144

Wednesday, April 27, 1921

Spectra of faint stars of P.M. greater than 20"
Zone
See Greenwich.

+26° 8 I 35104
K2

+25° 77 I 36390
K2 Hδ strong, perhaps also Hγ.

+30° 89 I2 8017
Edge G. I 36390
G0 (good)

+30° 308 I 8028 1.5
very poor.
I 31048 narrow.
K0

+27 335 I 20038
K0

+29 366 I 20038
G0 dense
Also looked on Pl. 1766(?) I 30938? and
G0 confirmed

April 27, 1921

+29503 I21690
K2

+24659 I32756
G5

I21697 too poor
I31010 " "
I237K2 " "
I25890 " "

+26730 I32756
K0 Hγ + Hδ appear blue by ect,
but I hardly think it is real,
n.s. on I20040

+28726 I36521
G near Edge
I31022 too narrow.
I36507 G0

I36521
+27733 G5
I31022 too narrow
I36507 G1

+27881 I28561
I25995 best
K0

April 27, 1921

Stars of large proper motion

+31° 1159 I 24024
K poor plate
Hε looks bright, also the line near Hβ. Am not sure of them. May be defects.

+31° 1158 I 26501
F G.
Br. lines?
G5 or K0

+26 1067 I 28561
G very poor & partly superposed on a star of Class A, north following.
I 25995 no better, not worth to good

+27 1124 I 30321 Too near edge.
I 31462 K0 good.
I 20042 K0 "

+29 1539 I 24025 too poor
I 28613
G5

April 27, 1921

+31°1781 I 20667
K5

+24 1956 I 21700
G5

I 20250 two near edge

20212
G5

+30 1739 I 36595
K2

Friday, April 29, 1921

Spectra of variables in new list for H.C. 225

012366 +60° 246
Marked on I 34498
Sp. I 33412
Sp. almost continuous. may perhaps be Class G.
I 23313 too narrow
I 33431 Sp. quite bright. Bright continuous. Perhaps of Class B0.
~~Faint~~ MF 1333
Hδ narrow, other parts cont.
Certainly Class B.

034238 +38 811
I 26581 chart
I 24124 sp.
Class A hydrogen strong
May be A0 - A5
Star fainter on sp. plate than on I 26581

052238 +38 1168
I 29898 marked
I 37064 Sp. Too ft. excellent plate

060620 −20° 1314
B 12466 A–F
B 12630 A–F best

063832 +32° 1393
I 30249 chart.
I 32370 – F? very ft.

Omit Sp. in H.C. 225.

Spectra of variables

064537

064684

074802

Spectra of variables H.C. 225

161931 +31° 2847

I 26903 chart
I 37236 too poor focus.

Sp. F–G.

162754

Class A on A3603
probably A0.

193746 +46° 2753
I 21344 marked large arrow
I 3719 no plt.
I 32398 covers but not in box

April 29, 1921

	Variables		H.C. 225
200033	+33° 3718 D 22769 D 27896 Just a blur K5 or M		good plate
211506	D 21599 D 25984	K5	
225134 ✓	+38° 4794 D 11969 D 2290	K2	
233647	~~+47~~ +46.4128		

May 2, 1921

Spectra of stars of P. M. greater than 20" centh. found by J. G.

+25°1981 D 33930 Check. Ident. O.K. (A.J.C.)
a

+25°2059 D 24997
✓
K0

✓
+27°1875 D 34578
G5

✓
+25 2225 G5

+27 1907 G5

+26 2148 D 31677
K0

May 3, 1921

Stars of parallax determined at Allegheny
See letter of Curtis, Apr. 28, 1921.

		Dm
+40°1758	J 36579 K5	8.3
+40°1759	J 36579 F5	9.1
+40 2200	G	9.1
+54°1868	J 36109 G5	8.9

May 3, 1921

Stars of P.M. 20″

I 36016

+21°2238a Soft.

+31 2164 wrong. I 22832 K0 near Edge

Star wanted was
+30°2164 Too near +30°2164. See page 18 for other plates.

+28°2032 I 22871

✓ K0

~~+31°2164~~
+31°2290 I 20065
K5. Bright band near Hδ

I 31156
Less dense than 20065
~~Cut-out~~ about 4227.
absorption
Perhaps slightly pec.

+30°2238 I 22833
G5

May
~~March~~ 3, 1921
I 31728

+24 2539 G
+24 2540 G Superposed.

Probably both G0

I 22833
+28 2103 G5

+28 2232 I 24917
G0

+30 2572 I 25030
K5
Dark line near Hδ probably defect
Somewhat pec. in absorption
Perhaps K8!

I 35987
+24 2757 G0

+27 2411 G0

+26 2606 F5

May
~~March~~ 3, 1921

I 35987

+24° 2733 Two stars near position, both of similar spectrum

Preceding slightly brighter assumed.

K5

+31° 3027 I 20818

✓ very narrow.

G or near G Ident. checked

I 36003 already classified 141, 188

F8

+29° 3027 I 20818

K2

+26 3215 I 28752

K5 very ft.

+31 3330 I 30710

G5 rather dense

May 3, 1921

+31 3727 I 4608
G5

+29 3818 I 11224
Puzzle Perhaps B star
Other plates
Wrong star marked.
The spectrum of +29°3818 is really
G0!!

+31 3926 I 27896
G0
I 4480
G

Wednesday, May 4, 1921

+24°4251	D 11362 K0
+25°4648	D 35085 G5
+28°4312	D 36910 G5
+24°4563	D 36910 G5

Strong dark lines between Hγ & Hε.

+25°4808	D 33745 G0
	D 32312 G0

May 4, 1921

+26°4586	I 33745 G5
	I 36316 G5
+30°2164	I 20065 G or G5
+30°2164	I 20273 G

Probably best on this plates

Thursday, May 5, 1921

M 38 Spectra for Dr. Shapley

I34187	too poor
I33325	" "
I33299	" "
I26086	" "

Stars in the Cluster are faint and crowded. Most of the stars near by are of Class A

Thursday May 12, 1921
Proper Motions cont.

+29°5007 I ~~28066~~ 21902
K_0

+27°4663 l 34480
K poor sp.

Friday May 13, 1921

Spectrum of Var. H.C. 225

194727 ac 14129 bi June 30, 1913
14097 ft. June 17, 1913

I 4167 not seen
I 1326 too poor
I 1573 " "

In H.D. classified Ko m I 38493
taken June 28, 1913

Am 9132 taken June 28, 1913 shows
the star at medium light.

I 11224 June 26, 1894
Star bright. probably at or near max

Sp. Ko.

I 11241 July 5, 1894

Star fainter. Sp. more advanced
At least K5

I 22826 Focus too poor

I 23123 July 3, 1899
Star fti. 125 sec. dark band
fr. & near Hγ

May 13, 1921

194727 H.C. 225

I 25476 not seen.

I 30680
Brighter. Sp. bands not,
Too narrow.

I 34919

Sp. K2.

I 35536

Sp. K2

I 39465 Sept. 2, 1918 long dispersion
Star flt. and more absorption
shown than on I 38493

Thursday, May 19, 1921

M. N. 81. 392. Mch. 1921.

variable announced by A. S. Williams

+44°994 +44°994

Ma Sp. marked by L. D. W. on I 26325 (in W. A. Stack)

I 19657 M? nice edge

I 23534 too poor

I 25947 Ma

Hγ bright? May be defect or break in M spectrum

M F 412 nice edge.

K5?

By far the best on I 25947.

Looked up for var. by A. J. C. M. D. A. & H. S. L.

May 19, 1921
Spectra of several Cepheid variables.

Z Leonis 9 46.4 +27 22

Z Leonis Marked on I 31777
Ma Sp. Ma, bands well formed,
Strong dark lines present.

I 22694 too poor but K5 or M

I 20045 def. poor. K5 or M
I 31148 too poor.

RZ Cephei RZ Cephei. 223564
A

I 13697 A or late B

I 33421 marked by L. D. W.
A? too poor.

Just off edge of MF 1339

Ident O.K. checked by chart plate
on which M. D. A. marked the
variables for observation

May 9, 1921

RZ Cephei

cont

I 23687 Ov. pos.

I 37244 a Hζ, Hδ strong. Region of K indistinct

I 31329 a Hε fairly well seen

K not seen

Best one I 13697 perhaps.

034658 RW Camelop.

marked on I B3384

RW Camelop. K5 K5 (K line str.?)

Get another plate if possible

Period 16^{d} + H. Shapley Harv Observatory Bulletin

May 19, 1921.

U Vulpec. 19 32 +20.7

U Vulpec. No. 63 on I 37~~829~~ 235

I 36230 extreme edge, K or K5

I, 8035
K2

I 27292
K near edge.
Sharp.

I, 4612 best.
K0 p
Bright lines seen. One is between
Hβ and Hγ
Another may be Hδ or may have
slightly greater λ.
Star bright.

I, 5828 bright.
Too dense G5 or K.

Saturday June 11, 1921
Receipt of spectrum plates.

I 40408 18 30 +0
Old plate B 24025
Bright line object not on B24025,
Nova Aq. No. 3 But it is Nova Aquilae, No. 3!
Neb. 5007 stg. Nebular lines strong. On edge of focus not very good.

I40409	19	±0
I40406	17 30	0
I40407	18	0
I40402	18	+16
40403	17	0
40404	17 50	+8

June 11, 1921

I 40416	19	10	+8

Nothing of interest

I 40417	19	50	+8

No plate
known

I 40418	18	20	+24
40420	19	20	+24
40422	19	30	+16
40423	20	00	+16
40429	20	20	+24
40392	16	50	+10
3	17	10	+10
4	18		±0
40439	19	30	0
40	20		0
46	18	30	+16

Thursday, June 16, 1921

I 40421 short dispersion
Classification of stars marked on I 37202
same numbering for comparison

✓	11	4	F1	s. p.
✓	12	3	K5	n. f.
✓	13	3	F0	
✓	18	3	K2	
	19	3	A	Perhaps A5
✓	30	4	K0	
✓	32	4	G5	Hδ very strong.
✓	33		K0	
✓	34		G.	Too near edge.
✓	35		G0	
✓	36		A	
✓	39		K0	
✓	43		K0	
✓	44		K2	
✓	45		K5	
✓	46		A	
✓	47		G0	
✓	52		G0	
✓	103	4	G0	
✓	104		K0	
✓	105		K2	
✓	106		K5	

June 16, 1921

	I 48421	
148	K2	
151	F0	
152	K2	
153	G0	dense
154	A	
162	F5	Gin Zone Cat. +18°3967

Friday, June 17, 1921

I 40421 new objects.

1. Mp more blue light than typical M spec.
UV Aquilae 18 54.0 +14 4
In H.D.
Ident. by A.J.C.
Independently by L.D.W. See com.

2. Mb ✓ 2 ✓ ✓
✓ +15° 3761 19 11 55.7 +15 16.6
9.1
Not in H.D.

3 Ma. ✓ In H.D.
+15° 3683.

✓ 4 Mb ✓ 1 ✓ ✓
+16° 3696 18 53 59.6 +16 47.7
9.5—

Not in H.D.

June 17, 1921

I 40419   18 50 +24

1. Mc
+22° 3562   18 55.9 +22° 38.2 ✓ 9.

✓

✓ 2 Mb +23° 3479   18 44.7 +23 37.3 ✓
9.0

Ident. also by L. D. W
See com of plate

Saturday, June 18, 1921

I 40428 Checked by L. D. W.

1. Nb ✓ ✓ 20 0.7 +20 22

+20°4417 19 58.7 +20 14.9 8.9.

In H.D. X Sagittae Var.

20 0.7 +2022 Spectrum already known.

✓ 2 Nb

The following of 2 stars either of which may be identified as +20° 4390 19 56.0 +20 41.2 9.0

Not in H.D. Sp. well defined. Espin's star +20°4394 follows

Its spectrum is clearly seen to be of Class K5.

Did he make an error in identification?

✓ 3. Hγ bright, variable? G0

✓ +21° 3995 19 52.1 +21 54.8 9.0

Not in H.D.

✓ 4 Nt

Not in H.D +21°3966 19 47.9 +21 15.3 9.2

✓ 5 Bright band of greater λ than Hβ.

In H.D. ✓ +22°3840 ✓ 19 46.2 +22 5 8.0

Saturday June 25 1921

Magellanic Cloud cont. from Bk. 143.

No. 43 Brightest Type V in Cloud when measured on ordinary plates. A11715 grating but hard to use companion because of adjacent stars & nebulosity.

A11715 The second grating companion above the star when looked at film side up is the best to use. It comes between the same image of comp. stars n & o.

n 1, 30 Seq. II.
10.6
10.5 10.6

No 44 Meas. on A 2169 near centre Seq. II
n 2, 2 w 12.8
12.8 12.7

Images almost stellar on this plate.

June 25, 1921

No. 59 Neb. Best to measure

Q2169 Sep. II

r2, 1s

¥ 12.1 ~~12.7~~ 12.0

11.9

Tuesday, June 28, 1921

A7728

1 Neb. superposed on G5 spectrum

The star is -36° 12130

17 55.7 - 36 40 (1900)

This was announced as Type V because there appeared to be a band at 4686. The A plate reveals the truth. Neb. measured by A. D. W. Bk. 9, 97.

(1875)	17	54	4.6	-36	38.8
(1900)	17	55	46.2	-36	39.0

June 28, 1921

UW Draconis

I 32964
$H\gamma$? bright
$H\delta$? "
Spectrum somewhat pec.
Very faint towards violet

Tuesday June 28, 1921
The Large Magellanic Cloud
Measures of position of bright line objects

No.	x	y	A	B	C	D	A+C	B+D	A−C	B−D	x×600	y×600	x	y
59	0.88	28.35		10.6	2.1	19.3		29.9		−8.7		16800		16713
42	2.75	32.56	22.9	14.8	7.1	15.1	30.0	29.9	15.8	−0.3	1200	19200 ~~18800~~	1358 ~~1442~~	19197 ~~18797~~ ~~1203~~
44	3.56	32.02	14.9	29.8	15.1	0.2	30.0	36.0	−0.2	−29.6	1800	19200	1798	18904 ~~19496~~
52	3.45	25.35	12.6	6.6	18.4	24.0	30.0	36.0	−5.8	−18.0	1800	15000	1742	14820
53	6.28	22.85	7.8	25.2	22.2	4.8	30.0	30.0	−14.4	20.4	3600	13200	3456	13404

Wednesday June 29, 1921
Large Cloud
Measures of position

a fr. star s.f. no. 1 x y

1 28.33 17.39 8.6 9.2 21.3 21.8 29.9 30.0 −127 −11.6 16800 10200 16673 10084

2 28.19 16.90 4.3 27.2 25.7 29

~~3~~ ~~4.~~

3. 28.20 17.40 3.5 9.3 26.5 20.8
3.6 8.5 26.3 20.4
larger image
3.6 9.4 26.4 20.6

4 27.9 17.02

Friday, July 1, 1921.

D 117$\overset{62}{59}$ Large Magellanic Cloud.

No.	x	y	A	B	C	D	A+C	B+D	A−C	B−D	x×600	y×600	x	y
42	2.75	32.50	23.0	14.8	15.2		300	300	16.0	−0.4	1200	$1\overset{9}{8}200$	1360	19196
52	3.45	25.20	12.2	5.8	17.8	23.6	300	294	−5.6	−17.8	1800	15000	1744	14822
63	7.25	30.60	7.0	20.2	23.0	9.8	300	300	−16.0	10.4	4200	18000	4040	18104
44	3.50	32.00	15.0	0.2	15.0	29.7	300	299	0.0	−29.5	1800	19200	1800	18905
59	0.85	28.40	–	10.8	2.6	19.0	–	298	–	−8.2	000	16800	–	16718
53	6.25	22.85	7.5	25.0	22.2	4.9	297	299	−14.7	20.1	3600	13200	3453	13401
41	5.30	19.95	7.4	29.0	22.7	0.8	301	298	−15.3	28.2	3000	11400	2847	11682
54	5.25	19.75	6.9	23.9	23.0	6.2	299	301	−16.1	17.7	3000	11400	2839	11577
39	4.30	15.05	8.4	1.0	21.6	29.0	300	300	−13.2	−28.0	2400	9000	2268	8720
40	1.30	14.50	19.3	15.0	10.5	15.0	298	300	8.8	0.0	600	8400	688	8400
55	5.45	13.50	11.6	15.8	18.2	14.0	298	298	−6.6	1.8	3000	7800	$29\overset{3}{4}4$	7818
37	3.15	13.55	4.3	17.2	25.7	12.7	300	299	−21.4	4.5	1800	7800	1586	7845
56	10.10	10.50	2.5	12.5	27.5	17.4	300	299	−25.0	−4.9	6000	6000	5750	5951
57	10.85	5.35	25.3	10.6	24.5	19.2	298	298	18.8	−8.6	6000	3000	6188	2914
32	11.35	17.70	8.5	22.7	21.4	7.3	299	300	−12.9	15.4	6600	10200	6471	10354
34	14.90	15.35	27.6	9.8	2.2	20.2	298	300	25.4	−10.4	8400	9000	8654	8896
34a	14.65	15.15	18.8	4.4	11.1	25.4	299	298	7.7	−21.0	8400	9000	8477	8790
30	20.60	20.75	18.0	22.0	12.0	8.0	300	300	6.0	14.0	12000	12000	12060	12140
45	13.95	26.60	28.8	18.8	1.0	11.4	298	302	27.8	7.4	7800	15600	8078	15674
46	13.85	27.10	25.0	1.8	4.9	28.1	299	299	20.1	−26.3	7800	16200	8001	15937
38	4.10	14.90	3.3	27.0	26.5	3.0	298	300	−23.2	24.0	2400	8400	2168	8640
35	7.75	9.35	21.4	10.0	8.5	19.9	299	299	12.9	−9.9	4200	5400	4329	5301

Measures copied from paper. Measures and record both made by W.

Friday, August 5, 1921

D 117~~59~~62 Large Magellanic Cloud

No	x	y	A	B	C	D	A+C	B+D	A-C	B-D	x×600	y×600	x	y
1	28.35	17.30	8.6	8.8	21.3	21.2	299	300	-12.7	-12.4	16800	10200	16673	10076
2	28.15	17.35	3.4 ~~8.6~~	9.2 ~~8.8~~	26.4 ~~22.2~~	20.5 ~~20.9~~	298	297	-23.0	-11.3	16800	16200	16570	10087
3	28.20	16.85	4.3	26.7	25.6	3.2	299	299	-21.3	23.5	16800	9600	16587	9835
7	27.55	17.05	15.6	0.6	14.4	29.5	300	301	1.2	-28.9	16200	10200	16212	9911
8	27.05	16.40	1.0	11.3	29.0	18.6	300	299	-28.0	-7.3	16200	9600	15920	9527
9	27.50	16.10	14.0	2.5	16.0	27.5	300	300	-2.0	-25.0	16200	9600	16180	9350
10	26.40	16.45	11.8	13.7	18.2	16.3	300	300	-6.4	-2.6	15600	9600	15536	9574
11	26.75	15.25	22.0	7.6	7.9	22.5	299	301	14.1	-14.9	15600	9000	15741 ~~15454~~	8851
12	26.95	14.90	28.8	28.2	1.2	1.7	300	299	27.6	26.5	15600	8400	15876	8665
13	25.60	13.05	17.7	0.9	12.2	29.0	299	300	5.5	-28.2	15000	7800	15055	7518
14	28.40	12.80	11.2	25.2	18.8	4.8	300	300	-7.6	20.4	16800	7200	16724	7404
15	28.35	13.55	10.8	16.6	19.2	13.5	300	301	-8.4	3.1	16800	7800	16716	7831
16	28.80	13.45	23.0	13.5	6.8	16.5	298	300	16.2	-3.0	16800	7800	16962	7770
17	28.65	13.40	19.6	12.8	10.3	17.2	299	300	9.3	-4.4	16800	7800	16893	7756
18	28.60	15.05	17.7	0.6	12.2	29.3	299	299	5.5	-28.7	16800	9000	16855	8713
19	28.70	15.05	21.2	1.0	8.8	29.0	300	300	12.4	-28.0	16800	9000	16924	8720
20	28.75	15.25	22.4	6.1	7.4	24.1	298	302	15.0	-18.0	16800	9000	16950	8820
20a	28.75	15.10	23.1	1.9	7.0	28.2	301	301	16.1	-26.3	16800	9000	16961	8737
30	20.60	20.70	17.8	22.0	12.2	8.0	300	300	5.6	14.0	12000	12000	12056	12140
47	21.05	26.60	0.7	18.8	29.3	11.3	300	301	-28.6	7.5	12600	15600	12314	15675
48	23.40	27.05	12.3	1.0	17.7	29.0	300	300	-5.4	-28.0	13800	16200	13746	16920
61	26.40	26.15	10.5	3.5	19.5	26.4	300	299	-9.0	-22.9	15600	15600	15510	15371

Monday, August 8, 1921

D 117~~59~~ 62 Large Magellanic Cloud

no	x	y	A	B	C	D	A+C	B+D	A-C	B-D	x×600	y×600	x	y
~~4~~														
~~5~~														
~~6~~														
21=58	27.55	7.35	15.6	10.9	14.4	19.2	300	301	1.2	-8.3	16200	4200	16212	4117
~~22~~														
23	23.70	5.40	20.2	11.2	9.7	18.8	299	300	10.5	-7.6	13800	3000	13905	2924
24	20.05	2.35	1.8	10.6	28.2	19.3	300	299	-26.4	-8.7	12000	1800	11736	1713
25	19.75	1.85	22.0	24.5	8.0	~~4.5~~ 5.5	300	300	14.0	19.0	11400	600	11540	790
26	18.90	23.65	27.4	19.4	2.6	10.5	300	299	24.8	8.9	10800	13800	10048	13889
27	21.40	18.50	12.4	16.0	17.4	14.0	298	300	-5.0	2.0	12600	10800	12550	10820
28	22.25	17.30	27.4	8.8	22.6	20.9	300	297	-15.2	-12.1	13200	10200	13048	10079
29	22.15	16.55	2.7	17.1	~~28.2~~ 27.2	12.9	299	300	-24.5	4.2	13200	9600	12955	9642
31	18.70	13.50	21.5	15.0	8.5	15.0	300	300	13.0	0.0	10800	7800	10930	7800
33	12.45	17.80	11.4	24.0	18.6	6.0	300	300	-7.2	18.0	7200	10200	7128	10380
~~36~~														
43	3.20	31.45	4.7	13.1	25.2	16.8	299	299	-20.5	-3.7	1800	18600	1595	18563
49	17.05	15.85	1.5	26.6	28.7	3.4	302	300	-27.2	3.2	10200	9000	9928	9032
50	26.15	13.50	2.6	14.4	27.3	15.5	299	299	-24.7	-1.1	15600	7800	15353	7789
51	22.50	16.70	13.6	21.5	16.4	8.5	300	300	-2.8	13.0	13200	9600	13172	9730
60	3.80	31.60	25.8	18.5	4.2	11.5	300	300	21.6	7.0	1800	18600	2016	18670
26a	18.75	23.75	22.8	23.6	7.1	6.3	299	299	15.7	17.3	10800	13800	10957	13973
30a	22.20	17.65	5.1	19.7	24.8	10.3	299	300	-19.7	9.4	13200	10200	13003	10294
~~62~~														

Thursday July 7, 1921

Var. ax Sagittarii

1802 18

18 2.6 -18 34

Sp. classified Ma. B24169. An examination of other plates shows that it is very peculiar.

B48707 perhaps best.

Br. line at space near $H\gamma$ and $H\delta$ very flt. Numerous absorption bands bet. $H\gamma$ and violet end

G band appears like one strong line

4227 not seen as single line

Several absorption lines bet. $H\gamma$ and $H\beta$

One strong absorption line seen on several plates has slightly greater λ than $H\beta$

Friday, July 8, 1921

Var. 211546 of H.C. 225

Examination of plates to confirm variability

Marked on AC 22069

AC 22069
a 2, 2 b

AC 65 ?

Same

AC 5733
Same

AC 5294   AC 5213
a 3, 1 b

AC 4032
Fogged. Star same

AC 11137
~~a . .~~ a 2, 2 b

AC 14762
Fl. but image probably defective

July 8, 1921
2,15–26 incl.

AC 6620
Perhaps brighter

AC 28615

a 1, 3 b

AC 28552
Normal

AC 17350
Normal

AC 17571
Fogged. Star seems
fl. but require inspection

AC 17673
normal

AC 18027
Normal

Probably not var.
Must be corrected

AC 17994
Normal

Monday, July 11, 1921

I 37244

1 Comp.

Have another plates

Saturday July 16, 1921

I 25568

1. 2 K5

+40° 3189 17 34.3 +40 59 7.5

Too ft. on long dispersion

I 25571

1 3 Ma

+14° 3375 17 51.8 +14 37 7.8

I 25260

1 2 F8 2

+74 742 17 57.6 +74 24 8.0

Monday July 18, 1921
I 37828 contd. from 70, 82

109	2	G0
110	1	K0
111	2	K0
112	2	G5
113	1	K0
114	2	K0
115	1	K5
116	2	F0

- 109	18 6.9	+37 51	+37 3041 7.7
- 111 ~~110~~	+37 3056	18 9 58.0	+37 21.7 7.5
✓ 110 ~~111~~	+37 3109	18 19 15.4	+37 37.5 8.0
✓ 112	+35 3251	18 21 50.7	+35 57.7 8.0
✓ 113	+36 3154	18 25.0	+36 58 8.0
✓ 114	+37 3141	18 25.2	+37 7 7.6
✓ 115	+35 3262	18 23.7	+35 42 8.0
✓ 116	+34 3190	18 18.2	+34 47 8.0

July 18, 1921

I 36075 ~~25484~~ Short

1.	3	K2	
2	3	K0	Hγ br.?
3	1	Md	Var.

✓	1	+22 3457	18 36.9	+22 42	7.7
✓	2	+22 3466	18 37.3	+22 42	8.2
✓	3	..	18 37.2	+22 52	.

No 189.

Var. Conf. on chart plates. See com

I 6621,	N.S.
22844	I 9057
36067	11646
	18878
	20942
	22844
	27187
	29380

Hγ = 10 Hδ = 1

Spectrum bright between Hβ and Hγ, but class not very well defined. It may be Ma or of the peculiar R Andromedae Class, perhaps more like Ma.

On AC 6060, 60m visible about 1 mag br. than the limit of the plate.

Position	1875	18 37 56.7	+22 52.5
A.D.W. 9,100	1900	18 38 59.7	+22 53.9

Thursday, November 3, 1921

I 33749

	1.	3	G5
See p. 65	2		
" "	3	~~2~~	~~A~~
	4	2	A5
	5	2	F0
	6	2	F0
	7	2	K2
	8	2	F8

	1	+37°4717	22 47.0	+37 8.0	Var. Miss Ashall.
	2				
	3				
✓	4	+36 4928			68 m I 38832
✓	5	+35 4867			72 " "
✓	6	+36 4944			64 " "
✓	7	+36 4903			85 m I 38564
✓	8	+36 4916			67 " "

Thursday, April 26, 1923

I36199 short

✓ 1. 2 G0

+65°,583

21 22.6 + 65 14 7.8 no. 28 on I38573

I13715 short

✓ 1 2 F0 no. 102 on I38122

✓ 2 2 A5 " 103 " "

I ~~31017~~ 11956 short

1. 2 A3 no. 12 on I38542

I37243 short

1. 4 A5 no. 33 on I37945

Saturday, April 28, 1923

I33749 short

✓ 2 X.	3	G5	2 on I3854
✓ 3 Z.	2	a	13 on I38574

Sep. 62

Tuesday, May 1, 1923

I 25984 short,
for plt. class on I 37913

✓	2 ~~1~~	3	F8	112 on I 37913
✓	1 ~~2~~	3	F5	87 " "
✓	3	3	A5	106 " "

I 33649 short

✓	1	3	A5	14 on I 38811
/	2	3	G5	18 on "
✓	3	2	A5	114 on 38099
✓	4	2	F5	128 " "
✓	5	2	F8	137 " "
	~~6~~			

Wednesday, May 2, 1923

I 33647 short

✓	1	3	A5	15 on I38819
✓	2	3	G0	18 " "
✓	3	2	~~F0~~ F5	29 " "
✓	4	3	F8	94 on I38819
	5			

I 35085 short.

✓	1	3	F8	48 on I38819
✓	2	2	Ma	53 on I38819
✓	3	2	Ma	55 " "
✓	4	2	F5	87 "
✓	5	2	A5	focus from 91 " "
✓	6	2	Ma	105 on I 38819
✓	7	2	G	Hδ too strong for Class K 116 on I3889
✓	8	2	A	136 on I38819
✓	9	2	F8	150 " "
✓	10	3	F0	157 "
✓	11	3	F5	158 "
✓	12	2	G5	160 "
	13	2	K5	+00 " " $+24^{\circ}_{n}$4490, sup. at S.

Friday, May 4, 1923

I31321 short.

✓ 1. 3 Oes Line 4200 seen clearly.
No 224 on I37277

Tuesday, May 8, 1923

I33571 short.

✓ 1. 3 F0 15 on I38129

2, 4.1 +1.2
See B53136 for spectra of adjacent stars.
/ 2 2 A 28 on I38129 where it is bright.
R.n.s. See also B

I34990 short B53136 narrow images.

✓ 1. 3 F0

Wednesday, May 9, 1923

I33781 short.

✓	1	2	K_2	31 m I38114	
✓	2	3	F_2	32 " "	K line fl. Comp.?
✓	3	1	F_1	34 " "	
✓	4	1	K_2	126 " "	
	5				
	6				

I33781 short

✓	5x	1	F_8	82 m I38114

See also I34923

I36227 short

✓	1.	2	F_{15}	20 m I38125

May 9, 1923

~~I36910 short~~

1
~~2~~
3

I33699 short 22 1 + 34

✓	1	2	F5	54 on I38031
✓	2	2	A5	56 " "
✓	3	3	F0	66 " "
✓	4	2 ~~95~~	K0	95 " "

I32312 short 22 28 + 26

✓	1a	2	K2	19 on I38597
✓	2	3	G5	45
✓	3	3	G0	106 on I38597
✓	4	2	A5	99 Line very strong, near pos. 4077. Is it that?
✓	5	3	F0	62 on I38597
	6	3	F8	98 " "
	7	2	F1	86 " "
	8			

See also 138, 124

Thursday, May 10, 1923

I36910 short 22 8 +26

✓	1	2	F12	142 m	I38597		
✓	2	1	F5	9	"	"	
✓	3	1	F1	58	"	"	poor focus. [illegible]

I37040 22 26 +52

1.	2	K5	7 m	I37351		
2.	2	F1	185	"	"	imperfect focus

I36318 22 8 +36

✓	1	2	F8	68 m	I38570	
✓	2	~~9~~ 2	B5	99	"	"
✓	3	3	F0	106	"	"
✓	4	2	A5	103	"	"

Friday. May 11, 1923

I ~~37244~~ 36167 chart. 22 24 +72

✓ 1 2 F2 103 m I 38903
✓ 2 2 F8 99 " "

22 26.1 +73

I 35031 chart

✓ 1. 2 F8 15 m I 38564

Saturday, May 12, 1923

I27807 short b. Pl. 4457

✓ 1. 2 G5 Hδ very strong. Perhaps composite.
✓ 2. 1 G0
3, & 36 in I38821

I36870 22 29 +22

✓ 1. 3 K0 No 1 in I38821 (G5)

Tuesday, May 15, 1923

J31321   21 44 +62

✓ ²X. 3 A only hyd. seen. Perhaps B8.
Classified F2 on J38803 No. 16,
where it is too ft.
See also page 68.

~~J34819~~

Wednesday May 18, 1923

I36199 short

✓	1	3	F0	3 m	I38550
✓	2	2	G0	5 "	"
✓	3	2	F8	6	"

Wednesday, June 13, 1923

I ~~33~~ 34275 Short

✓ 1. 3 a3

No 59 on I38101, no fC.

Thursday, June 21, 1923

I 36911 shunt

1	1	F1
2	1	G
3	2	F15
4	2	F1
5	2	F0

✓	1	+19 5086	100m I 38617
✓	2	+18 5140	75 " "
✓	3	+20 5308	95 " "
✓	4	+21 4920	101 " "
✓	5	+22 4832	127 " "

Thursday, June 28, 1923

I 23970 s 22.8 + 43

✓	1	2	A3	No. 37 on I 38052
✓	2	2	K0	" 63 " "
✓	3	2	A3	" 83 " "
✓	4	3	G0	" 111 on I 38020
✓	5	2	A5	" 91 " "

I 13697 short 22.8 + 62

✓	1	3	B3	134 on I 38902
✓	2	4	B5	146 " "

Saturday July 7, 1923

B14205

✓ 1	2	Ko	152 m	J37350
✓ 2	2	K5	160	" "

Wednesday, July 11, 1923

New variable nebula $14^h 39^m +24°.2$
Found by I.E.W.
Examination of spectrum plates of region

I 25481 n.s.
bare trace of susp B star
Can not confirm its spectrum

I 22819
I 37159
I 35992
I 36122
} All too poor.

I 35987 best so far found
Nearly all the BD stars are G or K
except +24° 2769
which appears to be of Class B.

I 42375 taken last night
Sp. of +24° 2769 seems to show bright lines.

I 35887 sp. of B? star seen, but it
does not resemble Class B's so closely.

July 11, 1923

Near var. neb.,

DM stars +24°2770	G
2766	G
2767	G5
2768	K2
2765	K2
2769	B?

Wednesday, July 18, 1923

97
I23~~89~~1 about 23 50 +42

✓	1	1	A	hyd. strong, and a strong line near 4028.
✓	2	3	A3	No. 93 on I37910
✓	3	3	F	Hazy, two stars? +44° 45-43. No 9 on I38896
✓	4	2	A5	10 on I38896 +45°4401

= Bu. 12719. Both stars may be F.

Thursday, July 19, 1923

I 21,226 slint ! ,, 23 56 +12.5

✓	1	3	G0	53 m	I 38,17
✓	2	3	G0	51 "	"
✓	3	3	G5	50 "	"
✓	4	4	K2	52 "	"
✓	5	3	G5	49 "	"
✓	6	2	K5	6 "	"
✓	7	3	K2	7 "	"
✓	8	3	K5	8 "	"
✓	9	3	K5	32 "	"
✓	10	3	K5	33 "	"
✓	11	3	F8	31 "	"
✓	12	4	G5	14 "	"

July 19, 1923

I2·3378 shunt 23 58 +17

✓ 1. 3 F18 49 m I38131

I35762 shunt 23 12 +25.0

1 2 Ap5 75 m I38123
2 2 F15 115 m "

I19799 shunt 23 28 +16.5

1 2 F15 16 m I38123
2 2 F18 17 " "

Friday, July 20, 1923

I23423 clint 23 51 +31.9

✓ 1 2 F2 13 m I38847
✓ 2 2 F5 5 " "

I31187 0 6 +36.8

1 3 K0 25 m I37382
2 2 K5 138 " "

July 20, 1923

I38565 See 94, 66

Star 37 classified originally F2, on re-examination appears to show helium lines. No other good plates found. The best one of short dispersion is I33750, which certainly shows 4026

I 33750 22 18 +52

✓ 1 3 B5 lines narrow 4026 seen clearly.

I 13717 21 52 +22.5

/ 1. 2 F8 164 m I38819

Nov 15, 1923

I 19582 for star 105 in A 38031

1 F8 2 22 27.2 +33 44

C 18198 for 23 2.6 + 49 40

+49° 40 45

Probably resembling α Cygni or a little later, although I plates make it look as if Comp.!

Adopt A5 p.

Tuesday June 18, 1923

B 53202

1	2	F0
2	2	K2
3	2	K5
4	3	A0
5	2	A5
6	1	K5
7	3	F2
8	2	K5
9	2	A0
10	2	F8
11	2	A5
12	2	M0
13	1	A0
14	3	A2
15	3	K0
16	1	A0
17	1	K0
18	1	G0
19	4	F8
20	3	F5
21	2	A0
22	3	K5
23	2	F0
24	2	G0
25	3	A2

✓	1	+19°	4078	19	30.1 +19	43	9.2
✓	2	+19°	4089	19	31.5 +19	39	8.9
✓	3	+19°	4097	19	32.5 +19	28	8.8
✓	4	+19°	4098	19	32.6 +19	32	9.4
✓	5	+19°	4099	19	32.6 +19	41	9.4
✓	6	+19°	4104	19	33.0 +19	32	9.0
✓	7	+19°	4105	19	33.1 +19	42	9.3
✓	8	+20°	4216	~~20~~ 19	33.4 +20	4	8.4
✓	9	+20°	4214	~~20~~ 19	33.0 +20	29	9.4
✓	10	+20°	~~4148~~ 4208	~~20~~ 19	31.8 +20	38	9.1
✓	11	+21	3860	19	32.8 +21	14	9.5
✓	12	+21	3864	19	33.5 +21	41	8.5
✓	13	+20°	4217	~~20~~ 19	33.9 +20	53	9.4
✓	14	+21	3870	19	34.3 +21	12	9.0
✓	15	+21	3872	19	34.4 +21	20	8.9
✓	16	+20°	4224	~~20~~ 19	34.9 +20	43	9.2
✓	17	+20°	4219	~~20~~ 19	34.1 +20	~~34.1~~ 29	9.2
✓	18	+20°	4226	~~20~~ 19	35.2 +20	32	9.2
✓	~~19~~ 19	~~+19~~ +20°	~~4108~~ 4227	~~19~~ 19	~~33.3 +19~~ 35.3 +20	~~16~~ 44	~~8.6~~ 8.5
✓	20	+20°	4229	~~20~~ 19	35.5 +20	43	9.0
✓	21	+20°	4230	~~20~~ 19	35.5 +20	33	9.4
✓	22	+20°	4233	~~20~~ 19	35.7 +20	47	8.5
✓	23	+20°	4231	19	35.6 +20	23	9.1
✓	24	+20°	4232	19	35.~~6~~7 +20	19	9.1
✓	25	+20°	4235	~~20~~ 19	36.0 +20	43	9.2
	~~26~~						

Tuesday June 18, 1923

B 53202

26	1	F	
27	1	K5	
28	4	G5	
29	3	A2	
30	3	F0	
31	2	A2	
32	1	A5	
33	3	A0	
34	4	A2	
35	4	K0	
36	3	F2	
37	1	K	
38	2	A	Perhaps Comp.
39	3	F8	
40	3	A2	
41	1	A	
42	3	G0	
43	1	A	
44	2	A0	
45	2	F	
46	2	F0	
47	2	A2	
48	4	A2	
49	2	K5	
50	4	F5	

✓	26	+20		19		+20			Not in DM.
✓	27	+20	4236	19	36.1	+20	50	9.2	
✓	28	+20	4238	19	36.5	+20	45	8.7$_2$	
✓	29	+20	42~~39~~ 48	19	36.~~5~~ 6	+20	36	9.5	
✓	30	+20	4241	19	36.7	+20	36	9.0	
✓	31	+20	4243	19	36.7	+20	19	9.4	
✓	32	+20	4245	19	37.2	+20	25	9.4	
✓	33	+20	4246	19	37.2	+20	18	9.2	
✓	34	+20	4248	19	37.5	+20	34	8.8	
✓	35	+20	4249	19	37.6	+20	22	8.6	
✓	36	+20	4251	19	37.7	+20	20	9.1	
✓	37	+19	4107	19	33.3	+19	52	9.2 ?	
✓	38	+19	4112	19	33.7	+19	49	9.5	
✓	39	+19	4108	19	33.3	+19	16	8.6	
✓	40	+19°	4109	19	33.4	+19	23	9.2	
✓	41	+19°	4110	19	33.4	+19	24	9.4	
✓	42	+19°	4114	19	34.0	+19	17	9.1	
✓	43	+19°	4115	19	34.5	+19	27	9.5	
✓	44	+19°	4119	19	34.6	+19	27	9.5	
✓	45	+19°	4121	19	35.7	+19	58	9.5	
✓	46	+19°	4124	19	36.1	+19	45	9.3	
	47	+19°	~~4126~~	~~19~~	~~36.6~~	~~+19~~	~~34~~	~~9.5~~	Not in DM.
✓	48	+19°	4127	19	36.6	+19	31	9.0	
✓	49	+19°	4128	19	36.7	+19	41	9.0	
✓	50	+19°	4129	19	36.7	+19	50	8.8	

Tuesday June 18, 1923

B53202

51	2	A
52	2	F2
53	1	A
54	3	G0
55	2	F0
56	4	K0
57	4	A0
58	3	A0
59	3	F0
60	2	A3
61	1	G
62	1	G5
63	4	G0
64	4	A2
65	1	Ma
66	3	K0
67	2	G0
68	2	A0
69	1	M
70	4	A3
71	4	F0
72	2	F5
73	3	A3
74	3	K5
75	1	K5

✓	51	+19°	4132	19	37.8	+19	5	9.4	
✓	52	+19°	4133	19	38.0	+19	20	9.0	
✓	53	+19°		19		+19			Not in D.M.
✓	54	+19°	4134	19	38.2	+19	10	9.1	
✓	55	+20	4255	19	38.3	+20	18	9.4	
✓	56	+20°	4258 ~~4248~~	19	38.9 ~~37.5~~	+20	34	8.2 ~~8.8~~	
✓	57	+20	4259 ~~4249~~	19	38.9 ~~37.6~~	+20	30 ~~22~~	8.7 ~~8.6~~	
✓	58	+20	4268	19	39.8	+20	9	8.8	
✓	59	+19	4141 ~~4142~~	19	39.8	+19	38 ~~53~~	9.0 ~~9.5~~	
✓	60	+20	4275	19	40.3	+20	41	9.1	
✓	61	+20	4266	19	39.5	+20	51	9.4	
✓	62	+20	4271	19	40.0	+20	55	9.5	
✓	63	+21	3905	19	40.1	+21	0	9.0	
✓	64	+21	3908	19	40.8	+21	9	9.0	
✓	65	+21 ~~+20~~	3911 ~~4278~~	19	41.1	+21 ~~+20~~	50 ~~56~~	9.4 ~~9.5~~	!
✓	66	+21	3914 ~~3911~~	19	41.3 ~~41.1~~	+21	6 ~~9~~	9.1 ~~9.4~~	!
✓	67	+20	4280	19	41.6	+20	29	9.3	
✓	68	+19	4150	19	41.1	+19	50	9.4	
✓	69	+20	4281 ~~4279~~	19	41.7 ~~41.4~~	+20	18 ~~17~~	9.5	
✓	70	+21	3910	19	41.1	+21	26	8.9	
✓	71	+21	3912	19	41.1	+21	43	8.6	
✓	72	+21	3913	19	41.2	+21	50	9.2	
✓	73	+21	3916	19	41.6	+21	38	9.1	
✓	74	+21	3917	19	41.7	+21	53	8.4 2	
✓	75	+21	3919	19	41.9	+21	46	9.4	

Tuesday June 18, 1923

B 53202

76	3	A2
77	1	K2
78	3	B8
79	4	B8
80	2	G0
81	3	A5
82	1	Ma
83	3	G0
84	4	K0
85	2	G5
86	3	F0
87	3	A2
88	4	A5
89	4	A2
90	4	A5
91	2	G5
92	2	F
93	3	K2
94	3	F0
95	2	K2
96	3	A5
97	3	F5
98	2	A0
99	1	F
100	3	A3

✓	76	+21	3915	19	41.5	+21	19	9.2	
✓	77	+21		19		+21			Not in DM.
✓	78	+21	3922	19	42.2	+21	36	9.0	
✓	79	+21	3924	19	42.2	+21	36	8.7	
✓	80	+21	3930	19	42.9	+21	36	9.0	
✓	81	+21	3931	19	42.9	+21	32	9.0	
✓	82	+21	3933	19	43.5	+21	40	9.1	
✓	83	+22	381~~7~~3	19	~~41.9~~ 42.4	+22	15	~~9.4~~ 8.9	
✓	84	+22	3814	19	42.5	+22	17	9.1	
✓	85	+22	3816	19	42.6	+22	13	9.3	
✓	86	+22	3820	19	42.9	+22	11	9.1	
✓	87	+22	3819	19	42.8	+22	23	9.4	
✓	88	+22	3823	19	43.4	+22	26	9.0	
✓	89	+22	3824	19	43.4	+22	16	8.8	
✓	90	+22	3827	19	44.0	+22	18	8.5	
✓	91	+22	3817	19	42.6	+22	26	9.5	
✓	92	+22	3818	19	42.7	+22	34	9.4	
✓	93	+22	3751	19	32.2	+22	31	8.9	
✓	94	+22	3753	19	32.5	+22	33	9.4	
✓	95	+22		19		+22			Not in DM.
✓	96	+22	3759	19	33.6	+22	36	9.3	
✓	97	+22	3761	19	34.1	+22	30	9.0	
✓	98	+22	3758	19	33.6	+22	6	9.3	
✓	99	+21		19		+21			Not in DM.
✓	100	+22	3764	19	34.6	+22	11	9.0	

Tuesday June 18, 1923

B 53202

101	1	A5
102	3	G0
103	1	K5
104	1	M
105	4	F0
106	3	F5
107	1	A
108	3	A3
109	2	A0
110	3	A0
111	2	F5
112	3	A2
113	2	B5
114	3	A2
115	1	A
116	4	K0
117	1	B5
118	1	G5
119	3	F0
120	2	G5
121	1	K
122	1	A
123	3	K2
124	4	F5
125	2	A0

√	101	+22	3768	19	35.1	+22	13	9.5	
√	102	+21	3877	19	35.8	+21	56	8.9	
√	103	+21	3879	19	35.8	+21	50	9.3	
√	104	+22	3772	19	35.7	+22	0	9.3	P
√	105	+21	3880	19	36.1	+21	41	8.9	
√	106	+21	3881	19	36.2	+21	34	9.0	
√	107	+21		19		+21			P Not in DM
√	108	+21	3883	19	36.6	+21	44	9.4	
√	109	+21	3889	19	37.0	+21	55	9.4	
√	110	+21	3890	19	37.1	+21	56	9.5	
√	111	+21	3886	19	36.9	+21	18	9.2	
√	112	+21	3888	19	37.0	+21	4	8.7	
√	113	+21	3876	19	35.5	+21	9	9.1	
√	114	+20	4252	19	38.0	~~+20~~ 21	~~[illegible]~~ 0	9.0	
√	115	+20	~~4254~~ 4253	19	~~38.3~~ 38.1	+20	~~32~~ 45	9.~~5~~4	
√	116	+21	3899	19	38.6	+21	7	8.6	
√	117	+21		19		+21			P Not in DM.
√	118	+21	3892	19	37.5	+21	33	9.5	
√	119	+22	~~3893~~ 3790	19	37.~~5~~6	+22	~~23~~ 17	~~9.5~~ 9.3	
√	120	+22	3793	19	37.9	+22	23	9.3	
√	121	+22	3794	19	38.2	+22	9	9.5	
·	122	+22		19		+22			P. Not in DM
√	123	+22	3795	19	38.5	+22	15	8.9	
√	124	+22	3796	19	38.5	+22	13	8.8	
√	125	+22		19		+22			? Not in DM

Tuesday June 18, 1923

B53202

126	2	B8
127	1	F0
128	4	B5
129	2	A3
130	2	F0
131	4	K0
132	2	B9
133	1	A
134	2	A0
135	4	A0
136	4	B9
137	4	A3
138	5	G0
139	2	B
140	4	G0
141	3	A0
142	2	F5
143	1	K0
144	1	F0
145	1	K5
146	2	K0
147	4	B
148	2	B5
149	2	F5
150	2	A2

✓	126	+22	3797	19	39.1	+22	16	9.5	
✓	127	+22	3798	19	39.1	+22	6	9.5	
✓	128	+22	3901	19	39.8	+22	21	9.1	
✓	129	+21	3900	19	39.4	+21	24	9.4	
✓	130	+21	3901	19	39.5	+21	42	9.1	
✓	131	+21	3902	19	39.5	+21	55	8.4	
✓	132	+22	3806	19	40.7	+22	14	9.1	
✓	133	+22	9 380~~7~~	19	41.1	+22	18 ~~21~~	9.5	
✓	134	+22	38 09 ~~38X5~~	19	40.9	+22	34	9.3	
✓	135	+22	3765	19	34.7	+22	55	8.9	
✓	136	+22	3766	19	35.0	+22	56	8.9	
✓	137	+22	3769	19	35.3	+22	59	9.0	
✓	138	+23°	40 37~~35~~	19	35.7 ~~34.8~~	+23	2 ~~8~~	8.5 ~~9.3~~	
✓	139	+23	–	19		+23			? Not in DM.
✓	140	+22	3779	19	36.8	+22	51	8.8	
✓	141	+22	3783	19	37.2	+22	41	9.4	
✓	142	+22	3780	19	36.8	+22	17	9.5	
✓	143	+22	3786	19	37.3	+22	50	9.2	
✓	144	+22	3788	19	37.5	+22	55	9.4	
✓	145	+23	3753	19	37.8	+23	0	9.5	
✓	146	+23	46 37~~52~~	19	36.8 ~~37.8~~	+23	0	9.1 ~~9.5~~	
✓	147	+23	3745	19	36.7	+23	7	8.6	
✓	148	+22	3800	19	39.6	+22	51	9.0	
✓	149	+23	3766 ~~3901~~	19	39.7 ~~40.6~~	+23	3 5~~4~~	9.2	
✓	150	+22	3902	19	40.0	+22	51	9.2	

- Identified on Cards by I. Cassmun
" in book by E. F. Gill.

March, 11, 1925

B 53202 cont. to fill in a gap.

151	2	A_0
152	2	K_5
153	1	G_0
154	2	K_2
155	2	A_2
156	2	A_3
157	3	G_0
158	1	K_5
159	1	K_7
160	1	K_8
161	2	F_2
162	2	G_0
163	2	A_3
164	3	A_2
165	3	K_5
166	1	G_0
167	2	G_0
168	1	K_2
169	3	G_0
170	3	G_0
171	2	G_5
172	3	F_2
173	2	K_7
174	3	A_0
175	3	G_5

Identified on I 27641

151	✓ +19° 4043	19	24.3	+19	47	9.3
152	✓ +20° 4165	19	23.9	+20	20	9.3
153	✓ +20° 4166	19	24.0	+20	59.5	9.3
154	✓ +20° 4182	19	27.2	+20	16	9.2
155	✓ +19° 4057	19	26.9	+19	31	9.4
156	✓ +20° 4185	19	27.8	+20	2	9.4
157	✓ +20° 4189	19	28.7	+20	16	9.0
158	✓ +20 4198	19	29.9	+20	34	9.3
159	✓ +20 420~~1~~2	19	30.4	+20	43	9.2
160	✓ +20 4205	19	30.9	+20	45	9.4
161	✓ +21° 3850	19	31.2	+21	36	9.4
162	✓ +21° 3859	19	32.7	+21	44	9.3
163	✓ +22° 3750	19	31.9	+22	28	9.5
164	✓ +22° 3745	19	30.8	+22	6	9.2
165	✓ +21° 3841	19	30.0	+21	58	8.9
166	✓ +21° 3845	19	30.~~6~~3	+21	44 ~~37~~	9.5 ~~9.3~~
167	✓ +21 3847 ~~3845~~	19 ~~19~~	30.6 ~~30.3~~	+21 ~~+21~~	39 ~~44~~	9.3 ~~9.5~~
168	✓ +21° 3839	19	29.6	+21	59	9.5
169	✓ +21° 38~~2~~37	19	29.0	+21	46	9.4
170	✓ +21° 38~~2~~35	19	28.7	+21	23	9.3
171	✓ +21° 3832	19	28.2	+21	38	9.2
172	✓ +21° 3828	19	27.8	+21	26	9.4
173	✓ + 21° ~~22~~ 3825	19	27.5	+21 ~~+20~~	12	9.0
174	✓ +20 4184	19	27.6	+20	45	9.2
175	✓ + 21° ~~22~~ 3821	19	27.0	+ 21 ~~22~~	21	9.3

March 11, 1925

B 53202 cont.

	176	2	K_2
	177	2	G_5
	178	3	F_0
	179	1	M_0
	180	3	K_2
	181	2	K_5
	182	2	K_5
	183	3	a_0
	184	3	a_7
	185	2	a_0
	186	1	m_0
March 12 →	187	3	F_8
	188	3	a_3
	189	2	K_7
	190	4	F_5
	191	2	a_5
	192	2	a_0
	193	2	g_5
	194	3	a_5
	195	3	g_0
	196	2	a_7
	197	3	a_7
	198	5	g_0
	199	2	g_5
	200	6	K_0

Identified on I 27641

176	✓ +21° 3817	19	26.4	+21	8	9.2
177	✓ +21° 3823	19	27.2	+21	51	9.3
178	✓ +22° 3725	19	25.8	+22	5	9.3
179	✓ +22° 3731	19	26.9	+22	27	9.3
180	✓ +23° 3688	19	27.7	+23	1.5	9.0
181	✓ +23° 369$\overset{7}{8}$	19	28.8	+23	10.2	9.1
182	✓ +23° 3703	19	29.2	+23	0.6	9.2
183	✓ +23° 3705	19	29.6	+23	15	9.0
184	✓ +22° 3735	19	29.2	+22	36	9.4
185	✓ +22° 3739	19	29.7	+22	24	9.3
186	✓ +23° 3694	19	28.6	+23	34	8.4
	✓ +22 3743	19	30.6	+2$\overset{2}{3}$	56	9.2
187	~~+23 3704~~	~~19~~	~~30.8~~	~~+23~~	~~13~~	~~8.3~~
188	✓ +22 3748	19	31.4	+22	53	9.3
189	✓ +23° 3718	19	31.7	+23	20	9.5
190	✓	19	31.6	+23	48	
191	✓ +23° 3712	19	30.6	+23	40	9.3
192	✓ +23° 3713	19	30.7	+23	43	9.3
193	✓	19	32.1	+23	12	
194	✓ +23° 3720	19	32.3	+23	21	9.5
195	✓ +23° 3724	19	33.1	+23	16	9.2
196 197	} ✓ +22° 3760	19	33.8	+2$\overset{2}{3}$	58	9.1
198	✓ +23° 3725	19	33.3	+23	33	9.0
199	✓ +23° 3732	19	34.3	+23	39	9.2
200	✓ +23° 3734	19	34.7	+23	24	8.5

March 12, 1925

		B	53202
201	6	A_0	
202	6	G_0	
203	3	K_0	
204	3	B	
205	3	M_0	
206	3	F_8	
207	2	A_3	
208	4	B	
209	4	A_3	
210	3	B	
211	5	A_2	
212	1	K_5	
213	5	B_8	
214	2	M_0	
215	3	A_2	
216	2	K_7	
217	2	A_2	
218	3	K_0	
219	3	A_3	
220	4	F_8	
221	6	B_3	
222	6	A_2	
223	3	G_0	
224	2	F_2	
225	1	A_5	

Identified on I 27641

201	√+23° 3738	19	34.9	+23	47	8.5
202	√+23° 3739	19	35.5	+23	45	8.6
203	√+23° 3746	19	36.8	+23	0	9.1
204	√+22° 3782	19	37.0	+22	57	8.8
205	√+23° 37~~4~~51	19	37.8	+23	20	8.7
206	√+23° 37~~4~~50	19	37.8	+23	26	9.1
207	√+23° 37~~4~~56	19	38.5	+23	51	9.0
208	√+23° 3759	19	39.1	+23	42	8.9
209	√+23° 37~~4~~57	19	38.9	+23	32	9.4
210	√+23° 3761	19	39.3	+23	58	8.6
211	√+23° 3769	19	40.3	+23	30	9.0
212	√+23° 3771	19	40.4	+23	19	9.1
213	√+22° 5808	19	41.0	+23	55	8.6
214	√+23° 3772	19	41.1	+23	3	9.1
215	√+2~~3~~2° 3810	19	41.6	+2~~3~~2	49	9.4
216	√+23° 3775	19	41.7	+23	24	9.1
217	√+23° 3778	19	42.0	+23	31	9.5
218	√+23° 3789	19	43.0	+23	9	8.8
219	√+22° 3821	19	43.0	+22	45	9.3
220	√+22° 3822	19	43.1	+22	53	8.9
221	√+22° 3825	19	43.6	+22	38	8.8
222	√+22° 3829	19	44.1	+22	42	8.7
223	√+22° 3826	19	44.0	+22	57	9.0
224	√+23° 3791	19	43.0	+23	38	9.2
225	√+23° 3792	19	43.1	+23	41	9.5

March 12, 1925

B 53202

226	1	K_7	
227	2	G_0	
228	2	K	very hazy, 2 stars?
229	4	A_2	
230			
231			
232			
233			
234			
235			
236			
237			

Ident. on I 27641

226	✓ +23° 3795	19	43.7	+23	46	9.4
227	✓ +23° 3793	19	43.3	+23	21	9.5
228	✓ +23° 3797	19	43.9	+23	27	9.2
229	✓ +23° 3799	19	44.4	+23	18	9.0
230						
231						
232						
233						
234						
235						
236						
237						

Monday July, 16, 1923.

Recorded by R.F. Morrison

B53135

1	5	K0	
2	3	A0	
3	2	G	Confirm if possible
4	2	K5	
5	3	G0	
6	1	K0	Omit. Two stars.
7	1	K5	
8	2	F8	
9	2	K2	
10	3	A	Focus poor
11	4	A0	
12	2	A	
13	4	G5	Comp? K line appears faint.
14	6	A0	
15	4	G5	
16	1	A	
17	2	A3	
18	3	A3	
19	3	F2	
20	1	K2	
21	2	A	Comp? look up.
22	3		bright lines? look up
23	1	K0	
24	1	K5	
25	1	A0	

✓	1	+23	3817	19	47.1	+23	14	8.9	
✓	2	+23	3819	19	47.3	+23	6	9.4	
✓	3	+22	3845	19	47.4	+22	53	9.5	
✓	4	+22	3848	19	47.5	+22	45	9.3	
✓	5	+22	3849	19	47.7	+22	48	9.4	
	6	+22		19		+22			Not in DM
✓	7	+23	3823	19	47.5	+23	4	9.3	
✓	8	+23	3822	19	47.5	+23	8	9.5	
✓	9	+23	3824	19	47.7	+23	27	9.5	
✓	10	+23	3825	19	47.8	+23	23	9.3	
✓	11	+23	3826	19	47.8	+23	11	9.2	
✓	12	+23	3827	19	48.0	+23	21	9.5	
✓	13	+23	3830	19	48.4	+23	3	9.0	
✓	14	+23	3831	19	48.5	+23	19	8.8	
✓	15	+23	3832	19	48.5	+23	48	9.1	
✓	16	+23		19		+23			Not in DM
✓	17	+23	3836	19	49.1	+23	46	9.4	
✓	18	+23	3837	19	49.1	+23	19	9.5	
✓	19	+23	3838	19	49.2	+23	18	9.1	
✓	20	+23		19		+23			Not in DM
✓	21	+23	3834	19	48.7	+23	5	9.2	
✓	22	+23	3835	19	48.8	+23	6	9.4	
✓	23	+23		19		+23			Not in DM
✓	24	+23	3841	19	50.0	+23	1.8	9.5	
✓	25	+23		19		+23			Not in DM

Monday, July 16, 1923 –

B53135

26	2	F0	
27	2	F0	
28	1	F0	
29	8	K	Burned out
30	3	F0	
31	2	A5	
32	3	F0	
33	2	K5	
34	2	F0	
35	5	A0	
36	2	A5	
37	1	K2	
38	2	K2	
39	1	K5	
40	2	F5	
41	3	K0	
42	2	A0	
43	4	K0	
44	2	F5	
45	2	A5	
46	3	A5	
47	3	Ma	
48	3	G0	
49	1	G0	
50	2	F2	

✓	26	+23		19		+23			Not in DM
✓	27	+23	3844	19	50.5	+23	6	9.4	
✓	28	+23		19		+23			Not in DM
.	29	+23	3845	19	50.6	+23	23	7.0	
✓	30	+22	3857	19	49.3	+22	41	9.2	
✓	31	+22	3858	19	49.5	+22	30	9.4	
✓	32	+22	3859	19	49.9	+22	48	9.2	
✓	33	+22	3856	19	48.5	+22	41	9.4	
✓	34	+22	3853	19	48.3	+22	30	9.5	
✓	35	+22	3852	19	48.1	+22	38	8.9	
✓	36	+22	3851	19	48.0	+22	40	9.5	
✓	37	+22	3861	19	50.5	+22	42	9.5	
✓	38	+23	3846	19	51.1	+23	2	9.5	
✓	39	+23	3850	19	52.0	+23	8	9.5	
✓	40	+23		19		+23			Not in DM
✓	41	+22	3867	19	52.1	+22	55	9.0	
✓	42	+23	3852	19	52.3	+23	6	9.5	
✓	43	+23	3855	19	52.6	+23	5	8.6	
✓	44	+23		19		+23			Not in DM
✓	45	+23	3853	19	52.5	+23	42	9.4	
✓	46	+23	3854	19	52.5	+23	35	9.4	
✓	47	+23	3856	19	52.6	+23	58	8.6	
✓	48	+24	3951	19	52.6	+24	4	9.0	
✓	49	+23	3857	19	53.1	+23	52	9.5	
✓	50	+23	3859	19	53.2	+23	52	9.3	

Monday, July 16, 1923

B53135

51	3	G5
52	3	F0
53	1	G0
54	2	G5
55	1	F8
56	3	F0
57	1	K0
58	2	K2
59	3	A0
60	2	G0
61	1	F2
62	2	G5
63	1	A5
64	3	A2
65	2	F5
66	2	A3
67	2	G5
68	1	G0
69	1	K5
70	1	A2
71	2	K2
72	2	G0
73	2	F2
74	2	F8
75	1	A2

✓	51	+23	3860	19	53.2	+23	45	9.1	
.	52	+23	386~~8~~1	19	53.~~6~~3	+23	~~53~~ 59	9.x 3	very bright – error in DM Cat? star is about 2' south of pos. given
✓	53	+23		19		+23			Not in DM
✓	54	+23	3~~7~~864	19	53.7	+23	38	9.0	
✓	55	+23		19		+23			Not in DM
✓	56	+23	3863	19	53.6	+23	53	9.1	〃 〃
✓	57	+23		19		+23			Not in DM
.	58	+22	3880	19	53.6	+22	47	9.3	
	58a	+23		19		+23			Not in DM } stars numbered 58 a
✓	59	+23	3865	19	54.1	+23	16	9.5	
✓	60	+23	3869	19	54.6	+23	33	9.5	
✓	61	+23		19		+23			Not in DM
✓	62	+23	3866	19	54.4	+23	54	9.2	
✓	63	+24	3968	19	55.1	+24	2	9.4	
✓	64	+24	3974	19	55.5	+24	10	9.2	
✓	65	+23	3871	19	55.7	+23	42	9.3	
✓	66	+23	3872	19	55.7	+23	38	9.5	~~Not in DM~~
✓	67	+23	3870	19	55.2	+23	27	9.3	
✓	68	+22	3888	19	54.5	+22	56	9.5	~~Not in DM.~~
✓	69	+22	3886	19	54.3	+22	38	9.5	
✓	70	+22	3892	19	55.2	+22	42	9.5	
✓	71	+22	3893	19	55.5	+22	31	9.3	
✓	72	+22	3896	19	55.8	+22	57	9.3	
✓	73	+23	3875	19	56.2	+23	0	9.5	
✓	74	+23	3876	19	56.~~5~~4	+23	8	9.5	
✓	75	+23		19		+23			Not in DM

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B53135

76	4	A2
77	3	G5
78	3	B9
79	1	A0
80	1	A0
81	2	A2
82	1	K5
83	3	A0
84	2	A0
85	3	K0
86	2	F0
87	2	K5
88	2	F8
89	1	K5
90	3	K0
91	1	A0
92	2	G0
93	2	A2
94	2	A0
95	4	A0
96	2	G5
97	5	F0
98	3	F5
99	4	F8
100	2	A0

✓	76	+23	3877	19	56.4	+23	51	9.3	
✓	77	+23	3881	19	57.1	+23	41	9.0	
✓	78	+23	3879	19	56.9	+23	18	9.2	
✓	79	+23		19		+23			Not in DM
✓	80	+23		19		+23			" " "
✓	81	+23	3880	19	57.0	+23	+	9.5	" " "
✓	82	+23	3880	19	57.0	+23	1	9.5	
✓	83	+22	3900	19	56.7	+22	45	9.1	
✓	84	+22	3897	19	56.3	+22	38	9.5	
✓	85	+22	3898	19	56.3	+22	24	9.2	
✓	86	+22	3899	19	56.4	+22	21	9.5	
✓	87	+22	3894	19	55.5	+22	10	9.2	
✓	88	+22	3895	19	55.6	+22	20	9.4	
✓	89	+22		19		+22			Not in DM.
✓	90	+21	4033	19	56.8	+21	52	9.0	
✓	91	+22	3901	19	56.8	+22	2	9.5	
✓	92	+22	3906	19	57.5	+22	9	9.5	
✓	93	+22	390~~7~~ 3	19	57.~~6~~ 5	+22	~~23~~ 24	9.~~4~~ 5	
✓	94	+22	3910	19	58.~~2~~ 1	+22	26	9.5	~~Not in DM~~
✓	95	+22	3911	19	58.~~7~~ 3	+22	32	9.2	
✓	96	+22	3914	19	58.7	+22	32	9.4	
✓	97	+21	4040	19	58.0	+21	57	8.9	
✓	98	+21	4042	19	58.3	+21	51	9.2	
✓	99	+21	4045	19	58.7	+21	40	9.2	
✓	100	+21	4048	19	59.1	+21	30	9.4	

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B 53135

101	2	F8	
102	2	F5	
103	2	K2	another star sup. at s.
104	2	F2	
105	2	A5	
106	1	Ma	
107	1	K2	
108	1	A0	
109	1	K0	
110	2	K0	
111	2	K2	
112	1	K2	
113	1	A5	
114	3	A0	
115	1	F0	
116	2	A2	
117	2	F8	
118	2	F0	
119	1	A0	
120	3	K0	
121	1	A2	
122	2	A0	
123	3	K0	
124	1	A	
125	1	A0	

✓	101	+22	3917	19	59.4	+22	4	9.5	
✓	102	+22	3920	19	59.6	+22	23	9.5	
✓	103	+22	3922	19	59.7	+22	23	9.5	another star superposed at south.
✓	104	+22	3915	19	59.1	+22	56	9.4	
✓	105	+22	3919	19	59.5	+22	48	9.5	
✓	106	+23	3893	19	59.8	+23	14	9.5	
✓	107	+23		19		+23			Not in DM
✓	108	+23		19 20		+23			" " "
✓	109	+23	3895	19 20	0.4	+23	34	9.5	
✓	110	+23	3898	20	0.8	+23	33	9.5	
✓	111	+23	3899	20	1.0	+23	49	9.4	
✓	112	+23		20		+23			Not in DM
✓	113	+23		20		+23			" " "
✓	114	+23	3900	20	1.4	+23	4	9.4	
✓	115	+23		20		+23			Not in DM.
✓	116	+23		20		+23			" " "
✓	117	+22		20		+22			Not in DM
✓	118	+22	3934	20	1.6	+22	41	9.5	
✓	119	+22	3935	20	1.8	+22	39	9.5	
✓	120	+22	3936	20	1.9	+22	51	8.8	
✓	121	+23	3903	20	2.1	+23	8	9.5	
✓	122	+23	3904	20	2.5	+23	12	9.5	
✓	123	+22	3939	20	2.4	+22	32	9.3	
✓	124	+22		20		+22			Not in DM
✓	125	+22		20		+22			" " "

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B53135

126	2	F8
127	1	K2
128	3	A0
129	2	K0
130	1	A0
131	1	K5
132	3	A0
133	1	A0
134	3	Ma
135	1	A0
136	1	M
137	2	G5
138	4	G0
139	3	A3
140	3	G0
141	1	Ma
142	2	K2
143	3	A2
144	4	K0
145	1	A
146	3	A0
147	2	K0
148	1	K0
149	4	G0
150	4	A0

✓	126	+22		20		+22			Not in DM
✓	127	+22		20		+22			" " "
✓	128	+22	3931	20	1.0	+22	3	9.3	
✓	129	+22	3932	20	1.1	+22	~~3~~ 14	9.5	
✓	130	+22	3930	20	0.9	+22	16	9.5	
✓	131	+22	3929	20	0.6	+22	15	9.5	
✓	132	+22	3927	20	0.1	+22	12	9.5	
✓	133	+22		20 19		+22			Not in DM
✓	134	+22	3943	20	2.8	+22	34	8.8	
✓	135	+22		20		+22			Not in DM
✓	136	+22		20		+22			" " "
✓	137	+22	3945	20	3.8	+22	38	9.5	
✓	138	+22	3948	20	4.2	+22	57	8.9	
✓	139	+22	3950	20	4.4	+22	57	9.5	
✓	140	+22	3951	20	4.4	+22	45	9.0	
✓	141	+22	3952	20	4.5	+22	56	9.4	
✓	142	+22	3954	20	4.8	+22	46	9.4	
✓	143	+22	3955	20	5.1	+22	35	9.5	
✓	144	+22	3956	20	5.4	+22	28	8.7	
✓	145	+22	3957	20	5.4	+22	15	9.5	
✓	146	+22	3953	20	4.6	+22	12	9.1	
✓	147	+22	3949	20	4.2	+22	26	9.5	
✓	148	+22		20		+22			Not in DM
✓	149	+22	3942	20	2.8	+22	1	8.6	
✓	150	+ 2~~2~~ +	4074	20	2.7	+ 2~~2~~ +	~~27~~ 00	9.2	

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B53135

151	4	K0
152	4	F8
153	2	K0
154	1	K5
155	1	G
156	1	A0
157	3	K2
158	3	F0
159	1	K0
160	1	G5
161	1	K5
162	1	K0
163	4	A
164	7	A
165	1	K5
166	1	K5
167	1	G
168	7	F
169	4	A0
170	3	G5
171	4	F8
172	2	G5
173	3	G0
174	4	G0
175	3	A0

✓	151	+22	3938	20	2.0	+22	4	9.2	
✓	152	+21	4066	20	1.8	+21	56	9.0	
✓	153	+22	3933	20	1.5	+22	1	9.3	
✓	154	+22	3937	20	1.9	+22	13	9.4	
✓	155	+22		20		+22			Not in DM
✓	156	+22		20		+22			Not in DM
✓	157	+21	4079	20	4.2	+21	40	9.2	
✓	158	+21	4080	20	4.3	+21	44	9.5	
✓	159	+21	4086	20	4.7	+21	46	9.5	
✓	160	+21		20		+21			Not in DM
✓	161	+21	4087	20	4.8	+21	51	9.3	
✓	162	+22	3946	20	4.2	+22	8	9.5	
✓	163	+24	3918	19	47.0	+24	4	9.4	
✓	164	+24	3919	19	47.1	+24	1	8.9	
✓	165	+24	3917	19	46.5	+24	36	9.2	
✓	166	+24	3920	19	47.2	+24	29	9.5	
✓	167	+24	3921	19	48.2	+24	25	9.5	
✓	168	+24	3922	19	48.5	+24	12	9.1	
✓	169	+24	3923	19	48.6	+24	10	9.1	
✓	170	+23	3839	19	49.7	+23	50	9.1	
✓	171	+23	3840	19	49.8	+23	54	9.1	
✓	172	+24	3933	19	49.8	+24	15	9.4	
✓	173	+24	3932	19	49.8	+24	37	9.0	
✓	174	+24	3934	19	49.9	+24	34	9.0	
✓	175	+24	3936	19	50.4	+24	57	9.0	

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B53135

176	5	F8
177	2	G0
178	1	A0
179	1	K0
180	1	G
181	2	A5
182	1	F0
183	1	K5
184	4	A0
185	2	G5
186	4	K0
187	4	B8
188	3	G5
189	1	A
190	1	G5
191	1	F0
192	4	G0
193	1	F0
194	1	F5
195	1	F5
196	1	K5
197	3	K0
198	1	A
199	1	A
200	3	G0

✓	176	+24	~~3934~~ 3937	19	~~51.4~~ 50.6	+24	~~24~~ 25	~~8.2~~ 8.8	
✓	177	+24	3925	19	50.2	+24	11	~~9.3~~ 9.5	
✓	178	+24	3939	19	50.8	+24	29	9.5	
✓	179	+24	3942	19	~~51.5~~ 51.4	+24	24	9.5	
✓	180	~~+24~~ +23	3842	19	50.3	~~+24~~ +23	50	9.5	
✓	181	+24	3941	19	51.2	+24	7	9.5	
✓	182	+24		19		+24			Not in D.M.
✓	183	+24	3944	19	51.7	+24	23	9.5	
✓	184	+24	3947	19	51.9	+24	28	9.0	
✓	185	+24	3948	19	51.9	+24	27	9.2	
✓	186	+24	3943	19	51.6	+24	45	8.9	
✓	187	+24	3946	19	51.8	+24	57	9.3	
✓	188	+25	4044	19	52.0	+25	6	9.0	
✓	189	+25	~~4044~~	19	~~52.0~~	+25	~~6~~		Not in DM
✓	190	+24	3954	19	52.9	+24	54	9.5	
✓	191	+24	3952	19	52.7	+24	27	9.4	
✓	192	+24	3953	19	52.7	+24	33	8.8	
✓	193	+24	~~3954~~ 3955	19	~~52.9~~ 53.0	+24	~~54~~ 21	~~9.5~~ 9.4	
✓	194	+24	3956	19	53.1	+24	34	9.5	
✓	195	+24	3959	19	53.4	+24	34	9.4	
✓	196	+24	3961	19	53.6	+24	28	9.4	
✓	197	+24	3957	19	53.4	+24	10	9.0	
✓	198	+24		19		+24			Not in DM
✓	199	+24		19		+24			— "
✓	200	+24	3960	19	53.5	+24	49	9.0	

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201	3	G5
202	2	F8
203	1	M
204	1	G
205	4	A2
206	1	A
207	2	F5
208	2	A2
209	2	K0
210	2	G5
211	4	K2
212	2	A0
213	1	G0
214	1	G0
215	2	G5
216	1	F5
217	2	A5
218	2	G0
219	5	F0
220	1	M
221	1	F
222	2	K0
223	3	G0
224	1	A3
225	1	A5

✓	201	+24	3965	19	54.7	+24	45	8.6	
✓	202	+25	4065	19	55.0	+25	1	9.4	
✓	203	+24	3970	19	55.2	+24	36	9.5	
✓	204	+25		19		+25			Not in Dble
✓	205	+25	4071	19	55.5	+25	28	9.1	
✓	206	+25	~~4078~~	19	~~56.8~~	+25	~~5~~	~~9.5~~	Not in Dble
✓	207	+25	4074	19	56.1	+25	14	9.4	
✓	208	+25	4078	19	56.8	+25	~~14~~ 5	~~9.4~~ 9.5	
✓	209	+24	3982	19	56.4	+24	39	9.5	
✓	210	+24	3981	19	56.4	+24	49	9.5	
✓	211	+24	3979	19	56.0	+24	45	8.3	
✓	212	+24		19		+24			Not in Dble.
✓	213	+24	[illegible]76	19	55.8	+24	17	9.5	
✓	214								
✓	215						0		
✓	216		3984	19			38		
✓	217	+24	3985	19		+24	31		
✓	218	+24	3986	19	57.2	+24	31	9.5	
✓	219	+24	3987	19	57.4	+24	31	8.6	
✓	220	+24		19		+24			Not in Dble.
✓	221	+24		19		+24			"
✓	222	+24	3989	19	57.8	+24	25	9.5	——
✓	223	+23	3882	19	57.5	+23	48	9.2	
✓	224	+23	3883	19	57.5	+23	50	9.5	
✓	225	+23		19		+23			Not in Dble.

18 56 | 23
19.16 | 26

✓	201	+24	3965	19	54.7	+24	45	8.6	
✓	202	+25	4065	19	55.0	+25	1	9.4	
✓	203	+24	3970	19	55.2	+24	36	9.5	
✓	204	+25		19		+25			Not in Dble
✓	205	+25	4071	19	55.5	+25	28	9.1	
✓	206	+25	~~4078~~	19	~~56.8~~	+25	~~5~~	~~9.5~~	Not in Dble
✓	207	+25	4074	19	56.1	+25	14	9.4	
✓	208	+25	4078	19	56.8	+25	~~14~~ 5	~~9.4~~ 9.5	
✓	209	+24	3982	19	56.4	+24	39	9.5	
✓	210	+24	3981	19	56.4	+24	49	9.5	
✓	211	+24	3979	19	56.0	+24	45	8.3	
✓	212	+24		19		+24			Not in Dble.
✓	213	+24	3976	19	55.8	+24	17	9.5	
✓	214	+24	3980	19	56.3	+24	8	9.5	
✓	215	+24	3983	19	56.6	+24	10	9.5	
✓	216	+24	3984	19	56.9	+24	38	9.5	
✓	217	+24	3985	19	57.0	+24	31	9.5	
✓	218	+24	3986	19	57.2	+24	31	9.5	
✓	219	+24	3987	19	57.4	+24	31	8.6	
✓	220	+24		19		+24			Not in Dble.
✓	221	+24		19		+24			" "
✓	222	+24	3989	19	57.8	+24	25	9.5	
✓	223	+23	3882	19	57.5	+23	48	9.2	
✓	224	+23	3883	19	57.5	+23	50	9.5	
✓	225	+23		19		+23			Not in Dble.

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226	3	A3	
227	2	K5	
228	1	M	
229	1	K5	
230	1	A5	
231	2	A0	
232	3	K0	
233	1	K5	
234	2	A2	
235	2	A0	
236	1	A	
237	3	K2	
238	2	A.	Partly sup. on 239 –
239	4	G0	
240	3	B9	
241	1	F	
242	2	G0	
243	1	F0	
244	1	M0	
245	1	A2	
246	1	A3	
247	2	F5	
248	2	G0	
249	1	F8	
250	1	A0	

✓	226	+23	3888	19	58.2	+23	21	9.3	
✓	227	+23		19		+23			Not in DM.
✓	228	+23	3886	19	58.1	+23	7	9.5	
✓	229	+23	3887	19	58.2	+23	1	9.5	
✓	230	+23	3889	19	58.6	+23	11	9.5	
✓	231	+23		19		+23			Not in DM
✓	232	+23	3890	19	58.7	+23	17	9.1	
✓	233	+23		19		+23			Not in DM
✓	234	+23		19		+23			" " "
✓	235	+23	3892	19	59.5	+23	47	9.5	—
✓	236	+23		19		+23			Not in DM.
✓	237	+23	3894	20	0.0	+23	56	9.0	
✓	238	+24	4001	20	0.5	+24	4	9.5	
✓	239	+24	4002	20	0.5	+24	1	8.4	
✓	240	+24	3992	19	58.7	+24	9	9.1	
✓	241	+24		19		+24			Not in DM
✓	242	+24	3994	19	59.0	+24	24	9.2	
✓	243	+24	3993	19	59.0	+24	28	9.5	
✓	244	+25	4095	19	59.3	+25	2	9.4	~~Not in DM~~
✓	245	+25	4096	19	59.4	+25	0	9.5	
✓	246	+24		19		+24			Not in DM
✓	247	+24		19		+24			" " "
✓	248	+24	4000	20	0.5	+24	33	9.2	
✓	249	+24	4004	20	0.8	+24	24	9.5	
✓	250	+24	4003	20	0.7	+24	34	9.5	

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251	3	F8
252	3	A0
253	1	K2
254	2	F5
255	1	Ma
256	3	G5
257	1	M
258	4	G0
259	1	K5
260	1	Ma
261	4	F0
262	2	F0
263	1	K5
264	2	F8
265	5	A5
266	2	K0
267	5	F5
268	2	K2
269	1	M
270	1	M
271	4	G0
272	2	Mb
273	3	K0
274	4	G0
275	3	F5

✓	251	+24	4005	20	0.8	+24	51	9.3	
✓	252	+24	4006	20	1.0	+24	48	9.5	
✓	253	+25	4104	20	0.8	+25	13	9.11	~~Not in DM.~~
✓	254	+24	4007	20	1.~~4~~5	+24	56	9.3	
✓	255	+25	4114	20	2.3	+25	8	9.1	
✓	256	+24	4017	20	2.8	+24	55	8.6	
✓	257	+24	4019	20	2.8	+24	46	9.5	
✓	258	+24	4008	20	1~~8~~5	+24	12	8.7	
✓	259	+23	3901	20	1.7	+23	42	9.5	
✓	260	+23	3902	20	1.7	+23	50	9.4	
✓	261	+25	4106	20	1.3	+25	26	9.4	
✓	262	+25	4107	20	1.4	+25	33	9.4	
✓	263	+25	4108	20	1.4	+25	35	9.5	
✓	264	+25	~~4111~~ 4110	20	~~2.0~~ 1.9	+25	~~30~~ 44	~~8.8~~ 9.5	
✓	265	+25	4111	20	2.6	+25	~~30~~	8.8	
✓	266	+25	4112	20	2.1	+25	27	9.2	
✓	267	+25	4115	20	2.5	+25	31	8.8	
✓	268	+25	4118	20	2.7	+25	23	9.4	
✓	269	+25	4120	20	3.2	+25	40	9.4	
✓	270	+25	4122	20	3.4	+25	38	9.5	
✓	271	+25	4121	20	3.3	+25	47	9.0	
✓	272	+25	4126	20	4.0	+25	52	9.3	
✓	273	+25	4127	20	4.1	+25	11	9.2	
✓	274	+24	4027	20	4.1	+24	57	8.6	
	275	+25	4130	20	4.3	+25	6	9.4	