75732 8 49.6 +28 31 dKO +26.6a

5843 26 5.93 40.87 -481 -240 Gc

5.92 5.22 3.62 3.85 (344) 270

5.94 5.23 3.97 3.93 4 alum

3.95 5.46 3.57 4.15 (4)

(1.324)

6573 -90.44 5.384 +34.6 -235

7.586 -4.266 0.010 +0.40 0.013 0.034

1494 -8.993 7.604 -4.374 5.385 0.089

6494 -8.993 7.604 -4.374

-484 -236

5.385 0.006 0.0 0.864 0.32

43.5 43.88 43.9 8.4 8.5 8.5 0.24

739 −674 477879 −481 −240 +26.6 −114 +13 1.000

13

355 084 324 077 1.327 1.533 23.4 −16 +17 088

13 24

−1 +39 +2

−0365

37847 216 −0315 −240±14

1.280 −0370 −276 2308 00.7

11.83

39.127 −366 −236 −235 34.91 −2 095

37.789 3516 25.66 0 +41 0 08

+21 −11

810 −366 −234 25.56 +1 +43 0 075

36653 69.18 18.83 07

−12/5 −11

6 18.72

26.762 66.63 19.44

+26 −5

788 19.39

55Lac 436 360 -0364 -232 Cardinus +27.4 P (29)

75732 8 49.6 +28 31 dKO +26.6a

-0364 -2377

4805

+26.4m(7) 0.0663

GC12244

W5843 3522 5.94 +0.87 -480 -235 +27.8U(3) 0.31

6434 -9062

7655 -4228

+2117 13^h M5 8 5" -583 -232 +27.4

5843

+0.55

+38°1660 11.58 1.30 10.25 (28) -0369 -240 N30

~~-237 +432 Gc~~

+38 -19 -9 .074 -0367±1.7 -240±1.4 Gc → N30 -481 -240 Gc

Cardinus -0364 -232 -481 -240 N

A +23 to +30 (9)

B +19 to +15 (4)

+26 to +31 (5) -0368 -240 N30 T -486 -232

-0367 -239 (049) 72A(16) -554 -232 536 497 432

72M(7)

5 ±6

(3) ~~-4838~~ -484 -236 26.6 74±7

739 -674 477 579 -481 -240 +26.6 -114 +13 -955

355 084 324 077 1.317 1.933 +23.4 -16 +17

-3 +36 +3

$\boxed{+33 -13 -3}$

•1

76143 8 49.9 -66 36 5.4 Fom +42.06

12253
5845

5.32 +42 +1.61 2n 26"

(10)

+0159 +093 N30

+0149±4.2 +093±3.7 Bc → N30

```
   R.A. :     8.800
   DEC. :    28.500
1. R.A. : -553.000
1. DEC. : -232.000
ISTANCE :     0.310
MODULUS :    12
D. VEL. :    27.900

q1 (U) :    -0.634
q2 (U) :     0.137
q3 (U) :     0.761
    dU : 1309.449
     U :    36.345

q1 (V) :    -0.065
q2 (V) :     0.971
q3 (V) :    -0.229
    dV : -918.844
     V :   -16.976

q1 (W) :     0.771
q2 (W) :     0.194
q3 (W) :     0.607
    dW : %-1989.185
```

13

M67 8 50 +12 00 +33

$\pi = 0017$

-0.0067 -0.0056

737 -676 208 938 -0067 -0054 +23 -012 +7 -026

0049 0009 0045 0008 0194 0251 +32.3 -22 +24

-9 +41 -10 0015

+30 -30 -4

001

-3 +49

G47-4 8 503 409 23

7580
+9.2076

862 424 243 382 1594
861 436 225 380 (2)
862 430 234 (381)

335

+4.48

7584 8 504 +17 33 +174 NET

687 +40 +11

0038 044 Carlsberg

$\boxed{054\ 044}$

+7
-44
38
+174

M

-12.872

R.A. :	8.850
DEC. :	17.550
M. R.A. :	-57.000
M. DEC. :	-44.000
ISTANCE :	3.500
MODULUS :	50
AD. VEL. :	17.400
q1 (U) :	-0.642
q2 (U) :	0.281
q3 (U) :	0.714
dU :	106.576
U :	17.756
q1 (V) :	-0.056
q2 (V) :	0.911
q3 (V) :	-0.410
dV :	-175.435
V :	-15.921
q1 (W) :	0.765
q2 (W) :	0.303
q3 (W) :	0.568
dW :	-260.234
W :	-3.153

14

75 896 6.14 036 155 1.200 2874

3528 B=+027 8 50.8 +35 44 A2 +22 ←

Gu2277 v0 6.02
-0.08
6.1

6.02 +0.04 +0.11 A3III

-0018±93 -0252 6.9

47102 18.4 -0020 -015 42.76 16.6 -022 -0256

57
159

-0021 -021 .54
-020 70

-0021 43.

DAO7 !
ROS 135 /

-00201 -020

,47,033
+30
063

66.15

42.43
+5
42.48

-00222 -0177

-0270 -018

-027-015

47.012
+28
040

74.22

43.02
-12
42.50

7016 -8473
7126 -5311

0308
-0016
-1.7
0046
6.70

47.058
+17
21
076

58.19

42.74
+14
42.88

+32.4

57 Lac 8 51.2 +30 46 gG7 -60.18 w(4)

75959

GC12289

W5853

AOS7071

Δm = 0.20 Muller

HR3502

6.3 } 1.5
6.5 }

w(+0.5, +0.7)

G7 K1

+043 ±15 -024 ±13 GC

-73 -6 -25 .005

keep working

+0033 ±1.5 -024±1.3
+0033 -027

11.932 1904.6 +3046 12.26 1903.0
-150 1.13
.782 13.39

35.307 - 28.42 1941.39
-06.542 -15.79
11.899 12.63
-.886 -.19
+.17 12.44
.905 -.8
12.34
+123 - 1.03

V Pyx 8 51.4 -34 38 (152)

E m-m

76339 9.27 -0.06 -0.235 (2) 40 +0.05 8.80

-0.0012 -0.010 Cur + Tab
- 1 - 1
-0013 -011
-016 -011

E = +05

V Pyx 7.8 +1.40 +1.4
6.8 +0.50

9.7

15

0.000*

8.090*
51.400*
-34.000*
-38.000*
-0.016*
-0.011*
9.700*
870.964
0.000

0.010
0.214

9.045

-0.000
-0.971

-7.621

15

-0.091
0.110

-79.386

3549 9 51.7 -56 28 A0

4/36.20

Nowl

-27.86 36.45

11.61 045

6.03 -8 150 966 2877 (2)

5g

~~152~~

148 968

296

1264

8797 8087

5581 5446

+0.9

L8 m

SB 25p

3551 8 52.2 -47 20 Am

76360 -32 (4)

12314 Am=00 5.3 +225 (+04) C

5.31 168 179 818 2.760 0,9,9,6,5 (2)

76 -1 504 (224) -784 +2.6 +16.5

174 220 666

-0012 -030 Stny

9964 0614

-0746 -9841

-0009 -027

-0090

-004 -024

3531 8 52.4 +64 47 5.55 gQ3

-025 -085 GL
±1
=084
+3c

16

57mc +0012 ± 3.4 -018 ± 3.0

75972 8 52.6 +65 43 7.4 gG6 -33.76

12323

5863

34.265 1891.7 +65 43 5.17 1887.8

070 1.12

.195

34.300

46

-16 +5 10.65

A13-A15e

T Rya 8 53.2 -8 57 7.2-13.2 Vis

-0012 +002 Mc

-018 -3.0 208.3

~~-008 +003~~

-0012 ±4 +001 ±4

-018 600

7 -3 ~~-8~~ L 2W

662

436 1

565

176

65

612 415

386

-645	-508	+0550	+35.5	-1.5	= +34
-051	-774	+0043	+2.5	+2.3	= +5
762	378	-0650	-42.0	-1.1	= -43

E +065

T Rya 8.0 +139 +0.65 -3.8 +34 +5 -43 -18 -3.0 288°

6.5 +139 ~~9.05~~ 9.05 +6 0 -6 0 +22°

E m-M

T Ry	236.8 +224						
75233	230.4 +242	5.30	-09	-0.34	B9	+04	5.3
	235 +25	5.54	-06	-0.16	B8	+03	5.0
						+06	9.5

0.460

8.000*
53.200*
-8.000*
-57.000*
-0.016*
0.005*
10.650*
1348.963
-3.000

0.063
0.507

82.904

0.019
-0.773

27.613

-0.045
0.381

-62.146

AOS 7095

+0058 ±3.2 −106 ±2.8
+0058 −103

SPyy 8 53.4 −27 29 +4.66
+6.2

HR3556 4.89 +0.13 +1.56 26"

+077 −106 ±

7648 3
1234 3
5875

22.803 1903.7 −27 29 18.81 1899.2
−264
1534

+5.35
13.43

33.6

22.738
+4
742

728
+194

18.512
4.175
22.687
+696
+17
713

17.63 1939.64
+30
17.63

463
37.3
38.1

34.19 1934.99
−42.25
1644
−44
17.28
+14
17.09

17.36
−3.93

727 -686 -462987 +077 -107 +4.6 049 -2.1 -450

-056 -036 -053 -034 -104 -422 +4.1 -2.8 +3.0 02

-8.0 -18.1 -24.6

$\boxed{-27.7 \ -14.1 \ -1.6}$

-6.3 -11.1 -17.1 03

$\boxed{-18.3 \ -10.9 \ -0.7}$

-036 013 Overlap

7631 8 -046 -013 8 53.3 +26 34 dF2 +26.56

+26 0 1869 8.2

W5874 ~~+053 -026~~

-044 -015 -055 ±6 -028 ±5 Rig

-055 -025

-056 -024 Putting → 66

-051 -022

-044 -015

-050 -022

-053 -021

54 5.1Y 105 pm.

-050 -019

56

-052 -028

-1 -4

-5.1 -3.2

-2

-055 -027

-644 +170 +746

-053 +963 -265

+763 +210 +611

+1674	-0218
+0138	-1233
-1989	-0264

+1461
-1095
-2258

+153	+20.0
-11.4	-7.1
-23.6	+16.4

+35.3
-18.5
-7.2

6549	-9d.36
7557	-3834

727 - 686 + 448 894 - 055 - 025 + 26.8 - 011 + 12 - 104

040 008 038 007 156 218 + 27.0 - 16 + 17

01

0 + 39 + 2

+4 +44 -1 008

$\boxed{+39 -18 -10}$

+6 +49 -3 007

$\boxed{+42 -20 -14}$

18

25 7 4 8 6 10

0006

76700 8 53.3 -66 37 G8 V +366 4C

FD 1162

8.13 +0.75 (1.86)

e_0 326

Sg

8.15 456 250 +31 2

-286 +101

+095 CP

-286 +100 CP

8.900
26.600
-59.000
-25.000
5.120
105.48
26.500 110.05
-0.640

19

8.900
-66.600
-720.000
100.000
2.500
32
36.600

-0.649
0.731
-0.211
1226.500
31.075

-0.047
-0.315
-0.948
-85.210
97.384

HR3570 8 53.8 -54 46 -2 2

407653

+033 -087 GC

+031 -090 GC+

309 167 402 2.644 5036-090

309 158 ~~458~~

426

031 -090

C_0 414

+4.10

309 ~~TG2~~

34

726 -686 .818 575 +031 -040 -2 074 2 -246

-022 -054 -021 -051 137 -355 -1.1 +1 -1 625

+6 -15 -8

-16 +4 -7

03

+5 -13 -6

-14 +5 -6

02

+7.8 -18.7 -10

-20 +5 -8

04

+4 -10 -4

-11 +3 -3

GL12434 HD76943

10 UMa 8 57.2 +42 11 Bul 5-1

+42 0 1956

s -.0390 -.254
+26.4 a

Sgg ~ Ap.J.Supp. 8, 125, 1963
Ap.J. 156, 241, 1969

A 4.14 +0.37
B 5.97 +0.65

P = 22.2
q = 0.58

Basic
I.O. 35 40 1955

070A(16)	π	u	v	w	m_1*	m_2	$M_V(1)$	$M_V(2)$
069S(20)	066	+41	-17	-6	0.90	0.48	+3.25	+5.05

76572 8 54.9 +30 26 dF3 +8.3 b

HR3563 +7.1 (1)

GC12388 DM=0 057 019 GC

Line

92
241
16

.303 .135 .504 (2) SPC 2.636 (3)

319 C+

[m] 189 +40

[c] 443 10>
143

703
35
45

-652	120	749	-1100 +0108	-15.92	+6.2
-044	980	-195	-0115 +0882	+0767	-1.6
757	161	630	+1973 +0145	+2118	+5.2

1830

1058-1019 BC
→

+21° 1947 5 55.0 +20 39 dF2 +36.0 1

-0021 063 Carlsberg -020 -064 Y

-036 -063

G9-36 8 55.0 +24 ~~0~~/0 -47. Sm

~~-44.7~~ (1)

11.96 +57 -15

565

+25

6.25

.345 131°

$1.322 = \frac{.1190 - \mu_2}{\mu_4}$

+.260 -.225

±3

-0025 -026 fkt

-037

-034 -023

5.05 +1.75

467

2.42

54

8.2

-037 6 -026 6 LB 5 6 4

+1 -036 +3 -026

RT Cnc 8 55.6 +11 02.5 M5 III

-6 14

nowdoin

6 = +33°

8.3 - 9.4 90±

LB

m-M 7.33 +44 -47 -32 5 Kev -0.037 6 p = +360

292pc -0.026 6

E = +03

7.3 4.7 4.64 +1.68 -037 -024 -001

+1.56 +1.70 +1.15 Mo4

216

3.6 / 2.6 / 4.16 / 2.1 / 6.0

8.1

-038 -026

Not 5 Kev

RT Cnc 7.2 ~~7.3~~ 5 +1.55 +1.15 -4.85 +54 -40 -58 -37 +36.0 100± E +03

4.9 +1.70 8.15 +7 -10 -18 -26 +33°

0.000*

8.000*
55.600*
11.000*
2.000*
-0.036*
-0.023*
8.100*
416.869
36.000

0.067
0.664

51.737

-0.098
-0.511

-59.462

-0.174
0.545

-52.755

20

20

```
     0.000*

     8.000*
    55.600*
    11.000*
     2.500*
    -0.038*
    -0.026*
     8.100*
   416.869
    56.000

     0.073
     0.664

    54.326

    -0.099
    -3.511

   -59.292

    -0.181
     0.545

   -55.736
```

0.000*

8.000*
55.600*
11.000*
2.500*
-0.036*
-0.023*
8.200*
436.516
36.000

0.072
0.664

55.389

-0.086
-0.511

-56.068

-0.168
0.545

-53.911

26

-0035 ± 6.0 -028 ± 4.3 SR (9.85)

RT Lac 8 55.6 +11 0T 033 7.32 gM5

76734
+11 0 1954

+36 c

M4 III

23.26 1911.8
107

33.001 1513.8
127
.128

-008 ± 7 -032 ± 6
2
-006

24.33

47
184
286

BL

-0.037 -0.026

292 mo

33.085
34
71

24.24
-
54.11

1929.6

1545
-40
-50

33.070
26
098

m-M
7.33

+44 +7/100
-47 -10/100
-32 -18/100

23.36
4
23.40

1940.11

+24.0
-18.4
+19.5

-652	363	666	+1143	-0447	+0696
-044	858	-512	+0027	-1057	-0980
+757	363	543	-1276	-0447	-1723

-0023

-026

Cn 50
2.1
175
5.0
462
224
2.157

-0022 ± 5.9 -012 ± 5.7
-0018 -011

76757 8 55.6 +01 44 6.5 A0 +26.26

12398
5895

-0020 -011
-0021

33.236 1896.7 +1 44 8.53 1895.8
117 65
.353 9.18

-031

33.265 8.56 1893.8
21 19
.286 8.75
-067 -43

76539 8 527 +76 36 dG-4 +1X8 8

+76°335 7.8

-056-184GG
-040 -211 6AZ
-050 -200

707-707 873 232 -050 -200 +14.5 -197 +44 -215

035 140 035 140

0.

Pkma
3576 HR

76827
12447
5-918

58.1 +67 50

4.71 +1.56

80

-0031 +015 N30
-0034 ±1.4 +015 ± 1.3
GC → N30

+8 +5 -4 .011
+10 +9 -9 .007

gm3 +4.6a
-026 +016 FK3
-020 +014 GC
-015 +015 N30
~~-014~~ ~~+015~~
-021 +015

710 700 926 378 -014 +015 +4.6 014 +4 028

014 +010, 014 +010 019 +019 4.5 -3 +3 011

+7 +5 +6

$\boxed{+8 \quad +5 \quad -4}$

+13 +6 +8 007

$\boxed{+10 \quad +9 \quad -9}$

TT Lyn 8 59.8 +44 44

-63

-085-051

21

0.000+

000+

7H408 9 00.2 +33 05 dFG

W5941 7.03 +0.50 -0.04 F7V

δ=07

-406 -00-

707 -707 546 838 -406 -002 +20.5 -001 +39 -009

286 001 286 001 1.345 1.360 -41 +41 028

+7 +90 +39

$\boxed{+98 -8 -3}$

-03 +79 +39 035

$\boxed{+88 -8 +8}$

1 79 18
3 -40 29
-6 -15 18

0 70 18
-1 -36 29
2 -12 18

77586 9 01.4 +29 25 M ##

6.28 +1.065 (2)

5.91
14
45
4.35
9.8

+88.2 b

-024 -019 Yale
+1 -4
-023 -023 GL

-0253 -0276

$\boxed{-025 -019}$

22

77586.000*

9.000*
1.400*
29.000*
28.000*
-0.024*
-0.019*
8.850*
588.844
88.200

0.063
0.730

101.596

-0.085
-0.214

-68.960

-0.099
0.648

-1.224

−0034±8.0 +025±7.1

77907 9 01.6 −53 21 6.5 B9 −7.06

12528

5946

34.735 1901.0 −53 21 4.51 1946.8

167

.902

−1.33

5,84

49.558

45.295

9.82

− 55.42 1927.20

34853

+3

856

−3

853

1.24

812

−090

5.44

−56

6,00

− 10

6.10

6.12

− .29

34.76

+01.1

.771

5.7

− 46

6,16

1938.1

1.281 978 320 MF 4.44 427

77996 270 974 1 9 3.3 +5 18 5.4 9.12 424.56

12564
59.59 1.263 967

4.99 256603 311
770 576 335

3#

07 1256 962

-0012 -012 N30

3613 807

-0012 -010 ±2.0 GL → N30

-0012 ±2.0 -010 ±2.0

499 256 603 311

1.749

9.05
+53
-18
-10
5.35
+247

20.507 6.2 35.66 6.5
48 44
555 36 10

20.463 65.74 35.40
24 -14
492 35.26

1.256 962
2.50 041

-0012 -0135

-00124 -0133

Fid5 Suppl

20.485 70.5 35.20
-5
498 .12

1.261 965 314

4.88
15 1.02
.60

-0193

F018-010

45.913 70.5 59.47
31.602
2051 -23.46
3607
14

20.485 38.22 35.55
+4
507 35.59

298-4
025 395 1273 973 247 87-17 400
517 35.55 -17 35.65

98

23

R.A. :	9.850
DEC. :	3.300
PM. R.A. :	-18.000
PM. DEC. :	-10.000
DISTANCE :	3.350
MODULUS :	124.768
RAD. VEL. :	
	-0.672
q1 (U) :	0.430
q2 (U) :	0.603
q3 (U) :	36.716
dU :	19.215
U :	
	-0.021
q1 (V) :	0.803
q2 (V) :	-0.326
q3 (V) :	-36.259
dV :	-18.978

R.A. :	9.050
DEC. :	5.300
PM. R.A. :	-18.000
PM. DEC. :	-10.000
DISTANCE :	5.350
MODULUS :	117.49
RAD. VEL. :	24.700
q1 (U) :	-0.672
q2 (U) :	0.430
q3 (U) :	0.603
dU :	36.716
U :	19.215
q1 (V) :	-0.021
q2 (V) :	0.803
q3 (V) :	-0.596
dV :	-36.259
V :	-18.970

W5966 9 04.0 +67 05 5.3 g K5 +15 c

HR3609 474 474 +13.4 (?)

HD77800 17 41

18 47

331 46

474 184 3

605 189

-017 ~~-042~~

-0029 -041 0c

-017

126

-677	-322	662	+0542	+0610	+11.52 +14.4 +9.9
-015	905	425	+0012	-1710	-16.48 -21.2 +6.3
736	-277	618	-0590	+0525	-00.65 -0.7 +9.2

-0829 ±20 ~~±~~ 042 ±1.7

-0095 -040

1.872 94.7

160

2.082

3311

235

3546

1.821 6.0081 82.33

21

-13

857

20

-00305 -0435

-00321 -0427

-0187

-021 -040

ADS7187 -0120 ±3.4 +003 ±2.4 +3003 Ⓑ

-0117 -001

78175 9 04.6 +23 11 6.8 dF3 +29.1 b

12583 HR3617 Δm=0.39 7" 7.2 dF3 +32.3 b

5571

30.7

34.192 1900.4 +23 10 58.03 1896.9

595 -16

.787 57.87

34.365 57.53 1935.6

13 28

378 827 57.81

414 31.9 67.66

.373

7.625 157.81 1929.06 32.3

26.845 -59.15

34.470 58.66 57.52 35.4

-51 -1.08 -05

.419 57.58

+30 +25

449 57.83

24

9.100
23.200
-178.000
0.000
4.000
63
30.700

-0.679
0.227
0.698
526.707
54.662

-0.013
0.947
-0.320
9.700
-9.215

0.734
0.226
0.641
-569.105
-16.243

24

15 UMa 9 05.4 +51 48 Am -0.1 G

3619 4.46 10.2J +.11 -134 -042 G
-140 -039 F

039

692 -722 786 618 -134 -042 -0.1 -033 0 -123

093 023 097 024 327 569 0 0 0 034

+10 +17 -4

+14 -6 -14

039

+8 +15 -3

+13 -5 -10

78233 9 05.4 +51 00 8.1 dG6 +21.1 6

+51°.1985

5982

s

−0199±1 −.377±1 y

−0195 −384 Gn PZT

154 384

XPyy

78541 9 05.9 -25 39 g mo +44.78L(4)

GC12614

WS984

Y218.3

-25°6895

HR3628

4.5-10.12"

4.59 +1.60

±2.4 ±2.4

+039 +004

+006±5 +012±8 Y

8±12

14626 B2IIe

3642 9 05.2 -70 20 B2II

7876Y 4.70-16-80 C

12602 -054 +070 +150 3½ 2.54 3

~4.24 9.89

+004 -007 ±7 Variable

AD57202 10" 2" +0029 ± 2.4 +004 ± 2.7
+0022 GOV

K Pyx 5 05.9 -25 39 SMO -4.77

HR3625 ~~4.66 +1.62~~ Cape

78541
12614
5984

4.63 +1.58 (2.58) +039 +004 GC

51.123 1909.1 -25 39 20.69 1908.4
-119 -17
.004 20.86

-22 +43 -1 012
-29 +43 +8 007

45.267
5.760
51.027
+9
036
+17
.043
51.087
+2
.089

1.32
066
+062

27.8

18.78
41.62
20.40
-81
21.21
+14
.02
21.00
+25
20.7

1934.74

20.87
00

1934.0

13.74
36.9
28.5

688 -725 -433 502 +039 +004 -44.7 -002 +19 017

-027 001 -028 001 -132 -235 -40.3 +29 -28 012

+18 -38 +20

-22 +43 -1

+10 -46 +22 007

-29 +43 +8

3531.000*

8.000*
52.400*
64.000*
47.000*
-0.025*
0.085*
5.000*
100.000
3.000

-0.056
0.689

-3.545

0.377
0.390

38.826

-0.177
0.610

-15.896

16

57mc +0012 ±3.4 -018 ±3.0

75972 8 52.6 +65 43 7.4 gG6 -33.78

12323

5863

34.265 1891.7 +65 43 5.17 1887.8

070

.195

1.12

6.29

34.300

46

344

6.07 1945.04

-7

6.00

0006

76700 8 53.3 -66 37 F8V +366 4C

FD1162

ℓ_0 326

Sg

8.13 +0.75 (1.86)

8.15 456 250 431 2

-286 +101

+095 CP

-286 +100 CP

19