+16°.1877 8 52.1 +16 24 263

8 57.4 24.6 +16 1.83

Dble, d=1".6 Δm=0.5 mag.
Aldm

63
364

1?

Inc C-AC -0.126 +.009 10.0 M0 +8.7

1961,21 292 1,74 3 wov

77370 β 58.2 Dy -58 54 dF-4

HR3598

GL1244 5.16 +0.41 +0.005 2S54

[m] 209 +11 .270 .160 .517 2.663 ③ 4,4,5,2

274

[c] 463 4 1

5 2.32 +43 -16.8 +5 S -0224 +10.6

+272

+3.05 +15 -2 +2

−0229 ± 2.8 +273 ± 2.4
−0228 +247
+276

77370 8 58, −0228 −58 8 4 5.2 F1 +10.6a

12449

5.17 +0.40 +1.00 24" −0228 +273

5921

−02273 +276
−1761
−173+279

3598

10.620 1901.6 −58 53 30.50 1896.2
1.108
11.728

−14.69
45.19

69.41

9533 −6559
3019 7549
0354
2,125

10164 24.87
+79 −20
183 250

33.76
+4
33.72

1939.62
3241
0524
−7.0

85.82

10.898
−20
.878

1574
787
.941

41.3

1946.2

42.9

46.7

10.68
+016
.696

31.1
−07
31.77

549
32.74
+12.45

270 160 527 2663

516 267 170 505 2674

250 457

735 350

267 215 +345

244 165 511 2672

583

529

AR358 44143 S 58.2 -58 54 +10.6a

14 77370 +28

214 +28

-166 28

5.13 +0.39 F1 -174.10 28.78

-0224 ±2.8 +223 ±2.4 3830 0.57

10.678 1.6 -0225 +276 30.50 96.2 -177 +273

1.65 -0223 +266 -1469 -174 +276

11.710 45.19

45Y(12) ~~10.286~~ (641) 24.82

46(7) 10.164 -14

1.8 25.02

10.84 32.62

3224 -033 33.76 -0226 272

9520 - 6461 -0555 -33 +10 -02253 275

3041 7632 44 33.66 ~~-02223~~

8.65 -1746

-171 278

713 -701 -856 517 -174 +276 +10.6 -236 -9 .048

124 164 122 16.5 -195 1.374 +5.5 -4 +4 042

-8 +37 +7

-9 +38 +8 04

+36 -14 +6

038

-9 +40 +9

+38 -15 +5

035

-10 +43 +10

-8 +31 +4 05

+42 -15 +6

+28 -14 +4

CC504 8 58.2 +5 27

505

M_H 353.2 B

.054m(6)

12.31 1.45 e-v

12.44 1.46

-380

11.11 1.09

11.41 1.15

-.270 -.190 M(R)

-.262 -.192 M(R)

-.258 -.210

8322 - 7283 } 1039

8544 - 6852 } 1692

8.45

6.5

-.266

.191

1.10

-.850

-627 426 620	+8283 -3856	+4427 +8
-037 805 -591	+0466 -7288	-6822 -13
752 413 515	-9481 -3739	+1.3220 -26

```
-181-
 41 "  0  0
 30 "  0  0
 74 "  0  0
 25 "  0  0
 00 "  0  0

-981-
 41 "  0  0
 00 "  0  0
 25 "  0  0
 00 "  0  0
 00 "  0  0

-161-
 00 "  0  0
 00 "  0  0
 00 "  0  0
 00 "  0  0
 00 "  0  0

-291-
 00 "  0  0
 00 "  0  0
 00 "  0  0
 00 "  0  0
 00 "  0  0
```

+15°.1957 — 8 53.3 — +15 51

Y 2156 — 8 58.6 35.5 — +15 28.71

ADS 7139, d = 5", Δm = 0.1 mag.

HD 77175

GC 12463 W 5925 — G4 0.55

24M(8)

−12.6 6 3W

−12.2 4 kpgm (A) d N6

7.50 6 7 4 — −12.6 3 W/m

7 4 9 6 1 — −12.2 4 kpgm

−12.3

1 2 2

Ci 18.1066 −0.096 −.313

the rel. parallax is mean for 2 comps.

9.0 MOp +8.8

+0".024

1830.74 210.0 4.11 3 E

1872.52 204 4.86 5 0 E

1903.50 197.5 4.91 5 Hδ60, β

1914.71 194.8 5.16 41

−150 −294 G(2)

−0.101 −0.325 — −12.8 — 1.4

Dyw ↓

8 66 55

941

886

264.000*

8.000*
58.600*
15.000*
29.000*
-0.101*
-0.325*
1.400*
19.055
-12.800

-0.165
0.682

-11.283

-1.363
-0.444

-20.297

-0.846
0.581

-23.549

-104 -334

264 8 58.6 +15 29

+15°19'57"

AP 8.71 +1.30 +1.22 ② 132 +0.55 ③

ADS7139

5" sm=0.1"

-336 ±0.5

3/355 21 0792

2821

638

0.59 953

1837

1896

105 -830

31.022

24

046

46.12

5041

14

47

104

-830

040

-123

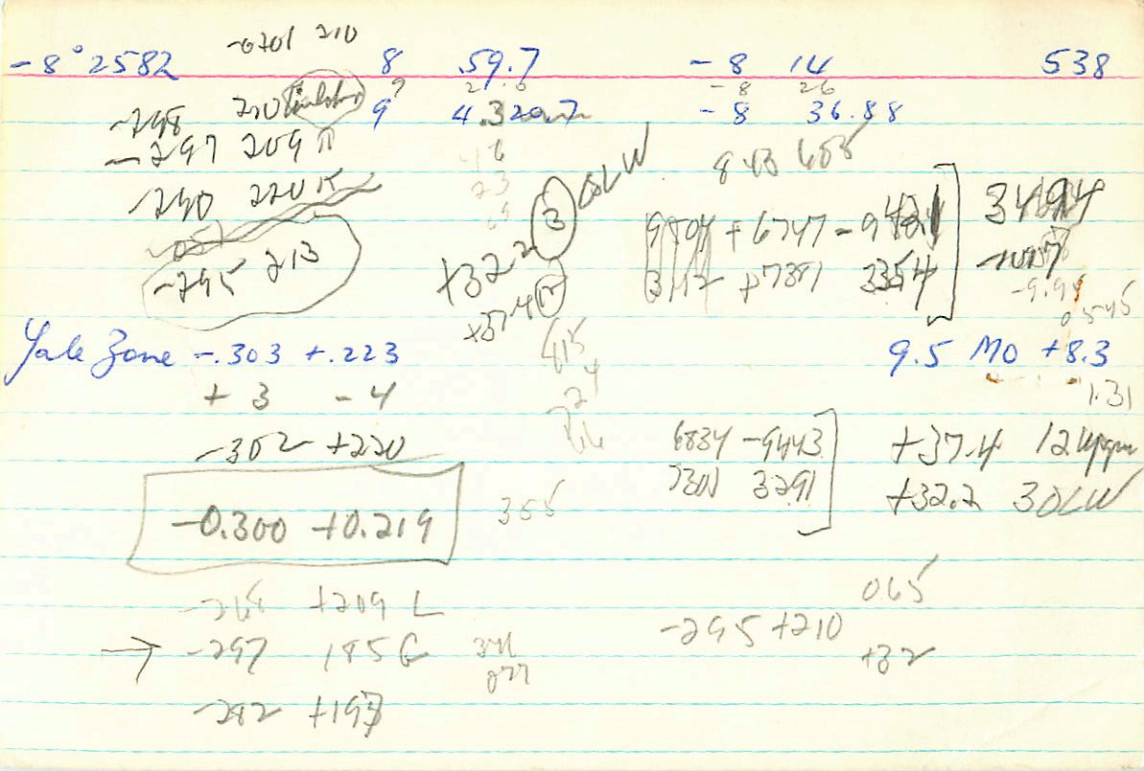
-12.8

```
     R.A. :      8.950
     DEC. :     15.450
PM. R.A. : -108.000
PM. DEC. : -330.000
DISTANCE :      0.900
 MODULUS :     15
AD. VEL. :    -12.300

   q1 (U) :     -0.657
   q2 (U) :      0.312
   q3 (U) :      0.686
        dU : -163.825
         U :    -10.921

   q1 (V) :     -0.039
   q2 (V) :      0.895
   q3 (V) :     -0.444
        dV : %-1381.193
         V :    -15.444

   q1 (W) :      0.753
   q2 (W) :      0.318
   q3 (W) :      0.576
        dW : -869.293
         W :    -20.243
```


-8° 2582
-8 59.7
-8 14
538
Yale Zone -.303 +.223
+3 -4
-302 +220
-0.300 +0.219
9.5 MO +8.3
+37.4 12 Mpm
+32.2 30 CW
-295 +210

538.000*

9.000*
4.300*
-8.000*
-37.000*
-0.295*
0.210*
0.650*
13.490
37.000

1.503
0.478
37.97
35.595

0.658
-0.771
-19.66
-15.918

-0.505
0.420
87
51.592

0.74
0.85
+100
-18.8
+81

+33°221-52 q 0.2 +33 4 539

q 6 1.1 +32 41.02

McC-AC -.11 +.07 10.8 KS +7.4

Cyg-26 9 06.5 +33 02

+33 18 24

Bl 386

10.01 +1.34 +11.9

-330 Onnd Inlay

-393

-6.76

2.4

+9.1

S 036 -330 -609

M 069 -334 610

1.46

+27.3
-58.4

-230

R.A.	:	9.100
DEC.	:	33.000
PM. R.A.	:	-393.000
PM. DEC.	:	-626.000
DISTANCE	:	2.400
MODULUS	:	30
RAD. VEL.	:	9.100

q1 (U)	:	-0.679
q2 (U)	:	0.105
q3 (U)	:	0.726
dU	:	750.144
U	:	29.265

q1 (V)	:	-0.013
q2 (V)	:	0.988
q3 (V)	:	-0.154
dV	:	%-2911.979
V	:	-89.344

q1 (W)	:	0.734
q2 (W)	:	0.114
q3 (W)	:	0.670
dW	:	%-1484.24
W	:	-38.729

+27.23436

Y2181

6413 -9386

7220 -8106

9 0.5 +25 1

9 6.186 +27 38.00

25

+21 slight 12+13 Summ

14 M(8)

24.(2)VV

+19.0 10CW

10.26 +1.245 +1.225 (2)

9.55 +0.53 (2)

? 9.5 MD

MeL-AL -205 -031

-0.205 -0.031

-210 -027 VVR

9.17

-210

-208 -30 2.45 HS.0

+77.361 9 0.9 +77 50 118

9 12.723.6 +77 26.68

Ranges

Orbit

63N(7)
39V(12)
38C(12)

−4 degree

70 0.58

Prism 0.84 by 31

5070
+1
045
+8

Gmw −1.059 −020

+0.1 10+8.3

Open with 25 4 8 n 27.4 +67 34

10.08 9.97 +0.62 (2)

−1.067 +0.001 Gm'R

105 1.80
43.6

87-9

+4.1

-820

```
   R.A.      :   9.200
   DEC.      :  72.400
PM. R.A.     : -5072.000
PM. DEC.     :   1.000
DISTANCE     :   0.450
 MODULUS     :  12
RAD. VEL.    :   8.000


q1 (U)       :  -0.693
q2 (U)       :  -0.415
q3 (U)       :   0.588
dU           : 3633.157
U            :  49.405


q1 (V)       :   0.005
q2 (V)       :   0.814
q3 (V)       :   0.581
dV           : -22.181
V            :   4.375


q1 (W)       :   0.721
q2 (W)       :  -0.486
q3 (W)       :   0.542
dW           : -3729.223
W            :  41.796
```

R.A.	:	9.200
DEC.	:	77.400
PM. R.A.	:	%-5070.000
PM. DEC.	:	1.000
DISTANCE	:	0.450
MODULUS	:	12
RAD. VEL.	:	8.000
q1 (U)	:	-0.693
q2 (U)	:	-0.416
q3 (U)	:	0.588
dU	:	3633.157
U	:	49.405
q1 (V)	:	0.005
q2 (V)	:	0.814
q3 (V)	:	0.581
dV	:	-22.181
V	:	4.375
q1 (W)	:	0.721
q2 (W)	:	-0.406
q3 (W)	:	0.562
dW	:	%-3779.223
W	:	-41.996

f47°.2368-79 9 1.8 +47 12 265

9 8 14.0 +46 48.84

Inc C-AC -0.38 -.02 10) MO +9.8

-7873

+53°1320 GWW 9 4.5 +53 18 541

9 7.6 +53

+53°1321 9 11.3 17.3 +52 54.57

Y 2198

168 A(20)

161 M(8)

148 Y/K(3) A +105 83w dm0 +11.4 30cw

158 S(5)

115 U(2) B +54 84w dm0 +16.9 30cw

1605(25)

161±4

ADS 7251; AB dl = 19" binary

Δm = 0.0 mag.

HD79210

HD79211

G.C 12727 −1.569 −.590

G.C 12728 −1.546 −.682

In all, the rel. parallax is mean for the 2 components.

A 7.60+1.38+1.21 mOE R 6.99 Mop +8.9

B 7.70 +1.34 +1.22 mOE Mop +8.9

+0".163

A0 6.92 +1.42 +1.27 SK

1832.96	48.4	20.10	5E
1844.45	51.4	20.09	7 0E
1859.05	54.6	19.65	9 Δ
1898.14	63.9	19.24	5 p
1910.82	67.5	19.07	55 —
1921.45	71.9	18.86	24 —

-1.553 -0.631 +10.6 −1.15 mm/yr

6.76 +68 }K

6.84 +69 }

6.34

54 6.6 115

541.000*

9.000*
11.300*
52.000*
55.000*
-1.553*
-0.631*
-1.150*
634 5.888
10.500

5.500
0.709

39.832

-2.957
0.192

-15.402

-4.913
0.679

-21.806


9.000*
11.300*
52.000*
55.000*
-1.553*
-0.631*
-1.000*
6.310
11.4
5.500
0.709
42.148
-2.957
0.192
-16.
-4.913
0.679
-23.

+5° 2143 9 7.3 +5 3 542

9 12 B 17.2 +4 39.39

Ci 18.1091 −.130 +.012

−116 +032
−3 −4
−1 +1

−0.120 +0.024

+116

0.7

−111 +025
−3 −4
−1 702
64

−104 011

−104
+11
0.55
16.4

8.2 K5 +7.1

Destroying

542.000*

9.000*
12.600*
4.000*
40.000*
-0.120*
0.029*
0.700*
13.804
16.000

0.456
0.570

15.407

0.106
-0.605

-8.217

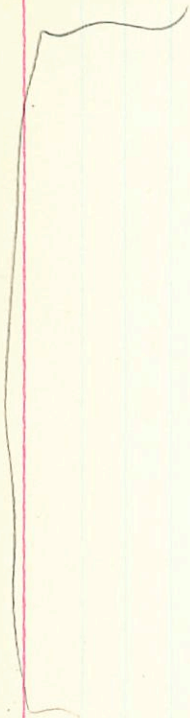
-0.352
0.556

4.044

542 9 12.3 +4 89

+5021+3

-130 +012 Cin



M	:	3.244
qM	:	-335.301
d3 (M)	:	0.224
d2 (M)	:	0.214
d1 (M)	:	0.121
V	:	-6.318
qV	:	36.072
d3 (V)	:	-0.592
d2 (V)	:	0.264
d1 (V)	:	0.002
U	:	12.008
qU	:	323.620
d3 (U)	:	0.272
d2 (U)	:	0.434
d1 (U)	:	-0.263
	:	19.004
BANDWIDTH	:	12
DISTANCE	:	0.250
pM' DEC'	:	11.000
pM' R.A.	:	-104.000
DEC'	:	4.250
R.A.	:	6.200

R.A. :	9.200
DEC. :	4.650
PM. R.A. :	-104.000
PM. DEC. :	11.000
DISTANCE :	0.950
MODULUS :	15
RAD. VEL. :	16.400

q1 (U) :	
q2 (U) :	-0.693
q3 (U) :	0.439
	0.572
dU :	363.570
U :	15.006

q1 (V) :	0.005
q2 (V) :	0.796
q3 (V) :	-0.605
dV :	39.076
V :	-9.316

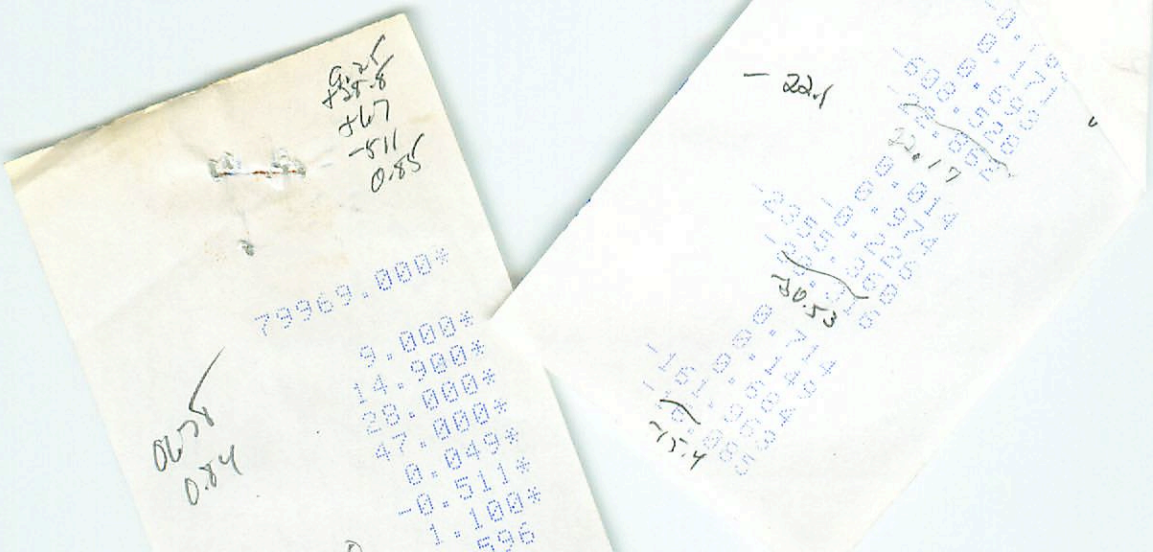
q1 (W) :	0.721
q2 (W) :	0.417
q3 (W) :	0.554
dW :	-332.301
W :	3.944

.0676 $a = \overset{''}{.072}\ 0.''72$

fit std dimen
and symbols
by $m = .022$

0.494
.7605


-23
-2.356
-0.226
-34.570
-33
-0.196
0.684
-16.929
-17


79969.000*
9.000*
14.900*
28.000*
47.000*
0.049*
-0.511*
-0.100*
1.100*
596
-22.1

544

-5°37'

8 +8.3 -5 32

9.11 +1.7 +1.6 ① 8.44+0.44②

340.3

-351 +104 ↑

345 115

-366 115

36.5 12h

40.8 3w

+40.0

-25'76

−5°2778 8063

9 13.6 −5 9 544

9 18 13 20.1 −5 33.17

806 +046 ±17 MC

745

54

47

33

034

Yale Zone −.357 −.120 −351 −104 MCN 9.1 118 +7.5

+6 +2

−0.351 −0.118

−362 −134

−39 −044 G(1)

−355 −115 −0.8 +408

```
544.000*
  9.000*
 18.300*
 -5.000*
-33.000*
 -0.355*
  0.115*
  0.000*
 14.454
 40.000
  0.902
  0.466
 -0.408
 -0.736
-35.421
 -1.466
  0.491
 -1.141
```