16.222*

11.000*
5.800*
16.000*
2.000*
0.158*
-0.382*
3.000*
39.811
106.800

-1.419
0.267

-27.923

-1.347
-0.356

-91.647

-0.112
0.895

91.173

A 56-16

9 6 6 9 2 413 11 05.8 +16 02 +8.3

+16 > 2216

V 27 5 -374

+0100

+154 -324

.027 ±12 VV

811 7B

+184 -321 VV (π)

+158 -372 AG104

+167 -374 Taylor

+168 -360 +106.8

2.4

720 161

639 628 284

+157

-374

1056

7.70

65

8.15

+35

+104.4 VW

106.8

+105.6

96692.000*

11.000*
5.800*
16.000*
2.000*
0.168*
-0.360*
2.400*
6287 30.200
106.800

-1.415
0.267

-60 -14.179

-1.240
-0.356

-116 -75.481

-0.070
0.895

91 93.498

+31° 2240 | 11 | 3.1 | +31 | 15 | 600

Y 2600 | 11 | 5.6 8.3 15.8 | +31 +30 | 0 44.07

AB·35°(Y)
ADS 8083; d = 34" binary
Δm = 2 mag.
83M(10)

HD 97101
The McCormick rel parallax is the mean for the 2 components.

-15.4

A −14.0 ± 4W dm1
B −28.1 ± 5W dm2
−16.4

8.31 Mop +8.3
11.2; M2 +9.3
+0".078

7 15
6 3 5
6 2

G.C. 15366 +.578 −.210

1844.31	264.7	36.23	10 E
1867.23	264.4	36.03	3 Δ
1881.05	264.3	36.03	2 OE
1898.56	264.1	35.70	3 1+W
1909.90	264.4	35.51	11
1918.88	264.4	35.42	6

+0.587 −0.204

0.1
−14.0

−16.0

600.000*

11.000*
8.300*
30.000*
44.000*
0.587*
-0.204*
0.100*
10.471
~~14.000~~
-16.0

-2.746
0.359

-33.779

0.009
-0.119

1.755

30

1.065
0.926

-1.80

180
NW

97101 11 08.4 +30 43 dm -14.0 fw(4)
qm2 -28.1 fw(5)

c15366
w6866(70)

8.56 +1.22
10.22 +1.46

12600
131°2240
408883
35"

067 (5)

±5 ±5
+578 -210 GC

0.588-208
w596-201

-40 +1 -1 .078

82m(10)
64b(4)

78±8

+0448 ± 4.9 −210 ± 4.5
+0462 −204

224 −975 511 860 +578 −210 −14.0 −107 −7 −858

−129 024 −564 104 −1.104 −2.555 −12.0 +12 −3

−7 −48 −22 0.525

20.481 1896.1 +30 43 12.99 1895.9

−53 +2 +4

−2.415

18.066

11.36

24.35

19.628

17.5 1930.1

638

17.37

+0455 −207

−205

97100 11 083 +30 43 mg 65 -34.3 fw(5)

AOS 9083C
W4867
op. 4. t 9083AB

-16.6 (5)
-15.7 (13)
-15.2 (14)
-15.7 (16)
-16.4 (3)

L400 11 08.3 +30 44

+31°22'0

8.38 +1.35 +1.28 (5) 7.53 +0.54 (2)

AB59893

34" diameter 10.00 +1.48 +1.18 (5) 8.86 +0.51 (2)

-16.4 (3)

-15.9 (16)

GC -140

−10° 3216 11 4.0 −10 11 +400 601

" " 6.2 −10 24

Y 2603 " " 8.8 46.5 −10 41.95

HO 97214 48

LPM 370 46 C(7) 24 −?

0450 Hrs

819

753

758

75

Lunden −.87 +.66 9.0 NO +8.4

+0.047

−0.951 +0.547 CR

1.75

−0.950 +0.600 +40.0

601.000*

11.000*
8.800*
-10.000*
-42.000*
-0.950*
0.600*
1.750*
22.387
40.000

5.318
0.036

120.498

0.288
-0.708

-21.878

0.018
0.705

28.598

+5° 2463 11 5.8 +5 16

11" 10.7 +4 44.99

Cambria

-0209 -035

-312 -037

+18.5

Bat

+15

+18

Li 18.1368 -.317 -.031

7.80

8.8 K8 +7.4

-293 -030 Y

-3 -6

-0.296 -0.034

-334 -040 (3)

-310 -35 +18.7

B12-MB 512

046 (3)

604.000*

11.000*
10.700*
4.000*
45.000*
-0.310*
-0.035*
1.400*
19.055
18.200

1.196
0.160

25.702

-0.623
-0.514

-21.223

32

-0.608
0.843

3.761

+74° 456 | 11 | 5.6 | +74 | 16 | 603

Y 2611 | 11 | 8.6 12.1 5.9 | +74 +73 | 44.97

AJS 8100 AC;
d = 7".5.
Δm = 3.5 mag.

9784

73 M(6)
80 G(8)

A +8.16 3w dpS

-0.436 109

393 109

B gmo +3.63w

G.C. 15449 -.402 +.105
Optical companion to No 2612 (Y)

7.64 K8 +7.4
+0".077

055

689
633

-0.402 +0.105

+105

1454
109
040
487

603.000*

11.000*
12.100*
73.000*
45.000*
-0.400*
0.105*
0.850*
14.791
6.500

1.657
0.497

27.740

-0.263
0.554

-0.287

-1.013
0.668

-10.646

97584 11 12.0 +73 45 GdNS +8.1 (W13)

GC15449 7.63 +1.03 +1.07 e_{CO_2} Nish 7S dNS
W6798(GMS) ~~8.3 GMO~~

Y2611

+760456

-402 +105

+25 0 -9 .071

+26 +1 -7 .077

73M(W)

76G(S)

77 IG

LB420B

603 11 12.1 +23 45

+74°456 +7.6

ADS 8,100 A 2.72 +1.04 +0.42 (2) +0.405 (2)
AC 7.5"
$\sigma_m = 3.7$"

+8.1

GL

−17.3336 11 8.1 −17 20 37
−17.3337 11 12 8 49.2 −17 51.07

Y 2618

49 M(7)
64 Y(12)
55 C(8)

A +5C 5W −36
B +18 C 5W 58(90) +18

Cm20-624 +.16 −.80
a Triple system: 11.2 K6, 11.2 K6; also 9.1 M5, 20" opm. Rel. parallax is mean for A B+C

−17°3337 Sp B Jay 1947

A-B Component, L 755 83"

+0.176 −0.735

CR

A 9.08 +0.58 (3)
B 9.16 +0.60 (3)
C 12.30 +1.14 (3)

A 9.96 +1.31 +1.21 (2)
B 10.05 +1.32 +1.21 (2)
C 13.70 +1.55 +1.05 (3)

37.000*

11.000*
12.800*
-17.000*
-51.000*
0.180*
-0.735*
1.700*
21.878
7.000

-2.465
-0.041

-54.206

-1.566
-0.775

-39.678

-2.083
0.631

-41.161

+66.717 1,1 12.5 +66 38 38
Y 2631 11 18.5 18.0 +66 +66 23 6.79
14,18
5Z4ma

9.32 +1.42 +1.08 M IV IM
+46.9 to 3W

(1) (1)
123 I (8)
131 I (2)
111 In (1)

+68.1

Lu 18-1383 -2977 +179

-2.955 +0.192 Gm's

8.4 M2

9.32 8.31 +76 15

9.32 +1.42 +1.08 (5) 9.32 +1.42 +1.08 (5)
8.32 +0.76 Std

−13°3333	11	9.2	−13	54
	11	13.957.2	−14	25.10

47
23
0
7

8.44 0.66

McC-AC −.184 −.106

10.00 MO +8.0

607

+660717
GC 150-75
W6932
Y2631

11 17.5 +66 07 dm1 +4688 W63)

9.24 +1.45 +1.21 mich
9.32 +1.42 +1.08 mich 5+M

+60.1 (10)

−2.960	+180	
−2.955 ±0	+192 ±3	GR
−2.948 ±7	+149 ±10	GC
−2.962 ±6	+175 ±6	GAZ
−2.985 ±6	+179 ±6	mw

szuman

+130 −16 −7 .114
+146 −25 −11 .100

−2.949 ±6.7	+149 ±10	GC
−2.985 ±6	+179 ±6	PB-1500

−2

−2.55 +18 Cin
−2.948 +149 GC
−2.962 +175 GAZ
−2.960 +170

100 M (10)
122 G (8)
(126 M (2))
113 ±7

~~454~~ ~~983~~ 914 405 -2.960 +170 +46.9 155 +43 327

~~-2.910 +52 +45 -029~~ ~~-13.650~~ ~~3.302~~ +19.0 ~~+3~~ -19

845-029 2.910 -152 3.302 13.650 .13

-4854 =6.7 +49 +40 ~~-105~~

-4914 +179

28.544 1902.9 +66 7 2.51 1407.4 +23 +86 +45

22.562 - 6.35

57.406 50.16 .1

9.34 11.5 +30 +117 +46

21.258 -11.68 1425.3 +127 -3 -24

40.617 59.52

-284 -24

.333 4342 59.23 1965 55.5

-62 39.177 59.833 27.8

.271 -12.235 +3.66 20.4

38.055 1930.2

.075 0.2

-11

0.09

24.9

$-19^\circ 3242$	11	14.2	-19	39	608
	11	18.9	-20	10.24	

A) S 8138; d = 5."7
Δm = 2.3 mag.

Yale Zone +.200 −.131
−18 −6
+1

8.6: M0 +8.7

1877.12	307.1	6.34	2 C 0
1910.88	314.4	6.03	8 —
19			

+0.187 −0.136 0.4 3.7

608.000*

11.000*
18.900*
-20.000*
-10.000*
0.187*
-0.136*
0.600*
13.183
3.700

-1.084
-0.082

-14.599

-0.010
-0.787

-3.046

35

-0.159
0.611

0.162

+40.477-39

11 17.0 +40 46 30
11 19.6 +40
11 22.2 19.9 +40 14.69

39

Y 2643.1
25 m(8)

+16 dly

Hd. -109-003

-094 MR

-0.103 -0.002

10.33 +1.86 +125 (3)
9.34 +0.64 (2)

-70
-105 0 165

39.000*

11.000*
22.200*
40.000*
15.000*
-0.105*
0.000*
1.650*
21.380
-7.000

0.434
0.371

6.678

-0.181
0.054

-4.242

36

-0.163
0.927

-9.982

-0044 ±4.2 +033 ±4.2
-0050 +019

99625 11 25.1 -25 35 6.8 dG7 -14.6 f

15724
6982 6.74 +1.08 +2.10 2 24" -0047 +025
-00464 +0274

8.825 1906.6 -25 35 8.44 1906.0 -0
191 -1.45 -0630
9.016 9.89 -061 031

54.48 54.33 1935.11
14.328 14.92
9.809 9.25
9.+40 -18
+3 +14
.852 9.27 1468
858 29.6 92 362
-162 302
-148 1933.54 9.41 1939.57
8.862 203 9.50 +16
-6 10 9.25
856 9.40 9.36
8.885 +.58
10
.495

99592

-56°45'54" 429.4 II 28.3 -56 52 IR4E -2.7 4C

FD710 680602 8.33 +1.06 (2.18) 041

HyR E minimi

-531 +029 227

1518 7-0 606 588 348

-509 +23 FP→

~~-515 +17 CP~~

-550 +31 CR 6.52

-530 +27

-581 +27

-558 +025

NOT

8.35 +106 +0.405 (3)

7.50 +0.45 (2)

712

6.53

0.9

9942 9637 5307

9109 7664 1227

0.000*

11.000*
28.300*
-56.000*
-52.000*
-0.530*
0.025*
0.800*
14.454
-2.700

2.231
-0.375

33.268

-0.956
-0.924

-11.326

37

-0.657
0.070

-9.682

+41°2201 11 23.8 +41 19 612

11" 28.9 56.0 +41 +40 47.55

51

25

-6

863

604

9

29

+41 20cw

Hbs. pg. I 815 -.157 -.009 9.7 MOp +8.1

+4.1

205

-0.157 -0.009

9.80 1.21 1.44 — 0.49 (2)

612.000*

11.000*
28.900*
40.000*
48.000*
-0.157*
-0.009*
2.050*
25.704
4.100

0.636
0.355

17.806

-0.322
0.071

-7.981

38

-0.218
0.932

-1.778

−2° 1513-110 11 25.9 −2 38

11 30 18 45.0 −3 9.48

49
21
73

McC-AC −.135 −.117 11.3 MO +8.7

+9.6

4 md

Vega 616 11 39.5 +27 00 10.5 dM3 +10.6

7104 +9.6 (10)

900 -510 vvR

+.90 -.74 Rovo

Rovo 905

0.108 abs vv

9.42

05E

+10.1 2 upper

1050

10.68 1.54 1.23 9.45 1.00 +9.65 (10)

-800

+8.5 (5)

10.66 1.52 1.19 1.06

0.25

9.5

R=6.10 8.46 9794 9.56

J-H 591 2281 0132

H-K 235

W -0.35

M	:	50.836
qM	:	1841.285
d3 (M)	:	0.693
d2 (M)	:	0.639
d1 (M)	:	0.391
U	:	-50.489
qU	:	X-1218.72
d3 (U)	:	-0.139
d2 (U)	:	0.602
d1 (U)	:	0.403
U	:	-22.796
qU	:	X-2344.4
d3 (U)	:	0.231
d2 (U)	:	0.452
d1 (U)	:	-0.812
RAD. VEL.	:	6.200
MODULUS	:	11
DISTANCE	:	0.320
PM. DEC.	:	-800.000
PM. R.A.	:	1010.000
DEC.	:	32.000
R.A.	:	11.920

R.A.	:	11.650
DEC.	:	27.000
PM. R.A.	:	1010.000
PM. DEC.	:	-800.000
DISTANCE	:	0.250
MODULUS	:	11
RAD. VEL.	:	9.500
q1 (U)	:	-0.875
q2 (U)	:	0.425
q3 (U)	:	0.231
dU	:	%-5344.4
U	:	-57.769
q1 (V)	:	0.403
q2 (V)	:	0.905
q3 (V)	:	-0.136
dV	:	%-1710.7
V	:	-20.486
q1 (W)	:	0.267
q2 (W)	:	0.026
q3 (W)	:	0.963
dW	:	1041.602
W	:	20.839

39

VK285 11 42.1 +31 15

+31022290

8.96 +1.13 +1.06 (2) +0.415 (2)

+26.2

NO

R.A.	:	11.700
DEC.	:	31.250
1. R.A.	:	-32.000
1. DEC.	:	-381.000
STANCE	:	2.140
10DULUS	:	27
). VEL.	:	26.200

q1 (U)	:	-0.875
q2 (U)	:	0.413
q3 (U)	:	0.252
dU	:	-631.455
U	:	-10.308

q1 (V)	:	0.410
q2 (V)	:	0.910
q3 (V)	:	-0.064
dV	:	%-1696.096
V	:	-47.115

q1 (W)	:	0.256
q2 (W)	:	-0.048
q3 (W)	:	0.966
dW	:	52.787
W	:	26.711

+31°2290 11 37.1 +31°47 31

11 39.6 +31 +31

42.1 4.8 15.36

-0.060 -0.380

-0.060 -0.380

-0.38 -0.354

-0.47 -0.394

11.000*
42.100*
31.100*
15.000*
-0.050*
-0.370*
1.850*
23.442
27.000

-0.516
0.252

-5.301

-1.693
-0.064

-41.399

0.023
0.966

26.612

41

45 11 37.6 +72 53 617

11 43.0 +72 21.35

Green. Cloth +.023 +.066

+0.023 +0.066

+016 +067

231 20cw

9.2: K8 +7.7

617.000*

11.000*
43.000*
72.000*
21.000*
0.023*
0.066*
1.600*
20.893
-23.100

-0.049
0.460

-11.651

0.272
0.550

-7.031

-0.183
0.697

-19.908

273.000*

9.000*
59.400*
44.000*
49.000*
-0.255*
-0.075*
2.000*
25.119
30.000

0.926
0.611

~~41.557~~ 4280

-0.523
0.062

~~-11.257~~ 1.5

-0.675
0.789

~~0.710~~ 8.30