HO 85.1

7086 18 46.7 +19 16 A2 E

4521
8920
-4155

M4262

25786

481
23285

5.75

011 169 1.025 2.914 J C
007 168 1029 2.902 et al
009 168 1027 2.908 (7)

170
340
1025
1365
1382

13 = 2
16 = 2

158

cos A sin A
4531 8915
cos D sin D
-4164 4002

.0274

Bul 51

+013 -021
+548

1.875
+19.25
+21.5
-21
4.9
+5.9

+1.3
4.45

90

7086.000*

18.000*
46.700*
19.000*
16.000*
0.013*
-0.021*
4.450*
77.625
5.900

7080 18 46.4 +49 01

174366 6.35

25776 29

041 152 989 2.886 et al

-179

-003+020

159
318
961
1299
1375

264
044=a
022=7

176

+1.4
4.95

[illegible]

56 56.228 29 56.2
-37 -6

7091 18 47.2 +25 00

174369 17 107.2 6.55

25810

-9753
2207
-5157

(9)

038 191 588 2.606 et al

~~Gd~~ SB

-003-013

-25.4

198
396
950
~~176~~
13
1446

202
580

818
053=a
002=7

34

182

+1.8
4.75

18.8
+25
+4.5
-72
485
-25.4

8010-113

7004-0120

G2

-.0209

-.005

-.0002±4.7

11.060 95.1

011

.071

11.012 25.05

-7

11.018

-53

-.005

-.092

-.007

-.017±5.9

18.00 95.3

53

18.53

18.68 44.6

-08

18.60

92

10.000
25.000
4.500
-12.000
4.850
93
-25.900

0.247
0.793
-0.557
-40.339
10.655

0.388
0.445
0.807
-17.826
-22.558

-0.888
0.415
0.198
-40.793
-8.935

7098 18 47.9 131 34 89.5

+07 +02 -10

6.64+008 123 1083 2.829 40

125 1081

250

1337

11.2

-2.7

188

+31.6

-006 -012

-002 -013

7.1

-2.7

$n_v = +0.1$

r_0 6.4

6.3

93

-0007 ± 9.0 -016 ± 9.5

-0007 001

50 414 1907.5 13.37 1908.2

30 67

444 1404

-0007 -006

-00056 -002

405 14.36 87.55

4 -24

-0077

404 -003.< -003 1410

003 406

93

18.800
31.600
-2.500
-13.000
7.100
263
-2.700

0.247
0.852
-0.462
-54.985
-13.215

0.388
0.350
0.853
-25.467
-9.001

-0.888
0.390
0.244
-15.067
-4.623

16.800
31.600
-4.000
-3.000
7.100
263
-2.700

0.247
0.852
-0.462
-16.102
-2.988

0.388
0.350
0.853
-11.244
-5.259

-0.888
0.390
0.244
8.792
1.653

112 Her B9 II-III Sp. B. P = 6.4

174933 18 50.1 +21 22 5.3 A0 -19.8 a

25895

11332 -0001 27 000 28 N30 -5.9

7113 2NP -0008 ± 23 -008 ± 1.9 5.47 6.3 -0.27 14

+254	+757	-603	-0169 -0144	-0313	-6.2	+11.9	+5.7
+384	+492	+780	-0255 -0093	-0348	-6.9	-15.4	-22.3
-888	+430	+165	+0590 -0082	+0508	+10.1	-3.0	-6.8

18.9
+21.4
-9.5
-1
5.5
-15.8

P = 6.4

140

-0011 000 N30

-0009

-0126

-009 -001

-4.9 -6.2 +11.9 = +7
-5.5 -6.9 -15.4 -21
+8.1 +10.1 -3.3 +5

7.10
5.27

18.800 94
21.400
-9.500
-1.000
0.750 5.500
125.40
-19.800

0.247
0.757
-0.605
+10 -13.941
10.232

0.388
0.495

7118 Si 2.34 1.12 110.5

175132 18 50.5 +41 19

29 52.6

1.87

6.28 -038 124 886 2.732 G

-220

+28 14 113 844

224

10 18 53.5 118 1070

-0019 -004 G

10

1060

-0.75 Mv 4.1

-00180 -0037 -.10

-23.0

0202

-016-004 7.4 0.00 -035 118 842 2.732

112 849

7.0

-0016236 -004 ± 2.9

30.765 1892.5 16.50 1892.3

9/5

7118.000*

18.000*
50.500*
41.000*
19.000*
-0.016*
-0.004*
7.400*
1323 251 301.995
-23.000

-0.037
-0.309

+2 -2 -3.993

-0.033
0.903

-25 -29 -30.650

0.061
0.299

+4 11.445

7134 18 54.5 -53 00 B9 III

175570 4.87 -05 (1.42) L

26012

(+02)

4.87 -017 1084 1086 2.817 (2) Sgr

1087

(10)

10, -9, +1

+00140 -0005 P184

1088

282

1320

+00140 -002 N30 ±3.0

-5 -6

-9 -5

-5 -6

-31 -22

+20

+14

M_V = 0.00

V0 4.8

4.4

+0004 ±5.5 −0004 ±7.5

0 014

19.05 1595.1

−20

18.95

0.554 1502.1

−019

.580

00.955

024

.550

19.18 1534.5

25

19.43

.45

0

HR1023

2U15 3 21.0 +4 4 6.38 +87 +51

+3 (Mag 15)

-007 -005 A+124

+4 -4 GC → F124

-003 +014

-005 +002

-004 000

570

525

3.27

Solar

7145 19 574 -20 43 AO I

125687 125043 1.206 2689

1.17

130 -010

140 -023

160 -048

18.4

-20.7

+1.5

-13

7.7

+1.4

96

10.900
-20.700
1.500
-13.000
7.700
347
1.900
0.269
0.158
-0.950
-7.940
-4.558
0.374
0.892
0.254
-52.476
-17.713
-0.888
0.424
-0.181
-32.009
-11.442

MNS2 771
DAO 7,11 19 95.1
7143 19.71 18 53.8 ~1 52

92943

2.92
073
6.73

6.22

002 110 740 2.740
111 740
222
962

18.9
-1.9
-2
-24
6.25
+26

+003-018

8

18.9
-1.9
+3
-18
6.25
+27

$\cos 2 \quad \sin 2$
7281 6855
$\cos\theta \quad \sin\theta$
-8725 4887

017
006

6.4

+0.10
6.00
5.9

6789 4853
7342 -8744

7088 18 47.8 -22 14 A7 III

241 16.9 708 2847

-0014 + 5.0 -018 52.9

46.7 90.7 0000 -017

83 0000 -023

.825 57.13 9.32

1.00

56.05

0000 -020

46.803 0001 -018 57.03 59.32

+20 +0015 -17

46.823 $\boxed{+003\ -015}$ 57.20

46.823 57.73 02.00

-5

.814 -16

57.91

FP

97

18.900
-1.900
-2.000
-24.000
6.250
178
26.000

0.269
0.456
-0.849
-54.383
-31.734

0.374
0.763
0.528
-90.287
-2.329

-0.888
0.459
-0.035
-43.841
-8.696

18.900
-1.900
3.000
-18.000
6.250
178
27.000

0.269
0.456
-0.849
-35.055
-29.145

0.374
0.763
0.528
-59.742
3.630

-0.888
0.459
-0.035
-51.803
-10.146

18595.

7147 Si 295 52.6
18 53.8 +17 56

~~157~~

17 52.6 2809 -25.0

17574 13 -010 +099 +585 2.701 G

+097 587

194 781

~~-028 126 594 2.709~~ 2

~~121 600~~ 2825

242 121

842

±5.5

40

+00025 -0150 GG+

-010 +099 585 2701 G

097 587 2809 265

194 108 76

781

+00046 -0150

-10

30

+0066

80

Dub

+010-016

±7.3 -022 ±8.0

+0004
+0001

-016

51.055 1855.5

4463 1502.5

-020

1.04

51.078

+0002 5-0150

4547

51.085

4506 1534.3

— 5

+10

51.080

4514

.002

-.51

98

7147.000*

18.000*
53.800*
17.000*
56.000*
0.010*
-0.016*
8.000*
71 398.107
265 -25.000

-0.042
-0.644

45 -0.479

-0.023
0.755

-25 -28.061

-0.076
0.124

-23 -33.242

7155   18 55.3   -24 57   B8 III

169

(+1.4)   6.62+08 1.42

33+

6.62 +107 049   .942
~~926~~ 2.749 ② 5552
088   928
160
1083

~~No Vel~~

$m_v = -0.8$

vo 6.05
6.85

087042 912 2752

Geser

7158 Ag 18 54.8 +~~23~~ 26

175864 6.56 60 -26 C

+051 068 856 2.703 Cr

093 846

166

1012

0 0

-0003 -014 N30

Unclear m_V -1.55

64 Sa

7158 18 54.8 +2 28 B 9 115

175869 1070 6.56 00 -26 6 +12 36

1030

051 068 856 2783

077 846

154

1000

-0093 -014

-0002 -011

-0050

-001 012

-10

-126

-0044

-002 015

6.2

-1.55

7.75

5.58 052 052 876 2.711

068 766

136

1022

48.9

+2.5

-1

-12

6.5

-10

45.65 1403.0 -0006 +45 -0002 -014 +47 -014 5.01 1402.6

25

69 674

66

567

45.664

4.95 6.85

-25

4.70

99

7158.000*

18.000*
54.800*
2.000*
20.000*
-0.002*
-0.015*
7.750*
350 354.813 337.5
-10.000

-0.039
-0.810

-6 -5.900

-0.055
0.586

-25 -25.274

-0.024
-0.003

-4 -8.612

G9

18.900
2.500
-1.000
-12.000
6.500
-10.000

S.G

0.269
6.519
-0.811
-30.818
1.962

+4

Δm = 0.5
0.2

7166 18 56.6 −12 55 85

(+14) 5.53-04 1.29

025 062 852 2703
070 377
140
517

Varkel

−0.95 Δm max
0

Vr 5.10
6.05
.65
6.7

7171 (+081) 18 56.6 +19 43 B7 III -IV

176801

6.58 -04 -43 +12 36

-0005 -0075 022 077 601 2.699 6.15

-0003 -0035 084 597

-1.0 168

765 -1.45

7.6

-0042

-001 -005

-0001 ±6.9 -008 ±7.1

34.547 1893.0 -0009 -007

29.77 1895.7

006

553

43

30.20

34.511

-5

34.516

-037

29.83 1934.3

+10

29.93

-27

100

100

7171.000*

18.000*
56.600*
19.000*
43.000*
-0.001*
-0.005*
7.600*
331.131
-1.000

-0.019
-0.618

-5.588

-0.014
0.776

-5.379

-0.006
0.128

-2.213

7174 18 56.3 +38 12 B7 $\overline{IV}$

176318 17 52.4

Sp. B. 2.9 d

5.89 -18 -52

0 B = 0

5.89 -030 102 579 2.758

093 585

$\frac{186}{~~771~~}$

771

-0.30

Mv

-0004 -0036

-0003 +001 FIRY -31.1

~~-31.0~~

-28.

-0026

$\boxed{+001\ -001}$

$m_V = -0.31$

V_U 5.75

6.2

-0004 ± 5.2 -003 ± 3.6

19.151 1901.5 50.59 1904.7

101

101

7174.000*

18.000*
56.300*
38.000*
12.000*
0.001*
-0.001*
6.200*
173.780 10
~~31.000~~
-78.00
-0.003
-0.353
1059
+11 ~~10.449~~

0.001
0.898

-25 -27.730

-0.006
0.262

-10 -9.177

7177 18 58.6 -42 859 A1

176425

26126

6.21 00 (00) L

-004 144 1016 2856

142 1017

+0029 -015 stay 6.25 -013 142 1026 2881 13,12,2,

+00263 -013

144

②

-12.8 4 lope

292

1023

1315

19

-42

+37.5

-16

5.35

12.8

+0.8

+0293

+028 -016

102

102

19.000
-42.000
37.500
-16.000
5.350
117
-12.800

0.291
-0.193
-0.937
53.034
18.227

0.359
0.930
-0.080
-23.039
-1.680

-0.887
0.313
-0.340
-140.916
-12.209

n 4C

176425 18 58.6 -41 59 AOV -12.8±N

FD1030

6.21 0.00 (1.49)