

KG
11366
v. 721

No. 38.

Σ Stars and Clusters

Lists with X Plates entered.

Index.

Page.

Double Stars

X Plates examined. Double Stars to be measured.

200

Double Stars Σ of which A is brighter than

Σ No.	R.A. ¹⁸⁷⁵	Dec.	Dist.	Pos.	Magn.	Magn.	
13 ^H	0 ^h 19 ^m 28 ^s 24 ⁱ	65.0	266.9	2.0	11.2	875.	
5	3.6 10 26	8.0	162.8	6.0	10.5	1951.2327.	
12	8.5 8 7	11.5	149.9	6.2	7.8	1952.2329	
19	10.4 35 56	2.0	133.6	7.0	9.5		
22	10.9 8 9	4.7	236.7	7.0	8.0	1953.2230.	
27	16.0 12 47	31.7	344.0	6.8	10.7	1954.	
30	20.4 49 20	21.2	295.9	6.8	8.7	1955.2231	
32	24.3 15 20	13.7	107.9	6.8	10.6	1956.	
36	25.8 6 15	27.4	82.4	5.0	9.0	1957.	
39	28.4 -5 15	20.1	45.4	6.8	8.5		
40	28.6 36 8	11.6	312.2	6.8	8.8	1964	
45	32.2 46 17	8.8	83.0	7.0	10.7	931	
46	33.4 20 45	6.4	192.7	5.0	8.2	934.1965	
47	33.8 23 21	16.5	204.7	6.7	8.6	1966.	
49	34.5 -7 58	4.5	321.5	6.5	10.0		
48	34.7 70 40	5.5	333.0	7.0	7.2		
1 ^I	39.7 30 19	46.4	552.7	6.7	6.7	1967.	
59	40.7 50 45	2.2	145.0	7.2	8.1	948	
60	41.3 57 9	9.7	88.6	4.0	7.6	1968.	
61	43.1 27 3	4.4	299.0	6.0	6.0	1969	
70	46.5 52 2	7.9	244.0	7.0	10.0		
79	53.0 44 5	7.6	192.4	6.0	7.0	2462.2588	
80	53.0 0 7	18.3	300.1	7.0	8.2	902.2463	
84	57.3 0 42	16.0	252.0	6.6	9.0		
86	58.6 -6 7	12.1	171.0	8.2	8.7	903	
88	58.9 20 48	29.9	160.3	4.9	5.0	894.2464.	
90	59.2 4 15	32.8	82.7	5.9	6.8		
91	1 0.8 -2 24	3.9	328.8	6.7	7.5	2887.	
98	5.9 31 26	19.3	247.9	7.0	8.0	2589	

7.1. Diet. > 1.9"

Quality

5 5

5 5

5 5

Σ No.	P.A. ¹⁸⁷⁵	Dec.	Dist.	Pos.	Magn.	Magn.
99	1 ^h 70 ^m 23 56	8.0	227.5	4.7	10.1	
100	71 6 55	23.5	63.7	4.2	5.3	895
3 ^I	8.1 - 8 36	50.1	331.8 ⁴	5.1	7.0	
102	9.9 48 24	0.6	307.9	7.0	8.0	
108	11.7 36 44	5.9	61.9	7.0	9.8	
93	13.0 88 39	18.3	210.1	2.0	9.0	2591
117	16.9 67 30	32.2	101.8	4.4	8.9	896
120	18.6 - 6 38	7.1	280.7	7.0	10.8	
132	25.1 16 18	24.2	5.4	7.0	10.0	
131	25.4 60 3	13.6	142.4	6.0	9.2	
133	25.6 35 12	3.0	179.1	7.0	10.5	
136	28.2 11 55	16.0	78.8	6.9	8.0	
142	32.9 14 37	26.1	311.6	8.2	8.4	9.5
147	33.5 - 11 55	4.0	88.2	5.3	6.9	2493
145	34.3 25 8	11.3	31.6	6.0	10.6	
162	41.6 47 17	1.9	225.5	7.0	7.5	2888,
163	42.4 64.16	34.9	33.6	6.2	8.2	2494
174	43.3 21 40	2.6	170.5	6.2	7.4	2889,
170	44.1 75 38	3.2	246.8	6.7	7.5	2590
179	45.9 36 42	3.5	160.4	6.7	7.7	
180	46.6 18 42	8.6	360.0	4.2	4.4	907
182	47.9 60 41	3.6	302.0	7.0	7.0	2675,
4 ^I	48.7 36 39	177.5	302.8 ⁴	6.0	6.0	2676,
191	52.4 73 16	5.6	190.7	6.2	8.5	2677,
197	53.6 34 42	18.3	233.6	7.3	8.3	906
201	55.5 32 41	3.7	119.6	5.3	11.3	
202	55.5 2 9	3.6	335.7	2.8	3.9	2890,
205	56.3 41 44	10.3	62.4	3.0	5.0	1115, 2678,
208	56.5 25 19	2.0	25.2	6.2	8.4	
218	2 24 - 1 2	4.8	250.0	7.0	8.0	

Σ No.	$h.$	$m.$	1875 Dec.	Dist.	Pos.	Magn.	Magn.	
222	2	3.1	38 27	16.5	34.8	6.7	7.2	✓ 1308
227		5.2	29 43	3.6	77.9	5.0	6.4	✓ 1309
231		6.4	- 3 1	15.5	228.9	6.0	7.8	✓ 1310
239		10.2	28 9	14.0	208.9	7.0	8.0	✓ 1311
245		10.8	39 43	11.0	291.8	7.0	8.0	✓ 1312
249		13.7	44 2	2.3	194.7	7.0	9.0	
262		18.8	66 51	1.9	276.7	4.2	7.1	2740,
268		20.7	54 59	2.7	129.1	6.9	8.2	
271		23.1	24 41	11.9	180.6	6.5	11.0	
279		27.8	36 46	16.9	71.2	6.0	11.0	
281		28.2	5 2	7.7	83.3	5.0	9.6	2641
5 ^I		29.8	24 6	38.6	273.3	6.1	7.1	✓ 1122, 2642
285		31.0	32 53	1.9	177.5	7.0	7.7	
289		33.3	26 31	28.5	359.4	5.8	8.7	✓ 1316
295		34.8	- 1.14	4.9	334.6	6.0	9.2	
296		35.7	48 43	15.4	294.6	4.2	10.0	897
299		36.7	2 42	2.6	287.4	3.0	6.8	✓ 1098, 1317
307		41.6	55 23	28.0	300.4	4.0	8.5	2679,
311		42.1	16 58	3.3	119.3	4.9	8.4	
318		45.6	37 49	14.1	236.8	5.5	10.0	
320		49.3	78 56	4.4	227.0	6.3	9.5	
331		51.9	51 52	12.2	85.0	5.3	6.7	2680,
336		53.8	31 56	8.2	8.6	6.5	8.0	2681,
6 ^I	3	3.1	7 2	81.0	162.4	7.0	7.0	✓ 1313, 1323, 2570
369		8.9	40 1	3.3	28.8	6.5	7.8	2741,
374		12.8	67 1	10.8	294.7	7.0	8.5	✓ 1318
382		16.6	33 6	3.6	154.5	7.0	10.5	

Quality

A

B

A

A

A

5 5

A

 ϕ 1

5 1 1

Σ	No.	¹⁸⁷⁵ P.A.	Dec.	Dist.	Pos.	Magn.	Magn.
	385	3	18.9 59 30	2.4	161.4	4.7	9.0
	389		20.3 58 56	2.8	61.8	7.0	8.0 1319 [✓]
	390		20.5 55 1	15.0	159.6	4.8	9.2
	394		20.8 20 3	6.7	163.3	7.0	8.0 2682 [✓] , 2742 [✓]
	396		23.5 58 20	20.4	241.8	6.3	8.0 1319 [✓] , 2683 [✓]
	7 ^I		23.5 27 18	44.0	232.8 ³	6.9	7.4 1124 [✓] , 2743 [✓]
	401		23.8 27 8	11.1	270.0	6.5	7.0 1124 [✓] , 2744 [✓]
	406		24.1 4 44	9.3	123.8	7.0	9.0 2745 [✓]
	422		30.8 0 12	6.1	232.2	6.0	8.2 1116 [✓]
	426		32.5 38 43	19.7	340.6	7.0	8.5
	427		33.1 28 22	6.7	208.6	6.6	7.4
	421		33.2 71 14	12.4	235.2	7.0	11.0 2592 [✓]
	430		34.0 4 44	26.6	55.3	6.0	9.0 1117 [✓]
	431		34.5 33 34	20.0	237.2	4.2	9.5
	436		35.1 - 13 3	30.2	232.4	7.0	8.2 1209 [✓]
	434		35.8 37 59	28.3	88.2	7.0	7.8 1320, 2337, 2572 [✓]
	446		40.0 52 17	8.5	252.7	7.0	9.2 1099, 2573 [✓]
	8 ^I		40.1 23 44	117.2	289.2 ³	3.8	7.0 1099, 2540 [✓]
	452		41.2 10 46	8.9	57.9	4.5	9.6
	464		46.3 31 30	12.5	207.6	2.7	9.3
	470		48.1 - 3 18	6.7	347.3	4.0	6.0 1287 [✓]
	471		49.5 39 39	8.8	9.2	3.1	8.3 1321, 1288 [✓]
	479		53.5 22 51	7.4	128.5	7.0	7.9
	485		56.9 62 1	18.0	303.3	6.1	6.2
	495	4	0.6 14 49	3.6	216.1	6.0	8.8, 2574 [✓]
	510		5.7 0 26	10.8	300.5	6.5	9.5
	516		8.3 - 10 35	6.3	153.9	6.0	9.0

Inequality $\frac{3}{B}$

55

5

55

55

3 ~~4~~

52

 $\frac{A}{B}$ $\frac{2}{0}$

Σ	No.	R.A. ¹⁸⁷⁵	Dec.	Dist.	Pos.	Magn.	Magn.
	518	4 9.6	-7 48	85.3	107.3	4.0	9.1
	528	15.1	25 20	19.3	25.3	5.7	7.8 1342 [?]
	533	16.3	33 58	19.5	60.3	6.0	7.5 1343
	535	16.4	11 4	1.9	353.9	6.7	8.2
	534	16.5	23 59	28.9	289.7	6.2	8.0 2341, 2620 ^v
	9 ^I	17.9	21 59	339.3	172.4 ⁶	5.0	6.0 2621
	548	21.1	30 5	142.0	35.9	6.0	8.0
	10 ^I	21.4	15 38	337.4	346.2	4.7	5.0 1341
	550	22.3	53 38	10.1	307.1	5.1	6.2
	552	22.7	39 43	9.0	114.4	6.3	6.5 1322
	559	26.3	17 45	3.0	278.7	7.0	7.0 1323
	562	27.2	22 25	2.0	269.6	7.0	10.7
	2 ^{II}	28.7	16 16	109.0	36.0	1.0	11.2 2517
	570	29.4	-10 1	12.8	258.9	7.0	8.0
	571	29.9	-3 50	17.8	258.7	6.3	11.0
	572	30.6	26 40	3.2	210.3	6.5	6.5 2593
	11 ^I	32.1	15 37	427.7	192.2 ⁴	5.2	5.7 1270, 1324, 2074, 2574 ^v
	576	32.5	-13 17	12.3	172.0	6.7	7.2
	590	37.8	-9 1	9.1	318.3	6.2	6.7
	587	38.2	52 54	20.9	185.0	7.0	8.5 1325, 2672 ^v
	610	47.2	53 32	25.6	238.3	4.2	11.3
	616	50.6	37 43	6.5	351.9	4.0	7.9 1271, 2625 ^v
	618	52.0	62 54	32.2	211.5	7.0	7.3 2616
	623	52.1	27 10	20.4	205.1	6.8	8.3 1344, 2627 ^v
	12 ^I	53.9	26 31	78.8	158.4 ⁶	6.0	7.0 1341
	627	53.9	3 26	21.3	260.3	6.3	7.0 2629
	13 ^I	55.1	58 49	181.3	7.8	5.0	6.0 1290, 2630 ^v

Quality

A

A

51

B

.155

.54

4

.55

.55

Σ	No.	R.A. ¹⁸⁷⁵	Dec.	Dist.	Pos.	Magn.	Magn.	
630	4	55.1	1 27	14.0	49.2	6.8	8.0	1118
633		58.7	63 27	12.3	342.4	6.7	10.3	
645	5	1.8	27 52	11.7	26.8	6.2	8.2	1291, 2595
634		2.1	79 4	34.0	348.6	4.5	7.9	1326
649		2.5	- 8 51	21.6	80.8	7.0	8.7	1345
655		6.6	-12 1	12.8	337.6	4.2	10.5	
654		6.7	2 45	7.1	63.5	4.7	8.5	2342
653		7.3	32 33	14.7	225.5	5.0	7.2	1327
661		7.4	-13 5	3.1	358.7	5.0	7.9	
668		8.6	- 8 21	9.1	199.8	1.0	8.0	26221
674		10.2	19 59	10.5	147.3	6.5	9.5	2623
3 ^{II}		10.3	40 0	103.6	29.2	5.2	8.7	2624
681		11.2	46 49	23.4	180.5	6.3	8.3	
680		11.9	19 58	8.7	201.8	6.3	10.2	
688		13.6	-10 52	10.5	274.3	7.0	7.4	
696		16.1	3 24	31.7	28.2	5.0	7.0	1328
698		16.9	34 45	31.1	346.2	6.2	7.7	1329
701		17.3	- 8 33	5.9	146.0	6.7	8.5	
712		19.8	2 49	3.1	45.4	7.0	9.0	
716		21.6	25 3	4.9	196.8	5.8	6.6	1346, 2519
721		22.7	3 4	24.2	150.9	7.0	9.0	2739, 2746
725		23.2	-1 11	12.7	87.5	5.8	11.0	
730		25.1	16 59	9.8	141.8	6.5	7.0	2747
14 ^I		25.6	- 0 23	52.7	359.2	2.0	6.8	1100, 2748
738		28.3	9 51	4.2	40.3	4.0	6.0	2749
747		29.0	- 6 6	35.8	223.1	5.6	6.5	2759
16 ^I		29.2	- 5 30	52.8	92.0	4.8	6.1	
~~749~~		~~29.9~~						

Quality

A 5 5

A

A

A

B

φ

.5 5

5 5

1 5

Σ M.	α ¹⁸⁷⁵	δ	Dist.	Pos.	Magn.	Magn.
750	5 29.3 - 4 27	4.3	59.2	6.0	8.0	
752	29.4 - 6 1	11.3	142.2	3.2	7.3	
749	27.9 26 53	0.7	23.4	7.1	7.2	2859, 2994, ✓
753	30.4 30 26	12.3	268.0	5.8	8.0	
754	30.5 - 6 10	5.2	287.6	6.5	9.7	
762	32.5 - 2 41	11.0	236.5	4.1	10.3	1119 ✓
764	33.3 29 27	25.9	13.8	6.3	6.8	1125, 2520 ✓
766	33.5 15 18	9.6	276.1	6.8	8.0	
774	34.6 - 2 2	2.3	153.3	2.0	5.7	
7115	36.6 62 45	1.7	35.6	6.7	7.8	1119, 2860, 2995, ✓
785	38.3 25 53	13.8	348.6	6.7	7.7	
780	38.4 65 43	3.8	103.6	6.7	7.9	
790	39.8 - 4 17	6.8	89.1	7.0	9.3	
796	41.9 31 46	3.6	61.2	6.9	8.0	2631, 2867, 2968, ✓
816	48.2 5 51	4.3	289.3	6.2	8.7	
838	58.6 0 53	40.1	326.6	6.7	8.8	
845	6 2.0 48 44	8.0	353.1	5.2	6.4	1330, 2731, ✓
855	2.2 2 31	29.3	113.2	5.8	6.8	1120, 2732, ✓
867	4.3 17 26	2.2 156.3	156.3	7.0	8.5	2941, ✓
872	7.1 36 12	11.0	217.4	6.0	7.0	1331 ✓
899	15.5 17 38	2.4	20.3	7.0	8.0	
3116	15.7 - 11 43	4.5	19.2	6.2	10.4	
896	15.8 + 57 55	19.9	82.3	8.3	8.7	2617, ✓
900	17.1 4 40	13.9	25.9	4.0	6.7	1101, 1332, 2733, ✓
903	18.4 - 12 54	23.3	294.3	7.0	11.0	
908	20.4 - 7 25	21.0	297.5	6.7	9.0	
919	21.2 + 53 55	8.5	357.0	9.5	9.5	2715, 2716, ✓
918	22.7 - 6 56	7.3	130.0	5.0	5.5	
918	23.8 52 33	4.4	322.4	6.7	7.7	
921	24.2 11 22	16.3	3.8	6.0	8.2	1121, 2667, ✓
924	25.0 17 52	20.0	209.8	6.0	6.9	2714, ✓
925	27.4 + 67 26	3.4	92.7	7.8	10.3	2668, ✓

Quality

1.1

5 5

5

4 1 ~~1~~

1 5

5 5

A

⊕ 1 1 5

5

5 5

Σ	No.	α ¹⁸⁷⁵	δ	Dist.	Pos.	Magn.	Magn.	
938	6	27.9	7 41	10.3	206.7	7.0	11.2	
940		28.8	38 33	10.1	293.12	8.0	10.0	2861,
941		29.9	41 42	2.0	77.6	7.0	8.0	1347, 2942,
950		33.8	10 1	2.8	208.7	6.0	8.8	1348, 1121,
948		35.1	59 35	1.5	153.7	5.2	6.1	2996,
958		38.7	55 50	5.1	256.7	6.0	6.0	2716
971		42.3	-13 19	1.8	331.6	8.2	8.5	2717,
974		44.4	39 1	22.3	222.6	6.7	10.0	
978		47.0	38 5	14.8	98.9	7.0	9.8	
973		47.5	75 24	11.9	26.7	6.6	7.6	1292, 2718,
982		47.7	13 21	5.7	174.9	5.4	7.7	1293, 2719,
997		50.2	-13 53	3.2	343.5	4.7	8.0	
1006		55.6	62 46	30.6	71.6	7.0	8.0	2720,
1009		55.8	52 57	2.9	159.2	6.7	6.8	2869,
1019		59.6	-10 29	37.8	294.0	7.0	9.5	
1022	7	1.2	36 45	5.8	129.0	7.0	10.2	
1032		4.5	48 44	2.5	100.5	7.0	10.3	
1061		10.8	16 46	9.6	30.9	3.2	10.3	
1055		11.1	60 8	2.4	344.1	6.0	10.5	
1064		11.3	-11 50	15.2	237.7	7.0	9.7	
1065		11.8	50 23	15.0	253.4	6.6	6.8	1294
1062		11.8	50 23	15.0	253.4	6.6	6.8	1295
1066		12.5	22 12	7.1	196.9	3.2	8.2	1296
1083		18.2	20 45	6.2	42.6	6.8	7.8	1297
1090		19.4	18 48	6.1	97.4	7.0	8.0	1349, 2669, 2721,
1088		19.1	14 23	11.1	195.1	7.0	9.0	1361, 2670
1097		21.9	-11 19	20.2	312.1	6.5	8.7	2671, 2722,
1104		23.4	-14 44	2.4	292.4	6.7	8.3	
1103		23.8	5 31	4.3	244.5	7.0	8.5	1362, 2723,
1108		25.3	23 8	11.5	179.2	6.7	8.5	2841,

Quality

3 2

5 2

5

4 5

4 5

A

B

5 5 5

A 4 5

5

³
B 4

Σ	No.	¹⁸⁷⁵ A.L.	Dec.	Dist.	Pos.	Magn.	Magn.	
1110	7	26.6	32 9	4.4	262.5	27	3.7	1363, 2842,
1114	7	27.0 + 9.36	65	53.6	8.5	9.0	2618.	
1120	7	30.2 - 14 13	19.6	35.4	6.5	9.5		
1127		35.7	64 22	5.2	340.4	6.2	8.0	2724,
5 ^{II}		37.7	28 19	203.8	73.9	2.0	11.0	
1135		39.4	33 42	22.6	211.7	4.9	11.0	
1138		39.7 - 14 23	16.5	339.2	6.2	7.0	2521	
1140		40.9	18 39	6.2	273.9	6.8	8.5	2725,
1143		41.7	5 48	9.3	152.0	7.0	Var.	
1146		42.1 - 11 53	3.3	17.5	5.3	7.4	2751,	
1171		53.7	23 54	2.8	338.6	6.2	10.7	
1177		57.9	27 55	3.5	354.8	6.5	7.4	1330, 2843, 2871,
1182		58.7	6 13	4.4	72.6	7.0	9.0	2726,
1183		59.9 - 8 53	31.0	326.3	5.5	7.8	2752,	
1190	8	2.3 - 2 37	31.6	104.2	6.0	11.7		
1192		5.2	60 52	2.9	256.1	6.8	10.5	
1193		6.6	72 49	44.4	85.2	6.0	9.0	2844,
1196		4.9	15 2	1.1	57.6	5.0	13.7	2858, 2976, 2997,
1223		19.3	27 21	4.6	212.0	6.0	6.5	1299, 2522,
1224		19.4	24 56	5.8	37.3	6.0	7.1	1300,
1234		23.5	55 46	20.8	71.3	7.0	8.3	2523
1255		33.1	6 15	26.6	31.1	7.0	8.0	1351, 1364, 2603
1254		33.3	20 5	20.5	53.9	6.5	9.0	1352, 2845,
1268		39.0	29 13	30.5	307.1	4.4	6.5	1298, 2604,
1270		39.1 - 2 8	4.7	259.1	6.6	7.6	2870,	
1273		40.2	6 54	3.2	195.6	3.8	7.8	1333, 2605, 2872,
1274		40.9	38 48	8.9	40.8	7.0	8.7	1334, 2606,
1282		42.9	35 30	3.4	277.4	7.0	7.0	1353, 2873, 3319,
1283		42.9	15 18	16.5	123.3	7.0	8.0	1354, 2734,

Quality
 . 1 3

(?) (5?) 3

5 5 1 1 ?

5 5 1

5 1 (?)

5 5

3
 0 2 3

5 5

. 3 3

A 5

Σ	No.	Q	R	S	Dist.	Pos.	Magn.	Magn.
	1298	8	53.7	32 44	4.6	137.8	6.1	8.2 2846,
	1306		59.5	67 39	4.6	263.6	5.0	8.2 2847, 2877, 3320,
	1311	9	0.4	23 27	7.2	200.5	6.7	7.1 1355, 2878,
	1315		3.0	62 10	24.9	25.5	7.0	7.2 1356, 2735,
	1334		10.9	37 20	2.7	240.2	4.0	6.7 2874, 3037,
	1340		14.0	50 3	6.1	319.4	6.5	8.3 3321,
	1344		15.5	39 40	3.6	106.6	8.5	4.2 2736, 2737,
	1347		16.6	4 5	21.3	310.5	6.7	8.0 1335, 2879, 2878
	1346		16.7	54 32	5.7	311.0	7.0	8.0 1336, 2880,
	1349		20.8	68 3	19.2	164.9	6.8	8.0 1337, 2881,
	1351		21.7	63 36	22.8	272.4	3.8	9.0 2882, 3332,
	1357		22.0	-9 27	7.5	51.4	7.0	10.5 .
	1365		25.3	2 2	3.1	162.8	7.0	8.0 2921,
	1362		26.0	73 38	4.9	137.3	7.0	7.0 3323,
	1368		27.5	53 50	31.3	219.2	8.0	9.5 2875,
	1369		27.7	40 32	24.7	147.4	7.0	8.0 1357, 2607
	1374		33.5	39 31	3.3	274.7	7.0	8.3 2922,
	1399		50.2	20 20	30.1	175.1	6.8	7.8 2919,
	1402		56.4	56 3	21.1	96.0	6.8	8.0 2920, 3324,
	6 ^{II}	10	1.7	12 35	176.9	306.6	1.5	8.4 1301, 2608
	1416		6.1	-15 28	11.3	275.8	6.7	8.5 3333,
	1415		7.8	71 41	16.7	167.1	6.1	7.0 1302, 2571, 2607
	18 ^I		9.6	24 6	314.4	343.1	3.8	6.0 1303, 2610
	1424		13.1	20 29	2.5	103.4	2.0	3.5 1368, 2619, 2876, 2923,
	1441		24.6	-6 58	2.6	169.3	6.4	9.9
	1448		27.7	22 14	10.9	258.7	7.0	9.0 1358, 2611,
	1450		28.4	9 16	2.4	161.1	6.0	8.7
	1466		36.8	5 25	6.7	240.5	6.1	7.2 1339, 2612
	1469		39.5	66 9	10.8	322.6	7.0	10.0 1678

divality

~~A~~ ¹ 5 1

~~5~~
A

A 5

1

~~2~~ 1 3
. 1 5 3

. 1 5

2 3

1 5

~~5~~
A 5

5 5

A 4 1

5 5 5

A 5 5

2 1 3 3

5 5

5

Σ	No.	Alt.	Dec.	Dist.	Pos.	Magn.	Magn.	
		^{h.} _{m.}	[°] _'					
	1474	10 41.5	-14 36	71.7	22.2	6.9	8.0	3325,
	1487	48.8	25 26	6.2	102.8	5.0	7.0	407, 2615
	1495	52.0	59 35	34.5	38.2	6.0	8.3	(15) 1679, 2613, 3326,
	1516	11 7.2	74 9	9.9	298.7	7.0	7.5	1304, 1674, 1869, 2614, 3327,
	1520	8.8	53 26	13.0	345.3	6.5	7.8	1656, 1675,
	1524	11.8	33 46	7.1	146.6	3.7	10.1	1657
	1527	12.4	14 58	3.9	10.2	6.9	8.1	1658, 3359
	1529	13.0	-0 58	9.3	250.9	7.0	8.0	1360, 2893, 2894
	1536	17.3	11 13	2.2	92.4	3.9	7.1	2924,
	1540	20.5	3 42	29.6	150.0	6.3	7.3	1305 2894,
	1542	21.0	45 15	2.5	265.0	7.0	10.5	(2.) 1680.
	19 ^I	21.5	3 33	94.8	169.6	5.0	7.0	1305, 2616
	1543	22.4	40 1	5.4	10.7	5.2	8.2	1681
	1544	23.8	60 22	12.5	89.5	7.0	8.0	1659
	1547	25.2	15 4	15.3	319.9	6.4	8.4	1774, 2895,
	1552	28.1	17 30	3.0	209.4	6.0	7.3	1775, 2943, 3328,
	1553	29.8	28 28	1.2	339.4	6.4	6.8	12862, 2945, 3795,
	1559	31.7	65 1	2.1	322.7	6.7	7.7	1895, 2944,
	1560	31.9	-1 43	5.1	280.6	6.0	10.2	1776, 2896,
	1561	32.2	45 46	10.5	266.5	5.9	8.0	1896,
	1565	33.1	19 43	21.5	304.1	7.0	8.0,	1892
	7 ^{II}	41.5	20 55	74.3	355.5	4.7	8.4	1893,
	1573	42.4	68 0	11.1	177.9	6.6	7.6	1897,
	1575	45.5	9 30	30.6	209.8	7.0	8.0	1894
	1579	48.4	47 11	3.7	36.5	6.0	8.3	1898
	20 ^I	48.6	47 10	62.9	113.8	6.1	6.5	1306, 1898
	1590	54.9	71 32	5.1	235.9	7.0	10.0	3329,
	1596	57.9	22 10	3.7	240.6	6.0	7.5	1585

Quality

3 5

1 5 5

5 5 1 5 1

5 5

5 2

A 5

1

5 5

1 4

1 1 4 2
1 4 1

Σ	No.	RA ¹⁸⁷⁵	Dec	Dist	Pos.	Magn.	Magn.	
	1599	11 59.2	69 28	10.2	167.2	7.0	10.0	3330,
	1600	59.3	52 38	7.6	93.2	7.0	8.0	2940,
	1603	12 1.8	56 10	22.4	80.6	6.9	7.3	1538, 2950,
	1604	3.4 - 11	6	12.0	93.3	6.5	9.0	1539, 3334,
	1615	7.8	33 30	26.9	88.3	6.0	8.2	1540
	1622	9.7	41 20	11.4	259.6	5.7	8.0	1541
	1625	10.2	80 50	14.3	218.8	6.5	7.0	(1) 1542, 3331,
	1624	10.4	40 18	6.2	150.0	6.8	9.7	2937,
	1627	11.6 - 3	13	20.1	196.3	5.9	6.4	1630
	1632	14.0	38 36	10.1	193.4	6.5	9.7	1631
	1636	16.0	6 0	19.3	336.7	6.2	9.0	1632
	1645	21.6	45 28	10.4	161.5	7.0	7.5	1633
	21 ^I	22.6	26 36	145.4	250.7	4.8	6.0	1634
	1657	28.7	19 5	20.4	271.9	4.7	6.2	1635
	1669	34.8 - 12	17	5.4	298.9	6.5	6.5	1636
	1670	35.3 - 0	45	2.4	277.9	3.0	3.0	1637
	1677	38.7 - 3	10	15.9	348.4	7.0	8.0	1638
	1678	39.3	15 3	32.6	211.6	6.3	7.0	1543
	1682	44.4 - 9	40	33.7	308.8	6.7	9.0	(1) 1544, 2958,
	1685	45.7	19 51	15.8	200.8	6.8	7.3	1545
	23 ^I	46.1	17 46	194.8	48.8	5.3	6.1	1639
	1694	48.3	84 4	21.8	327.2	4.9	5.4	2753
	1689	49.3	12 10	28.7	198.4	6.7	9.0	1457, 1546
	1692	50.2	39 0	19.9	227.3	3.2	5.7	1547
	1695	50.8	54 46	3.3	289.1	6.3	8.2	1548, 2948,
	1704	53.1 - 3	8	21.3	53.0	6.0	11.2	2959,
	1724	13 3.4 - 4	52	7.1	344.0	4.0	9.0	1498, 2960,
	1727	3.8	32 0	7.3	335.0	8.7	10.2	2949,

Quality

3 5-

5 5-

1 5-

1 5-

5 5-

4 3

2 5-

Σ	No.	α	δ	Dist.	Pos.	Magn.	Magn.	
	$\overset{I}{24}$	$\overset{m}{13}$	$\overset{m}{41}$	$\overset{m}{39}$	$\overset{m}{10}$	290.0	297.5	5.5 5.9 1499
	$\overset{I}{25}$	8.8	67	57		178.8	296.7	5.9 6.3 1500
	1744	19.0	55	36	14.4	147.6	2.1 4.2	860, 1676 ⁵ ✓
	1750	23.8	-5	48	30.1	16.1	6.2 11.5	⁽²⁾ 1458
	1755	26.8	37	26	43	133.8	7.0 7.9	1549
	1764	31.6	3	2	16.0	31.7	7.0 8.7	1550
	1772	34.7	20	36	4.8	148.7	6.2 9.1	1551, 3312✓
	1775	36.9	-3	37	27.8	335.7	7.0 9.7	⁽¹⁾ 1443, 1552✓
	1777	37.1	4	11	3.4	235.4	5.8 8.2	⁽¹⁾ 1677
	1788	48.3	-7	27	2.4	54.0	6.7 7.9	1490, 2961✓
	1793	53.3	26	24	4.4	242.3	7.0 8.0	3313✓
	1795	54.3	53	43	7.6	3.2	7.0 10.2	1459
	1821	14	8.9	52	23	12.6	237.7	5.1 7.2 1001, 1002, 1838, 1840✓
	1825	10.8	20	42	3.4	185.7	6.8 8.5	1593, 1839✓
	3124	11.9	51	57	38.1	33.2	4.9 7.5	1001, 1002, 1840✓
	1831	12.2	57	17	6.0	142.8	6.3 9.0	1003, 1841✓
	1833	16.0	-7	11	4.9	166.7	7.0 7.0	1465, 1491✓
	1835	17.2	8	59	6.1	186.5	5.5 6.8	1594✓
	1840	17.9	68	16	27.4	222.4	6.5 9.2	1004, ⁽¹⁾ 1466, 2090✓
	1846	21.9	-1	39	3.7	108.8	5.2 9.7	⁽²⁾ 1501, 1870✓
	1850	22.9	28	50	25.7	262.2	6.1 6.7	1502, 1777✓
	1864	34.8	16	58	5.8	99.2	4.9 6.0	1503, 1871✓
	1872	37.3	58	33	7.5	38.4	7.0 8.0	1005, 1836, 1872✓
	1878	38.9	61	44	3.1	336.4	7.0 9.2	1050, 1006, 1873✓
	1877	39.5	27	36	2.6	321.0	3.0 6.3	⁽²⁾ 1434, ⁽²⁾ 1504, 1595, 2954✓
	1881	40.7	1	31	3.6	357.9	7.0 9.3	1596
	1888	45.5	19	37	7.2	334.2	4.7 6.6	1435, 1467, 1555, 2091, 3187✓

Quality

3499, 3509,

2 4

1 5

4 1

5 5 5 5

4 5

5 5 5

5 5

5 5

5, 1, 5,

1, 2

5, 5,

4, 5

5, 4, 5

5-4 5

$\frac{1}{B}$ 113

$\frac{1}{B}$ 4111 (?)
3

Σ	No.	RA ¹⁸⁷⁵	Dec.	Dist.	Pos.	Magn.	Magn.	
	1890	14 ^h 45 ^m 49	14	3.7	44.1	5.8	6.5	1556
	1894	52.2 - 10	36	19.5	38.8	6.0	10.2	1598, 3359
	1904	57.8 5	57	9.6	346.4	7.0	7.0	1468, 1557
	1909	59.6 48	10	2.9	234.1	5.2	6.1	1558, 1874, 2955
	1910	15 1.5 9	42	3.8	209.2	7.0	7.0	1469, 1559
	1916	5.2 39	29	10.0	329.6	7.0	9.5	1560
	1919	7.2 19	47	24.8	10.2	6.1	7.0	1436, 1470, 1561
	1921	7.3 39	6	30.3	283.7	7.0	7.2	1471, 1562
	27 ^I	10.5 33	47	104.9	79.0	3.2	7.4	1563
	1931	12.6 10	50	13.1	172.5	6.2	7.6	1564
	1930	12.8 2	15	10.1	41.0	5.0	10.0	1565, 1837
	28 ^I	19.7 37	47	108.5	171.9	4.0	1938	1640, 2321
	1950	24.7 25	57	3.2	93.2	6.7	8.2	1597, 1842, 2956, 3378
	1954	28.7 10	57	2.7	197.3	3.0	4.0	1875
	1962	31.9 - 8	20	11.8	187.1	6.3	6.4	1437, 1472, 1641
	1964	33.5 36	38	15.4	86.1	6.8	7.3	1566
	1965	34.6 37	1	6.0	300.9	4.1	5.0	1642
	1972	36.2 80	52	30.2	83.0	6.1	7.0	1438, 1520
	1970	40.3 15	47	30.6	265.0	3.0	9.2	1843
	1984	47.8 53	16	6.5	273.8	6.2	8.5	1844
	1985	49.6 - 1	47	5.4	326.6	7.0	8.1	2092
	2003	58.1 11	45	14.0	171.2	7.0	11.0	1845, 3284
	2007	16 0.3 13	39	32.0	328.2	6.5	8.0	1429, 1505, 1574
	2010	2.3 17	23	31.2	9.6	5.0	6.0	1417, 1473, 1506, 1575, 3170, 3171, 3207, 3208, 3209, 3210
	2021	7.5 13	51	3.2	316.7	6.7	6.9	1507, 1576, 2987
	2022	7.7 26	59	2.8	129.5	6.2	9.8	1577, 3360
	29 ^I	17.6 34	2	371.9	165.6	4.8	5.1	1578, 2044

Quality

1 5-

5 5-

2 5-4

5 5-

A 5 5- 5-

5-4

1, 4

5-5-

3 1 1

⁵
A 5 4

A 5 5-

4 1

.1 5-5-

A 3213, 3214, 3215,

3 4 2

1 1

5 5

No.	α ^h	δ ^m	Dec.	Dist.	Pos.	Magn.	Magn.	
2048	16	21.9	-7° 51'	4.7	302.7	6.3	9.0	1474, 1579, 2102, 3361, ⁽²⁾
2063	28.1	45	52	16.2	194.3	5.7	8.2	1580, 3279,
30 ^I	33.1	53	11	90.4	14.7	5.0	5.0	1508, 1581, 3293, ⁽²⁾
2078	33.3	53	9	3.7	116.5	5.0	6.0	1582, 1643
31 ^I	34.4	4	27	69.8	230.1	6.0	7.0	1475, 1599
2082	35.3	49	10	22.4	92.4	4.0	10.7	1876, 2041,
2095	40.0	28	34	5.0	163.9	7.0	9.0	1662, 2042
2096	40.8	2	17	22.3	92.6	6.0	9.3	1600, 2043,
2101	41.2	35	53	4.3	60.2	6.3	9.0	1663, 3294,
2104	44.0	36	10	5.9	19.6	6.2	8.0	1664, 3295,
2103	44.1	13	27	5.7	36.6	5.2	10.0	1665, 1877, 3362,
2109	48.4	21	25	5.9	314.8	7.0	10.2	1666, 3577,
32 ^I	54.2	47	42	114.6	263.4	7.0	7.1	1644, 1878, 2045, 2119 ⁽¹⁾
2115	55.8	15	6	19.1	238.4	5.7	10.5	1667, 1879
33 ^I	58.0	13	46	292.5	115.4	5.8	6.3	1846, 2046,
2120	59.5	28	16	38	11.4	6.4	9.2	1847, 2120
2122	17 0.3	-1	29	20.1	280.5	6.5	8.7	1848,
2130	2.8	54	38	3.2	205.1	5.0	5.1	1007, 1849, 2047,
2142	8.4	49	55	53	116.3	6.2	10.0	1008, 1850, 2121
2140	8.9	14	32	4.6	118.5	3.0	6.1	1058, 1851,
3127	9.8	24	59	26.1	173.7	3.0	8.1	1612, 1059, 1852,
2155	14.6	60	51	9.6	115.6	6.2	9.5	1613, 2048
2160	19.0	15	44	4.1	61.9	5.5	10.0	1880, 3578,
2161	19.2	37	18	3.6	307.2	4.0	5.1	1509, 2049, 2962,
2165	21.3	29	33	6.7	45.7	7.0	8.5	1603
2166	22.1	11	31	27.5	283.2	5.6	7.4	1531, 1604, 2050,
2178	24.9	35	4	10.6	130.1	7.0	8.6	1605, 3296,

Σ	No.	α	δ	Dist	Pos.	Magn.	Magn.	
2180	17 ¹⁸⁷⁵	25.9	50 58	3.2	265.3	7.0	7.2	1009, 1853, 2093, 2963,
2184		28.6	13 15	21.4	76.8	6.3	11.2	1854,
34 ^I		28.6	9 40	41.1	191.4	5.6	7.3	⁽¹⁾ 1532, 1606, 1853, 2104, 3188,
2185		28.9	6 7	27.5	5.5	7.0	10.0	1856,
35 ^I		29.7	55 16	61.7	313.0	4.6	4.6	⁽¹⁾ 1010, 1568, 1857,
2190		30.8	21 5	10.2	33.2	6.0	9.5	⁽¹⁾ 1533, ⁽¹⁾ 1569, 1794
2191		33.1	-4 53	26.5	268.2	7.0	8.0	1447, 1645
2194		35.9	24 35	16.1	9.4	6.2	8.5	1493, 1570
2198		36.6	26 34	7.6	24.8	7.0	11.0	1923,
2202		38.4	2 38	20.5	94.1	5.5	5.8	1510, 1795
2204		39.4	-13 14	14.3	23.6	7.0	7.2	1494, 2051, 2132, 3693,
2218		39.5	63 39	2.5	356.7	6.5	7.7	1511, 1796,
2220		41.6	27 49	29.9	241.4	3.8	9.5	1571, 2052,
2224		41.9	39 25	7.5	352.1	6.9	10.1	1881,
2241		44.6	72 13	30.9	15.1	4.0	5.2	1495, 1512
2232		45.0	25 18	6.5	142.9	7.0	8.5	1534
2245		51.0	18 21	2.6	294.0	7.0	7.0	1797, 2964,
2259		54.1	30 3	19.4	278.6	7.0	8.0	1513, 1572
2264		56.2	21 35	6.1	261.8	4.9	4.9	1476, 1521
2273		57.3	64 9	20.5	284.7	6.8	7.3	1477, 1522
2272		59.1	2 33	4.0	148.2	4.1	6.1	⁽²⁾ 1448, ⁽²⁾ 1478, ⁽²⁾ 1523, 1798
2276		59.9	12 2	6.8	257.9	6.0	7.0	1449, 1535
2277	18	0.0	48 29	27.6	117.9	6.3	8.2	819, 1799,
2278		0.7	56 26	38.9	22.5	6.8	7.3	820, 1573, 1693
2280		2.6	26 5	13.8	182.9	5.9	5.9	821, 1450, 2053,
2302		7.3	75 48	5.8	246.1	7.0	10.0	1536, 3288,
2296		9.0	-3 25	3.3	7.0	6.7	10.3	822, 928

Quality

ϕ

B

A

ϕ

Σ No.	RA ¹⁸⁷⁵ h m	Dec ° ' "	Dist	Pos.	Magn.	Magn.	
2308	18 9.4	79 59	20.6	235.6	5.4	6.1	828, 1924
2303	13.4 - 8 1		3.2	216.4	6.7	9.2	~~821~~ 1451, 937,
8 ^{II}	14.8 - 2 55		112.7	77.2	3.3	12.0	929
2310	15.3 22 46		5.0	233.8	7.0	10.3	1051, 1858, 1925
2316	20.8 0 6		3.9	314.1	5.5	7.8	892, 938, 1882,
2323	22.0 58 44		3.1	5.9	4.7	7.7	~~879~~ 1778, 2111, 3648,
36 ^I	22.1 58 45		89.0	21.7	4.7	7.1	879
2322	23.6 3 58		19.6	170.5	5.7	11.0	1528, 1926,
2325	24.6 -10 52		12.4	257.9	6.0	9.3	1883, 2054,
2342	29.4 4 50		26.9	12.0	5.7	8.5	939, 1801, 1927,
2348	30.9 52 15		25.7	272.7	5.9	8.1	859, 1779, 1802,
2349	32.0 33 21		7.3	205.5	5.5	10.7	940, 1884 2123
9 ^{II}	32.7 38 40		43.0	137.8	1.0	10.5	1885,
2367	36.5 30 11		0.4	68.4	7.0	7.5	
2372	37.8 34 39		25.1	84.2	6.7	8.2	878, 1886
2380	39.2 44 51		25.8	10.2	6.7	8.2	808, 1887
2375	39.2 5 21		2.2	108.1	6.2	6.6	⁽¹⁾ 1694, 908, 1662, 1928, 2011, 3649,
2379	39.9 - 1 6		13.2	121.5	5.6	7.4	909
2382	40.2 39 33		3.0	26.1	4.6	6.3	1695, 1780
2383	40.2 39 29		2.6	155.2	4.9	5.2	1695 ⁹¹²
38 ^I	40.5 37 28		43.7	149.7	4.2	5.5	913, 1781, 1859,
2391	42.1 - 6 8		37.9	332.6	6.2	9.0	910, 1888,
2401	43.7 21 0		4.1	37.6	7.0	8.6	1860, 2055,
2404	44.9 10 50		3.5	183.2	5.8	7.0	914, 1861,
39 ^I	45.4 33 13		45.8	149.8	3.0	6.7	915, 1862,
2411	46.6 14 25		13.5	95.7	7.0	9.8	1479, 1863,
2420	49.3 59 15		30.3	346.2	4.6	7.6	916, 1864

Quality
 B^2

Σ No.	ϕ	δ	α	δ	α	δ	α	δ	α
2415	18	49.5	20	28	2.0	298.7	6.6	8.5	917, 1865, 2012, 3661,
2417		50.2	4	1	21.6	103.8	4.0	4.2	918, 1889,
2424		53.1	13	29	18.7	241.6	5.7	9.2	1782, 1803,
2425		53.6	-8	16	32.1	183.2	6.9	7.7	919 1452, 1452
2426		54.2	12	45	16.9	79.8	6.8	8.2	1783
2431		55.0	40	29	18.8	236.4	6.9	9.2	941, 1784, 2056,
2440		56.0	62	14	16.6	123.4	6.5	9.0	1890,
2452		57.4	75	37	5.7	219.8	6.7	7.5	922
2450		59.1	52	3	4.9	305.1	6.9	9.6	942, 1891,
2445		59.3	23	8	12.1	263.5	6.3	8.0	1514, 1608, 223, 1905,
2446		59.7	6	22	10.1	154.4	6.3	8.3	943, 1929,
2447		59.9	-1	31	13.8	345.0	6.7	9.1	985, 1906,
2461	19	2.6	32	19	3.7	330.6	5.7	9.8	986, 1808, 1907
2470		3.7	34	32	12.9	271.6	6.7	8.2	987, 1809, 3694,
2474		4.4	34	25	17.3	258.7	6.7	8.0	987, 1809, 3694,
2476		5.5	2	23	31.4	214.7	6.2	11.0	1908, 1930
2486		8.8	49	36	10.5	224.8	6.0	6.5	972, 1441, 1810,
2487		9.6	38	57	27.9	85.0	4.0	8.1	973, 1811,
2489		10.7	14	19	8.2	349.3	6.5	9.5	988, 1812,
2492		12.1	0	49	3.4	11.2	5.5	9.5	(2) 1668, 1909
2496		12.2	49	51	2.4	77.6	7.0	10.8	1945, 2007,
40 ^I		12.3	0	9	423.1	136.1	6.0	6.2	974, 1453, 1609
2497		13.6	5	19	30.0	358.0	6.9	8.0	975, 1813,
2504		15.6	18	56	8.9	288.3	6.4	8.1	1454, 3684,
41 ^I		19.0	16	43	336.2	79.0	5.9	6.7	976, 1814,
2521		21.0	19	40	22.6	43.6	5.5	10.3	1875, 1946, 3301,
42 ^I		23.6	24	28	396.2	27.7	4.4	5.7	989, 1876,

Quality

A

A

A

A

Σ	No.	$R.A.$ h^m	$Dec.$ $^{\circ}$	Dist.	Pos.	Magn.	Magn.
	2532	19 23.6	2 38	34.9	5.0	6.0	10.2, 1817, 1947, 3302,
	2535	24.7	- 2 21	27.8	297.7	7.0	10.0
^I	43	25.7	27 42	34.3	55.7	3.0	5.3 990, 188,
	2543	30.0	5 44	12.7	157.8	7.0	9.9 1732, 1819, 3685,
^I	44	31.1	59 51	76.6	287.1	5.2	7.2 991
	2545	31.7	- 10 26	3.5	315.2	6.2	8.1 1455, 1733,
^I	45	36.4	- 8 35	96.5	146.7	6.5	6.9 1610, 3770,
	2562	36.8	8 6	27.2	252.6	6.5	8.2 932, 1734,
	2573	38.3	60 12	18.1	29.7	6.2	8.5 933
^I	46	38.5	50 15	37.3	136.3	5.1	5.3 934, 1736,
	2578	40.9	35 47	14.8	126.8	6.6	7.4 969, 1737
	2580	41.5	33 28	25.8	73.4	5.1	8.1 970, 1948
	2583	42.9	11 30	1.5	120.6	6.0	6.8 956
	2585	43.4	18 50	8.5	312.8	5.7	8.8 957, 1949,
^{II}	10	44.6	8 32	152.4	322.1	1.5	10.2
	2587	45.1	3 45	4.1	98.6	6.5	9.2 958, 1456
^I	48	47.9	19 59	42.2	147.9	6.7	6.8 963, 2282,
	2594	48.1	- 8 34	35.6	171.5	5.2	6.2 971, 2383
	2603	48.5	69 56	2.8	354.5	4.0	7.6 959, 3731,
	2597	48.6	- 7 5	1.9	92.1	6.9	8.0 3660,
	2604	51.2	63 49	27.8	184.5	6.5	8.7 960, 1785
	2605	52.4	52 6	3.3	184.6	5.0	7.5 961, 3732,
	2609	54.0	37 46	2.4	29.1	7.0	8.1 1786, 3740,
	2613	55.5	10 23	4.7	350.7	7.0	7.2
	2616	57.1	14 14	3.3	265.9	6.8	9.7 962
	2625	59.6	- 13 15	13.3	11.9	7.0	10.8
	2628	20 1.7	9 2	4.5	349.0	6.1	8.2 1030, 1899,
	2640	3.2	63 30	4.9	27.3	6.0	9.9 1031, 1900

Invalidity

A

B

Σ	No.	α	δ	1875	Dec.	Dist.	Pos.	Magn.	Magn.	
	2635	20	4.2	8 5	7.3	78.5	7.0	10.5	✓	866, 1032,
	2637		4.4	20 32	11.4	326.7	6.0	8.3		1033, 2018, 3688,
	2643		6.0	- 3 25	3.2	70.6	7.0	9.5		
	2646		7.6	- 6 25	24.7	51.6	7.0	8.8		1496
	2653		8.4	23 52	2.5	255.4	7.0	10.1		
	2654		9.3	- 3 53	13.9	233.9	6.2	7.7		1902,
	2656		9.4	7 28	9.9	232.3	7.0	11.7		
	50 ^I		9.6	46 22	337.8	323.7	3.7	5.0	✓	1029
	2658		10.2	52 43	5.5	127.0	7.0	9.1		
	51 ^I		10.8	- 12 55	374.5	291.5	3.2	4.2		1515, 1611
	2675		13.2	77 18	7.4	124.1	4.0	8.0		
	2666		13.5	40 21	2.7	242.0	6.5	8.7		1061,
	2665		13.7	13 58	3.1	17.2	6.5	9.2	✓	1060
	52 ^I		13.7	- 15 11	205.0	267.3	2.5	6.0		1628, 1687
	2671		15.3	55 0	3.0	341.1	6.0	7.4		3741,
	2668		15.5	39 1	3.3	293.6	7.0	9.2		1062
	2677		18.2	0 38	33.2	28.8	6.0	10.5		1932
	2694		21.5	80 9	3.7	345.9	6.5	10.5		
	2687		23.5	56 14	26.2	119.0	6.5	8.3		1787, 2030,
	2690		25.2	10 51	14.2	256.3	7.0	7.2		1063, 1933,
	2700		29.7	32 4	24.0	286.2	6.5	8.3		2035, 2323
	2704		31.6	14 9	32.5	343.8	3.0	11.0		1934, 2036,
	53 ^I		32.5	31 7	178.1	174.8	6.0	6.1		1037, 1629, 1653
	2708		33.8	38 11	11.3	351.7	7.0	8.7		1064, 1788, 2065.
	2716		36.0	31 50	2.7	49.4	6.0	8.1		1789, 2066
	2726		40.5	30 14	6.6	57.2	4.0	9.2		1790, 2067
	2727		41.1	15 39	11.9	273.8	4.0	5.0		1688, 2068

Quality

Σ	No.	R.A. ¹⁸⁷⁵	Dec.	Dist.	Pos.	Magn.	Magn.	Locality
	2732	20 44.8	51 27	4.0	73.8	67	8.7	1935, 2069
	2735	49.4	4 4	2.1	289.7	6.2	7.7	1080, 2004, 2070, 3742,
	2741	54.5	49 58	1.9	35.8	6.0	7.3	1081, 2005, 3743,
	2743	55.5	47 2	20.2	352.4	4.7	9.0	1936, 2037, 2073
	2745	57.3	- 6 18	2.7	189.6	5.6	7.7	
	2751	58.5	56 9	1.9	344.1	6.0	7.0	
	2752	21 0.0	- 14 27	5.2	145.2	6.7	10.7	2031,
	2755	0.8	- 0 41	23.9	84.8	6.7	10.3	1937
	2758	0.9	38 6	15.3	89.4	5.3	5.9	898, 1867
	2760	1.5	33 37	13.5	223.3	7.3	8.1	829
	2762	3.3	29 43	29.8	315.6	6.0	8.0	1102, 1617, 3662,
	54 ^I	4.4	9 36	36.2	153.3	4.2	5.7	1103, 1938.
	2769	5.0	21 57	17.8	300.8	6.5	7.5	1104, 1939,
	2770	5.4	- 3 38	7.2	247.1	7.0	10.5	2038,
	2777	8.4	9 30	27.4	38.8	4.1	10.2	1105, 2032, 2039
	2786	13.6	8 57	2.5	183.6	7.0	8.1	1105, 3663,
	2787	15.2	1 29	22.7	19.5	7.0	8.3	1940,
	2790	15.7	58 6	4.5	46.6	5.6	9.9	1618, 2058
	11 ^I	16.2	19 15	36.2	311.2	4.5	8.6	1619
	55 ^I	18.6	36 50	36.54	302.5	6.0	6.6	1106, 1620, 2059, 2075
	2793	18.9	8 51	26.5	242.2	7.0	8.7	1107, 2060
	2797	20.7	13 10	3.2	213.3	6.7	8.2	1621, 1108, 2076
	2806	26.9	70 0	13.6	250.0	3.0	8.0	1082
	2809	30.8	- 0 59	31.1	163.5	6.0	8.4	1994,
	56 ^I	31.5	6 3	39.1	349.4	6.0	7.4	1083
	57 ^I	31.8	66 11	179.1	26.1	6.5	6.5	1622, 2077
	2816	34.9	56 55	11.7	120.1	6.3	7.9	1623, 2078
	2822	38.4	28 12	5.6	114.6	4.0	5.0	1624

Quality

Σ No.	$R.A.$ h^m	$Dec.$ $^{\circ}$	$Dist.$ $''$	$Pos.$ $^{\circ}$	$Magn.$	$Magn.$	
2824	21 39.0	25 5	11.0	308.5	3.9	10.8	1625
2836	46.0	66 13	11.9	153.0	7.0	10.0	1093
2840	47.6	55 14	20.0	194.1	6.0	7.0	1910
2838	47.8 - 3	52	21.6	185.2	6.0	8.8	
2843	48.4	65 11	24	133.5	7.0	7.2	1109, 2006, 3757,
2841	48.5	19 8	22.2	111.0	6.5	8.0	1110
2857	59.8	9 28	19.5	113.8	7.0	8.7	1791, 2040,
2863	59.9	64 0	5.6	288.9	4.7	6.5	2166
2873	22 2.9	82 15	13.8	77.3	6.2	7.0	1084, 1820,
2869	4.1	14 1	22.7	253.8	5.8	11.8	1648, 2167
2883	7.8	69 30	14.9	254.7	6.2	8.2	1052, 1821,
2877	7.9	16 35	7.6	316.4	6.4	9.6	2174,
2893	10.7	72 43	28.8	348.6	5.5	7.6	1111, 1649, 3691,
2894	13.4	37 9	15.3	193.5	6.0	8.2	1650, 1822,
2900	17.6	20 13	2.5	180.7	6.0	9.2	1823,
2903	18.2	66 4	4.2	96.5	7.0	8.0	1824, 2061.
2906	21.3	36 49	4.5	4.4	7.0	10.6	2175
2908	22.1	16 37	8.9	116.4	7.0	8.7	1094, 2062,
2909	22.3 - 0	40	3.6	359.8	4.0	4.1	2176, 2177
2913	23.9 - 8	44	8.0	331.9	7.0	8.0	3692,
58 ^I	24.5	57 46	40.9	192.0	3.0	5.3	1626, 1995,
2923	29.7	69 43	9.3	46.4	6.9	9.2	1825,
2922	30.4	38 59	22.5	185.7	6.0	6.5	1086, 1826,
2935	36.4 - 8	58	2.6	313.3	7.0	7.8	1827,
2936	36.7	0 32	47	47.1	7.0	10.0	1996
2942	40.4	38 49	2.7	282.2	7.0	9.2	
2943	41.0 - 14	45	30.7	112.2	6.0	9.2	1651

Quality

Σ	No.	R.A. ¹⁸⁷⁵	Dec.	Dist.	Pos.	Magn.	Magn.	
	2944	22	41.2 - 4	53	4.1	247.0	7.0	7.5 2702,
	2948		45.3	65 53	2.8	5.3	7.0	8.7, 1095, 1112, 2703,
	2950		46.1	61 1	2.0	319.1	5.7	7.0 1113, 1087,
	2960		50.5	40 57	63.5	47.1	6.0	9.0 1652, 1997,
	2959		50.7 - 3	58	15.7	96.8	6.5	10.5 2704,
	2968 ^I		54.7	30 26	3.4	90.4	7.0	9.5 2079,
	59		58.7 - 8	14	262.1	146.0	5.6	7.0 1627, 2705,
	2977	23	1.0	60 46	2.2	335.1	6.8	10.7
	2978		1.4	32 9	8.4	146.2	6.8	8.0 1828, 2635
	2982		3.2	8 0	32.6	198.1	5.9	10.5 2318, 2636, 2706,
	2985		4.1	47 17	15.0	252.1	7.0	8.0 1829, 2080, 2319
	2986		4.6	13 47	31.6	273.9	6.5	9.3 1998, 2081,
	2993 ^{II}		7.3 - 9	37	25.6	177.9	7.0	7.8 1096, 1830, 2637, 2707,
	12		9.3 - 9	46	49.6	312.2	4.5	8.5 1096 1831, 2638, 2708,
	2998		12.4 - 14	8	13.4	345.2	5.2	7.2 1832, 2709,
	3001		13.5	67 25	2.4	175.0	5.2	7.8 2082, 2759,
	3004		15.1	43 26	13.1	177.8	6.5	10.0 2473, 2719,
	3007		16.7	19 52	5.7	79.2	6.5	9.5 2711,
	3008		17.2 - 9	9	7.5	273.3	7.0	8.0 2712,
	3009		18.0	3 0	6.9	229.5	6.8	8.8 2063, 2083,
	3023		26.1	16 44	1.9	281.9	7.0	9.7
	60 ^I		29.2	59 45	247.2	310.6	6.4	6.5 2064, 2084
	3028		32.4	34 20	19.5	205.4	7.0	9.5 1097
	3037		39.8	59 46	2.7	214.0	7.0	8.5 2633
	3042		45.9	37 12	4.2	89.3	7.0	7.0 2460, 2634,
	3044		46.6	11 14	18.6	282.1	6.9	7.3 1999,
	3049		52.6	55 4	3.0	323.5	5.4	7.5

Quality

Σ	No.	ϕ ¹⁸⁷⁵	Dec.	Dist.	Pos.	Magn.	Magn.
	3050	23 53.2	33 3	3.8	191.0	6.0	6.0 2000,
	3053	56.3	65 22	15.2	70.0	6.0	7.3 2322, 2461,
	3055	57.6	11 28	5.5	0.8	7.0	11.2
626	3062	59.6	57 44	0.8	87.5	6.9	8.0

5 *Ursae Majoris* 19.1¹⁸⁷⁰ 55 33

2690, 2692, 2693, 2694, 2695, 2696, 2697, 2698, 2699, 2700, 2701,

2761, 2810, 2815, 2816, 2817, 2839, 2840, 2978, 3005, 3022, 3026³⁰²⁷, 3044, 3050, 3072, 3114, 3178, 3185, 3186, 3263, 3264, 3466, 3477, 3483, 3747, 3756,

Dr.	gc.	H.	M.	WK.	¹⁸⁸⁰ RD.	¹⁸⁸⁰ Dec.	Diam.	¹⁸⁸⁰ Summary Description
129	63	VIII	79	. K	0	23 + 59	10 20	Cl, L, PR, IC, st 9...13 ~~PR, PR, PR, PR, PR~~
136	68	VI	35	. K	0	25 + 60	51 1	Θ, vF, S, eC.
225	120	VIII	78	WK	0	37 + 61	8 20	X !!! eeB, eL, v m E (Andromeda).
457	256	VII	42	WK	1	12 + 58	9	Cl, B, L, p Ri, st, 7, 8, 10,
581	341		103	WK	1	25 + 60	2	Cl, pL, B, R, Ri, st 10...11
663	392	VI	31	WK	1	38 + 60	88 15	Cl, B, L, e Ri, st pL,
752	457	VII	32	WK	1	50 + 57	5 30	Cl, vL, Ri, st L + sc,
869	512	VI	33	WK	2	11 + 56	36 30	! Cl, vL, v Ri, st 7...14
884	521	VI	34	WK	2	11 + 56	36	! Cl, vL, Ri, mby * M
—	—			W.	2	13 + 54	0	Cl, pL, Ri, st 10...15
957	553			W.	2	25 + 57	0	Cl, pL, p Ri, st 13...15
1039	584		34	WK	2	35 + 42	17 15	Cl, B, vL, IC, sc, st 9
1245	658	VI	25	WK	3	7 + 46	47 8	Cl, pL, Ri, c, i, R, st 12...15
1342	717	VIII	88	. K	3	23 + 36	53 15	Cl, vL, a b b o st
1444	775	VIII	80	WK	3	40 + 52	18 2-3	Cl, f a b b o st 12...14
1513	809	VII	60	. K	4	1 + 49	12 7	Cl, L, v Ri, p e, st, vL
1528	820	VIII	61	WK	4	6 + 50	54 15	Cl, B, v Ri, c C
1545	831	VIII	85	WK	4	12 + 49	56	Cl, p Ri, IC, st L
1647	896	VIII	8	W.	4	39 + 18	41	Cl, vL, st L, sc
1662	905	VII	1	. K	4	41 + 10	43	Cl, f L + s sc st + s
1708	940			. K	4	52 + 53	41	Cl, vL, p Ri, IC, st L + s
1758	977	VII	21	W.	4	57 + 23	36	Cl, p C, st L + s
1778	996	VIII	61	. K	5	0 + 37	12	Cl, p C, Ri, i f st L
1817	1030	VII	4	. K	5	3 + 16	32 20-25	Cl, L, Ri, IC, st 11...14
1857	1067	VII	33	WK	5	12 + 39	13	— Cl, p Ri, p C, st 7...
1859	1069	VII	32	W.				— F, S, R, v g b M, * 7 n f 6
1893	1101			. K	5	17 + 33	17	— Cl, L, Ri, IC
1904	1112		79	WK	5	19 - 24	38	— Θ pL, e Ri, c, rrr
1907	1114	VII	39	WK	5	20 + 35	13 4	Cl, p Ri, p C, R, st 9...12
1912	1119		38	WK	5	21 + 35	47 10	Cl, B, vL, v Ri, i f, st L + s

Quality

2
B

3 3 4

 $\frac{2}{B} \frac{2}{C} \frac{3}{A} \frac{4}{A} \frac{3}{B}$ $B A^5$ $A^3 4$

2

4 4

4

2357[✓]2372[✓]

2818, 2833,

1773[✓] 1805[✓] 1833[✓] 1963[✓] 1985[✓]1793[✓] 1866[✓] 2384[✓]1975[✓] 2531[✓]2373[✓]2149[✓]2561[✓]2546[✓]

2546

✓ ^{Does not come region}
2170, 2351, 2374[✓]2385[✓]2654[✓] 2662[✓] 2687[✓]2532[✓]2466[✓]2579[✓] 2685[✓] 2773[✓]2580[✓]2655[✓]✓ *
2162[✓]2674[✓]2398[✓]✓ ^{Does not come region}
2617[✓]2420[✓]2648[✓]2686[✓]2618[✓]2658[✓] 2891[✓]

4, , 4,

3, 4, 3, 2,

3,

3, 3, 2, 4,

4, 2,

4,

4,

4, 4,

3, 4,

3,

3, , 4,

Dr.	G.C.	H	M	W	K	R.A.	Dec.	Diam.	Summary Description
1960	1166		36	W	K	5 28 + 34	4	9	Cl, B, V, L, R, i, c, st, ^{9...11sc}
1981	1184			W	K	5 30 - 4	27		Cl, B, I, R, i, st, L, se
1996	1199	VIII 42		.	K	5 31 + 35	45	15	Cl, L, I, C, I, R, i,
2017	1220			W	.	5 34 - 17	55		Cl, f, L, st
2099	1295		37	W	K	5 44 + 32	31	24	Cl, R, i, p, C, M, st, L, + S
2112	1310	VIII 24		.	K	5 48 + 0	21	7-8	Cl, p, L, I, R, i, p, C, st, S
2129	1325	VIII 26		.	K	5 53 + 23	18	6-7	Cl, p, L, 40 or 50 st, 8...15
2168	1360		35	W	K	6 1 + 24	20	20	Cl, v, L, c, R, i, p, C, st, ^{9...16}
2169	1361	VIII 24		W	K	6 2 + 13	59		Cl, S, I, R, i, p, m, C, * ²⁴⁸
2186	1376	VIII 25		.	K	6 6 + 5	29	5-6	Cl, p, L, p, R, i, p, C, st, L, ²⁴⁸
2194	1383	II 5		.	K	6 7 + 12	50	7-8	Cl, L, R, i, g, v, m, C, M
2224	1408	VIII 35		.	K	6 21 + 12	43		Cl, p, C, with Neb?
2232	1415	VIII 25	~~(10)~~	W	K	6 22 - 4	41		B* (10 Monoc) + Cl
2244	1424	VII 2		W	K	6 26 + 4	57		Cl, beautiful, st, sc, ^(43 Monoc)
2259	1435	VI 28		W	K	6 32 + 10	59		Cl, R, i, c, c, i, F, st, e, S
						6 39 + 13	2		
2281	1451	VIII 71		.	K	6 41 + 41	12		Cl, p, R, i, v, L, c, st, p, L
2286	1453	VIII 31		.	K	6 42 - 3	3		Cl, L, c, 2, b, 100 st, ^{9...15}
2287	1454		41	W	K	6 42 - 20	37		Cl, v, L, B, L, C, st, 8...16
2301	1465	II 27		W	K	6 46 + 0	36	20	Cl, R, i, L, i, f, st, L, + S
2304	1467	VI 2		.	K	6 48 + 18	8		Cl, p, L, R, i, m, C, st, ⁷⁸
				W	.	6 52 + 14	25		
2312	1474			.	K	6 52 + 10	25		- Cl, P
2318	1479	VII 14		.	K	6 54 - 13	22	20	Cl, L, sc, st, 8...9
2323	1483		50	W	K	6 57 - 8	10	30	Cl, v, L, R, i, p, C, E, st, ^{12...16}
2331	1490	VIII 40		.	K	7 0 + 27	23		- Cl, L, v, L, C, S, c, l, i, n, v
2355	1508	VI 6		.	K	7 10 + 13	59	4	Cl, p, S, p, R, i, m, C, st, ^{5...16}
2360	1512	VII 12		W	K	7 12 - 15	25		- Cl, v, L, R, i, p, C, st, 9...12
2362	1513	VII 17		W	K	7 14 - 24	44		- Cl, p, L, R, i, (30 Can. ^{map})
2395	1534	VIII 11		.	K	7 22 + 14	1	15	Cl, p, R, i, C

Quality

26^v44

3,

26^v19

3i,

26^v39

3,

26^v52

1,

2933,

2,

Dr.	G.C.	H.	M.	N.K.	R.A.	Dec.	Dianu.	Summary Description
2420	1549	VI 1		NK	7	31 + 21 50	6	Cl, cL, R, L, C, St ⁴⁻¹⁸
2422	1551	VIII 38		NK	7	31 - 14 12	15	Cl, B, V, L, p, R, i, St ⁷⁻⁸ L _n
2437	1564		46	NK	7	36 - 14 32	30	! Cl, V, B, V, R, i
2447	1571		93	NK	7	39 - 23 35	8	Cl, L, p, R, i, C, St ^{9...13}
2506	1611	II 37		NK	7	54 - 10 27	5-6	Cl, p, L, v, R, i, C, St ^{11...30}
2539	1630	VII 11		NK	8	5 - 12 34	20	Cl, v, L, R, i, L, C, St ^{11...13}
2548	1637	VI 22		NK	8	8 - 5 26		Cl, v, L, p, R, i, p, R, i, C, St ^{9...13}
2632	1681		44	NK	8	33 + 20 22		Præsepe Cancri
2682	1712		67	NK	8	45 + 12 15		! Cl, v, B, v, L, e, R, i, C, St ^{10...15}
4147	2752	I 19		NK	12	4 + 19 13		⊙, v, B, p, L, R, e, b, M _n , St ¹²
5024	3453	I. 19	53	NK	13	7 + 18 48		! ⊙, B, v, C, i, R, v, v, m, b, M _n , St ¹²
5272	3636		3	NK	13	37 + 28 59		!! ⊙, e, B, v, L, v, s, m, b, M _n , St ^{11...15}
5904	4083		5	NK	15	12 + 2 31	7-8	!! ⊙, v, B, L, e, C, M, St ^{11...15}
6171	4211	VI 40		NK	16	26 - 12 47		⊙, L, v, R, i, v, m, C, R _n , St ¹¹
				N	16	32 + 31 10		!! ⊙, e, B, v, e, C, M, St ¹¹
6205	4230		13	NK	16	37 + 36 41	8	!! ⊙, e, B, v, R, i, v, e, C, M _n , St ¹¹
6218	4238		12	N	16	41 - 1 43	7-8	!! ⊙, v, B, v, L, i, R _n , St ¹¹
6254	4256		10	NK	16	51 - 3 54		! ⊙, B, v, L, R, e, v, m, b, M _n , St ^{10...15}
6266	4261		62	NK	16	54 - 29 56		⊙, v, B, L, e, v, m, b, M _n , St ^{14...16}
6273	4264		19	NK	16	56 - 26 5	3	⊙, v, B, L, R, v, C, M _n , St ¹⁶
6284	4268	II 11		NK	16	58 - 24 86	2.5	⊙, v, B, L, R, v, C, M _n , St ¹⁶
6287	4269	II 195		NK	16	59 - 22 32		⊙, C, B, L, R, e, v, m, C, M _n , St ¹⁶
6293	4270	VI 12		NK	17	3 - 26 25	-	⊙, v, B, L, R, e, v, s, b, M _n , St ¹⁶
6333	4287		9	NK	17	12 - 18 25	3	⊙, B, L, R, e, C, M _n , St ¹⁴
6341	4294		92	NK	17	13 + 43 16	8	⊙, v, B, v, L, e, C, M _n , St ¹⁵
6402	4315		14	NK	17	31 - 8 10	7	! ⊙, B, v, L, R, e, R, i, v, s, St ¹⁵
6494	4346		23	NK	17	50 - 19 0	15	Cl, B, v, L, p, R, i, L, C, St ¹⁰
6522	4359	I 49		NK	17	56 - 30 2		⊙, B, p, L, R, e, v, m, b, M _n , St ¹⁶
6523	4361		8	NK	17	57 - 24 23	!!!	v, B, e, L, e, i, L, C _n , St ¹⁶
6531	4367		21	NK	17	58 - 22 31		Cl, p, R, i, L, C, St ^{9...12}

Quality

2659

3,

2918, 2935,

3, 3,

2569, 2640

4, 3,

2730, 2951, 2934,

1, 3, 3,

2863, 2907,

3, 3,

1442, 1481, 1516, 1577, 1529, 1591, 1601, 1655, 1661, 1683, 1684, 1689, 1727, 1748,

 $\begin{matrix} 2 & 2 & 1 & 3 & 3 & 2 & 4 & 3 \\ \phi & \phi & \phi & B & B & B & B & B \end{matrix}$

1483, 1525, 1572, 1654, 1676, 1, 2892,

• BB A

1433, 1421, 1428, 1444, 1482, 1486, 1530, 1533, 1586, 1690, 1728, 1749, 1741,

 $\begin{matrix} 3 & 3 & 3 & 3 & 4 & 4 & 3 & 3 & 4 & 4 & 4 & 5 \\ \phi & \phi & \phi & B & B & B & B & B & B & B & B & A \end{matrix}$

3766, 3622,

1427, 1673, 1691, 1729, 1756, 1762, 1771, 2911, 3028, 3116, 3256, 3311, 3683, 3758,

 $\begin{matrix} 3 & 3 & 4 & 3 & 2 & 4 & 5 \\ \phi & A & B & \phi & A & A & A \end{matrix}$

1430, 1445, 1526, 1672, 1685, 1942,

 $\begin{matrix} 1 & 1 & 3 & 4 & 3 & 2 \\ \phi & \phi & \phi & B & B & \phi \end{matrix}$

1439, 1460, 1461, 1578, 1682, 3117, 3339, 3748,

 $\begin{matrix} 1 & 1 & 1 & 3 & 4 \\ \phi & \phi & \phi & B & B \end{matrix}$

1419, 1492, 1579, 2014, 3318,

 $\begin{matrix} 1 & 2 & 3 \\ \phi & A & \phi \end{matrix}$

1519, 3118, 3343,

 $\begin{matrix} 2 \\ B \end{matrix}$

3340,

3348,

3349,

930, 1527, 2015, 3353,

 $\begin{matrix} 1 & 3 & 3 \\ \phi & B & \phi \end{matrix}$

1440, 1462, 1730, 1731, 1757,

 $\begin{matrix} 2 & 2 & 4 & 2 & 4 \\ \phi & \phi & A & \phi & A \end{matrix}$

1424, 1431, 1588, 3347, 3352,

 $\begin{matrix} 1 & 1 & \phi \\ \phi & \phi & \phi \end{matrix}$

1754, 2128,

 $\begin{matrix} \phi \\ \phi \end{matrix}$

3424,

3341, 3346,

1958, 1959, 3423,

 $\begin{matrix} 2 & 5 \\ \phi & A \end{matrix}$

Dr.	G.C.	H.	M.	H.K.	RA.	Dec.	Diam.	Dr. Summary Dr.
6546	4376			. K	^{h.m.} 18 0 - 23 14			Cl, vL, vRi
6568	4388	VII 30		N K	18 6 - 21 36			Cl, vL, IC,
				N	18 7 + 4 18			
6603	4397		24	N.K	18 11 - 18 38			90! Cl, vRi, vL, R, st, ^{15 (m way)}
6611	4400		16	N K	18 12 - 13 50			8 Cl. at least 100 st ^{1st & 2nd}
6613	4401		18	N K	18 13 - 17 12			5 Cl, P, vL, IC ^{1st st 14...16}
6626	4406		28	N K	18 17 - 24 56			2! Cl, vB, L, R, ge CM,
6633	4410	VIII 72		N K	18 22 + 6 29			Cl, IC, st L
66	—		25	N.	18 25 - 19 10			
6656	4424		22	N K	18 29 - 24 0			8!! Cl, vB, vL, R, vRi, ^{v m, st 11...15}
6664	4426	VIII 12		. K	18 30 - 8 19			Cl, L, pRi, vL, IC,
	—			N.	18 32 + 5 5			
6682	4429			. K	18 35 - 4 52			Cl, L, Ri, st 10...18
6694	4432		26	N K	18 39 - 9 31			2 Cl, L, pRi, pC, st, ^{12...15}
6705	4437		11	N K	18 45 - 6 25			! Cl, vB, L, iR, Ri, ^{* 9, st 11...}
6709	4446 ⁰			N K	18 46 + 10 12			Cl, pRi, IC, iF
6724	4451		h 2024	N.	18 44 + 10 10			Cl,
~~4437~~			11	N.				
~~4440~~				N.				
				N.	18 51 + 42 0			
6755	4470	VIII 19		. K	19 3 + 4 3			12-15 Cl, vL, vRi, pC, ^{st 12...14}
				N.	18 53 + 38 5			
				N.	18 56 + 27 43			
6775	4482		56	. K	19 11 - 1 8			Cl, P, IC, st 10...11
6779	4485		56	N K	19 12 + 29 58			4-5 Cl, vB, L, iR, vL, ^{CM, rff, st 11...14}
				N.	19 20 + 12 12			
				N.	19 29 + 28 20			
6815	4508			. K	19 36 + 26 32			Cl, vL, pRi, IC, st, ^{10...15}
6819	4511			N	19 37 + 39 55			Cl, vL, vRi, st, ^{11...15}
6832	4517			N	19 46 + 59 7			Cl, vL, IC, st 7...

Quality

3366,

1614, 3749,

1760, 3670,

2371, 3369,

3184

2155

862 1583,

1765, 3350, 3351,

3671,

2653, 3679,

900, 1423, 1463, 3425,

3426,

1739 1751,

2

4?
A4 3
B3?
B

2?2?

3 4
BA

Dr.	G.C.	H.	M.	H.K.	R.A.	Dec.	Diagn.
6838	4520		71	H K	^{h. m.} 19 48 + 18 29		3 Cl, v L, v R, i, p, m, c
	—			H	19 53 + 28 20		
6866	4544	VIII 59		H K	20 0 + 43 40		15 Cl, L, v R, i, c
6885	4559	VIII 20		H K	20 7 + 26 8		Cl, v B, v L, R, i, c
6910	4575	VIII 56		H K	20 19 + 40 20		Cl, p B, p E, p C, i
	—			H	20 25 + 28 32		
6939	4590	VI 42		. K	20 29 + 60 16		M, st 11...16 8-9 Cl, p L, c R, i, p, c
6940	4591	VIII 8		H K	20 29 + 27 54		Cl, v B, v L, v R, i
6981	4608		72	. K	20 47 - 12 59		2 Cl, p B, p L, R, s, m, c
7039	4645			. K	21 7 + 45 11		Cl, v L, p R, i, E, st
7078	4670		15	H K	21 34 + 11 39		3-4 Cl, v B, v L, v R, i
7092	4681		39	H K	21 28 + 47 54		Cl, v L, v R, i, c, st
7099	4687		30	H K	21 34 - 23 43		1 Cl, B, L, i, E, s, p, m, c
	—			H	21 51 + 7 4		
7142	4709	VIII 66		. K	21 43 + 65 12		Cl, L, c R, i, p, c, st
7209	4755	VIII 53		. K	22 1 + 45 54		Cl, L, c R, i, p, c, st
7243	4773	VIII 75		H K	22 10 + 49 17		16 Cl, v L, v R, i, c, st
	—			H	22 14 + 45 23		
	—			H	23 10 - 5 10		
7654	4957		52	H K	23 19 + 60 56		Cl, L, R, i, m, c, m, R, i
	—			H	23 28 - 10 40		
7772	5023			. K	23 46 + 15 29		Cl, f, s, c, st 10 m
7789	5031	VI 30		H K	23 51 + 56 3		Cl, v L, v R, i, v, m, c

Dr
mCC
ilc
2
n

pC

Ri

3m

10

st

285

7K

st

reb

st

t

t

R

m

il

880 1755, 1766, 1982,

1554 1715, 1716, 1745, 2349,

863 1761, 1977,

1961 1978, 1992,

2632

1767, 1804, 2396

3370,

2648

1752 1980

844 1607, 1740,

3408,

842 1746, 1768, 1772,

841, 1692, 1707, 1743, 1747, 1753, 1759, 1769, 1962, 2382, 2383

2395 2649, 3486,

3485,

Quality

^{2 3 4}
B B A^{3 3 3 4}
C C C A^{3 4 5}
A A^{5 5 4?}
A A A?⁴
B A^{4 2}
A C^{2 3 5}
B A^{2 4 5 5}
B A A^{3 3 4 3 3 3 5 2 4?}
B C C B A C A

For description of list see p. 74.

Dr.	Sb	Ab	W.	K.	RA.	Dec.	Diarr.	Drift	Summary Description
104	52	-	-	-	-	0 17.8-72 51.6'			Θ!! vB, vL, v m, C M,
288	162	VI 20	-	-	-	0 45.9-27 20.7'			Θ, B, L, I E, st 12...16
330	183	-	-	-	-	0 51.4-73 13.6'			Θ, vB, S, I E, st 13...15
362	193	-	-	-	-	0 57.5-71 36.0'			Θ, vB, vL, vC, v m b M, ^{st 13-14}
376	200	-	-	-	-	0 59.4-73 34.4'			Θ, B, S R,
628	372	-	74	-	-	1 29.2+16 16.0'			Θ, E, v L, R, v g, p s m b M, ^{rr}
843	5224	-	-	-	-	2 2.9+32 34.0'			Θ F, S, R
1068	600	-	77	-	-	2 35.5-0 36.7'			v B, p L, i R, s b M r r N
1193	641	II 608	-	-	-	2 56.6+4 47.5'			F, c L, e r
1261	666	-	-	-	-	3 8.4-55 44.8'			Θ, B, L, R, r r
1291	685	-	-	-	-	3 12.2-41 36.8'			Θ, vB, p L, R, m b M, e r
1299	688	II 287	-	-	-	3 13.2-6 46.0'			v F, S, v L E, g b M, e r
1310	693	-	-	-	-	3 15.7-37 38.6'			Θ, v F, p L, R, v g v l b M
1379	741	-	-	-	-	3 30.7-35 54.8'			Θ, B, p L, R, g p m b M,
1387	744	-	-	-	-	3 31.6-35 58.6'			Θ, vB, p L, R, g m b M
1399	748	-	-	-	-	3 33.1-35 54.9'			Θ, vB, p L, p s b M, r r
1436	769	-	-	-	-	3 38.1-36 34.2'			Θ vB, p m E, p g b M
1507	805	II 277	-	-	-	3 57.3-2 33.0'			v F, p L, m E, v l b M, e r
1512	808	-	-	-	-	3 59.3-43 44.4'			Θ, B, c L, R, b M, r r
1697	930	-	-	-	-	4 49.0-68 47.5'			Θ, p B, L, R, r r
1707	939	-	-	-	-	4 51.3+8 58.7'			S, R, r r r,
1711	941	-	-	-	-	4 51.8-70 13.0'			Θ, B, S, i R, r r r, st 14
1722	952	-	-	-	-	4 52.7-69 37.2'			C L, F, S, R, 2nd of 3
1782	999	-	-	-	-	4 58.7-69 36.3'			Θ, p B, S, R, p m b M, r r
1792	1009	-	-	-	-	5 0.4-38 11.6'			v B, v L, m E 314.31 b M, r r
1810	1023	-	-	-	-	5 3.2-66 34.3'			Θ, c F, S, R, I b M, ^v
1818	1031	-	-	-	-	5 4.0-66 37.1'			Θ, vB, p L, R, v m C, r r
1850	1060	-	-	-	-	5 7.4-68 55.8'			Θ' vB, L, I E, v m C M, r r
1851	1061	-	-	-	-	5 9.5-40 12.3'			Θ' vB, v L, R, v s v v b M, r r r
1854	1064	-	-	-	-	5 10.0-69 1.2'			Θ, c B, S, F, g b M, ³ Incl.

2465

2544

Dr.	St.	Yb.	Mk.	W. K.	R. A.	Dec.	Quam.	Summary Description
1902	1110	-	-	-	5 18.2	-66° 46.0'		⊙, pL, R, rmbM, rr
1961	1167	III 747	-	-	5 27.2	+72° 36.0'		cF, pL, iF, mbM, er, *mv, (2PD)
2004	1207	-	-	-	5 30.9	-67° 23.3'		⊙, B, pL, pR, i, C, st 12
2031	1234	-	-	-	5 35.6	-71° 3.4'		⊙, B, pL, R, gbM, rr
2075	1273	-	-	-	5 40.2	-70° 45.3'		B, R, bM, rr, st 2
2090	1288	-	-	-	5 42.0	-34° 18.4'		⊙, B, pL, R, gbM, rr
2092	1290	-	-	-	5 42.6	-69° 16.6'		⊙, B, pL, iR, gbM
2098	1297	-	-	-	5 43.1	-68° 20.2'		vF, pL, R, rr
2100	1298	-	-	-	5 43.2	-69° 16.4'		⊙, B, pL, i, rr, R, rr
2110	1308	{III 748.3}	-	-	5 45.4	-70° 30.1'		ef, c, st, E, ps, lbM, er
2113	1311	{III 510.5}	-	-	5 46.7	-69° 49.7'		Cl, F, S, iF, v, lC, rr
2117	1315	-	-	-	5 48.1	-67° 29.6'		F, pL, iR, v, lbM, rrr
2118	1316	-	-	-	5 48.6	-69° 10.4'		⊙, vB, vS, v, smbM, rr
2134	1330	-	-	-	5 53.9	-71° 7.9'		⊙, B, pL, R, gbmbM, r
2136	1332	-	-	-	5 54.1	-69° 30.9'		⊙, pB, R, gbmbM, rr, st, 14...16
2157	1350	-	-	-	5 58.6	-69° 12.0'		⊙, vB, S, R, v, gbmbM, r, 7.1
2164	1356	-	-	-	5 59.6	-68° 31.0'		⊙, vB, R, mCM, rr
2214	1398	-	-	-	6 13.6	-68° 13.2'		B, pS, lE, gbM, rrr
2298	1463	-	-	-	6 44.0	-35° 50.9'		⊙, B, pL, iR, gbM, rr
2467	1589	IV 22	-	-	7 46.7	-26° 2.0'		pB, vL, R, er, *8M
2481	1596	II 302	-	-	7 48.8	+25° 52.4'		F, S, lE, bM, er
2507	1612	II 554	-	-	7 53.7	+18° 54.6'		pB, pL, iR, v, gbM, er, *x, 232, 70
2537	1629	IV 55	-	-	8 33	+18° 35.6'		⊙, pB, pL, R, rrr, st 20
2566	1648	III 288	-	-	8 12.8	-25° 1.9'		vF, cL, er
2573	1652	-	-	-	8 13.2	-87° 41.1'		F, S, R, gbM, Polaris, avstr
2650	1690	II 908	-	-	8 36.2	+70° 48.6'		pB, pL, iF, er
2664	1698	-	-	-	8 39.5	+17° 53.2'		Cl, st 9...10
2726	1742	II 834	-	-	8 53.9	+68° 29.8'		cF, pS, iR, er
2742	1750	I 249	-	-	8 56.5	+62° 57.9'		cB, cL, E 90° cr
2808	1793	-	-	-	9 9.2	-64° 17.3'		⊙, vL, eR, i, v, gcCM, 45 d, st 13...15
2849	1830	-	-	-	9 13.9	-39° 57.4'		cF, cL, R, v, gbM, rr
2873	1849	-	-	-	9 19.5	-33° 29.6'		vF, S, v, gbM, rrr, st 15

Q.	S.k.	yk.	Ab.	W.K.	Rot.	Dec.	Drift	Description
3010	1935	-	-	-	44° 59.7'			EpSbM, rrf 2
3041	1956	II 98	-	-	9 41.1 + 45.1			Φ, F, L, R, v, g, 16M, rrf, 2B, st, SP
3201	2068	-	-	-	9 45.4 + 17.1			Φ, vL, r, 16M, st 13...16
3222	2084	-	-	-	10 14.9 - 45.4			F, 16M, rrf (Schultz B.N.);
3304	2154	III 615	-	-	10 29.6 + 39.1			vF, cS, psbM, er
3351	2184	-	95	-	10 36.6 + 12.2			B, L, R, pgmbMN
3398	2219	III 792	-	-	10 43.0 + 56.1			vF, S, E, er
3368	2194	-	96	-	10 38.4 + 12.3			vB, vL, IE, vsrmbM, r
3423	2334	(IV 6)	-	-	10 44.0 + 6.0			F, vL, R, vgsbM, rrf
3481	-	-	-	-	10 52.2 - 6.4			eFrSrr, rrf, vF, cL, * 9.5sf
3504	2387	I 88	-	-	10 55.6 + 28.1			B, L, E, mbMN, rrf, p 2
3603	2354	-	-	-	11 9.1 - 60.2			Φ and mb, st 15...18
3926	2589	III 379	-	-	11 44.2 + 20.1			eF, cS, vIE, er, st nr
3938	2597	I 203	-	-	11 45.5 + 45.5			B, vL, R, 6M, pBN, er
4027	2661	II 296	-	-	11 52.4 - 8.0			Φ, pF, pL, R, rrf, st 16
4163	2766	III 399	-	-	12 4.9 + 38.0			vF, pL, vIE, er
4321	2890	-	100	-	12 15.8 + 17.0			11 { pF, vL, R, v, g, psbM, rN
4372	2927	-	-	-	12 17.8 - 7.0			11 { 122-branched spiral
4374	2930	-	84	-	12 18.0 + 14.0			Φ, pF, L, R, st 12...16
4449	3002	I 213	-	-	12 21.4 + 43.0			vB, pL, R, psbM, r
4454	3005	II 180	-	-	12 21.7 + 10.2			{ vB, cL, mE, Dn, bid rrf
4486	3035	-	87	-	12 23.7 + 13.0			* 9.5'
4487	3036	II 776	-	-	12 23.7 + 7.0			F, L, R, gsbM, er
4504	3054	II 771	-	-	12 25.1 - 6.0			vB, vL, R, mbM, 3rd of 3
4536	3085	V 2	-	-	12 27.3 + 8.0			F, vL, er
4552	3097	-	89	-	12 28.6 + 14.0			pB, cL, iE, gvlbM, er
4569	3111	-	90	-	12 29.8 + 14.0			B, vL, mE, 110°, sbM, er
4579	3121	-	58	-	12 30.6 + 13.0			pB, pS, R, gmbM
4590	3128	-	68	-	12 32.1 - 25.8			pL, 3MN
4617	3150	II 744	-	-	12 34.8 + 53.0			BL, iR, vmbM, r
4621	3155	-	59	-	12 35.0 + 13.0			Φ, L, eRi, vC, iR, rrr st 12
4685	3215	III 398	-	-	12 40.2 + 20.0			pF, S, iR, er
4711	3242	II 412	-	-	12 42.7 + 37.0			B, pL, IE, vsrmbM, 2st p
4833	3325	-	-	-	12 50.2 + 40.0			F, S, R, sbM, *, rrf
4999	3432	II 537	-	-	13 2.6 + 2.0			F, S, E, g 16M, er
								Φ, B, L, R, v, g, sbM, st 12
								cF, pL, R, 16M, er

1420, 1485, 1524, 1590, 1670,

Dr. G. W. yk. Mc. W. K. R. A. Dr. Quinn				Summary Description	
5019	3449	III 545	-	13 5-6 + ⁵⁰ 31.7	e F, v, S, R, e r
5139	3531	-	-	13 18.4 - 46.3 4.8	!!!, @ w Centauri
5236	3608	-	-	13 29.2 - 29.9 9.0	!! (H. 1) v B, y L, E 55° es b MN (L)
5239	3608	III 101	-	13 29.5 + ⁸ 54.3	3 branched spiral
5265	3630	III 410	-	13 34.0 + 37.2 4.5	v F, p L, R, e r
5286	3642	-	-	13 37.6 - 50° 40.1	F, c S, v l E, e r
5331	3678	III 929	-	13 45.1 + ² 47.7	@, v B, p L, R, r r r, st 15
5457	3770	-	101	13 58.2 + ⁵⁵ 1.4	v F, S, E O°, r r
5494	3802	-	-	14 4.3 - 29.5 9.8	v B, v L, i R, g, v s m b MBSN 101
5501	3805	-	-	14 5.2 + ¹ 54.9	v B, L, R, g b M, r r
5607	3875	II 331	-	14 17.7 + ³ 12.5	v F, S, r r
5616	3884	III 419	-	14 18.5 + ⁵ 54.4	p F, c S, i R, b M, c r
5634	3900	I 70	-	14 22.3 - 5° 21.0	v F, S, c E, v g b M, e r
5897	4075	-	-	15 7.4 - ¹⁰ 29.7	{ @, v B, c L, R, g b M, r r r
5927	4101	-	-	15 17.9 - 50° 10.8	{ st 17, * 855
5946	4108	-	-	15 25.3 - 50° 11.2	@, p F, L, v i R, v g b M, r r r
5970	4122	II 76	-	15 31.9 + ² 38.5	@, c B, L, R, v g b M, r r r, st 15
5986	4132	-	-	15 36.9 + 37° 19.4	@, c B, p L, R, v g b M, r r r, st 16
6075	-	-	-	16 5.4 + ⁴ 19.6	p F, p L, R, r r
6093	4173	8	80	16 8.7 - ² 37.5	!, @, v B, L, R, v g b M, st 13...15
6101	4175	-	-	16 9.9 - 71° 31.9	F, v S, R, * a st in r? r r
6121	4183	-	4	16 15.1 - 26° 11.2	!! (@) v B, L, v m b M, (var*)
6139	4189	-	-	16 18.2 - 38° 31.0	r r r, st 14
6144	4193	V II 10	-	16 18.7 - 25° 43.1	@, p F, L, i R, v g b M, r r, st 14
6154	4201	III 680	-	16 22.1 + ¹¹ 48.8	{ c l, s o v 10 B st inline, with
6177	4215	III 890	-	16 25.6 + ⁵ 22.0	{ 5 st, r r r
6192	4244	-	-	16 30.5 - 43° 5.3	B, p L, R, p s b M, r r
6193	4225	-	-	16 30.9 - 48° 29.1	C l, c L, m C, g b M, r r r
6204	4229	-	-	16 36.1 - 46° 45.6	r F, S, R, 7 b M, e r
6221	4239	-	-	16 40.7 - 58° 58.0	v F, p L, i E, r r, * n r
6229	4224	IV 50	-	16 43.0 + ⁷ 46.7	C l, p L, p R i, i R, st 11...14
6235	4246	II 584	-	16 45.0 - 21° 56.3	C l, v L, i R i, l C, r r r, F r u s h
					C l, p R i, e i C M, st 11...12
					@, p B, c L, R, g b M, r r
					@, v B, L, R, d i e r F l o u d e r, T
					v B, c L, i R, r r r st 14...16

3342,

Q.	G.B.	Y.C.	W.	R.	Q.A.	Q.	Summary Description
6242	4249	-	-	-	16	46.1-39° 16.2'	Cl, B, L, R, st 8... 11
6250	4252	-	-	-	16	47.7-45° 42.4'	Cl, L, TRi, 7C, st 8... 12
6256	4258	-	-	-	16	50.3-36° 53.5'	Θ, vF, vL, iR, vgbM, rrr
6294	4271	-	-	-	17	1.6-26° 22.6'	Θ, <u>g</u> F, S, vgbM, ¹⁶
6304	4275 I 147	-	-	-	17	5.7-29° 17.3'	Θ, B, cL, R, 7bM, rrr, st 16
6316	4279 I 45	-	-	-	17	7.8-27° 58.5'	Θ, B, pS, R, gvm bM, rrr, st 16
6325	4283	-	-	-	17	9.5-23° 35.9'	pF, L, R, rrr
6342	4293 I 149	-	-	-	17	12.9-19° 26.5'	cB, pS, 1E, er
6355	4295 I 46	-	-	-	17	15.2-26° 12.7'	cF, L, R, g bM, rrr
6356	4296 I 48	-	-	-	17	15.4-17° 40.5'	Θ, vB, cL, v g v m bM, rrr, st 20
6362	4300	-	-	-	17	17.4-66° 55.8'	Θ, cB, L, v g m bM, rrr, st 17
6388	4307	-	-	-	17	26.0-44° 38.5'	Θ, vB, L, R, pS, psv m bM, rrr, st 17
6397	4311	-	-	-	17	29.3-53° 35.1'	Θ, B, vL, R, i, st 13
6405	4318	-	6	-	17	30.9-33° 7.1'	Cl, L, iR, 1C, st 7, 10...
6412	4321 VII 41	-	-	-	17	34.1+76° 48.8'	Θ, cL, R, v g bM, rrr
6441	4332	-	-	-	17	40.7-37° 0.1'	Θ, vB, pL, R, v g m bM, rrr, st 18
6475	4340	-	7	-	17	44.7-34° 46.6'	Cl, vB, pR, i, 1C, st 7... 12
6517	4357 II 199	-	-	-	17	54.2-8° 57.2'	7B, pL, R, rrr
6538	4364 II 200	-	-	-	17	55.8-30° 3.5'	Θ, pF, cS, R, g bM, rrr, st 16
6551	-	-	-	-	18	0.1-29° 34.1'	vF, vS, R, rrr
6541	4372	-	-	-	17	57.8-43° 43.4'	Θ, B, R, cL, g bM, rrr, st 15... 16
6553	4378 IV 12	-	-	-	18	0.7-25° 56.3'	Θ, FL, 1E, v g 1 bM, rrr, st 20
6556	4380	-	-	-	18	1.2-27° 33.5'	F, vL, cE, 1bM, rrr
6558	4382	-	-	-	18	1.2-31° 46.8'	Θ, pB, pL, R, g 1 bM, rrr, st 16
6569	4389 II 201	-	-	-	18	4.6-31° 51.0'	Θ, cB, L, R, rrr, st 15...
6584	4393	-	-	-	18	7.4-32° 15.2'	Θ, cB, cL, R, g m bM, ^{rr} st 15
6624	4404 I 50	-	-	-	18	14.7-30° 25.4'	Θ, vB, pL, R, rrr, st 16
6637	4411	-	69	-	18	22.2-32° 26.6'	Θ, B, L, R, rrr, st 14... 16
6638	4412	-	I 51	-	18	22.3-23° 35.2'	Θ, B, S, R, rrr
6642	4414 II 205	-	-	-	18	23.4-23° 34.0'	{ Θ, pB, pL, iR, g p m bM, rrr, st 16
6652	4421	-	-	-	18	26.6-33° 5.7'	B, S, 1E, rrr, st 15
6681	4428	-	70	-	18	34.1-32° 25.2'	Θ, B, pL, R, g bM, st 14... 17

1587,

1738, 3354,

1983, 3404,

1750, 3673,

1792 1779, 3407,

Or. G. C. 41. M. N. A. Dec. Days				Summary Description	
6712	4441	I 47	—	18 45.4 - 8° 53.4'	⊙, PB, VL, i, r, r, v, g, 76 M, r, r, r
6715	4442	—	54	18 46.1 - 30° 38.5'	⊙, v, B, L, R, g, s, m, b, M, r, r, r, st ¹⁵
6723	4450	—	—	18 50.1 - 36° 48.8'	⊙, v, L, v, l, E, v, g, b, M, r, r, r, st ¹⁶ 14
6752	4467	—	—	18 58.5 - 60° 11.8'	⊙, B, v, L, i, R, r, r, r, st 11. 16
6804	4499	VI 36	—	19 24.9 + 7° 40.0'	C, B, S, i, R, r, r, r
6809	4503	—	55	19 31.1 - 31° 15.7'	{⊙, PB, L, R, v, R, i, v, g, b, M, st 13... 15
6864	4543	—	75	19 57.8 - 22° 19.0'	⊙, B, p, L, R, v, m, b, M, B, N, r, r
6934	{4585, 4586}	I 103	—	20 27.3 + 7° 55.8'	⊙, B, L, R, r, r, r, st 16... * 97
6946	5968	—	—	20 31.6 - 5° 27.6'	PE, v, S, R, m, b, M, v, L, v, g, v, s, b, M, r, r
6981	4608	—	72	20 45.8 - 13° 3.8'	⊙, p, B, p, L, R, g, m, C, M, r, r, r
6998	4617	—	73	20 51.3 - 13° 10.5'	Cl, c, P, v, l, C, no, n, u, l.
7076	4669	III 936	—	21 22.9 + 67° 16.5'	v, F, e, r
7089	4678	—	2	21 26.2 - 1° 26.5'	{11. ⊙, B, v, L, g, p, m, b, M, r, r, r, st e, s
7184	4739	II 1	—	21 54.9 - 21° 29.0'	P, B, p, L, m, E, 64°, h, t, 3, st, e, r
7197	4746	II 599	—	21 57.2 + 40° 37.2'	F, c, S, c, E, v, g, 76 M, e, r
7214	4758	—	—	22 1.1 - 28° 29.7'	⊙, p, L, i, R, r, r
7217	4760	II 207	—	22 1.6 + 30° 40.6'	B, p, L, g, b, M, e, r
7231	4768	II 606	—	22 6.7 + 48° 39.1'	e, F, S, e, r
7252	4780	III 458	—	22 13.0 - 25° 22.7'	F, S, R, e, r
7423	4866	III 745	—	22 49.3 + 57° 38.2'	v, F, p, L, i, F, e, r
7443	{4876, 4877}	I 450	—	22 52.8 - 13° 33.2'	F, v, S, v, l, E, s, m, b, M, e, r, n, f, 2
7444	4877	II 451	—	22 52.8 - 13° 34.3'	F, v, S, v, l, E, s, m, b, M, e, r, s, o, f, 2
7751	5013	III 437	—	23 39.8 + 7° 54.3'	F, S, R, g, b, M, e, r

This table is comprised of Objects in Dreyer's catalogue marked *rr*, *rrr*, and $\odot$. It also contains the objects on Messier's List - not already entered in the preceding table p. 54.

15
52
16
14

1686, 1763

1744, 2130, 1764, 2130

P
ET

1/2
1/2

9

Dr.	GB	Yb	M.	H.K.	Pol.	Dec.	Quans.	Summary	Description
891	527	v19	-	-	2	13.45	44.42.5	!B, vL, v m E, 22°	
1988	1191	-	-	-	5	29.4	+21 7.7	!!!, variable (?)	
224	116	-	31	-	0	35.7	+40.30.2	!!! ce B, e L, v m E (Andromeda)	
7650	4954	-	-	-	23	17.18	-58 33.8	p F, r S, R, g l b M, n p of 2	
598	352	v17	33	-	1	25.58	+39 56.2	!e B, e L, R, v g b M N	

2418

2452

2516

2148

Pleiades

R.A. Dec.
3 38 + 23 40

Plate Nos.

Quality

936, 964, 993, 1053, 1054, 1055, 1065, 1066, 1067, 1068, 1069, 1070, 1071,
 1072, 1073, 1074, 1075, 1076, 1077, 1078, 1089, 1090, 1092, 1114, 1126, 1127,
 1128, 1129, 1130, 1134, 1135, 1136, 1137, 1138, 1140, 1141, 1205, 1206, 1268, 1269,
 1274, 1286, 1289, 1314, 1315, 1369, 1370, 1371, 1374, 1375, 1381, 1382, 1383,
 1981, 1986, 2013, 2131, 2150, 2161, 2169, 2181, 2188, 2221, 2222, 2223, 2324,
 2329, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2457, 2534,
 2638,

For description of list see p. 96.

Or.	S.B.	W.	M.	H.K.	Alt.	Dec.	Orion	Summary	Description
103	51	—	—	—	0	17.6	+60	33.3	Cl, pS, pC, st 11...18
185	90	II 707	—	—	0	31.2	+47	34	pB, vL, iF, vG, mbM, r
110	53	—	—	—	0	19.3	+70	37.0	Cl, pR, iC, st 9...12
188	92	—	—	—	0	31.7	+83	38.5	Cl, vL, R, 150-200 st 10...18
146	71	—	—	—	0	25.2	+62	30.7	Cl, pL, iC, st 11-12, D*
189	43	—	—	—	0	31.7	+60	17.5	Cl, pL, R, st 11...15
266	149	III 153	—	—	0	42.2	+31	30.8	pB, pS, iE, pSbM, r*8854
221	117	—	32	—	0	35.1	+40	5.8	pB, vL, iF, R, pS, mbM, r
272	5119	—	—	—	0	43.7	+35	4.7	Cl, L, iC,
358	5143	—	—	—	0	56.6	+61	17.8	Cl, vL, Ri,
433	242	—	—	—	1	6.5	+59	33.1	Cl, S, iC
366	195	—	—	—	0	57.8	+69	25.9	Cl, S,
436	244	VII 45	—	—	1	6.9	+58	3.9	Cl, S, iF, pC
372	5146	—	—	—	0	59.6	+31	40.6	Stillan, mbM, r
559	330	VII 48	—	—	1	20.2	+62	34.1	Cl, B, pL, pRi
381	204	VIII 64	—	—	0	59.7	+60	36	Cl, pL, pRi
603	357	—	—	—	1	26.5	+29	28	Snct or Cl with 3 st, inv.
609	5187	—	—	—	1	27.6	+63	49.9	Cl, S, pRi, st 14...
637	378	—	—	—	1	32.1	+63	19.5	Cl, pS, B+ vF st
654	387	III 46	—	—	1	34.5	+61	10.7	Cl, iF, Ri, inv*6%, st 11...14
657	388	—	—	—	1	34.7	+55	10.1	Cl, pRi, st 12
659	389	VIII 65	—	—	1	34.8	+59	59.4	Cl, iRi, st B
743	450	—	—	—	1	49.1	+59	29.2	Cl, not Ri, D* (h 1098)
744	451	—	—	—	1	49.1	+54	46.8	Cl, pL, pRi, iF, st 11...13
759	5202	—	—	—	1	49.6	+35	39.4	Cl, vS, R
886	522	—	—	—	2	12.8	+63	7.7	Cl, L, iC, sc, st 9...13
917	539	—	—	—	2	17.8	+31	36.4	vF, S, R, + st, inv (vS Cl)
956	552	—	—	—	2	23.5	+44	0.4	Cl, pRi, st 9...15
987	568	III 161	—	—	2	28.4	+32	43	F, S, vL, E, bM, r, 2 st 14-19
1003	571	{II 238- III 198}	—	—	2	30.4	+40	15.8	pF, L, E 90° ± mbM, r
1027	578	VIII	—	—	2	32.0	+60	56.6	Cl, L, sc st, one 10 m
1123	613	II 601	—	—	2	43.8	+41	37.6	cF, S, iR, vG, bM, r
1146	5291	—	—	—	2	48.2	+45	52.7	Cl, vS, vF, inv
1220	650	—	—	—	3	1.5	+52	48.1	Cl, vS, st vF
1348	720	VIII 84	—	—	3	23.7	+50	56.7	Cl, iRi, st I
1491	793	I 258	—	—	3	52.8	+50	53.1	vB, S, iF, bM, r, * inv.
1496	798	—	—	—	3	53.8	+52	14.2	Cl, segment of a ring
1502	802	VII 47	—	—	3	55.2	+61	56.1	Cl, pRi, oC, iF

Dr.	St.	Ch.	W.	H.	K.	Alt.	Dec.	Quar.	Summary Description
1548	833	-	-	-	-	^h + 11.8	^m + 36	^s 34.2	Cl, vL, l Ri, l C, st 10...12
1582	855	VIII 70	-	-	-	+ 22.2	+ 43	32.4	Cl, vL, p Ri, l C, st L
1605	871	VI 26	-	-	-	+ 25.0	+ 44	56.2	Cl, vF, p S, C, st e S
1664	907	VIII 59	-	-	-	+ 41.0	+ 43	26.7	Cl, l Ri, l C, p L
1724	5347	-	-	-	-	+ 52.9	+ 49	17.6	Cl, v S, st + m b e
1790	1007	-	-	-	-	5 0.2	+ 51	52.9	Cl, group of 8 or 9 st 10
1798	-	-	-	-	-	5 1.1	+ 47	28.8	S, Cl, or Cl + m b
1883	1092	VII 34	-	-	-	5 15.5	+ 46	24.1	Cl, vF, p Ri, p C, i F
2013	1216	-	-	-	-	5 32.7	+ 55	43.2	Cl, v l Ri, st 11
2126	1323	VIII 68	-	-	-	5 52.1	+ 49	53.8	Cl, not Ri, * 7 m north
2165	1357	-	-	-	-	6 0.0	+ 57	42.1	Cl, p L, p r, st 11
2192	1381	VII 57	-	-	-	6 5.4	+ 39	53.6	Cl, c L, C, i F, st v S
2240	1421	VIII 49	-	-	-	6 23.5	+ 35	17.7	Cl, p L, P, v l C, st 7, 10...15
2277	5365	-	-	-	-	6 38.6	+ 33	35.5	Cl, v S, l Ri
2284	5367	-	-	-	-	6 40.0	+ 33	21.4	F, r
2340	1497	II 736	-	-	-	7 0.2	+ 50	23.6	p F, S, R, g l b M, r
2403	1541	V 44	-	-	-	7 23.2	+ 65	53.8	!! B, e L, v m E, v g m b M N
2408	1542	-	-	-	-	7 24.6	+ 71	58.4	Cl, v l C,
2415	1546	II 821	-	-	-	7 27.7	+ 35	31.6	p B, C S, R, v g l b M, r, al m O
2426	1554	II 822	-	-	-	7 32.4	+ 52	39.2	C F, R, v g l b M, r, * 87
2464	1584	-	-	-	-	7 45.0	+ 57	2.0	p S, Cl, st c F, nebulous
2500	1607	III 709	-	-	-	7 51.4	+ 51	7.9	F, L, R, v g l b M, p, am st
2532	1626	II 726	-	-	-	8 1.3	+ 34	21.8	p B, p L, R, v g l b M, r, 2 st m f
2604	1665	III 292	-	-	-	8 24.8	+ 30	0.8	v F, p L, R, l b M, r, D * n r
2619	1676	II 319	-	-	-	8 29.0	+ 29	10.7	F, p S, R, b M, r
2649	1689	II 727	-	-	-	8 35.3	+ 35	12.7	F, L, R, r
2666	1700	-	-	-	-	8 40.3	+ 47	34.3	Cl, l C
2668	-	-	-	-	-	8 40.4	+ 37	14.0	v F, v S, R, r
2755	1758	III 626	-	-	-	8 58.9	+ 42	15.5	v F, S, i F, l b M, r
2770	1768	II 490	-	-	-	9 2.0	+ 33	41.6	F, L, m E 150°, r, 2 st w

W

7

f

Dr.	GB	YB	M.	W.K.	Dr.	Chair.	Summary Description
2776	1772	-	-	-	9	^h 2.9+45° 31.7	pB, L, R, v g b M, r
2787	1781	I 216	-	-	9	⁶ 6.5+69 47.0	B, pL, lE 90°, mb M, r, vS*sf, ino
2922	-	-	-	-	9	38.2+38 19.2	vF, S, iR, l b M, r
2955	1891	III 541	-	-	9	32.8+36 31.0	cF, pS, iR, g l b M, r
2965	1897	III 751	-	-	9	34.8+36 53.4	eF, vS, R, b M, r
2978	1924	II 717	-	-	9	40.0+44 44.5	pF, pL, E 51°, b M N, r
3000	1928	-	-	-	9	40.2+44 47.6	vF, S, iR, r
3003	1931	V 26	-	-	9	40.2+34 3.8	!cB, L, v m E 90°
3009	1933	-	-	-	9	41.0+44 58.2	pF, R, b M, r, p f 2
3027	1947	V 23	-	-	9	43.2+72 51.6	vF, vL, lE, r
3031	¹⁹⁴⁹ {1953}	-	81	-	9	43.9+69 43.3	!cB, eL, E 156°, g s v m b M B N
3061	1970	II 903 ²	-	-	9	48.7+76 49.8	vF, pL, r
3158	2030	II 639	-	-	10	5.5+39 27.4	cB, cS, R, ps b M, r
3167	2039	-	-	-	10	6.6+30 17.3	F, S, ? vS cl of vF st
3188	2056	III 910	-	-	10	⁹ 10.8+38 6.9	vF, pL, r
3218	2081	I 283	-	-	10	14.4+75 22.1	cB, cL, er [Phase??]
3231	2092	-	-	-	10	16.4+67 30.9	Cl, cL, P, lC, st 10...12
3252	2111	III 316	-	-	10	20.8+74 32.8	eF, pS, mE, r
3364	2190	III 318	-	-	10	38.0+73 9.9	vF, L, R, v g b M, r, D* sf
3382	-	-	-	-	10	40.6+37 28	F, S, iR, ? S Cl
3542	-	-	-	-	11	2.2+37 42.3	vF, S, i r r R, l b M, r
3543	2314	III 920	-	-	11	⁵ 2.29+62 6	eF, vS, E 0°±, r
3545	-	-	-	-	11	2.5+37 43.9	vF, vS, i r r R, l b M, r
3556	2318	V 46	-	-	11	3.3+56 26.0	cB, vL, v m E 79°, p b M, r
3587	2343	-	97	-	11	6.7+55 46.7	!! O, vB, vL, R, vrg, vs b M, 150° d
3614	2363	II 729	-	-	11	10.5+46 30.9	F, pL, lE, 90°±, g l b M, r
3669	2408	II 829	-	-	11	17.4+58 29.1	vF, pL, p m E 135°± er
3687	2424	II 770	-	-	11	20.5+30 17.1	pB, pS, R, l b M, r
3725	2444	II 836	-	-	11	25.7+62 38.5	cF, S, R, g v l b M, r
3770	2472	II 838	-	-	11	30.2+60 23.4	pF, S, R, g b M, r

2903, 2904,

Dr.	G.B.	H. M.	H. K.	Alt.	Dec.	Quadr.	Summary	Description
3780	2476	I 227-	-	11	31.7+57.2.7		P, L, v, l, E, v, g, b, M, r	
3901	2567	III 970 -	-	11	42.0+78.53		P, F, p, L, r.	Claw doubtful
3945	2602	I 251 -	-	11	45.8+61.27.1		B, p, L, R, g, m, b, M, r	*1259
4131	5620	-	-	12	0.2 ⁹ +65.53.6		F, v, S, l, E, r	
4141	2746	III 795 -	-	12	2.5+59.38		v, F, p, S, l, E, g, b, M, r	
4142	2747	III 814 -	-	12	2.5+53.53.9		v, F, S, i, F, v, g, l, b, M, e, r	
4190	2784	II 409 -	-	12	6.6+37.24.5		c, F, p, S, R, v, g, l, b, M, r	
4242	2830	III 725 -	-	12	10.5 ⁴ +46.24.2		v, F, c, L, i, R, v, g, b, M, r	
4245	2832	I 74 -	-	12	10.5+30.23.1		c, B, p, L, v, l, E, s, m, b, M, r	
4278	2855	{ ^{I 90} II 322}	-	12	13.1+30.3.5		v, B, p, L, R, m, b, M, r	1st of 3
4288	2864	III 726 -	-	12	13.7+47.3.6		v, F, p, S, R, v, g, b, M, r	
4362	2918	III 800 -	-	12	17.3+59.8.5		v, F, c, S, R, r	
4369	2924	I 166 -	-	12	17.6+40.9.3		c, B, S ^R , m, b, M, N, r	
4490	3042	I 178 -	-	12	23.8+42.25.2		v, B, v, L, m, E 130°, r, s, f, of 2	
4510	5659	-	-	12	25.4+65.02		Cl, v, S, st, F, m, C	
4513	5660	-	-	12	25.8+67.6.5		F, R (? v, S, Cl)	
4534	3083	II 410 -	-	12	27.2+36.17.8		c, F, L, l, E, v, g, l, b, M, r	
4631	3165	V 42 -	-	12	35.4+33.19.1		! v, B, v, L, c, E 70°±, b, M, N, *12,	att n
4656	3189	I 176 -	-	12	37.2+32.5.6		! p, B, L, r, m, E 34°, s, f, of 2	
4657	3190	I 177 -	-	12	37.3+32.59.2		! p, F, L, E 90°±, m, f, of 2	
4662	3195	II 643 -	-	12	37.7+37.5.4		p, F, p, L, R, g, b, M, r	
4736	3258	- 94 -	-	12	44.3+41.5.3		v, B, L, i, R, v, s, r, m, b, M, B, N, r	
5053	3472	VI 7 -	-	13	9.5+18.24.8		Cl, v, F, p, L, i, R, v, g, b, M, st 15	
5194	3572	- 51 -	-	13	24.0+47.55.1		!!! Great Spiral Grb	
5204	3575	IV 63 -	-	13	24.9+59.8.5		p, B, c, L, i, R, g, m, b, M, r	
5265	3630	III 410 -	-	13	34.0+37.34.5		F, c, S, v, l, E, e, r	
5385	3724	-	-	13	67.3+76.5.2		Cl, P, S	
5407	3741	III 684 -	-	13	54.8+39.50.7		v, F, v, S, R, b, M, in Cl	
5466	3776	VI 9 -	-	13	59.2+29.11.8		Cl, L, v, R, i, v, m, C, st 11...	
5526	3820	{ ^{III 804} III 835}	-	14	9.3+58.25.6		v, F, S, E, r	

1899phae.proj.1725.

v

l

SP

l³

2

12₁

2

r

15

l

2927,

~~2906,~~

2902, 2908,

Dr. G. E. H. M. W. K. P. A. Dec. Davis.					Summary Description
5571	-	-	-	14 13.6 + 33 48	S. Cl. of Fbt in mb.
5583	3856	I 235	-	14 15.3 + 57 21.9	pF, L, iR, v, g, mbM, r
5607	3875	II 331	-	14 17.7 + 72 12.5	pF, cS, iR, bM, or
5616	3884	III 419	-	14 18.5 + 57 5.9	vF, S, cE, v, g, bM, or
5623	3891	II 329	-	14 21.2 + 33 52.8	cF, S, R, v, S, iR, bM, r
5656	3917	II 421	-	14 24.6 + 35 57.0	pF, pL, R, mbM, r
5676	3935	I 189	-	14 27.9 + 50 4.7	B, L, E 45° ±, p, g, bM, r
5687	3940	II 808	-	14 30.4 + 55 6.1	pF, S, iF, r, * 10 f
5695	3948	II 423	-	14 31.6 + 37 10.4	pB, cS, R, bM, r
5696	3951	II 648	-	14 31.6 ± + 42 24	cF, cS, R, bM, r
5700	-	-	-	14 32.2 + 49 7	cF, S, r, * 11 SP 4'
5712	3963	III 950	-	14 33.0 + 79 26.3	vF, S, R, S, Cl, p
5739	3984	I 171	-	14 37.2 + 42 25.6	pB, S, R, mbM, r, * n r
5807	5775	-	-	14 53.0 + 64 28.2	vF, vS, r
5832	4034	II 332	-	14 57.5 + 72 14.7	pB, cL, iR, b, p, r
5879	4064	II 757	-	15 6.2 + 57 32	cB, S, E, mbM, r, N, r
5888	4069	III 659	-	15 8.0 + 41 47	cF, vS, R, bM, r
5893	4071	II 678	-	15 8.5 + 42 28.7	F, S, R, r, 3 st n r
5958	4113	II 399	-	15 29.0 + 29 8.6	pF, pL, iR, bM, r
5982	4128	II 764	-	15 35.8 + 59 48.6	cB, S, R, p, g, bM, r
5985	$\left\{ \begin{smallmatrix} 4131 \\ 4133 \end{smallmatrix} \right\}$	II 766	-	15 36.8 + 59 47	pB, cL, iE, r
6068	4163	III 973	-	16 2.7 + 79 21.3	vF, vS, iE 0°, r
6154	4201	III 680	-	16 22.1 + 50 11.2	vF, S, R, bM, or
6160	4204	II 652	-	16 23.0 + 41 14.7	cF, pL, R, g, bM, r
6451	4335	VI 13	-	17 41.7 - 30 10.2	Cl, pL, pRi, bifid, st ₁₂
6459	-	-	-	17 43.2 + 55 50	eF, cS, R, r
6645	4416	VI 23	-	18 24.5 - 16 59.1	Cl, pL, vRi, pC, st ₁₁ ...
6678	-	-	-	18 33.6 + 67 44.3	pF, pS, R
6720	4447	-	57	18 48.4 + 32 57.4	!!!, ©, B, pL, cE (in
6743	4463	-	-	18 56.0 + 29 4.4	Cl, pL, P, st ₁₁ ... 12

Dr.	G.B.	A.	Mo.	H.K.	Gr.	Dec.	Chain	Summary Description
6811	4505	-	-	-	19	34	+46 15.2	Cl, L, pRi, lC, st 11...14
6819	4511	-	-	-	19	36.5	+39 57.5	Cl, vL, vRi, st 11...15
6834	4518	VIII 16	-	-	19	46.6	+29 2.9	Cl, P, lC, st 11...12
6839	4521	VI 16 ²	-	-	19	48.2	+17 31.6	Cl, vS, vC
6856	4535	-	-	-	19	56.2	+55 44.8	Cl, pS, pRi, iR, st R...16
6871	4548	-	-	-	20	0.6	+35 22.8	Cl, st L and S, * inv
6874	4551	VIII 86	-	-	20	2.7	+37 50.4	Cl, P, lC
6883	4558	-	-	-	20	6.0	+35 25.7	Cl, pRi, * inv
6894	4565	IV 13	-	-	20	10.8	+30 8.2	!! @, F, S, v v l E
6895	4566	VIII 83	-	-	20	12.4	+49 47.9	Cl, pRi, lC
6896	4567	-	-	-	20	12.4	+30 12.6	Cl (turb), S, st vs
6913	4576	-	29	-	20	18.9	+38 3.9	Cl, P, lC, st L and S
6960	4600	V 15	-	-	20	39.9	+30 12.8	!! pB, cL, ei F, R, k, g, i, n
6989	4613	VIII 82	-	-	20	49.2	+44 44.5	Cl, cL, st pS
6991	4615	VIII 76	-	-	20	49.9	+46 44.6	Cl, L, P, v l C
6992	4616	V 14	-	-	20	50.6	+31 9.8	!! e F, e L, ^{bifurcated} e F, e L
6996	4619	-	-	-	20	51.5	+44 20.0	Cl, P, lC
6997	4620	VIII 58	-	-	20	51.6	+44 6.6	Cl, P, lC, st L
7011	4630	-	-	-	20	57.1	+46 46.2	Cl, no description
7024	4638	VIII 57	-	-	21	0.8	+40 56.0	Cl, P, lC, st 10...
7031	4640	VIII 74	-	-	21	2.8	+50 16.8	Cl of triple st, lC
7037	4643	-	-	-	21	5.0	+33 9.2	Cl, pRi, i F, st 11...15
7044	4648	VI 24	-	-	21	7.8	+41 55.6	Cl, v F, pL, vRi, vC, st ¹⁵ ¹⁸
7050	4652	-	-	-	21	9.8	+35 36.7	Cl, no description
7055	4655	-	-	-	21	15.4	+57 0.2	Cl, F, pS, P
7058	4657	-	-	-	21	16.3	+50 12.9	Cl, P, lC
7062	4661	VII 51	-	-	21	18.8	+45 46.9	Cl, pS, pRi, pC, st 13...
7063	4662	-	-	-	21	18.8	+35 54.3	Cl, P, st 10...
7067	4664	VIII 50	-	-	21	19.6	+47 25.2	Cl, P, ? inv
7071	4666	-	-	-	21	21.5	+47 19.6	Cl, S, C, c E

Dr.	St.	H. No.	H. K.	St. Dec.	Chair.	Summary Description
7082	4673	VII 52	-	-	21 24.4 + 46 28.9	Cl, L, CR ₁ , ^{IC} St 10...13
7086	4676	VI 32	-	-	21 23.7 + 50 58.1	Cl, cL, vRi, pC, st 11...16
7093	4682	-	-	-	21 29.1 + 45 22.9	Cl, P, IC
7127	4700	-	-	-	21 39.2 + 53 58.6	Cl, S, P, IC
7128	4701	VII 40	-	-	21 39.3 + 53 3.7	Cl, S, pRi, has a ruby *95
7129	4702	IV 75	-	-	21 39.8 + 65 27.7	! cF, pL, g b M * *
7139	4706	III 696	-	-	21 42.2 + 63 10.5	vF, cS, R, r
7160	4719	VIII 67	-	-	21 49.8 + 61 57.0	Cl, P, vL, IC
7175	4732	-	-	-	21 53.9 + 54 9.2	Cl, vL, pRi, IC
7223	4764	III 862	-	-	22 4.3 + 40 19.2	cF, pS, lE, r, am 3 st
7234	4771	VIII 63	-	-	22 7.1 + 56 17.1	Cl, S, P, IC
7235	4772	-	-	-	22 7.6 + 56 34.8	Cl, pC, has a ruby *10
7245	4774	VI 29	-	-	22 10.0 + 53 38.0	Cl, C, st 0 S
7261	4783	-	-	-	22 15.4 + 57 23.1	Cl, L, pRi, IC
7281	4791	-	-	-	22 19.6 + 57 7.6	Cl, L, pRi, IC, st 10...16
7295	4796	-	-	-	22 22.4 + 52 6.6	Cl, P, IC, st 12...13
7296	4797	VIII 41	-	-	22 22.6 + 57 35.2	Cl, iR, IC, st vS
7332	4826	-	-	-	22 34.2 + 56 40.0	Cl, vL, pRi, vL, IC
7380	4842	VIII 77	-	-	22 41.4 + 57 20.9	Cl, pL, pRi, IC, st 9...13
7394	4852	-	-	-	22 44.6 + 51 26.1	Cl, vP
7419	4864	VII 43	-	-	22 48.8 + 60 4.9	Cl, pRi, cC
7429	4869	-	-	-	22 50.3 + 59 14.6	Cl, P, pC, st 9...11
7438	4874	-	-	-	22 51.6 + 53 36.1	Cl, vL, E
7446	-	-	-	-	22 53.0 + 38 19.9	cF, vS, R, r
7457	4883	II 212	-	-	22 54.3 + 29 23.6	cB, cL, lE, g m b M, r, 2 S, ^{st n}
7510	4902	VII 44	-	-	23 5.4 + 59 48.6	Cl, pRi, pC, ^{PB} fan-sh, st,
7640	4950	II 600	-	-	23 15.4 + 40 5.1	cF, L, mE 164, vLb M, r
7662	4964	IV 18	-	-	23 19.2 + 44 46.0	!!! On @, vB, pS, R, the
7680	4972	III 860	-	-	23 21.7 + 31 38.8	vFS, R, lb M, r
7686	4976	VIII 69	-	-	23 23.5 + 48 21.2	Cl, P, IC, st 7...11

Dr.	H	No.	H	K.	RA	Dec.	Q	Summary	Description
7708	4990	VIII 62	-	-	23	28.3 + 72 8.6	^{h m}	Cl, L, P, IC, st 8, 10... 15	
7723	4998	I 110	-	-	23	31.7 - 13 44.2		CB, cL, E, embM, r	
7762	5016	VII 55	-	-	23	43.1 + 67.14.2		Cl, pRi, pC, st 11... 15	
7788	5030	-	-	-	23	49.7 + 60 36.7		Cl, S, pRi, vC, st 11... 13	
7790	5032	VII 56	-	-	23	50.0 + 60 26.2		Cl, pRi, pC	
7795	5034	-	-	-	23	51.6 + 59 14.3		Cl, vL, P, IC, st 7, 10...	
7801	5040	-	-	-	23	53.3 + 49 36.4		Cl, pRi, pC, st 9...	
7822	5051	-	-	-	23	57.6 + 67 53.7		! ee F, ee L	
	5365								

5659

This table is comprised of objects in Dreyer's Catalogue marked Cl, cr, gr, mm, r, !, " and " north of Dec. +30°. It also contains objects in Herschel's Class VI not entered in preceding lists. p 54 and 64.

2906,

2926,

Clusters

The following clusters have been taken sufficiently
except for one plate per month $\pm$.

N.C. 104, 47 Dec.
" 5139 W Cent.
" 5272 M 3 -
" 5904 M 5.

The following clusters (and any others which may
be later found to contain several variables) need
to be photographed in sets, — several times per
night or two nights. The 13" had better be
used when the cluster can be photographed in
1^h $\pm$ and if faint, the Bruce.

N.C. 362
" 1904
(" 5272 - M 3 - (In sets in Bruce?)
" 6266
" 6626
" 6656
" 6723
" 7078
" 7089
" 7099

Feb. 1899. Copy of instructions taken to Peru
D.B. Feb. 22 '99

Double Stars to be measured on X Plates.

No. Plate.	No. Plate.	No. Plate.	No. Plate.	No. Plate.	No. Plate.	No. Plate.	No. Plate.	No. Plate.
1128	1571	1618	1651	1774	1810	1844	1876	1907
1138	1572	1619	1652	1775	1811	1845	1877	1908
1146	1573	1620	1653	1776	1812	1846	1878	1909
1508	1574	1621	1656	1777	1813	1847	1879	1910
1536	1575	1622	1657	1778	1814	1848	1880	
1540	1576	1623	1658	1779	1815	1849	1881	
1541	1578	1624	1659	1780	1816	1850	1882	
1543	1580	1625	1660	1782	1817	1851	1883	
1545	1582	1626	1662	1783	1818	1852	1884	
1546	1585	1628	1663	1784	1819	1853	1885	
1547	1593	1629	1664	1785	1820	1854	1886	
1548	1594	1630	1665	1786	1821	1855	1887	
1549	1595	1631	1666	1787	1822	1856	1888	
1550	1596	1632	1667	1788	1823	1857	1889	
1551	1597	1633	1674	1789	1824	1858	1890	
1552	1598	1634	1675	1790	1825	1859	1891	
1555	1599	1635	1676	1791	1826	1860	1892	
1556	1600	1636	1681	1794	1827	1861	1893	
1557	1603	1637	1687	1795	1828	1862	1894	
1558	1604	1638	1688	1796	1829	1863	1895	
1559	1605	1639	1693	1797	1830	1864	1896	
1560	1606	1640	1695	1798	1831	1865	1897	
1561	1608	1641	1727	1799	1832	1867	1898	
1562	1609	1642	1732	1800	1836	1869	1899	
1563	1610	1643	1733	1801	1837	1870	1900	
1564	1611	1645	1734	1802	1839	1871	1901	
1566	1612	1648	1735	1803	1841	1872	1902	
1568	1613	1649	1736	1808	1842	1873	1905	
1570	1617	1650	1737	1809	1843	1874	1906	

Other Globular clusters not contained in List of clusters Book 4 p. 54. Series

^{150.} Other.	Summary Description
104	$\odot$!! vB, vL, v m CM.
288	$\odot$, B, L, vE, st 12...16
330	$\odot$, vB, S, vE, st 13...15
362	$\odot$, vB, vL, vC, v m b M, st 13-14
376	$\odot$, B, S, R,
628	$\odot$, F, vL, R, v g. ^s p m b M, rr,
843	$\odot$, F, S, R,
1068	
1193	
1261	$\odot$, B, L, R, rr
1291	$\odot$, vB, pL, R, m b M, e r
1299	
1310	$\odot$, vF, pL, R, v g v l b M,
1379	$\odot$, B pL, R, g p m b M,
1387	$\odot$, vB, pL, R, g m b M,
1399	$\odot$ vB, pL, p s b M, rr,
1436	$\odot$ vB, p m E, p s b M,
1507	
1512	$\odot$, B, cL, R, b M, rr
1697	$\odot$, pB, L, R, rr
1707	
1711	$\odot$, B, S, iR, rrr, st 14
1722	
1782	$\odot$ pB, S, R, p m b M, rr
1792	
1810	$\odot$ f, cF, S, R, l b M.
1818	$\odot$, vB, pL, R, v m C, rr
1961	

after 1900 p. 2

Oreyer, Globular Clusters not contained in List of Clusters. Book 4 p 54 2 Series

No. Oreyer.	Summary Description.
1850	$\Theta, \nabla B, L, 1E, \nabla m c M, r r$
1851	$\Theta, \nabla B, \nabla L, R, \nabla s \nabla b M, r r r$
1854	$\Theta, c B, S, R, g b M, 2nd of 3$
1902	$\Theta, p B, p L, R, P m b M, r r$

Dreyer, Globular clusters not contained in List of Clusters Book 4 p 56 & since

No. Dreyer	Summary Description
3004	$\odot, B, pL, pRi, C, st 12$
2031	$\odot, B, pL, R, g b M, r r$
2090	$\odot, B, pL, iR, g b M$
2098	$\odot, B, r r$
2075	
2100	$\odot, B, pL, i r r R, r r$
2092	
2118	$\odot, vB, vS, v s m b M, r r$
2113	
2134	$\odot, B, pL, R, s m b M, r$
2117	
2136	$\odot, pB, R, g m b M, r r, st 14 \dots 16$
2157	$\odot, vB, s R, v g v m b M, r r$
3341	
3368	$\odot, vB, R, m c M, r r$
2164	
2317	
3398	$\odot, B, pL, iR, g b M, r r$
4374	
4372	$\odot, pF, L, R, st 12 \dots 16$
4579	
4590	$\odot, L, eRi, vC, iR, r r r, st 12$
4621	
4833	$\odot, B, L, R, g, v s b M, st 12$
4486	!!! $\odot \omega Centauri$
5139	
5236	
5286	$\odot, vB, pL, R, r r r, st 15$
4552	
5634	$\odot, vB, cL, R, g b M, r r r, st 19 * \delta sf$
4569	
5897	$\odot, pF, L, v i R, v g b M, r r r,$
5457	
5927	$\odot, cB, L, R, v g b M, r r r, st 15$
4487	
5946	$\odot, cB, pL, R, v g l b M, r r r, st 16$
5986	$!, \odot, vB, L, R, v g b M, st 13 \dots 15$
6093	!! $\odot, vB, L, v m b M (var *) r r r, st 14$

See page 4. Inert. to 4027

Oeyer, Globular, Clusters not contained in List of Clusters. Book 4 p 177 Kenzie

Oeyer

Summary Description

2467

$\odot$ pB, pL, R, rrr, st 20

2537

2481

$\odot$ vL, cRi, vgeCM, 45° d, st 13...15

2808

2597

$\odot$ EL, R, vglbM, rR, 2Bst, sp

2566

3041

2973

$\odot$ vL, iR, lCM, st 13...16

2650

3201

2664

$\odot$ and neb, st 15...18

2726

3603

2742

$\odot$ pE, pL, R, rR, st 16

2849

4027

$\odot$ pE, L, R, st 12...16

2813

44562

4536

4617

3222

4711

4999

3304

5019

5239

3398

5265

5331

3423

5494

5501

3481

5607

5616

3504

5970

6075

3926

6121

6139

3938

6144

6154

4163

6177

6192

4449

6193

6204

4454

6235

6242

4484

6250

6320

4504

see p 5

Deirer, Globular Clusters not contained in List of Clusters Book 4 p. 57 Series

Deirer Summary Description

6101 $\oplus$, pF, L, iR, vgbM, rrr, st 14

6221 $\oplus$, pB, cL, R, g 1bM, rrr

6229 $\oplus$, vB, L, R, disc. & F border, r

6256 $\oplus$, vF, vL, iR, vgbM, rrr,

6294 $\oplus$, p, F, S, v g bM

6304 $\oplus$, B, cL, R, 1bM, rrr, st 16

6316 $\oplus$, cB, pS, R, g vmbM, rrr, st 16

⁶³⁴²
~~6356~~ $\oplus$, vB, cL, vgvmbM, rrr, st 20

6362 $\oplus$, cB, L, v gmbM, rrr, st 14...17

6388 $\oplus$, vB, L, R, pg. psvmbM, rrr, st 17...

6397 $\oplus$, B, vL, Ri, st 13

⁶⁴⁰⁵
6412 $\oplus$, cL, R, vgbM, rrr

6441 $\oplus$, vB, pL, R, v gmbM, rrr, st 18

⁶⁴⁷⁵
6528 $\oplus$, pF, cS, R, g bM, rrr st 16

⁶⁵¹⁷
6541 $\oplus$, BR, eC, g bM, rrr, st 15...16

⁶⁵⁵¹
6553 $\oplus$, F, L, 1E, v g 1bM, rrr, st 20

⁶⁵⁵⁶
6558 $\oplus$, pB, pL, R, g 1bM, rrr, st 16

6569 $\oplus$, cB, L, R, rrr, st 15-

6584 $\oplus$, cB, cL, R, gmbM, rrr, st 15-

6624 $\oplus$, vB, pL, R, rrr st 16

Orion, Globular Clusters not contained in List of Clusters Book of p. 54 & Series

Orion

Summary Description

6637

$\odot, B, L, R, rrr, st 14 \dots 16$

6638

$\odot, B, S, R, rr$

6642

$\odot, pB, pL, iR, gpm bM, rrr, st 16$

6652

6681

$\odot, B, pL, R, g bM, st 14 \dots 17$

66723

$\odot, vL, vLE, vg bM, rrr, st 14 \dots 16$

66712

$\odot, pB, vL, iRR, vg l bM, rrr,$

66715

$\odot, vB, L, R, g, sm bM, rrr, st 15$

66752

$\odot, B, vL, iR, rrr, st 11 \dots 16$

66804

66809

$\odot, pB, L, R, vR, vg bM, st 12 \dots 15$

66864

$\odot, B, pL, R, vmbMBN, rr$

66946

66934

$\odot, B, L, R, rrr, st 16 \dots, * 9 \mu$

66981

66989

$!! \odot, B, vL, gpm bM, rrr, st eS$

66994

$\odot, pL, iR, rr$

7214

7217

72076

7184

7197

7317

7231

7252

7423

7443

7751

7444

N.B.

3	159	231 244 ²	324	433 [✓]	609 [✓] Cl.	869 [✓] Cl.	1193 [✓] er	1507 [✓] er
11	160	245	322	436 [✓] 446	615 [✓] r	884 [✓] "	1201 [✓] r	1508 [✓] r
13	161	246 249 ²	324	449	636 [✓] r	886 [✓] Cl.	1204 [✓] r	1516 [✓] er
22 ²	162	250 251	341 ²	453 455	637 [✓] Cl.	891 [✓] "	1220 [✓] Cl.	1517 [✓] r
33	165	253 ² 253	346 ²	456 ²	654 [✓] "	899 [✓] r	1232 [✓] r	1520 [✓] Cl
34	171	257 ²	358 [✓]	457 [✓]	656 [✓] r.	917 [✓] Cl.	1245 [✓] Cl	1528 [✓] "
42	174	258	366 [✓]	460 ²	657 [✓] Cl.	956 [✓] Cl.	1253 [✓] "	1535 [✓] r
68	175 ²	266 [✓]	367 [✓]	462	659 [✓] "	957 [✓] "	1280 [✓] r	1540 [✓] r
72	176 ²	267	371	468	660 [✓] r	963 [✓] r	1299 [✓] er	1546 [✓] Cl.
82	185 ²	268 ²	372 [✓]	497 [✓] r	661 [✓] "	987 [✓] r	1313 [✓] r	1548 [✓] Cl.
88	188 [✓]	273 [✓]	374	522 [✓] Cl.	663 [✓] Cl	1003 [✓] "	1338 [✓] r	1554 [✓] !!!
98 ²	189 [✓]	278	381 [✓]	550 [✓] r	664 [✓] r	1027 [✓] Cl	1342 [✓] Cl.	1555 [✓] !!!
103 [✓]	190	279	390	559 [✓] Cl.	686 [✓] er	1035 [✓] r	1348 [✓] "	1557 [✓] !!!
144	207	291	391 ²	581 [✓] Cl.	701 [✓] r	1039 [✓] Cl.	1365 [✓] !!	1580 [✓] r
109	210 ²	292	392	587 [✓] Cl.	743 [✓] Cl.	1073 [✓] er	1376 [✓] r.	1582 [✓] Cl.
110 [✓]	213	294 ²	393	593 [✓] "	744 [✓] "	1104 [✓] r	1421 [✓] r	1587 [✓] r
124	214 ²	299 ²	398	598 [✓] "	752 [✓] "	1123 [✓] r	1444 [✓] Cl.	1588 [✓] r
129 ²	215	305	401	599 [✓] er	759 [✓] "	1134 [✓] r	1491 [✓] r	1605 [✓] Cl
132 ²	221 [✓]	310	405	602 [✓] r	772 [✓] r	1146 [✓] Cl.	1496 [✓] Cl.	1636 [✓] r
146 [✓]	224	316	427	603 [✓] Cl.	822 [✓] "	1153 [✓] er	1498 [✓] Cl.	1641 [✓] Cl.
157	225 [✓]	322	428	606 [✓] r	852 [✓] "	1187 [✓] r	1502 [✓] Cl.	1647 [✓] Cl.

A. B. B.

1662 Cl.	<u>1778</u> Cl.	1848 Cl	1896 Cl	1960 ^v Cl	2001 Cl
1663 Cl.	1783 n	1855 "	1901 "	~~1961~~ 1962 ^v !	2002 "
<u>1664</u> Cl.	1787 Cl.	<u>1857</u> v.	1905 n	1963 Cl	2003 n
1676 n	<u>1790</u> v.	1858 "	<u>1907</u> Cl	1965!	2006 Cl
1680 n	<u>1798</u> v.	1862 n	1910 "	1966 Cl	2009 "
1702 Cl.	1802	1863 n	<u>1912</u> v.	1968.	<u>2013</u> v.
1704 n.	1807 "	1864 n	1916 n	1969 gn.	2014.
<u>1708</u> Cl	1813 n	1866 n	1919 Cl	1971 "	2015 "
1712 "	1814 Cl.	1869 Cl	1921 n	1972!	2017
1722 "	1816 "	1871 "	1925 Cl	1974 Cl	2021 "
<u>1724</u> v.	1817 "	1873 "	1926 n	1976!!!	2024!
1727 "	1820 .	1874 "	1929 gn.	1977!!	2025 n
1731 "	1823 "	1877 "	1934 gn	1981 Cl.	2026 Cl
1736 n	1829 n	1878 n	1936!	1982!	2027 "
1743 n	1831 n	1880 Cl	1946 n	1983 Cl	2029 "
1746 Cl.	1837 Cl.	1882 n	1948 Cl	1984 "	2033 "
1747 Cl.	1838 .	<u>1883</u> Cl	1950!	1988!!!	2034 "
1750 "	1840 n	1888 n	1952 n	1990!!!	2037 "
1758 "	1841 n	1891 Cl	1955 Cl	1991 Cl	2039 Cl.
1761 "	1845 Cl	<u>1893</u> v.	1958 !	1994 Cl	2040 n
1770 "	1846 n	1894 n	1959!	1996 Cl	2042 Cl.

On S.L.

2043 ^{gr}	2044 Cl.	2132 Cl.	2217 n	2265 Cl	2323' Cl	2367 Cl.
2050 "	2135 n	2218 Cl	2266 Cl	2324 "	2368 "	
2055 "	2143 Cl	2219 Cl	2269 Cl	2331 "	2374 Cl	
2061 "	2145 n	2220 "	2270 "	2335 "	2383 Cl	
2063 Cl.	2158 Cl	2224 Cl	2272 n	2338 "	2384 "	
2068 n	<u>2165</u> Cl	2225 "	<u>2277</u> Cl	<u>2340</u> n	2394 Cl	
2070 !!!	2168 Cl	2232 "	<u>2281</u> Cl	2343 Cl	2395 "	
2078 gr.	2169 "	2234 "	<u>2284</u> n	2345 "	2396 "	
2079 gr.	2177 n	2236 "	2286 Cl	2348 "	2399 } cl. 2400 }	
2081 Cl.	2180 Cl	2239	2287 "	2349 "	2401 cl.	
2083 gr.	2184 "	<u>2240</u> ✓	2299 "	2351 "	<u>2403</u> ✓	
2084 "	2186 Cl	2244	2301 "	2352 "	<u>2408</u> Cl. ✓	
2095 Cl	2189 "	2248 Cl	2302 "	2353 "	2409 Cl.	
<u>2099</u> Cl	<u>2192</u> ✓	2250 "	2304	2354 "	2413 Cl	
2110 n	2194 "	2251 "	2306 Cl.	2355 "	2414 Cl.	
2112 Cl	2198 "	2252 "	2309 "	2356 "	<u>2415</u> n ✓	
2113 "	2202 Cl.	2254 "	2311 "	2358 "	2417 n	
2122 "	2203 n	2259 "	2312 "	2359 !!	2420 Cl.	
2124 n	2204 Cl	2260 "	2316 n	2360 Cl.	2421 Cl	
<u>2126</u> Cl.	2210 n	2262 "	2318 Cl	2362 "	2422 "	
2129 "	2215 Cl.	2264 "	2319 Cl	2364 Cl.	2423 "	

L.G.B.

2425 Cl.	2483 Cl	2577 r	<u>2666</u> lb.	2866 Cl.	3007 r
<u>2426</u> r	2489 Cl.	2578 r	<u>2668</u> r	2867 !	<u>3009</u> r
2428 Cl.	<u>2500</u> r	2580 Cl.	2669 Cl.	2889 r	3020 r
2430 "	2506 Cl.	2587 "	2670 "	2894 r	3024 r
2432 "	2507 r	2588 "	2671 "	2903 r	<u>3027</u> r
2437! Cl.	2509 Cl.	2595 r	2678 "	2905 r	<u>3031</u> r
2438 r	2513 r	<u>2604</u> r	2682! Cl.	2910 Cl.	3033 Cl.
2439 Cl.	2516 Cl.	2608 r	<u>2726</u> r	<u>2922</u> r	3036 "
2447 "	2520 Cl.	2609 Cl.	2736!	2925 Cl.	3040 r
2448 "	2527 Cl.	2615 r	<u>2744</u> r		3055
			<u>2753</u> r	2932 "	3060 r
2449 r	<u>2532</u> r	<u>2619</u> r	2764 r	<u>2955</u> r	<u>3061</u> r
2451 Cl.	2533 Cl.	2623 r	2765 r	<u>2965</u> r	3105 Cl.
2453 Cl.	2539 Cl.	2627 Cl.	<u>2770</u> r		
			2775 r	2972 Cl.	3110 r
2453 Cl.	2540 r	2635 "	<u>2776</u> r	2982 "	3114 Cl.
<u>2464</u> r	2546 Cl.	2645 "	<u>2787</u> r	2983 r	3122 r
2467 r	2547 Cl.	<u>2649</u> r	2792!	2995 Cl.	3129 r
2477! Cl.	2548 Cl.	<u>2650</u> r	2802 r	2997!	3132!!
2478 Cl.	2554 r	2658 Cl.	2803 r	<u>2998</u> r	3153 r
2479 "	2566 r	2659 Cl.	2818!	2999 Cl.	<u>3158</u> r
2481 r	2567 Cl.	2660 Cl.	2824 Cl.	<u>3000</u> r	3162 r
2482 Cl.	2571 Cl.	2664 "	2846 "	<u>3003</u> !	<u>3167</u> Cl.

A. G. B.

<u>3188</u> ^v _n	3368 _n	<u>3587</u> ^v !!	3802 _n	4105 _n	4262 _n	4440 _n
3195!	3370 _n	3590 bl.	3805 _n	<u>4121</u> ^v _n	<u>4278</u> ^v _n	4450 _n
3199!	3372!	<u>3614</u> ^v _n	3860 _n	4124 _n	<u>4288</u> ^v _n	4453 _n
3213 _n	3379 _n	3653 _n	3875 _n	<u>4141</u> ^v _n	4293 _n	4454 _{ev}
<u>3218</u> ^v _{ev}	<u>3382</u> ^v bl.	3659 _n	3876 _n	<u>4142</u> ^v _{ev}	4304 _n	4459 _n
3228 bl.	<u>3398</u> ^v _{ev}	<u>3669</u> ^v _n	3884 _n	4152 _n	4313 _n	4468 bl.
<u>3231</u> ^v ..	3446 bl.	3679 _n	3892 _n	<u>4163</u> ^v _n	4321 !!	4469 _n
3242 !	3450 _n	3680 bl.	<u>3901</u> ^v _n	4168 _n	4328 _n	4472 _n
<u>3252</u> ^v _n	3453 _n	3686 _n	3909 bl.	4180 _n	4337 bl.	4474 _n
3255 bl.	3481 bl.	<u>3687</u> ^v _n	3918!	4182 bl.	4349 bl.	4487 _{ev}
3293 .	3485 _n	3691 _n	3923 _n	4184 .	4361 _n	<u>4490</u> ^v _n
3299 _n	3496 bl.	3692 _n	3926 _{ev}	4189 _n	<u>4362</u> ^v _n	4504 _{ev}
3300 _n	3519 "	3705 _n	3929 bl.	<u>4198</u> ^v _n	<u>4369</u> ^v _n	4505 _n
3301 _n	3532 !, bl.	<u>3725</u> ^v _n	<u>3938</u> ^v _{ev}	4212 _n	4374 _n	<u>4510</u> ^v bl.
3303 _n	3535 _n	3766 bl.	<u>3945</u> ^v _n	4223 _n	4405 _n	<u>4518</u> ^v bl.
<u>3304</u> ^v _{ev}	<u>3542</u> ^v _n	<u>3778</u> ^v _n	3953 _n	4224 _n	4406 _n	4516 _n
3330 bl.	<u>3543</u> ^v _n	3773 _n	3957 _n	4230 bl.	4408 _n	4519 _n
3346 _{ev}						
3362 _n	<u>3545</u> ^v _n	<u>3780</u> ^v _n	4028 _n	4237 _n	4413 _n	4523 bl.
3363 _n	<u>3556</u> ^v _n					
	3559 _n	3798 _n	4037 _n	<u>4242</u> ^v _n	4420 _n	4532 _n
<u>3364</u> ^v _n	3567 _n	3800 _n	4052 bl.	<u>4245</u> ^v _n	4426 bl.	<u>4534</u> ^v _n
3367 _n	3572 bl.	3801 _n	4103 bl.	4254 !	4438 _n	4535 _n
					4439 bl.	4536 _{ev}

Aug 1st
H. G. L.

4540 n	4696 n	4880 n	5715 bl	6832	7039 bl	7197 n
4561 n	4698 n	4941 n	5739 n	6856 bl	7044 "	7209 bl
4579 n	4699 n	5053 ✓ 5194 !!	5807 n	6866 bl	7050 "	7217 n
4594!	4702 bl	5204 n	5849 n	6874 "	7055 "	7223 n ✓
4596 n	4711 n	5265 n	5888 n	6883 "	7058 "	7231 n
4603 n	4721 n	5272 H	5893 n	6894 !!	7062 "	7234 bl
4608 n	4733 n	5385 bl	5958 n	6895 bl	7063 "	7235 "
4609 bl	4736 n	5407 "	5982 n	6896 "	7067 "	7243 "
4617 n	4746 n	5466 "	5985 n	6910 "	7071 "	7245 "
4623 n	4752 n	5526 n	5982 n	6913 "	7076 n	7261 bl
4631!	4753 bl	5571 bl	5985 n	6939 bl	7083 bl	7281 "
4636 n	4756 n	5585 n	6068 n	6960 !!	7086 "	7295 "
4639 n	4775 n	5607 n	6154 n	6989 bl	7092 bl	7296 "
4650 n	4779 n	5616 n	6160 n	6991 "	7093 "	7339 "
4651 n	4786 n	5623 n	6451	6992 !!	7127 bl	7380 "
4656!	4795 n	5656 n	6459 n	6996 bl	7128 "	7394 "
4657!	4815 bl	5676 n	6645	6997 "	7129 n	7419 "
4659 n	4826!	5687 n	6678 n	7011 bl	7139 n	7423 n
4662 n	4843 n	5695 n	6720 !!	7024 "	7142 bl	7429 bl
4670 n	4851 n	5696 n	6743 bl	7031 "	7160 "	7438 "
4689 n	4852 bl	5700 n	6819 "	7037 "	7175 "	7446 n
			6832 bl			

J. G. C.

7457^N7510^B7640^K7654ⁱ7662⁴¹7680^N7686^B7708^u7723^u7762^u7788^u7789^u7790^u7795^u7801^u7822^N

cl. cluster

er easily resolvable

gr group

mm mixed magnitudes

r resolvable

~~st star~~

~~stell stellar~~

! remarkable

!! very much so

!!! magnificent

1899bae, no. 1, 1725.