

87955

10 06.3 +38 41 8.0 g m2

-32.0

13936

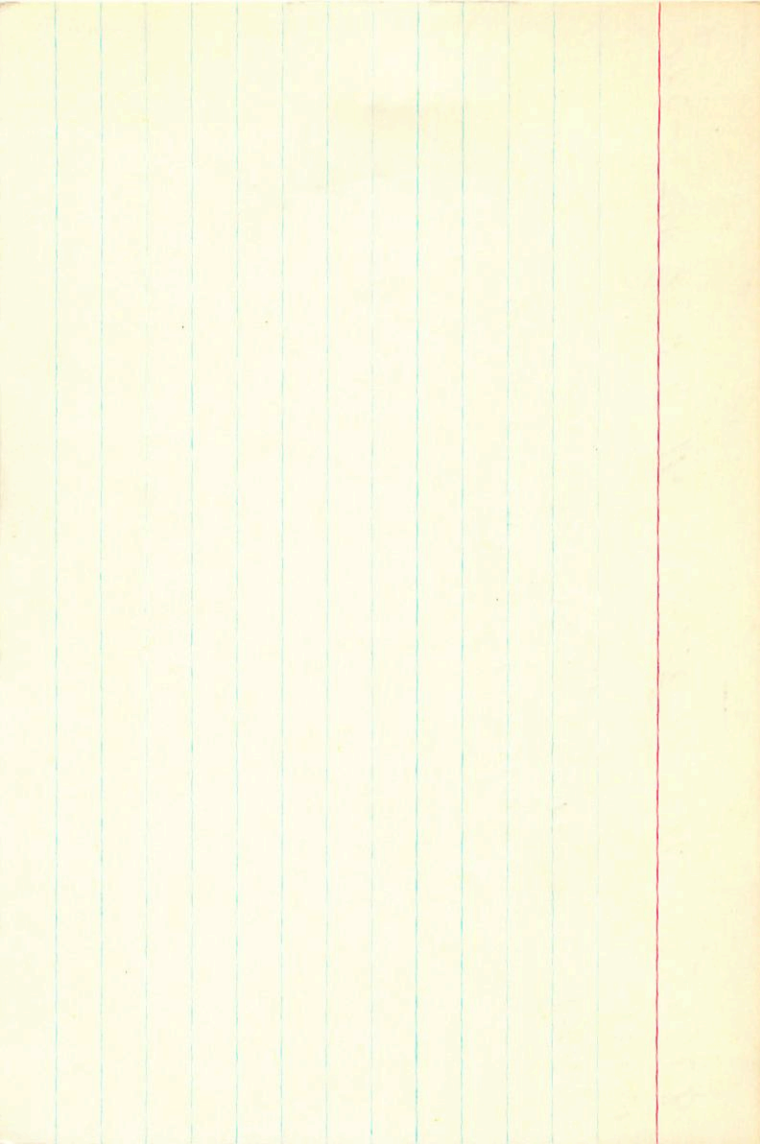
6421

18

+0023 -026 N30

-0018 ± 5.1 -033 ± 42 G-L → N30

Gr



$$\Delta m = 0.0$$

$$\begin{array}{r} -0016 \pm 6.3 \\ -0014 \end{array}$$

$$\begin{array}{r} -028 \pm 6.4 \\ -008 \end{array}$$

$$6.6$$

$$AD52662 \quad 10 \quad 06.6 \quad +20 \quad 35955 + A2 + 878$$

$$88021$$

$$13941$$

$$6423$$

$$34.268$$

$$\begin{array}{r} 78 \\ \hline .346 \end{array}$$

$$19013$$

$$+20 \quad 34 \quad 41.32$$

$$14028$$

$$.0144$$

$$+12024$$

$$\text{Dish}$$

$$+022 \quad -014 \text{ km}$$

$$\begin{array}{r} 42.64 \\ \hline \end{array}$$

$$35.9$$

$$41.74 \quad 1534.1$$

$$-020$$

$$34.290$$

$$\begin{array}{r} 10 \\ \hline 500 \end{array}$$

$$\begin{array}{r} 294 \\ \hline -052 \end{array}$$

$$34.287$$

$$34.287$$

$$\begin{array}{r} 21 \\ \hline 00 \end{array}$$

$$\text{van}$$

$$744$$

$$\text{Herk}$$

$$37.2$$

$$\hline 34.4$$

$$42.36$$

$$1940.3$$

$$\begin{array}{r} 42.36 \\ \hline -1.28 \end{array}$$

475 - 850 352 536 -022 -014 +9.7 -005 +3 -062

010 002 019 004 025 059 +9.1 -8 +4 D.0144

$$\frac{-6+11-1}{\boxed{+9-8+3}}$$

166m.

-797	+326	+507	+10850	-0247	+0603	+10.0	+4.9
+158	+925	-346	-0168	-0701	-0869	-14.4	-3.4
+582	+155	+758	-0620	-0148	-0768	-12.7	+2.6

125m

+7.5	+449	+12	+15
-10.8	-3.4	-14	-18
-9.6	+2.6	-2	

16524
88048
13943
6424

-0008 ± 2.5 - 0.13 ± 2.1
-0011 - 410
+06 25 6.8 914 + 26.36

10 06.6 +6 24 59.77 1895.0

37.729 1899.3 +6 24 59.77 1895.0
641
770

25 0.49
59.77 1934.2 10195

99
37.721
20
541

347

55.80
0.30 1938.65
+ 8
0.38
34.0

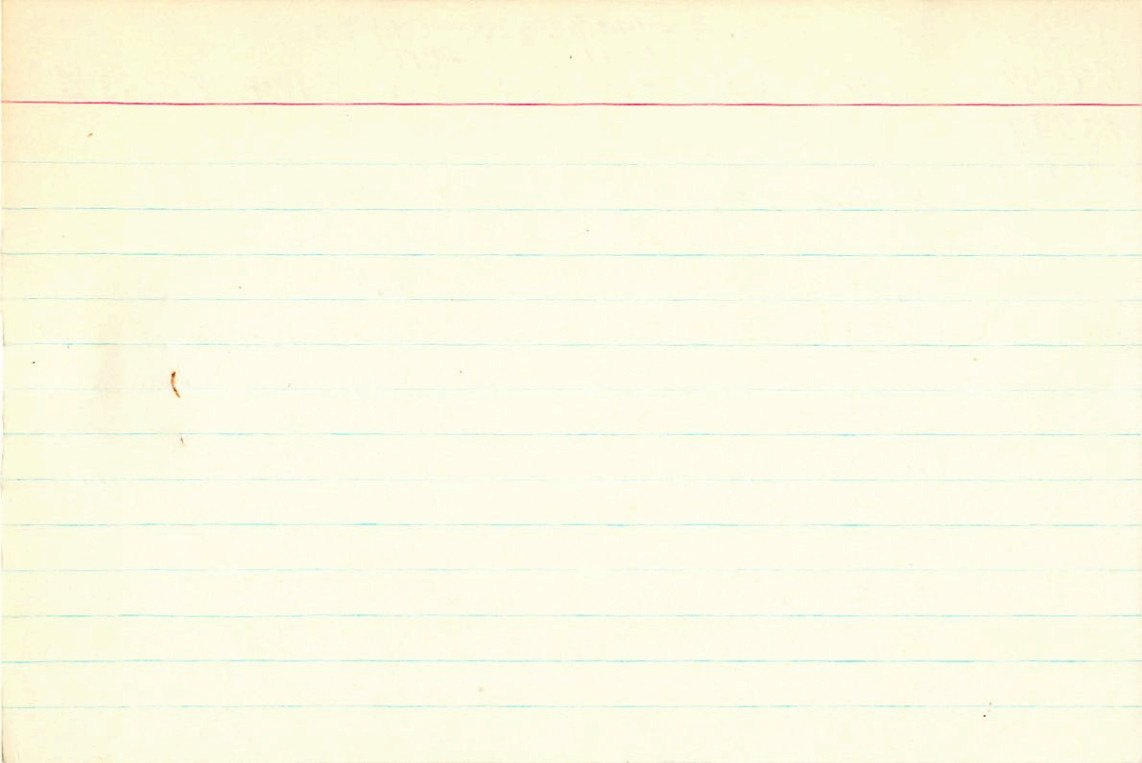
37.695
22
71

732
8
-03

20.44 1929.1
19.68
0.76
0.64
0.10
-139

19.102
16.620
37.721
739

39.0



-0027±5.3 -002±4.3
-0016 -002

98071 10 06.9 +09 50 7.5 gms +5.66

13949

6425 52.436 1905.8 +9 50 19.66 1901.7

119 -002

708 + 1648 + 1885 = 555

544 + 0915 = 52.485
20
505

5.56

43.5
0.95
6.30

20.671
31.834
52.505
500

505

-049

-0020 -001 GC
+ 000

-0295 000 P14

-028 + 007 + 000

10
19.76

19.65 1933.4

19.68

11.03

76.12 1937.63
56.29
19.83

35.5

33.8

19.72

19.70

-106

24

88108 10 06.9 -13 07 7.3 GM3 -12.36

13951

6426 56.469 1907.4 -13 6 59.89 1905.4

$\frac{149}{.618}$

②
 $7.09 + 16.55 + 1.93$

 $5.81 + 0.96$
③

43.464
 $\frac{13.182}{56.596}$
 $\frac{602}{+16}$
 $\frac{618}{618}$

38.22 1934.27
~~20.01~~

612 549 120
 $\frac{1267}{4518.17}$
 $\frac{600}{30.8}$

27.370
 $\frac{29.256}{56.626}$
607
-22
603

-0008 + 005
-0010 + 604
-008 + 008

6000

88071.000*

10.000*
6.900*
9.000*
50.000*
-0.028*
0.004*
8.300*
457.088
5.600

0.114

88108.000*

10.000*
6.900*
-13.000*
-7.000*
-0.008*
0.008*
8.150*
426.580
-12.300

0.051
0.235

18.969

0.016
-0.799

16.546

0.001
0.553

-6.404

28

$$\begin{array}{r} -0.167 \neq 7.5 \\ +0.33 \neq 6.9 \\ +0.34 \\ -32 \end{array}$$

$$60 \overline{IV} + 8.5 \neq 1.1 \neq 1.6$$

$$36$$

$$-32$$

$$-87.3$$

$$10$$

$$88201$$

$$246 + 54$$

$$13459$$

$$-18.831 \quad 1897.6 \quad -32 \quad 36 \quad 4.22 \quad 1854.8$$

$$\begin{array}{r} 875 \\ \hline 19706 \end{array}$$

$$\begin{array}{r} -182 \\ \hline 6.04 \end{array}$$

$$18.812$$

$$3.81$$

$$1956.36$$

$$\frac{-2}{810}$$

$$\frac{-16}{3.99}$$

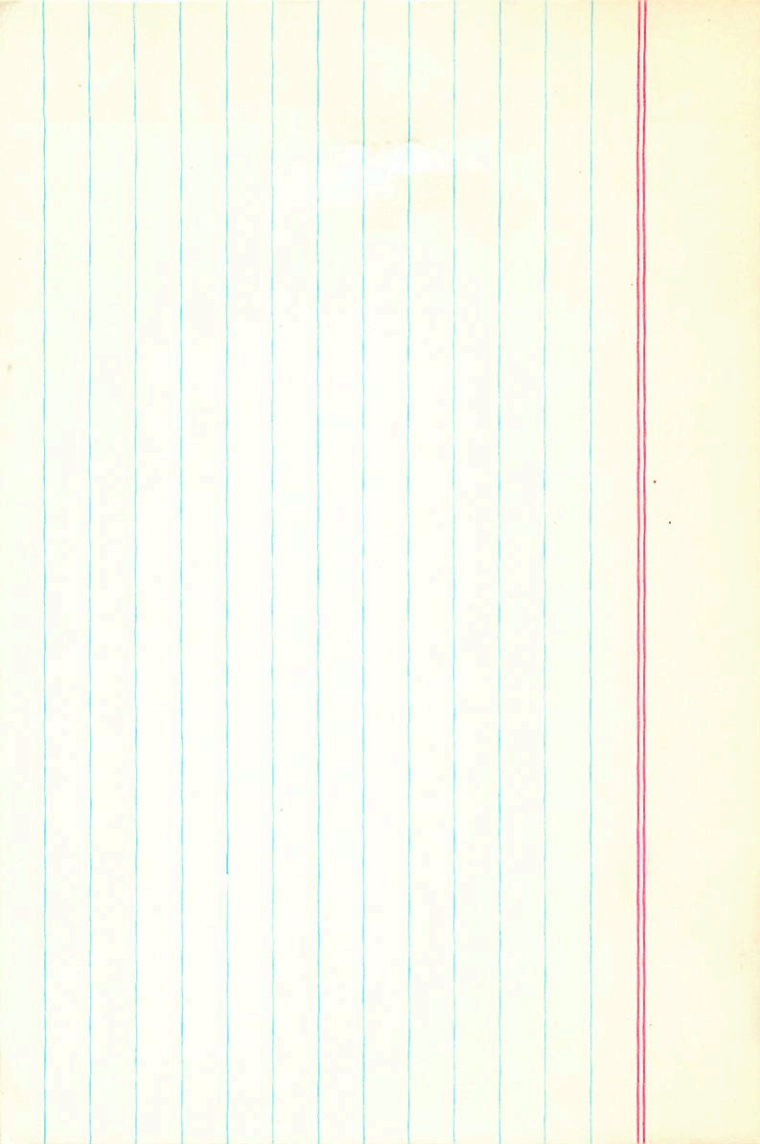
88293

10 67.3 - 60 57 No IV + 9.4 46

901170

7.44 + 1.08 (2.08)

+ 606 + 604



2x5 259 249 5 Rev

88218 10 7.4 -3.5 34 01F4

HR3992 G240

6.12 + 158 + 16 C

394 12P 591 2

6.12 .386 118P 133P 2.580 13mm 2

6.18 404 1630 360 4

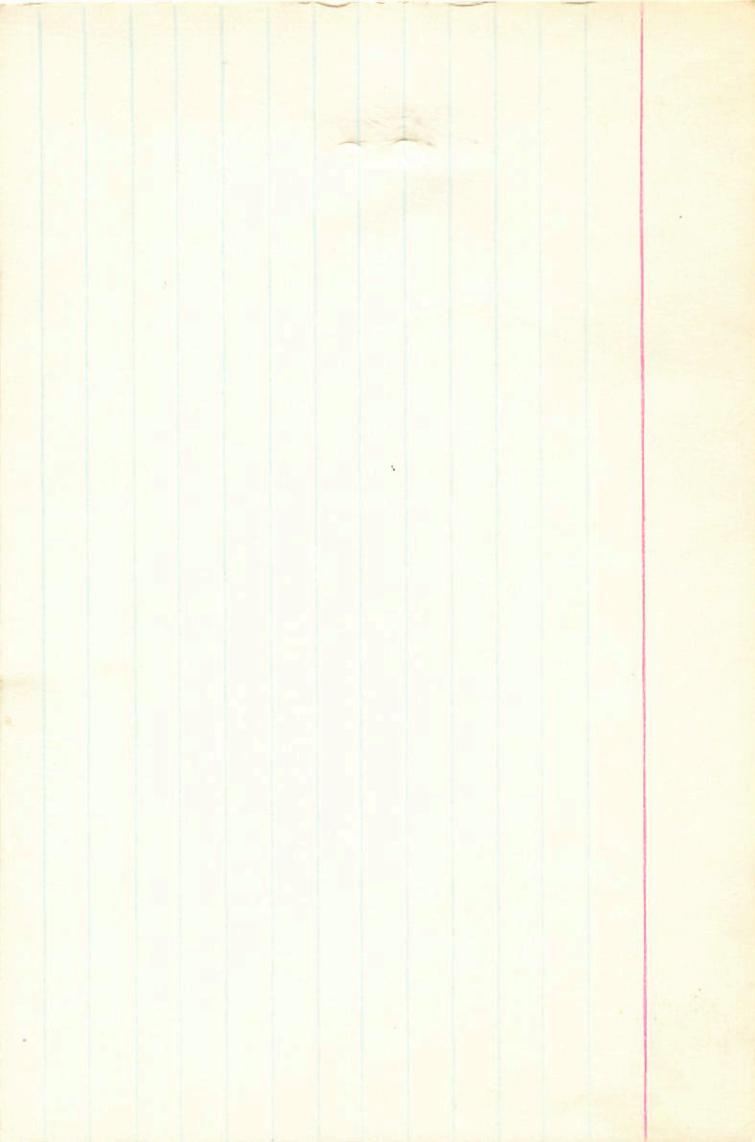
6.18 350 143 361

[9m] 250

[C] 258

2.00 + 72.0 - 47. - 17. (317)

+17 -3 -11



3992 +12
+11

10 07.4 -85 37 ~~156~~ ~~119~~

88215

436 ~~613~~

6.18 + 0.605 + 0.03 2E ?

5.70 + 0.275 2E

5.39

5.00

20

-0.362 + 0.06 GC +
+ 0.5

27
+ 39

-4915 + 40.9

-439 -1010

26

3992.000*

10.000*

7.400*

-35.000*

-37.000*

-0.439*

0.010*

2.000*

25.119

40.900

1.695

0.005

42.796

-0.332

-0.960

-47.576

-1.161

0.282

-17.644

26

5062091

1-11 1220 ✓

9823 ✓

10 08.00

+ 16

17

025 240

+320 (3)

-219 -1164 (06)

-219 -1159

-222 -125 AGR ✓

-220 -120

hpc

S.P.

||

27

88161 10 08.0 440 54 6.5 g N3 +13.8 δ

13976

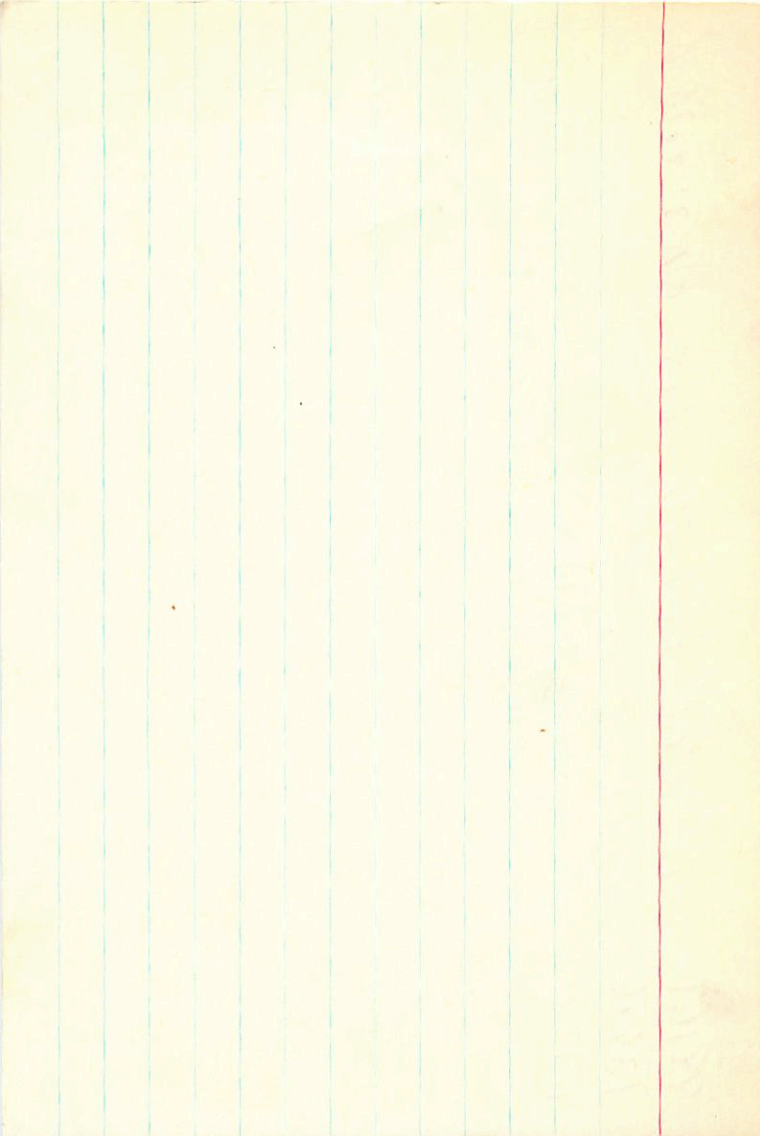
23

7/1/00

6433

-0002 -013 N30

-0011 ±2.7 -008 ±2.1 BL → N30



88231 10 0823 +37 39 6.1 g/103 +9.16

13995

6435

-0024²² -042 N30

-0023 ±3.2 -031 ±2.4 GC → N30

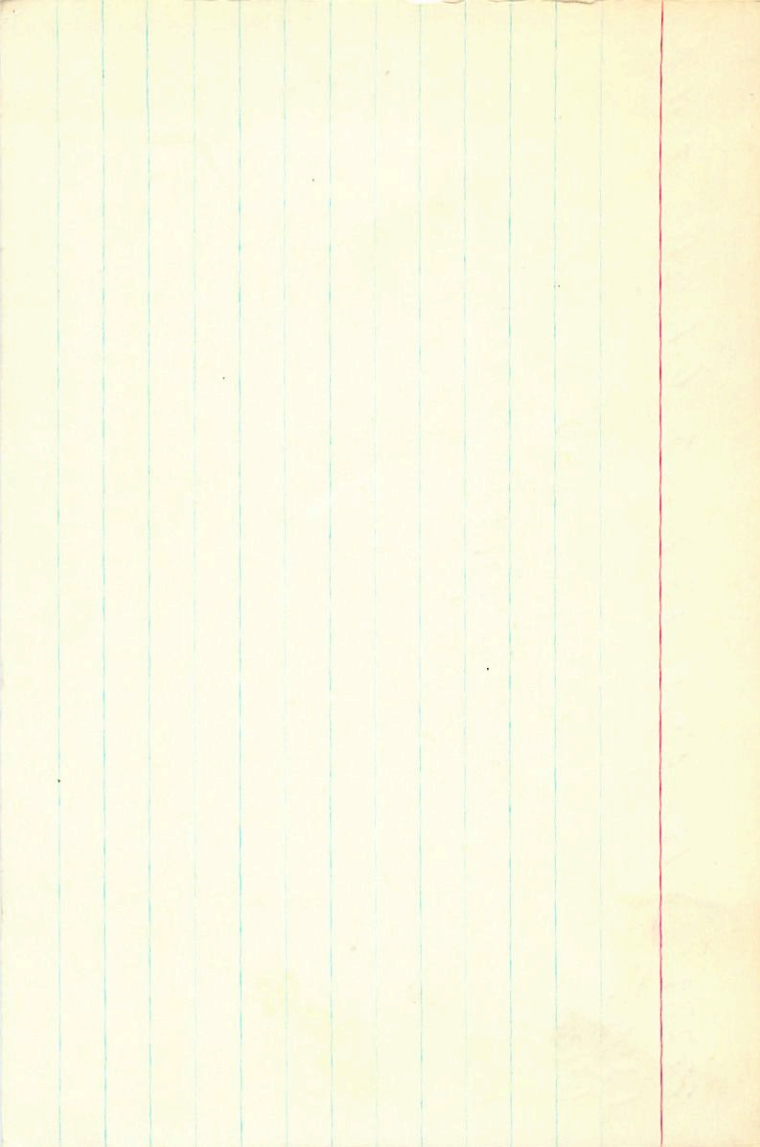
0026.0 -0410 Fry -0309

-031 -037

00210 -0342 -W3 50

-00226 -0417

9853 -8311
1710 0562



$+0028 \pm 7.8$
 $+0012$
 -086 ± 8.3
 -053
 3u
 13998
 88419
 10 08.9 -18 43 2.0 gm3 +37e

55.825 1503.2 -18 42 32.45 1403.5
 $\frac{-131}{694}$
 $\frac{400}{2865}$

5.56 H.015(2) 44.170
 11.535
 $\frac{55.705}{718}$
 $\frac{16}{734}$
 $\frac{55.706}{714}$
 $\frac{16}{727}$
 $m-m = 800$

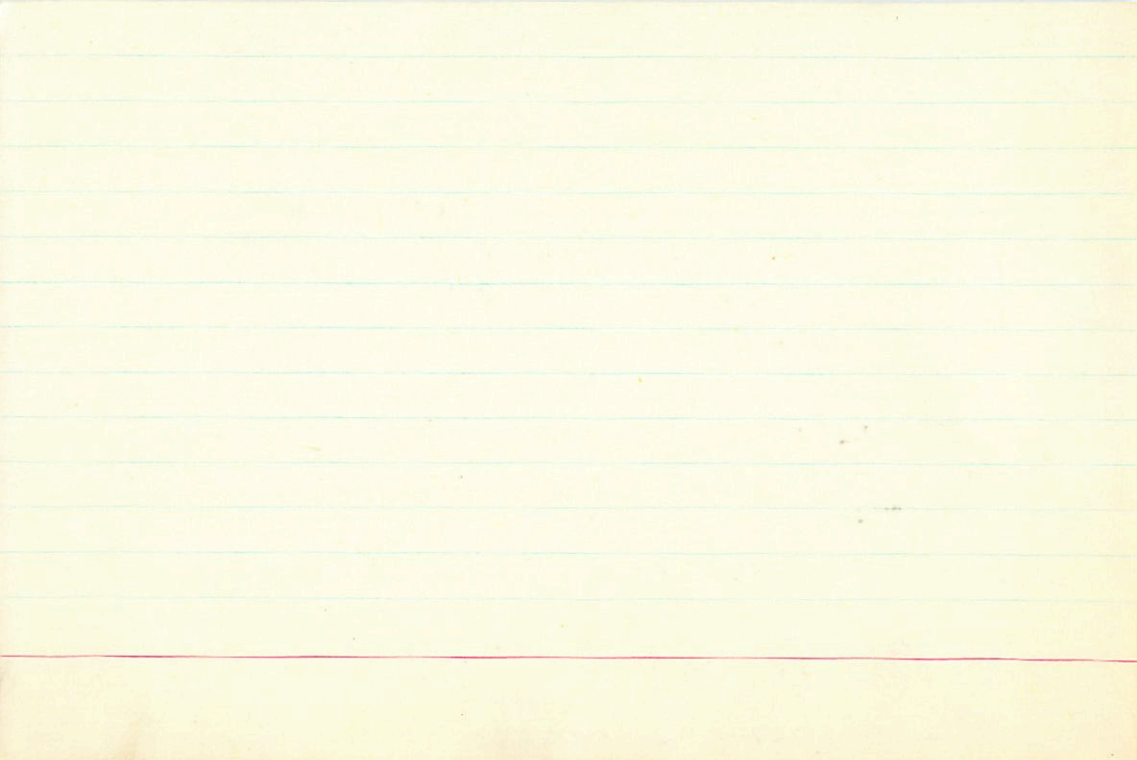
30.4

$\frac{730}{+036}$

8.82 1434.06
 $\frac{-22.20}{31.02}$
 $\frac{-59}{31.61}$
 $\frac{31.41}{2} - 250$
 $\frac{31.15}{-250}$
 728
 33.6
 30.1
 550 995
 450
 825
 31.822
 $\frac{30.25}{3110}$
 1433.22

$m = -1327$
 $v = -1469$
 $v = -1469$

~~Hij Nulcat~~



88476 10 09.9 +28 29 7.0 65 +4.96

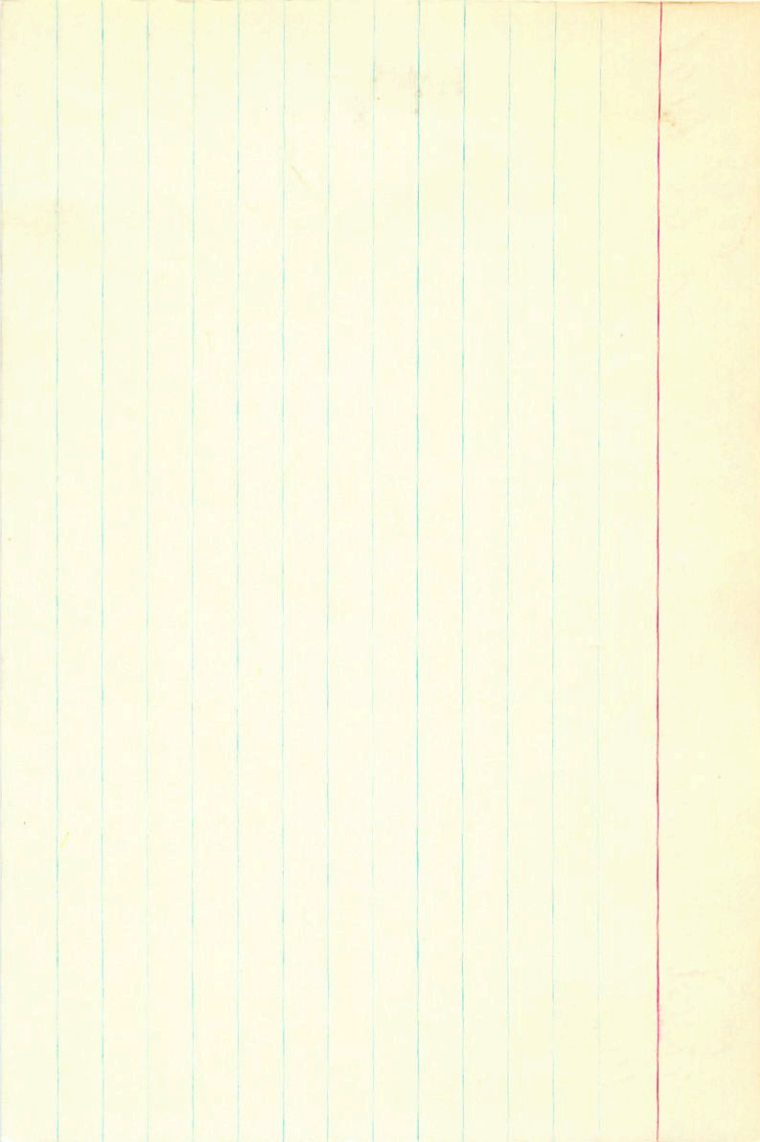
14014
6443

-0020²¹ -011N30
-0025±5.9 -016±4.6 66 → N30

DD +0.6 G81II

Carbury 029 +7.6

N023-011
6319 / 1.75
6052
6030-110
L01



7685

10

10.3

+27

40

-39.3

8.36 + 0.7) 1026 / 20''

40 ps

0767	-3.1	+20.5	+17.7
-0767	-23.0	+8.5	-14.2
-5762	-4.4	-32.1	-36.5
-1090			

-021	-121	Y
0	-4	
-021	-125	26
-1	+2	
-021	-123	230

+0801	-1568
0171	-5591
-0565	-0525

-805	+269	+529
+172	+959	-225
+568	+090	+918

200



4011 +176.23.2 230 810 2764
55 380 370
1160 - 26

+2215 Van 07 Ap
+176 City 6.25 Am
46

-26.7752 (W)

2248 ± 3.2 +033 ± 3.2
+034 5764 6.5
-0040
-0047 -1.44
5408

6614034

1.282 80
151
463

1.333 3846
+51
391
-02435 +040
-00446 +0413

52.93
+9
52.84

8823 -9144
464 4048

33677 4172 54.46
27630 \$5.01
1314 52.84
1314 52.84
-1304

-0547 0712
-058 +045 -0177

+21.0

52.84
52.84
52.84
52.84

-1304

0.10

WZ Hype

10 11.0 -12 54

+315-

115V ps.

+304⑥

0.000 -029

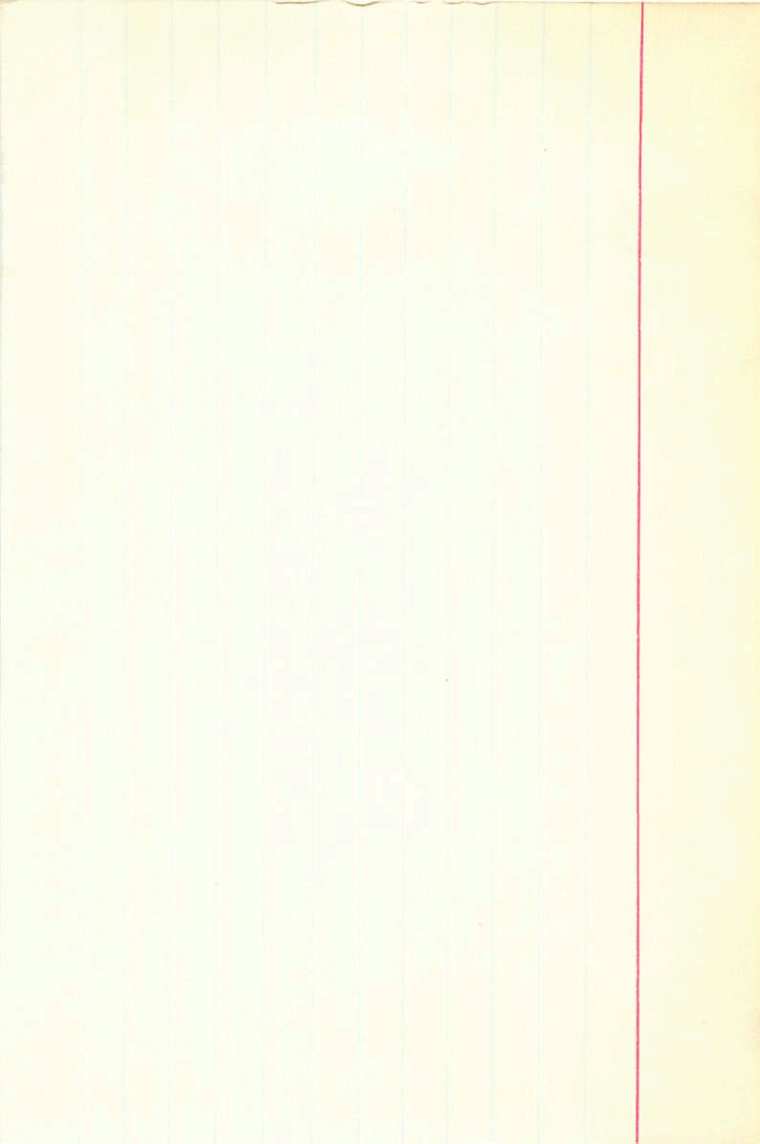
10.93 +0.36

-805	548	226	-0753
+172	580	-796	-0797
+568	602	562	-0828

-86.6 +71.1 -16

-91.6 -250.7 -342

-95.2 +177 +82



88746

10

11.0 ~~47~~ 14

+0.3 ± 6.19, 14

8.3: 10.5
5¹¹

8.13 + 0.78 682

-228 + 147 Cape

8246 450 272 300 (1)

458-584 -734 679 -225 +147 0 -108 0 4774

104 0¹⁷203 0⁹⁰ ~~413~~ ~~962~~ 0 0 0 03

¹⁴
066 1.155
39

~~+16~~ ~~+32~~ ~~+10~~
+2 +39 +16

83499 10 11.2 -89 50

89-263

440 octant

816 502 083 210 ③

818 504 082 224 ①

503 083 212

60123

-2101

20547 88697 14043
 10 113 -07 08 7.3
 -012872.1 +01772.0
 +010
 DFL +14.6

719 + 0.47 + 1.65
 226"
 14043 6454 8.20 326 153 437
 14043
 14043

15.143 1894.4
 712
 1855
 15.264
 270
 0.394
 14.522
 15.311
 1 - 559
 9044 - 9836 - 4106
 1455 1480
 42.2

1938.76
 10.22
 +35
 9.87
 45.02
 -24.50
 20.52
 1537.54
 47.0
 36.6
 330

96. + 5.87
 9.25
 5.87

28

88609 10 112 +53 49

+541359

40004-023

861 0675 085 570

-362 (6)

8-5-46 W a

88609 10 112 +53 49
 +541359
 40004-023
 861 0675 085 570
 -362 (6)
 8-5-46 W a

R.A. :
DEC : 10.200

+22. 214-129 10 06.3 +21 50 124

10 11.6 33B3 +21 36 +21 21.76

Example

+2394.1
~~42394.1~~
32 (m)

-7 Aug 14.12.1
14.2

16.1

7.85
7.85

+100000 AP 14
+73 276

020
1.36

MC-AC -097 -214

14.1

9.5 MD +7.9

-122

10
13

-0.100 -0.210

4555 2233

-8902 -6905

5-11-1

29





124.000*

10.000*

2/1

88793

10 11.3

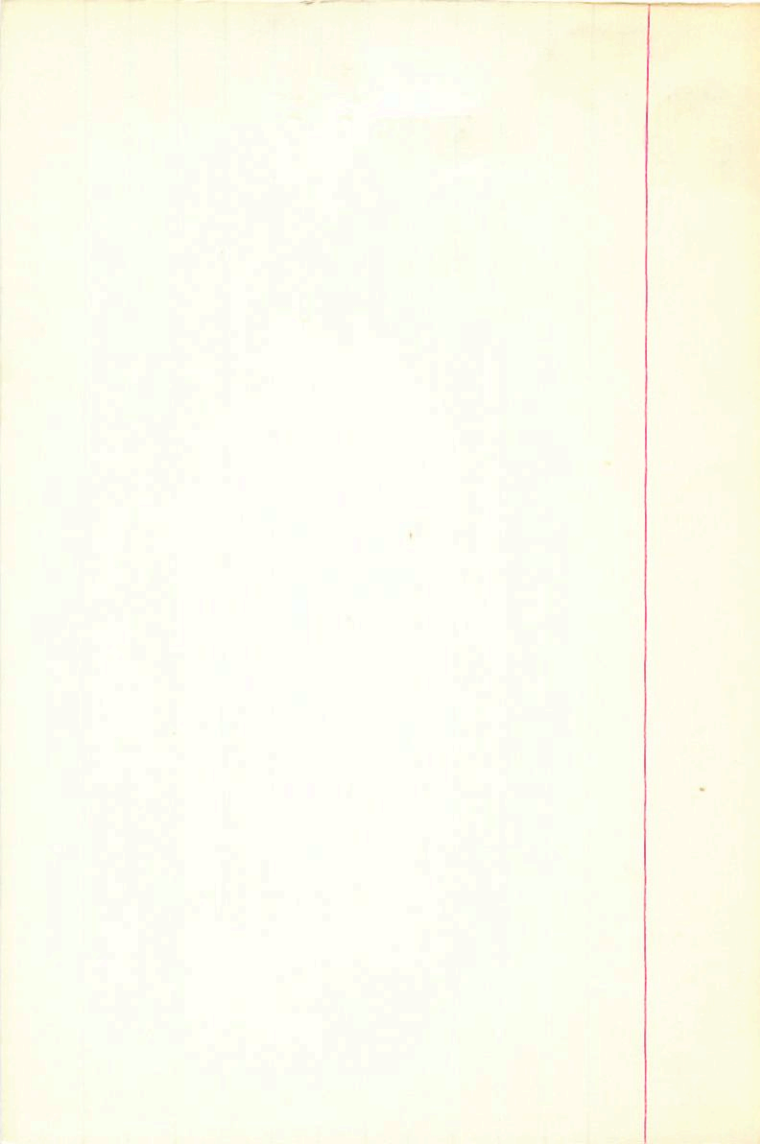
-50

22

7.89 + 1.19 102.17

763.4

]



4015 ~~4015~~

78804

10 11-6 200 06

0.0 ②

-391222

-0067 4004 5lay

6-504122

-00664 40056

-0764

-0774 4010

2154
88764

^{-0013 ± 2.5} 10 11.6 -0.7 4.5 -0.19 7.1 9.67 + 9.36

^{-018 ± 2.3}

14053

38.833
64
897

1500.6 -7 44 40.39 1894.6

+1.00
39.39

38.844

850
857
-040

36.2

41.03 1939.38

+35
40.68

24.094
14.762
38.856
+
864

15.07 1934.26

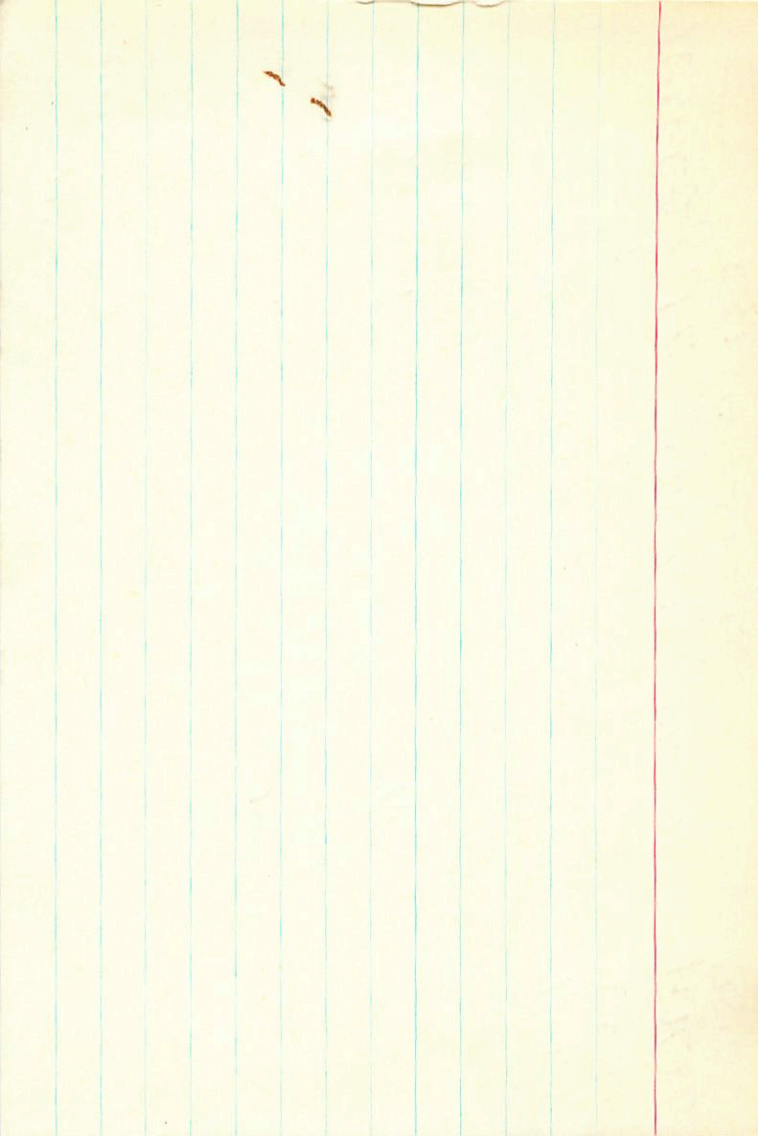
-24.40
39.97

3.64

97
48

36.8
42.2

40.19 -1.80



4072 10 11.7 +21 20 ✓ +16.8

361184

-010113.2

~~0.53~~

-08853.0

4482496.7

0903

3.16 55.9

53F
45362

474
5.92

10.2

+214

-152

(74.26)

44.542

1.53

87
564

-13
1.40

-27
2.55

+168

-0102-0855

-0104-0542

-1430

-143-081

30

R.A. : 18.200
 DEC. : 21.400
 R.A. : -122.000
 DEC. : -81.000
 DISTANCE : 2.820
 MODULUS : 37
 VEL. : 18.800

d1 (U) : -0.888
 d2 (U) : 0.227
 d3 (U) : 0.428
 du : 410.882
 u : 22.897

d1 (V) : 0.178
 d2 (V) : 0.228
 d3 (V) : -0.327
 d4 : -422.422
 d5 : -22.184

d6 (W) : 0.222
 d7 (W) : 0.178
 d8 (W) : 0.808
 d9 : -442.000
 d10 : -2.820

R.A. : 10.200
DEC. : 21.400
PM. R.A. : -152.000
PM. DEC. : -81.000
DISTANCE : 2.850
MODULUS : 37
RAD. VEL. : 16.800

q1 (U) : -0.808
q2 (U) : 0.327
q3 (U) : 0.490
dU : 416.339
U : 23.697

q1 (V) : 0.178
q2 (V) : 0.928
q3 (V) : -0.327
dV : -475.422
V : -23.164

30

q1 (W) : 0.562
q2 (W) : 0.178
q3 (W) : 0.808
dW : -445.006
W : -2.959

-0009 ± 7.8 + 019 ± 8.0

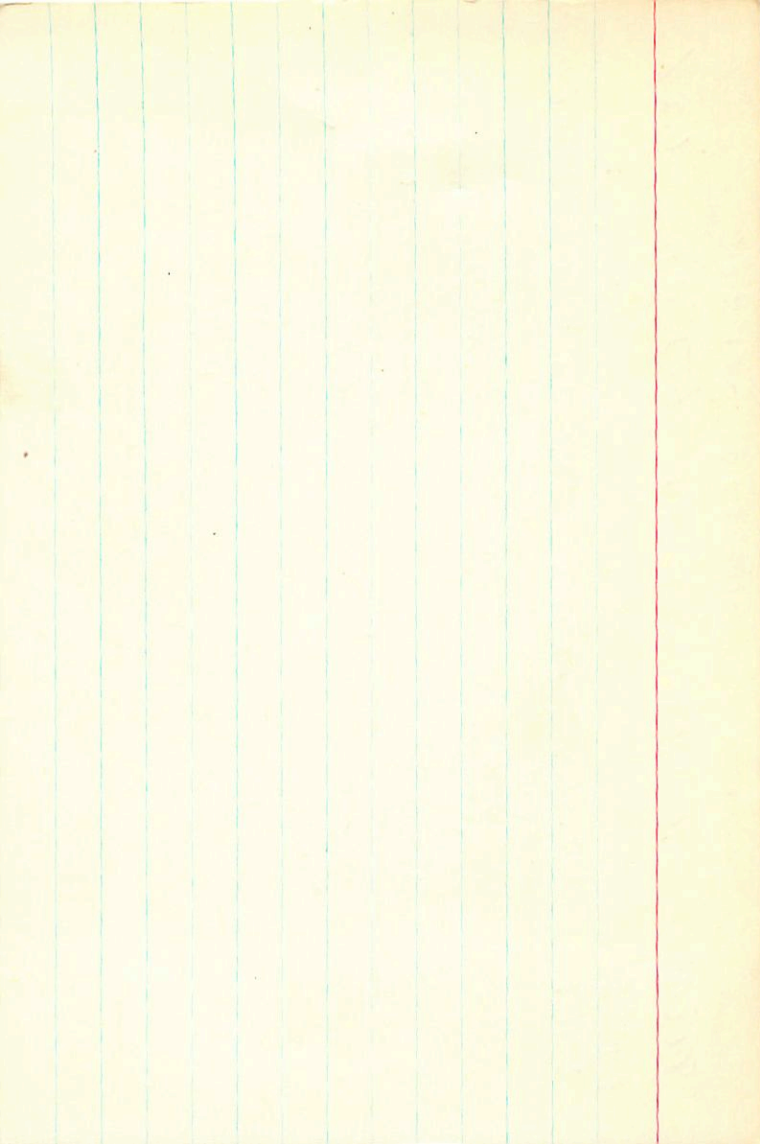
88806 10 11.8 -23 34 6.7 gm2 -6.2 δ

14060

6461 48.565 1855.5 -23 33 55.69 1846.1
049
614

38.352
10.165
48.517
20
540
+13
553

30.23 1533.33
-25.15
55.38
-5.29
55.97
+17
55.80



+7703919 GAZ

88627 10 12.7 +77 21 10.0 R6 -926

10.83 1440

+1.52 2290

+012 = 6 -011 = 6 Mc -AL

-808-222 545 / -0460 +0116 / -0344 -45.5 -50.1 / -99.6

179 789 587 / +0101 -0411 / -0310 -44.6 -540 / -98.6

560 -572 598 / +0318 +0298 / +0616 +88.7 -55.0 / +33.7



1027 255 400
1027 255 400

10 136 + 28 66 + 304

88986

31 22

205726 204182

205726 204182
1157 204182
205726

33378 495
131

33378 495
131
205726 204182

hand

1027 255 400
1027 255 400

33378 495
131

5944 51
1215

(59.7)

1027 255 400

1027 255 400

1027 255 400

1027 255 400
1027 255 400
1027 255 400
1027 255 400

1027 255 400

31

13

10.200 : R.A.
 28.920 : DEC.
 -09.000 : FM, R.A.
 -08.000 : FM, DEC.
 2.320 : DISTANCE
 30 : MODULUS
 30.400 : RAD. VEL.

-0.000 : d1 (U)
 0.200 : d2 (U)
 0.250 : d3 (U)
 122.714 : uB
 19.089 : u

0.170 : d1 (V)
 0.000 : d2 (V)
 -0.200 : d3 (V)
 -423.511 : uB
 -18.210 : u

0.200 : d1 (W)
 0.000 : d2 (W)
 0.000 : d3 (W)
 -102.000 : uB
 18.400 : u

R.A. : 10.200
DEC. : 28.950
PM. R.A. : -69.000
PM. DEC. : -88.000
DISTANCE : 2.350
MODULUS : 30
RAD. VEL. : 30.400

q1 (U) : -0.808
q2 (U) : 0.260
q3 (U) : 0.529
dU : 122.714
U : 19.689

q1 (V) : 0.178
q2 (V) : 0.963
q3 (V) : -0.203
dV : -452.511
V : -19.515

3
q1 (W) : 0.562
q2 (W) : 0.070
q3 (W) : 0.824
dW : -189.921
W : 19.456

1029

88560

90303

10 134 + 28 52
010150 1085282

2442093822589

Fig 2 33
3124 0.51

7122 2405
1267 0.75

9189 - 9186 / 6750
2474 - 3953 / 1024

1264 212 2400

7153 (9) 040 21

416 416 16

716 416 (1) 16 5 16 1809

x7

246

7 0.23 -42 16

3

53009

34081

-18.4 0.48

10.34 0.17

5549

88986

10 13.6 +28 56

dB-D

HR4027

GL14091

24 Lmi

+4.2

6.44 + 6.05 + 16 2899

421

-0.15

.357

.209

.365

2 SPC 2.589 (4)

~~378~~

170

394

ct

(259)

393

[m] 279

[c] 289

2.50 +189 -20.6 +19

+96 -459 -173

SINL: 0.9689

COSL: 0.2474

SINT: -0.9186

COST: -0.3953

R.A. : 10.200

DEC. : 28.950

R.A. : 0.000

DEC. : 0.000

STANCE : 0.000

MODULUS : 10

VEL. : 0.000

Q1 (U) : -0.808

Q2 (U) : 0.260

Q3 (U) : 0.529

dU : 0.000

U : 0.000

1 (V) : 0.178

2 (V) : 0.000

88108 10 06.9 -13 07 7.3 gms -12.36

13951

6426 56.469 1907.4 -13 6 59.89 1905.4

$$\begin{array}{r} 149 \\ \hline 1618 \end{array}$$

$$\begin{array}{r} 43.464 \\ 13.182 \\ \hline 56.646 \\ \hline 602 \\ +16 \\ \hline 618 \end{array}$$

$$\begin{array}{r} 709 + 16.55 + 1.93 \\ \hline 5.81 + 0.96 \end{array}$$

$$\begin{array}{r} 612 \\ \hline 598 \\ \hline 1269 \\ \hline 456 \\ \hline 1725 \end{array}$$

$$\begin{array}{r} 30.8 \end{array}$$

$$\begin{array}{r} +34 \\ \hline 54.03 \end{array}$$

$$\begin{array}{r} 38.22 \\ -20.01 \\ \hline 58.23 \\ -61 \\ \hline 58.84 \\ +41 \\ \hline 58.43 \end{array}$$

$$\begin{array}{r} 2.44 \\ 56.34 \\ \hline 58.78 \\ \hline 1542.11 \end{array}$$

$$\begin{array}{r} 7.38 \\ \hline 38.2 \end{array}$$

$$\begin{array}{r} 58.93 \\ \hline 58.93 \\ +9.84 \end{array}$$

$$\begin{array}{r} -0008 + 605 \\ -0010 + 604 \\ \hline -008 + 008 \end{array}$$

$$\begin{array}{r} +602 \\ \hline +602 \end{array}$$

$$\begin{array}{r} 58.64 \\ \hline +1.39 \end{array}$$

$$\begin{array}{r} 32.8 \end{array}$$

25

1860
1861
1862
1863
1864
1865
1866
1867
1868
1869
1870
1871
1872
1873
1874
1875
1876
1877
1878
1879
1880
1881
1882
1883
1884
1885
1886
1887
1888
1889
1890
1891
1892
1893
1894
1895
1896
1897
1898
1899
1900

88071.000*

10.000*

6.900*

9.000*

50.000*

-0.028*

0.004*

8.300*

457.088

5.600

0.114

0.432

54.576

-0.006

-0.511

-5.444

DEC 19 1950
PM. R. A.
PM. DEC
DISTANCE
MODULE
FAD. VEL.
01 (10)
03 (10)
05 (10)
07 (10)
09 (10)
11 (10)
13 (10)
15 (10)
17 (10)
19 (10)
21 (10)
23 (10)
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69 (10)
71 (10)
73 (10)
75 (10)
77 (10)
79 (10)
81 (10)
83 (10)
85 (10)
87 (10)
89 (10)
91 (10)
93 (10)
95 (10)
97 (10)
99 (10)

R.A.	:	
DEC.	:	10.200
PM. R.A.	:	-7.150
PM. DEC.	:	0.000
DISTANCE	:	0.000
MODULUS	:	0.000
RAD. VEL.	:	10
	:	0.000

q1 (U)	:	
q2 (U)	:	-0.808
q3 (U)	:	0.522
dU	:	0.274
U	:	0.000
	:	0.000

-1 (U)	:	
(U)	:	0.178
(U)	:	

88609

10

112

+53

49

-362 (6)

+541359

85-111 W 2

10004-023

861 0675 085 540

88986 10 13.6 +28 56 d60

H04027
G614091
24L mi

6.46 + 6.05 + 16 2599

425

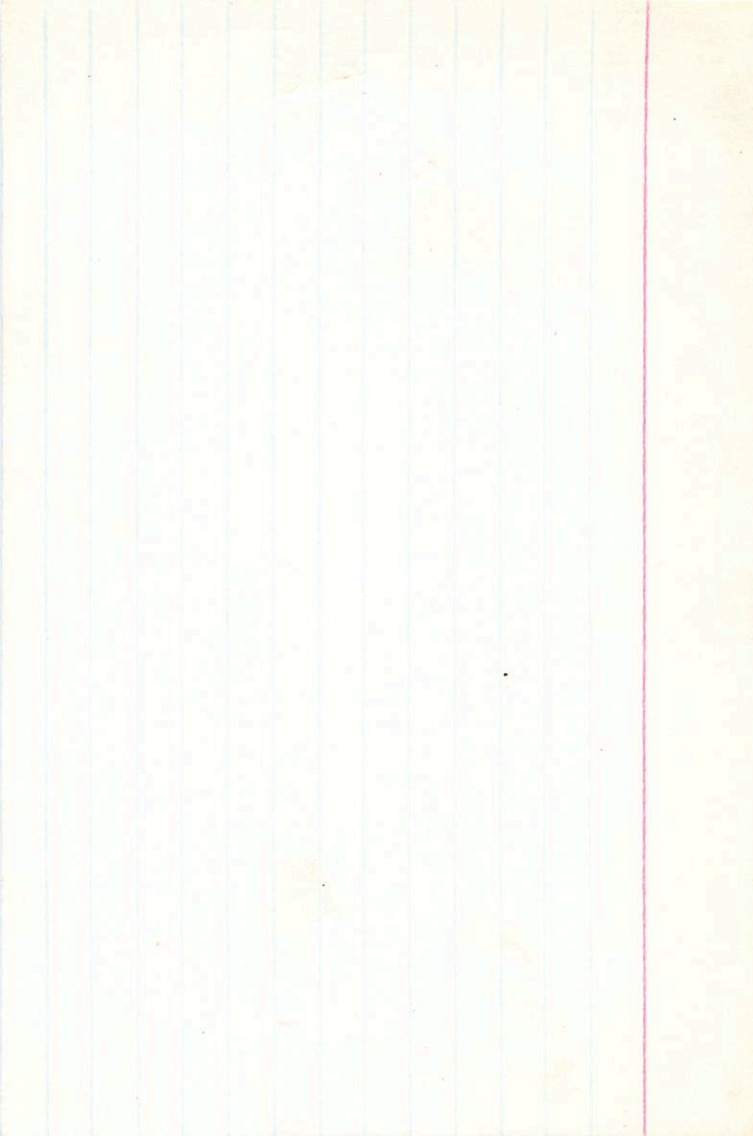
0.357 .209 .25 PC 2.5894
~~0.18~~ 170 394
0.15
0.15
393

[m] 279
[c] 289

6+

2.553

2.50 + 1.89 - 2.06 + 1.97
+ 56 - 4.59 - 1.73



SINL: 0.9689
COSL: 0.2474

SINT: -0.9186
COST: -0.3953

R.A. : 10.200
DEC. : 28.950
R.A. : 0.000
DEC. : 0.000
DISTANCE : 0.000
MODULUS : 10
VEL. : 0.000

q1 (U) : -0.808
q2 (U) : 0.260
q3 (U) : 0.529
dU : 0.000
U : 0.000

q1 (V) : 0.178
q2 (V) : 0.963
q3 (V) : -0.203
dV : 0.000
V : 0.000

q1 (W) : 0.562
q2 (W) : 0.070
q3 (W) : 0.824
dW : 0.000
W : 0.000

