.6	I	4	N	1	—	2.8	17.2	9.8	74.0
5.6	17.9	I	5	N	1	—	2.8	35.8	9.8	55.4
4.4	10.0	I	4	N	1	—	2.2	20.0	10.4	71.2
4.0	19.4	I	4	N	1	—	2.0	38.8	10.6	52.4
? 3.5	15.7	II	2	K=H	1	prec.	1.8	31.4	10.8	59.8
? 2.8	7.7	II	3	K=1.2H?	4	F. prec.	1.4	15.4	11.2	75.8

Plate 1296.

22.2	12.1	III	2	K=H	1	—	11.1	24.2	6.6	27.0
21.4	21.0	I	4	K=H	1	—	10.7	42.0	7.0	9.2
20.6	8.1	I	4	N	1	—	10.3	16.2	7.4	33.0
21.0	20.9	I	7	K=1.2H	3	—	10.6	41.8	7.1	9.4
19.7	14.4	III	1	N	1	—	9.8	28.8	7.9	22.4
18.6	10.4	III	1	N	1	—	9.3	20.8	8.4	30.4
18.2	16.8	I	5	K=H	1	—	9.1	33.6	8.6	17.6
17.2	13.5	II	4	N	1	—	8.6	27.0	9.1	24.2
17.1	15.3	III	3	K=H	1	F.	8.6	30.6	9.1	20.6
17.1	19.5	III	3	K=H	1	F.	8.6	39.0	9.1	12.2
? 15.4	11.1	III	2	K=H	3	bright prec.	7.7	22.2	0.0	29.0
15.5	15.2	II?	4	N	1	—	7.8	30.4	9.9	20.8

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No.	R.A.		Dec.		Mag.	H.	V.	
2384	10	53.2	+ 6	52	5.2	90.8	12.7	
2369	10	48.5	+ 6	57	6.5	90.9	12.6	
2368	10	47.2	+ 6	37	8.0	90.8	12.6	X
2443	11	15.8	+ 7	23	7.5	31.6	12.7	
~~2441~~	~~11~~	~~15.3~~	~~+ 7~~	~~20~~	~~9.2~~			
2440	11	14.0	+ 7	25	7.5	31.6	12.6	
~~2438~~	~~11~~	~~13.1~~	~~+ 7~~	~~34~~	~~9.3~~			
2412	10	58.6	+ 7	55	8.3	91.0	12.7	?
2455	10	57.6	+ 8	8	5.2	91.0	12.7	
2476	11	6.5	+ 8	50	7.0	31.5	12.7	
~~2475~~	~~11~~	~~6.1~~	~~+ 8~~	~~44~~	~~8.5~~			
2482	11	14.3	+ 9	57	7.4	31.5	12.7	
2441	10	55.0	+ 9	57	7.5	90.8	12.7	
~~2442~~	~~10~~	~~55.4~~	~~+ 9~~	~~57~~	~~7.5~~			
~~2274~~	~~11~~	~~11.6~~	~~+ 10~~	32	~~8.5~~	~~31.6~~	~~12.7~~	?
2230	10	52.0	+ 10	42	7.5	90.8	12.7	
2250	10	59.6	+ 10	59	7.3	91.0	12.8	?
~~2251~~	~~10~~	~~59.8~~	~~+ 10~~	~~60~~	~~9.2~~	~~90.8~~		
2348	11	16.4	+ 11	19	4.1	31.8	12.7	

-3.4	3144	11	27.6	- 3	33	6.5	51.8	17.5	?
	3313	11	8.9	- 2	38	8.7	50.9	17.7	
-3.0	~~3086~~	~~11~~	~~9.4~~	~~- 3~~	~~9~~	~~8.5~~			?
-2.6	3399	11	35.4	- 2	44	7.2	51.6	17.6	
-2.9	3315	11	9.3	- 2	51	4.9	51.1	17.8	
-2.1	3360	11	22.9	- 2	12	5.0	51.7	17.6	
-1.6	2546	11	31.0	- 1	38	6.7	51.8	17.7	?
-1.4	2521	11	17.6	- 1	24	7.2	51.2	17.7	
-0.9	2447	11	24.6	- 0	59	7.7	51.6	17.6	
-0.9	2442	11	20.5	- 0	54	7.1	51.1	17.7	
-0.9	2428	11	12.0	- 0	52	7.0	51.0	17.7	?
-0.0	2458	11	29.5	- 0	2	4.7	51.7	17.7	
-0.1	2441	11	20.6	- 0	7	7.7	51.0	17.7	?

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Plate 1296.

V	H	Type	No. Lines	K	Focus	Other Lines	V.	H.	V.	H.
13,4	7,8	I	3	N	1	—	6.7	15.6	1.0	35.6
13,5	17,6	III	1	N	1	—	6.8	35.2	0.9	16.0
13.9	22,3	I	7	N	3	—	7.0	44.6	0.7	6.6
11.9	9,3	I	4	K=H	1	—	6.0	18.6	1.7	32.6
11,8	15,5	III	2	K=H	1	—	5.9	31.0	1.8	20.2
11,0	17,2	III	2	K=H	2	—	5.5	34.4	2.2	16.8
10,5	19,8	III	3	K=H	1	F	5.2	39.6	2.5	11.6
9,0	8,3	II	2	K=H	1	—	4.5	16.6	3.2	34.6
9,8	20,6	III	1	N	1	—	4.9	41.2	2.8	10.0
? 9.1	22.3	II	2	K=H	1	perc.	4.6	44.6	3.1	6.6
8,2	15,3	III	2	K=H	2	—	4.1	30.6	3.6	20.6
7,8	12,3	II	2	K=H	2	perc.	3.9	24.6	3.8	26.6
7,8	13,8	II	2	K=H	1	—	3.9	27.6	3.8	23.6
7,9	15,8	II	2	K=H	1	—	4.0	31.6	3.7	~~20.6~~ 19.6
7,2	16,4	I	7	K=√H	1	—	3.6	32.8	4.1	18.4
6,2	6,3	I	5	K=H	1	—	3.1	12.6	4.6	38.6
4,3	8,4	III	2	K=H	1	—	2.2	16.8	3.5	34.4
4.0	18,7	III	2	K=H	1	—	2.0	37.4	3.7	13.8
1,9	18,6	I	2	N	4	F	1.0	37.2	6.7	14.0

Plate 1306.

							V.	H.	V.	H. Correc.
22.2	13.4	II?	2	K=H	2	—	11.1	26.8	21.4	64.2 + 0.5
20,3	16,9	I	8	K=√H	3	F	10.2	33.8	22.3	57.2 - 0.5
19,2	12,9	I	6	N	1	F	9.6	25.8	22.9	65.2 + 0.6
19,1	18,0	II	3	K=H	1	F	9.6	36.0	22.9	55.0 - 0.7
18,8	11,0	I	5	K=H	1	—	9.4	22.0	23.1	69.0 + 1.1
18,2	13,7	I	6	K=H	1	—	9.1	27.4	23.4	63.6 + 0.5
? 18,0	14,4	II	2	K=H	1	perc.	9.0	28.8	23.5	62.2 + 0.4

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No.	R.A.		Dec.		Mag.	H.	V.
2826	11	35.9	+ 0	59	7.7	51.5	7.7
2782	11	15.9	+ 0	55	6.2	51.1	7.7
2761	11	6.4	+ 0	44	5.3	51.0	7.7
2597	11	32.0	+ 1	45	7.3	51.6	7.8
2566	11	20.1	+ 1	45	7.7	51.1	7.7
2418	11	16.6	+ 2	12	6.0	51.4	7.7
2411	11	11.5	+ 2	27	6.5	51.1	7.7
~~2412~~	~~11~~	~~11.7~~	~~+ 2~~	~~28~~	~~9.0~~		
2539	11	35.0	+ 3	10	7.5	51.6	7.7
~~2536~~	~~11~~	~~34.7~~	~~+ 3~~	~~15~~	~~9.5~~		
2409	11	9.8	+ 2	49	5.5	51.0	7.7
2475	11	6.4	+ 3	4	7.2	51.0	7.8
2504	11	20.5	+ 3	40	5.0	51.1	7.8
2521	11	27.0	+ 3	53	6.2	51.6	7.8
2513	11	23.9	+ 3	52	8.1	51.5	7.8
2502	11	19.4	+ 3	48	7.5	51.0	7.8
~~2505~~	~~11~~	~~20.3~~	~~+ 3~~	~~37~~	~~8.2~~		
2461	11	18.2	+ 4	6	7.3	51.0	7.6
2526	11	39.3	+ 4	16	8.2	51.9	7.4
~~2525~~	~~11~~	~~38.8~~	~~+ 4~~	~~27~~	~~9.5~~		
2530	11	34.7	+ 5	33	7.7	51.5	7.8
~~2528~~	~~11~~	~~34.2~~	~~+ 5~~	~~24~~	~~8.5~~		
2484	11	13.5	+ 5	40	8.2	50.9	7.7
2437	11	13.7	+ 6	49	4.3	50.9	7.8

Correc.

+ 0.5	2398	12	4.8	+ 21	22	6.0	31.6	32.5
- 0.5	2437	11	56.8	+ 22	15	6.0	90.6	32.4
+ 0.6	2457	12	5.9	+ 22	37	7.5	31.7	32.4
- 0.7	2430	11	54.3	+ 22	54	6.7	90.3	32.5
+ 1.1	2441	12	10.0	+ 23	0	7.7	32.0	32.4
+ 0.5	2429	12	4.0	+ 23	24	7.5	31.4	32.5
+ 0	2423	12	2.6	+ 23	28	7.3	31.4	32.5

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Plate 1306.

	V	H	Type	No. Lines	K	Focus	Other Lines.		V.	H.	V.	H.	Correc.
	17.4	10.1	II	7	K=1.2H	2	—		8.7	20.2	23.8	70.8	+ 1.2
	17.5	12.7	II	2	K=H	1	—		8.8	25.4	23.7	65.6	+ 0.6
	17.3	15.4	II	4	K=1.5H	1	—		8.6	30.8	23.9	60.2	- 0
	17.0	16.1	II	4	K	1	—		8.5	32.2	23.0	58.8	- 0.3
	17.8	20.1	II	5	K=H	1	—		8.9	40.2	23.6	50.8	- 1.3
	16.0	12.4	II	2	K=H	1	—		8.0	24.8	24.5	66.2	+ 0.7
	16.8	13.6	III	2	K=1.2H	1	—		8.4	27.2	24.1	63.8	+ 1.1
	15.5	7.4	III	2	K=H	1	—		7.8	14.8	24.7	76.2	+ 2.1
?	15.6	11.5	III	2	K=1.2H	3	bright pieces		7.8	23.0	24.7	68.0	+ 0.9
?	15.0	5.5	II	2	K=1.5H	3	pieces		7.5	11.0	25.0	80.0	+ 2.7
	13.9	8.9	II	6	N	3	—		7.0	17.8	25.5	73.2	+ 1.8
	13.4	9.2	II	4	N	1	—		6.7	18.4	25.8	72.6	+ 1.8
	13.3	9.4	III	1	N	1	—		6.6	18.8	25.9	72.2	+ 1.8
	13.2	10.2	II	5	K=H	1	—		6.6	20.4	25.9	70.6	+ 1.5
	12.2	7.8	II	6	K=H	2	—		6.1	15.6	26.4	75.4	+ 2.4
	12.2	10.9	II	3	N	1	—		6.1	21.8	26.4	69.2	+ 1.2
	11.5	5.8	II	7	N	4	F.		5.8	11.6	26.7	79.4	+ 3.0
	11.5	5.9	II	4	K=H	1	—		5.8	11.8	26.7	79.2	+ 3.0
	11.3	7.9	II	9	K=1.2H	4	F.		5.6	15.8	26.9	75.2	+ 2.4
	11.7	8.1	II	5	K=1.5H	1	—		5.8	16.2	26.7	74.8	+ 2.3
	11.8	8.8	II?	8	K=1.2H	4	F.		5.9	17.6	26.6	73.4	+ 2.1
	11.5	9.7	II	7	K=H	2	—		5.8	19.4	26.7	71.6	+ 1.7
	11.5	10.3	II	7	K=1.2H	2	—		5.8	20.6	26.7	70.4	+ 1.5
	11.1	10.5	III	2	K=H	1	—		5.6	21.0	26.9	70.0	+ 1.5
	11.9	11.6	III	2	K=H	1	—		6.0	23.2	26.5	67.8	+ 1.1
	11.8	13.5	III	2	K=H	2	bright pieces		5.9	27.0	26.6	64.0	+ 0.3
	10.9	6.0	II	5	N	2	—		5.4	12.0	27.1	79.0	+ 3.0
	10.2	9.7	III	3	K=H	2	F. bright pieces		5.1	19.4	27.4	71.6	+ 1.8

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No.	R.A.	Dec.	Mag.	H.	V.	H'	rec.
2448	12	12.0 + 23	50	6.3	32.2	32.5	31.0	.2
2433	12	6.4 + 23	42	8.0	31.8	32.5	31.2	0.6
2417	12	0.1 + 23	51	7.0	30.9	32.4	30.9	
2424	11	58.6 + 24	0	6.8	90.8	32.5	91.1	3
2407	11	49.8 + 23	27	7.8	90.0	32.3	91.3	3
2441	12	7.1 + 24	29	7.5	31.9	32.5	31.2	.7
2436	12	4.4 + 24	8	6.6	31.6	32.5	30.5	
2455	12	18.0 + 24	44	6.0	32.8	32.5	30.7	.1
2443	12	9.0 + 24	47	5.3	32.0	32.6	31.1	.9
~~2513~~	~~12~~	~~22.7 + 25~~	~~8~~	~~7.7~~	~~33.7~~	~~32.6~~	~~31.0~~	.7
2498	12	14.9 + 25	34	6.5	32.7	32.6	30.9	.8
2495	12	14.1 + 25	54	7.5	32.5	32.6	30.7	.8
2493	12	13.8 + 25	50	7.2	32.6	32.4	30.8	
~~2494~~	~~12~~	~~14.1 + 25~~	~~54~~	~~7.5~~				
2487	12	11.9 + 25	52	7.5	32.3	32.5	30.8	.5
2345	12	17.2 + 26	28	6.3	32.8	32.5	30.4	.4
2323	12	10.5 + 26	23	8.2	32.3	32.5	31.1	.2
2354	12	21.7 + 26	43	6.0	33.3	32.5	30.3	.0
2353	12	21.5 + 26	42	7.3	33.3	32.5	30.3	
~~2356~~	~~12~~	~~22.7 + 26~~	~~56~~	~~8.3~~	~~34.7~~	~~32.5~~	~~31.7~~	.0
2344	12	17.0 + 26	54	5.3	32.8	32.5	30.4	.4
2343	12	16.8 + 26	38	7.0	33.0	32.4	30.7	.3
2337	12	15.2 + 26	~~39~~ 40	5.0	32.8	32.5	30.7	.1
2329	12	13.0 + 26	49	6.3	32.4	32.6	30.7	.7
2326	12	11.7 + 26	49	6.6	32.3	32.6	30.8	1.5
2324	12	11.4 + 26	60	7.3	32.4	32.6	30.9	1.5
2321	12	8.8 + 26	34	7.1	32.0	32.6	30.9	1.1
2316	12	4.5 + 26	40	5.7	31.5	32.6	31.2	0.3
2354	12	21.7 + 26	43	6.0	33.7	32.1	30.7	3.0
2114	12	13.0 + 27	25	5.0	32.4	32.5	30.6	1.8

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Plate 1306.

	τ	H	Type	No. lines	K	Focus	Other lines.	V.	H.	V.	H.	Correc.
	10.5	12.4	III	2	K=H	1	—	5.2	24.8	27.3	66.2	+0.9
	10.5	15.0	III	3	K=H	1	F.	5.2	30.0	27.3	61.0	-0
	10.0	20.3	II?	6	K=H	1	—	5.0	40.6	27.5	50.4	-1.9
	9.8	6.7	I	9	K=.2H	4	F.	4.9	13.4	27.6	77.6	+2.8
	9.4	9.6	I	7	K=H	2	F.	4.7	19.2	27.8	71.8	+2.1
	9.0	14.0	I	10	K=.2H	3	F.	4.5	28.0	28.0	63.0	+0.5
	8.5	6.5	I	4	K=H	1	—	4.2	13.0	28.3	78.0	+3.3
	8.9	10.7	I	6	K=.5H	1	—	4.4	21.4	28.1	69.6	+1.5
?	7.2	10.1	III	2	K=H	2	pecu.	3.6	20.2	28.9	70.8	+1.9
?	6.9	6.8	III	2	K=3.0H?	3	bright pecu.	3.4	13.6	29.1	77.4	+3.3
	6.6	10.0	I	6	K=.2H	2	—	3.3	20.0	29.2	71.0	+2.1
?	6.5	13.5	II	4	K=H	2	pecu.	3.2	27.0	29.3	64.0	+0.6
	6.4	23.6	I	4	K=H	1	—	3.2	47.2	29.3	43.8	-3.5
	5.7	11.0	I	8	K=.2H	3	F.	2.8	22.0	29.7	69.0	+1.7
	5.6	23.6	I	6	K=H	1	—	2.8	47.2	29.7	43.8	-3.6
	3.0	10.6	I	7	K=.8H	2	—	1.5	21.2	31.0	69.8	+1.9
1	30	3.0	12.9	I	4	N	1	—	1.5	25.8	31.0	65.2	+0.9

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No.	R. A.	Dec.	Mag.	H.	V.	H'
2105	12 7	+27 18	7.3	31.8	32.5	30.9
2100	12 1.2	+27 18	6.8	31.2	32.5	31.2
~~2070~~	~~11 48.9~~	~~+27 29~~	~~6.8~~	89.5	32.5	91.4
~~2069~~	~~11 48.4~~	~~+27 44~~	~~9.4~~			30.3
2134	12 19.7	+27 38	5.2	33.1	32.5	~~3 8~~
2115	12 13.4	+27 52	6.0	32.6	32.6	30.5
2084	12 3.4	+28 6.0	5.9	31.4	32.6	30.9
2118	12 20.6	+28 13	8.2	33.6	32.4	30.3
~~2238~~	~~12 21.6~~	~~+28 6.0~~	~~8.2~~	~~34.6~~	~~32.3~~	~~31.3~~
2100	12 10.9	+28 7.0	7.5	32.3	32.5	30.8
2106	12 12.2	+28 58	6.5	32.4	32.6	30.5
2288	12 19.7	+29 5.0	4.7	33.3	32.5	30.0
2213	12 13.1	+28 52	7.9	33.1	32.2	31.0
2265	12 4.6	+29 21	6.7	31.6	32.6	31.0
2214	11 40.9	+29 14	6.8	88.2	32.4	91.7
2275	12 10.2	+29 45	5.8	32.2	32.7	30.5
2216	11 41.1	+29 36	6.8	88.3	32.4	91.9
2350	12 11.2	+31 4.0	6.5	32.4	32.6	30.5
2340	12 5.9	+31 ~~5.0~~ 6.2	7.4	31.7	32.6	30.8

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Plate 138 b.

	V	H	Type	No. Lines	K	Focus	Other Lines		V.	H.	V.	H.
945	22.1	15.1	I	9	N	3	F		11.0	30.2	6.8	39.7
	22.4	22.7	III	2	K=H	1	F?		11.2	45.4	6.6	24.3
	21.5	11.6	III	2	K=H	1	—		10.8	23.2	7.0	46.7
	21.5	13.6	III	3	K=H	1	F		10.8	27.2	7.0	42.7
	21.8	21.3	I	3	N	1	—		10.9	42.6	6.9	27.3
	21.1	21.4	III	3	K=H	1	F		10.6	42.8	7.2	27.1
	22.0	23.5	II	2	K=H	1	—		11.0	47.0	6.8	22.9
	20.1	7.1	III	2	K=H	1	—		10.0	14.2	7.8	55.7
	20.8	9.1	III	3	K=H	1	F		10.4	18.2	7.4	51.7
	20.1	10.4	III	2	K=H	1	—		10.0	20.8	7.8	49.1
	20.4	11.8	II?	3	K=H	1	F		10.2	23.6	7.6	46.3
	20.2	16.4	III	3	K=H	1	F		10.1	32.8	7.7	37.1
	20.4	17.6	I	9	N	4	F		10.2	35.2	7.6	34.7
	19.2	7.7	II	2	K=H	1	—		9.6	15.4	8.2	54.3
	19.9	8.0	II	3	K=H	1	F		10.0	16.0	7.8	53.9
	19.5	12.5	III	2	K=H	1	—		9.8	25.0	8.0	44.9
	19.1	13.2	III	2	K=H	1	—		9.6	26.4	8.2	43.3
	19.1	17.7	III	2	K=H	1	—		9.6	35.4	8.2	34.3
	19.0	21.0	II	3	K=H	1	F		9.5	42.0	8.3	27.9
	18.2	9.2	III	2	K=H	1	—		9.1	18.4	8.7	51.5
	18.2	17.8	III	2	K=H	1	F?		9.1	35.6	8.7	44.3
	18.8	15.8	I	9	K=1.2H	4	F		9.4	31.6	8.4	38.3
	18.9	16.7	III	3	K=H	1	F		9.4	33.4	8.4	36.5
	18.6	18.3	III	2	K=H	1	—		9.8	36.6	8.5	33.3
	18.6	21.3	III	2	K=H	2	—		9.3	42.6	8.5	27.3
	18.6	21.8	III	2	K=H	2	F?		9.3	43.6	8.4	26.3
	18.1	21.9	III	2	K=H	1	—		9.0	43.8	8.8	26.1
	18.8	22.9	III	3	K=H	2	F		9.4	45.8	8.4	24.1

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No.	R.A.		Dec.		Mag.	H.	V.	V
2660	12	39.7	+ 6	46	6.7	69.9	17.8	
2624	12	24.5	+ 6	31	8.0	69.9	17.7	
2671	12	47.0	+ 6	58	8.7	70.2	17.8	
2580	12	43.0	+ 7	10	8.0	70.2	17.8	
2630	12	27.2	+ 6	47	8.5	69.8	17.7	
2555	12	27.0	+ 7	12	8.3	69.8	17.8	
2620	12	22.8	+ 6	42	8.0	69.8	17.7	?
2604	12	55.7	+ 7	47	8.6	69.9	17.8	?
2600	12	52.0	+ 7	18	7.5	70.2	17.7	
2594	12	49.1	+ 7	41	8.7	69.9	17.6	?
2588	12	46.6	+ 7	32	8.2	70.2	17.7	
2571	12	37.0	+ 7	40	8.7	69.8	17.7	
2568	12	34.6	+ 7	36	6.0	69.8	17.8	
2672	12	54.8	+ 8	4	8.4	70.2	17.7	
2602	12	54.3	+ 7	48	8.4	70.3	17.8	
2654	12	45.2	+ 8	0	8.6	70.2	17.8	
~~2649~~	~~12~~	~~43.3~~	+ ~~8~~	~~19~~	~~9.5~~			?
~~2632~~	~~12~~	~~34.5~~	+ ~~8~~	~~9~~	~~9.0~~			?
2621	12	27.7	+ 8	14	8.2	69.7	17.7	?
2665	12	51.9	+ 8	42	8.2	70.3	17.8	
2652	12	44.6	+ 8	42	8.3	70.2	17.8	
2639	12	38.3	+ 8	28	6.0	69.9	17.9	
2636	12	36.5	+ 8	22	8.3	69.9	17.7	
2626	12	33.2	+ 8	30	8.5	69.8	17.8	
2619	12	27.1	+ 8	32	7.1	69.7	17.8	
2617	12	26.2	+ 8	28	7.1	69.8	17.8	
2616	12	26.1	+ 8	45	7.5	69.9	17.8	
2609	12	24.0	+ 8	24	6.5	69.8	17.8	

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	r	H	Type	No. Lines	K	Lines	Other Lines	V.	H.	V.	H.
?	17.5	10.2	II	4	K=H	2	F, pun.	8.8	20.4	9.0	49.5
	17.6	13.1	III	3	K=H	1	F	8.8	26.2	9.0	43.7
	17.8	13.4	II	2	K=H	1	—	8.9	26.8	8.9	43.1
	17.8	13.5	II	2	K=H	1	—	8.9	27.0	8.9	42.9
	17.0	14.8	II	3	K=H	1	F	8.5	29.6	9.3	40.3
?	17.9	17.5	II	3	K=H	2	F, pun.	9.0	35.0	8.8	34.9
	16.6	6.6	II	3	K=H	1	F	8.3	13.2	9.5	56.7
	16.8	8.3	I	3	N	1	—	8.4	16.6	9.4	53.3
	16.5	12.2	III	2	K=H	1	—	8.2	24.4	9.6	45.5
	16.3	13.4	II	2	K=H	1	—	8.2	26.8	9.6	43.1
	16.8	13.8	III	2	K=H	1	—	8.4	27.6	9.4	42.3
	16.0	15.1	III	3	K=H	2	F	8.0	30.2	9.8	39.7
	16.4	15.5	II	2	K=H	1	—	8.2	31.0	9.6	38.9
?	16.4	18.1	II	2	K=H	2	F, pun.	8.2	36.2	9.6	33.7
	16.9	18.5	III	2	K=H	1	—	8.4	37.0	9.4	32.9
	16.5	20.0	I	8	K=1.2H	3	F	8.2	40.0	9.6	29.9
	16.8	21.2	II	3	K=H	1	F	8.4	42.4	9.4	27.5
	16.9	21.6	II	2	K=H	1	—	8.4	43.2	9.4	26.7
	15.8	7.2	I	3	N	1	—	7.9	14.4	9.9	55.5
	15.0	6.5	III	2	K=H	1	—	7.5	13.0	10.3	56.9
	15.0	9.0	III	2	K=1.2H	2	—	7.5	18.0	10.3	51.9
	15.4	9.9	I	6	N	2	F?	7.7	19.8	10.1	50.1
	15.4	10.5	III	2	K=H	1	—	7.7	21.0	10.1	48.9
	15.4	14.0	III	2	K=H	1	—	7.7	28.0	10.1	41.9
	15.8	14.6	II	2	K=H	2	pun.	7.9	29.2	9.9	40.7
?	15.5	15.4	II	3	K=H	2	pun.	7.8	30.8	10.0	39.1
	15.0	15.5	III	2	K=1.2H	3	F? bright pun	7.5	31.0	10.3	38.9
	15.7	22.2	II	2	K=H	1	—	7.8	44.4	10.0	25.5

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No.	R.A.		Dec.		Mag.		H.	V.
2696	12	49.9	+	9	4	7.4	70.3	17.9
2683	12	44.9	+	9	0	8.2	70.2	17.8
~~2650~~	~~12~~	~~43.5~~	~~+~~	~~8~~	~~54~~	~~8.3~~	~~69.7~~	~~17.7~~
2650	12	43.5	+	8	54	8.3	70.3	17.8
~~2648~~	~~12~~	~~43.3~~	~~+~~	~~8~~	~~54~~	~~8.6~~	~~70.1~~	~~17.8~~
2648	12	43.3	+	8	54	8.6	70.3	17.8
~~2647~~	~~12~~	~~42.8~~	~~+~~	~~8~~	~~54~~	~~9.5~~		
2673	12	40.6	+	9	19	8.3	70.2	17.8
2634	12	34.9	+	8	51	8.0	69.9	17.6
2713	12	57.2	+	9	26	8.1	70.4	17.7
~~2711~~	~~12~~	~~56.3~~	~~+~~	~~9~~	~~44~~	~~9.4~~		
2705	12	53.8	+	9	22	8.6	70.4	17.6
~~2704~~	~~12~~	~~53.3~~	~~+~~	~~9~~	~~14~~	~~9.5~~		
2688	12	45.9	+	9	33	8.8	70.3	17.8
2682	12	43.4	+	9	39	8.8	70.2	17.8
2681	12	42.7	+	9	22	9.0		
2669	12	39.7	+	9	51	7.9	69.9	17.8
2666	12	39.0	+	9	36	8.4	70.0	17.8
2658	12	33.6	+	9	38	7.7	69.8	17.8
2653	12	32.9	+	9	~~19~~ 20	8.5	69.9	17.7
2648	12	29.8	+	9	36	7.0	69.8	17.8
2643	12	27.3	+	9	22	8.7	69.7	17.8
2639	12	26.7	+	9	22	8.8	69.9	17.8
2719	12	56.0	+	9	49	8.8	70.4	17.7
~~2502~~	~~12~~	~~55.4~~	~~+~~	~~10~~	~~6~~	~~9.5~~		
2508	12	57.5	+	10	14	8.3	70.5	17.7
~~2508~~	~~12~~	~~56.9~~	~~+~~	~~10~~	~~18~~	~~9.5~~		
2496	12	52.5	+	10	18	7.3	70.5	17.8
2490	12	50.6	+	10	8	7.8	70.4	17.8
2487	12	49.3	+	10	6	8.2	70.3	17.8
2474	12	42.3	+	10	10	8.3	70.3	17.9
2675	12	41.0	+	9	54	8.2	70.2	17.8
2669	12	39.7	+	9	51	7.9	70.5	17.6
2468	12	39.0	+	10	22	6.4	70.0	17.9
	12		+					

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Plate 1386.

	r	H	Type	No. lines	K	Focus	Other lines.	V.	H.	V.	H.
	14,0	9,2	II	2	K=H	1	—	7.0	18.4	10.8	31.5
	14,5	9,7	II	2	K=H	1	—	7.2	19.4	10.6	30.5
	14,4	13,6	II	2	K=H	1	—	7.2	27.2	10.6	42.7
?	14,3	17,7	II	2	K=H	2	F? pure.	7.2	33.4	10.6	34.5
	14,8	19,5	II	2	K=H	1	—	7.4	39.0	10.4	30.9
	14,7	20,1	II	2	K=H	1	—	7.4	40.2	10.4	29.7
	14,5	23,2	II	3	K=H	2	F.	7.2	46.4	10.6	23.5
	13,4	6,2	II	2	K=H	1	—	6.7	12.4	11.1	37.5
	13,1	7,4	II	2	K=H	1	—	6.6	14.8	11.2	35.1
	13,7	8,1	II	1	N	1	—	6.8	16.2	11.0	33.7
	13,0	10,5	I	5	K=1,2H	1	—	6.5	21.0	11.3	48.9
	13,8	17,0	III	2	K=H	1	—	6.9	34.0	10.9	33.9
	13,6	17,7	I	10	N	5	F.	6.8	35.4	11.0	34.5
	13,3	17,8	I	9	K=1,1H	3	F.	6.6	35.6	11.2	34.3
	13,3	18,6	III	2	K=H	1	—	6.6	37.2	11.2	32.7
	13,5	22,0	III	2	K=H	2	—	6.8	44.0	11.0	25.9
	13,4	22,7	II	2	K=H	1	—	6.7	45.4	11.1	24.5
	12,6	5,6	II	2	K=H	1	—	6.3	11.2	11.5	38.7
?	12,4	7,8	III?	2	K=3,0H?	5	F. bijst.	6.2	15.6	11.6	37.3
	12,7	9,2	III	3	K=H	1	F.	6.4	18.4	11.4	31.5
	12,0	13,8	II	1	N	1	—	6.0	27.6	11.8	42.3
?	12,2	16,6	II	2	K=H	1	F pure.	6.1	33.2	11.7	36.7
	12,3	17,5	I	3	N	1	—	6.2	35.0	11.6	34.9
	12,9	19,7	III	3	K=H	1	F.	6.4	39.4	11.4	30.5
	12,6	20,3	II	2	K=H	1	—	6.3	40.6	11.5	29.3
	12,4	21,1	II	5	K=H	2	—	6.2	42.2	11.6	27.7
	12,2	21,3	I	6	K=H	2	F.	6.1	42.6	11.7	27.3
	11,5	6,9	III	2	K=H	1	—	5.8	13.8	12.0	36.1

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No.	R.A. 12		Dec.		Mag.	H.	V.	
2492	12	51.0	+10	32	8.8	70.4	177	?
2477	12	43.1	+10	37	8.8	70.3	178	
2459	12	34.5	+10	40	7.7	69.9	179	
2455	12	30.8	+10	23	8.5	69.8	178	?
2450	12	29.6	+10	24	8.9	69.8	178	
2432	12	23.2	+10	32	8.0	69.6	177	
2532	12	57.7	+11	7	8.8	70.1	178	
2534	12	58.2	+11	10	8.7	70.6	179	?
2530	12	55.7	+11	13	9.0	70.5	178	?
2501	12	54.2	+10	55	8.7	70.4	177	
2515	12	49.5	+11	18	8.3	70.5	178	
2461	12	36.0	+10	54	8.1	70.0	178	
2485	12	34.6	+11	2	5.2	70.0	178	
2484	12	34.3	+11	13	7.0	69.9	178	
2481	12	32.6	+11	10	9.1	69.8	178	?
2473	12	25.7	+11	5	6.4	69.7	179	
2470	12	24.3	+11	4	8.7	69.7	178	
2537	12	59.2	+11	29	8.7	70.4	178	
2529	12	55.0	+11	44	3.0	706	179	
2520	12	52.1	+11	28	8.2	70.5	179	
2501	12	42.6	+11	48	9.0	70.2	178	?
2487	12	36.7	+11	44	8.6	69.9	178	
2486	12	34.9	+11	40	9.0	69.9	179	?
2478	12	30.3	+11	23	8.0	69.7	178	
2477	12	29.1	+11	32	8.3	69.7	178	
2475	12	27.6	+11	38	8.0	69.8	178	
2474	12	27.0	+11	43	7.5	69.6	178	
2545	12	56.8	+12	1	8.0	70.6	178	

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Plate 138 b.

T	H	Type	No. Lines	K	Focus	Other Lines.	V.	H.	V.	H.
11.8	8.2	II	2	K=H	1	—	5.9	16.4	11.9	53.5
11.1	10.3	II	1	N	1	—	5.6	20.6	12.2	49.3
11.1	11.1	III	3	K=H	2	F.	5.6	22.2	12.2	47.7
11.1	11.4	II	2	K=H	1	—	5.6	22.8	12.2	47.1
11.4	15.4	II	3	K=H	1	F	5.7	30.8	12.1	39.1
11.2	20.5	II	3	K=H	1	F	5.6	41.0	12.2	28.9
11.0	20.9	III	2	K=H	1	—	5.5	41.8	12.3	28.1
11.4	21.2	III	3	K=H	1	F.	5.7	42.4	12.1	27.5
? 10.1	7.2	II	2	K=H	1	pecu.	5.0	14.4	12.8	55.5
10.0	14.4	II	2	K=H	2	—	5.0	28.8	12.8	41.1
10.3	15.0	I	9	K=.2H	3	F.	5.2	30.0	12.6	39.9
10.5	17.1	III	1	N	1	—	5.2	34.2	12.6	35.7
10.4	19.9	III	2	K=H	1	—	5.2	39.8	12.6	30.1
10.9	23.7	II	2	K=H	1	—	5.4	47.4	12.4	22.5
9.4	11.8	III	2	K=H	1	—	4.7	23.6	13.1	46.3
9.3	11.9	I	9	K=.5H	3	F.	4.6	23.8	13.2	46.1
9.2	12.2	I	8	K=.2H	2	F.	4.6	24.4	13.2	45.5
9.4	13.1	I	6	N	1	—	4.7	26.2	13.1	43.7
9.0	13.5	II	2	K=H	1	—	4.5	27.0	13.3	42.9
9.0	15.5	II	2	K=H	1	—	4.5	31.0	13.3	38.9
9.1	17.1	II	2	K=H	1	—	4.6	34.2	13.2	35.7
9.8	22.6	I	6	K=H	2	—	4.9	45.2	12.9	24.7
9.8	24.1	III	2	K=H	1	—	4.9	48.2	12.9	21.7
9.1	23.1	III	2	K=H	1	—	4.6	46.2	13.2	23.7
? 8.8	11.1	III	3	K=H	1	F, pecu.	4.4	22.2	13.4	47.7
8.0	11.2	II	1	N	1	—	4.0	22.4	13.8	47.5
8.8	14.8	III	2	K=H	1	—	4.4	29.6	13.4	40.3
8.7	14.4	II	2	K=H	1	—	4.4	28.8	13.4	41.1

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No.	R.A.	Dec.	Mag.	H.	V.	
2526	12 54.0	+11 50	8.9	70.4	17.7	?
2531	12 49.9	+12 12	8.7	70.4	17.8	
2529	12 48.2	+12 17	7.3	70.4	17.9	?
2528	12 47.6	+12 16	8.3	70.4	17.9	?
2511	12 39.3	+12 10	8.6	70.1	17.9	
2492	12 28.7	+12 12	8.3	69.7	17.8	
2489	12 27.9	+12 20	7.3	69.7	17.8	
2488	12 27.3	+12 6	7.8	69.7	17.8	
2541	12 55.8	+13 40	8.9	70.2	17.7	?
2518	12 41.6	+12 53	7.3	70.4	17.9	
2513	12 39.9	+12 45	6.3	69.9	18.0	
2505	12 35.8	+12 35	8.3	70.0	17.8	
2495	12 29.9	+12 37	7.8	69.7	17.8	
2478	12 22.2	+12 18	8.3	69.6	17.7	?
2603	12 46.9	+13 8	8.5	70.5	17.8	
2602	12 46.6	+13 18	6.0	70.4	17.8	
2599	12 45.9	+13 16	7.8	70.3	17.9	
2596	12 44.1	+13 10	8.3	70.3	17.9	
2594	12 43.3	+13 21	8.3	70.3	17.9	
2578	12 38.9	+13 22	8.9	69.9	17.9	?
2571	12 35.8	+13 15	8.8	70.0	17.8	
2484	12 24.3	+12 56	7.3	69.5	17.8	
2477	12 21.2	+12 55	7.5	69.4	17.8	
2545	12 23.5	+13 17	8.3	69.7	17.9	?
2607	12 48.2	+13 29	8.2	70.4	17.9	
2606	12 48.0	+13 50	8.8	70.4	17.8	
2584	12 40.7	+13 24	8.5	70.3	17.8	?
2588	12 41.4	+13 27	8.8	70.2	17.8	

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Plate 1386.

V	H	Type	No. Lines	K	Focus	Other Lines.	V.	HE	V	H
8,8	18,2	III	1	N	1	F.	4.4	36.4	13.4	33.5
8,2	19.8	III	3	K=H	1	F.	4.1	39.6	13.7	30.3
7.6	6,2	III	2	K=H	1	—	3.8	12.4	14.0	57.5
7.1	7.5	II	3	K=H	1	F.	3.6	15.0	14.2	54.9
7,8	8,2	I	6	K=.5H	2	F.	3.9	16.4	13.9	53.5
7,5	12,2	II?	2	K=H	1	—	3.8	24.4	14.0	45.5
7,6	14,4	III	1	N	1	F.	3.8	28.8	14.0	41.1
7,2	14,7	I	8	N	3	F.	3.6	29.4	14.2	40.5
7,4	14,8	III	2	K=H	1	—	3.7	29.6	14.1	40.3
? 7,0	15,1	II	3	K=H	2	F, pure	3.5	30.2	14.3	39.7
7,0	15.7	III	2	K=H	1	—	3.5	31.4	14.3	38.5
7,4	15.9	III	2	K=H	1	—	3.7	31,8	14.1	38.1
6,4	8.8	III	2	K=H	1	—	3.2	17.6	14.6	52.3
6.0	14,3	I	11	K=.2H	4	F.	3.0	28.6	14.8	41.3
6,5	19,0	I	4	K=H	1	—	3.2	38.0	14.6	31.9
6.6	19,2	III	2	K=H	1	—	3.3	38,4	14.5	31.5
5.4	8,6	III	2	K=H	1	—	2.7	17,2	15.1	52.7
5,5	15,9	I	9	N	2	F.	2.8	31,8	15.0	38.1
? 5.6	18.9	I	3	K=H	1	F, pure	2.8	37,8	15.0	32.1
4,3	6.0	II	2	K=H	1	—	2.2	12.0	15.6	57.9
4,6	6,3	II	2	K=H	1	—	2.3	12.6	15.5	57.3
? 4,1	12,3	II	2	K=H	1	pure	2.0	24,6	15.8	45.3
4,4	13,1	II	2	K=H	1	—	2.2	26.2	15.6	43.7
4.5	19,3	II	2	K=H	1	—	2,2	38.6	15.6	31.3
4,8	23,5	III	1	N	1	F.	2,4	47.0	15.4	22.9
3,1	8,6	II?	3	K=H	1	F.	1.6	17.2	16.2	52.7
? 3,4	14,4	II	2	K=H	1	pure	1.7	28.8	16.1	41.1
3,0	15,1	II	3	K=H	2	F.	1.5	30.2	16.3	39.7

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No.	R. A.	Dec.	Mag.	H.	V.	
2569	12 33.4	+13 30	8.2	69.8	17.9	
2561	12 30.1	+13 47	8.0	69.7	17.9	?
2578	12 38.4	+14 1	7.4	70.8	17.8	
2573	12 35.6	+14 14	8.2	70.6	17.8	
2619	12 54.2	+13 57	8.0	70.6	17.9	?
2606	12 46.0	+13 58	8.8	70.4	17.8	
2558	12 46.1	+14 8	8.5	70.5	17.9	?
2547	12 41.5	+14 6	8.2	70.3	17.9	
2546	12 41.0	+14 21	6.5	70.4	18.0	
2545	12 40.6	+14 12	8.1	70.2	17.9	
2544	12 39.8	+14 25	7.5	70.0	17.9	
2539	12 38.7	+14 21	8.2	70.1	17.9	
2538	12 38.2	+14 13	8.2	70.0	17.9	
2567	12 53.1	+14 38	7.8	70.7	17.8	
2549	12 41.6	+14 35	5.9	70.2	17.9	
2528	12 31.7	+14 35	8.8	69.7	17.8	
2525	12 31.6	+14 35	8.8	69.6	17.8	?
2523	12 31.3	+14 36	6.5	69.7	17.9	
2531	12 53.6	+15 9	8.3	70.8	17.9	
2504	12 38.2	+15 10	8.0	70.0	18.0	?
2490	12 31.9	+15 9	8.2	69.7	18.0	
2542	12 58.8	+15 36	8.5	70.8	17.8	
2541	12 58.3	+15 30	7.9	70.9	17.8	
2515	12 45.7	+15 49	8.2	70.3	17.8	
2512	12 44.2	+15 40	8.6	70.4	17.9	
2488	12 31.2	+15 40	7.7	69.8	17.9	
2469	12 22.5	+15 27	7.5	69.5	17.8	
2444	12 53.6	+16 17	8.3	70.8	17.9	
2427	12 41.6	+16 13	8.7	70.4	17.9	
2420	12 39.9	+16 24	7.3	70.1	17.9	

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Plate 1386.

V	H	Type	No. Lines	K	Focus	Other Lines.	V	JE	V.	H
3.9	16.6	I	4	K=H	1	—	2.0	33.2	15.8	36.7
3.4	16.9	III	2	K=H	1	—	1.7	33.8	16.1	36.1
3.4	18.0	III	3	K=H	1	F.	1.7	36.0	16.1	33.9
2.5	10.9	III	2	K=H	1	—	~~2.2~~ 1.6	21.8	~~15.6~~ 16.1	48.1
2.0	12.6	I?	2	N	3	F.	1.0	25.2	16.8	44.7
2.7	16.7	II	2	K=H	1	—	1.4	33.4	16.4	36.5
2.8	20.7	III	2	K=H	1	—	1.4	41.4	16.4	28.5
2.6	21.1	III	2	K=H	1	—	1.3	42.2	16.5	27.7

Plate 1307.

?	22.2	15.0	III	2	K=H	1	diff.	11.1	30.0	1.4	59.8
	22.6	16.2	III	2	K=H	1	—	11.3	32.4	1.2	57.4
	20.8	10.4	I	5	K=H	1	—	10.4	20.8	2.1	69.0
	20.4	11.8	III	2	N	1	F.	10.2	23.6	2.3	66.2
	20.4	15.0	III	2	K=H	1	—	10.2	30.0	2.3	59.8
	20.4	19.9	I	5	K=H	1	F.	10.2	39.8	2.3	50.0
	19.3	7.9	I	8	N	3	F.	9.6	15.8	2.9	74.0
	18.0	6.9	III	2	K=H	1	—	9.0	13.8	3.5	76.0
	19.0	14.3	II	2	K=H	1	—	9.5	28.6	3.0	61.2
	17.6	8.4	I	6	N	2	—	8.8	~~17.8~~ 18.6	3.7	72.0
	17.6	9.2	III	3	K=H	1	F.	8.8	18.4	3.7	71.4
	17.4	11.0	III	2	K=H	1	—	8.7	22.0	3.8	67.8
	17.1	14.2	III	3	K=H	1	F.	8.6	28.4	3.9	61.4
	17.4	21.0	III	1	N	1	—	8.7	42.0	3.8	47.8
	17.3	22.7	III	2	K=H	1	—	8.6	45.4	3.9	44.4
	16.9	8.7	III	1	N	1	—	8.4	~~17.4~~ 17.4	4.1	~~72.8~~ 72.4
	16.1	9.4	I	7	N	2	—	8.0	18.8	4.5	71.0
	16.1	9.2	III	1	N	1	—	8.0	18.4	4.5	71.4

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No.	R. A.	Dec.	Mag.	H.	V.	
2500	12 36.6	+15 55	8.7	69.8	17.9	
2411	12 36.1	+16 11	8.7	69.9	17.9	?
2404	12 33.8	+16 11	8.0	69.8	17.9	
2437	12 48.8	+16 36	9.0	70.6	17.8	?
~~2319~~	~~12 48.2~~	~~+16 28~~	~~6.0~~			
2430	12 45.2	+16 55	6.5	70.4	17.9	
2413	12 36.6	+16 31	8.8	70.0	17.9	?
2392	12 28.2	+16 26	8.0	69.6	17.8	
2390	12 27.4	+16 37	8.0	69.6	17.9	
2789	12 59.9	+1 21	7.2	89.9	12.5	
2786	12 57.4	+1 4	7.7	89.8	12.4	
2653	13 9.5	+2 0	7.5	30.3	12.4	?
2646	13 6.6	+2 13	7.0	30.2	12.4	
2626	13 0.2	+2 15	7.7	30.2	12.4	
2604	12 50.1	+2 13	7.7	89.9	12.4	
2664	13 14.3	+2 51	5.8	30.1	12.4	
2765	13 16.3	+3 28	8.5	30.1	12.5	?
2766	13 16.3	+3 28	8.3	30.1	12.5	?
2632	13 1.6	+2 56	8.3	30.2	12.4	
2758	13 13.3	+3 43	7.0	30.1	12.5	
2757	13 11.8	+3 40	8.5	30.1	12.5	?
2748	13 8.2	+3 49	7.7	30.2	12.5	
2739	13 1.8	+3 55	7.7	30.2	12.5	
2714	12 47.8	+3 50	8.0	89.8	12.5	
2703	12 44.2	+3 51	7.2	89.6	12.4	
2728	13 12.9	+4 2	7.5	30.3	12.4	
2721	13 11.5	+4 27	6.7	30.3	12.4	
2723	13 11.8	+4 29	7.7	30.2	12.5	

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Plate 1307.

	V	H	Type	No. lines	K	Focus	Other lines.		V.	H.	V.	H.
	16,8	14,7	I	3	N	1	—		8.4	29.4	4.1	60.4
?	16,6	20,7	III	2	K=1.2H	4	7?	bright spec.	8.3	41.4	4.2	48.4
	15,4	12,5	I	5	K=H	1	—		7.7	25.0	4.8	64.8
	15,5	15,0	III	2	K=H	1	—		7.8	30.0	4.7	59.8
	15,2	15,7	II	2	K=H	1	—		7.6	31.4	4.9	58.4
	14,6	18,0	I	6	K=1.5H	1	—		7.3	36.6	5.2	53.8
	13,3	17,7	I	7	N	3	F		6.6	35,4	5.9	54.4
	13,0	14,3	II	2	K=H	2	—		6.5	28,6	6.0	61.2
	13,1	19,1	II	2	K=H	1	—		6.6	38.2	5.9	51.6
	12,5	9,0	III	1	N	1	—		6.2	18.0	6,3	71.8
?	12,6	10,0	III	2	K=H	2	bright spec.		6.3	20.0	6.2	69.8
	12,7	20,9	I	5	K=H	1	—		6.4	~~40.0~~ 41.8	6.1	~~49.8~~ 48.0
	11,5	14,0	II	2	K=H	1	—		5.8	28.0	6.7	61.8
	10,4	18,9	II	1	N	1	—		5.2	37.8	7.3	52.0
	10,0	13,0	I	4	N	1	—		5.0	26.0	7.5	63.8
	9,6	14,0	III	1	N	1	—		4.8	28.0	7.7	61.8
	9,2	15,2	I	3	N	1	—		4.6	30.4	7.9	59.4
	7,7	10,9	III	1	N	1	—		3.8	21.8	8.7	68.0
?	7,0	19,9	II	2	K=H	1	spec.		3.5	39.8	9.0	50.0
	6,6	8,8	III	1	N	1	—		3.3	17.6	9.2	72.2
?	4,8	10,3	II	3	K=1.5H?	3	bright spec.		2.4	20.6	10.1	69.2
	4,6	18,6	III	2	K=H	1	—		2.3	37.2	10.2	52.6
	4,9	19,6	I	6	K=1.5H	1	—		2.4	39.2	10.1	50.6
	3,6	14,1	III	2	K=H	2	bright spec.		1.8	28,2	10.7	61.6
	2,5	20,1	I	3	N	1	—		1.2	~~40.2~~ 39.8	11.3	49.6
12 30	1,8	17,4	?	3	N	5	F	bright spec.	~~0.9~~ 1.4	~~35,8~~ 39.4	~~11.6~~ 11.1	55.0

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89.8 12.5

No.	R.A.	Dec.	Mag.	M.	V.
2695	13 6.6	+4 2	8.3	30.0	12.4
2669	12 48.3	+4 11	3.0	89.7	12.5
2703	13 5.3	+4 49	7.7	30.3	12.5
2693	13 0.1	+4 44	7.8	30.1	12.5
2690	12 58.4	+4 53	7.8	89.8	12.5
2702	12 53.8	+5 8	7.3	89.8	12.4
~~26~~	12	+			
2697	13 1.5	+5 1	6.8	30.1	12.5
2699	12 51.6	+5 53	8.2	89.8	12.5
2727	13 12.3	+6 14	8.2	30.3	12.4
2722	13 10.3	+6 14	5.2	30.3	12.5
2673	12 47.9	+6 6	8.0	89.7	12.5
2700	13 2.3	+6 46	8.2	30.3	12.6
2600	12 52.0	+7 18	7.5	89.8	12.5
2621	13 3.8	+7 24	8.9	29.8	
2623	13 4.2	+7 34	7.8	30.2	12.6
2617	13 2.0	+7 47	8.2	30.0	12.6
2612	12 59.4	+7 35	8.2	89.8	12.5
2690	13 8.5	+8 44	7.0	30.3	12.5
2696	12 49.9	+9 4	7.4	89.7	12.6
2743	13 12.7	+9 15	7.8	30.3	12.5
2531	13 9.6	+10 11	6.0	30.3	12.6
2496	12 52.5	+10 18	7.3	89.7	12.6
2490	12 50.6	+10 8	7.8	89.8	12.5
2516	13 2.0	+10 48	6.7	30.2	12.6
2515	12 49.5	+11 18	8.3	89.7	12.5
2529	12 55.0	+11 44	3.0	89.8	12.6

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June 3, 1887.

Plate 1387.

	T	H	Type	No. lines	K	Focus	Other lines.	V	JE	V.	Th.
9 15	22.4	15.6	III	3	K=H	2	F.	11.2	31.2	6.6	17.3
	21.1	8.7	II	2	K=H	1	—	10.6	17.4	7.2	31.8
	21.1	14.9	III	3	K=H	2	F.	10.6	29.8	7.2	18.7
	21.8	20.4	II	2	K=H	1	—	10.9	40.8	6.9	7.7
	21.5	21.4	III	2	K=H	1	—	10.8	42.8	7.0	5.7
	20.3	9.0	III	2	K=H	2	—	10.2	18.0	7.6	30.5
	20.0	11.9	III	1	H	1	—	10.0	23.8	7.8	24.7
	20.8	11.8	II	2	K=H	1	—	10.4	23.6	7.4	24.9
	20.0	12.5	III	3	K=H	2	F.	10.0	25.0	7.8	23.5
	20.8	21.1	III	3	K=H	1	F.	10.4	42.2	7.4	6.3
	20.3	22.5	II	2	K=H	1	—	10.2	45.0	7.6	2.5
	20.5	23.0	II	3	H	1	—	10.2	46.0	7.6	2.5
	19.7	9.8	II	2	K=H	1	—	9.8	19.6	8.0	28.9
	19.5	10.9	II	3	K=H	1	F.	9.8	21.8	8.0	26.7
	19.0	11.6	III	2	K=H	1	—	9.5	23.2	8.3	25.3
	19.7	13.3	II	2	K=H	1	—	9.8	26.6	8.0	21.9
	19.4	20.8	II	1	H	1	—	9.7	41.6	8.1	6.9
?	19.0	21.2	II	2	K=H	2	F. pace	9.5	42.4	8.3	6.1
	19.2	22.3	II?	4	K=H	1	—	9.6	44.6	8.2	3.9
	19.2	23.6	II	3	K=H	2	F	9.6	47.2	8.2	1.3
	18.8	6.5	III	2	K=H	1	—	9.4	13.0	8.4	35.5
	18.9	8.5	III	1	H	1	—	9.4	17.0	8.4	31.5
	18.0	9.0	II	2	K=H	1	—	9.0	18.0	8.8	30.5
	18.8	11.5	III	3	K=H	1	F.	9.4	23.0	8.4	25.5
	18.6	12.1	III	3	K=H	2	F	9.3	24.2	8.5	24.3
	18.4	15.2	II	3	K=1.2H	1	F.	9.2	30.4	8.6	18.1
	18.5	15.6	III	2	K=H	1	—	9.2	31.2	8.6	17.3
	18.0	15.7	II	2	K=H	1	—	9.0	31.4	8.8	17.1

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No.	R.A.		Dec.		Mag.	H. v.
3462	13	16.9	−3	33	7.0	48.1
3716	13	31.0	−2	58	8.5	48.4
3683	13	18.5	−2	38	var	48.3
	13		−			
3426	13	5.3	−3	7	8.4	48.1
3714	13	30.3	−2	30	6.8	48.3
3701	13	24.7	−2	21	8.7	48.5
3703	13	24.8	−2	49	8.5	48.4
3695	13	23.4	−2	18	7.3	48.4
3651	13	5.9	−2	43	7.5	48.1
3642	13	3.3	−2	31	8.7	48.3
3638	13	2.3	−2	37	8.3	48.3
2714	13	28.8	−2	12	8.7	48.4
2841	13	29.1	−1	47	8.7	48.7
~~2838~~	~~13~~	~~27.8~~	~~−1~~	~~46~~	~~8.5~~	~~6~~
2708	13	26.5	−2	8	8.7	48.3
2834	13	25.5	−1	41	8.0	48.7
	13		−			
2653	13	6.6	−2	2	8.2	48.3
2786	13	5.8	−1	47	8.0	48.2
2781	13	3.5	−1	57	8.5	48.1
2777	13	1.1	−1	55	8.5	48.3
2851	13	35.5	−1	45	8.2	48.5
2847	13	31.5	−1	47	8.0	48.5
2844	13	30.4	−1	22	8.5	48.4
2834	13	25.5	−1	41	8.0	48.5
2832	13	24.3	−1	34	7.5	48.5
2817	13	17.8	−1	28	8.5	48.2
2816	13	16.9	−1	33	8.8	48.1
2815	13	16.8	−1	21	8.3	48.4

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June 3, 1887.

Plate 1387. 498

	Y	H	Type	No. lines	K	Focus	Other lines.	U	F	V.	H.
	17.8	12.8	I	7	H	2	—	8.9	2.56	8.9	22.9
	17.3	19.1	II	1	H	1	—	8.6	38.2	9.2	10.3
	17.4	20.1	II	2	K=H	1	—	8.7	40.2	9.1	8.3
	17.9	20.4	III	2	K=H	1	—	8.8 9.0	40.8	9.0 8.8	7.7
	17.5	21.4	III	3	K=H	1	F.	8.8	42.8	9.0	5.7
	16.3	6.5	III	3	K=H	1	F.	8.2	13.0	9.6	33.5
	16.4	9.6	III	2	K=H	1	—	8.2	19.2	9.6	29.3
	16.4	12.1	III	2	K=H	1	—	8.2	24.2	9.6	24.3
?	16.7	13.4	III	2	K=H	2	Bright pair	8.4	26.8	9.4	21.7
	16.0	14.2	III	2	K=H	1	—	8.0	28.4	9.8	20.1
	16.4	14.8	II	10	K=.5H	3	F.	8.2	29.6	9.6	18.9
	16.8	19.6	I	8	K=.5H	2	F.	8.4	39.2	9.4	9.3
	15.8	8.7	II	2	K=H	1	—	7.9	17.4	9.9	31.1
	15.1	9.1	II	2	K=H	1	—	7.6	18.2	0.2	30.3
?	15.8	9.8	II	2	K=H	2	pair.	7.9	19.6	9.9	28.9
	15.4	10.6	I	12	K=.2H?	5	F.	7.7	21.2	0.1	27.3
?	15.7	13.8	II	2	K=H	2	pair. F?	7.8	27.6	0.0	20.9
	15.4	16.0	II	2	K=H	1	—	7.7	32.0	0.1	16.5
	15.2	16.6	II	2	K=H	1	—	7.6	33.2	0.2	15.3
	15.4	19.1	I	8	K=.5H	3	F.	7.7	38.2	0.1	10.3
	15.2	22.4	III	2	K=H	1	—	7.6	44.8	0.2	3.7
	15.1	22.8	III	2	K=H	1	—	7.6	45.6	0.2	2.9
	14.4	9.2	II	2	K=H	1	—	7.2	18.4	0.6	30.1
	14.6	10.8	II	2	K=H	1	—	7.3	21.6	0.5	26.9
	14.5	13.9	II	2	K=H	1	—	7.2	27.8	0.6	20.7
	14.8	15.0	III	2	K=H	1	—	7.4	30.0	0.4	18.5
	14.6	15.7	II	2	K=H	2	—	7.3	31.4	0.5	17.1
	14.1	16.7	III	2	K=H	1	—	7.0	33.4	0.8	15.1

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No.	R.A.	Dec.	Mag.	H.	V.	
2827	13 22.8	− 1 8	7.8	48.4	17.8	?
2675	13 10.0	− 0 55	8.8	48.2	17.7	?
2672	13 7.9	− 0 59	8.7	48.1	17.7	?
2790	13 7.4	− 1 13	8.8	48.2	17.8	
2668	13 5.3	− 0 59	7.3	48.1	17.8	
2727	13 35.5	− 0 28	8.2	48.5	17.7	
2713	13 29.3	− 0 31	8.8	48.5	17.7	
2700	13 24.3	− 0 30	8.7	48.5	17.7	
2694	13 21.8	− 0 37	7.0	48.6	17.8	
2691	13 20.9	− 0 5	8.0	49.3	17.9	?
2686	13 18.8	− 0 27	7.0	48.4	17.8	
2674	13 9.0	− 0 37	7.2	48.2	17.8	
2717	13 31.0	− 0 16	8.8	48.4	17.6	?
3084	13 30.4	+ 0 6	8.8	48.6	7.6 8.2	?
2710	13 28.9	− 0 11	7.7	48.5	17.7	?
3076	13 27.4	+ 0 8	3.5	48.6	7.8	
2691	13 20.9	− 0 5	8.0	48.5	17.7	?
3050	13 16.3	+ 0 3	8.6	48.3	7.7	?
3049	13 15.1	+ 0 10	8.1	48.3	7.8	
3040	13 10.1	+ 0 5	6.7	48.3	7.8	
3030	13 3.3	+ 0 20	8.5	48.1	7.9	
3028	13 2.7	+ 0 9	8.7	48.3	7.8	
3082	13 30.1	+ 0 31	8.5	48.5	7.7	
3075	13 26.9	+ 0 26	7.8	48.5	7.7	
3063	13 20.6	+ 0 27	8.5	48.4	7.6	
3053	13 18.4	+ 0 18	8.8	48.4	7.7	
3051	13 16.9	+ 0 26	8.1	48.3	7.7	
3048	13 14.7	+ 0 42	8.1	48.4	7.7	?

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June 3, 1887.

Plate 1387.

V	H	Type	No. lines	K	Focus	Other lines.	V	H	V.	H.
14.4	20.6	III	1	N	1	—	7.2	44.6	0.6	6.9
14.0	23.1	II	2	K=H	1	—	7.0	46.2	0.8	2.3
13.4	12.9	III	2	K=H	1	—	6.7	25.8	1.1	22.7
13.7	13.3	II	2	K=H	2	F.	6.8	26.6	1.0	21.9
13.0	16.0	II	2	K=H	1	—	6.5	32.0	1.3	16.5
13.0	18.4	II	2	K=H	1	—	6.5	36.8	1.3	11.7
13.5	20.7	III	2	K=H	1	—	6.8	41.4	1.0	7.1
12.5	8.4	II	2	K=H	1	—	6.2	16.8	1.6	32.7
12.9	10.9	II	2	K=H	1	—	6.4	21.8	1.4	26.7
12.0	11.2	III	1	N	1	—	6.0	22.4	1.8	26.1
12.4	15.2	III	2	K=H	2	—	6.2	30.4	1.6	18.1
12.4	23.0	III	1	N	1	—	6.2	46.0	1.6	2.5
? 12.7	24.1	II	2	K=H	2	pecc.	6.4	48.2	1.4	0.3
11.8	8.2	II	2	K=H	2	—	5.9	16.4	1.9	32.1
? 11.5	8.7	II?	2	K=H	2	pecc.	5.8	17.4	2.0	32.1
11.0	8.7	I	4	N	1	—	5.5	17.4	2.3	32.1
11.9	13.1	I	9	K=,√H	3	F.	6.0	26.2	1.8	22.3
11.5	14.5	II	2	K=H	1	—	5.8	29.0	2.0	19.5
11.2	15.7	I	8	K=,2H	3	F.	5.6	31.4	2.2	17.1
11.9	18.6	II	2	K=H	1	—	~~6.0~~	37.2	~~1.8~~	11.3
11.5	18.6	II	2	K=H	2	—	5.8	37.2	2.0	11.3
? 11.5	19.4	II?	4	K=H	2	F pecc.	5.8	38.8	2.0	8.7
11.1	20.8	III	3	K=H	2	F.	5.6	41.6	2.2	6.7
? 11.0	24.0	II	2	K=H	2	pecc.	5.5	48.0	2.3	0.5
10.0	6.1	II	2	K=H	1	—	5.0	12.2	2.8	36.3
10.6	13.2	II	2	K=H	1	—	5.3	26.4	2.5	22.1
10.7	15.2	II	3	K=H	1	F.	5.4	30.4	2.4	18.1
10.0	17.0	I	11	K=,2H	4	F.	5.0	34.0	2.8	14.5

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No.	R.A. 13	Dec. +	Mag.	H.	V.	
3026	13 2.0	+0 41	8.8	48.2	7.7	
2820	13 22.7	+1 5	8.7	48.5	7.8	
3065	13 21.8	+0 52	8.2	48.4	7.7	
2809	13 16.2	+1 16	9.0	48.2	7.8	?
2803	13 11.5	+1 16	8.1	48.3	7.8	
2036	13 6.8	+0 56	9.0	48.2	7.7	?
2835	13 31.7	+1 27	8.8	48.5	7.7	?
2828	13 26.7	+1 15	8.5	48.5	7.6	
2826	13 26.1	+1 43	8.4	48.5	7.7	
2813	13 17.9	+1 36	8.0	48.3	7.8	
2792	13 2.1	+1 32	9.0	48.1	7.7	?
2789	13 0.0	+1 21	7.2	48.3	7.8	
3836	13 32.3	+1 50	8.0	48.6	7.7	
2834	13 31.3	+1 60	8.2	48.6	7.8	
2702	13 31.2	+2 13	8.6	48.6	7.7	
2819	13 22.4	+1 50	7.1	48.6	7.8	
2815	13 19.6	+1 59	9.0	48.6	7.8	?
2671	13 16.9	+2 9	7.1	48.3	7.8	
2802	13 11.0	+1 48	8.7	48.3	7.8	
2658	13 11.1	+2 1	8.0	48.3	7.8	
2653	13 9.5	+2 0	7.5	48.3	7.8	
2646	13 6.6	+2 13	7.0	48.3	7.8	
2626	13 0.2	+2 15	7.7	48.2	7.8	
2715	13 36.3	+2 42	9.0	48.5	7.7	?
2685	13 22.3	+2 27	8.7	48.6	7.8	
2674	13 18.0	+2 23	9.0	48.4	7.8	?
2664	13 14.3	+2 31	8.8	48.3	7.8	

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June 3, 1887.

Plate 1387.

?	T	H	Type	No. Lines	K	No. Focus	Other Lines.	V	HE	V.	H.
	10,8	17,1	II	3	N	1	—	5.4	34.2	2.4	14.3
?	10,7	17,8	II	2	K=H	2	perm.	5.4	35.6	2.4	12.9
	10,5	22,4	II	1	N	1	—	5.2	44.8	2.6	3.7
	9,6	7,7	III	2	K=H	1	—	4.8	15.4	3.0	33.1
	9,3	8,7	III	1	N	1	—	4.6	17.4	3.2	31.1
	9,2	9,1	III	2	K=H	2	Bright lines	4.6	18.2	3.2	30.3
	9,6	13,8	III	2	K=H	2	—	4.8	27.6	3.0	20.9
	9,0	18,4	III	2	K=H	1	—	4.5	36.8	3.3	11.7
	9,6	19,4	II	2	K=H	1	—	4.8	38.8	3.0	9.7
?	9,7	23,3	II	2	K=H	1	perm.	4.8	46.6	3.0	1.9
	8,6	10,0	I	5	K=H	1	—	4.3	20.0	3.5	28.5
	8,3	14,9	III	2	K=H	1	—	4.2	29.8	3.6	18.7
?	8,7	16,0	III	3	K=1,2H	3	F Bright perm.	4.4	32.0	3.4	16.5
	8,5	16,8	III	2	K=H	1	—	4.2	33.6	3.6	14.9
	8,4	17,0	III	1	N	1	—	4.2	34.0	3.6	14.5
	8,3	17,5	I	10	K=1,2H	4	F	4.2	35.0	3.6	13.5
	8,3	18,3	II	2	K=H	2	—	4.2	36.6	3.6	11.9
	8,0	20,1	III	2	K=H	2	—	4.0	40.2	3.8	8.3
	8,8	21,6	III	2	K=H	1	—	4.4	43.2	3.4	5.3
	7,8	14,6	I	5	N	1	—	3.9	29.2	3.9	19.3
	7,6	17,7	III	2	K=H	2	—	3.8	35.4	4.0	13.1
	7,0	17,9	III	2	K=H	1	—	3.5	35.8	4.3	12.7
	7,8	18,2	III	2	K=H	1	—	3.9	36.4	3.9	12.1
	7,8	23,3	III	3	K=H	2	F	3.9	46.6	3.9	1.9
	7,6	23,8	I	5	K=1,8H	1	—	3.8	47.6	4.0	0.9
?	6,9	6,4	III	2	K=2,0H?	3	Bright perm.	3.4	12.8	4.4	35.7
	6,8	10,9	I	10	K=1,2H?	4	F	3.4	21,8	4.4	26.7
	6,4	13,3	II	2	K=H	1	—	3.2	26,6	4.6	21.9

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No.	R.A.		Dec.		Mag.	H.	V.
2661	13	14.0	+2	20	9.0	48.2	7.7
2660	13	12.7	+3	23	8.4	48.3	7.8
2637	13	3.5	+2	30	8.2	48.3	7.7
2705	13	33.1	+2	54	8.3	48.5	7.7
2802	13	31.1	+3	4	9.0	48.5	7.7
2798	13	30.4	+3	7	7.0	486	7.7
2680	13	20.9	+2	59	7.7	48.5	7.8
2755	13	11.5	+3	18	8.5	48.3	7.8
2654	13	9.5	+3	57	8.8	48.3	7.8
2632	13	1.6	+2	56	8.3	48.2	7.7
2795	13	28.6	+3	26	8.5	48.6	7.7
2772	13	18.8	+3	39	9.0	48.6	7.8
2	13		+				
2762	13	14.7	+3	32	8.0	48.3	7.7
2761	13	14.3	+3	37	8.0	48.3	7.8
2758	13	13.3	+3	43	7.0	48.3	7.9
2757	13	11.8	+3	40	8.5	48.4	7.9
2748	13	8.2	+3	49	7.7	48.4	7.8
2742	13	5.0	+3	27	8.3	48.3	7.8
2773	13	19.4	+3	54	9.0	48.6	7.8
2728	13	12.9	+4	2	7.5	48.3	7.8
	13		+				
2756	13	11.8	+3	54	8.7	48.3	7.8
2739	13	1.8	+3	55	7.7	48.4	7.8
2695	13	0.6	+4	3	8.3	48.2	7.8
775	13	35.8	+4	17	5.7	48.6	7.7
2764	13	26.8	+4	24	5.0	48.6	7.8
2751	13	21.9	+4	37	8.2	48.5	7.8

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June 6, 1887.

Plate 1387.

V	H	Type	No. lines	K	Focus	Other lines	V	H	V.	H.
6,6	14,9	III	1	N	1	—	3.3	29.8	4.5	18.7
6,8	18,3	III	2	K=H	2	—	3.4	36,6	4.4	11.9
6,8	18,4	I	9	K=,2H	3	F.	3.4	36,8	4.4	11.7
6,6	18,7	III	1	N	1	—	3.3	37.4	4.5	11.1
6,2	19,8	III	3	K=H	1	F.	3,1	39.6	4.7	8.9
6,0	21,5	I?	7	K=H	2	F.	3.0	43.0	4.8	5.5
6,2	24,1	III	2	K=H	1	—	3.1	48.2	4.7	0.3
5,1	9,3	III	2	K=H	1	—	2.6	18.6	5.2	28.9
5,6	12,0	III	2	K=H	1	—	2.8	24.0	5.0	24.5
5,1	13,5	III	2	K=H	1	—	2.6	27.0	5.2	21.5
5,4	15,5	III	2	K=H	1	—	2.7	31.0	5.1	17.5
5,9	17,4	III	2	K=H	1	—	3.0 ~~2.4~~	34.8 ~~35,4~~	4.8 ~~5.4~~	13.7 ~~13.1~~
5,0	20,3	III	2	K=H	1	—	2.5	40.6	5,3	7.9
4,5	9,1	III	1	N	1	F.	2,2	14.2	5.6	34.3
4,2	10,6	III	2	K=H	1	—	2.1	21,2	5.7	27.3
4,5	17,6	I	9	K=,5H	2	F.	2.2	35,2	5,6	13.3
4,8	19,8	III	2	K=H	1	—	2.4	39,6	5.4	8.9
3,9	16,8	II	10	K=,2H	3	F.	2.0	33,6	5.8	14.9
3,2	18,1	II	2	K=H	1	—	1.6	36,2	6.3	12,3
? 3,3	19,0	III	3	K=H	3	F. Bright plate	1.6	38.0	6.2	80.5
3,6	23,4	III	2	K=H	2	—	1.8	46.8	6.0	1.7
2,9	8,5	I	5	K=H	1	—	1.4	17.0	6.4	31.5
2,8	10,8	I	3	N	1	—	1.4	21,6	6.4	26.9
2,4	11,4	III	3	K=H	2	F.	1.2	22,8	6.6	25.7
2,0	13,0	III	2	K=H	2	—	1.0	26.0	6.8	22,5
2,7	14,7	III	2	K=H	1	—	1.4	29.4	6.4	19.1

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No.	R.A.		Dec.		Mag.	M. V.	
	13		+				
2723	13	11.8	+4	29	7.7	48.4	7.9
2721	13	11.5	+4	27	6.7	48.3	7.8
2719	13	11.0	+4	30	8.4	48.4	7.8
2712	13	8.7	+4	44	8.0	48.3	7.8
2703	13	5.3	+4	49	7.7	48.3	7.8
2693	13	0.1	+4	44	7.8	48.3	7.8
2774	13	30.0	+5	9	8.4	48.6	7.8
2757	13	24.1	+5	2	8.7	48.1	7.8
2755	13	24.6	+4	57	8.5	48.6	7.8
2749	13	21.7	+5	13	8.5	48.7	7.8
2742	13	17.4	+5	10	7.7	48.4	7.9
2729	13	13.5	+4	53	8.5	48.3	7.9
2728	13	7.7	+5	17	7.5	48.3	7.8
2783	13	34.3	+5	32	8.2	48.7	7.7
2769	13	27.5	+5	39	8.0	48.7	7.7
2736	13	13.3	+5	36	7.3	48.5	7.8
2730	13	8.7	+5	25	8.3	48.3	7.8
2737	13	14.9	+5	55	6.5	48.5	7.9
2727	13	12.3	+6	14	8.2	48.5	7.8
2722	13	10.3	+6	14	5.2	48.3	7.8
2697	13	1.5	+6	1	6.8	48.3	7.8
2772	13	31.7	+6	18	8.0	48.7	7.7
2761	13	27.1	+6	20	8.5	48.7	7.7
2756	13	25.9	+6	36	7.0	48.7	7.8
2750	13	22.7	+6	46	7.0	48.7	7.8
2740	13	19.1	+6	29	8.0	48.5	7.9

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June 3, 1887.

Plate 1298.

	r	H.	Type	No. lines	K	Focus	Other lines.	V	H	V.	H.
	22.8	20.0	III?	2	K=H	1	—	11.4	40.0	6.3	10.8
	21.8	12.6	III	2	K=H	1	—	10.9	25.2	6.8	23.6
	21.6	14.2	III	2	K=H	1	—	10.8	28.4	6.9	22.4
	19.3	14.2	III	2	K=H	1	—	9.6	28.4	8.1	22.4
	17.7	20.9	III	2	K=H	1	—	8.8	41.8	8.9	9.0
!	16.9	8.1	I?	4	K=H	2	perm.	8.4	16.2	9.3	34.6
	15.4	8.8	II	2	K=H	1	—	7.7	17.6	10.0	33.2
	15.0	13.9	III	1	N	1	—	7.5	27.8	10.2	23.0
	14.3	19.0	I	2	N	1	—	7.2	38.0	10.5	12.8
?	14.8	20.4	II	2	K=H	2	perm.	7.4	40.8	10.3	10.0
	13.0	6.7	III	2	K=H	1	—	6.5	13.4	11.2	37.4
	13.4	11.5	III	2	K=H	1	—	6.7	23.0	11.0	27.8
	13.6	24.1	III	1	N	1	—	6.8	48.2	10.9	2.6
	12.4	9.5	I?	6	K=H	3	F	6.2	19.0	11.5	31.8
	12.2	14.6	III	2	K=H	2	—	6.1	29.2	11.6	21.6
	11.1	21.4	III	2	K=H	1	—	5.5 6	42.8	12.1	8.0
	10.6	14.6	II	1	N	1	—	5.3	29.2	12.4	21.6
	10.0	15.4	II	1	N	1	—	5.0	30.8	12.7	20.0
	10.6	22.4	III	2	K=H	1	—	5.3	44.8	12.4	6.0
	8.8	11.7	III	2	K=H	1	—	4.4	23.4	13.3	27.4
	9.0	16.6	III	2	K=H	1	—	4.5	33.2	13.2	17.6
?	6.4	15.0	III	2	K=H	3	Bright perm.	3.2	30.0	14.5	20.8
	6.6	20.1	III	2	K=H	2	—	3.3	40.2	14.4	10.6
	6.0	7.6	III	1	N	1	—	2.5	15.2	15.2	35.6
	5.4	10.3	I	6	K=√H	2	—	2.7	20.6	15.0	30.2
	5.6	12.1	II?	2	K=H	1	—	2.8	24.2	14.9	26.6
	6.1	13.0	I	4	N	1	—	2.6 3.0	26.0	15.1	24.8
	4.1	11.6	I?	3	N	1	—	2.0	23.2	15.7	27.6

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No.	R.A.		Dec.		Mag.	M.	V.	
2722	13	10.3	+6	14	5.2	50.3	17.6	
2756	13	23.9	+6	36	7.0	51.1	17.5	
2750	13	22.7	+6	46	7.0	51.1	17.6	
2635	13	22.7	+7	56	6.7	51.1	17.5	?
2690	13	8.3	+8	44	7.0	50.3	17.5	
2798	13	35.1	+9	7	6.3	51.3	17.5	
2796	13	33.8	+9	50	8.7	51.4	17.5	?
2553	13	23.4	+10	4	7.5	51.2	17.5	?
2536	13	12.4	+10	28	8.0	50.4	17.7	
2531	13	9.6	+10	11	6.0	50.4	17.6	
2599	13	38.1	+11	3	6.9	51.3	17.5	
2565	13	28.4	+10	57	7.0	51.4	17.7	
2516	13	2.0	+10	48	6.7	50.2	17.6	?
2589	13	32.4	+11	29	5.7	51.4	17.7	
2575	13	22.0	+11	35	6.4	51.2	17.7	
2572	13	7.3	+13	6	6.4	50.1	17.7	?
2598	13	22.0	+12	24	8.3	51.2	17.7	
2596	13	21.8	+12	29	8.5	51.0	17.8	or 2597 ?
2595	13	20.2	+12	49	8.7	51.0	17.8	
2594	13	19.8	+12	40	7.7	50.6	17.7	?
2565	13	5.4	+13	20	6.0	50.2	17.6	
2683	13	27.9	+13	16	6.7	51.3	17.7	
2663	13	17.3	+13	12	6.5	50.5	17.7	
2621	13	21.3	+14	34	5.5	51.3	17.8	
2591	13	10.1	+14	26	5.5	50.3	17.7	
2614	13	36.6	+15	6	7.1	51.8	17.6	
2502	13	31.0	+15	2	6.9	51.6	17.7	X
2636	13	27.2	+14	52	7.6	51.4	17.7	X
2635	13	27.2	+14	60	8.0	51.4	17.8	?
2591	13	25.5	+15	8	7.6	51.5	17.7	
2597	13	28.3	+15	39	7.3	51.5	17.6	

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Plate 1298.

		Type	No. lines	K	Focus	Other lines.		V	H	V.	H.
	2,5	15,0	III	2	K=H	1	—	1.2	30.0	16.5	20.8
	2,8	16,0	III	1	N	1	—	1.4	32.0	16.3	18.8
	2,8	18,7	III	1	N	1	—	1.4	37.4	16.3	13.4

Plate 1337.

	21,4	11,1	II	7	K=,2H	3	—	10.7	22.2	1.9	49.0
	20,5	8,5	II	8	N	5	F.	10.2	17.0	2.4	54.2
	20,8	9,9	III	2	K=H	2	—	10.4	19.8	2.2	51.4
	20,4	11,5	II	4	N	1	—	10.2	23.0	2.4	47.2
	19,0	7,0	III	3	K=H	1	F.	9.5	14.0	3.1	57.2
	18,7	20,3	III	2	K=H	1	—	9.4 / 8.8	40.6	3.2	30.6
	17,6	11,0	II	5	K=,5H	2	—	8.8	22.0	3.8	49.2
	16,5	7,9	III	2	K=H	1	—	8.2	15.8	4.4	55.4
?	16,6	17,6	III	2	K=H	3	Bright spec.	8.3	35.2	4.3	35.0
	16,2	22,0	II	8	N	4	F.	8.1	44.0	4.5	27.2
	15,1	8,5	III	2	K=H	1	—	7.6	17.0	5.0	54.2
	14,4	14,7	III	1	N	1	—	7.2	29.4	5.4	41.8
	14,0	18,2	III	1	N	1	—	7.0	36.4	5.6	34.8
?	13,8	7,4	II?	4	K=H	3	poor.	6.9	14.8	5.7	56.4
	13,4	10,4	III	2	K=H	1	—	6.7	20.8	5.9	50.4
	13,1	11,1	II	1	N	1	—	6.6	22.2	6.0	49.0
	13,4	16,1	II	2	K=H	1	—	6.7	32.2	5.9	39.0
	12,8	14,1	III	2	K=H	2	Bright spec.	6.4	28.2	6.2	43.0
	12,4	19,6	II	3	N	1	—	6.2	39.2	6.4	32.0
	11,0	14,6	II	6	K=,2H	2	—	5.5	29.2	7.1	42.0
?	11,0	15,6	II	2	K=H	2	poor.	5.5 / 5	31.2	7.1	40.0
	11,8	22,5	II	2	K=H	1	—	5.9 / 4.8	45.0 / 4	6.7	26.2
	9,6	6,1	III	2	K=H	1	—	4.8	12.2	7.8	59.0

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No.	R.A.	Dec.	Mag.	M.	V.	
2513	13 21.4	+16 28	8.0	71.4	17.7	?
2508	13 18.6	+16 20	6.5	70.6	17.8	
2493	13 13.1	+16 20	7.0	70.5	17.7	
2865	13 49.1	+1 46	5.8	71.3	12.5	
2761	13 54.3	+2 15	4.2	71.3	12.4	
	13	+				
	13	+				
2768	13 57.3	+2 60	6.7	71.3	12.5	?
2799	13 30.4	+3 7	7.0	71.0	12.5	
2834	13 49.4	+3 42	7.2	71.4	12.5	
2817	13 55.5	+4 18	7.8	71.3	12.4	
2775	13 35.8	+4 17	5.7	71.0	12.6	
2764	13 26.8	+4 24	5.0	70.8	12.5	
2816	13 54.3	+4 57	7.5	71.3	12.6	
2801	13 42.0	+5 16	8.3	71.4	12.5	
2786	13 35.1	+5 44	8.9	71.5	12.7	?
2783	13 34.5	+5 32	8.2	70.9	12.5	
2836	13 56.7	+5 36	6.5	71.5	12.5	
2820	13 50.7	+5 49	7.8	71.5	12.5	
2815	13 49.1	+5 59	8.0	71.3	12.6	
2794	13 38.9	+5 50	7.3	71.1	12.5	
2800	13 43.1	+6 13	6.4	71.3	12.6	
2772	13 31.7	+6 18	8.0	70.9	12.5	
2701	13 42.2	+7 4	6.8	71.4	12.6	
2690	13 39.8	+7 5	6.5	71.0	12.6	
2756	13 25.9	+6 36	7.0	70.9	12.5	
2746	13 59.2	+7 42	7.5	71.4	12.5	

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Plate 1337.

	Y	H	Type	No. Lines	K	Focus	Other Lines.	V.	H.	V.	H.
	9.5	7.0	I	4	K=H	1	—	4.8	14.0	7.8	57.2
	8.6	7.5	III	3	K=H	2	F,	4.3	15.0	8.3	56.2
	7.0	13.5	I	3	N	1	—	3.5	27.0	9.1	44.2
	7.0	14.4	I	7	K=2H	2	—	3.5	28.8	9.1	42.4
	7.8	15.0	II	6	K=H	2	—	3.9	30.0	8.7	41.2
?	7.0	17.9	II?	3	K=H	2	F, pecu.	3.5	35.8	9.1	35.4
	6.0	8.6	I	7	K=2H	3	F,	3.0	17.2	9.6	54.0
	5.6	16.4	II	2	K=H	1	—	2.8	32.8	9.8	38.4
	5.5	18.5	I	3	N	1	—	2.8	37.0	9.8	34.2
	4.4	8.0	II	2	K=2.0H?	1	—	2.2	16.0	10.4	53.2
	3.4	12.3	II	2	K=H	1	—	1.7	24.6	10.9	46.6
	3.5	13.3	III	1	N	1	—	1.8	26.6	10.8	44.6
	3.1	16.4	III	2	K=H	1	—	1.6	32.8	11.0	38.6
	3.4	21.2	III	2	K=H	1	—	1.7	42.4	10.9	28.8
	2.1	7.5	II	2	K=H	1	—	1.0	15.0	11.6	56.2
	2.4	19.2	I	7	K=1.8H	3	F,	1.2	38.4	11.4	32.8

Plate 1350.

	22.0	7.2	II	2	K=H	1	—	11.0	14.4	11.7	55.8
	22.3	18.8	I	6	K=H	2	—	11.2	37.6	11.5	32.6
	19.6	12.8	I	7	K=1.2H	2	—	9.8	25.6	12.9	44.6
?	20.0	13.0	II	2	K=H	1	pecu.	10.0	26.0	12.7	44.2
	18.4	12.3	I	4	N	1	—	9.2	24.6	13.5	45.6
	18.5	21.0	III	1	N	1	—	9.4	42.0	13.3	28.2
	17.6	14.0	I	4	?	2	—	8.8	28.0	13.9	42.2
?	17.9	14.1	II	2	K=H	1	pecu.	9.0	28.2	13.7	42.0
?	15.8	11.1	II	2	K=H	2	pecu.	7.9	22.2	14.8	48.0
	15.1	16.8	II	2	K=H	1	—	7.6	33.6	15.1	36.6

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No.	R.A.	Dec.	Mag.	H.	V.	
2741	13 57.5	+7 42	8.0	71.3	12.5	
2810	13 56.4	+8 14	7.0	71.4	12.5	
2816	13 44.3	+9 4	8.2	71.3	12.6	
2814	13 42.6	+9 9	6.9	71.4	12.7	
2767	13 41.3	+8 42	7.5	71.3	12.6	?
2798	13 35.1	+9 7	6.5	70.9	12.6	
2835	13 54.2	+9 36	6.0	71.4	12.6	
2804	13 38.2	+9 47	8.2	71.0	12.6	
2796	13 33.8	+9 50	8.7	70.8	12.6	
2617	13 55.4	+10 24	6.6	71.4	12.6	?
2604	13 46.8	+10 58	8.2	71.4	12.7	?
2600	13 44.7	+10 52	7.0	71.3	12.7	
2599	13 38.1	+11 3	6.9	70.9	12.6	
2565	13 28.4	+10 57	7.0	70.8	12.7	
2625	13 56.4	+11 30	7.0	71.4	12.5	
2589	13 32.4	+11 29	5.7	70.8	12.7	

2625	13 56.4	+11 30	7.0	70.8	22.5	x
2589	13 32.4	+11 29	5.7	70.0	22.7	?
2635	13 45.2	+12 53	6.8	70.8	22.7	
2634	13 44.8	+12 40	7.5	70.8	22.7	
2720	13 46.2	+13 28	7.5	70.8	22.7	
2683	13 27.9	+13 16	6.7	69.9	22.7	
2715	13 42.8	+13 55	7.1	70.8	22.7	
2714	13 42.6	+13 44	7.0	70.8	22.7	
2680	13 48.9	+14 47	6.7	71.1	22.7	
2614	13 36.6	+15 6	7.1	70.2	22.7	

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Plate 1350.

	T	H	Type	No. Lines	K	Focus	Other Lines.	V.	H.	V.	H.
	15.4	19.5	II	6	K=.5H	1	—	7.7	39.0	15.0	31.2
	15.0	22.1	I	4	K=H	1	—	7.5	44.2	15.2	26.0
	16.0	24.2	III	2	K=2.0H	2	—	8.0	48.4	14.7	21.8
	14.0	7.6	II	1	N	1	—	7.0	15.2	15.7	55.0
	14.7	9.7	III	1	N	1	—	7.4	19.4	15.3	50.8
	12.2	10.7	III	2	K=H	1	—	6.1	21.4	16.6	48.8
?	12.5	14.2	III	2	K=H	3	Bright pair.	6.2	28.4	16.5	41.8
	11.1	10.0	I	4	N	1	—	5.6	20.0	17.1	50.2
	11.6	10.1	I	4	N	1	—	5.8	20.2	16.9	50.0
?	9.2	15.0	II	3	K=1.2H	4	F. pair.	4.6	30.0	18.1	40.2
	8.7	8.3	III	1	N	1	—	4.4	16.6	18.3	53.6
	8.3	12.3	III	2	K=H	2	—	4.2	24.6	18.5	45.6
?	7.4	11.6	II	2	K=2.0H	5	F. Bright?	3.7	23.2	19.0	47.6
	7.6	18.9	III	2	K=H	1	—	3.8	37.8	18.9	32.4
	6.8	13.8	I	5	K=H	1	—	3.4	27.6	19.3	42.6
12	0	4.2	18.0	I	8	K=.2H	3	—	2.1	36.0	20.6	34.2

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No.	R. A.	Dec.	Mag.	M.	V.
2602	13 31.0	+ 15 2	6.9	70.0	22.7
2591	13 25.5	+ 15 8	7.6	69.7	22.6
2621	13 21.3	+ 14 34	5.5	69.7	22.6
2658	13 56.0	+ 13 41	7.0	71.2	22.7
2651	13 51.7	+ 13 22	6.7	71.1	22.8
2583	13 49.6	+ 16 37	7.2	71.0	22.7
2564	13 42.5	+ 16 32	4.2	70.9	22.7
2687	13 51.1	+ 17 7	7.3	71.1	22.7
2588	13 50.9	+ 16 55	7.7	71.1	22.7
2782	13 40.4	+ 18 11	4.6	70.4	22.8
2813	13 54.7	+ 18 23	6.8	71.3	22.8
2795	13 46.3	+ 18 39	6.5	70.9	22.8
2725	13 47.8	+ 19 8	3.2	71.0	22.8
2697	13 32.1	+ 19 1	6.5	69.9	22.8
2719	13 43.2	+ 19 21	7.2	70.8	22.8
2858	13 33.7	+ 20 41	5.5	69.7	22.8

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Plate 1266.

	V	H	Type	No. Lines	K	Focus	Other Lines	V.	H.	V.	H.
10	0	22.1	14.1	I	6	K=1.2H	2	—	11.0	28.2	6.9	41.6
		21.0	7.4	III	2	K=H	1	—	10.5	14.8	7.4	35.0
		21.0	8.6	II	2	K=H	1	—	10.5	17.2	7.4	32.6
		21.9	21.1	II	2	K=H	1	—	11.0	42.2	6.9	27.6
		20.4	13.2	III	3	K=H	1	F.	10.2	26.4	7.7	43.4
		20.1	12.2	II	2	K=H	1	—	10.0	24.4	7.9	45.4
		19.4	7.2	II	2	K=H	1	—	9.7	14.4	8.2	55.4
	?	19.1	7.6	III	2	K=H	2	Bright pleur.	9.6	15.6	8.3	54.2
		19.2	12.8	II	2	K=H	1	—	9.6	25.6	8.3	44.2
		19.8	23.7	I	6	K=.5H	4	F.	9.9	47.4	8.0	22.4
		21.5	24.1	I	5	N	2	—	10.8	48.2	7.1	21.6
		18.6	11.8	III	2	K=H	3	—	9.3	23.6	8.6	46.2
		18.7	12.0	III?	2	K=H	2	—	9.4	24.0	8.5	45.8
	?	18.2	14.4	III	2	K=H	1	pleur.	9.1	28.8	8.8	41.0
		18.6	17.1	II	2	K=H	1	—	9.8	34.2	8.6	35.6
		18.3	19.2	I	4	K=H	1	—	9.2	38.4	8.7	31.4
	?	17.5	10.7	II	2	K=H	1	pleur.	8.8	21.4	9.1	48.4
		17.2	11.4	II	2	K=H	1	—	8.6	22.8	9.3	47.0
		17.7	17.8	II	2	K=H	2	F?	8.8	35.6	9.1	34.2
		16.7	6.6	I	5	N	2	—	8.4	13.2	9.5	56.6
	?	16.5	10.4	II?	2	K=H	1	pleur.	8.2	20.8	9.5	49.0
		15.7	7.1	I	7	K=1.2H	3	—	7.8	14.2	0.1	55.6
	?	15.5	23.3	I	5	?	4	F. pleur.	7.8	46.6	0.1	23.2
		14.2	6.7	II	2	K=H	1	—	7.1	13.4	0.8	56.4
		14.3	6.9	III	2	K=H	2	—	7.2	13.8	0.7	56.0
		14.4	7.5	II	2	K=H	1	—	7.2	15.0	0.7	54.8
		14.1	8.2	I	6	N	2	—	7.0	16.4	0.9	53.4
	?	14.8	10.2	II	3	K=H	2	pleur.	7.4	20.4	0.5	49.4

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No.	R. A.	Dec.	Mag.	M.	V.
2999	10 41.9	−3 16	6.7	70.1	17.7
3270	10 55.2	−2 44	6.7	70.0	17.8
3264	10 52.6	−2 42	7.3	69.8	17.8
3950	10 27.5	−3 9	7.0	69.7	17.8
3236	10 43.7	−2 19	6.0	70.1	17.9
3241	10 45.6	−2 17	8.3	70.0	17.7
2473	10 55.6	−1 51	8.2	70.0	17.9
2471	10 54.4	−1 42	5.2	70.0	17.9
2454	10 44.3	−1 50	8.5		
2455	10 44.3	−1 42	8.7	69.9	17.9
~~2355~~	~~10 22.1~~	~~−2 0~~	~~6.0~~		
2395	10 22.1	−1 60	5.0	69.5	17.9
2355	10 22.1	−2 0	6.0	70.3	18.8
2460	10 46.4	−1 22	5.7	70.0	17.9
2459	10 46.1	−1 29	6.7	70.1	17.9
2446	10 41.3	−1 12	6.5	70.1	17.9
2431	10 35.4	−1 25	7.5	69.6	17.9
2417	10 31.2	−1 18	8.2	69.6	17.9
2391	10 48.7	−0 51	8.2	70.1	17.6
2388	10 47.9	−0 38	8.5		
2384	10 47.1	−0 45	8.3	69.9	17.8
2364	10 34.0	−0 39	6.5	69.6	17.8
2401	10 56.9	−0 30	8.0	70.1	17.9
2392	10 49.3	−0 23	8.2	70.1	17.8
2728	10 55.8	+0 2	7.5	70.1	7.8
2663	10 22.9	+0 6	5.3	69.5	7.9
2730	10 56.6	+0 45	8.5	70.0	7.9
2729	10 56.2	+0 48	6.5	70.0	8.0
2726	10 55.1	+0 42	8.5	70.1	7.9
2725	10 53.7	+0 50	8.0	70.1	7.8
2718	10 49.7	+0 28	7.5	70.1	7.9

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Plate 1266.

	V	H	Type	No. lines	K	Focus	Other lines.	V.	H.	V.	H.
	14.8	10.4	II	2	K=H	1	—	7.4	20.8	0.5	49.0
	14.6	12.4	III	2	K=H	1	—	7.3	24.8	0.6	45.0
	14.7	17.7	II	2	K=H	1	—	7.4	33.4	0.5	34.4
?	14.7	17.9	II	2	K=H	1	perc.	7.4	33.8	0.5	34.0
	14.4	8.5	I	5	K=.5H	1	—	7.2	17.0	0.7	52.8
	13.4	10.7	III	2	K=H	1	—	6.7	21.4	1.2	48.4
	13.9	10.9	I	5	K=.5H	1	—	7.0	21.8	0.9	48.0
?	12.8	10.9	II	4	K=H	3	? perc.	6.4	21.8	1.5	48.0
	12.3	12.6	I	7	K=.2H	3	—	6.2	25.2	1.7	44.6
	12.6	13.2	I	4	H	1	—	6.3	26.4	1.6	43.4
	12.5	17.3	III	1	H	1	—	6.2	34.6	1.7	35.2
	11.8	19.4	III	2	K=H	1	—	5.9	38.8	2.0	31.0
	11.1	23.7	II	2	K=H	1	—	5.6	47.4	2.3	22.4
	10.8	9.3	III	1	H	1	—	5.4	18.6	2.5	51.2
	10.1	12.3	III	1	H	1	—	5.0	24.6	2.9	45.2
	10.6	16.1	II	2	K=H	1	—	5.3	32.2	2.6	37.6
	10.5	16.8	II	2	K=H	1	—	5.2	33.6	2.7	36.2
	10.0	16.8	II	2	K=H	1	—	5.0	33.6	2.9	36.2
	10.0	20.9	III	2	K=H	1	—	5.0	41.8	2.9	28.0
	10.8	21.2	II	2	K=H	1	—	5.4	42.4	2.5	27.4
	9.9	23.2	II?	2	K=H	1	—	5.0	46.4	2.9	23.4
	9.8	7.6	I	5	K=H	1	—	4.9	15.2	3.0	54.6
	9.4	14.5	II	2	K=H	1	—	4.7	29.0	3.2	40.8
?	9.2	14.6	II	2	K=H	1	perc.	4.6	29.2	3.3	40.6
	9.2	15.0	III	1	H	1	—	4.6	30.0	3.3	39.8
?	9.4	15.9	III	2	K=1.2H	2	perc.	4.7	31.8	3.2	38.0
	8.6	22.7	III	2	K=H	1	—	4.3	45.4	3.6	24.4
	9.0	24.0	I	4	K=H	1	—	4.5	48.0	3.4	21.8

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1887phae.proj...840F

No.	R.A.		Dec.		Mag.	m.	v.
	10		+				see page before - X
2710	10	45.2	+ 0	35	6.5	70.0	7.9
2694	10	34.2	+ 0	29	8.2	69.6	7.9
2693	10	33.8	+ 0	30	7.9	69.6	7.9
	10		+				
2502	10	48.7	+ 1	12	8.0	70.1	7.9
2715	10	48.2	+ 0	54	8.1	70.0	7.9
2501	10	48.2	+ 1	26	6.2	70.0	7.8
2495	10	44.8	+ 1	47	6.9	70.0	8.0
2490	10	43.7	+ 1	32	8.2	70.1	7.8
2471	10	34.9	+ 1	37	7.5	69.5	7.8
2343	10	30.8	+ 2	0	8.1	69.6	7.9
2323	10	22.3	+ 2	15	7.5	69.7	7.9
2373	10	51.3	+ 2	30	8.0	69.9	7.9
2367	10	45.3	+ 2	32	8.0	69.9	7.9
2353	10	37.3	+ 2	36	8.3	69.5	7.9
2351	10	35.9	+ 2	41	8.5	69.5	7.9
2351	10	36.0	+ 2	36	8.5	69.6	7.9
2334	10	27.6	+ 2	37	7.0	69.4	8.0
2333	10	27.1	+ 2	32	7.8	69.5	7.9
2325	10	23.0	+ 2	54	7.5	69.4	7.9
2378	10	54.8	+ 2	39	8.2	70.0	7.9
2418	10	40.9	+ 3	15	8.7	69.9	7.9
2417	10	40.7	+ 3	19	8.7	69.9	7.9
2412	11	40.0	+ 3	16	8.2	70.0	7.9
2408	10	37.7	+ 3	14	6.5	69.5	7.9
2379	10	24.1	+ 3	36	7.5	69.5	7.9
2371	10	21.5	+ 3	23	7.7	69.5	7.9

Look up - X

Look up - X

Look up - X

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1887phae.proj..840F

June 8, 1887.

Plate 1266.

	r	H	Type	No. Lines	K	Focus	Other lines.	r.	H.	r.	H.
?	7.1	8.4	III	2	K=1.2H?	3	Bright perm.	3.6	16.8	4.3	53.0
	7.0	6.7	I	5	K=H	1	—	3.5	13.4	4.4	56.4
	7.1	13.3	I	7	K=1.2H	2	—	3.6	26.6	4.3	43.2
	7.5	14.0	I	6	K=.5H	1	—	3.8	28.0	4.1	41.8
?	7.7	16.0	III	2	K=H	2	perm.	3.8	32.0	4.1	37.8
?	7.2	17.2	III	3	K=H	2	F. perm.	3.6	34.4	4.3	35.4
	6.9	11.8	III	2	K=H	1	—	3.4	23.6	4.5	46.2
	5.8	16.8	I	5	K=.5H	1	—	2.9	33.6	5.0	36.2
	4.4	12.2	III	2	K=H	1	—	2.2	24.4	5.7	45.4
	5.0	15.2	III	2	K=H	1	—	2.5	30.4	5.4	39.4
?	4.9	16.8	III	2	K=H	2	perm.	2.4	33.6	5.5	36.2
	3.7	10.5	I	5	N	1	—	1.8	21.0	6.1	48.8
	3.6	15.7	I	5	K=H	1	—	1.8	31.4	6.1	38.4
	3.6	23.0	I	4	N	1	—	1.8	46.0	6.1	23.8
	2.6	11.4	III	2	K=H	1	—	1.3	22.8	6.6	47.0
?	2.9	19.2	III	2	K=H	1	perm	1.4	38.4	6.5	31.4
	2.5	19.3	I	3	N	1	—	1.2	38.6	6.7	31.2

Plate 1416

											Correc.
	22.0	16.1	I	2	K=H	1	—	11.0	32.2	31.7	39.9 - 0.4
	21.6	15.1	III	2	K=H	1	—	10.8	30.2	31.9	41.9 - 0
	21.8	18.7	III	2	K=H	1	—	10.9	37.4	31.8	34.7 - 1.1
	20.0	12.0	I	7	K=H	2	F.	10.0	24.0	32.7	48.1 + 0.9
?	15.4	13.8	III	2	N	2	Bright perm.	7.7	27.6	35.0	44.5 + 0.4
	14.8	14.1	III	1	N	1	—	7.4	28.2	35.3	43.9 + 0.3
	14.6	14.1	I	6	K=1.2H	2	—	7.3	28.2	35.4	43.9 + 0.3
	14.0	17.4	III?	2	K=H	2	—	7.0	34.8	35.7	37.3 - 0.9
	14.0	21.5	I	4	K=.5H	1	—	7.0	43.0	35.7	29.1 - 2.4

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1887phae.proj...849F

No.	R.A.		Dec.		Mag.	Th.	r.	H'	
2407	10	53.1	+4	24	4.3	69.9	8.0		
2415	10	56.5	+4	26	7.3	69.9	7.9		Tooke 4/X
2388	10	43.5	+4	22	7.3	70.1	8.0		
2385	10	41.9	+4	12	8.0	69.9	8.0		
2378	10	37.5	+4	4	7.5	69.5	7.9		
2375	10	35.2	+4	20	7.7	69.6	7.9		
2394	10	46.4	+4	29	8.2	70.0	7.9		
2385	10	35.9	+5	3	8.5	69.5	7.9		?
2386	10	36.1	+5	0	8.6	69.7	7.9		
2412	10	45.1	+5	46	7.3	69.5	8.0		?
2415	10	45.6	+5	44	7.7	70.0	7.9		
2394	10	39.1	+5	25	8.0	69.5	7.9		
2384	10	35.8	+5	31	6.2	69.4	7.9		
2370	10	49.0	+6	2	7.8	70.0	7.8		
2347	10	38.2	+6	8	8.2	69.6	7.9		
2316	10	23.5	+6	6	8.1	69.5	7.9		
2368	10	47.2	+6	37	8.0	70.0	7.9		
2328	10	31.2	+6	29	7.7	69.6	7.9		
2326	10	30.9	+6	41	7.7	69.5	7.9		

Corr.									
0.4	2540	13	39.7	+31	36	6.3	71.9	42.6	72.3
0	2547	13	42.1	+31	55	5.5	72.3	42.7	72.3
1.1	2526	13	33.7	+31	45	6.0	71.1	42.7	72.2
0.9	2411	13	49.8	+32	44	6.5	73.8	42.7	72.9
0.4	2496	13	45.4	+35	10	5.7	73.1	42.9	72.6
0.3	2492	13	44.7	+35	30	6.8	72.9	42.9	72.6
-0.3	2493	13	44.7	+35	24	5.8	72.9	42.7	72.6
-0.9	2474	13	36.2	+35	44	6.5	71.0	42.7	71.9
-2.4	2462	13	26.3	+35	39	6.7	69.3	42.6	71.7

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1887phae.proj..840f

June 8, 1887.

Plate 1416.

V	H	Type	No. Lines	K	Focus	Other lines.	V.	H.	V.	H.	Correc.
11,8	9,5	II	1	N	1	—	5.9	19.0	36.8	52.1	+ 2.2
11,5	19,4	II	9	K=1,5H	4	F.	5.8	39.8	36.9	32.3	- 1.9
10,8	14,6	II	5	K=1,2H	2	—	5.4	29.2	37.3	42.9	+ 0.2
10,2	21,4	III	2	K=H	1	—	5.1	42.8	37.6	29.3	- 2.7
9,9	12,6	III	2	K=H	1	—	5.0	25.2	37.7	46.9	+ 1.0
?	9,6	20,6	II	5	K=H	4	F, perm.	4.8	41.2	37.9	30.9	-2.4
?	7,1	15,5	III	2	K=H	2	Bright perm.	3.6	31.0	39.1	41.1	- 0.3
?	7,2	15,7	III	2	K=H	1	perm.	3.6	31.4	39.1	40.7	- 0.4
6,4	20,4	II	6	K=1,8H	2	F.	3.2	40.8	39.5	31.3	- 2.5
2,0	15,7	II	5	K=1,5H	2	F?	1.0	31.4	41.7	40.7	- 0.4

Plate 1410

?	21,0	19,6	III	2	K=H	1	perm.	10.5	39.2	7.3	52.5
	20,4	11,4	II	6	N	2	—	10.2	22.8	7.6	68.9
	19,8	13,4	II	2	K=H	1	—	9.9	26.8	7.9	64.9
	18,5	5,5	III	3	K=2,5H?	3	F.	9.2	11.0	8.6	80.7
	18,0	8,6	II	5	K=1,5H	1	—	9.0	17.2	8.8	74.5
?	18,6	9,8	III	2	K=H	2	Bright perm.	9.3	19.6	8.5	72.1
?	17,0	22,1	III	2	K=H	2	Bright perm.	8.5	44.2	9.3	47.5
	15,4	8,2	II	5	N	2	—	7.7	16.4	0.1	75.3
?	15,8	12,8	II	2	K=H	3	perm.	7.9	25.6	9.9	66.1
	13,8	9,3	III	1	N	1	—	6.9	18.6	0.9	73.1
	13,4	9,7	II	6	K=1,2H	3	—	6.7	19.4	1.1	72.3
	12,1	6,6	II	5	N	1	—	6.0	13.2	1.8	78.5
	12,5	14,2	II	5	K=1,5H	2	—	6.2	28.4	1.6	63.3
	11,6	7,9	III	2	K=H	2	—	5.8	15.8	2.0	75.9
?	11,4	13,6	II	2	K=H	2	perm.	5.7	27.2	2.1	64.5
	11,1	18,6	II	11	K=1,2H	5	F.	5.6	37.2	2.2	54.5

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1887phae.proj...842F

No	R.A.		Dec.		Mag.	H.	V.	H'	
2435	13	55.4	+36	56	7.0	74.4	42.8	72.2	?
2433	13	31.0	+37	2	5.3	70.8	42.8	72.7	
2457	13	43.4	+37	20	6.5	72.6	42.7	72.4	
2421	13	25.9	+37	33	6.5	68.7	42.7	71.4	
2467	13	48.4	+37	48	7.0	73.6	42.8	72.6	?
2426	13	28.3	+37	56	5.1	69.5	42.7	71.9	
2680	13	40.8	+39	18	5.5	71.8	42.9	72.1	
2678	13	40.0	+39	14	6.0	71.4	42.8	71.8	
2658	13	28.0	+39	33	6.2	68.8	42.8	71.3	
2424	13	40.1	+41	49	5.7	71.5	42.8	71.9	
3768	13	52.3	−2	50	6.4	91.5	17.7		
2812	14	9.0	−2	31	6.4	31.8	17.7		
3808	14	5.0	−2	17	8.0	31.8	17.6		?
2957	14	20.7	−2	35	5.0	31.7	17.6		
2943	14	14.6	−1	19	6.7	31.7	17.7		
2938	14	12.1	−1	35	5.0	31.7	17.7		
2758	13	47.3	−0	48	6.2	91.5	17.7		
3171	14	15.4	+0	2	7.0	31.8	7.7		
3796	14	6.2	−0	9	6.2	31.8	17.7		
3165	14	13.1	+0	51	7.0	31.7	7.7		
2913	14	12.3	+1	3	6.3	31.7	7.7		
2933	14	19.6	+1	46	8.2				?
2927	14	18.6	+1	39	7.0	31.8	7.6		
2895	14	3.4	+1	30	7.0	31.8	7.7		
2920	14	15.9	+1	56	6.5	31.7	7.7		
2783	14	4.2	+2	3	6.6	31.4	7.7		
2761	13	54.3	+2	15	4.2	91.5	7.8		

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1887phae.proj..840f

June 8, 1887.

Plate 1410.

T	H	Type	No. lines	K	Focus	Other lines.	V.	H.	V.	H.
11.9	21.2	I	8	K=.5H	3	F.	6.0	42.4	1.8	49.3
9.4	13.4	I	9	N	4	F.	4.7	26.8	3.1	64.9
9.5	17.1	III	2	K=H	1	—	4.8	34.2	3.0	57.5
8.5	14.8	III	2	K=H	1	—	4.2	29.6	3.6	62.1
8.0	21.0	I	4	N	1	—	4.0	42.0	3.8	49.7
? 7.9	11.8	II	2	K=H	1	perm.	4.0	23.6	3.8	68.1
7.5	12.0	III	1	N	1	—	3.8	24.0	4.0	67.7
7.0	17.9	II	2	K=H	1	—	3.5	35.8	4.3	55.9
4.4	17.4	I	7	K=H	2	F.	2.2	34.8	5.6	56.9
2.6	7.3	I	6	K=.5H?	3	—	1.3	14.6	6.5	77.1

Plate 1380.

22.0	5.5	I	7	K=.2H	3	F.	11.0	11.0	6.7	76.8
22.5	22.5	III	2	K=H	1	—	11.2	45.0	6.5	42.8
20.8	22.8	I	5	K=.8H	1	—	10.4	45.6	7.3	42.2
20.8	24.0	II	2	K=H	1	—	10.4	48.0	7.3	39.8
19.0	13.0	III	1	N	1	—	9.5	26.0	8.2	61.8
18.8	15.7	III	3	K=H	2	F.	9.4	31.4	8.3	56.4
17.4	5.7	I	6	K=.5H?	2	F.	8.7	11.4	9.0	76.4
17.0	6.0	I	7	N	4	F.	8.5	12.0	9.2	75.8
17.6	23.2	I	4	K=H	1	—	8.8	46.4	8.9	41.4
16.8	15.6	II	2	K=H	1	—	8.4	31.2	9.3	56.6
16.2	16.8	I	7	K=.2H	3	F.	8.1	33.6	9.6	54.2
16.8	22.6	I	5	N	2	—	8.4	45.2	9.3	42.6
15.8	10.7	II	2	K=H	1	—	7.9	21.4	9.8	66.4
15.4	16.8	III	1	N	1	—	7.7	33.6	10.0	54.2
14.6	16.2	II	2	K=H	2	—	7.3	32.4	10.4	55.4
13.8	10.2	III	2	K=H	3	—	6.9	20.4	10.8	67.4

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1897phae.proj..849F

No.	R.A.		Dec.		Mag.	Hr.	V.
2865	13	49.1	+1	46	5.8	91.5	7.8
2867	14	4.9	+3	6	4.8	31.7	7.8
2768	13	57.3	+2	60	6.7	91.5	7.8
2859	14	2.1	+3	29	7.0	31.7	7.7
2834	13	49.4	+3	42	7.2	91.4	7.7
2874	14	8.0	+3	48	7.5	31.6	7.8
2841	14	7.6	+4	0	6.7	31.6	7.8
2817	13	55.5	+4	15	7.8	91.3	7.7
2836	13	56.7	+5	36	6.5	91.5	7.8
2875	14	17.0	+6	29	5.5	31.6	7.8

x 7.7 ?

2875	14	17.0	+6	29	5.5	28.0	17.5
	13		+				
2701	13	42.2	+7	4	6.8	87.8	17.5
2690	13	39.8	+7	5	6.5	87.8	17.9
2821	14	2.0	+8	5	7.4	28.0	17.6
2810	13	56.4	+8	14	7.0	87.8	17.6
2857	14	16.9	+8	54	7.0	28.3	17.6
2882	14	16.3	+9	6	5.0	28.3	17.6
2767	13	41.3	+8	42	7.5	87.7	17.5
2842	13	56.5	+9	11	7.9	87.7	17.6
2835	13	54.2	+9	36	6.0	87.8	17.7
2814	13	42.6	+9	9	6.9	87.8	17.6
2863	14	6.7	+9	40	8.1	28.1	17.6
2616	13	54.3	+10	0	7.1	87.9	17.7
2617	13	55.4	+10	24	6.6	87.8	17.7
2654	14	7.8	+10	48	5.3	28.2	17.7

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1887phae.proj..840F

June 8, 1887.

Plate 1380.

	V	H	Type	No. Lines	K	Focus	Other Lines.	W.	WH.	V.	H.
	13,4	12,7	II	2	K=H	1	—	6.7	25.4	11.0	62.4
	13,3	16,3	III	1	N	1	—	6.6	32.6	11.1	55.2
	13,6	18,3	III	1	N	1	—	6.8	36.6	10.9	51.2
	13,5	20,4	II	2	K=H	2	—	6.8	40.8	10.9	47.0
	13,5	21,5	III	1	N	1	—	6.8	43.0	10.9	44.8
	12,2	7,0	II	2	K=H	1	—	6.1	14.0	11.6	73.8
	12,9	8,4	I	4	K=H	1	—	6.4	16.8	11.3	71.0
?	12,4	15,7	II	2	K=H	2	perm.	6.2	31.4	11.5	56.4
	11,2	12,6	I	5	N	1	—	5.6	25.2	12.1	62.6
	11,4	15,5	III	2	K=H	1	—	5.7	31.0	12.0	56.8
	10,0	10,7	III	2	K=H	1	—	5.0	21.4	12.7	66.4
	10,0	18,5	I	5	K=H	1	—	5.0	37.0	12.7	50.8
?	10,0	21,4	II	2	K=H	1	perm.	5.0	42.8	12.7	45.0
	9,6	21,1	I	8	K=.2H?	3	F.	4.8	42.2	12.9	45.6
?	8,0	8,0	II	4	K=H	3	perm.	4.0	16.0	13.7	71.8
?	8,1	10,5	II	3	K=1-2H?	2	F, perm.	4.0	21.0	13.7	66.8
	8.4	20,6	I	4	N	1	—	4.2	41.2	13.5	46.6
	7,5	20,3	I	5	N	2	—	3.8	40.6	13.9	47.2
	7,8	22,4	II	2	K=H	1	—	3.9	44.8	13.8	43.0
	6,1	10,3	III	1	N	1	—	3.0	20.6	14.7	67.2
?	5,9	19,3	II	2	K=H	2	F, perm.	3.0	38.6	14.7	49.2
	4,7	18,0	III	2	K=H	1	—	2.4	36.0	15.3	51.8
	3,5	8,9	III	1	N	1	—	1.8	17.8	15.9	70.0
	2,8	12,7	II	2	K=H	1	—	1.4	25.4	16.3	62.4
	2,2	18,9	III	1	N	1	—	1.1	37.8	16.6	50.0
1	0 ?	2,4	22,4	III	2	K=H	3	F, Bright perm.	1.2	44.8	16.5	43.0

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No.	R. A.		Dec.		Mag.	Th.	r.	
2637	14	2.3	+ 10	57	8.0	27.7	17.7	
2638	14	2.5	+10	57	8.0	27.9	17.7	?
2621	13	55.7	+ 11	4	8.8	88.3	17.7	
2620	13	55.3	+11	1	7.4	87.9	17.6	?
2610	13	51.2	+10	51	8.3	87.8	17.6	
2603	13	46.8	+ 10	51	8.2	87.6	17.6	
2604	13	46.8	+10	58	8.2	87.6	17.8	?
2600	13	44.7	+10	52	7.0	87.7	17.7	
2667	14	14.2	+11	30	7.8	28.2	17.6	
2662	14	11.5	+11	11	7.0	28.3	17.6	
2625	13	56.4	+11	30	7.0	87.8	17.7	
2660	14	2.9	+12	4	8.0	28.1	17.7	
2628	13	56.9	+11	59	7.0	87.9	17.7	
2667	14	6.8	+12	41	6.8	28.2	17.7	
2644	13	50.7	+12	40	7.6	87.7	17.7	
2634	13	44.8	+12	40	7.5	87.6	17.7	
2635	13	45.2	+12	53	6.8	87.4	17.7	
2782	14	12.3	+13	41	5.7	28.3	17.7	
2764	14	7.1	+13	40	6.2	28.1	17.7	
2720	13	46.2	+13	28	7.5	87.4	17.7	?
2714	13	42.6	+ 13	44	7.1	87.4	17.6	
2715	13	42.8	+13	55	7.1	87.6	17.8	?
2718	14	7.7	+14	40	6.8	28.3	17.7	
2680	13	48.9	+14	47	6.7	87.5	17.8	
2651	13	51.7	+15	23	6.7	87.7	17.8	
2690	14	10.6	+15	56	6.2	28.4	17.7	
2616	14	2.7	+16	18	7.0	28.1	17.7	
2583	13	49.6	+16	37	7.2	87.4	17.7	?
2564	13	42.5	+16	32	4.2	87.3	17.7	

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Plate 1318.

	T.	H.	Type	No. Lines	K	Prec. Foll.	Other	V.	VH.	V.	H.
9 50	22.0	13.7	I	8	K=.2H	2	—	11.0	27.4	1.6	22.4 22.8
	22.8	18.5	I	7	K=.2H	2	—	11.4	37.0	1.2	12.8 13.2
	22.0	9.8	I	V	?	2	—	11.0	11.6	1.6	38.2 38.6
	21.7	15.4	I	V	N	1	—	10.8	30.8	1.8	19.0 19.4
	21.2	16.8	II	2	K=H	1	—	10.6	33.6	2.0	16.2 16.6
	21.9	23.0	I	4	?	1	—	11.0	46.0	1.6	3.0 4.2
?	20.8	22.6	II	2	K=H	1	prec.	10.4	45.2	2.2	4.6 5.0
	19.9	9.9	I	8	K=H?	V	F.	10.0	11.0	2.6	38.8 39.2
	19.9	7.0	I	4	K=.5H	1	—	10.0	14.0	2.6	35.8 36.2
	19.2	9.8	II	2	K=H	1	—	9.6	19.6	3.0	30.2 30.6
	20.4	14.1	I	4	N	1	—	10.2	28.2	2.4	21.6 22.0
	20.2	10.0	I	4	N	1	—	10.1	30.0	2.5	19.8 20.2
	19.2	17.1	II	2	K=H	1	—	9.6	34.2	3.1	15.6 16.0
?	18.2	14.3	II	2	K=H	1	—	9.1	28.6	3.5	21.2 21.6
	18.9	22.2	I	8	N	3	F.	9.4	44.4	3.2	5.4 5.8
	17.5	20.7	II	2	K=H	1	—	8.8	41.4	3.8	8.4 8.8
	17.1	20.9	III	2	K=H	1	—	8.6	41.8	4.0	8.0 8.4
	18.2	23.6	III	2	K=H	1	—	9.1	47.2	3.5	2.6 3.0
?	16.8	10.8	II?	2	K=H	1	prec.	8.4	21.6	4.2	28.2 28.6
?	16.5	12.1	II?	2	K=H	1	prec.	8.2	24.2	4.4	25.6 26.0
	16.3	14.1	III	1	N	1	—	8.2	28.2	4.4	21.6 22.0
	16.5	14.8	III	1	N	1	—	8.2	29.6	4.4	20.2 20.6
	16.4	15.0	III	2	K=H	1	—	8.4	30.0	4.2	19.8 20.2
	16.4	19.2	III	2	K=H	1	—	8.2	38.4	4.4	11.4 11.8
?	14.3	13.2	III	1	N	1	prec.	7.2	26.4	3.4	23.4 23.8
	14.0	15.4	I	4	K=H	1	—	7.0	30.8	3.6	19.0 19.4
	13.6	8.6	I	4	K=H	1	—	6.8	17.2	3.8	32.6 33.0
	13.2	12.1	III	2	K=H	1	—	6.6	24.2	6.0	25.6 26.0

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No.	R.A.	Dec.	Mag.	H.	V.
2941	14 22.5	+1 28	6.1	49.9	12.5
2913	14 12.3	+1 3	6.3	49.3	12.4
~~2981~~	~~14 39.7~~	~~+1 35~~	~~4.3~~	50.3	
2972	14 38.2	+1 18	6.5	49.8	12.3
2927	14 18.6	+1 39	7.0	49.4	12.4
~~2933~~	~~14 19.6~~	~~+1 46~~	~~8.2~~		
2920	14 15.9	+1 36	6.5	49.5	12.5
2895	14 3.4	+1 30	7.0	49.4	12.5
2783	14 4.2	+2 3	6.6	49.4	12.4
2862	14 38.9	+2 30	4.0	49.9	12.5
2855	14 35.9	+2 27	7.7	49.9	12.5
2844	14 30.2	+2 54	6.9	49.8	12.5
2826	14 21.5	+2 17	8.0	49.7	12.5
2821	14 19.7	+2 23	7.7	49.7	12.5
2806	14 15.4	+2 56	7.8	49.6	12.5
2896	14 21.3	+3 26	7.3	49.9	12.5
2867	14 5.0	+3 6	4.8	49.4	12.5
2874	14 8.0	+3 48	7.5	49.4	12.6
2841	14 7.6	+4 0	6.7	49.4	12.6
2859	14 2.1	+3 29	7.0	49.3	12.6
2885	14 28.3	+4 6	7.7	49.9	12.5
2879	14 25.7	+4 19	8.0	49.9	12.5
2871	14 21.7	+4 22	7.5	49.9	12.6
2865	14 20.5	+4 17	8.0	50.1	12.5
2864	14 19.7	+4 20	8.5	49.7	12.7
2847	14 11.2	+4 21	7.5	49.6	12.6
2886	14 23.5	+5 25	6.3	49.9	12.6
2879	14 18.7	+5 30	7.8	49.5	12.5
2903	14 32.9	+5 41	8.0	50.1	12.5
2889	14 25.8	+5 58	7.2	50.0	12.6

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Plate 1318.

V	H	Type	No. Lines	K	Focus	Other lines.		V.	H.	V.	H.	
13.2	15.0	III	1	N	1	—		6.6	30.0	6.0	19.8 ~~20.2~~	
12.0	15.0	III	2	K=H	1	—		6.0	30.0	6.6	19.8 ~~20.2~~	
12.0	15.1	III	2	K=H	1	—		6.0	30.2	6.6	19.6 ~~20.0~~	
12.6	15.9	III	2	K=H	1	—		6.3	31.8	6.3	18.0 ~~18.4~~	
12.3	16.3	II	11	K=.2H	4	F.		6.2	32.6	6.4	17.2 ~~17.6~~	
12.0	18.6	I	5	K=H	1	—		6.0	37.2	6.6	12.6 ~~13.0~~	
12.9	21.7	I	5	K=H	1	—		5.4	43.4	6.2	6.4 ~~6.8~~	
11.2	11.9	II	2	K=H	1	—		5.6	23.8	7.0	26.0 ~~26.4~~	
11.6	20.2	I	3	N	1	—		5.8	40.4	6.8	9.4 ~~9.8~~	
10.6	7.2	II	2	K=H	1	—		5.3	14.4	7.3	35.4 ~~35.8~~	
10.0	12.1	II	2	K=H	1	—		5.0	24.2	7.6	25.6 ~~26.0~~	
10.0	12.4	II	1	N	1	—		5.0	24.8	7.6	25.0 ~~25.4~~	
9.4	15.4	II	2	K=H	1	—		4.7	30.8	7.9	19.0 ~~19.4~~	
8.4	6.2	II	2	K=H	1	—		4.2	12.4	8.4	37.4 ~~37.8~~	
7.5	7.2	I?	K	K=H	1	—		3.8	14.4	8.8	35.4 ~~35.8~~	
?	7.6	7.8	III	2	K=2.0H?	3	Bright pen.	3.8	15.6	8.8	34.2 ~~34.6~~	
	7.1	13.5	II	2	K=H	1	—		3.6	27.0	9.0	22.8 ~~23.2~~
	7.1	15.0	I	5	N	1	—		3.6	30.0	9.0	19.8 ~~20.2~~
	7.8	16.3	III	2	K=H	1	—		3.9	32.6	8.7	17.2 ~~17.6~~
	7.5	16.4	I	8	K=.2H	3	—		3.8	32.8	8.8	17.0 ~~17.4~~
	7.1	16.7	I	10	K=.2H?	4	F.		3.6	33.4	9.0	16.4 ~~16.8~~
	4.4	10.6	III	2	K=H	1	—		2.2	21.2	10.4	28.6 ~~29.0~~
	4.0	11.2	II	2	K=H	1	—		2.0	22.4	10.6	27.4 ~~27.8~~
	3.9	15.0	II	1	N	1	—		2.0	30.0	10.6	19.8 ~~20.2~~
?	3.8	20.9	III	2	K=H	2	Bright pen?	1.9	41.8	10.7	8.0 ~~8.4~~	
	2.8	19.0	I	5	K=.5H	1	—		1.4	38.0	11.2	11.8 ~~12.2~~

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No.	R.A.	Dec.	Mag.	Th.	V.
2880	14 20.0	+ 5 55	8.4	50.0	12.5
2884	14 19.8	+ 6 37	7.8	49.8	12.6
2883	14 19.5	+ 6 36	7.5	49.7	12.6
2878	14 17.8	+ 6 16	7.7	49.6	12.6
2875	14 17.0	+ 6 29	5.5	49.6	12.7
2869	14 12.4	+ 6 33	8.2	49.6	12.6
2856	14 6.2	+ 6 4	7.8	49.6	12.5
2905	14 26.2	+ 6 56	8.2	50.0	12.5
2863	14 9.1	+ 6 44	7.3	49.5	12.5
2830	14 35.7	+ 7 12	7.6	50.1	12.5
2803	14 25.8	+ 7 36	8.0	50.0	12.6
2800	14 25.2	+ 7 32	8.3	50.0	12.5
2784	14 18.8	+ 7 54	8.5	49.6	12.6
2913	14 37.7	+ 8 19	8.3	50.1	12.5
2908	14 35.8	+ 8 43	8.0	50.2	12.5
2903	14 34.5	+ 8 47	5.5	50.1	12.6
2868	14 23.0	+ 8 60	7.7	50.0	12.6
2890	14 19.7	+ 9 2	7.9	49.7	12.6
2858	14 17.2	+ 8 45	7.3	49.8	12.7
2857	14 16.9	+ 8 54	7.0	49.7	12.7
2882	14 16.3	+ 9 6	5.0	49.7	12.7
2710	14 28.9	+ 10 24	7.3	50.1	12.6
2707	14 27.9	+ 10 33	7.9	50.3	12.6
2685	14 19.9	+ 10 39	7.4	49.9	12.6
2654	14 7.8	+ 10 48	5.3	49.6	12.7
2662	14 11.5	+ 11 11	7.0	49.5	12.6

?

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Plate 1388.

				No.			Other					
	τ	π	Type	lines	K	Focus	lines.	V.	π.	V.	π.	Correc.
17 5	22.0	7.6	II	3	K=H	2	F	11.0	13.2	16.8	55.2	+ 0.6
?	22.8	12.1	II	3	K=H	3	F. perm.	11.4	24.2	16.4	46.2	+ 0.2
	22.1	16.7	III	2	K=H	1	—	11.0	33.4	16.8	37.0	− 0.1
	21.7	8.4	III	2	N	1	F.	10.8	16.8	17.0	53.6	+ 0.5
?	21.4	10.3	III	3	K=H	3	F. Bright perm.	10.7	20.6	17.1	49.8	+ 0.4
	21.8	14.5	III	1	N	1	—	10.9	29.0	16.9	41.4	+ 0
	21.4	18.1	II	10	K=1.2H?	5	F.	10.7	36.2	17.1	34.2	− 0.3
	20.3	10.2	II	2	K=H	1	—	10.2	20.4	17.6	50.0	+ 0.5
	20.0	10.6	II	2	K=H	1	—	10.0	21.2	17.8	49.2	+ 0.4
	20.5	13.6	III	1	N	1	—	10.2	27.2	17.6	43.2	+ 0.1
	20.6	15.6	III	3	K=H	1	F.	10.3	31.2	17.5	39.2	− 0
?	20.4	15.9	III	3	K=1.2H	4	F. Bright perm.	10.2	31.8	17.6	38.6	− 0.1
?	20.9	22.0	II	2	K=H	1	perm.	10.4	44.0	17.4	26.4	− 0.7
	21.5	24.0	II	2	K=H	1	—	10.8	48.0	17.0	22.4	− 0.8
	19.5	9.4	II	2	K=1.5H?	1	—	9.8	18.8	18.0	51.6	+ 0.5
	19.6	17.1	III	2	K=H	1	—	9.8	34.2	18.0	36.2	− 0.2
	19.0	17.5	II	2	K=H	1	—	9.5	35.0	18.3	35.4	− 0.3
	19.2	17.7	III	2	K=H	1	—	9.6	35.4	18.2	35.0	− 0.3
	19.8	21.6	III?	2	K=H	1	—	9.9	43.2	17.9	27.2	− 0.7
	19.8	22.6	III?	2	K=H	1	—	9.9	45.2	17.9	25.2	− 0.8
	18.3	7.4	III	2	K=H	2	—	9.2	14.8	18.6	55.6	+ 0.8
	18.2	8.9	III	2	K=H	1	—	9.1	17.8	18.7	52.6	+ 0.6
	18.8	11.3	III	2	K=H	1	—	9.4	22.6	18.4	47.8	+ 0.4
	18.3	12.5	II	2	K=H	1	—	9.2	25.0	18.6	45.4	+ 0.3
	18.6	12.6	III	1	N	1	—	9.3	25.2	18.5	45.2	+ 0.3
	18.7	15.0	II	2	K=H	1	—	9.4	30.0	18.4	40.4	− 0
	18.5	15.7	II	3	K=H	2	F.	9.2	31.4	18.6	39.0	− 0.1
	18.0	16.9	II	2	K=H	1	—	9.0	33.8	18.8	36.6	− 0.2

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rec.	No.	R.A.		Dec.		Mag.	W.	V.	W'	
0.6	2725	14	55.8	+16	37	7.0	71.0	27.6	70.4	
0.2	2705	14	46.6	+16	17	6.2	70.8	27.7	70.6	
0.1	2685	14	36.8	+16	33	8.5	70.2	27.6	70.3	?
0.5	2721	14	54.3	+16	50	8.5	71.1	27.6	70.6	?
0.4	2715	14	50.4	+16	60	6.1	71.0	27.7	70.6	
0	2695	14	41.6	+16	44	8.3	70.6	27.6	70.6	?
0.3	2768	14	33.9	+17	3	3.8	70.1	27.7	70.4	
0.5	2804	14	50.5	+17	28	8.7	70.9	27.7	70.4	
0.4	2803	14	49.8	+17	42	7.8	71.0	27.7	70.6	
0.1	2790	14	43.5	+17	24	9.0	70.7	27.6	70.6	?
0	2783	14	39.1	+17	24	7.6	70.3	27.7	70.3	
0.1	2780	14	38.5	+17	35	4.5	70.3	27.8	70.4	
0.7	2751	14	25.5	+17	28	8.7	69.5	27.9	70.2	?
0.8	~~2737~~	~~14~~	~~19.9~~	~~+17~~	~~4~~	~~7.8~~	~~67.9~~			?
0.5	2805	14	52.3	+17	56	8.0	71.1	27.7	70.6	
0.2	2915	14	35.6	+18	2	9.0	69.8	27.8	70.0	?
	2913	14	35.0	+18	14	8.3	70.0	27.7	70.3	
0.3	~~2914~~	~~14~~	~~35.2~~	~~+18~~	~~30~~	~~8.3~~	70.2	28.0	70.5	
0.3	~~2913~~	~~14~~	~~35.0~~	~~+18~~	~~14~~	~~8.3~~	~~70.4~~	~~27.8~~	~~70.7~~	?
0.7	2755	14	26.4	+17	48	8.8	69.6	27.7	70.3	?
0.8	2749	14	24.8	+17	44	8.8	70.0	27.6	70.8	?
0.8	2972	14	56.6	+18	33	7.2	71.4	27.8	70.6	
0.6	2967	14	53.4	+18	34	8.0	71.2	27.7	70.5	
0.4	2955	14	48.4	+18	18	8.0	71.0	27.7	70.6	
0.3	2949	14	45.7	+18	33	8.5	70.7	27.8	70.4	
0.3	2948	14	45.6	+18	23	7.9	70.8	27.7	70.5	
0	2933	14	40.7	+18	22	8.3	70.7	27.8	70.7	?
0.1	2926	14	38.8	+18	29	8.0	70.2	27.7	70.3	
0.2	2917	14	36.3	+18	42	8.8	70.1	27.7	70.3	

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	V	H	Type	No. Lines	K	Focus	Other Lines	V.	H.	V.	H.	Correc.
	18.4	17.4	II	2	K=H	1	—	9.2	34.8	18.6	35.6	− 0.3
?	18.8	22.4	II	3	K=H	2	F. perc.	9.4	44.8	18.4	25.6	− 0.7
	17.3	11.8	III	2	K=H	1	—	8.6	23.6	19.2	46.8	+ 0.4
	17.8	12.1	III	2	K=H	1	—	8.9	24.2	18.9	46.2	+ 0.3
	17.0	13.1	II	2	K=H	2	—	8.5	26.2	19.3	44.2	+ 0.2
	17.6	13.2	II	1	N	1	—	8.8	26.4	19.0	44.0	+ 0.2
	17.8	14.3	III	2	K=H	2	—	8.9	28.6	18.9	41.8	+ 0.1
	17.6	15.0	II	3	K=H	1	F.	8.8	30.0	19.0	40.4	− 0
	17.4	16.3	II	2	K=H	2	—	8.7	32.6	19.1	37.8	− 0.1
	17.3	17.5	II	2	K=1.5H?	1	—	8.6	35.0	19.2	35.4	− 0.3
	17.3	17.6	II	2	K=H	1	—	8.6	35.2	19.2	35.2	− 0.3
	17.5	18.3	II	2	K=H	1	—	8.8	36.6	19.0	33.8	− 0.4
?	17.6	19.2	III	2	K=1.5H	3	Bright perc.	8.8	38.4	19.0	32.0	− 0.5
?	16.0	7.5	II	2	K=H	1	perc.	8.0	15.0	19.8	55.4	+ 0.9
?	16.4	10.1	III	2	K=1.2H	2	Bright perc.	8.2	20.2	19.6	50.2	+ 0.6
	16.0	12.1	III	2	K=H?	3	Bright perc.	8.0	24.2	19.8	46.2	+ 0.4
	16.1	12.5	III	? 1	N	1	—	8.0	25.0	19.8	45.4	+ 0.3
	16.8	12.6	II	1	N	1	—	8.4	25.2	19.4	45.2	+ 0.3
?	16.3	13.1	III	3	K=1.5H	4	F. Bright perc.	8.2	26.2	19.6	44.2	+ 0.2
	16.3	14.9	II	2	K=H	1	—	8.2	29.8	19.6	40.6	+ 0
	16.6	15.8	II	2	K=H	2	Bright perc.	8.3	31.6	19.5	38.8	− 0.1
	16.5	17.8	II	2	K=H	1	—	8.2	35.6	19.6	34.8	− 0.3
	16.8	17.9	III	1	N	1	—	8.4	35.8	19.4	34.6	− 0.3
	16.5	22.1	II	1	N	1	—	8.2	44.2	19.6	26.2	− 0.8
	16.6	22.1	II	1	N	1	—	8.3	44.2	19.5	26.2	− 0.8
	15.0	13.8	I	4	?	1	—	7.5	27.6	20.3	42.8	+ 0.2
	15.4	13.9	I	8	N	3	—	7.7	27.8	20.1	42.6	+ 0.1
1 0	15.0	14.1	II	2	K=H	1	—	7.5	28.2	20.3	42.2	+ 0.1

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No.	R.A.	Dec.	Mag.	M.	V.	M'	
2914	14	35.2 + 18 30	8.3	70.0	27.7	70.3	?
2888	14	24.8 + 18 17	6.8	69.6	27.7	70.3	
2883	14	47.3 + 19 6	8.8	70.9	27.7	70.5	?
2951	14	46.7 + 18 50	7.7	70.9	27.7	70.6	
2869	14	44.6 + 19 13	8.0	70.8	27.7	70.6	
2940	14	44.3 + 18 32	8.9	70.7	27.7	70.5	
2935	14	42.2 + 18 49	7.5	70.8	27.7	70.7	
2931	14	40.4 + 18 57	8.1	70.4	27.7	70.4	
2850	14	37.5 + 19 6	7.4	70.1	27.8	70.2	
2844	14	35.1 + 19 7	7.5	70.1	27.7	70.4	☽ X
2842	14	34.9 + 19 6	8.1	70.1	27.7	70.4	
2909	14	33.4 + 18 59	8.9	70.0	27.8	70.4	?
2906	14	31.5 + 18 56	6.1	69.9	27.7	70.4	
2911	14	36.5 + 19 40	8.2	71.5	27.7	70.6	?
2891	14	31.1 + 19 34	6.8	71.3	27.8	70.7	
2881	14	46.8 + 19 45	6.3	71.0	27.8	70.6	
2875	14	46.0 + 19 41	8.5	71.0	27.7	70.7	?
2874	14	45.8 + 19 20	8.1	71.0	27.7	70.7	
2870	14	44.7 + 19 43	3.0	70.9	27.9	70.8	
2863	14	40.8 + 19 40	7.5	70.6	27.9	70.6	
2854	14	38.7 + 19 30	6.5	70.3	27.8	70.4	
2841	14	34.5 + 19 33	8.5	70.1	27.8	70.4	?
2838	14	34.2 + 19 22	8.2	70.0	27.8	70.3	
2818	14	25.4 + 19 29	7.5	69.6	27.7	70.4	☽ X
2817	14	25.2 + 19 24	8.2	69.4	27.7	70.2	
2028	14	43.2 + 20 15	9.0	70.8	27.7	70.6	
~~2026~~	~~14~~	~~42.8 + 20 7~~	~~6.9~~				?
2026	14	42.8 + 20 7	6.9	70.6	27.8	70.5	
2025	14	42.5 + 20 18	8.0	70.7	27.8	70.6	

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		V	H	Type	No. lines	K	No. lines	Other	V.	H.	V.	H.	Correc.
9	10	15.8	16.3	II	2	K=H	1	—	7.9	32.6	19.9	37.8	− 0.3
		15.4	18.5	II	1	N	1	—	7.7	37.0	20.1	33.4	− 0.4
		15.4	19.4	II	2	K=H	1	—	7.7	38.8	20.1	31.6	− 0.5
		15.7	20.4	II	1	N	1	—	7.8	40.8	20.0	29.6	− 0.7
		15.8	20.5	II	2	K=H	1	—	7.9	41.0	19.9	29.4	− 0.7
		14.5	6.9	II	3	K=H	1	F	7.3	13.8	20.6	56.6	+ 1.0
		14.8	10.5	III	2	K=H	1	—	7.4	21.0	20.4	49.4	+ 0.6
?		14.6	12.0	III	2	K=H	2	Bright pairs	7.3	24.0	20.5	46.4	+ 0.4
		14.8	12.1	III	1	N	1	—	7.4	24.3	20.4	46.2	+ 0.4
		14.8	15.0	III	2	K=H	2	—	7.4	30.0	20.4	40.4	− 0
		14.0	15.7	II	2	K=H	1	—	7.0	31.4	20.8	39.0	− 0.1
		14.0	16.6	II?	1	N	1	—	7.0	33.2	20.8	37.2	− 0.2
		14.4	18.0	III	1	N	1	—	7.3	36.0	20.6	34.4	− 0.4
		14.5	19.0	III	2	K=H	2	—	7.3	38.0	20.6	32.4	− 0.5
		14.6	19.5	III	3	K=H	2	F	7.3	39.0	20.5	31.4	− 0.6
		13.4	6.4	I?	4	K=H	1	—	6.7	12.8	21.1	57.6	+ 1.3
		13.1	10.4	II	2	K=H	1	—	6.6	20.8	21.2	49.6	+ 0.6
		13.1	11.0	II	2	K=H	1	—	6.6	22.0	21.2	48.4	+ 0.5
		13.8	12.7	I	9	K=1.2H	3	F	6.9	25.4	20.9	45.0	+ 0.3
		13.5	14.1	II	2	K=H	1	—	6.8	28.3	21.0	42.2	+ 0.1
		13.2	14.4	II	2	K=H	1	—	6.6	28.8	21.2	41.6	+ 0.1
		13.0	14.8	II	2	K=H	1	—	6.5	29.6	21.3	40.8	+ 0
		13.4	17.0	III	2	K=H	1	—	6.7	34.0	21.1	36.4	− 0.3
		12.3	14.7	II	2	K=H	1	—	6.2	29.4	21.6	41.0	+ 0
		12.5	15.3	II	2	K=H	1	—	6.2	30.6	21.6	39.8	− 0
		12.2	15.8	II	2	K=H	1	—	6.1	31.6	21.7	38.8	− 0.1
		12.1	15.9	II	2	K=H	1	—	6.0	31.8	21.8	38.6	− 0.1
?		12.2	17.3	II	3	K=H	3	F. Bright pairs	6.1	34.6	21.7	35.8	− 0.3

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rec.	No.	R.A.	Dec.	Mag.	M.	r.	M'	
3	2851	14 37.6	+19 48	8.9	70.2	27.7	705	
4	3006	14 33.3	+20 12	9.0	70.3	27.9	707	?
.5	2898	14 30.8	+20 2	8.7	69.6	27.7	701	
.7	2827	14 28.7	+19 53	8.2	69.5	27.7	702	
.7	2824	14 28.5	+19 51	8.1	69.5	27.7	702	
0	3056	14 37.9	+20 26	7.5	71.7	27.6	707	/
.6	3043	14 35.2	+20 16	9.0	71.2	27.7	706	/
.4	3036	14 46.7	+20 29	7.5	70.9	27.8	705	
.4	3034	14 46.8	+20 19	8.8	71.0	27.7	706	
0	3024	14 40.3	+20 25	7.5	70.3	27.8	703	
0.1	3020	14 38.7	+20 47	8.5	70.1	27.8	702	
0.2	3015	14 36.9	+20 44	9.0	70.1	27.7	703	/
0.4	3007	14 33.9	+20 31	9.0	69.9	27.7	703	/
0.5	3000	14 31.8	+20 29	8.2	69.8	27.7	703	/
0.6	2997	14 30.8	+20 29	8.2	69.8	27.7	704	?
1.3	3057	14 59.1	+20 57	8.0	71.9	27.7	707	
0.6	2705	14 50.3	+21 8	8.8	71.1	27.7	705	
0.5	2701	14 49.3	+21 6	8.5	71.3	27.7	708	
0.3	3032	14 45.5	+20 54	7.3	70.9	27.8	706	
0.1	2692	14 42.5	+21 0	8.0	70.7	27.8	706	
0.1	2691	14 41.9	+21 10	8.8	70.7	27.8	706	
0	2687	14 40.9	+21 16	9.0	70.5	27.8	705	/
0.3	2680	14 36.4	+21 6	8.9	70.4	27.8	707	?
0	2689	14 41.2	+21 37	9.0	70.6	27.8	706	/
0	2685	14 39.6	+21 30	8.7	70.2	27.7	702	
0.1	2682	14 38.7	+21 42	8.5	70.3	27.8	704	?
0.1		14	+					
0.3	2674	14 35.3	+21 45	6.5	69.9	27.9	702	?

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	V	H	Type	No. lines	K	Focus	Other lines	V.	H.	V.	H.	Correc.
	12.6	23.4	III	2	K=H	1	—	6.3	46.8	21.5	23.6	-1.2
	11.4	8.9	III	2	K=H	1	—	5.7	17.8	22.1	52.6	+0.9
	11.4	10.4	II	9	K=1.2H	3	F.	5.7	20.8	22.1	49.6	+0.7
	11.8	14.4	II?	4	K=H	1	F.?	5.9	28.8	21.9	41.6	+0.1
	11.0	14.5	II	5	K=H	1	—	5.5	29.0	22.3	41.4	+0
	11.8	17.1	II	2	K=H	2	—	5.9	34.2	21.9	36.2	-0.3
	11.2	23.8	III	2	K=H	1	—	5.6	47.6	22.3	22.8	-1.4
?	10.3	8.6	III	2	K=H	2	Bright pairs	5.2	17.2	22.6	53.2	+1.0
	10.2	15.4	II	2	K=H	1	—	5.1	30.8	22.7	39.6	-0
	10.4	15.8	II	2	K=H	1	—	5.2	31.6	22.6	38.8	-0.1
	10.6	16.6	II	2	K=H	1	—	5.3	33.2	22.3	37.2	-0.3
?	10.8	16.8	II	2	K=H	1	perm.	5.4	33.6	22.4	36.8	-0.3
?	10.4	18.0	II	5	K=H	3	perm. F. Bright	5.2	36.0	22.6	34.4	-0.5
	10.0	21.9	II	1	N	1	—	5.0	43.8	22.8	26.6	-1.0
?	9.4	6.8	II	2	K=H	1	perm.	4.7	13.6	23.1	56.8	+1.4
	9.7	13.1	II	1	N	1	—	4.8	26.2	23.0	44.2	+0.3
	9.6	14.4	III	1	N	1	—	4.8	28.8	23.0	41.6	+0.1
	9.4	16.0	II	1	N	1	—	4.7	32.0	23.1	38.4	-0.2
	9.9	18.3	II	5	N	1	F.?	5.0	36.6	22.8	33.8	-0.5
?	9.8	21.6	II	6	K=H	4	F. perm.	4.9	43.2	22.9	27.3	-1.0
	8.4	5.7	III	3	K=H	1	F.	4.2	11.4	23.6	59.0	+1.6
	8.6	13.3	II	2	K=H	2	—	4.3	26.6	23.5	43.8	+0.3
?	8.4	13.8	II	6	K=H	2	F.	4.2	27.6	23.6	42.8	+0.2
	8.2	14.1	II	1	N	1	—	4.1	28.2	23.7	42.2	+0.2
	8.6	14.5	III	1	N	1	—	4.3	29.0	23.5	41.4	+0.1
	8.8	16.2	II	2	K=H	1	—	4.4	32.4	23.4	38.0	-0.2
	8.6	16.7	II	2	K=H	1	—	4.3	33.4	23.5	37.0	-0.4
	8.4	19.8	II	1	N	1	—	4.2	39.6	23.6	30.8	-0.7

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No.	R.A.	Dec.	Mag.	M.	V.	M'	
2658	14 22.3	+21 25	7.6	69.1	27.7	70.3	
2769	14 53.6	+22 4	8.9	71.4	27.8	70.5	
2764	14 50.5	+23 8	6.2	71.3	27.8	70.6	
2691	14 41.8	+21 56	8.0	70.6	27.8	70.5	
2750	14 41.4	+22 19	8.2	70.4	27.8	70.4	
2676	14 35.8	+21 56	7.8	70.0	27.8	703	?
2705	14 21.0	+22 14	8.2	68.6	27.8	70.0	
2706	14 21.2	+22 2	8.5	68.8	27.6	70.2	?
2772	14 54.4	+22 38	6.3	71.6	27.8	70.6	
2745	14 39.5	+22 40	8.5	70.3	27.8	703	
2743	14 38.4	+22 26	9.6	70.0	27.6	70.1	
2739	14 37.0	+22 25	8.7	70.2	27.7	70.5	
2738	14 36.4	+22 24	8.1	70.0	27.8	703	
2731	14 33.8	+22 36	6.0	69.8	27.8	703	
2714	14 25.4	+22 43	8.5	69.2	27.7	70.2	
2780	14 58.3	+22 59	8.2	71.9	27.7	71.5	
2756	14 44.6	+22 35	8.7	70.8	27.7	70.5	
2737	14 41.9	+23 1	7.7	70.7	27.8	70.6	
	14	+					
2727	14 33.2	+22 48	8.0	69.8	27.8	70.3	
2713	14 25.9	+22 54	5.3	69.1	27.8	70.1	
2776	15 0.8	+23 29	7.3	122	27.7	70.6	?
2747	14 44.3	+23 31	7.9	70.9	27.8	70.6	
2744	14 43.2	+23 38	7.0	70.8	27.8	706	
2740	14 42.5	+23 42	8.9	70.7	27.9	70.5	
2741	14 42.5	+23 47	8.7	70.7	27.9	70.5	?
2736	14 41.6	+23 34	8.3	70.6	27.9	70.5	?
2730	14 37.6	+23 26	8.9	70.0	27.8	70.2	
2729	14 37.6	+23 23	8.7	71.0	27.7	71.4	
2711	14 29.8	+23 38	9.0	69.4	27.8	70.1	?

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	r	H	Type	Lines	K	Focus	Other lines		V.	H.	V.	H.	Correc.
	7.4	21.4	III	2	K=H	1	—		3.7	42.8	24.1	27.6	- 1.1
	7.3	11.6	III	1	N	1	—		3.6	23.2	24.2	47.2	+ 0.6
	7.7	11.9	III	2	K=H	1	—		3.8	23.8	24.0	46.6	+ 0.5
	7.7	12.4	III	2	K=H	1	—		3.8	24.8	24.0	45.6	+ 0.4
?	7.4	14.1	III	2	K=H	1	faint		3.7	28.2	24.1	42.2	+ 0.2
	7.5	14.5	III	1	N	1	—		3.8	29.0	24.0	41.4	+ 0.1
	7.1	15.1	III	2	K=H	1	—		3.6	30.2	24.2	40.2	- 0
	7.4	15.8	III	2	K=H	1	—		3.7	31.6	24.1	38.8	- 0.1
	7.1	19.7	III	2	K=H	1	—		3.6	39.4	24.2	31.0	- 0.8
?	7.9	19.9	III	2	K=H	2	Bright faint		4.0	39.8	23.8	30.6	- 0.8
	7.3	20.4	III	1	N	1	—		3.6	40.8	24.2	29.6	- 0.9
	7.9	21.1	III	2	K=H	1	—		4.0	42.2	23.8	28.2	- 1.0
	6.4	7.7	III	2	K=H	1	—		3.2	15.4	24.6	55.0	+ 1.3
	6.1	9.6	II	7	K=H	2	F.		3.0	19.2	24.8	51.2	+ 1.0
?	6.8	12.5	III	3	K=H	1	F.	Bright faint	3.4	25.0	24.4	45.4	+ 0.5
?	6.7	13.5	III	3	K=H	1	F.	faint Bright	3.4	27.0	24.4	43.4	+ 0.3
	6.3	14.7	III	3	K=H	1	F.		3.2	29.4	24.6	41.0	+ 0.1
	6.9	14.9	II	6	K=1.8H	1	—		3.4	29.8	24.4	40.6	+ 0
	6.9	17.5	II	2	K=H	1	—		3.4	34.5	24.4	35.4	- 0.4
	6.4	19.8	III	2	K=H	1	—		3.2	39.6	24.6	30.8	- 0.8
	5.0	10.1	III	2	K=H	1	—		2.5	20.2	25.3	50.2	+ 0.9
	5.7	10.9	III	2	K=H	2	—		2.8	21.8	25.0	48.6	+ 0.8
	5.0	13.7	II	9	K=1.2H	3	F.		2.5	27.4	25.3	43.0	+ 0.3
?	5.8	14.4	III	3	K=H	3	F.	faint Bright	2.9	28.8	24.9	41.6	+ 0.1
	5.0	15.8	III	2	K=H	1	—		2.5	31.6	25.3	38.8	- 0.2
?	5.4	17.3	III	2	K=H	1	faint		2.7	34.6	25.1	35.8	- 0.4
	5.5	19.5	II	7	N	2	F.		2.8	39.0	25.0	30.4	- 0.8
	5.8	20.0	II	3	N	1	—		2.9	40.0	24.9	30.4	- 0.9

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ree.	No.	R.A. 14	Dec. +	Mag.	H.	V.	H'	
.1								
0.6	2794	14 48.0	+24 10	8.7	71.3	27.8	70.6	
0.5	2751	14 47.4	+23 56	8.5	71.2	27.7	70.7	) ?
0.4	2749	14 46.2	+23 57	8.2	71.0	27.8	70.6	
0.2	2783	14 42.5	+24 10	8.5	70.7	27.8	70.5	
0.1	2778	14 41.6	+24 6	8.3	70.6	27.9	70.5	
0	2771	14 40.0	+24 13	9.0	70.2	27.8	70.2	?
0.1	2766	14 38.5	+24 8	8.8	70.1	27.8	70.2	
0.8	2745	14 30.0	+24 15	7.8	69.4	27.8	70.2	
0.8	2760	14 29.6	+23 53	6.3	69.4	27.9	70.2	
0.9	2740	14 28.6	+24 11	7.8	69.4	27.8	70.3	?
1.0	2708	14 27.0	+23 49	9.0	69.2	27.8	70.2	?
1.3	2814	14 56.6	+24 33	8.5	72.0	27.8	70.7	
1.0	2803	14 52.4	+24 45	6.8	71.6	27.8	70.6	
0.5	2790	14 46.0	+24 23	6.8	71.0	27.8	70.5	
0.3	2786	14 43.8	+24 31	5.8	70.8	27.9	70.5	
0.1	2776	14 41.2	+24 42	7.5	70.6	27.9	70.5	
0	2775	14 40.8	+24 23	8.3	70.6	27.8	70.6	
0.4	2757	14 34.8	+24 21	8.9	69.8	27.8	70.2	
0.8	2744	14 29.7	+24 38	7.8	69.3	27.8	70.1	?
0.9	2855	14 51.3	+25 16	7.5	71.5	27.8	70.6	
0.8	2798	14 49.6	+24 59	6.7	71.4	27.8	70.6	
0.3	2841	14 43.5	+25 20	7.0	70.9	27.8	70.6	
0.1	2779	14 42.0	+24 58	6.1	70.8	27.9	70.7	
0.2	2829	14 38.7	+25 19	8.2	70.3	27.8	70.5	?
0.4	2816	14 35.3	+25 9	7.5	69.9	27.9	70.3	?
0.8	2804	14 30.4	+25 6	7.5	69.4	27.9	70.2	?
0.9	2743	14 29.4	+24 51	8.3	69.4	27.7	70.3	

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Plate 1388.

	r	H	Type	No. lines	K	Focus	Other lines.	V.	H.	V.	H. Correc
9	5.8	20.7	I	6	N	1	—	2.9	41.4	34.9	29.0 − 1.0
	5.1	23.4	III	2	K=H	1	—	2.6	46.8	25.2	23.6 − 1.6
?	4.6	5.8	II	2	K=2.5H?	4	F, prec.	2.3	11.6	23.5	58.8 + 1.8
	4.5	8.1	III	3	K=H	3	F. Bright prec.	2.2	16.2	25.6	54.3 + 1.3
	4.4	9.6	III	3	K=H	1	F.	2.2	19.2	25.6	51.3 + 1.0
	4.3	10.8	II	2	K=H	1	—	2.2	21.6	25.6	48.8 + 0.8
	4.2	14.0	III	2	K=H	1	Bright prec.	2.1	28.1	25.7	42.4 + 0.1
?	4.5	19.9	II	3	K=H	1	F, prec.	2.2	39.8	25.6	30.6 − 0.9
	4.0	22.4	I	1	N	1	—	2.0	44.8	25.8	26.6 − 1.5
	3.4	6.9	III	1	N	1	—	1.7	13.8	26.1	56.6 + 1.7
	3.8	10.3	II	2	K=H	1	—	1.9	20.6	25.9	49.8 + 0.9
	3.5	14.6	III	1	N	1	—	1.8	29.2	26.0	41.2 + 0.1
	2.3	7.4	II	2	K=H	1	—	1.2	14.8	26.6	55.6 + 1.7
	2.5	17.2	I	6	K=1.5H	1	—	1.2	34.4	26.6	36.0 − 0.5
	2.5	23.1	III	1	N	1	—	1.2	46.2	26.6	24.2 − 1.7

Plate 1364

	19.0	8.5	I	6	N	2	—	9.5	17.0	13.1	74.5
	19.1	15.0	I	4	K=H	1	—	9.6	30.0	13.0	61.5
	19.0	21.4	I	V	N	1	—	9.5	42.8	13.1	48.7
	17.1	11.6	III	2	K=H	1	—	8.6	23.2	14.0	68.3
	17.6	15.0	III	3	K=H	1	F.	8.8	30.0	13.8	61.5
	15.9	20.0	III	1	N	1	—	8.0	40.0	14.6	51.5
	15.0	21.0	I	7	N	3	F?	7.5	42.0	15.1	49.5
	14.6	6.6	II	1	N	1	—	7.3	13.2	15.3	78.3
	14.3	19.2	III	1	N	1	—	7.2	38.4	15.4	53.1
?	13.4	6.9	III	1	N	1	F, Bright prec.	6.7	13.8	15.9	77.7
	13.8	18.1	I	3	N	1	—	6.9	36.2	15.7	55.3

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Correc.	No.	R.A.	Dec.	Mag.	Tt.	r	Tt.	
	2796	14 27.8	+25 1	8.1	69.2	27.9	70.2	?
-1.0	2797	14 27.9	+25 2	8.1	69.3	27.9	70.3	
-1.6	2782	14 21.8	+25 11	8.0	68.6	27.8	70.2	
+1.8	2873	15 0.9	+25 27	4.8	125	27.7	107	
-1.3	2861	14 55.8	+25 35	4.7	72.0	27.8	70.7	
+1.0	2856	14 52.5	+25 38	7.0	71.7	27.8	70.7	
+0.8	2850	14 49.8	+25 40	8.0	71.4	27.9	70.6	?
+0.1	2839	14 42.9	+25 46	6.8	70.9	27.9	70.6	
-0.9	2802	14 29.4	+25 32	8.0	69.2	27.7	70.1	
-1.5	2786	14 24.0	+25 45	8.3	68.8	27.8	70.3	
+1.7	2647	14 58.5	+26 2	8.0	72.3	27.7	70.6	
-0.9	2853	14 51.0	+25 54	7.3	71.6	27.8	70.7	?
-0.1	2603	14 41.5	+26 4	8.3	70.7	27.9	70.6	
-1.7	2646	14 57.5	+26 36	7.7	72.3	27.8	70.6	
0.5	2592	14 35.4	+26 35	7.9	69.8	27.8	70.3	
-1.7	2575	14 22.3	+26 30	7.0	68.5	27.7	70.2	

2928	15	15.5	+13	6	6.4	32.5	22.6
2899	15	1.9	+13	3	7.0	31.9	22.6
2866	14	48.6	+13	1	6.5	91.4	22.5
2853	15	9.3	+14	1	6.8	32.5	22.6
2901	15	2.0	+13	48	6.2	32.0	22.6
2812	14	51.4	+14	36	7.0	93.4	22.6
2796	14	49.4	+15	2	6.2	62.6	22.5
2858	15	19.1	+15	56	4.8	32.3	22.2
2803	14	53.2	+15	25	7.2	91.6 67.0	22.6
2858	15	19.1	+15	56	4.8	32.9	22.7
2808	14	55.5	+15	40	8.5	91.7	22.6

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Plate 1364.

	T	H	Type	No. Lines	K	Focus	Other Lines.	V.	Hh.	V.	Hh.	Corrn
	13.8	20.2	III	1	N	1	—	6.9	40.4	15.7	51.1	
	13.8	21.5	III	1	N	1	—	6.9	43.0 ~~70.8~~	15.7	48.5	
	13.2	21.6	I	5	K=.5H	1	—	6.6	43.2 ~~70.8~~	16.0	48.3	
	13.5	22.5	I	5	K=.2H	1	—	6.8	45.0 ~~77.9~~	13.8	46.5	
	12.0	17.8	II	2	K=H	1	—	6.0	35.6 ~~8.9~~	16.6	35.9	
?	12.5	22.3	II	2	K=H	2	perm.	6.2	44.6 ~~11.8~~	16.4	46.9	
	11.8	9.6	II	2	K=H	1	—	5.9	19.2 ~~4.8~~	16.7	72.3	
?	11.2	20.4	III	2	K=H	2	Bright lines.	5.6	40.8 ~~10.2~~	17.0	50.7	
	10.6	11.4	II	2	K=H	1	—	5.3	22.8 ~~3.7~~	17.3	68.7	
	9.5	20.7	II	2	K=H	1	—	4.8	41.4	18.8	50.1	
	8.4	7.9	II	2	K=H	1	—	4.2	15.8	18.4	75.7	
	8.2	17.4	III	2	K=H	1	—	4.1	34.8	18.5	86.7	
	7.4	15.4	II	8	K=.2H	3	F.	3.7	30.8	18.9	60.7	
	6.4	8.3	III	1	N	1	—	3.2	16.6	19.4	74.9	
?	6.4	13.4	III	1	N	1	Bright? plate	3.2	26.8	19.4	64.7	
	6.1	20.0	III	2	K=H	1	—	3.0	40.0	19.6	51.5	
?	5.4	6.8	II	2	K=H	1	perm.	2.7	13.6	19.9	77.9	
	5.8	13.0	II	2	K=H	2	—	2.9	26.0	19.7	63.5	
	5.8	22.0	III?	2	K=H	1	—	2.9	44.0	19.7	47.5	
?	5.8	23.0	III	2	K=2.5H?	3	F. Bright plate	2.9	46.0	19.7	45.5	
	4.2	13.6	I	5	K=.5H	1	—	2.1	27.2	20.5	64.3	
	4.9	23.9	I	4	N	1	—	2.4	47.8	20.2	43.7	
	3.1	10.4	III	2	K=H	2	—	1.6	20.8	21.0	70.7	
	3.5	22.5	I	4	N	1	—	1.8	45.0	20.8	46.5	

Plate 1374

	22.8	9.3	III	3	K=H	2	F.	11.4	18.6	21.2	71.1	+ 0.8
?	21.0	12.5	II	2	K=H	1	perm.	10.5	25.0	22.1	64.7	+ 0.4

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No.	R.A.		Dec.		Mag.	M.	V.	H′
2798	14	51.0	+	15 41	7.7	91.4	22.6	
2792	14	48.2	+	15 34	7.2	91.2	22.5	
2790	14	48.0	+	15 55	7.5	91.2	22.5	
2784	14	46.1	+	15 43	7.2	91.1	22.5	
2725	14	55.8	+	16 37	7.0	91.4	22.6	
2705	14	46.6	+	16 17	6.2	91.2	22.5	
2765	15	12.9	+	16 30	8.3	32.1	22.4	?
~~2768~~	~~15~~	~~13.5~~	+	~~16~~	~~43~~	~~7.6~~	~~32.7~~	~~22.6~~
2715	14	50.4	+	16 60	6.1	91.2	22.6	
2843	15	9.8	+	17 20	8.0	32.6	22.6	2
2803	14	49.8	+	17 42	7.8	91.2	22.5	
3010	15	17.1	+	18 22	7.5	32.9	22.6	?
~~3010~~ 2972	15 4	56.6	+	18 33	7.2	91.4	22.7	
2924	15	0.7	+	19 1	6.1	31.5	22.7	
2961	15	16.2	+	19 27	7.1	32.8	22.7	
2932	15	4.7	+	19 9	8.5	31.5	22.4	
~~2935~~	~~15~~	~~5.6~~	+	~~19~~	~~32~~	~~5.9~~	~~32.4~~	~~22.7~~
2891	14	57.1	+	19 34	6.8	91.1	22.6	
2966	14 5	19.4	+	19 60	6.8	33.0	22.7	
2935	15	5.5	+	19 32	5.9	31.5	22.4	
2881	14	46.8	+	19 45	6.3	90.8	22.7	
2870	14	44.7	+	19 43	5.0	90.7	22.6	
3076	15	5.0	+	20 37	7.2	32.2	22.7	
3026	14	42.8	+	20 7	6.9	90.6	22.5	
2755	15	11.9	+	21 7	6.2	32.7	22.7	
3032	14	45.5	+	20 54	7.3	90.5	22.7	

2755	15	11.9	+	21	7	6.2	30.5	32.5	29.7 ~~31.7~~
2799	15	5.1	+	22	5	7.5	30.1	32.6	29.7 ~~32.2~~

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	r	R	Type	Ko. lines	K	Focus	Other lines	V.	H.	V.	H.	Correc.	
	20.0	17.4	III	2	K=H	1	—	10.0	34.8	22.6	57.9	−0.4	
	20.9	19.2	I	6	H	2	F.	10.4	38.4	22.2	51.3	−0.6	
	19.4	9.8	I?	1	H	1	—	9.7	19.6	22.9	70.1	+0.9	
	19.4	20.3	III	1	H	1	—	9.7	40.6	22.9	49.1	−0.8	
	19.1	15.6	II	2	K=H	1	—	9.7	31.2	23.0	58.5	−0.1	
	18.2	11.7	I	6	H	3	F?	9.1	23.4	25.5	66.3	+0.6	
	18.3	14.5	III	2	K=H	1	—	9.2	29.0	23.4	60.7	+0.1	
	18.0	22.1	II	2	K=H	1	—	9.0	44.2	23.6	45.5	−0.4	
	17.8	22.4	I	4	K=H	1	—	8.9	44.8	23.7	44.9	−0.4	
	16.4	21.1	III	1	H	1	—	8.2	42.2	24.4	47.5	−1.1	
	16.1	22.1	II	2	K=H	3	F?	8.0	44.2	24.6	45.5	−1.4	
	15.4	8.0	I	4	H	2	—	7.7	16.0	24.9	73.7	+1.3	
?	15.7	18.2	II	2	K=H	2	F. pec.	7.8	36.4	24.8	53.3	−0.6	
	15.3	19.5	III	3	K=H	1	F.	7.6	39.0	25.0	50.7	−0.8	
?	15.1	22.9	II	2	K=H	3	F? pec.	7.6	45.8	25.0	43.9	−1.5	
	14.4	6.3	II	2	K=H	1	—	7.2	12.6	25.4	77.1	+1.8	
	14.2	8.2	III	3	K=H	1	F.	7.1	16.4	25.5	73.3	+1.4	
	14.8	13.5	II	2	K=H	1	pec.	7.4	27.0	25.2	62.7	+0.3	
?	14.0	13.9	III	2	K=H	2	F? Bright pec.	7.0	27.8	25.6	61.9	+0.2	
?	14.5	14.5	II	5	K=H	4	F. pec.	7.2	29.0	25.4	60.7	+0.1	
?	14.2	16.7	III	2	K=H	3	F? Bright pec.	7.1	33.4	25.5	56.3	−0.2	
	14.0	18.2	III	1	H	1	—	7.0	36.4	25.6	53.3	−0.6	
	14.5	22.2	I	5	H	2	—	7.2	44.4	25.4	45.3	−0.4	
	13.5	7.0	II	2	K=H	1	—	6.8	14.0	25.8	75.7	+1.4	
	13.6	7.7	I	4	H	1	—	6.8	15.4	25.8	74.3	+1.5	
	13.5	18.8	III	2	K=H	1	—	6.8	37.6	25.8	52.1	−0.8	
	13.6	22.5	III	2	K=H	1	—	6.8	45.0	25.8	44.7	−1.6	
	12.9	10.7	I	6	H	2	—	6.4	21.4	26.2	68.4	+0.9	

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No.	R.A.	Dec.	Mag.	M.	V.	M'
2772	14 54.4	+ 22 38	6.3	89.2	32.6	89.6
2764	14 50.5	+ 22 8	6.2	88.9	32.5	89.5
2811	15 11.1	+ 22 50	7.0	30.7	32.5	29.8
	14					
2780	14 58.3	+ 22 59	8.2	89.5	32.6	89.6
2789	15 7.1	+ 23 32	6.4	30.5	32.6	29.9
2776	15 0.8	+ 23 29	7.3	28.8	32.7	29.7
2747	14 44.3	+ 23 31	7.9	88.5	32.5	89.8
2744	14 43.2	+ 23 38	7.0	88.0	32.5	89.4
2790	14 46.0	+ 24 23	6.8	88.2	32.6	89.3
2786	14 43.8	+ 24 31	5.8	88.0	32.8	89.4
2850	15 15.3	+ 24 52	7.0	31.3	32.6	30.0
2803	14 52.4	+ 24 45	6.8	88.8	32.6	89.4
2798	14 49.6	+ 24 59	6.7	88.6	32.6	89.4
2779	14 42.0	+ 24 38	6.1	87.8	32.6	89.3
2912	15 19.0	+ 25 19	7.3	31.6	32.5	29.8
2902	15 14.8	+ 25 29	6.0	31.2	32.6	29.8
2877	15 3.1	+ 25 13	7.3	30.1	32.6	29.8
2876	15 2.3	+ 25 40	6.3	30.1	32.7	29.9
2873	15 0.9	+ 25 27	4.8	29.9	32.6	29.8
2861	14 55.8	+ 25 35	4.7	89.2	32.7	89.4
2856	14 52.5	+ 25 38	7.0	88.9	32.6	89.5
2841	14 43.8	+ 25 20	7.0	87.9	32.5	89.4
2904	15 16.0	+ 25 46	7.7	30.0	32.6	29.6
2902	15 14.8	+ 25 39	6.0	30.2	32.3	29.7
2853	14 51.1	+ 25 54	7.5	88.1	32.7	89.5
2839	14 42.9	+ 25 46	6.8	87.9	32.6	89.5
2670	15 9.4	+ 26 11	6.8	30.8	32.6	29.9

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Plate 1374.

	V	H	Type	No. Lines	K	Focus	Other lines.	V.	H.	V.	H.	Correc.
	12.1	15.9	II	2	K=H	1	—	6.0	31.8	26.6	57.9	-0.2
?	11.7	13.9	III	2	K=H	2	F? Bright pcm.	5.8	27.8	26.8	61.9	+0.2
	11.0	20.8	I	6	N	2	F.	5.5	41.6	27.1	48.1	-0.7 (1.3)
?	10.5	9.5	II	2	K=H	2	F? pcm.	5.2	19.0	27.4	70.7	+0.3
	10.4	15.6	III	3	K=H	3	F. Bright pcm.	5.2	31.2	27.4	58.7 (5)	-0.2
?	10.5	18.4	II	2	K=H	1	pcm.	5.2	36.8	27.4	52.9	-0.8
	10.0	15.9	III	1	N	1	—	5.0	31.8	27.6	57.9	-0.2
	9.8	17.6	III	1	N	1	—	4.9	35.2	27.7	54.5	-0.6
	9.8	24.2	II?	2	K=H	?	F?	4.9	48.4	27.7	41.3 (2.5)	
	7.3	14.1	II	2	K=H	1	—	3.6	28.2	28.8 (2.9)	61.5	+0.2
	7.8	16.1	I	7	K=1.2H	2	—	3.9	32.2	28.7	57.5	-0.3
?	6.0	5.4	II?	3	K=H	5	F.	3.0	10.8	29.6	78.9	+2.9
	6.0	11.2	I	9	K=1.2H	4	F.	3.0	22.4	29.6	67.3	+1.0
?	6.0	15.6	II	2	K=H	1	pcm.	3.0	31.2	29.6	58.5	-0.1
	6.9	21.9	I	6	N	3	—	3.4	43.8	29.2	45.9	-1.8
?	5.0	8.7	III	2	K=H	2	F. Bright pcm.	2.5	17.4	30.1	72.3	+1.8
?	5.8	12.8	II	2	K=H	1	pcm.	2.9	25.6	29.7	64.1	+0.6
?	4.0	19.8	I	3	K=H	1	F. pcm.	2.0	39.6 (1)	30.6	50.1	-0.4
	3.6	7.5	II	3	K=1.2H	3	F.	1.8	15.0	30.8	74.7	+2.2
	2.6	9.7	III	2	K=H	1	—	1.3	19.4	31.3	70.3	+1.6
	2.8	12.8	II	2	K=H	1	—	1.4	25.6	31.2	64.4	0.8

Plate 1412 & 1411

	22.8	9.1	III	2	K=H	1	—					
	22.4	17.2	III	2	K=H	1	—					
	21.5	9.6	I	5	K=1.8H	1	—					
	20.6	5.3	I	7	K=H	3	F.					
?	20.7	10.0	II?	3	K=1.2H	3	F. Bright pcm.					

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	No.	R.A.	Dec.	Mag.	Th.	V.	H'	
0.2	2646	14 57.5	+26 36	7.7	89.3	32.6	89.5	
0.2	2656	15 2.1	+26 52	6.3	29.9	32.7	29.7	
1.3	2430	14 46.6	+27 4	7.8	88.2	32.6	89.5	
0.3	2477	15 12.2	+27 22	6.5	31.2	32.6	~~29.8~~ 29.9	
0.2	2447	14 58.2	+27 31	4.7	89.4	32.7	89.6	
0.8	2438	14 57.9	+27 24	7.0	88.7	32.6	89.5	
0.2	2446	14 57.6	+27 39	7.2	89.4	32.6	89.6	
0.6	2442	14 53.6	+27 44	8.3	88.8	32.6	89.4	
2.5	2417	14 ~~58.7~~ 58.3	+27 41	2.3	87.1	32.6	89.6	
0.2	2629	15 1.8	+29 4	7.3	30.0	32.7	29.8	
0.3	2391	14 56.9	+28 51	7.0	89.1	32.7	89.4	
2.9	2670	15 21.9	+29 36	4.0	32.7	32.6	29.8	
1.0	2640	15 8.5	+29 43	5.5	30.9	32.7	29.9	
0.1	2618	14 58.1	+29 37	7.8	89.3	32.6	89.4	
1.8	2581	14 43.7	+29 13	6.2	87.5	32.6	89.3	
1.8	2647	15 14.2	+30 8	6.0	31.6	32.6	29.8	
-0.6	2633	15 3.8	+29 47	7.3	29.4	32.7	28.8	?
-0.4	2582	14 48.5	+30 39	6.8	88.1	32.6	89.5	
2.2	2653	15 17.2	+30 49	5.2	32.2	32.6	30.0	
1.6	2719	15 12.2	+31 21	7.0	31.5	32.7	29.9	
0.8	2707	15 4.9	+31 13	8.2	30.4	32.6	29.7	

15 13.8 +1.2	3067	15 13.7	+1 14	6.1			*
16 38.0 +6.3	3288	16 37.9	+6 2.3	6.5			
16 53.5 +6.8	3332	16 53.4	+6 48	7.0			
15 21.4 +2.3	2965	15 21.3	+2 20	6.3			*
15 11.9 +2.3	2944	15 12.0	+2 19	5.0			*

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Plate 1412 & 1411.

	γ	H	Type	No. lines	K	Focus	Other lines.
	20,2	14,6	I	8	K=1,2H	3	F.
	20,8	15,1	III	2	K=H	1	—
?	20,0	18,0	III	3	K=H	3	F. Bright pecu.
	20,2	21,2	I	5	N	1	—
	19,0	6,8	II	2	K=H	1	—
	19,9	9,2	III	2	K=H	1	—
	19,5	16,0	III	2	K=H	1	—
	18,6	13,9	I	5	K=1,5H	1	—
?	18,2	16,2	II	2	K=H	1	F? pecu
?	18,4	19,0	II	3	K=H	1	F. pecu.
	17,9	8,8	I	7	N	2	F.
	17,9	12,8	III	2	K=H	1	—
	17,1	13,2	II	2	K=H	1	—
	17,6	16,7	III	2	K=H	2	Bright pecu.
?	17,4	21,3	II	3	K=H	1	F. pecu.
	17,1	22,3	III	2	K=H	1	—
	17,8	23,8	III	2	K=H	1	—
	16,8	6,3	I	5	K=H	1	—
	16,2	10,9	III	2	K=1,2H	4	F? Bright pecu.
?	16,0	14,2	II	2	K=H	2	pecu.
	16,6	14,9	I?	6	K=H	1	—
	16,4	15,3	II	2	K=H	1	—
	16,4	16,5	I	3	N	1	—
	15,4	6,7	III	1	N	1	—
	15,2	8,5	I	6	K=,2H	1	—
	15,2	9,8	I	4	N	1	—
	15,4	10,0	II	2	K=H	1	—
	15,6	13,5	III	2	K=H	1	—

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	No.	R.A	Dec.	Mag.	H.	V.	
16 43.1 +7.5	3256	16	43.3	+7	31	6.0	
15 1.8 +2.2	2919	15	1.6	+2	14	7.9	*
14 55.5 +2.7	2905	14	55.5	+2	40	4.7	*
16 29.9 +7.4	3209	16	29.8	+7	23	8.0	
16 59.0 +8.0	3346	16	59.0	+8	4	7.7	
16 54.2 +7.6	3287	16	54.3	+7	39	7.2	
14 59.8 +2.9	2915	14	59.8	+2	55	7.1	*
15 4.2 +3.3	2992	15	4.2	+3	23	8.0	*
14 59.0 +3.6	2974	14	59.2	+3	34	7.7	*
14 53.8 +3.5	2966	14	53.8	+3	28	7.3	*
16 55.0 +8.6	3337	16	55.0	+8	39	6.5	
16 47.0 +8.7	3298	16	47.1	+8	40	8.2	
15 5.5 +4.1	2980	15	5.5	+4	6	7.7	*
16 38.8 +8.9	3271	16	38.9	+8	50	5.6	
14 49.0 +4.0	2956	14	49.0	+3	59	7.2	*
16 27.4 +8.9	3229	16	27.5	+8	59	7.5	
16 24.6 +8.6	3215	16	24.5	+8	37	7.7	
17 0.2 +9.2	3325	17	0.2	+9	13	8.0	
16 50.6 +9.6	3298	16	50.8	+9	36	3.0	
16 44.2 +9.6	3287	16	44.2	+9	40	7.0	
15 2.0 +4.4	2970	15	2.2	+4	26	6.8	*
15 1.2 +4.5	2969	15	1.1	+4	29	8.0	*
14 58.5 +4.6	2963	14	58.7	+4	34	8.3	*
16 59.2 +9.9	3322	16	59.3	+9	57	6.8	
16 55.7 +10.0	3126	16	55.7	+10	2	7.2	
16 53.1 +10.0	3114	16	53.1	+10	1	7.7	
16 52.7 +9.9	3303	16	52.6	+9	56	8.2	
15 5.0 +4.9	2977	15	5.0	+4	53	8.3	*

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	T	H	Type	No. Lines	K	Focus	Other Lines.
10 √	15.0	14.2	III	3	K=H	1	F.
	15.1	15.3	III	1	N	1	—
	15.8	16.5	I	7	K=.5H	2	—
	15.6	17.2	III	1	N	1	—
	15.0	19.7	III	1	N	1	Bright Hein.
	15.6	20.6	I	√	K=H	1	—
	15.8	21.0	II	2	K=H	1	—
?	15.6	23.5	II	3	K=H	2	F. pecu.
	14.0	6.7	III	3	K=H	2	F.
	14.5	12.0	III	2	K=H	3	Bright pecu.
	14.6	12.7	I	11	N	√	F.
	14.5	17.7	II	2	K=H	1	—
	13.1	8.6	II	2	K=H	1	—
	13.1	9.6	II	3	K=H	1	F.
	13.0	9.9	III	2	K=H	1	—
	13.0	13.1	III	2	K=H	1	—
	13.8	15.0	III	1	N	1	—
	13.4	15.6	III	2	K=H	2	—
	13.2	16.3	I	6	K=.8H	2	—
	13.4	17.4	I	7	K=.5H	2	—
	13.4	20.9	III	2	K=H	1	—
	13.4	21.0	I	√	K=H	1	—
	13.2	21.0	II	2	K=H	1	—
	13.8	23.6	I	√	N	2	—
	12.3	8.0	III	1	N	1	—
	12.5	9.1	I	√	N	1	—
	12.1	9.2	II	2	K=H	1	—
	12.2	13.3	I	√	N	1	—

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	No.	R.A.	Dec.	Mag.	H.	V.	
16 44.1 +10.1	3083	16	44.2	+10	8	7.3	
16 41.8 +10.0	3075	16	41.6	+10	1	8.1	
14 58.6 +4.8	2964	14	58.8	+4	48	7.3	*
16 37.9 +9.8	3264	16	37.8	+9	47	8.2	
14 52.0 +5.2	2954	14	52.2	+5	9	6.2	*
16 31.0 +9.8	3241	16	31.0	+9	47	8.2	
14 49.6 +4.8	2940	14	49.7	+4	44	8.2	*
16 25.0 +9.7	3218	16	25.0	+9	44	6.8	
16 59.3 +10.6	3142	16	59.4	+10	39	6.8	
15 8.0 +5.5	2985	15	8.0	+5	29	5.3	*
16 47.0 +10.3	3092	16	47.1	+10	25	4.1	
14 56.1 +5.4	2962	14	56.1	+5	24	7.5	*
15 14.9 +6.1	3026	15	14.8	+6	7	7.8	*
16 53.3 +11.0	3086	16	53.4	+11	3	7.6	
16 53.0 +11.1	3085	16	53.0	+11	9	7.5	
16 46.4 +11.1	3065	16	46.4	+11	7	7.1	
15 2.0 +5.8	2977	15	1.9	+5	45	8.5	*
15 0.6 +6.0	3001	15	0.5	+6	3	6.3	*
14 59.0 +6.1	2995	14	59.1	+6	6	7.2	*
14 57.0 +6.0	2983	14	57.0	+6	4	6.3	*
14 50.0 +6.0	2963	14	49.9	+6	1	8.0	*
14 48.8 +5.9	2945	14	49.5	+5	59	8.0	? *
16 30.0 +11.0	3015	16	29.9	+11	1	8.0	
16 26.8 +10.9	3025	16	26.7	+10	41	7.0	
15 16 +6.5	3030	15	16.0	+6	34	8.2	*
16 54.5 +11.4	3092	16	54.6	+11	23	8.0	
	~~3091~~	~~16~~	~~54.3~~	~~+11~~	~~33~~	~~7.5~~	
16 54.2 +11.5	3091	16	54.3	+11	33	7.5	
16 46.1 +11.5	3063	16	46.2	+16	33	8.0	

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	r	H	Type lines	K	Focus lines	Other	
	12,4	13,5	III	1	N	1	—
	12,6	15,5	III	2	K=H	1	—
	12,7	16,1	III	1	N	1	—
	11,5	11,6	III	2	K=H	1	—
	11,8	15,6	III	2	K=H	1	—
	11,8	22,5	III	2	K=H	1	—
?	11,6	23,1	III	2	K=H	2	neb.
	10,6	6,3	II	2	K=H	1	—
	10,0	17,6	III	1	N	1	—
	10,0	18,9	II	8	K=1,2H	3	F.
	9,4	7,1	I	8	K=1,2H	4	F.
	9,8	14,0	III	1	N	1	—
	9,0	15,0	III	2	K=H	1	—
	9,0	17,8	III	1	N	1	—
	9,0	19,2	II	1	N	1	—
	9,1	19,2	III	1	N	1	—
	9,4	20,1	II	2	K=H	1	—
	9,1	20,3	I	4	N	1	—
	8,8	10,7	II	2	K=H	1	—
	8,5	14,8	I	10	K=1,2H	3	F.
	8,5	17,9	I	3	N	1	—
	8,5	18,5	III	2	K=H	1	—
	8,9	21,0	II	2	K=H	1	—
	7,5	7,4	III	2	K=H	1	—
	7,8	7,8	III	2	K=H	1	—
	7,8	8,0	II	7	N	3	F.
?	7,12	10,9	III?	2	K=H	2	Bright neb.
?	7,8	12,1	III?	4	K=H	2	neb.

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	No.	R.A.	Dec.	Mag.	
16 45.8 +11.5	3061	16	45.3 +11 31	7.0	
16 41.3 +11.4	3045	16	41.3 +11 25	7.3	
14 59.5 +6.3	2996	14	59.5 +6 21	8.5	*
15 9.0 +7.0	2926	15	8.8 +7 0	7.5	*
15 0.5 +6.9	3000	15	0.4 +6 50	8.2	*
14 46.4 +6.9	2957	14	46.3 +6 57	6.7	*
16 25.9 +11.8	3008	16	25.8 +11 49	5.2	
17 0.4 +12.3	3152	17	0.4 +12 18	8.0	
16 36.9 +12.7	3069	16	36.8 +12 41	7.1	
16 34.1 +12.7	3063	16	34.1 +12 42	6.0	
16 58.7 +12.9	3142	16	58.7 +12 57	4.5	
15 3.9 +7.9	2909	15	3.9 +7 52	8.2	*
16 42.4 +13.2	3230	16	42.4 +13 11	6.8	
16 36.6 +13.1	3205	16	36.5 +13 10	7.0	
14 53.2 +8.3	2957	14	53.3 +8 20	8.5	
	~~2955~~	~~14~~	~~53.2 +8 13~~	~~7.3~~	*
14 53.2 +8.2	2956	14	53.2 +8 13	7.3	*
16 31.8 +12.9	3054	16	31.8 +12 56	7.2	
14 46.6 +8.2					*
15 10.5 +8.3	3005	15	10.5 +8 23	8.1	*
16 42.8 +13.5	3233	16	42.9 +13 31	5.6	
14 55.8 +8.5	2963	14	55.7 +8 28	8.0	*
16 35.0 +13.4	3195	16	35.1 +13 27	7.8	
14 49.3 +8.2	2944	14	49.4 +8 16	8.7	*
15 17.4 +9.0	3023	15	17.3 +8 60	8.0	*
16 57.2 +13.8	3295	16	57.3 +13 47	6.6	?
16 57.0 +13.8	3292	16	57.0 +13 49	6.4	
16 51.0 +14.1	3155	16	50.9 +14 7	6.5	
16 48.6 +13.9	3258	16	48.6 +13 52	6.3	

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Plate 1412 & 1411.

	T	H	Type	No. lines	K	Focus	Other lines.	
	7.4	13.7	I	√	N	1	—	15
	7.7	15.4	III	2	K=H	2	—	16
	7.6	17.1	I	√	K=H	1	—	16
	7.1	19.0	II	2	K=H	1	—	14
	7.4	19.3	III	2	K=H	1	—	14
?	7.4	20.4	II	2	K=H	2	perm.	16
	7.8	22.3	III	2	K=H	1	—	16
	6.8	8.2	III	2	K=H	2	Bright perm.	16
?	6.6	9.1	II	2	K=H	1	—	15
	6.8	10.1	II	2	K=H	1	—	16
	6.7	11.3	III	2	K=H	1	—	16
	6.8	14.5	III	1	N	1	—	16
	6.6	15.5	III	1	N	1	—	15
	6.0	15.6	II	2	K=H	2	—	15
	6.6	15.7	III	2	K=H	1	—	15
	5.0	8.9	I	7	N	3	F.	16
	5.0	11.2	I	7	K=.5H	2	F	15
	5.0	13.5	I	7	N	3	F.	15
	5.2	20.1	I	√	K=.5H	1	—	14
?	5.9	20.8	II	2	K=H	2	F? perm.	16
	4.4	6.7	III	2	K=H	1	—	16
	4.0	10.4	II	2	K=H	1	—	16
	4.2	11.7	I	√	K=H	1	—	15
	4.0	12.9	I	6	K=.5H	1	—	15
	4.0	13.5	I	7	K=.2H	2	—	15
?	4.1	14.6	II	2	K=H	1	perm.	16
	4.2	15.1	III	2	K=H	1	—	1
	3.4	7.4	I	√	K=H	1	—	15

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	No.	R.A.	Decl.	Mag.	
15 4.6 +9.0	3006	15 4.5	+9 4	8.2	*
16 41.4 +13.9	3225	16 41.5	+13 51	5.9	
16 37.9 +13.9	3207	16 37.9	+13 53	8.0	
14 53.7 +9.1	2985	14 53.7	+9 11	8.9	?
	2983	14 53.5	+9 11	7.7	*
14 53.0 +9.0	2978	14 52.8	+9 3	8.1	*
16 31.0 +13.9	3177	16 31.1	+13 60	6.0	
16 27.0 +13.7	3167	16 27.1	+13 43	7.2	
16 36.5 +14.3	3179	16 36.5	+14 20	4.8	
15 13.8 +9.4	3025	15 13.7	+9 27	7.9	*
16 52.5 +14.3	3161	16 52.6	+14 18	6.8	
16 50.1 +14.4	3148	16 50.0	+14 23	6.5	
16 43.3 +14.3	3125	16 43.4	+14 18	8.3	
15 1.0 +9.4	3001	15 0.8	+9 27	8.7	? *
15 0.8 +9.8	3006	15 0.6	+9 48	7.0	*
15 0.3 +9.5	2999	15 0.3	+9 32	7.7	*
16 55.0 +15.2	3095	16 55.0	+15 9	6.2	
15 9.8 +10.2	2818	15 9.6	+10 14	7.0	*
15 5.0 +10.3	2805	15 4.9	+10 20	7.3	*
14 51.4 +10.0	2769	14 51.5	+10 5	7.9	*
16 30.2 +14.8	3086	16 30.3	+14 46	6.8	
16 56.9 +15.4	3102	16 57.0	+15 26	8.8	?
16 52.1 +15.7	3089	16 52.1	+15 42	6.8	
15 8.8 +10.7	2816	15 8.6	+10 39	7.1	*
16 46.5 +15.6	3072	16 46.8	+15 39	7.8	
15 5.0 +10.8	2804	15 4.8	+10 46	7.1	*
16 43.6 +15.6	3058	16 43.4	+15 39	6.8	
15 1.5 +10.7	2797	15 1.4	+10 41	8.0	*
15 17.2 +11.0	2800	15 17.3	+11 4	7.3	*

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Plate 1412 & 1411.

	r	H	Type	Lines	K	Focus	Lines. Other	
?	3,6	10,1	III	2	K=H	1	diff.	15
?	3,7	12,5	II	2	K=H	1	diff.	16
	3,0	13,0	III	3	K=H	1	F.	15
	3,4	14,0	I	6	K=.5H	1	—	16
	3,8	15,8	II	1	H	1	—	15
?	3,5	16,7	III	1	H	1	F, Bright? F, diff	16
	3,8	20,8	I	6	H	2	—	16
	2,6	5,7	II	2	K=H	1	—	17
?	2,4	7,1	III?	2	K=H	1	diff.	15
	2,4	11,4	I	5	K=.8H	1	—	16
?	3,0	24,2	I	4	?	1	diff	14

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	No.	R.A.	Dec.	Mag.	
15 11.8 + 10.9	2823	15 11.8	+ 10 58	6.8	*
16 47.6 + 15.9	3077	16 47.6	+ 15 53	7.3	
15 6.0 + 11.2	2780	15 5.9	+ 11 14	6.7	*
16 44.7 + 16.0	3057	16 44.6	+ 16 3	7.5	
15 0.2 + 10.9	2789	15 0.2	+ 10 52	8.0	*
16 38.6 + 16.0	3013	16 38.8	+ 16 1	6.1	
16 30.1 + 15.8	3029	16 30.1	+ 15 48	6.5	
17 1.9 + 16.2	3102	17 1.7	+ 16 17	6.5	
15 18.0 + 11.5	2801	15 17.9	+ 11 30	7.3	*
16 49.9 + 16.5	3069	16 49.9	+ 16 32	7.2	
14 42.9 + 11.1	2730	14 42.8	+ 11 6	7.4	*

Stars marked with an asterisk are on Plate 1411.
Those having no asterisk are on Plate 1412.

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Plate 1319.

	V	H	Type	No. Lines	K	Focus	Other lines	V.	H.	V.	H.
11 10	22.6	7.2	II	6	N	3	—	11.3	14.4	6.2	38.1
	22.5	18.7	II	2	K=H	1	—	11.2	37.4	6.3	15.1
?	21.0	7.8	III	3	K=2.5H?	V	F. Bright prem.	10.5	15.6	7.0	36.9
	21.4	11.8	II	V	K=.5H	1	—	10.7	23.6	6.8	28.9
	21.5	15.8	III	2	K=H	1	—	10.8	31.6	6.7	20.9
	20.0	8.4	III	2	K=H	1	—	10.0	16.8	7.5	35.7
	20.7	21.6	III	3	K=H	1	F.	10.4	43.2	7.1	9.3
?	19.1	6.7	II	3	K=2.5H	4	F. prem.	9.6	13.4	7.9	39.1
	19.2	11.6	III	2	K=H	1	—	9.6	23.2	7.9	29.3
	18.6	7.9	II	4	K=H	1	—	9.3	15.8	8.2	36.7
	18.2	8.7	II	2	K=H	1	—	9.1	17.4	8.4	35.1
	18.4	17.2	III	1	N	1	—	9.2	34.4	8.3	18.1
	18.1	20.8	II	1	N	1	—	9.0	41.6	8.5	10.9
	16.8	13.6	III	2	K=H	1	—	8.4	27.2	9.1	25.3
	16.8	14.4	II	7	K=H	2	—	8.4	28.8	9.1	23.7
	17.0	17.4	II	2	K=H	1	F?	8.5	34.8	9.0	17.7
?	16.1	19.2	II	3	K=H	2	F. prem.	8.0	38.4	9.5	14.1
	16.6	23.7	II	V	K=H?	1	—	8.3	47.4	9.2	5.1
	15.3	9.3	III?	1	N	1	—	7.6	18.6	9.9	33.9
	15.6	10.0	II	2	K=H	1	—	7.8	20.0	9.7	32.5
	15.2	13.0	II	3	K=H	1	F.	7.6	26.0	9.9	26.5
	14.4	6.6	II	6	N	2	F?	7.2	13.2	10.3	39.3
?	14.6	8.7	II	2	K=H	1	prem.	7.3	17.4	10.2	35.1
?	14.0	11.6	III	2	K=H	3	Bright prem.	7.0	23.2	10.5	29.3
	14.5	13.8	III	1	N	1	—	7.2	27.6	10.3	24.9
	14.5	15.9	III	3	K=H	1	F.	7.2	31.8	10.3	20.7
	14.5	21.2	II	V	N	2	F?	7.2	42.4	10.3	10.1
?	13.4	10.9	II	3	K=H	1	F. prem.	6.7	21.8	10.8	30.7

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No.	R. A.	Dec.	Mag.	H.	V.
3072	15 38.2	+ 5 57	6.7	52.6	17.2
3026	15 14.8	+ 6 7	7.8	52.2	17.3
3088	15 37.2	+ 6 53	2.2	52.8	17.4
3069	15 28.9	+ 6 38	7.5	52.8	17.3
3048	15 20.5	+ 6 37	8.0	52.1	17.4
3010	15 35.8	+ 7 21	7.5	52.6	17.4
2926	15 8.8	+ 7 0	7.1	52.0	17.4
3023	15 39.4	+ 7 49	5.0	52.8	17.4
2992	15 29.4	+ 7 41	8.7	52.6	17.2
3073	15 36.9	+ 8 4	8.5	52.7	17.4
3066	15 35.2	+ 8 17	7.5	52.6	17.4
3026	15 17.9	+ 8 18	8.0	52.3	17.5
3005	15 10.5	+ 8 23	8.1	52.1	17.4
3062	15 25.4	+ 9 5	8.7	52.6	17.5
3055	15 23.9	+ 9 5	6.7	52.7	17.4
3023	15 17.3	+ 8 60	8.0	52.1	17.5
3025	15 13.7	+ 9 27	7.9	52.1	17.4
2992	15 5.4	+ 8 59	8.8	52.8	17.3
3083	15 34.1	+ 9 46	8.1	52.7	17.4
3081	15 32.7	+ 9 36	8.3	52.7	17.4
3066	15 26.7	+ 9 57	8.2	53.7	17.4
2904	15 39.8	+ 10 15	7.4	52.0	17.8
2893	15 35.3	+ 10 7	8.1	52.7	17.4
2884	15 29.5	+ 10 30	6.2	52.7	17.5
2868	15 24.9	+ 10 9	8.5	52.5	17.4
2854	15 20.3	+ 10 13	8.0	52.1	17.4
2818	15 9.6	+ 10 14	7.0	52.0	17.4
2886	15 31.0	+ 10 44	7.3	52.8	17.4

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Plate 1319 No. 1

	V	H	Type	Lines	K	Focus	Other Lines.	V.	H.	V.	H.
	13.0	12.4	I?	13	K=.5H	V	F.	6.5	24.8	18.0	27.7
	14.9	16.3	III	1	N	1	—	7.4	32.6	10.1	19.9
?	13.0	20.1	II	3	K=H	2	F, neu.	6.5	40.2	11.0	12.3
	13.5	21.7	I	6	K=H	2	—	6.8	43.4	10.7	9.1
	14.1	23.5	III	2	N	1	F.	7.0	47.0	10.5	5.5
	13.4	23.5	I	6	N	2	F.	6.7	47.0	10.8	5.5
	13.5	23.6	II	1	N	1	—	6.8	47.2	10.7	5.3
	12.7	10.5	III	3	K=H	1	—	6.4	21.0	11.1	31.5
	12.1	13.4	II	2	K=H	1	—	6.0	26.8	11.5	25.7
	12.8	17.4	I	V	?	2	—	6.4	34.8	11.1	17.7
	12.8	18.5	I	4	N	1	—	6.4	37.0	11.1	15.5
	11.4	7.6	II	2	K=H	1	—	5.7	15.2	11.8	37.3
	11.1	7.6	III	2	K=H	1	—	5.6	15.2	11.9	37.3
	11.6	11.1	III	2	K=H	1	—	5.8	22.2	11.7	30.3
?	11.5	11.9	III	3	K=H	2	F, neu.	5.8	23.8	11.7	28.7
?	11.9	17.1	II	2	K=H	1	neu.	6.0	34.2	11.5	18.3
	10.9	6.4	I	V	K=H	1	—	5.4	12.8	12.1	39.7
	10.6	8.2	III	1	N	1	—	5.3	16.4	12.2	36.1
	10.5	11.3	III	1	N	1	—	5.2	22.6	12.3	29.9
	10.0	14.6	III	3	K=H	1	F.	5.0	29.2	12.5	23.3
	10.4	15.5	I	6	K=H	2	—	5.2	31.0	12.3	21.5
	10.4	17.1	II	1	N	1	—	5.2	34.2	12.3	18.3
?	9.9	9.8	III	3	K=H	2	F, neu.	5.0	19.6	12.5	32.9
	9.5	10.5	I	6	N	2	—	4.8	21.0	12.7	31.5
	9.4	11.1	I	6	K=H	2	—	4.7	22.2	12.8	30.3
	9.0	18.3	I	8	K=.2H?	3	—	4.5	36.6	13.0	15.9
	8.4	9.0	I	10	K=.2H?	4	F.	4.2	18.0	13.3	34.5
?	8.2	11.9	II	2	K=H	1	neu.	4.1	23.8	13.4	28.7

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No.	R. A.		Dec.		Mag.	H.	V.
2821	15	27.9	+ 11	2	3.3	52.7	17.6
2854	15	20.3	+ 10	13	8.0	52.9	17.6
2823	15	11.8.	+ 10	58	6.8	52.0	17.5
2816	15	8.6	+ 10	39	7.1	52.0	17.4
2805	15	4.9	+ 10	20	7.3	51.9	17.3
~~2810~~	~~15~~	~~6.6~~	~~+ 10~~	~~7~~	~~8.3~~	~~53.0~~	
2804	15	4.8	+ 10	46	7.1	51.8	17.5
2803	15	4.7	+ 10	41	7.8	51.9	17.5
~~2808~~	~~15~~	~~4.8~~	~~+ 10~~	~~20~~	~~7.3~~	~~52.7~~	
2834	15	31.9	+ 11	6	7.4	52.9	17.5
2816	15	25.8	+ 11	28	7.2	52.6	17.5
2800	15	17.3	+ 11	4	7.3	52.1	17.5
2794	15	15.0	+ 11	3	8.4	52.0	17.5
2853	15	37.7	+ 11	45	7.5	52.9	17.5
2854	15	37.7	+ 11	53	7.6	52.9	17.5
2833	15	30.7	+ 11	37	7.5	52.7	17.4
2886	15	29.0	+ 11	44	6.3	52.8	17.5
2801	15	17.9	+ 11	30	7.3	52.1	17.5
2864	15	40.2	+ 11	59	7.5	53.0	17.4
2883	15	36.5	+ 12	10	7.0	52.9	17.5
2861	15	29.9	+ 12	5	7.7	52.5	17.3
2844	15	23.5	+ 12	29	7.5	52.7	17.5
2838	15	21.2	+ 12	22	7.0	52.2	17.6
2831	15	17.9	+ 12	16	8.3	52.1	17.5
2875	15	33.3	+ 12	32	6.5	52.9	17.5
2870	15	31.9	+ 12	45	7.2	52.9	17.6
2863	15	30.6	+ 12	47	7.0	52.8	17.5
2928	15	15.5	+ 13	6	6.4	52.1	17.6
2982	15	35.0	+ 13	18	5.5	53.0	17.5
2969	15	29.0	+ 13	25	7.5	52.8	17.5

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Plate 1319

	V	H	Type	No. Lines	K.	Focus	Other Lines.	V.	H.	V.	H.	
	8,1	15,0	III	3	K = H	1	F.	4.0	30.0	13.5	22.5	
?	7,3	16,0	III	2	K = H	1	Rem.	3.6	32.0	13.9	20.5	
	7,3	18,0	III	2	K = H	1	—	3.6	36.0	13.9	16.5	
	7,0	18,8	III	1	N	1	—	3.5	37.6	14.0	14.9	
	7,0	21,3	III	1	N	1	—	3.5	42.6	14.0	9.9	
	6,4	15,9	III	3	K = H	1	F	3.2	11.8	14.3	40.7	
	6,4	5,8	III	1	N	1	—	3.2	13.6	14.3	38.9	
	6,7	8,3	III	2	K = H	2	—	3.4	16.6	14.1	35.9	
	6,8	6,3	II	6	?	3	F?	2.9	12.6	14.6	39.9	
	4,2	11,5	II	8	K = 1,2 H	2	—	2.1	23.0	15.4	29.5	
	4,6	16,3	II	3	K = H	1	F.	2.3	32.6	15.2	19.9	
	3,2	6,9	II	9	?	5	F.	1.6	13.8	15.9	38.7	
	3,4	15,0	III	1	N	1	—	1.7	30.0	15.8	22.5	
?	3,3	16,6	III	3	K = H	2	F. Bright pairs.	1.6	33.2	15.9	19.3	
?	2,9	6,7	II	4	K = H?	1	F. Rem.	1.4	13.4	16.1	39.1	
	2,0	9,4	III	3	K = H	2	F.	1.0	18.8	16.5	33.7	
	2,0	13,7	II	7	N	3	F?	1.0	27.4	16.5	25.1	
	2,1	13,2	III	2	K = H	1	—	1.0	26.4	16.5	26.1	
	1,9	11,6	II	5	K = 1,8 H	3	F?	1.0	23.2	16.5	29.3	

Plate 1417

	19,0	9,6	II	4	N	2	—	~~10.0~~ 9.5	19.2	~~32.6~~ 33.1	71.3+	2.5
	19,5	19,4	II	5	?	2	F.	9.8	38.8	32.8	41.7-	2.3
	18,3	8,6	II	8	N	3	F.	9.2	17.2	33.4	73.3+	3.0
	18,5	20,7	III	2	K = H	1	—	9.2	41.4	33.4	49.1-	2.9
	17,0	13,3	III	1	N	1	—	8.5	20.6	34.1	69.9+	2.3
?	17,6	11,3	III	3	K = 1,5 H?	4	F. Bright pairs.	8.8	22.6	33.8	67.9+	1.8
	15,4	6,8	III	2	K = H	1	—	7.8	13.6	34.8	76.9+	4.5

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No	R.a.	Dec	Mag.	Lt.	V.	H.			
2953	15	22.3	+ 13	33	6.8	52.3	17.6		
2946	15	20.4	+ 13	54	7.2	52.4	17.5		
2930	15	16.1	+ 13	54	7.8	52.1	17.5		
2863	15	14.5	+ 14	3	7.8	52.1	17.5		
2853	15	9.3	+ 14	1	6.8	51.9	17.5		
2939	15	40.5	+ 14	34	6.0	52.3	17.8		
2935	15	39.6	+ 14	11	8.1	53.2	17.4		
2922	15	36.4	+ 14	8	6.8	53.0	17.5		
2939	15	40.5	+ 14	34	6.0	53.1	17.5		
2890	15	29.8	+ 15	34	6.7	52.8	17.7		
2862	15	19.6	+ 15	13	8.0	52.5	17.5		
2911	15	39.5	+ 15	53	3.3	53.3	17.5		
2871	15	22.4	+ 15	48	8.2	52.4	17.5		
2858	15	19.1	+ 15	56	4.8	52.3	17.5		
2913	15	39.7	+ 15	59	7.1	53.1	17.4		
2814	15	33.0	+ 16	47	6.5	51.8	17.8		
2797	15	25.5	+ 16	33	6.2	52.9	17.6		
2799	15	26.4	+ 16	31	7.0	52.8	17.5		
2807	15	29.8	+ 16	36	6.0	53.0	17.6		
2574	15	13.6	+ 33	4	6.8	32.8	42.6	30.3	
2531	14	50.0	+ 32	54	6.3	88.8	42.7	91.1	
2581	15	16.0	+ 33	27	5.5	33.2	42.6	30.2	
2507	14	46.9	+ 33	17	7.0	88.3	42.5	91.2	
2626	15	12.1	+ 34	8	7.3	32.7	42.6	30.4	
2561	15	8.7	+ 33	52	3.0	31.3	42.7	29.4	
2645	15	20.6	+ 34	57	6.0	34.2	42.5	29.7	

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Plate 1417.

	V	H	Type	No. Lines	K	Focus	Other lines,	V.	H.	V.	H.
	15.1	16.1	III	1	N	1	—	7.6	32.2 8.8	35.0	58.3 − 0.6 82.5 *
?	13.9	16.3	III	3	K=H	2	F. Bright nebs.	7.0	32.6 8.2	35.6	57.9 − 0.7 83.3 *
	13.1	12.7	II	2	K=H	1	—	6.6	37.4 7.4	36.6	53.1 − 2.3 81.1 *
?	11.4	14.9	II	3	K=H	2	F, neb.	5.7	29.8 7.4	39.9	60.7 + 0.0 83.1 *
	9.5	7.8	I	10	K=√H?	4	F.	4.8	15.6 3.9	37.8	74.9 + 4.5 86.6 *
?	9.6	11.2	III	2	K=H	2	neb.	4.8	23.4 5.6	37.8	68.1 + 2.3 84.9 *
	8.5	21.7	I	7	K=H	2	F.	4.2	43.4 10.8	38.4	47.1 − 4.2 79.7 *
	7.7	21.6	I	4	K=H	1	—	3.8	43.2 10.3	38.8	47.3 − 4.5 80.2 *
	7.8	12.2	III	1	N	1	—	3.9	24.4 6.1	38.7	66.1 + 1.8 81.4 *
	6.6	6.3	II?	1	N	1	—	3.3	12.6 3.2	39.3	77.9 + 6.0 87.3 *
	5.1	8.7	III	1	N	1	—	2.6	17.4 4.4	40.0	73.1 + 4.5 86.1 *
	5.9	17.5	I	9	K=H	3	F.	3.0	35.0 8.8	39.6	55.5 − 1.7 81.7 *
	5.0	17.6	I	4	K=H	1	—	2.5	35.2 8.8	40.1	55.3 − 1.7 81.7 *
?	3.7	16.6	III	3	K=H	4	F. Bright neb.	1.8	33.2 8.3	40.8	57.3 − 1.3 82.2 *

Plate 1446.

	22.5	6.7	I	5	N	2	—	11.2	13.4	1.5	38.1
	22.2	14.6	I	7	K=√H	2	F.	11.1	29.2	1.6	22.3
	21.9	5.9	I	6	K=√H	1	—	11.0	11.8	1.7	39.7
?	21.8	16.4	I	4	N	1	neb.	10.9	32.8	1.8	18.7
	21.4	17.8	II	2	K=H	1	—	10.7	35.6	2.0	15.9
	21.1	23.6	II	2	K=H	1	—	10.6	47.2	2.1	4.3
	20.3	6.3	I	8	N	√	F.	10.2	12.6	2.5	38.9
?	20.3	7.8	I	4	N	1	neb.	10.2	15.6	2.5	35.9
	20.√	15.9	III?	1	N	1	—	10.2	31.8	2.5	39.7
	19.√	10.7	II	3	K=H	1	F.	9.8	21.4	2.9	30.1
	19.4	18.0	II	2	K=H	1	—	9.7	36.0	3.0	15.5
	19.2	23.2	I	9	K=1/2H?	4	F.	9.6	46.4	3.1	5.1

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No.	R. A.	Dec.	Mag.	H.	V.	H′
2644	15h 4m 57.8	+35 7	7.1	9 80.0	42.7	90.6
2642	15h 4m 57.3	+35 47	5.8	89.9	42.8	90.6
2555	15h 4m 51.3	+36 5	7.2	88.7	42.7	91.0
2608	15h 0.9	+37 1	6.1	30.7	42.7	30.7
2636	15h 19.0	+37 53	4.0	34.6	42.7	30.1
2625	15h 10.8	+37 36	6.8	33.2	42.4	30.9
2593	15h 4m 43.4	+38 24	6.2	86.8	42.6	91.8 0
	15h 4m	+				
2629	15h 8.1	+38 48	6.0	32.5	42.7	30 29.7
2875	15h 23.1	+39 15	7.0	35.7	42.5	29.7
2877	15h 17.3	+40 6	5.5	34.7	42.7	30.2
2820	15h 4m 54.1	+39 51	5.5	89.1	42.8	90.8
2835	15h 4m 53.9	+40 13	6.5	89.1	42.7	90.8
2840	15h 4m 56.5	+40 58	3.0	89.7	42.8	91.0

2972	14h 38.2	+1 19	6.5	51.6	12.5
2941	14h 22.5	+1 28	6.1	51.7	12.6
2981	14h 39.7	+1 35	7.2	51.7	12.6
2927	14h 18.6	+1 39	7.0	51.4	12.5
2920	14h 15.9	+1 56	6.5	51.5	12.6
2783	14h 4.2	+2 3	6.6	51.4	12.6
2862	14h 38.9	+2 30	4.0	51.5	12.7
2855	14h 35.9	+2 27	7.7	51.5	12.6
2821	14h 19.7	+2 23	7.7	51.5	12.6
2844	14h 30.2	+2 54	6.9	51.6	12.7
2806	14h 15.4	+2 56	7.8	51.4	12.6
2867	14h 4.9	+3 6	4.8	51.3	12.7

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Plate 1446.

			No.			Other					
T	H	Type	Lines	K	Focus	Lines.	V.	H.	V.	H.
18.4	15.1	II	2	K=H	1	—	9.2	30.2	3.5	21.3
17.1	11.6	III	2	K=H	1	—	8.6	23.2	4.1	28.3
17.6	21.7	III	2	K=H	1	—	8.8	43.4	3.9	8.1
17.2	21.9	III	2	K=H	1	—	8.6	43.8	4.1	7.7
16.7	12.9	II	1	N	1	—	8.4	25.8	4.3	25.7
16.8	15.5	III	2	K=H	1	—	8.4	31.0	4.3	20.5
16.1	16.7	I	4	K=H	1	—	8.0	33.4	4.7	18.1
16.6	20.1	III	2	K=H	1	—	8.3	40.2	4.4	11.3
16.4	20.4	II	2	K=H	1	—	8.2	40.8	4.5	10.7
14.6	14.0	III	2	K=H	2	—	7.3	28.0	5.4	23.5
14.4	16.4	I	4	K=H	1	—	7.2	32.8	5.5	18.7
13.9	9.4	III	2	K=H	1	—	7.0	18.8	5.7	32.7
13.5	12.9	III	3	K=H	2	F.	6.8	25.8	5.9	25.7
13.1	22.6	II	1	N	1	—	6.6	45.2	6.1	6.3
12.2	15.8	III	2	K=H	1	—	6.1	31.6	6.6	19.9
12.2	15.9	III?	1	N	1	—	6.1	31.8	6.6	19.7
12.9	16.7	II	2	K=H	1	—	6.4	33.4	6.3	18.1
12.6	17.2	I	10	K=1.2H	4	F.	6.3	34.4	6.4	17.1
12.2	19.5	I?	3	N	1	—	6.1	39.0	6.6	12.5
? 11.0	8.0	II?	3	K=H	1	F. neu	5.5	16.0	7.2	35.5
11.6	12.7	II	2	K=H	1	—	5.8	25.4	6.9	26.1
11.3	17.5	II	2	K=H	1	—	5.6	35.0	7.1	16.5
11.9	21.1	II	2	K=H	1	—	6.0	42.2	6.7	9.3
11.9	21.2	II	2	K=H	1	—	6.0	42.4	6.7	9.1
10.3	12.9	II	2	K=H	1	—	5.2	25.8	7.5	25.7
10.4	13.1	II	2	K=H	1	—	5.2	26.2	7.5	25.3
8.0	7.9	I	4	K=H	1	—	4.0	15.8	8.7	35.7
? 8.0	8.5	III	3	K=H	3	F. neu.	4.0	17.0	8.7	34.5

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No.	R.A.	Dec	Mag.	H.	V.	
2896	14 21.3	+ 3	26	7.3	51.5	12.6
2885	14 28.3	+ 4	6	7.7	51.5	12.7
2874	14 8.1	+ 3	48	7.5	51.5	12.6
2841	14 7.6	+ 4	0	6.7	51.3	12.6
2879	14 25.7	+ 4	19	8.0	51.5	12.7
2865	14 20.5	+ 4	17	8.0	51.5	12.7
2862	14 18.1	+ 4	36	8.3	51.5	12.6
2847	14 11.2	+ 4	21	7.5	51.4	12.7
2844	14 10.4	+ 4	26	8.2	51.2	12.6
2886	14 23.5	+ 5	25	6.3	51.5	12.7
2879	14 18.7	+ 5	30	7.8	51.5	12.7
2903	14 32.9	+ 5	41	8.0	51.7	12.7
2889	14 25.8	+ 5	58	7.2	51.6	12.8
2856	14 6.2	+ 6	4	7.8	51.4	12.7
2884	14 19.8	+ 6	37	7.8	51.4	12.7
2883	14 19.5	+ 6	36	7.5	51.3	12.7
2878	14 17.8	+ 6	16	7.7	51.2	12.7
2875	14 17.0	+ 6	29	5.5	51.4	12.8
2869	14 12.4	+ 6	33	8.2	51.4	12.6
2830	14 35.7	+ 7	12	7.6	51.7	12.7
2905	14 26.2	+ 6	56	8.2	51.6	12.7
2775	14 16.4	+ 7	4	8.3	51.4	12.7
2863	14 9.1	+ 6	44	7.3	51.3	12.7
~~2863~~	~~14 9.1~~	+ 6	~~44~~	~~7.3~~		
2803	14 25.8	+ 7	36	8.0	51.6	12.8
2799.	14 25.2	+ 7	32	8.3	51.4	12.7
2908	14 35.8	+ 8	43	8.0	51.6	12.7
2903	14 34.5	+ 8	47	5.5	51.5	12.8

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Plate 1446.

V	H	Type	No. Lines	K	Focus	Other Lines.	V.	H.	V.	H.	Corr.
8.0	17.1	III	2.	K=H	1	—	4.0	34.2	8.7	17.3	
7.9	6.6	III	3	K=H	1	F.	4.0	13.2	8.7	38.3	
7.5	14.2	II	2	K=H	1	—	3.8	28.4	8.9	23.1	
7.5	15.9	I	8	N	2	F.	3.8	31.8	8.9	19.7	
7.8	17.2	I	9	K=.2H	3	F.	3.9	34.4	8.8	17.1	
7.4	17.5	I	11	K=.2H	4	F.	3.7	35.0	9.0	16.5	
7.0	19.0	III	3	K=H	1	F.	3.5	38.0	9.2	13.5	
4.7	11.3	III	2	K=H	1	—	2.4	22.6	12.3	28.9	
4.4	11.9	II	2	K=H	1	—	2.2	23.8	10.5	27.7	
? 4.0	21.7	III	3	K=H	2	F. pun.	2.0	43.4	10.7	8.1	
? 3.1	19.8	II	3	K=H	1	F. pun.	1.6	39.6	11.1	11.9	

Plate 1453

22.8	16.2	III	2	K=H	1	—	11.4	32.4	51.4	19.2	−0.6
21.4	8.4	III	2	K=H	1	—	10.7	16.8	52.1	34.8	+1.8
21.8	8.6	III	3	K=H	1	F	10.9	17.2	51.9	34.4	+1.9
21.4	16.5	III	1	N	1	—	10.7	33.0	52.1	18.6	−0.2
? 20.1	9.4	II?	2	K=H	2	F. pun.	10.0	18.8	52.8	32.8	+0.9
20.2	21.2	I	6	K=.2H?	2	F?	10.1	42.4	52.7	9.2	−0.9
? 19.6	13.0	II?	3	K=H	3	F. pun.	9.8	26.0	53.0	25.6	+0.5
19.1	22.1	III	1	N	1	—	9.6	44.2	53.2	7.4	−0.2
17.6	11.4	III	2	K=H	2	F?	8.8	22.8	54.0	28.8	+0.7
16.2	11.3	III	2	K=H	1	—	8.1	22.6	54.7	29.0	+0.7
16.6	20.9	I	6	K=H	2	F.	8.3	41.8	54.5	9.8	−1.0
? 15.4	5.7	II	3	K=H	2.	F. pun.	7.7	11.4	55.1	40.2	+1.9
15.0	8.8	III	3	K=H	1.	F.	7.5	17.6	55.3	34.0	+1.2
15.2	11.0	I	6	N	2.	—	7.6	22.0	55.2	29.6	+0.8
15.4	12.2	I	4	N	1	—	7.7	24.4	55.1	27.2	+0.5

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No.	R.A.	Dec.	Mag.	H	N	14′
2859	14 17.2	+8 45	7.3	51.4	12.8	
2914	14 38.5	+8 47	7.5	51.7	12.8	
2868	14 23.1	+8 60	7.7	51.5	12.8	
2890	14 19.7	+9 2	7.9	51.5	12.8	?
2857	14 16.9	+8 54	7.0	51.3	12.8	?
2882	14 16.3	+9 6	5.0	51.3	128	
2878	14 13.2	+9 16	8.0	51.2	12.8	
2710	14 28.9	+10 24	7.3	51.5	12.8	
2707	14 27.9	+10 33	7.9	51.7	18.8	
2654	14 7.8	+10 48	5.3	51.2	12.8	
2662	14 11.5	+11 11	7.0	51.1	12.8	

0.8	2649	14 18.8	+21 16	7.7	51.2	32.7	51.3
1.0	2676	14 35.8	+21 56	7.8	52.6	32.6	51.6
0.9	2674	14 35.3	+21 45	6.5	52.5	32.7	51.6
0.2	2697	14 18.1	+22 1	7.1	51.1	32.7	51.3
0.9	2731	14 33.8	+22 36	6.0	52.6	32.6	51.7
1.0 0.7	2678	14 8.0	+22 34	6.5	50.4	32.7	51.4
0.5	2715	14 25.9	+22 54	5.3	52.9	32.7	51.4
0.2	2662	14 5.9	+23 4	7.5	50.1	32.7	51.3
0.7	2710	14 29.6	+23 53	6.3	52.4	32.7	51.7
0.7	2744	14 29.7	+24 38	7.8	52.3	32.7	51.6
1.0	2707	14 8.4	+24 22	6.5	50.2	32.7	51.2
1.9	2779	14 42.0	+24 58.	6.1	53.4	32.7	51.5
1.2	2816	14 35.3	+25 9	7.5	52.9	32.7	51.7
0.8	2804	14 30.4	+25 6	7.5	52.4	32.7	51.6
0.5	2796	14 27.8	+25.1	8.1	52.2	32.7	51.7

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Plate 1453.

	V	H	Type	No. Lines	K	Focus	Other Lines	V.	H.	V.	H.	Correc.
	15.1	14.9	III	2	K=H	1	—	7.6	29.8	2 55.2	21.8	+ 0.0
	14.3	11.5	II?	4	K=H	1	—	7.2	23.0	2 55.6	28.6	+ 0.7
	14.5	21.4	I	5	?	1	—	7.2	42.8	2 55.6	8.8	− 1.2
?	13.6	17.1	II?	3	K=H	3	F, perm.	6.8	34.2	2 56.0	17.4	− 0.4
?	13.8	22.9	II	3	K=2.5H?	4	F, perm,	6.9	45.8	2 55.9	5.8	− 1.7
	13.1	17.4	II	2	K=H	1	—	6.6	34.8	2 56.2	16.8	− 0.4
	12.1	8.8	II?	2	K=H	1	—	6.0	17.6	2 56.8	34.0	+ 1.3
	12.6	14.7	III	3	K=H	1	F.	6.3	29.4	2 56.5	22.2	− 0.0
	12.1	18.2	III	3	K=H	1	F.	6.0	36.4	2 56.8	15.2	∓ 0.6
	11.2	8.1	III	3	K=H	2	F. Bright perm.	5.6	16.2	27.2 56.2	35.4	+ 1.6
	11.0	13.1	I	8	K=2H	3	F.	5.5	26.2	2 57.3	25.4	+ 0.4
	11.6	15.8	III	2	K=H	1	—	5.8	31.6	2 57.0	20.0	− 0.1
	11.1	18.2	I	5	K=1.5H	2	—	5.6	36.4	2 57.2	15.2	− 0.8
?	10.2	7.4	II?	2	K=1.5H?	5	F. perm.	5.1	14.8	2 57.7	36.8	+ 1.8
	10.6	9.9	III	1	N	1	—	5.3	19.8	2 57.5	31.8	+ 1.2
	10.8	20.1	II	1	N	1	—	5.4	40.2	2 57.4	11.4	− 1.2
	10.6	21.0	III	1	N	1	—	5.3	42.0	2 57.5	9.6	− 1.4
?	9.3	11.3	II?	3	K=H	2	F, perm.	4.6	22.6	2 58.2	29.0	+ 0.9
	9.0	15.5	II	2	K=H	1	—	4.5	31.0	2 58.3	20.6	− 0.8
?	9.4	16.6	III	2	K=H	1	perm.	4.7	33.2	2 58.1	18.4	− 0.4
	8.6	20.4	I	5	N	2	—	4.3	40.8	2 58.5	10.8	∓ 1.4
	7.5	12.0	II	2	K=H	1	—	3.8	24.0	2 59.0	27.6	+ 0.8
	7.3	12.2	III	1	N	1	—	3.6	24.4	2 59.2	27.2	+ 0.7
	7.8	14.7	I	7	N	3	—	3.9	29.4	2 58.9	22.2	+ 0.0
?	7.3	19.1	II	2	K=H	1	perm.	3.6	38.2	2 59.2	13.4	− 1.1
	6.1	8.5	I	3	N	1	—	3.0	17.0	2 59.8	34.6	+ 1.8
	6.1	9.1	II?	1	N	1	—	3.0	18.2	2 59.8	33.4	+ 1.5
	6.6	21.7	I	4	½K=H	1	—	3.3	43.4	2 59.5	8.2	− 1.8

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No.	R.A.	Dec.	mag.	H.	V.	H'
2782	14 21.8	+25 11	8.0	51.6	32.8	51.6
2802	14 29.4	+25 32	8.0	52.4	32.7	51.7
2744	14 7.1	+25 28	8.0	49.9	32.7	51.2
2769	14 16.6	+25 60	6.1	50.8	32.8	51.2
2737	14 3.8	+25 47	4.8	49.6	32.7	51.3
2559	14 16.0	+26 11	8.0	50.8	32.8	51.2
2592	14 35.6	+26 35	7.9	53.6	32.6	51.9
2575	14 22.3	+26 30	7.0	51.7	32.8	51.7
2554	14 14.2	+26 44	7.0	50.6	32.7	51.2
2413	14 37.1	+27 9	5.8	53.3	32.8	51.7
2388	14 25.9	+27 20	6.2	52.1	32.8	51.7
2569	14 19.4	+26 55	7.5	51.0	32.7	51.1
2367	14 14.1	+27 14	7.6	50.5	32.8	51.3
2417	14 38.7	+27 41	2.3	53.5	32.8	51.7
2404	14 32.9	+27 26	8.2	52.7	32.7	51.5
2354	14 9.9	+27 18	8.6	50.1	32.7	51.3
2349	14 7.7	+27 23	8.2	49.7	32.7	51.1
2348	14 30.1	+28 8	7.0	52.7	32.6	51.8
2325	14 20.2	+28 18	8.0	51.2	32.8	51.3
2318	14 17.6	+28 5	6.5	50.8	32.8	51.3
2309	14 9.0	+28 25	7.0	49.8	32.7	51.2
2555	14 28.4	+29 1	8.0	52.4	32.8	51.6
2553	14 27.9	+29 7	8.1	52.3	32.7	51.6
2332	14 22.2	+28 56	7.0	51.6	32.8	51.6
2524	14 12.1	+29 6	7.3	50.3	32.7	51.4
2570	14 36.6	29 43	8.1	53.6	32.7	51.9
~~2568~~	~~14 35.1~~	~~+29 42~~	~~7.8~~	—	—	—
2568	14 35.1	+29 42	7.8	53.3	32.7	51.8
2505	14 6.0	+29 25	7.2	49.4	32.7	51.2

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Plate 1453.

V	H	Type	No. Lines	K	Focus	Other Lines		V.	H.	V.	H.	Corrc.
7.0	24.1	III	2	K=H	1	—		3.5	48.2	2 59.3	3.4	- 2.7
5.8	14.9	III	2	K=H	1	—		2.9	29.8	2 59.9	21 30.8	+ 0.0
5.6	17.3	III	3	K=H	1	F		2.8	34.6	3 60.0	17.0	- 0.7
?	5.9	21.0	II	6	?	2	F, perm.	3.0	42.0	2 59.8	9.6	- 1.5
?	4.9	12.0	II?	3	K=H	5	F, perm.	2.4	24.0	3 60.4	27.6	+ 0.9
	3.3	9.6	II	2	K=H	1	—	1.6	19.2	3 61.2	32.4	+ 1.5
?	3.7	13.3	III	3	K=H	4	F. Bright perm.	1.8	26.6	3 61.0	25.0	+ 0.5
	3.5	18.2	II	8	K=2H	2	F	1.8	36.4	3 61.0	15.2	+ 1.0
	3.0	14.3	II	3	N	1	—	1.5	28.6	3 61.3	23.0	+ 0.1
	6.9	5.3	II	5	?	3	F?	3.4	10.6	2 59.4	41.0	+ 2.9

Plate 1447.

19.1	8.3	II	7	N	2	F.	9.6	16.6	13.1	75.1
19.2	15.0	II	5	K=H	1	F.	9.6	30.0	13.1	61.7
19.3	21.4	II	6	N	2	F.	9.6	42.8	13.1	48.9
17.9	14.9	III	3	K=H	2	F.	9.0	29.8	13.7	61.9
16.2	20.0	III	1	N	1	—	8.1	40.0	14.6	51.7
15.4	20.9	II	8	N	3	F.	7.7	41.8	15.0	49.9
14.9	6.4	II	2	K=H	1	—	7.4	12.8	15.3	78.9
14.2	18.0	III	2	K=H	1	—	7.1	36.0	15.6	55.7
14.6	19.1	III	2	K=H	1	—	7.3	38.2	15.4	53.5
14.2	20.2	III	2	K=H	1	—	7.1	40.4	15.6	51.3
14.3	21.5	III?	1	N	1	—	7.2	43.0	15.5	48.7
13.5	6.5	III	3	K=H	2	F.	6.8	13.4	15.9	78.3
13.6	21.6	II	5	K=H	1	F.	6.8	43.2	15.9	48.5
13.9	22.5	II	5	N	1	F.	7.0	45.0	15.7	46.7
12.0	9.4	II	2	K=H	1	—	6.0	18.8	16.7	72.9
12.3	17.8	II	3	K=H	1	F.	6.2	34.6	16.5	57.4

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No.	Ra	Dec.	Mag.	H.	V.	H'.
2493	14 0.4	+ 29 7	7.0	48.6	32.6	51.3
2538	14 21.7	+ 29 55	7.2	51.7	32.8	51.7
2513	14 15.9	+ 30 3	6.5	50.5	32.9	51.1
2508	14 7.4	+ 29 48	7.0	49.4	32.8	51.0
2536	14 28.4	+ 30 23	5.0	52.4	32.8	51.6
2642	14 34.1	+ 31 4	7.5	53.3	32.7	51.8
2628	14 25.6	+ 31 0	4.0	52.1	32.8	51.6
2605	14 13.8	+ 31 6	6.5	50.2	32.9	51.2
2621	14 23.2	+ 31 38	7.5	51.8	32.8	51.7
2581	14 43.7	+ 29 13	6.2	54.3	32.6	51.4
2928	15 15.5	+ 13 6	6.4	32.1	22.7	
2889	15 1.9	+ 13 3	7.0	31.9	22.6	
2866	14 48.6	+ 13 1	6.5	91.4	22.6	
2901	15 2.1	+ 13 48	6.2	31.9	22.8	
2812	14 57.4	+ 14 36	7.0	91.4	22.7	
2796	14 49.4	+ 15 2	6.2	91.2	22.7	
2862	15 19.6	+ 15 13	8.0	32.4	22.6	
2808	14 55.5	+ 15 40	8.5	91.5	22.8	
2803	14 53.2	+ 15 25	7.2	91.7	22.7	
2798	14 51.0	+ 15 41	7.7	91.4	22.8	
2792	14 48.2	+ 15 34	7.2	91.2	22.8	
2858	15 19.1	+ 15 56	4.8	32.5	22.7	
2790	14 48.1	+ 15 55	7.5	91.3	22.7	
2784	14 46.1	+ 15 43	7.2	91.1	22.7	
2765	15 12.9	+ 16 30	8.3	31.7	22.5	
2728	14 56.8	+ 16 0	8.0	91.4	22.2	

H = 91.7

r = 22.7 max

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Plate 1447.

	r	H	Type	No. Lines	K	Focus	Other lines.	V.	H.	V.	H.	Remarks
?	12.9	22.7	II?	3	K=H	2	F, pecu.	6.4	44.4	16.3	47.3	
?	11.6	20.4	III	2	K=H	2	F? pecu.	5.8	40.8	16.9	50.9	
	10.8	11.2	III	1	N	1	—	5.4	22.4	17.3	69.3	
	9.6	19.5	III	2	K=H	1	—	4.8	39.0	17.9	52.7	
	8.6	7.8	II	1	N	1	—	4.3	15.6	18.4	76.1	
	8.5	17.7	III	2	K=H	1	—	4.8	35.4	17.9	56.3	
	7.7	15.5	I	8	K=.2H	3	F?	3.8	31.0	18.9	60.7	
	6.6	8.2	III	2	K=H	1	—	3.3	16.4	19.4	75.3	
	6.0	13.0	III	3	K=H	2	F	3.0	26.0	19.7	65.7	
?	6.6	13.3	III	3	K=H	1	F, pecu.	3.3	26.6	19.4	65.1	
	6.5	20.0	III	3	K=H	1	F	3.8	40.0	18.9	51.7	
	6.1	22.0	III	3	K=H	2	F	3.0	44.0	19.7	47.7	
?	6.1	23.0	III	3	K=2.0H?	4	F, pecu. Brightish	3.0	46.0	19.7	45.7	
	5.5	6.8	II	3	K=H	1	F	2.8	13.6	19.9	78.1	
	5.2	23.9	I	5	?	1	F?	2.6	47.8	20.1	43.9	
	4.4	13.1	I?	5	K=H	1	F	2.2	26.2	20.5	65.5	
?	3.4	10.3	III	2	K=H	2	F? pecu.	1.7	20.6	21.0	71.1	
	3.7	22.6	I	5	N	1	—	1.8	45.2	20.9	46.5	

Plate 1440.

22.3	11.1	III?	2	K=H	2	—	11.2	22.2	16.5	33.8	+ 0.4
22.1	13.3	I	6	K=H	3	—	11.0	26.6	16.7	29.4	+ 0.2
22.2	15.2	I	8	N	3	F	11.1	30.4	16.6	25.6	− 0.0
21.7	11.7	I	4	K=H	1	—	10.8	23.4	16.9	32.6	+ 0.4
21.8	15.4	I	5	K=.8H	1	—	10.9	30.8	16.8	25.2	− 0.0
21.5	16.7	III	3	K=H	1	F	10.8	33.4	16.9	22.6	− 0.2
20.1	14.5	I	7	K=H	2	F	10.0	29.0	17.7	27.0	+ 0.0
19.9	9.3	I	7	N	3	F	10.0	18.6	17.7	37.4	+ 0.6

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No.	R.A.	Dec.	Mag.	H.	V.	H'
2705	14 46.6	+ 16 17	6.2	91.0	22.7	
2715	14 50.4	+ 16 60	6.1	91.2	22.8	
2843	15 9.8	+ 17 20	8.0	32.2	22.7	
2806	14 52.3	+ 17 56	8.0	91.3	22.7	
3010	15 17.1	+ 18 22	7.5	32.6	22.7	
2972	14 56.6	+ 18 33	7.2	92.0	22.8	
2924	15 0.7	+ 19 1	6.1	31.7	22.8	
2961	14 16.2	+ 19 27	7.1	32.6	22.7	
2935	15 5.5	+ 19 32	5.9	31.5	22.5	
2937	15 6.2	+ 19 38	7.4	32.8	22.9	?
2891	14 51.1	+ 19 34	6.8	91.1	22.8	
2881	14 46.8	+ 19 45	6.3	90.8	22.8	
2870	14 44.7	+ 19 43	5.0	90.7	22.7	
2966	15 19.4	+ 19 60	6.8	33.0	22.8	
3026	14 42.8	+ 20 7	6.9	90.6	22.7	?
3075	15 5.0	+ 20 37	7.2	31.2	22.8	
2755	15 11.9	+ 21 7	6.2	32.5	22.8	
3032	14 45.5	+ 20 54	7.3	90.7	22.7	

2816	15 34.4	+ 16 31	6.0	56.6	27.7	
2807	15 29.8	+ 16 36	6.0	56.4	27.6	
2797	15 25.5	+ 16 33	6.2	55.9	27.7	
2814	15 33.1	+ 16 48	6.5	56.5	27.6	
2795	15 25.2	+ 16 44	7.7	56.2	27.6	
2789	15 22.6	+ 16 54	6.5	56.0	27.7	
2880	15 27.2	+ 17 38	6.7	56.2	27.6	
2906	15 38.1	+ 17 44	6.2	56.7	27.7	

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r	H	Type	No. Lines	K	Focus	Other lines.	V.	H.	V.	H.	Corrn
?	19.1	13.7	III	2	K=H	2	F? perh.	9.6	27.4	18.1	28.6	+ 0.1
	19.1	15.8	III	1	N	1	—	9.6	31.6	18.1	24.3	− 0.1
?	18.2	7.4	III	3	K=H	3	F. Bright perh.	9.1	14.8	18.6	41.2	+ 0.8
	18.0	18.1	III	1	N	1	—	9.0	36.2	18.7	19.8	− 0.4
	18.6	19.2	III	2	K=H	1	—	9.3	38.4	18.4	17.6	− 0.5
	17.6	10.7	II	8	K=.2H?	4	F	8.8	21.4	18.9	34.6	+ 0.5
	17.0	11.4	I	4	N	1	—	8.5	22.8	19.2	33.2	+ 0.4
	16.6	19.6	II	2	K=H	1	—	8.3	39.2	19.4	16.8	− 0.5
	15.2	10.8	I	10	K=.2H?	V	F.	7.6	21.6	20.1	34.4	+ 0.5
	15.5	18.1	II	3	K=H	2	F.	7.8	36.2	19.9	19.8	− 0.4
	14.6	8.6	III	1	N	1	—	7.3	17.2	20.4	38.8	+ 0.8
?	13.7	15.3	II	2	K=H	1	perh.	6.8	30.6	20.9	25.4	− 0.0
?	13.3	21.5	III	2	K=H	3	perh.	6.6	43.0	21.1	13.0	− 0.9
	12.6	6.3	III	3	K=H	3	F. Bright perh.	6.3	12.6	21.4	43.4	+ 1.4
	12.7	9.3	I	4	N	1	—	6.4	18.6	20.9	37.4	+ 0.8
	12.6	15.2	II?	2	K=H	1	—	6.3	30.4	21.4	25.6	− 0.0
	11.6	9.3	III	1	N	1	—	5.8	18.6	21.9	37.4	+ 0.8
	11.7	12.5	III	1	N	1	—	5.8	25.0	21.9	31.0	+ 0.4
	9.8	6.4	III	2	K=H	1	—	4.9	12.8	22.8	43.2	+ 1.6
	9.7	7.6	III	2	K=H	1	—	4.8	15.2	22.9	40.8	+ 1.2
	9.9	9.7	III	2	K=H	1	—	5.0	19.4	22.7	36.6	+ 0.7
	9.4	15.1	III	2	K=H	1	—	4.7	30.2	23.0	25.8	− 0.0
	9.8	21.9	II	1	N	1	—	4.9	43.8	22.8	12.2	− 0.0
	8.7	9.9	II	2	K=H	1	—	4.4	19.8	23.3	36.2	+ 0.8
	8.4	23.6	I	8	N	3	F.	4.2	47.2	23.5	8.8	− 1.6
	7.1	16.0	I	6	K=.2H	2	—	3.6	32.0	24.1	24.0	− 0.2
	7.0	16.1	I	V	K=.5H	1	—	3.5	32.2	24.2	23.8	− 0.2
3,30	5.1	9.3	I	4	K=H	1	—	2.6	18.6	25.1	37.4	+ 1.1

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No.	R.A.	Dec.	Mag.	H.	V.	H'.
3044	15 29.0	+ 18 8	6.0	56.4	27.7	56.3
3033	15 24.2	+ 18 7	8.1	55.8	27.7	55.9
3074	15 42.2	+ 18 37	4.0	57.0	27.7	56.2
3019	15 19.6	+ 18 41	7.5	55.8	27.7	56.2
3010	15 17.1	+ 18 22	7.5	55.5	27.7	56.0
3059	15 35.4	+ 18 57	6.0	56.8	27.8	56.3
3000	15 33.9	+ 19 9	7.5	56.7	27.7	56.2
2961	15 16.2	+ 19 27	7.1	55.8	27.7	56.3
3138	15 35.1	+ 20 8	4.5	56.7	27.7	56.2
2966	15 19.4	+ 19 60	6.8	55.6	27.8	56.0
3145	15 ~~39.6~~ 40.0	+ 20 22	7.8	57.0	27.7	56.2
3117	15 25.3	+ 20 53	7.3	55.9	27.7	55.9
2755	15 11.9	+ 21 7	6.2	54.9	27.7	55.8
2829	15 44.9	+ 21 26	5.0	57.5	27.7	56.4
2812	15 38.6	+ 21 20	7.0	57.2	27.7	56.4
2781	15 25.6	+ 21 27	8.2	56.0	27.7	56.0
2813	15 38.6	+ 21 54	7.0	57.2	27.7	56.5
~~2877~~	~~15 36.9~~	~~+ 22 10~~	~~7.8~~			
2794	15 31.5	+ 21 55	7.7	56.5	27.7	56.1
2889	15 44.8	+ 22 45	8.0	57.6	27.7	56.0
~~2883~~	~~15 42.2~~	~~+ 22 52~~	~~6.5~~			
2883	15 42.2	+ 22 52	6.5	57.4	27.7	56.2
2878	15 ~~36.9~~ 37.6	+ 22 ~~10~~ 48	~~7.8~~ 7.7	57.0	27.8	56.3
2823	15 25.7	+ 23 4	7.3	55.9	27.7	55.9
2811	15 11.1	+ 22 50	7.0	54.9	27.7	55.9
2852	15 37.3	+ 23 25	6.5	57.1	27.7	56.3
2789	15 7.1	+ 23 32	6.4	54.3	27.7	55.9
2873	15 23.6	+ 24 20	6.9	53.6	27.9	55.8
2874	15 23.9	+ 24 15	7.3	56.1	27.7	56.3
2963	15 38.8	+ 25 10	7.5	57.4	27.8	56.3

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Plate 1440.

			Type	Lines	K	Focus	Other Lines.	V.	H.	V.	H.
12	20	5.7 9.7	I	5	K=1.5H	2	—	2.38	19.4	24.9	36.6 + 1.0
		5.6 12.3	II	2	K=H	1	—	2.8	24.6	24.9	31.4 + 0.5
		5.8 19.8	I	6	?	2	F.	2.9	39.6	24.8	16.4 - 0.9
		4.6 13.9	I	2	K=H	1	—	2.3	27.8	25.4	28.2 + 0.2
		4.5 17.1	III	1	N	1	F	2.2	34.2	25.5	21.8 - 0.4
		4.0 18.7	III	1	N	1	—	2.0	37.4	25.7	18.6 - 0.7
		4.0 19.5	I	4	K=H	1	—	2.0	39.0	25.7	17.0 - 0.9
		4.6 20.0	III	3	K=H	1	F.	2.3	40.0	25.4	16.0 - 1.0
		3.3 19.4	III	1	N	1	—	1.6	38.8	26.1	17.2 - 0.9
		3.1 22.4	I	6	N	2	F.	1.6	44.8	26.1	11.2 - 1.5
?		2.5 7.2	III	3	K=2.5H	4	F. Bright, diffuse	1.2	14.4	26.5	41.6 + 1.7
?		2.1 10.3	II?	2	?	5	F, Diffuse	1.0	20.6	26.7	35.4 + 1.0

Plate 1471.

		22.0 21.8	I?	4	K=H	1	—	11.0	43.6	1.8	28.7
		21.4 15.6	III	2	K=H	1	—	10.7	31.2	2.1	41.1
		21.5 16.0	III	2	K=H	1	—	10.8	32.0	2.0	40.3
?		20.2 14.7	III	3	K=H	2	F. Diffuse	10.1	29.4	2.7	42.9
		19.6 14.9	I	3	N	1	—	9.8	29.8	3.0	42.5
		19.6 17.7	II	2	K=H	2	—	9.8	35.4	3.0	36.9
		18.0 12.6	III	1	N	1	—	9.0	25.2	3.8	47.1
		17.8 11.2	I	5	N	1	—	8.9	22.4	3.8	49.9
		17.6 15.6	II	2	K=H	1	—	8.8	31.2	4.0	41.1
?		17.8 17.4	II?	1	N	1	Diffuse	8.9	34.8	3.9	37.5
		16.0 15.7	III	2	K=H	1	—	8.0	31.4	4.8	40.9
		16.4 18.2	II	3	K=H	1	F.	8.2	36.4	4.6	35.9
		16.2 19.3	III	1	N	1	—	8.1	38.6	4.7	33.7
?		15.9 19.4	III	3	K=H	2	F. Diffuse	8.0	38.8	4.8	33.5

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No.	R.A.	Dec.	Mag.	H.	V.	H'	
2914	15 37.9	+24 55	7.3	57.3	27.8	56.3	
2901	15 32.1	+24 60	7.4	56.7	27.8	56.2	
2850	15 15.3	+24 52	7.0	54.9	27.8	55.8	
2932	15 28.6	+25 29	8.3	56.4	27.8	56.2	
2916	15 21.6	+25 36.	6.0	55.8	27.8	56.2	
2910	15 17.7	+25 34	8.0	55.1	27.8	55.8	
~~2908~~	~~15 17.6~~	~~+25 49~~	~~8.0~~	~~55.0~~			
2904	15 16.0	+25 46	7.7	55.0	27.8	55.9	
2902	15 14.8	+25 30	6.0	54.8	27.8	55.8	
2685	15 16.2	+26 9	7.3	55.0	27.8	55.9	
2670	15 9.4	+26 11	6.8	54.2	27.8	55.8	
2734	15 43.5	+26 32	4.5	57.9	27.7	56.2	
2722	15 36.7	+26 46	4.0	57.7	27.8	56.7	
3101	15 28.5	+ 1 43	7.1	72.1	12.7		
3001	15 40.7	+ 2 2	8.0	71.9	12.7		
3131	15 40.1	+ 1 60	7.0	72.1	12.8		
3007	15 43.0	+2 38	5.8	72.4	12.7		
3004	15 42.6	+2 57	7.5	72.4	12.7		
2989	15 36.8	+2 59	6.1	72.2	12.8		
3096	15 47.1	+3 43	7.8	72.3	12.7		
3104	15 50.0	+3 49	7.3	72.4	12.7		
3061	15 40.6	+4 0	8.1	71.8	12.8		
3080	15 37.3	+3 50	7.0	72.1	12.7		
3062	15 40.6	+4 45	8.1	72.0	12.8		
3051	15 35.7	+4 34	8.2	72.1	12.8		
3046	15 33.4	+4 38	8.4	72.0	12.7		
3096	15 53.7	+4 50	6.1	72.5	12.8		

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Plate 1471.

	V	H	Type	Lines	K	Focus	Lines	Other V.	Other H.	V.	H.
	15.1	10.6	III	2	K=H	1	—			7.6	21.2	5.2	51.1
	15.8	14.4	I	12	K=.2H	V	F.			7.9	28.8	4.9	43.5
	15.1	17.0	III	2	K=H	1	—			7.6	34.0	5.2	38.3
?	15.1	17.6	III?	2	K=H	1	diff.			7.6	35.2	5.2	37.1
	15.0	22.3	I	V	?	1	F?			7.5	44.6	5.3	27.7
	14.7	7.9	III	3	K=H	2	F.			7.4	15.8	5.4	56.5
	14.2	12.4	III	2	K=H	1	—			7.1	24.8	5.7	47.5
	14.1	12.6	III	3	K=H	1	F.			7.0	25.2	5.8	47.1
	14.2	18.2	II	1	N	1	—			7.1	36.4	5.7	35.9
	14.4	18.4	II	2	K=H	1	—			7.2	36.8	5.6	35.5
	14.4	20.6	III	1	N	1	—			7.2	41.2	5.6	31.1
	13.8	6.6	II	2	K=H	1	—			6.9	13.2	5.9	59.1
	13.8	16.9	I	9	K=.2H?	3	F.			6.9	33.8	5.9	38.5
	13.5	19.1	II	1	N	1	—			6.8	38.2	6.0	34.1
	12.2	7.5	III	1	N	1	—			6.1	15.0	6.7	57.3
	12.6	7.6	III	1	N	1	—			6.3	15.2	6.5	57.1
	12.9	11.4	III	2	K=H	1	—			6.4	22.8	6.4	49.5
	12.9	14.6	I	7	K=.2H	2	F.			6.4	29.2	6.4	43.1
	12.5	16.5	III	2	K=H	1	—			6.2	33.0	6.6	39.3
?	12.0	17.4	III	3	K=2.0H	V	F.	Bright	diff.	6.0	34.8	6.8	37.5
	12.2	21.5	I	V	K=H	1	—			6.1	43.0	6.7	29.3
	12.2	21.7	III	1	N	1	—			6.1	43.4	6.7	28.9
	11.1	18.1	III	2	K=H	1	—			5.6	36.2	7.2	36.1
	10.0	7.6	III	2	K=H	1	—			5.0	15.2	7.8	57.1
?	10.1	16.2	II?	3	K=1.5H	3	F.	diff.		5.1	32.4	7.7	39.9
	10.9	18.1	III	2	K=H	1	—			5.4	36.2	7.4	36.1
	10.6	19.7	III	2	K=H	1	—			5.3	38.4	7.5	39.2
	9.5	17.0	III	2	K=H	1	—			4.8	34.0	8.0	38.3

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No.	R.A.	Dec.	Mag.	Ht.	V.	
3117	15 51.3	+ 5 10	7.3	72.5	12.8	
3069	15 43.6	+ 4 55	3.5	72.4	12.8	
3071	15 38.1	+ 5 9	8.5	72.1	12.8	
3068	15 36.9	+ 5 10	8.5	72.1	12.8	
3037	15 27.4	+ 5 13	7.5	72.0	12.7	
3131	15 56.6	+ 5 23	6.5	72.4	12.8	
3111	15 47.5	+ 5 39	8.3	72.3	12.7	
~~3108~~	~~15 47.3~~	~~+ 5 44~~	~~7.5~~			
3108	15 47.3	+ 5 44	7.3	72.5	12.7	
3061	15 35.6	+ 5 37	8.4	72.0	12.7	
3059	15 35.3	+ 5 30	8.4	72.1	12.7	
3048	15 30.8	+ 5 34	8.3	72.0	12.8	
3137	15 59.3	+ 5 48	8.0	72.5	12.7	
3072	15 38.2	+ 5 54	6.7	72.0	12.8	
3054	15 33.9	+ 5 59	8.6	72.1	12.8	?
3150	15 57.4	+ 6 36	8.7	72.4	12.7	?
3149	15 57.2	+ 6 23	7.9	72.4	12.7	
3103 (27)	15 49.6	+ 6 20	8.0	72.4	12.7	
3103	15 43.1	+ 6 24	8.0	72.3	12.8	
3096	15 39.1	+ 6 34	8.2	72.1	12.8	
3088	15 37.1	+ 6 53	2.2	71.9	12.9	
~~3069~~	~~15 ?~~					
3069	15 28.9	+ 6 39	7.5	72.3	12.7	
3010	15 35.8	+ 7 21	7.5	72.0	13.0	
3082	15 57.2	+ 7 47	8.3	72.4	12.8	
3023	15 39.4	+ 7 49	5.0	71.8	12.9	
3011	15 35.8	+ 7 23	8.7	72.0	12.8	
3000	15 32.5	+ 7 28	8.5	71.9	12.8	
3019	15 38.1	+ 7 57	7.0	72.0	12.7	?

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	Y	X	Type	No. Lines	K	Focus	Other Lines		V.	H.	V.	H.
?	9.5	17.5	III ?	1	N	1		cmm.	4.8	34.0 5	8.0	37.3
	9.0	18.4	III	2	K=H	1		—	4.5	36.8	8.3	35.5
	9.8	20.5	III	2	K=H	1		—	4.9	41.0	7.9	31.3
	8.6	6.9	I	6	N	2	F		4.3	13.8	8.5	58.5
	8.2	7.8	III	2	K=H	1		—	4.1	15.6	8.7	56.7
	9.0	11.7	III	2	K=H	1		—	4.5	23.4	8.3	48.9
	8.8	16.7	III	2	K=H	1		—	4.4	33.4	8.4	38.9
	8.6	18.0	III ?	1	N	1		—	4.3	36.0	8.5	36.3
	7.7	12.4	I	8	K=.2H	2	F		3.8	24.8	9.0	47.5
	7.5	16.8	III	1	N	1		—	3.8	33.6	9.0	38.7
	7.0	17.2	III	1	N	1		—	3.5	34.4	9.3	37.9
	7.5	19.5	III	1	N	1		—	3.8	39.0	9.0	33.3
?	7.5	24.0	II ?	3.	K=H	1	F, cmm		3.8	48.0	9.0	24.3
	6.4	12.0	III	3	K=H	1	F		3.2	24.0	9.6	48.3
	6.3	12.3	II ?	1	N	1		—	3.2	24.6	9.6	47.7
	6.1	18.9	III	2	K=H	1		—	3.0	37.8	9.8	34.5
	6.4	19.6	II	2	K=H	1		—	3.2	39.2	9.6	33.1
	5.0	5.9	I	6	K=H ?	2	F		2.5	11.8	10.3	60.5
	5.4	7.3	I	2	N	1		—	2.7	14.6	10.1	57.7
	5.1	16.1	I	6	K=.5H	1		—	2.6	3 32.2	10.8 2	40.1
	5.4	18.3	II	2	K=H	1		—	2.7	36.6	10.1	35.7
	4.9	6.8	I	6	K=H	1		—	2.4	13.6	10.4	58.7
	4.6	7.6	I	3	N	1		—	2.3	15.2	10.5	57.1
	4.2	11.6	III	1	N	1		—	2.1	23.2	10.7	49.1
	4.4	11.9	III	2	K=H	1		—	2.2	23.8	10.6	48.5
	4.6	13.9	III	1	N	1		—	2.3	27.8	10.5	44.5
	4.6	15.0	III	2	K=H	1		—	2.3	30.0	10.5	42.3
	4.1	20.4	II	2	K=H	1		—	2.0	40.8	10.8	31.5

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No	R. A.	Dec.	Mag	H.	V.	
3073	15 36.9	+ 8	4	8.5	71.9	12.9
3066	15 35.2	+ 8	17	7.5	72.0	12.8
2996	15 31.0	+ 7	30	8.7	72.0	12.4
3134	15 58.6	+ 8	30	6.8	72.4	12.8
3130	15 56.8	+ 8	38	8.1	72.4	12.7
3108	15 49.1	+ 8	21	8.0	72.5	12.9
3079	15 38.5	+ 8	24	8.9	71.9	12.8
3071	15 36.1	+ 8	30	9.0	72.1	12.8
3116	15 47.7	+ 9	1	7.0	72.5	12.8
3097	15 38.5	+ 9	7	8.2	72.1	12.9
3095	15 37.5	+ 9	19	8.4	71.9	12.8
3050	15 32.9	+ 8	60	8.5	71.9	12.8
3055	15 23.9	+ 9	5	6.7	71.9	12.9
3120	15 48.4	+ 9	40	7.9	72.4	12.9
3117	15 47.8	+ 9	42	8.3	72.4	12.9
~~3116~~	~~15 47.7~~	~~+ 9~~	~~+~~	~~7.0~~		
3083	15 34.1	+ 9	46	8.1	71.9	12.8
~~3081~~	~~15 32.7~~	~~+ 9~~	~~36~~	~~8.3~~		
3081	15 32.7	+ 9	36	8.3	71.9	12.8
2958	16 0.7	+ 10	17	6.2	12.5	12.8
2952	15 57.9	+ 10	3	8.0	72.5	12.7
2904	15 39.8	+ 10	15	7.4	72.0	12.8
3089	15 35.7	+ 9	59	8.8	72.3	12.7
2893	15 35.3	+ 10	7	8.1	71.9	12.8
2955	15 58.9	+ 10	20	7.5	72.5	12.7
2942	15 57.1	+ 10	24	8.7		
2950	15 57.2	+ 10	24	8.1	72.4	12.7
2927	15 49.3	+ 10	44	7.8	72.5	12.8
2925	15 48.6	+ 10	32	8.6	72.4	12.7
2914	15 44.5	+ 10	25	8.4	72.3	12.7
2909	15 42.3	+ 10	37	8.5	72.3	12.9
2886	15 31.0	+ 10	44	7.3	71.8	12.7

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r	H	Type	No. Lines	K	Focus	Other Lines	V.	H.	V.	H.	Corrd.
4.7	21.2	III	3	K=H	2	F.	3.4	42.4	42.4	29.9	
3.6	22.0	II	10	K=.5H	4	F.	1.8	44.0	44.0	28.3	

Plate 1418

	21.2	9.1	III	1	N	1	—	10.6	18.2	32.1	52.9	+ 2.9
	21.0	14.5	III	1	N	1	—	10.5	29.0	32.2	42.1	+ 0.2
	21.5	16.4	III	2	K=H	1	—	10.8	32.8	31.9	38.3	- 0.7
	21.0	16.6	III	1	N	1	—	10.5	33.2	32.2	37.9	- 0.9
	21.2	18.4	II	V	K=H	1	F.	10.6	36.8	32.1	34.3	- 1.5
	21.6	20.6	II	8	N	V	F.	10.8	41.2	31.9	29.9	- 1.6
	21.6	21.9	II	4	N	1	—	10.8	43.8	31.9	27.3	- 3.0
?	19.5	16.1	III	3	K=H	2	F. Bright pairs	9.8	32.2	32.9	38.9	- 0.6
	18.6	14.6	III	1	N	1	—	9.3	29.2	33.4	41.9	+ 0.2
?	17.9	9.0	III?	3	K=H	3	F, pairs	9.0	18.0	33.7	53.1	+ 3.0
	16.0	7.8	II	6	N	2	F.	8.0	15.6	34.7	55.5	+ 3.9
	15.8	11.6	II	V	?	2	F.	7.9	23.2	34.8	47.9	+ 1.5
?	15.2	18.1	III	2	K=H	2	pairs	7.6	36.2	35.1	34.9	- 1.6
	15.5	21.5	II	V	N	2	—	7.8	43.0	34.9	28.1	- 3.6
?	15.6	23.3	III	2	N	2	F, pairs	7.8	46.6	34.9	24.5	- 4.5
?	14.9	16.3	II	2	K=H	1	pairs	7.4	32.6	35.3	38.5	- 0.8
	13.1	6.0	II	2	K=H	1	—	6.6	12.0	36.1	59.1	+ 5.4
?	13.4	13.2	III	3	K=H	3	F. Bright pairs	6.7	26.4	36.0	44.7	+ 0.9
	13.1	19.2	III	2	K=H	1	—	6.6	38.4	36.1	32.7	- 2.4
	12.1	18.3	II?	V	K=H	1	F.	6.0	36.6	36.7	34.5	- 2.0
	12.6	19.3	II	3	N	1	—	6.3	38.6	36.4	32.5	- 2.4
?	11.5	6.0	III	3	K=1.5H?	3	F. Bright pairs	5.8	12.0	36.9	59.1	+ 5.7
?	11.3	8.3	II?	3	K=.5H	2	F, pairs	5.6	16.6	37.1	54.5	+ 4.2
?	11.4	10.1	III	2	N	1	F, pairs	5.7	20.2	37.0	50.9	+ 3.0

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No.	R.a	Dec.	Mag.	H.	V.	H'
2884	15 29.5	+ 10 30	6.2	71.9	12.9	
2821	15 27.9	+ 11 2	3.3	71.9	12.8	
2805	15 55.0	+ 31 59	6.8	73.2	42.6	71.4
2631	15 42.3	+ 32 11	7.1	71.3	42.7	71.1
2771	15 37.5	+ 31 51	7.2	70.3	42.6	71.0
2619	15 36.9	+ 32 11	7.3	70.1	42.7	71.0
2607	15 32.9	+ 32 2	7.6	69.7	42.6	71.0
2750	15 27.1	+ 31 51	4.2	68.3	42.6	70.0
2742	15 24.6	+ 31 48	7.0	68.4	42.6	71.4
2621	15 38.3	+ 32 59	6.2	70.5	42.8	71.1
2631	15 42.1	+ 33 28	8.0	71.3	42.8	71.1
2663	15 55.5	+ 33 45	5.7	73.5	42.8	70.5
2733	15 59.7	+ 34 38	7.8	75.3	42.6	71.4
2709	15 49.4	+ 34 48	7.3	72.6	42.7	71.1
2711	15 33.2	+ 35 9	6.7	69.4	42.7	71.0
2655	15 25.1	+ 34 58	7.2	68.1	42.8	71.7
2645	15 20.6	+ 34 51	6.0	66.6	42.8	71.7
2719	15 37.7	+ 35 16	8.4	70.3	42.7	71.1
2777	16 3.4	+ 35 56	7.5	15.4	42.5	10.0
2652	15 45.7	+ 36 7	5.0	72.1	42.8	71.1
2623	15 30.7	+ 36 12	7.5	69.1	42.8	71.6
2626	15 32.8	+ 36 43	7.5	69.4	42.7	71.4
2622	15 30.3	+ 36 24	8.2	68.9	42.7	71.3
2699	16 3.7	+ 36 51	5.0	15.7	42.6	10.0
2708	15 58.1	+ 37 2	6.3	74.7	42.6	70.5
2695	15 53.6	+ 37 3	5.8	73.8	42.7	70.8

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	V	H	Type	No. Lines	K	Focus	Other Lines		V.	H.	V.	H.	Corrc
	11.7	15.0	II	2	K=H	1	—		5.8	3.00	36.9	41.1	+ 0.0
	11.4	17.8	I	10	N	ν	F.		5.7	35.6	37.0	35.5	- 1.5
?	11.2	21.0	II	3	K=H	2	F. faint		5.6	42.0	37.1	29.1	- 3.7
	10.5	16.8	I	3	N	1	—		5.2	33.6	37.5	37.5	- 1.0
	10.6	17.3	I	ν	N	2	—		5.3	34.6	37.4	36.5	- 1.3
	10.8	21.4	III	3	K=H	1	F.		5.4	42.8	37.3	28.3	- 3.9
	9.0	10.3	III	2	K=H	1	—		4.5	20.6	38.2	50.5	+ 3.0
	9.6	17.4	III	1	N	1	—		4.8	34.8	37.9	36.3	- 1.5
	9.6	23.7	I ?	10	N	ν	F.		4.8	47.4	37.9	23.7	- 5.8 7
	8.9	11.4	I ?	8	K=H	3	F.		4.4	22.8	38.3	48.3	+ 2.2
	7.9	19.1	III	1	N	1	F.		4.0	38.2	38.7	32.9	∓ 3.7
?	7.0	21.9	II	3	K=H	1	F. faint		3.5	43.8	39.2	27.3	∓ 4.6
	6.2	7.8	III	2	K=H	1	—		3.1	15.6	39.6	55.5	+ 5.1
	6.3	9.4	I	6	K=1.2H	2	F.		3.2	18.8	39.5	52.3	+ 3.9
?	6.6	19.3	III	2	K=H	2	F. Bright faint		3.3	38.6	39.4	32.5	- 3.0
	ν.3	10.8	III	1	N	1	—		2.6	21.6	40.1	49.5	+ 3.0
	ν.0	18.9	III	3	K=H	1	F.		2.5	37.8	40.2	33.3	- 3.7
?	4.0	18.2	III	3	K=H	3	F. faint		2.0	36.4	40.7	34.7	- 3.3 3.2
	3.7	21.2	III	2	K=H	1	—		1.8	42.4	40.9	28.7	∓ 4.5
	2.9	20.ν	I	10	K=1.2H	4	F.		1.4	41.0	41.3	30.1	- 4.1
	3.0	20.8	III	2	N	1	F. faint		1.5	41.6	41.2	29.5	- 4.5 5.3

Plate 1375

22.4	9.2	I	ν	K=H	2	—		11.2	18.4	×6.6	69.5	
? 22.0	10.6	III	3	K=1.2H ?	ν	F. Bright faint		11.0	21.2	×6.8	66.7	
22.ν	11.0	II	2	K=H	1	—		11.2	22.0	×6.6	65.9	
22.9	11.3	I	ν	N	2	—		11.4	22.6	×6.4	65.3	
22.0	16.8	II v.	2	K=H	1	—		11.0	33.6	×6.8	54.3	

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No.	R.a.	Dec.	Mag.	H.	V.	H′
2645	15 41.0	+ 36 54	7.6	71.0 ~~427~~	42.7	71.0
2665	15 33.9	+ 37 6	4.3	69.5	42.8	71.0
2653	15 25.9	+ 37 6	6.5	67.9	42.7	71.6
2669	15 36.4	+ 37 31	7.8	70.0	42.7	71.0
2666	15 35.1	+ 37 30	7.0	69.7	42.8	71.0
2651	15 25.0	+ 37 18	6.5	67.8	42.7	71.7
2715	15 53.1	+ 38 14	6.8	73.7	42.7	70.7
2687	15 35.1	+ 38 0	6.6	69.9	42.8	71.4
2636	15 19.0	+ 37 53	4.0	66.4	42.7	72.1
2712	15 50.5	+ 38 22	5.7	73.3	42.8	71.1
2678	15 30.5	+ 38 51	6.5	68.7	42.8	72.4
2875	15 23.1	+ 39 15	7.0	66.9	42.7	71.5
2961	16 7.0	+ 39 25	6.0	22.6	42.5	17.5
2942	15 55.8	+ 39 34	6.7	74.3	42.8	70.4
2889	15 29.9	+ 39 31	5.0	68.5	42.8	71.5
2933	15 51.0	+ 39 57	7.7	72.6	42.4	69.6
2903	15 30.8	+ 40 19	7.8	68.6	42.8	72.3
2907	15 32.6	+ 40 50	5.0	69.0	42.8	73.5
2893	15 24.9	+ 40 51	7.5	67.3	42.6	71.8
2609	15 25.7	+ 41 20	4.5	67.3	42.7	71.4
	15	+				

3910	16 9.3	− 3 35	6.0	27.7	17.6	
3903	16 6.7	− 3 19	3.0	27.9	17.7	
3896	16 5.8	− 3 41	7.3	27.8	17.5	
~~3895~~	~~16 5.8~~	~~− 3 44~~	~~8.8~~			
3891	16 5.3	− 3 51	6.5	27.9	17.6	
3859	15 54.1	− 3 21	7.0	87.7	17.6	

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			No. Lines	K	Focus	Other Lines	V.	H.	V.	H.
	22,2	22,6	I	3	N	1	—	11.1	45.2	X6.7	42.7
	22.0	23,1	I	7	K=1/2 H	3	F,	11.0	46.2	X6.8	41.7
?	21,4	12.8	III	2	K=H	2	Rem,	10.7	25.6	X7.1	62.3
	21,6	17,1	I	4	N	1	—	10.8	30.2	X7.0	57.7
	21,4	22,8	I	10	?	1/2	F,	10.7	45.6	X7.1	42.3
	20,6	21,9	I	6	N	3	F.	10.3	43.8	X7.5	44.1
	18,7	6,4	I	1/2	N	2	—	9.4	12.8	8.4	75.1
	18,0	9,5	III	2	K=H	1	—	9.0	19.0	8.8	68.9
	18,1	10,2	I	1/2	N	1	—	9.0	20.4	8.8	67.5
	18,0	11,3	III	1	N	1	—	9.0	22.6	8.8	65.3
	18,9	19,6	III	2	K=H	1	—	9.4	38.2	8.4	48.7
	17,6	10,9	III	3	K=H	1	—	8.8	21.8	9.0	66.1
	17,4	11,1	III	1	N	1	—	8.7	22.2	9.1	65.7
	17,0	17,2	III	1	N	1	—	8.5	30.4	9.3	57.5
	18,0	24,5	I	7	?	3	F.	9.0	49.0	8.8	38.9
	16,2	6,2	I?	4	K=H	1	—	8.1	12.4	9.7	75.5
	16,3	6,5	I	4	?	1	—	8.2	13.0	9.6	74.9
	16,6	21,3	III	2	K=H	1	—	8.3	42.6	9.5	45.3
	17,6	11,1	III	2	K=H	1	—	7.8	22.2	0	65.7
	17,4	14,6	III	2	K=H	1	—	7.7	29.2	0.1	58.7
	17,5	16,2	III	1	N	1	—	7.8	32.4	0	55.5
	17,1	23,9	III	2	K=H	1	—	7.6	47.8	0.2	40.1
	14,5	6,9	III	1	N	1	—	7.2	13.8	0.6	74.1
	14,8	11,6	III	2	K=H	1	—	7.4	23.2	0.4	64.7
	14,4	17,4	III	2	K=H	1	—	7.2	34.8	0.6	53.1
	13,6	6,6	I	3	N	1	—	6.8	13.2	1.0	74.7
	13,3	7,1	III	1	N	1	—	6.6	14.2	1.2	73.7
	13,0	12,9	III	1	N	1	—	6.5	25.8	1.3	62.1

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No.	R.A.	Decl.	Mag.	H.V.	
3833	15	42.4 - 3	28	7.2	87.6 17.6
3829	15	41.4 - 3	22	6.0	87.6 17.6
3884	16	2.3 - 3	5	6.1	27.9 17.6
4105	15	57.8 - 2	57	7.7	88.0 17.8
4052	16	42.0 - 3	59	3.8	87.6 17.7
4058	15	43.7 - 2	39	5.6	87.5 17.7
3174	16	15.1 - 1	44	6.7	27.9 17.7
3161	16	8.9 - 1	17	7.2	27.9 17.7
3157	16	7.6 - 1	25	7.5	28.0 17.6
3144	16	5.3 - 1	21	7.2	27.9 17.6
3118	15	48.4 - 1	44	7.0	87.6 17.7
3149	16	6.2 - 1	7	6.8	27.8 17.7
3147	16	5.8 - 1	2	8.0	28.0 17.7
3052	15	57.3 - 0	46	7.9	87.7 17.7
3092	15	38.6 - 1	21	5.5	87.6 17.6
3105	16	15.6 - 0	31	7.0	28.0 17.6
	16				
3026	15	45.1 - 0	54	8.0	87.7 17.4
3078	16	5.8 - 0	9	7.5	28.0 17.7
3454	15	58.8 + 0	1	8.3	88.0 7.7
3049	15	55.3 - 0	1	7.8	87.7 17.7
3401	15	39.9 + 0	10	7.5	87.7 7.8
3505	16	14.2 + 0	26	7.7	28.0 7.6
3469	16	4.8 + 0	17	8.2	28.0 7.7
3441	15	52.9 + 0	32	8.5	87.7 7.7
3508	16	14.8 + 0	51	8.4	28.0 7.6
3503	16	13.7 + 0	58	8.3	27.9 7.6
3168	16	2.3 + 1	11	7.0	28.1 7.7

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Plate 137 V.

	T	H	Type	No. Lines	K	Focus	Other Lines	V.	H.	V.	H.
?	13,4	15,4	II	2	K=H	2	diff.	4.7	30.8	8.1	57.1
	13,5	18,1	I	4	N	1	—	4.8	36.2	8.0	51.7
?	12,6	6,6	II?	3	K=H	4	F, diff.	6.3	13.2	1.5	74.7
	11,6	8,8	III	1	N	1	F?	5.8	17.6	2.0	70.3
	11,5	12,6	III	3	K=H	2	F	5.8	25.2	2.0	62.7
	11,2	14,6	III	1	N	1	—	5.6	29.2	2.2	58.7
	11,2	16,1	III?	1	N	1	—	5.6	32.2	2.2	55.7
	11,4	23,5	III	1	N	1	—	5.7	47.0	2.1	40.9
	11,5	23,9	III	1	N	1	—	5.8	47.8	2.0	40.1
	10,3	14,5	III	1	N	1	—	5.2	29.0	2.6	58.9
?	10,3	22,4	III	3	K=H?	3	F, Bright diff.	5.2	44.8	2.6	43.1
?	9,4	10,5	II?	2	K=H	2	diff.	4.7	21.0	3.1	66.9
	9,4	12,4	III	1	N	1	—	4.7	24.8	3.1	63.1
	9,6	22,6	II	4	?	1	—	4.8	45.2	3.0	42.7
	8,5	6,5	II	2	K=H	1	—	4.2	13.0	3.6	74.9
	8,6	15,0	III	2	K=H	1	—	4.3	30.0	3.5	57.9
?	7,9	13,2	III	2	K=H	1	F, diff.	4.0	26.4	3.8	61.5
	7,9	14,0	III	1	N	1	—	4.0	28.0	3.8	59.9
	7,9	19,0	II	5	N	2	F	4.0	38.0	3.8	49.9
	6,1	10,1	III	2	K=H	1	—	3.0	20.2	4.8	67.7
?	6,0	17,2	III	3	K=H	3	F, diff.	3.0	34.4	4.8	53.5
	5,3	18,3	III	2	K=H	1	—	2.6	36.6	5.2	51.3
	5,9	22,2	II	9	?	5	F	3.0	44.4	4.8	43.5
?	4,8	11,1	III	3	K=H	2	F, Bright diff.	2.4	22.2	5.4	65.7
?	4,9	15,7	III	2	K=H	2	F? Bright diff.	2.4	31.4	5.4	56.5
	2,8	22,4	II	4	N	1	—	1.4	44.8	6.4	43.1
	3,9	14,5	II	2	K=H	1	—	2.0	29.0	5.8	58.9
	2,0	13,1	II?	2	N	2	F	1.0	26.2	6.8	61.7
	4,1	20,4	III	2	K=H	1	—	2.0	40.8	5.8	47.1
	2,6	11,0	II	2	K=H	1	—	1.3	22.0	6.5	65.9
2 30	?	3,0	10,6	III	1	N	1	diff.	1.5	21.2	6.3	66.7

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No.	R.A.	Dec.	Mag.	H.	V.		
3160	15	57.1	+ 1	4	7.2	87.9	7.8
3151	15	51.7	+ 1	0	7.5	87.9	7.8
3215	16	14.7	+ 1	22	5.0	27.9	7.7
3194	16	10.4	+ 1	51	7.4	28.0	7.6
3170	16	2.9	+ 1	59	7.0	27.1	7.8
3042	15	58.9	+ 2	6	7.3	88.1	7.7
3033	15	55.6	+ 2	6	8.0	87.8	7.7
3001	15	40.8	+ 2	2	8.0	87.8	7.7
3131	15	40.1	+ 1	60	7.0	87.9	7.8
3043	15	59.1	+ 2	29	8.4	88.1	7.7
3007	15	43.0	+ 2	38	5.8	87.8	7.8
3151	16	7.1	+ 3	2	7.5	28.1	7.7
3004	16	3.4	+ 2	60	8.0	28.2	7.7
3004	15	42.6	+ 2	57	7.5	87.8	7.8
3174	16	15.1	+ 3	26	7.4	28.1	7.6
3122	15	57.9	+ 3	25	8.5	87.9	7.8
3132	16	1.8	+ 3	50	6.3	28.2	7.8
3128	16	0.2	+ 3	46	8.1	28.2	7.8
3104	15	50.0	+ 3	49	7.3	88.0	7.8
3144	16	8.1	+ 4	38	8.5	28.3	7.6
3096	15	53.7	+ 4	50	6.1	88.1	7.8
3117	15	51.3	+ 5	10	7.3	87.9	7.8
3069	15	43.6	+ 4	55	3.5	88.0	7.9
3165	16	6.1	+ 5	24	5.8	28.7	7.8
3131	15	56.6	+ 5	23	6.5	88.0	7.8
3103	15	43.1	+ 6	24	8.0	87.9	7.8
3137	15	59.3	+ 5	48	8.0	88.3	7.8
3169	16	2.1	+ 6	48	6.5	28.3	7.8
3108	15	47.3	+ 5	44	7.5	88.1	7.7
3183	16	6.2	+ 6	25	8.0	28.2	7.7
3184	16	7.1	+ 6	16	7.0	28.3	7.8

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Plate 141V.

	r	H	Type	No. Lines	K	Focus	Other lines.	V.	H.	V.	H	Corrc.
1	21.1	14.7	III	1	N	1	—	10.6	29.4	27.2	42.8	+ 0.0
	21.5	17.6	II	3	K=H	1	F.	10.8	35.2	27.0	37.0	− 0.6
	21.8	24.1	I	6	?	3	F.	10.9	48.2	26.9	24.0	− 2.0
	18.6	6.7	III	2	K=H	1	—	9.3	13.4	28.5	58.8	+ 2.0 0.1
?	18.6	7.1	III	2	N	2	F. Bright line	9.3	14.2	28.5	58.0	+ 1.9
?	18.9	13.9	III	3	K=H	3	F. Bright? line	9.4	27.8	28.4	44.4	+ 0.3
	18.9	15.0	I	10	K=1.2H	3	F.	9.4	30.0	28.4	42.2	± 0.0
	17.7	10.5	II	2	K=H	1	—	8.8	21.0	29.0	51.2	+ 1.2
	17.2	10.9	I	5	K=H	1	—	8.6	21.8	29.7 2	50.4	+ 1.1
	17.1	17.8	III	2	K=H	1	—	8.6	35.6	29.2	36.6	− 0.7
	15.8	7.6	I	8	K=1.2H	2	F.	7.9	15.2	29.9	57.0	+ 2.0
	14.9	15.6	II	3	K=H	1	F.	7.4	31.2	30.4	41.0	− 0.3 2
	15.0	22.5	III	2	K=H	1	—	7.5	45.0	30.3	27.2	− 2.0
	13.1	9.4	III	1	N	1	—	6.6	18.8	31.2	53.4	+ 1.6
	13.1	18.4	I	4	K=H	2	—	6.6	36.8	31.2	35.4	− 1.0
?	13.1	18.6	II	2	K=H	1	Rieu.	6.6	3 27.2	31.2	35.0	− 1.0
	12.5	10.3	III	3	K=H	3	F. Bright peaks	6.2	20.6	31.6	51.6	+ 1.4
	11.0	22.7	III?	1	N	1	—	5.5	45.4	32.3	26.8	− 2.5
	10.5	10.2	III	3	K=H	1	F.	5.2	20.4	32.6	51.8	+ 1.5
	10.0	12.2	III	3	K=H	1	F.	5.0	24.4	32.8	47.8	+ 0.9
	10.9	14.2	III	1	N	1	—	5.4	28.4	32.4	43.8	+ 0.1
	9.8	10.4	III	1	N	1	—	4.9	20.8	32.9	51.4	+ 1.4 5
	7.1	12.9	I	7	K=1.2H	2	F.	3.6	25.8	34.2	46.4	+ 0.8 7
	7.6	21.4	III	3	K=H	2	F.	3.8	42.8	34.0	29.4	− 2.1
	7.4	21.4	III	2	K=H	1	—	3.7	42.8	34.1	29.4	− 2.1
	6.8	17.8	III	3	K=H	1	F.	3.4	35.6	34.4	36.6	− 0.6 1.0
	2.5	8.2	I	8	N	3	F.	1.2	16.4	36.6	55.8	+ 2.7
	2.3	19.0	I	6	K=1.7H	2	F.	1.2	38.0	36.6	34.2	− 2.4 1.6

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No.	R.A.	Decl.	Mag.	H.	V.	H′
2176	12	42.7	+27 13	7.3	72.1	37.8	72.1
2383	12	36.2	+26 55	6.8	71.4	37.7	72.0
2354	12	21.6	+26 43	6.0	69.8	37.6	71.8
2187	13	1.0	+28 19	6.8	14.4	37.6	12.4
2185	13	0.3	+28 25	5.1	14.5	37.7	12.6
2156	12	44.7	+28 20	5.0	72.5	37.7	72.2
2153	12	42.3	+28 20	6.2	72.3	37.7	72.3
2171	12	52.6	+28 52	7.3	73.6	37.7	72.4
2348	12	58.6	+29 7	7.0	72.4	37.7	72.3
2319	12	35.5	+29 10	7.5	71.1	37.8	71.8
2365	12	59.3	+29 49	6.8	74.2	37.7	72.2
2329	12	40.8	+30 20	6.8	72.0	37.7	72.2
2287	12	24.6	+30 7	7.3	69.6	37.6	71.6
2442	12	55.4	+31 8	8.0	74.2	37.7	72.6
2397	12	34.0	+31 14	6.8	70.8	37.8	71.8
2396	12	33.5	+31 11	7.2	70.7	37.8	71.7
2434	12	53.4	+31 34	5.2	74.0	37.8	72.6
2252	12	23.8	+32 14	7.4	69.2	37.7	71.5
2311	12	53.5	+32 33	6.8	73.9	37.7	72.4
2296	12	48.8	+32 47	7.2	73.2	37.8	72.3
2281	12	44.0	+32 15	7.5	72.4	37.6	72.3
2310	12	53.1	+32 53	7.5	73.9	37.8	72.4
2369	12	47.3	+34 20	6.5	73.1	37.9	72.4
2332	12	26.5	+34 3	5.4	69.3	37.8	71.4
~~2333~~	~~12~~	~~26.7~~	~~+34~~	12	6.6		
2333	12	26.7	+34 12	6.6	69.7	37.9	71.8
2344	12	35.3	+34 29	7.0	70.9	37.9	71.9
2337	12	59.0	+36 34	5.5	73.4	37.8	72.7
2295	12	32.2	+36 46	6.0	70.2	38.0	71.8

?

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Plate 1449.

			No. Lines		Other Lines.		V.	H.	V.	H
	22.4	9.4	II	2	K=H	1	—	11.2	18.8	6.5	70.3
	22.3	9.9	II	7	K=H	2	F.	11.2	19.8	6.5	69.3
	22.6	11.3	II?	3	N	1	—	11.3	22.6	6.4	66.5
	22.4	11.6	II?	4	K=H	1	—	11.2	23.2	6.5	65.9
	22.8	11.8	II	6	N	2	—	11.4	23.6	6.3	65.5
?	21.9	11.1	III	3	K=H	4	F. Bright point	11.0	22.2	6.7	66.9
	21.4	13.4	III	3	K=H	1	F.	10.7	26.8	7.0	62.3
	21.4	15.7	II	6	N	1	F.	10.7	31.4	7.0	57.7
	21.5	16.9	III	1	N	1	—	10.8	33.8	6.9	55.3
	21.8	17.4	III	3	K=H	1	F.	10.9	34.8	6.8	54.3
	21.4	23.4	II	8	?	V	F.	10.7	46.8	7.0	42.3
	21.9	23.2	II	3	N	1	—	11.0	46.4	6.7	42.7
	21.8	23.8	II	6	K=.5H	2	F.	10.9	47.6	6.8	41.5
	20.4	21.6	III	1	N	1	—	10.2	43.2	7.5	45.9
	20.6	22.6	II	6	?	3	F.	10.3	45.2	7.4	43.9
	19.4	15.9	III	2	K=H	1	—	9.7	11.8	8.0	77.3
	18.6	7.0	II	V	N	2	—	9.3	14.0	8.4	75.1
	18.1	10.7	II	V	N	1	—	9.0	21.4	8.7	67.7
	18.0	11.9	III	2	K=H	1	—	9.0	23.8	8.7	65.3
	18.7	20.3	III	3	K=H	1	F.	9.4	40.6	8.3	48.5
	17.9	10.1	III	2	K=H	1	—	9.0	20.2	8.7	68.9
	17.5	11.5	III	3	K=H	1	F.	8.8	23.0	8.9	66.1
?	16.2	6.7	II?	2	K=H	1	Recon.	8.1	13.4	9.6	75.7
	16.9	15.8	III	2	K=H	1	—	8.4	31.6	9.3	57.5
	16.2	17.2	II	V	K=H?	1	—	8.1	34.4	9.6	54.7
	15.8	6.7	III	2	K=H	1	—	7.9	13.4	9.8	75.7
	15.8	10.7	III	1	N	1	—	7.9	21.4	9.8	67.7
	15.4	11.0	III	1	N	1	—	7.7	22.0	0	67.1

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No.	R.A	Dec.	Mag.	H.	V.
3915	16 10.1	- 3 40	8.2	28.9	17.5 ~~17.4~~
~~3198~~	~~16 10.9~~	~~+ 6 26~~	~~7.7~~		
3910	16 9.3	- 3 35	6.0	29.1	17.6
3901	16 6.5	- 3 47	8.0	29.1	17.5
~~3183~~	~~16 6.2~~	~~+ 6 25~~	~~8.0~~		
3896	16 5.8	- 3 41	7.3	29.0	17.5
3891	16 5.3	- 3 51	6.5	28.9	17.6
3903	16 6.7	- 3 19	3.0	28.9	17.7
3884	16 2.3	- 3 5	6.1	29.1	17.6
3870	15 57.5	- 3 1	6.8	88.9	17.7
3864	15 55.1	- 3 15	8.0	88.9	17.6
3859	15 54.1	- 3 21	7.0	88.9	17.5
4052	15 42.0	- 2 59	3.8	88.8	17.7
3833	15 42.4	- 3 28	7.2	88.8	17.5
3829	15 41.4	- 3 22	6.0	29.0	17.5
4064	15 45.8	- 2 35	7.5	29.0	17.6
4058	15 43.7	- 2 39	5.6	88.9	17.7
4179	16 17.1	- 2 9	7.0	28.9	17.5
3174	16 15.1	- 1 44	6.7	29.1	17.6
3157	16 7.6	- 1 25	7.5	29.0	17.6
3144	16 5.3	- 1 21	7.2	29.1	17.6
3118	15 48.4	- 1 44	7.0	29.0	17.7
3161	16 8.9	- 1 17	7.2	29.1	17.7
3149	16 6.2	- 1 7	6.8	29.2	17.7
3105	16 15.6	- 0 31	7.0	29.0	17.6
3052	15 57.3	- 0 46	7.9	88.9	17.6
3048	15 54.7	- 0 25	7.2	89.1	17.7
3106	16 15.7	- 0 22	8.0	89.1	17.5
3085	16 7.8	- 0 16	8.2	89.2	17.6
3082	16 7.2	- 0 1	8.2	29.2	17.6
~~3082~~	~~16 7.2~~	~~- 0~~			

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Plate 1449.

			No. Lines	K	Focus	Other Lines.	V.	H.	V.	H.
	15,6	11,7	III	1	N	1	—	7.8	23.4	9.9	65.7
	15,2	15,1	III	1	N	1	—	7.6	30.2	0.1	58.9
	15,4	16,8	III	1	N	1	—	7.7	33.6	0	55.5
	14,5	7,5	III	2	K=H	1	—	7.2	15.0	0.5	74.1
	14,7	12,2	III	2	K=H	1	—	7.4	24.4	0.3	64.7
	13,6	7,1	II	3	N	1	—	6.8	14.2	0.9	74.9
	13,0	13,4	III	2	K=H	1	—	6.5	26.8	1.2	62.3
	13,2	15,9	II	3	K=H	2	F,	6.6	31.8	1.1	57.3
	13,4	18,6	II	4	N	1	—	6.7	37.2	1.0	51.9
?	12,6	7,2	II?	3	K=H	4	F, rem	6.3	14.4	1.4	74.7
	11,6	9,4	III	3	K=H	1	F.	5.8	18.8	1.9	70.3
	11,4	13,2	III	2	K=H	1	—	5.7	26.4	2.0	62.7
	11,1	15,1	III	2	K=H	1	—	5.6	30.2	2.1	58.9
	11,2	16,7	II?	2	K=H	1	—	5.6	33.4	2.1	55.7
?	10,2	23,0	III	3	K=H	2	F, rem	5.1	46.0	2.6	43.1
	9,3	11,1	II	2	K=H	1	—	4.6	22.2	3.1	66.9
	9,5	23,2	I?	3	N	1	—	4.8	46.4	2.9	42.7
	8,5	7,1	II	2	K=H	1	—	4.2	14.2	3.5	74.9
	7,8	13,8	III	2	N	2	F, rem	3.9	27.6	3.8	61.5
	7,8	19,5	I	5	K=H	1	F,	3.9	39.0	3.8	50.1
	6,1	10,6	III	1	N	1	—	3.0	21.2	4.7	67.9
?	5,9	17,7	III	2	K=H	2	rem	3.0	35.4	4.7	53.7
	5,8	22,7	I	9	N	5	F	2.9	45.4	4.8	43.7
	4,7	11,6	III	3	K=H	2	F, rem	2.4	23.2	5.3	65.9
	4,8	16,2	III	3	K=H	2	F, rem	2.4	32.4	5.3	56.7
	4,0	20,9	III	3	K=H	1	F	2.0	41.8	5.7	47.3
	3,6	8,5	III	1	N	1	—	1.8	17.0	5.9	72.1
?	3,8	15,0	III	1	N	?	rem	1.9	30.0	5.8	59.1

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No.	R.A.	Dec.	Mag.	H.	V.	
3078	16	5.8	- 0 9	7.5	29.2	8.0
3454	15	58.8	+ 0 1	8.0	89.0	7.6
3049	15	55.3	- 0 0	7.8	88.9	7.7
3505	16	14.2	+ 0 26	7.7	29.2	7.6
3469	16	4.8	+ 0 17	8.2	29.2	7.7
3508	16	14.8	+ 0 51	8.4	29.0	7.6
3168	16	2.3	+ 1 11	7.0	29.1	7.7
3160	15	57.1	+ 1 4	7.2	88.9	7.7
3151	15	51.7	+ 1 0	7.5	88.9	7.7
3215	16	14.7	+ 1 22	5.0	29.1	7.7
3194	16	10.4	+ 1 51	7.4	29.2	7.6
3170	16	2.9	+ 1 59	7.0	29.3	7.7
3042	15	58.9	+ 2 6	7.3	89.1	7.7
3033	15	55.6	+ 2 6	8.2	89.0	7.7
3007	15	43.0	+ 2 38	6.8	89.0	7.7
3151	16	7.1	+ 3 2	7.5	29.3	7.6
3004	15	42.6	+ 2 57	7.5	89.0	7.8
3173	16	15.0	+ 3 14	7.0	29.2	7.4
3132	16	1.8	+ 3 50	6.3	29.4	7.7
3104	15	50.0	+ 3 49	7.3	89.0	7.7
3144	16	8.1	+ 4 38	8.5	29.3	7.6
3096	15	53.7	+ 4 50	6.1	89.1	7.8
3069	15	43.6	+ 4 55	3.5	89.0	7.8
3165	16	6.1	+ 5 24	5.8	29.3	7.8
3131	15	56.6	+ 5 23	6.5	89.0	7.8
3108	15	47.3	+ 5 44	7.5	89.1	7.7
3180	16	12.3	+ 5 54	7.8	29.3	7.7
3137	15	59.3	+ 5 48	8.0	89.3	7.7

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Plate 1449.

		Type	No. Lines	K	Focus	Other Lines.		V.	H.	V.	H.
2.9	11.1	III	3	K=H	1	F.	1.4 5.6	22.2	6.3 2.1	66.9
2.6	9.2	III	1	N	1	—	1.3 4.6	18.4	6.4 3.1	70.7
2.6	11.6	II	2	K=H	1.	—	1.3 5.8	23.2	6.4 1.4	65.9
? 2.0	13.6	III	2	N	2	F, perm.	1.0 6.8	27.2	6.7 0.9	61.9
2.6	23.0	I	4	K=H	1	—	1.3 11.5	46.0	6.4 6.2	43.1

Plate 1464.

21.6	11.1	I	4	K=H	1	—	10.8	22.2 5.6	11.9	67.7 84.3
21.1	13.8	I	3	?	2	—	10.6	27.6 6.9	12.1	62.3 83.0
21.2	20.9	II	2	K=H	1	—	10.6	41.8 10.4	12.1	48.1
19.0	12.1	I	8	K=H	2	F.	9.5	24.2 6.0	13.2	65.7
19.5	19.9	I	4	K=H	1	F;	9.8	39.8 10.5	12.9	50.1
? 19.2	23.4	III?	2	K=H	1	F? perm.	9.6	4.68 11.7	13.1	43.1
18.8	13.9	III	1	N	1	—	9.4	27.8 7.0	13.3	62.1
? 18.0	14.8	III?	3	K=H	2	F, perm	9.0	29.6 7.4	13.7	60.3
18.0	15.4	III	2	N	2	F.	9.0	30.8 7.7	13.7	59.1
18.0	17.8	III	3	K=H	1	F.	9.0	35.6 8.9	13.7	54.3
18.1	21.6	II	3	K=H	3	F, perm	9.0	43.2 10.8	13.7	46.7
18.9	23.7	I	6	?	2	—	9.4	47.4 11.8	13.3	42.5
17.0	7.2	III	2	K=H	1	—	8.5	14.4 3.6	14.2	75.5
17.6	12.0	III	3	K=H	2	F.	8.8	24.0 6.0	13.9	65.9
17.7	17.3	I	4	K=H	1	—	8.8	34.6 8.6	13.9	55.3
16.6	6.0	I	8	N	1	F.	8.3	12.0 3.0	14.4	77.9
16.6	10.7	III	2	K=H	1	—	8.3	21.4 5.4	14.4	68.5
16.6	16.8	III	1	N	1	—	8.3	33.6 8.4	14.4	56.3
16.3	23.2	III	1	N	1	—	8.2	46.4 11.6	14.5	43.5
16.8	24.0	III	2	N	1 :	F.	8.4	48.0 12.0	14.3	41.9
? 15.9	19.5	III	3	K=H	2	F. Bright perm.	8.0	39.0 9.8	14.7	50.9

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No.	R.A.	Dec.	Mag.	H.	Y.		
3184	16	7.1	+ 6	16	7.0	29.3	7.7
3198	16	10.9	+ 6	26	7.7	29.3	7.7
3183	16	6.2	+ 6	25	8.0	29.4	7.7
3169	16	2.1	+ 6	48	6.5	29.3	7.8
3183	15	43.1	+ 6	24	8.0	89.1	7.7
2941	16	7.2	+ 11	48	8.5	29.4	22.6
2947	16	8.2	+ 11	52	6.9		?
2925	16	2.6	+ 11	57	7.7	30 29.2	22.6 ?
2883	15	48.0	+ 11	57	7.8	89.8	22.6
3089	16	6.2	+ 13	11	7.2	30.2	22.7 ?
2918	15	50.0	+ 12	55	7.3	89.8	22.7
2904	15	42.7	+ 12	60	7.0	89.5	22.6
3075	16	2.4	+ 13	19	7.8	30.2	22.7
3069	16	0.7	+ 13	43	7.5	30.3	22.7
3064	15	59.3	+ 13	43	7.5	90.1	22.7
3047	15	54.2	+ 13	42	7.0	89.8	22.7
3024	15	46.5	+ 13	39	6.3	89.7	22.6
3012	15	42.0	+ 13	10	7.0	89.4	22.6
3042	16	16.4	+ 14	10	7.7	30.8	22.7
3091	16	6.6	+ 13	54	6.7	30.6	22.7 ?
3049	15	55.1	+ 13	53	7.5	89.7	22.7
3049	16	18.7	+ 14	22	5.2	30.7	22.7
3025	16	9.2	+ 14	22	8.1	30.6	22.7
2984	15	56.3	+ 14	24	8.1	89.9	22.7
2946	15	43.2	+ 14	31	7.7	89.6	22.7
2940	15	41.5	+ 14	15	7.0	89.5	22.6
2969	15	50.6	+ 14	50	6.0	89.6	22.8

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Plate 1454

	V	H	Type	No. lines	K	Focus	Other lines,	V.	H.	V.	H.
	15.0	20.0	III	2	K=H	1	—	7.5	40.0 10.0	15.2	49.9
	13.1	14.1	III	2	K=H	1	—	6.6	28.2 7.0	16.1	61.7
	13.4	18.0	III	2	K=H	1	—	6.7	36.0 9.0	16.0	53.9
?	13.4	19.9	II	3	K=1.5H	√	F. prem	6.7	39.8 10.0	16.0	50.1
	14.0	22.1	III	2	K=H	1	—	7.0	44.2 11.0	15.7	45.7
	12.0	15.0	II?	1	N	1	—	6.0	30.0 7.5	16.7	59.9
?	12.5	21.3	II	2	K=H	2	F? prem.	6.2	42.6 10.6	16.5	47.3
	11.5	12.8	I	8	K=.2H	3	F.	5.8	25.6 6.4	16.9	64.3
	11.2	14.5	III	1	N	1	—	5.6	29.8 7.2	17.1	60.9
	10.0	13.9	III	2	K=H	1	—	5.0	27.8 7.8	17.7	62.1
	10.4	14.1	I	8	K=.2H	3	—	5.2	28.2 7.0	17.5	61.7
?	10.8	14.4	III	3	K=1.5H	3	F. Bright prem.	5.4	28.8 7.2	17.3	61.1
	10.0	18.2	III	2	K=H	1	—	5.0	36.4 9.1	17.7	53.5
	10.4	19.5	III	1	N	1	—	5.2	39.0 9.8	17.5	50.9
	9.2	16.2	III	1	N	1	—	4.6	33.4 8.1	18.1	67.4 5
	9.2	17.5	III	3	K=H	3	F. Bright prem.	4.6	35.0 7.8	18.1	54.9
	9.3	21.1	III	1	N	1	—	4.6	42.2 10.6	18.1	47.7
	9.8	21.5	III	2	K=H	1	—	4.9	43.8 10.8	17.8	46.9
	8.4	11.2	III	1	N	1	—	4.2	22.4 10.6	18.5	67.5
	8.6	16.8	I	3	N	1	—	4.3	33.6 8.4	18.4	56.3
?	8.4	23.4	III	2	K=H	3	F. Bright prem.	4.2	46.8 11.7	18.5	43.1
	7.3	10.9	III	2	K=H	2	prem.	3.6	21.8 5.4	19.1	68.1
	7.6	20.1	I	8	N	3	F.	3.8	40.2 10.0	18.9	49.7
	6.6	7.8	I?	9	K=.5H?	√	F.	3.3	15.6 3.9	19.4	74.3
	5.8	7.2	I	4	K=H	1	—	2.9	14.4 3.6	19.8	75.5
	5.8	10.5	III	1	N	1	—	2.9	21.0 5.2	19.8	68.9
	4.2	20.6	III	3	K=H	1	F.	2.1	41.2 10.3	20.6	48.7
?	2.8	22.1	III	2	K=H	2	F? prem.	1.4	44.2	21.3	45.7
	2.6	8.7	III	3	K=H	1	F.	1.3	17.4	21.4	72.5

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No.	R.A.	Decl.	Mag.	H.	V.
2933	15 49.6	+15 10	8.1	89.6	22.7
2887	16 2.3	+16 12	7.5	30.5	22.8
2865	15 53.8	+16 5	8.4	89.8	22.8
2849	15 49.8	+16 9	3.8	89.6	22.9
2923	15 45.4	+15 40	8.0	89.6	22.7
2881	16 0.2	+16 46	8.0	30.2	22.8
2840	15 47.0	+16 31	7.2	89.7	22.7
2982	16 4.9	+17 3	6.1	30.5	22.8
2962	16 1.2	+17 7	7.9	30.2	22.6
2967	16 2.2	+17 37	6.5	30.2	22.6
2965	16 1.5	+17 27	7.0	29.7	22.6
~~2964~~	~~16 1.5~~	~~+17 26~~	~~5.5~~		
2964	16 1.5	+17 26	5.5	30.3	22.8
2957	15 53.7	+17 35	8.3	90.1	22.6
2938	15 50.7	+17 36	8.2	89.7	22.8
3108	16 5.7	+18 12	6.7	89.7	22.8
3101	15 54.7	+18 14	5.0	89.7	22.8
3084	15 47.2	+18 3	8.0	89.4	22.6
2926	15 46.4	+17 51	6.5	89.4	22.7
3148	16 8.3	+18 35	7.5	30.7	22.8
3104	15 56.1	+18 31	7.3	89.7	22.8
3074	15 42.2	+18 37	4.0	89.0	22.8
3075	16 9.1	+19 12	6.0	30.9	22.8
3036	15 49.2	+19 3	6.2	89.4	22.8
3086	16 15.5	+19 30	3.0	31.1	22.8
3089	16 16.7	+19 51	7.8	31.1	22.7
3076	16 9.9	+19 52	7.8	30.9	22.8
3166	15 48.2	+20 45	6.2	89.4	22.9
2829	15 44.9	+21 26	5.0	89.1	22.8
2902	16 1.8	+21 29	6.5	31.2	22.8

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Plate 1459.

V	H	Type	No. Lines	K	Focus	Other Lines.	V.	H.	V.	H.	Corrc
? 23.0	20.4	II?	2	K=1.5H	√	seen.	11.5	40.8	16.2	50.4	− 0.9
? 22.3	21.8	II?	3	K=H	1	F, seen.	11.2	43.6	16.5	47.6	− 0.7
21.3	13.3	I	7	K=.2H?	2	F.	10.6	26.6	17.1	64.6	+ 0.2
20.2	14.6	I	6	K=.2H?	2	F.	10.1	29.2	17.6	62.0	+ 0.0
? 20.5	14.9	III	2	K=H	3	seen.	10.2	29.8	17.5	61.4	+ 0.0
19.0	18.0	III	2	K=H	3	seen.	9.5	36.0	18.2	55.2	∓ 0.6
19.0	16.8	III	1	N	1	—	9.5	33.6	18.2	57.6	∓ 0.3
19.7	22.0	III	1	N	1	—	9.8	44.0	17.9	47.2	∓ 0.7
18.4	17.3	I	3	N	1	—	9.2	34.6	18.5	56.6	− 0.3
? 18.2	23.9	III	3	K=H	3	F, Bright seen.	9.1	47.8	18.6	43.4	− 1.3
? 17.1	11.4	III	1	N	2	Bright seen.	8.6	22.8	19.1	68.4	+ 0.6
17.4	20.6	I	6	N	3	—	8.7	41.2	19.0	50.0	− 0.8
16.5	18.3	I?	9	K=.5H	√	F.	8.2	36.6	19.5	54.6	− 0.6
15.6	7.7	I	3	N	1	—	7.8	15.4	19.9	75.8	+ 0.2
? 14.0	21.0	III	1	N	1	F. Bright seen.	7.0	42.0	20.7	49.2	− 0.2
12.6	9.2	III	2	K=H	2	—	6.3	18.4	21.4	72.8	+ 0.2
? 12.6	22.5	III	2	K=H	3	F? Bright seen.	6.3	45.0	21.4	46.2	− 1.5
11.1	8.3	III	1	N	1	—	5.6	16.6	22.1	74.6	+ 1.5
11.6	12.4	I	6	K=.5H?	2	—	5.8	24.8	21.9	66.4	+ 0.6
? 11.1	15.0	III	2	K=H	1	seen.	5.6	30.0	22.1	61.2	+ 0.0
10.3	8.6	III	2	K=H	1	—	5.2	17.2	22.5	74.0	+ 1.5
10.9	15.7	II	2	K=H	1	—	5.4	31.4	22.3	59.8	− 0.2
10.2	17.1	I	√	N	2	—	5.1	34.2	22.6	57.0	− 0.6
9.9	7.0	I	3	N	1	—	5.0	14.0	22.7	77.2	+ 2.1
9.1	17.2	I	10	K=.2K	√	F.	4.6	34.4	23.1	56.8	− 0.6
9.0	17.1	I	3	N	1	—	4.5	34.2	23.2	57.0	− 0.6
9.8	22.4	III?	1	N	1	—	4.9	44.8	22.8	46.4	− 1.8
9.6	23.6	III	1	N	1	—	4.8	47.2	22.9	44.0	− 2.4

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No.	R.A.	Dec.	Mag.	H.	V.	H'
2849	15 49.8	+16 9	3.8	90.6	27.7	91.2
2840	15 47.0	+16 31	7.2	90.6	27.7	91.3
2982	16 4.9	+17 3	6.1	31.5	27.6	31.3
2967	16 2.2	+17 37	6.5	31.4	27.7	31.4
2964	16 1.5	+17 26	5.5	31.3	27.6	31.3
3101	15 54.7	+18 14	5.0	90.7	27.7	91.1
3108	15 57.3	+18 12	6.7	90.9	27.7	91.2
2926	15 46.4	+17 51	6.5	90.4	27.6	91.1
3104	15 56.1	+18 31	7.3	90.7	27.7	91.0
3074	15 42.2	+18 37	4.0	90.0	27.7	91.3
3074	16 9.1	+19 12	6.0	31.9	27.8	31.4
3036	15 49.2	+19 3	6.2	90.4	27.7	91.1
3089	16 16.7	+19 51	7.8	32.1	27.6	31.2
3166	15 48.2	+20 45	6.2	90.2	27.8	91.0
2902	16 13.8	+21 29	6.5	32.2	27.8	31.4
2829	15 44.9	+21 26	5.0	89.9	27.7	90.9
2959	16 15.6	+22 9	7.5	32.1	27.8	31.1
2886	16 6.9	+21 56	6.8	31.7	27.7	31.3
2926	16 1.1	+22 13	6.5	31.1	27.8	31.1
2958	16 15.0	+22 37	7.0	32.2	27.8	31.2
2921	15 59.4	+22 19	7.0	90.8	27.7	90.9
2914	15 56.5	+22 38	6.8	90.7	27.7	91.1
2969	16 18.5	+22 44	7.7	32.5	27.7	31.0
2886	15 56.1	+23 12	4.6	90.5	27.8	90.9
2887	15 56.5	+23 12	7.6	90.7	27.7	91.1
2889	15 44.8	+22 45	8.0	89.6	27.7	90.8
2883	15 42.2	+22 52	6.5	89.8	27.7	91.1

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Plate 1459.

						Other Lines.	V.	H.	V.	H.	Corrn.
	8.6	10.9	III	2	K=H	1	—	4.3	21.8	23.4	69.4	+ 0.6
	8.6	18.3	I	4	K=H	1	÷	4.3	36.6	23.4	54.6	- 0.7
?	7.9	13.1	III	3	K=H	1	F, nm.	4.0	26.2	23.7	65.0	+ 0.6
	4.4	16.3	III	2	K=H	1	—	2.2	32.6	25.5	58.6	- 0.5
	3.0	10.0	III	2	K=H	1	—	1.5	20.0	26.2	71.2	+ 1.5
?	2.5	22.8	I?	2	K=H?	3	F, nm.	1.2	45.6	26.5	45.6	- 2.4

Plate 1320.

							H2				
	22.4	13.1	I?	4	K=H	1	—	10.2	26.2	6.4	22.7
	21.1	11.6	III	1	N	1	—	10.6	23.2	7.0	25.7
	22.5	20.8	III	2	K=H	1	—	11.2	41.6	6.4	7.3
	22.2	21.2	I	3	N	1	—	10.8	42.4	6.5	6.5
	21.6	23.2	III	3	K=H	2	F, nm.	10.8	46.4	6.8	2.5
	20.1	9.6	I	5	N	2	—	10.0	19.2	7.6	29.7
	20.5	15.8	I	9	K=2H	4	F?	10.2	31.6	7.4	17.3
	20.2	20.9	I	4	K=H	1	—	10.1 9.4	41.8	7.5	7.1
	18.9	13.2	III	1	N	1	—	9.4	26.4	8.2	22.5
	18.6	20.5	III	1	N	1	—	9.3 8.6	41.0	8.3	7.9
	17.1	10.8	III	2	N	1	F	8.6 7.0	21.6	9.0	27.3
	17.9	12.3	III	3	K=H	1	F	9.0 8.8	24.6	8.6	24.3
	17.5	14.9	III	1	N	1	—	8.8	29.8	8.8	19.1
	17.4	23.5	III	2	K=H	1	—	8.7	47.0	8.9	1.9
	16.7	11.3	I?	3	N	1	—	8.4	22.6	9.2	26.3
	16.0	14.7	III	2	K=H	1	—	8.0	29.4	9.6	19.5
	15.4	9.1	I	3	N	1	—	7.7	18.2	9.9	30.7
?	15.7	12.1	III?	3	K=H	2	F, nm.	7.8	24.2	9.8	24.7
	15.8	15.0	III	1	N	1	—	7.9	30.0	9.7	18.9
	15.0	22.0	I	7	K=1.5H?	2	—	7.5	44.0	10.1	4.9

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No.	R.A.	Decl.	Mag.	H.	V.	H'
2916	16	10.1 +23	29	7.0	31.9	27.8 31.3
2876	15	53.8 +23	26	7.3	90.4	27.7 90.9
2309 2924	16	35.5 +23	53	6.0	31.7	27.9 31.3
3020	15	58.1 +25	38	7.5	90.7	27.8 91.0
2817	16	12.4 +26	15	6.5	32.4	27.7 31.4
2737	15	43.5 +26	32	4.5	89.1	27.7 90.8
3236	16	22.7 +6	18	7.0	48.9	17.5
3234	16	25.8 +6	56	8.0	49.0	17.5
3184	16	7.1 +6	16	7.0	48.7	17.5
3183	16	6.2 +6	25	8.0	48.6	17.5
3169	16	2.1 +6	48	6.5	48.5	17.6
3209	16	29.8 +7	23	8.0	49.0	17.4
3164	16	17.1 +7	17	6.0	48.7	17.5
3120	16	6.8 +7	22	7.5	48.6	17.5
3210	16	22.8 +8	4	7.3	49.2	17.5
3158	16	7.7 +8	14	7.0	48.7	17.5
3219	16	27.5 +8	59	7.5	49.1	17.6
3215	16	24.5 +8	37	7.7	49.1	17.6
3194	16	19.3 +8	57	7.7	49.1	17.6
3141	16	1.5 +8	56	6.4	48.5	17.6
3225	16	26.7 +9	8	8.7	49.3	17.5
3208	16	19.8 +9	37	7.0	49.2	17.6
3241	16	31.0 +9	47	8.2	49.2	17.5
3218	16	25.0 +9	44	6.8	49.2	17.5
3203	16	18.8 +9	43	6.8	48.8	17.6
2971	16	4.6 +10	6	7.0	48.6	17.6

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Plate 1320.

V	H	Type	No. Lines	K	Focus	Other lines.		V.	H.	V.	H.
14,0	15,6	III	1	N	1	—		7.0	31.2	10.6	17.7
14,2	22,3	I	3	N	1	—		7.1	44.6	10.5	4.3
14,1	23,6	I	V	N	2	—		7.0	47.2	10.6	1.7
14,5	23,8	I	7	K=.5H	3	—		7.2	47.6	10.4	1.3
13,0	9,7	I	4	K=H	1	—		6.5	19.4	11.1	29.5
13,8	11,3	I	7	K=.5H	2	—		6.9	22.6	10.7	26.3
13,4	13,3	III	2	K=H	1	—		6.7	26.6	10.9	22.3
13,8	18,9	I	3	N	1	—		6.9	37.8	10.9	11.1
13,4	22,8	II	1	N	1	—		6.7	45.6	10.9	3.3
12,6	14,6	III	1	N	1	—		6.3	29.2	11.3	19.7
? 11,6	11,7	III	1	N	3	Bright		5.8	23.4	11.8	25.5
? 11,8	14,9	III	2	K=H	2	diff.		5.9	29.8	11.7	19.1
11,7	15,7	III	1	N	1	—		5.8	31.4	11.8	17.5
11,6	19,7	III	1	N	1	—		5.8	39.4	11.8	9.5
11,5	20,2	I	V	K=H	1	—		5.8	40.4	11.8	8.5
11,6	21,0	II	1	N	1	—		5.8	42.0	11.8	6.9
11,2	22,9	II?	1	N	1	F		5.6	45.8	12.0	3.1
11,0	22,9	I?	4	K=H	2	—		5.5	45.8	12.1	3.1
10,0	16,7	III	1	N	1	—		5.0	33.4	12.6	15.5
9,8	7,7	I	6	?	3	—		4.9	15.4	12.7	33.5
9,2	8,8	II	2	K=H	1	—		4.6	17.6	13.0	31.3
8,4	18,7	I	3	N	1	—		4.2	37.4	13.4	11.5
8,9	21,2	I	7	K=.5H	2	F		4.4	42.4	13.2	6.5
8,6	23,0	II	1	N	1	—		4.3	46.0	13.3	2.9
? 7,3	9,2	II?	2	K=H	2	diff.		3.6	18.4	14.0	30.5
7,8	11,1	III	1	N	1	—		3.9	22.2	13.7	26.7
7,5	13,6	I	V	K=.2H	1	—		3.8	27.2	13.8	21.7
7,5	21,0	II?	2	K=H	2	—		3.8	42.0	13.8	6.9

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No.	R.A.	Dec.	Mag.	H.	V.
2996	16	17.5	+10 36	7.2	48.7	17.6
2968	16	3.8	+10 25	7.2	48.4	17.5
2971	16	4.6	+10 5	7.0	49.2	
2959	16	1.2	+10 29	7.3	48.4	17.5
2958	16	0.7	+10 17	6.2	48.3	17.5
3015	16	29.9	+11 1	8.0	49.3	17.5
3025	16	26.7	+10 41	7.0	49.3	17.6
3012	16	22.6	+10 55	7.8	49.2	17.6
2983	16	10.9	+10 40	8.1	48.7	17.6
2928	16	3.1	+11 1	8.7	48.7	17.7
2987	16	19.9	+11 19	7.2	49.1	17.6
3008	16	25.8	+11 49	5.2	49.2	17.6
2984	16	19.4	+11 46	6.5	49.2	17.7
2978	16	17.3	+11 46	8.0	48.7	17.6
2951	16	9.2	+11 48	7.5	48.6	17.6
2947	16	8.2	+11 52	6.9	48.6	17.7
2939	16	6.6	+11 48	8.2	48.6	17.6
2925	16	2.6	+11 57	7.7	48.4	17.6
~~2954~~	~~16~~	~~2.6~~	~~+12 8~~	~~7.2~~		
2954	16	2.6	+12 8	7.2	48.4	17.6
3003	16	15.3	+12 35	8.3	48.7	17.6
3063	16	34.1	+12 42	6.0	49.5	17.6
3054	16	31.8	+12 56	7.2	49.4	17.5
3110	16	11.3	+13 24	8.1	48.7	17.6
3089	16	6.2	+13 11	7.2	48.6	17.6
3075	16	2.4	+13 19	7.8	48.4	17.6
3177	16	31.1	+13 60	6.0	49.5	17.6
3167	16	27.1	+13 43	7.2	49.3	17.6
3155	16	22.1	+13 56	7.2	49.3	17.7
3091	16	6.6	+13 54	6.7	48.6	17.7

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Plate 1320.

V	H	Type	No. Lines	K	Focus	Other lines.	V.	H.	V.	H.
7.8	23.8	I?	3	N	1	—	3.9	47.6	13.7	1.3
6.6	15.1	I	10	N	V	F	3.3	30.2	14.3	18.7
6.9	16.2	II	1	N	1	—	3.4	32.4	14.2	16.5
V.6	9.6	I	V	N	2	—	2.8	19.2	14.8	29.7
4.9	8.9	I	4	N	1	—	2.4	17.8	15.2	31.1
4.3	12.9	I?	4	K=H	1	—	2.2	25.8	15.4	23.1
3.6	9.7	I	6	N	3	—	1.8	19.4	15.8	29.5
3.9	13.9	II	2	K=H	1	—	2.0	27.8	15.6	21.1
3.1	13.9	I	4	N	1	—	1.6	27.8	16.0	21.1
2.6	14.6	II	2	K=H	2	—	1.3	29.2	16.3	19.7

Plate 1465.

	22.5	6.2	I	3	N	2	—	11.2	12.4	1.5	38.2
?	22.2	8.1	II	2	K=H	2	Rem	11.1	16.2	1.6	33.4
	22.6	17.9	I	7	K=H	3	F	11.3	35.8	1.4	14.8
	20.8	13.6	I	11	K=1.2H?	V	F	10.4	27.2	2.3	22.4
	20.0	15.V	III	3	K=H	1	F	10.0	31.0	2.7	18.6
	19.6	15.8	I	V	N	2	—	9.8	31.6	2.9	19.0
	18.0	12.9	I	3	N	1	—	9.0	25.8	3.7	24.8
	18.4	17.7	III?	1	N	1	—	9.2	35.4	3.5	15.2
	19.1	21.7	III	1	N	1	—	9.6	43.4	3.1	7.2
	16.4	8.7	I	7	N	4	F	8.2	17.4	4.5	33.2
	16.3	13.7	II	2	K=H	1	—	8.2 6.8	27.4	4.5 6.0	23.2
	15.0	8.2	I	6	K=1.V H	1	—	7.5	16.4	5.2	34.2
	14.2	10.2	III	2	K=H	1	—	7.1	20.4	5.6	30.2
?	14.6	22.2	III	3	K=H	2	F.rem	7.3	44.4	5.4	6.2
	13.8	12.7	I	8	N	4	F	6.9	25.4	5.8	25.2
4 0	13.9	13.1	I	3	N	1	—	7.0	26.2	5.7	24.4

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No.	R.A.	Dec.	Mag.	H.	V.
3069	15	0.7	+13 43	7.5	48.3 17.6
3039	16	18.7	+14 22	5.2	48.9 17.7
3042	16	16.4	+14 10	7.7	48.8 17.6
3086	16	30.3	+14 46	6.8	49.5 17.6
3033	16	31.8	+15 4	7.8	49.6 17.5
3011	16	23.6	+15 25	7.0	49.4 17.6
3039	16	30.1	+15 48	6.5	49.5 17.6
3007	16	21.5	+15 39	7.3	49.3 17.6
2949	16	21.5	+16 4	7.7	49.3 17.7
2943	16	20.1	+16 18	7.0	49.3 17.6

3298	16	38.2	+1 17	7.0	50.6	12.5	?
3290	16	34.4	+1 27	6.5	50.6	12.5	
3215	16	14.7	+1 22	5.0	50.5	12.7	
3118	16	23.6	+2 17	4.0	50.8	12.7	
3106	16	19.6	+2 41	7.0	50.6	12.7	
~~3103~~	~~16~~	~~19.1~~	~~+2 50~~	~~7.2~~			
3103	16	19.1	+2 50	7.2	50.7	12.6	
3213	16	24.8	+3 40	8.0	50.6	12.7	
3174	16	15.1	+3 26	7.4	50.5	12.6	
3151	16	7.1	+3 2	7.5	50.5	12.6	
3235	16	33.5	+4 30	6.1	50.9	12.7	
3195	16	23.4	+4 33	7.6	50.8	12.8	
3254	16	34.4	+5 9	7.2	50.8	12.7	
3240	16	30.4	+5 35	6.8	50.8	12.7	
3165	16	6.1	+5 24	5.8	50.5	12.7	
3223	16	25.5	+5 50	5.9	50.9	12.7	
3221	16	24.5	+5 45	7.7	50.7	12.8	

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Plate 1465.

	r	H	Type	No. Lines	K	Focus	Other Lines.	V.	H.	V.	H
11 0	12.6	6.4	III	2	K=H	1	—	6.3	12.8	6.4	37.8
?	12.9	14.0	II	2	K=H	1	F? diff.	6.4	28.0	6.3	22.6
	12.6	19.8	III	1	N	1	—	6.3	39.6	6.4	11.0
	12.8	21.7	III	3	K=H	2	F	6.4	43.4	6.3	7.2
	12.4	22.1	III	1	N	1	—	6.2	44.2	6.5	6.4
	11.4	16.7	I	8	K=.2H	3	F	5.7	33.4	7.0	17.2
	11.8	24.2	III	3	K=H	2	F	5.9	48.4	6.8	2.2
	10.6	10.5	I	4	N	1	—	5.3	21.0	7.4	29.6
	10.6	21.8	I	3	N	1	—	5.3	43.6	7.4	7.0
	9.4	14.0	III	1	N	1	—	4.7	28.0	8.0	22.6
	8.3	13.1	III	2	N	1	F	4.2	26.2	8.5	24.4
	9.0	21.4	III	1	N	1	—	4.5	42.8	8.2	7.8
	7.8	6.0	III	2	N	1	F	3.9	12.0	8.8	38.6
	7.5	11.6	III	2	K=H	1	—	3.8	23.2	8.9	28.7 4
	7.4	12.1	III	2	K=H	1	—	3.7	24.2	9.0	26.4
	7.9	15.7	III	2	K=H	1	—	4.0	31.4	8.7	18.9 2
	6.1	12.9	I?	V	K=H	2	F	3.0	25.8	9.7	24.8
	6.4	15.4	III	1	N	1	—	3.2	30.8	9.5	19.8
	6.2	15.9	III	1	N	1	—	3.1	31.8	9.6	18.8
?	5.4	22.9	I	4	K=H	2	F? diff.	2.7	45.8	10.0	4.8
	4.2	12.1	I	V	K=H?	2	F	2.1	24.2	10.6	25.6 4
?	2.0	12.5	III	1	N	2	F Bright diff.	1.0	25.0	11.7	24.5 6
?	2.2	13.6	III	3	K=H	1	F, diff.	1.1	11.2	11.6	39.4

Plate 1462.

	21.4	9.7	I	3	N	1	—	10.7	19.4	7.0	53.4
	20.2	14.8	I	10	K=.2H	3	F	10.1	29.6	7.6	43.2
	20.2	21.4	I?	3	N	1	F	10.1	42.8	7.6	30.0

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No.	R.A.	Decr.	Mag.	Ht.	V.
3288	16 37.9	+6 23	6.5	50.7	12.7
3236	16 22.7	+6 18	7.0	50.7	12.7
3198	16 10.9	+6 26	7.7	50.5	12.7
3184	16 7.1	+6 16	7.0	50.5	12.7
3183	16 6.2	+6 25	8.0	50.4	12.6
3164	16 17.1	+7 17	6.0	50.5	13.0
3169	16 2.1	+6 48	6.5	50.5	12.7
3209	16 29.8	+7 23	8.0	50.8	12.7
3120	16 6.8	+7 22	7.5	50.4	12.7
3210	16 22.8	+8 4	7.3	50.8	12.8
3215	16 24.5	+8 37	7.7	50.7	12.8
3158	16 7.7	+8 14	7.0	50.5	12.7
3271	16 38.9	+8 50	5.6	50.9	12.7
3229	16 27.5	+8 59	7.5	50.7	12.8
3225	16 26.7	+9 8	8.7	50.9	12.8
3194	16 19.3	+8 51	7.7	50.7	12.8
3218	16 25.0	+9 44	6.8	50.8	12.7
3208	16 19.8	+9 37	7.0	50.6	12.8
3203	16 18.8	+9 43	6.8	50.6	12.8
2971	16 4.6	+10 5	7.0	50.4	12.8
3025	16 26.7	+10 41	7.0	50.9	12.8
3008	16 25.8	+11 49	5.2	50.8	12.8

3332	16 53.4	+6 48	7.0	62.8	17.5
3256	16 43.3	+7 31	6.0	72.9	17.6
3209	16 29.8	+7 23	8.0	72.6	17.5

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	V	H	Type	No. Lines	K	Focus	Other Lines,	V.	H.	V.	H.
	17.8	9.0	I	6	N	2	F.	8.9	18.0	8.8	54.8
?	17.6	16.9	III	2	N	2	F. Bright	8.8	33.8	8.9	39.0
	16.6	6.4	I	3	N	1	—	8.3	12.8	9.4	60.0
?	16.2	11.1	III	2	K=1.2H	4	F. Bright	8.1	22.2	9.6	50.6
	14.6	12.9	I	11	N	4	F.	7.3	25.8	10.4	47.0
	16.0	14.4	II	3	K=H	2	F.	8.0	28.8	9.7	44.0
	16.0	14.9	III	1	N	1	F.	8.0	29.8	9.7	43.0
	15.1	8.7	I	4	K=H	1	—	7.6	17.4	10.1	55.4
	15.1	10.0	III	1	N	1	—	7.6	20.0	10.1	52.8
	15.8	23.7	II	3	K=H	1	F.	7.9	47.4	9.8	25.4
	13.9	6.9	III	1	N	1	F.	7.0	13.8	10.7	59.0
	13.1	9.9	III	2	K=H	1	—	6.6	19.8	11.1	53.0
	13.8	22.9	I	3	N	2	—	6.9	45.8	10.8	27.0
?	12.5	9.3	II	2	K=H	1	Rem.	6.2	18.6	11.5	54.2
	12.1	9.4	III	1	N	1	—	6.0	18.8	11.7	54.0
	12.1	13.4	I	3	N	1	—	6.0	26.8	11.7	46.0
	11.8	23.3	III	3	K=H	2	F. Bright	5.9	46.6	11.8	26.2
	10.0	19.2	I	7	K=.2H	3	—	5.0	38.4	12.7	34.4
	9.4	7.4	I	8	K=.2H	4	F.	4.7	14.8	13.0	58.0
	9.1	15.2	III	1	N	1	F.	4.6	30.4	13.1	42.4
	8.5	15.0	I	8	K=.2H	3	—	4.2	30.0	13.5	42.8
	7.8	8.0	III	3	K=H	1	F.	3.9	16.0	13.8	56.8
	7.8	8.2	I	6	N	3	F?	3.9	16.4	13.8	56.4
	7.2	11.2	III	3	K=H	1	F.	3.6	22.4	14.1	50.4
	7.8	12.3	I	7	K=H	2	F.	3.9	24.6	13.8	48.2
	7.8	15.7	III	3	K=H	1	F.	3.9	31.4	13.8	41.4
	7.5	20.7	II	3	K=H	2	F.	3.8	41.4	13.9	31.4
?	6.8	8.4	III	2	N	1	F. Rem.	3.4	16.8	14.3	56.0

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No.	R.A.	Dec.	Mag.	H. V.		
3337	16	55.1	+8 39	6.5	73.1	17.5
3271	16	38.9	+8 50	5.6	72.7	17.6
3325	16	0.2	+9 13	8.0	13.0	17.5
3298	16	50.8	+9 36	3.0	73.0	17.7
3092 3287	16	47.1	+10 25	4.1	72.9	17.7
3287	16	44.2	+9 40	7.0	73.0	17.7
3282	16	43.1	+9 40	7.0	72.9	17.7
3126	16	53.7	+10 2	7.2	73.1	17.6
3114	16	53.1	+10 0	7.7	73.1	17.6
3218	16	25.0	+9 44	6.8	72.4	17.8
3142	16	59.4	+10 39	6.8	73.2	17.6
3085	16	53.0	+11 9	7.5	72.8	17.8
3025	16	26.7	+10 41	7.0	72.5	17.6
3092 3091	16	54.3	+11 33	7.5	72.9	17.8
3091 3092	16	54.6	+11 23	8.0	73.4	17.4
3063	16	46.2	+11 33	8.0	73.0	17.6
3008	16	25.8	+11 49	5.2	72.4	17.7
3063	16	34.1	+12 42	6.0	72.5	17.7
3142	16	58.7	+12 57	4.5	73.5	17.7
3228	16	42.3	+13 8	7.3	72.7	17.7
3233	16	42.9	+13 31	5.6	72.9	17.7
3295	16	57.3	+13 47	6.6	73.0	17.7
3292	16	57.0	+13 49	6.4		
3292	16	57.0	+13 49	6.4	73.4	17.7
3155	16	50.9	+14 7	6.5	73.3	17.7
3258	16	48.6	+13 52	6.3	73.2	17.8
3225	16	41.5	+13 51	5.9	72.9	17.7
3177	16	31.1	+13 60	6.0	72.5	17.8
3179	16	56.5	+14 20	4.8	73.3	17.7

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Plate 1462.

V	H	Type	Lines	K	Focus	Other Lines	V.	H.	V.	H.	Corrc.
6.7	10.4	III?	1	N	1	—	3.4	20.8	14.3	52.0	
6.6	11.6	III	2	K=H	1	—	3.3	23.2	14.4	49.6	
5.9	8.4	III	2	N	1	F.	3.0	16.8	14.7	56.0	
5.0	9.2	II	7	N	2	F.	2.5	18.4	15.2	54.4	
5.0	13.8	II	7	K=1.2H	2	F.	2.5	27.6	15.2	45.2	
? 5.9	21.1	III	2	K=H	1	Diff.	3.0	42.2	14.7	30.6	
4.0	13.2	II	4	N	1	—	2.0	26.4	15.7	46.4	
4.1	14.8	III?	2	K=H	1	—	2.0	29.6	15.7	43.2	
4.0	10.6	III	2	K=H	1	—	2.0	21.2	15.7	51.6	
3.4	14.2	II	4	K=H	1	—	1.7	28.4	16.0	44.4	
3.5	17.0	III	1	N	1	F.	1.8	34.0	15.9	38.8	
3.9	21.2	II	6	N	2	F.	2.0	42.4	15.7	30.4	

Plate 1365

							H.O				
22.1	18.2	III?	1	N	1	—	11.0 10.6	36.4	21.6	14.6	− 0.5
21.1	17.9	II	1	N	1	—	10.6 10.8	35.8	22.0	15.2	− 0.4
? 21.5	13.6	III?	3	K=1.5H	5	F. Bright Diff.	10.8	27.2	21.8	23.8	+ 0.2
21.0	21.4	II	3	N	1	—	10.5	42.8	22.1	8.2	− 0.9
20.1	13.2	III	1	N	1	—	10.0	26.4	22.6	24.6	+ 0.2
19.6	16.0	II?	4	K=H	1	—	9.8	32.0	22.8	19.0	− 0.2
18.4	9.3	II	3	N	1	—	9.2	18.6	23.4	32.4	+ 0.9
18.7	10.6	III	1	N	1	—	9.4	21.2	23.2	29.8	+ 0.7
18.2	19.8	III	1	N	1	—	9.1	39.6	23.5	11.4	− 0.8
17.4	7.2	II	2	K=H	1	—	8.7	14.4	23.9	36.6	+ 1.5
17.4	22.0	III	1	N	1	—	8.7	44.0	23.9	7.0	− 0.2
14.8	8.7	III	1	N	1	—	7.4	17.4	25.2	33.6	+ 1.2
14.8	12.7	II	3	N	1	—	7.4	25.4	25.2	25.6	+ 0.4
12.6	14.7	II	4	N	1	—	6.3	29.4	26.3	21.6	+ 0.0

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No.	R.A.	Dec.	Mag.	H.	V.	H'
3161	16	52.6 + 14	18	6.8	73.5	17.7
3148	16	50.0 + 14	23	6.5	73.2	17.7
3178	16	57.3 + 14	54	8.0	73.1	17.9
3095	16	55.0 + 15	9	6.2	73.4	17.7
3066	16	45.5 + 15	13	6.1	73.1	17.7
3086	16	30.3 + 14	46	6.8	72.5	17.8
3072	16	46.8 + 15	39	7.8	73.2	17.6
3058	16	43.4 + 15	39	6.8	73.0	17.6
3089	16	52.1 + 15	42	6.8	73.3	17.7
3051	16	44.6 + 16	3	7.5	73.0	17.7
3013	16	38.8 + 16	1	6.1	72.8	17.8
3029	16	30.1 + 15	48	6.5	72.5	17.8
2902	16	13.8 + 21	29	6.5	50.2	32.5 50.7
2934	16	24.0 + 21	49	2.5	57.2	32.6 57.0
2886	16	6.9 + 21	56	6.8	49.7	32.4 50.6
2983	16	25.0 + 22	31	6.5	57.4	32.5 57.2
2969	16	18.5 + 22	44	7.7	50.5	32.5 50.7
2970	16	33.5 + 23	17	7.0	52.1	32.5 51.2
2965	16	30.7 + 23	10	7.0	51.9	32.6 51.2
2916	16	10.1 + 23	29	7.0	49.7	32.6 50.5
2984	16	38.1 + 23	47	7.0	52.5	32.5 51.0
2909	16	5.5 + 23	53	6.0	49.5	32.6 50.7
3115	16	35.0 + 25	8	6.0	52.4	32.5 51.2
3094	16	26.3 + 25	9	7.7	51.7	32.6 51.3
2845	16	21.9 + 26	18	6.5	57.3	32.6 51.3

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	h	h	Type	Lines	K	Focus	Other lines.	V.	H.	V.	H.	Corrc.
	12.7	18.7	III	1	N	1	—	6.4	37.4	26.2	13.6	− 0.8
	11.0	21.2	I	4	K=H	2	—	5.5	42.4	27.1	8.6	− 1.5
?	10.8	8.5	II?	2	K=H	3	diff.	5.4	17.0	27.2	34.0	+ 1.5
	10.6	21.9	III	2	K=H	1	—	5.3	43.8	27.3	7.2	− 1.6
	10.9	22.4	III	1	N	1	—	5.4	44.8	27.2	6.2	− 1.7
	9.8	17.9	I	3	N	1	—	4.9	35.8	27.7	15.2	− 0.7
	9.2	19.2	I	3	N	1	—	4.6	38.4	28.0	12.6	− 1.0
	9.7	19.8	III	1	N	1	—	4.8	39.6	27.8	11.4	− 1.1
	7.7	7.0	III	2	K=H	1	—	3.8	14.0	28.8	37.0	+ 2.0
	6.2	9.6	I	3	N	1	—	3.1	19.2	29.5	31.8	+ 1.4
	6.6	14.4	I	4	N	1	—	3.3	28.8	29.3	22.2	+ 0.1
	6.4	19.3	I	8	K=1.2H	3	F?	3.2	98.7	29.4	12.3	− 1.1
	4.8	9.1	I	3	N	1	—	2.4	18.2	30.2	32.8	+ 1.6
	4.1	8.7	III	2	K=H	1	—	2.0	17.4	30.6	33.6	+ 1.7
	3.6	12.2	I	√	K=H	1	—	1.8	24.4	30.8	26.6	+ 0.7
?	3.0	16.9	III	3	K=H	3	F. Bright lines	1.5	32.8	31.1	17.2	− 0.6
	2.9	8.7	III	2	K=H	1	—	1.4	17.4	31.2	33.6	+ 1.9
	2.7	10.9	III	2	K=H	1	—	1.3	21.8	31.2	29.2	+ 1.2
	2.8	13.3	III	2	K=H	1	—	1.4	26.6	31.2	24.4	+ 0.5

Plate 1366.

?	22.5	13.5	III	2	K=H	2	Bright diff.	11.2	27.0	26.3	24.6	+ 0.4
	21.6	12.8	I	2	N	1	—	10.8	25.6	26.7	26.0	+ 0.5
	20.9	15.5	I	√	K=1.5H	2	—	10.4	31.0	27.1	20.6	− 0.1
?	19.1	6.6	III	3	K=2.5H	4	F. Bright diff.	9.6	13.2	27.9	38.4	+ 2.0
	19.4	8.5	I	√	K=H	1	—	9.7	17.0	27.8	34.6	+ 1.5
	18.1	11.8	II?	1	N	1	—	9.0	23.6	28.5	28.0	+ 0.8
	18.0	13.1	I	8	K=1.2H	3	F.	9.0	26.2	28.5	25.4	+ 0.4

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No.	R.A.	Decl.	Mag.	H.	V.	H'
2817	16	12.4 +26 15	6.5	49.6	32.6	50.4
2603	16	6.8 +27 3	6.5	49.2	32.5	50.7
2668	16	35.8 +27 12	6.0	52.8	32.6	51.3
2597	16	5.2 +27 17	7.3	49.0	32.6	50.6
2595	16	4.1 +27 8	6.7	48.9	32.5	50.6
2623	16	14.3 +27 41	7.5	50.1	32.6	50.8
2575	16	11.4 +28 0	7.7	49.8	32.6	50.8
2613	16	9.9 +27 48	6.5	49.5	32.6	50.6
2607	16	39.3 +28 38	7.2	53.3	32.4	50.3
2864	16	33.7 +29 30	7.3	52.9	32.6	51.5
2834	16	22.8 +29 24	6.8	51.6	32.7	51.5
2803	16	10.9 +29 31	5.7	49.6	32.7	50.7
2858	16	34.8 +30 8	8.1	53.0	32.5	51.4
2861	16	35.7 +30 33	7.5	53.1	32.6	51.4
2834	16	27.8 +30 49	6.9	52.2	32.6	51.5
2845	16	16.5 +31 14	5.1	50.3	32.7	50.9
3886	16	36.0 +31 9	7.4	53.4	32.6	51.5
3873	16	30.8 +31 15	7.2	52.6	32.6	51.4
2859	16	25.3 +31 16	7.5	51.9	32.7	51.4
3034	17	24.9 +26 14	5.0	51.9	37.4	51.6
3038	17	26.6 +26 33	7.0	52.2	37.4	51.7
2809	17	20.2 +27 0	6.5	51.2	37.4	51.3
2888	17	40.8 +27 48	3.5	54.0	37.4	52.0
2870	17	36.3 +27 42	7.1	53.3	37.4	51.8
2779	17	28.8 +28 19	7.8	52.4	37.3	51.6
2767	17	26.1 +28 30	5.7	52.3	37.5	51.9

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r	H	Type	No. Lines	K	Focus	Other Lines.	V.	H.	V.	H. corrc.
18.9	14.2	III	1	N	1	—	9.4	28.4	28.1	23.2 + 0.1
18.5	18.4	I	5	K=.5H	1	—	9.2	36.8	28.3	14.8 - 0.8
17.4	17.4	III	2	K=H	1	—	8.7	34.8	28.8	16.8 - 0.5
? 17.1	18.6	III	3	K=H	2	F. diff.	8.6	37.2	28.9	14.4 - 0.9
15.8	8.4	I	6	K=H	1	F?	7.9 8.6	16.8	29.6	34.8 + 1.8
15.8	15.3	III	2	K=H	1	—	7.9	30.6	29.6	21.0 - 0.1
14.2	9.8	III	2	K=H	1	—	7.9	19.6	30.4	42.0 + 1.5
14.1	13.1	III	2	K=H	1	—	7.0	26.2	30.5	35.4 + 0.5
14.2	14.6	III	2	K=H	1	—	7.0	29.2	30.4	32.4 + 0.0
13.3	11.0	I	6	K=.2H	3	—	7.1 6.6	22.0	30.9	29.6 + 0.8
12.2	9.3	III	1	N	1	—	6.6	18.6	29.4	33.0 + 0.2
12.4	9.6	III	1	N	1	—	6.2	19.2	31.3	32.4 + 1.5
? 12.6	13.5	III	2	K=H	2	diff.	6.2	27.0	31.2	24.6 + 0.4
12.5	15.1	III	1	N	1	—	6.8	30.8	31.3	21.4 - 0.0
12.3	17.4	III	2	K=H	1	—	6.2	34.8	31.3	16.8 - 0.7
11.7	7.1	I	6	N	3	—	6.2 5.8	14.2	31.7	37.4 + 2.4
11.7	19.0	I	4	N	2	—	5.8	38.0	31.7	13.6 - 1.2
10.9	12.6	III	1	N	1	—	5.8	25.2	32.1	26.4 + 0.8
9.3	10.1	III	1	N	1	—	5.4 4.6	20.2	32.9	31.4 + 1.5
9.5	15.9	III	2	K=H	1	—	4.6	31.8	32.7	19.8 - 0.3
9.4	17.5	I	6	K=.5H	1	—	4.8	35.0	32.8	16.6 - 0.8
? 9.9	17.6	III	2	K=H	3	diff.	5.0	35.2	32.5	16.4 - 0.9
8.4	7.8	I	5	N	2	—	4.2	15.6	33.3	36.0 + 2.5
8.8	8.2	I	3	N	1	—	4.4	16.4	33.1	35.2 + 2.3
? 8.7	19.0	I	10	?	4	F, diff.	4.4	38.0	33.1	13.6 - 1.2
7.9	22.2	III	2	K=H	1	—	4.0	44.4	33.5	7.2 - 2.5
? 8.0	22.5	III	1	N	1	diff.	4.0	45.0	33.5	6.6 - 2.5
6.1	6.4	I	5	N	2	—	3.0	12.8	34.5	38.8 + 3.1

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No.	R.A.	Dec.	Mag.	H.	V.	H'	
2822	17	23.5 + 27 60	7.9	51.9	37.4	51.8	?
2722	17	13.7 + 28 10	7.1	50.5	37.4	51.3	
2728	17	15.9 + 28 54	6.5	50.7	37.6	51.2	
2719	17	13.1 + 28 58	5.8	50.3	37.6	51.2	
3091	17	37.0 + 29 30	6.5	53.8	37.4	52.0	
3012	17	20.6 + 29 36	7.2	51.2	37.5	51.3	
3039	17	33.7 + 30 19	7.5	53.3	37.4	51.8	
3013	17	26.1 + 30 26	7.1	52.3	37.4	51.8	
2998	17	22.8 + 30 22	8.1	52.0	37.5	52.0	??
3033	17	31.1 + 30 53	6.0	53.1	37.5	52.0	
3076	17	35.2 + 31 24	7.0	53.8	37.5	52.2	
~~3075~~	~~17~~	~~34.5 + 30 17~~	~~6.5~~				
~~3071~~ 3075	17	34.5 + 31 17	6.5	53.7	37.5	52.2	
3047	17	25.4 + 31 17	5.8	52.4	37.6	52.0	
3026	17	21.3 + 31 24	6.8	51.5	37.6	51.5	
3004	17	15.8 + 31 24	7.5	50.6	37.6	51.3	
3090	17	40.2 + 31 34	6.5	54.4	37.4	52.0	
2993	17	12.0 + 31 40	7.5	50.0	37.5	51.2	?
2941	17	27.6 + 32 4	8.6	52.8	37.5	52.1	??
2964	17	33.5 + 32 49	7.0	53.7	37.4	52.2	
2911	17	19.4 + 32 48	7.0	51.2	37.6	51.5	
2898	17	15.4 + 32 50	7.0	50.4	37.5	51.2	
2896	17	15.3 + 32 40	5.7	50.5	37.7	51.4	
2944	17	39.0 + 33 18	6.5	54.6	37.5	52.1	
2942	17	37.9 + 33 3	7.0	54.3	37.4	52.0	
2864	17	12.0 + 33 15	5.0	50.0	37.6	51.2	
2840	17	4.3 + 33 33	7.2	48.7	37.6	51.1	
2835	17	3.5 + 33 30	7.5	48.5	37.5	51.0	
3050	17	42.6 + 34 20	6.5	55.4	37.3	52.3	

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x	H	Type	Lines	K	Focus	Other lines.	V.	H.	V.	H.	Corrc.
6.4	13.0	III	3	K=H	1	F.	3.2	26.0	343	25.6	+ 0.7
6.9	15.4	I	3	N	1	—	3.4	30.8	341	20.8	- 0.1
6.5	16.7	I	4	N	1	—	3.2	33.4	343	18.2	- 0.7
5.4	11.8	I	v	K=H	1	—	2.7	23.6	348	28.0	+ 1.0
5.6	15.0	I	8	K=1.2H	3	—	2.8	30.0	347	21.6	± 0.0
4.1	17.6	I	4	K=H	1	—	2.0	35.2	355	16.4	- 1.0
2.4	6.6	III	2	K=H	1	—	1.2	13.2	363	38.4	+ 3.4
2.8	22.6	I	v	?	2	—	1.4	45.2	361	6.4	- 3.0

Plate 1372.

22.8	13.9	I	v	?	2	—	11.4	27.8	16.2	44.0	+ 0.1
21.3	9.1	I	4	N	2	—	10.6	18.2	17.0	53.6	+ 0.6
21.9	11.4	I	v	K=H	1	—	10.9	22.8	16.6	49.0	+ 0.4
21.4	14.4	I	v	N	1	—	10.7	28.8	16.9	43.0	+ 0.0
20.2	15.0	I	v	N	1	—	10.1	30.0	17.5	41.8	± 0.0
? 20.1	21.2	I	6	N	3	Reen.	10.0	42.4	17.6	29.4	- 0.6
20.5	22.6	I	4	K=H	1	—	10.2	45.2	17.4	26.6	- 0.7
19.0	9.7	I	6	K=H	1	—	9.5	19.4	18.1	52.4	+ 0.6
19.2	10.1	I	v	N	1	—	9.6	20.2	18.0	51.6	+ 0.5
19.4	20.8	II	2	K=H	1	—	9.7	41.6	17.9	30.2	- 0.6
? 18.6	13.1	II	2	K=H	2	Reen.	9.3	26.2	18.3	45.6	+ 0.2
18.6	13.8	III	1	N	1	—	9.3	27.6	18.3	44.2	+ 0.1
? 17.8	11.8	III	2	K=H	3	Bright Reen	8.9	23.6	18.7	48.2	+ 0.4
17.9	15.0	II	2	K=H	1	—	9.0	30.0	18.6	41.8	± 0.0
17.2	18.1	III	1	N	1	—	8.6	36.2	19.0	35.6	- 0.4
16.5	8.7	II	1	N	1	—	8.2	17.4	19.4	54.4	+ 0.7
15.5	7.4	I	7	N	3	—	7.8	14.8	19.8	57.0	+ 0.9
15.4	7.8	III	2	K=H	1	—	7.7	15.6	19.9	56.2	+ 0.8

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No.	R.A.	Decl.	Mag.	H.	V.	H'	
2989	17	26.8	+34 23	6.5	52.8	37.6	52.1
2967	17	20.6	+34 8	7.8	51.4	37.5	51.5
2956	17	17.5	+34 19	7.9	50.9	37.5	51.6
2996	17	29.6	+34 50	7.0	53.2	37.6	52.1
2971	17	21.6	+34 50	6.1	51.6	37.7	51.6
2955	17	15.3	+35 31	7.7	50.5	37.5	51.5
2939	17	42.8	+36 4	7.2	56.0	37.3	52.6
2827	17	2.9	+36 8	5.5	48.1	37.5	51.1
2918	16	44.0	+15 35	Var.	71.8	27.0	71.7
3083	16	54.5	+16 49	7.2	72.7	27.4	72.1
3069	16	49.9	+16 32	7.2	72.7	27.5	72.3
3039	16	43.6	+16 46	7.7	72.4	27.5	72.4
3093	16	41.9	+17 24	6.8	71.9	27.5	71.9
3053	16	28.8	+17 21	6.2	71.2	27.4	71.8
3045	16	26.0	+17 9	7.6	71.2	27.4	71.9
3280	16	53.4	+18 1	7.0	72.8	27.5	72.2
3136	16	52.6	+17 55	7.2	72.8	27.5	72.3
3057	16	29.7	+17 47	7.6	71.3	27.5	71.9
3261	16	46.3	+18 19	6.5	72.5	27.6	72.3
3256	16	44.7	+18 19	7.0	72.3	27.6	72.2
3266	16	49.0	+18 41	4.8	72.6	27.6	72.2
3244	16	42.3	+18 34	7.0	72.3	27.6	72.3
3146	16	35.2	+19 13	7.0	71.4	27.8	71.8
3215	16	55.7	+19 16	8.0	73.1	27.5	72.4
3218	16	57.6	+19 54	6.2	72.4	27.7	71.5
3386	16	57.6	+20 1	8.6	73.2	27.7	72.4

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	V	H	Type	No. Lines	K	Focus	Other lines.	V.	H.	V.	H.	Corrc.
	15.9	8.4	I	5	N	2	—	8.0	16.8	19.6	55.0	+ 0.7
	15.3	16.1	II	2	K=H	1	—	7.6	32.2	20.0	39.6	- 0.1
	14.2	15.2	III	1	N	1	—	7.1	30.4	20.5	41.4	- 0.0
	13.6	13.5	III	1	N	1	—	6.8	27.0	26.8	44.8	+ 0.2
?	13.1	17.1	II	2	K=H	2	diff.	6.6	34.2	21.0	37.6	- 0.3
	13.1	17.2	II	2	K=H	1	—	6.6	34.4	21.0	37.4	- 0.3
?	13.4	23.2	III	2	K=H	3	diff.	6.7	46.4	20.9	25.4	- 1.1
	12.9	12.0	III	2	K=H	3	Bright, diff.	6.4	24.0	21.2	47.8	+ 0.4
	12.4	12.5	III	1	N	1	—	6.2	25.0	21.4	46.8	+ 0.4
	12.9	20.5	I	3	N	1	—	6.4	41.0	21.2	30.8	- 0.8
	11.8	7.1	III	2	K=H	1	—	5.9	14.2	21.7	57.6	+ 1.1
	11.6	8.2	III	1	N	1	—	5.8	16.4	21.8	55.4	+ 1.0
	11.8	9.1	I	4	K=H	1	—	5.9	18.2	21.7	53.6	+ 0.8
	11.7	11.7	II	2	K=H	1	—	5.8	23.4	21.8	48.4	+ 0.5
	11.5	17.6	I	6	K=.2H	2	—	5.8	35.2	21.8	36.6	- 0.4
	11.1	19.2	III	1	N	1	—	5.6	38.4	22.0	33.4	- 0.6
	11.9	22.1	I	4	K=H	1	—	6.0	44.2	21.6	27.6	- 1.0
?	11.5	23.2	II?	2	K=2.5H	5	F, diff.	5.8	46.4	21.8	25.4	- 0.5
?	10.6	6.7	III	2	K=H	3	Bright, diff.	5.3	13.4	22.3	58.4	+ 1.5
	10.5	11.3	I	2	N	1	—	5.2	22.6	22.4	49.2	+ 0.5
	10.7	18.3	II	2	K=H	1	—	5.4	36.6	22.2	35.2	- 0.5
	10.6	19.0	III	2	K=H	1	—	5.3	38.0	22.3	33.8	- 0.6
	10.1	19.0	III	1	N	1	—	5.0	38.0	22.6	33.8	- 0.6
	10.9	21.1	III	1	N	1	—	5.4	42.2	22.2	29.6	- 0.9
?	10.0	22.7	III	1	N	2	Bright, diff.	5.0	45.4	22.6	26.4	- 1.4
?	9.5	9.1	III	2	K=H.	2	Bright, diff.	4.8	18.2	22.8	53.6	+ 0.9
	9.2	12.7	III	1	N	1	—	4.6	25.4	23.0	46.4	+ 0.3
	9.7	18.0	III	2	K=H.	1	—	4.8	36.0	22.8	35.8	- 0.5

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No.	R.A.	Dec.	Mag.	H.	V.	H'	
3217	16	56.2	+19 37	7.0	73.0	27.6	72.3
3154	16	39.6	+19 55	8.0	71.8	27.5	71.9
3332	16	41.5	+20 28	7.7	71.9	27.6	71.9
3342	16	45.5	+20 49	6.8	72.5	27.6	72.3
3324	16	37.3	+20 58	8.3	71.5	27.6	71.8
~~3323~~	~~16~~	~~37.2~~	~~+20 60~~	~~7.3~~			?
3324	16	37.2	+20 60	7.3	71.6	27.6	71.9 ?
3283	16	24.3	+20 48	6.0	70.7	27.5	71.8
3002	16	48.7	+21 13	6.0	72.7	27.6	72.3
2999	16	47.5	+21 26	8.0	72.5	27.6	72.1
2949	16	30.0	+21 3	8.3	71.0	27.4	71.8
3045	16	59.3	+21 41	8.0	73.5	27.6	72.4
3031	16	56.9	+21 47	7.5	73.3	27.6	72.3
3022	16	54.9	+21 43	7.3	73.1	27.6	72.3
3005	16	49.1	+21 44	7.8	72.5	27.5	72.0
2970	16	36.2	+21 51	7.3	71.4	27.6	71.8
2955	16	32.8	+21 58	7.7	71.2	27.6	71.8
2940	16	26.4	+21 35	8.5	70.6	27.6	71.6
2934	16	24.0	+21 49	2.5	70.4	27.6	70.9
3073	17	0.2	+22 17	6.0	13.6	27.6	12.1
~~2921~~	~~16~~	~~59.4~~	~~+22 19~~	~~7.0~~			
3035	16	50.2	+22 21	7.8	72.8	27.6	72.3
3002	16	34.8	+22 13	7.8	71.4	27.6	71.9
~~2999~~ 3000	16	33.2	+22 17	7.2	71.2	27.6	71.8
2999	16	33.1	+22 31	7.7	71.1	27.5	71.7
2990	16	28.6	+22 3	8.2	70.8	27.4	71.7
2983	16	25.0	+22 31	6.5	70.4	27.5	71.8
3045	16	54.8	+22 57	5.8	73.0	27.6	72.1
3033	16	47.2	+22 58	8.3	72.6	27.6	72.3
3004	16	35.1	+22 44	7.3	71.1	27.5	71.6

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Plate 1372.

	V.	H	Type	No. lines	K	Focus	Other lines,	V.	H.	V.	H	Correc.
	9.0	18.2	III?	1	N	1	—	4.5	36.4	23.1	35.4	- 0.5
?	9.5	19.8	III?	1	N	1	neb.	4.8	39.6	22.8	32.2	- 0.7
	8.1	6.8	III	1	N	1	—	4.0	13.6	23.6	58.2	+ 1.5
	8.6	18.8	I?	6	K=H	2	—	4.3	37.6	23.3	34.2	- 0.7
	8.8	20.1	III	2	K=H	1	—	4.4	40.2	23.2	31.6	- 0.8
	8.6	23.7	III	1	N	1	—	4.3	47.4	23.3	24.4	- 1.7
	7.3	16.3	III	2	K=H	1	—	3.6	32.6	24.0	39.2	- 0.3
?	7.8	16.7	III?	2	K=H	2	neb.	3.9	33.4	23.7	38.4	- 0.4
	6.1	10.6	III	2	K=H	2	—	3.0	21.2	24.6	50.6	+ 0.8
	5.9	9.3	I	4	K=H	1	—	3.0	18.6	24.6	53.2	+ 1.0
?	5.6	13.4	III	2	K=H	3	Bright neb.	2.8	26.8	24.8	45.0	+ 0.3
?	5.0	18.1	III	2	K=H	1	Bright neb.	2.5	36.2	25.1	35.6	- 0.6
	5.2	18.9	III	1	N	1	—	2.6	37.8	25.0	34.0	- 0.7
	5.9	20.5	III	1	N	1	—	3.0	41.0	24.6	30.8	- 1.0
	4.1	10.7	III	2	K=H	2	—	2.0	21.4	25.6	50.4	+ 0.9
	4.0	13.3	I	5	K=H	2	—	2.0	26.6	25.6	45.2	+ 0.3
	4.8	22.0	I	5	N	1	—	2.4	44.0	25.2	27.8	- 0.5
?	3.8	8.5	III	2	K=H	2	neb.	1.9	17.0	25.7	54.8	+ 1.3
?	3.4	11.8	III	2	K=H	2	neb.	1.7	23.6	25.9	48.2	+ 0.6
	2.4	14.0	III	1	N	1	—	1.2	28.0	26.4	43.8	+ 0.3
	2.4	23.9	I	4	?	2	—	1.2	47.8	26.4	24.0	- 2.0

Plate 1474.

22.1	11.2	I	5	?	3	F?	11.0	22.4	1.5	69.1
22.0	23.7	I	5	?	3	F	11.0	47.4	1.5	44.1
21.0	10.7	III	2	K=H,	1	—	10.5	21.4	2.0	70.1
20.2	11.4	I	6	K=2H	2	F	10.1	22.8	2.4	68.7
18.4	10.4	III	2	K=H	1	—	9.2	20.8	3.3	70.7

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No.	R.A.	Dec.	Mag.	H.	V.	H'
2973	16	34.8	+23 2	8.2	71.2	27.5 71.7
~~2998~~	~~16~~	~~34.8~~	~~+22 13~~	~~7.8~~		
2998	16	31.5	+22 44	8.0	71.1	27.5 71.8
3050	16	60.0	+23 31	7.7	13.6	27.5 12.1
2970	16	33.5	+23 17	7.0	71.1	27.6 71.8
2965	16	30.7	+23 10	7.0	70.9	27.6 71.7
2938	16	22.8	+23 13	8.0	70.2	27.5 71.9
2990	16	39.0	+23 60	7.3	71.6	27.6 71.9
2984	16	38.1	+23 47	7.0	71.5	27.7 71.9
3095	16	51.7	+24 37	6.5	72.9	27.6 72.1
3104	16	54.7	+24 38	8.0	73.3	27.6 72.3
3069	16	45.7	+24 55	5.3	72.5	27.7 72.2
3115	16	35.0	+25 8	6.0	71.2	27.6 71.8
3038	16	33.1	+24 59	7.4	70.9	27.6 71.6
3031	16	29.6	+24 37	8.0	70.6	27.6 71.6
3166	16	57.6	+25 35	6.3	73.0	27.6 72.1
3150	16	45.8	+25 39	7.1	72.4	27.6 72.1
3094	16	26.3	+25 9	7.7	70.3	27.6 71.8
3183	16	56.4	+25 44	6.0	73.4	27.6 72.1
3156	16	49.1	+25 39	6.3	72.7	27.7 72.1
2907	16	44.1	+26 28	7.0	72.1	27.7 71.8
2845	16	21.9	+26 18	6.5	69.7	27.5 71.7
3408	17	9.2	+1 23	5.5	31.6	12.4
3323	16	44.1	+1 28	6.0	91.5	12.5
3411	17	10.3	+1 53	6.8	31.7	12.4
3283	17	8.9	+2 21	6.5	31.7	12.5
3379	17	10.8	+3 18	7.0	31.6	12.5

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Plate 1474.

	V	H	Type	No. Lines	K	Focus	Other Lines.	V.	H.	V.	H.
	17.6	16.6	I	3	N	1	—	8.8	33.2	3.7	58.3
?	16.5	6.2	III	2	K=H	3	F.? Bright lines	8.2	12.4	4.3	79.1
	15.4	13.7	III	2	K=H	1	—	7.7	27.4	4.8	64.1
?	15.8	15.1	III	2	K=H	1	lines.	7.9	30.2	4.6	61.3
	14.6	8.4	III	3	K=H	1	F.	7.3	16.8	5.2	74.7
	14.3	11.2	III	1	N	1	—	7.2	22.4	5.3	69.1
	13.5	23.7	I	3	N	1	—	6.8	47.4	5.7	44.1
	12.6	10.0	I	V	K=H	2	F.	6.3	20.0	6.2	71.5
	11.9	11.6	III	2	K=H	1	—	6.0	23.2	6.5	68.3
	11.6	19.0	I	V	K=.5H	3	—	5.8	38.0	6.7	58.5
	10.1	24.0	I	6	N	4	—	5.0	48.0	7.5	43.5
?	9.5	6.3	III	1	?	2	lines.	4.8	12.6	7.7	78.5
	9.2	12.9	I	V	K=H	2	—	4.6	25.8	7.9	65.7
?	9.0	13.5	III	3	K=H	2	F. lines.	4.5	27.0	8.0	64.5
	9.0	16.2	I	V	K=H	1	—	4.5	32.4	8.0	59.1
	9.4	18.2	III	2	K=H	1	—	4.7	36.4	7.8	55.1
	9.9	18.6	III	1	N	1	—	5.0	37.2	7.5	54.3
	10.1	18.2	III	1	N	1	—	5.0	36.4	7.5	55.1
	8.8	9.4	III	1	N	1	—	4.4	18.8	8.1	72.7
	7.1	7.4	III	2	K=H	1	—	3.6	14.8	8.9	76.7
	7.9	18.2	I	7	K=.2H	3	—	4.0	36.4	8.5	55.1
	6.8	15.7	I	V	N	1	—	3.4	31.4	9.1	60.1
	5.9	7.7	I	V	K=H?	1	—	3.0	15.4	9.5	76.1
	5.4	16.1	III	2	K=H	1	—	2.7	32.2	9.8	59.3
	5.1	17.9	I	V	K=H?	1	—	2.6	35.8	9.9	55.7
?	5.1	19.2	II?	2	K=H	1	lines.	2.6	38.4	9.9	53.1
?	6.1	20.3	III	2	K=1.2H	4	Bright lines.	3.0	40.6	9.5	50.9
	5.9	23.6	III	3	K=H	1	F.	3.0	47.2	9.5	44.3

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No.	R.a.	Decr.	Mag.	M.	V.	
3338	16	58.2	+3 38	7.3	91.4	12.4
3422	17	19.3	+4 16	4.0	31.7	12.5
3349	16	4.2	+4 52	7.1	31.6	12.6
3336	17	1.2	+4 36	7.0	31.4	12.5
3378	17	14.9	+5 10	6.8	31.7	12.5
3360	17	9.4	+5 18	8.0	31.8	12.5
3282	16	43.9	+5 44	7.8	31.3	12.5
3386	17	11.8	+6 15	7.0	31.8	12.5
3378	17	8.6	+6 34	8.0	31.9	12.6
3332	16	53.4	+6 48	7.0	31.4	12.6
3256	16	43.3	+7 31	6.0	91.3	12.5
3368	17	19.3	+7 44	6.5	31.9	12.5
3321	17	6.0	+7 55	7.3	31.8	12.5
3367	17	4.8	+8 5	6.2	31.8	12.6
3346	16	59.0	+8 4	7.7	91.4	12.6
3287	16	55.0	+7 53	8.5	91.4	12.6
3287	16	54.3	+7 39	7.2	91.5	12.6
3292	16	55.1	+7 25	8.5	91.5	12.4
3390	17	13.0	+8 7	8.0	31.8	12.5
3404	17	17.0	+8 46	7.5	31.8	12.4
3337	16	55.0	+8 39	6.5	91.4	12.6
3325	17	0.2	+9 13	8.0	31.6	12.6
3378	17	16.4	+9 37	7.5	31.8	12.6
3322	16	59.3	+9 57	6.8	91.5	12.7
3128	16	55.7	+10 2	7.2	91.5	12.6
3114	16	53.1	+10 0	7.7	91.5	12.6
3298	16	50.8	+9 36	3.0	91.4	12.6
3287	16	44.2	+9 40	7.0	91.4	12.7

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Plate 1474.

V	H	Type	No. Lines	K	Focus	Other Lines	V.	H.	V.	H.
4.7	14.5	III	2	K=H	1	—	2.4	29.0	10.1	6.25
4.5	22.1	I	9	N	5	F.	2.2	44.2	10.3	47.3
? 3.1	10.1	III	1	N	2	F. Bright plate.	1.6	20.2	10.9	71.3
3.7	13.1	III	1	N	1	—	1.8	26.2	10.7	65.3
3.9	16.1	III	2	K=H	1	—	2.0	32.2	10.5	59.3
3.1	19.0	III	1	N	1	—	1.6	38.0	10.9	53.5
2.0 2.4	9.7	I?	4	K=H	1	—	1.2	19.4	11.3	72.1

Plate 1381.

22.4	8.6	I	4	N	1	—	
? 23.0	8.9	III?	1	N	2	diff.	
22.4	17.2	I	4	N	1	—	
? 22.0	17.4	III?	2	K=H	1	diff.	
21.4	7.3	I	4	N	2	—	
20.8	11.1	III	3	K=H	1	F.	
20.0	12.8	I	7	K=.2H	3	F.	
? 20.5	14.6	III	2	K=H	1	diff.	
19.1	14.4	III	2	K=H	1	—	
19.4	15.3	I	11.	K=.2H	5	F.	
18.1	9.6	I	3	N	1	—	
18.6	9.7	III	3	K=H	1	F.	
18.2	22.9	I	7	N	3	F.	
18.8	23.2	III	3	K=H	1	F.	
17.1	9.6	I	4	K=H	1	—	
? 17.8	16.0	III	2	K=H	2	Bright plate.	
17.7	16.1	I	8	K=.2H	4	F.	
? 17.1	19.1	III?	2	K=H	2	diff.	
17.6	20.2	I?	6	K=H	3	—	

Also plate 1381 is measured on Page 206.

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No.	R.A	Decl.	Mag.	H.	V.		
3153	17	2.8	+10	14	7.5	31.8	12.6
3092	16	47.1	+10	25	4.1	91.3	12.6
3156	17	11.8	+11	2	5.0	32.0	12.6
3165	17	5.6	+10	47	5.8	31.8	12.6
3142	16	59.4	+10	39	6.8	91.6	12.6
3086	16	53.4	+11	3	7.6	91.4	12.6
3157	17	12.5	+11	20	7.3	31.9	12.5

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Plate No 18.

	Y	X	Type	No. Lines	K	Focus	Other lines.	V.	H.	V.	H
12	0	22.1	8.2	II	2	K=H.	1	—	11.0	16.4	1.7	73.8
		22.5	10.6	I	6	N	2	—	11.2	21.2	1.5	69.0
		22.4	23.0	I	5	?	2	F?	11.2	46.0	1.5	44.2
		21.4	10.0	II	2	K=H	1	—	10.7	20.0	2.0	70.2
		20.6	10.7	I	6	N	2	F?	10.3	21.4	2.4	69.8
		18.7	9.7	II	3	K=H.	1	F.	9.4	19.4	3.3	70.8
	?	18.1	16.0	II	2	K=H	1	diff.	9.0	32.0	3.7	58.2
		17.4	16.2	III	1	N	1	—	8.7	32.4	4.0	57.8
		16.2	14.5	III	2	K=H	1	—	8.1	29.0	4.6	61.2
		15.1	7.7	III	2	N	1	F.	7.6	15.4	5.1	74.8
		15.7	13.1	III	3	K=H	2	F	7.8	26.2	4.9	64.0
		14.8	10.5	II	2	K=H	1	—	7.4	21.0	5.3	69.2
		14.1	13.7	III	1	N	1	—	7.0	27.4	5.7	62.8
	?	13.0	9.3	II?	3	K=H	2	F, diff	6.5	18.6	6.2	71.6
		13.8	23.1	I	4	K=.5H	1	—	6.9	46.2	5.8	44.0
		13.9	23.8	III	1	N	1	—	7.0	47.6	5.7	42.6
		12.4	10.9	I	4	K=H	1	—	6.2	21.8	6.5	68.4
		12.0	18.3	I	7	K=.2H	2	F.	6.0	36.6	6.7	53.6
		12.6	19.9	III	1	N	1	—	6.3	39.8	6.4	50.4
		10.5	17.5	III	1	N	1	—	5.2	35.0	7.5	55.2
		10.3	17.9	III	1	N	1	—	5.2	35.8	7.5	54.4
		10.5	19.4	III	2	K=H	1	—	5.2	38.8	7.5	51.4
		10.5	23.3	I	6	?	3	—	5.2	46.6	7.5	43.6
		9.2	8.7	II	2	K=H	1	—	4.6	17.4	8.1	72.8
	?	9.7	12.2	II	2	K=H	2	diff.	4.8	24.4	7.9	65.8
		9.4	12.8	III	1	N	1	—	4.7	25.6	8.0	64.6
		9.4	15.6	I	5	K=H	1	F.	4.7	31.2	8.0	59.0
		9.8	17.6	II	2	K=H	1	—	4.9	35.2	7.8	55.0

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No.	R.A.	Dec.	Mag.	H.	V.
3421	17	13.8	+1 35	7.2	30.2	12.6
3407	17	9.2	+1 23	5.5	30.4	12.6
3323	16	44.1	+1 28	6.0	30.1	12.7
3411	17	10.3	+1 55	6.8	30.3	12.6
3283	17	8.9	+2 21	6.5	30.3	12.7
3379	17	10.8	+3 18	7.0	30.2	12.7
3338	16	58.2	+3 38	7.3	30.2	12.6
3335	16	57.7	+3 59	8.1	90.1	12.7
3336	17	1.2	+4 36	7.0	30.2	12.7
3378	17	14.9	+5 10	6.8	30.3	12.8
3349	17	4.2	+4 52	7.1	30.4	12.7
3360	17	9.4	+5 18	8.0	30.4	12.7
3339	17	3.0	+5 34	8.0	30.4	12.6
3386	17	11.8	+6 15	7.0	30.4	12.8
3282	16	43.9	+5 44	7.8	90.1	12.6
3276	16	42.4	+5 38	8.2	90.0	12.6
3378	17	8.7	+6 34	8.0	30.5	12.8
3332	16	53.4	+6 48	7.0	90.0	12.8
3322	16	50.3	+6 27	7.0	90.1	12.7
3292	16	55.1	+7 25	8.5	90.1	12.6
3287	16	54.3	+7 39	7.2	90.1	12.8
3278	16	51.1	+7 21	9.0	89.9	12.6
3256	16	43.3	+7 31	6.0	89.9	12.7
3391	17	13.0	+8 7	8.0	30.4	12.7
3321	17	6.0	+7 55	7.3	30.4	12.7
3367	17	4.8	+8 5	6.2	30.4	12.8
3346	16	59.0	+8 4	7.7	90.2	12.8
3291	16	55.0	+7 53	8.5	90.2	12.8

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Plate IV 18.1

	r	H	Type	No. Lines	K	Focus	Other Lines.	V.	H.	V.	H.
	8.3	17.5	I	6	K=.2H	3	—	4.2	35.0	8.5	55.2
	7.5	6.8	III	3	K=H	2	F.	3.8	13.6	8.9	76.6
	7.4	6.1	III	1	N	1	—	3.7	12.2	9.0	78.0
	7.1	15.0	I	4	N	2	—	3.6	30.0	9.1	60.2
	6.2	7.1	I	4	K=H	1	—	3.1	14.2	9.6	76.0
?	6.6	19.6	III	2	K=1.2H	4	F? Bright perc	3.3	39.2	9.4	51.0
	6.2	22.9	II	2	K=H	1	—	3.1	45.8	9.6	44.4
	6.2	23.4	III	1	N	1	—	3.1	46.8	9.6	43.4
	5.1	13.8	II	2	K=H	1	—	2.6	27.6	10.1	62.6
	5.8	15.5	III	2	K=H	1	—	2.9	31.0	9.8	59.2
	5.6	17.2	I	3	N	1	—	2.8	34.4	9.8 9	55.8
	5.6	18.5	I	V	N	1	—	2.8	37.0	9.9	53.2
?	4.1	12.5	III	1	N	1	F? perc	2.0	25.0	10.7	65.2
	4.4	15.4	III	2	K=H	1	—	2.2	30.8	10.5	59.4
	4.9	21.4	I	9	N	V	F.	2.4	42.8	10.3	47.4
?	3.6	9.4	III	2	K=H	2	Bright perc	1.8	18.8	10. 9.9	71.4

Plate 1381

	22.4	8.6	I	4	N	1	—	11.2	17.2	11.5	72.2
?	23.0	8.9	III?	1	N	2	perc	11.5	17.8	11.2	71.6
	22.4	17.2	I	4	N	1	—	11.2	34.4	11.5	55.0
?	22.0	17.4	III?	2	K=H	1	perc	11.0	34.8	11.7	54.6
	21.4	7.3	I	4	N	2	—	10.7	14.6	12.0	74.8
	20.8	11.1	III	3	K=H	1	F.	10.4	22.2	12.3	67.2
	20.0	12.8	I	7	K=.2H	3	F?	10.0	25.6	12.7	63.8
?	20.5	14.6	III	2	K=H	1	perc	10.2	29.2	12.5	60.2
	19.1	14.4	III	2	K=H	1	—	9.6	28.8	13.1	60.6
	19.4	15.3	I	11	K=.2H	5	F.	9.7	30.6	13.0	58.8

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No.	R.A.	Dec.	Mag.	H.	V.
3337	16	55.1	+8 39	6.5	90.1	12.8
3405	17	17.0	+8 60	6.2	30.6	12.8
3388	17	18.4	+9 3	7.4	30.6	12.7
3325	17	0.2	+9 13	8.0	30.2	12.8
3378	17	16.1	+9 31	7.9	30.3	12.6
3298	16	50.8	+9 36	3.0	90.0	12.9
3287	16	44.2	+9 40	7.0	90.0	12.8
3282	16	43.0	+9 40	7.0	89.8	12.8
3153	17	2.8	+10 14	7.5	30.4	12.8
3322	16	59.3	+9 57	6.8	90.3	12.9
3126	16	55.7	+10 2	7.2	90.1	12.8
3114	16	53.1	+10 1	7.7	90.1	12.8
3165	17	5.6	+10 47	5.8	30.6	12.8
3142	16	59.4	+10 39	6.8	90.2	12.8
3092	16	47.1	+10 25	4.1	89.9	12.8
3156	17	11.8	+11 2	5.0	29.6	12.8

3157	17	12.5	+11 20	7.3	29.7	22.5
3156	17	11.8	+11 2	5.0	29.6	22.5
3092	16	54.6	+11 23	8.0	89.0	22.6
3091	16	54.3	+11 33	7.5	89.1	22.6
3166	17	15.2	+11 50	7.2	29.8	22.5
3176	17	7.4	+12 13	7.0	29.6	22.6
3161	17	4.0	+12 39	7.0	29.6	22.6
3152	17	0.4	+12 18	8.0	29.6	22.5
3309	17	0.8	+13 4	8.1	29.6	22.7
3142	16	58.7	+12 57	4.5	89.3	22.7

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Plate 1381.

	x	H	Type	No. Lines	K	Focus	Other Lines.	V.	H.	V.	H.
	18.1	9.6	I	3	N	1	—	9.0	19.2 / 4.8	13.7	70.2
	18.6	9.7	III	3	K=H	1	F.	9.3	19.4 / 4.8	13.4	70.0
	18.2	22.9	I	7	N	3	F.	9.1	45.8 / 11.4	13.6	43.6
	18.8	23.2	III	3	K=H	1	F.	9.4	46.4 / 11.6	13.3	43.0
	17.1	9.6	I	4	K=H	1	—	8.6	19.2 / 4.8	14.1	70.2
?	17.8	16.0	III	2	K=H	2	Bright seen,	8.9	32.0 / 8.0	13.8	57.4
	17.7	16.1	I	8	K=.2H	4	F.	8.8	32.2 / 8.0	13.9	57.2
?	17.1	19.1	III?	2	K=H	2	seen,	8.6	38.2 / 9.6	14.1	51.2
	17.6	20.2	I?	6	K=H	3	F.	8.8	40.4 / 10.1	13.9	49.0
	17.5	23.6	III	3	K=H	2	F.	8.8	47.2 / 11.8	13.9	42.2
?	16.3	10.9	III	3	K=1.2H	1	F. Bright seen	8.2	21.8 / 5.4	14.5	67.6
	16.0	12.2	III	1	N	1	—	8.0	24.4 / 6.1	14.7	65.0
?	16.0	16.3	III?	3	K=H	2	seen,	8.0	32.6 / 8.2	14.7	56.8
?	16.8	16.4	III	3	K=H	3	F, Bright seen	8.4	32.8 / 8.2	14.3	56.6
?	16.7	18.3	III	2	K=H	2	seen,	8.4	36.6 / 9.2	14.3	52.8
?	16.6	19.5	III	1	N	2	seen,	8.3	39.0 / 9.8	14.4	50.4
	16.6	22.8	III	1	N	1	—	8.3	45.6 / 11.4	14.4	43.8
	15.5	9.7	III	2	K=H	1	—	7.8	19.4 / 4.8	14.9	70.0
	15.5	10.0	III	1	N	1	—	7.8	20.0 / 5.0	14.9	69.4
?	15.8	11.1	III	2	K=H	1	seen,	7.9	22.2 / 5.6	14.8	67.2
	15.0	12.7	III?	1	N	1	—	7.5	25.4 / 6.4	15.2	64.0
	15.0	13.6	III	1	N	1	—	7.5	27.2 / 6.8	15.2	62.2
	15.1	17.1	I	8	N	4	F.	7.6	34.2 / 8.6	15.1	55.2
	15.0	21.7	I	7	N	4	—	7.5	43.4 / 10.8	15.2	46.0
	14.6	7.2	III	2	K=H	1	—	7.3	14.4 / 3.6	15.4	75.0
?	14.6	8.1	III	2	K=H	2	seen,	7.3	16.2 / 4.0	15.4	73.2
	14.5	9.7	I	4	N	1	—	7.8	19.4 / 4.8	14.9	70.0
	14.4	9.8	I	3	N	1	—	7.2	19.6 / 4.9	15.5	69.8

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No.	R.a.	Dec.	Mag.	H.	V.	
3342	17	10.7	+13 29	8.1	29.9	22.5
3341	17	10.5	+13 17	7.2	29.9	22.6
3233	16	42.9	+13 31	5.6	88.9	22.6
3228	16	42.3	+13 8	7.3	88.7	22.5
3216	17	10.6	+14 3	7.9	29.8	22.6
3295	16	57.3	+13 47	6.6	89.3	22.7
~~3292~~	~~16~~	~~57.0~~	~~+13 49~~	~~6.4~~	~~8~~	
3292	16	57.0	+13 49	6.4	89.2	22.6
3155	16	50.9	+14 7	6.5	89.1	22.7
3258	16	48.6	+13 52	6.3	89.0	22.7
3225	16	41.5	+13 51	5.9	88.7	22.6
3207	17	8.0	+14 34	Var.	29.8	22.8
3201	17	5.4	+14 41	7.3	29.8	22.7
3180	16	56.6	+14 45	6.5	89.2	22.8
3179	16	56.5	+14 20	4.8	89.3	22.7
3161	16	52.6	+14 18	6.8	89.2	22.7
3148	16	50.0	+14 23	6.5	89.0	22.7
3121	16	42.1	+14 22	8.5	87.7	22.7
3215	17	10.5	+14 51	8.3	29.9	22.6
3213	17	9.9	+14 50	8.1	29.9	22.6
3206	17	7.7	+14 45	8.2	29.9	22.7
~~3203~~	~~17~~	~~7.5~~	~~+14 45~~	~~8.2~~		
3122	17	4.4	+15 6	8.0	29.8	22.6
3118	17	2.8	+15 9	7.3	29.6	22.7
3095	16	55.0	+15 9	6.2	89.2	22.8
3066	16	45.5	+15 13	6.1	88.9	22.7
3171	17	15.9	+15 19	7.0	30.3	22.6
3163	17	13.0	+15 19	7.2	30.2	22.6
~~3153~~	17	10.7	+15 21	8.3	30.1	22.6
3149	17	10.5	+15 27	8.3	30.1	22.6

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August 31, 1881.

Plate 1381.

	V	H	Type	No. Lines	K	Forms	Other lines.	V.	H.	V.	H.
	14.5	14.3	II	3	K=H	1	F.	7.2	28.6	15.5	60.8
	14.5	15.0	II	2	K=H	1	F?	7.2	30.0	15.5	59.4
	14.5	17.7	II	2	K=H	1	—	7.2	35.4	15.5	54.0
?	14.0	18.5	II	2	K=H	2	neb.	7.0	37.0	15.7	52.4
?	14.0	19.7	III	2	K=H	2	neb.	7.0	39.4	15.7	50.0
	14.8	21.7	I	7	N	3	F?	7.4	43.4	15.3	46.0
	13.7	6.1	I	7	N	4	—	6.8	12.2	15.9	77.2
	13.1	8.4	III	1	N	1	—	6.6	16.8	16.1	72.6
	13.3	9.8	III	1	N	1	—	6.6	19.6	16.1	69.8
?	13.6	19.5	II	2	K=H	1	neb.	6.8	39.0	15.9	50.4
?	13.6	20.7	II	2	K=H	2	neb.	6.8	41.4	15.9	48.0
	13.9	21.1	I	5	N	2	—	7.0	42.2	15.7	47.2
	13.2	22.1	I	6	N	2	—	6.6	44.2	16.1	45.2
?	13.9	22.7	II	3	K=H	2	F, neb.	7.0	45.4	15.7	44.0
	12.0	5.6	I	4	K=H	1	—	6.0	11.2	16.7	78.2
	12.4	6.2	I	8	N	4	F.	6.2	12.4	16.5	77.0
	12.9	8.1	II	2	K=H	1	—	6.4	16.2	16.3	73.2
	12.2	11.2	II?	1	N	1	—	6.1	22.4	16.6	67.0
	12.0	13.6	II	1	N	1	—	6.0	27.2	16.7	62.2
?	12.8	14.0	II	2	K=H	3	neb.	6.4	28.0	16.3	61.4
	12.4	15.0	III	1	N	1	—	6.2	30.0	16.5	59.4
	12.4	19.6	I	5	K=.5H	2	—	6.2	39.2	16.5	50.2
	11.0	6.7	I	4	N	1	—	5.5	13.4	17.2	76.0
	11.5	7.6	III	1	N	1	—	5.8	15.2	16.9	74.2
	11.6	10.1	I	5	N	2	—	5.8	20.2	16.9	69.2
	11.8	17.3	I	6	K=.2H	2	—	5.9	34.6	16.8	57.8
	11.8	12.6	I	4	N	1	—	5.9	25.2	16.8	64.2
	10.4	9.3	I	9	K=.2H	4	F.	5.2	18.6	17.5	70.8

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No.	R.A.	Dec.	Mag.	It.	V.	
3116	17	1.1	+ 15 25	7.8	29.7	22.6
3108	16	59.7	+ 15 26	7.0	89.7	22.6
3090	16	53.9	+ 15 23	7.7	89.3	22.6
3089	16	52.1	+ 15 42	6.8	89.1	22.7
3082	16	49.6	+ 15 37	6.5	89.0	22.6
3066	16	45.5	+ 15 13	6.1	88.9	22.6
3179	17	18.0	+ 15 46	6.2	30.2	22.6
3150	17	12.9	+ 16 16	8.1	29.7	22.9
~~3151~~	~~17~~	~~13.5~~	~~+ 16 2~~	~~7.4~~		
3147	17	10.5	+ 15 59	7.1	30.1	22.6
3083	16	50.1	+ 15 53	7.2	89.1	22.7
3077	16	47.6	+ 15 53	7.3	89.0	22.7
3072	16	46.8	+ 15 39	7.8	89.0	22.6
3051	16	44.6	+ 16 3	7.5	88.8	22.6
3058	16	43.4	+ 15 39	6.8	88.8	22.6
3183	17	19.2	+ 16 32	6.5	30.4	22.5
3174	17	18.0	+ 16 28	5.5	30.4	22.7
3151	17	13.5	+ 16 2	7.4	29.7	22.4
3130	17	7.5	+ 16 32	8.3	29.9	22.6
3105	17	2.6	+ 16 39	8.0	29.8	22.6
3102	17	1.7	+ 16 17	6.5	29.7	22.7
3094	16	59.7	+ 16 29	7.8	89.7	22.7
3069	16	49.9	+ 16 32	7.2	89.1	22.7
3231	17	17.0	+ 17 2	8.5	30.4	22.5
3163	17	15.1	+ 16 53	6.5	30.3	22.7
3139	17	9.9	+ 16 50	7.6	30.1	22.6
3083	16	54.5	+ 16 49	7.2	89.1	22.7
3039	16	43.6	+ 16 46	7.7	88.8	22.7
3216	17	14.7	+ 17 29	6.0	30.3	22.7

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August 31, 1887.

Plate 1381.

r	H	Type	No. lines	K	Focus	Other lines.	V.	H.	V.	H
10.7	9.3	III	1	N	1	—	5.4 21.4	18.6	17.3	70.8
10.8	11.1	I	4	N	2	—	5.4	22.2	17.3	67.2
10.5	23.4	I	6	K=H	2	—	5.2	46.8	17.5	42.6
9.3	10.5	III	1	N	1	—	4.6	21.0	18.1	68.4
9.4	10.7	III	1	N	1	—	4.7	21.4	18.0	68.0
9.4	14.4	I	3	N	1	—	4.7	28.8	18.0	60.6
9.4	17.8	I	5	K=.8H	2	—	4.7	35.6	18.0	53.8
9.6	18.2	I	5	N	2	—	4.8	36.4	17.9	53.0
?	8.9	8.3	III	1	N	3	Bright plus	4.4	16.6	18.3	72.8
9.0	10.1	I	6	N	3	—	4.5	20.2	18.2	69.2
8.6	19.2	III	1	N	1	—	4.3	38.4	18.4	51.0
?	8.2	20.0	III	2	K=H	3	Bright plus	4.1	40.0	18.6	49.4
?	8.8	21.3	III	2	K=H	2	Rem	4.4	42.6	18.3	46.8
8.2	23.2	III	2	K=H	1	—	4.1	46.4	18.6	43.0
7.1	6.5	I	4	N	1	—	3.6	13.0	19.1	76.4
6.2	8.7	III	1	N	1	—	3.1	17.4	19.6	72.0
6.6	11.2	III	2	K=H	1	—	3.3	22.4	19.4	67.0
6.0	15.5	I	9	N	4	F?	3.0	31.0	19.7	58.4
6.3	16.6	I	6	K=.2H	3	—	3.2	33.2	19.5	56.2
6.9	16.8	I	4	N	1	—	3.4	33.6	19.3	55.8
5.6	10.8	III	2	K=H	1	—	2.8	21.6	19.9	67.8
?	5.8	15.9	III	1	N	1	Rem	2.9	31.8	19.8	57.6
?	4.7	5.2	I	6	?	5	Rem	2.4	10.4	20.3	79.0
4.0	9.6	I	3	N	1	—	2.0	19.2	20.7	70.2
?	3.1	20.1	III	2	K=H	3	Bright Rem	1.6	40.2	21.1	49.2
2.1	11.5	III	2	K=H	1	—	1.0	23.0	21.7	66.4
2.6	11.9	III?	2	K=H	1	—	1.3	23.8	21.4	65.6
2.6	12.2	III	1	N	1	—	1.3	24.4	21.4	65.0

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No	R.A.	Dec.	Mag.	H.	V.	
3213	17	11.5	+17	16	7.4	30.1	22.7
3196	17	7.8	+17	15	7.5	30.0	22.7
3093	16	41.9	+17	24	6.8	88.7	22.6
3202	17	9.2	+17	60	7.7	30.2	22.6
~~3201~~	~~17~~	~~8.7~~	~~+17~~	~~58~~	~~7.0~~		
3201	17	8.7	+17	58	7.0	30.1	22.7
3167	17	0.5	+17	56	8.9	29.3	22.6
3280	16	53.4	+18	1	7.0	89.0	22.7
~~3136~~	~~16~~	~~52.6~~	~~+17~~	~~55~~	~~7.2~~		
3136	16	52.6	+17	55	7.2	89.0	22.7
3351	17	13.9	+18	14	5.3	30.5	22.6
3336	17	10.1	+18	11	7.5	30.3	22.7
3271	16	50.6	+18	28	7.3	89.0	22.8
3226	16	49.0	+18	41	4.8	89.0	22.8
3261	16	46.3	+18	19	6.5	88.9	22.7
3244	16	42.3	+18	34	7.0	88.7	22.7
3363	17	17.7	+18	59	7.5	30.7	22.6
3281	17	13.2	+19	32	7.3	30.6	22.6
3256	17	7.8	+19	21	8.0	30.2	22.7
3220	16	58.4	+19	49	6.0	89.4	22.8
3217	16	56.2	+19	37	7.0	89.4	22.8
3215	16	55.7	+19	16	8.0	89.3	22.7
3431	17	8.2	+20	7	8.8	29.8	22.9
3218	16	57.6	+19	54	6.2	89.4	22.8
3481	17	20.6	+20	13	5.7	31.0	22.6
3438	17	10.7	+20	29	8.1	29.9	22.5
3002	16	48.7	+21	13	6.0	89.9	22.8
3070	17	7.5	+21	37	6.5	30.5	22.6
3067	17	6.4	+21	17	8.5	30.2	22.6
~~3063~~	~~17~~	~~5.9~~	~~+21~~	~~25~~	~~7.5~~		
3063	17	5.9	+21	25	7.5	30.3	22.7

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August 31, 1887.

Plate 1381.

V	H	Type	No. Lines	K	Focus	Other Lines	V.	H.	V.	H.	
2.6	12.9	I?	4	K=H	1	—	1.3	25.8	21.4	63.6	
2.1	15.2	III	2	K=H	1	—	1.0	30.4	21.7	59.0	
2.0	17.2	I	4	K=H	1	—	1.0	34.4	21.7	55.0	
1.9	8.1	I?	2	N	2	F?	1.0	16.2	21.7	73.2	
2.6	7.5	III	2	K=H	1	—	1.3	15.0	21.4	74.4	

Plate 1463

	8.6	18.4	I	4	?	3	F?	4.3	36.8	31.1	56.0 -1.0
1.	30	20.6	12.2	I	4	?	1	F?	10.3	24.4	25.1 24.4 +0.5

This plate was measured wrong side up.

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No.	R.A.	Decl.	Mag.	H.	V.
3059	17	4.3 +21	24	7.8	30.1 22.7
3045	16	59.3 +21	41	8.0	89.7 22.7
3022	16	54.9 +21	43	7.3	89.3 22.7
3100	17	14.6 +21	42	7.2	30.8 22.7
3103	17	15.9 +21	18	7.0	30.9 22.6
~~3100~~	~~17~~	~~14.6 +21~~	~~42~~	~~7.2~~	

?

2947	16	54.8 +31	9	3.5	91.6	35.5
3221	17	9.1 +25	1	3.0	33.5	35.3

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