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Plate 155.

	V.	M.	Type	No Lines	K	Focus	Other Lines.
10 45	22.3	17.8	I	5	N	2	—
	22.0	15.2	I	3	N	1	—
	22.0	20.3	I	5	N	2	—
	21.4	14.8	I	3	N	1	—
	21.0	12.7	I	4	N	1	—
	20.9	10.3	I	2	N	1	—
	20.3	15.6	I	6	N	3	—
	20.0	8.8	I	3	N	2	—
	20.0	16.3	I	4	N	1	—
	19.9	21.3	I	4	N	1	—
	19.7	24.0	I	3	N	1	—
	19.5	9.9	I	3	N	1	—
	19.3	8.5	I	4	N	2	—
	19.1	12.1	I	5	N	2	—
	19.2	16.6	I	4	N	1	—
	18.6	12.6	I	8	K=H	5	—
	18.5	18.2	I	7	K=H	3	—
	18.5	20.2	I	4	N	2	—
	18.6	23.7	I	4	N	1	—
	18.2	13.7	I	5	N	2	—
	18.0	5.8	?	2	N	2	—
	17.5	22.3	I	4	N	1	—
?	17.2	19.2	III?	7	K=1.5H	5	seen
	16.6	19.1	III	5	K=1.5H?	2	—
	16.8	19.1	I	4	N	1	—
	17.0	13.1	I	6	K=H	2	—
	16.9	9.2	I	4	N	1	—
	16.6	22.7	III?	2	N	2	—

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D M.

D M.	No.	R A.	Dec.	Mag.
5h53m +51°.5	1146	5h 53m 1.0s	+51° 34.6	6.3
6 1 +51.8	1161	6 1 18.2	+51 47.9	8.9
5 44 +51.7	1128	5 44 44.8	+51 45.4	7.0
6 2 +52.0	1046	6 2 27.0	+52 1.8	7.7
6 9 +52.2	1059	6 9 15.7	+52 12.5	7.7
6 17 +52.2	1077	6 17 23.4	+52 13.4	8.0
6 0 +52.7	1041	6 0 7.8	+52 40.1	6.7
6 22 +52.5	1097	6 22 21.1	+52 33.5	7.0
5 58 +52.8	1040	5 58 27.9	+52 49.9	8.9
5 41 +52.7	1004	5 41 17.2	+52 45.3	8.5
5 32 +52.6	991	5 32 41.7	+52 38.4	8.0
6 19 +52.9	1085	6 19 32.8	+52 53.3	8.1
6 23 +53.0	1098	6 23 33.6	+52 59.0	7.5
6 12 +53.3	1013	6 12 10.7	+53 17.8	8.2
5 56 +53.2	989	5 56 33.8	+53 8.5	8.0
6 10 +53.5	1008	6 10 1.2	+53 30.5	5.8
5 51 +53.5	981	5 51 21.8	+53 31.2	7.0
5 44 +53.5	966	5 44 35.3	+53 32.0	8.2
5 34 +53.3	944	5 34 54.7	+53 16.3	9.5
6 6 +53.7	1003	6 6 19.3	+53 41.8	7.5
6 32 +53.5	1056	6 32 28.4	+53 25.7	6.5
5 37 +53.9	950	5 37 9.6	+53 57.9	8.5
5 47 +54.3	970	5 47 37.0	+54 16.4	4.0
5 48 +54.5	971	5 47 51.2	+54 32.0	7.0
5 48 +54.4	973	5 48 6.6	+54 22.3	8.5
6 8 +54.3	1012	6 8 6.0	+54 18.2	8.9
6 23 +54.2	1048	6 23 19.9	+54 10.4	8.0
5 36 +54.5	942	5 35 42.1	+54 24.0	6.5

look up on chart

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Plate 155

V.	16.	Type	No. Lines	K	Focus	Other Lines.	
16.2	15.1	I ?	5	N	2	—	
16.7	10.8	I	3	N	1	—	
16.5	10.6	I	3	N	2	—	
16.0	19.8	I	3	N	1	—	
15.8	8.7	I	4	N	1	—	
15.6	9.7	III ?	3	N	2	—	
15.6	10.5	I	3	N	1	—	
16.9	19.9	I	4	N	1	—	
15.8	23.7	I	5	N	3	—	
15.1	19.1	I	7	K=2.7E	3	—	
15.1	21.5	I	4	N	2	—	
14.3	8.3	I	5	N	2	—	
14.5	9.2	III	3	N	2	—	
14.1	9.0	I	4	N	2	—	
14.0	9.7	I	4	N	2	—	
14.0	11.6	?	2	N	1	—	
13.5	12.7	I	6	K=H	3	—	
~~14.5~~	~~15.2~~	~~III ?~~	~~2~~	~~N~~	~~1~~	~~—~~	
14.5	18.8	I	3	N	1	—	
14.5	19.6	I	6	N	3	—	
14.4	20.4	I	6	N	5	—	
14.3	22.1	I	3	N	1	—	
13.7	19.5	I	3	N	2	—	
? 13.8	19.8	III ?	2	N	2	—	
13.1	16.2	I	5	N	2	—	
13.2	16.4	I	5	N	2	—	
13.3	22.7	I	6	N	4	—	
13.2	8.2	I	4	N	1	—	

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D M.

D M.	No.	R. A.	Decl.	Mag.	
6 2 +54.7	998	6 1 44.8	+54 42.7	8.4	hookup on chart
6 16 +54.5	1032	6 16 34.4	+54 28.0	8.3	
6 17 +54.7	1036	6 17 11.8	+54 41.7	7.9	
5 45 +54.7	963	5 45 14.4	+54 43.0	8.8	
6 24 +54.7	1050	6 23 52.7	+54 41.6	8.3	
6 20(+) +54.9(+)	1043	6 20 21.7	+54 56.5	7.8	
6 18 +54.8	1040	6 18 4.8	+54 50.8	9.1	
5 44 +54.1(+)	957	5 43 52.6	+54 9.6	9.0	
5 32 +54.8	932	5 32 1.5	+54 46.5	7.0	
5 48 +55.3	1036	5 47 41.2	+55 17.9	6.5	
5 39 +55.2	1022	5 39 25.7	+55 12.8	8.0	
6 26 +55.5	1097	6 26 37.0	+55 27.9	7.0	
6 22 +55.5	1094	6 22 59.7	+55 35.8	8.0	
6 23 +55.6	1096	6 23 52.0	+55 46.5	8.8	
6 21 +55.7	1089	6 20 39.4	+55 42.1	8.5	
6 14 +55.7	1077	5 14 1.1	+55 46.4	7.8	
6 10 +56.1	1115	6 10 15.3	+56 2.9	7.8	
~~6 1 +55.6~~	~~1062~~	~~6 1 19.1~~	~~+55 36.7~~	~~7.8~~	
5 48 +55.5	1038	5 48 31.6	+55 30.6	8.6	
5 45(+) +55.6	1032	5 45 31.8	+55 37.9	7.1	
5 42 +55.6	1027	5 42 42.3	+55 40.4	5.0	
5 37 +55.5	1016	5 36 46.1	+55 31.6	8.6	
5 46 +55.8(+)	1033	5 46 1.9	+55 53.1	8.2	
5 45 +55.9	1028	5 44 56.7	+55 55.8	7.0	
5 58 +56.2	1093	5 57 44.0	+56 17.0	8.0	
5 57 +56.1(+)	1090	5 56 19.3	+56 10.1	8.5	
5 34 +56.0	1058	5 34 18.8	+56 2.5	6.1	
6 26 +56.0	1137	6 26 3.9	+56 0.6	8.7	

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Plate 155

V.	16.	Type	No. Lines	K	Focus	Other Lines.
13.0	11.6	I	7	K=.7E	5	—
13.0	13.5	II?	2?	?	1	—
13.0	5.4	I	2	N	3	—
12.6	13.7	III	5	?	2	—
12.8	7.5	III?	2	N	2	—
12.5	9.0	I	6	K=.7E	4	—
12.4	23.6	II	2	N	3	—
12.0	12.0	I	4	N	1	—
11.7	12.6	III	5	K=H	3	—
11.7	14.5	II	3	K=H	3	—
11.6	15.8	?	3	N	2	—
11.7	18.1	III	6	K=H	3	Steep
11.9	15.8	III	2	N	1	—
11.7	19.7	I	4	N	2	—
11.6	20.5	I	5	N	2	—
11.9	21.5	I	5	N	4	—
11.9	22.5	I	5	N	3	—
11.5	7.2	I	5	N	2	—
11.3	7.8	I	5	N	2	—
11.5	8.7	I	6	N	5	—
11.3	9.5	I	3	N	1	—
11.2	9.8	I	4	N	1	—
10.7	8.5	II?	2	N	2	—
10.9	14.2	I	5	K=.7E	3	—
11.0	21.4	I	3	N	1	—
10.9	16.2	I	3	N	1	—
10.6	6.9	I	4	N	1	—
10.5	6.2	III	4	K=.5H	4	—
9.6	19.9	I	4	N	2	—

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D.M.

D.M.	No.	R.A.	Dec.	Mag.	
6h 14m +56.°4	1125	6h 14m 11.8s	+56° 20.1	6.2	Look up on Chart
6 7 +56.3	1108	6 7 16.3	+56 17.2	8.0	
6 36 +55.9	1122	6 36 5.5	+55 50.8	6.0	
6 7 +56.6	1106	6 6 52.9	+56 34.2	6.8	
6 28 +56.2	1140	6 28 48.5	+56 12.4	7.5	
6 24 +56.5	1134	6 23 48.5	+56 29.4	6.8	" " " "
5 30 +56.5	1050	5 30 45.8	+56 30.6	6.5	
6 13 +56.9	1123	6 13 4.0	+56 55.9	8.5	
6 11 +57.0	963	6 10 45.3	+57 2.4	6.9	" " " "
6 4 +57.0	1100	6 3 54.0	+56 57.9	7.3	" " " "
5 59 +57.0	945	5 59 7.3	+57 2.9	8.1	
5 50 +57.0	1086	5 50 42.1	+56 59.5	6.5	" " " "
5 48 +56.9	1083	5 48 15.0	+56 53.2	7.5	
5 45 +56.9	1080	5 44 42.5	+56 56.0	8.4	
5 42 +57.0	1077	5 41 41.2	+56 59.5	7.8	
5 38 +56.8	1065	5 38 12.5	+56 51.6	6.6	" " " "
5 34 +56.9	1059	5 34 33.0	+56 50.6	6.6	" " " "
6 30 +56.8	1143	6 30 36.0	+56 49.2	8.0	
6 28 +57.0	1139	6 28 27.0	+56 59.8	8.0	
6 25 +57.0	1136	6 25 19.0	+56 58.7	6.2	" " " "
6 21 +57.1	981	6 21 9.0	+57 7.7	8.7	
6 20 +57.1	974	6 19 46.0	+57 7.7	9.1	
6 26 +57.3	988	6 25 57.0	+57 18.0	6.7	
6 5 +57.5	952	6 4 55.6	+57 27.4	7.0	" " " "
5 38 +57.2	916	5 38 15.5	+57 13.3	8.3	
5 57 +57.5	942	5 57 31.5	+57 26.3	8.9	
6 32 +57.2	1000	6 32 1.3	+57 13.8	8.6	
6 34 +57.3	1004	6 34 26.8	+57 18.6	6.1	" " " "
5 43.5 +58.0	872	5 43 32.0	+58 0.4	8.5	

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Plate 155.

V	H.	Type	No. Lines	K	Focus	Other Lines.	
9.3	20.4	I	4	N	1	—	
9.2	6.4	I	4	K=H	2	—	
9.3	9.5	I	5	K=.5H!	2	—	
9.0	8.4	II?	3	N	2	—	
9.0	9.3	I	6	K=H	4	—	
9.0	10.8	III	6	K=H	4	—	
8.7	11.8	III	7	?	4	neu	
8.7	12.2	II	3	K=H	3	—	
8.4	12.1	I	6	K=H	4	—	
9.0	14.1	I	3	N	1	—	
8.0	14.3	I	6	K=2H	3	—	
8.4	17.5	III?	2	?	2	—	
8.0	16.3	III	7	K=H	5	—	
8.0	16.9	I	4	N	1	—	
8.0	17.8	I	4	N	1	—	
8.0	19.0	I	4	N	1	—	
7.8	19.9	I	3	N	1	—	
8.0	20.9	I	6	N	5	—	
7.8	13.8	I	8	N	5	—	
7.5	14.7	II	5	K=H	3	—	
7.5	16.1	II	2	K=H	2	—	
7.2	17.5	III	5	K=H	3	neu	
7.0	13.2	I	8	K=2H	4	—	
6.6	14.0	II	3	K=H	1	—	
6.3	12.6	I	4	N	3	—	
6.0	7.1	I	6	N	5	—	
6.0	7.5	I	5	K=H	2	—	
6.4	9.1	II	2	N	2	—	

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D M.

D M.	No.	R.A.	Dec.	Mag.	
5h 41m +58° 2'	868	5h 41m 38.0s	+58° 11.7'	8.5	
6 34 +57.9	1003	6 34 9.2	+57 55.9	8.0	
6 23 +58.1	941	6 23 1.4	+58 5.5	7.9	
6 27 +58.1	950	6 27 14.5	+58 12.3	8.1	
6 24 +58.2	943	6 23 39.4	+58 12.7	6.8	Took up on chart
6 18 +58.2	932	6 18 13.0	+58 16.2	6.3	
6 14 +58.5	927	6 14 13.0	+58 29.5	6.0	
6 13 +58.5	922	6 12 57.9	+58 29.9	7.6	" " " "
6 14 +58.8	924	6 13 47.5	+58 48.2	8.0	" " " "
6 6 +58.4	913	6 5 39.0	+58 21.6	8.8	
6 5 +58.8	912	6 4 45.0	+58 52.5	7.6	" " " "
5 53 +58.7	891	5 52 43.0	+58 42.8	8.0	" " " "
5 57 +58.9	897	5 57 14.0	+58 54.9	6.0	" " " "
5 54.8 +58.8	895	5 54 43.4	+58 56.4	8.6	
5 51 +58.8	889	5 51 20.8	+58 52.9	8.8	
5 46 +58.8	884	5 46 44.0	+58 52.5	8.8	
5 43 +59.0	871	5 43 15.2	+58 59.8	8.5	
5 39 +58.9	863	5 39 33.1	+58 54.0	6.5	" " " "
6 6 +59.0	959	6 6 51.0	+59 3.3	5.0	" " " "
6 3 +59.2	953	6 3 18.4	+59 15.0	6.5	" " " "
5 58 +59.2	948	5 58 5.6	+59 10.7	7.3	
5 52 +59.4	937	5 52 15.6	+59 23.4	6.7	" " " "
6 9 +59.5	964	6 9 14.5	+59 24.9	7.0	" " " "
6 6 +59.9	958	6 6 21.0	+59 52.2	8.0	
6 12 +59.7	969	6 11 45.0	+59 43.4	8.0	" " " "
6 34 +59.6	1015	6 33 26.3	+59 34.4	5.0	" " " "
6 32 +59.6	1013	6 32 4.0	+59 36.6	8.1	" " " "
6 25 +59.6	998	6 25 19.1	+59 32.3	7.8	" " " "

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Plate 155.

V.	H.	Type	No. Lines	K	Focus	Other Lines.	
6.0	9.6	I	5	N	3	—	6
5.9	14.9	III	6	K=H	3	rem	6
6.1	20.1	I	8	N	5	—	5
5.7	5.3	I	6	K=.2H?	3	—	6
5.3	11.2	I	5	N	3	—	6
5.5	12.8	I?	3	?	2	—	6
5.0	16.1	III	1?	N	2	—	5
5.1	19.1	I	4	?	2	—	5
4.0	10.9	I	2	N	1	—	6
4.1	13.4	I	5	K=.5H	2	—	6
4.0	12.6	I	3	N	2	—	6
2.8	14.5	III	5	N	3	rem	6
2.3	9.6	I	5	K=.8H	3	—	6
2.4	9.8	III	3	K=H	3	—	6
2.3	13.5	I	4	K=H	2	—	6
2.5	20.4	I	3	N	2	—	5
2.8	22.6	?	2	N	2	—	6
2.0	17.6	I	4	N	1	—	5
1.5	9.2	I	1	N	3	—	6
1.8	23.3	I	3	N	2	—	5

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D M.

D M.		No.	R.A.		Decl.		Mag.	
6 243	+59.8	995	6h	22m 43.0s	+59°	53.2′	8.4	Look up on Chart
6 2	+60.0	938	6	2 41.2	+60	1.7	5.8	
5 42	+59.9	920	5	42 1.3	+59	50.5	5.7	" " " "
6 40	+59.6	1028	6	40 18.8	+59	36.8	6.0	
6 17	+60.2	971	6	17 21.5	+60	13.8	7.2	" " " "
6 11	+60.1	955	6	11 9.0	+60	9.0	7.0	
5 58	+60.5	931	5	58 9.0	+60	28.5	6.9	
5 46	+60.4	915	5	45 40.8	+60	21.4	7.1	
6 19	+60.9	974	6	19 16.8	+60	49.7	8.5	
6 9	+60.9	951	6	8 53.0	+60	49.7	7.0	
6 12.9	+60.9	981	6	12 53.9	+60	51.7	8.1	" " " "
6 4	+61.5	869	6	4 35	+61	31.8	5.5	
6 25	+61.6	896	6	25 21	+61	35.7	7.3	" " " "
6 24	+61.6	893	6	24 28	+61	35.7	6.1	
6 8.8	+61.8	878	6	8 43	+61	48.9	6.9	
5 40	+61.6	831	5	39 56	+61	37.7	7.9	" " " "
5 31	+61.4	816	5	30 52	+61	22.9	6.5	
5 51	+61.9	849	5	51 27	+61	54.2	8.2	
6 27	+62.0	867	6	27 10	+62	3.6	7.2	" " " "
5 27	+61.9	806	5	27 4	+61	51.8	6.8	

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Plate 459.

2	0.	V	H.	Type	Nd Lines	K	Focus	Other Lines.	V	H	V	H
		19.6	18.0	I	5	N	2	—	9.8	36.0	3.1	13.8
		19.5	16.4	I?	2	N	2	—	9.8	32.8	3.1	17.0
		19.9	13.3	I	3	N	1	—	10.0	26.6	2.9	23.2
		18.9	14.1	I	2	N	1	—	9.4	28.2	3.5	21.6
		18.5	15.6	III	1	K=H	2	—	9.2	31.2	3.7	18.6
		18.5	12.8	I	4	N	2	—	9.2	25.6	3.7	24.2
		17.6	14.6	I	3	N	1	—	8.8	29.2	4.1	20.6
		17.6	6.1	I	3	N	1	—	8.8	12.2	4.1	37.6
		17.0	7.3	I	3	N	2	—	8.5	14.6	4.4	35.2
		16.5	15.6	I	4	N	3	—	8.2	31.2	4.7	18.6
		15.6	6.9	I	3	N	1	—	7.8	13.8	5.1	36.0
		14.8	6.9	III?	1	N	2	—	7.4	13.8	5.5	36.0
		15.0	22.2	III	1	K=H	2	—	7.5	44.4	5.4	5.4
		13.6	13.1	I	3	N	2	—	6.8	26.2	6.1	23.6
		13.0	17.0	I	3	?	2	—	6.5	34.0	6.4	15.8
		12.9	9.3	I	3	N	2	—	6.4	18.6	6.5	31.2
		12.5	9.4	I	3	N	2	—	6.2	18.8	6.7	31.0
		11.5	18.3	I	3	N	1	—	5.8	36.6	7.1	13.2
		11.3	17.1	III	1	N	2	—	5.6	34.2	7.3	15.6
		11.0	13.6	I	3	N	1	—	5.5	27.2	7.4	22.6
		10.5	11.5	III	5	K=H	3	reen	5.2	23.0	7.7	26.8
		7.0	11.5	I	7	K=.2H	4	—	3.5	23.0	9.4	26.8
		7.0	16.3	III?	1	N	2	—	3.5	32.6	9.4	17.2
		7.0	16.1	I	3	N	1	—	3.5	32.2	9.4	17.6
		5.9	12.3	I	8	N	5	—	3.0	24.6	9.9	25.2
		5.0	14.9	I	6	N	4	—	2.5	29.8	10.4	20.0
2	25	4.0	14.2	I	2	N	1	—	2.0	28.4	10.9	21.4

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D m.

No.	R. A.	Dec.	Mag.	H	V	
2352	10 13 32.0	+3 0.8	6.5	49.5	12.8	
2361	10 16 55.7	+3 6.9	7.0	49.7	12.9	
2325	10 23 2.2	+2 54.2	7.5	49.6	12.9	
2371	10 21 29.5	+3 23.1	7.7	49.7	12.8	
2365	10 18 29.2	+3 39.0	7.5	49.7	12.8	
2379	10 24 8.9	+3 35.9	7.5	49.8	12.8	
2337	10 20 34.9	+4 3.7	7.8	49.8	12.9	
2378	10 37 32.1	+4 4.2	7.5	49.7	12.9	
2375	10 35 9.2	+4 19.7	7.7	49.8	12.8	
2328	10 18 37.0	+4 40.2	7.0	49.8	12.9	Look upon Chart
2386	10 36 5.7	+5 0.2	8.6	49.8	12.8	
2384	10 35 50.1	+5 30.9	6.2	49.6	12.9	
2301	10 5 16.5	+5 19.6	6.5	49.7	12.8	
2316	10 23 28.5	+6 5.6	8.1	49.7	12.9	look up on Chart
2301	10 15 43.2	+6 25.8	6.7	49.7	12.9	
2328	10 31 10.1	+6 28.8	7.7	49.8	12.9	
2326	10 30 55.1	+6 40.9	7.7	49.7	12.9	
2282	10 12 58.4	+7 8.8	8.0	49.6	12.9	
2289	10 15 26.5	+7 16.6	6.5	49.6	12.9	
2314	10 22 54.5	+7 47.7	7.5	50.1	13.3	Look up on Chart
2330	10 27 15.2	+7 41.4	6.3	50.3	12.9	" " " "
2374	10 27 25.5	+9 24.5	6.2	50.4	12.9	" " " "
2351	10 17 37.9	+9 32.5	6.0	50.2	13.0	
2352	10 17 57.5	+9 29.6	7.8	50.2	13.0	
2166	10 25 10.9	+10 2.7	4.1	49.8	13.0	
2152	10 19 59.7	+10 29.4	7.0	49.8	13.0	" " " "
2160	10 21 31.2	+10 53.4	7.7	49.9	12.9	

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Plate 478.

V.	H.	Type	K Lines	K	Focus	Other Lines.	V	H	V	H	H
23.0	11.4	I	4	N	2	—	11.5	22.8	1.4	47.5	46.8
22.0	18.2	I	3	N	1	—	11.0	36.4	1.9	34.9	33.2
~~21.9~~	~~9.1~~	~~I~~	~~0~~	~~N~~	~~1~~						
21.6	6.8	?	1	N	5	—	10.8	13.6	2.1	57.7	56.0
20.6	13.1	I	7	K=H	4	—	10.3	26.2	2.6	45.1	43.4
19.4	17.2	I	3	N	1	—	9.7	34.4	3.2	36.9	35.2 ~~35.2~~
18.0	21.2	I	4	K=H	2	—	9.0	42.4	3.9	28.9	27.2
17.8	10.8	I	3	N	1	—	8.9	21.6	4.0	48.7	48.0
17.0	8.5	I	6	N	4	—	8.5	17.0	4.4	54.3	52.6
~~17.0~~	~~12.0~~	~~I~~	~~0~~	~~N~~	~~1~~						
15.0	17.6	I	2	N	1	—	7.5	35.2	5.4	36.1	34.4
14.7	17.3	?	2	N	1	—	7.4	34.6	5.5	36.4	35.0
13.9	18.1	I	2	N	1	—	7.0	36.2	5.9	35.1	33.4
13.8	13.8	III	2	K=H	2	—	6.9	27.6	6.0	43.7	42.0
13.1	6.5	I	3	N	2	—	6.6	13.0	6.3	59.3	56.6
12.0	19.7	I	2	N	1	—	6.0	39.4	6.9	31.9	30.2
11.7	19.7	I	4	N	2	—	5.8	39.4	7.1	31.9	30.2
11.3	15.4	III	6	N	4	Reen	5.6	30.8	7.3	41.5	38.8
11.0	8.0	I	7	N	4	—	5.5	16.0	7.4	55.3	53.6
10.2	15.7	I	3	N	1	—	5.1	31.4	7.8	39.9	38.2
8.0	19.1	III	2	K=H	2	—	4.0	38.2	8.9	33.1	31.4
7.9	15.7	I	8	K=2H	4	—	4.0	31.4	8.9	39.9	38.2
7.9	14.4	I	7	?	4	—	4.0	28.8	8.9	42.5	40.8
7.5	10.9	III	2	K=H	2	—	3.8	21.8	9.1	49.5	47.8 ~~47.8~~
7.0	18.0	I	3	N	1	—	3.5	36.0	9.4	35.3	33.6
6.7	12.4	I ?	2?	N	1	—	3.4	24.8	9.5	46.5	44.8
6.8	5.8	III	3	N	3	—	3.4	11.6	9.5	59.4	58.0
6.5	19.2	III	1	N	1	—	3.2	38.4	9.7	32.9	31.2
2.5	20.5	I	4	N	2	—	1.2	41.0	11.7	30.3	28.6
2.2	21.2	I	3	N	2	—	1.1	42.4	11.8	28.9	27.2

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Dm.	R. A.		Dec.		Mag.	H	V
2624	11	46 25.5	+1	20.7	6.8	69.2	12.8
2597	11	32 58.9	+1	45.3	7.3	69.4	12.8
2489	11	43 9.0	+2	35.6	3.3	69.4	12.9
2539	11	35 0.1	+3	10.4	7.5	69.4	12.9
2521	11	26 57.8	+3	52.7	6.2	69.4	12.9
2546	11	48 3.9	+4	20.0	8.7	69.7	13.3
2556	11	52 31.9	+4	28.2	5.8	69.5	13.0
2528	11	34 12.4	+5	23.7	8.5	69.4	12.9
2530	11	34 43.1	+5	33.1	7.7	69.3	13.0
2526	11	33 30.4	+5	46.0	8.4	69.7	12.8
2545	11	41 41.3	+5	59.2	7.2	69.3	12.9
2543	11	56 21.0	+6	21.9	7.2	69.4	13.0
2465	11	29 50.4	+7	3.5	7.5	69.2	13.0
2468	11	29 50.4	+7	3.5	7.5	69.2	12.9
2479	11	38 25.2	+7	20.2	4.3	69.2	12.9
2502	11	53 27.2	+7	24.8	4.5	69.5	12.9
2477	11	37 57.7	+7	50.4	7.9	69.4	12.9
2532	11	31 0.0	+8	56.2	6.1	69.2	12.9
2545	11	37 49.2	+9	3.2	5.0	69.2	13.1
2549	11	40 28.9	+9	2.8	6.0	69.3	13.0
2560	11	47 38.0	+9	15.0	5.5	69.6	13.0
2530	11	33 14.7	+9	28.0	8.3	69.2	13.0
2553	11	44 30.5	+9	38.5	8.2	69.3	13.0
2583	11	57 49.9	+9	32.2	4.2	69.4	12.9
2523	11	30 42.3	+9	41.3	6.5	69.2	12.9
2377	11	28 13.3	+11	42.7	6.8	69.2	12.9
2372	11	26 39.7	+11	50.2	6.7	69.1	12.9

Look upon Chart

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Plate 498.

10 5 V.	H.	Type	No. Lines	K	Focus	Other Lines.	V	H	V	H
22.0	10.9	I	5	K=.5H	2	—	11.0	21.8	1.9	49.5
21.2	8.3	I	6	N	5	—	10.6	16.6	2.3	54.7
18.5	10.7	I	3	N	1	—	9.2	21.4	3.7	49.9
17.3	17.6	III	4	K=H	2	—	8.6	35.2	4.3	36.1
17.0	22.1	I	6	N	5	—	8.5	44.2	4.4	27.1
14.6	7.2	I	3	N	2	—	7.3	14.4	5.6	56.9
13.3	14.0	I	3	N	2	—	6.6	28.0	6.3	43.3
11.7	15.6	II	3	K=H	2	—	5.8	31.2	7.1	40.1
11.7	14.4	I	4	N	3	—	5.8	28.8	7.1	42.5
9.2	7.4	?	2	N	2	—	4.6	14.8	8.3	56.5
8.5	14.8	I	5	K=H?	2	—	4.2	29.6	8.7	41.7
7.7	17.9	I	4	K=H	3	—	3.8	35.8	9.1	35.5
7.7	14.2	I	5	?	3	—	3.8	28.4	9.1	42.9
6.7	8.5	I	5	N	3	—	3.4	17.0	9.5	54.3
5.0	7.9	?	1	N	1	—	2.5	15.8	10.4	55.5
3.8	16.4	III?	1	N	1	—	1.9	32.8	11.0	38.5
2.9	19.2	I	5	K=H	3	—	1.4	38.4	11.5	32.9
2.8	7.4	I	3	N	1	—	1.4	14.8	11.5	56.5

Plate 511.

21.0	10.6	I	4	N	2	—	10.5	21.2	7.5	69.1
19.1	9.1	III	3	K=H	2	—	9.6	18.2	8.4	72.1
18.7	7.9	I	4	N	1	—	9.4	15.8	8.6	74.5
17.5	21.5	III	2	N	2	—	8.8	43.0	9.2	47.3
16.5	12.0	I	5	K=H	3	—	8.2	24.0	9.8	66.3
16.0	7.5	I	4	N	2	—	8.0	15.0	0.0	75.3
14.0	9.0	I	6	K=H	3	—	7.0	18.0	1.0	72.3
13.0	13.4	I	4	N	2	—	6.5	26.8	1.5	63.5

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Dm.	R.A.		Dec.		Mag.	H	V
2865	13	49 6.6	+1	45.6	5.8	70.9	12.8
2761	13	54 17.0	+2	15.0	4.2	70.9	12.8
2834	13	49 21.0	+3	41.5	7.2	70.8	12.9
2775	13	35 47.3	+4	16.6	5.7	71.0	12.9
2764	13	26 47.6	+4	24.2	5.0	71.0	12.9
2836	13	56 40.5	+5	35.5	6.5	71.1	12.9
2800	13	43 8.4	+6	12.7	6.4	71.1	12.8
2690	13	39 47.1	+7	5.1	6.5	71.0	12.9
2701	13	42 14.7	+7	3.9	6.8	71.0	12.9
2801	13	56 25.2	+8	14.0	7.0	71.2	12.8
2767	13	41 20.7	+8	41.5	7.5	70.9	12.9
2798	13	35 4.6	+9	7.4	6.5	70.9	12.9
2814	13	42 33.8	+9	8.7	6.9	71.0	12.9
2835	13	54 11.0	+9	35.9	6.0	71.2	13.0
2617	13	55 26.0	+10	23.8	6.6	71.2	12.9
2599	13	38 4.5	+11	3.0	6.9	70.9	12.9
2589	13	32 24.8	+11	29.1	5.7	70.8	12.9
2625	13	56 25.8	+11	29.9	7.0	71.2	12.9

3811	14	8 58.9	−2	31.2	6.4	30.2	18.0
2937	14	11 57.2	−1	25.2	7.8	30.2	18.2
2943	14	14 30.6	−1	19.2	6.7	30.3	18.3
2758	13	47 15.4	−0	47.5	6.2	90.3	18.0
2796	14	6 13.6	−0	9.4	6.2	30.2	18.0
3171	14	15 21.3	+0	1.5	7.0	30.4	8.0
2913	14	12 18.8	+1	2.9	6.3	30.3	8.0
2895	14	3 25.6	+1	29.5	7.0	30.2	8.0

Look upon Chart
" " " "

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Plate 511

V.	H.	Type	No. Lines	K	Focus	Other Lines.	V	H	V	H
12.6	5.8	I	4	N	2	—	6.3	11.6	1.7	78.7
12.5	20.6	I	5	?	3	—	6.2	41.2	1.8	49.1
12.2	7.2	I	3	N	2	—	6.1	14.4	1.9	75.9
12.0	13.1	I	4	K=H	2	—	6.0	26.2	2.0	64.1
11.6	18.0	I	10	K=2H	5	—	5.8	36.0	2.2	54.3
10.0	16.5	I	3	N	2	—	5.0	33.0	3.0	57.3
9.9	12.6	I	8	N	5	—	5.0	25.2	3.0	65.1
10.0	7.4	I	2	N	1	—	5.0	14.8	3.0	75.5
9.0	14.1	?	1	N	1	—	4.5	28.2	3.5	61.9
8.5	11.1	I	2	N	1	—	4.2	22.2	3.8	68.1
8.6	20.5	I	3	N	2	—	4.3	41.0	3.7	49.3
5.0	16.8	I	4	N	2	—	2.5	33.6	5.5	56.7
3.6	23.6	I	2	N	1	—	1.8	47.2	6.2	43.1
3.1	6.7	I	5	N	3	—	1.6	13.4	6.4	76.9

Plate 537

21.2	6.5	I	4	N	2	—	10.6	13.0	7.6	55.6
20.5	7.3	?	2	N	2	—	10.2	14.6	8.0	54.0
20.0	16.0	I	4	N	2	—	10.0	32.0	8.2	36.6
19.8	12.4	III	5	K=H	3	—	9.9	24.8	8.3	43.8
19.4	23.9	II	3	K=H	4	—	9.7	47.8	8.5	2 X0.8
19.1	17.2	I	3	N	1	—	9.6	34.4	8.6	34.2
18.0	15.3	III	1	N	1	—	9.0	30.6	9.2	38.0
16.8	14.7	II	1	K=H	1	—	8.4	29.4	9.8	39.2
16.9	13.5	I	6	N	4	—	8.4	27.0	9.8	41.6
16.0	11.0	?	1	N	1	—	8.0	22.0	0.2	46.6
15.8	12.4	III?	2	N	2	—	7.9	24.8	0.3	43.8
15.6	9.1	III	5	K=H	3	—	7.8	18.2	0.4	50.4

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Dm.	R.A.			Dec.		Mag.	H	V
2927	14	18	34.3	+1	39.1	7.0	30.2	8.0
2865	13	49	6.6	+1	45.6	5.8	90.3	8.0
2920	14	15	51.1	+1	55.6	6.5	30.3	8.0
2783	14	4	10.0	+2	2.9	6.6	30.4	8.0
2761	13	54	17.0	+2	15.0	4.2	90.3	8.0
2768	13	57	16.7	+2	59.6	6.7	90.3	8.0
2867	14	4	56.5	+3	5.5	4.8	30.1	8.1
2806	14	15	22.4	+2	56.3	7.8	30.2	7.9
2859	14	2	8.9	+3	28.9	7.0	30.2	8.0
2874	14	8	1.9	+3	48.1	7.5	30.2	8.0
2834	13	49	21.0	+3	41.5	7.2	90.4	8.0
2836	13	56	40.5	+5	35.5	6.5	90.3	8.1
2800	13	43	8.4	+6	12.7	6.4	90.3	8.0
2875	14	16	59.1	+6	28.6	5.5	30.4	8.1

V

3933	14	56	13.2	−2	27.3	7.0	68.2	18.1
3928	14	53	47.3	−2	10.0	5.0	68.4	18.0
2981	14	36	17.0	−1	53.3	7.0	68.3	18.1
2991	14	43	30.5	−1	41.5	4.5	68.3	18.2
2957	14	20	44.6	−1	34.6	5.0	68.5	18.4
2973	14	34	1.0	−1	24.2	7.7	68.4	18.2
2867	14	37	44.6	−0	48.0	6.0	68.4	18.2
2875	14	38	52.3	−0	12.7	7.7	68.3	18.2
2886	14	41	28.0	−0	14.7	6.7	68.5	18.2
3261	14	46	25.3	+0	10.9	8.1	68.4	8.2
3258	14	43	35.3	+0	20.1	6.5	68.4	8.2
3277	14	50	8.9	+0	24.9	6.0	68.3	8.2

Look up on Chart

V

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Plate 537

V	16	Type	No. Lines	K	Focus	other Lines.	V	H	V	H
15.5	7.0	III	1	K=H	2	—	7.8	14.0	0.4	54.6
15.0	12.9	I	3	N	2	—	7.5	~~25.8~~	0.7	~~42.8~~
13.8	15.2	I	7	N	5	—	6.9	30.4	1.3	38.2
13.4	23.0	I	5	N	4	—	6.7	46.0	1.5	22.6
13.2	14.4	I	5	N	3	—	6.6	28.8	1.6	39.8
11.5	16.3	I	5	N	2	—	5.8	32.6	2.4	36.0
11.5	14.8	I	9	N	5	—	5.8	29.6	2.4	39.0
11.1	14.2	I	6	N	3	—	5.6	28.4	2.6	40.2
11.0	6.5	III	4	K=H	4	neen?	5.5	13.0	2.7	55.6
10.6	19.2	II?	3	K=H	3	—	5.3	38.4	2.9	30.2
9.5	7.4	I	3	N	2	—	4.8	14.8	3.4	53.8
9.5	23.6	I	2	N	1	—	4.8	47.2	3.4	21.4
8.5	9.8	I	4	K=H?	2	—	4.2	19.6	4.0	49.0
8.3	14.8	I	3	N	2	—	4.2	29.6	4.0	39.0
8.2	20.1	I?	2	N	2	—	4.1	40.2	4.1	28.4
7.8	21.5	I	2	N	2	—	3.9	43.0	4.3	25.6
5.6	22.5	III	1	K=H	2	—	2.8	45.0	5.4	23.6
5.1	17.9	I	3	N	1	—	2.6	35.8	5.6	32.8
4.5	5.8	I	3	N	1	—	2.2	11.6	6.0	57.0
~~4.3~~	~~13.9~~	~~I~~	~~3~~	~~N~~	~~2~~	~~—~~				
3.4	13.5	I	5	K=H	2	—	1.7	27.0	6.5	41.6
2.1	16.5	?	1	N	1	—	1.0	33.0	7.2	35.6

Plate 83.

18.0	10.4	I	4	N	1	—	9.0	20.8	46.2	39.1
18.5	17.0	I	4	N	1	—	9.2	34.0	46.0	29.5
18.5	21.4	I	6	N	5	—	9.2	42.8	46.0	17.1
17.4	13.8	I	4	N	2	—	8.7	27.6	46.5	32.3

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Dm.	R.A.			Dec.		Mag.	H	V
3297	14	54	24.6	+0	26.2	6.3	68.4	8.2
3249	14	42	38.4	+0	36.1	7.9	68.4	8.1
2972	14	38	9.7	+1	18.7	6.5	68.6	8.2
2941	14	22	29.2	+1	28.0	6.1	68.5	8.2
2981	14	39	44.3	+1	34.8	7.2	68.5	8.2
2855	14	35	52.9	+2	26.7	7.7	68.5	8.2
2862	14	38	56.2	+2	29.6	4.0	68.5	8.3
2865	14	40	6.3	+2	39.8	7.7	68.5	8.3
2905	14	55	35.2	+2	40.0	4.7	68.6	8.2
2844	14	30	9.8	+2	54.5	6.9	68.6	8.2
2966	14	53	45.2	+3	28.3	7.3	68.6	8.3
2896	14	21	15.1	+3	25.8	7.3	68.6	8.2
2956	14	49	1.2	+3	59.4	7.2	68.6	8.2
2914	14	38	59.6	+4	7.3	7.6	68.6	8.3
2885	14	28	19.3	+4	6.1	7.7	68.5	8.2
2879	14	25	39.8	+4	19.3	8.0	68.7	8.2
2886	14	23	30.6	+5	25.0	6.3	68.5	8.2
2903	14	32	52.8	+5	41.3	8.0	68.7	8.3
2981	14	56	56.5	+6	4.1	6.3	68.5	8.3
2946	14	41	42.5	+6	33.4	7.5	68.7	8.3
2830	14	35	39.5	+7	12.4	7.6	68.7	8.2

22 46 +46.1 3863 22 46 42.6 +46 1.4 9.2 67.5 55.0

22 27 +45.8 3983 22 27 28.8 +45 49.4 7.0 61.5 55.0

22 15 +45.8 3894 22 15 2.7 +45 47.9 .50 57.8 55.0

22 37 +46.4 3803 22 36 49.8 +46 24.0 6.5 64.4 55.1

Look upon that

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Plate 83.

V	Hδ	Type	No. Lines	K	Focus	Other Lines	V	H	V	H	
17.5	14.1	I	3	N	1	—	8.8	28.2	46.4	31.7	2
16.6	16.6	I	3	N	1	—	8.3	33.2	46.9	26.7	2
16.4	18.4	III	5	K=H	3	Reen?	8.2	36.8	47.0	23.1	2
16.0	10.5	I	3	N	1	—	8.0	21.0	47.2	38.9	2
15.7	11.7	I	3	N	1	—	7.8	23.4	47.4	36.5	2
16.0	12.2	I	3	N	1	—	8.0	24.4	47.2	35.5	2
15.5	7.5	I	4	N	1	—	7.8	15.0	47.4	44.9	2
15.2	18.6	I	3	N	1	—	7.6	37.2	47.6	22.7	2
15.0	21.1	I	4	N	1	—	7.5	42.2	47.7	17.7	2
14.3	9.2	I	7	N	5	—	7.2	18.4	48.0	41.5	2
14.4	10.3	I	3	N	1	—	7.2	20.6	48.0	39.3	2
14.3	11.1	I	6	N	2	—	7.2	22.2	48.0	37.7	2
14.1	17.8	I	3	N	1	—	7.0	35.6	48.2	24.3	2
14.0	20.0	I	4	N	1	—	7.0	40.0	48.2	19.9	2
13.8	213.2	I	4	N	1	—	6.9	46.4	48.3	13.5	2
13.3	14.1	I	4	N	1	—	6.6	28.2	48.6	31.7	2
13.5	15.2	I	4?	N	1	—	6.8	30.4	48.4	29.5	2
13.1	17.2	I	3	N	1	—	6.6	34.4	48.6	25.5	2
13.1	18.1	III	5	K=H	1	—	6.6	36.2	48.6	23.7	2
13.0	19.9	I	10	N	5	—	6.5	39.8	48.7	20.1	2
12.8	11.9	I	4	N	1	—	6.4	23.8	48.8	36.1	2
12.4	9.5	III	4	N	2	—	6.2	19.0	49.0	40.9	2
12.4	19.1	I	4	N	1	—	6.2	38.2	49.0	21.7	2
11.8	14.4	I	4	N	2	—	5.9	28.8	49.3	31.1	2
11.9	16.2	I	6	N	3	—	6.0	32.4	49.2	27.5	2
11.6	14.0	I	4	N	1	—	5.8	28.0	49.4	31.9	2
11.6	16.7	I	3	N	1	—	5.8	33.4	49.4	26.5	2
11.5	17.7	I	9	N	5	—	5.8	35.4	49.4	24.5	2

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	Dm.	R.a.	Dec.	Mag.	H.	V.	
22 37 +46.4	3803	22 36 49.8	+46 24.0	6.5	65.0	55.2	
22 28 +46.8	3727	22 28 34.2	+46 46.0	8.3	61.8	55.1	
22 23 +46.9	3719	22 23 30.1	+46 57.9	4.8	60.3	55.2	
22 47 +46.8	3870	22 47 34.8	+46 44.6	8.2	68.6	54.7	Look up on Chart
22 43 +47.2	3931	22 42 59.3	+47 9.9	8.1	66.4	55.0	
22 41 +47.1	3924	22 43 30.5	+47 2.9	7.7	65.9	55.0	
22 55 +47.2	4015	22 55 24.0	+47 10.4	7.0	70.4	55.0	
22 23 +46.9	3719	22 23 30.1	+46 57.9	4.8	60.7	54.6 ~~57.6~~	〃 〃 〃 〃
22 18 +47.4	3792	22 19 40.6	+47 22.7	8.8	61.9	54.9	〃 〃 〃 〃
22 50 +47.8	3985	22 50 40.2	+47 54.3	5.3	69.1	55.1	〃 〃 〃 〃
22 47 +47.8	3962	22 47 26.6	+47 48.4	8.0	~~70.0~~ 68.0	55.0	
22 45 +47.9	3944	22 44 54.6	+47 57.9	7.0	67.1	55.2	
22 22 +47.8	3809	22 22 31.0	+47 48.6	7.7	58.1	54.8	〃 〃 〃 〃
22 18 +47.9	3787	22 17 54.0	+47 54.6	8.3	57.9	54.9	〃 〃 〃 〃
22 9 +48.1	2655	22 8 48.3	+48 6.1	8.0	55.2	55.0	
22 36 +48.5	3809	22 36 9.6	+48 29.6	7.8	64.4	55.1	
22 33 +48.4	3793	22 32 49.5	+48 25.2	8.5	63.2	55.2	
22 27 +48.7	3763	22 26 53.3	+48 38.5	7.7	61.3	55.2	
22 24 +48.6	3747	22 24 8.9	+48 36.9	7.0	60.3	55.2	
22 18 +48.7	3715	22 18 38.6	+48 44.5	5.0	58.4	55.2	
22 43 +48.8	3848	22 42 48.4	+48 48.1	7.5	66.6	55.2	
22 50 +48.9	3887	22 50 6.4	+48 57.8	4.6	69.1	55.2	
22 21 +48.9	3732	22 21 1.3	+48 58.4	8.2	59.2	55.2	
22 35 +49.4	3919	22 35 17.2	+49 20.0	7.5	64.1	55.2	
22 30 +49.3	3903	22 29 53.5	+49 19.4	6.3	62.3	55.3	
22 36 +49.4	3925	22 36 36.4	+49 22.9	8.0	64.6	55.2	
22 28 +49.5	3895	22 28 21.0	+49 28.2	8.1	61.8	55.3	
22 25 +49.5	3875	22 25 19.3	+49 32.2	4.0	60.7	55.3	

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Plate 83.

V	H.	Type	Tro. Lines	K	Focus	Other Lines	V	H	V	H	
11.8	18.2	I	4	N	1	—	5.9	36.4	49.3	23.5	22
11.6	7.1	III	3	K=H	3	—	5.8	14.2	49.4	45.7	22
11.1	10.7	I	6	N	3	—	5.6	21.4	49.6	38.5	22
10.8	9.7	I	3	N	1	—	5.4	19.4	49.8	40.5	22
10.7	11.6	III	2	K=H	2	—	5.4	23.2	49.8	36.7	22
10.6	14.0	I	2	N	1	—	5.3	28.0	49.9	31.9	22
11.2	17.7	I	5	N	1	—	5.6	35.4	49.6	24.5	22
10.9	17.7	I	3	N	1	—	5.4	35.4	49.8	24.5	22
11.0	19.5	I	5	N	2	—	5.5	39.0	49.7	20.9	22
11.0	21.2	I	3	N	1	—	5.5	42.4	49.7	17.5	22
11.1	23.9	I	3	N	1	—	5.6	47.8	49.6	12.1	22
10.9	22.7	I	3	N	1	—	5.4	45.4	49.8	14.5	22
10.0	11.9	I	4	K=H	2	—	5.0	23.8	50.2	36.1	22
10.4	17.6	I	4	N	1	—	5.2	35.2	50.0	24.7	22
9.7	11.5	I	3	N	1	—	4.8	23.0	50.4	36.9	22
9.8	15.0	I	5	K=H	2	—	4.9	30.0	50.3	29.9	22
9.9	15.7	I	2	N	1	—	5.0	31.4	50.2	28.5	22
9.4	15.7	I	2	N	1	—	4.7	31.4	50.5	28.5	22
9.8	15.8	I	4	N	1	—	4.9	31.6	50.3	28.3	22
9.5	17.5	I	3	N	1	—	4.8	35.0	50.4	24.9	22
9.4	18.5	I	4	N	1	—	4.7	37.0	50.5	22.9	22
9.6	20.0	I	4	N	2	—	4.8	40.0	50.4	19.9	22
9.9	20.9	III	1	K=H	1	—	5.0	41.8	50.2	18.1	22
10.0	23.9	I	6	N	4	—	5.0	47.8	50.2	12.1	22
9.5	6.5	I	4	N	1	—	4.8	13.0	50.4	46.9	23
9.0	8.9	I	3	N	1	—	4.5	17.8	50.7	42.1	22
8.9	8.7	I	3	N	1	—	4.4	17.4	50.8	42.5	22
8.7	9.0	I	4	N	1	—	4.4	18.0	50.8	41.9	22

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	Dm.	R.A.	Dec.	Mag.	H.	V.	
22 23 + 49.1	3866	22 23 14.0	+ 49 5.8	8.4	59.6	55.0	
22 58 + 49.2	4028	22 57 41.5	+ 49 16.0	4.8	71.9	55.1	
22 46 + 49.6	3962	22 46 36.4	+ 49 38.8	6.7	68.0	55.2	
22 50 + 49.8	3991	22 50 0.3	+ 49 45.8	8.2	69.4	55.2	
22 44 + 49.8	3954	22 43 57.3	+ 49 54.9	6.7	67.2	55.3	
22 37 + 50.0	3807	22 37 59.0	+ 50 3.1	8.2	66.0	55.4	Look up on Chart.
22 25 + 49.5	3875	22 25 19.3	+ 49 32.2	4.0	60.7	55.1	
22 25 + 49.6	3874	22 25 10.3	+ 49 37.6	8.0	60.6	55.0	
22 19 + 49.6	3841	22 19 32.5	+ 49 40.0	7.6	58.5	55.2	
22 14 + 49.5	3810	22 13 12.3	+ 49 30.4	8.5	55.6	55.0	" " " "
22 6 + 49.5	3767	22 6 18.0	+ 49 28.7	7.2	54.1	55.1	
22 10 + 49.7	3792	22 9 40.3	+ 49 41.0	8.0	55.1	55.1	
22 43 + 50.2	3836	22 43 7.7	+ 50 12.9	7.0	66.9	55.2	
22 25 + 50.2	3741	22 25 21.3	+ 50 7.5	7.6	60.6	55.3	
22 44 + 50.3	3846	22 44 29.0	+ 50 20.9	8.3	67.5	55.1	
22 33 + 50.4	3780	22 33 31.0	+ 50 24.0	7.5	63.5	55.3	
22 31 + 50.2	3769	22 31 16.8	+ 50 15.9	8.5	62.7	55.3	
22 31 + 50.5	3768	22 31 16.6	+ 50 32.1	8.5	62.7	55.2	
22 31 + 50.4	3767	22 30 58.0	+ 50 21.9	8.0	62.6	55.3	
22 26 + 50.5	3743	22 25 45.7	+ 50 29.9	8.0	60.8	55.3	
22 22 + 50.5	3730	22 22 36.3	+ 50 34.1	7.7	59.6	55.3	
22 18 + 50.5	3706	22 19 16.3	+ 50 30.8	7.0	59.3	55.3	" " " "
22 15 + 50.2	3673	22 14 55.7	+ 50 15.1	6.5	56.7	55.3	
22 5 + 50.1	3602	22 5 32.9	+ 50 6.6	6.0	53.3	55.1	
23 0 + 50.3	3946	23 0 5.7	+ 50 17.8	7.9	13.1	55.1	
22 51 + 50.6	3897	22 52 39.4	+ 50 38.5	8.0	70.5	55.1	
22 52 + 50.7	3900	22 53 14.0	+ 50 44.4	8.2	70.6	55.1	" " " "
22 52 + 50.8	3894	22 52 17.0	+ 50 50.5	8.0	70.3	55.2	

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Plate 3

V	Ib	Type	Nro. Lines	K	Focus	Other Lines.	V	H	V	H	
9.1	13.1	I	3	N	1	—	4.6	26.2	50.6	33.7	22
9.1	13.5	I	4	K=H	1	—	4.6	27.0	50.6	32.9	22
9.0	14.7	I	4	N	2	—	4.5	29.4	50.7	30.5	23
9.0	15.6	I	10	N	5	—	4.5	31.2	50.7	28.7	22
9.0	18.2	I	4	N	1	—	4.5	36.2	50.7	23.7	22
9.0	18.8	I	5	N	1	—	4.5	37.6	50.7	22.3	22
8.9	18.6	I	4	N	1	—	4.4	37.2	50.8	22.7	22
9.1	21.8	I	4	N	1	—	4.6	43.6	50.6	16.3	22
8.8	22.6	I	4	N	1	—	4.4	45.2	50.8	14.7	22
8.0	11.5	II	2	K=H	1	—	4.0	23.0	51.2	36.9	22
8.2	12.4	I	4	N	2	—	4.1	24.8	51.1	35.1	22
8.0	13.0	I	4	N	1	—	4.0	26.0	51.2	33.9	22
7.5	11.4	I	4	N	1	—	3.8	22.8	51.4	37.1	22
8.2	20.9	I?	4	N	2	—	4.1	41.8	51.1	18.1	22
7.6	8.5	I	3	N	1	—	3.8	17.0	51.4	42.9	
7.7	19.9	III	3	K=H	4	—	3.8	39.8	51.4	20.1	22
7.5	9.0	I	5	N	2	—	3.8	18.0	51.4	41.9	22
6.8	9.0	III	1	K=H	1	—	3.4	18.0	51.8	41.9	22
6.7	10.7	I	3	N	1	—	3.4	21.4	51.8	38.5	22
7.2	13.4	III	1	K=H	1	—	3.6	26.8	51.6	33.1	22
7.4	17.9	III	3	N	1	—	3.7	35.8	51.5	24.1	22
7.2	19.2	I	4	N	1	—	3.6	38.4	51.6	21.5	22
7.0	22.9	I	3	N	2	—	3.5	45.8	51.7	14.1	22
6.2	6.6	III	1	N	1	—	3.1	13.2	52.1	46.7	23
6.1	11.3	I	5	N	2	—	3.0	22.6	52.2	37.6	22
6.3	20.8	I	3	N	1	—	3.2	41.6	52.0	18.3	22
6.7	14.1	I	4	N	1	—	3.4	28.2	51.8	31.7	23
6.6	19.4	I	3	N	1	—	3.3	38.8	51.9	21.1	22

H 18.5?

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	No.	R.A.	Dec.	Mag.	H	V	
22 39 + 50.7	3817	22 39 17.1	+ 50 43.5	8.0	65.5	55.3	
22 38 + 50.6	3809	22 38 12.6	+ 50 41.2	7.5	65.2	55.3	
22 34 + 50.8	3789	22 34 17.6	+ 50 47.8	7.8	63.7	55.3	
22 31 + 50.8	3770	22 31 27.0	+ 50 48.2	5.5	62.6	55.3	
22 23 + 50.8	3726	22 22 6.2	+ 50 50.4	7.0	58.3	55.3	Look upon Chart.
22 22 + 50.8	3725	22 21 55.5	+ 50 45.4	7.3	59.5	55.3	
22 24 + 50.9	3734	22 23 13.6	+ 50 46.1	7.5	60.4	55.2	
22 12 + 50.6	3651	22 11 59.5	+ 50 35.8	7.8	55.6	55.2	
22 9 + 50.7	3627	22 9 26.2	+ 50 46.0	7.5	54.6	55.2	
22 45 + 51.3	3485	22 44 34.4	+ 51 16.7	7.2	67.6	55.3	
22 42 + 51.2	3476	22 42 54.3	+ 51 11.4	8.6	67.7	55.3	Look up on Chart.
22 40 + 51.4	3464	22 40 2.3	+ 51 20.3	8.0	66.0	55.3	
22 45 + 51.5	3486	22 44 55.5	+ 51 30.1	7.3	67.7	55.3	
22 15 + 51.1	3341	22 14 43.7	+ 51 7.9	7.5	56.5	55.2	
							Look up on plate.
22 18 + 51.5	3358	22 17 51.7	+ 51 30.1	4.7	57.7	55.3	
22 53 + 51.5	3515	22 52 55.0	+ 51 32.6	7.0	70.9	55.3	
22 53 + 51.9	3514	22 52 53.8	+ 51 51.8	6.0	70.9	55.3	
22 47 + 51.9	3499	22 47 23.8	+ 51 55.1	8.5	68.8	55.3	
22 38 + 51.8	3460	22 38 48.3	+ 51 45.1	7.0	65.6	55.4	
22 24 + 51.6	3396	22 24 7.0	+ 51 40.0	6.7	59.9	55.4	
22 20 + 51.7	3372	22 19 59.2	+ 51 42.0	8.2	58.4	55.3	
22 8 + 51.8	3298	22 8 52.4	+ 51 47.5	7.3	54.7	55.3	" " " Chart.
23 1 + 52.0	3371	23 0 45.5	+ 52 2.0	5.5	14.0	55.1	
22 46 + 52.3	3311	22 45 37.3	+ 52 15.6	7.0	68.2	55.3	
22 14 + 52.1	3181	22 14 9.1	+ 52 9.0	7.5	55.8	55.4	
23 36 + 52.0	3671	22 36 19.9	+ 52 2.7	8.0	64.5	55.4	
22 19 + 52.0	3201	22 19 0.2	+ 52 0.4	8.2	57.8	55.3	

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1886phae.proj..831F

May 28. 1886.

Plate 83.

V	H6.	Type	Nº Lines	K	Focus	Other Lines.	V	H	V	H	H
5.5	12.6	I	6	K=.7H	2	—	2.8	23.2	52.4	32.7	36.7
5.6	22.8	I	4	N	1	—	2.8	45.6	52.4	18.3	14.3
5.3	17.6	I	4	K=H	1	—	2.6	35.2	52.6	20.7	24.7
4.9	17.1	I	3	N	1	—	2.4	34.2	52.8	21.7	25.7
4.7	12.7	I	3	N	1	—	2.4	25.4	52.8	30.5	34.5
4.5	14.1	III	2	N	1	—	2.2	28.2	53.0	27.7	31.7
4.6	14.7	III	3	K=H	3	—	2.3	29.4	52.9	26.5	30.5
4.4	17.1	III	1	K=H	2	—	2.2	34.2	53.0	21.7	25.7
4.1	16.5	I	4	N	2	—	2.0	33.0	53.2	22.9	26.9
4.5	18.9	I	4	K=H	2	—	2.2	37.8	53.0	18.1	22.1
3.8	17.9	I	5	N	3	—	1.9	35.8	53.3	20.1	24.1
4.0	18.8	I	4	N	1	—	2.0	37.6	53.2	18.3	22.3
3.8	14.1	I	5	N	2	—	1.9	28.2	53.3	27.7	31.7
3.6	12.2	I	7	N	4	—	1.8	24.4	53.4	31.5	35.5
3.6	14.3	I	4	N	1	—	1.8	28.6	53.4	27.3	31.3
3.6	15.7	I	5	N	2	—	1.8	31.4	53.4	24.5	28.5
2.7	12.0	I	4	N	1	—	1.4	24.0	53.8	31.9	35.9
2.9	12.7	I	4	N	1	—	1.4	25.4	53.8	30.5	34.5
2.7	12.9	I	6	N	2	—	1.4	25.8	53.8	30.1	34.1
1.7	8.3	I	4	N	3	—	0.8	16.6	54.4	37.3	43.3
0.8	12.0	III	1	K=H	2	—	0.4	24.0	54.8	31.9	35.9
0.4	15.9	I	6	K=.2H	2	—	0.2	31.8	55.0	24.1	28.1
1.0	21.6	I	4	N	1	—	0.5	43.2	54.7	12.7	16.7
2.9	23.4	I	3	N	1	—	1.4	46.8	53.8	9.1	13.1
3	30 2.6	15.1	I	3	N	1	—	1.3	30.2	53.9	25.7	29.7

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	Dm.	R.a.	Dec.	Mag.	H.	V.	
22 41 + 52.6	3295	22 41 17.3	+ 52 37.3	7.0	64.5	55.4	
22 8 + 52.5	3149	22 8 25.1	+ 52 33.1	7.6	54.0	55.4	
22 25 + 52.7	3229	22 24 51.4	+ 52 47.1	7.8	60.1	55.4	
22 26 + 52.9	3236	22 26 28.4	+ 52 55.5	8.7	60.7	55.3	
22 41 + 53.0	2984	22 40 53.0	+ 53 2.2	8.1	66.3	55.4	
22 36 + 53.2	2960	22 36 25.9	+ 53 8.8	6.0	64.6	55.3	
22 34 + 53.1	2950	34 34 25.5	+ 53 5.5	6.0	63.8	55.4	
22 26 + 53.3	2910	22 26 34.3	+ 53 16.8	6.5	60.8	55.5	
22 28 + 53.4	2918	22 28 24.2	+ 53 19.9	7.3	~~58.4~~ 61.4	55.3	Look up on Chart
22 20 + 53.2	2876	22 20 14.4	+ 53 12.0	7.1	58.0	55.4	
22 23 + 53.5	2897	22 23 41.8	+ 53 30.1	6.5	59.5	55.4	
22 21 + 53.4	2882	22 20 48.5	+ 53 21.8	7.6	58.4	55.4	
22 36 + 53.5	2961	22 36 29.4	+ 53 29.4	7.3	64.7	55.4	
22 42 + 53.6	2993	22 42 47.4	+ 53 39.2	6.0	67.2	55.5	" " " "
22 35 + 53.6	2958	22 35 41.4	+ 53 37.6	8.0	64.3	55.4	
22 31 + 53.7	2932	22 30 59.8	+ 53 40.1	7.3	62.4	55.5	
22 43 + 54.1	2867	22 43 48.9	+ 54 3	8.0	67.8	55.4	
	~~3001~~	~~22 44 6.1~~	~~+ 53 9.7~~	~~8.0~~	~~68.1~~		" " " "
22 41 + 53.9 +	2987	22 41 13.4	+ 53 59.3	7.6	66.6	55.4	
22 41 + 54.1	2856	22 40 34.3	+ 54 6.6	7.1	66.4	55.5	
22 56 + 54.5	2900	22 56 30.6	+ 54 27.8	6.5	73.1	55.3	
22 43 + 55.1	2820	22 43 48.4	+ 55 7.9	5.9	67.8	55.5	
22 30 + 55.3	2779	22 30 11.6	+ 55 19.2	6.8	62.0	55.5	
22 10 + 55.1	2709	22 10 10.6	+ 55 5.9	7.8	53.4	55.6	
22 5 + 53.8	2800	22 4 52.3	+ 53 50.7	7.7	51.7	55.2	
22 33 + 54.3	2830	22 33 37.7	+ 54 17.5	8.0	63.8	55.6	V

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June 4. 1886

Plate 189.

	V	No.	Type	No. Lines	K	Focus	Other Lines.	V	H	V	H
10	22.9	16.0	I	4	N	1	—	11.4	32.0	8.0	62.8
	22.0	14.8	II	6	K=H	4	Reen.	11.0	29.6	8.4	65.2
	21.3	11.9	?	1	N	2	—	10.6	23.8	8.8	71.0
	19.2	15.8	I	4	N	2	—	9.6	31.6	9.8	63.2
	18.9	22.5	I	4	N	2	—	9.4	45.0	0.0	49.8
	18.1	14.1	?	1	N	1	—	9.0	28.2	0.4	66.6
	17.7	9.3	III	1	N	2	—	8.8	18.6	0.6	76.2
	17.5	20.4	I	3	N	2	—	8.8	40.8	0.6	54.0
	16.7	11.1	III	1	K=H	2	—	8.4	22.2	1.0	72.6
	16.5	12.5	I	5	N	2	—	8.2	25.0	1.2	69.8
	16.7	16.2	I	4	K=H	2	—	8.4	32.4	1.0	62.4
	17.2	21.5	I	3	N	1	—	8.6	43.0	0.8	51.8
	16.0	18.8	III	3	N	2	—	8.0	37.6	1.4	57.2
	16.0	22.5	I	3	N	1	—	8.0	45.0	1.4	49.8
	15.8	23.4	I	5	N	3	—	7.9	46.8	1.6	48.0
	15.0	15.7	III	2	K=H	2	—	7.5	31.4	1.9	63.4
	15.0	7.5	I	4	N	2	—	7.5	15.0	1.9	79.8
	14.3	14.7	I	4	N	2	—	7.2	29.4	2.2	65.4
	14.2	17.7	I	4	N	2	—	7.1	35.4	2.3	59.4
	13.5	9.2	I	4	N	2	—	6.8	18.4	2.6	76.4
	13.6	16.2	I	4	N	2	—	6.8	32.4	2.6	62.4
	13.3	16.5	I	5	N	2	—	6.6	33.0	2.8	61.8
	12.9	17.3	I	4	N	2	—	6.4	34.6	3.0	60.2
	13.5	20.2	I	4	N	2	—	6.8	40.4	2.6	54.4
	13.2	18.0	I ?	3	N	1	—	6.6	36.0	2.8	58.8
	13.0	6.6	II	2	K=H	2	—	6.5	13.2	2.9	81.6
	13.0	11.5	?	7	N	5	Reen	6.5	23.0	2.9	718
	12.9	23.6	I	3	N	2	—	6.4	47.2	3.0	47.6

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Dm.	R. A.			Dec.		Mag.	H	V	
563	3	2	57.2	− 2	14.7	7.7	35.0	19.2	
457	3	5	23.2	− 1	43.6	5.3	35.0	19.3	
469	3	10	57.2	− 1	26.3	6.2	34.8	19.2	
498	3	3	10.0	− 0	20.0	7.3	34.8	19.3	
460	2	49	44.6	− 0	8.3	7.5	94.7	9.3	
542	3	6	37.3	+ 0	13.1	8.2	34.8	9.2	
581	3	16	11.2	+ 0	24.3	7.2	34.8	9.2	
499	2	53	58.3	+ 0	34.8	8.0	94.8	9.4	Took up on Chart
567	3	12	34.8	+ 0	57.0	7.6	34.8	9.4	
574	3	9	43.8	+ 1	0.5	8.0	34.7	9.2	" " " "
531	3	2	21.4	+ 0	56.2	8.1	34.8	9.3	" " " "
490	2	51	48.8	+ 0	39.7	8.5	94.8	9.3	
534	2	57	9.8	+ 1	19.0	6.5	94.8	9.3	
515	2	49	44.8	+ 1	19.1	7.8	94.7	9.3	
512	2	48	3.1	+ 1	27.0	7.8	94.9	9.3	
561	3	3	25.3	+ 1	45.5	7.5	34.8	9.3	
597	3	19	44.5	+ 1	46.2	7.5	34.7	9.3	
498	3	5	18.1	+ 2	8.9	8.3	34.7	9.3	
478	2	59	16.7	+ 2	8.6	7.8	94.7	9.2	
535	3	16	21.2	+ 2	31.6	8.0	34.7	9.3	
491	3	2	24.1	+ 2	29.9	7.7	34.8	9.3	
488	3	1	41.9	+ 2	41.5	8.2	34.7	9.3	
482	3	0	14.6	+ 2	50.6	8.1	34.8	9.2	
465	2	54	18.1	+ 2	34.1	8.5	94.7	9.4	
477	2	58	53.5	+ 2	43.6	8.0	94.9	9.3	
552	3	21	31.2	+ 2	45.0	6.5	34.7	9.3	
518	3	11	46.3	+ 2	50.9	5.3	34.8	9.3	
450	2	47	35.3	+ 2	54.3	7.5	94.8	9.3	

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June 4, 1886.

Plate 189.

V.	H.	Type	No. Lines	K	Found	Other Lines.	V	H	V	H
12.5	10.6	III	3	K=H	3	—	6.2	21.2	3.2	73.6
12.4	12.3	I	3	N	1	—	6.2	24.6	3.2	70.2
12.2	18.0	I	4	N	2	—	6.1	36.0	3.3	58.8
12.5	22.6	I	3	N	1	—	6.2	45.2	3.2	49.6
11.8	20.0	?	6	N	5	—	5.9	40.0	3.5	54.8
11.6	23.1	I	4	N	1	—	5.8	46.2	3.6	48.6
10.8	6.8	I	3	N	2	—	5.4	13.6	4.0	81.2
11.1	13.7	I	4	N	1	—	5.6	27.4	3.8	67.4
11.1	20.0	I	9	N	5	—	5.6	40.0	3.8	54.8
10.0	9.3	II	3	K=H	3	—	5.0	18.6	4.4	76.2
9.8	12.1	I	4	N	1	—	4.9	24.2	4.5	70.6
9.5	19.8	I	6	N	3	—	4.8	39.6	4.6	55.2
9.1	20.2	III	3	N	2	—	4.6	40.4	4.8	54.4
9.7	24.1	I	3	N	1	—	4.8	48.2	4.6	46.6
8.6	17.7	I	3	N	1	—	4.3	35.4	5.1	59.4
7.8	8.3	I	3	N	2	—	3.9	16.6	5.5	78.2
7.6	19.3	I	4	K=H	2	—	3.8	38.6	5.6	56.2
7.5	19.4	I	6	K=H	3	—	3.8	38.8	5.6	56.0
7.2	5.8	III	2	N	3	—	3.6	11.6	5.8	83.2
6.6	15.0	?	8	?	3	—	3.3	30.0	6.1	64.8
6.6	21.5	I	3	N	1	—	3.3	43.0	6.1	51.8
6.3	12.6	I	6	K=H?	3	—	3.2	25.2	6.2	69.6
5.5	17.2	I	4	N	1	—	2.8	34.4	6.6	60.4
5.5	19.2	I	3	N	1	—	2.8	38.4	6.6	56.4
5.0	16.6	II?	4	K=H	2	—	2.5	33.2	6.9	61.6
4.6	17.0	I	5	N	2	—	2.3	34.0	7.1	60.8
3.6	15.4	I	4	N	1	—	1.8	30.8	7.6	64.0
3.2	23.1	I	3	N	2	—	1.6	46.2	7.8	48.6

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DM.	R A			Dec.		Mag.	H	V	
461	3	13	33.8	+3	9.2	6.3	34.8	9.4	
451	3	10	11.3	+3	9.1	8.2	34.8	9.4	
431	2	58	48.5	+3	14.4	8.0	94.8	9.3	look up on Chart
411	2	49	37.0	+3	5.4	7.8	94.8	9.3	
419	2	54	43.8	+3	31.1	2.5	94.7	9.4	
407	2	48	40.0	+3	26.1	8.2	94.9	9.2	
481	3	21	7.5	+3	51.9	8.2	34.7	9.3	" " " "
447	3	7	20.7	+3	45.5	8.6	34.7	9.4	
420	2	54	47.7	+3	46.5	7.3	94.8	9.4	Is this a planet?
532	3	16	2.8	+4	21.7	7.7	34.6	9.4	look up on Chart
522	3	10	30.1	+4	26.4	8.3	34.7	9.3	
486	2	55	2.6	+4	37.2	8.0	94.6	9.4	" " " "
485	2	54	15.2	+4	46.4	7.0	94.7	9.4	
458	2	46	38.3	+4	27.5	7.8	94.8	9.3	
451	2	59	11.9	+5	5.0	8.5	94.6	9.4	
590	3	18	3.8	+5	25.8	8.0	34.7	9.3	look up on Chart
444	2	56	8.8	+5	33.5	8.0	94.7	9.4	" " " "
443	2	55	49.0	+5	39.7	7.2	94.6	9.5	look up on Chart
502	3	23	4.2	+5	40.8	6.7	34.7	9.3	
496	3	4	45.8	+6	6.7	6.4	34.8	9.4	
460	2	51	44.0	+6	4.9	7.8	94.7	9.4	
508	3	9	27.0	+6	16.8	7.5	34.6	9.5	" " " "
483	3	0	14.7	+6	41.2	8.0	34.6	9.5	" " " "
470	2	56	16.3	+6	42.9	8.3	94.7	9.5	" " " "
486	3	1	28.0	+6	54.5	8.3	34.7	9.4	" " " "
477	3	0	45.7	+7	5.2	7.7	34.8	10.2	
481	3	3	57.4	+7	34.6	8.5	34.7	9.4	
450	2	48	30.7	+7	47.9	6.8	94.7	9.4	

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June 4. 1886.

Plate 189.

		V.	H.	Type	No Lines	K	Focus	Other Lines.	V	H	V	H
		2.9	10.8	I	3	N	1	—	1.4	21.6	8.0	73.2
		2.5	11.3	I	3	N	2	—	1.2	22.6	8.2	72.2
		3.0	16.9	III?	3	N	2	—	1.5	33.8	7.9	61.0
11	0	2.2	21.4	I?	1	N	5	—	1.1	42.8	8.3	52.0

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Dm.		RA		Dec.	Mag.	H	V
500	3	13	15.3	+7 56.0	8.3	34.9	9.3
495	3	12	8.9	+8 11.3	7.7	34.7	9.4
478	3	0	53.8	+7 54.2	6.6	34.7	9.3
455	2	51	57.1	+8 19.7	4.8	94.8	9.4 √

look up on chart.

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June 7. 1886.

Plate 396

9 45 V.	H.	Type	Lines	K	Focus	Other Lines.	V	H	V	H
22.7	8.2	I	5	N	2	—	11.4	16.4	14.2	69.1
22.9	20.5	I	5	N	3	—	11.4	41.0	14.2	44.5
22.6	11.0	I	8	N	5	—	11.3	22.0	14.3	63.5
22.7	9.4	III ?	3	K=H	3	—	11.4	18.8	14.2	66.7
22.7	22.8	III ?	1	K=H	3	—	11.4	45.6	14.2	39.9
22.1	8.0	I	5	N	2	—	11.0	16.0	14.6	69.5
22.0	9.9	I	3	N	1	—	11.0	19.8	14.6	65.7
21.7	9.7	I	5	N	1	—	10.8	19.4	14.8	66.1
22.1	21.3	I	3	N	1	—	11.0	42.6	14.6	42.9
22.3	23.0	I	5	N	3	—	11.2	46.0	14.4	39.5
21.3	12.0	I	4	N	1	—	10.6	24.0	15.0	61.5
21.6	13.1	I	9	N	5	—	10.8	26.2	14.8	59.3
20.1	19.4	I	3	N	1	—	10.0	38.8	15.6	46.7
19.3	8.5	I	3	N	1	—	9.6	17.0	16.0	68.5
18.8	9.4	I	7	N	5	—	9.4	18.8	16.2	66.7
18.9	11.0	I	8	N	5	—	9.4	22.0	16.2	63.5
19.7	23.2	I	4	N	3	—	9.8	46.4	15.8	39.1
19.0	24.1	I	4	N	1	—	9.5	48.2	16.1	37.3
18.6	18.3	I	5	N	2	—	9.3	36.6	16.3	48.9
18.0	17.4	I	4	N	1	—	9.0	34.8	16.6	50.7
17.7	13.3	I	4	N	1	—	8.8	26.6	16.8	58.9
17.9	14.5	I	4	N	1	—	9.0	29.0	16.6	56.5
17.6	9.6	I	4	N	1	—	~~9.8~~ 8.8	19.2	~~15.8~~ 16.8	66.3
17.3	16.3	I	4	N	1	—	~~8.6~~ 8.6	32.6	~~16.0~~ 17.0	52.9
16.4	7.7	I	5	N	3	—	8.2	15.4	17.4	70.1
16.5	11.2	I	4	N	2	—	8.2	22.4	17.4	63.1
16.4	15.9	I	3	N	1	—	8.2	31.8	17.4	53.7
16.5	22.3	I	4	N	2	—	8.2	44.6	17.4	40.9

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DM.	RA	Dec.	Mag.	H	V	
1233	6 9 19.3	+14 6.2	7.0	25.7	25.5	
1060	5 44 7.5	+14 7.1	6.0	85.1	25.5	
1187	6 3 42.3	+14 14.4	4.8	25.7	25.5	
1173	6 6 55.2	+13 53.3	6.3	25.7	25.3	Look up on Chart
979	5 39 30.4	+13 51.8	5.3	85.1	25.2	" " " "
1235	6 9 50.3	+14 25.8	6.0	25.8	25.4	
1210	6 5 59.4	+14 28.5	8.6	25.8	25.5	
1213	6 6 26.5	+14 37.8	7.7	25.8	25.4	
1047	5 42 33.6	+14 24.2	7.5	85.2	25.4	
1025	5 38 57.3	+14 26.2	6.0	85.0	25.6	
1170	6 1 37.2	+14 52.1	8.0	25.6	25.5	
1152	5 59 17.9	+14 46.9	4.6	85.5	25.6	
976	5 46 18.7	+15 28.8	8.4	85.1	25.5	
1136	6 8 18.0	+15 50.8	8.7	25.3	25.4	" " " "
1060	6 7 3.6	+16 10.5	5.7	25.9	25.6	
1035	6 3 41.9	+16 9.3	5.8	25.7	25.6	
926	5 38 25.5	+15 46.0	6.2	84.8	25.6	" " " "
855	5 36 31.5	+16 1.0	6.9	84.7	25.5	" " " "
936	5 48 28.5	+16 20.0	7.5	85.1	25.6	
940	5 50 16.8	+16 34.7	7.3	85.1	25.6	
1004	5 58 53.6	+16 44.1	8.2	85.5	25.5	
989	5 56 28.0	+16 39.6	7.8	85.5	25.7	" " " "
1053	6 6 26.9	+16 45.3	8.7	25.6	25.6	
1469	6 52 16.8	+17 9.5	7.8	24.9	25.8	" " " "
1203	6 10 36.3	+17 22.5	6.5	26.0	25.6	
1154	6 3 12.9	+17 24.3	7.3	25.6	25.6	
1095	5 53 22.6	+17 25.3	8.4	85.2	25.6	" " " "
1019	5 41 2.5	+17 27.8	8.8	85.6	25.7	" " " "

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V	H.	Type	No. Lines	K	Focus	Other Lines.	V	H	V	H
15.9	22.8	I	6	?	3	—	8.4	45.6	17.2	39.9
15.4	9.9	I	6	K=.5H	3	—	7.7	19.8	17.9	65.7
15.6	11.1	I	4	N	1	—	7.8	22.2	17.8	63.3
15.3	21.3	I	4	N	1	—	7.6	42.6	18.0	42.9
14.8	22.1	I	4	N	1	—	7.4	44.2	18.2	41.3
14.9	15.1	I	4	N	1	—	7.4	30.2	18.2	55.3
14.7	15.0	I	4	N	1	—	7.4	30.2	18.2	55.3
14.9	11.6	I?	2	N	1	—	7.4	23.2	18.2	62.3
13.8	10.4	I	6	N	3	—	6.9	20.8	18.7	64.7
13.6	13.3	I	3	N	1	—	6.8	26.6	18.8	58.9
13.7	17.0	I	4	N	2	—	6.8	34.0	18.8	51.5
13.6	17.2	I	4	N	1	—	6.8	34.4	18.8	51.1
13.5	19.5	I	3	N	1	—	6.8	39.0	18.8	46.5
13.5	17.9	I	3	N	1	—	6.8	35.8	18.8	49.7
13.6	23.5	I	4	N	1	—	6.8	47.0	18.8	38.5
13.1	10.6	I	4	N	2	—	6.6	21.2	19.0	64.3
12.9	9.8	I	6	K=H	4	—	6.4	19.6	19.2	65.9
12.6	13.8	I	3	N	1	—	6.3	27.6	19.3	57.9
13.6	16.2	I	4	N	2	—	6.8	32.4	18.8	53.1
12.5	16.3	I	5	N	2	—	6.2	32.6	19.4	52.9
12.9	18.2	I	4	N	1	—	6.4	36.4	19.2	49.1
12.6	18.7	I	4	N	1	—	6.3	37.4	19.3	48.1
12.5	20.7	I	5	N	2	—	6.2	41.4	19.4	44.1
12.1	8.4	I	5	N	1	—	6.0	16.8	19.6	68.7
12.0	15.2	I	8	N	5	—	6.0	30.4	19.6	55.1
12.0	19.2	I	7	N	4	—	6.0	38.4	19.6	47.1
11.6	11.1	I	6	N	3	—	5.8	22.2	19.8	63.3
11.6	20.4	I	4	N	3	—	5.8	40.8	19.8	44.7
11.5	16.7	I	3	N	1	—	5.8	33.4	19.8	52.1

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Dm.	R a	Dec.	Mag.	H	V	
1013	5 40 21.6	+17 22.5	7.8	85.6	25.8	Look up on Globe
1182	6 6 0.9	+17 56.7	6.5	25.8	25.6	
1058	6 3 30.9	+17 47.7	8.2	25.8	25.6	
1031	5 42 39.4	+17 47.9	8.4	85.2	25.4	" " " "
970	5 40 15.6	+18 11.3	7.3	84.5	25.6	" " " "
1069	5 54 59.2	+18 10.3	8.2	85.2	25.6	
1070	5 55 18.4	+18 15.8	8.0	85.5	25.7	
1112	6 2 32.6	+18 9.4	6.8	25.7	25.6	
1129	6 5 2.3	+18 43.0	6.5	25.8	25.6	
1098	5 59 6.9	+18 55.6	8.0	85.7	25.7	
1046	5 51 0.8	+18 50.7	8.0	85.0	25.6	" " " "
1040	5 50 23.4	+18 48.9	7.5	84.8	25.6	
1010	5 45 51.4	+18 52.9	8.0	84.9	25.7	
1036	5 49 11.9	+18 57.1	8.6	85.0	25.8	" " " "
966	5 38 56.4	+18 40.4	8.3	85.9	25.5	
1259	6 4 39.5	+19 2.5	7.8	25.9	25.6	" " " "
1270	6 6 19.7	+19 12.3	6.2	25.9	25.6	" " " "
1203	5 57 51.0	+19 14.8	8.5	85.4	25.5	
1056	5 52 48.9	+18 57.1	7.6	85.2	25.8	" " " "
1171	5 52 37.2	+19 24.7	7.8	85.2	25.6	" " " "
1145	5 48 37.9	+19 9.8	8.2	85.1	25.6	
1136	5 47 30.7	+19 20.2	8.3	85.0	25.6	
1106	5 43 18.7	+19 28.6	6.8	84.7	25.7	
1291	6 9 17.2	+19 30.7	7.6	26.1	25.5	
1286	5 54 52.5	+19 41.3	5.6	84.9	25.7	" " " "
1126	5 46 22.0	+19 43.6	6.3	84.8	25.7	" " " "
1253	6 3 27.4	+19 49.6	6.0	25.7	25.6	" " " "
1156	5 44 42.3	+20 15.8	7.2	85.5	26.1	" " " "
1170	5 52 19.4	+19 47.8	8.7	85.7	25.6	" " " "

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V.	H.	Type	No. Lines	K	Focus	Other Lines.	V	H	V	H
11.1	15.0	?	5	N	5	—	5.6	30.0	20.0	55.5
11.0	19.4	I?	11	K=H	5	—	5.5	38.8	20.1	46.7
10.8	19.9	I	6	N	2	—	5.4	39.8	20.2	45.7
10.1	15.3	II?	2	K=H	1	—	5.0	30.6	20.6	54.9
9.8	20.1	I	5	N	1	—	4.9	40.2	20.7	45.3
10.0	20.4	I	4	N	1	—	5.0	40.8	20.6	44.7
10.1	24.0	I	3	N	1	—	5.0	48.0	20.6	37.5
9.6	22.3	I	6	N	3	—	4.8	44.6	20.8	40.9
9.5	11.5	I	4	N	2	—	4.8	23.0	20.8	62.5
9.4	18.2	I	3	N	1	—	4.7	36.4	20.9	49.1
9.2	19.0	I	3	N	1	—	4.6	38.0	21.0	47.5
9.0	21.8	I	4	N	2	—	4.5	43.6	21.1	41.9
8.9	17.4	I	4	N	1	—	4.4	34.8	21.2	50.7
8.8	13.0	I	4	K=.8H	1	—	4.4	26.0	21.2	59.5
8.5	14.9	I	4	N	1	—	4.2	29.8	21.4	55.7
8.2	17.0	I	6	N	3	—	4.1	34.0	21.5	51.5
8.4	17.5	I	3	N	1	—	4.2	35.0	21.4	50.5
8.8	6.9	I	4	N	1	—	4.4	13.8	21.2	71.7
7.4	15.6	I	4	N	1	—	3.7	31.2	21.9	54.3
7.0	12.4	III	2	N	1	—	3.5	24.8	22.1	60.7
6.6	16.0	I	6	N	3	—	3.3	32.0	22.3	53.5
6.5	17.0	I	4	N	1	—	3.2	34.0	22.4	51.5
6.4	9.9	III	8	K=H	4	—	3.2	19.8	22.4	65.7
6.1	6.2	III	3	K=H	4	—	3.0	12.4	22.6	73.1
6.0	10.7	?	3	N	5	—	3.0	21.4	22.6	64.1
5.4	12.0	I	6	N	2	—	2.7	24.0	22.9	61.5
5.7	16.6	I	5	N	1	—	2.8	33.2	22.8	52.3
5.8	17.2	I	3	N	1	—	2.9	34.4	22.7	51.1

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DM.	R.A.	Dec.	Mag.	H	V
1233	5 55 18.7	+20 8.4	5.1	85.3	25.7
1162	5 45 48.0	+20 14.8	5.0	84.6	25.7
1156	5 44 42.3	+20 15.8	7.2	84.5	25.7
2129	5 54 28.8	+20 34.9	7.7	85.1	25.6
1149	5 44 19.9	+20 44.0	7.7	84.5	25.6
1148	5 44 11.3	+20 44.7	8.5	85.0	25.8
1083	5 37 1.4	+20 37.4	7.7	85.0	25.6
1003	5 40 32.3	+21 5.0	7.9	85.1	25.9
1302	6 2 44.1	+20 55.8	7.0	25.7	25.7
1187	5 48 28.1	+20 58.1	8.3	84.9	25.7
1039	5 46 35.2	+21 2.9	8.3	84.6	25.6
1003	5 40 32.3	+21 5.0	7.9	84.1	25.6
1066	5 50 5.1	+21 12.7	8.5	84.9	25.6
1125	5 59 21.4	+21 18.7	7.8	85.3	25.7
1099	5 55 23.8	+21 29.9	8.1	85.2	25.7
1072	5 50 57.7	+21 35.2	7.2	85.0	25.7
1063	5 49 47.1	+21 28.3	8.5	84.8	25.7
1199	6 11 51.7	+21 8.8	8.0	25.7	25.5
1147	5 53 57.2	+22 2.6	8.3	85.2	25.7
1198	6 0 47.5	+22 12.6	6.5	25.6	25.7
1140	5 52 55.7	+22 23.9	6.7	84.9	25.7
1130	5 50 56.8	+22 27.4	7.5	84.9	25.7
1241	6 6 7.6	+22 32.8	3.2	25.9	25.7
1304	6 14 13.4	+22 34.8	3.0	26.6	25.6
Saturn.					
1232	6 1 42.3	+23 1.4	7.4	25.7	25.7
1135	5 51 40.7	+22 53.4	7.0	84.9	25.7
1131	5 51 2.3	+22 38.4	8.8	85.4	25.5

Look up on Chart

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			Hydrogen Lines			Other Lines.				
	Wt.	Type		K	Focus		V	H	V	H
5.2	12.3	I	5	N	3	—	2.6	24.6	23.0	60.9
5.0	14.9	III?	8	K=H	4	Seen	2.5	29.8	23.1	55.7
4.0	16.1	I	4	N	1	—	2.0	32.2	23.6	53.3
3.0	12.3	I	4	N	1	—	1.5	24.6	24.1	60.9
3.0	18.2	I	4	N	2	—	1.5	36.4	24.1	49.1
2.4	21.8	III	5	N	2	—	1.2	43.6	24.4	41.9
2.2	17.9	I	4	N	1	—	1.1	35.8	24.5	49.7

11 10

Plate 301. ~~Is this a good plate?~~ No.

14.4	13.9	I	7	N	5	—	7.2	27.8	1.2	54.8
12.4	12.6	III	4	K=H	3	—	6.2	25.2	2.2	57.4
11.5	14.4	I	4	N	2	—	5.8	28.8	2.6	53.8
11.3	7.8	I	3	N	1	—	5.6	15.6	2.8	67.0
11.1	7.3	I	3	N	2	—	5.6	14.6	2.8	68.0
11.0	8.0	I	3	N	1	—	5.0	16.0	3.4	66.6 68.4
11.2	8.8	III?	2	N	2	—	5.6	17.6	2.8	65.0
10.8	12.7	I	3	N	2	—	5.4	25.4	3.0	57.2
10.7	14.2	I	3	N	3	—	5.4	28.4	3.0	54.4
10.0	6.7	I	4	N	4	—	5.0	13.4	3.4	69.2
9.7	10.2	?	3	N	2	—	4.8	20.4	3.6	62.2
9.7	12.5	I	3	N	1	—	4.8	25.0	3.6	57.6
9.2	9.5	III?	4	K=H	5	—	4.6	19.0	3.8	63.6
9.0	6.9	I	5	N	3	—	4.5	13.8	3.9	68.8
8.3	7.8	I	4	N	2	—	4.2	15.6	4.2	67.0
7.4	14.0	I	4	N	3	—	3.7	28.0	4.7	54.6
6.9	8.9	I	4	N	3	—	3.4	17.8	5.0	64.8
6.8	12.8	I	4	N	3	—	3.4	25.8	5.0	56.8
5.6	12.0	I	3	N	1	—	2.8	24.0	5.6	58.6

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DM.	R.A.			Dec.		Mag.	H	V	
1226	6	0	57.3	+23	7.5	6.5	25.5	25.7	
1170	5	55	17.8	+23	15.6	5.1	85.1	25.8	Look up on Chart.
1150	5	52	39.0	+23	41.4	7.6	84.8	25.7	
1135	6	0	55.9	+24	13.5	8.4	25.5	25.7	
1133	5	48	3.1	+24	13.2	6.0	84.5	25.7	
~~980~~	~~5~~	~~41~~	~~43.2~~	~~+24~~	~~5.3~~	~~8.8~~	~~85.3~~	~~25.3~~	" " " "
1043	5	49	5.8	+24	35.5	7.6	84.9	25.7	

H.P		R.A.		Dec.		Mag.	H	V	
1325	6	53.9	−	28	49	1.5	81.7	8.4	Look up on chart
1333	6	56.9	−	27	46	3.5	82.1	8.4	" " " "
a.g.c. 8732									
Canis Majoris 1031 a.	6	52.7	−	27	22	6.6	81.5	8.4	Look in DM. "
a.g.c. 9080	7	5.3	−	27	17	6.3	20.9	8.3	
" " 1299 a.	~~7~~	~~5.9~~	~~−~~	~~17~~	~~8~~	~~6.8~~	~~21.5~~	~~8.5~~	" " "
a.g.c. 9121	7	7.1	−	27	8	7	21.7	8.5	
1364	~~7~~	~~8.1~~	~~+~~	~~3~~	~~19~~	~~5.5~~	~~22.7~~	~~8.9~~	Look up on Chart.
~~DM.~~									
~~4609~~	~~7~~	~~6.7~~	~~+~~	~~3~~	~~21~~	~~6.0~~	~~22.7~~	~~8.4~~	" " " "
1358	7	5.5	−	27	18	5.4	23.1	8.3	
a.g.c. 8835?	6	56.5	−	27	3	7¾	81.9	8.4	Look in DM. "
a.g.c. 8742	6	53.1	−	27	0	6.6	81.5	8.4	" " "
1370	7	9.9	−	26	34	3.7	23.3	8.4	
a.g.c. ~~DM.~~ 8983	7	1.9	−	26	28	7	22.3	8.3	" " "
~~4584~~	~~7~~	~~3.6~~	~~+~~	~~3~~	~~25~~	~~7.0~~	~~24.0~~	~~8.2~~	
a.g.c. 8844?	6	56.9	−	26	31	8	81.9	8.3	Look in DM. "
1350	6	3.5	−	26	12	1.8	22.5	8.4	
1368	7	9.4	−	26	9	4.5	23.2	8.3	
~~DM.~~ 9123	7	7.1	−	25	44	6.6	22.7	8.5	
a.g.c. ~~1634~~	~~7~~	~~7.5~~	~~+~~	~~4~~	~~5~~	~~8.6~~	~~23.1~~	~~8.3~~	" " " Chart.
1324	6	53.7	−	25	15	5.4	81.7	7.9	
a.g.c. ~~DM.~~ 9057	7	4.6	−	25	2	6.3	~~23.4~~	8.4	Look up on Chart.
~~1582~~	~~7~~	~~4.7~~	~~+~~	~~5~~	~~3~~	~~8.5~~	~~22.5~~	~~8.4~~	" " " "
1331	6	56.2	−	25	3	6.0	81.0	8.4	
a.g.c. 8872	6	57.7	−	24	24	8¼	81.7	8.4	" " Look in DM.

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		V	H.	Type	No. Lines	K	Focus	Other Lines.	V	H	V	H
		5.8	14.4	I	3	N	3	—	2.9	28.8	5.5	53.8
		5.9	16.3	I	3	N	2	—	3.0	32.6	5.4	50.0
		5.6	16.1	I	3	N	2	—	2.8	32.2	5.6	50.4
		5.0	16.0	III	1	N	2	—	2.5	32.0	5.9	50.6
		4.7	18.0	I	3	N	2	—	2.4	36.0	6.0	46.6
		4.2	14.0	I	3	N	1	—	2.1	28.0	6.3	54.6
		4.1	11.9	?	0	N	5	—	2.0	23.8	6.4	58.8
		2.5	15.3	?	1	N	3	—	1.2	30.6	7.2	52.0
11	45	2.8	24.8	?	0	N	3	—	1.4	49.6	7.0	33.0

Plate 195 Is this a Plate? No

		21.1	15.2	I	4	N	1	—	10.6	30.4	~~7.8~~ ~~2.2~~	48.6
		18.4	17.1	I	3	N	1	—	9.2	34.2	~~9.2~~ ~~8.8~~	42.0
		18.6	17.5	I	3	N	1	—	9.3	35.0	9.1 ~~8.9~~	41.2
		14.4	11.5	I	8	N	5	—	7.2	23.0	1.2	53.2
		12.3	10.1	III	3	K=H	2	—	6.2	20.2	2.2	56.0
		11.5	11.9	I	4	N	1	—	5.8	23.8	2.6	52.4
		12.3	23.8	I	4	N	1	—	6.2	47.6	2.2	28.6
		10.7	11.7	I	3	N	1	—	5.4	23.4	3.0	52.8
		9.2	7.1	II?	6	K=H	5	—	4.6	14.2	3.8	62.0
		8.0	15.1	?	2	N	1	—	4.0	30.2	4.4	46.0
		7.3	11.5	I	4	N	2	—	3.6	23.0	4.8	53.2
		6.9	10.4	I	4	N	2	—	3.4	20.8	5.0	55.4
		6.8	6.5	I	3	N	2	—	3.4	13.0	5.0	63.2
		5.5	13.7	I	2	N	1	—	2.8	27.4	5.6	48.6
		4.1	9.5	?	5	N	4	—	2.0	19.0	6.4	57.2
		3.7	23.8	?	0	N	3	—	1.8	47.6	6.6	28.6
		2.9	22.4	I	4	N	3	—	1.4	44.8	7.0	31.4
12	15	2.4	12.8	I	3	N	2	—	1.2	25.6	7.2	50.0

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	Dm.	R.A.	Dec.	Mag.	H	V	
	1321	6 52.8	-24 49	7	81.6	8.1	Look up on Chart
a.g.c.	~~8624~~	~~6 48.8~~	~~-24 23~~	~~7~~	~~81.4~~	~~8.6~~	Look in Dm.
	~~1305~~	~~6 48.4~~	~~-24 2~~	~~4.0~~	~~81.8~~	~~9.0~~	
	1320	6 52.6	-24 29	5.2	84.8	8.3	" " " "
	1312	6 49.2	-24 2	4.0	81.2	8.5	" " " "
a.g.c.	8495	6 44.5	-24 0	7 3/4	80.5	8.4	
	~~1312~~	~~6 49.2~~	~~-24 2~~	~~4.0~~	~~85.2~~	~~8.4~~	" " " "
a.g.c.	8746	6 53.4	-23 43	7½	81.4	8.4	" " " "
	1337	6 58.0	-23 40	3.0	81.8	8.3	" " " "
	1313	6 50.7	-22 47	5.2	81.3	8.4	" " " "
	1242	6 30.0	-22 52	4.4	79.6	8.5	" " "
		6 45.2	-82 22	4.0	76.6	8.2	
a.g.c.	8518	~~Not in the Dm.~~					Look in southern Chart
a.g.c.	Dm. 8382	6 40.8	-30 49	6 1/4	75.0	8.4	" " on Chart
	~~1495~~	~~6 42.4~~	~~-1 10~~	~~8.0~~	~~76.6~~	~~8.0~~	
	~~Dm. 8382~~	6 39.7	-30 57	6.7	74.7	8.3	
a.g.c.	~~1486~~	~~6 41.0~~	~~-1 10~~	~~6.7~~	~~76.0~~	~~8.1~~	" " " "
	1325	6 53.9	-28 49	1.5	76.9	8.3	
	1333	6 56.9	-27 46	3.5	77.1	8.4	
a.g.c.	~~Dm. 8732~~	6 52.7	-27 22	6.6	76.5	8.4	
	~~1499~~	~~6 52.7~~	~~+2 43~~	~~8.1~~	~~76.5~~	~~8.5~~	" " " "
	1240	6 28.1	-27 51	5.7	75.7	8.4	
a.g.c.	~~Dm. 8742~~	6 53.1	-27 0	6.6	76.5	8.4	
	~~1499~~	~~6 52.7~~	~~+2 43~~	~~8.1~~	~~76.1~~	~~8.1~~	" " " "
	1350	7 3.5	-26 12	1.8	77.7	8.4	
a.g.c.	~~Dm. 8522~~	6 45.5	-25 88	6.6	75.7	8.4	
	~~1502~~	~~6 46.9~~	~~+4 39~~	~~8.5~~	~~77.1~~	~~8.6~~	" " " "
	1324	6 53.7	-25 15	5.4	76.7	7.8	
	1331	6 56.2	-25 3	6.0	77.0	8.4	
a.g.c.	~~Dm. 7057~~	7 4.6	-25 2	6.3	77.6	8.4	
	~~1576~~	~~7 4.0~~	~~+5 11~~	~~8.4~~	~~77.0~~	~~8.6~~	" " " "
a.g.c.	~~Dm. 8624~~	6 48.8	-24 23	7	76.2	8.4	
	~~1472~~	~~6 47.5~~	~~+5 37~~	~~8.3~~	~~74.9~~	~~8.4~~	" " " "
	1337	6 58.0	-23 40	3.0	77.0	8.3	
	1235	6 26.9	-23 20	4.2	74.5	8.5	
	1242	6 30.0	-22 52	4.4	74.8	8.5	
	1317	6 50.7	-22 47	5.2	76.1	8.4	

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Plate 426.

12	2/3	V	H.	Type	No Lines	K	Focus	Other Lines.	V	H	V	H
		19.9	6.2	I	5	N	5	—	10.0	12.2	17.6	59.2
		13.3	19.8	I	3	N	1	—	6.6	39.6	21.0	31.8
		11.5	14.7	I	4	N	2	—	5.8	29.4	21.8	42.0
		11.0	10.2	I	3	N	1	—	5.5	20.4	22.1	51.0
		9.8	8.7	I	5	N	3	—	4.9	17.4	22.7	54.0
		8.0	23.1	III	3	N	2	—	4.0	46.2	23.6	25.2
		7.9	20.7	I	3	N	1	—	4.0	41.4	23.6	30.0
		6.5	16.6	III	6	K=H	5	poor	3.2	33.2	24.4	38.2
		5.1	13.8	I	6	K=.27H	3	—	2.6	27.6	25.0	43.8
		1.9	13.5	III	4	K=H	4	—	1.0	27.0	26.6	44.4

Plate 438

		22.1	16.7	III	3	N	1	—	11.0	33.4	7.0	52.4
		21.6	14.1	I	5	N	1	—	10.8	28.2	7.2	57.6
		21.4	8.0	I	5	N	2	—	10.7	16.0	7.3	69.8
		20.8	12.3	III	5	K=H	3	—	10.4	24.6	7.6	61.2
		20.5	16.2	I	4	N	1	—	10.2	32.4	7.8	53.4
		20.6	19.3	I	3	N	1	—	10.3	38.6	7.7	47.2
		18.6	14.5	I	4	N	1	—	9.3	29.0	8.7	56.8
		18.2	21.3	I	3	N	1	—	9.1	42.6	8.9	43.2
		17.9	21.5	I	4	N	1	—	9.0	43.0	9.0	42.8
		18.6	14.5	I	4	N	1	—	9.3	29.0	8.7	56.8
		18.0	11.0	I	3	N	1	—	9.0	22.0	9.0	63.8
		17.6	12.6	I	3	N	1	—	8.8	25.2	9.2	60.6
		17.8	16.0	III	6	N	2	—	8.9	32.0	9.1	53.8
		17.9	5.9	I	5	N	1	—	9.0	11.8	9.0	74.0
		17.1	9.9	?	2	N	1	—	8.6	19.8	9.4	66.0
1	0	16.6	6.5	?	4	N	1	—	8.3	13.0	9.7	72.8

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Dm.	R.a.	Dec.	Mag.	H	V	
2171	9 59 25.4	+17 28.7	3.4	71.6	27.5	
2350	9 30 45.4	+20 57.1	6.5	70.4	27.6	
2113	9 41 44.1	+21 53.3	6.9	71.1	27.7	
2148	9 51 24.3	+22 1.6	6.7	71.8	27.5	
2164	9 54 44.7	+22 39.7	5.3	72.1	27.6	
2107	9 23 26.2	+23 53.6	4.5	69.6	27.9	look up on plate & Chart
2126	9 30 21.6	+23 42.8	7.8	71.7	27.7	
2129	9 37 36.7	+24 26.8	3.2	70.8	27.6	
2169	9 43 39.8	+25 5.1	5.8	71.3	27.7	
2019	9 44 31.0	+26 41.8	4.0	71.5	27.7	
2157	7 52 24.8	−3 16.8	4.9	85.8	17.7	look up on Chart
2202	7 57 43.3	−3 5.2	7.0	85.9	17.7	" " " "
2509	8 9 52.4	−2 55.1	6.3	25.9	17.8	
2450	8 1 18.8	−2 33.6	4.8	25.9	17.8	
2379	7 53 26.8	−2 28.8	6.8	85.8	17.7	" " " "
2341	7 47 15.9	−2 25.3	7.0	85.9	17.9	
1940	7 57 6.4	−1 11.3	8.0	86.1	18.1	" " " "
1853	7 43 13.4	−1 14.1	8.5	85.8	17.9	" " " "
1849	7 42 53.1	−1 5.3	8.2	85.9	17.9	" " " "
1939	7 56 54.7	−1 26.8	8.5	85.9	17.9	" " " "
1976	8 3 51.9	−1 8.5	8.0	25.9	17.9	
1913	8 0 34.4	−0 55.7	8.1	25.8	17.9	
1882	7 53 50.9	−0 59.2	5.3	85.8	17.9	
2017	8 13 59.3	−1 8.3	7.0	25.8	17.9	
1938	8 6 0.3	−0 44.5	7.5	25.8	18.3	" " " "
1966	8 12 49.1	−0 26.8	7.2	25.8	17.9	

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June 7. 1886.

Plate 438.

V	Hg.	Type	No. Lines	K	Focus	Other Lines.	V	H	V	H
2 40	16.3	17.9	I	4	N	2	—	8.2	35.8	9.8	50.0
	16.2	13.8	II	3	K=H	2	—	8.1	27.6	9.9	58.2
	15.8	12.0	I	4	N	2	—	7.9	24.0	0.1	61.8
	15.0	12.0	I	4	N	2	—	7.5	24.0	0.5	61.8
	15.0	23.2	I	4	N	1	—	7.5	46.4	0.5	39.4
	15.0	21.2	III	2	N	1	—	7.5	42.4	0.5	43.4
	14.1	13.5	I	4	N	1	—	7.0	27.0	1.0	58.8
	14.1	20.8	I	3	N	1	—	7.0	41.6	1.0	44.2
	13.8	7.8	I	3	N	1	—	6.9	15.6	1.1	70.2
	13.5	13.8	I	4	N	1	—	6.8	27.6	1.2	58.2
	13.6	22.2	I	4	N	2	—	6.8	44.4	1.2	41.4
	12.9	11.7	I	3	N	1	—	6.4	23.4	1.6	62.4
	12.6	9.3	I	4	N	1	—	6.3	18.6	1.7	67.2
	12.0	9.9	I	4	N	1	—	6.0	19.8	2.0	66.0
	12.4	12.0	I	5	N	2	—	6.2	24.0	1.8	61.8
	12.9	18.0	I?	4	K=H	2	—	6.4	36.0	1.6	49.8
	11.6	20.9	I	8	N	4	—	5.8	41.8	2.2	44.0
	11.5	23.4	I	4	N	1	—	5.8	46.8	2.2	39.0
	11.0	22.5	I	4	N	1	—	5.5	45.0	2.5	40.8
	11.1	12.3	I	4	N	2	—	5.6	24.6	2.4	61.2
	10.7	13.8	I	4	N	2	—	5.4	27.6	2.6	58.2
	10.7	17.5	III?	6	K=H	3	—	5.4	35.0	2.6	50.8
	10.5	15.5	III	7	K=H	4	Reen	5.2	31.0	2.8	54.8
	10.5	18.4	I	4	N	1	—	5.2	36.8	2.8	49.0
	9.2	8.8	I	4	N	1	—	4.6	17.6	3.4	68.2
	9.2	8.9	I	4	N	1	—	4.6	17.8	3.4	68.0
	9.1	17.4	I	5	N	2	—	4.6	34.8	3.4	51.0
	8.6	21.3	III	2	N	1	—	4.3	42.6	3.7	43.2

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Dm.	R.A.	Dec.	Mag.	H	V	
1864	7 50 0.9	-0 14.3	7.5	85.8	18.0	" " " "
1903	7 58 24.6	-0 9.4	6.8	86.0	17.9	
2203	8 1 53.6	+0 18.1	8.3	25.9	8.2	look up on Chart
2206	8 2 15.3	+0 45.8	8.5	26.3	8.3	" " " "
2079	7 39 36.6	+0 22.2	8.5	86.0	7.9	
2108	7 43 28.0	+0 26.1	6.5	85.9	7.9	
1991	7 58 17.4	+1 14.6	8.5	85.3	8.2	" " " "
1977	7 43 35.0	+1 2.2	8.2	85.2	8.0	" " " "
2248	8 10 11.3	+0 55.6	8.0	25.8	7.8	
1191	7 58 17.4	+1 14.6	8.5	85.9	8.0	" " " "
1911	7 41 30.0	+1 1.2	7.6	85.9	7.8	
2014	8 2 29.2	+1 26.5	8.0	25.9	7.8	
2040	8 7 8.2	+1 35.5	7.8	25.7	7.9	
2031	8 5 59.6	+1 49.0	8.3	25.8	7.8	
2008	8 1 51.7	+1 42.1	8.0	25.9	7.9	" " " "
1959	7 49 49.2	+1 32.2	6.5	85.8	7.9	
1808	7 44 12.4	+2 7.8	5.7	86.0	7.9	
1776	7 39 4.8	+2 12.6	7.4	85.9	8.0	" " " "
1790	7 40 56.7	+2 23.8	8.0	85.9	7.9	
1882	8 1 7.0	+2 19.5	7.8	25.7	7.9	" " " "
1868	7 58 15.7	+2 35.1	7.7	85.9	8.0	" " " "
1833	7 50 50.7	+2 37.3	6.0	85.8	8.0	" " " "
1854	7 54 44.7	+2 43.2	5.0	85.7	7.9	
1827	7 48 58.7	+2 42.4	8.3	85.8	7.9	" " " "
1933	7 8 16.5	+3 13.7	7.5	25.9	7.8	
1932	7 7 59.0	+3 16.1	8.0	25.8	7.9	
1860	7 50 57.5	+3 19.7	7.5	85.8	7.9	
1818	7 43 12.8	+3 38.8	6.7	85.8	7.9	

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Plate 438

V.	Mo.	Type	No. Lines	K	Focus	other Lines.	V	H	V	H
8.4	20.3	I	4	N	1	—	4.2	40.6	3.8	45.2
8.3	14.7	I	4	N	1	—	4.2	29.4	3.8	56.4
7.7	19.7	I	4	N	1	—	3.8	39.4	4.2	46.4
6.8	14.3	I	5	N	1	—	3.4	28.6	4.6	57.2
6.5	8.0	I	3	N	1	—	3.2	16.0	4.8	69.8
6.6	18.5	I	3	N	1	—	3.3	37.0	4.7	48.8
6.2	18.5	III	3	N	2	—	3.1	37.0	4.9	48.8
5.5	16.1	I	7	N	4	—	2.8	32.2	5.2	53.6
5.2	10.3	I	4	N	1	—	2.6	20.6	5.4	65.2
3.9	17.3	I	5	N	2	—	2.0	34.6	6.0	51.2
3.5	14.0	I	5	N	2	—	1.8	28.0	6.2	57.8
3.5	21.3	I	5	N	1	—	1.8	42.6	6.2	43.2
5.2	23.2	I	4	N	1	—	2.6	46.4	5.4	39.4
3	20 3.5	21.6	I	4	N	1	—	1.8	43.2	6.2	42.6

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DM.	R.a.	Dec.	Mag.	H	V
1827	7 45 7.5	+3 45.4	8.0	85.7	8.0
1883	7 56 21.5	+3 47.5	8.0	85.8	8.0
1849	7 46 22.7	+4 7.4	8.5	85.8	7.9
1896	7 57 15.4	+4 32.8	8.0	85.9	7.9
1945	8 9 41.3	+4 39.0	7.0	25.7	7.8
1860	7 48 47.6	+4 51.2	7.0	85.8	8.2
1861	7 48 51.7	+4 58.2	8.4	85.9	8.1
1857	7 53 34.7	+5 16.0	6.5	85.8	8.1
1904	8 5 13.4	+5 21.6	8.0	25.9	8.0
1840	7 51 3.4	+6 1.0	7.4	85.7	8.0
1869	7 57 42.3	+6 14.1	8.0	85.7	8.0
1795	7 43 6.3	+6 12.9	7.7	85.7	8.0
1785	7 39 20.1	+5 16.8	7.7	85.7	7.9
1792	7 42 40.3	+6 6.3	8.0	85.9	7.9

" " " " Look up on Chart-
" " " "
" " " "
" " " "

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June 10, 1886.

Plate 56.

		V	H.	Type	No. Lines	K	Focus	Other Lines.	V	H	V	H
10	25	23.0	16.9	I?	8	K=.8H	4	—	11.5	33.8	1.6	14.7
		22.7	7.1	I	3	N	2	—	11.4	14.2	1.7	34.3
		21.4	12.5	I	9	N	5	—	10.7	25.0	2.4	23.5
		20.6	14.5	III	2	N	2	—	10.3	29.0	2.8	19.5
		20.3	14.7	I	5	N	3	—	10.2	29.4	2.9	19.1
		20.0	20.7	?	3	N	2	—	10.0	41.4	3.1	07.1
		19.3	16.8	I	3	?	2	—	9.6	33.6	3.5	15.1
		18.7	11.8	I	4	N	2	—	9.4	23.6	3.7	24.9
		18.5	23.4	III	1	N	1	—	9.2	46.8	3.9	1.7
		17.0	12.6	II?	2	K=H	1	—	8.5	25.2	4.6	23.3
		17.0	7.6	I	5	N	4	—	8.5	15.2	4.6	33.3
		16.9	20.2	I	2	N	1	—	8.4	40.4	4.7	8.1
		15.7	7.1	I	4	N	2	—	7.8	14.2	5.3	34.3
		15.5	21.2	III	5	K=H	2	—	7.8	42.4	5.3	6.1
		14.9	9.1	?	1	N	2	—	7.4	18.2	5.7	30.3
		14.6	12.0	I	2	N	2	—	7.3	24.0	5.8	24.5
		14.5	11.6	I	7	N	5	—	7.2	23.2	5.9	25.3
		14.3	15.6	I	2	N	1	—	7.2	31.2	5.9	17.3
		14.3	18.1	I	3	N	1	—	7.2	36.2	5.9	12.3
		13.5	12.9	I	4	K=H	2	—	6.8	25.8	6.3	22.7
		13.3	18.8	?	2	N	1	—	6.6	37.6	6.5	10.9
		13.3	21.1	I	4	N	2	—	6.6	42.2	6.5	6.3
		12.6	23.2	III	3	K=H	2	—	6.3	46.4	6.8	2.1
		12.1	17.1	I	3	N	1	—	6.0	34.2	7.1	14.3
		11.7	15.7	I	8	✱?	5	—	5.8	31.4	7.3	17.1
		11.3	9.4	I	4	N	2	—	5.6	18.8	7.5	29.7
		11.5	20.8	I	4	N	2	—	5.6	41.6	7.5	6.9
		10.5	15.7	?	3	?	1	—	5.2	31.4	7.9	17.1

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DM.	R.A.	Dec.	Mag.	H	V
3215	16 14 44.9	+1 22.0	5.0	48.5	12.9
3190	16 34 23.5	+1 26.7	6.5	48.6	12.8
3118	16 23 37.0	+2 17.1	40	48.6	13.0
3106	16 19 33.0	+2 40.7	7.0	48.6	13.0
3103	16 19 5.9	+2 49.9	7.2	48.6	13.0
3151	16 4 6.0	+3 2.0	7.5	48.5	13.0
3174	16 15 3.9	+3 25.8	7.4	48.7	13.0
3213	16 24 49.9	+3 39.7	8.0	48.4	13.1
3132	16 1 45.2	+3 50.4	6.3	48.6	13.0
3195	16 23 22.5	+4 33.3	7.6	48.6	13.1
3235	16 33 27.6	+4 30.4	6.1	48.7	13.0
3144	16 8 4.6	+4 37.8	8.5	48.5	13.0
3154	16 34 21.3	+5 9.0	7.2	48.6	13.0
3165	16 6 4.9	+5 23.9	5.8	48.5	13.2
3240	16 30 25.3	+5 35.2	6.8	48.6	13.0
3221	16 24 30.9	+5 45.0	7.7	48.5	13.1
3223	16 25 27.7	+5 49.8	5.9	48.7	13.0
3193	16 17 19.2	+5 52.0	8.5	48.5	13.1
3180	16 12 18.6	+5 54.0	7.8	48.5	13.1
3236	16 22 44.4	+6 17.7	7.0	48.5	13.1
3198	16 10 54.5	+6 26.4	7.7	48.5	13.0
3183	16 6 11.6	+6 25.3	8.0	48.4	13.0
3169	16 2 3.4	+6 48.0	6.5	48.5	13.1
3149	16 14 20.1	+7 1.0	8.3	48.5	13.0
3164	16 17 8.3	+7 16.8	6.0	48.5	13.1
3209	16 29 49.6	+7 23.3	8.0	48.6	13.0
3120	16 6 47.0	+7 22.2	7.5	48.4	13.0
3166	16 17 9.7	+7 48.1	8.2	48.6	13.0

Look upon Chart

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June 10. 1886.

Plate 56

V	H	Type	No. Lines	K	Focus	Other Lines.	V	H	V	H
9.7	20.4	III	2	N	1	—	4.8	40.8	8.3	7.7
9.0	12.0	?	1	N	2	—	4.5	24.0	8.6	24.5
9.1	15.2	I	3	N	1	—	4.6	30.4	8.5	18.1
8.4	23.4	III	1	N	2	—	4.2	46.8	8.9	1.7
7.9	11.0	I	4	N	1	—	4.0	22.0	9.1	26.5
7.0	14.4	III	3	K=H	2	—	3.5	28.8	9.6	19.7
6.9	14.9	III	1	N	1	—	3.4	29.8	9.7	18.7
6.8	11.8	I	6	K=H	3	—	3.4	23.6	9.7	24.9
6.5	8.8	I?	2	N	1	—	3.2	17.6	9.9	30.9
6.0	11.9	I	5	N	3	—	3.0	23.8	10.1	24.7
5.7	23.8	I	5	N	4	—	2.8	47.6	10.3	0.9
5.5	12.3	I	3	N	1	—	2.8	24.6	10.3	23.9
5.3	23.6	I	4	N	2	—	2.6	47.2	10.5	1.3
5.0	18.7	I	4	N	1	—	2.5	37.4	10.6	11.1
4.9	11.0	I	5	N	3	—	2.4	22.0	10.7	26.5
4.4	13.0	I	2	N	1	—	2.2	26.0	10.9	22.5
4.1	9.4	I	2	N	1	—	2.0	18.8	11.1	29.7
2.9	14.6	III	3	K=H	2	—	1.4	29.2	11.7	19.3
2.6	11.4	III	5	K=H	3	—	1.3	22.8	11.8	25.7
11 33	2.5	20.0	I	3	N	1	—	1.2	40.0	11.9	8.5

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DM.	R.A.		Dec.		Mag.	H	V	
3158	16	7	40.6	+8	14.1	7.0	48.5	13.0	
3215	16	24	31.2	+8	37.4	7.7	48.5	13.1	
~~3188~~	~~16~~	~~17~~	~~60.5~~	~~+8~~	~~59.6~~	~~8.3~~	~~48.2~~	~~13.6~~	Look up on Chart.
3141	16	1	29.3	+8	55.8	6.4	48.3	13.1	
3225	16	26	42.1	+9	7.9	8.7	48.7	13.1	
3208	16	19	46.9	+9	36.9	7.0	48.6	13.1	
3203	16	18	45.0	+9	43.2	6.8	48.6	13.1	
3218	16	25	1.9	+9	43.8	6.8	48.6	13.1	" " " "
3241	16	31	2.7	+9	47.0	8.2	48.6	13.0	
—									Look up on ~~Chart~~ plate.
2958	16	0	43.4	+10	17.0	6.2	48.3	13.1	" " " "
3017	16	23	43.8	+10	2.4	8.8	48.3	12.8	" " " "
2959	16	1	12.0	+10	28.8	7.3	48.4	13.1	
2983	16	10	55.9	+10	39.5	8.1	48.3	13.1	
3025	16	26	42.4	+10	40.7	7.0	48.7	13.1	" " " "
3012	16	22	33.6	+10	54.8	7.8	48.6	13.1	
3015	16	29	54.5	+11	1.4	8.0	48.7	13.0	
2984	16	19	23.1	+11	45.5	6.5	48.6	13.2	" " " "
3008	16	25	49.7	+11	48.8	5.2	48.6	13.1	" " " "
2947	16	8	11.3	+11	52.5	6.9	48.2	13.1	

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June 11. 1886.

Plate 568.

	V.	No.	Type	Pro. Lines	K	Focus	Other Lines.	V	H	V	H
11 45	21.6	10.4	I	3	N	1	—	10.8	20.8	7.4	50.0
	21.1	13.2	I	4	N	2	—	10.6	26.4	7.6	44.4
	20.9	14.1	I	4	?	2	—	10.4	28.2	7.8	42.6
	20.2	21.1	III	2	K=H	2	—	10.1	42.2	8.1	28.6
	19.0	5.7	I	3	N	2	—	9.5	11.4	8.7	59.4
	19.0	12.1	I	5	K=H	3	—	9.5	24.2	8.7	46.6
	17.7	18.6	I	6	?	3	—	8.8	37.2	9.4	33.6
	17.6	6.4	I	4	N	3	—	8.8	12.8	9.4	58.0
	16.8	17.1	I	4	N	1	—	8.4	34.2	9.8	36.6
	16.0	7.3	I	5	N	2	—	8.0	14.6	0.2	56.2
	15.8	12.6	III?	1	N	1	—	7.9	25.2	0.3	45.6
	15.1	20.6	?	1	N	1	—	7.6	41.2	0.6	29.6
	14.4	6.5	II?	3	K=H	2	—	7.2	13.0	1.0	57.8
	14.0	14.5	I	3	N	1	—	7.0	29.0	1.2	41.8
	13.7	16.4	I	6	N	5	—	6.8	32.8	1.4	38.0
	13.6	15.1	I	3	N	1	—	6.8	30.2	1.4	40.6
	13.4	13.5	I	7	?	5	—	6.7	27.0	1.5	43.8
	13.5	18.3	I	7	K=.8 H	5	—	6.8	36.6	1.4	34.2
	13.2	18.5	III	1	N	1	—	6.6	37.0	1.6	33.8
	13.3	18.1	I	2	N	1	—	6.6	36.2	1.6	34.6
	13.1	12.4	I	3	N	1	—	6.6	24.8	1.6	46.0
	13.0	21.1	II?	2	K=H	1	—	6.5	42.2	1.7	28.6
	12.9	22.2	I	3	N	1	—	6.4	44.4	1.8	26.4
	12.0	23.8	I	5	N	5	—	6.0	47.6	2.2	23.2
	11.8	15.6	I	7	K=2 H	4	—	5.9	31.2	2.3	39.6
	11.4	15.7	I	6	K=.5 H	1	—	5.7	31.4	2.5	39.4
	11.2	18.1	I	4	N	1	—	5.6	36.2	2.6	34.6
	9.1	23.1	I	3	N	1	—	4.6	46.2	3.6	24.6

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Dm.	R.A.	Dec.	Mag.	H	V	
4283	16 50 6.3	-2 47.1	7.0	70.9	18.0	Look up on Chart ~~Look in Southern Div.~~
4268	16 44 53.5	-2 32.6	7.0	71.0	18.1	" " " " " "
4259	16 42 48.5	-2 26.5	6.2	71.0	18.0	" " " " " "
3201	16 28 44.3	-1 60.6	5.8	70.9	18.1	
3292	16 59 21.7	-1 27.2	6.3	70.8	18.0	
3268	16 46 39.9	-1 22.3	6.5	70.9	18.1	
3168	16 33 43.7	-0 43.5	6.5	70.9	18.1	
3224	16 58 3.9	-0 40.9	5.8	70.9	18.1	
3172	16 36 15.1	-0 30.0	7.5	70.5	17.9	" " On chart.
3624	16 56 15.9	+0 4.9	6.8	70.9	8.1	
3593	16 45 41.3	+0 17.1	7.0	70.9	8.2	
3553	16 29 43.7	+0 32.7	7.2	70.9	8.1	
3629	16 57 54.3	+0 54.7	6.3	70.9	8.1	
3313	16 42 4.5	+1 9.4	7.7	71.1	8.2	
~~3298~~	~~16 38 9.0~~	~~+1 16.9~~	~~7.0~~	~~71.0~~	~~8.1~~	Look up on Chart
3309	16 40 52.5	+1 20.1	8.0	71.1	8.1	
3323	16 44 5.0	+1 28.0	6.0	71.1	8.2	" " " "
3290	16 34 23.5	+1 26.7	6.5	71.0	8.2	" " " "
3286	16 33 57.0	+1 30.4	7.3	71.0	8.1	
3293	16 34 46.0	+1 31.3	8.6	71.0	8.1	" " " "
3332	16 46 3.2	+1 35.5	8.2	70.9	8.2	
3263	16 28 44.0	+1 40.3	8.0	70.9	8.2	
3255	16 26 41.0	+1 43.5	8.5	71.1	8.1	" " " "
3118	16 23 37.0	+2 17.1	4.0	71.2	8.3	" " " "
3175	16 39 51.1	+2 20.3	6.6	71.1	8.2	" " " "
3174	16 39 36.0	+2 30.4	7.5	71.0	8.2	
3155	16 34 49.9	+2 33.2	8.1	71.0	8.1	
3213	16 24 49.9	+3 39.7	8.0	71.0	8.3	" " " "

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June 11, 1886.

Plate 568.

		V.	H.	Type	No. Lines	K	Focus	Other Lines.	V	H	V	H
		9.0	17.6	I	4	N	1	—	4.5	35.2	3.7	35.6
		8.9	6.4	I	2	N	1	—	4.4	12.8	3.8	58.0
		8.2	6.6	I	3	N	1	—	4.1	13.2	4.1	57.6
		7.8	16.1	I	5	K=H?	1	—	3.9	32.2	4.3	38.6
		~~7.8~~	~~16.1~~	~~I~~	~~5~~	~~K=H~~	~~1~~	~~—~~	~~3.9~~	~~32.2~~	~~4.3~~	~~38.6~~
		7.5	18.8	I	7	N	5	—	3.8	37.6	4.4	33.2
		6.1	18.3	I	5	N	1	—	3.0	36.6	5.2	34.2
		5.5	15.2	I	8	N	5	—	2.8	30.4	5.4	40.4
		5.1	14.3	I	3	N	1	—	2.6	28.6	5.6	42.2
		5.0	13.6	I	4	N	1	—	2.5	27.2	5.7	43.6
		5.3	20.3	III	1	N	1	—	2.6	40.6	5.6	30.2
		4.9	23.2	I	3	N	1	—	2.4	46.4	5.8	24.4
		4.8	22.7	I	5	N	5	—	2.4	45.4	5.8	25.4
		3.7	16.5	?	2	N	1	—	1.8	33.0	6.4	37.8
12	25	2.7	8.8	I	4	N	2	—	1.4	17.6	6.8	53.2

Plate 516

1	20	20.0	6.9	I	2	N	1	—	10.0	13.8	12.9	39.5
		16.8	6.4	I	2	N	1	—	8.4	12.8	14.5	40.5
		15.7	6.1	I	4	N	2	—	7.8	12.2	15.1	41.1
		15.1	7.8	I	2	N	1	—	7.6	15.6	15.3	37.7
		14.4	22.1	I	5	?	3	—	7.2	44.2	15.7	9.1
		10.9	7.3	III	2	N	1	—	5.4	14.6	17.5	38.7
		10.9	19.2	I	4	N	2	—	5.4	38.4	17.5	14.9
		8.8	19.7	III	2	K=H	3	—	4.4	39.4	18.5	13.9
		7.5	12.9	III	2	N	2	—	3.8	~~35.8~~ 25.8	19.1	27.5
1	30	2.5	15.4	I	4	N	2	—	1.2	30.8	21.7	22.5

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DM.	R.a.	Dec.	Mag.	H	V	
3254	16 35 49.0	+3 44.2	7.8	70.9	8.2	
3338	16 58 11.7	+3 38.2	7.3	71.0	8.0	Look up on Chart
3335	16 57 40.3	+3 58.6	8.1	70.9	8.1	
3250	16 38 47.3	+4 18.3	7.0	70.9	8.2	
3255	16 33 27.6	+4 30.4	6.1	71.1	8.3	Look up on Chart
3254	16 34 21.3	+5 9.0	7.2	71.0	8.2	
3272	16 40 38.5	+5 30.4	5.3	71.0	8.3	" " " "
3276	16 42 22.3	+5 37.7	8.2	71.0	8.2	
3282	16 43 51.9	+5 43.9	7.8	71.1	8.3	" " " "
3240	16 30 25.3	+5 35.2	6.8	71.0	8.2	
3221	16 24 30.9	+5 45.0	7.7	70.9	8.2	
3223	16 25 27.7	+5 49.8	5.9	70.9	8.2	" " " "
3288	16 37 56.7	+6 22.6	6.5	70.9	8.2	
3332	16 53 25.1	+6 48.5	7.0	71.0	8.2	
2512	12 39 56.8	+12 45.1	6.5	53.7	22.8	
2544	12 39 48.0	+14 24.6	7.5	52.6	22.8	" " " "
2549	12 41 38.5	+14 55.0	5.9	53.8	22.7	
2504	12 38 11.2	+15 9.7	8.0	53.8	22.8	Look up on Chart
2436	12 8 38.5	+15 43.5	5.1	52.8	22.9	
2532	12 39 14.4	+17 18.2	8.6	53.8	22.7	" " " "
2469	12 14 41.9	+17 32.3	6.8	53.1	22.9	" " " "
2592	12 13 24.4	+18 36.8	4.5	52.8	23.0	" " " "
2584	12 24 52.2	+19 10.6	4.3	53.7	23.0	
2424	12 22 25.5	+21 42.0	5.8	53.2	22.9	

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Plate 554.

		V.	H.	Type	Lines	K	Focus	Other Lines.	V	H	V	H
2	15	19.2	10.2	I	4	N	1	—	9.6	20.4	13.6	29.8
		19.1	18.7	I	7	K=H	3	—	9.6	37.4	13.6	14.8
		19.0	21.3	I	4	K=H	2	—	9.5	42.6	13.7	7.6
		18.8	11.0	I	3	N	1	—	9.4	22.0	13.8	28.2
		18.0	8.3	I	6	K=H?	2	—	9.0	16.6	14.2	33.6
		17.5	8.1	I	7	N	5	—	8.8	16.2	14.4	34.0
		17.0	12.1	I	2	N	1	—	8.5	24.2	14.7	26.0
		15.5	7.3	I	4	N	2	—	~~8.8~~ 7.8	14.6	~~14.4~~ 15.4	35.6
		14.5	19.5	III?	1	N	1	—	7.2	39.0	16.0	11.2
		12.6	16.4	I	3	N	1	—	6.3	32.8	16.9	17.4
		12.5	18.5	III	5	K=H	2	Seen.	6.2	37.0	17.0	13.2
		12.3	8.4	I	8	N	5	—	6.2	16.8	17.0	33.4
		11.0	6.3	III	4	K=H	2	—	5.5	12.6	17.7	37.6
		9.9	12.8	I	1	N	1	—	5.0	25.6	18.2	24.6
		8.5	9.6	III	1	N	1	—	4.2	19.2	19.0	31.0
		7.4	20.2	I	6	K=.8 H	2	—	3.7	40.4	19.5	9.8
		6.8	15.2	I	7	K=.5H	3	—	3.4	30.4	19.8	19.8
		6.8	20.3	I?	13	?	5	—	3.4	40.6	19.8	9.6
		5.0	19.9	I	4	K=1H	1	—	2.5	39.8	20.7	10.4
2	50	13.7	23.5	?	1	N	1	—	6.8	47.0	16.4	3.2

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Dm.	R.A.			Dec.		Mag.	H	V	
2820	14	29	46.8	+13	30.4	7.2	50.2	23.1	
2781	14	12	15.8	+13	40.9	5.7	49.7	23.3	
2764	14	7	7.2	+13	39.6	6.2	49.7	23.2	
2814	14	28	4.4	+13	45.2	7.0	50.1	23.2	
2769	14	33	46.3	+14	9.4	6.5	50.4	23.2	
2770	14	34	14.4	+14	22.2	3.5	50.4	23.2	
2746	14	25	54.7	+14	43.3	7.0	50.1	23.2	
2749	14	35	51.4	+15	20.4	6.7	50.4	23.1	Look up on Chart
2690	14	10	33.4	+15	56.1	6.2	49.6	23.1	
2642	14	17	20.5	+16	56.3	7.3	50.2	23.2	
2637	14	12	54.0	+16	58.2	5.3	49.9	23.2	
2768	14	33	55.7	+17	3.0	3.8	50.7	23.2	
2780	14	38	29.7	+17	35.1	4.5	51.1	23.1	
2888	14	24	47.0	+18	17.1	6.8	50.4	23.3	
2906	14	31	29.8	+18	56.5	6.1	50.7	23.1	
2779	14	9	16.2	+19	36.0	6.7	49.7	23.3	Look upon Chart
2810	14	19	43.3	+19	52.8	6.4	50.1	23.3	" " " "
2777	14	9	3.0	+19	56.4	1.0	49.6	23.3	
2954	14	9	49.1	+19	48.0	7.0	49.6	23.3	
2616	14	2	40.1	+16	18.5	7.0	49.7	23.1	

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Aug 2, 1886.

Plate 471.

g	°	V	H.	Type	Pro Lines	K	Focus	other Lines	V	H	V	H
		22.0	8.2	I	3	N	1	—	11.0	16.4	7.0	70.6
		15.9	7.9	I	5	N	1	—	8.0	15.8	0.0	71.2
		15.6	7.3	I	8	N	5	—	7.8	14.6	0.2	72.4
		14.9	22.8	I	3	N	1	—	7.4	45.6	0.6	41.4
		13.2	20.3	I	5	K=.5H	2	—	6.6	40.6	1.4	46.4
		13.3	17.7	?	2	N	1	—	6.6	35.4	1.4	51.6
		13.1	13.3	I	3	N	2	—	66	26.6	1.4	60.4
		11.8	15.0	?	3	?	5	—	5.9	30.3	2.1	57.0
?		11.9	15.5	?	0	N	5	—	6.0	31.0	2.0	56.0
		11.5	15.1	I?	2	N	1	—	5.8	30.2	2.2	56.8
		11.6	15.8	I?	2	N	1	—	5.8	31.6	2.2	55.4
		11.1	8.2	I	4	N	1	—	5.6	16.4	2.4	70.6
		10.6	12.4	III	3	K=H	1	—	5.3	24.8	2.7	62.2
K line?		10.8	22.0	I?	8	?	5	—	5.4	44.0	2.6	43.0
		10.8	6.9	I?	2	N	2	—	5.4	13.8	2.6	73.2
		9.8	16.2	I	2	N	1	—	4.9	20.4	3.1	66.6
		8.0	19.7	I	2	N	1	—	4.0	39.4	4.0	47.6
		7.8	7.0	III	2	N	2	—	3.9	14.0	4.1	73.0
		7.6	11.0	I?	2	N	1	—	3.8	22.0	4.2	65.0
		7.3	14.9	I	2	N	1	—	3.6	29.8	4.4	57.2
		7.2	17.2	I	7	N	4	—	3.6	34.4	4.4	52.6
		6.3	11.4	I	5	N	2	—	3.2	22.8	4.8	64.2
		3.3	15.3	I	4	K=H	1	—	1.6	30.6	6.4	56.4
		2.8	12.1	I	6	K=.8H	2	—	1.4	24.2	6.6	62.8
		2.5	21.6	I	4	N	2	—	1.2	43.2	6.8	43.8
		3.0	7.2	I	2	N	1	—	1.5	14.4	6.5	72.6
		3.6	5.9	I?	1	N	1	—	1.8	11.8	6.2	75.2

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DM.	R. A.	Dec.	Mag.	H	V	
3263	12 10 43.5	− 3 8.4	6.8	27.1	17.9	Look in southern DM.
2920	12 11 14.7	+ 0 0.9	6.3	27.0	8.0	
2926	12 12 29.8	+ 0 8.0	3.2	27.1	7.9	
2843	11 41 38.8	+ 0 28.8	6.5	87.2	7.9	
2624	11 46 25.5	+ 1 20.7	6.8	87.0	8.0	
2636	11 51 38.4	+ 1 20.2	6.8	87.0	7.9	
2656	12 0 34.8	+ 1 26.1	7.5	27.2	8.0	
–						Look up on plate
–						" " " "
2509	11 56 48.5	+ 2 16.6	7.7	87.0	8.1	
2509	11 56 48.5	+ 2 16.6	7.7	88.4	8.1	Look up on plate
2526	12 10 33.2	+ 2 23.9	8.0	27.0	8.0	" " " "
2517	12 2 16.6	+ 2 43.9	6.4	27.1	8.0	
2489	11 43 9.0	+ 2 35.6	3.3	87.2	8.0	
~~2533~~	~~12 14 26.0~~	~~+ 2 44.5~~	~~9.0~~	~~28.2~~	~~8.1~~	" " " "
2616	12 6 32.6	+ 3 4.7	7.0	26.9	8.0	" " " "
2544	11 47 42.1	+ 4 0.7	8.2	87.1	8.0	" " " "
2604	12 12 59.4	+ 4 7.2	5.2	27.0	8.0	
2585	12 5 5.9	+ 4 12.6	8.0	27.1	8.0	" " " "
2569	11 57 18.4	+ 4 23.4	7.5	87.1	8.0	
2556	11 52 31.9	+ 4 28.2	5.8	86.9	8.1	" " " "
2583	12 4 16.4	+ 4 51.5	7.3	27.1	8.1	
2543	11 56 21.0	+ 6 21.9	7.2	87.0	8.0	
2559	12 2 41.5	+ 6 36.2	6.5	26.9	8.0	"Look up on plate.
–						
2589	12 12 32.5	+ 6 28.1	7.8	26.9	8.0	
2599	12 15 10.7	+ 6 6.3	7.1	27.0	7.9	

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Plate 559.

V	H	Type	No Lines	K	Focus	Other Lines.	V	H	V	H
19.0	12.9	I	3	N	1	—	9.5	25.8	8.6	42.9
18.6	17.0	III	5	K=H	3	—	9.3	34.0	8.8	34.7
15.5	12.3	I?	2	N	1	—	7.8	24.6	10.3	44.1
15.7	14.7	I	2	N	1	—	7.8	29.4	10.3	39.3
14.8	14.8	I	2	N	1	—	7.4	29.6	10.7	39.1
14.9	13.1	I?	2	N	1	—	7.4	26.2	10.7	42.5
14.0	12.9	I	5	N	2	—	7.0	25.8	11.1	42.9
12.8	19.8	I	3	N	1	—	6.4	39.6	11.7	29.1
11.7	16.9	III	4	K=H	2	—	5.8	33.8	12.3	34.9
10.1	10.2	I	5	N	3	—	5.0	20.4	13.1	48.3
9.2	19.3	I	4	N	2	—	4.6	38.6	13.5	30.1
8.9	20.2	I	4	N	1	—	4.4	40.4	13.7	28.3
8.9	14.8	III?	1	N	1	—	4.4	29.6	13.7	39.1
8.1	17.4	I	7	K=.5H	3	—	4.0	34.8	14.1	33.9
7.8	17.2	I	10	K=.2H	5	—	3.9	34.4	14.2	34.3
7.0	21.2	I	3	N	1	—	3.5	42.4	14.6	26.3
6.1	9.9	I	7	N	3	—	3.0	19.8	15.1	48.9
5.8	16.4	I	6	K=.5H	2	—	2.9	32.8	15.2	35.9
4.9	14.8	?	3	N	1	—	2.4	29.8	15.7	38.9
4.8	11.5	I	4	N	2	—	2.4	23.0	15.7	45.7
4.4	10.5	I	4	N	2	—	2.2	21.0	15.9	47.7
3.6	11.2	I	3	N	2	—	1.8	22.4	16.3	46.3
2.4	17.4	I	9	N	4	—	1.2	34.8	16.9	33.9
2.2	9.4	III?	2	K=H	2	—	1.1	18.8	17.0	49.9

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D.M.	R. A.	Dec.	Mag.	H	V	
2925	14 42 37.8	+ 8 35.7	7.5	68.4	18.1	
2903	14 34 32.6	+ 8 47.0	5.5	68.5	18.1	
2752	14 44 2.1	+10 19.4	7.6	68.6	18.1	
2739	14 39 11.7	+10 15.5	7.5	68.6	18.1	
2737	14 38 55.8	+10 40.0	7.5	68.5	18.1	
2748	14 42 25.3	+10 39.4	7.0	68.6	18.1	
2730	14 42 48.4	+11 5.9	7.4	68.6	18.1	" " " "
2695	14 28 49.4	+11 42.5	7.5	68.4	18.1	
2729	14 34 46.9	+12 15.5	5.3	68.6	18.1	
2866	14 48 35.5	+13 1.0	6.5	69.0	18.0	" " " "
2820	14 29 46.8	+13 30.5	7.2	68.4	18.1	" " " "
2814	14 28 4.4	+13 45.2	7.0	68.5	18.2	
2838	14 38 56.0	+13 44.2	7.2	68.5	18.1	
2769	14 33 46.3	+14 9.4	6.5	68.6	18.2	
2770	14 34 14.4	+14 22.2	3.5	68.6	18.3	Look up on Chart
2746	14 25 54.7	+14 43.3	7.0	68.3	18.1	
2796	14 49 24.1	+15 2.4	6.2	69.2	18.0	" " " "
2749	14 35 51.4	+15 20.4	6.7	68.7	18.2	
2758	14 39 16.9	+15 44.9	5.5	69.1	18.2	
2784	14 46 8.4	+15 43.3	7.2	69.1	18.1	" " " "
2790	14 48 1.9	+15 55.0	7.5	69.0	18.1	" " " "
2705	14 46 36.0	+16 17.4	6.2	69.0	18.1	
2768	14 33 55.7	+17 3.0	3.8	68.7	18.2	
2715	14 50 25.9	+16 59.6	6.1	69.2	18.1	

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Plate 573.

V	H	Type	No. Lines	K	Focus	other Lines.	V	H	V	H
22.7	9.5	I	2	N	1	—	11.4	19.0	1.6	71.0
21.5	14.2	I	2	N	1	—	10.8	28.4	2.2	61.6
21.2	9.1	I	6	K=H	3	—	10.6	18.2	2.4	71.8
20.8	17.2	III	6	K=H	3	—	10.4	34.4	2.6	55.6
19.3	12.9	I	5	N	2	—	9.6	25.8	3.4	64.2
18.9	15.5	I	4	N	2	—	9.4	31.0	3.6	59.0
19.1	18.2	I	3	N	2	—	9.6	36.4	3.4	53.6
18.1	20.6	I	2	N	2	—	9.0	41.2	4.0	48.8
17.8	12.3	I	2	N	1	—	8.9	24.6	4.1	65.4
17.2	13.9	I	5	K=.8H?	2	—	8.6	27.8	4.4	62.2
17.0	15.7	I	2	N	1	—	8.5	31.4	4.5	58.6
16.6	15.7	I	5	N	2	Fline?	8.3	31.4	4.7	58.6
16.6	20.2	I	2	N	1	—	8.3	40.4	4.7	49.6
16.9	23.8	I	2	N	1	—	8.4	47.6	4.6	42.4
16.3	12.6	II?	2	K=H	1	—	8.2	25.2	4.8	64.8
15.9	19.0	III	3	K=H	2	—	8.0	38.0	5.0	52.0
15.4	17.0	I	3	N	2	—	7.7	34.0	5.3	56.0
15.2	11.1	III	5	K=H	3	—	7.6	22.2	5.4	67.8
14.0	20.3	I	4	N	2	—	7.0	40.6	6.0	49.4
14.0	20.1	I	2	N	1	—	7.0	40.2	6.0	49.8
14.0	16.6	I	6	K=.5H	3	—	7.0	33.2	6.0	56.8
14.0	15.5	I	4	N	2	—	7.0	31.0	6.0	59.0
14.0	14.8	III	4	K=H	2	—	7.0	29.6	6.0	60.4
14.0	20.3	I	4	N	2	—	7.0	40.6	6.0	49.4
12.6	21.5	III	2	N	2	—	6.3	43.0	6.7	47.0
12.1	10.7	III	2	N	2	—	6.0	21.4	7.0	68.6
9.6	19.7	I	3	N	1	—	4.8	39.4	8.2	50.6
9.5	20.3	I	2	N	1	—	4.8	40.6	8.2	49.4
12.9	24.1	I	2	N	2	—	6.4	48.2	6.6	41.8

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D.M.	R.A.			Dec.		Mag.	H	V
3059	15	11	1.3	+ 1	27.6	7.1	30.0	12.9
2919	15	1	35.8	+ 2	14.2	7.9	30.0	13.0
2944	15	11	57.2	+ 2	18.7	5.0	30.2	12.9
2905	14	55	35.2	+ 2	40.0	4.7	90.0	13.1
2992	15	4	13.2	+ 3	22.6	8.0	30.0	13.0
2974	14	59	10.2	+ 3	34.4	7.7	90.2	13.0
2966	14	53	45.2	+ 3	28.3	7.3	90.2	13.1
2956	14	49	1.2	+ 3	59.4	7.2	90.2	13.0
2980	15	5	30.5	+ 4	5.5	7.7	30.1	13.0
2970	15	2	12.6	+ 4	25.7	6.8	30.0	13.0
2963	14	58	39.6	+ 4	34.0	8.3	90.1	13.1
2964	14	58	45.1	+ 4	47.9	7.3	90.2	13.1
2940	14	49	41.6	+ 4	44.4	8.2	90.1	13.0
2974	14	42	28.6	+ 4	29.6	7.8	90.1	12.9
2977	15	4	58.1	+ 4	52.6	8.3	30.2	13.1
2954	14	52	9.1	+ 5	9.0	6.2	90.2	13.1
2962	14	56	7.5	+ 5	24.0	7.5	90.1	13.1
2985	15	8	0.5	+ 5	29.2	5.3	30.2	13.1
2945	14	49	31.1	+ 5	59.0	8.0	90.1	13.0
2963	14	49	53.4	+ 6	0.6	8.0	90.1	13.0
2983	14	56	56.5	+ 6	4.1	6.3	90.1	13.1
2995	14	59	7.5	+ 6	6.2	7.2	90.1	13.1
3001	15	0	29.4	+ 6	3.4	6.3	30.1	13.1
2945	14	49	31.1	+ 5	59.0	8.0	90.1	13.0
2957	14	46	30.4	+ 6	50.7	6.7	89.5	13.1
2926	15	8	45.8	+ 7	0.5	7.1	30.2	13.0
2948	14	50	39.6	+ 8	14.8	8.5	90.1	13.0
2944	14	49	23.9	+ 8	16.5	8.7	90.0	13.1
2948	14	41	42.5	+ 6	33.4	7.5	89.9	13.0

Look up on chart

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Plate 573.

V	H.	Type	No. Lines	K	Focus	other Lines.	V	H	V	H
8.3	12.4	I?	1	N	1	—	4.2	24.8	8.8	65.2
8.0	12.8	I	5	N	2	—	4.0	25.6	9.0	64.4
7.9	18.3	I	2	N	2	—	4.0	36.6	9.0	53.4
8.1	18.6	I	3	N	2	—	4.0	37.2	9.0	52.8
9.0	24.0	I	2	N	1	—	4.5	48.0	8.5	42.0
7.2	8.3	I	3	N	2	—	3.6	16.6	9.4	73.4
7.2	14.9	III	0	N	1	—	3.6	29.8	9.4	60.2
6.6	14.8	II	3	K=H	2	—	3.3	29.6	9.7	60.4
6.3	10.0	I	2	N	1	—	3.2	20.0	9.8	70.0
5.7	10.3	I	5	N	2	—	2.8	20.6	10.2	69.4
4.9	10.9	I	4	K=H	2	—	2.4	21.8	10.6	68.2
4.7	12.7	I	5	N	2	—	2.4	25.4	10.6	64.6
4.2	9.3	I	3	N	2	—	2.1	18.6	10.9	71.4
3.9	6.5	I	3	N	2	—	2.0	13.0	11.0	77.0
3.7	12.2	III	2	N	1	—	1.8	24.4	11.2	65.6
4.9	14.4	I	4	K=H	1	—	2.4	28.8	10.6	61.2
4.5	15.0	I	3	N	1	—	2.2	30.0	10.8	60.0
4.0	23.6	I	4	N	2	—	2.0	47.2	11.0	42.8
4.9	23.8	I	2	N	1	—	2.4	47.6	10.6	42.4

Plate 574.

22.3	12.5	III	3	K=H	6	—	11.2	25.0	12.0	25.8
22.5	15.7	III	4	K=H	2	—	11.2	31.4	12.0	19.4
22.1	22.0	I	3	N	1	—	11.0	44.0	12.2	6.8
21.8	24.0	I	3	N	2	—	10.9	48.0	12.3	2.8
20.5	8.5	I	6	N	3	—	10.2	17.0	13.0	33.8
20.5	13.0	I	2	N	1	—	10.2	26.0	13.0	24.8
20.0	9.6	I	4	K=H	1	—	10.0	19.2	13.2	31.6

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D.M.	R.A.			Dec.		Mag.	H	V	
2992	15	5	21.4	+ 8	58.9	8.8	30.2	13.2	Look up on Chart
3006	15	4	30.9	+ 9	4.3	8.2	30.1	13.1	" " " "
2983	14	53	32.6	+ 9	10.7	7.7	90.1	13.2	" " " "
2978	14	52	48.6	+ 9	2.8	8.1	90.0	13.0	" " " "
2923	14	41	59.6	+ 8	32.6	8.6	90.0	13.0	" " " "
3025	15	13	41.6	+ 9	27.0	7.9	30.3	13.0	" " " "
2999	15	0	17.5	+ 9	32.1	7.7	30.1	13.1	
2300	15	0	33.8	+ 9	47.8	7.0	30.2	13.1	" " " "
3016	15	10	20.5	+ 9	54.7	8.5	30.3	13.1	" " " "
2818	15	9	35.7	+10	14.5	7.0	30.2	13.0	
2816	15	8	37.0	+10	39.1	7.1	30.4	13.1	
2804	15	4	49.2	+10	46.0	7.1	30.2	13.2	" " " "
2823	15	11	45.8	+10	57.6	6.8	30.4	13.1	
2800	15	17	17.6	+11	4.1	7.3	30.3	13.1	
2780	15	5	51.1	+11	14.0	6.7	30.3	13.0	
2797	15	1	21.8	+10	41.0	8.0	30.2	13.1	
2789	15	0	13.6	+10	52.2	8.0	30.2	13.1	
2730	14	42	48.4	+11	5.9	7.4	90.0	13.1	
2748	14	42	25.3	+10	39.4	7.0	90.0	13.1	
3008	16	25	49.7	+11	48.8	5.2	50.8	23.0	
2984	16	19	23.1	+11	45.5	6.5	50.8	23.0	
2973	16	6	57.5	+12	4.0	9.4	51.0	23.1	
2954	16	2	38.8	+12	8.0	7.2	50.6	23.0	
3063	16	34	6.9	+12	42.1	6.0	51.1	22.9	
3031	16	24	53.0	+12	44.4	8.6	50.9	22.9	
~~3161~~	~~16~~	~~25~~	~~13.3~~	~~+13~~	~~11.1~~	~~9.2~~	~~51.2~~	~~23.1~~	
3054	16	31	46.1	+12	55.7	7.2	51.0	23.0	

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Plate 574.

V	H	Type	No. Lines	K	Focus	other Lines	V	H	V	H
19.6	9.1	I	2	N	1	—	9.8	18.2	13.4	32.6
19.5	22.1	I	3	N	2	—	9.8	44.2	13.4	6.6
19.1	19.6	I	3	N	1	—	9.6	39.2	13.6	11.6
19.5	24.0	I	2	N	1	—	9.8	48.0	13.4	2.8
18.6	12.0	III	2	N	1	—	9.3	24.0	13.9	26.8
18.0	6.8	I	3	N	1	—	9.0	13.6	14.2	37.2
18.0	10.0	I	7	K=H	3	—	9.0	20.0	14.2	30.8
18.1	14.4	I	6	K=.5H	2	—	9.0	28.8	14.2	22.0
18.5	17.7	I?	2	N	1	—	9.2	35.4	14.0	15.4
18.3	21.9	?	3	N	2	—	9.2	43.8	14.0	7.0
17.7	17.2	I	3	N	1	—	8.8	34.4	14.4	16.4
17.5	16.0	I	10	N	5	—	8.8	32.0	14.4	18.8
17.3	20.7	I	3	N	1	—	8.6	41.4	14.6	9.4
16.8	15.6	I	3	N	1	—	8.4	31.2	14.8	19.6
16.5	10.4	I	5	N	3	—	8.2	20.8	15.0	30.0
15.9	16.4	I	3	N	1	—	8.0	32.8	15.2	18.0
15.8	9.7	I	5	N	2	—	7.9	19.4	15.3	31.4
15.1	13.7	I	4	K=H	2	—	7.6	27.4	15.6	23.4
15.3	15.5	III	2	N	1	—	7.6	31.0	15.6	19.8
14.8	14.7	II?	3	?	2	—	7.4	29.4	15.8	21.4
14.6	14.5	II?	3	K=H	1	—	7.3	29.0	15.9	21.8
14.5	10.5	I	7	N	4	—	7.2	21.0	16.0	29.8
14.3	19.3	I	2	N	1	—	7.2	38.6	16.0	12.2
14.0	14.7	I	4	N	2	—	7.0	29.4	16.2	21.4
13.9	6.3	III	1	N	2	—	7.0	12.6	16.2	38.2
13.5	15.3	II?	4	?	2	—	6.8	30.6	16.4	20.2
13.0	9.5	?	1	N	1	—	6.5	19.0	16.7	31.8
12.6	13.1	III	2	N	1	—	6.3	26.2	16.9	24.6

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D.M.	R.A.	Dec.	Mag.	H	V	
3183	16 32 36.0	+ 13 20.4	8.0	50.8	23.1	
3089	16 6 11.4	+ 13 10.9	7.2	50.4	23.0	
3111	16 11 22.4	+ 13 31.8	8.4	50.6	23.1	
3075	16 2 26.4	+ 13 18.8	7.8	50.4	23.1	
3167	16 27 7.2	+ 13 42.8	7.2	51.1	23.0	
3207	16 37 52.0	+ 13 52.9	8.0	51.5	22.9	Look up on chart.
3177	16 31 6.6	+ 13 59.6	6.0	51.1	23.0	
3155	16 22 3.9	+ 13 56.4	7.2	50.9	22.9	
3126	16 15 11.8	+ 13 48.3	7.3	50.6	23.0	
3091	16 6 33.8	+ 13 54.5	6.7	50.4	23.1	
3042	16 16 24.6	+ 14 10.5	7.7	50.8	23.0	
3049	16 18 44.5	+ 14 22.2	5.2	50.7	23.2	Look up on chart.
3024	16 9 10.5	+ 14 22.5	8.1	50.6	23.0	
3056	16 19 29.6	+ 14 38.0	8.2	50.7	23.0	
3086	16 30 20.1	+ 14 46.3	6.8	51.1	23.0	" " " "
2994	16 18 3.5	+ 15 4.7	8.1	50.9	23.1	
3033	16 31 45.3	+ 15 4.3	7.8	51.2	23.0	" " " "
3011	16 23 34.1	+ 15 24.6	7.0	51.0	23.0	
3000	16 19 49.3	+ 15 25.9	7.5	50.8	23.0	
3007	16 21 29.6	+ 15 39.4	7.3	50.9	23.1	
3008	16 21 49.8	+ 15 46.3	7.5	50.8	23.1	
3029	16 30 8.1	+ 15 48.1	6.5	51.1	23.0	" " " "
2976	16 11 54.0	+ 15 54.0	8.5	50.5	23.1	" " " "
2949	16 21 26.4	+ 16 4.4	7.7	50.8	23.1	" " " "
3013	16 38 48.8	+ 16 1.1	6.1	51.4	23.0	
2943	16 20 6.5	+ 16 17.6	7.0	50.7	23.1	
2988	16 32 10.3	+ 16 30.7	8.4	51.2	23.0	" " " "
2961	16 24 51.5	+ 16 44.9	7.6	51.1	23.0	

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Plate 574.

V	H.	Type	No. Lines	K	Focus	other Lines	V	H	V	H
12.6	22.8	I	2	N	1	—	6.3	45.6	16.9	5.2
12.0	22.6	I	6	N	3	—	6.0	45.2	17.2	5.6
11.8	12.5	I	6	K=.5H	2	—	5.9	25.0	17.3	25.8
11.5	11.1	I	8	N	3	—	5.8	22.2	17.4	28.6
10.5	10.8	I	4	K=H	1	—	5.2	21.6	18.0	29.2
10.9	15.9	II?	3	K=H	1	—	5.4	31.8	17.8	19.0
11.2	24.2	III?	4	K=H	3	—	5.6	48.4	17.6	2.4
10.8	23.9	I	5	N	3	—	5.4	47.8	17.8	3.0
10.5	23.7	I	4	N	1	—	5.2	47.4	18.0	3.4
9.9	19.5	I	4	N	1	—	5.0	39.0	18.2	11.8
9.5	22.7	I	3	N	1	—	4.8	45.4	18.4	5.4
9.0	20.9	?	2	N	1	—	4.5	41.8	18.7	9.0
8.8	14.2	III	3	K=H	2	—	4.4	28.4	18.8	22.4
8.8	15.4	I	4	K=H	1	—	4.4	30.8	18.8	20.0
8.4	21.3	I	3	N	1	—	4.2	42.6	19.0	8.2
8.0	20.6	III	4	K=H	2	—	4.0	41.2	19.2	9.6
7.6	14.3	II	3	N	1	—	3.8	28.6	19.4	22.2
7.4	17.5	I	10	N	5	—	3.7	35.0	19.5	15.8
6.6	17.0	I	5	N	2	—	3.3	34.0	19.9	16.8
6.5	20.2	I?	3	?	1	—	3.2	40.4	20.0	10.4
6.0	18.5	?	1	N	1	—	3.0	37.0	20.2	13.8
4.6	13.4	III	5	K=H	3	—	2.3	26.8	20.9	24.0
4.0	7.3	I	2	N	1	—	2.0	14.6	21.2	36.2
4.0	10.7	I	4	N	1	—	2.0	21.4	21.2	29.4
3.8	14.7	I	2	N	1	—	1.9	29.4	21.3	21.4
3.3	18.3	III	4	K=H	2	—	1.6	36.6	21.6	14.2
3.0	12.4	I	3	N	1	—	1.5	24.8	21.7	26.0
3.1	14.8	I	3	N	1	—	1.6	29.6	21.6	21.2

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D.M.	R.A.	Dec.	Mag.	H	V	
2901	16 5 39.1	+16 53.9	8.6	51.3	23.2	Look up on Chart
2982	16 4 54.8	+17 2.7	6.1	50.1	23.0	
3045	16 25 59.0	+17 9.0	7.6	51.0	23.0	
3053	16 28 56.2	+17 21.3	6.2	51.1	23.2	
3057	16 29 39.4	+17 46.6	7.6	51.3	23.0	
3022	16 18 58.1	+17 37.1	7.5	50.8	23.0	
2967	16 2 14.7	+17 36.6	7.5	50.6	23.2	" " " "
2969	16 2 34.2	+17 46.1	8.0	50.4	23.2	" " " "
2976	16 3 56.7	+17 55.1	9.0	51.3	23.1	" " " "
3155	16 11 22.2	+18 7.5	8.0	50.4	23.1	
3132	16 4 40.7	+18 18.9	7.7	50.1	23.1	
~~3138~~	~~16 5 33.7~~	~~+18 24.6~~	~~8.6~~	~~51.0~~	~~23.2~~	
3148	16 8 20.1	+18 34.7	7.5	51.1	23.1	
3182	16 22 30.5	+18 44.2	7.0	50.9	23.1	
3175	16 20 5.8	+18 44.6	8.1	50.9	23.1	
3141	16 7 26.6	+18 51.4	8.0	50.0	23.1	
3075	16 9 3.2	+19 11.8	6.0	50.3	23.2	
3107	16 22 14.1	+19 19.9	7.0	50.8	23.1	
3086	16 15 31.1	+19 30.3	3.0	50.5	23.2	
3081	16 16 42.5	+19 51.3	7.8	50.7	23.2	" " " "
~~3236~~	~~16 10 27.7~~	~~+20 9.8~~	~~8.8~~	~~50.9~~	~~23.4~~	
3077	16 10 31.6	+19 52.3	7.8	50.9	23.1	
3244	16 13 24.4	+20 10.5	7.9	50.4	23.2	
3283	16 24 16.0	+20 48.0	6.0	51.1	23.1	
2966	16 35 29.5	+21 18.1	8.7	50.1	23.3	
~~2972~~	~~16 36 24.6~~	~~+21 11.6~~	~~9.1~~	~~51.0~~	~~23.2~~	" " " "
2949	16 30 3.0	+21 3.1	8.3	51.4	23.1	
~~2947~~	~~16 29 23.7~~	~~+21 9.1~~	~~9.5~~	~~50.8~~	~~23.2~~	
2926	16 21 27.0	+21 12.8	8.2	50.8	23.1	
2902	16 13 48.4	+21 29.1	6.5	50.4	23.1	
2940	16 26 25.6	+21 35.0	8.5	51.2	23.1	" " " "
2924	16 21 9.0	+21 32.9	8.0	50.8	23.1	

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Plate 574.

V	H.	Type	No. Lines	K	Focus	other Lines		V	H	V	H
2.6	13.5	III?	4	K=H	5	Reen.		1.3	27.0	21.9	23.8
2.3	7.8	I	4	N	1	—		1.2	15.6	22.0	35.2
3.4	20.6	I	2	N	1	—		1.7	41.2	21.5	9.6
2.4	21.5	I	4	N	2	—		1.2	43.0	22.0	7.8

Plate 588.

	20.6	8.1	I	4	N	1	—		10.3	16.2	12.9	33.5
	18.1	9.6	I	2	N	1	—		9.0	19.2	14.2	30.5
One star.	~~17.5~~	~~14.6~~	~~I~~	~~2~~	~~N~~	~~1~~	~~—~~					
	~~17.5~~	~~15.1~~	~~I~~	~~6~~	~~N~~	~~4~~	~~—~~					
	17.5	15.7	I	4	N	4	—		8.8	31.4	14.4	18.3
	16.6	10.0	I	2	N	1	—		8.3	20.0	14.9	29.7
One star.	~~14.6~~	~~9.6~~	~~I~~	~~2~~	~~N~~	~~1~~	~~—~~					
	14.6	10.2	I	5	N	1	—		7.3	20.4	15.9	29.3
	13.5	15.0	I?	2	N	1	—		6.8	30.0	16.4	19.7
One star.	~~12.1~~	~~21.7~~	~~I~~	~~3~~	~~N~~	~~1~~	~~—~~					
	12.1	22.2	I	5	N	1	—		6.0	44.4	17.2	5.3
One star.	~~11.5~~	~~10.2~~	~~I~~	~~4~~	~~N~~	~~1~~	~~—~~					
	11.5	10.8	I	4	N	1	—		5.8	21.6	17.4	28.1
One star.	~~11.0~~	~~23.0~~	~~I~~	~~3~~	~~N~~	~~1~~	~~—~~					
	11.0	23.5	I	4	N	1	—		5.5	47.0	17.7	2.7
	11.3	23.9	III	2	N	1	—		5.6	47.8	17.6	1.9
	8.0	20.2	III?	1	N	1	—		4.0	40.4	~~19.2~~ 19.2	9.3
One star.	~~7.5~~	~~16.0~~	~~I~~	~~3~~	~~N~~	~~1~~	~~—~~					
	~~7.5~~	~~16.6~~	~~I~~	~~4~~	~~K=H~~	~~4~~	~~—~~					
	7.5	17.1	I	4	K=H	4	—		3.8	34.2	19.4	15.5
One star.	~~2.8~~	~~12.6~~	~~III~~	~~3~~	~~N~~	~~4~~	~~—~~					
	2.8	13.1	III	6	K=H	4	Reen		1.4	26.2	21.8	23.5
	4.8	13.0	?	1	N	1	—		2.4	26.0	20.8	23.7

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D.M.	R.A.	Dec.	Mag.	H	V	
2934	16 23 59.8	+21 49.3	2.5	51.0	23.1	
2962	16 34 14.3	+21 47.7	8.5	49.8	23.0	Look up in chart
2892	16 8 50.2	+21 24.3	8.8	50.0	23.1	" " " "
2886	16 6 51.9	+21 56.1	6.8	49.9	23.1	
3063	16 34 6.9	+12 42.1	6.0	50.3	23.0	
3177	16 31 6.6	+13 59.6	6.0	50.3	23.0	
3049	16 18 44.5	+14 22.2	5.2	50.1	23.2	
3086	16 30 20.1	+14 46.3	6.8	50.3	23.1	
~~3028~~	~~16 29 47.2~~	~~+15 50.1~~	~~8.7~~	~~50.2~~	~~23.1~~	
3029	16 30 8.1	+15 48.1	6.5	50.5	23.1	
2943	16 20 6.5	+16 17.6	7.0	50.1	23.1	
~~2983~~	~~16 4 58.5~~	~~+17 21.0~~	~~8.0~~	~~49.4~~	~~23.4~~	
2982	16 4 54.8	+17 21.7	6.1	49.3	23.0	
~~3054~~	~~16 28 56.2~~	~~+17 24.6~~	~~7.4~~	~~50.5~~	~~23.2~~	
3053	16 28 56.2	+17 21.3	6.2	50.5	23.2	
2967	16 2 14.7	+17 36.6	6.5	49.2	23.1	
~~2969~~	~~16 2 34.2~~	~~+17 46.1~~	~~8.0~~	~~49.6~~	~~23.1~~	
~~2965~~	~~16 1 32.2~~	~~+17 27.2~~	~~7.0~~	~~49.3~~	~~23.1~~	
~~2967~~	~~16 2 14.7~~	~~+17 36.6~~	~~6.5~~	~~50.0~~	~~23.2~~	
3075	16 9 3.2	+19 11.8	6.0	49.4	23.2	
~~3153~~	~~16 9 49.7~~	~~+18 7.9~~	~~8.5~~	~~50.2~~	~~22.1~~	
3086	16 15 31.1	+19 30.3	3.0	49.7	23.3	" " " "
2934	21 23 59.8	+21 49.3	2.5	50.2	23.2	
3283	16 24 16.0	+20 48.0	6.0	50.3	23.2	

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Plate 591

V	H.	Type	No. Lines	K	Focus	Other Lines.	V	H	V	H
6.7	20.1	III	5	K=H	2	seen	3.4	40.2	9.6	50.8
5.1	21.9	I	6	N	2	—	2.6	43.8	10.4	47.2
10.7	23.9	I	4	N	1	—	5.4	47.8	7.6	43.2

Plate 604.

22.7	7.2	I	5	N	3	—	11.4	14.4	1.4	54.5
21.6	13.4	I	2	N	1	—	10.8	26.8	2.0	42.1
21.4	10.3	I	2?	N	1	—	10.7	20.6	2.1	48.3
21.0	9.2	I	3	N	1	—	10.5	18.4	2.3	50.5
20.5	15.8	I	5	N	2	—	10.2	31.6	2.6	37.3
20.2	14.2	I	8	N	4	—	10.1	28.4	2.7	40.5
20.5	5.4	?	2	N	2	—	10.2	10.8	2.6	58.1
19.8	7.8	I	7	N	4	—	9.9	15.6	2.9	53.3
19.6	12.0	I	3	N	1	—	9.8	24.0	3.0	44.9
20.0	22.6	I?	2	N	1	—	10.0	45.2	2.8	23.7
18.0	14.0	I	5	N	2	—	9.0	28.0	3.8	40.9
17.0	8.0	I	4	N	3	—	8.5	16.0	4.3	52.9
16.9	13.3	?	2	N	1	—	8.4	26.6	4.4	42.3
16.7	14.5	I	2	N	1	—	8.4	29.0	4.4	39.9
16.6	16.4	III	5	K=H	4	Reen	8.3	32.8	4.5	36.1
16.0	11.3	I?	2	N	1	—	8.0	22.6	4.8	46.3
15.4	10.1	?	1	N	1	—	7.7	20.2	5.1	48.7
14.6	15.0	I	5	N	2	—	7.3	30.0	5.5	38.9
14.3	13.7	I	4	N	1	—	7.2	27.4	5.6	41.5
14.3	14.5	I	3	N	1	—	7.2	29.0	5.6	39.9
14.0	14.7	I	4	N	2	—	7.0	29.4	5.8	39.5
14.0	15.1	I	4	N	1	—	7.0	30.2	5.8	38.7

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D.M.	R.A.		Dec.	Mag.	H	V
3298	16	50 48.3	+ 9 36.3	3.0	91.0	13.0
3092	16	47 8.6	+ 10 24.8	4.1	91.0	13.0
3256	16	43 16.7	+ 7 30.9	6.0	91.1	12.9
3560	17	54 24.2	+ 1 18.7	4.5	68.8	12.7
3406	17	42 0.4	+ 2 1.0	6.8	68.8	12.8
3427	17	48 18.6	+ 2 7.4	7.1	69.1	12.8
3436	17	50 33.2	+ 2 17.0	7.0	69.0	12.8
3390	17	37 17.7	+ 2 39.9	6.5	68.9	12.9
3391	17	37 18.7	+ 2 39.9	6.5	68.9	12.9
3403	17	40 37.4	+ 2 45.2	3.5	69.0	12.9
3482	17	58 7.9	+ 2 32.7	4.0	68.9	12.7
3458	17	53 23.4	+ 2 55.4	4.0	69.0	12.8
3512	17	45 11.1	+ 3 2.6	7.9	69.2	12.8
3337	17	24 5.9	+ 2 50.8	5.5	69.3	12.8
3493	17	41 8.0	+ 3 51.9	6.9	69.1	12.9
3570	17	53 5.9	+ 4 22.1	5.3	69.1	12.9
3517	17	42 25.0	+ 4 25.2	7.7	69.0	12.8
3506	17	39 59.7	+ 4 29.2	8.1	69.0	12.9
3489	17	36 19.5	+ 4 37.7	3.0	69.1	12.9
3543	17	46 26.7	+ 4 53.7	8.0	69.0	12.9
3544	17	48 56.0	+ 5 12.1	8.0	69.1	12.9
3483	17	39 0.7	+ 5 35.5	7.5	69.0	12.9
3504	17	41 37.9	+ 5 44.9	8.2	69.0	12.9
3491	17	39 39.8	+ 5 37.2	8.3	68.7	12.8
3490	17	39 35.5	+ 5 49.8	7.1	69.0	12.8
3482	17	38 51.4	+ 5 45.2	7.8	69.1	12.8

look up on plate.

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Plate 604.

V	H	Type	No Lines	K	Focus	other Lines	V	H	V	H
14.0	15.3	I	4	N	1	—	7.0	30.6	5.8	38.3
14.1	15.9	I	3	N	1	—	7.0	31.8	5.8	37.1
14.0	16.1	I?	2	N	1	—	7.0	32.2	5.8	36.7
13.7	17.4	I	3	N	1	—	6.8	34.8	6.0	34.1
13.5	16.0	I	3	N	1	—	6.8	32.0	6.0	36.9
13.4	14.7	I	4	N	1	—	6.7	29.4	6.1	39.5
13.5	20.6	?	1	N	1	—	6.8	41.2	6.0	27.7
13.0	17.3	III	1	N	1	—	6.5	34.6	6.8	34.3
13.5	11.5	I	5	K=H	2	—	6.8	23.0	6.0	45.9
13.1	7.6	I	5	N	2	—	6.6	15.2	6.2	53.7
12.9	8.3	I	2	N	1	—	6.4	16.6	6.4	52.3
12.6	8.0	I	5	N	2	—	6.3	16.0	6.5	52.9
12.7	9.6	I	6	N	2	—	6.4	19.2	6.4	49.7
12.6	19.0	I	4	N	1	—	6.3	38.0	6.5	30.9
11.2	12.7	I	3	N	1	—	5.6	25.4	7.2	43.5
11.0	12.0	I	4	N	1	—	5.5	24.0	7.3	44.9
10.9	19.6	I	3	N	1	—	5.4	39.2	7.4	29.7
10.0	18.0	III?	2	N	1	—	5.0	36.0	7.8	32.9
9.9	11.0	?	1	N	1	—	5.0	22.0	7.8	46.9
8.9	6.3	I	4	N	1	—	4.4	12.6	8.4	56.3
8.7	12.4	I	5	?	1	—	4.4	24.8	8.4	44.1
8.0	7.9	I	3	N	1	—	4.0	15.8	8.8	53.1
8.0	11.9	I	3	N	1	—	4.0	23.8	8.8	45.1
8.0	15.0	I	2	N	1	—	4.0	30.0	8.8	38.9
6.9	16.7	I	4	N	2	—	3.4	33.4	9.4	35.5
6.7	12.6	I	4	N	1	—	3.4	25.2	9.4	43.7
6.6	20.5	I	6	N	3	—	3.3	41.0	9.5	27.9
6.2	13.9	I	4	?	2	—	3.1	27.8	9.7	41.1

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DM.	R.A.		Dec.		Mag.	H	V	
3478	17	38 27.9	+ 5	46.6	7.8	69.1	12.8	
3471	17	37 10.4	+ 5	47.1	8.2	69.0	12.8	
3466	17	36 46.0	+ 5	54.9	8.0	69.0	12.9	
3494	17	34 11.0	+ 6	0.8	7.9	69.0	12.8	
3514	17	36 58.7	+ 6	7.8	8.0	69.0	12.9	
3525	17	39 31.6	+ 6	10.8	7.9	68.9	12.9	
3456	17	27 44.5	+ 6	7.8	8.0	68.9	12.9	
3498	17	34 27.7	+ 6	23.5	6.5	69.1	12.9	
3566	17	46 11.1	+ 6	7.8	5.9	69.2	12.9	
3597	17	53 48.4	+ 6	16.5	7.0	69.0	12.9	
3589	17	52 24.2	+ 6	26.0	7.2	69.0	12.8	
3593	17	53 6.2	+ 6	34.0	7.5	69.1	12.9	
3578	17	49 54.9	+ 6	30.5	6.8	69.1	12.9	
3476	17	30 58.2	+ 6	34.0	8.2	69.0	12.9	
3481	17	43 34.6	+ 7	16.2	7.8	69.0	12.9	
3488	17	44 55.4	+ 7	26.3	7.1	68.9	12.9	
3413	17	29 34.1	+ 7	28.6	8.0	68.8	12.9	
3434	17	32 57.9	+ 7	52.7	7.2	69.0	12.9	
3503	17	46 57.7	+ 7	57.8	7.5	69.0	13.0	
3567	17	56 24.6	+ 8	24.9	7.0	69.0	12.8	
3511	17	44 7.6	+ 8	35.0	7.0	68.9	13.0	
3555	17	53 17.6	+ 8	51.6	7.0	69.1	12.9	
3519	17	45 12.1	+ 8	51.9	7.8	69.0	12.9	
3487	17	39 0.5	+ 8	58.4	8.2	69.0	13.0	
3451	17	35 29.9	+ 9	31.2	8.2	68.9	12.9	
3488	17	43 44.7	+ 9	36.3	7.8	68.9	13.0	
3424	17	27 44.4	+ 9	42.0	6.7	68.7	13.0	
3471	17	41 8.6	+ 9	50.5	7.0	68.9	12.9	

Look upon Chart.

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Plate 604.

V	H.	Type	No. Lines	K	Focus	other Lines.	V	H	V	H
6.1	12.9	III?	2	N	1	—	3.0	25.8	9.8	43.1
5.6	19.4	I	3	N	1	—	2.8	38.8	10.0	30.1
5.0	16.3	I	2	N	1	—	2.5	32.6	10.3	36.3
4.5	23.4	I	3	N	1	—	2.2	46.8	10.6	22.1
3.8	9.2	I	5	N	2	—	1.9	18.4	10.9	50.5
3.5	10.8	I	4	K=.8H?	2	—	1.8	21.6	11.0	47.3
3.1	7.2	I	2	N	1	—	1.6	14.4	11.2	54.5
3.9	11.2	I?	2	N	1	—	2.0	22.4	10.8	46.5
2.7	23.8	I	3	N	1	—	1.4	47.6	11.4	21.3
3.8	23.1	I	3	N	1	—	1.9	46.2	10.9	22.7
1.8	21.6	I	1	N	2	—	0.9	43.2	11.9	25.7
1.8	22.5	I	1	N	2	—	0.9	45.0	11.9	23.9
2.0	12.5	?	1	N	1	—	1.0	25.0	11.8	43.9

Plate 592.

10.5	7.5	I	5	N	2	—	5.2	15.0	12.0	15.8
6.9	9.7	III	6	K=H	2	—	3.4	19.4	13.8	11.4
10.7	9.2	I	2	N	1	—	5.4	18.4	11.8	12.4

Plate 526.

22.1	14.8	I	4	N	2	—	11.0	29.6	1.9	48.9
21.4	7.2	I	2	N	1	—	10.7	14.4	2.2	64.1
21.2	12.2	I	9	K=.2H	5	—	10.6	24.4	2.3	54.1
19.5	6.9	I	7	N	5	—	9.8	13.8	3.1	64.7
18.4	14.7	I	4	N	1	—	9.2	29.4	3.7	49.1
17.3	21.5	I	3	N	2	—	8.6	43.0	4.3	35.5

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DM.	R.A.	Dec.	Mag.	H	V
3485	17 43 17.8	+ 9 54.3	7.0	69.1	12.9
3251	17 30 4.1	+ 10 8.2	8.2	68.9	13.0
3272	17 36 17.0	+ 10 25.9	8.5	68.9	12.9
3216	17 21 57.5	+ 10 39.8	7.2	68.8	12.9
3299	17 50 40.0	+ 11 4.8	6.5	69.1	13.0
~~3337~~	~~17 50 39.6~~	~~+ 10 58.4~~	~~8.1~~	~~69.0~~	~~12.9~~
3283	17 47 27.7	+ 11 11.0	6.5	69.1	13.0
3315	17 54 46.6	+ 11 17.8	7.5	69.2	12.9
3315	17 46 35.6	+ 10 59.6	8.5	69.0	13.0
3184	17 21 5.9	+ 11 30.8	7.0	68.7	12.9
3187	17 22 25.2	+ 11 1.4	7.5	68.6	12.9
3241	17 25 30.8	+ 12 2.7	6.7	68.7	12.9
3234	17 23 37.8	+ 12 3.2	6.5	68.6	13.0
3305	17 43 58.5	+ 12 0.1	6.4	69.0	13.0

3442	18 15 50.9	+ 11 58.1	6.0	30.8	17.2
3593	18 11 25.7	+ 13 43.6	6.1	30.8	17.1
3427	18 12 49.5	+ 11 48.8	7.3	31.2	17.2

2865	13 49 6.6	+ 1 45.6	5.8	78.7	12.8
2783	14 4 10.0	+ 2 2.9	6.6	78.6	12.7
2761	13 54 17.0	+ 2 15.0	4.2	78.7	12.8
2867	14 4 56.5	+ 3 5.5	4.8	78.7	12.9
2834	13 49 21.0	+ 3 41.5	7.2	78.7	12.9
2775	13 35 47.3	+ 4 16.6	5.7	78.8	12.9

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Plate 526

V	H	Type	No. Lines	K	Focus	Other Lines.	V	H	V	H
14.6	11.0	I	4	?	2	—	7.3	22.0	5.6	56.5
13.5	17.7	?	2	N	2	—	6.8	35.4	6.1	43.1
11.6	18.2	I	4	N	2	—	5.8	36.4	7.1	42.1
11.6	19.4	I	3	N	2	—	5.8	38.8	7.1	39.7
9.3	11.1	III?	1	N	1	—	4.6	22.2	8.3	56.3
8.5	18.6	I	3	N	2	—	4.2	37.2	8.7	41.3
7.6	18.0	I	5	N	2	—	3.8	36.0	9.1	42.5
7.6	21.7	I	3	N	2	—	3.8	43.4	9.1	35.1
6.8	12.2	I	6	K=.2H	3	—	3.4	24.4	9.5	54.1
5.0	11.6	I	3	N	1	—	2.5	23.2	10.4	55.3
4.1	15.9	I	1	N	1	—	2.0	31.8	10.9	46.7
2.9	23.0	I	4	K=H	2	—	1.4	46.0	11.5	32.5
2.9	11.1	?	1	N	1	—	1.4	22.2	11.5	56.3

Plate 575.

22.0	20.8	I	2	N	1	—	11.0	41.6	7.3	6.9
20.1	17.6	III?	1	N	1	—	10.0	35.2	8.3	13.3
20.0	22.2	I	3	N	1	—	10.0	44.4	8.3	4.1
18.5	18.5	I?	2	N	1	Bright Lines?	9.2	37.0	9.1	11.5
18.1	21.0	I?	2	N	2	Bright Lines?	9.0	42.0	9.3	6.5
17.8	11.5	III	3	K=H	2	—	8.9	23.0	9.4	25.5
17.5	16.1	I	5	N	2	—	8.6	32.2	9.7	16.3
17.3	19.1	I	3	N	1	—	8.6	38.2	9.7	10.3
16.7	14.1	I	2	N	1	—	8.4	28.2	9.9	20.3
16.5	15.8	I	4	N	2	—	8.2	31.6	0.1	16.9
16.5	18.7	III	?	N	2	—	8.2	37.4	0.1	11.1
16.6	9.7	I	3	N	2	—	8.3	19.4	0.0	29.1

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Dm.	R.A.			Dec.		Mag.	H	V	
2836	13	56	40.5	+ 5	35.5	6.5	78.7	12.9	
2800	13	43	8.4	+ 6	12.7	6.4	78.5	13.0	
2701	13	42	14.5	+ 7	3.9	6.8	78.6	12.9	
2690	13	39	47.1	+ 7	5.1	6.5	78.6	12.9	
2810	13	56	25.2	+ 8	14.0	7.0	78.6	12.8	
2767	13	41	20.7	+ 8	41.5	7.5	78.5	12.9	Looks up on Chart.
2814	13	42	33.8	+ 9	8.7	6.9	78.6	12.9	
2798	13	35	4.6	+ 9	7.4	6.5	78.5	12.9	
2835	13	54	11.0	+ 9	35.9	6.0	78.6	13.0	
2617	13	55	26.0	+ 10	23.4	6.6	78.6	12.9	
2603	13	44	47.8	+ 10	50.9	8.2	78.6	12.8	Looks upon plate
2604	13	46	48.5	+ 10	57.7	8.2	78.6	13.0	
2589	13	37	24.8	+ 11	29.1	5.7	78.4	12.9	
2625	13	56	25.8	+ 11	29.9	7.0	78.6	12.9	✓

3960	15	6	56.7	− 2	49.3	6.7	48.5	18.2	Looks in southern Dru.
3047	15	13	18.8	− 1	52.1	6.5	48.5	8.1	
3030	15	4	4.9	− 1	42.7	7.0	48.5	8.3	
3045	15	11	27.2	− 1	3.9	7.3	48.5	8.1 ~~7.9~~	
2944	15	6	35.0	− 0	47.2	7.0	48.6	8.2	" " " "
2982	15	25	30.6	− 0	41.0	6.0	48.5	8.2 ~~8.3~~	
2961	15	16	15.8	− 0	31.3	6.5	48.5	8.1	
2948	15	10	14.6	− 0	27.4	7.7	48.4	8.1	
2971	15	20	19.6	− 0	7.0	8.3	48.5	8.3	
2963	15	16	56.0	− 0	0.9	7.7	48.5	8.2	" " " "
3337	15	11	0.3	+ 0	5.6	6.2	48.4	8.3	
2988	15	29	7.6	− 0	4.7	6.8	48.5	8.2	✓

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Aug. 9. 1886.

Plate 575.

V	H	Type	Arc Lines	K	Focus	other Lines.	V	H	V	H
16.0	8.4	I?	1	N	1	—	8.0	16.8	0.3	31.7
14.9	20.1	I	7	K=.5H	3	—	7.4	40.2	0.9	8.3
14.6	20.8	I	3	N	1	—	7.3	41.6	1.0	6.9
14.6	6.9	I	3	N	2	—	7.3	13.8	1.0	34.7
14.3	13.7	I	3	N	2	—	7.2	27.4	1.1	21.1
14.5	16.4	I	2	N	1	—	7.2	32.8	1.1	15.7
14.0	17.4	III	6	K=H	2	—	7.0	34.8	1.3	13.7
13.6	18.7	I	2	N	1	—	6.8	37.4	1.5	11.1
13.0	10.0	I	4	N	2	—	6.5	20.0	1.8	28.5
12.5	7.7	I	2	N	1	—	6.2	15.4	2.1	33.1
12.2	10.4	I	5	K=H	2	—	6.1	20.8	2.2	27.7
12.0	13.6	I	8	K=.8H	3	—	6.0	27.2	2.3	21.3
12.0	18.3	I or II?	6	?	3	—	6.0	36.6	2.3	11.9
10.5	13.7	I	2	N	1	—	5.2	27.4	3.1	21.1
9.8	13.8	I	2	N	1	—	4.9	27.6	3.4	20.9
9.9	15.7	I	2	N	1	—	5.0	31.4	3.3	17.1
8.5	21.5	I?	1	N	1	—	4.2	43.0	4.1	5.5
6.1	10.6	I	4	N	2	—	3.0	21.2	5.3	27.2
5.8	20.3	III	4	K=H	2	—	2.9	40.6	5.4	7.9
4.5	16.9	I	3	N	1	—	2.2	33.8	6.1	14.7
3.2	9.8	I	4	?	1	—	1.6	19.6	6.7	28.9
2.7	5.7	?	3	N	4	—	1.4	11.4	6.9	37.1
3.6	14.9	I	2	N	1	—	1.8	29.8	6.5	18.7
2.6	19.9	?	1	N	1	—	1.3	39.8	7.0	8.7
3.6	16.3	I	2	N	1	—	1.8	32.6	6.5	15.9

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D.M.	R.a.	Dec.	Mag.	H	V	
3387	15 31	36.5 +0	9.2 8.0	48.4	8.2	
3327	15 8	26.1 +0	55.0 5.9	48.6	8.3	
3322	15 6	57.2 +0	54.1 8.1	48.5	8.2	
3389	15 34	37.6 +0	55.2 7.5	48.4	8.2	Look upon Chart.
3087	15 21	10.6 +1	6.2 7.9	48.6	8.3	" " " "
3349	15 15	39.2 +0	58.8 7.5	48.5	8.2	
3067	15 13	39.6 +1	14.4 6.1	48.5	8.2	
3059	15 11	1.3 +1	27.6 7.1	48.4	8.3	
3101	15 28	28.5 +1	42.6 7.1	48.5	8.2	
3110	15 33	0.8 +1	56.2 8.2	48.4	8.1	
2977	15 27	46.6 +2	9.1 7.1	48.6	8.3	
2965	15 21	20.2 +2	20.3 6.3	48.5	8.3	
2944	15 11	57.2 +2	18.7 5.0	48.6	8.3	
2964	15 21	14.0 +2	59.9 8.6	48.6	8.2	" " " "
3034	15 20	56.1 +3	22.1 8.2	48.5	8.3	
3020	15 17	2.5 +3	18.3 8.7	48.4	8.3	" " " "
2980	15 5	30.0 +4	5.5 7.7	48.5	8.3	
3037	15 27	22.4 +5	12.8 7.5	48.6	8.2	" " " "
2985	15 8	0.5 +5	29.2 5.3	48.6	8.3	
3026	15 14	50.8 +6	7.4 7.8	48.6	8.3	
3069	15 28	56.4 +6	38.7 7.5	48.5	8.2	
3088	15 37	9.6 +6	53.1 2.2	48.6	8.3	
3041	15 18	44.6 +6	27.9 8.7	48.5	8.3	" " " "
2926	15 8	45.8 +7	0.5 7.1	48.6	8.3	
3030	15 16	0.6 +6	34.3 8.2	48.6	8.4	

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Aug. 9, 1886.

Plate 630.

V	H	Type	No. Lines	K	Focus	Other Lines.	V	H	V	H
20.6	20.8	I	7	N	5	—	10.3	41.6	12.8	28.2
18.5	16.2	I	3	N	1	—	9.2	32.4	13.9	37.4
17.5	16.6	I	5	?	1	—	8.8	33.2	14.3	36.6
17.3	16.2	I	5	N	1	—	8.6	32.4	14.5	37.4
16.8	9.3	I	3	N	1	—	8.4	18.6	14.7	51.2
15.7	17.6	I	6	N	2	—	7.8	35.2	15.3	34.6
14.2	17.2	I	6	K=H	2	—	7.1	34.4	16.0	354
12.6	8.5	III	4	K=H	2	—	6.3	17.0	16.8	52.8
13.4	21.2	III?	4	K=H	1	—	6.7	42.4	16.4	27.4
13.0	20.8	I	4	N	1	—	6.5	41.6	16.6	28.2
12.8	12.3	I	2	N	1	—	6.4	24.6	16.7	45.2
12.4	12.1	I	4	K=H?	1	—	6.2	24.2	16.9	45.6
11.6	17.0	I	4	N	1	—	5.8	34.0	17.3	35.8
10.9	14.7	I	7	K=½H	3	—	5.4	29.4	17.7	40.4
9.6	11.0	I	2	N	1	—	4.8	22.0	18.3	47.8
9.5	10.2	I	4	N	1	—	4.8	20.4	18.3	49.4
8.5	14.4	I	5	N	2	—	4.2	28.8	18.9	41.0
7.7	13.8	I	7	K=½H	2	—	3.8	27.6	19.3	42.2
7.7	21.2	I or II?	5	K=H	2	—	3.8	42.4	19.3	27.4
7.1	8.3	I	5	N	1	—	3.6	16.6	19.5	53.2
6.9	7.0	I	5	N	1	—	3.4	14.0	19.7	55.8
5.1	14.0	III?	2	N	1	—	2.6	28.0	20.5	41.8
4.5	7.4	I	5	N	3	—	2.2	14.8	20.9	55.0
4.1	19.8	I	4	N	1	—	2.0	39.6	21.1	30.2
5.8	24.2	I	4	N	2	—	2.9	48.4	20.2	21.4
3.0	7.9	I	5	N	3	—	1.5	15.8	21.6	54.0

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D.M.	R.A.	Dec.	Mag.	H	V	
3252	17 28 12.2	+ 12 40.0	2.0	69.8	23.0	
3444	17 37 40.5	+ 13 52.3	7.2	70.1	23.1	
3321	17 36 45.7	+ 14 21.9	6.0	70.0	23.2	
3329	17 37 41.5	+ 14 28.8	6.0	70.1	23.1	
~~3375~~	~~17 51 48.1~~	~~+ 14 37.3~~	~~9.8~~	~~70.4~~	~~23.2~~	
3374	17 51 45.0	+ 14 31.5	6.5	70.3	22.9	
3246	17 34 37.2	+ 15 15.2	6.0	69.8	23.1	
3256	17 35 28.7	+ 16 3.3	5.1	69.9	23.2	
3335	17 53 36.2	+ 16 46.7	4.9	70.6	23.1	
3318	17 27 10.1	+ 16 26.7	5.0	69.6	23.1	
3320	17 27 59.1	+ 16 37.0	6.8	69.6	23.1	
3295	17 45 35.5	+ 16 41.0	7.5	70.2	23.1	
3300	17 46 5.1	+ 16 56.5	6.7	70.3	23.1	
3312	17 35 50.8	+ 17 18.3	7.0	69.8	23.1	
3334	17 40 44.9	+ 17 47.2	5.5	70.1	23.2	
3495	17 48 20.2	+ 18 12.9	8.0	70.3	23.0	
3500	17 50 4.3	+ 18 22.1	6.8	70.5	23.2	
3464	17 41 13.5	+ 18 57.0	6.5	70.0	23.1	
3435	17 42 30.4	+ 19 17.9	6.0	70.1	23.1	
3354	17 27 5.2	+ 19 21.8	5.0	69.5	23.2	
3494	17 54 11.2	+ 19 31.2	6.5	70.8	23.1	
Probably 3508, but possibly 3509. 3508	17 57 0.6	+ 19 35.3	6.5	71.0	23.0	
~~3509~~	~~17 57 4.7~~	~~+ 19 33.1~~	~~7.0~~	~~71.1~~	~~23.0~~	
~~3536~~	~~17 56 52.9~~	~~+ 19 41.6~~	~~7.8~~	~~70.9~~	~~23.1~~	
3570	17 42 11.5	+ 20 37.0	5.8	70.2	23.2	
3649	17 56 12.9	+ 20 51.7	5.2	71.0	23.1	Look up on plate.
3157	17 29 47.5	+ 21 5.7	6.0	69.4	23.1	
3481	17 20 33.9	+ 20 13.2	5.7	69.0	23.1	
3280	17 55 24.7	+ 21 36.7	4.2	71.2	23.1	Look up on plate

V

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Sept 20. 1886.

Plate 646

V	H	Type	No. Lines	K	Focus	Other Lines.	V	H	V	H
22.6	16.4	I	6	N	1	—	11.3	32.8	1.6	56.2
22.0	9.2	I	5	N	1	—	11.0	18.4	1.9	70.6
21.6	11.3	I	6	N	2	—	10.8	22.6	2.1	66.4
21.1	19.5	I	4	N	2	—	10.6	39.0	2.3	50.0
21.0	12.1	I	3	N	1	—	10.5	24.2	2.4	64.8
19.7	16.0	I	3	N	1	—	9.8	32.0	3.1	57.0
19.5	20.2	I	2	N	1	—	9.8	40.4	3.1	48.6
18.0	20.0	I	4	K=.5H	3	—	9.0	40.0	3.9	49.0
16.8	7.9	I	3	N	1	—	8.4	15.8	4.5	73.2
16.7	9.9	I	4	?	2	—	8.4	19.8	4.5	69.2
16.0	12.5	I?	2	N	1	—	8.0	25.0	4.9	64.0
15.5	11.2	I	5	N	2	—	7.8	22.4	5.1	66.6
14.3	13.6	I	5	K=.8H	3	—	7.2	27.2	5.7	61.8
14.0	14.4	I	4	N	1	—	7.0	28.8	5.9	60.2
13.9	18.9	I	3	N	1	—	7.0	37.8	5.9	51.2
13.3	9.8	I	4	N	2	—	6.6	19.6	6.3	69.4
13.2	20.3	III	2	N	2	—	6.6	40.6	6.3	48.4
12.5	14.2	I	3	N	1	—	6.2	28.4	6.7	60.6
12.1	14.8	I	3	N	1	—	6.0	29.6	6.9	59.4
11.0	11.0	I	3	N	1	—	5.5	22.0	7.4	67.0
9.2	11.7	I	3	N	1	—	4.6	23.4	8.3	65.6
7.2	15.4	I	4	N	1	—	3.6	30.8	9.3	58.2
7.4	13.9	?	1	N	1	—	3.7	27.8	9.2	61.2
6.6	6.7	I?	2	N	1	—	3.3	13.4	9.6	75.6
6.1	18.3	I	3	N	1	—	3.0	36.6	9.9	52.4
5.7	10.6	I	3	N	1	—	2.8	21.2	10.1	67.8
4.6	16.8	I	2	N	1	—	2.3	33.6	10.6	55.4
4.5	14.5	I	6	N	3	—	2.2	29.0	10.8	60.0

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DM.	R.A.		Dec.		Mag.	H	V	
3865	18	56 12.5	+ 1	36.4	6.0	89.0	12.9	
3960	19	10 29.1	+ 1	46.9	6.5	88.9	12.8	
3824	19	6 24.0	+ 2	2.9	5.6	89.0	12.8	
3738	18	49 59.2	+ 2	21.2	5.8	89.0	13.0	
3815	19	4 46.4	+ 2	23.2	7.0	29.0	12.9	
3882	18	56 55.0	+ 3	6.6	6.8	88.9	12.9	
3836	18	48 32.8	+ 3	16.2	7.1	88.9	13.1	
3916	18	49 0.8	+ 4	0.8	4.0	89.0	13.0	
4071	19	13 8.6	+ 4	31.4	6.8	28.9	12.9	
4045	19	9 20.9	+ 4	35.3	5.7	29.1	13.0	
4004	19	3 56.2	+ 4	56.7	7.5	28.9	12.9	
4081	19	6 36.2	+ 5	16.3	6.0	29.0	13.1	
4040	19	1 53.0	+ 5	51.5	5.0	29.1	13.1	
4035	19	0 20.5	+ 5	56.4	6.9	29.1	12.9	
3989	18	51 18.1	+ 6	3.1	6.8	89.1	13.1	
4075	19	9 29.4	+ 6	20.5	7.2	29.1	12.9	Took up on Chart.
3978	18	48 22.8	+ 6	26.6	5.8	89.0	13.0	
4026	19	0 35.5	+ 6	45.8	7.0	29.0	13.0	
4021	18	59 20.6	+ 6	56.3	7.2	89.0	12.9	
4002	19	7 10.6	+ 7	31.8	7.2	29.2	13.0	
4004	19	5 46.5	+ 8	22.1	8.0	29.2	13.0.	
3979	18	58 13.9	+ 9	26.0	7.0	89.1	13.0	
3992	19	1 17.8	+ 9	22.0	7.0	29.1	13.1	
4081	19	15 54.8	+ 9	38.1	6.5	29.3	12.9	
3951	18	52 26.7	+ 9	56.8	6.5	89.0	12.9	
3839	19	8 6.4	+ 10	9.8	7.0	29.3	13.0	
3762	18	55 23.6	+ 10	45.6	7.6	89.0	13.1	
3787	19	0 9.3	+ 10	51.2	5.2	29.2	13.1	V

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Plate 646.

V	H	Type	No. Lines	K	Focus	Other Lines.		V	H	V	H
3.9	15.2	I	3	N	1	—		2.0	30.4	10.9	58.6
4.0	16.0	I	3	N	1	—		2.0	32.0	10.9	57.0
3.5	8.1	I	4	N	2	—		1.8	16.2	11.1	72.8
3.4	9.1	I	6	K=.5H	2	—		1.7	18.2	11.2	70.8
20.0	5.3	I	4	N	3	—		10.0	10.6	2.9	78.4

Plate 698.

19.1	10.1	I	9	N	~~5~~	—		9.6	20.2	8.4	29.2
19.0	18.5	I	2	N	1	—		9.5	37.0	8.5	12.4
18.5	18.3	I	7	N	3	—		9.2	36.6	8.8	12.8
17.9	8.2	I	5	N	2	—		9.0	16.4	9.0	33.0
17.5	15.6	I	2	N	1	—		8.8	31.2	9.2	18.2
17.5	23.8	I	5	N	1	—		8.8	47.6	9.2	1.8
17.0	17.5	I	3	N	1	—		8.5	35.0	9.5	14.4
16.3	10.6	I	3	N	1	—		8.2	21.2	9.8	28.2
16.0	9.4	I	3	N	1	—		8.0	18.8	0.0	30.6
16.0	15.3	I	7	K=H	4	—		8.0	30.6	0.0	18.8
15.9	19.2	I	2	N	1	—		8.0	38.4	0.0	11.0
15.7	19.4	I	3	N	1	—		7.8	38.8	0.2	10.6
14.5	19.3	III	5	K=H	2	—		7.2	38.6	0.8	10.8
12.8	14.0	I	6	N	3	—		6.4	28.0	1.6	21.4
12.5	19.6	I	5	N	2	—		6.2	39.2	1.8	10.2
12.0	21.7	I	8	N	4	—		6.0	43.4	2.0	6.0
11.0	10.8	I	4	K=H	1	—		5.5	21.6	2.5	27.8
10.9	14.3	I	6	N	3	—		5.4	28.6	2.6	20.8
10.5	15.7	I	11	K=H	5	—		5.2	31.4	2.8	18.0
11.2	22.5	I	4	N	1	—		5.6	45.0	2.4	4.4
10.0	9.0	I	4	N	2	—		5.0	18.0	3.0	31.4

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Dk.	R.A.	Dec.	Mag.	H	V	
3727	18 58 41.6	+ 11 3.0	7.5	89.1	13.0	
3713	18 57 11.8	+ 11 5.5	7.2	89.2	13.1	
3802	19 13 4.0	+ 11 15.7	6.2	29.3	13.1	
3790	19 11 0.9	+ 11 20.5	5.4	29.2	13.0	
3879	19 18 11.4	+ 2 50.0	3.2	28.8	12.8	
3782	19 29 14.3	− 1 35.7	4.2	49.4	18.0	
3715	19 12 56.1	− 1 34.2	7.0	49.9	17.9	
3716	19 13 7.3	− 1 9.2	5.3	49.7	18.0	
3813	19 33 16.1	− 0 57.0	5.8	49.7	18.1	
3738	19 18 31.6	− 0 56.9	8.9	49.7	17.9	
3662	19 2 24.1	− 0 39.2	7.0	50.0	18.1	
3725	19 14 54.2	− 0 33.0	5.0	49.9	18.0	
3789	19 28 36.0	− 0 4.4	7.2	49.8	18.1	
4265	19 30 57.0	+ 0 1.4	7.0	49.7	8.0	
4206	19 19 6.8	+ 0 3.2	5.0	49.7	8.1	
4170	19 11 26.0	+ 0 4.9	7.0	49.8	8.1	
4166	19 11 6.7	+ 0 10.2	7.0	49.9	8.0	
4168	19 11 10.2	+ 0 49.8	5.0	49.8	8.0	
4010	19 21 41.1	+ 1 39.8	6.3	49.7	8.1	
3960	19 10 29.1	+ 1 46.9	6.5	49.7	8.0	
3824	19 6 24.0	+ 2 2.9	5.6	49.8	8.0	
2932	19 28 8.3	+ 2 35.9	7.2	49.7	8.1	
3892	19 21 4.4	+ 2 38.0	7.0	49.7	8.0	look up in Chart.
3879	19 18 11.4	+ 2 50.0	3.2	49.6	8.0	
3815	19 4 46.4	+ 2 23.2	7.0	49.8	8.0	
4097	19 31 34.3	+ 3 3.1	7.0	49.6	8.1	

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Plate 698.

V	H	Type	No. Lines	K	Focus	other Lines.		V	H	V	H
9.9	13.2	I	6	N	2	—		5.0	26.4	3.0	23.0
10.0	9.0	I	4	N	1	—		5.0	18.0	3.0	31.4
9.2	11.6	I	4	N	1	—		4.6	23.2	3.4	26.2
9.1	14.1	I	4	N	1	—		4.6	28.2	3.4	21.2
7.5	14.6	I	4	N	1	—		3.8	29.2	4.2	20.2
7.1	18.3	I	5	N	1	—		3.6	36.6	4.4	12.8
7.0	20.1	I	7	K=,2H	3	—		3.5	40.2	4.5	9.2
6.7	12.6	I	3	N	1	—		3.4	25.2	4.6	24.2
6.0	8.8	I	6	N	3	—		3.0	17.6	5.0	31.8
6.0	22.8	I	3	N	1	—		3.0	45.6	5.0	3.8
5.6	21.5	I	5	N	2	—		2.8	43.0	5.2	6.4
5.2	12.5	I	3	N	1	—		2.6	25.0	5.4	24.4
3.5	20.0	I	5	N	2	—		1.8	40.0	6.2	9.4
2.0	11.3	?	2	N	3	—		1.0	22.6	7.0	26.8

Plate 647

22.7	12.4	I	3	N	1	—		11.4	24.8	6.6	65.2
23.0	22.2	I	3	N	2	—		11.5	44.4	6.5	45.6
20.7	19.0	I	4	N	2	—		10.4	38.0	7.6	52.0
19.1	10.3	I?	2	N	1	—		9.6	20.6	8.4	69.4
18.6	8.9	I	3	N	1	—		9.3	17.8	8.7	72.2
18.5	13.2	I	11	N	5	—		9.2	26.4	8.8	63.6
18.1	14.8	I	4?	?	1	—		9.0	29.6	9.0	60.4
17.1	13.2	I	3	N	1	—		8.6	26.4	9.4	63.6
17.2	18.0	I	4	N	1	—		8.6	36.0	9.4	54.0
16.0	16.1	I	4	N	2	—		8.0	32.2	0.0	57.8
16.0	20.2	I	3	N	2	—		8.0	40.4	0.0	49.6
16.3	21.4	I	5	N	3	—		8.2	42.8	9.8	47.2

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Dm.	R.A.	Dec.	Mag.	H	V
4043	19 23 17.8	+ 3 8.4	7.0	49.7	8.1
4097	19 31 34.3	+ 3 3.1	7.0	49.6	8.1
4065	19 26 22.4	+ 3 27.5	7.4	49.6	8.1
4033	19 21 26.1	+ 3 24.6	8.1	49.6	8.0
4114	19 20 30.1	+ 4 25.5	6.7	49.7	8.2
4071	19 13 8.6	+ 4 31.4	6.8	49.7	8.1
4045	19 9 20.9	+ 4 35.3	5.7	49.5	8.1
4138	19 24 28.7	+ 4 43.1	7.8	49.7	8.1
4225	19 32 2.6	+ 5 4.0	5.0	49.6	8.1
4056	19 3 57.1	+ 5 2.4	7.4	49.6	8.0
4081	19 6 36.2	+ 5 16.3	6.0	49.6	8.1
4177	19 24 34.2	+ 5 27.9	7.0	49.6	8.1
4075	19 9 29.4	+ 6 20.5	7.2	49.5	8.1
4132	19 27 0.5	+ 7 4.3	4.8	49.6	8.1

Look up on Chart

4817	20 5 12.4	- 3 25.3	6.5		
~~Not in Dm.~~					
4742	19 45 43.0	= 3 29.2	6.2		
5159	19 52 10.0	= 2 21.1	7.0		
3938	20 9 28.3	- 1 39.0	7.8	30.1	18.0
3951	20 12 13.8	- 1 32.8	6.5	30.1	17.8
3911	20 3 49.5	- 1 14.8	3.3	30.2	18.0
3899	20 0 32.6	- 1 5.7	7.0	30.1	17.9
3934	20 3 52.7	- 0 33.3	8.2	30.3	18.0
3899	19 54 12.2	- 0 36.5	7.5	90.2	18.0
4411	19 57 55.9	+ 0 2.7	7.0	90.1	18.0
3881	19 49 47.8	- 0 2.0	7.0	90.2	18.0
3871	19 47 19.8	- 0 6.0	6.0	90.1	18.1

Look in southern Dm.

" " "

Look up on Chart

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V	H	Type	Lines	K	Focus	Other Lines.	V	H	V	H
15.5	9.5	I	4	N	1	—	7.8	19.0	0.2	71.0
15.1	12.5	I	5	N	2	—	7.6	25.0	0.4	65.0
14.7	6.5	I	5	N	2	—	7.4	13.0	0.6	77.0
14.9	22.6	III	6	K=H	4	—	7.4	45.2	0.6	44.8
13.5	8.0	I	4	N	1	—	6.8	16.0	1.2	74.0
13.6	22.8	I	3	N	1	—	6.8	45.6	1.2	44.4
12.8	10.5	I?	2	N	1	—	6.4	21.0	1.6	69.0
12.5	9.3	I	2	N	1	—	6.2	18.6	1.8	71.4
12.0	14.9	I	4	N	1	—	6.0	29.8	2.0	60.2
11.1	11.0	I	3	N	1	—	5.6	22.0	2.4	68.0
10.8	11.2	I	3	N	1	—	5.4	22.4	2.6	67.6
9.2	12.8	I	2	N	1	—	4.6	25.6	3.4	64.4
8.1	22.0	I	5	N	2	—	4.0	44.0	4.0	46.0
7.9	10.7	I	3	N	1	—	4.0	21.4	4.0	68.6
7.5	15.8	I	5	K=.5H	2	—	3.8	31.6	4.2	58.4
6.4	12.0	I	4	N	1	—	3.2	24.0	4.8	66.0
6.3	7.2	III	2	N	2	—	3.2	14.4	4.8	75.6
5.5	17.2	I	3	N	1	—	2.8	34.4	5.2	55.6
4.1	21.0	III	5	K=H	3	—	2.0	42.0	6.0	48.0
3.5	6.0	I	2	N	1	—	1.8	12.0	6.2	78.0
2.5	16.6	I?	2	N	1	—	1.2	33.2	6.8	56.8
2.7	21.3	I	5	N	2	—	1.4	42.6	6.6	47.4

Plate 677

22.5	9.3	I	4	N	1	—	11.2	18.6	31.6	52.2	17
22.7	12.6	I	3	N	1	—	11.4	25.2	31.4	45.6	19
22.0	15.1	I	2	N	1	—	11.0	30.2	31.8	40.6	19
21.4	16.6	I	7	K=2H	2	—	10.7	33.2	32.1	37.6	19

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Dm.	R.A.		Dec.		Mag.	H	V	
4475	20	11 13.3	+ 0	11.2	7.5	30.2	8.0	
4444	20	5 12.5	+ 0	26.3	6.9	30.2	8.0	
4495	20	17 15.2	+ 0	36.1	6.5	30.3	8.0	
4337	19	45 5.2	+ 0	38.2	var.	90.3	8.0	
4268	20	14 15.7	+ 1	12.8	7.5	30.3	8.0	
4122	19	44 39.5	+ 1	14.2	8.0	90.3	8.0	
4244	20	9 13.9	+ 1	37.1	8.3	30.2	8.0	
4255	20	11 40.4	+ 1	47.3	7.5	30.2	8.0	
4093	20	0 24.3	+ 2	2.2	7.1	30.2	8.0	
4124	20	8 14.5	+ 2	25.0	7.7	30.2	8.0	
4122	20	7 55.9	+ 2	37.2	8.3	30.3	8.0	
4281	20	4 37.7	+ 3	22.8	8.2	30.2	8.0	
4264	19	46 10.5	+ 4	2.3	6.5	90.2	8.0	
4395	20	8 54.4	+ 4	8.6	6.5	30.3	8.1	
4341	19	58 44.1	+ 4	22.0	7.0	90.3	8.2	look up in Chart
4385	20	6 12.1	+ 4	53.4	8.0	30.2	8.1	
4434	20	15 59.7	+ 4	53.2	5.5	30.4	8.1	
4393	19	55 52.8	+ 5	20.6	8.0	90.3	8.1	
4357	19	48 11.6	+ 6	3.0	4.0	90.2	8.0	
4522	20	18 18.0	+ 6	10.9	7.0	30.3	8.0	
4416	19	57 3.9	+ 6	52.7	6.0	90.3	8.1	
4351	19	47 35.1	+ 6	45.8	7.0	90.2	8.2	" " " "

19 54 +31.5 ~~3852 19 51 20 +31 38.7 8.0 69.6 42.8~~ 3878 19 53 58.2 +31 25.7 6.9 72.6 42.6

19 46 +31.4 3814 19 46 20.1 +31 20.2 7.5 71.5 42.7

19 409 +31.8 3765 19 40 40.1 +31 45.6 7.2 70.9 42.8

19 37 +32.1 3531 19 37 10.0 +32 5.1 6.0 70.4 42.8

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Plate 677.

V	H	Type	Hk. Lines	K	Focus	Other Lines.		V	H	V	H
21.5	18.3	I	5	N	1	—		10.8	36.6	32.0	34.2
20.5	9.2	I	3	N	1	—		10.2	18.4	32.6	52.4
20.4	9.4	I	3	N	1	—		10.2	18.8	32.6	52.0
20.0	10.9	I	4	N	1	—		10.0	21.8	32.8	49.0
20.6	14.9	III ?	1	N	1	—		10.3	29.8	32.5	41.0
20.0	17.0	I	4	N	1	—		10.0	34.0	32.8	36.8
19.3	10.9	I	3	N	1	—		9.6	21.8	33.2	49.0
19.5	14.0	I	3	N	1	—		9.8	28.0	33.0	42.8
19.0	15.0	I	7	K=H	3	—		9.5	30.0	33.3	40.8
19.5	19.2	I	4	N	1	—		9.8	38.4	33.0	32.4
19.8	20.4	I	2	N	1	—		9.9	40.8	32.9	30.0
19.3	21.4	I	5	N	1	—		9.6	42.8	33.2	28.0
18.4	17.8	I	6	N	2	—		9.2	35.6	33.6	35.2
18.5	18.3	I	3	N	1	—		9.2	36.6	33.6	34.2
18.1	16.0	I	6	N	3	—		9.0	32.0	33.8	38.8
18.0	19.7	I	5	N	1	—		9.0	39.4	33.8	31.4
18.0	12.4	I	3	N	1	—		9.0	24.8	33.8	46.0
17.8	10.2	I	3	N	1	—		8.9	20.4	33.9	50.4
17.5	10.1	I	4	N	1	—		8.8	20.2	34.0	50.6
17.4	6.2	?	1	N	2	—		8.7	12.4	34.1	58.4
17.2	11.9	I	4	N	1	—		8.6	23.8	34.2	47.0
17.5	16.4	I	4	N	1	—		8.8	32.8	34.0	38.0
17.4	21.0	I	7	N	4	—		8.7	42.0	34.1	28.8
16.8	19.5	I	5	N	1	—		8.4	39.0	34.4	31.8
16.5	15.2	III ?	4	?	1	—		8.2	30.4	34.6	40.4
16.3	10.9	III	6	K=1.2H	4	reen		8.2	21.8	34.6	49.0
15.7	8.6	I	3	N	1	—		7.8	17.2	35.0	53.6
15.5	9.9	I	5	N	1	—		7.8	19.8	35.0	51.0

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		DM.	R.A.	Dec.	Mag.	H	V	
19 33	+32.0	3506	19 33 4.5	+ 32 4.6	7.5	69.7	42.9	
19 54	+32.4	3662	19 54 29.5	+ 32 23.9	7.0	72.9	42.6	
		~~3658~~	~~19 53 58.9~~	~~+ 32 30.1~~	~~7.6~~	~~72.4~~	~~42.7~~	
19 54	+32.5	3658	19 53 58.9	+ 32 30.1	76	72.8	42.7	
		~~3634~~	~~19 50 32.4~~	~~+ 32 41.4~~	~~7.4~~	~~69.3~~	~~42.9~~	
19 50	+32.7	3634	19 50 32.4	+ 32 41.4	7.4	72.3	42.7	
		~~3618~~	~~19 48 53.3~~	~~+ 32 45.2~~	~~7.9~~	~~69.7~~	~~42.8~~	
19 41	+32.5	3558	19 41 1.9	+ 32 32.2	6.5	70.8	42.8	
?		3526	19 36 6.4	+ 32 44.4	7.0	70.1	42.7	Not on chart look up on plate again
19 50	+33.1	3656	19 50 36.1	+ 33 6.6	7.7	72.4	42.7	
		~~3642~~	~~19 48 38.9~~	~~+ 33 23.7~~	~~7.2~~	~~70.4~~	~~43.0~~	
19 43	+33.1	3602	19 43 18.7	+ 33 4.6	6.9	71.3	42.9	
19 41	+33.4	3587	19 40 56.3	+ 33 23.6	5.4	70.9	42.9	
19 30	+33.2	3518	19 30 49.5	+ 33 8.3	7.9	69.2	42.9	
		~~3539~~	~~19 33 19.8~~	~~+ 33 1.3~~	~~7.8~~	~~71.7~~	~~42.8~~	
19 26	+33.2	3487	19 25 49.2	+ 33 9.8	7.0	66.6	43.1	
		~~3444~~	~~19 28 2.9~~	~~+ 32 53.0~~	~~7.0~~	~~68.8~~	~~42.6~~	
19 25	+33.5	3480	19 24 51.6	+ 33 25.6	7.0	67.7	43.0	
		~~3499~~	~~19 27 49.7~~	~~+ 33 10.3~~	~~8.2~~	~~70.6~~	~~42.8~~	
19 34	+33.7	3547	19 34 18.2	+ 33 38.5	6.5	69.9	42.8	
19 32.5	+33.5	3529	19 32 33.7	+ 33 33.8	7.8	69.2	42.8	
		~~3533~~	~~19 32 59.6~~	~~+ 33 34.3~~	~~8.3~~	~~69.6~~	~~42.8~~	
19 38	+33.6	3587	19 40 56.3	+ 33 23.6	5.4	72.9	42.4	Look up on Chart.
		~~3572~~	~~19 38 24.3~~	~~+ 33 48.6~~	~~6.7~~	~~70.4~~	~~42.8~~	
19 29	+33.9	3505	19 28 45.1	+ 33 57.2	8.2	68.2	43.0	
		~~3529~~	~~19 32 33.7~~	~~+ 33 33.8~~	~~7.8~~	~~70.0~~	~~42.6~~	
19 47	+34.3	~~3768~~	~~19 47 26.1~~	~~+ 34 10.4~~	~~8.8~~	72.2	43.2	Look up on plate
		3633	19 47 18.3	+ 33 49.1	7.7	72.1	42.8	
19 53	34.0	~~3813~~	19 52 43.4	+ 34 1.7	8.1	73.1	42.9	
		~~3665~~	~~19 52 18.1~~	~~+ 33 51.1~~	~~7.9~~	~~72.7~~	~~42.8~~	
19 53	+34.1	~~3817~~	~~19 52 57.6~~	~~+ 34 6.9~~	~~8.2~~	73.2	42.9	
		~~3813~~	~~19 52 43.4~~	~~+ 34 1.7~~	~~8.1~~	~~72.9~~	~~42.8~~	
20 2	+34.0	3881	20 2 7.5	+ 34 0.2	6.0	74.5	42.7	
19 48	+34.2	3778	19 48 20.3	+ 34 12.1	6.8	72.1	42.8	
19 37.5	+34.1	~~3675~~	~~19 37 34.5~~	~~+ 34 4.6~~	~~8.0~~	70.4	42.9	
		~~3691~~	~~19 39 12.3~~	~~+ 34 4.0~~	~~7.0~~	~~72.0~~	~~42.9~~	
19 26.5	+34.1	3590	19 26 23.1	+ 34 8.7	4.6	68.4	42.8	
19 30	+34.4	3620	19 29 59.8	+ 34 22.0	7.0	69.0	42.8	
19 40.5	+34.6	3701	19 40 26.8	+ 34 39.5	6.6	70.8	42.9	
19 50.8	+34.7	3798	19 50 51.8	+ 34 41.9	4.2	72.7	42.9	
19 56.4	+34.9	3847	19 56 34.6	+ 34 55.8	7.6	73.8	42.7	
19 53	+35.1	3895	19 53 25.2	+ 35 6.1	7.4	73.2	42.9	

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T	H	Type	No. Lines	K	Focus	Other Lines.	V	H	V	H	
15.7	14.0	I	5	K=H	1	—	7.8	28.0	35.0	42.8	19
15.5	22.9	I	3	N	.1	—	7.8	45.8	35.0	25.0	19
14.8	6.4	I	2	N	1	—	7.4	12.8	35.4	58.0	2
14.3	6.8	III	3	K=H	2	—	7.2	13.6	35.6	57.2	2
14.7	7.0	?	0	N	2	—	7.4	14.0	35.4	56.8	2
14.3	8.0	I	3	N	1	—	7.2	16.0	35.6	54.8	19
13.2	9.1	I	6	N	2	—	6.6	18.2	36.2	52.6	19
13.7	10.2	I	6	N	1	—	6.8	20.4	36.0	50.4	19
13.9	10.8	I	7	N	3	—	7.0	21.6	35.8	49.2	19
14.6	12.0	I	3	N	1	—	7.3	24.0	35.5	46.8	19
14.2	13.3	I	6	N	2	—	7.1	26.6	35.7	44.2	19
13.5	12.6	III	2	N	1	—	6.8	25.2	36.0	45.6	1
14.2	15.2	I	7	N	3	—	7.1	30.4	35.7	40.4	1
13.9	16.7	I	4	K=H	1	—	7.0	33.4	35.8	37.4	1
14.9	19.0	I	3	N	1	—	7.4	38.0	35.4	32.8	1
14.9	19.5	I	4	N	1	—	7.4	39.0	35.4	31.8	1
14.3	20.2	I	4	K=8H	1	—	7.2	40.4	35.6	30.4	1
14.3	22.9	I	5	N	1	—	7.2	45.8	35.6	25.0	1
13.8	21.2	I	6	N	2	—	6.9	42.4	35.9	28.4	19
13.6	21.8	I	4	N	1	—	6.8	43.6	36.0	27.2	19
13.5	23.1	I	6	N	3	—	6.8	46.2	36.0	24.6	19
13.0	22.4	I	4	N	1	—	6.5	44.8	36.3	26.0	1
12.6	5.7	I	4	N	3	—	6.3	11.4	36.5	59.4	
12.6	6.6	I	4	N	1	—	6.3	13.2	36.5	57.6	2
12.5	9.5	I	8	N	4	—	6.2	19.0	36.6	51.8	1
12.5	11.5	II	3	K=H	2	—	6.2	23.0	36.6	47.8	19
12.1	14.1	I	4	N	1	—	6.0	28.2	36.8	42.6	1
11.7	12.7	I	4	N	1	—	5.8	25.4	37.0	45.4	1

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	Dm.	R. A.	Dec.	Mag.	H	V
19 43.5 +34.9	3727	19 43 19.8	+ 34 56.8	7.0	71.3	42.7
19 21.8 +34.9	3551	19 21 39.0	+ 34 53.3	7.7	67.4	42.7
	~~3648~~	~~19 24 0.0~~	~~+ 35 1.3~~	~~8.3~~	~~69.8~~	~~42.8~~
20 2 +35.4	3970	20 1 55.2	+ 35 18.1	7.7	68.0	42.7
	~~3953~~	~~20 0 30.8~~	~~+ 35 22.6~~	~~7.0~~	~~70.3~~	~~42.8~~
20 1 +35.6	3959	20 0 58.2	+ 35 34.1	5.5	74.6	42.8
20 0.5 +35.4	3953	20 0 30.8	+ 35 22.6	7.0	14.5	42.8
	~~3952~~	~~20 0 29.3~~	~~+ 35 15.5~~	~~7.5~~	~~74.5~~	~~42.7~~
19 58 +35.6	3930	19 58 4.7	+ 35 37.5	7.0	74.1	42.8
19 55.4 +36.2	3816	19 55 23.7	+ 36 11.6	7.0	73.6	42.8
19 52.4 +35.9	3889	19 52 37.0	+ 35 56.7	8.1	73.0	42.7
	~~3807~~	~~19 54 49.4~~	~~+ 36 1.0~~	~~7.0~~	~~75.2~~	~~42.8~~
19 51.4 +35.8	3878	19 51 22.5	+ 35 51.8	6.4	73.0	42.9
19 48. +35.5	3851	19 48 11.8	+ 35 28.3	8.5	72.2	42.8
	~~3872~~	~~19 51 1.0~~	~~+ 35 24.2~~	~~8.0~~	~~75.0~~	~~42.7~~
19 44.9 +35.7	3826	19 44 59.8	+ 35 44.2	7.5	71.6	42.8
19 47 +36.0	3744	19 46 58.0	+ 36 3.5	6.3	72.2	42.9
19 40.3 +35.7	3786	19 40 20.9	+ 35 44.6	7.0	70.7	42.8
19 36.5 +35.9	3754	19 36 38.3	+ 35 53.4	7.3	70.0	42.9
19 31 +35.9	3706	19 31 5.1	+ 35 22.3	8.2	69.1	42.8
	~~3705~~	~~19 31 3.1~~	~~+ 35 21.4~~	~~8.1~~	~~69.1~~	~~42.8~~
19 30 +35.4	3694	19 29 53.1	+ 35 23.1	8.0	68.9	42.8
19 28.3 +35.7	3678	19 28 14.1	+ 35 42.7	7.9	68.6	42.9
19 21.7 +35.6	3623	19 21 37.6	+ 35 37.0	7.5	67.4	42.8
19 25.5 +35.9	3658	19 25 32.1	+ 35 55.6	6.5	67.9	42.8
19 24 +35.9	3650	19 24 15.4	+ 35 59.5	6.5	67.9	42.8
19 21 +36.0	3557	19 20 55.5	+ 36 1.9	5.0	67.1	42.8
19 22 +36.2	3566	19 22 28.4	+ 36 14.3	7.3	67.3	42.7
	3907	20 4 3.0	+ 36 25.1	5.5	75.4	42.7
20 1.8 +36.4	3880	20 1 44.2	+ 36 24.6	7.0	74.9	42.7
19 54 +36.6	3806	19 54 36.1	+ 36 38.7	5.8	73.6	42.8
19 49.4 +36.6	3766	19 49 30.5	+ 36 36.7	6.0	72.5	42.8
19 43 +36.8	3709	19 43 1.3	+ 36 48.4	7.6	71.2	42.8
19 46.6 +37.0	3649	19 46 41.3	+ 37 0.7	8.1	72.1	42.8

Look up on plate.

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Plate 677.

T	H	Type	Nr. Lines	K	Focus	other Lines		V	H	V	H
11.8	15.7	III	5	K=H	3	—		5.9	31.4	36.9	39.4
12.5	19.1	I	7	N	3	—		6.2	38.2	36.6	32.6
11.7	22.0	I	2	N	1	—		5.8	44.0	37.0	26.8
11.7	23.6	I	3	N	1	—		5.8	47.2	37.0	23.6
10.7	8.4	I	5	N	1	—		5.4	16.8	37.4	54.0
10.5	9.0	I	5	N	1	—		5.2	18.0	37.6	52.8
10.2	10.1	I	7	N	2	—		5.1	20.2	37.7	50.6
11.9	15.1	I	3	N	1	—		6.0	30.2	36.8	40.6
11.2	16.5	I	3	N	1	—		5.6	33.0	37.2	37.8
10.5	15.8	I	4	N	1	—		5.2	31.6	37.6	39.2
Recorded ~~10.2~~	~~20.6~~	~~I~~	~~3~~	~~N~~	~~1~~	~~—~~		~~5.1~~	~~41.2~~	~~37.7~~	~~30.0~~
below ~~10.4~~	~~22.3~~	~~I~~	~~5~~	~~N~~	~~3~~	~~—~~		~~5.2~~	~~44.6~~	~~37.6~~	~~26.6~~
9.5	10.5	I	6	N	1	—		4.8	21.0	38.0	50.2
9.5	11.1	I	10	N	4	—		4.8	22.2	38.0	49.0
9.7	14.4	I	8	N	3	—		4.8	28.8	38.0	42.4
9.8	15.9	I	5	N	1	—		4.9	31.8	37.9	39.4
10.1	20.7	I	3	N	1	—		5.0	41.4	37.8	29.8
10.3	22.3	I	5	N	3	—		5.2	44.6	37.6	26.6
9.5	16.8	I	5	N	1	—		4.8	33.6	38.0	37.6
9.1	16.1	III	2	N	1	—		4.6	32.2	38.2	39.0
9.6	18.6	I	7	N	3	—		4.8	37.2	38.0	34.0
9.4	20.8	I	4	N	1	—		4.7	41.6	38.1	29.6
9.2	18.4	I	5	K=H	1	—		4.6	36.8	38.2	34.4
8.9	19.8	I	6	K=.2H	2	—		4.4	39.6	38.4	31.6
9.0	13.2	III	4	?	1	—		4.5	26.4	38.3	44.8
9.1	13.6	II	3	K=H	1	—		4.6	27.2	38.2	44.0
9.0	16.8	I	3	N	1	—		4.5	33.6	38.3	37.6
8.3	11.9	I	4	N	1	—		4.2	23.8	38.6	47.4

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	Dm.	R.A.	Dec.	Mag.	H	V
19 39 +37.0	3586	19 39 2.3	+ 37 0.6	5.4	71.4	42.9
19 30.5 +36.6	3619	19 30 35.7	+ 36 37.3	6.0	68.8	42.8
19 23.4 +36.9	3574	19 23 29.7	+ 36 53.6	7.6	67.4	42.7
19 20 +36.9	3550	19 20 9.4	+ 36 57.6	7.0	67.4	42.8
19 57+ +37.4	3735	19 57 29.5	+ 37 25.0	7.5	74.2	42.8
19 56 +37.6	3727	19 56 4.1	+ 37 34.8	7.5	74.1	42.8
19 53+ +37.6	3703	19 53 20.6	+ 37 42.9	6.7	73.5	42.8
19 40+ +37.1	3586	19 39 2.3	+ 37 0.6	5.4	69.2	43.0
	~~3709~~	~~19 43 1.3~~	~~+ 36 48.4~~	~~7.6~~	~~73.2~~	~~42.8~~
19 37.9 +37.4	3578	19 37 42.2	+ 37 20.2	7.9	70.7	42.9
19 39 + 37.7	3584	19 38 51.7	+ 37 39.9	7.8	70.5	42.9
———	~~3495~~	~~19 26 39.8~~	~~+ 37 42.7~~	~~8.0~~	~~67.9~~	~~42.8~~
———	~~3465~~	~~19 22 31.7~~	~~+ 37 38.9~~	~~6.4~~	~~67.1~~	~~42.8~~
19 52 +38.1	3832	19 52 17.2	+ 38 4.3	6.8	73.3	42.9
19 50 +38.2	3814	19 50 41.3	+ 38 6.2	5.5	72.9	42.9
19 42 + 38.1	3758	19 42 19.3	+ 38 3.4	6.1	71.1	42.9
19 38.5 + 38.0	3582	19 38 40.8	+ 37 59.2	7.5	70.5	42.9
	~~3733~~	~~19 38 38.3~~	~~+ 38 2.0~~	~~8.8~~	~~70.4~~	~~42.9~~
	~~3632~~	~~19 26 12.1~~	~~+ 38 6.1~~	~~7.5~~	~~67.6~~	~~43.1~~
19 26 + 38.2	~~3495~~	~~19 26 39.8~~	~~+ 37 42.7~~	~~8.0~~	~~68.1~~	~~42.7~~
19 22.5 + 37.7	3465	19 22 31.7	+ 37 38.9	6.4	67.1	42.8
19 36 + 38.2	3711	19 36 17.6	+ 38 7.5	7.9	69.9	42.9
19 36 + 38.4	3725	19 38 4.5	+ 38 19.5	6.7	70.3	42.9
19 32 +38.1	3677	19 31 51.4	+ 38 3.5	6.5	69.1	42.9
19 26 +38.2	3632	19 26 12.1	+ 38 6.1	7.5	67.8	42.8
19 32 +38.3	3680	19 32 12.5	+ 38 16.2	6.8	69.0	42.9
19 29 +38.5	3650	19 28 33.7	+ 38 27.6	6.6	68.2	42.9
19 45.5 +38.4	3780	19 45 25.9	+ 38 21.2	5.5	71.8	42.9
19 44.5 +38.4	3772	19 44 20.3	+ 38 20.9	6.8	71.5	42.9
19 36 +38.5	3710	19 36 16.3	+ 38 27.0	8.3	69.9	42.9
19 49 +38.7	3809	19 48 45.2	+ 38 43.8	8.2	72.6	42.9

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	V	H	Type	No. Lines.	K.	Focus.	Other Lines.		V	H	V	H
	8.0	9.3	I	5	N	1	—		4.0	18.6	38.8	52.6
	7.6	14.7	I	4	N	1	—		3.8	29.4	39.0	41.8
	7.5	9.6	I	4	N	1	—		3.8	19.2	39.0	52.0
	7.0	15.8	I	5	N	1	—		3.5	31.6	39.3	39.6
	6.7	13.9	I	4	K=H	1	—		3.4	27.8	39.4	43.4
	6.9	15.0	I	6	N	1	—		3.4	30.0	39.4	41.2
	6.5	16.1	I	6	K=H	1	—		3.2	32.2	39.6	39.0
	6.5	16.3	I	4	N	1	—		3.2	32.6	39.6	38.6
(Rec. above)	~~6.5~~	~~16.1~~	~~I~~	~~6~~	~~K=H~~	~~1~~	~~—~~		~~3.2~~	~~32.2~~	~~39.6~~	~~39.0~~
	6.0	16.5	I	7	K=.8 H	2	—		3.0	33.0	39.8	38.2
	7.0	20.0	I	5	N	1	—		3.5	40.0	39.3	31.2
	7.0	19.7	I	3	N	1	—		3.5	39.4	39.3	31.8
	6.4	19.0	I	3	N	1	—		3.2	38.0	39.6	33.2
	6.3	22.4	I	4	N	1	—		3.2	44.8	39.6	26.4
	6.6	6.2	I?	4	N	1	—		3.3	12.4	39.5	58.8
	6.0	8.5	I	4	N	1	—		3.0	17.0	39.8	54.2
	5.9	9.0	I	3	N	1	—		3.0	18.0	39.8	53.2
	5.8	10.7	I	10	N	3	—		2.9	21.4	39.9	49.8
	5.7	11.2	I	3	N	1	—		2.8	22.4	40.0	48.8
	5.5	13.2	I	8	N	3	—		2.8	26.4	40.0	44.8
	5.4	15.0	I	6	N	1	—		2.7	30.0	40.1	41.2
	5.0	16.1	I	6	N	1	—		2.5	32.2	40.3	39.0
	4.5	18.5	I	5	N	1	—		2.2	37.0	40.6	34.2
	4.7	8.9	I	4	N	1	—		2.4	17.8	40.4	53.4
	4.5	14.4	I	3	N	1	—		2.2	28.8	40.6	42.4
	3.5	12.0	I	4	N	1	—		1.9	24.0	40.9	47.2
	3.7	12.7	I	3	N	1	—		1.8	25.4	41.0	45.8
	3.5	19.3	I	5	N	1	—		1.8	38.6	41.0	32.6

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			DM.	R.A.		Dec.		Mag.	H	V
19	55	+38.8	3862	19	55 23.5	+ 38	48.1	7.2	74.0	42.8
19	41.5	+39.2	3908	19	41 33.8	+ 39	9.4	7.7	71.0	43.0
			~~3756~~	~~19~~	~~41 58.8~~	~~+ 38~~	~~54.6~~	~~8.6~~	~~71.4~~	~~42.8~~
19	54.5	+39.2	3990	19	54 46.3	+ 39	8.1	8.5	74.0	42.9
19	38	+39.6	~~3888~~	19	38 44.1	+ 39	23.7	7.7	70.1	42.9
19	43.5	+39.6	3923	19	43 42.4	+ 39	33.5	7.2	71.5	43.0
19	41	+39.6	3905	19	40 56.0	+ 39	32.1	7.3	70.9	42.9
19	38	+39.6	3885	19	38 6.6	+ 39	38.8	6.8	70.3	42.8
			3881	19	37 34.0	+ 39	41.7	8.2	66.6	42.9
19	37.5	+39.7	~~3876~~	~~19~~	~~36 41.2~~	~~+ 39~~	~~41.0~~	~~6.9~~	~~69.3~~	~~42.9~~
			~~3881~~	~~19~~	~~37 34.0~~	~~+ 39~~	~~41.7~~	~~8.2~~	~~69.8~~	~~42.9~~
19	37	+39.9	3878	19	37 0.3	+ 39	54.9	6.2	70.0	42.9
19	28	+39.4	3809	19	27 59.5	+ 39	21.0	7.8	68.0	42.8
19	29	+39.4	3818	19	28 46.0	+ 39	24.8	7.3	68.2	42.9
19	30.5	+39.7	3831	19	30 39.2	+ 39	42.3	7.9	68.7	42.9
			3767	19	21 39.0	+ 39	40.3	6.7	66.4	42.9
19	21.5	+39.8	~~3797~~	~~19~~	~~23 42.8~~	~~+ 39~~	~~38.5~~	~~7.0~~	~~68.5~~	~~42.8~~
20	3.5	+39.4	4054	20	3 39.1	+ 39	22.5	7.0	16.1	42.7
19	58	+39.8	4014	19	57 56.3	+ 39	46.0	7.5	74.9	42.8
19	56.4	+39.8	4007	19	56 24.2	+ 39	53.9	7.8	74.4	42.9
19	52	+39.9	3968	19	52 11.0	+ 39	58.8	5.8	73.6	42.8
19	50.5	+40.0	3948	19	50 42.3	+ 40	0.8	7.5	73.1	42.8
19	45.5	+40.3	3902	19	45 39.0	+ 40	14.0	5.5	72.0	43.0
19	41	+40.3	3870	19	40 52.0	+ 40	12.7	7.7	70.9	42.9
			3855	19	38 1.0	+ 40	22.7	4.0	70.2	42.9
19	38	+40.5	~~3866~~	~~19~~	~~39 55.0~~	~~+ 40~~	~~21.4~~	~~6.3~~	~~72.1~~	~~42.9~~
19	31.8	+40.7	3800	19	31 41.2	+ 40	41.1	8.0	68.7	42.9
			3982	19	56 49.6	+ 40	26.8	7.0	74.6	42.8
			3880	19	42 25.1	+ 40	38.3	7.9	71.2	42.8
			3931	19	48 43.0	+ 40	59.3	6.8	72.7	42.9
			3912	19	46 56.0	+ 40	59.0	7.7	72.3	42.8
			3397	19	29 30.6	+ 41	6.6	7.4	68.1	42.9

Finish identifying these stars with chart + also these remaining stars on page 109.

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Plate 677.

V	H	Type	No. lines.	K.	Focus.	Other lines.	V	H	V	H
2.7	9.0	I	4	N	1	—	1.4	18.0	41.4	53.2
2.6	18.5	I	4	N	1	—	1.3	37.0	41.5	34.2
2.6	19.2	I	5	N	1	—	1.3	38.4	41.5	32.8
2.0	10.4	I	3	N	1	—	1.0	20.8	41.8	58.4
2.0	16.7	I	3	N	1	—	1.0	33.4	41.8	37.8
1.7	19.1	?	0	N	2	—	0.8	38.2	42.0	33.0

Plate 711.

22.7	8.8	I	4	N	1	—	11.4	17.6	11.4	71.0
19.0	18.0	I	3	N	1	—	9.5	36.0	13.3	52.6
18.6	14.9	I	10	N	5	—	9.3	29.8	10.5	58.8
18.4	18.2	I	2	N	1	—	9.2	36.4	13.6	52.2
18.1	21.5	I?	1	N	1	—	9.0	43.0	13.8	45.6
17.5	13.4	I?	2	N	1	—	8.8	26.8	14.0	61.8
17.1	9.6	I	5	N	1	—	8.6	19.2	14.2	69.4
16.1	17.8	III	4	K=H	2	Diff	8.0	35.6	14.8	53.0
12.6	11.5	I	4	N	1	—	6.3	23.0	16.5	65.6
11.5	18.3	I	4	K=H	2	—	5.8	36.6	17.0	52.0
10.4	19.3	I	4	N	1	—	5.2	38.6	17.6	50.0
9.7	23.6	I	5	N	3	—	4.8	47.2	18.0	41.4
7.5	22.6	I	5	N	1	—	3.8	45.2	19.0	43.4
6.7	17.9	I	4	N	1	—	3.4	35.8	19.4	52.8
7.0	8.4	I	3	N	1	—	3.5	16.8	19.3	71.8
3.9	10.1	I	5	K=5+	1	—	2.0	20.2	20.8	68.4
3.6	9.7	I	6	N	3	—	1.8	19.4	21.0	69.2
3.4	20.9	I	5	N	1	—	1.7	41.8	21.1	46.8
5.0	24.0	I	4	?	3	—	2.5	48.0	20.3	40.6

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DM.	R.A.			Dec.		Mag.	H	V
3575	19	56	48.3	+ 41	24.8	7.0	74.8	42.8
3412	19	31	39.3	+ 41	34.1	8.2	68.7	42.9
3398	19	29	31.8	+ 41	36.4	7.0	70.2	42.9
3549	19	53	4.1	+ 41	52.3	6.5	74.9	42.9
3451	19	36	28.4	+ 41	47.9	7.5	69.9	42.8
3386	19	29	57.9	+ 42	5.0	5.8	68.2	42.9
3790	19	11	0.9	+ 11	20.5	5.4	28.6	22.7
3841	18	52	25.6	+ 13	26.0	5.3	88.4	22.9
3899	18	58	44.8	+ 13	39.0	3.0	88.5	22.9
3838	18	52	7.3	+ 13	43.1	6.4	88.5	22.9
3787	18	45	23.7	+ 13	48.0	5.9	88.4	22.8
3797	19	1	58.0	+ 14	12.6	6.8	28.8	23.0
3851	19	9	48.7	+ 14	17.2	5.9	29.0	22.9
3736	18	53	3.3	+ 14	52.7	3.9	88.7	22.9
3775	19	6	4.4	+ 16	35.5	7.0	29.1	22.9
3799	18	51	48.3	+ 17	10.2	5.8	88.4	23.0
3779	18	49	42.4	+ 17	55.8	5.9	88.3	23.1
~~3748~~	~~18~~	~~49~~	~~39.2~~	~~+ 17~~	~~48.4~~	~~7.0~~	~~88.8~~	~~23.0~~
3823	18	40	37.3	+ 18	1.6	4.1	87.8	22.8
3798	18	43	33.9	+ 19	10.5	6.1	88.8	23.0
3858	18	52	27.4	+ 19	36.2	5.8	88.3	23.0
3975	19	12	27.2	+ 19	20.8	6.8	29.3	22.8
4088	19	9	2.6	+ 20	58.8	6.0	29.2	23.0
3713	19	9	59.8	+ 21	8.2	4.7	29.4	22.9
3582	18	46	4.8	+ 21	15.5	5.5	87.9	23.0
3926	18	39	25.5	+ 20	24.8	4.1	87.4	22.9

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Sept. 20. 1886.

Plate 728.

V	H	Type.	No. lines	K	Focus	Other lines	V	H	V	H
21.9	11.6	III	3	K=H	2	seen?	11.0	23.2	7.1	26.8
21.0	11.5	I	4	N	1	—	10.5	23.0	7.6	27.0
20.9	11.7	I	3	N	1	—	10.4	23.4	7.7	26.6
19.6	17.0	I	3	N	1	—	9.8	34.6	8.3	16.0
18.0	12.4	I	6	N	1	—	9.0	24.8	9.1	25.2
19.0	14.2	I	2	N	1	—	9.5	28.4	8.6	21.6
17.0	17.1	I	5	K=H	1	—	8.5	34.2	9.6	15.8
17.5	19.0	I	2	N	1	—	8.8	38.0	9.3	12.0
16.5	16.1	I	3	N	1	—	8.2	32.2	9.9	17.8
16.0	20.9	I	4	N	1	—	8.0	41.8	10.1	8.2
14.5	10.5	I	6	K=2H	2	—	7.2	21.0	10.9	29.0
14.3	10.1	II	3	K=H	2	—	7.2	20.2	10.9	29.8
13.6	18.4	I	7	K=.2H	3	—	6.8	36.8	11.3	13.2
13.5	19.4	I	8	K=.5H	3	—	6.8	38.8	11.3	11.2
13.0	15.2	I	4	K=H	1	—	6.5	30.4	11.6	19.6
13.0	16.0	III	3	K=H	3	seen	6.5	32.0	11.6	18.0
12.7	15.0	I	4	N	1	—	6.4	30.0	11.7	20.0
13.1	7.3	I	5	N	2	—	6.6	14.6	11.5	35.4
12.5	7.5	I	4	N	2	—	6.4	15.0	11.7	35.0
12.0	18.5	I	7	K=.8H	3	—	6.0	37.0	12.1	13.0
11.0	13.9	I	5	N	1	—	5.5	27.8	12.6	22.2
10.9	15.2	I	7	K=.4	2	—	5.4	30.4	12.7	19.6
10.1	6.3	I	5	N	1	—	5.0	12.6	13.1	37.4
10.0	10.1	I	5	N	1	—	5.0	20.2	13.1	29.8
10.1	17.6	I	3	N	1	—	5.0	35.2	13.1	14.8
9.2	8.0	I	6	N	2	—	4.6	16.0	13.5	34.0
8.4	14.5	I	6	N	2	—	4.2	29.0	13.9	21.0
7.8	13.7	III	3	K=H?	1	seen	3.9	27.4	14.2	22.6
7.8	20.0	I	7	K=.2H	3	—	3.9	40.0	14.2	10.0
7.5	17.6	I	4	N	1	—	3.8	35.2	14.3	14.8
7.0	16.7	I	5	K=.8H?	1	—	3.5	33.4	14.6	16.6

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DM.	R.A.			Dec.		Mag.	H	V
4132	19	24	0.5	+ 7	4.3	4.8	50.2	18.1
4133	19	24	10.5	+ 7	28.7	7.0	50.2	18.0
4130	19	26	45.8	+ 7	36.6	7.5	50.2	18.0
4065	19	15	54.2	+ 8	20.1	7.7	49.9	18.1
4139	19	25	17.2	+ 9	2.2	7.0	50.1	18.0
4111	19	21	37.9	+ 8	34.2	7.5	50.0	18.1
4081	19	15	54.8	+ 9	38.1	6.5	50.1	18.1
4057	19	11	58.7	+ 9	21.8	6.0	50.0	18.2
4093	19	17	47.3	+ 9	48.5	8.2	50.0	18.0
3839	19	8	6.4	+ 10	9.8	7.0	49.9	18.2
3981	19	29	17.7	+ 10	49.8	6.8	50.3	18.0
3984	19	30	1.9	+ 10	57.4	6.1	50.2	18.2
3802	19	13	4.0	+ 11	15.7	6.2	49.9	18.1
3790	19	11	0.9	+ 11	20.5	5.4	49.8	18.1
3840	19	19	42.4	+ 11	33.7	7.5	50.1	18.1
3833	19	18	3.4	+ 11	38.7	5.5	50.1	18.1
3842	19	20	9.7	+ 11	46.8	7.2	50.2	18.2
3955	19	35	44.1	+ 11	28.9	5.7	50.3	18.1
3954	19	35	24.6	+ 11	51.7	6.9	50.4	18.3
3878	19	12	52.7	+ 12	6.6	5.5	49.9	18.1
3925	19	24	16.7	+ 12	33.7	7.2	50.1	18.1
3907	19	19	40.2	+ 12	44.7	6.0	50.1	18.1
4059	19	37	49.6	+ 12	57.6	6.0	50.4	18.0
4073	19	29	58.3	+ 13	2.0	7.8	50.2	18.0
3988	19	14	8.7	+ 13	18.5	7.0	50.3	18.3
4098	19	34	23.7	+ 13	29.2	5.8	50.4	18.1
4020	19	20	53.9	+ 13	59.4	6.0	49.9	18.2
3936	19	22	43.0	+ 14	17.9	6.0	50.1	18.2
3852	19	9	48.7	+ 14	17.2	5.9	49.8	18.2
3886	19	14	40.0	+ 14	21.7	7.8	49.9	18.2
3896	19	16	31.0	+ 14	39.3	6.5	49.9	18.2

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Plate 72b.

V.	H.	Type.	No. Lines.	K.	Focus	Other Lines.	V	H	V	H
7.0	12.4	I	4	N	1	—	3.5	24.8	14.6	25.2
6.7	20.5	~~III~~ ?	2	N	1	—	3.4	41.0	14.7	9.0
4.3	11.2	I	3	N	1	—	2.2	22.4	15.9	27.6
3.0	15.8	I	4	N	1	—	1.5	31.6	16.6	18.4
3.0	16.0	I	5	N	2	—	1.5	32.0	16.6	18.0
3.0	21.7	I	4	N	1	—	1.5	43.4	16.6	6.6

Plate 72b reread by mistake on page 122.

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Dm.	R. A.	Dec.	Mag.	H	V
3948	19 25 16.0	+14 39.5	7.1	50.1	18.1
3846	19 8 41.5	+14 50.2	6.1	48.7	18.2
3866	19 27 44.9	+15 57.1	7.0	50.1	18.2
3842	19 18 14.7	+16 40.6	6.7	49.8	18.2
3839	19 14 52.1	+16 39.9	5.8	49.9	18.2
3745	19 6 4.4	+16 35.5	7.0	49.5	18.1

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Sept. 24. 1886

Plate 702.

V	H	Type	No. Lines	K	Focus	Other Lines.		V	H	V	H
22.5	8.5	I	3	N	1	—		11.2	17.0	31.7	52.2
21.7	15.7	I	7	K=.2H	2	—		10.8	31.4	32.1	37.8
20.9	14.0	I	2	N	1	—		10.4	28.0	32.5	41.2
20.8	8.3	I	3	N	1	—		10.4	16.6	32.5	52.6
20.3	10.0	I	3	N	1	—		10.2	20.0	32.7	49.2
20.5	16.1	I	5	K=.5H	1	—		10.2	32.2	32.7	37.0
19.5	10.0	I	3	N	1	—		9.8	20.0	33.1	49.2
19.7	13.0	I?	2	N	1	—		9.8	26.0	33.1	43.2
19.5	18.4	I	5	N	1	—		9.8	36.8	33.1	32.4
19.6	20.4	I	5	N	2	—		9.8	40.8	33.1	28.4
19.2	14.0	I	6	K=H	3	—		9.6	28.0	33.3	41.2
18.7	16.9	I	7	K=.2H	2	—		9.4	33.8	33.5	35.4
18.7	17.4	I	3	N	1	—		9.4	34.8	33.5	34.4
18.1	18.8	I	3	N	1	—		9.0	37.6	33.9	31.6
18.1	11.4	I	3	N	1	—		9.0	22.8	33.9	46.4
18.0	9.4	I	3	N	1	—		9.0	18.8	33.9	50.4
17.7	9.2	I	3	N	1	—		8.8	18.4	34.1	50.8
17.5	11.0	I	6	N	2	—		8.8	22.0	34.1	47.2
17.6	20.1	I	8	N	4	—		8.8	40.2	34.1	29.0
17.1	18.6	I	6	N	1	—		8.6	37.2	34.3	32.0
16.7	14.3	III?	3	N	1	—		8.4	28.6	34.5	40.6
16.5	10.0	III	7	K=1.2H	4	reseau		8.2	20.0	34.7	49.2
15.8	7.7	I	3	N	1	—		7.9	15.4	35.0	53.8
15.6	9.0	I	5	N	1	—		7.8	18.0	35.1	51.2
16.0	13.1	I	6	K=H	1	—		8.0	26.2	34.9	43.0
16.3	16.7	I	3	N	1	—		8.2	33.4	34.7	35.8
16.0	17.5	I?	2	N	1	—		8.0	35.0	34.9	34.2
15.2	18.1	I	4	N	1	—		7.6	36.2	35.3	33.0

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	Dm.	R.A.	Dec.	Mag.	H	V
19 54 +31.5	3878	19 53 58.2	+ 31 25.7	6.9	71.0	42.6
19 37 +32.1	3531	19 37 10.0	+ 32 5.1	6.0	68.6	42.9
19 41 +32.5	3558	19 41 1.9	+ 32 32.2	6.5	69.0	42.9
	3662	19 54 29.5	+ 32 23.9	7.0	71.1	42.8
19 57 +32.6	~~3658~~	~~19 53 58.9~~	~~+ 32 30.1~~	~~7.6~~	~~70.6~~	~~42.9~~
	~~3618~~	~~19 48 53.3~~	~~+ 32 45.2~~	~~7.9~~	~~68.9~~	~~43.0~~
19 50.5 +32.7	~~3634~~	~~19 50 32.4~~	~~+ 32 41.4~~	~~7.4~~	~~70.5~~	~~42.9~~
19 35.9 +32.9	3526	19 36 6.4	+ 32 44.4	7.0	68.3	42.9
19 50.5 +33.1	3656	19 50 36.1	+ 33 6.6	7.7	70.6	42.9
19 43 +33.1	3602	19 43 18.7	+ 33 4.6	6.9	69.3	42.9
19 31 +33.1	3518	19 30 49.5	+ 33 8.3	7.9	67.6	42.9
19 26 +33.2	3487	19 25 49.2	+ 33 9.8	7.0	66.6	43.0
19 41 +33.4	3587	19 40 56.3	+ 33 23.6	5.4	68.9	43.0
19.34 +33.6	3547	19 34 18.2	+ 33 38.5	6.5	68.1	43.0
19.32 +33.6	3529	19 32 33.7	+ 33 33.8	7.8	67.4	43.0
19 29.8 +33.9	3510	19 29 42.1	+ 33 53.0	8.0	67.3	42.9
19 47 +33.8	3633	19 47 18.3	+ 33 49.1	7.7	70.1	42.8
19 52 +33.9	3665	19 52 18.1	+ 33 51.1	7.9	71.1	42.9
	3817	19 52 57.6	+ 34 6.9	8.2	71.4	42.9
19 53 +34.1	~~3813~~	~~19 52 43.4~~	~~+ 34 1.7~~	~~8.1~~	~~71.1~~	~~42.8~~
19 48 +34.2	3778	19 48 20.3	+ 34 12.1	6.8	70.3	43.0
19 26 +34.1	3590	19 26 23.1	+ 34 8.7	4.6	66.6	42.9
19 30 +34.4	3620	19 29 59.8	+ 34 22.0	7.0	67.2	43.0
19 40 +34.6	3701	19 40 26.8	+ 34 39.5	6.6	69.0	43.1
19 51 +34.7	3798	19 50 51.8	+ 34 41.9	4.2	70.9	42.9
19 56 +34.9	3847	19 56 34.6	+ 34 55.8	7.6	72.0	42.8
19 53 +35.1	3895	19 53 25.2	+ 35 6.1	7.4	71.4	42.9
19 43 +34.9	3427	19 43 19.8	+ 34 56.8	7.0	69.5	42.9
	3653	19 34 44.8	+ 34 48.7	8.0	68.1	43.0
19 34 +34.8	~~3634~~	~~19 32 18.0~~	~~+ 34 41.3~~	~~6.5~~	~~66.7~~	~~42.9~~
19 32 +34.9	3640	19 32 40.8	+ 34 55.9	6.6	67.7	42.9
19 31 +35.1	3705	19 31 3.1	+ 35 21.4	8.1	67.3	43.0

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Plate 702.

V	H	Type	Pro. Lines	K	Focus	Other Lines.	V	H	V	H
15.1	18.6	I	3	N	1	—	7.6	37.2	35.3	32.0
14.5	5.9	I	4	K=H?	2	—	7.2	11.8	35.7	57.4
14.5	17.1	I	3	N	1	—	7.2	34.2	35.7	35.0
14.5	12.5	I	6	N	2	—	7.2	25.0	35.7	44.2
14.5	14.4	I	7	N	3	—	7.2	28.8	35.7	40.4
14.5	19.3	I	3	N	1	—	7.2	38.6	35.7	30.6
14.5	22.0	I	3	N	1	—	7.2	44.0	35.7	25.2
14.0	9.4	I	5	N	1	—	7.0	18.8	35.9	50.4
14.1	9.9	I	8	N	3	—	7.0	19.8	35.9	49.4
13.5	8.3	I	5	N	2	—	6.8	16.6	36.1	52.6
13.9	11.7	?	1	N	1	—	7.0	23.4	35.9	45.8
14.0	20.4	I	7	N	3	—	7.0	40.8	35.9	28.4
13.9	20.9	I	5	N	1	—	7.0	41.8	35.9	27.4
13.7	22.2	I	7	N	4	—	6.8	44.4	36.1	25.8
13.4	21.6	I	4	N	1	—	6.7	43.2	36.2	26.0
12.5	8.1	I	3	N	1	—	6.2	16.2	36.7	53.0
12.5	8.7	I	8	N	4	—	6.2	17.4	36.7	51.8
12.7	5.7	I	3	N	1	—	6.4	11.4	36.5	57.8
12.7	10.7	II	4	K=H	2	—	6.4	21.4	36.5	47.8
12.4	13.3	I	4	N	1	—	6.2	26.6	36.7	42.6
12.9	18.3	I	7	N	3	—	6.4	36.6	36.5	32.6
12.0	22.8	I	3	N	1	—	6.0	45.6	36.9	23.6
12.0	14.9	III	5	K=H	3	reseau	6.0	29.8	36.9	39.4
11.1	8.2	I	3	N	1	—	5.6	16.4	37.3	52.8
11.0	7.5	I	4	N	1	—	5.5	15.0	37.4	54.2
10.6	8.1	I	5	N	1	—	5.3	16.2	37.6	53.0
10.5	9.2	I	6	N	3	—	5.2	18.4	37.7	50.8
10.7	15.0	I	4	N	1	—	5.4	30.0	37.5	39.2

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	Dm.	R.A.			Dec.		Mag.	H	V
19 30 +35.4	3694	19	29	53.1	+35	23.1	8.0	67.1	43.0
~~20 1 +35.6~~	~~3930~~	~~19~~	~~58~~	~~4.7~~	~~+35~~	~~37.8~~	~~7.0~~	~~69.9~~	~~42.8~~
	~~3959~~	~~20~~	~~0~~	~~58.2~~	~~+35~~	~~34.1~~	~~5.6~~	~~12.8~~	~~42.8~~
19 34 +35.6	3739	19	33	52.0	+35	35.8	8.5	68.1	42.8
19 45 +35.7	3826	19	44	59.8	+35	44.2	7.5	70.0	42.9
19 40 +35.7	3786	19	40	20.9	+35	44.6	7.0	69.1	42.9
19 28 +35.7	3678	19	28	14.1	+35	42.7	7.9	68.8	42.9
19 21 +35.6	3623	19	21	37.6	+35	37.0	7.5	65.6	42.8
19 52 +35.9	3889	19	52	37.0	+35	56.7	8.1	71.4	42.9
19 51 +35.8	3878	19	51	22.5	+35	51.8	6.4	71.2	42.9
19 55 +36.1	3807	19	54	49.4	+36	1.0	7.0	71.4	42.8
~~19 45 +35.7~~	~~3826~~	~~19~~	~~44~~	~~59.8~~	~~+35~~	~~44.2~~	~~7.5~~	~~68.4~~	~~42.7~~
	~~3844~~	~~19~~	~~46~~	~~54.4~~	~~+35~~	~~47.2~~	~~8.3~~	~~70.3~~	~~42.8~~
19 25 +35.9	3658	19	25	32.1	+35	55.6	6.5	66.3	42.9
19 24 +35.9	3650	19	24	15.4	+35	59.5	6.5	66.1	43.0
19 21 +36.0	3557	19	20	55.5	+36	1.9	5.0	65.3	42.8
19 22 +36.2	3566	19	22	28.4	+36	14.3	7.3	65.7	42.9
19 56 +36.7	3820	19	55	55.8	+36	42.0	6.7	72.1	42.9
19 54 +36.6	3806	19	54	36.1	+36	38.7	5.8	72.0	42.8
20 2 +36.4	3880	20	1	44.2	+36	24.6	7.0	73.1	42.8
19 49 +36.6	3766	19	49	30.5	+36	36.7	6.0	70.9	43.0
19 43 +36.8	3709	19	43	1.3	+36	48.4	7.6	69.6	43.0
19 30 +36.6	3619	19	30	35.7	+36	37.3	6.0	67.2	43.0
19 20 +36.9	3550	19	20	9.4	+36	57.6	7.0	65.8	43.0
19 39 +37.0	3586	19	39	2.3	+37	0.6	5.4	68.8	43.0
19 55 +37.3	3723	19	55	42.7	+37	18.0	8.5	72.1	42.9
19 57 +37.4	3735	19	57	29.5	+37	25.0	7.0	72.5	42.9
19 56 +37.6	3727	19	56	4.1	+37	34.6	7.5	72.3	42.9
19 53 +37.7	3703	19	53	20.6	+37	42.9	6.7	71.7	42.9
19 39 +37.7	3584	19	38	51.7	+37	39.9	7.8	68.9	43.1

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V	H	Type	No Lines	K	Focus	other Lines.	V	H	V	H
10.5	19.8	I	4	N	1	—	5.2	39.6	37.7	29.6
10.6	21.5	I	7	N	3	—	5.4	43.0	37.5	26.2
9.5	6.6	I	2	N	1	—	4.8	13.2	38.1	56.0
9.8	9.7	I	6	N	2	—	4.9	19.4	38.0	49.8
9.8	10.3	I	10	N	4	—	4.9	20.6	38.0	48.6
10.0	13.6	I	7	N	3	—	5.0	27.2	37.9	42.0
10.0	15.0	I	6	N	2	—	5.0	30.0	37.9	39.2
9.7	20.0	I	4	N	1	—	4.8	40.0	38.1	29.2
9.1	19.0	I	7	K=.2 H	2	—	4.6	38.0	38.3	31.2
9.9	17.7	I	7	N	3	—	5.0	35.4	37.9	33.8
9.5	17.6	I	5	K=.8 H	2	—	4.8	35.2	38.1	34.0
9.8	16.0	I	4	N	1	—	4.9	32.0	38.0	37.2
9.4	15.3	III ?	1	N	1	—	4.7	30.6	38.1	38.6
9.3	12.8	III	5	K=H	1	—	4.6	25.6	38.3	43.6
9.3	12.4	III	5	N	1	—	4.6	24.8	38.3	44.4
8.2	8.5	I	5	N	1	—	4.1	17.0	38.8	52.2
8.5	11.1	I	4	N	1	—	4.2	22.2	38.7	47.0
7.7	13.9	I	4	N	1	—	3.8	27.8	39.1	41.4
7.4	15.0	I	5	N	1	—	3.7	30.0	39.2	39.2
7.0	14.2	I	5	N	1	—	3.5	28.4	39.4	40.8
7.0	13.1	I	4	K=H	1	—	3.5	26.2	39.4	43.0
6.8	15.3	I	5	K=.5H	1	—	3.4	30.6	39.5	38.6
6.7	15.5	I	4	N	1	—	3.4	31.0	39.5	38.2
6.7	15.8	I	6	K=.8 H	1	—	3.4	31.6	39.5	37.6
6.3	15.7	I	7	K=.5H	2	—	3.2	31.4	39.7	37.8
7.2	18.9	I	4	N	1	—	3.6	37.8	39.3	31.4
7.4	19.2	I	4	N	1	—	3.7	38.4	39.2	30.8
6.6	21.5	I	5	N	1	—	3.3	43.0	39.7	26.2

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	Dm.	R.A.	Dec.	Mag.	H	V
19 26 +37.7	3495	19 26 39.8	+37 42.7	8.0	66.3	42.9
19 22 +37.6	3465	19 22 31.7	+37 38.9	6.4	65.5	43.0
19 59 +38.1	3896	19 59 52.7	+38 3.7	6.8	73.1	42.9
19 52 +38.1	3832	19 52 17.2	+38 4.3	6.8	71.7	43.0
19 50 +38.1	3814	19 50 41.3	+38 6.2	5.5	71.3	43.0
19 42 +38.1	3758	19 42 19.3	+38 3.4	6.1	69.5	43.1
19 38 +37.9	3725	19 38 4.5	+38 19.5	6.7	68.1	43.3
19 26 +38.1	3632	19 26 12.1	+38 6.1	7.5	66.2	42.9
19 28 +38.5	3650	19 28 33.7	+38 27.6	6.6	66.6	43.1
19 31 +38.1	3677	19 31 51.4	+38 3.5	6.5	67.3	43.1
19 32 +38.3	3680	19 32 12.5	+38 16.2	6.5	67.4	43.1
19 36 +38.1	3711	19 36 17.6	+38 7.5	7.9	68.3	43.0
19 38 +38.8	3725	19 38 4.5	+38 19.5	6.7	68.2	43.0
19 44 +38.3	3772	19 44 20.3	+38 20.9	6.8	69.9	42.9
19 45 +38.3	3780	19 45 25.9	+38 21.2	5.5	70.2	43.0
19 55 +38.8	3862	19 55 23.5	+38 48.1	7.2	72.4	42.9
19 48 +38.7	3809	19 48 45.2	+38 43.8	8.2	71.0	42.9
19 41 +39.2	3908	19 41 33.8	+39 9.4	7.7	69.4	43.0
19 38 +39.4	3888	19 38 44.1	+39 23.7	7.7	68.7	43.1
19 41 +39.5	3905	19 40 55.0	+39 32.1	7.3	69.3	43.0
19 43 +39.5	3923	19 43 42.4	+39 33.5	7.2	69.9	43.1
19 38 +39.6	3885	19 38 6.6	+39 38.8	6.8	68.7	43.0
19 37 +39.6	3882	19 37 36.3	+39 39.1	8.2	68.6	43.1
19 36 +39.7	3876	19 36 41.2	+39 41.0	6.9	68.3	43.1
19 37 +39.9	3878	19 37 0.3	+39 54.9	6.2	68.4	43.1
19 29 +39.4	3818	19 28 46.0	+39 24.8	7.3	66.6	43.0
19 28 +39.4	3809	19 27 59.5	+39 21.0	7.8	66.4	43.1
19 23 +39.6	3777	19 23 42.8	+39 38.5	7.0	66.7	42.9

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V	H	Type	Nº. Lines	K	Focus	Other lines.	V	H	V	H
6.0	9.8	I	8	N	3	—	3.0	19.6	39.9	49.6
5.6	12.4	I	7	N	3	—	2.8	24.8	40.1	44.4
5.4	14.6	2	1,	N	1	—	2.7	29.2	40.2	40.0
5.6	14.2	I	5	N	1	—	2.8	28.4	40.1	40.8
5.4	15.3	I	6	N	2	—	2.7	30.6	40.2	38.6
5.0	8.1	I	4	N	1	—	2.5	16.2	40.4	53.0
4.8	17.7	I	4	N	1	—	2.4	35.4	40.5	33.8
4.0	11.2	I	4	N	1	—	2.0	22.4	40.9	46.8
2.9	18.5	I	5	N	1	—	1.4	37.0	41.5	32.2
3.0	17.7	I	5	N	1	—	1.5	35.4	41.4	33.8
3.0	8.2	I	3	N	1	—	1.5	16.4	41.4	52.8
2.2	9.7	I	4	N	2	—	1.1	19.4	41.8	49.8
2.0	18.3	I	1	N	3	—	1.0	36.6	41.9	32.6
2.0	21.0	I	2	N	1	—	1.0	42.0	41.9	27.2

Plate 713.

20.5	10.6	I	4	N	1	—	10.2	21.2	12.7	27.1
17.5	8.9	I	7	K=H	3	—	8.8	17.8	14.1	30.5
17.5	10.0	I	6	N	2	—	8.8	20.0	14.1	28.3
16.5	6.0	I	6	K=H	1	—	8.2	12.0	14.7	36.3
16.5	16.8	I	3	N	1	—	8.2	33.6	14.7	14.7
16.4	20.2	I	5	N	2	—	8.2	40.4	14.7	7.9
15.0	7.9	I	7	N	5	—	7.5	15.8	15.4	32.5
15.0	8.2	I	3	N	1	—	7.5	16.4	15.4	31.9
14.7	15.5	I	4	N	1	—	7.4	31.0	15.6	17.3
7.5	12.5	I	3	N	1	—	3.8	25.0	19.1	23.3
6.8	12.9	I	3	N	1	—	3.4	25.8	19.5	22.5
6.7	13.3	I	3	N	1	—	3.4	26.6	19.5	21.7
5.7	12.1	I	4	N	1	—	2.8	24.2	20.1	24.1

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	Dm.	R.A.		Dec.		Mag.	H	V
19 52 +39.9	3968	19 52	11.0	+ 39	58.8	5.8	71.8	43.0
19 45 +40.2	3902	19 45	39.0	+ 40	14.0	5.5	70.4	43.0
~~19 41 +40.2~~	~~3866~~	~~19 39~~	~~55.0~~	~~+ 40~~	~~21.7~~	~~6.3~~	~~68.3~~	~~43.2~~
	~~3840~~	~~19 40~~	~~52.0~~	~~+ 40~~	~~12.4~~	~~4.7~~	~~69.3~~	~~48.0~~
19 38 +40.4	3856	19 38	1.0	+ 40	22.7	6.7	68.6	43.1
19 56 +40.5	3982	19 56	49.6	+ 40	26.8	7.0	73.0	42.9
19 31 +41.7	3800	19 31	41.2	+ 40	41.1	8.0	67.1	43.1
19 48 +40.9	3931	19 48	43.0	+ 40	59.3	6.8	71.1	43.0
19 29 +41.6	3498	19 29	31.8	+ 41	36.4	7.0	66.5	43.0
19 31 +41.5	3412	19 31	39.3	+ 41	34.1	8.2	67.1	43.1
19 56 +41.4	3575	19 56	48.3	+ 41	24.8	7.0	73.2	42.9
19 53 +41.8	3549	19 53	4.1	+ 41	52.3	6.5	72.5	43.0
19 30 +42.1	3386	19 29	57.9	+ 42	5.0	5.8	65.6	43.1
	~~3364~~	~~19 24~~	~~36.5~~	~~+ 41~~	~~47.5~~	~~8.8~~	~~66.6~~	~~42.8~~
19 22 +41.9	3352	19 22	42.3	+ 41	56.0	7.5	64.7	42.9

	4378	20 27	5.4	+ 12	32.7	6.0	48.3	22.7
	4369	20 30	45.0	+ 14	5.2	3.5	48.6	22.9
	4353	20 28	31.2	+ 14	12.0	4.5	48.5	23.0
	4403	20 36	42.7	+ 14	34.6	4.2	48.7	22.8
	4268	20 14	32.7	+ 14	39.7	6.5	48.1	22.9
	4227	20 7	33.5	+ 14	48.5	5.0	48.0	23.0
	4222	20 32	55.1	+ 15	26.0	3.5	48.7	22.9
	4220	20 32	21.4	+ 15	21.2	6.0	48.8	22.9
	4148	20 17	14.1	+ 15	35.3	6.8	48.2	23.0
	4426	20 23	33.8	+ 19	11.2	6.5	48.6	23.0
	4423	20 22	53.1	+ 19	35.7	6.5	48.7	23.0
	4419	20 21	51.6	+ 19	38.1	6.5	48.5	23.0
	4602	20 24	30.0	+ 20	7.2	6.1	48.7	22.9

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Plate 713.

V	H	Type	Pro. Lines	K	Focus	other Lines.	V	H	V	H
4.9	10.6	I	3	N	1	—	2.4	21.2	20.5	26.9
4.5	8.6	I	5	N	2	—	2.2	17.2	20.7	31.1
4.4	17.8	I	2	N	1	—	2.2	35.6	20.7	12.7
4.0	18.8	I	2	N	1	—	2.0	37.6	20.9	10.7
3.0	8.3	I	2	N	1	—	1.5	16.6	21.4	31.7
2.3	16.9	I	2	N	1	—	1.2	33.8	21.7	14.5

Plate 708.

16.1	16.9	III	4	K=H?	2	—	8.0	33.8	5.0	15.9
15.7	16.2	I	4	N	1	—	7.8	32.4	5.2	17.3
15.9	6.8	I	3	N	1	—	8.0	13.6	5.0	36.1
13.7	9.7	I	2	N	1	—	6.8	19.4	6.2	30.3
13.5	15.7	I	5	N	2	—	6.8	31.4	6.2	18.3
13.0	10.7	I	5	N	2	—	6.5	21.4	6.5	28.3
13.0	11.2	I	4	N	1	—	6.5	22.4	6.5	27.3
11.1	20.6	I	2	N	1	—	5.6	41.2	7.4	8.5
9.6	16.0	I	5	N	1	—	4.8	32.0	8.2	17.7
8.9	19.8	I	4	N	1	—	4.4	39.6	8.6	10.1
6.8	11.5	I	5	N	1	—	3.4	23.0	9.6	26.7
6.7	8.9	III	3	?	2	—	3.4	17.8	9.6	31.9
5.1	13.2	I	6	N	2	—	2.6	26.4	10.4	23.3
6.0	20.8	I	5	N	1	—	3.0	41.6	10.0	8.1
4.5	11.8	I	9	N	5	—	2.2	23.6	10.8	26.1
4.4	12.8	I	4	N	1	—	2.2	25.6	10.8	24.1
4.1	9.5	I	5	N	2	—	2.0	19.0	11.0	30.7

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Dm.	R.A.	Dec.	Mag.	H	V
4629	20 27 42.7	+ 20 29.2	6.2	48.9	22.9
4658	20 32 2.5	+ 20 41.5	4.7	49.2	22.9
4516	20 12 28.2	+ 20 46.1	7.8	48.1	23.0
4500	20 10 12.0	+ 20 58.1	7.0	47.8	23.0
4305	20 32 44.5	+ 21 18.4	6.0	49.3	22.8
4164	20 14 21.4	+ 21 49.6	7.0	48.2	23.0
4434	20 15 59.7	+ 4 53.2	5.5	49.8	12.9
4503	20 17 22.5	+ 5 2.4	7.3	49.8	12.8
4529	20 36 28.8	+ 4 53.2	6.8	50.1	12.9
4592	20 30 25.1	+ 6 0.1	7.6	49.8	12.8
4522	20 18 18.0	+ 6 10.9	7.0	49.7	13.0
4584	20 28 22.3	+ 6 27.0	7.2	49.8	12.9
4576	20 27 24.0	+ 6 23.5	6.8	49.8	12.9
4415	20 8 32.8	+ 7 22.2	7.3	49.7	13.0
4426	20 17 37.1	+ 8 8.8	6.9	49.6	12.9
4393	20 9 59.8	+ 8 30.4	6.7	49.6	12.9
4579	20 26 56.5	+ 9 33.9	7.5	49.9	13.0
4600	20 32 6.2	+ 9 34.6	5.5	49.9	13.0
4303	20 23 21.3	+ 10 25.5	5.8	49.8	13.0
4224	20 7 55.5	+ 10 2.8	7.0	49.5	13.0
4321	20 26 17.0	+ 10 49.2	3.8	49.9	13.0
4307	20 24 17.6	+ 10 47.8	6.5	49.9	13.0
4339	20 30 53.4	+ 10 53.4	5.0	49.9	12.9

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Plate 7/26.

V	H	Type	Lines Str.	K	Focus	other Lines.	V	H	V	H
21.9	11.5	III	6?	K=H	2	—	11.0	23.0	7.1	27.0
21.1	11.5	I	4	N	1	—	10.6	23.0	7.5	27.0
21.0	11.7	I	3	N	1	—	10.5	23.4	7.6	26.6
19.5	17.0	I	3	N	1	—	9.8	34.0	8.3	16.0
19.0	14.2	I	2	N	1	—	9.5	28.4	8.6	21.6
18.0	12.4	I	6	N	1	-	9.0	24.8	9.1	25.2
17.5	19.0	I	2	N	1	—	8.8	38.0	9.3	12.0
17.0	17.0	I	5	K=H	2	—	8.5	34.0	9.6	16.0
15.9	20.9	I	4	N	1	—	8.0	41.8	10.1	8.2
14.5	10.4	I	6	K=.2H	2	—	7.2	20.8	10.9	29.2
14.3	10.1	II	3	K=H	1	—	7.2	20.2	10.9	29.8
13.6	18.4	I	7	K=.2H	2	—	6.8	36.8	11.3	13.2
13.5	19.4	I	7	K=.5H	3	—	6.8	38.8	11.3	11.2
13.0	15.9	III	6	K=H	3	REEW	6.5	31.8	11.6	18.2
12.7	14.9	I	4	N	1	—	6.4	29.8	11.7	20.2
13.1	7.3	I	5	N	2	—	6.6	14.6	11.5	35.4
12.5	7.4	I	5	N	1	—	6.2	14.8	11.9	35.2
12.0	13.6	I	2	N	1	—	6.0	27.2	12.1	22.8
12.0	16.5	I	7	K=.8H	3	—	6.0	37.0	12.1	13.0
11.2	13.1	I	2	N	1	—	5.6	26.2	12.5	23.8
11.1	13.9	I	5	N	1	—	5.6	27.8	12.5	22.2
10.8	15.2	I	7	K=H	2	—	5.4	30.4	12.7	19.6
10.1	17.6	I	3	N	1	—	5.0	35.2	13.1	14.8
10.2	6.3	I	5	N	1	—	5.1	12.6	13.0	39.4
10.0	10.1	I	5	N	1	—	5.0	20.2	13.1	29.8
9.2	8.0	I	6	N	2	—	4.6	16.0	13.5	34.0
8.4	14.5	I	6	N	2	—	4.2	29.0	13.9	21.0
7.7	13.7	III	4	K=H?	1	REEW.	3.8	27.4	14.3	22.6
7.8	19.9	I	7	K=.2H	3	—	3.9	39.8	14.2	10.2
7.5	17.6	I	4	N	1	—	3.8	35.2	14.3	14.8

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Dm.	R.A.			Dec.		Mag.	H	V
4132	19	27	0.5	+ 7	4.3	4.8	50.0	18.1
4133	19	27	10.5	+ 7	28.7	7.0	50.2	18.1
4130	19	26	45.8	+ 7	36.6	7.5	50.2	18.1
4065	19	15	54.2	+ 8	20.1	7.7	49.9	18.1
4111	19	21	37.9	+ 8	34.2	7.5	50.0	18.1
4139	19	25	17.2	+ 9	2.2	7.0	50.1	18.0
4057	19	11	58.7	+ 9	21.8	6.0	50.0	18.2
4081	19	15	54.8	+ 9	38.1	6.5	49.9	18.1
4039	19	8	20.8	+ 9	57.7	7.0	50.1	18.0
3987	19	29	17.7	+ 10	49.8	6.8	50.1	18.0
3984	19	30	1.9	+ 10	57.4	6.4	50.2	18.2
3802	19	13	6.0	+ 11	16.7	6.2	49.9	18.1
3790	19	11	0.9	+ 11	20.5	5.4	49.8	18.1
3833	19	18	3.4	+ 11	38.7	5.5	49.9	18.1
3842	19	20	9.7	+ 11	46.8	7.2	50.0	18.2
3955	19	35	44.1	+ 11	28.9	5.7	50.3	18.1
3954	19	35	24.6	+ 11	51.7	6.9	50.2	18.1
3929	19	22	50.1	+ 12	6.6	7.5	50.0	18.1
3879	19	12	52.7	+ 12	6.6	5.5	49.9	18.1
3940	19	23	49.2	+ 12	31.3	7.5	50.0	18.1
3925	19	22	16.7	+ 12	33.7	7.2	50.1	18.2
3907	19	19	40.2	+ 12	44.7	6.0	50.1	18.1
3988	19	14	8.7	+ 13	18.5	7.0	50.3	18.3
4059	19	34	49.6	+ 12	57.6	6.0	50.4	18.1
4073	19	29	58.3	+ 13	2.0	7.8	50.2	18.0
4098	19	34	23.7	+ 12	29.2	5.8	50.4	18.1
4020	19	20	53.9	+ 13	59.4	6.0	49.9	18.2
3936	19	22	43.0	+ 14	17.9	6.0	50.1	18.1
3852	19	9	48.7	+ 14	17.2	5.9	49.6	18.2
3886	19	14	40.0	+ 14	21.7	7.8	49.9	18.2

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Plate 7/26.

V	H	Type	Pro. Lines	K	Focus	Other Lines.	V	H	V	H
7.0	16.7	I	5	K=H?	1	—	3.5	33.4	14.6	16.6
7.0	12.4	I	4	N	1	—	3.5	24.8	14.6	25.2
6.6	20.5	III?	2	N	1	—	3.3	41.0	14.8	9.0
4.4	11.2	I	3	N	1	—	2.2	22.4	15.9	27.6
3.0	15.8	I	4	N	1	—	1.5	31.6	16.6	18.4
3.0	16.0	I	5	N	2	—	1.5	32.0	16.6	18.0
3.0	21.7	I	4	N	1	—	1.5	43.4	16.6	6.6
13.0	15.2	I	4	K=H	1	—	6.5	30.4	11.6	19.6

Plate 699.

21.7	19.0	I	5	N	1	—	10.8	38.0	7.2	31.7
19.6	11.0	I	3	N	1	—	9.8	22.0	8.2	47.7
19.2	19.4	III	5	K=H	3	—	9.6	38.8	8.4	31.1
18.7	7.0	I	4	N	1	—	9.4	14.0	8.6	55.7
16.8	19.9	I	5	N	2	—	8.4	39.8	9.6	29.9
16.0	18.9	III	5	K=H	2	—	8.0	37.8	0.0	31.9
14.0	7.0	I	2	N	1	—	7.0	14.0	1.0	55.7
13.5	11.0	I	3	N	1	—	6.8	22.0	1.2	47.7
10.4	7.1	I	2	N	1	—	5.2	14.2	2.8	55.5
10.5	14.5	I	6	N	2	—	5.2	29.0	2.8	40.7
9.8	14.3	I	5	N	2	—	4.9	28.6	3.1	41.1
8.5	8.9	I	6	K=H	3	—	4.2	17.8	3.8	51.9
8.0	10.6	I	3	N	1	—	4.0	21.2	4.0	48.5
6.4	16.6	I	5	K=.5H	1	—	3.2	33.2	4.8	36.5
6.0	13.5	?	2	N	1	—	3.0	27.0	5.0	42.7
5.1	14.5	I	8	N	3	—	2.6	29.0	5.4	40.7
4.1	17.4	I	4	N	1	—	2.0	34.8	6.0	34.9
2.1	18.4	I	1	N	1	—	1.0	16.8	7.0	52.9
4.0	19.6	I	4	N	1	—	2.0	39.2	6.0	30.5
3.1	20.7	I	4	N	1	—	1.6	41.4	6.4	28.3
3.3	21.2	I	3	N	1	—	1.6	42.4	6.4	27.3
2.4	15.5	I	4	N	1	—	1.2	31.0	6.8	38.7

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Dm.	R.A.	Dec.	Mag.	H	V
3896	19 16 31.0	+ 14 39.3	6.5	49.9	18.1
3948	19 25 16.0	+ 14 39.5	7.1	50.1	18.2
3846	19 8 41.5	+ 14 50.2	6.1	49.7	18.1
3866	19 27 44.9	+ 15 57.1	7.0	50.1	18.2
3842	19 18 14.7	+ 16 40.6	6.7	49.8	18.2
3838	19 17 52.1	+ 16 39.9	5.8	49.9	18.2
3775	19 6 4.4	+ 16 35.5	7.0	49.5	18.1
3840	19 19 42.4	+ 11 33.7	7.5	50.1	18.1

Look up on plate.

4075	20 47 40.0	− 1 55.1	6.7	69.7	17.9
4016	20 30 51.6	− 1 36.9	4.7	69.7	18.0
4095	20 55 32.0	− 1 30.3	6.8	69.5	17.9
4056	20 29 53.2	− 0 24.3	6.6	69.7	18.0
4064	20 31 59.5	− 0 1.3	5.4	69.8	18.0
4648	20 55 42.7	+ 0 58.0	7.7	69.7	8.0
4393	20 47 47.9	+ 1 16.2	7.0	69.8	8.1
4289	20 55 25.2	+ 2 46.9	7.2	69.6	8.0
4250	20 40 30.7	+ 2 47.4	6.5	69.5	8.0
4430	20 41 8.5	+ 3 7.2	6.8	69.7	8.0
4473	20 51 51.1	+ 3 44.4	5.5	69.7	7.9
4461	20 48 25.5	+ 3 58.5	5.7	69.6	8.0
4529	20 36 28.8	+ 4 53.2	6.8	69.7	8.1
4826	20 42 46.8	+ 5 1.2	6.4	69.8	8.0
4613	20 40 37.7	+ 5 28.4	5.5	69.6	8.1
4586	20 34 56.3	+ 5 59.8	6.8	69.7	8.0
4718	20 52 56.2	+ 6 57.3	6.5	69.7	8.0
4592	20 30 25.1	+ 6 0.1	7.6	69.6	8.0
4584	20 28 22.3	+ 6 27.0	7.2	69.8	8.0
4576	20 27 24.0	+ 6 23.5	6.8	69.8	8.0
4639	20 38 50.2	+ 6 51.7	7.2	69.8	8.1

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Plate 74 $\frac{8}{7}$

2 30	V	H	Type	Prev. Lines	K	Focus	Other Lines.	V	H	V	~~H~~	H
	22.5	8.7	I	3	N	1	—	11.2	17.4	26.9	~~33.8~~	32.5
	22.1	11.0	I	4	N	1	—	11.0	22.0	27.1	~~29.2~~	27.9
	22.5	12.5	I	3	N	1	—	11.2	25.0	26.9	~~26.7~~	24.9
	22.6	18.1	I	3	N	1	—	11.3	36.2	26.8	~~15.0~~	13.7
	21.7	7.9	I	3	N	1	—	10.8	15.8	27.3	~~35.4~~	34.1
	21.5	19.5	I	5	N	2	—	10.8	39.0	27.3	~~12.2~~	10.9
	20.8	12.9	I	7	N	5	—	10.4	25.8	27.7	~~25.4~~	24.1
	20.5	15.7	I	5	N	2	—	10.2	31.4	27.9	~~19.8~~	18.5
	20.6	19.4	I	3	N	1	—	10.3	38.8	27.8	~~12.4~~	11.1
	20.6	19.8	I	4	N	1	—	10.3	39.6	27.8	~~11.6~~	10.3
	20.0	12.3	I	3	N	1	—	10.0	24.6	28.1	~~26.6~~	25.3
	19.7	11.3	I	3	N	1	—	9.8	22.6	28.3	~~28.6~~	27.3
	19.2	12.5	I	3	N	1	—	9.6	25.0	28.5	~~26.2~~	24.9
	19.1	15.0	I	5	N	1	—	9.6	30.0	28.5	~~21.2~~	19.9
	19.1	23.4	I	5	N	2	—	9.6	46.8	28.5	~~4.4~~	3.1
	18.1	6.7	I	3	N	2	—	9.0	13.4	29.1	~~37.8~~	36.5
	18.0	7.6	I	4	N	2	—	9.0	15.2	29.1	~~36.0~~	34.7
	18.0	10.0	I	6	N	2	—	9.0	20.0	29.1	~~31.2~~	29.9
	17.9	11.0	I	7	K=.5H	2	—	9.0	22.0	29.1	~~29.2~~	27.9
	17.9	13.9	III?	1	N	1	—	9.0	27.8	29.1	~~23.4~~	22.1
	17.5	15.7	I	7	N	4	—	8.8	31.4	29.3	~~19.8~~	18.5
	18.0	20.6	I	4	N	1	—	9.0	41.2	29.1	~~10.0~~	8.7
	18.0	23.5	I	3	N	1	—	9.0	47.0	29.1	~~4.2~~	2.9
	17.2	9.0	I	4	N	1	—	8.6	18.0	29.5	~~33.2~~	31.9
	17.4	9.9	I	4	N	1	—	8.7	19.8	29.4	~~31.4~~	30.1
	16.8	16.8	I	5	N	1	—	8.4	33.6	29.7	~~14.6~~	16.3
	16.6	18.2	I	4	N	1	—	8.3	36.4	29.8	~~14.8~~	13.5
	16.5	9.1	III	6	K=H	3	—	8.2	18.2	29.9	~~33.0~~	31.7

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DM.	R.A.		Dec.		Mag.	H	V	H'	
3632	19	34.3	+ 26	40	7.0	51.7	37.9		
~~3640~~	~~19~~	~~34.9~~	~~+ 26~~	~~48~~	~~8.1~~	~~52.3~~	~~38.0~~	50.4	
3594	19	29.1	+ 26	54	6.9	51.1	37.9	50.3	
3574	19	25.7	+ 26	41	7.7	50.7	37.9	50.1	
3521	19	13.3	+ 26	40	7.2	49.5	38.0	50.2	
3466	19	35.5	+ 27	22	7.7	51.3	38.2	49.7	
3313	19	10.1	+ 27	12	7.0	49.1	38.0	50.1	
3410	19	24.9	+ 27	39	3.0	50.7	38.0	50.2	
3379	19	18.6	+ 27	48	7.0	50.0	38.0	50.3	
3314	19	10.2	+ 27	40	6.2	49.0	38.0	50.0	
3307	19	9.2	+ 27	42	7.2	48.8	38.0	49.9	
3421	19	26.3	+ 27	58	8.0	50.9	38.0	50.3	
~~3392~~	~~19~~	~~28.4~~	~~+ 28~~	~~6~~	~~8.1~~	~~53.0~~	~~38.1~~	~~52.2~~	
3392	19	28.4	+ 28	6	8.1	51.0	37.9	50.1	
~~3412~~	~~19~~	~~31.4~~	~~+ 28~~	~~11~~	~~7.1~~	~~54.0~~	~~38.0~~	~~50.4~~	
3373	19	25.7	+ 28	25	8.2	50.7	38.0	50.1	
3308	19	20.0	+ 28	29	8.0	50.0	38.1	50.0	
3193	19	0.9	+ 28	24	5.7	47.7	38.0	49.7	
3460	19	39.0	+ 28	55	6.8	52.4	37.9	50.3	
3447	19	37.0	+ 28	59	7.2	52.2	38.0	50.5	
3670	19	31.4	+ 29	1	6.8	51.4	38.0	50.1	
3651	19	29.1	+ 29	8	5.8	51.1	38.1	50.1	
3609	19	22.5	+ 29	9	7.0	50.3	38.2	49.9	
3584	19	18.4	+ 29	20	5.2	49.8	38.1	50.0	
3240	19	7.2	+ 28	59	7.0	48.4	38.0	49.6	
3472	19	0.2	+ 29	7	8.0	47.2	38.1	49.4	
3186	19	0.2	+ 28	53	8.0	47.2	37.9	49.3	Look up on plate.
3686	19	33.8	+ 29	25	7.6	51.8	38.0	50.3	
3672	19	31.7	+ 29	17	7.5	51.5	38.0	50.0	
3568	19	16.0	+ 29	38	7.2	49.6	38.0	50.1	
3550	19	12.8	+ 29	42	8.0	49.2	38.0	50.1	
3684	19	33.7	+ 29	49	5.3	51.9	38.0	50.3	

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V	H	Type	No. Lines	K	Focus	other Lines.		V	H	V	~~H~~	H
16.2	7.4	I	4	N	1	—		8.1	14.8	30.0	~~30.4~~	35.1
16.0	10.2	I	4	N	1	—		8.0	20.4	30.1	~~30.8~~	29.5
15.7	10.0	I	3	N	1	—		7.8	20.0	30.3	~~31.0~~	29.9
16.1	13.5	I	3	N	1	—		8.0	27.0	30.1	~~34.2~~	22.9
15.9	14.3	I	3	N	1	—		8.0	28.6	30.1	~~22.6~~	21.3
16.5	20.5	I	3	N	1	—		8.2	41.0	29.9	~~40.2~~	8.9
16.3	22.3	I	3	N	1	—		8.2	44.6	29.9	~~6.6~~	5.3
15.9	19.9	I	4	N	1	—		8.0	39.8	30.1	~~11.1~~	10.1
15.6	19.4	III	3	K=H	1	—		7.8	38.8	30.3	~~12.4~~	11.1
16.0	20.8	I	5	N	1	—		8.0	41.6	30.1	~~4.6~~	8.3
15.5	22.0	I	5	N	1	—		7.8	44.0	30.3	~~7.2~~	5.9
16.1	14.3	I	3	N	1	—		8.0	28.6	30.1	~~22.6~~	21.3
15.8	9.1	I	4	N	1	—		7.9	18.2	30.2	~~33.0~~	31.7
15.4	7.5	I	6	N	2	—		7.7	15.0	30.4	~~36.2~~	34.9
15.4	8.3	I	2	N	2	—		7.7	16.6	30.4	~~34.6~~	33.3
14.6	15.6	I	5	N	2	—		7.3	31.2	30.8	~~17.2~~	18.7
14.7	18.3	I	6	N	2	—		7.4	36.6	30.7	~~14.6~~	13.3
14.3	9.4	I	4	N	1	—		7.2	18.8	30.9	~~32.4~~	31.1
14.2	10.3	I	3	N	1	—		7.1	20.6	31.0	~~30.6~~	29.3
14.2	10.8	I	5	N	1	—		7.1	21.6	31.0	~~29.6~~	28.3
14.5	11.9	I	4	K=H	2	—		7.2	23.8	30.9	~~24.4~~	26.1
14.0	13.3	I	3	N	1	—		7.0	26.6	31.1	~~24.6~~	23.3
13.5	13.4	I	4	K=H	1	—		6.8	26.8	31.3	~~24.4~~	23.1
14.1	19.2	I.	5	N	2	—		7.0	38.4	31.1	~~14.8~~	11.5
14.0	21.0	I	7	N	3	—		7.0	42.0	31.1	~~9.2~~	7.9
13.9	21.4	I	3	N	1	—		7.0	42.8	31.1	~~8.3~~	7.1
13.7	6.6	I	2	N	1	—		6.8	13.2	31.3	~~28.0~~	36.7
13.7	8.0	I	2	N	1	—		6.8	16.0	31.3	~~35.2~~	33.9

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DM.	R.A.		Dec.		Mag.	H	V	H'
3710	19	37.5	+ 29	54	7.3	52.3	38.0	50.3
3658	19	31.2	+ 30	0	7.8	51.6	38.0	50.3
3660	19	31.7	+ 30	6	8.1	51.7	37.9	50.3
~~3677~~	~~19~~	~~33.8~~	~~+ 30~~	~~5~~	~~7.3~~	~~53.8~~	~~37.9~~	~~50.8~~
3590	19	23.6	+ 30	15	7.4	50.6	38.2	50.1
~~3603~~	~~19~~	~~25.0~~	~~+ 30~~	~~14~~	~~7.5~~	~~52.0~~	~~38.3~~	~~50.1~~
3578	19	21.7	+ 30	8	8.1	50.3	38.1	50.0
~~3590~~	~~19~~	~~23.6~~	~~+ 30~~	~~15~~	~~7.4~~	~~52.2~~	~~38.2~~	~~50.0~~
3517	19	7.4	+ 29	48	8.0	48.4	38.0	49.9
~~3492~~	~~19~~	~~3.4~~	~~+ 29~~	~~41~~	~~8.1~~	~~48.0~~	~~37.9~~	~~49.9~~
3438	19	3.2	+ 30	4	7.0	47.8	38.3	49.8
3479	19	8.7	+ 30	6	7.8	48.5	38.1	49.8
3491	19	9.8	+ 30	16	5.8	48.6	38.1	49.8
3464	19	6.7	+ 30	6	7.7	48.3	38.1	49.8
3442	19	3.8	+ 30	20	7.0	47.8	38.1	49.8
3578	19	21.7	+ 30	8	8.1	50.3	38.1	50.1
3677	19	33.8	+ 30	5	7.3	52.0	38.0	50.4
~~3692~~	~~19~~	~~35.6~~	~~+ 30~~	~~23~~	~~7.5~~	~~53.8~~	~~38.3~~	~~50.4~~
3706	19	37.5	+ 30	20	6.2	52.5	38.0	50.4
~~3692~~	~~19~~	~~35.6~~	~~+ 30~~	~~23~~	~~7.5~~	~~52.2~~	~~38.1~~	~~50.3~~
3697	19	36.0	+ 30	28	6.5	52.6	38.2	50.5
3542	19	18.7	+ 30	46	7.0	49.9	38.1	50.1
3502	19	12.4	+ 30	45	6.9	49.0	38.2	49.9
3673	19	33.0	+ 30	53	7.9	51.8	38.2	50.3
~~3717~~	~~19~~	~~35.1~~	~~+ 31~~	~~5~~	~~7.1~~	~~53.9~~	~~38.3~~	
3678	19	30.6	+ 31	12	8.0	51.2	38.3	50.8
~~3645~~	~~19~~	~~29.9~~	~~+ 30~~	~~58~~	~~7.6~~	~~50.5~~	~~38.1~~	~~50.6~~
3645	19	29.9	+ 30	58	7.6	51.5	38.1	50.3
~~3665~~	~~19~~	~~30.9~~	~~+ 30~~	~~55~~	~~8.2~~	~~52.5~~	~~38.0~~	~~?~~
3622	19	27.3	+ 30	56	6.9	51.1	38.1	50.2
3622	19	23.9	+ 31	5	8.1	50.5	38.1	50.0
3618	19	23.8	+ 31	20	7.0	50.6	38.1	50.1
3494	19	10.4	+ 30	59	6.9	48.8	38.0	50.0
3497	19	6.2	+ 31	3	6.0	48.2	38.0	49.9
3485	19	5.2	+ 31	5	8.0	48.0	38.1	49.9
3752	19	39.6	+ 31	4	7.3	52.8	37.9	50.3
3722	19	36.4	+ 31	9	7.8	52.4	38.0	50.4

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V	H	Type	Lines	K	Focus	other Lines.	V	H	V	H	H
13.0	12.9	I	2	N	1	—	6.5	25.8	31.6	25.4	24.1
13.3	19.1	I	3	N	1	—	6.6	38.2	31.5	13.0	11.7
13.2	21.3	I	2	N	1	—	6.6	42.6	31.5	8.6	7.3
13.0	19.6	III?	2	N	1	—	6.5	39.2	31.6	12.0	10.7
12.9	17.6	I	5	N	2	—	6.4	35.2	31.7	16.0	14.7
12.5	17.2	I	6	N	2	—	6.2	34.4	31.9	16.8	15.5
12.4	13.2	I	4	N	1	—	6.2	26.4	31.9	24.8	23.5
12.6	8.8	I	3	N	1	—	6.3	17.6	31.8	33.6	32.3
12.5	7.3	I	3	N	1	—	6.2	14.6	31.9	36.6	35.3
12.5	6.2	I	2	N	1	—	6.2	12.4	31.9	38.8	37.5
11.9	7.7	I	6	N	2	—	6.0	15.4	32.1	35.8	34.6
12.0	9.5	I	6	N	1	—	6.0	19.0	32.1	32.2	30.9
11.6	9.3	I	4	N	1	—	5.8	18.6	32.3	32.6	31.3
11.5	15.7	III?	3	K=H	1	—	5.8	31.4	32.3	19.8	18.5
12.0	20.6	I	4	N	1	—	6.0	41.2	32.1	10.0	8.7
11.5	22.7	I	6	N	3	—	5.8	45.4	32.3	5.8	4.5
11.0	11.8	I	4	N	1	—	5.5	23.6	32.6	27.6	26.3
11.0	6.1	?	2	N	1	—	5.5	12.2	32.6	39.0	37.7
10.6	8.2	I	5	N	1	—	5.3	16.4	32.8	34.8	33.5
10.5	11.6	I	4	K=H	2	—	5.2	23.2	32.9	28.0	26.7
10.1	14.0	I	3	N	1	—	5.0	28.0	33.1	23.2	21.9
10.5	15.8	III	5	K=H	1	—	5.2	31.6	32.9	19.6	18.3
10.5	18.7	I	4	N	2	—	5.2	37.4	32.9	13.8	12.5
10.0	17.7	I	5	N	2	—	5.0	35.4	33.1	15.8	14.5
9.8	16.2	III	3	K=H	1	—	4.9	32.4	33.2	18.8	17.5
10.0	12.6	I	7	K=2H	2	—	5.0	25.2	33.1	26.0	24.7
10.0	10.5	I	5	N	2	—	5.0	21.0	33.1	30.2	28.9
10.0	9.4	I	3	N	1	—	5.0	18.8	33.1	32.4	31.1

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DM.	R.A.	Dec.	Mag.	H	V	H'
3631	19 25.0	+ 31 40	7.5	50.8	38.2	50.2
3517	19 10.4	+ 31 22	8.2	48.6	38.0	49.9
3483	19 5.2	+ 31 24	7.3	47.8	38.0	49.7
3514	19 9.3	+ 31 36	7.0	48.5	38.1	49.9
3544	19 13.9	+ 31 42	7.1	49.1	38.1	49.9
3550	19 14.9	+ 31 50	7.0	49.3	38.0	50.8
3625	19 24.4	+ 31 54	8.1	50.8	38.1	50.3
3713	19 34.6	+ 31 43	7.6	52.2	38.0	50.3
3738	19 38.1	+ 31 44	7.8	52.7	37.9	50.2
3765	19 40.7	+ 31 46	7.2	53.1	38.0	50.5
3531	19 37.2	+ 32 5	6.0	52.6	38.1	50.3
3506	19 33.1	+ 32 5	7.5	52.1	38.1	50.4
3509	19 33.4	+ 32 14	7.9	52.0	38.0	50.2
3416	19 18.5	+ 32 27	7.5	49.9	38.3	50.1
3354	19 6.8	+ 32 0	7.6	48.0	38.0	49.7
3326	19 1.9	+ 32 16	6.0	47.3	38.1	49.8
3469	19 27.6	+ 32 35	8.0	51.2	38.1	50.2
3558	19 41.0	+ 32 32	6.5	53.2	38.0	50.4
3526	19 36.1	+ 32 44	7.0	52.5	38.0	50.3
3474	19 28.0	+ 32 53	7.0	51.2	38.1	50.1
3463	19 22.4	+ 33 5	7.4	50.4	38.1	50.1
3411	19 18.1	+ 32 56	6.9	49.7	38.1	50.0
3379	19 11.3	+ 32 52	7.5	48.7	38.1	50.0
3409	19 13.6	+ 33 8	6.8	49.0	38.1	49.9
3434	19 17.1	+ 33 14	6.2	49.5	38.1	50.0
3487	19 25.8	+ 33 10	7.0	51.0	38.2	50.3
3518	19 30.8	+ 33 8	7.9	51.8	38.1	50.3
3539	19 33.3	+ 33 1	7.8	52.1	38.0	50.3

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V	H	Type	Lines	K	Focus	Other Lines	V	H	V	H	H
9.5	13.0	III	3	N	1	—	4.8	26.0	33.3	~~25.7~~	23.9
9.2	6.2	I	5	K=H	3	Lincabore g. rem.	4.6	12.4	33.5	~~28.8~~	37.5
9.0	9.0	I	6	N	2	—	4.5	18.0	33.6	~~33.7~~	31.9
9.0	9.6	I	4	N	1	—	4.5	19.2	33.6	~~37.0~~	30.7
8.6	11.7	I	4	N	1	—	4.3	23.4	33.8	~~29.8~~	26.5
8.5	10.9	I	4	N	1	—	4.2	21.8	33.9	~~29.4~~	28.1
8.5	7.3	I	6	N	3	—	4.2	14.6	33.9	~~31.6~~	35.3
8.0	12.4	I	9	N	5	—	4.0	24.8	34.1	~~20.4~~	25.1
8.2	16.6	I	4	N	1	—	4.1	33.2	34.0	~~18.0~~	16.7
8.4	17.2	I	3	N	1	—	4.2	34.4	33.9	~~18.8~~	15.5
8.2	19.6	I	5	N	1	—	4.1	39.2	34.0	~~12.0~~	10.7
7.6	19.5	I	4	K=H?	1	—	3.8	39.0	34.3	~~12.2~~	10.9
7.8	19.8	I	3	N	1	—	3.9	39.6	34.2	~~11.6~~	10.3
7.7	20.0	I	3	N	1	—	3.8	40.0	34.3	~~11.2~~	9.9
8.0	23.9	I	3	N	1	—	4.0	47.8	34.1	~~3.4~~	21.1
7.8	22.4	I	4	N	1	—	3.9	44.8	34.2	~~6.4~~	6.1
7.5	21.7	?	2	N	1	—	3.8	43.4	34.3	~~7.8~~	6.5
7.0	21.8	I	5	N	1	—	3.5	43.6	34.6	~~7.6~~	6.13
7.3	18.0	I	4	N	1	—	3.6	36.0	34.5	~~15.0~~	13.9
7.5	10.9	I	5	N	2	—	3.8	21.8	34.3	~~29.4~~	28.1
6.5	16.9	I	6	N	2	—	3.2	33.8	34.9	~~19.4~~	16.1
6.5	14.3	I	4	N	1	—	3.2	28.6	34.9	~~22.6~~	21.3
6.1	13.4	I	4	N	1	—	3.0	26.8	35.1	~~24.4~~	23.1
6.5	12.1	I	3	N	1	—	3.2	24.2	34.9	~~34.0~~	25.7
6.4	9.8	III?	3	K=H	1	—	3.2	19.6	34.9	~~31.6~~	30.3
6.6	6.5	III	2	N	1	—	3.3	13.0	34.8	~~36.2~~	36.9
5.8	7.7	I	3	N	1	—	2.9	15.4	35.2	~~35.8~~	34.5
5.6	10.5	I	3	N	1	—	2.8	21.0	35.3	~~30.7~~	28.9

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DM.	R.A.	Dec.	Mag.	H	V	H'
3480	19 24.9	+ 33 26	7.0	50.9	38.2	50.3
3587	19 40.9	+ 33 24	6.4	53.3	38.0	50.3
3547	19 34.3	+ 33 38	6.5	52.3	38.1	50.3
3529	19 32.6	+ 33 34	7.8	51.8	38.1	50.1
3500	19 27.9	+ 33 46	8.3	51.3	38.1	50.3
3510	19 29.7	+ 33 53	8.0	51.5	38.1	50.0
3572	19 38.4	+ 33 49	6.7	53.0	38.0	50.3
3590	19 26.4	+ 34 9	4.6	51.2	38.2	50.3
3511	19 16.1	+ 34 1	8.1	49.3	38.1	49.9
3421	19 14.8	+ 33 55	8.4	49.2	38.1	50.0
3378	19 8.9	+ 33 58	7.3	48.1	38.1	49.6
3475	19 9.2	+ 34 18	7.2	48.2	38.1	49.7
3469	19 8.4	+ 34 10	8.0	48.0	38.1	49.6
3466	19 8.0	+ 34 15	8.0	48.0	38.0	49.7
3309	18 58.6	+ 33 56	7.2	106.4	37.9	109.6
3431	19 2.3	+ 34 10	7.5	47.1	38.1	49.6
3439	19 3.8	+ 34 22	6.5	47.2	38.2	49.6
3437	19 3.5	+ 34 31	6.5	47.1	38.0	49.5
3490	19 12.7	+ 34 30	8.2	48.7	38.1	49.9
~~3498~~	~~19 14.5~~	~~+ 34 30~~	~~8.0~~	~~50.5~~	~~38.1~~	
3620	19 30.0	+ 34 22	7.0	51.8	38.2	50.3
3503	19 15.3	+ 34 55	6.4	49.1	38.1	49.8
3551	19 21.6	+ 34 53	7.7	50.2	38.1	50.0
3648	19 24.0	+ 35 1	8.3	50.8	38.0	50.2
3596	19 27.0	+ 34 54	8.6	51.2	38.1	50.1
~~3586~~	~~19 26.1~~	~~+ 34 55~~	~~8.7~~	~~50.3~~	~~38.1~~	
3637	19 32.3	+ 34 41	6.5	51.9	37.9	50.1
~~3640~~	~~19 32.7~~	~~+ 34 56~~	~~6.6~~	~~53.3~~	~~38.1~~	~~50.4~~
3701	19 40.4	+ 34 40	6.6	53.4	38.0	50.3
3764	19 37.7	+ 35 8	8.1	53.1	38.0	50.5
3705	19 31.1	+ 35 21	8.1	52.1	38.2	50.5

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V	H	Type	Lines	K	Focus	other Lines	V	H	V	H	H
5.6	11.0	I?	2	N	1	—	2.8	22.0	35.3	~~29.2~~	27.9
4.9	11.6	I	3	N	1	—	2.4	23.2	35.7	~~28.0~~	26.7
5.0	14.3	I	4	N	1	—	2.5	28.6	35.6	~~22.6~~	21.3
4.8	15.0	I	4	N	1	—	2.4	30.0	35.7	~~21.2~~	19.9
4.5	6.7	I	4	N	2	—	2.2	13.4	35.9	~~37.8~~	36.5
4.3	8.2	I	2	N	1	—	2.2	16.4	35.9	~~34.8~~	33.5
4.5	12.7	I	7	N	2	—	2.2	25.4	35.9	~~25.8~~	24.5
4.4	13.2	I	6	K=H	1	—	2.2	26.4	35.9	~~24.8~~	23.5
4.4	14.6	I	8	N	4	—	2.2	29.2	35.9	~~22.0~~	20.7
3.9	14.0	I	5	N	1	—	2.0	28.0	36.1	~~23.2~~	21.9
4.0	15.4	III	3	K=H	1	—	2.0	30.8	36.1	~~20.4~~	19.1
4.8	18.2	I	4	N	1	—	2.4	36.4	35.7	~~14.8~~	13.5
4.5	19.3	I	4	N	1	—	2.2	38.6	35.9	~~12.6~~	11.3
4.4	20.2	I	6	N	2	—	2.2	40.4	35.9	~~10.8~~	9.5
4.5	22.2	I	5	N	3	—	2.2	44.4	35.9	~~6.8~~	5.5
6.1	19.8	I	3	N	1	—	3.0	39.6	35.1	~~11.6~~	10.3
5.5	21.1	I	2	N	1	—	2.8	42.2	35.3	~~9.0~~	7.7
3.4	17.2	I	3	N	1	—	1.7	34.4	36.4	~~16.8~~	15.5
3.0	10.7	I	6	N	2	—	1.5	21.4	36.5	~~29.8~~	28.5
2.1	7.3	I?	1	N	2	—	1.0	14.6	37.1	~~36.6~~	35.3
2.5	13.6	I	2	N	1	—	1.2	27.2	36.9	~~24.0~~	22.7
2.5	15.2	I	2	N	1	—	1.2	30.4	36.9	~~20.8~~	19.5
2.1	17.2	II?	1	N	1	—	1.0	34.4	37.1	~~16.8~~	15.5
2.0	17.4	I	1	N	2	—	1.0	34.8	37.1	~~16.4~~	15.1
2.0	18.7	I	2	N	1	—	1.0	37.4	37.1	~~13.8~~	12.5
2.5	22.9	I	3	N	1	—	1.2	45.8	36.9	~~5.4~~	4.1

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DM.	R.A.	Dec.	Mag.	H	V	H'
3694	19 29.9	+ 35 23	8.0	51.9	38.2	50.4
3678	19 28.2	+ 35 43	7.9	51.4	38.1	50.2
3623	19 21.6	+ 35 37	7.5	50.2	38.1	49.9
3609	19 19.9	+ 35 43	7.9	49.9	38.1	49.9
3786	19 40.3	+ 35 45	7.0	53.7	38.0	50.5
3754	19 36.6	+ 35 53	7.3	53.0	38.1	50.5
3668	19 25.5	+ 35 56	6.5	50.9	38.1	50.1
3650	19 24.3	+ 36 0	6.5	50.7	38.2	50.1
3557	19 20.9	+ 36 2	5.0	50.1	38.2	50.0
3566	19 22.5	+ 36 14	7.3	50.5	38.2	50.2
3539	19 18.9	+ 36 10	6.7	49.7	38.2	49.8
3552	19 12.0	+ 35 43	8.2	48.4	38.1	49.6
3534	19 9.4	+ 35 55	8.7	48.0	38.1	49.6
3523	19 7.2	+ 35 56	6.8	47.6	38.1	49.6
3485	19 2.1	+ 35 52	5.2	46.5	38.1	49.3
~~3531~~	~~19 8.3~~	~~+ 35 1~~	~~8.2~~	~~47.9~~	~~38.0~~	~~49.6~~
3528	19 8.0	+ 35 18	7.8	47.6	38.3	49.3
3501	19 4.7	+ 35 24	6.8	46.9	38.2	49.3
~~3504~~	~~19 5.0~~	~~+ 35 21~~	~~7.5~~	~~47.2~~	~~38.2~~	~~49.5~~
3502	19 14.6	+ 36 30	7.1	49.0	38.2	49.9
3619	19 30.6	+ 36 37	6.0	52.0	38.1	50.4
3586	19 39.0	+ 37 1	5.4	53.6	38.0	50.4
3574	19 23.5	+ 36 54	7.6	50.7	38.1	50.2
3543	19 19.4	+ 36 55	7.8	49.8	38.1	49.9
~~3550~~	~~19 20.1~~	~~+ 36 58~~	~~7.0~~	~~50.5~~	~~38.2~~	
3417	19 14.6	+ 37 4	6.2	49.0	38.1	49.9
3413	19 13.9	+ 37 11	6.2	48.7	38.2	49.6
3394	19 10.7	+ 37 3	7.5	48.1	38.0	49.6
3341	19 1.4	+ 37 10	7.3	47.2	38.4	50.5

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Plate 15.

V	H	Type	Nro. Lines	K	Focus	other Lines	V	H	V	~~H~~	H
? 20.5	12.8	I?	9	N	5	—	10.2	25.6	27.7	~~24.5~~	24.4
21.1	19.5	I	4	N	1	—	10.6	39.0	27.3	~~11.1~~	11.0
20.1	15.7	I	5	N	1	—	10.0	31.4	27.9	~~18.9~~	18.6
20.2	19.9	I	3	N	1	—	10.1	39.8	27.8	~~10.3~~	10.2
19.0	23.5	I	3	N	2	—	9.5	47.0	28.4	~~3.1~~	3.0
17.7	10.1	I	5	N	2	—	8.8	20.2	29.1	~~29.9~~	29.8
17.5	11.1	I	6	K=5H	2	—	8.8	22.2	29.1	~~27.9~~	27.8
17.3	15.7	I	9	N	4	—	8.6	31.4	29.3	~~18.7~~	18.6
17.6	20.7	I	3	N	1	—	8.8	41.4	29.1	~~8.7~~	8.6
16.5	16.8	I	3	N	1	—	8.2	33.6	29.7	~~16.5~~	16.4
16.1	9.1	III	5	K=H	3	reve.	8.0	18.2	29.9	~~31.9~~	31.8
15.6	10.2	I	3	N	1	—	7.8	20.4	30.1	~~29.7~~	29.6
15.5	9.1	I	4	N	1	—	7.8	18.2	30.1	~~31.9~~	31.8
15.9	7.4	I	2	N	1	—	8.0	14.8	29.9	~~35.3~~	35.2
15.0	7.5	I	5	N	2	—	7.5	15.0	30.4	~~35.1~~	35.0
15.0	22.0	I	5	N	1	—	7.5	44.0	30.4	~~6.1~~	6.0
14.5	18.3	I	5	N	2	—	7.2	36.6	30.7	~~13.5~~	13.4
13.9	19.2	I	5	N	2	—	7.0	38.4	30.9	~~11.7~~	11.6
13.8	21.0	I	6	N	3	—	6.9	42.0	31.0	~~8.1~~	8.0
14.4	15.6	I	3	N	1	—	7.2	31.2	30.7	~~18.9~~	18.8
14.0	11.9	I	3	N	1	—	7.0	23.8	30.9	~~26.3~~	26.2
13.8	10.8	I	3	N	1	—	6.9	21.6	31.0	~~28.5~~	28.4
13.1	21.4	I	3	N	1	—	6.6	42.8	31.3	~~7.3~~	7.2
12.5	17.7	I	5	N	2	—	6.2	35.4	31.7	~~14.7~~	14.6
12.3	17.2	I	5	N	2	—	6.2	34.4	31.7	~~15.7~~	15.6
11.6	7.8	I	6	K=2H	2	—	5.8	15.6	32.1	~~34.5~~	34.4
11.6	9.5	I	4	N	1	—	5.8	19.0	32.1	~~31.1~~	31.0
11.7	20.7	I	4	N	1	—	5.8	41.4	32.1	~~8.7~~	8.6

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DM.	R.A.		Dec.		Mag.	H	V	H'	
3410	19	24.9	+ 27	39	3.0	50.5	37.8	50.0	
3313	19	10.1	+ 27	12	7.0	49.1	37.8	50.1	
3379	19	18.6	+ 27	48	7.0	50.0	37.8	50.3	
3317	19	9.2	+ 27	42	7.2	49.0	37.8	50.1	
3193	19	0.9	+ 28	24	5.7	47.9	37.9	49.9	
3670	19	31.4	+ 29	1	6.8	51.6	37.8	50.3	
3651	19	29.1	+ 29	8	5.8	51.3	37.9	50.3	
3584	19	18.4	+ 29	20	5.2	49.8	37.9	50.1	
3240	19	7.2	+ 28	59	7.0	48.6	37.8	50.1	
3568	19	16.0	+ 29	38	7.2	49.6	37.8	50.1	
3684	19	33.7	+ 29	49	5.3	51.9	37.8	50.4	
3658	19	31.2	+ 30	0	7.8	51.6	37.8	50.3	
3677	19	33.8	+ 30	5	7.3	52.0	37.9	50.4	
3710	19	37.5	+ 29	54	7.3	52.3	37.9	50.3	
3706	19	37.5	+ 30	20	6.2	52.5	37.8	50.5	
3442	19	3.8	+ 30	20	7.0	47.8	37.8	49.7	
3502	19	12.4	+ 30	45	6.9	49.0	38.0	50.0	
3495	19	10.2	+ 30	47	6.8	48.8	37.8	50.1	
3494	19	10.4	+ 30	59	6.9	48.8	38.0	50.1	Look up on plate
3497	19	6.2	+ 31	3	6.0	48.2	37.9	49.9	
3542	19	18.7	+ 30	46	7.0	49.9	38.0	50.1	
3622	19	27.3	+ 30	56	6.9	51.1	37.9	50.2	
3645	19	29.9	+ 30	58	7.6	51.5	37.9	50.2	
3483	19	5.2	+ 31	24	7.3	48.0	38.0	49.8	
3544	19	13.9	+ 31	42	7.1	49.3	37.9	50.2	
3550	19	14.9	+ 31	50	7.0	49.3	38.0	50.0	
3531	19	37.2	+ 32	5	6.0	52.8	37.9	50.5	
3506	19	33.1	+ 32	5	7.5	52.1	37.9	50.4	
3354	19	6.8	+ 32	0	7.6	48.2	37.8	49.8	

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Plate 7/15.

V	H	Type	Lines	K	Focus	other Lines.	V	H	V	H	H
11.3	22.7	I	7	N	3	—	5.6	45.4	32.3	~~4.7~~	4.6
10.0	15.8	I	3	N	1	—	5.0	31.6	32.9	~~18.5~~	18.4
10.2	18.7	I	4	N	1	—	5.1	37.4	32.8	~~24.7~~	12.6
9.8	17.7	I	5	N	2	—	4.9	35.4	33.0	~~14.7~~	14.6
9.5	16.2	III?	1	N	1	—	4.8	32.4	33.1	~~14.7~~	17.6
10.0	15.9	I?	2	N	1	—	5.0	31.8	32.9	~~18.3~~	18.2
9.6	12.6	I	5	N	2	—	4.8	25.2	33.1	~~24.9~~	24.8
10.1	11.7	I	3	N	1	—	5.0	23.4	32.9	~~20.7~~	21.6
9.6	10.5	I	4	N	1	—	4.8	21.0	33.1	~~29.1~~	29.0
9.0	6.3	I	4	K=H	3	—	4.5	12.6	33.4	~~37.5~~	37.4
8.6	9.1	I	6	K=.2H	2	—	4.3	18.2	33.6	~~31.9~~	31.8
8.0	7.4	I	5	N	2	—	4.0	14.8	33.9	~~35.3~~	35.2
7.8	12.4	I	9	N	3	—	3.9	24.8	34.0	~~25.3~~	25.2
8.0	19.7	I	3	N	1	—	4.0	39.4	33.9	~~10.7~~ 4.7	10.6
7.5	22.5	I	3	N	1	—	3.8	45.0	34.1	~~5.1~~	5.0
6.8	21.8	I	4	N	1	—	3.4	43.6	34.5	~~6.5~~	6.5
6.3	16.9	I	6	N	2	—	3.2	33.8	34.7	~~16.3~~	16.2
4.3	6.8	I	4	N	1	—	2.2	13.6	35.7	~~36.5~~	36.4
4.3	12.7	I	5	N	1	—	2.2	25.4	35.7	~~24.7~~	24.6
4.1	14.6	I	8	N	3	—	2.0	29.2	35.9	~~20.9~~	20.8
4.1	20.1	I	4	N	1	—	2.0	40.2	35.9	~~9.9~~	9.8
4.1	22.2	I	6	N	3	—	2.0	44.4	35.9	~~5.7~~	5.6
3.6	19.5	I	4	N	1	—	1.8	39.0	36.1	~~11.1~~	11.0
2.8	10.7	I	5	N	2	—	1.4	21.4	36.5	~~28.7~~	28.6

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DM.	R.A.		Dec.		Mag.	H.	V	H'
3326	19	1.9	+ 32	16	6.0	47.3	37.9	49.8
3411	19	18.1	+ 32	56	6.9	49.7	37.9	50.0
3379	19	11.3	+ 32	52	7.5	48.7	38.0	49.9
3409	19	13.6	+ 33	8	6.8	49.0	38.0	50.2
3434	19	17.1	+ 33	14	6.2	49.8	38.0	50.0
3408	19	17.6	+ 32	47	7.8	49.4	37.8	49.7
3487	19	25.8	+ 33	10	7.0	51.0	38.0	50.2
3474	19	28.0	+ 32	53	7.0	51.4	37.9	50.3
3518	19	30.8	+ 33	8	7.9	51.8	37.9	50.3
3587	19	40.9	+ 33	24	5.4	53.1	37.9	50.1
3547	19	34.3	+ 33	38	6.5	52.5	37.9	50.5
3572	19	38.4	+ 33	49	6.7	53.2	37.8	50.6
3590	19	26.4	+ 34	9	4.6	51.2	38.1	50.3
3378	19	8.9	+ 33	58	7.3	48.3	38.0	49.8
~~3325~~	~~19~~	~~1.5~~	~~+ 33~~	~~49~~	~~8.2~~	40.9	37.8	
3431	19	2.3	+ 34	10	7.5	47.3	38.0	49.8
3439	19	3.8	+ 34	22	6.5	47.4	37.8	49.9
3437	19	3.5	+ 34	31	6.5	46.5	37.9	48.0
3503	19	15.3	+ 34	55	6.4	49.1	38.1	49.8
3786	19	40.3	+ 35	45	7.0	53.9	38.0	50.7
3658	19	25.5	+ 35	56	6.5	50.9	38.1	50.0
3557	19	20.9	+ 36	2	5.0	50.1	38.0	49.9
3523	19	7.2	+ 35	56	6.8	47.4	37.9	49.3
3485	19	2.1	+ 35	52	5.2	46.5	37.9	49.3
3458	19	8.7	+ 36	10	6.9	47.7	38.0	49.4
3619	19	30.6	+ 36	37	6.0	52.0	38.0	50.4

Look up on plate

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Plate 722.

3 45 V	H	Type	No. Lines	K	Focus	Other Lines.	V	H	V	H
21.8	7.5	I	3	N	1	—	10.9	15.0	27.2	34.3
21.6	19.0	I	5	N	1	—	10.8	38.0	27.3	11.3
20.9	12.4	I	6	N	5	—	10.4	24.8	27.7	24.5
20.5	15.2	I	6	N	1	—	10.2	30.4	27.9	18.9
20.7	19.4	I	5	N	1	—	10.4	38.8	27.7	10.5
19.3	23.0	I	4	N	2	—	9.6	46.0	28.5	3.3
19.1	14.6	I	4	N	1	—	9.6	29.2	28.5	20.1
20.0	11.8	I	3	N	1	—	10.0	23.6	28.1	25.7
19.8	10.9	I	3	N	1	—	9.9	21.8	28.2	27.5
17.9	4.1	I	2	N	1	—	9.0	14.2	29.1	35.1
18.0	9.6	I	6	N	2	—	9.0	19.2	29.1	30.1
17.8	10.6	I	8	K=.5H	3	—	8.9	21.2	29.2	28.1
17.9	13.5	?	1	N	1	—	9.0	27.0	29.1	22.3
17.5	15.3	I	12	N	4	—	8.8	30.6	29.2	18.7
18.1	20.2	I	4	N	1	—	9.0	40.4	29.1	8.9
17.0	16.4	I	5	N	1	—	8.5	32.8	29.6	16.5
16.7	17.8	I	4	N	1	—	8.4	35.6	29.7	13.7
17.4	9.5	I	4	N	1	—	8.7	19.0	29.4	30.3
17.1	8.6	I	3	N	1	—	8.6	17.2	29.5	32.1
16.0	7.0	I	4	N	1	—	8.0	14.0	30.1	35.3
15.8	8.7	I	5	N	1	—	7.9	17.4	30.2	31.9
16.0	9.8	I	4	N	1	—	8.0	19.6	30.1	29.7
15.9	20.4	I	3	N	1	—	8.0	40.8	30.1	8.5
15.5	21.7	I	4	N	1	—	7.8	43.4	30.2	5.9
15.4	7.1	I	6	N	3	—	7.7	14.2	30.4	35.1
16.5	8.7	III	5	K=H	3	refer	8.2	17.4	29.9	31.9
15.8	19.5	I	3	N	1	—	7.9	39.0	30.2	10.3
15.6	19.1	III ?	1	N	1	—	7.8	38.2	30.3	11.1

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DM.	R.A.		Dec.		Mag.	H	V
3471	19	36.0	+ 27	3	7.1	51.0	37.9
3313	19	10.1	+ 27	12	7.0	48.1	38.0
3410	19	24.9	+ 27	39	3.0	49.7	38.0
3379	19	18.6	+ 27	48	7.0	49.0	38.0
3314	19	10.2	+ 27	40	6.2	49.0	38.1
3307	19	9.2	+ 27	42	7.2	48.0	38.1
3193	19	0.9	+ 28	24	5.7	46.9	38.0
3319	19	18.6	+ 28	17	7.5	47.3	37.9
3328	19	20.0	+ 28	29	8.0	49.2	38.1
3421	19	26.3	+ 27	58	8.0	49.9	38.0
3392	19	28.4	+ 28	6	8.1	50.2	38.0
3702	19	36.4	+ 29	9	8.0	50.6	38.2
3447	19	37.0	+ 28	59	7.2	51.2	38.0
3670	19	31.4	+ 29	1	6.8	50.6	38.0
3651	19	29.1	+ 29	8	5.8	50.3	38.0
3609	19	22.5	+ 29	9	7.0	49.5	38.2
3584	19	18.4	+ 29	20	5.2	49.0	38.1
3240	19	7.2	+ 28	59	7.0	47.6	38.0
3568	19	16.0	+ 29	38	7.2	48.8	38.1
3550	19	12.8	+ 29	42	8.0	48.4	38.1
3672	19	31.7	+ 29	17	7.5	50.7	38.0
3686	19	33.8	+ 29	25	7.6	51.0	38.0
3710	19	37.5	+ 29	54	7.3	51.5	37.9
3677	19	33.8	+ 30	5	7.3	51.2	38.0
3658	19	31.2	+ 30	0	7.8	50.8	38.0
3464	19	6.7	+ 30	6	7.7	47.5	38.1
3438	19	3.2	+ 30	4	7.0	46.6	37.9
3697	19	36.0	+ 30	28	6.5	50.2	38.2
3706	19	37.5	+ 30	20	6.2	51.7	38.0
3684	19	33.7	+ 29	49	5.3	51.1	38.0
3479	19	8.7	+ 30	6	7.8	47.7	38.0
3491	19	9.8	+ 30	16	5.8	48.0	38.1

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Plate 7 x 22.

V	H	Type	No. Lines	K	Focus	Other Lines.	V	H	V	H
14.6	15.2	I	4	N	1	—	7.3	30.4	30.8	18.9
14.5	17.9	I	6	K=.2H	1	—	7.2	35.8	30.9	13.5
14.1	18.8	I	5	N	2	—	7.0	37.6	31.1	11.7
14.0	20.6	I	7	N	3	—	7.0	41.2	31.1	8.1
13.7	21.0	I	3	N	1	—	6.8	42.0	31.3	7.3
13.2	21.0	I	3	N	1	—	6.6	42.0	31.5	7.3
14.4	11.5	I	4	K=H	1	—	7.2	23.0	30.9	26.3
14.1	10.4	I	5	N	1	—	7.0	20.8	31.1	28.5
14.3	9.9	I	4	N	1	—	7.2	19.8	30.9	29.5
14.3	9.0	I	4	N	1	—	7.2	18.0	30.9	31.3
13.7	6.2	I	3	N	1	—	6.8	12.4	31.3	36.9
14.0	13.0	I	3	N	1	—	7.0	26.0	31.1	23.3
12.7	17.2	I	6	N	2	—	6.4	34.4	31.7	14.9
12.5	16.8	I	5	N	2	—	6.2	33.6	31.9	15.7
12.1	20.2	I	4	N	1	—	6.0	40.4	32.1	8.9
11.6	22.2	I	6	K=H	3	—	5.8	44.4	32.3	4.9
12.6	8.4	I	3	N	1	—	6.3	16.8	31.8	32.5
11.9	7.3	I	7	K=.2H	3	—	6.0	14.6	32.1	34.7
12.0	9.1	I	5	N	1	—	6.0	18.2	32.1	31.1
11.6	8.9	I	3	N	1	—	5.8	17.8	32.3	31.5
10.6	7.8	I	4	N	1	—	5.3	15.6	32.8	33.7
10.5	11.3	II?	3	K=H	1	—	5.2	22.6	32.9	26.7
10.5	15.4	III?	4	K=H	1	—	5.2	30.8	32.9	18.5
10.5	18.3	I	4	N	1	—	5.2	36.6	32.9	12.7
10.0	17.3	I	5	N	2	—	5.0	34.6	33.1	14.7
9.8	15.8	III	3	K=H	1	Rem	4.9	31.6	33.2	17.7
10.0	13.6	I	3	N	1	—	5.0	27.2	33.1	22.1
9.9	12.2	I	6	N	2	—	5.0	24.4	33.1	24.9

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Dm.	R.A.	Dec.	Mag.	H	V
3542	19 18.7	+30 46	7.0	49.1	38.1
3502	19 12.4	+30 45	6.9	48.2	38.0
3494	19 10.4	+30 59	6.9	48.0	38.0
3497	19 6.2	+31 3	6.0	47.4	38.0
3485	19 5.2	+31 5	8.0	47.2	37.9
3483	19 5.2	+31 24	7.3	47.2	38.0
3622	19 27.3	+30 56	6.9	50.3	38.1
3645	19 29.9	+30 58	7.6	50.7	38.0
3655	19 30.9	+30 55	8.2	50.7	38.1
3673	19 33.0	+30 53	7.9	51.0	38.1
3752	19 39.6	+31 4	7.3	52.0	37.9
3622	19 23.9	+31 5	8.1	49.9	38.1
3544	19 13.9	+31 42	7.1	48.3	38.1
3550	19 14.9	+31 50	7.0	48.5	38.0
3354	19 6.8	+32 0	7.6	47.2	38.0
3326	19 1.9	+32 16	6.0	46.3	38.1
3713	19 34.6	+31 43	7.6	51.4	38.0
3531	19 37.2	+32 5	6.0	51.8	38.1
3506	19 33.1	+32 6	7.5	51.3	38.1
3509	19 33.4	+32 14	7.9	51.2	38.0
3526	19 36.1	+32 44	7.0	51.7	38.0
3474	19 28.0	+32 53	7.0	50.6	38.1
3411	19 18.1	+32 56	6.9	48.9	38.1
3379	19 11.3	+32 52	7.5	47.9	38.1
3409	19 13.6	+33 8	6.8	48.2	38.1
3434	19 17.1	+33 14	6.2	48.7	38.1
3463	19 22.4	+33 5	7.4	49.6	38.1
3487	19 25.8	+33 10	7.0	50.2	38.2

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Plate 722.

V	H	Type	No. Lines	K	Focus	other Lines.	V	H	V	H
9.9	10.1	I	5	N	1	—	5.0	20.2	33.1	29.1
9.2	5.8	I	6	K=H	3	—	4.6	11.6	33.5	37.7
9.0	8.7	I	6	K=.2 H	2	—	4.5	17.4	33.6	31.9
8.5	7.0	I	6	N	2	—	4.2	14.0	33.9	35.3
8.5	10.6	I	4	N	1	—	4.2	21.2	33.9	28.1
8.0	12.0	I	8	N	5	—	4.0	24.0	34.1	25.3
8.3	19.2	I	4	N	1	—	4.2	38.4	33.9	10.9
8.1	23.6	I	4	N	1	—	4.0	47.2	34.1	2.1
7.9	22.0	I	3	N	1	—	4.0	44.0	34.1	5.3
7.1	21.5	I	5	N	2	—	3.6	43.0	34.5	6.3
6.5	16.6	I	6	N	2	—	3.2	33.2	34.9	16.1
6.5	13.9	I	4	N	1	—	3.2	27.8	34.9	21.5
7.5	10.5	I	5	N	1	—	3.8	21.0	34.3	28.3
6.5	14.0	I	3	N	1	—	3.2	28.0	34.9	21.3
5.5	10.6	I	2	N	1	—	2.8	21.2	35.3	28.1
4.5	21.9	I	6	N	3	—	2.2	43.8	35.9	5.5
4.3	19.8	I	5	N	1	—	2.2	39.6	35.9	9.7
3.9	19.2	I	4	N	1	—	2.0	38.4	36.1	10.9
4.4	14.2	I	7	N	4	—	2.2	28.4	35.9	20.9
5.1	14.0	I	3	N	1	—	2.6	28.0	35.5	21.3
4.4	12.9	I	5	K=H	1	—	2.2	25.8	35.9	23.5
4.5	12.4	I	6	N	2	—	2.2	24.8	35.9	24.5
4.8	11.3	I	4	N	1	—	2.4	22.6	35.7	26.7
4.5	6.3	I	4	N	2	—	2.2	12.6	35.9	36.7
3.0	10.4	I	6	N	2	—	1.5	20.8	36.6	28.5
1.8	17.1	I	1	N	1	—	0.9	34.2	37.2	15.1
9.1	24.4	I	4	N	2	—	4.6	48.8	33.5	0.5

6.5 13.9 ?
Is this the same as

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DM.	R.A.		Dec.		Mag.	H	V
3518	19	30.8	+ 33	8	7.9	51.0	38.1
3587	19	40.9	+ 33	24	5.4	52.5	38.0
3547	19	34.3	+ 33	38	6.5	51.7	38.1
3572	19	38.4	+ 33	48	6.7	52.4	38.0
3510	19	29.7	+ 33	53	8.0	50.9	38.1
3590	19	26.4	+ 34	9	4.6	50.4	38.2
3378	19	8.9	+ 33	58	7.3	47.3	38.2
3309	18	58.6	+ 33	56	7.2	105.8	37.9
3431	19	2.3	+ 34	10	7.5	46.3	38.2
3437	19	3.5	+ 34	31	6.5	46.5	38.1
3503	19	15.3	+ 34	55	6.4	48.5	38.1
3554	19	21.7	+ 34	34	7.7	49.5	37.8
3620	19	30.0	+ 34	22	7.0	51.0	38.2
3551	19	21.6	+ 34	53	7.7	49.6	38.1
3694	19	29.9	+ 35	23	8.0	51.1	38.2
3485	19	2.1	+ 35	52	5.2	45.9	38.1
3523	19	7.2	+ 35	56	6.8	46.8	38.1
3458	19	8.7	+ 36	10	6.9	47.1	38.2
3557	19	20.9	+ 36	2	5.0	49.3	38.2
3623	19	21.6	+ 35	37	7.5	49.6	38.2
3650	19	24.3	+ 35	60	6.5	50.1	38.2
3658	19	25.5	+ 35	56	6.5	50.3	38.1
3678	19	28.2	+ 35	43	7.9	50.8	38.1
3787	19	40.4	+ 35	44	8.3	53.0	37.9
3786	19	40.3	+ 35	45	7.0	52.9	38.0
3619	19	30.6	+ 36	37	6.0	51.4	38.1
3413	19	13.9	+ 37	11	6.2	48.1	38.1
3417	19	14.6	+ 37	4	6.2	48.8	38.0
3295	18	56.5	+ 33	24	7.1	105.3	38.0
3287	18	55.6	+ 33	36	6.8	104.4	38.2

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October 1, 1886.

Plate 76

V	H	Type	No. Lines	K	Focus	other Lines.	V	H	V	H
18.5	15.4	I	5	K=H	2	—	9.2	30.8	18.8	60.2
18.0	14.0	I?	1	N	1	—	9.0	28.0	19.0	63.0
17.9	21.9	I	5	N	2	—	9.0	43.8	19.0	47.2
17.5	22.8	I	5	N	2	—	8.8	45.6	19.2	45.4
15.5	7.8	I	3	N	1	—	7.8	15.6	20.2	75.4
15.5	14.0	I	4	N	2	—	7.8	28.0	20.2	63.0
16.2	23.8	II?	2	K=H	1	—	8.1	47.6	19.9	43.4
14.0	15.2	I	6	N	3	—	7.0	30.4	21.0	60.6
11.5	11.1	I	3	N	1	—	5.8	22.2	22.2	68.8
6.9	15.5	I	9	K=H	5	—	3.4	31.0	24.6	60.0
6.5	14.9	I	5	K=.8H	1	—	3.2	29.8	24.8	61.2
5.5	21.7	I	6	N	3	—	2.8	43.4	25.2	47.6

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DM.	R.A.		Dec.		Mag.	H	V	
4930	22	0.6	+18	46	6.1	31.4	28.0	
4946	22	3.4	+18	55	7.0	31.4	27.9	
4879	21	46.8	+18	60	5.8	90.6	28.0	
4797	21	44.8	+19	9	5.5	90.4	28.0	
5139	22	16.7	+20	6	6.0	32.3	27.9	Look up on plate.
5093	22	3.7	+20	16	6.0	31.7	28.1	
4793	21	42.7	+19	48	6.5	90.3	27.9	
4695	22	1.0	+21	0	5.8	31.4	28.0	
4601	22	9.8	+22	11	6.7	32.0	28.0	
4533	22	0.3	+24	39	4.0	31.3	28.0	
4540	22	1.6	+24	50	7.0	31.4	28.0	
4635	21	46.5	+25	14	5.5	89.7	28.0	Look up on plate.

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October 4. 1886.

Plate 747.

V	H	Type	No. Lines	K	Focus	Other Lines	V	H	V	H
21.6	16.3	I	7	N	3	—	10.8	32.6	7.3	55.8
20.1	7.1	I	5	N	4	—	10.0	14.2	8.1	74.2
19.2	15.5	I	4	N	2	—	9.6	31.0	8.5	57.4
18.2	15.0	II	3	N	5	—	9.1	30.0	9.0	58.4
12.6	14.5	I	4	N	1	—	6.3	29.0	1.8	59.4
12.0	13.3	I	4	N	1	—	6.0	26.6	2.1	61.8
7.6	15.0	III	1	N	1	—	3.8	30.0	43	58.4
6.0	7.6	I	4	N	2	—	3.0	15.2	5.1	73.2
5.3	12.8	I	9	K=.2H	5	—	2.6	25.6	5.5	62.8
11.0	17.7	I	5	N	1	—	2.0	35.4	6.1	53.0
5.7	18.8	I	2	N	1	—	2.8	37.6	53	50.8

Plate 733.

22.8	8.1	I	5	N	1	—	11.4	16.2	21.6	33.2
22.9	8.8	I	5	N	3	—	11.4	17.6	21.6	31.8
22.9	12.3	I	4	N	2	—	11.4	24.6	21.6	24.8
22.6	12.1	I	4	N	1	—	11.3	24.2	21.7	25.2
22.2	17.4	I	4	N	2	—	11.1	34.8	21.9	14.6
22.1	20.5	I	4	N	2	—	11.0	41.0	22.0	8.4
22.7	21.7	I ?	2	N	3	—	11.4	43.4	21.6	6.0
21.1	12.1	II ?	2	K=H	2	—	10.6	24.2	22.4	25.2
20.7	17.9	I	4	N	1	—	10.4	35.8	22.6	13.6
20.8	11.5	I	3	N	1	—	10.4	23.0	22.6	26.4
20.7	5.8	I	3	N	2	—	10.4	11.6	22.6	37.8
19.2	6.7	I	4	N	2	—	9.6	13.4	23.4	36.0
19.5	9.1	III	3	K=H	2	—	9.8	18.2	23.2	31.2
18.5	4.7	I	5	N	2	—	9.2	15.4	23.8	34.0
18.6	9.1	I	7	N	5	—	9.3	18.2	23.7	31.2

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Dm.	R.A.	Dec.	Mag.	H	V
5681	21 55.8	− 2 57	5.3		
5741	22 14.2	− 2 7	4.0		
4242	21 57.3	− 1 36	6.0	88.3	18.0
4246	21 58.4	− 1 1	2.8	88.4	18.1
4584	21 59.3	+ 1 44	7.0	88.3	8.0
4474	22 1.8	+ 2 1	7.2	28.4	8.0
4800	21 58.4	+ 4 22	5.0	88.4	8.2
4998	22 13.2	+ 5 4	6.1	28.4	8.1
4961	22 2.9	+ 5 29	3.4	28.5	8.1
4940	21 52.9	+ 6 2	6.0	88.3	8.0
4910	21 50.8	+ 5 16	7.0	88.4	8.1
4318	20 34.2	+ 21 25	7.2	50.4	32.8
4305	20 32.7	+ 21 19	6.0	50.3	32.7
4247	20 25.1	+ 21 25	6.5	49.7	32.8
4253	20 26.7	+ 21 40	7.5	50.9	33.0
4164	20 14.4	+ 21 50	7.0	49.2	32.9
4109	20 7.7	+ 21 47	7.0	48.7	32.8
4088	20 5.0	+ 21 27	6.0	48.4	32.8
4093	20 25.8	+ 22 20	7.0	50.0	32.9
4013	20 13.2	+ 22 33	8.1	49.0	33.0
4009	20 12.5	+ 22 29	8.0	48.8	32.9
4101	20 27.0	+ 22 30	8.1	50.0	32.9
4176	20 39.3	+ 22 29	8.0	50.9	32.9
4124	20 37.4	+ 23 16	7.5	50.8	32.9
4085	20 32.3	+ 23 10	6.8	50.5	33.0
4107	20 35.4	+ 23 40	7.3	50.8	32.9
4084	20 32.2	+ 23 37	5.3	50.4	32.9

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Plate 433.

V	H	Type	No. Lines	K	Fours	Other Lines	V	H	V	H
18.7	13.1	I	3	N	1	—	9.4	26.2	23.6	23.2
19.3	14.2	I	5	N	2	—	9.6	28.4	23.4	21.0
19.5	16.0	I	4	N	1	—	9.8	32.0	23.2	17.4
19.8	19.7	III	3	K=H	3	—	9.9	39.4	23.1	10.0
19.7	20.7	I	3	N	1	—	9.8	41.4	23.2	8.0
19.1	21.1	I	3	N	1	—	9.6	42.2	23.4	7.2
18.9	21.2	I	3	N	1	—	9.4	42.4	23.6	7.0
19.5	23.7	I	4	N	4	—	9.8	47.4	23.2	2.0
18.4	15.6	I	3	N	1	—	9.2	31.2	23.8	18.2
18.0	16.6	I	8	N	4	—	9.0	33.2	24.0	16.2
18.3	20.5	I	4	N	2	—	9.2	41.0	23.8	8.4
17.5	19.0	III	3	K=H	3	—	8.8	38.0	24.2	11.4
17.5	20.5	I	3	N	1	—	8.8	41.0	24.2	8.4
17.1	20.0	I	5	N	2	—	8.6	40.0	24.4	9.4
17.4	9.1	I	4	N	2	—	8.7	18.2	24.3	31.2
16.6	21.9	I	4	N	2	—	8.3	43.8	24.7	5.6
16.5	15.4	I	5	N	2	—	8.2	30.8	24.8	18.6
16.2	15.0	I	3	N	1	—	8.1	30.0	24.9	19.4
16.0	14.5	I	3	N	1	—	8.0	29.0	25.0	20.4
17.5	14.3	I	3	N	1	—	8.8	28.6	24.2	20.8
16.7	13.8	I	3	N	1	—	8.4	27.6	24.6	21.8
16.2	12.1	I	4	N	1	—	8.1	24.2	24.9	25.2
16.0	10.3	I	4	N	2	—	8.0	20.6	25.0	28.8
15.8	9.1	I.	4	N	1	—	7.9	18.2	25.1	31.2
16.3	6.4	III	6	K=H	3	—	8.2	12.8	24.8	36.6
15.2	7.0	I	4	N	2	—	7.6	14.0	25.4	35.4
14.5	6.0	?	2	N	1	—	7.2	12.0	25.8	37.4
14.7	8.2	I	5	N	3	—	7.4	16.4	25.6	33.0

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DM.	R.A.		Dec.		Mag.	H	V
4038	20	23.5	+ 23	35	8.2	49.7	33.0
4023	20	21.1	+ 23	19	7.5	49.5	32.9
3999	20	17.1	+ 23	12	8.5	49.1	33.0
3944	20	9.3	+ 23	4	5.5	48.7	33.0
3933	20	7.2	+ 23	1	8.0	48.6	32.8
3925	20	6.2	+ 23	22	8.7	48.4	33.0
~~3924~~	~~20~~	~~5.8~~	~~+ 23~~	~~29~~	~~8.0~~	~~48.0~~	~~33.1~~
3921	20	5.8	+ 23	29	8.0	48.2	32.9
~~3916~~	~~20~~	~~5.2~~	~~+ 23~~	~~47~~	~~8.3~~	~~49.6~~	~~33.2~~
3896	20	0.7	+ 23	12	5.2	48.1	33.0
4004	20	18.2	+ 23	49	7.5	49.4	33.0
3986	20	15.8	+ 23	60	6.1	49.0	33.0
3935	20	7.4	+ 23	48	7.0	48.4	33.0
4075	20	10.6	+ 24	13	6.0	48.6	33.0
4047	20	7.4	+ 24	6	8.1	48.4	32.9
4053	20	8.3	+ 24	24	8.0	48.3	33.0
4205	20	32.5	+ 24	16	7.7	50.7	33.0
4029	20	4.3	+ 24	38	7.4	48.1	32.9
4116	20	18.6	+ 24	43	8.0	49.4	32.9
4125	20	19.5	+ 24	53	8.2	49.5	33.0
4237	20	20.5	+ 25	1	8.2	49.5	33.0
4134	20	21.1	+ 24	14	8.3	49.7	33.0
4141	20	22.1	+ 24	36	8.5	49.7	33.0
4157	20	25.9	+ 24	52	8.4	50.1	33.0
4183	20	29.7	+ 24	59	8.2	50.3	33.0
4310	20	32.5	+ 25	2	8.1	50.7	32.9
4229	20	38.6	+ 24	45	5.7	51.4	33.0
4347	20	37.1	+ 25	18	7.5	51.1	32.9
4364	20	39.3	+ 25	35	8.0	51.3	32.8
4329	20	34.5	+ 25	34	7.0	50.9	33.0

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Plate 733.

V.	H	Type	No. Lines	K	Focus	other Lines	V	H	V	H
14.7	8.8	?	2	N	1	—	7.4	17.6	25.6	31.8
15.2	10.2	I	6	N	3	—	7.6	20.4	25.4	29.0
15.1	11.3	I	3	N	2	—	7.6	22.6	25.4	26.8
15.4	12.1	I	6	K=.2H	3	—	7.7	24.2	25.3	25.2
14.6	13.9	I	4	K=.2H	2	—	7.3	27.8	25.7	21.6
14.4	16.3	III ?	1	N	1	—	7.2	32.6	25.8	16.8
14.2	16.5	I	3	N	1	—	7.1	33.0	25.9	16.4
14.6	17.9	I	2	N	1	—	7.3	35.8	25.7	13.6
15.0	19.1	I	4	N	1	—	7.5	38.2	25.5	11.2
15.5	19.6	I	9	N	5	—	7.8	39.2	25.2	10.2
15.5	20.9	I	2	N	1	—	7.8	41.8	25.2	7.6
13.5	8.7	I	4	N	2	—	6.8	17.4	26.2	32.0
14.0	9.8	I	7	N	5	—	7.0	19.6	26.0	29.8
14.0	12.5	I	2	N	1	—	7.0	25.0	26.0	24.4
13.6	12.5	?	1	N	1	—	6.8	25.0	26.2	24.4
13.5	14.9	?	1	N	1	—	6.8	29.8	26.2	19.6
13.5	14.2	I	2	N	1	—	6.8	34.4	26.2	15.0
13.8	21.0	I	6	N	4	—	6.9	42.0	26.1	7.4
13.2	21.0	I	2	N	1	—	6.6	42.0	26.4	7.4
13.1	21.1	I	4	N	2	—	6.6	42.2	26.4	7.2
13.0	21.6	I	7	N	4	—	6.5	43.2	26.5	6.2
12.8	8.4	I	5	N	1	—	6.4	16.8	26.6	32.6
12.8	9.9	I	3	N	1	—	6.4	19.8	26.6	29.6
12.6	11.7	III	1	N	1	—	6.3	23.4	26.7	26.0
12.6	16.2	I	4	N	1	—	6.3	32.4	26.7	17.0
12.8	18.8	I	4	N	2	—	6.4	37.6	26.6	11.8
12.4	19.7	I	4	N	1	—	6.2	39.4	26.8	10.0
12.2	20.5	I	4	N	2	—	6.1	41.0	26.9	8.4

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Dm.	R.A.	Dec.	Mag.	H	V
4312	20 33.1	+ 25 34	7.3	50.7	33.0
4299	20 29.9	+ 25 23	7.2	50.3	33.0
4281	20 27.4	+ 25 23	7.9	50.0	33.0
4272	20 25.8	+ 25 19	6.0	50.0	33.0
4247	20 21.6	+ 25 40	7.8	49.4	33.0
4215	20 16.4	+ 25 50	7.3	49.0	33.0
4212	20 16.0	+ 25 53	8.1	49.0	33.0
4193	20 13.0	+ 25 39	8.2	48.8	32.9
4173	20 10.3	+ 25 26	8.0	48.5	32.9
4165	20 9.1	+ 25 9	5.2	48.3	33.0
4149	20 6.4	+ 25 13	7.5	48.2	33.0
3947	20 33.3	+ 26 11	7.5	50.7	33.0
4302	20 30.9	+ 25 58	6.0	50.5	33.0
4268	20 24.9	+ 25 60	8.7	49.9	33.0
3917	20 24.8	+ 26 12	7.7	49.8	33.0
3897	20 19.5	+ 26 14	8.2	49.3	33.0
3871	20 14.4	+ 26 17	8.3	48.8	33.1
3828	20 5.9	+ 26 3	6.2	47.9	32.9
3826	20 5.8	+ 26 28	6.5	47.8	33.1
3825	20 5.7	+ 26 23	5.8	47.9	33.0
3815	20 4.5	+ 26 28	5.7	47.7	33.0
3953	20 34.0	+ 26 34	8.1	50.8	33.0
3938	20 30.8	+ 26 34	8.4	50.6	33.0
3928	20 26.7	+ 26 43	7.1	50.1	33.0
3884	20 16.8	+ 26 40	8.5	49.2	33.0
3850	20 10.8	+ 26 36	7.9	48.4	33.0
3838	20 8.7	+ 26 49	8.4	48.1	33.0
3831	20 7.0	+ 26 51	7.9	48.0	32.9

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Plate 733

V.	H.	Type	No. Lines	K	Focus	Other Lines	V	H	V	H
12.3	22.6	I	4	N	1	—	6.2	45.2	26.8	4.2
11.5	7.9	I	3	N	1	—	5.8	15.8	27.2	33.6
11.6	10.5	I	3	N	1	—	5.8	21.0	27.2	28.4
11.2	11.3	I	4	N	1	—	5.6	22.6	27.4	26.8
10.7	11.3	I	5	N	1	—	5.4	22.6	27.6	26.8
11.3	12.8	I	5	N	2	—	5.6	25.6	27.4	23.8
11.9	16.9	I	3	N	1	—	6.0	33.8	27.0	15.6
11.5	17.1	I	4	N	2	—	5.8	34.2	27.2	15.2
11.6	17.7	I	2	N	1	—	5.8	35.4	27.2	14.0
11.4	18.9	I	5	N	3	—	5.7	37.8	27.3	11.6
11.4	19.2	III	6	K=H	3	reen	5.7	38.4	27.3	11.0
Recorded above.	~~10.6~~	~~11.3~~	~~I~~	~~5~~	~~N~~	~~1~~	~~—~~	~~5.3~~	~~22.6~~	~~27.7~~	~~26.8~~
10.1	10.7	I ?	2	N	1	—	5.0	21.4	28.0	28.0
9.8	10.8	I	3	N	1	—	4.9	21.6	28.1	27.8
9.8	12.3	I	3	N	1	—	4.9	24.6	28.1	24.8
10.3	13.3	I	2	N	2	—	5.2	26.6	27.8	22.8
10.0	13.4	I	4	N	2	—	5.0	26.8	28.0	22.6
9.9	13.5	I	2	N	1	—	5.0	27.0	28.0	22.4
9.5	13.5	I	4	N	1	—	4.8	27.0	28.2	22.4
10.0	15.2	I	2	N	1	—	5.0	30.4	28.0	19.0
9.3	16.4	I	4	N	1	—	4.6	32.8	28.4	16.6
9.0	15.5	I	5	K=.5H	2	—	4.5	31.0	28.5	18.4
9.9	18.8	I	5	N	2	—	5.0	37.6	28.0	11.8
9.5	19.8	I	9	K=.5H	4	—	4.8	39.6	28.2	9.8
10.0	21.5	I	2	N	1	—	5.0	43.0	28.0	6.4
10.3	21.7	I	4	N	1	—	5.2	43.4	27.8	6.0
9.9	21.5	I	4	N	2	—	5.0	43.0	28.0	6.4
9.0	18.5	I	4	N	1	—	4.5	37.0	28.5	12.4

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DM.	R.A.	Dec.	Mag.	H	V
3803	20	2.3 + 26	47 8.0	47.5	33.0
3829	20	35.2 + 27	8 8.4	51.0	32.9
3800	20	29.4 + 27	9 8.2	50.4	33.0
3788	20	27.7 + 27	23 7.8	50.3	33.0
3787	20	27.7 + 27	38 8.3	50.3	33.0
3768	20	24.3 + 27	21 7.3	49.9	33.0
3703	20	15.1 + 27	3 8.1	48.9	33.0
3699	20	14.7 + 27	19 8.2	48.9	33.1
3686	20	13.3 + 27	6 8.3	48.7	32.9
3668	20	10.4 + 27	21 7.1	48.2	33.1
3666	20	9.8 + 27	22 48	48.2	33.1
~~3787~~	~~20~~	~~27.7 + 27~~	~~38 8.3~~	~~49.3~~	~~32.9~~
3799	20	29.1 + 27	55 8.2	50.5	32.9
3799	20	28.8 + 28	4 8.7	50.3	33.0
3780	20	25.4 + 28	8 8.9	50.0	33.0
3757	20	23.1 + 27	53 7.6	49.7	33.1
3756	20	23.0 + 27	59 7.6	49.8	33.0
~~3764~~	~~20~~	~~22.7 + 28~~	~~5 8.8~~	~~49.7~~	~~33.1~~
3762	20	22.6 + 28	2 8.2	49.6	33.0
3763	20	22.6 + 28	18 7.8	49.6	33.1
3740	20	18.7 + 28	4 8.0	49.1	33.1
3717	20	16.1 + 28	23 8.2	48.9	33.0
3735	20	18.2 + 28	32 7.4	49.2	33.0
3685	20	10.7 + 28	5 7.7	48.3	33.1
3675	20	8.3 + 28	15 6.0	47.9	33.0
3647	20	4.9 + 28	3 8.4	47.9	33.0
3636	20	4.1 + 27	60 7.6	47.5	33.0
3645	20	4.6 + 28	0 7.1	47.6	33.0
3689	20	11.3 + 28	29 8.0	48.3	33.0

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Plate 433.

V	H	Type	No. Lines	K	Focus	other Lines.	V	H	V	H
8.4	18.4	III	4	K=H	2	—	4.4	36.8	28.6	12.6
8.4	6.8	I	4	N	1	—	4.4	13.6	28.6	35.8
8.2	15.4	I	4	N	1	—	4.1	30.8	28.9	18.6
8.0	17.4	I	4	N	1	—	4.0	35.4	29.0	14.0
8.0	21.4	I	3	N	2	—	4.0	42.8	29.0	6.6
7.5	17.4	I	6	N	3	—	3.8	34.8	29.2	14.6
7.6	11.2	I	3	N	1	—	3.8	22.4	29.2	27.0
7.5	9.5	I	3	N	1	—	3.8	19.0	29.2	30.4
7.5	8.3	I	5	N	4	—	3.8	16.6	29.2	32.8
7.0	13.4	I	3	N	1	—	3.5	26.8	29.5	22.6
6.8	13.8	I	4	N	1	—	3.4	27.6	29.6	21.8
6.4	14.2	I	5	N	2	—	3.2	28.4	29.8	21.0
6.0	12.9	I	4	N	1	—	3.0	25.8	30.0	23.6
6.5	13.2	I	9	K=H	5	—	3.2	26.4	29.8	23.0
6.6	10.7	I	4	N	2	—	3.3	21.4	29.7	28.0
6.4	9.0	III	4	K=H	3	—	3.2	18.0	29.8	31.4
5.9	9.4	I	4	N	2	—	3.0	18.8	30.0	30.6
6.0	8.8	I	3	N	1	—	3.0	17.6	30.0	31.8
5.5	6.2	III	4	K=H	4	—	2.8	12.4	30.2	37.0
6.6	16.7	I	4	N	1	—	3.3	33.4	29.7	16.0
5.9	16.6	I	5	N	2	—	3.0	33.2	30.0	16.2
6.5	19.7	I	4	N	2	—	3.2	39.4	29.8	10.0
6.3	21.3	I	3	N	1	—	3.2	42.6	29.8	6.8
5.3	21.1	I	5	N	2	—	2.6	42.2	30.4	7.2
5.5	19.1	I	3	N	1	—	2.8	38.2	30.2	11.2
5.1	15.7	I	3	N	1	—	2.6	31.4	30.4	18.0
4.5	16.1	III	2	N	2	—	2.2	32.2	30.8	17.2
4.0	18.5	I	6	N	3	—	2.0	37.0	31.0	12.4

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DM.	R.A.		Dec.		Mag.	H	V
3695	20	11.6	+ 28	42	7.0	48.4	33.1
3869	20	38.0	+ 28	37	8.1	51.6	33.0
3738	20	18.4	+ 28	54	8.3	49.2	33.0
3989	20	13.2	+ 29	3	7.2	48.6	33.0
3646	20	4.6	+ 28	56	7.5	47.4	32.9
3992	20	13.9	+ 29	16	6.8	48.7	33.1
~~4080~~	~~20~~	~~27.4~~	~~+ 29~~	~~2~~	~~7.5~~	~~49.8~~	~~32.6~~
4085	20	28.0	+ 29	11	8.3	50.4	33.0
4112	20	31.8	+ 29	13	8.0	50.8	33.0
4131	20	34.6	+ 29	18	6.5	49.6	33.1
4052	20	23.0	+ 29	29	8.3	49.8	33.0
4044	20	22.1	+ 29	39	8.2	49.7	33.0
4038	20	21.1	+ 29	54	7.5	49.5	33.1
4055	20	24.1	+ 30	4	7.9	49.9	33.1
4057	20	23.5	+ 29	53	7.2	49.9	33.1
4092	20	29.2	+ 29	46	7.8	50.6	33.1
4121	20	33.0	+ 29	50	6.5	51.0	33.0
4108	20	32.2	+ 30	4	7.2	51.0	33.1
4124	20	33.6	+ 29	60	7.8	51.2	33.0
4167	20	39.7	+ 30	11	4.3	52.1	33.0
4001	20	15.4	+ 30	44	8.0	48.8	33.0
3998	20	15.6	+ 30	8	7.4	48.8	33.1
3948	20	8.4	+ 29	46	7.0	47.8	33.0
3926	20	4.7	+ 29	50	7.7	47.3	33.0
3929	20	5.1	+ 30	21	6.8	47.3	33.0
3959	20	9.3	+ 30	10	8.3	47.5	33.0
~~3966~~	~~20~~	~~9.9~~	~~+ 30~~	~~18~~	~~8.8~~	~~48.1~~	~~33.1~~
4010	20	17.5	+ 30	26	8.4	48.9	33.0
4005	20	16.8	+ 30	48	6.5	49.0	33.0
4020	20	11.1	+ 31	4	6.5	48.1	33.1

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Plate 733.

V	H	Type	Pro. Lines	K	Focus	Other Lines	V	H	V	H
4.1	24.0	I	3	N	2	—	2.0	48.0	31.0	1.4
4.0	16.0	II?	1	N	1	—	2.0	32.0	31.0	17.4
3.7	15.6	I	4	N	1	—	1.8	31.2	31.2	18.2
4.0	9.7	I	7	N	3	—	2.0	19.4	31.0	30.0
4.3	7.7	I	5	N	2	—	2.2	15.4	30.8	34.0
2.9	9.7	I	4	N	1	—	1.4	19.4	31.6	30.0
2.4	8.2	?	1	N	2	—	1.2	16.4	31.8	33.0
~~2.9~~	~~9.7~~	~~I~~	~~4~~	~~N~~	~~1~~	~~—~~	~~1.4~~	~~19.4~~	~~31.6~~	~~30.0~~
2.3	9.9	I	3	N	1	—	1.2	19.8	31.8	29.6
2.0	10.9	I	1	N	1	—	1.0	21.8	32.0	27.6
2.8	15.5	III	6	K=H	3	Reen	1.4	31.0	31.6	18.4
3.0	16.9	I	5	N	1	—	1.5	33.8	31.5	15.6
3.0	17.4	I	4	N	1	—	1.5	34.8	31.5	14.6
2.8	17.8	I	4	N	1	—	1.4	35.6	31.6	13.8
3.0	19.6	I	4	N	1	—	1.5	39.2	31.5	10.2
2.8	20.4	I	3	N	1	—	1.4	40.8	31.6	8.6
2.4	20.9	I	4	N	2	—	1.2	41.8	31.8	7.6
2.6	22.4	I	4	N	1	—	1.3	44.8	31.7	4.6
2.2	23.7	?	0	N	2	—	1.1	47.4	31.9	2.0

Plate 762 3 R.

19.4	11.8	I	7	N	3	—	9.7	23.6	8.1	47.9
17.4	13.3	I	6	K=H	2	—	8.7	26.6	9.1	44.9
16.1	13.3	I	2	N	1	—	8.0	26.6	9.8	44.9
16.0	14.7	I	5	K=H?	1	—	8.0	29.4	9.8	42.1
15.5	18.6	I	9	N	5	—	7.8	37.2	10.0	34.3
15.1	17.5	I	3	N	1	—	7.6	35.0	10.2	36.5
13.6	9.9	I	5	K=5H	2	—	6.8	19.8	11.0	51.7

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DM.	R.A.	Dec.	Mag.	H	V
3876	19 58.5	+30 50	7.4	106.5	32.8
~~4056~~	20 16.9	+31 5	7.0	48.9	33.1
4061	20 17.9	+31 13	8.0	49.1	33.0
4159	20 31.6	+31 4	6.2	51.0	33.1
4145	20 36.1	+30 48	6.8	51.5	33.0
4158	20 31.6	+31 33	7.5	51.0	33.0
4181	20 35.2	+31 48	6.0	51.6	33.0
~~4154~~	~~20 31.1~~	~~+31 51~~	~~7.1~~	~~50.5~~	~~33.2~~
4158	20 31.1 30.9	+31 51	7.1 8.6	50.9	33.0
3865	20 28.9	+32 1	6.7	50.7	33.0
4062	20 18.1	+31 43	5.0	49.1	33.1
4042	20 14.7	+31 34	7.2	48.5	33.1
4033	20 13.7	+31 36	7.0	48.5	33.1
4029	20 12.6	+31 40	7.0	48.2	33.1
4001	20 8.5	+31 33	7.0	47.7	33.1
3988	20 6.6	+31 39	8.0	47.4	33.0
3980	20 5.4	+31 52	7.5	47.2	33.1
3953	20 2.0	+31 40	8.0	46.8	33.0
3925	19 58.9	+31 49	6.0	106.3	32.9
4961	22 47.9	+8 3	4.7	71.5	17.7
5122	22 45.1	+9 5	5.0	71.7	17.8
5123	22 45.1	+9 38	7.5	71.7	17.6
5111	22 42.3	+9 44	6.8	71.7	17.7
4797	22 34.3	+10 5	3.5	71.5	17.9
4805	22 36.5	+10 12	7.3	71.5	17.8
4859	22 51.9	+10 57	6.1	71.7	17.8

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Plate 76 3/4.

V	H	Type	No. Lines	K	Focus	Other Lines		V	H	V	H	H
13.4	11.1	I	6	K=.2H	1	—		6.7	22.2	11.1	49.3	
12.9	16.1	I	8	K=H	4	—		6.4	32.2	11.4	39.3	
13.7	21.0	I	5	N	1	—		6.8	42.0	11.0	29.5	
8.3	18.4	?	1	N	1	—		4.2	36.8	13.6	34.7	
8.1	18.9	II?	3	K=H	1	—		4.0	37.8	13.8	33.7	
7.0	7.0	I	3	N	1	—		3.5	14.0	14.3	57.5	
6.7	7.3	I	9	N	5	Bright Lines.		3.4	14.6	14.4	56.9	
7.0	13.5	I	4	N	1	—		3.5	27.0	14.3	44.5	
10.9	22.8	I	3	N	1	—		5.4	45.6	12.4	26.9	

Plate 76 6/8.

20.7	12.6	I	4	N	1	—		10.4	25.2	22.0	63.7	63.7
17.0	6.5	I	4	N	1	—		8.5	13.0	23.9	75.4	75.9
15.0	6.5	I	5	N	1	—		7.5	13.0	24.9	75.4	75.9
13.2	6.3	I	5	N	1	—		6.6	12.6	25.8	75.8	76.3
13.2	22.9	I	3	N	1	—		6.6	45.8	25.8	42.6	43.1
12.0	14.5	I	2	N	1	—		6.0	29.0	26.4	59.4	59.9
11.6	20.9	III	8	K=H	3	—		5.8	41.8	26.6	46.6	47.1
10.7	6.2	I	3	N	1	—		5.4	12.4	27.0	76.0	76.5
10.8	21.8	I	4	N	1	—		5.4	43.6	27.0	44.8	45.3
10.4	22.7	I	3	N	1	—		5.2	45.4	27.2	43.0	43.5
9.7	10.8	III	4	K=H	1	—		4.8	21.6	27.6	66.8	67.3
9.2	21.1	I?	2	N	1	—		4.6	42.2	27.8	46.2	46.7
8.8	19.8	I	4	N	1	—		4.4	39.6	28.0	48.8	49.3
6.5	12.1	I	5	N	1	—		3.2	24.2	29.2	64.2	64.7
5.6	11.6	III	6	K=H	3	Rem		2.8	23.2	29.6	65.2	65.7
5.6	13.5	I	6	N	2	—		2.8	27.0	29.6	61.4	61.9
4.4	23.4	III	5	K=H	2	—		2.2	46.8	30.2	41.6	42.1
3.6	14.4	I	6	K=H	1	—		1.8	28.8	30.6	59.6	60.1

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Dm.	R.A.	Dec.	Mag.	H	V	H'
4904	22 49.6	+11 4	6.9	71.7	17.8	
4875	22 39.5	+11 26	4.8	71.7	17.8	
4781	22 29.4	+10 58	7.2	71.4	17.8	
4974	22 34.8	+13 46	6.2	71.6	18.0	
4971	22 33.7	+13 47	5.8	71.5	17.8	
4929	22 58.4	+14 10	7.6	72.4	17.7	
4926	22 57.6	+14 26	2.0	72.2	17.8	
4879	22 44.6	+14 20	6.8	71.6	17.8	
4838	22 25.5	+12 18	7.0	71.1	17.7	

4486	21	4.0	+21 52	6.5	29.2	32.3	28.8
4300	21	17.4	+23 40	5.8	30.4	32.2	28.9
4394	21	17.7	+24 43	6.5	30.7	32.2	29.1
4531	21	18.1	+25 34	5.0	30.7	32.2	28.9
4375	20	41.5	+25 39	7.1	87.3	32.2	88.9
4073	21	0.1	+26 21	6.3	29.1	32.4	29.0
4017	20	45.9	+26 33	5.0	87.7	32.4	89.0
4151	21	18.6	+26 47	7.0	31.0	32.2	29.1
4008	20	43.9	+26 50	7.5	87.5	32.2	89.0
3868	20	41.7	+27 4	7.0	87.1	32.3	88.8
4014	21	8.3	+27 34	8.4	29.9	32.4	28.9
3890	20	45.3	+27 42	6.1	87.5	32.3	89.0
3909	20	48.2	+27 58	7.0	87.8	32.4	89.0
4342	21	5.6	+29 7	6.8	29.8	32.3	29.0
4348	21	6.8	+29 38	3.0	30.0	32.4	29.1
4324	21	2.5	+29 37	6.1	29.5	32.4	29.0
4167	20	39.7	+30 11	4.3	86.5	32.4	88.8
4318	21	0.4	+30 36	5.6	29.2	32.4	29.0

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Plate 76 9.

V	H	Type	No. Lines	K	Focus	After Lines.	V	H	V	H
18.5	14.1	I	3	N	1	—	9.2	28.2	3.9	22.4
18.6	15.8	I	2	N	1	—	9.3	31.6	3.8	19.0
18.0	15.1	III	2	N	1	—	9.0	30.2	4.1	20.4
16.0	18.8	I	5	N	2	—	8.0	37.6	5.1	13.0
15.0	23.9	I	6	N	3	—	7.5	47.8	5.6	2.8
11.1	18.5	I	2	N	1	—	5.6	37.0	7.5	13.6
11.5	21.7	I	3	N	1	—	5.8	43.4	7.3	7.2
10.3	20.9	I	4	N	1	—	5.2	41.8	7.9	8.8
6.0	8.3	I	6	N	5	—	3.0	16.6	10.1	34.0
3.3	18.1	I	6	N	2	—	1.6	36.2	11.5	14.4
3.1	5.7	I	3	N	1	—	1.6	11.4	11.5	39.2

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DM.	R.A.	Dec.	Mag.	H	V
4713	22 22.9	+ 3 41	6.3	50.9	12.9
4705	22 19.3	+ 3 39	6.0	50.9	12.9
4710	22 20.4	+ 3 59	4.8	50.6	13.0
4998	22 13.2	+ 5 4	6.1	50.8	13.1
4961	22 2.9	+ 5 29	3.4	50.7	13.0
4853	22 13.7	+ 7 27	7.0	50.7	13.0
4829	22 7.3	+ 7 16	7.5	50.7	13.1
4834	22 8.8	+ 7 50	7.0	50.6	13.0
4797	22 34.3	+ 10 5	3.5	50.9	13.1
4784	22 14.4	+ 11 30	5.5	50.6	13.1
4875	22 39.5	+ 11 24	4.8	50.9	13.0

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Plate 75 [illegible]

g	5	V	H	Type	No. Lines	K	Focus	Other Lines.	V	H	V	H
		23.0	14.7	I	4	N	1	—	11.5	29.4	11.5	41.8
		22.8	17.7	I	4	K=H	1	—	11.4	35.4	11.6	35.8
		22.0	17.9	I	5	N	1	—	11.0	35.8	12.0	35.4
		20.0	16.7	I	6	N	2	—	10.0	33.4	13.0	37.8
		18.9	18.4	I	5	N	2	—	9.4	36.8	13.6	34.4
		17.5	8.6	I	4	N	1	—	8.8	17.2	14.2	54.0
		14.9	15.1	I	3	N	1	—	7.4	30.2	15.6	41.0
		14.6	7.5	I	6	N	3	—	7.3	15.0	15.7	56.2
		13.7	10.0	I	5	N	1	—	6.8	20.0	16.2	51.2
		13.1	10.3	I	6	N	3	—	6.6	20.6	16.4	50.6
		13.5	11.1	III	2	N	1	—	6.8	22.2	16.2	49.0
		13.5	14.5	I	3	N	1	—	6.8	29.0	16.2	42.2
		13.0	13.5	I	3	N	1	—	6.5	27.0	16.5	44.2
		13.0	16.5	I	2	N	1	—	6.5	33.0	16.5	38.2
		13.7	20.1	III	2	N	2	—	6.8	40.2	16.2	31.0
		13.9	21.5	I	3	N	1	—	7.0	43.0	16.0	28.2
		13.0	23.4	I	4	N	1	—	6.5	46.8	16.5	24.4
		12.1	19.6	I	4	N	1	—	6.0	39.2	17.0	32.0
		11.8	18.3	III	5	K=H	III	bright line seen	5.9	36.6	17.1	34.6
		12.1	13.7	I	4	N	1	—	6.0	27.4	17.0	43.8
		12.0	11.7	I	2	N	1	—	6.0	23.4	17.0	47.8
		12.3	10.3	I	3	N	1	—	6.2	20.6	16.8	50.6
		11.6	9.2	III	2	N	1	—	5.8	18.4	17.2	52.8
		12.5	7.2	II ?	2	K=H	2	—	6.2	14.4	16.8	56.8
		12.5	7.3	I	4	N	1	—	6.2	14.6	16.8	56.6
		10.8	14.0	I	3	N	1	—	5.4	28.0	17.6	43.2
		10.6	18.7	III	6	N	4	—	5.3	37.4	17.7	33.8
		10.1	7.7	I	3	N	1	—	5.0	15.4	18.0	55.8

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1966phae.proj..631F

DM.	R.A.	Dec.	Mag.	H	V
3990	19 41.9	+ 11 28	5.8	71.3	23.0
3955	19 35.7	+ 11 29	5.7	71.1	22.9
3954	19 35.4	+ 11 52	6.9	71.2	22.9
4059	19 37.8	+ 12 58	6.0	71.2	23.0
4098	19 34.4	+ 13 29	5.8	71.2	22.9
4033	19 54.5	+ 14 26	6.7	71.7	23.2
3944	19 41.1	+ 15 33	7.5	71.3	23.0
4033	19 56.9	+ 15 38	5.0	71.9	22.9
4086	19 57.7	+ 16 6	7.0	71.7	22.9
4081	19 51.2	+ 16 25	5.8	71.8	23.0
4067	19 49.4	+ 16 15	5.2	71.6	23.0
4013	19 42.4	+ 16 16	7.7	71.4	23.1
4029	19 44.4	+ 16 30	7.3	71.4	23.0
3986	19 38.2	+ 16 28	8.2	71.2	23.0
3918	19 30.7	+ 16 9	5.2	70.9	23.0
3866	19 27.7	+ 15 57	7.0	70.7	23.0
3873	19 23.8	+ 16 25	6.7	70.6	22.9
3925	19 31.6	+ 16 56	6.9	70.8	23.0
4048	19 34.5	+ 17 10	4.2	71.1	23.1
4036	19 44.0	+ 16 55	7.7	71.4	22.9
4059	19 48.2	+ 16 58	8.3	71.6	23.0
4080	19 51.2	+ 16 46	8.2	71.8	23.0
4183	19 53.5	+ 17 7	5.8	71.9	22.9
4121	19 57.6	+ 16 41	5.5	72.0	22.9
4119	19 57.4	+ 16 44	7.0	72.0	22.9
4115	19 43.7	+ 17 21	7.2	71.7	22.8
4042	19 33.6	+ 17 42	4.3	71.0	23.0
4365	19 56.8	+ 18 7	7.0	72.2	23.1

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Plate 75 No. 11.

V	H	Type	No. lines	K	Focus	Other Lines.	V	H	V	H
9.5	12.8	I	4	N	2	—	4.8	25.6	18.2	45.6
9.4	14.7	I?	2	N	1	—	4.7	29.4	18.3	41.8
9.8	15.2	III	9	K=H	4	—	4.9	30.4	18.1	40.8
9.8	17.6	I	4	N	1	—	4.9	35.2	18.1	36.0
9.5	19.7	I	3	N	1	—	4.8	39.4	18.2	31.8
8.6	14.4	I	8	K=.2H	4	—	4.3	28.8	18.7	42.4
8.4	10.9	I	3	N	1	—	4.2	21.8	18.8	49.4
7.9	9.8	III	7	K=H	3	Bright Lines	4.0	19.6	19.0	51.6
7.3	21.2	I	6	N	3	—	3.6	42.4	19.4	28.8
6.8	13.5	I	2	N	1	—	3.4	27.0	19.6	44.2
6.5	13.6	I	5	K=.2H	1	—	3.2	27.2	19.8	44.0
6.1	12.3	I	4	N	1	—	3.0	24.6	20.0	46.6
6.7	6.8	III	2	N	2	Bright lines.	3.4	13.6	19.6	57.6
4.9	10.6	I	7	K=.2H	1	—	2.4	21.2	20.6	50.0
6.0	23.6	I	5	N	2	—	3.0	47.2	20.0	24.0
4.6	22.3	I	3	N	1	—	2.3	44.6	20.7	26.6
2.6	19.9	I	3	N	1	—	1.3	39.8	21.7	31.4
2.4	8.1	I?	1	N	1	—	1.2	16.2	21.8	55.0

Plate 76 No. 5.

18.1	23.5	I	5	N	2	—	9.0	47.0	19.1	43.4
17.7	18.9	III	4	K=H	2	seen	8.8	37.8	19.3	52.6
16.9	15.8	III	4	K=H	1	—	8.4	31.6	19.7	58.8
16.0	21.3	I	3	N	1	—	8.0	42.6	20.1	47.8
16.2	22.6	I	4	N	1	—	8.1	45.2	20.0	45.2
15.0	13.6	I	3	N	1	—	7.5	27.2	20.6	63.2
14.7	19.6	I	4	N	1	—	7.4	39.2	20.7	51.2
14.4	9.4	I	3	N	1	—	7.2	18.8	20.9	71.6

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1990phae.proj.0317

Dm.	R.A.		Dec.		Mag.	H	V	
4276	19	45.9	+ 18	18	6.6	71.5	23.1	
4248	19	42.0	+ 18	18	7.7	71.4	23.0	
4240	19	40.9	+ 18	10	4.0	71.3	23.1	
4204	19	35.9	+ 18	8	7.0	71.1	23.0	
4168	19	31.5	+ 18	16	7.0	70.9	23.1	
4254	19	42.6	+ 18	47	5.0	71.3	23.1	
4315	19	50.1	+ 18	48	7.7	71.9	23.0	
4229	19	52.3	+ 19	6	3.8	71.9	23.1	
4063	19	28.2	+ 19	28	5.8	70.6	23.1	
4177	19	44.5	+ 19	40	7.5	71.5	23.1	
4175	19	44.4	+ 19	51	7.5	71.6	23.0	
4195	19	47.0	+ 19	58	7.2	71.6	23.0	
4277	19	58.7	+ 19	35	5.5	71.3	23.0	
4351	19	50.7	+ 20	37	6.8	71.9	23.0	
4039	19	23.0	+ 19	59	7.0	70.2	23.0	
4175	19	25.8	+ 20	38	7.0	70.4	22.9	
3849	19	30.9	+ 21	40	6.8	70.7	23.0	
4027	19	56.1	+ 21	45	6.5	72.3	23.0	Look up on plate

19 42 + 18 8	4256	19	42.5	+ 18	47	5.0	89.5	27.8
19 52 + 19 2	4229	19	52.3	+ 19	6	3.8	90.1	27.9
19 58 + 19 6	4277	19	58.7	+ 19	35	5.5	90.3	28.0
19 47 + 19 9	4195	19	47.0	+ 19	58	7.2	89.6	28.0
19 44 + 19 8	4175	19	44.4	+ 19	51	7.5	89.6	27.9
20 3 + 20 [illegible]	4453	20	3.5	+ 20	29	6.4	28.7	28.0
19 50 + 20 6	4351	19	50.7	+ 20	37	6.8	89.9	28.0
20 12 + 20 7	4147	20	12.2	+ 21	4	7.2	31.0	28.3

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October 6, 1886.

Plate 76 X.

V	H	Type	No. Lines	K	Focus	other Lines		V	H	V	H
14.0	10.5	I	3	N	1	—		7.0	21.0	21.1	69.4
13.1	12.9	I	4	N	2	—		6.6	25.8	21.5	64.6
12.3	8.5	I	4	N	1	—		6.2	17.0	21.9	73.4
12.5	17.0	I	3	N	1	—		6.2	34.0	21.9	56.4
11.4	15.4	I	3	N	1	—		5.7	30.8	22.4	59.6
11.5	22.2	I	7	N	3	—		5.8	44.4	22.3	46.0
10.5	15.8	I	3	N	1	—		5.2	31.6	22.9	58.8
10.7	18.5	I	5	K=H	2	—		5.4	37.0	22.7	53.4
10.0	10.9	III	4	K=H	1	—		5.0	21.8	23.1	68.6
9.8	14.9	I	11	N	3	—		4.9	29.8	23.2	60.6
9.1	19.5	I	2	N	1	—		4.6	39.0	23.5	51.4
8.5	11.8	I	3	N	1	—		4.2	23.6	23.9	66.8
8.7	21.0	I	7	N	4	—		4.4	42.0	23.7	48.4
8.2	20.5	I	6	N	4	—		4.1	41.0	24.0	49.4
8.0	7.9	I	6	N	2	—		4.0	15.8	24.1	74.6
7.6	10.3	III	3	K=H	1	—		3.8	20.6	24.3	69.8
7.4	17.2	I	6	N	2	—		3.7	34.4	24.4	56.0
7.0	17.0	I	6	N	2	—		3.5	34.0	24.6	56.4
6.7	21.6	I	3	N	1	—		3.4	43.2	24.9	47.2
5.9	11.0	I	10	N	4	—		3.0	22.0	25.1	68.4
5.6	9.7	I	2	N	1	—		2.8	19.4	25.3	71.0
4.0	12.5	I	5	N	2	—		2.0	25.0	26.1	65.4
4.0	18.9	I	2	N	1	—		2.0	37.8	26.1	52.6
3.6	20.6	I	3	N	1	—		1.8	41.2	26.3	49.2
3.1	13.1	I	6	K=.2H	2	—		1.6	26.2	26.5	64.2

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	DM.	R.A.	Dec.	Mag.	H	V
20 10 + 21.2	4130	20 10.0	+ 21 10	6.0	31.0	28.2
20 5 + 21.4	4088	20 5.0	+ 21 27	6.0	30.8	28.0
20 14 + 21.8	4164	20 14.4	+ 21 50	7.0	31.4	28.0
19 56 + 21.7	4027	19 56.1	+ 21 45	6.5	90.1	28.0
19 59 + 22.4	3918	19 59.5	+ 22 23	7.5	90.3	28.1
19 45 + 22.2	3833	19 44.8	+ 22 14	5.7	89.2	28.0
	3908	19 57.8	+ 22 58	7.0	89.4	28.2
~~19 57 + 22.9~~	~~3913~~	~~19 58.9~~	~~+ 22 48~~	~~7.3~~	~~90.3~~	~~28.0~~
19 53 + 22.7	3872	19 52.9	+ 22 42	5.9	89.9	28.1
20 9 + 23.1	3944	20 9.3	+ 23 4	55	31.1	28.1
20 0 + 23.2	3896	20 0.7	+ 23 12	5.2	30.5	28.1
19 50 + 23.5	3845	19 50.6	+ 23 23	7.0	89.6	28.0
20 7 + 23.8	3935	20 7.4	+ 23 48	7.0	31.0	28.0
19 47 + 23.7	3820	19 47.3	+ 23 42	4.6	89.3	28.1
19 48 + 23.9	3829	19 48.4	+ 23 56	5.9	89.4	28.0
20 15 + 23.9	3986	20 15.8	+ 23 60	6.1	31.6	28.0
20 10 + 24.3	4075	20 10.6	+ 24 13	6.0	31.2	28.0
19 55 + 24.4	3975	19 55.6	+ 24 24	6.2	90.0	28.1
19 55.9 + 24.5	3977	19 55.9	+ 24 32	5.5	89.9	28.0
19 45 + 24.6	3916	19 45.9	+ 24 37	5.7	89.1	28.0
20 9 + 25.2	4165	20 9.1	+ 25 9	5.2	31.1	28.2
20 12 + 25.3	4189	20 12.1	+ 25 12	7.3	31.5	28.0
20. 6 + 25.3	3828	20 5.9	+ 26 3	6.2	30.9	28.0
	4040	19 51.8	+ 25 59	7.9	89.6	28.0
~~19 51 + 26.0~~	~~4041~~	~~19 51.8~~	~~+ 25 54~~	~~7.6~~	~~89.6~~	~~27.9~~
19 47.9 + 26.2	3712	19 47.9	+ 26 13	7.3	89.1	28.0
	3815	20 4.5	+ 26 28	5.7	30.7	28.1
~~20 4 + 26.4~~	~~3825~~	~~20 5.7~~	~~+ 26 23~~	~~5.8~~	~~31.9~~	~~28.0~~

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Plate 75 5/4.

V	H	Type	No. Lines	K	Focus	other Lines	V	H	V	H
17.0	5.9	I	3	K=H	2	—	8.5	11.8	9.6	67.1
17.0	7.9	I	4	N	1	—	8.5	15.8	9.6	63.1
16.8	8.0	I	6	K=H	2	—	8.4	16.0	9.7	62.9
14.1	24.0	I	4	N	1	—	7.0	48.0	12.1	30.9
12.0	15.3	I	7	K=2H	2	—	6.0	30.6	12.1	48.3
9.8	15.3	III	1	N	1	—	4.9	30.6	13.2	48.3
8.0	24.0	I	6	K=H	2	—	4.0	48.0	14.1	30.9
7.0	21.1	I	6	K=H	2	—	3.5	42.2	14.6	36.7
5.4	23.0	I	7	N	3	—	2.7	46.0	15.4	32.9
5.0	19.6	III	3	K=H	2	—	2.5	39.2	15.6	39.7
5.6	23.3	I	4	N	1	—	2.8	46.6	15.3	32.3

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DM.	R.A.	Dec.	Mag.	H	V
4746	21 7.4	+ 9 25	4.7	19.2	17.9
4735	21 3.5	+ 9 28	6.2	19.3	18.0
4732	21 3.3	+ 9 33	4.0	19.3	18.0
4339	20 30.9	+ 10 53	5.0	78.9	17.9
4501	20 48.7	+ 12 2	5.7	79.3	18.0
4572	20 48.7	+ 13 11	5.6	79.3	18.1
4369	20 30.7	+ 14 5	3.5	78.7	18.1
4403	20 36.7	+ 14 35	4.2	78.9	18.1
4222	20 32.9	+ 15 26	3.5	78.9	18.1
4255	20 39.9	+ 15 36	3.5	79.1	18.1
4220	20 32.4	+ 15 21	6.0	79.0	18.2

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October 11-1886.

Plate 76 1

V	H	Type	No. Lines	K	Focus	other Lines.	V	H	V	H
20.5	14.6	I	3	N	1	—	10.2	29.2	17.8	43.3
15.5	23.8	I	4	N	1	—	7.8	47.6	20.2	24.9
14.6	22.2	I	3	N	1	—	7.3	44.4	20.7	28.1
14.5	20.2	I	4	N	4	—	7.2	40.4	20.8	32.1
14.0	17.6	I	2	N	1	—	7.0	35.2	21.0	37.3
13.2	19.8	I	5	N	2	—	6.6	39.6	21.4	32.9
12.5	10.9	III	1	N	1	—	6.2	21.8	21.8	50.7
13.0	19.1	I	2	N	1	—	6.5	38.2	21.5	34.3
11.0	15.4	I	3	N	1	—	5.5	30.8	22.5	41.7
11.0	16.7	I	2	N	1	—	5.5	33.4	22.5	39.1
10.2	9.0	I ?	1	N	1	—	5.1	18.0	22.9	54.5
9.3	14.6	I	4	N	2	—	4.6	35.2	23.4	37.3
8.6	18.5	I	4	N	1	—	4.3	37.0	23.7	35.5
8.8	20.0	I	4	N	4	—	4.4	40.0	23.6	32.5
6.5	17.0	III	3	K=H	1	—	3.2	34.0	24.8	38.5
5.0	20.9	I	4	N	1	—	2.5	41.8	25.5	30.7
4.9	18.9	I	3	N	1	—	2.4	37.8	25.6	34.7
5.0	22.8	I	3	N	1	—	2.5	45.6	25.5	26.9
4.0	20.5	I	6	N	2	—	2.0	41.0	26.0	31.5
3.0	13.7	III	3	K=H	2	—	1.5	27.4	26.5	45.1
4.6	15.6	I	3	N	1	—	2.3	31.2	25.7	41.3

Plate 76 2

22.6	10.7	I	4	N	2	—	11.3	21.4	11.5	49.9
22.4	23.4	I	3	N	1	—	11.2	46.8	11.6	24.5
21.3	12.0	I	4	N	1	—	10.6	24.0	12.2	47.3
20.5	8.7	I	4	K=H ?	2	—	10.2	17.4	12.6	53.9
19.5	15.7	I	3	N	1	—	9.8	31.4	13.0	39.9

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DM.	R.A.	Dec.	Mag.	H	V
4431	20 43.9	+ 17 30	6.5	73.1	27.7
4602	20 24.5	+ 20 7	6.1	72.1	27.9
4629	20 27.7	+ 20 29	6.2	72.1	27.8
4658	20 32.0	+ 20 42	4.7	72.4	27.9
4699	20 37.5	+ 20 54	6.9	72.7	27.9
4305	20 32.7	+ 21 19	6.0	72.3	27.9
4424	20 51.8	+ 21 46	5.1	73.6	28.0
4318	20 34.2	+ 21 25	7.2	72.4	27.9
4199	20 42.1	+ 22 29	7.7	72.9	28.0
4176	20 39.3	+ 22 29	8.0	72.7	28.0
4278	20 55.9	+ 22 46	7.3	73.9	27.9
4124	20 37.4	+ 23 16	7.5	72.6	27.9
4107	20 35.4	+ 23 40	7.3	72.4	28.0
4084	20 32.2	+ 23 37	5.3	72.2	28.0
4229	20 38.6	+ 24 45	5.7	72.6	28.0
4299	20 29.9	+ 25 23	7.2	71.7	27.9
4329	20 34.5	+ 25 34	7.0	72.3	28.0
4272	20 25.8	+ 25 19	6.0	71.4	27.8
4302	20 30.9	+ 25 58	6.0	71.9	28.0
4017	20 45.9	+ 26 33	5.0	73.3	28.1
4375	20 41.5	+ 26 39	7.1	72.7	27.9
4696	21 49.9	+ 11 25	6.0	71.3	22.7
4583	21 24.1	+ 11 31	6.0	70.9	22.7
4711	21 47.4	+ 12 4	6.8	71.4	22.7
4737	21 54.0	+ 12 26	6.0	71.4	22.6
4781	21 39.8	+ 13 3	7.0	71.2	22.8

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Plate 76 K²

V	H	Type	No. Lines	K	Focus	Other Lines		V	H	V	H
15.0	8.0	I	4	N	1	—		7.5	16.0	15.3	55.3
12.5	14.0	I	6	K=H	3	—		6.2	28.0	16.6	43.3
12.7	15.5	I	5	K=.8H	2	—		6.4	31.0	16.4	40.3
12.5	16.7	III	9	K=H	3	rem.		6.2	33.4	16.6	37.9
8.0	5.7	I	3	N.	1	—		4.0	11.4	18.8	59.9
8.5	13.2	I	2	N	1	—		4.2	26.4	18.6	44.9
8.3	14.0	I	4	N	1	—		4.2	28.0	18.6	43.3
7.9	12.3	I	5	N	4	—		4.0	24.6	18.8	46.7
7.5	13.3	I	6	N	4	—		3.8	26.6	19.0	44.7
8.5	19.8	I	6	K=H	3	—		4.2	39.6	18.6	31.7
6.5	10.4	I	4	N	1	—		3.2	20.8	19.6	50.5
6.2	14.2	I	5	N	2	—		3.1	28.4	19.7	42.9
6.5	19.2	I	5	N	2	—		3.2	38.4	19.6	32.9
3.5	5.6	I	4	N	2	—		1.8	11.2	21.0	60.1

Plate 75 K²

21.5	10.2	I	3	N	1	—		10.8	20.4	12.1	48.5
20.7	20.9	I	5	N	1	—		10.4	41.8	12.5	27.1
17.8	19.1	I	6	K=H	5	—		8.9	38.2	14.0	30.7
17.5	20.1	I	5	N	4	—		8.8	40.2	14.1	28.7
16.8	16.2	I	8	K=.8H	3	—		8.4	32.4	14.5	36.5
15.0	18.0	I	9	N	5	—		7.5	36.0	15.4	32.9
15.0	18.3	I	4	N	1	—		7.5	36.6	15.4	32.3
14.7	14.6	I.?	4	K=H	4	—		7.4	29.2	15.5	39.7
11.8	17.3	I	3	N	1	—		5.9	34.6	17.0	34.3
10.9	12.6	I	3	N	1	—		5.4	25.2	17.5	43.7
5.6	21.8	I	3	N	1	—		2.8	43.6	20.1	25.3
4.6	18.3	I	5	N	3	—		2.3	36.6	20.6	32.3
3.2	14.8	I	5	N	1	—		1.6	35.6	21.3	33.3

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DM.	R.A.	Dec.	Mag.	H	V
4548	21 55.7	+ 15 18	6.8	71.7	22.8
4612	21 43.3	+ 16 38	5.5	71.3	22.8
4598	21 40.2	+ 16 32	6.0	71.2	22.9
4582	21 37.7	+ 16 42	4.0	71.1	22.9
4930	22 0.6	+ 18 46	6.1	72.0	22.8
4874	21 44.9	+ 18 38	7.2	71.3	22.8
4871	21 43.3	+ 18 46	7.5	71.3	23.0
4879	21 46.8	+ ~~18 60~~ 19 0	5.8	71.4	23.0
4797	21 44.8	+ 19 9	5.5	71.4	23.0
4827	21 31.0	+ 18 41	5.8	70.6	22.9
4833	21 50.9	+ 19 37	6.8	71.7	22.8
4793	21 42.7	+ 19 48	6.5	71.1	22.9
4754	21 32.3	+ 19 38	6.0	70.7	22.8
4695	22 1.0	+ 21 0	5.8	72.2	22.8
⋮					
4501	20 48.7	+ 12 2	5.7	69.1	22.8
4378	20 27.1	+ 12 33	6.0	68.8	23.0
4369	20 30.7	+ 14 5	3.5	68.9	23.0
4353	20 28.5	+ 14 12	4.5	68.7	23.0
4403	20 36.7	+ 14 35	4.2	69.1	23.0
4222	20 32.9	+ 15 26	3.5	68.9	22.9
4220	20 32.4	+ 15 21	6.0	69.0	22.9
4255	20 39.9	+ 15 36	3.5	69.1	23.0
4378	20 34.3	+ 17 4	6.8	68.9	23.0
4431	20 43.9	+ 17 30	6.5	69.1	22.9
4602	20 24.5	+ 20 7	6.1	68.1	22.9
4658	20 32.0	+ 20 42	4.7	68.6	23.0
4305	20 32.7	+ 21 19	6.0	68.3	22.9

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V	H	Type	No. Lines	K	Focus	Other Lines.	V	H	V	H
16.8	16.0	I	9	N	5	—	8.4	32.0	14.4	~~57.6~~

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22.9	13.3	I	5	N	2	—	11.4	26.6	26.7	~~40.8~~	63.7
21.1	10.7	I	4	N	1	—	10.6	21.4	27.5	~~48.0~~	68.9
21.1	11.0	III	5	K=H	1	—	10.6	22.0	27.5	~~67.4~~	68.3
21.3	17.5	I	7	K=.2H	4	—	10.6	35.0	27.5	~~54.4~~	55.3
19.6	10.6	I	2	N	1	—	9.8	21.2	28.3	~~68.2~~	69.1
19.5	11.7	I	7	K=.5H	4	—	9.8	23.4	28.3	~~66.0~~	66.9
19.8	16.7	I	5	N	1	—	9.9	33.4	28.2	~~56.0~~	56.9
19.7	22.4	I	4	N	1	—	9.8	44.8	28.3	~~44.6~~	45.5
18.7	21.0	I	3	N	1	—	9.4	42.0	28.7	~~47.4~~	48.3
17.4	9.2	I	5	N	2	—	8.7	18.4	29.4	~~71.0~~	71.9
17.0	16.3	III	3	K=H	2	—	8.5	32.6	29.6	~~56.8~~	57.7
17.0	17.7	I?	2	N	1	—	8.5	35.4	29.6	~~54.0~~	54.9
16.4	19.9	I	5	N	2	—	8.2	39.8	29.9	~~49.6~~	50.5
15.4	13.1	I	5	N	2	—	7.7	26.2	30.4	~~63.2~~	64.1
15.3	19.0	I	7	K=.5H	2	—	7.6	38.0	30.5	~~54.4~~	52.3
15.0	18.4	I	7	N	5	—	7.5	36.8	30.6	~~52.6~~	53.5
15.0	17.9	I	3	N	1	—	7.5	35.8	30.6	~~53.6~~	54.5
14.4	17.3	I	5	N	2	—	7.2	34.6	30.9	~~51.8~~	55.1
14.6	16.9	I	5	N	2	—	7.3	33.8	30.8	~~55.6~~	56.5
14.3	15.9	I	4	N	1	—	7.2	31.8	30.9	~~57.6~~	58.5
13.9	10.5	I	4	N	2	—	7.0	21.0	31.1	~~68.4~~	69.3
15.0	21.9	I	4	N	1	—	7.5	43.8	30.6	~~45.6~~	45.6
14.4	21.3	I	4	N	1	—	7.2	42.6	30.9	~~46.8~~	47.7
13.5	22.9	I	4	N	1	—	6.8	45.8	31.3	~~43.6~~	44.5
13.5	21.2	I	4	N	1	—	6.8	42.4	31.3	~~47.0~~	47.9

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DM.	R.A.		Dec.		Mag.	H	V	H'
4926	22	57.6	+ 14	26	2.0	89.6	22.8	
3815	20	4.5	+ 26	28	5.7	31.1	37.9	30.6
3668	20	10.4	+ 27	21	7.1	31.8	38.0	30.8
3666	20	9.8	+ 27	22	4.8	31.8	38.0	30.9
3587	19	55.1	+ 27	21	5.0	90.1	38.0	90.7
3684	20	10.7	+ 28	5	7.7	31.9	37.9	30.9
3675	20	8.3	+ 28	15	6.0	31.7	38.0	30.9
~~3585~~	~~19~~	~~56.0~~	~~+ 28~~	~~9~~	~~8.5~~	~~89.4~~	~~38.1~~	
3595	19	56.8	+ 28	7	7.1	90.2	38.0	90.7
3493	19	44.1	+ 28	5	6.8	88.9	37.9	90.6
3513	19	47.0	+ 28	37	7.3	89.0	38.0	90.5
3992	20	13.9	+ 29	16	6.8	32.3	38.1	30.8
3872	19	57.7	+ 29	31	6.0	90.3	38.0	90.7
3838	19	54.4	+ 29	31	7.0	89.8	38.0	90.6
3802	19	49.3	+ 29	49	6.9	89.1	38.0	90.4
3929	20	5.1	+ 30	21	6.8	31.3	38.1	30.8
3820	19	51.4	+ 30	23	7.2	89.4	38.0	90.5
3837	19	52.9	+ 30	35	5.8	89.7	38.1	90.6
3845	19	53.9	+ 30	31	8.0	89.7	38.0	90.5
3853	19	55.2	+ 30	50	6.9	89.8	38.0	90.5
3862	19	56.2	+ 30	43	7.0	90.0	38.0	90.6
3875	19	58.4	+ 30	50	7.4	90.2	38.0	90.5
4020	20	11.1	+ 31	4	6.5	32.1	38.1	30.8
3756	19	43.0	+ 30	28	7.8	86.8	38.0	88.6
~~3769~~	~~19~~	~~48.4~~	~~+ 30~~	~~24~~	~~8.1~~	~~88.5~~	~~37.9~~	~~90.4~~
3779	19	46.0	+ 30	46	6.8	88.6	38.0	90.3
3779	19	42.3	+ 31	9	6.5	88.1	38.0	90.4
3814	19	46.3	+ 31	20	7.5	88.7	38.1	90.5

Looks up on plate.

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Plate 76 $\frac{4}{8}$

V	H	Type	Pro. Lines	K	Focus	Other Lines	V	H	V	H	H
13.2	17.9	I	5	N	2	—	6.6	35.8	31.5	~~53.6~~	54.5
13.0	15.9	I	4	N	1	—	6.5	31.8	31.6	~~57.6~~	58.5
13.0	16.5	I	2	N	1	—	6.5	33.0	31.6	~~56.4~~	57.3
12.4	13.0	I	4	N	1	—	6.2	26.0	31.9	~~63.4~~	64.3
12.6	9.9	I	2	N	1	—	6.3	19.8	31.8	~~69.6~~	70.5
12.8	9.0	I	2	N	1	—	6.4	18.0	31.9	~~71.4~~	72.3
12.5	4.6	III	3	N	2	—	6.2	15.2	31.9	~~74.2~~	75.1
12.1	10.5	?	1	N	1	—	6.0	21.0	32.1	~~68.4~~	69.3
12.5	15.7	I	4	N	2	—	6.2	31.4	31.9	~~58.0~~	58.9
11.2	11.4	I	4	N	1	—	5.6	22.8	32.5	~~66.6~~	67.5
11.4	17.6	I	5	N	1	—	5.7	35.2	32.4	~~54.2~~	55.1
11.1	17.8	I	5	N	1	—	5.6	35.6	32.5	~~53.8~~	54.7
10.6	16.9	I	4	N	1	—	5.3	33.8	32.8	~~55.6~~	56.5
10.7	19.2	I	4	N	1	—	5.4	38.4	32.7	~~51.0~~	51.9
9.9	19.2	I	4	N	1	—	5.0	38.4	33.1	~~51.0~~	51.9
9.8	22.3	I	3	N	1	—	4.9	44.6	33.2	~~44.8~~	45.7
9.1	23.2	I	6	N	3	—	4.6	46.4	33.5	~~43.0~~	43.9
10.6	13.8	I	3	N	1	—	5.3	27.6	32.8	~~61.8~~	62.7
10.1	13.6	I	3	N	1	—	5.0	27.2	33.1	~~62.2~~	63.1
9.8	13.2	I	4	N	1	—	4.9	26.4	33.2	~~63.0~~	63.9
9.3	13.2	I	3	N	1	—	4.6	26.4	33.5	~~63.0~~	63.9
9.5	11.2	III	6	K=H	2	—	4.8	22.4	33.3	~~67.0~~	67.9
10.5	10.1	I	4	N	1	—	5.2	20.2	32.9	~~69.2~~	70.1
9.0	5.9	I	3	N	1	—	4.5	11.8	33.6	~~77.6~~	78.5
8.0	12.6	I	4	N	1	—	4.0	25.2	34.1	~~64.2~~	65.1
8.2	14.4	I	6	N	3	—	4.1	28.8	34.0	~~60.6~~	61.5
8.0	5.3	I	2	N	1	—	4.0	10.6	34.1	~~78.8~~	79.7
8.0	18.3	I	4	N	1	—	4.0	36.6	34.1	~~52.8~~	53.7

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DM.	R.A.	Dec.	Mag.	H	V	H'	
3878	19 54.0	+ 31 26	6.9	89.8	38.0	90.6	
3923	19 58.6	+ 31 32	8.1	90.4	38.0	90.7	
3905	19 57.1	+ 31 33	6.7	90.1	38.1	90.6	
3980	20 5.4	+ 31 52	7.5	30.4	38.1	29.5	
4029	20 12.6	+ 31 40	7.0	31.4	38.0	29.9	
4042	20 14.7	+ 31 34	7.2	32.7	38.0	31.0	
4062	20 18.1	+ 31 43	6.0	33.3	37.9	31.0	
4018	20 11.1	+ 31 56	7.2	32.1	37.9	30.7	
3925	19 58.9	+ 31 49	6.0	90.3	38.0	90.5	
3957	20 9.2	+ 32 25	6.8	32.0	38.0	30.8	
3662	19 54.5	+ 32 24	7.0	89.7	38.1	90.5	
3658	19 54.0	+ 32 30	7.6	89.6	38.1	90.5	
3679	19 56.1	+ 32 40	8.2	89.9	38.0	90.5	
3634	19 50.5	+ 32 41	7.4	88.9	38.1	90.3	
3656	19 50.6	+ 33 7	7.7	89.0	38.1	90.5	
3602	19 43.3	+ 33 5	6.9	87.9	38.0	90.4	
3587	19 40.9	+ 33 24	5.4	87.1	38.0	90.0	
3720	20 3.4	+ 32 46	7.7	31.0	38.1	29.8	
3766	20 3.9	+ 33 15	7.3	31.1	38.2	30.6	
3778	20 5.0	+ 33 12	8.5	31.4	38.1	30.8	
3780	20 5.0	+ 33 12	8.5	31.4	38.1	30.8	Look up on plate.
3781	20 5.0	+ 33 26	8.1	31.4	38.0	30.8	
3827	20 9.8	+ 33 18	6.2	32.2	38.1	30.9	
3773	20 12.3	+ 32 45	8.0	32.5	38.0	30.0	
3910	20 21.5	+ 33 51	6.7	33.3	38.3	30.0	
3908	20 6.5	+ 34 3	7.4	31.7	38.0	30.9	
3881	20 2.1	+ 34 0	6.0	30.9	38.1	30.6	
3937	20 25.9	+ 33 51	7.0	36.6	37.8	33.2	Look up on plate.
~~3817~~	~~20 6.0~~	~~+ 34 7~~	~~8.2~~	~~87.6~~	~~38.1~~		
3813	20 5.2.7	+ 34 2	8.1	89.3	38.0	90.4	

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Plate 765

V	H	Type	No. Lines	K	Focus	Other Lines		V	H	V	H	H
8.4	18.5	I	2	N	1	—		4.2	37.0	33.9	~~52.4~~	53.3
7.7	20.1	I	4	N	2	—		3.8	40.2	34.3	~~49.2~~	50.1
7.0	8.2	I	4	N	1	—		3.5	16.4	34.6	~~43.0~~	73.9
7.0	9.8	I?	4	If a I type star, K is 1/3 of H	3	—		3.5	19.6	34.6	~~69.8~~	70.7
6.9	19.0	III	8	K=H	4	—		3.4	38.0	34.7	~~57.4~~	52.3
6.4	16.6	I	5	N	1	—		3.2	33.2	34.9	~~56.2~~	57.1
6.0	17.9	I	4	N	1	—		3.0	35.8	35.1	~~53.6~~	54.5
6.1	22.1	I	2	N	1	—		3.0	44.2	35.1	~~45.2~~	46.1
6.0	10.4	I	5	N	1	—		3.0	21.4	35.1	~~68.0~~	68.9
5.6	14.4	I	3	N	1	—		2.8	28.8	35.3	~~60.6~~	61.5
5.6	15.0	I?	2	N	2	—		2.8	30.0	35.3	~~59.4~~	60.3
5.1	14.8	III	8	K=H	2	—		2.6	29.6	35.5	~~59.8~~	60.7
4.4	11.9	I	3	N	1	—		2.2	23.8	35.9	~~65.6~~	66.5
3.8	11.7	I	5	N	2	—		1.9	23.4	36.2	~~66.0~~	66.9
3.5	11.5	I	7	N	4	—		1.8	23.0	36.3	~~66.4~~	67.3
2.9	10.8	I	4	N	1	—		1.4	21.6	36.7	~~67.8~~	68.7
3.0	10.0	I	6	N	2	—		1.5	20.0	36.6	~~69.4~~	70.3
2.7	9.4	I	4	N	1	—		1.4	18.8	36.7	~~70.6~~	71.5
3.5	13.6	I	9	N	4	—		1.8	27.2	36.3	~~63.2~~	63.1
3.5	14.5	I	3	N	1	—		1.8	29.0	36.3	~~60.4~~	61.3
3.8	17.1	I	5	N	2	—		1.9	34.2	36.2	~~55.2~~	56.1
4.3	18.2	I	5	N	1	—		2.2	36.4	35.9	~~53.0~~	53.9
4.5	18.7	I	7	N	3	—		2.2	37.4	35.9	~~52.0~~	52.9
3.0	17.4	I	9	N	4	—		1.5	34.8	36.6	~~54.6~~	55.5
3.0	19.4	II	3	K=H	1	—		1.5	38.8	36.6	~~50.6~~	51.5
4.6	21.3	I	4	N	1	—		2.3	42.6	35.8	~~46.8~~	47.7
4.5	23.2	I	5	N	2	—		2.2	46.4	35.9	~~43.0~~	43.9

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DM.	R.A.	Dec.	Mag.	H	V	H'
3665	19 52.3	+ 33 51	7.9	89.3	38.0	90.5
3778	19 48.3	+ 34 12	6.8	88.5	38.0	90.2
3995	20 16.9	+ 34 32	7.2	33.3	38.0	30.8
3967	20 13.1	+ 34 32	5.4	32.7	38.0	30.9
3798	19 50.9	+ 34 42	4.2	88.9	38.1	90.3
3847	19 56.6	+ 34 56	7.6	89.8	38.1	90.3
3895	19 53.4	+ 35 6	7.4	89.2	38.1	90.2
3727	19 43.3	+ 34 57	7.0	87.5	38.0	90.0
4047	20 11.1	+ 35 1	7.4	32.5	38.0	30.0
3970	20 1.9	+ 35 18	7.7	30.7	38.1	30.5
3952	20 0.5	+ 35 16	7.5	30.5	38.1	30.5
3953	20 0.5	+ 35 23	7.0	30.1	38.0	30.0
4026	20 8.1	+ 35 54	7.0	31.9	38.1	30.7
3949	20 8.6	+ 36 10	7.0	32.0	38.1	30.7
3955	20 9.1	+ 36 22	5.4	32.1	38.2	30.7
3978	20 11.1	+ 36 37	6.6	32.7	38.0	31.1
3998	20 13.0	+ 36 33	6.1	33.0	38.1	31.1
3408	20 14.4	+ 36 40	7.0	33.2	38.1	30.9
3907	20 4.0	+ 36 25	5.5	31.2	38.2	30.7
3880	20 1.7	+ 36 25	7.0	30.7	38.2	30.5
3816	19 55.4	+ 36 12	7.0	89.6	38.1	90.4
3889	19 52.6	+ 35 57	8.1	89.0	38.2	90.2
~~3804~~	~~19 54.8~~	~~+ 36 0~~	~~7.0~~	~~91.2~~	~~38.2~~	~~92.4~~
3878	19 51.4	+ 35 52	6.4	88.8	38.1	90.3
3806	19 54.6	+ 36 39	5.8	89.4	38.1	90.3
3766	19 49.5	+ 36 37	6.0	88.3	38.1	90.0
3826	19 45.0	+ 35 44	7.5	87.6	38.0	90.0
3786	19 40.3	+ 35 45	7.0	86.7	38.0	89.9

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Plate 738

V	H	Type	No. Lines	K	Focus	Other Lines	V	H	V	H	H
22.2	5.7	?	1	N	2	—	11.1	11.4	31.9	~~48.9~~	48.7
21.8	8.6	I	5	N	3	—	10.9	17.2	32.1	~~43.1~~	42.9
22.0	14.5	I	4	N	1	—	11.0	29.0	32.0	~~41.3~~	41.1
21.3	21.0	?	1	N	3	—	10.6	42.0	32.4	~~48.3~~	48.1
20.1	9.1	I	5	N	3	—	10.0	18.2	33.0	~~48.1~~	47.9
20.5	14.2	I	3	N	2	—	10.2	28.4	32.8	~~41.9~~	41.7
20.3	15.3	I	4	N	2	—	10.2	30.6	32.8	~~59.7~~	59.5
20.0	13.9	I	4	N	2	—	10.0	27.8	33.0	~~62.5~~	62.3
19.7	16.0	I	3	N	1	—	9.8	32.0	33.2	~~58.3~~	58.1
20.3	20.1	III	1	N	2	—	10.2	40.2	32.8	~~50.1~~	49.9
18.6	11.6	I	4	N	3	—	9.3	23.2	33.7	~~67.1~~	66.9
19.0	14.7	I	4	N	2	—	9.5	29.4	33.5	~~60.9~~	60.7
18.7	17.3	I	3	N	1	—	9.4	34.6	33.6	~~55.7~~	55.5
18.4	17.1	I	4	N	1	—	9.2	34.2	33.8	~~56.1~~	55.9
19.0	21.3.3	I ?	3	N	5	—	9.5	46.6	33.5	~~43.7~~	43.5
18.2	22.8	III	5	K=H	3	—	9.1	45.6	33.9	~~44.9~~	44.5
17.5	20.3	I	4	N	1	—	8.8	40.6	34.2	~~49.7~~	49.5
17.5	21.2	?	2	N	1	—	8.8	42.4	34.2	~~47.9~~	47.7
17.5	10.1	I	8	N	5	—	8.8	20.2	34.2	~~70.1~~	69.9
17.7	11.6	I	3	N	1	—	8.8	23.2	34.2	~~67.1~~	66.9
17.5	11.0	I	2	N	1	—	8.8	22.0	34.2	~~68.3~~	68.1
17.5	13.3	I	2	N	1	—	8.8	26.6	34.2	~~63.7~~	63.5
17.0	13.7	I	3	N	1	—	8.5	27.4	34.5	~~62.9~~	62.7
17.4	14.7	I	3	N	1	—	8.7	29.4	34.3	~~60.9~~	60.7
17.5	15.3	I	5	N	2	—	8.8	30.6	34.2	~~59.7~~	59.5
16.1	6.1	I	4	N	2	—	8.0	12.2	35.0	~~78.1~~	77.9
16.3	12.0	I	4	N	2	—	8.2	24.0	34.8	~~66.3~~	66.1
16.5	14.1	I	4	N	1	—	8.2	28.2	34.8	~~62.1~~	61.9

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Dm.	R. A.	Dec.	Mag.	H	V	H'
4402	21 22.0	+ 31 35	5.8	33.4	42.7	30.6
4134	21 15.2	+ 32 0	6.0	32.4	42.9	30.5
4340	21 1.3	+ 31 55	7.5	30.3	42.9	30.1
3974	20 46.1	+ 32 18	6.7	88.1	42.9	89.9
4128	21 14.3	+ 32 53	6.7	32.5	42.9	30.7
4060	21 2.0	+ 32 49	7.5	30.4	43.0	30.1
4046	20 59.4	+ 32 55	8.0	90.0	43.1	90.1
4176	21 2.8	+ 33 2	7.2	30.6	43.0	30.2
4135	20 57.7	+ 33 9	8.0	89.7	43.0	90.1
3980	20 48.0	+ 32 53	6.0	88.2	43.1	89.8
4203	21 8.4	+ 33 42	7.0	31.6	43.0	30.4
4162	21 0.9	+ 33 33	7.5	30.3	43.1	30.2
4116	20 54.6	+ 33 36	8.2	89.2	43.0	89.9
4120	20 55.2	+ 33 51	8.5	89.4	43.0	90.1
4018	20 40.4	+ 33 25	2.6	87.0	42.9	89.8
4028	20 41.4	+ 33 51	6.0	87.0	42.9	89.7
4196	20 47.3	+ 34 12	7.8	87.9	43.0	89.7
4180	20 45.2	+ 34 13	6.8	87.6	43.0	89.9
4371	21 12.0	+ 34 17	4.2	32.2	43.1	30.5
4347	21 8.4	+ 34 10	7.8	31.6	43.0	30.4
~~4358~~	~~21 9.8~~	~~+ 34 17~~	~~8.3~~	~~31.8~~	~~43.1~~	
4361	21 10.2	+ 34 2	7.9	32.2	42.8	30.8
4314	21 4.4	+ 34 17	8.3	31.0	43.1	30.4
4303	21 3.3	+ 34 27	7.7	30.9	42.9	30.2
4285	21 0.9	+ 34 20	8.3	30.3	43.0	30.2
4274	20 59.6	+ 34 14	7.9	90.2	43.0	90.3
4422	21 21.9	+ 34 47	6.8	34.0	42.8	30.6
4336	21 7.4	+ 34 53	7.4	31.4	43.1	30.4
4294	21 2.4	+ 34 45	8.2	30.6	43.0	30.2

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Plate 739.

V	H	Type	Lines	K	Focus	other Lines.		V	H	V	H	H
16.5	15.4	I	4	K=H	2	—		8.2	30.8	34.8	~~57.5~~	59.3
16.5	16.4	I	2	N	1	—		8.2	32.8	34.8	~~57.5~~	57.3
16.1	17.7	I	3	N	1	—		8.0	35.4	35.0	~~54.9~~	54.7
16.5	18.6	III	1	N	1	—		8.2	37.2	34.8	~~53.1~~	52.9
16.5	20.0	I	4	N	2	—		8.2	40.0	34.8	~~50.3~~	50.1
16.5	20.3	I	2	N	1	—		8.2	40.6	34.8	~~49.7~~	49.5
15.5	8.7	I	3	N	1	—		7.8	17.4	35.2	~~72.9~~	72.7
15.7	10.5	I	5	N	2	—		7.8	21.0	35.2	~~69.3~~	69.1
15.7	12.2	I	5	N	3	—		7.8	24.4	35.2	~~65.9~~	65.7
15.1	16.9	III	3	K=H	3	—		7.6	33.8	35.4	~~56.5~~	56.3
15.1	21.1	I	4	N	1	—		7.6	42.2	35.4	~~48.1~~	47.9
15.0	22.0	I	2	N	1	—		7.5	44.0	35.5	~~46.3~~	46.1
14.5	10.7	I	4	N	2	—		7.2	21.4	35.8	~~68.9~~	68.7
14.7	13.0	I	5	N	3	—		7.4	26.0	35.6	~~64.3~~	64.1
14.4	14.9	I	2	N	1	—		7.2	29.8	35.8	~~60.5~~	60.3
14.9	15.7	I	3	N	1	—		7.4	31.4	35.6	~~58.9~~	58.7
14.4	17.6	I	5	N	2	—		7.2	35.2	35.8	~~55.1~~	54.9
14.5	18.8	I	5	N	2	—		7.2	37.6	35.8	~~52.7~~	52.7
13.7	8.3	I	3	N	1	—		6.8	16.6	36.2	~~73.7~~	73.5
14.0	9.1	I	4	N	2	—		7.0	18.2	36.0	~~72.1~~	71.9
14.0	9.9	I	3	N	1	—		7.0	19.8	36.0	~~70.5~~	70.3
14.0	12.0	I	6	K=.8 H	3	—		7.0	24.0	36.0	~~66.3~~	66.1
13.9	12.9	I	3	N	1	—		7.0	25.8	36.0	~~64.5~~	64.3
13.6	13.1	I	3	N	2	—		6.8	26.2	36.2	~~64.1~~	63.9
13.4	14.5	I	4	N	2	—		6.7	29.0	36.3	~~61.3~~	61.1
13.6	16.1	I	3	N	1	—		6.8	32.2	36.2	~~58.1~~	57.9
13.3	16.6	I	4	N	2	—		6.6	33.2	36.4	~~57.1~~	56.9
13.0	16.2	?	1	N	1	—		6.5	32.4	36.5	~~57.9~~	57.7

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DM.	R.A.	Dec.	Mag.	H	V	H'
4267	20 59.1	+34 51	7.6	89.9	43.0	90.0
4248	20 56.7	+34 47	8.5	89.5	43.0	90.0
~~4229~~	~~20 53.6~~	~~+34 55~~	~~8.4~~	~~89.0~~	~~42.9~~	~~90.0~~
~~3895~~	~~20 53.4~~	~~+35 6~~	~~7.4~~	~~88.8~~	~~43.1~~	~~89.8~~
4213	20 51.4	+34 45	6.5	88.6	43.0	89.9
4199	20 47.8	+34 41	7.8	87.8	42.9	89.6
4195	20 47.1	+34 48	8.5	87.7	43.0	89.6
4485	21 14.3	+35 26	8.3	31.7	43.2	28.3
4461	21 11.2	+35 10	8.1	32.2	43.0	30.6
4435	21 7.0	+35 12	6.8	31.4	43.0	30.4
4357	20 55.4	+35 28	6.2	89.2	43.1	89.8
4291	20 52.2	+35 23	8.2	87.4	43.0	89.7
~~4302~~	~~20 46.5~~	~~+35 12~~	~~8.4~~	~~88.7~~	~~42.8~~	~~90.0~~
~~4272~~	~~20 42.9~~	~~+35 23~~	~~8.8~~	~~86.9~~	~~42.9~~	~~89.6~~
~~4291~~	~~20 45.2~~	~~+35 23~~	~~8.2~~	~~89.2~~	~~42.9~~	
4457	21 10.8	+35 43	7.0	32.2	42.9	30.7
4426	21 5.2	+35 42	6.5	31.2	43.1	30.5
~~4396~~	~~21 0.3~~	~~+35 50~~	~~7.0~~	~~30.1~~	~~43.0~~	
4402	21 1.1	+35 41	8.2	30.9	42.9	30.8
4384	20 58.5	+35 34	8.6	89.9	43.0	90.2
4344	20 53.7	+35 52	7.7	88.9	43.1	89.9
4332	20 50.7	+35 50	7.6	88.3	43.0	89.8
4534	21 16.6	+36 1	8.4	33.2	42.8	30.6
4520	21 14.4	+36 11	8.0	32.6	43.2	30.3
4473	21 12.8	+~~35~~ 36 ~~50~~ 0	8.0	32.6	43.0	30.6
4470	21 7.6	+36 2	6.5	31.6	43.0	30.5
4449	21 5.4	+36 4	7.6	31.2	43.1	30.4
4446	21 4.7	+36 13	7.5	30.9	43.0	30.2
4416	21 1.4	+36 22	7.8	30.4	43.1	30.2
4382	21 57.4	+36 11	8.0	89.6	43.0	90.0
~~4376~~	~~21 56.3~~	~~+36 24~~	~~7.8~~	~~89.5~~	~~43.0~~	
4375	21 56.2	+36 8	7.5	89.4	42.7	90.0
4379	21 57.1	+36 35	7.5	89.5	43.1	90.0

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Plate 739.

V	H	Type	No. Lines	K	Focus	other Lines		V	H	V	~~H~~	H
13.2	17.9	I	3	N	1	—		6.6	35.8	36.4	~~54.5~~	54.3
13.0	19.5	I	5	N	3	—		6.5	39.0	36.5	~~54.3~~	54.1
13.3	20.3	I	4	N	1	—		6.6	40.6	36.4	~~49.4~~	49.5
13.1	21.5	I	2	N	1	—		6.6	43.0	36.4	~~47.3~~	47.1
14.0	22.5	I	8	N	5	—		7.0	45.0	36.0	~~45.3~~	46.1
12.5	17.0	I	3	N	2	—		6.2	34.0	36.8	~~56.3~~	56.1
12.8	11.2	I	4	N	2	—		6.4	22.4	36.6	~~67.9~~	67.7
12.9	8.4	I	3	N	1	—		6.4	16.8	36.6	~~73.5~~	73.3
13.7	7.0	I ?	3	N	4	—		6.8	14.0	36.2	~~76.3~~	76.1
12.9	6.4	I	6	N	4	—		6.4	12.8	36.6	~~77.5~~	77.3
Recorded above.	~~12.5~~	~~8.4~~	~~I~~	~~3~~	~~N~~	~~1~~	~~—~~	~~6.4~~	~~16.8~~	~~36.6~~	~~73.5~~	
12.5	7.9	III	1	N	1	—		6.2	15.8	36.8	~~74.5~~	74.3
12.5	8.0	I	3	N	2	—		6.2	16.0	36.8	~~74.3~~	74.1
12.6	9.6	I	3	N	1	—		6.3	19.2	36.7	~~71.1~~	70.9
12.5	10.9	I	2	N	1	—		6.2	21.8	36.8	~~68.6~~	68.3
12.0	15.1	I	3	N	1	—		6.0	30.2	37.0	~~60.1~~	59.9
12.0	16.4	II	2	K=H	1	—		6.0	32.8	37.0	~~57.5~~	57.3
11.6	18.5	I	3	N	1	—		5.8	37.0	37.2	~~53.8~~	53.1
12.0	20.4	I	3	N	1	—		6.0	40.8	37.0	~~49.5~~	49.3
11.8	11.7	I	5	N	2	—		5.9	23.4	37.1	~~66.9~~	66.7
11.3	11.5	I	9	K=H	5	Recie		5.6	23.0	37.4	~~67.3~~	67.1
11.5	13.1	I	3	N	1	—		5.8	26.2	37.2	~~64.1~~	63.9
11.0	12.7	I	4	N	1	—		5.5	25.4	37.5	~~64.9~~	64.7
10.9	13.0	I	3	N	1	—		5.4	26.0	37.6	~~64.3~~	64.1
10.7	13.4	I	4	N	1	—		5.4	26.8	37.6	~~63.5~~	63.3
11.2	14.7	I	4	K=H	2	—		5.6	29.4	37.4	~~60.9~~	60.7
10.7	14.5	I	4	N	2	—		5.4	29.0	37.6	~~61.3~~	61.1
11.0	16.0	I	5	N	2	—		5.5	32.0	37.5	~~58.3~~	58.1

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DM.	R.A.		Dec.		Mag.	H	V	H'	
4355	20	53.6	+ 36	11	8.0	89.4	42.8	90.5	
4314	20	49.0	+ 36	32	6.5	88.0	43.0	89.7	
4292	20	47.0	+ 36	22	8.2	87.6	43.0	89.7	
4273	20	43.9	+ 36	20	8.5	86.9	42.9	89.4	
4267	20	41.6	+ 35	58	4.7	86.6	43.0	89.6	
4366	20	55.2	+ 36	48	7.5	89.2	43.0	89.9	
4492	21	9.8	+ 36	39	7.2	32.2	43.0	30.7	
4533	21	16.5	+ 36	33	7.0	33.3	43.0	30.6	
4557	21	19.9	+ 36	2	6.0	33.9	42.8	30.7	
4568	21	21.6	+ 36	30	5.0	34.4	42.9	30.9	
~~4533~~	~~21~~	~~16.5~~	~~+ 36~~	~~33~~	~~7.0~~	~~33.3~~	~~43.0~~		
4543	21	17.9	+ 36	44	6.0	33.7	42.9	30.9	Look up on plate.
4537	21	17.5	+ 36	47	6.3	33.5	43.0	30.6	" " " "
4513	21	13.6	+ 36	38	8.5	32.8	42.9	30.7	
4495	21	10.4	+ 36	48	8.5	32.2	43.0	30.6	
4172	20	59.7	+ 37	3	8.3	89.9	43.0	90.0	
4153	20	56.7	+ 37	5	7.7	89.5	43.1	90.0	
4117	20	51.4	+ 37	12	8.2	88.4	43.0	89.8	
4289	20	46.6	+ 36	58	8.3	87.4	43.0	89.6	
4235	21	8.3	+ 37	10	7.3	31.7	43.1	30.4	
4240	21	9.0	+ 37	25	4.0	32.0	43.0	30.6	
4205	21	4.9	+ 37	20	8.0	31.1	43.1	30.4	
~~4144~~	~~21~~	~~4.9~~	~~+ 36~~	~~54~~	~~7.9~~	—	—	—	
4217	21	5.9	+ 37	32	8.5	31.3	43.0	30.4	
4209	21	5.1	+ 37	38	8.4	31.1	43.0	30.3	
4203	21	4.3	+ 37	40	8.3	31.1	43.1	30.5	
4178	21	0.9	+ 37	26	7.5	30.3	43.0	30.2	
4180	21	1.5	+ 37	44	7.7	30.5	43.1	30.3	
4159	20	57.6	+ 37	35	7.5	89.6	43.1	90.0	

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Plate 739.

V	H	Type	No. Lines	K	Focus	other Lines		V	H	V	~~H~~	H
11.1	20.7	I	4	N	3	—		5.6	41.4	37.4	~~48.9~~	48.7
10.5	20.4	I	2	N	1	—		5.2	40.8	37.8	~~49.5~~	49.3
10.4	18.5	I	3	N	1	—		5.2	37.0	37.8	~~53.3~~	53.1
10.0	16.0	III	4	K=H	2	—		5.0	32.0	38.0	~~58.3~~	58.1
10.0	14.8	III	6	K=H	3	—		5.0	29.6	38.0	~~60.9~~	60.5
10.3	14.1	?	4	N	1	—		5.2	28.2	37.8	~~62.1~~	61.9
9.9	13.7	I	2	N	1	—		5.0	27.4	38.0	~~62.9~~	62.7
9.8	13.0	I	4	N	1	—		4.9	26.0	38.1	~~64.3~~	64.1
10.0	12.5	I	3	N	1	—		5.0	25.0	38.0	~~65.3~~	65.1
10.2	12.4	I	5	N	2	—		5.1	24.8	37.9	~~65.5~~	65.3
9.7	11.6	I	3	N	1	—		4.8	23.2	38.2	~~67.1~~	66.9
10.9	9.7	I	6	K=H	3	—		5.4	19.4	37.6	~~70.9~~	70.7
10.0	7.1	I	4	N	1	—		5.0	14.2	38.0	~~76.1~~	75.9
10.0	8.4	I	5	N	3	—		5.0	16.8	38.0	~~73.5~~	73.3
9.6	9.7	I	4	N	2	—		4.8	19.4	38.2	~~70.9~~	70.7
9.5	10.3	I	3	N	1	—		4.8	20.6	38.2	~~69.7~~	69.5
9.5	12.2	I	4	N	1	—		4.8	24.4	38.2	~~65.9~~	65.7
9.4	13.1	I	4	N	2	—		4.7	26.2	38.3	~~64.1~~	63.9
9.6	17.4	?	5	?	2	—		4.8	34.8	38.2	~~55.5~~	55.3
9.4	19.0	I	4	N	2	—		4.7	38.0	38.3	~~52.3~~	52.1
9.3	21.5	I	5	N	2	—		4.6	43.0	38.4	~~47.3~~	47.1
9.0	10.9	I	4	N	1	—		4.5	21.8	38.5	~~68.5~~	68.3
8.9	10.4	I	6	K=H	2	—		4.4	20.8	38.6	~~69.5~~	69.3
8.9	12.8	I	2	N	1	—		4.4	25.6	38.6	~~64.7~~	64.5
8.9	11.7	III	1?	N	1	—		4.4	23.4	38.6	~~66.9~~	66.7
8.5	12.4	I	4	N	1	—		4.2	24.8	38.8	~~65.5~~	65.3
8.7	14.9	I	4	N	1	—		4.4	29.8	38.6	~~60.5~~	60.3
8.8	16.5	I	4	K=H	2	—		4.4	33.0	38.6	~~57.3~~	57.1

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DM.	R.A.		Dec.		Mag.	H	V	H'
4076	20	45.9	+ 37	24	7.2	87.3	43.0	89.0
4081	20	46.5	+ 37	53	8.2	87.3	43.1	89.2
4110	20	50.9	+ 37	32	8.0	87.9	42.7	89.3
~~4128~~	~~20~~	~~53.0~~	~~+ 37~~	~~36~~	~~8.0~~	~~90.0~~	~~42.8~~	~~89.7~~
4325	20	57.5	+ 38	5	6.0	89.5	43.1	89.9
4333	21	0.4	+ 38	2	5.0	30.0	43.0	29.9
~~4334~~	~~21~~	~~0.4~~	~~+ 38~~	~~2~~	~~5.3~~	~~30.0~~	~~43.0~~	
4189	21	2.4	+ 37	56	7.9	30.6	43.1	30.2
4362	21	3.5	+ 38	8	7.8	30.9	43.1	30.4
4375	21	5.3	+ 38	11	8.4	31.3	43.1	30.5
4386	21	6.4	+ 38	2	8.5	31.4	43.0	30.4
4222	21	6.8	+ 37	58	7.5	31.6	43.1	30.5
4410	21	8.8	+ 38	9	8.5	32.0	43.0	30.5
4271	21	13.6	+ 37	38	6.2	33.0	43.0	31.9
4309	21	20.0	+ 37	53	8.5	34.2	42.9	30.7
4461	21	17.0	+ 38	1	7.0	33.8	43.0	30.9
~~4462~~	~~21~~	~~17.1~~	~~+ 38~~	~~6~~	~~7.5~~	~~33.9~~	~~43.1~~	
4445	21	13.6	+ 38	12	7.3	33.0	43.0	30.7
4433	21	12.0	+ 38	15	8.8	32.6	43.0	30.6
4397	21	7.3	+ 38	22	8.1	31.7	43.2	30.5
4372	21	5.0	+ 38	22	7.8	31.2	43.1	30.4
4306	20	54.1	+ 38	15	6.5	88.9	43.0	89.9
4282	20	50.1	+ 38	21	7.7	88.1	43.1	89.8
4239	20	43.5	+ 38	20	7.7	86.5	42.9	89.4
4427	21	10.6	+ 38	29	8.0	32.4	43.0	30.7
4432	21	11.9	+ 38	36	7.0	32.7	43.0	30.7
4380	21	5.6	+ 38	39	8.7	31.2	43.0	30.2
4409	21	8.7	+ 38	39	7.1	32.1	43.0	30.7
4389	21	6.8	+ 38	45	8.7	31.6	43.0	30.4
4341	21	0.3	+ 38	45	8.2	30.1	43.2	30.0
4318	20	56.3	+ 38	41	7.2	89.3	43.1	89.8

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Plate 739.

V	H	Type	No. Lines	K	Focus	Other Lines		V	H	V	H	H
8.4	14.4	I	3	N	1	—		4.2	28.8	38.8	~~61.5~~	61.3
8.5	15.3	I	3	N	1	—		4.2	30.6	38.8	~~59.4~~	59.5
~~8.8~~	~~16.5~~	~~I~~	~~4~~	~~K=H~~	~~2~~	~~—~~		~~4.4~~	~~33.0~~	~~38.6~~	~~64.3~~	
8.4	16.3	III ?	2	N	2	—		4.2	32.6	38.8	~~54.4~~	57.5
8.5	17.8	I	4	N	2	—		4.2	35.6	38.8	~~54.7~~	54.5
8.0	18.2	I	5	N	2	—		4.0	36.4	39.0	~~53.9~~	53.7
8.2	20.2	I	5	N	3	—		4.1	40.4	38.9	~~49.9~~	49.7
8.5	21.9	I	5	N	3	—		4.2	43.8	38.8	~~46.5~~	46.3
8.5	10.5	I	8	N	5	—		4.2	21.0	38.8	~~69.3~~	69.1
8.5	8.2	I	5	N	3	—		4.2	16.4	38.8	~~73.9~~	73.7
7.9	9.9	I	6	N	3	—		4.0	19.8	39.0	~~70.5~~	70.3
7.7	10.4	I	4	K=H	1	—		3.8	20.8	39.2	~~69.5~~	69.3
8.0	12.1	I	3	N	1	—		4.0	24.2	39.0	~~66.1~~	65.9
7.1	8.1	I	5	N	2	—		3.6	16.2	39.4	~~74.1~~	73.9
7.2	10.6	I	3	N	1	—		3.6	21.2	39.4	~~69.1~~	68.9
7.5	16.8	I	4	N	2	—		3.8	33.6	39.2	~~56.4~~	56.6
7.1	17.5	I	3	N	1	—		3.6	35.0	39.4	~~56.3~~	55.1
7.1	20.5	I	3	N	1	—		3.6	41.0	39.4	~~49.3~~	49.1
7.5	21.4	I	5	N	2	—		3.8	42.8	39.2	~~47.5~~	47.3
6.5	19.7	I	3	N	1	—		3.2	39.4	39.8	~~50.9~~	50.7
6.6	18.9	?	3	N	3	—		3.3	37.8	39.7	~~52.5~~	52.3
6.7	17.9	I	6	N	2	—		3.4	35.8	39.6	~~54.5~~	54.3
6.9	17.2	I	5	K=H	3	—		3.4	34.4	39.6	~~55.9~~	55.7
6.7	16.4	I	4	N	1	—		3.4	32.8	39.6	~~57.5~~	57.3
6.8	15.9	I	3	N	1	—		3.4	31.8	39.6	~~58.5~~	58.3
6.6	15.2	I	2	N	1	—		3.3	30.4	39.7	~~59.9~~	59.7
7.1	14.5	I	3	N	1	—		3.6	29.0	39.4	~~61.3~~	61.1
6.6	9.1	I	4	K=H	2	—		3.3	18.2	39.7	~~70.1~~	71.9

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DM.	R.A.		Dec.		Mag.	H	V	H'
4353	21	1.6	+38	55	8.4	30.4	43.1	30.1
4335	20	59.3	+38	47	9.0	89.9	43.0	90.1
~~4318~~	~~20~~	~~56.3~~	~~+38~~	~~41~~	~~7.2~~	~~89.3~~	~~43.1~~	
4321	20	56.8	+38	56	6.4	89.4	43.1	89.9
4301	20	52.9	+38	55	7.4	88.5	43.1	89.7
4382	20	52.1	+39	6	7.0	88.5	43.1	90.0
4258	20	46.8	+38	57	7.3	87.2	43.1	89.6
4235	20	42.5	+38	45	6.7	86.3	43.0	89.4
4431	21	11.7	+38	47	4.5	32.7	43.0	30.7
4476	21	17.5	+38	44	7.8	33.9	42.9	30.9
4519	21	13.3	+39	8	6.8	33.1	43.1	30.7
4510	21	11.9	+39	8	7.5	32.7	42.9	30.7
4482	21	7.5	+39	6	8.7	31.7	43.1	30.4
4542	21	17.9	+39	24	6.8	34.1	43.0	30.9
4507	21	11.4	+39	25	8.8	32.6	43.0	30.6
4408	20	55.4	+39	25	8.0	89.0	43.2	89.8
4394	20	53.7	+39	30	8.5	88.7	43.1	89.8
4345	20	45.9	+39	6	8.0	86.9	42.7	89.4
4331	20	43.6	+39	15	7.3	86.4	43.0	89.4
4354	20	47.8	+39	47	8.5	87.2	43.0	89.3
4368	20	49.9	+39	45	7.2	87.7	43.1	89.4
4386	20	52.4	+39	43	7.7	88.2	43.1	89.5
4400	20	54.4	+39	41	6.8	88.8	43.1	89.8
4413	20	56.4	+39	44	7.7	89.2	43.1	89.8
4421	20	57.8	+39	40	8.0	89.6	43.1	90.0
4427	20	59.5	+39	46	8.6	89.9	43.1	90.0
4438	21	1.3	+39	28	8.7	30.3	43.1	30.1
4529	21	15.4	+39	44	6.5	33.6	43.0	30.9

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Plate 739.

V	H	Type	Lines	K	Focus	other Lines		V	H	V	H	H
5.9	8.4	I?	1	N	2	—		3.0	16.8	40.0	~~73.5~~	73.3
5.8	12.6	I	4	N	1	—		2.9	25.2	40.1	~~65.1~~	64.9
6.1	16.6	I	4	K=H	2	—		3.0	33.2	40.0	~~57.1~~	56.9
6.0	16.9	I	3	N	1	—		3.0	33.8	40.0	~~56.5~~	56.3
6.0	17.7	I	4	K=H	1	—		3.0	35.4	40.0	~~54.9~~	54.7
6.0	18.5	I	2	N	1	—		3.0	37.0	40.0	~~53.3~~	53.1
6.0	19.3	I	6	N	3	—		3.0	38.6	40.0	~~51.7~~	51.5
5.5	17.9	I	4	N	1	—		2.8	35.8	40.2	~~54.5~~	54.3
5.5	17.3	III	1	N	1	—		2.8	34.6	40.2	~~55.7~~	55.5
5.0	18.2	I	8	N	5	Seen		2.5	36.4	40.5	~~53.9~~	53.7
5.4	19.4	I	4	N	1	—		2.7	38.8	40.3	~~51.5~~	51.3
5.1	19.5	I	4	N	2	—		2.6	39.0	40.4	~~51.3~~	51.1
4.8	16.1	I	4	N	1	—		2.4	32.2	40.6	~~58.1~~	57.9
5.4	15.3	I	5	N	1	—		2.7	30.6	40.3	~~59.7~~	59.5
5.0	15.0	I	3	N	1	—		2.5	30.0	40.5	~~60.3~~	60.1
5.0	12.8	I	5	N	3	—		2.5	25.6	40.5	~~64.9~~	64.5
5.0	11.7	?	2	?	2	—		2.5	23.4	40.5	~~66.9~~	66.7
4.9	11.3	?	3	?	1	—		2.4	22.6	40.6	~~67.7~~	67.5
5.2	10.0	I	7	K=.5H	3	—		2.6	20.0	40.4	~~70.3~~	70.1
5.0	7.6	I	3	N	1	—		2.5	15.2	40.5	~~75.1~~	74.9
5.2	9.0	I	3	N	1	—		2.6	18.0	40.4	~~72.3~~	72.1
4.5	7.2	I	2	N	1	—		2.2	14.4	40.8	~~75.9~~	75.7
3.4	9.2	I	4	N	1	—		1.7	18.4	41.3	~~71.9~~	71.7
4.0	11.5	I	3	N	1	—		2.0	23.0	41.0	~~67.3~~	67.1
3.4	11.3	III	3	K=H	2	—		1.7	22.6	41.3	~~67.7~~	67.5
2.9	10.9	III	2?	N	2	—		1.4	21.8	41.6	~~68.5~~	68.3
2.9	10.3	I	3	N	1	—		1.4	20.6	41.6	~~69.7~~	69.5
2.0	10.6	I	1	N	4	—		1.0	21.2	42.0	~~69.1~~	68.9

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DM.	R.a.		Dec.		Mag.	H	V	H'	
4503	21	17.2	+40	5	7.6	34.0	43.1	30.7	
4437	21	6.4	+40	11	7.7	31.6	43.1	30.5	
4389	20	56.0	+40	3	7.0	89.2	43.0	89.9	
4403	20	55.0	+39	46	8.0	88.8	42.8	89.6	
4374	20	53.1	+40	8	8.1	88.5	43.1	89.8	
4362	20	50.9	+40	6	8.6	87.9	43.1	89.4	
4354	20	49.0	+40	10	6.8	87.6	43.2	89.6	
4369	20	52.6	+40	21	8.2	88.4	43.2	89.8	
4378	20	54.0	+40	24	7.3	88.6	43.2	89.6	
4364	20	51.8	+40	37	4.0	88.2	43.1	89.7	
4350	20	48.7	+40	21	8.4	87.5	43.1	89.5	
~~4348~~	~~20~~	~~48.6~~	~~+40~~	~~9~~	~~8.6~~	~~89.4~~	~~43.9~~		
4346	20	48.3	+40	30	7.5	87.3	43.1	89.4	
4393	20	57.2	+40	43	8.4	89.4	43.1	89.9	
4401	20	59.2	+40	26	8.2	89.8	43.1	89.9	
4412	21	0.7	+40	24	8.4	33.7	43.9	30.7	
4407	21	0.1	+40	35	8.4	30.1	43.1	30.1	look up on plate.
4432	21	5.8	+40	36	7.0	31.4	43.1	30.1	
4449	21	8.8	+40	33	7.0	32.2	43.1	30.7	
4457	21	9.7	+40	36	8.2	32.3	43.0	30.6	
4485	21	13.8	+40	26	6.5	33.3	43.0	30.9	
4518	21	19.6	+40	27	8.7	34.8	43.0	31.3	
4498	21	15.9	+40	22	8.5	33.9	43.0	30.9	
4522	21	20.7	+40	46	7.9	35.1	43.0	31.3	
4145	21	15.6	+41	22	7.8	34.0	43.1	31.0	
4051	21	9.4	+41	3	8.5	32.4	43.0	30.8	
4056	21	9.9	+41	25	6.5	32.5	43.1	30.7	
4067	21	11.0	+41	39	6.3	32.8	43.0	30.8	
4081	21	12.6	+41	37	8.5	33.2	43.0	30.8	
4046	21	11.9	+42	5	6.4	33.1	43.1	30.8	

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Plate 739.

V	H	Type	No. Lines	K	Focus	other Lines		V	H	V	H	H
2.5	13.5	I	4	N	2	—		1.2	27.0	41.8	~~63.3~~	63.1
4.1	13.9	I	5	N	1	—		2.0	27.8	41.0	~~62.5~~	62.3
4.1	15.6	I	6	K=H	3	—		2.0	31.2	41.0	~~59.1~~	58.9
4.0	18.0	I	4	N	2	—		2.0	36.0	41.0	~~54.3~~	54.1
3.5	17.6	I	7	N	4	—		1.8	35.2	41.2	~~55.1~~	54.9
2.8	16.9	I	2	N	1	—		1.4	33.8	41.6	~~56.5~~	56.3
2.7	17.2	I	7	N	3	—		1.4	34.4	41.6	~~55.9~~	55.7
2.5	18.0	III?	1	N	1	—		1.2	36.0	41.8	~~54.3~~	54.1
2.3	18.8	I	3	N	3	—		1.2	37.6	41.8	~~52.7~~	52.5
2.5	19.4	I	6	N	3	—		1.2	38.8	41.8	~~51.5~~	51.3
2.5	20.5	I	4	N	2	—		1.2	41.0	41.8	~~49.3~~	49.1
3.3	19.8	I	4	N	1	—		1.6	39.6	41.4	~~50.9~~	50.5
3.0	21.6	I	4	N	2	—		1.5	43.2	41.5	~~49.1~~	46.9
2.3	21.8	I	3	N	2	—		1.1	43.6	41.9	~~48.9~~	46.5
2.5	23.0	I	3	N	2	—		1.2	46.0	41.8	~~44.2~~	44.1
3.5	23.8	I	4	N	4	—		1.8	47.6	41.2	~~43.7~~	43.5
4.5	24.3	I	4	N	2	—		2.2	48.6	40.8	~~41.9~~	41.5
3.1	23.1	I	3	N	1	—		1.6	46.2	41.4	~~44.1~~	43.9

Plate 744

20.6	12.7	I	6	N	5	—		10.3	25.4	27.6	~~24.2~~	24.1
20.2	15.5	I	3	N	2	—		10.1	31.0	27.8	~~18.6~~	18.5
19.9	12.1	I	3	N	1	—		10.0	24.2	27.9	~~25.4~~	25.3
19.0	14.9	I	3	N	1	—		9.5	29.8	28.4	~~19.8~~	19.7
17.8	9.9	I	4	N	2	—		8.9	19.8	29.0	~~29.8~~	29.7
17.6	10.9	I	5	N	3	—		8.8	21.8	29.1	~~27.8~~	27.7
17.6	13.8	I	3	N	1	—		8.8	27.6	29.1	~~22.0~~	21.9
17.3	15.6	I	7	N	5	—		8.6	31.2	29.3	~~18.4~~	18.3

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1966phae.proj..031F

DM.	R.A.	Dec.	Mag.	H	V	H'
4021	21	4.2 + 41 51	7.6	31.2	43.0	30.5
4014	21	3.0 + 41 0	7.9	30.8	43.0	30.3
3987	20	58.4 + 41 3	7.0	89.6	43.0	89.9
3943	20	52.0 + 41 8	7.3	88.0	43.1	89.5
3949	20	53.2 + 41 23	6.9	88.4	43.2	89.7
3963	20	55.1 + 41 38	8.7	88.9	43.0	89.9
3956	20	54.1 + 41 46	6.5	88.5	43.2	89.6
3944	20	52.2 + 41 53	7.4	88.2	43.1	89.7
3932	20	50.0 + 41 58	6.9	87.6	43.2	89.5
3922	20	48.2 + 41 52	6.8	87.0	43.1	89.2
3909	20	45.4 + 41 51	7.3	86.4	43.0	89.3
3916	20	47.3 + 41 26	7.7	86.9	43.0	89.3
3889	20	42.4 + 41 32	7.3	85.6	43.0	89.0
~~3897~~	~~20~~	~~43.4 + 41 13~~	~~7.3~~	~~86.6~~	~~42.9~~	
3884	20	42.0 + 41 53	6.8	85.6	43.0	89.1
3869	20	38.7 + 41 42	7.0	84.7	42.9	88.7
3856	20	36.7 + 41 12	5.3	84.3	43.0	88.7
4276	20	35.6 + 40 41	7.0	84.2	42.9	88.7
3868	20	38.6 + 41 19	8.5	84.8	42.9	88.8
~~3889~~	~~20~~	~~42.4 + 41 32~~	~~7.3~~	~~88.6~~	~~43.1~~	
3410	19	24.9 + 27 39	3.0	50.3	37.9	49.8
3379	19	18.6 + 27 48	7.0	49.6	37.9	49.7
3421	19	26.3 + 27 58	8.0	50.5	38.0	49.8
3328	19	20.0 + 28 29	8.0	49.8	38.0	49.8
3670	19	31.4 + 29 1	6.8	51.2	37.9	49.9
3651	19	29.1 + 29 8	5.8	50.9	37.9	49.9
3609	19	22.5 + 29 9	7.0	50.1	38.0	49.7
3584	19	18.4 + 29 20	5.2	49.6	37.9	49.8

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Plate 7 H K

V	H	Type	No. Lines	K	Focus	Other Lines		V	H	V	H	H
17.9	20.5	I	3	N	1	—		9.0	41.0	28.9	~~8.6~~	8.5
16.7	16.6	I	3	N	1	—		8.4	33.2	29.5	~~16.4~~	16.3
16.5	18.0	I	2	N	1	—		8.2	36.0	29.7	~~13.6~~	13.5
17.1	9.8	I	3	N	1	—		8.6	19.6	29.3	~~30.0~~	29.9
17.0	8.8	I	2	N	1	—		8.5	17.6	29.4	~~32.0~~	31.9
16.3	9.0	III	3	K=H	3	—		8.2	18.0	29.7	~~34.6~~	31.5
15.9	10.0	I	3	N	1	—		8.0	20.0	29.9	~~29.6~~	29.5
15.8	16.6	I	2	N	1	—		7.9	33.2	30.0	~~16.4~~	16.3
15.5	19.8	I	2	N	1	—		7.8	39.6	30.1	~~10.0~~	9.9
15.5	20.6	I	3	N	1	—		7.8	41.2	30.1	~~8.4~~	8.3
15.0	21.9	I	2	N	1	—		7.5	43.8	30.4	~~5.8~~	5.7
15.0	7.3	I	4	N	3	—		7.5	14.6	30.4	~~35.0~~	34.9
15.0	8.2	I	2	N	1	—		7.5	16.4	30.4	~~33.2~~	33.1
14.0	9.3	I	3	N	1	—		7.0	18.6	30.9	~~31.0~~	30.9
14.1	10.2	I	2	N	1	—		7.0	20.4	30.9	~~29.2~~	29.1
14.1	11.7	I	2	N	2	—		7.0	23.4	30.9	~~26.2~~	26.1
14.5	15.4	I	3	N	2	—		7.2	30.8	30.9	~~18.8~~	18.7
14.4	18.1	I	5	N	2	—		7.2	36.2	30.7	~~13.4~~	13.3
14.0	19.0	I	4	N	2	—		7.0	38.0	30.9	~~11.6~~	11.5
13.7	20.7	I	5	N	3	—		6.8	41.4	31.1	~~8.2~~	8.1
13.7	13.2	I	3	N	1	—		6.8	26.4	31.1	~~23.2~~	23.1
12.5	8.6	I	2	N	1	—		6.2	17.2	31.7	~~32.4~~	32.3
12.2	13.0	I	3	N	1	—		6.1	26.0	31.8	~~23.6~~	23.5
13.2	13.2	I	2	N	1	—		6.6	26.4	31.3	~~23.2~~	23.1
12.4	17.0	I	4	N	2	—		6.2	34.0	31.7	~~15.6~~	15.1
12.5	17.4	I	4	N	2	—		6.2	34.8	31.7	~~14.8~~	14.7
11.7	7.5	I	4	N	3	—		5.8	15.0	32.1	~~34.6~~	34.5
11.8	9.3	I	3	N	1	—		5.9	18.6	32.0	~~31.0~~	30.9

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1996phae.proj..031F

DM.	R.A.	Dec.	Mag.	H	V	H'	
3240	19	7.2 + 28	59	7.0	48.2	38.0	49.7	
3568	19	16.0 + 29	38	7.2	49.2	38.0	49.7	
3550	19	12.8 + 29	42	8.0	48.8	37.9	49.6	
3672	19	31.7 + 29	17	7.5	51.3	37.9	49.9	
3686	19	33.8 + 29	24	7.6	51.4	37.9	49.8	
3684	19	33.7 + 29	49	5.3	51.7	38.0	50.1	
3658	19	31.2 + 30	0	7.8	51.2	38.0	49.8	
3524	19	16.0 + 30	6	7.7	49.2	38.0	49.7	
3479	19	8.7 + 30	6	7.8	48.3	37.9	49.6	
~~3491~~	~~19~~	~~9.8 + 30~~	~~17~~	~~5.8~~	~~49.4~~	~~38.1~~	~~50.7~~	look up on plate.
3464	19	6.7 + 30	6	7.7	47.9	37.9	49.4	
3442	19	3.8 + 30	20	7.0	47.6	37.8	49.5	
3706	19	37.5 + 30	20	6.2	52.1	37.8	49.9	
~~3692~~	~~19~~	~~35.6 + 30~~	~~23~~	~~7.5~~	~~52.0~~	~~37.9~~	~~50.1~~	
3697	19	36.0 + 30	28	6.5	52.4	38.0	50.5	
3673	19	33.0 + 30	53	7.9	51.6	37.9	50.0	
3655	19	30.9 + 30	55	8.2	51.3	37.9	49.9	
3622	19	27.3 + 30	56	6.9	50.7	37.9	49.8	
3542	19	18.7 + 30	46	7.0	49.5	38.0	49.6	
3502	19	12.4 + 30	45	6.9	48.6	38.0	49.5	
3495	19	10.4 + 30	47	6.8	48.4	37.8	49.5	
3497	19	6.2 + 31	3	6.0	47.6	37.8	49.2	
3622	19	23.9 + 31	5	8.1	50.3	37.9	49.8	
3713	19	34.6 + 31	43	7.6	51.8	37.9	49.9	
3625	19	24.4 + 31	54	8.1	50.4	38.0	49.8	
3618	19	23.8 + 31	20	7.0	50.2	37.9	49.7	
3550	19	14.9 + 31	50	7.0	48.9	38.0	49.5	
3544	19	13.9 + 31	42	7.1	48.7	37.9	49.4	
3531	19	37.2 + 32	5	6.0	52.2	37.9	49.8	
3506	19	33.1 + 32	5	7.5	51.7	38.0	50.0	

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October 26. 1886.

Plate 741.

V	H	Type	No. Lines	K	Focus	Other Lines.	V	H	V	H	H
12.8	19.4	III?	1	N	1	—	6.4	38.8	31.5	~~+0.8~~	10.7
11.9	20.5	I	3	N	1	—	6.0	41.0	31.9	~~8.6~~	8.5
11.2	15.5	III	1	N	1	—	5.6	31.0	32.3	~~+8.6~~	18.5
11.2	22.5	I	4	K=H	3	—	5.6	45.0	32.3	~~4.6~~	4.5
10.5	8.0	I	2	N	2	—	5.2	16.0	32.7	~~33.6~~	33.5
10.4	11.4	?	2	N	2	—	5.2	22.8	32.7	~~26.8~~	26.7
9.6	10.3	I	3	N	1	—	4.8	20.6	33.1	~~29.0~~	28.9
9.7	12.4	I	4	N	3	—	4.8	24.8	33.1	~~24.8~~	24.7
9.8	13.8	I	3	N	2	—	4.9	27.6	33.0	~~22.0~~	21.9
10.2	15.6	?	2	N	2	—	5.1	31.2	32.8	~~+8.4~~	18.3
10.3	18.5	I	3	N	2	—	5.2	37.0	32.7	~~12.6~~	12.5
9.8	17.5	I	5	N	3	—	4.9	35.0	33.0	~~14.6~~	14.5
9.5	16.0	?	2	N	2	—	4.8	32.0	33.1	~~17.6~~	17.5
8.2	7.2	I	4	N	2	—	4.1	14.4	33.8	~~35.2~~	35.1
8.3	10.8	I	2	N	1	—	4.2	21.6	33.7	~~28.0~~	27.9
8.0	12.2	I	9	N	5	—	4.0	24.4	33.9	~~25.2~~	25.1
7.5	10.7	I	4	N	1	—	3.8	21.4	34.1	~~28.2~~	28.1
8.0	19.4	I	3	N	1	—	4.0	38.8	33.9	~~+0.8~~	10.7
7.5	19.3	I	2	N	1	—	3.8	38.6	34.1	~~+1.0~~	10.9
7.0	21.6	I	3	N	1	—	3.5	43.2	34.4	~~6.4~~	6.3
6.4	16.7	I	5	N	3	—	3.2	33.4	34.7	~~16.2~~	16.1
5.4	10.3	I?	2	N	1	—	2.7	20.6	35.2	~~29.0~~	28.9
4.6	11.4	?	2?	N	1	—	2.3	22.8	35.6	~~26.8~~	26.7
4.3	12.5	I	6	N	3	—	2.2	25.0	35.7	~~24.6~~	24.5
1.8	17.2	I	2	N	1	—	0.9	34.4	37.0	~~+5.2~~	15.1
4.1	13.0	I	3	N	2	—	2.0	26.0	35.9	~~23.6~~	23.5
2.8	10.5	I	3	N	2	—	1.4	21.0	36.5	~~28.6~~	28.5
4.0	14.4	I	7	N	5	—	2.0	28.8	35.9	~~30.8~~	20.7
3.6	13.8	I	2	N	1	—	1.8	27.6	36.1	~~22.0~~	21.9
3.6	19.3	I	4	N	1	—	1.8	38.6	36.1	~~+1.0~~	10.9
4.0	19.9	I	4	N	1	—	2.0	39.8	35.9	~~4.8~~	9.7
4.1	22.0	I	5	N	3	—	2.0	44.0	35.9	~~5.6~~	0.5

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DM.	R.A.	Dec.	Mag.	H	V	H'
3514	19 9.3	+31 36	7.0	48.1	38.0	49.4
3354	19 6.8	+32 0	7.6	48.8	38.0	50.4
3416	19 18.5	+32 27	7.5	49.5	38.0	49.7
3326	19 1.9	+32 16	6.0	46.9	37.9	49.4
3526	19 36.1	+32 44	7.0	52.1	37.9	49.8
3474	19 28.0	+32 53	7.0	50.8	38.1	49.7
3518	19 30.8	+33 8	7.9	51.4	37.9	49.9
3487	19 25.8	+33 10	7.0	50.6	38.0	49.7
3463	19 22.4	+33 5	7.4	50.0	38.0	49.6
3411	19 18.1	+32 56	6.9	49.3	38.0	49.5
3379	19 11.3	+32 52	7.5	48.3	38.1	49.4
3409	19 13.6	+33 8	6.8	48.6	38.0	49.4
3434	19 17.1	+33 14	6.2	49.1	38.0	49.5
3572	19 38.4	+33 49	6.7	52.8	37.9	50.1
3507	19 29.4	+33 29	7.5	51.0	37.7	49.5 ~~49.6~~
3590	19 26.4	+34 9	4.6	50.8	38.2	49.8
3620	19 30.0	+34 22	7.0	51.4	38.2	49.9
3378	19 8.9	+33 58	7.3	47.7	38.0	49.1
3475	19 9.2	+34 18	7.2	47.8	38.1	49.3
3439	19 3.8	+34 22	6.5	47.0	37.9	49.5
3503	19 15.3	+34 55	6.4	48.7	38.1	49.3
~~3480~~	~~19 31.0~~	~~+35 21~~	~~7.1~~	~~51.4~~	~~38.1~~	
3625	19 30.8	+34 54	7.1	51.4	37.6	49.8
3678	19 28.2	+35 43	7.9	51.0	38.0	49.6
3658	19 25.5	+35 56	6.5	50.5	38.1	49.6
3417	19 14.6	+37 4	6.2	49.0	38.0	49.9
3650	19 24.3	+38 10	6.5	50.3	38.0	49.6
3619	19 30.6	+36 37	6.0	41.6	38.0	39.8
3557	19 20.9	+36 2	5.0	49.7	38.0	49.4
3566	19 22.5	+36 14	7.3	50.1	38.0	49.6
3458	19 8.7	+36 10	6.9	47.3	38.0	48.9
3523	19 7.2	+35 56	6.8	47.0	37.9	48.8
3485	19 21.1	+35 52	5.2	46.1	37.9	48.8

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November 15, 1886.

Plate 635.

		V	H	Type	No. Lines	K	Focus	Other Lines.	V.	H.	V.	H.
1	30	22.9	13.0	I	4	N	1	—	11.4	26.0	1.6	44.7
		20.7	21.3	I	3	N	1	—	10.4	42.6	2.6	28.1
		19.6	19.6	I	4	N	2	—	9.8	39.2	3.2	31.5
		19.4	23.8	I	4	N	2	—	9.7	47.6	3.3	23.1
		18.8	22.2	I	3	N	1	—	9.4	44.4	3.6	26.3
		18.5	11.8	I	3	N	1	—	9.2	23.6	3.8	47.1
		18.2	13.3	I	3	N	1	—	9.1	26.6	3.9	44.1
		18.0	17.3	I	3	N	1	—	9.0	34.6	4.0	36.1
		18.0	16.0	I	2	N	1	—	9.0	32.0	4.0	38.7
		17.5	12.3	I	6	N	2	—	8.8	24.6	4.2	46.1
		17.5	14.5	I	2	N	1	—	8.8	35.0	4.2	35.7
		16.8	6.0	I	4	N	2	—	8.4	12.0	4.6	58.7
		16.8	7.4	?	1	N	1	—	8.4	14.8	4.6	55.9
		16.6	17.7	I	4	N	1	—	8.3	35.4	4.7	35.3
		16.4	23.2	I?	2	N	1	—	8.2	46.4	4.8	24.3
		15.7	19.4	I	7	N	3	—	7.8	38.8	5.2	31.9
		15.5	22.1	I	2	N	1	—	7.8	44.2	5.2	26.5
		15.6	18.7	I	2	N	1	—	7.8	37.4	5.2	33.3
		15.5	18.3	I	3	N	1	—	7.8	36.6	5.2	34.1
		15.0	15.1	III?	2	N	1	—	7.5	30.2	5.5	40.5
		14.9	14.5	I	3	N	1	—	7.4	29.0	5.6	41.7
		15.0	7.5	I	3	N	1	—	7.5	15.0	5.5	55.7
		14.5	15.8	I	3	N	1	—	7.2	31.6	5.8	39.1
		14.0	15.5	I	4	N	1	—	7.0	31.0	6.0	39.7
		14.8	23.1	I	2	N	1	—	7.4	46.2	5.6	24.5
		14.5	20.9	I	4	N	1	—	7.2	41.8	5.8	28.9
		14.0	21.6	I	3	N	1	—	7.0	43.2	6.0	27.5
		13.7	19.6	I	3	N	1	—	6.8	39.2	6.2	31.5

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No.	R.A.	Dec.	Mag.	H.	V.
4122	19	44.7	+1 14	8.0	70.7	12.6
3932	19	28.1	+2 36	7.2	70.7	13.0
4097	19	31.6	+3 3	7.0	70.8	12.8
4043	19	23.3	+3 8	7.0	70.9	12.8
4065	19	26.4	+3 23	7.4	70.8	12.9
4185	19	47.0	+3 57	8.9	70.6	13.2
4172	19	44.2	+3 44	6.8	70.8	12.8
4200	19	35.8	+4 2	8.6	70.4	13.0
4138	19	38.7	+3 54	7.3	70.7	12.9
4264	19	46.2	+4 2	6.5	70.8	12.8
4196	19	35.4	+4 18	8.8	70.4	13.1
4341	19	58.7	+4 22	7.0	70.7	12.8
4325	19	56.0	+4 20	7.5	70.8	12.7
4195	19	35.4	+4 37	8.0	70.8	12.9
4138	19	24.5	+4 43	7.8	70.9	12.9
4225	19	32.0	+5 4	5.0	70.8	12.9
4190	19	26.6	+5 9	6.9	70.8	13.0
4235	19	33.4	+5 7	8.5	70.8	12.9
4242	19	34.3	+5 7	8.8	70.9	12.9
4295	19	40.6	+5 26	6.8	70.8	12.9
4299	19	41.8	+5 24	8.4	70.8	12.8
4393	19	55.9	+5 21	8.0	70.9	12.9
4285	19	39.1	+5 38	8.5	70.7	12.8
4290	19	39.8	+5 49	8.3	70.8	12.8
4177	19	24.6	+5 28	7.0	70.8	12.9
4209	19	29.1	+5 42	7.0	70.9	12.9
4198	19	27.6	+5 55	8.2	70.8	12.9
4235	19	31.6	+6 6	8.4	70.8	12.9

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November 15, 1886.

Plate 635.

V	H	Type	No. Lines	K	Focus	other Lines	V.	H.	V.	H.
13.5	17.21	I	2	N	1	—	6.8	34.4	6.2	36.3
13.4	16.8	I	1	N	1	—	6.7	33.6	6.3	37.1
13.9	12.0	I	3	N	1	—	7.0	24.0	6.0	46.7
13.8	11.3	III	6	K=H	H	seen	6.9	22.6	6.1	48.1
12.0	6.9	III	2	N	2	—	6.0	13.8	7.0	56.9
11.9	8.9	I	4	N	1	—	6.0	17.8	7.0	52.9
11.7	8.5	I	4	N	1	—	5.8	17.0	7.2	53.7
11.3	5.7	I	3	N	1	—	5.6	11.4	7.4	59.3
11.5	10.3	I	3	N	1	—	5.8	20.6	7.2	50.1
11.7	12.9	?	2	N	1	—	5.8	25.8	7.2	44.9
11.7	13.3	I	4	N	1	—	5.8	26.6	7.2	44.1
11.3	15.1	I	2	N	1	—	5.6	30.2	7.4	40.5
11.3	16.1	I	8	K=.5H	3	—	5.6	32.2	7.4	38.5
11.3	16.8	I	4	N	1	—	5.6	33.6	7.4	37.1
11.3	18.9	I	2	N	1	—	5.6	37.8	7.4	32.9
11.3	20.5	I	5	N	1	—	5.6	41.0	7.4	29.7
11.8	21.9	III	6	K=H	3	seen	5.9	43.8	7.1	26.9
12.8	23.0	I	3	N	1	—	6.4	46.0	6.6	24.7
10.9	19.1	I	2	N	1	—	5.4	38.2	7.6	32.5
10.9	21.8	I	5	N	2	—	5.4	43.6	7.6	27.1
10.7	22.0	I	3	N	1	—	5.4	44.0	7.6	26.7
11.0	22.3	I	3	N	1	—	5.5	44.6	7.5	26.1
9.9	20.3	I	2	N	1	—	5.0	40.6	8.0	30.1
9.7	17.5	I	4	K=H	2	—	4.8	35.0	8.2	35.7
9.0	19.4	I	4	N	2	—	4.5	39.6	8.5	31.1
9.0	16.6	III	3	K=H	2	—	4.5	33.2	8.5	37.5
10.0	14.4	I	5	N	1	—	5.0	28.8	8.0	41.9
10.5	13.1	I	5	N	2	—	5.2	26.2	7.8	44.5

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No.	R.A.	Dec.	Mag.	H.	V.
4276	19 36.4	+6 8	8.1	70.8	129
4282	19 37.3	+6 16	8.9	70.9	13.0
4330	19 46.9	+5 56	8.5	70.9	129
4357	19 48.2	+6 3	4.0	70.8	129
4416	19 57.1	+6 53	6.0	70.9	129
4395	19 53.1	+6 57	7.8	70.9	129
4335	19 53.8	+7 1	8.4	70.8	12.8
4367	19 59.6	+7 10	7.8	71.0	12.8
4308	19 50.2	+7 8	8.5	70.8	129
4267	19 45.1	+7 5	7.5	70.9	129
4260	19 44.3	+7 2	8.0	70.9	12.8
4227	19 40.6	+7 18	8.6	70.8	129
4207	19 38.4	+7 34	8.1	70.6	13.2
4197	19 37.2	+7 15	7.8	70.8	12.8
4175	19 32.9	+7 13	7.3	70.7	12.8
4151	19 29.7	+7 14	7.8	70.7	12.8
4132	19 27.0	+7 4	4.8	70.8	13.0
4175	19 24.7	+6 33	7.8	70.7	13.0
4171	19 32.6	+7 31	8.0	70.8	12.9
4133	19 27.2	+7 29	7.0	70.8	129
4130	19 26.8	+7 37	7.5	70.8	13.0
4127	19 26.2	+7 28	7.7	70.8	13.0
4163	19 30.1	+8 0	8.3	70.7	13.0
4190	19 35.8	+8 2	7.0	70.8	12.8
4169	19 31.2	+8 26	8.0	70.8	129
4200	19 37.7	+8 23	7.0	70.9	129
4241	19 42.2	+7 55	7.6	71.0	129
4265	19 44.8	+7 43	7.7	71.0	129

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Plate 635.

V	H	Type	No. Lines	K	Focus	other Lines	V.	H.	V.	H.
10.8	13.8	I	4	N	3	—	5.4	27.6	7.6	43.1
10.5	8.6	I	5	N	1	—	5.2	17.2	7.8	53.5
9.8	7.3	I	4	N	1	—	4.9	14.6	8.1	56.1
9.5	8.5	III	1	N	1	—	4.8	17.0	8.2	53.7
9.2	10.0	I	3	N	1	—	4.6	20.0	8.4	50.7
9.0	10.7	I	2	N	1	—	4.5	21.4	8.5	49.3
9.7	11.8	III	4	K=H	3	seen	4.8	23.6	8.2	47.1
9.9	12.2	I	3	N	1	—	5.0	24.4	8.0	46.3
9.0	13.6	?	6	N	5	—	4.5	27.2	8.5	43.5
8.5	12.7	I	4	N	1	—	4.2	25.4	8.8	45.3
8.0	6.7	I	3	N	1	—	4.0	13.4	9.0	57.3
7.0	11.7	I	2	N	1	—	3.5	23.4	9.5	47.3
7.5	13.3	I	7	N	3	—	3.8	26.6	9.2	44.1
8.5	16.7	I	3	N	1	—	4.2	33.4	8.8	37.3
7.6	16.9	III	1	N	1	—	3.8	33.8	9.2	36.9
8.0	21.0	I	2	N	1	—	4.0	42.0	9.0	28.7
8.0	22.7	I	5	N	2	—	4.0	45.4	9.0	25.3
6.0	12.8	I	6	N	2	—	3.0	25.6	10.0	45.1
6.0	13.4	II ?	7	N	3	seen	3.0	26.8	10.0	43.9
5.3	14.7	?	3	?	1	—	2.6	29.4	10.4	41.3
5.5	15.8	III	7	K=H	5	Bright Lines.	2.8	31.6	10.2	39.1
5.0	16.4	I	4	N	1	—	2.5	32.8	10.5	37.9
4.8	16.5	I	5	N	1	—	2.4	33.0	10.6	37.7
5.2	18.3	I	3	N	1	—	2.6	36.6	10.4	34.1
5.2	9.8	I	3	N	1	—	2.6	19.6	10.4	51.1
5.0	8.3	I	3	N	1	—	2.5	16.6	10.5	54.1
5.0	7.9	I	5	N	2	—	2.5	15.8	10.5	54.9
4.7	7.6	I	4	N	2	—	2.4	15.2	10.6	55.5

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No.	R.A.	Dec.	Mag.	H.	V.
4252	19 43.3	+7 32	7.0	70.9	12.9
4334	19 53.8	+7 36	7.6	71.0	12.8
4349	19 55.9	+7 59	7.9	70.5	12.9
4300	19 54.0	+8 10	6.2	71.0	13.0
4282	19 50.9	+8 15	8.5	70.9	12.8
4273	19 49.6	+8 25	8.8	71.0	12.9
4261	19 47.2	+8 6	5.2	70.8	12.9
4275	19 46.2	+7 41	8.0	70.6	12.7
4236	19 43.7	+8 29	1.2	70.9	13.0
4247	19 45.5	+8 46	8.0	70.9	13.0
4320	19 57.6	+8 51	8.0	71.0	12.8
4312	19 47.6	+9 23	7.5	71.0	12.9
4288	19 44.4	+9 15	7.1	71.0	13.0
4198	19 37.4	+8 46	8.2	70.8	13.0
4233	19 37.1	+9 11	7.0	70.9	13.0
4162	19 28.7	+9 1	8.4	70.7	13.0
4139	19 25.3	+9 2	7.0	70.7	13.0
4295	19 45.3	+9 59	7.1	70.9	13.0
4073	19 44.1	+10 4	5.5	70.9	13.1
4058	19 41.6	+10 20	7.0	71.0	12.9
4043	19 39.4	+10 16	3.0	71.0	13.1
4036	19 38.1	+10 26	8.0	70.9	12.9
4032	19 37.8	+10 34	7.0	70.8	13.0
4020	19 34.2	+10 21	7.7	70.8	13.0
4117	19 51.3	+10 21	8.0	70.9	13.0
4137	19 53.9	+10 38	8.3	70.5	13.1
4143	19 54.5	+10 21	7.1	70.3	12.9
4147	19 55.3	+10 19	7.0	70.5	12.7

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Plate 635.

V	H	Type	No. Lines	K	Focus	Other Lines	—	V.	H.	V.	H.
5.0	7.0	I	3	N	1		—	2.5	14.0	10.5	56.7
5.6	7.1	I	2	N	1		—	2.8	14.2	10.2	56.5
4.5	8.6	I	2	N	1		—	2.2	17.2	10.8	53.5
3.5	9.5	I	3	N	1		—	1.8	19.0	11.2	51.7
3.7	10.0	I	2	N	1		—	1.8	20.0	11.2	50.7
3.2	10.0	I	2	N	1		—	1.6	20.0	11.4	50.7
3.8	10.8	I	7	N	3		—	1.9	21.6	11.1	49.1
3.5	12.9	III	3	K=H	2		—	1.8	25.8	11.2	44.9
3.3	14.4	?	1	N	1		—	1.6	28.8	11.4	41.9
3.0	14.5	I	7	K=.2H	2		—	1.5	29.0	11.5	41.7
2.9	7.0	I	3	N	1		—	1.4	14.0	11.6	56.7
2.7	11.3	I	3	N	1		—	1.4	22.6	11.6	48.1
4.0	20.4	?	1	N	1		—	2.0	40.8	11.0	29.9
4.4	20.7	I	5	N	2		—	2.2	41.4	10.8	29.3
3.0	17.5	I	7	K=.8H	3		—	1.5	35.0	11.5	35.7
2.3	17.7	I	4	N	2		—	1.2	35.4	11.8	35.3
2.7	11.3	I	4	N	1		—	1.4	22.6	11.6	48.1
2.3	12.6	I	3	N	1		—	1.2 ~~0.6~~	25.2	11.8 ~~12.7~~	45.5

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No.	R.A.	Dec.	Mag.	H.	V.
4160	19 56.8	+10 31	8.5	70.8	13.0
4162	19 56.9	+10 4	8.0	71.1	12.9
4132 4133	19 53.2	+10 48	8.5	70.4	13.0
4070	19 52.0	+11 11	8.2	71.0	13.0
4065	19 51.1	+11 2	7.5	71.1	12.8
4066	19 51.1	+11 12	7.5	71.1	12.8
4055	19 49.4	+11 3	5.5	71.0	12.9
4018	19 45.2	+11 4	8.2	71.0	12.9
3996	19 42.0	+11 20	6.8	70.8	13.0
3994	19 41.9	+11 28	5.8	70.9	13.0
4110	19 56.5	+11 46	8.5	70.5	13.2
4048	19 48.4	+11 35	8.2	71.0	13.0
3984	19 30.0	+10 57	6.1	70.8	13.0
3981	19 29.3	+10 50	6.8	70.7	13.0
3955	19 35.7	+11 29	5.7	70.7	13.0
3954	19 35.4	+11 32	6.9	70.8	13.1
4048	19 48.4	+11 35	8.2	71.0	13.0
4023	19 45.4	+11 54	8.6	70.6	13.1

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Plate 789.

V	H	Type	Lines	K	Focus	other lines	V.	H.
19.0	16.2	I	4	K=.5H	2	—	9.5	32.4
21.0	21.3	I	2	N	1	—	10.5	42.6
18.3	18.0	I	6	N	2	—	9.2	36.0
18.5	22.2	I	6	N	3	—	9.2	44.4
18.6	22.5	I	2	N	2	—	9.3	45.0
16.8	17.9	?	4	N	1	—	8.4	35.8
16.5	21.2	I	3	N	1	—	8.2	42.4
16.5	7.6	I	3	N	1	—	8.2	15.2
16.5	9.1	I	7	N	3	—	8.2	18.2
15.0	18.8	I	4	N	1	—	7.5	37.6
14.5	20.0	I	6	N	2	—	7.2	40.0
14.1	5.7	I	2	N	1	—	7.0	11.4
13.6	6.9	I	3	N	1	—	6.8	13.8
12.5	10.6	I	3	N	1	—	6.2	21.2
11.7	12.4	I	2	N	1	—	5.8	24.8
11.5	14.3	I	4	N	2	—	5.8	28.6
10.8	9.8	I	2	N	1	—	5.4	19.6
10.6	16.4	I	4	N	1	—	5.3	32.8
10.2	20.6	I	6	K=.5H	2	—	5.1	41.2
9.5	14.1	I	5	N	1	—	4.8	28.2
9.4	14.7	I	2	N	1	—	4.7	29.4
10.0	16.6	I	3	N	1	—	5.0	33.2
9.4	16.6	I	6	N	3	—	4.7	33.2
9.0	10.8	I	4	N	1	—	4.5	21.6
8.0	13.5	I	6	K=.5H	2	—	4.0	27.0
6.5	19.5	I	2	N	1	—	3.2	39.0
4.5	16.6	I	4	K=H	1	—	2.2	33.2
3.9	13.7	I	5	N	1	—	2.0	27.4
3.9	20.5	I	2	N	1	—	2.0	41.0

Two plates rejected, are N. disk must identify.

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V	H	Type	No. Lines	K	Focus	other Lines	V.	H.	V.	H
23.0	14.1	I	3	N	1	—	11.5	28.2	1.5	61.6
21.5	12.2	I	4	N	1	—	10.8	24.4	2.2	65.4
21.0	13.6	I	4	K=H	2	—	10.5	27.2	2.5	62.6
21.0	16.3	I	3	N	1	—	10.5	32.6	2.5	57.2
19.5	15.3	?	2	N	1	—	9.8	30.6	3.2	59.2
19.4	17.7	I	2	N	1	—	9.7	35.4	3.3	54.4
18.5	19.1	I	6	K=H	3	—	9.2	38.2	3.8	51.6
18.0	20.8	I	3	N	1	—	9.0	41.6	4.0	48.2
18.0	4.5	I	2	N	1	—	9.0	15.0	4.0	74.8
16.8	14.6	I	6	K=			8.4	29.2	4.6	60.6

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16.7	10.6	I	9	K=.5H	5	—	8.4	21.2	4.6	68.6
16.6	10.2	I	3	N	1	—	8.3	20.4	4.7	69.4
16.2	16.2	III	3?	K=H?	1	—	8.1	32.4	4.9	57.4
16.2	15.0	I	2	N	1	—	8.1	30.0	4.9	59.8
15.4	15.8	?	5	?	2	—	7.7	31.6	5.3	58.2
15.0	24.6	I	4	N	H	—	7.5	49.2	5.5	40.6
14.8	24.0	I	2	N	1	—	7.4	48.0	5.6	41.8
13.5	7.1	I	7	?	4	—	6.8	14.2	6.2	75.6
13.2	11.3	I	4	N	1	—	6.6	22.6	6.4	67.2
13.8	14.0	I	2	N	1	—	6.9	28.0	6.1	61.8
13.2	14.3	III	2	N	1	—	6.6	28.6	6.4	61.2
? 13.0	11.8	I	5	N	2	—	6.5	23.6	6.5	66.2
12.9	17.4	I	5	K=H	1	—	6.4	34.8	6.6	55.0

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No.	R.A.	Dec.	Mag.	H.	V.	
4431	21	1.5	+1	12	7.7	29.7	12.7
4320	21	5.4	+2	4	7.5	29.8	12.9
4311	21	2.7	+2	21	7.0	29.9	12.9
4297	20	57.4	+2	22	7.5	90.0	12.9
4501	20	59.3	+3	13	6.5	89.9	13.0
4488	20	54.7	+3	12	8.3	90.1	12.9
4473	20	51.9	+3	44	5.5	90.1	12.9
4461	20	48.4	+3	58	5.7	90.0	13.0
4551	21	14.8	+3	43	7.0	29.8	12.7
4615	21	0.8	+4	35	6.5	30.0	13.0
4635	21	8.6	+4	39	4.5	29.8	13.1
4639	21	9.5	+4	40	7.5	29.9	13.0
4606	20	57.4	+4	55	5.5	89.8	13.0
4613	20	59.9	+4	52	7.5	89.9	13.0
4697	20	58.3	+5	24	6.2	89.9	13.1
4613	20	40.6	+5	28	5.5	89.8	13.0
4619	20	41.9	+5	34	7.8	89.9	13.0
4811	21	15.7	+6	12	5.1	29.9	13.0
4779	21	7.2	+6	22	8.5	29.8	13.0
4759	21	1.8	+6	1	8.3	29.8	12.9
4754	21	1.3	+6	25	6.5	29.9	13.0
4776	21	6.3	+6	38	7.5	29.9	13.1
4731	20	55.1	+6	37	6.7	89.9	13.0

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V	H	Type	No Lines	K	Focus	Other Lines	V.	H.	V.	H.
12.5	8.0	III	3	K=H	1	—	6.2	16.0	6.3	73.8
12.2	10.2	I	3	N	1	—	6.1	20.4	6.9	69.4
11.9	12.0	I	3	?	1	—	6.0	24.0	7.0	65.8
12.0	14.0	I	5	N	1	—	6.0	28.0	7.0	61.8
12.2	15.3	I	2	N	1	—	6.1	30.6	6.9	59.2
12.0	17.5	I	4	N	1	—	6.0	35.0	7.0	54.8
12.1	18.4	I	7	K=.5H	3	—	6.0	36.8	7.0	53.0
12.0	20.9	I	2	?	1	—	6.0	41.8	7.0	48.0
11.9	20.5	I	2	N	1	—	6.0	41.0	7.0	48.8
11.9	24.3	I	3	N	1	—	6.0	48.6	7.0	41.2
11.4	23.5	I	5	N	3	—	5.7	47.0	7.3	42.8
11.0	11.4	I	3	N	1	—	5.5	22.8	7.5	67.0
10.8	8.2	I	2	N	1	—	5.4	16.4	7.6	73.4
9.6	10.6	I	3	N	1	—	4.8	21.2	8.2	68.6
9.5	16.0	I	3	N	1	—	4.8	32.0	8.2	57.8
9.1	9.8	I	3	N	1	—	4.6	19.6	8.4	70.2
8.5	5.9	I	3	N	1	—	4.2	11.8	8.8	78.0
8.2	8.6	I	5	N	2	—	4.1	17.2	8.9	72.6
8.0	11.3	I	4	N	1	—	4.0	22.6	9.0	67.2
8.1	12.9	I	4	N	1	—	4.0	25.8	9.0	64.0
8.5	14.4	I	4	K=H	1	—	4.2	28.8	8.8	61.0
8.8	15.7	I	2	N	1	—	4.4	31.4	8.6	58.4
7.7	20.7	I	3	N	1	—	3.8	41.4	9.2	48.4
? 7.3	11.2	I	9	K=H	5	—	3.6	22.4	9.4	67.4
7.1	13.1	I	7	K=.2H	2	—	3.6	26.2	9.4	63.6
7.0	13.2	I	9	K=.8H	5	—	3.5	26.4	9.5	63.4
7.2	18.0	I	5	N	1	—	3.6	36.0	9.4	53.8
6.8	6.3	I	3	N	1	—	3.4	12.6	9.6	77.2

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No.	RA.	Dec.	Mag.	H.	V.
4802	21	13.9	+6 46	6.0	29.9	13.0
4786	21	9.5	+6 55	7.7	29.9	13.0
4645	21	5.8	+7 6	7.7	29.8	13.1
4630	21	1.9	+7 2	7.0	29.9	13.0
4746	20	59.2	+6 56	8.0	29.8	13.0
4728	20	54.7	+6 58	8.0	29.7	13.0
4718	20	52.9	+6 57	6.5	29.7	13.0
4692	20	48.0	+6 58	7.0	29.8	13.0
4580	20	48.7	+7 8	7.3	29.7	13.1
4549	20	41.2	+7 4	7.5	29.8	13.1
4556	20	42.7	+7 20	5.5	29.7	13.0
4649	21	7.0	+7 30	8.3	29.8	13.0
4665	21	13.5	+7 35	7.8	29.9	13.0
4636	21	8.7	+8 11	8.0	29.9	13.0
4606	20	57.7	+8 16	8.2	29.7	13.1
4641	21	10.2	+8 26	8.3	29.8	13.0
4671	21	18.0	+8 47	7.8	29.8	13.0
4651	21	12.6	+8 55	7.0	29.8	13.0
4745	21	7.2	+9 2	8.1	29.8	13.0
4625	21	3.9	+8 57	7.4	29.7	13.0
4618	21	1.0	+8 47	7.7	29.8	13.0
4610	20	58.2	+8 36	8.5	29.6	13.0
4671	20	48.3	+9 10	7.4	29.7	13.0
4746	21	7.4	+9 26	4.7	29.8	13.0
4735	21	3.5	+9 28	6.2	29.7	13.1
4732	21	3.3	+9 33	4.0	29.7	13.1
4693	20	53.7	+9 26	7.7	29.7	13.0
4800	21	17.4	+9 33	6.5	30.0	13.0

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Plate 781

V	H	Type	Lines	K	Focus	Other Lines	V.	H.	V.	H.
6.5	7.8	I	4	K=H	1	—	3.2	15.6	9.8	74.2
5.7	13.3	I	3	N	1	—	2.8	26.6	10.2	63.2
5.6	19.1	III	6	K=H	2	—	2.8	38.2	10.2	51.6
4.8	9.0	III?	1	N	1	—	2.4	18.0	10.6	71.3
4.0	9.1	I	2	N	1	—	2.0	18.2	11.0	71.6
4.0	17.0	I	5	N	1	—	2.0	34.0	11.0	55.8
3.4	17.7	I	2	N	1	—	1.7	35.4	11.3	54.4
2.0	20.4	I	1	N	4	—	1.0	40.8	12.0	49.0
20.0	24.5	I	3	N	1	—	10.0	49.0	3.0	40.8

Plate 759

20.8	13.8	I	5	N	2	—	10.4	27.6	2.1	39.9
17.0	18.7	I	3	N	1	—	8.5	37.4	4.0	30.1
16.2	16.8	I	3	N	1	—	8.0	33.6	4.5	33.9
14.9	18.2	I	7	K=H	2	—	7.4	36.4	5.1	31.1
14.4	8.5	I	3	N	1	—	7.2	17.0	5.3	50.5
13.2	18.6	I	6	N	2	—	6.6	37.2	5.9	30.3
12.9	7.4	I	5	N	2	—	6.4	14.8	6.1	52.7
8.0	17.4	I	3	?	1	—	4.0	34.8	8.5	32.7
7.7	14.3	I	4	N	1	—	3.8	28.6	8.7	38.9
6.8	15.3	III	3	K=H	5	Bright Lines	3.4	30.6	9.1	36.9
4.9	16.1	I	5	N	2	—	2.4	32.2	10.1	35.3
4.3	6.5	I	3	N	1	—	2.2	13.0	10.3	54.5
3.5	5.8	I	4	N	1	—	1.8	11.6	10.7	55.9
4.3	11.5	I	3	N	1	—	2.2	23.0	10.3	44.5
2.2	9.0	I	5	N	2	—	1.1	18.0	11.4	49.5
2.2	21.7	I	4	N	1	—	1.1	43.4	11.4	24.1

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No.	R.A	Dec.	Mag.	H.	V.		
4786	21	14.3	+9	44	6.5	29.9	12.9
4476	21	3.0	+10	31	8.1	29.6	13.1
4425	20	51.5	+10	19	5.2	89.7	13.1
4516	21	11.9	+10	36	6.3	29.9	13.0
4514	21	11.6	+10	58	7.0	29.8	13.0
4457	20	55.7	+11	6	7.2	89.7	13.0
4452	20	54.2	+11	24	7.8	89.6	13.1
4501	20	48.7	+12	2	5.7	89.5	13.0
~~4430~~	~~20~~	~~44.1~~	~~+3~~	~~7~~	~~6.8~~	~~93.1~~	~~13.1~~

Look up on plate

4414	21	39.9	+2	1	5.6	67.5	12.4
4706	21	30.2	+4	3	6.3	67.6	12.5
4722	21	33.8	+4	21	7.0	67.4	12.4
4834	21	31.3	+5	7	6.2	67.7	12.5
4910	21	50.8	+5	16	7.0	67.8	12.5
4830	21	30.5	+5	59	6.3	67.7	12.6
4940	21	52.9	+6	2	6.0	67.7	12.4
4714	21	32.9	+8	32	7.2	67.7	12.5
4734	21	39.2	+8	42	8.1	67.8	12.5
4891	21	37.1	+9	13	2.3	67.7	12.6
4604	21	35.5	+10	11	6.3	67.7	12.6
4676	21	54.9	+10	16	6.5	67.9	12.5
4681	21	56.2	+10	42	6.2	67.8	12.5
4645	21	44.8	+10	26	7.0	67.8	12.6
4696	21	49.9	+11	25	6.0	67.9	12.5
4583	21	24.1	+11	31	6.0	67.5	12.6

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