

+27°22'96

Y 3153

13 42.5

+27 43

700

AR: 7.9, 8.3, 156 years

13 46.952.7

+27 29

14.66

ADS 9031, $d=1$ $\Delta m = 0.4$ mag.

HD 120476

A -20.583w dK6

78M(7) 98 ± 6 S

B -21.783w

W 815-5/6

The McConnick et al. parallax is the mean of 3 determinations

96.5(10)

dK6

G.C. 18670 -439 -094

75M(7) A -20.7(3)

7.00 K8 +7.3

P=185 yrs

596
460.6
460

B -22.10

+0.058

Q=2423

$$-0.441 - 0.091$$

U+B

603

V

541

1.24

0.55

541

0.6

-21.0

6.15

56

*

700.000*

13.000*

46.900*

27.000*

15.000*

-0.441*

-0.091*

0.550*

12.882

-21.000

1.292

-0.181

20.436

-1.636

0.130

-23.806

0.457

0.975

-14.584

700 13 46.9 + 27 15 -21.4

+275296

AB 204 +1.12 +1.07① +0.425③

ADS 1031

" " $\Delta m = 0.4$ -406 -072

9.04 112 640 0.425

110
089
649
8049 9047 348
-5888 -4241 124

-19.5

+27° 31338

13 44.9

+27 4

701

13 49.3 16.9

+26 35.81

+112.8

+10.7 36492

44
22

11.00 137

(012)

(0.61)

9.51-1

McC-AC -.033 -.103

10.4: MO +7.7

⁰⁰⁰
Taper 036 VV 005 -113

-17

-108

+10.7

2.8

91

+27.2302

13 49.7 +26 52

10.83 0.25 (0.21)
6.20

-147 (2) hyp

0.077 VV abs

-070 +05✓

-28

+52

5.6

-19.7

92



+13.2721

Y 3174

13
13

46.4
49.8
51.02

+13 40

+13 20
+13 11.92

53

+65M(8)

6

+6 Day

$m_c - 159$

~~NO~~

Gn20-824 - .23 -.71

9.9110

G65-12 -106 -671

-181 -676

-144 -675

9.80 +1.35 +1.11

G~~65~~ - 8.93 +0.685 (2)

+6

855

7.65

105

83



2

13.800	:	R.A.
22.900	:	DEC.
-78.000	:	PM. R.A.
22.000	:	PM. DEC.
2.000	:	DISTANCE
135	:	MODULUS
-12.700	:	RAD. VEL.
-0.747	:	p1 (U)
0.637	:	p2 (U)
-0.188	:	p3 (U)
403.422	:	Ub
20.81	:	U
0.222	:	p1 (V)
0.770	:	p2 (V)
0.138	:	p3 (V)
-10.228	:	Ub
-4.222	:	V
-0.228	:	p1 (W)
0.222	:	p2 (W)
0.222	:	p3 (W)
79.242	:	Wb
-8.242	:	W

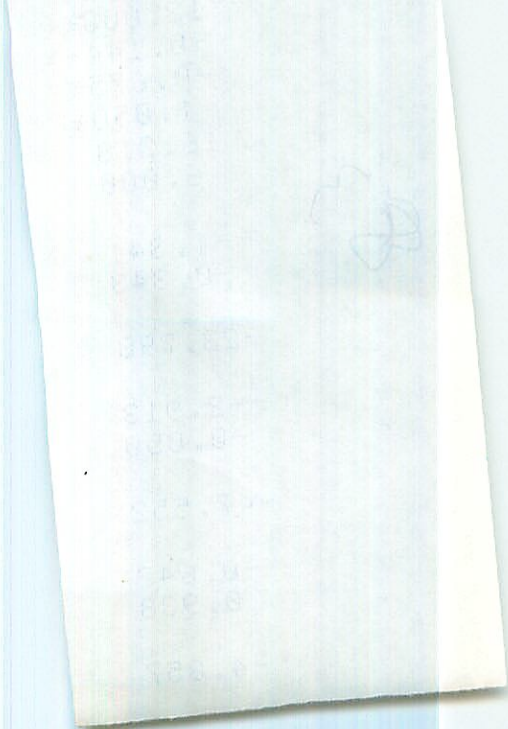
8A

R.A. :	13.800
DEC. :	26.900
PM. R.A. :	-78.000
PM. DEC. :	52.000
DISTANCE :	5.600
MODULUS :	132
RAD. VEL. :	-19.700

q1 (U) :	-0.747
q2 (U) :	0.637
q3 (U) :	-0.188
dU :	403.499
U :	56.891

q1 (V) :	0.625
q2 (V) :	0.770
q3 (V) :	0.128
dV :	-16.228
V :	-4.655

-0.226





12.000*
-0.144*
-0.675*
1.050*
16.218
6.000

-1.341
-0.343

-23.798

-2.913
-0.050

-47.552

-0.647
0.938

-4.857

86633

+13 2721

13 51.0 +10 12 V₉₀ 50

86511

-120 -671 G+11

950 140

843

680

-123

980 125

505

-675

663

1.50

+6

156

312

584

81

84

017.251-N : UB

402.03- : U

852.0 : (V) 1

777.0 : (V) 2

020.0- : (V) 3

805.1485-N : UB

599.22- : U

785.0- : (M) 1

825.0 : (M) 2

838.0 : (M) 3

887.872- : MB

218.7- : M

1 (U) : 0.577
3 (U) : -0.343
dU : % -1425.710
U : -30.504 -354

1 (V) : 0.628
2 (V) : 0.777
3 (V) : -0.050
dV : % -2841.208
V : -56.992 -584

1 (W) : -0.237
2 (W) : 0.253
3 (W) : 0.938
dW : -673.783
W : -7.816 g4

-1° 2892 LFT 1061

Y 3195

#0122303

LPM 504

McCAC - 802 + 605

726(17)

786 6M 6m

9.8 Mo + 9.3
to 10.073

* Prof. motion is also given by
Luyten (Minn. Publ. III, No. 1.)

767

110

1159

9190-9445

-3967 1049

13 53.7

13 56.0

13 58.6343

-2 0

-2 12

-2 27.59

705

*

725

13° 49' .4

-50° 40'

40120780

+7.39 +0.89 +1.98 KIV

$$-06395 -0485$$

$$\begin{array}{r} -6023 \\ \hline -604-045 \end{array}$$

$$\begin{array}{r} 9496 \\ 9496 \\ \hline \end{array}$$

$$-3130$$

$$\begin{array}{r} 9768 \\ -2144 \\ \hline \end{array}$$

$$\begin{array}{r} 5642 \\ 0855 \end{array}$$

$$0633$$

$$\begin{array}{r} -744 -050 -666 \\ +626 +293 -722 \\ -231 +955 +187 \end{array}$$

UN

0.54

120780

1516 550

102458

13

48.5

-50 40

way

-24.850.9

6618737

7.39+89 1.58 111

-25.050.9

7 3163

2.47

68 way

63/5

-5008082

13 m 6"

1684 525 287

618 340 406

1050

-613 -059 62

-587 -045 6
-605 -052

159 -20 +7 .050

152 -13 +3 .06

406
310
819
111
5

827(12)
022(17)
7157

107
079

-0645 ± 7.5
-059 ± 5.6
-0632
-050

27.014 1908.2 -50 40 29.33 1906.5

2.696

-0634

-0545

2.57

29.710

-06345 - -0485

26.76

1.80 1927.14

53.120

35.232

33.2

-26.62
28.42
28.61

28.352

192.22

82.74
-11.4
34.9

152.3

27.6.11

27.76

28.50

1505

-2.099

-1955.56

26.742

-2.29

-3.5

71

29.24

*

+47° 2112

Y 3200

13

13

14

56.7

58.5

0.427/0

+47

+46

+46

2

49

34.58

706

4121
25

-38.42

N -31 CW dM3

S -28 CW dM3

-31.7 10 CW

9.22

M2 +9.8

+0.081

0.46

-34.0

+0.606 - 0.056

A, B: binary

A) S 9090; d = 3.0

$\Delta m = 0.0 \text{ mag.}$

100 M(8)

101 YK(6)

83 W(8)

50 V(10)

W 6252/3

In each case the rel. parallax is the mean for the 2 comp.

Furnish. 40 +.606 - .056

1789.39

6.7

2.44

2 β

1897.55

5.5

2.52

3 β

1914.78

12.0

2.94

9 -



206 14 00.4 +16 35

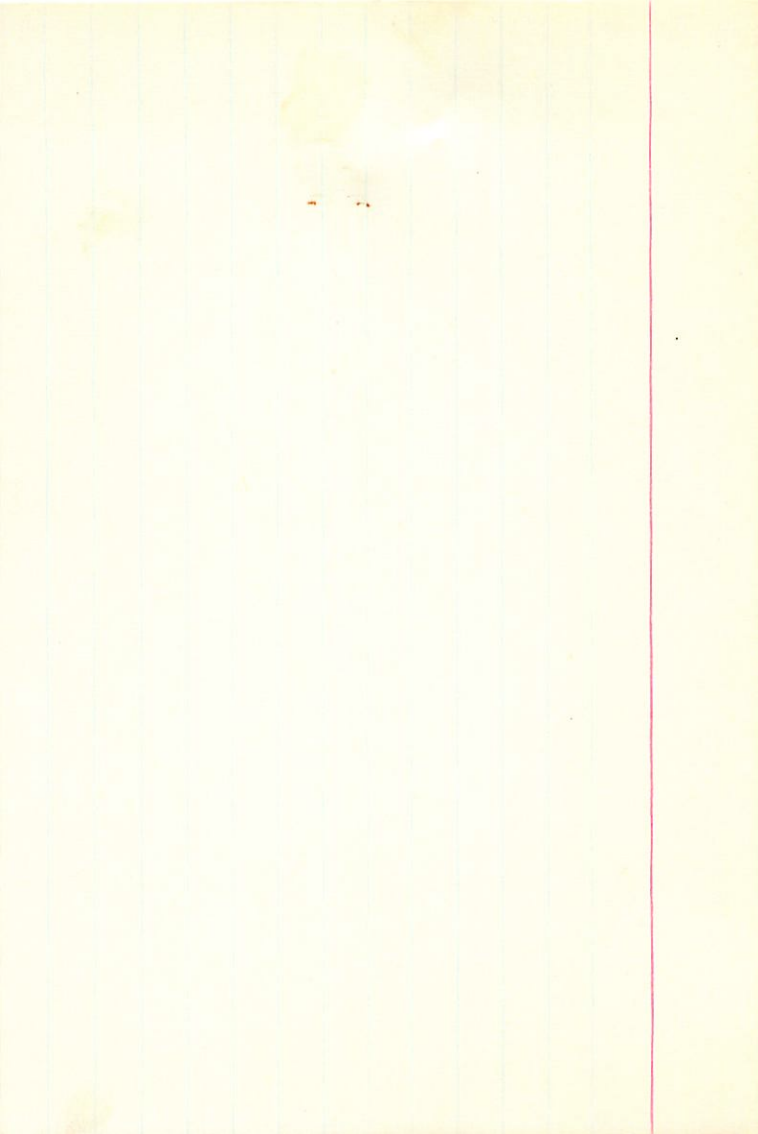
+4702112

AD 9.15 +1.48 +1.16 ② -10.83 ②

ADS 9090

3" 15m=0

-340



+81465 14 11.5 +81 18

152

2869d 14 9 6.5 +80 51.44

1157
-522

10

464

(+6.4)

215 -552 106

184 -522

1.

Sum +172-534

10.3 40-48.1

66

R.A. : 1157.000
 DEC. : -525.000
 DEC. : 1.000
 STANCE : 10
 MODULUS : 8.400
 VEL. :
 P1 (U) : -0.705
 P2 (U) : 0.293
 P3 (U) : 0.394
 Q1 : X-5078.830
 Q2 : -30.434
 U :
 P1 (V) : 0.644
 P2 (V) : 0.293
 P3 (V) : 0.707
 Q1 : -105.445
 Q2 : 1.251
 U :
 P1 (W) : -0.30
 P2 (W) : -0.70
 P3 (W) : 0.29
 Q1 : 1255.0
 Q2 : 38.8
 W :

1458
 3

1458
 3

1458
 3

1458
 3

11.

8.35
116
—
0.25

88

#46° 1951

14	11.8	+46	7	716
14	15	27.8	+45	40.69

McC-AC +.09 -02

10.0 MO_p +8.3

Handwritten notes on a separate piece of paper, including:

- 0.00
- 1.00
- 2.00
- 3.00
- 4.00
- 5.00
- 6.00
- 7.00
- 8.00
- 9.00
- 10.00
- 11.00
- 12.00
- 13.00
- 14.00
- 15.00
- 16.00
- 17.00
- 18.00
- 19.00
- 20.00
- 21.00
- 22.00
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- 26.00
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- 31.00
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- 82.00
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- 84.00
- 85.00
- 86.00
- 87.00
- 88.00
- 89.00
- 90.00
- 91.00
- 92.00
- 93.00
- 94.00
- 95.00
- 96.00
- 97.00
- 98.00
- 99.00
- 100.00

14.150
 -37.530
 -24.000
 -3.000
 11.59 7.000
 251 2570
~~1439~~
 2077 259.500

-0.702
 0.061
 -0.709
 62.186
 -168.424 -24
 55

0.644
 0.479
 -0.597
 -64.605
 -171.043 -321
 -289

-0.304
 0.875
 0.376
 14.806
 101.192 118
 1128

-5° 3853

Y 3250

HD 125354

8415

391(12)

+9.9 1 up gen

+13.8 3.06W

Ci 20.848 0.000

-40 +11.8

914

1.30

20

W13 427

019-427

49
427

0.000 / -0.400

507 -410 L
-030 -429 G

14 11.4

14 13.7

14 16.4 23.4

-5° 55

-6 8

-6 21.29

715

+14.2 106W

+17.2 ± 0.80W
mag.

9.5 mag +8.5
to "040

713
717
711

1.0
-8 -413 +138

8.12 1.30 1.20 0.525(2)

86

715.000*

14.000*

16.400*

-6.000*

-21.000*

-0.000*

-0.413*

1.000*

15.849

~~13.800~~

11

-0.797

-0.595

-19.6

~~-20.839~~

-1.440

-0.237

-25.60

~~-26.006~~

-1.061

0.768

-7.77

~~-6.220~~

48

GC
19465(30)

14 23.4 +23.51

dm1 +142.6(4)

+24°2733

dm2 +5.086(5)

Y3273

AB 9.14 +1.47

ε₉₅(12")

+76 A
+67 B

46"

Δm ≈ 0.1

+5

A +790 -1.125

+6.62

B +787 -1.125

A +786.5 -1.118₃

+788 -1.125

-104 -25 -28 .059

-78 -18 -20 .080

-62 -14 -15 .101

677.6(4)

545(8)

500(4)

55±7

19463

24.175- 1907.0

+23 5-1 25.95

1908.4 4.300

+0574 ± 5.4
+0574-1.131 ± 6.4
-1.1049.2
232.468

21.707

22.907

434

(223)

13.08

47.054992

13.00

51.07 1928.32-7308

483

50.83

49.3 1930.2

5852

23.03

5911

49.92

49.3

-30 44.00

243

13 22.981

+0574 ± 7.5

-1.125 ± 7.5

20.4

22.374 1903.5

+0574

+23

5-1 88.42 1903.6

2.678

23

52.20

24.696

76

30.82

1571

92

1.0 1930.2

26.23

23

-30

243

0.70

+16° 2658 55~ 14 22.8 +16 7 718

+3283 68m(5) 14 27.3 18.5 +15 41.61

W8458 62m(5) 60V 112.7 046VJ

+19.183W dm3

Ci 20.863 -.99 +1.42

10.72 M2 +40.0
+0.070

-0.540 +1.420

-1082 1322 0.40 +6.7

643 1296.643
-101368 1296.643
-1053 +1.347

-1.114 1.376
-1.088

8/1

RAD. VEL. : 6.70
 MODULUS : 15
 DISTANCE : 0.400
 PM. DEC. : 1322.000
 PM. R.A. : X-1082.0
 DEC. : 15.700
 R.A. : 14.450

U : 83.10
 QU : 7148.52
 p3 (U) : -0.42
 p2 (U) : 0.62
 p1 (U) : -0.62

U : 10.18
 QU : 1467.18
 p3 (V) : 0.88
 p2 (V) : 0.75
 p1 (V) : 0.62

p1 (W) : -0.36
 p2 (W) : 0.22
 p3 (W) : 0.20

R.A. : 14.450
DEC. : 15.700
PM. R.A. : $\% - 1082.0$
PM. DEC. : 1322.000
DISTANCE : 0.400
MODULUS : 12
RAD. VEL. : 6.70

q1 (U) : -0.65
q2 (U) : 0.62
q3 (U) : -0.42
dU : 7148.22
U : 83.10

q1 (V) : 0.65
q2 (V) : 0.75
q3 (V) : 0.08
dV : 1467.13
V : 18.18

q1 (W) : -0.36
q2 (W) : 0.22
q3 (W) : 0.90

-7° 38.56

14 23.3

-8

0

719

43255

14 287.20.8

-8

25.33

68467 HD 27339 9.45 +142 +1.20 R7E -26.86300

-1.30

Yale zone -1.260 -2.17

-3 -11
+3

$\Delta m = 3^m$

72M(7)

60Y(10)

51Yk(6)

40Y(4)

49Y(7)

-1.263 -225

-1.270 -0.247 CR

-2

-1.273

-1.245 -0.236

$\pi_{pt} = 0.056$

781 -80 +4

10.0 M2 +10.6

+0.047

+11° 2687

14

25.2

904 1.21 5.17

+11

0.57

59

720

14

27.5

+11

46

14

29.8 48.0

+11

33.81

-39.3 @ 00W

+24

+20

-32

812

7231

655

21.9 po.

+258 (6.1)

+109

100

200

+0.89

+200

155

-393

-39.3

M/C-AC

+0.89

+200

825

872

9.8

MO

+7.9

-657

543

-464

-2772

+5622

+2850

+6.2

+18.2

655

754

033

+2763

+7148

+9911

+21.7

-1.3

-369

282

885

-1557

+2673

+1116

+24

-348

98

720.000*

14.000*

29.800*

11.000*

34.000*

0.090*

0.200*

1.550*

20.417

-39.300

0.282

0.475

+17°2785

Y3343

9.127 1126 1.119
 9.24 1.26
 14 39.6
 14 41.7
 14 44.028

8.51 0.53 (3) GPC
 +17 0.51 Waha
 +16 57
 +16 44.07
 +42.1 (9) Var
 722

W8586

82 M(6)
 44 V(6)

430

+430 (3) 00W
 +47.864W
 die6

G.C. 19890 - .126 - .928

1.26
 +1.19

806

9.26 MOp +8.3
 to .067

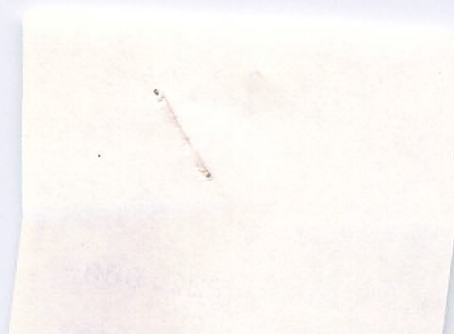
+44.9
 1.35
 -0.125 -0.922
 -0.95 -905 (61)

Gc
 + new ↓

734

-68 -59 +27
 -244 -360 -69

91



722.000*

Yale 3246

14 3/16

-12

19

Ward 1481

-1103759?

1604 (F)

147 m (17)

150617)

151

9.82 + 1.25 17/12/2000

+9.52

Mowed

-315

+586 Cape TT

-350

Mc

330

2894

97

MEMORY OVERFLOW
MEMORY OVERFLOW

14.500
-12.300
-338.000
586.000
-0.900
7
9.000

-0.652
0.348
-0.674
1986.458
7.058

0.657
0.703
-0.273
922.842
3.643

-0.379
0.621
0.687
2316.886
21.486

CF

287

189.5 131.8

$$\begin{array}{r} 180^\circ \\ 308^\circ \\ \hline 95^\circ 4' \\ 230^\circ 8' \\ \hline 225^\circ - 5120' \end{array}$$

233

1143

3

412

237

28

9.70 1.31 1.14

0.53 ②

~~14.16~~ ②

+39° 2801

14 42.3

+39 3

~~14.16~~ ② 884

¹⁴ 44.1

14 46.02.7

+38

⁵¹ 39.28

513.1 29.56 VV

37
18

13.1 ②

14.4

mar
-18.4 ± 0.80 CW

inc - AC - 0.06 + 0.11

10.4 10CW 9.5 M2 -

076 +114 VVR

-0.060 + 0.110

848
775

270+115 -153
1.7



af



884.000*

14.000*

46.000*

38.000*

39.000*

270*

130871 14 47.9 +07 01 dN6 -31.38w(3)

G-19968 W 548 9.10 +0.87 +0.72-102E R

~~W 5133~~

W 8616

+702850

S = 0.69
1659
553
921 402
(541)

+70 -84 +23 .025

+70 -73 +15 - .03

+67 -66 +13 .032

-0418 -06866+

-04175 -0645

-621 -06400 → 604

-603 -0744 →

-612 -069 -313

-611 -066

-605 -053 G-2

-599±7, 064±7 Y

-604 -077

-60.

$$\begin{array}{r}
 -0406 \pm 10.4 \\
 -0430 \\
 -043
 \end{array}$$

$$\begin{array}{r}
 54.789 \\
 1.803 \\
 \hline
 56.592
 \end{array}$$

$$\begin{array}{r}
 2.38 \\
 \hline
 21.35
 \end{array}$$

$$\begin{array}{r}
 55.258 \\
 24 \\
 \hline
 284
 \end{array}$$

$$\begin{array}{r}
 284 \\
 1018 \\
 \hline
 509
 \end{array}$$

$$\begin{array}{r}
 25.7
 \end{array}$$

$$\begin{array}{r}
 41.74 \\
 14042 \\
 \hline
 5807 \\
 820 \\
 \hline
 6627 \\
 173 \\
 \hline
 6800
 \end{array}$$

$$\begin{array}{r}
 33.3 \\
 1430 \\
 \hline
 1900 \\
 1902 \\
 \hline
 14.97 \\
 14.97 \\
 \hline
 14.97
 \end{array}$$

$$\begin{array}{r}
 18.85 \\
 1934.32 \\
 \hline
 18.62 \\
 839 \\
 \hline
 19.20 \\
 -2.15
 \end{array}$$

$$\begin{array}{r}
 41.52 \\
 30.8 \\
 \hline
 25.8
 \end{array}$$

He



100

100

100

100

100

100

100

781.000+

022

2.000*

37.200*

-12.000*

-5.000*

9.146*

-3.237*

2.158*

26.915

15.600

3.2

438

38

0233

3.14

-0.235

0.490

2.7

+4

1.303

-1.298

-0.062

-59.9 -51

AM

15 5
-35.096

51 4

-0.040

-0.070

-15.2 -15

-14.639

416.2708 / 4 521 +16 18 01-0

42869 (72944) (constant) 2.2

0736 100 275.95 -122.11
101.91 1.65

[340 100] 593 7896 330
1139 1136

95

120.3009

135"

14 35.9

720 07

155

120.3010

14

38.0

719 55

42.73

Y 3326

44

220.0000

1 W

42.73

AD59352 A, B binary. No
rel. parallax is the mean for
the 2 components

25.7

42.73

120° 3010 in AD59352

A -26.3, 10 W

DMO

Cerbit Miller B.A. 14, 209

25 M (14)
46 S (16)

B -27.0

-28.4 (1)

25 M 10 18.2

AD548, 80 -25 -16

10.2 M 18.6

1 W 1000

-26, 188 AG 13

0.0.8 x 1.34

+15 -35 -16

-0.255 -0.180

+2 -M +4

76.2

MR

-255

17

200 100

-255 -175

225.42

225.0

AD 51.3

u

830 ~~585~~

842

725

813

625

19

Qb

1000 20

1000 20

1000 20

1000 20

1000 20

1000 20

1000 20

1000 20

1000 20

1000 20

1000 20

1000 20

1000 20

1000 20

1000 20

1000 20

1000 20

1000 20

20

155.000*

14.000*

40.300*

19.000*

43.000*

-0.255*

-0.175*

1.800*

22.909

-25.000

0.206

-0.414

15.069

-1.406

0.169

-36.434

0.361

0.894

-14.084

Alb

Y3381

14 56.2

-43 54

-2.352.052

FD1213

284 271

10.16 + 1.31 - 1075

10.14 1.30

10-525 Russell

-267-265

-240 CR

9486

-2831

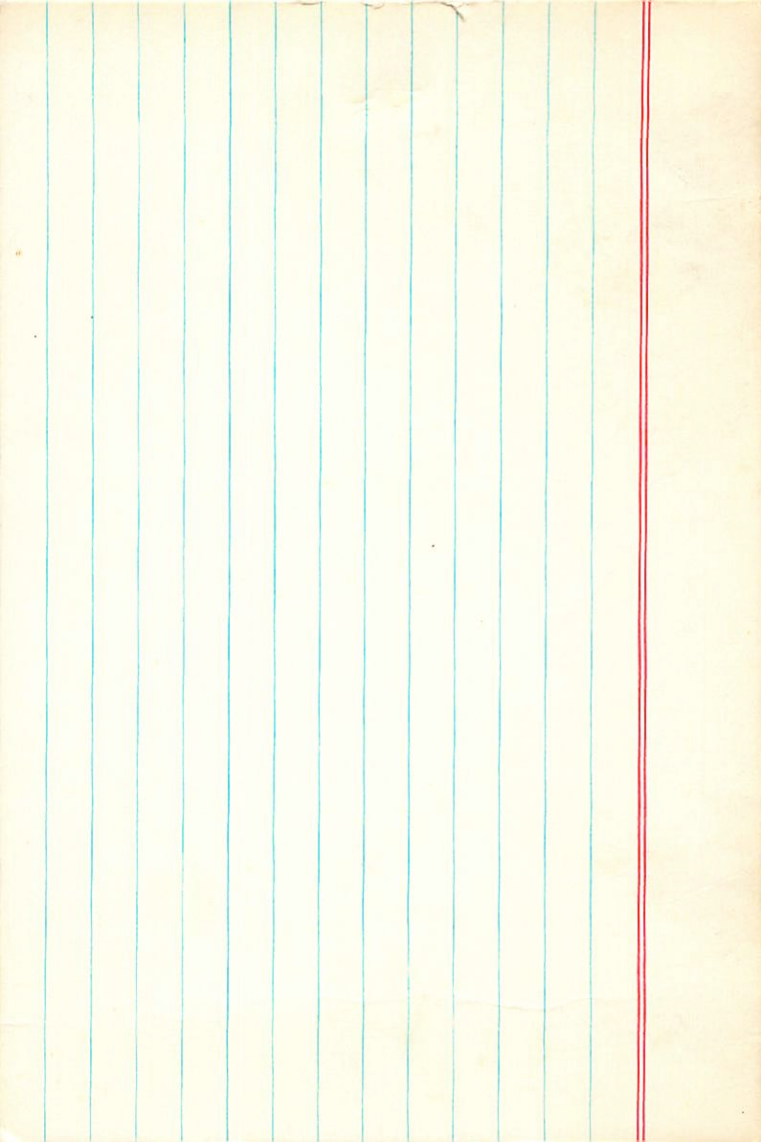
3817

-6519

-6243

05104

-274264 Capu



-10.40H 14 52.9 -10 33⁴⁸
 14 55.3
 14 58.0 2.6 -10 55.65

55

THE 4W
AMO

45M(7)
 54Y(12)
 35C(7)

W8695

HD 132683

GC.20188

+606 -472 00

9.9 MO

+028 ~~966~~

Cam 18-1989

-3 -476

+15 -46⁵ -05⁵
 +14.0

0.000 -0.474
 1

55.000*

14.000*

58.000*

-10.000*

-56.000*

0.015*

-0.465*

0.950*

15.488

14.000

3386.0

(55)

14 58.0 -10 56 1950

HD132683

14 52.9 -10 33 1955

99110

-10°40"

53 46 -11 01 1970

+028.2866 cm

9.44 +1.38 +1.29 ①

85

+016.460

8.62 +0.645 ④

74
645



+16° 27' 22

14

54.7

+16 28

733

14

56.9

+16

17

14

59.1

+16

5.49

28.5

44

22

3W

110

210

33 ± 13 V

+105 - 208 1003

Ci 18.1995 +0.43 - 272

821

8.7: 158 + 17.3

+084 - 250

0 - 4

+ 5

-1

+0.083 - 0.249

17450

-20

+124 - 230 VVR

+50 - 250 2.3

+124 - 230



RS

1000

1000

1000

1000

1000

1000

1000

1000

733.000*

14.000*

59.100*

16.000*

5.000*

0.090*

-0.250*

2.300*

28.840

-2.000

-1.012

-0.502

943 1.43 7-18

0172 3349

+45° 2247

14 55.7

+45 58

314

Y3394

14 57.14
14 59.02.7

+45⁴⁹

+45 35.54

-114 ③

-11.4 ⑩ Jan

W8702

6747

1000

-14.863W

dmo

-6.9 ①
-10.1 ①

Ci 18.1996 +0.26 +0.34

9.2 MO +9.4

+235 +3017 AOR3

MR

774

+0.250

226 314 W

778

+0.255 +0.340

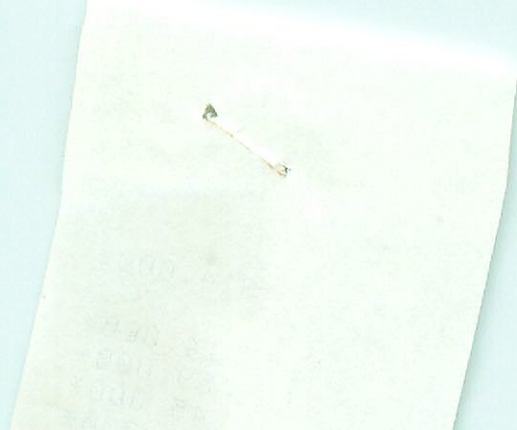
6

004

-11.5

+0.068

99





314.000*

14.000*

59.000*

45.000*

000*

43389

14 59.7

-46 06 RSE

-65.2 ± 1.1

4C

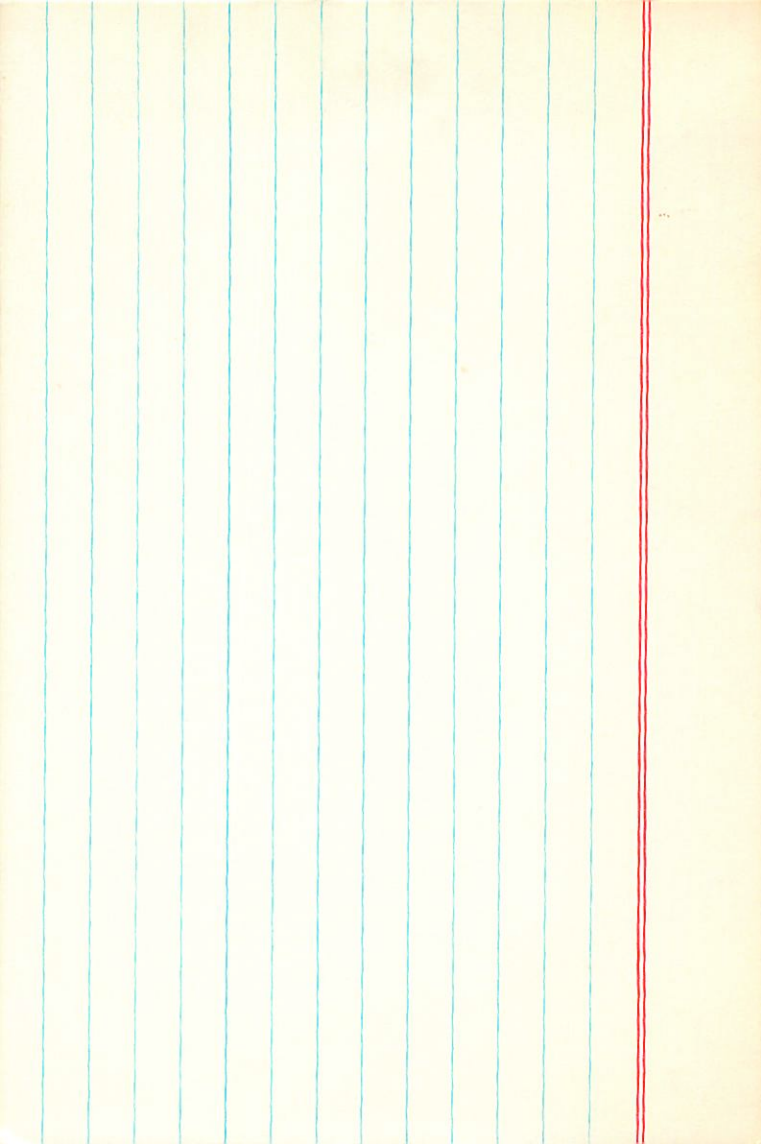
F01215

11577

9.87 + 1.18 (2.25)

-297 - 0.14

/



13332

-203939

15 01.4 -2 40

10.46 + 1.42 + 1.28

9.34 + 92 JM

-28 d 2M
-26.2 ①

+602956

15 02.5 +5 5-0

-68 0 ga

SB(35)

9.87 +1.27 eggs (12")

73403

very poor

As shown by $\sigma = 700d?$

val?

+57 -66 -36 .055
+62 -98 -30 -040

-60 -50 cin
-66 -35 thin
(mem?)

-663 ± 13 m(6)



134585

225713

15 10.2 +00 58 401 36g

147 -28 Carlberg

220.28

18e
02e-

-1.07-

7.4003 15 11.9 -7 11

159

HL581 15 16 58.2 -7 31.73
17.0

-10.1
-30.084W
dms

W5863 43458.144 142M(18)
1354(110)
1732V(10)
1446(16)

W04502

C20-923 -1.32 -0.4 HA-0.089
1212 104 0.000

10.9M-18.1

1212 104

1214 -0.81 CR

VR

1216

9.26 + 1110 R

11.3

7.6

-1230

180

-0.16

8847 -14116
-4565 -7671

-1.2716 -0.0926

-1224

-92

7840 -9998

0654

7836 0323

1.17

-0.99

-15

15.300

-7.500

-1230.000

-80.000

-0.650

-10.100

-0.516

0.387

-0.764

2635.122

28.736

0.667

0.741

-0.075

-4137.370

-29.914

-0.537

0.549

0.641

2898.266

15.015

-204003 15 16.9 -07 32 dms -30.06

W88663

12.56 +1.61 +1.20 -1.32 -0.04 12.20

73458

10.53 +1.60 (2.25) 12.24

W0456

(68

-1214±11 -081±2.0 R

142414)

-1221 -047 M R

1367110)

-1235

Y R

1224110)

-1216

V R

143616)

-1222

9300-9495

1.2493

14945

14084

14835 0323

1228

04194

1220

$$-758 - 653 - 131.551 - 1.320 - 0.040 - 30.08 + 005 + 4 - 150 \\ - 1.001004562 - 003 - 4.735 \quad 4.103 - 29.7 + 19 + 23 \quad .15$$

$$-13.451 + 3 \\ \boxed{+45 - 26 + 4}$$

$$-9 + 47 + 3 \quad 0.17$$

$$\boxed{+41 - 22 + 1}$$

$$-8 + 46 + 3$$

$$0.175$$

$$\boxed{+40 - 20 + 1}$$



R.A.	:	15.300
DEC.	:	-7.550
R.A.	:	%-1224.000
DEC.	:	-92.000
STANCE	:	-0.990
MODULUS	:	6
	:	-15.000

75312

ADS 9617

15

26.1

+30.28

125.77 - 176.48

35.70 1.24 6.80

760 13710 20694 8909

.0542

+134 - 192.14

4.98 +0.55 +0.04 628

+135 - 184

DM=0.26

+0103³⁹ - 188⁴³ N30

+138 - 185²²³³ - 0584

W 8409

+0100 ± 13 - 180 ± 1.2 - 06 7430

48 M(4) 729.4(15) 655(16)

+0104 - 185⁽⁴²⁾

9852 - 7813
H 107 - 6104

+141 - 185

9966
1856
1489 - 6524

-46

0157 - 786 (Caroline) 136 - 186

~~-769 -639 508 862 +124 -192 -6.8 -098 -3.5 -^{1.5}28.7~~

103-075-086 063 ^{1.5}190-^{1.5}763-5.9 +3.8 +4.5 06
₂₇

+7.0-8.2-16.6

-1.4-5.4-12.5

+7.6-10.8-19.2 05

-18 -6 -14

+6.5-6.4-14.8

-12.0 -5.0 -11.5

07

HSIT

511

1020

9851

PEAR 5511

98586

90 14 052 81

214501

258

104

808

204

240

101

R.A. : 12.500
 DEC. : -41.100
 PM. R.A. : X-1200.000
 PM. DEC. : X-1050.000
 DISTANCE : -1.150
 MODULUS : 0
 RAD. VEL. : 12.800

d1 (U) : -0.478
 d2 (U) : -0.118
 d3 (U) : -0.070
 d4 : 3527.343
 d5 : 2.985

d1 (V) : 0.082
 d2 (V) : 0.222
 d3 (V) : -0.444
 d4 : X-0002.242
 d5 : -40.020

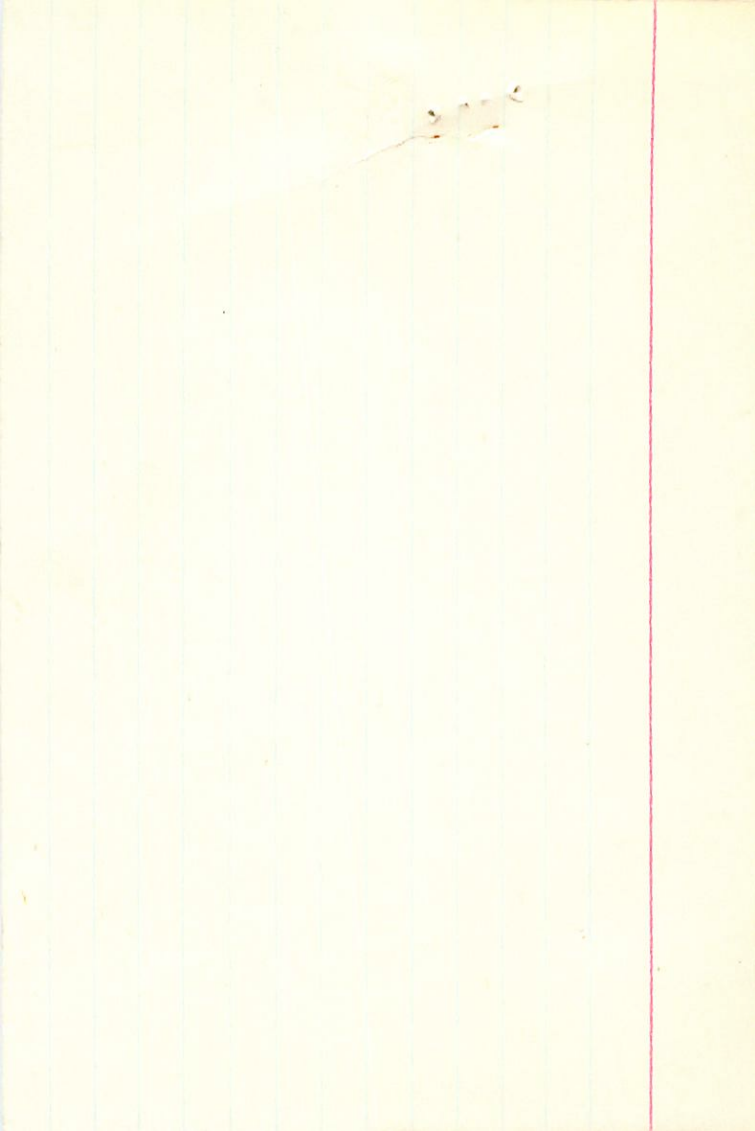
d1 (M) : -0.254
 d2 (M) : 0.222
 d3 (M) : 0.208
 d4 : -280.024
 d5 : -0.332

10.4

268
 236
 1.50
 0.5

268
 240
 240
 271
 263
 236

318
 4102



+11° 28.74

73591.1 34 M(18)
52 ± 6 VV

+4 VV
49 12

15 - 45.3

15 47.5
15 49.8 48.8

+11 20

+11 11
+11 2.94

318

-0.2 16 (unc)
+44 306 W
0.0

291 232
3.0 106 W

may
-7.2 ± 0.9 06 W

McC-AC -0.258 -0.240

9.1 MO + 9.1

+0.038

-0.248

M(18)

-0.260 -0.243
+4 +6

Y

231

42

585
272
860

-0.260 -0.242

8.12

72
15

-260

-229 VVR

-244
-201

-273
-249 (61)

-250 -245 +1.0
0.78

11

162

R.A. :
DEC. :
PM. R.A. :
PM. DEC. :
DISTANCE :
RAD. VEL. :
MODULE :
12.888
11.820
-268.000
-534.000
1.200
50

d1 (U) :
d3 (U) :
d5 (U) :
q1 :
q3 :
q5 :
u :
-0.200
-0.412
-0.435
-0.435
-173.042
-3.155

d1 (M) :
d3 (M) :
d5 (M) :
q1 :
q3 :
q5 :
u :
0.422
0.710
0.320
-1612.0
-35.320
-0.422

d1 (W) :
d3 (W) :
d5 (W) :
q1 :
q3 :
q5 :
u :
0.422
0.710
0.320
-1612.0
-35.320
-0.422

R.A. : 15.800
PM. DEC. : 11.050
PM. R.A. : -268.000
DISTANCE : -236.000
MODULUS : 1.500
RAD. VEL. : 20

q1 (U) 0.86 -0.500
q2 (U) 435 -0.419
q3 (U) : -0.622
dU : -0.662
U : -173.045

q1 (V) 24 0.659
q2 (V) : 0.710
q3 (V) : -0.250
dV : -1615.05
V : -32.350

102
q1 (W) : -0.625
q2 (W) : 0.331
q3 (W) : 0.707
dW : 409.201
W : 7.811

751

+1402955

15 51.9 +14 26

13007

1877(2)

9.70 +1.07 +0.88(2)

+0.415(2)

math.

-11.8

126
125

9.45 1.20 123 9.05 0.52 2000 *

+62° 1446

15 58.5 +62 3 875
15 59.2 +61 55
15 59.9 56.2 +61 47.33

31 ± 10 VV

36.10

Reg. Pitt. -46 ± 0.3

94 52 870
923
870

9.6: 190 + 8.3

8.0

10

470 - 452 + 1033

876
169.9
67 20

* Found by AGA. Baby J. after survey concluded.

16.25

26.2 1 m 48m
200W

-0.460 + 0.030

270 + 30 27.0

26.2 1 m 48m
200W
26.2 1 m 48m
200W
26.2 1 m 48m
200W

-460 + 0.030
-460 + 0.030
-460 + 0.030
-460 + 0.030

-456
+ 33
-467

103

+35.2

Y3655

W926

W-20-96

8.58

10.6410

70.260-0.580

RAD. VEL. : -36.780
MODULUS : 52
DISTANCE : 1.700
PM. DEC. : 33.00
PM. R.A. : 00

U : 18.935
QU : 0.547
D3 (U) : 0.023
D2 (U) : 0.024
D1 (U) : 0.028

QV : -13.00
D3 (V) : 0.734
D2 (V) : 0.352
D1 (V) : 0.025

M : 4.424
QM : 1328.622
D3 (M) : 0.088
D2 (M) : 0.308
D1 (M) : 0.027

and

144628 16 05.7 -56 19 R32

43652

$n(I) = 11$ (or)
 15.62
 1.19
 0.54
 0.855
 0.78

$7.13 + 0.87 + 0.455(2)$
 $6.54 + 0.375(2)$

716(7)

$\Delta(B-V) + 15$
 $\Delta(U-B) + 4$

u v w

$-37.0 -14.2 +15.5$
 $-4 +5 +15$

+37.9 -0.163 +0.329

9318 16 09.8 405 38 12.1 4144-152 460

111 ②

168 2100

1755

33242

12-11-11

109

Shed 14 10.01 68- 5-2

1045
-325
24
-37
255

W : -15.204
DM : -250.088
3 (M) : -0.285
2 (M) : 0.244
1 (M) : -0.208
p1 (M) :
p2 (M) :
p3 (M) :
q1 : -25.252
q2 : -1353.18
q3 : 0.883
q4 : 0.125
q5 : -0.444
p1 (U) :
p2 (U) :
p3 (U) :
q1 : 2038.4
q2 : 0.388
q3 (U) :
q4 (U) :
q5 (U) :
RAD. VEL. :
MODULUS :
DISTANCE :
PM. DEC. :
PM. R.A. :
DEC. :
R.A. :
53.252
46.458
252.008
-10.008
1.350
12
3.000

R.A. : 23.950
 DEC. : 46.450
 PM. R.A. : 929.000
 PM. DEC. : -10.000
 DISTANCE : 1.350
 MODULUS : 19
 RAD. VEL. : 3.000

q1 (U) : 0.874
 q2 (U) : 0.293
 q3 (U) : 0.389
 dU : 2636.442
 U : 50.259

q1 (V) : -0.444
 q2 (V) : 0.152
 q3 (V) : 0.883
 dV : -1353.8
 V : -22.559

q1 (W) : -0.200
 q2 (W) : 0.944
 q3 (W) : -0.262
 dW : -650.686
 W : -12.90

11.

8.35
 116
 3.25

8.35

318 906 600

15 49.8 + 11 03

-9.4

①

4102974

9.38 + 1.40 + 1.27 ②

-1.9

③

40

+0.65 ④

-260 -229 100 R

-258 -240 100 K

-244 -243 100 L

-271 -240 100 R

-243 -236

-268

236

150

-0.5

+0.4



R.A. : 15.500
 DEC. : -41.100
 PM. R.A. : % -1586.000
 PM. DEC. : % -1020.000
 DISTANCE : -1.150
 MODULUS : 6
 RAD. VEL. : ~~15.300~~

q1 (U) : -0.478
 q2 (U) : -0.118
 q3 (U) : -0.870
 dU : 3277.343
 U : 5.982

q1 (V) : 0.665
 q2 (V) : 0.599
 q3 (V) : -0.446
 dV : % -6662.54
 V : -46.060

q1 (W) : -0.574
 q2 (W) : 0.792
 q3 (W) : 0.208
 dW : -580.654
 W : -0.235

12.500	:	R.A.	:
-41.100	:	DEC.	:
N-1586.000	:	R.A.	:
N-1050.000	:	DEC.	:
-1.150	:	DISTANCE	:
0	:	MODULUS	:
15.300	:	AD. VEL.	:

-0.478	:	(U)	1p
-0.118	:	(U)	2p
-0.870	:	(U)	3p
3577.343	:	UB	
5.985	:	U	

0.005	:	(V)	1p
0.009	:	(V)	2p
-0.440	:	(V)	3p
N-0000.000	:	VB	
-40.000	:	V	

-0.574	:	(W)	1p
0.595	:	(W)	2p
0.508	:	(W)	3p
-0.080	:	WB	
-0.505	:	W	

+35.2774 14 1.2 +35 03 59
 16 2.9 +34 55
 16 4.8 46.5 +34 47.78
 Y3655

W9268 49YK(7) +8.283W
 38V (10) dmo

W20-968 +.26 -.58 10.6MD

+0.260-0.580