

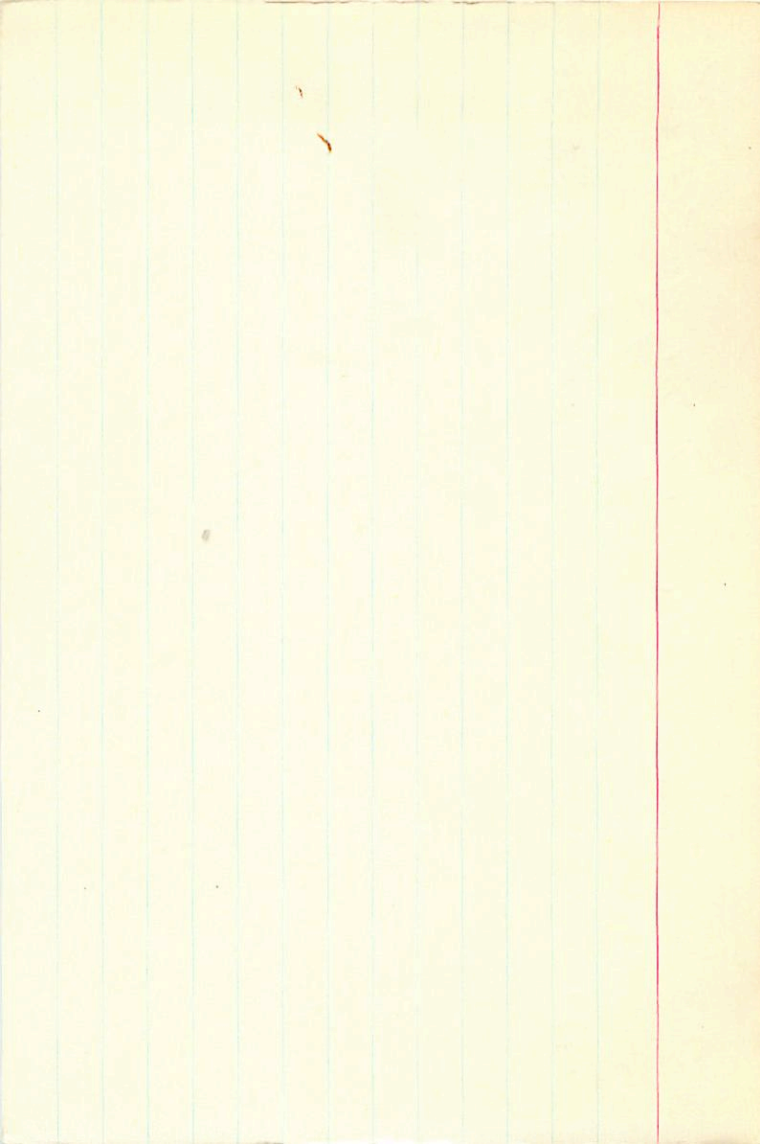
27293

+420939

2486

4 17.0 +43 07 7.4 dms +1c<sup>2v</sup>

+0008 +035±9 Cm<sup>25</sup>



47.977 4 10.9 +47 59 229

4 17.9 52.6 +48 12.81

4954.1  
47 M(15)

68  
34  
1.02

78.2 (4)

-032 MR

45  
75

MC-AC -030 +028

22  
-0.032 +0.028 71.0

9.118 7.5

9.62 8.92 +0.45 (2)

40  
62  
7  
1

78

7/8

229.000\*

4.000\*

17.900\*

48.000\*

13.000\*

-0.032\*

0.028\*

2.200\*

27.542

~~-71.000~~

-74.5

-0.086

0.985

~~-69.75~~

~~66.591~~

0.182

0.426

~~-26.71~~

~~-25.229~~

-0.012

-0.019

1.10

1.036

1.75

0.44.7

-69.3

2.716

fl. 2

way 600? NO

20710

4 19.4 -25 51 dF2

HR1374 km=00

Q15020

6.01+0.345-0.055 593

TOV25-056 *Quadrant*

3513 9719  
9116 8717

047-056

1233 141.552 - 325 112 -  
6.08 .283 .178 .541 2702 212141420  
1282 170 .546 2702

[m] 212 +3

8.19 +57 +02 279

[e] 454 -15

308 794 538  
637 590 -496  
707 140 -682

+0672-1821  
-13811-  
+18541-0441

6h11-  
6552-  
20114

+9.4  
A.82  
-11.2

910

$$\begin{array}{r} +0033 \text{ } 50.7 \\ -066 \text{ } \pm 33 \\ -046 \\ \hline 117 \end{array}$$

$$\begin{array}{r} 26.664 \\ +0035 \\ \hline 411.64 \text{ } 15044 \end{array}$$

$$\begin{array}{r} 148 \\ \hline 1548 \\ +0034 -047 \\ \hline 89.41 \end{array}$$

$$\begin{array}{r} 26.661 \\ +0034 -046 \\ \hline 411.35 \text{ } 1525.32 \end{array}$$

$$\begin{array}{r} +7 \\ \hline 26.665 \\ +0034 \\ \hline 411.03 \\ -1.62 \\ \hline \end{array}$$

1.73 -

4.24  
4.24  
4.24  
4.24  
4.24  
4.24

3.25  
4.24

905-306  
+178  
+707

152  
189  
209.70  
GLS HC  
ACB

0.23  
0.10  
6.83

4.24  
4.24  
4.24  
4.24  
4.24  
4.24

116

2.44  
2.44  
2.44

4.05 + 3.05 (1.59)

4.25  
1.51

4.24  
4.24  
4.24

167  
167  
167  
167  
167  
167

4.05  
3.05  
1.59

3.25

39.32  
32.63  
41.48  
31.52

32.0

4.24  
1.51

32.0

5.48  
1.48

4.05

6-5290  
27710  
2527

4.24  
4.24  
4.24  
4.24

5.5 d f 2  
+ 17.5 d f 2  
(+12.7 d f 2)

4.24  
4.24  
4.24  
4.24

4  
1.94

4  
1.94



-7.4 +1.5  
 16.4 -2.5  
 +6.4 +5.2

" "   
 +.047 -0.53

w  
 1 plate  
 +24 d

41.7 mo

-1308 -5.5 +12.6  
 -2887 -12.0 -12.1  
 +1128 +4.7 -16.4

+7.1  
 -24  
 -11.7

46.4  
 -6.1  
 -13.5  
 +5.3

+6  
 -26  
 -11

+0686 -1994  
 -1426 -1161  
 +1575 -0447

+308 +794 +524  
 -640 +582 -506  
 +707 +178 -685

17

2-125 x 10-5

59 x 10<sup>2</sup>  
 2-01 x 501  
 125 x 10

+28° 86.26

4 15.1

+27

28

442

4

20 57.7

+27

41.36

McC-AC -0.016 -0.030

10.7 K8 +6.9

+26°10380

4 16.6

+25 58

443

4

22 24.1

+26

11.17

McC-AC +0.048 -0.086

11.0 K8 +7.4

+33°858

4

16.7

+33

52

444

4

22 51.4

+34

5.14

McC-AC -0.007 +0.104

10.6: K8 +7.4

+26.10542      4   19.8   +25 5-4      230

4   25   36.3   ,   +26 6.77

MC-A6-4071-050      10.7 010 + 5.5

SLP ✓ 819 ✓ 822 ✓ A ✓  
✓ 819 ✓ 822 ✓ 0974  
5657 9738 ✓  
8225 ✓ 819 ✓ 0151

✓  
0151  
✓

+0°623-52

4 22.8 +0 39

4 27 41.4 +0 51.44

446

McC-AC +0.086 -0.065

10.53 Mo +8.0

11/19/10

Bank AA 11/25

28527 4 27.7 716 05 4.7 ag A8m +37.5c

2640 VB8 ✓

5480 1421

32

+0071 -027 N30

+0074E 2.4 -026 ± 2.06c → N30

+1130  
+126

EQ 1011

0250

HC 101

242 955

1701

1072-21201

107 -26 106 HC

90

232

978

254

VR

5035

959

1111

1076

ABNO

1076

00N3

943 169c

088 217965 2856

113

-24

3.57

+37.5

4.78 -018 1.02N5

0.20

0220 310

78



78

R.A. : 4.450  
DEC. : 16.100  
L. R.A. : 113.000  
L. DEC. : -24.000  
DISTANCE : 3.570  
MODULUS : 52  
D. VEL. : 37.500

q1 (U) : 0.283  
q2 (U) : 0.235  
q3 (U) : 0.930  
dU : 118.900  
U : 41.027

q1 (V) : -0.630  
q2 (V) : 0.776  
q3 (V) : -0.004  
dV : -412.755  
V : -21.521

q1 (W) : 0.723  
q2 (W) : 0.585  
q3 (W) : -0.368  
dW : 305.389  
W : 2.018

HR1427

4 22.7 +14 05 +32.5a

4.78 +0.17 +0.13 A7B

$$\begin{array}{r}
 +108-028C \\
 +102-027N \\
 \hline
 +105-026
 \end{array}$$

Windy

50 lb 10<sup>31</sup>

098-021

5030  
8443

$$\begin{array}{r}
 9652 \\
 -2619 \\
 \hline
 1027 \\
 -0044 \\
 \hline
 \end{array}$$

920352 227 561 +099 5047 +40.1 -013 +11 -213  
-091 012 039 -005 -407 212 +38.5 +15 +35 025

0 + 43 + 0

[+39 -17 -6]

+3.2328-36      4    24.8    +3    48      231

4    29.547.8    +4    0.18

DM=1 m

2:7    *John*

MG-AC 1096 -337

10.3 110 +8.8

+52° 857

4 26.3  
4 29.8  
4 33.7 44.0

+52 37  
+52 42  
+52 48.83

449

Y1010

(+10232974  
W265 726  
315 -752 5604  
Yale Zone +0.307 -0.454

340 -470 (Candy)

308-470

+36.266w  
dmi

7822 5907  
6218 -5069  
-13  
0.22  
0.55  
8.8 Map +9.4  
+0:091

+0.311 -0.465

+0.310 -0.460

+334 +524 M<sup>2</sup>  
+305 -170 L

0.23  
50  
-10  
0.1  
130

-1.4  
0.787  
664

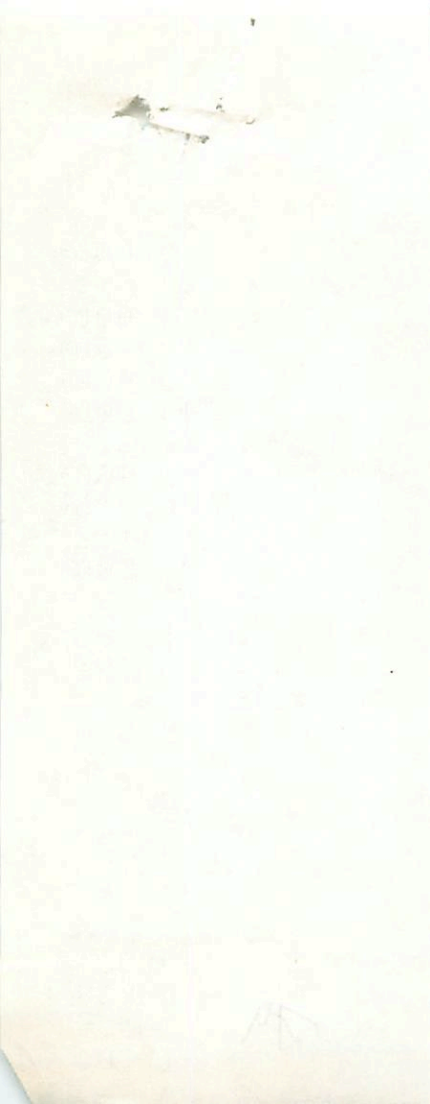
8.60 7.66 +0.65 (2)

+310 -465  
-0.1  
7822 5907 5612  
6218 -8089 1429

560 147° L



79



0.000\*

4.000\*

33.700\*

52.000\*

48.000\*

0.310\*

-0.460\*

0.230\*

11.117

36.200

1.195

0.891

45.530

-2.311

0.449

-9.421

-0.381

0.063

-1.786

*Handwritten signature*



Faint, illegible text, possibly bleed-through from the reverse side of the page.

MS

449.000\*

4.000\*

33.700\*

52.000\*

48.000\*

0.310\*

-0.465\*

-0.100\*

9.550

~~34.000~~

1.204

0.891

42.494

-2.326

0.449

-6.573

-0.397

0.068

79

-1.435

RAD. VEL. : 30.000  
 MODULUS : 10  
 DISTANCE : 0.100  
 PM. DEC. : -400.000  
 PM. R.A. : 213.000  
 DEC. : 22.000  
 R.A. : 4.250

p1 (U) : 0.281  
 p2 (U) : -0.373  
 p3 (U) : 0.890  
 qb : 1197.223  
 u : 39.248

p1 (V) : -0.222  
 p2 (V) : 0.938  
 p3 (V) : 0.421  
 qb : -2309.0  
 u : -10.991

p1 (M) : 0.739  
 p2 (M) : 0.274  
 p3 (M) : 0.089  
 qb : -389.829  
 u : -2.070



R.A. : 4.550  
DEC. : 52.800  
PM. R.A. : 513.000  
PM. DEC. : -460.000  
DISTANCE : 0.100  
MODULUS : 10  
RAD. VEL. : 30.000

q1 (U) : 0.261  
q2 (U) : -0.373  
q3 (U) : 0.890  
dU : 1197.523  
U : 39.248

q1 (V) : -0.625  
q2 (V) : 0.638  
q3 (V) : 0.451  
dV : % -2309.00  
V : -10.661

79

q1 (W) : 0.736  
q2 (W) : 0.674  
q3 (W) : 0.066  
dW : -386.826  
W : -2.050

\*  
4 28.1 +48 18 450  
4 35 10.4 +48 29.63

Double;  $d = 5''$ ,  $\Delta m = 0.3$  mag.

Ugualshy

11.2: MO + 8.2

+9°621      4    31.8      +9    35      451

4    37.000      +9    46.27

1030.0

52  
26  
7

TRN 2000

Yak Zone 10.005 -0.362

-10 + 3

-2 + 3

-0.007 -0.356

~~-0.027~~ -0.348

8.32

7.71

4.5

8.6

7 → 22

229

-0.015 -0.350

-213

356

-22

-355

2.05

-009 -368 66

-013 -340 L

9.2: KS +6.9

100.043

40

451.000\*

4.000\*

37.000\*

9.000\*

46.000\*

0.022\*

-0.355\*

2.050\*

25.704

-21.300

-0.536

0.910

-33.165

-1.370

-0.117

-32.725

-0.824

-0.398

-12.681

*J*



48217

48217 B

48217

4 820

48217 + 9 430

I

48217

48217

48217

48217

682-256

451

4

37.0

+9

47

+40621

1851  
13  
172  
5071  
191  
5770  
928

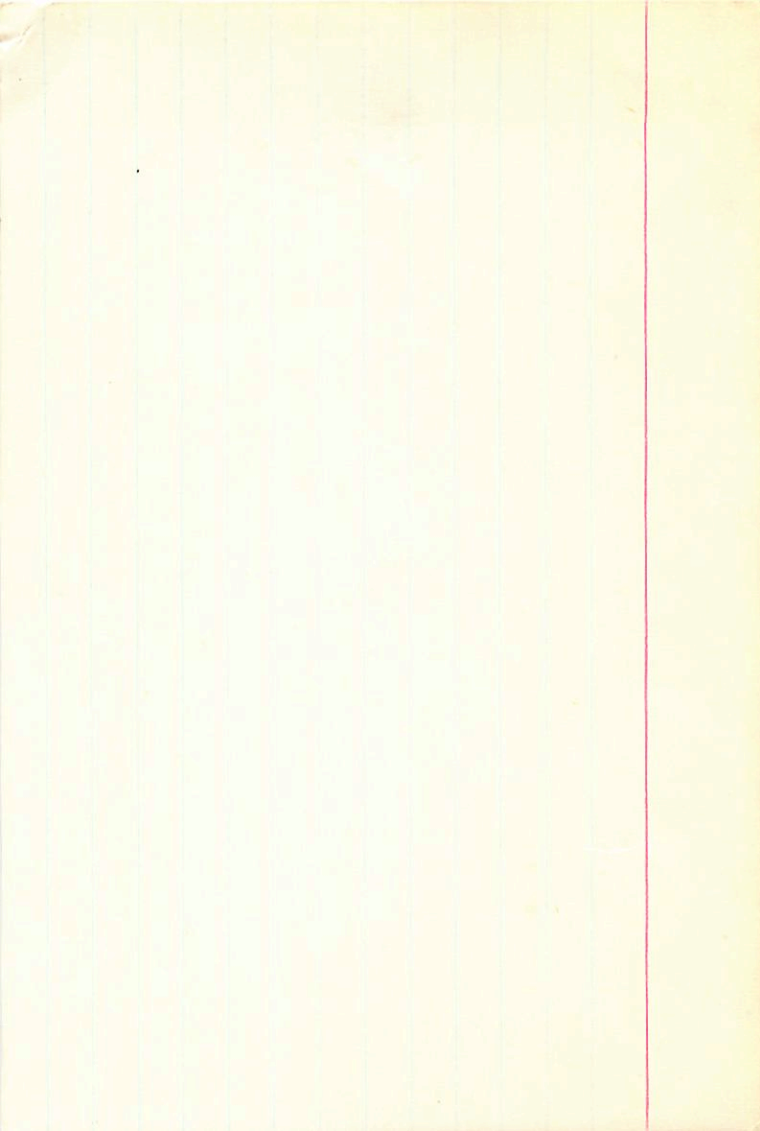
A 92.0 + 1.02 + 0.80 /

8.70 + 0.435 /

B 14.17 + 1.68 - /

12.91 + 1.065 /

25



$$\begin{array}{r} -262.67 \\ +257 \\ \hline -5 \\ +3 \\ \hline -2 \\ \hline -230 \end{array}$$

$$\begin{array}{r} -257 \\ +1 \\ \hline -258 \end{array}$$

$$\begin{array}{r} 1.51 \\ 2.56 \\ 4.51 \\ \hline 8.58 \\ +0.10 \\ \hline 8.68 \end{array}$$

$$\begin{array}{r} -2706 - 1906 \\ +6874 - 4439 \\ -9249 - 7240 \\ \hline -5224 \end{array}$$

$$\begin{array}{r} -245 + 150 \\ +784 + 103 \\ +603 + 294 \\ \hline -192 \end{array}$$

5.04 6.59 10.134 (3)

7.96 + 1.10 + 0.50 + 1.10

+ 9.14 (2)  
 - 0.3 (1)

14 38.14 + 20 118

68-51 29697  
 125192  
 20000

28M (17) 96  
 220000

-9956      4    33.6      -9    29      452

4    38.1 8.3      -9    17.92

45  
0.79  
6

San Fernando -0.114 -0.110

10.3 MO + 8.5

WOR 17

1960.81    2570    2.00    4Wor

$\Delta m = 0.1$

19054

4

38.5

20

09

9.7

9.68

+30.68

2750

9.99 / ml

POW

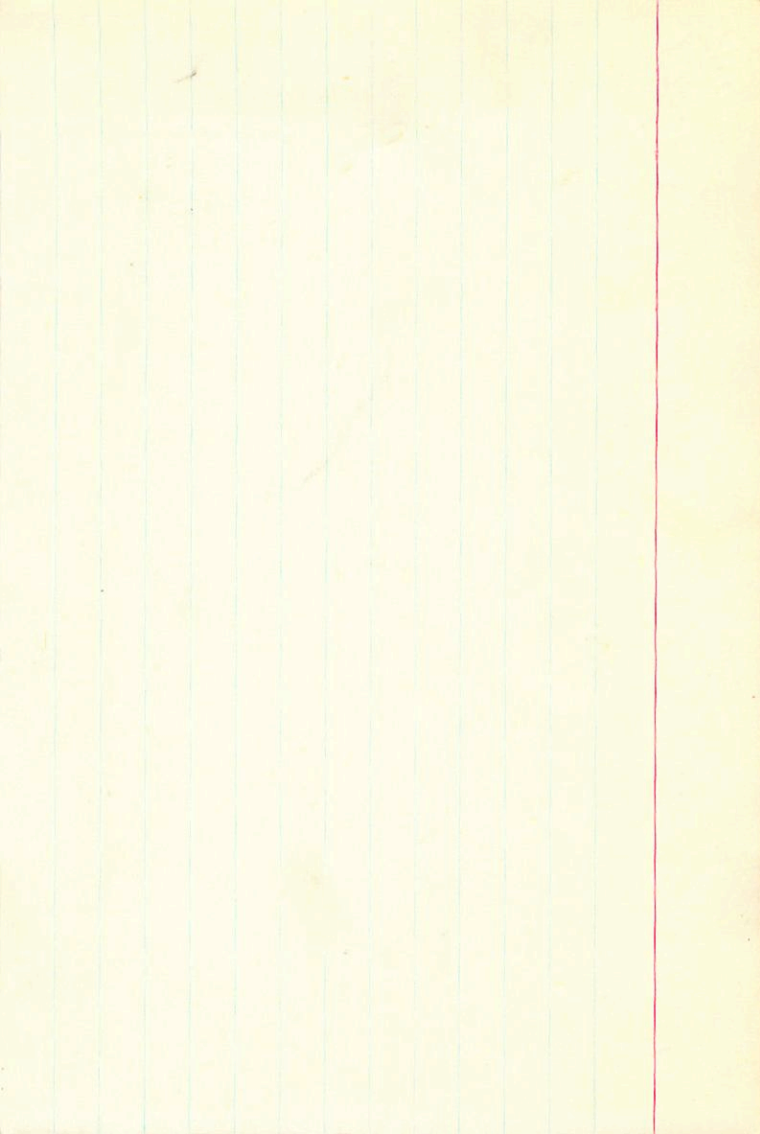
~~GA~~

110-017

+26679

524

322



G-8-5)

4 38.4 +20 48

d113e G -0.8 ± 0.7  
078 A(7) 10

+20° 802

092 A(4)

075540

7.96 +1.10 +0.50 1R

G-C 5699

H029667

0173 257 (A) 1500 1500 1500

-228 -248 Y  
+1 -4 ↓

174 102 135 160 165

HL, PL

-227 -252 GC  
-230 -262 GC

174

165

-230 -257

550  
230

550-230



$$\begin{array}{r} 36 \\ 22.405 \\ \hline 19 \\ \hline .426 \end{array}$$

$$\begin{array}{r} 46 \\ 40.39 \\ \hline 7 \\ \hline 40.32 \end{array}$$

1928



29697.000\*

4.000\*

38.400\*

20.000\*

48.000\*

-0.230\*

-0.257\*

0.500\*

12.589

~~-0.500~~

174

-0.450

0.958

1142

~~0.450~~

-0.282

+17.551-71

4 34.6

+16 14

454

4 40 2.7

+16 24.89

MC-AC -.177-.189

11.3 MO + 8.7

7.12 420 194 544  
2409

+0079 ± 5.4  
+0072

-088 ± 4.0  
-992

+13.6  
Turpin

24836

4 39.9 +18 38

7.1

065

+14.56

2764

7170

328460

5731

56.374

1904.3

+18

37

41.10

19040

+0.22

-112

-104

$\frac{361}{.013}$

405  
45.15

1933.8

1

4639 9280

56.214

1003

1101-090

42.06  
16  
42.22

1928.69

10251

8889-8880

$\frac{22}{.23}$

668

229

50.03  
54.52  
44.50  
43.05  
+14  
43.19

1940.02

34.2

30.2

1814

28.776

229

216

709

4230

34.2

30.2

-0422

27.3489

216

29.9

4230

4230

34.2

30.2

-7.1

15.19

+1.2

112

41.52

41.52

34.2

30.2

8250

56.260

+22

-90

41.52

41.52

34.2

30.2

2494

+22

282

3.0

41.52

41.52

34.2

30.2

82

U :	14.919
q1 (U) :	0.239
q2 (U) :	0.189
q3 (U) :	0.925
q4 :	39.753
RAD. VEL. :	14.999
MODULUS :	49
DISTANCE :	3.999
PM. DEC. :	-99.999
PM. R.A. :	112.000
DEC. :	18.959
R.A. :	4.959

R.A. : 4.650  
DEC. : 18.650  
PM. R.A. : 112.000  
PM. DEC. : -90.000  
DISTANCE : 3.000  
MODULUS : 40  
RAD. VEL. : 14.000

q1 (U) : 0.239  
q2 (U) : 0.189  
q3 (U) : 0.952  
dU : 39.753  
U : 14.916



+10.618      4 35.5      +10 52      455

4 40 44.9      +11 2.78

+24.5 (2)

+101 +10 AG-104

1.21

10070 016 ~~Amber~~ 103 016

Row 379 +.21 0.00

10.31 KS +7.1

10.30 146 9.70 0.44 Wm

AD

4435  
8563

9909 }  
1000 }  
6247 }  
~ 1346 }

+18° 685

316  
Vandy

$\rho = 56.4 d$   $\gamma = 1144$   $\pi$

4 34.5  
4 37.2  
4 40.07.7

+18 26

\*  
453

+18 36.90 +26.0 (14)  
+27.0 (1)

6 20  
A +14.56 3.W d 6.5  
+9.3 3 upm (Var)

McC-AC +1.02 -0.90

A 586 586

9.4 K8 +7.3

South

\* Common prof. mol. with BD +18° 684  
(G.C. 5731, 7.1 mag., 6.5)

797

918 (2/10)

+0.103 -0.088

10-30 9.27 +0.74 (3)

883

787

1.1

9.67 1.13 9.28 0.47 (5)

55  
37

83



1875  
 1876  
 1877  
 1878  
 1879  
 1880  
 1881  
 1882  
 1883  
 1884  
 1885  
 1886  
 1887  
 1888  
 1889  
 1890  
 1891  
 1892  
 1893  
 1894  
 1895  
 1896  
 1897  
 1898  
 1899  
 1900

1901  
 1902  
 1903  
 1904  
 1905

18

453.000\*

4.000\*

40.000\*

18.000\*

37.000\*

0.103\*

-0.088\*

1.100\*

16.596

14.500

0.036

0.953

14.422

-0.629

-0.004

-10.500

0.122

-0.302

-2.362

83

30101

4 42.1 + 5

12

8.9 dg 7 - 19c

PPM

5.0 ANI

-20c

2792

with 0.56

-19.56

