

20305

3

13.6

+13

40

122

7.16
6.33
8.49

+130530

8.49 + 161 + 1.685 (2)

7.54 + 0.70 (2)

+29.7 / ~~1000~~

+10° to +15° y wh

~~1000~~ 1001 - 009 GL
~~1000~~ 1006 F104 →

from

~~1006~~ 1021 Random

-009

~~1006~~ 1024 GL

~~1006~~ 1027 F104

~~1006~~ 1022

~~1006~~ 1024 F104 two

20305.000*

3.000*

13.600*

13.000*

40.000*

-0.007*

0.024*

9.400*

758.578

39.700

0.017

0.792

44.436

0.105

0.167

86.044

0.053

-0.588

16.686

w(-0.1)

20622 3 16.3 -14 26 μ 12 +84.38 w(4)

-140646 7.6

$\frac{1-0.1}{15} \cdot 0.55$

+025±12 +012±9

+67-25-51
~~+91 +6-27~~ .005

+86-30-34 0025

+0024 +005 Cap 3/25
+0021 +0025 564
+0305
+033 000

7.74 +1.28 +1.19 (1) ?

7.19 +0.48 (4) ?

681
615
11
7.95

756 655 -248 869 +825 +012 - ~~1111~~ 003921057 ⁺⁴¹³

-019 002 016 -002 -081 055 +81.7 +54 +62

+42 +74 +28

~~+73 +4 -35~~

~~+38 +29 +32~~

~~+91 +6 -27~~

+38 +29 -11 005

~~+67 -25 -51~~

~~+27 +40 +40 003~~

~~+44 +104 002~~

+27 +89 -2 003

+22 +96 +2 0025

~~+86 -30 -34~~

28622.000*

3.000*

16.300*

-14.000*

-26.000*

0.033*

0.000*

7.950*

7.7

389.045

344

84.300

0.082

0.561

+75 78.969

-0.104

-0.203

-53 -57.681

0.083

-0.803

-39 -35.306

20766 }
20807 } A
CC 3964 } B
3978 } A

B 3 16.7 -6.2 46
A 3 17.1 42
5.26 42
5.53
5.51

1006/10

A 260 +11.6 6L (4)
+11.3 ± 0.4 C
B 160 +11.5 6L (4)
+11.3 ± 0.5 C (5)
+11.8

442
42
+0.54
+0.58
+0.63
+0.62
Σ 25 (1) 154
- 6.10 } Cap
- 6.20 }
- 4.99 }
Σ 25 (1) 154

148
+1.334 +6.50 CC
+1.328 +6.55
+1.324 +6.64 Cap
+1.332 +6.69 CC
+1.330 +6.68 Cap

4701-5 333 376
+58 -39 +13 .100
+70 -46 +19 .082
+77 -50 +21 .075
+74 -48 +19 .079

500 475
468 640
325 2913 B
277 455
2922 2913 B
658 455
005 0.0 10ff C (19)
+114
+1942 +6.53 130
+1942 +4.6 +4.57 ± 0.3
+1953 +6.70 130 B
+1952 +6.61 ± 0.5

356 269 603
195
also 11000409 1123
1123
1123

A
95 C (7)
1947 660 1304
1953 662
13391 11.8
+1343 +6.59

20766.000*

3.000*

16.700*

-62.000*

-46.000*

1.343*

0.659*

0.400*

12.023 966

11.800

5.957

-0.108

70.343 563

-3.235

-0.671

-46.800 392

2.082

-0.734

16.369 114

1.336 661

1.340 158

-879 45-8

1.332 419

1.336

1940 4619

1930 258

3.250
567.700
2922.000
658.000
0.050
10
11.400

0.525
0.831
-0.182
5352.844
52.705

-0.667
0.270
-0.694
-2665.813
-35.192

0.528
-0.486
-0.697
1260.618
4.959

3.250
-67.700
2913.000
655.000
0.000
10
11.800

0.525
0.831
-0.182
5332.521
51.182

-0.667
0.270
-0.694
-2658.847
-34.779

0.528
-0.486
-0.697
1258.976
4.370

HD 20766

20807

4 1004
201.0 84 (20)

205.0 83 (17)
826

3 171

20808
16 657
557

20809
404 219
347

5.49 + 0.65 = 70.55
5.30 + 0.23 = 33
5.01 + 0.59 = 487

5.23 + 0.61 = 0.00

5.04 + 0.22 = 33

2893
671

A (B-d)

A (B-d)

-62

20810

404

347

70.55

33

33

178

152

177

177

177

177

196

284

289

211.16

0.0835

0.39

37

37

295

297

297

297

297

284 2579

257

211.16

0.0835

0.39

37

37

295

297

297

297

297

R.A. : 3.300
DEC. : -62.700
*M. R.A. : 2593.000
*M. DEC. : 675.000
DISTANCE : 0.150
MODULUS : 11
AD. VEL. : 12.000

q1 (U) : 0.516
q2 (U) : 0.850
q3 (U) : -0.105
dU : 5628.182
U : 59.043

q1 (V) : -0.667
q2 (V) : 0.322
q3 (V) : -0.672
dV : % -2731.977
V : -37.337

q1 (W) : 0.537
q2 (W) : -0.417
q3 (W) : -0.733
dW : 1695.398
W : 9.370

20855

3

17.7

-58

10

7.43

1014

-9.5 ± 0.5

+0084 ± 9.0
+0043
+5054

+102 ± 6.4
+111
+119 + 46P

9(15)

+1.05

3994

42.297

1906.3

-58

9

40.98

1902.7

-367

41.920

7.44 + 1.06 + 0.85 (2) - 4.92
45.80

7.00 + 0.38 (2)

+0071 + 110
+0076 + 1125

1060
+1064 + 110

6.085

35.902

41.987
+35

42.022
-0.16

42.116
+0.05
1.73

6.7

32.4

1.12

2.096

+1.176

69.14

1930.72

26.95

42.19
-51

42.70
+01

42.69

40.3
-59
40.89

7.42

38.7

36.0

8248

40.79

+4.01

44.80

1946.7

20855.000*

3.000*

17.700*

-58.000*

-10.000*

0.064*

0.110*

6.100*

165.959

-9.500

0.603

-0.038

100.387

-0.007.

-0.644

4.927

-0.024

-0.764

3.266

+0198=7.5
 +0197
 -067=7.1
 -058
 +8.5
 +11.6
 20727 3 17.9 +08 51 8.3 262 +11.6
 1850

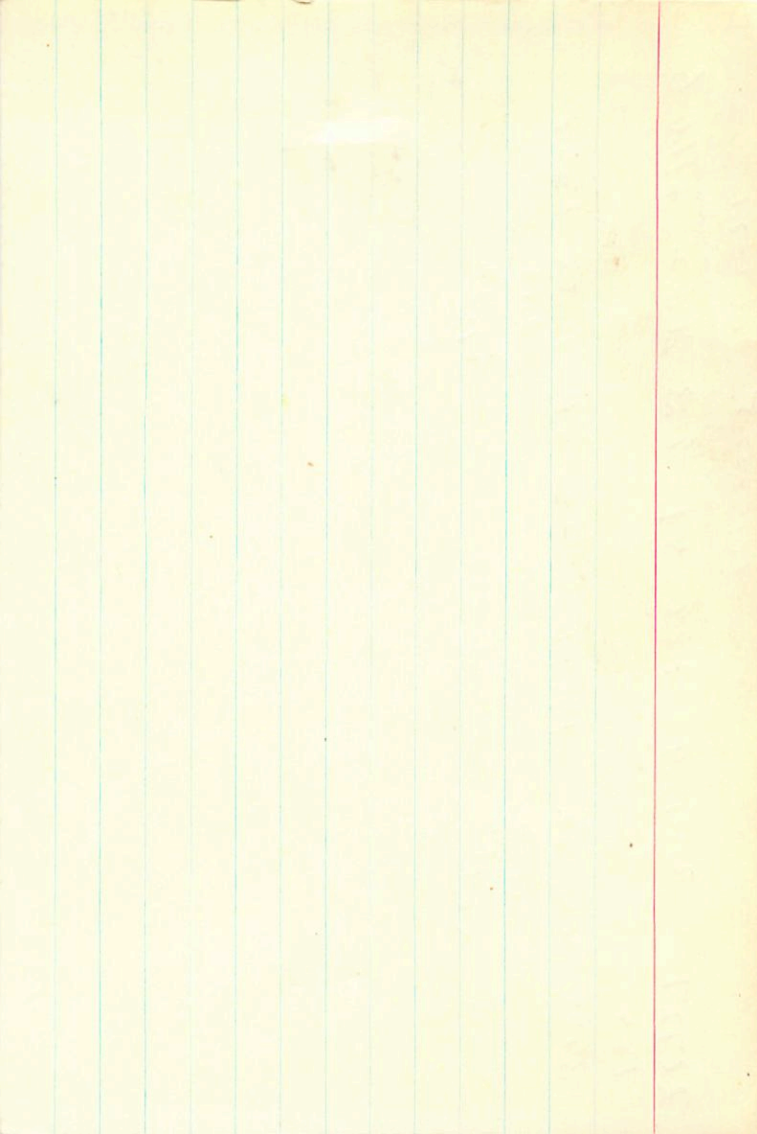
3998 54.272 1909.0 +8 51 16.83 1906.9
 -812
 53.460

846 427 208
 8.46 436 185 358 ① 18.00 1937.01
 53.990
 25
 846 427 2195 845
 54.018 250
 17.96

432 199 346

2025

100

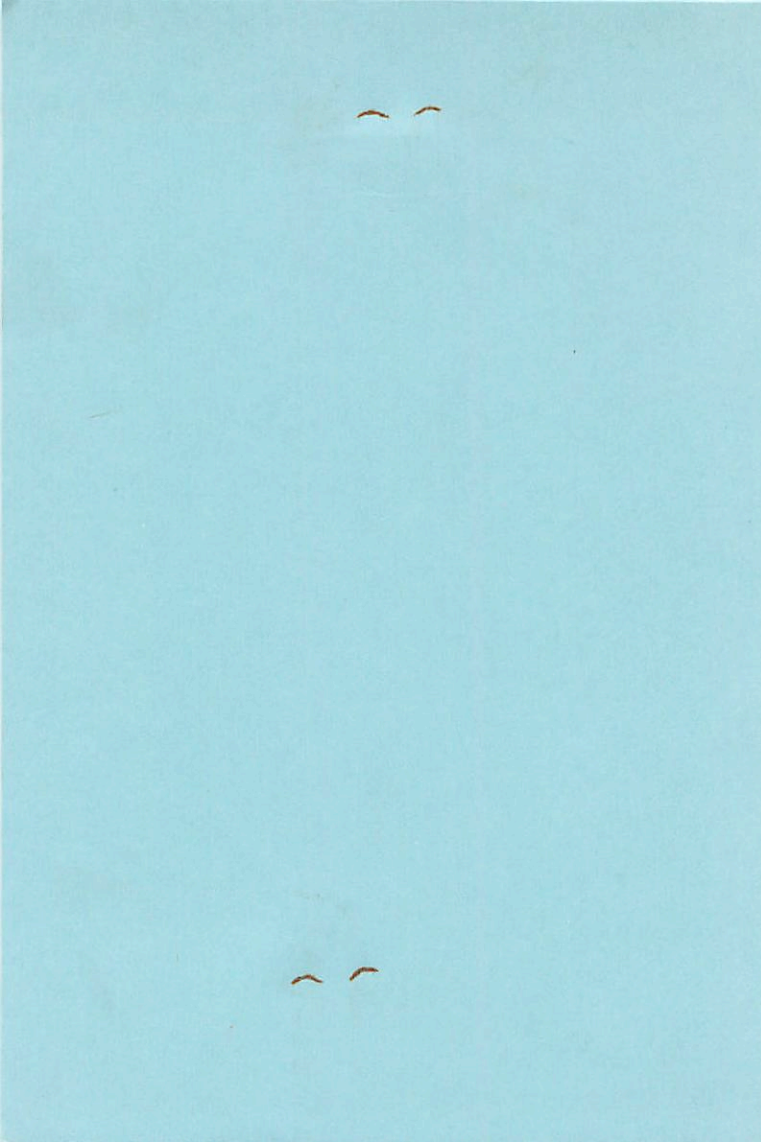


1-1 20.7 20.7 16 9 + 6.0

12.08 0.81
546
663

35-141

7440 9866 1576
6879 7154 - 2714



6.16
+12.3
+26.5 = 254

-0.3
-6.5

3 27.2 - 6 - 5.8

Depos 5.98 + 1.02 = 7.00
+ 0.88

Bill's
12.17

10.80
28.01 1895.8
5.42
22.5

-10.7 = 5.8

-0.64 - 0.95

1897.3064

337
366
12.024

36.61 1933.74

-0.94

12.00
4.11
2.46
2.27
2.43

1933.80

26.09
2.22
28.31

58.555
13.582
12.137
12.121

161

12.171
1.1421

21665.000*

3.000*

27.200*

-6.000*

-53.000*

-0.094*

-0.095*

5.000*

100.000

26.500

-0.473

0.663

-29.711

-0.034

-0.139

-7.039

-0.420

-0.735

-61.505

36 Per 21770
4710

3 29.0 +45 53 -45.38

HR1069

5.30 +0.39 -0.02 - F411

W1918

-052 -068 GC

25A(28)

-089 -069 (u(2))
-050 -068

|

|

791 612 718 696 -050 -065 -45.3 -049 -32.5 - 223

040 039 -031 -030 332 038 -31.5 -19.3 -24.9

~~-16.7~~

+10.9 -21.4 -52.8

-42.6 -24.7 -30.7

001

017

-7.6 -23.6 -40.0

-38.8 -15.7 -21.5

03

36PK 3 29.0 +45 53 4A9 -45.36
 HR1069 5.30 +0.39 -0.02
 W1948 Fri 14 -052 -067 GC
 -050 -071 P
 -051 -069

29A(28)

35 ps.

1.6 -39.8
 0.7
 12.4

+478	-152	+857	-1155	+0628	-0527	-18-38.8	-40.6
-665	+558	+494	+1607	-1825	-0218	-0.8 -22.5	-23.3
+574	+807	-140	-1387	-2640	-4027	-14.1 -6.3	-20.4

791 612 718 656 -051 -020 -45.3 -050 -32.5 -232
040 040 -031 -031 336 043 -31.5 -19.3 -24.9 024

-5.3 -23.1 -42.2

-40.5 -24.0 -11.3

-10.5 -23.8 -35.6 035

-39.8 -23.4 -5.0

6 48-41 3 31.9 + 38 08 -10.7 ⑦

+37.791

0720

10.23 419 205 270 2.501 ⑧

425

159

10.23

2(64) 000

2² 461

44.69

23

15.30

16.23
530
493

4007) 085

084-085

107
85

493

~10.7

R.A. : 3.500
DEC. : 38.150
PM. R.A. : 107.000
PM. DEC. : -85.000
DISTANCE : 4.930
MODULUS : 97
RAD. VEL. : -10.700

q1 (U) : 0.478
q2 (U) : -0.073
q3 (U) : 0.875
dU : 219.982
U : 11.935

q1 (V) : -0.665
q2 (V) : 0.621
q3 (V) : 0.415
dV : -515.437
V : -54.348

q1 (W) : 0.574
q2 (W) : 0.780
q3 (W) : -0.249
dW : -85.663
W : -5.635

24.1782

~~28841-240250~~

~~3364-2412~~

f112
115②

0064-121 Carbonyl

088-121

001 141

~~0055-130~~

96

121

8.36

f115

R.A. : 3.600
DEC. : -24.200
. R.A. : 96.000
. DEC. : -121.000
STANCE : 8.360
MODULUS : 470
. VEL. : 115.000

q1 (U) : 0.459
q2 (U) : 0.747
q3 (U) : 0.482
dU : -237.794
U : -56.339 *-138*

q1 (V) : -0.663 *-571*
q2 (V) : 0.649
q3 (V) : -0.373 *+40*
dV : -647.273
V : -347.088

q1 (W) : 0.591
q2 (W) : 0.148
q3 (W) : -0.793
dW : 160.347
W : -15.826

23322

3

40.4

-55 50

66W

~~66W~~

86.570

030

8.41 549 275 423

8.52 340

344

UDD7 004 P No

22879

3 37.8

-3 22

1291

-3.592

15.55 42.8

120.3 (11)

~~15.55 42.8~~

15.55

on
the
top
of
the
hill

0464-715 Carbury

720
25.81
25.73

648 369 120 273
619 370 115 277
350 120

695-215

on
the
top
of
the
hill

695
-7.93

668 813 677 509

top
of
the
hill

120.3

3.70
67

on
the
top
of
the
hill

~~15.55 42.8~~

R.A. : 3.600
DEC. : -3.400
. R.A. : 695.000
. DEC. : -215.000
STANCE : 1.930
ODULUS : 24
. VEL. : 120.300

q1 (U) : 0.459
q2 (U) : 0.527
q3 (U) : 0.715
dU : 971.800
U : 109.707

q1 (V) : -0.663
q2 (V) : 0.739
q3 (V) : -0.119
dV : % -2934.322
V : -85.653

q1 (W) : 0.591
q2 (W) : 0.420
q3 (W) : -0.688
dW : 1515.952
W : -45.955

(20.3 14)

22879 G6001

3 37.8 -03 22

Yale 763

+114.28 w(3)

G-C 4384

+1497 6.68 +0.53 +1.57 slay

w 2026

495 6.68 +0.55 -0.09 Roman F-9 E

~~495~~
R₆ 260 +502

Complex

w(+3.4)

Y +697±8 -212±6

697

G-C +701 -213

-215

037 +119 -53 -25

1167

+80W 27M 36

050
030

120.3

22.1 (8)

57.7 (10)

18C (4)

+116 -122 -22 -030

+112 -74 -43.050

32.6

+0468 ± 8.0 -213 ± 8.0
+0460 -200

49.176 1402.9 -3 22 29.07 1403.5

2.204
19.84

46.972
19.23

78.19 1434.87

53.58
1

24.6
1

11.13
1

25.174
1

25.42
1

25.3
1

25.40
1

877

34.4

30.6

25.36
-6.13

31.7

422
1450

23.254
15.115
48.369
22.21
-4.42
17.94

41

~~45.53~~
~~48.47~~
-325

1433.80

R.A. : 3.600
DEC. : -3.400
R.A. : 696.000
DEC. : -215.000
ANCE : 1.670
ULUS : 22
VEL. : 120.300

(U) : 0.459
(U) : 0.527
(U) : 0.715
dU : 973.971
U : 107.086

(V) : -0.663
(V) : 0.739
(V) : -0.119
dV : % -2937.461
V : -77.667

1 (W) : 0.591
2 (W) : 0.420
3 (W) : -0.688
dW : 1518.749
W : -50.055

Subsequent? cleaning

~~Handwritten~~

H0 22879

3 37.8 -0.3 22 d14 t114.28 w(13)

w 2028

6.68 + 0.55 - 0.09 FSE R t201 Guard

Gc 4854

S=1.7

4763

2M

213 (44)

+201 -213 GC

330 2M

29 370 102 360

+678 ± 10 - 194 ± 2 CR

5.15

1.26
4

1.69

1.57
1.80/9

- 1.56

- 22M (8)

(10) RES

13C (6)

3.6

- 3.4

034

520 574 0 1 701 -213 114.2 0 0 -1.010

676 -196

23
-929

-575 0 308 0 -2.735 1.505 114.2 66 94 05

-2.650 1.838
+1143 2 -20

+108 -69 -41
268

+20+126 -17

1 116 -9
5 -54 -15
-10 -22 -9
-1 2140 -23 04
+112-80 -33

0 123-11 +13 212-1 -19 05
0-63 -17 296-62 -40

-43 170 -40 025

+127 -127 -10

-4 150 -19
-21 -76 -30

37 -28 -19

1 106 -5
6 -51 -19
-11 -20 -5

-70 189 -50 020

+137 -157 +7

-6 166 -23
-24 -85 -38
61 -31 -23

650-15
22579

3 37.8 03 22 120.3 (64)

13.592

6.71 359 131 276 (1)

665 369 170 273 2.580 (1)

1507 +441
60
801

664 365 124 274

3 37.8 - 3 22 F9D

22879

+132.0

+137

-134

178

6.68 + 0.555 - 0.095 (4)

(3) 47,71
3 Perry

1353 .149 .204 2.579

363 132 251
358 140 227

284
185
142

+43

212 133

21

169	200	691		H
				1
[15]	(Aug)	[100]	100	H/W

23524

3 446 751 553

8.76 471 774 266 ①

$\Delta m = 0$

705

-0.36

380

$\frac{m}{c} = 0.244$

4540

$\frac{3}{5.71}$

23 588 3 43.3 - 26 01

8.19 563 483 232 ①

259

216

23748

3

449

31 00

585.0

31458

17639

Handwritten scribble

NO TB W

4006-008

8.30 1.03

624-008

1883

Handwritten scribble

5610 15.0

10.00
8.50

~~0.684~~

R.A. : 3.750
DEC. : -31.000
R.A. : 24.000
DEC. : -8.000
STANCE : 10.000
MODULUS : 1000
VEL. : 85.000

q1 (U) : 0.429
q2 (U) : 0.807
q3 (U) : 0.405
dU : 11.234
U : 45.649

q1 (V) : -0.660
q2 (V) : 0.586
q3 (V) : -0.470
dV : -86.582
V : -126.515

q1 (W) : 0.617
q2 (W) : 0.066
q3 (W) : -0.784
dW : 57.652
W : -9.026

954

Jul 3

110

20

R. A. : 3.750
DEC. : -31.000
R. A. : 18.830
DEC. : -1.440
DANCE : 10.000
DULUS : 1000
VEL. : 85.000

1 (U) : 0.429
2 (U) : 0.807
3 (U) : 0.405
dU : 27.324
U : 61.739

1 (V) : -0.660
2 (V) : 0.586
3 (V) : -0.470
dV : -54.487
V : -94.421

1 (W) : 0.617
2 (W) : 0.066
3 (W) : -0.784
dW : 46.736
W : -19.942

444

898

126.5

0.6

126.5

8

00.63

23748

3 448 -31 00

NO (III) WF 2

NO (III) WF 2

3/1/88

532 720 200 931

54.57

7:54 AM

15.5

8/1/84

7:20 PM - 4:00 PM

4000-1005 Conting

620-009

24

1825

3 51.0 +52 17 612

24341

1430¹⁰

10760 149.00
1630 1.07

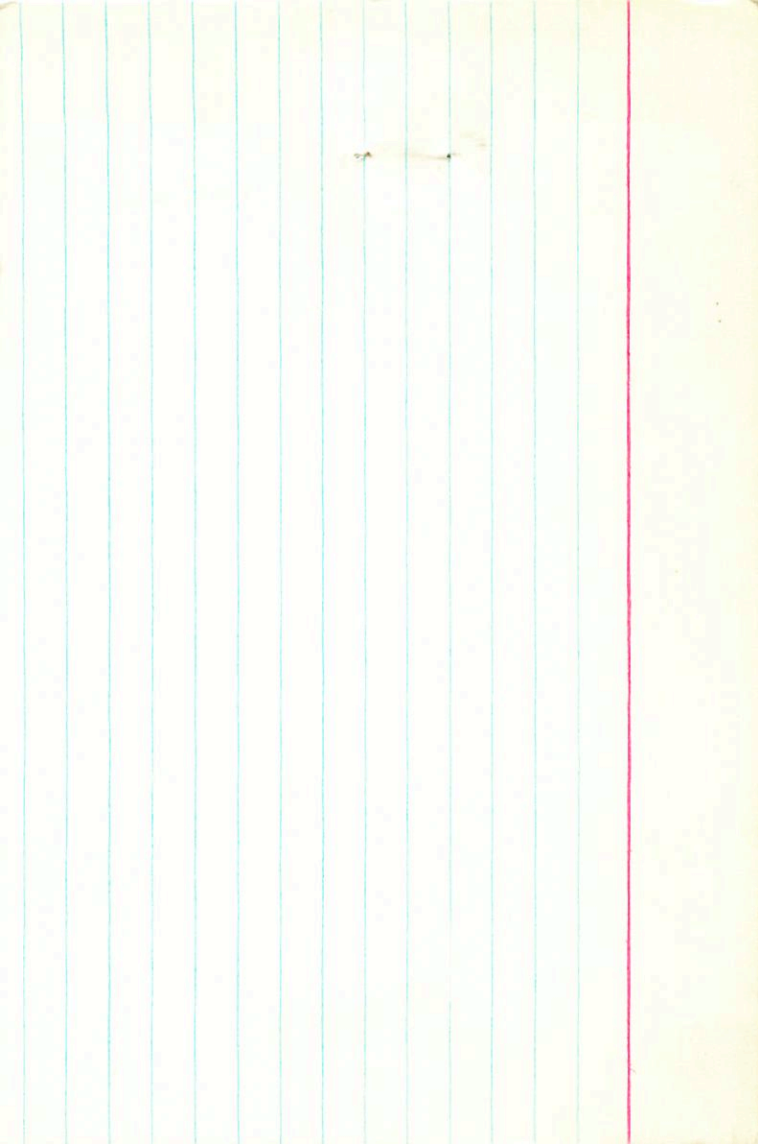
2.52 + 68 + 11

17.87 685

+155.9 6

+0127 -152 66

+0128 -154 20012



16309

+0127 ± 4.9
+0128

-153 ± 4.0
-155

142-3 (3)

24341

3

51.0

+52

17

7.6

612

+155.98

4690

3.260

1848.2

+52 16 31.27

1895.1

-0.658

8.40

2.602

39.67

34.0

9.77

5.5

1927.6

53.0622

30.50

653

2.830

25.75

628

1.87

34.05

33.14

989

37

7449

+0.500

3839

37.2

3.205

32.17

1996.87

215

28

42.1

215

21.89

R. A. : 3.850
DEC. : 52.300
PM. R. A. : 108.000
PM. DEC. : -149.000
DISTANCE : 6.000
MODULUS : 158
AD. VEL. : 142.500

a1 (U) : 0.409
a2 (U) : -0.317
a3 (U) : 0.856
dU : 351.661
U : 177.690

q1 (V) : -0.657
q2 (V) : 0.549
q3 (V) : 0.517
dV : -593.174
V : -20.337

a1 (W) : 0.633
q2 (W) : 0.774
q3 (W) : -0.016
dW : -348.261
W : -57.536

24570 3 52.3 +23 13 9100

516 w

Strong hair
Nepher w/e

$$8.03 + 0.33 \textcircled{2}$$

8

EU 035

+42.46

$$\begin{array}{r} +082 - 3 \\ +092 - 1 \\ \hline +070 - 005 \end{array}$$

$$\begin{array}{r} 444 \\ 834608 \\ \hline 943 \end{array}$$

+070 - 005 AG 103

(5m) 0320

$$+075 - 003$$

$$\begin{array}{r} 1137 \\ 912 - 212 \\ 923 - 215 \\ \hline 268 - 512 - 1035 \end{array}$$

PF

330

$$+075 - 005$$

297

24570.000*

3.000*

52.300*

23.000*

13.000*

0.075*

-0.005*

8.000*

8.00 ✓
409.7 398.107

42.400

0.141

0.904

+96 94.292

-0.251

0.182

-96 -92.095

0.211

-0.387

+70 67.410

24570
+220596
2245

3 523 +23 13 8.6 g/10 +42.48

300

+082
0
+001
-3
1001

W2337 02.9 +32 50 9.2 div4 +1120
+1120

+320719

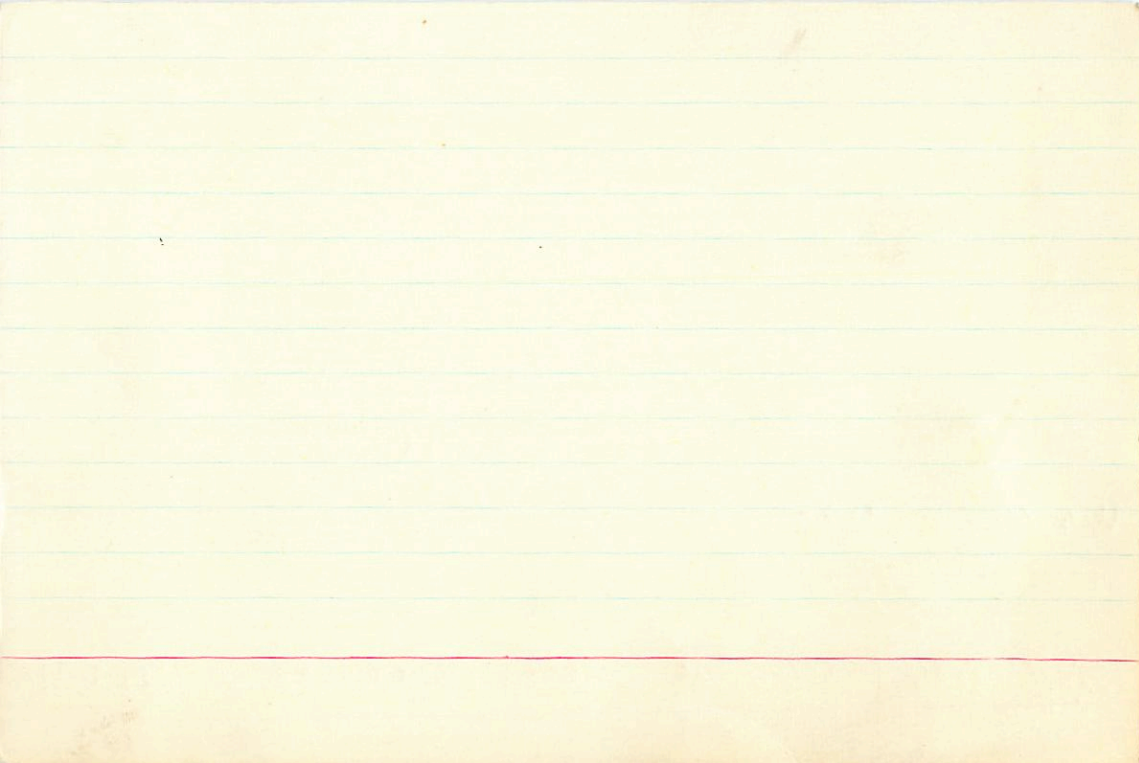
9.99 +98 +70 +6715006 -80752 ✓

1000591

+650

-797 M(8)

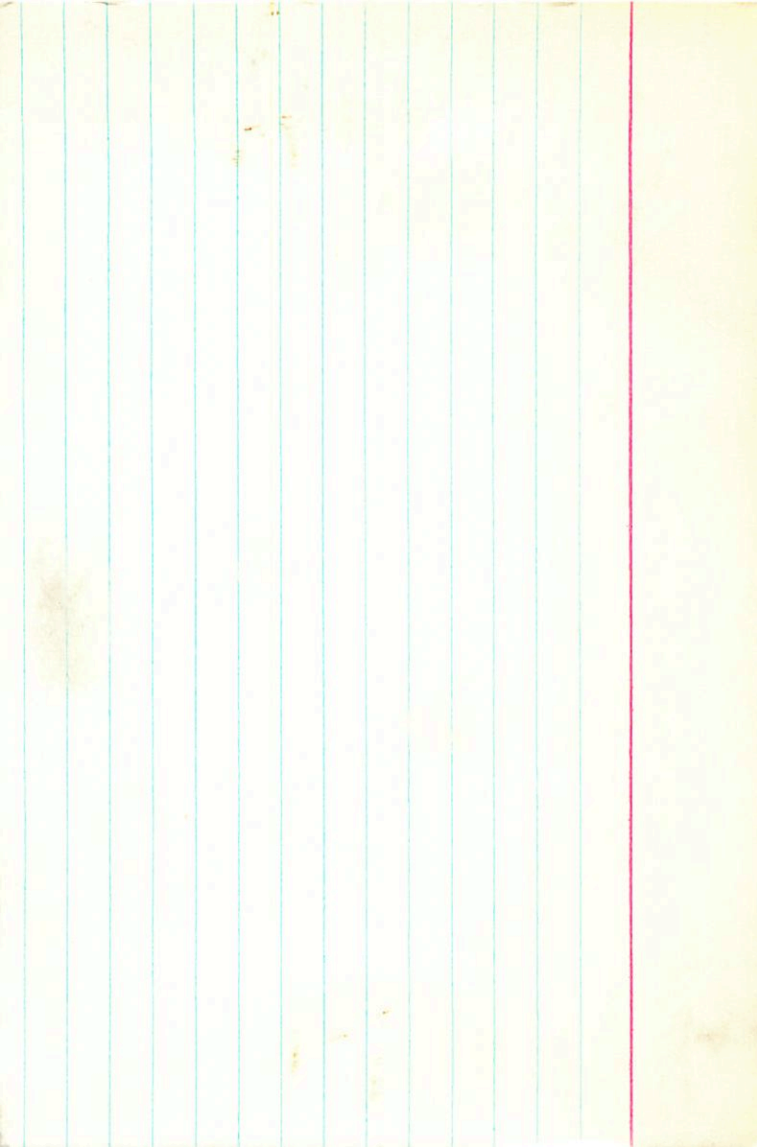
SDM(4)
13 v(12)



+320719 4 03.0 +32 50 d/14

R020591

439.25



26297

4 06.8 -16 01

-160791

w2380

7.43 +1.105 +0.70 $\Sigma 95(3)18''$
 $\delta = .15$

+0030 -004 Carbury

+043 -004

+043
+046/006

102

+13

dG(+15 c.c(12)

GIR 1117 +15 ±3

+042 ±14 -018 ±10

45
-4
7.5
+13

4710

q1 (M) : 0.673
 q2 (M) : 0.283
 q3 (M) : -0.687
 PM : 132.547
 M : 41.50

637

q1 (U) : -0.648
 q2 (U) : 0.671
 q3 (U) : -0.360
 DU : -145.575
 U : -60.022

446

q1 (U) : 0.358
 q2 (U) : 0.685
 q3 (U) : 0.635
 DU : 60.328
 U : 31.187

R.A. : 4.100
 DEC. : -16.000
 PM. R.A. : 45.000
 PM. DEC. : -4.000
 DISTANCE : 7.900
 MODULUS : 380
 RAD. VEL. : 13.000

26.757

16.751

4 068 16 00

05/6 10 00

+120 0

+133
+12.5

1 060 496 014 444
1.2577 9/0 0 0 0
1264 801 082

① 0 0 0
② 0 0 0
③ 0 0 0

750 757 235 695

690 447

420

Carroll

+0031-003

048-003

416
03

+1200

46.048

7 10.5

46

28

1994
1994

19901

909 1205

1452

10021 ~ 037

907 989 921 352

031-037

8.89 1.55

431

28145 39.53

37

10.485

2.58 1.25

445

R.A. :: 4.150
 DEC. : 6.450
 PM. R.A. : 31.000
 PM. DEC. : -37.000
 DISTANCE : 10.450
 MODULUS : 1230
 RAD. VEL. : -145.000

q1 (U) : 0.347
 q2 (U) : 0.390
 q3 (U) : 0.853
 dU : -17.757
 U : -145.503

q1 (V) : -0.646
 q2 (V) : 0.759
 q3 (V) : -0.084
 dV : -227.377
 V : -267.495

q1 (M) : 0.680
 q2 (M) : 0.521
 q3 (M) : -0.515
 dM : 7.859
 M : 84.398

1
bb9c

4 0.6.8

11

10

413.8
71350

159
294.90
M

0.74

R. A. : 4.150
DEC. : 6.450
PM. R. A. : 28.450
PM. DEC. : -39.530
DISTANCE : 10.500
MODULUS : 1259
RAD. VEL. : -145.000

q1 (U) : 0.347
q2 (U) : 0.390
q3 (U) : 0.853
dU : -26.605
U : -157.151

q1 (V) : -0.646
q2 (V) : 0.759
q3 (V) : -0.084
dV : -228.722
V : -275.704

q1 (W) : 0.680
q2 (W) : 0.521
q3 (W) : -0.515
dW : -6.562
W : 66.468

GC 5708

①

885
855

+412
35
507

+210607

4 11.6 +22 14

2260

G8-16

LFT327

110
2100

470

-290

51

1334

9.22 +0.41 -0.20 Damp

9.54 326 075 277 2.596

.63 134° ① Gichu

555

M₂ 600s

M₃

wt

IT (mg) = -0.003

+0.425 -0.285 meridional (Gc + new)

1

wt 32 Yale 934

+0.430 -0.290 Yale zone

1/2

+0.436 -0.296 Van Vleck Relative

1/2

+0.450 -0.255 Gichu (1)

0

P +339 4 mt. Wilson

+0.455 -0.435

#343.4 m. Wilson

+0.435 -0.290

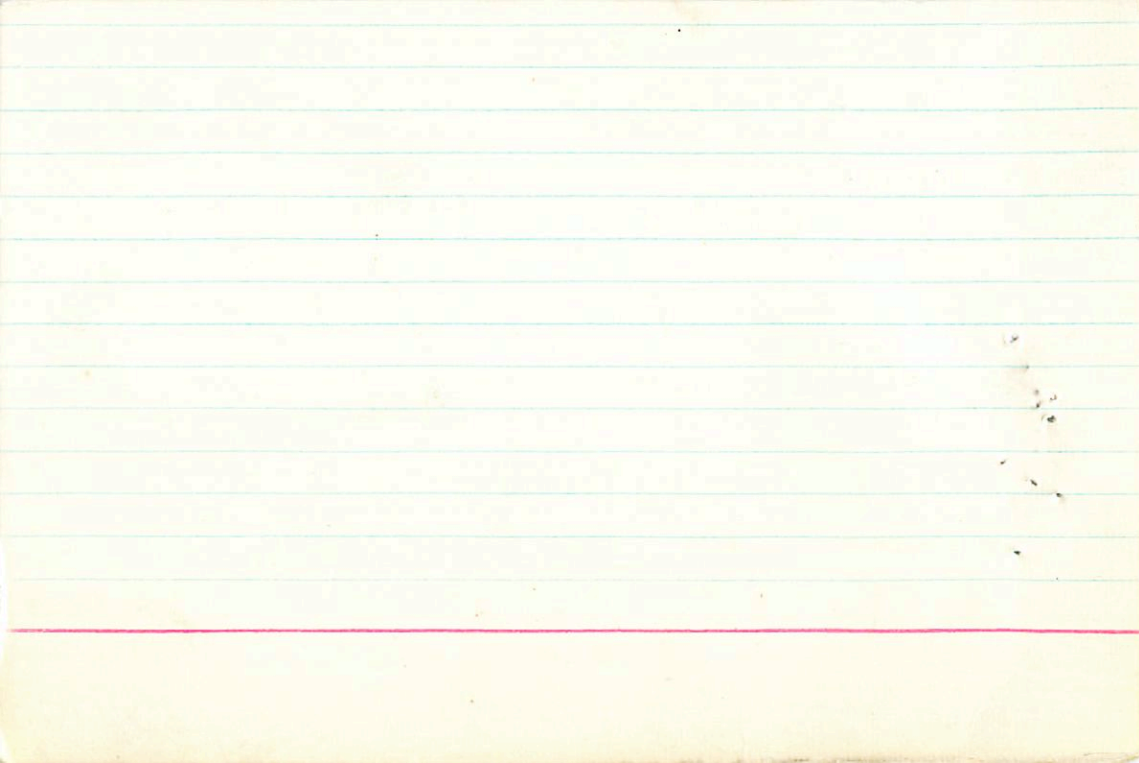
←

+0309 30 + [unclear]
429304

+339.6 1 Pantage

494
304
+1.17 34.1

339.0



H1

G-C5105

4 11.6 +22 M

2014 Y R

+335 w(14) R

+210607

7.22 +0.44 = 0.19

+433 ± 4

W2Y20

u z = .19 w

+395 ± 4
+442 -289

+356 -130 -64

+455 -283 G-G

.63 134 launch

+455 ± 2 -288 ± 5 ✓

1,433 ± 4 WR on (16)

+455 ± 2 VR

+442 Y

+455 GC

.450

C

339 ± 4

3424 ± 0.6 19.

+430 -286

π = 0.14.

-15 M(F)

-1 W(F)

+17 D(4)

270 (0.4)

890 456 378 527 +455³⁰ -283 +339 -107 +125 -1.241 ✓

³⁸⁴-405 095 ¹⁹⁷~~207~~-049 ~~-468~~ ✓ ~~443~~ ✓ +314 +143 +279 015 ✓

+36+368+45

+353 -120-65

011 ✓

+1403 +15

362-169-57

① 355 ✓

② -180 11

+1-65 ✓

$$\begin{array}{r} 10.15 \\ \hline 35.07 \\ \hline 6.78 \end{array}$$

$$\begin{array}{r} 29.0 \\ \hline 64 \end{array}$$

$$\begin{array}{r} 54.75 \\ \hline 192.9 \end{array}$$

$$\begin{array}{r} 55.20 \\ \hline 5 \end{array}$$

55.26 192801

$$\begin{array}{r} 1.86 \\ \hline 12.8 \end{array}$$

1906.5 +22 13 49.15 1905.2

+032847.8
 +0240
 -25378.0
 -28

222

$$\begin{array}{r} 138 \\ \hline 276 \\ \hline 642 \end{array}$$

$$\begin{array}{r} 107 \\ \hline 611 \end{array}$$

35.091

$$\begin{array}{r} 1417 \\ \hline 34496 \end{array}$$

35.913

Cond II

443
 242
 242
 5108
 +210607

2420

R.A. : 4.200
DEC. : 22.250
PM. R.A. : 464.000
PM. DEC. : -304.000
DISTANCE : 4.170
MODULUS : 68
RAD. VEL. : 342.500

013
q1 (U) : 0.337
q2 (U) : 0.142
q3 (U) : 0.931
dU : 481.056
U : 351.682

q1 (V) : -0.643
q2 (V) : 0.756
q3 (V) : 0.118
dV : % -2399.77
V : -123.468

q1 (W) : 0.688
q2 (W) : 0.639
q3 (W) : -0.346
dW : 479.259
W : -85.683

26794 -092 4 169 402 57 457
25-08-72

165.2 1587 (140)
144 } MP4
144 } MP4
033 ✓
+108 +263

02 897 553 507303 25244 108
203
2.38
457.0

Coated 1570
10
one of

3 17.9 -43 16

R.A. : 4.200
DEC. : 2.900
. R.A. : 108.000
. DEC. : 263.000
STANCE : 2.380
ODULUS : 30
. VEL. : 57.000

q1 (U) : 0.337
q2 (U) : 0.442
q3 (U) : 0.831
dU : 723.114
U : 69.032

q1 (V) : -0.643
q2 (V) : 0.753
q3 (V) : -0.140
dV : 609.244
V : 10.269

q1 (W) : 0.688
q2 (W) : 0.488
q3 (W) : -0.538
dW : 959.890
W : -1.928

17-31

4 13.2 707 47

429.5

R₀ 264

11.52	0.471	0.275	0.248	2563
1404	453	280	244	1574

Condy

10094 - 281

140 ~ 281

48.96
 14

 1.12

141
 - 281

 135
 1574
 429.5

R.A. : 4.200
DEC. : 7.800
PM. R.A. : 141.000
PM. DEC. : -281.000
DISTANCE : 5.320
MODULUS : 116
RAD. VEL. : 29.500

q1 (U) : 0.337
q2 (U) : 0.369
q3 (U) : 0.866
dU : -269.181
U : -5.639

4.79

+5

q1 (V) : -0.643
q2 (V) : 0.762
q3 (V) : -0.075
dV : % -1440.7
V : -169.160

-1125

q1 (W) : 0.688
q2 (W) : 0.532
q3 (W) : -0.494
dW : -253.587
W : -43.960

-39

ALICE

4

5.9

7/4

60

1931

LN 280

7.53 10.57 0.58

7.52 0.59 0.40 3 0.48

NOV 20

0.85 24 88

707 0336

110

1.148 907 133 29

R.A. : 4.250
DEC. : 14.150
R.A. : 88.000
DEC. : -211.000
STANCE : 5.000
MODULUS : 100
VEL. : -19.100

q1 (U) : 0.326
q2 (U) : 0.270
q3 (U) : 0.906
dU : -138.483
U : -31.152

q1 (V) : -0.641
q2 (V) : 0.767
q3 (V) : 0.002
dV : % -1026.869
V : -102.719

q1 (W) : 0.695
q2 (W) : 0.581
q3 (W) : -0.423
dW : -300.403
W : -21.953

508

-32

106.7

-23

+0017 -014
+0014 -012

+0015 +7.3 -01167.8
+0019²² -017
M400 787.2

27498 +16
+0017
+0016 251

45 2.3 9 M4 +860.0
+0016 OPS
+024

2503 44.324
-075
1,249

7.08 +1.55 +1.70 19.5
707 -014

6.97.0
6.95 +1.56 +1.42

44 50.74 1901.7
53
50.21

5.65 +1.05 33
28.955
15.3453
44.3020
320
329

28.13 435.04
38.72

6.85 5.6
+1.50 +1.10
+1.66 7001

49.41
50.83
422

8.2
14.172
30.148
44.323
44.314

76.88
38.4
36.7

17.31
26.89
50.208
50.57

1941.84

320
+071
+0018 -016
+0017 -017
+0025
52.56
1.32
5.22

17.31
26.89
50.208
50.57

14.172
30.148
44.323
44.314

1941.84

14.172
30.148
44.323
44.314

1941.84

27438.000*

4.000*

17.700*

-2.000*

-45.000*

0.028*

-0.017*

3.200*

436.516

87.200

-0.000

0.792

69.028

-0.144

-0.229

-82.615

0.058

-0.566

22.322

175
114

-460 1426 4 27.4 - 46 38 120 TP - 540 ⁶yr

544
4+6
-0012-030

8.76 + 1.12 (2.18) L
8.81 + 1.10 + 0.55 ①
8.80 + 0.415 ②

-0123
-009-032

792
779
④6

Another gas bond

rev 0
9.75
F&K = 0.10

0.000*

4.000*

27.600*

-46.000*

-38.000*

-0.000*

-0.032*

8.600*

00²
5623 524.807

-54.000

-0.152

0.218

-97 -97 -91.755

-0.029

-0.693

123 +20 +20 22.042

-0.019

-0.687

+27 +27 27.273

29377
+150662
2716

4 35.4 +15 21 9.8 g114 +436

24

0.12

June 662

+070 0 A6123
+075 202 4 → 1124
+072 +010

+075 +013 Y
17 +8
+079 +010

~~2.70~~ +0.75 ①
2.06
605
84
945

662 +017 -033

Maximum velocity (g104) is positive of +150663
8th mag star P-I = +0.78

29387.000*

4.000*

35.400*

15.000*

21.000*

0.079*

0.010*

9.450*

776.247

43.000

0.106

0.936

122.625

-0.196

-0.036

-153.597

0.305

-0.349

221.505

293867

4

854

+15

21

98914

087

+150662

+150663

886 83 K2

R?

Der nächste Charakter

Parking
+150663

~~7.2.1 + 0.75 - 0~~

+434

+070 0 A 6143

+75 +20 4-5-144

+072 +10

+072-1008

29386.000*

4.000*

35.400*

15.000*

21.000*

0.072*

0.000*

9.000*

630.957

43.400

0.095

0.936

100.836

-0.183

-0.036

-116.813

0.275

-0.349

158.148

857

2557

10501

AS 144
38.0

-65 32

+244
-0.06 MB

9.82 +64 (1.60) 62.51

+580 +815

2480

C=183

+68.4(6) C5

+31.4 563

-67(60)

13(17)

525

1173 1296

1159 1250

1165 1291

.725

724

+109 +1307

BPM → +.644 1.316

+1701 Y(R)

+1704 C1A

+930 +1263

Bill?

Smith

Immo

25907

88.0

4

~~37.9~~

-65

32 =

$0.2\sqrt{I}$

257309

-650253

925

$$9.82 + 0.64 - 0.12 \text{ (2)}$$

$$9.5 + 0.25 \text{ (5)}$$

920

882

(-1.52)

+686 6 Cape ✓

+31.4 3 Stg

Immo

$$+1.700 + 1.315 \text{ BPM}$$

$$+730 + 1270 \text{ II}$$

$$+730 + 1289 \text{ C pty} \rightarrow \text{BPM} + \text{com}$$

$$730 + 1285$$

(3.5)

29907.000*

4.000*

38.000*

-65.000*

-32.000*

0.730*

1.285*

3.800*

57.544

68.600

335
468

6.722

-0.092

308 380.538

-1.646

-0.781

-131 -148.307

1.082

-0.618

8 19.875

(21814)

30224 40.9 45 24

99246 0.1 418

90309

9.42 0.67 -0.09

240 0.64

1056 81105

+007 -030

+016 +027

0115 -0285

0116 -030

OK

6045

7849 0.69

+0026 -027
+0012 -0207

+0018 -0285

0112
0116 -030

940 658

4014 +0024

10034 -027

0014 -008
+0005 -033

+0006 -0266

0164
021 -025

+302
62MP

3022
2032

3022
cage (305)

465
-654

38

-30

8.0

+302

1.038
BPT
848

Very weak metal.

1047
575
52

R.A. : 4.650
DEC. : -65.400
PM. R.A. : 38.000
PM. DEC. : -30.000
DISTANCE : 8.000
MODULUS : 398
RAD. VEL. : 302.000

61

0001
007
134.5
q1 (U) : 0.239
q2 (U) : 0.967
q3 (U) : -0.089
dU : -119.551
U : -74.515

-46.7
-246.5
-171.6

269
q1 (V) : -0.618
q2 (V) : 0.081
q3 (V) : -0.782
dV : -57.848
V : -259.152

-1050
q1 (W) : 0.749
q2 (W) : -0.242
q3 (W) : -0.617
dW : 90.578
W : -150.277

734

W1
-266
-150

R. A. : 4.650
DEC. : -65.400
M. R. A. : 28.490
M. DEC. : -40.920
DISTANCE : 8.000
MODULUS : 398
D. VEL. : 305.000

q1 (U) : 0.239
q2 (U) : 0.967
q3 (U) : -0.089
dU : -174.086
U : -96.493

q1 (V) : -0.618

q2 (V) : 0.081
q3 (V) : -0.782
dV : -50.434
V : -258.556

q1 (W) : 0.749
q2 (W) : -0.242
q3 (W) : -0.617
dW : 89.062
W : -152.731

85-21 1-58 8594 48.5 718 17 265-6

19.750
19.911

1206

1050 0352 2133 0.237 2.585
1086 380 1977 235 27205
135

~~19.750~~
19.911
1206

Contingency

5009-142

162492

19.911

1285
5801
549

163
152
19.911
1456
19.911

19.911
1456
19.911

R.A. : 4.800
DEC. : 19.300
R.A. : 163.000
DEC. : -192.000
ANCE : 5.280
JLUS : 114
VEL. : -65.600

(U) : 0.206
(U) : 0.175
(U) : 0.963
dU : -9.224
U : -64.206

(V) : -0.608
(V) : 0.794
(V) : -0.014
dV : % -1165.775
V : -131.675

(W) : 0.767
(W) : 0.582
(W) : -0.270
dW : 29.425
W : 21.061

454

24

107.5

120

-23.2363

4

57.3

-23 27

113

5

1.3 16.9

-23 19.02

W2999

+124d 2w

Yale +243 +138
+300 +145

827

10.100 +8.3

14K

0.2

124

+0.300 +0.145

R.A. : 5.000
DEC. : -23.300
PM. R.A. : 327.000
PM. DEC. : 145.000
DISTANCE : 0.200
MODULUS : 11
RAD. VEL. : 124.000

q1 (U) : 0.161
q2 (U) : 0.784
q3 (U) : 0.599
dU : 768.581
U : 82.695

q1 (V) : -0.592
q2 (V) : 0.562
q3 (V) : -0.577
dV : -457.030
V : -76.548

q1 (W) : 0.789
q2 (W) : 0.262
q3 (W) : -0.555
dW : 1303.586
W : -54.575

32023

4 57.8 +00 56 d.f.s +104 c.m.g)

+00916

SAGU-1408 9.10 +0.57 +0.04 FFER

112962

S = .06

+101	-33	-21	.008
+104	-35	-12	.006
+107	-35	-8	.005
+131	-22	+19	.008
+110	-37	+7	
+111	-27	-2	.010
+99	-29	-21	.020

34
 +23
 +032 ± 7 +02174
 +046 +017 84

+039 +024 Agn 3
 +030 +022 Y →
 +035 +023

+037 +022

32023.000*

4.000*

57.800*

0.000*

56.000*

0.037*

0.022*

4.200*

69.183

106.000

0.079

0.867

97.296

-0.026

-0.290

-32.515

0.186

-0.407

-30.194

55 11.14 106 51 23.9 184.5

2 34.54
- 37
107

57 186.702
- 771
1004

83.8

4 39.50
2403
13

96 3.83
- 5.44
56.39

54.03
+ 1
55.03

1008

1019

80

59

+30740

9.81 10.36 - 0.20 2.5

684-24

4 586 +4 02

Sealey

67711566

+1238 (14)

9.80 9.86 0.36 - 20

+176.6 to .8

172.9

154 -158 16
154 -138 45

9.80 9.11 0.61 399

178.1

+166 -106 7 end

9.79 3.12 0.65 3.54 2.617

293.07 / 350

173.6 (17)

+166 -136

107

(5)

161 -145 Sample

164

166 -136 7 end

-140

164 -140

5.33

173.6

+367

173.8

176

26.9

33.0

9.80-3.41 0.63 3.66

277

284 0.77

R.A. : 4.950
DEC. : 4.050
R.A. : 164.000
DEC. : -140.000
DISTANCE : 5.330
MODULUS : 116
VEL. : 173.800

q1 (U) : 0.172
q2 (U) : 0.422
q3 (U) : 0.890
dU : -146.151
U : 137.700

q1 (V) : -0.596
q2 (V) : 0.764
q3 (V) : -0.246
dV : -969.437
V : -155.670

q1 (W) : 0.784
q2 (W) : 0.488
q3 (W) : -0.383
dW : 283.684
W : -33.587

9 Ann

5

0718

+51

32

1027

~~714~~

1027

22507

1031 - 173 Sunday

(F250)

2487

[229-173]

217 152 642 37203

1033

-47

-173

209

714

26.6.208

N. Williams R. et al

1993 MATHS 263, 787

ABT, A
Bullington G

1983
APR #72, 196

706

Burke E. Jr.

.A.	:	5.050
EC.	:	51.550
.A.	:	-47.000
EC.	:	-173.000
NCE	:	2.040
ILUS	:	26
DEL.	:	-7.400
(U)	:	0.150
(U)	:	-0.375
(U)	:	0.915
dU	:	286.500
U	:	0.560
(V)	:	-0.588
(V)	:	0.710
(V)	:	0.387
dV	:	-500.581
V	:	-15.673
(W)	:	0.795
(W)	:	0.596
(W)	:	0.114
dW	:	-599.136
W	:	-16.174

1983-5-56

12 1/2 11 2518.0 517A71

+92

CAD

-480 591 5 64.2 -47 57 40

CAD -480 1630

11.14 + 11 + 07

229 964

1410

7

"
" holds -132 CAD

90

HB stem $\beta = 2.889$

0.000*

5.000*

4.200*

-47.000*

-57.000*

0.066*

-0.132*

9.000*

630.957

72.000

-0.558

0.219

-336.418

-0.348

-0.766

-274.557

0.238

-0.604

106.957

13-12-10

+550960

5

04.3

+55

22

627

73

23922

9.56 > 281.96

9.56

9.33 + 0.63 - 0.01 R

959

1191

110.2 (C)

-121.4 f

2

-6059 -366 66

110.3

-6057 -367 200(2)

-6036 -374 71 →

460

74

-6051 -370 60

-60545 -365

-6062 54

-649-365

7952
121.82
22174

55.960*

5.000*

4.300*

55.000*

22.000*

-0.049*

-0.369*

5.600*

131.826

~~-121.400~~

-10.3

0.728

0.888

524

~~-11.892~~

-2.04

-1.062

0.432

-77 #41

~~-192.438~~

-187.44

-1.206

0.156

-288 -116

-288 -91

~~-177.946~~

176.21

3.9
221.755985

-121 R(v)

5 07.3 +55 21

+550960

9.33 +0.63 -0.01 G2D R

Self

-049 -346 R

-030' -379.114

-035 -375

R. A. : 5.050
 DEC. : 55.400
 R. A. : -59.560
 DEC. : -381.960
 TANCE : 4.600
 DULUS : 83
 VEL. : -110.300

1 (U) : 0.150
 2 (U) : -0.435
 3 (U) : 0.888
 dU : 764.065
 U : -34.364

WZ1, -3764 → 6V

1 (V) : -0.588
 2 (V) : 0.682
 3 (V) : 0.434
 dV : 2-1140.895
 V : -142.757

55
112
84

1 (W) : 0.795
 2 (W) : 0.587
 3 (W) : 0.154
 dW : 2-1190.862
 W : -16.022

970 241 823 569 -085 -375 -121.4 -309 -100 -1.005

032 290 -008 -073 500 1.340 -69.0 -17 -67 020

1 0 -70
4 0 -13
-7 0 -70

+8 0 -150
-69 -109 -77

~~025~~
025

+3 -13 -140

-76 -99 -65

+13 +12 -159

-63 -119 -86

017
}
022

1 10 -74
6 -5 -120
-11 -1 -74

0 211 -65
1 6 -106
-2 2 -65

-73 -103 -70

023

-67 -112 -80

019

+55° 960

5

$\overline{0.2}$
4.3

+55

$\overline{18}$
22

-121.4 ± 3.4 R(4)

6249

$\frac{237354}{6249}$ Remainder

9.33 +0.63 -0.01 6249 R

S = .17

-49 -133 -110 .013

-70 -106 -80 .020

-58 -364 45.7

-036 -379

0 2

-036 -379

-049 -366 GC

+142	-438	+888	-0333	+7598	+7265	+33.2	-107.8
-438	+686	+432	+1026	-11901	-1,0875	-49.7	-52.4
+798	+541	+159	-1869	-10079	-11948	-54.6	-19.3

-0058 ± 9.0
-6056

-366 ± 8.3
-367

19.206

1907.2

455

21

39.68

1506.2

$\frac{248}{45} = 5.51$

$\frac{16.63}{45.71} = 0.36$

19.204

$\frac{10}{214} = 0.0467$

31.2

40.41

-16

19 46.97

544

$\frac{40.25}{38.4} = 1.048$

487

19.229

$\frac{42}{2} = 21$

177

46.71

1924.9

32.2

at
1711

$\frac{494}{247} = 2$

12.24