

$\begin{array}{r} -000203.4 \\ -0000 \\ \hline -000203.4 \end{array}$

$\begin{array}{r} -012 \\ -013 \\ \hline -025 \end{array}$

180262

19

$\begin{array}{r} +1500 \\ 5.7907 \\ -2510 \end{array}$

26539

$\begin{array}{r} 0000 \\ -0003 \\ \hline -0003 \end{array}$

$-200$

11706

3.316

$\begin{array}{r} +1459 \\ 42.419111 \end{array}$

$\begin{array}{r} 7 \\ 323 \end{array}$

$\begin{array}{r} 33246570 \\ \underline{\quad} \\ 312 \end{array}$

$\begin{array}{r} .54 \\ \underline{\quad} \\ 95 \end{array}$

$\begin{array}{r} -0003 \\ -0001 \\ \hline -0100 \end{array}$

3.317

21.7

$\begin{array}{r} 42.48 \\ \underline{\quad} \\ 42.48 \end{array}$

$\begin{array}{r} 1934.3 \\ \hline \text{FOUR} - 0.1 \end{array}$

316

$\begin{array}{r} 42.59 \\ \underline{\quad} \\ 42.59 \end{array}$

42

$\begin{array}{r} 3.317 \\ \underline{-8} \\ 309 \end{array}$

$\begin{array}{r} 42.97 \\ \underline{\quad} \\ 42.97 \end{array}$

21.7

$\begin{array}{r} 42.73 \\ \underline{\quad} \\ 42.73 \end{array}$

468

$\begin{array}{r} 42.66 \\ \underline{\quad} \\ 42.66 \end{array}$

$\begin{array}{r} 373 \\ \hline 26.2 \end{array}$

4.39

$\begin{array}{r} 3320 \\ \underline{-8} \\ 309 \end{array}$

25.1

$\begin{array}{r} 42.73 \\ \underline{\quad} \\ 42.73 \end{array}$

$\begin{array}{r} 468 \\ \hline 26.2 \end{array}$

$\begin{array}{r} -29 \end{array}$

(X)

7300

19

13.0

+ 14 59

65 II P

180262

+ 11

62592

5.5-7 + 1.10 + 0.85 (Y)

501

450

56

- 11

- 01

5.38 + 0.38 (stand)

7.68 + 0.10 + 0.03 (Y)

2.1  
3.58

+ 2

- 0004 - 0125

+ 00  
- 0020 - 0008

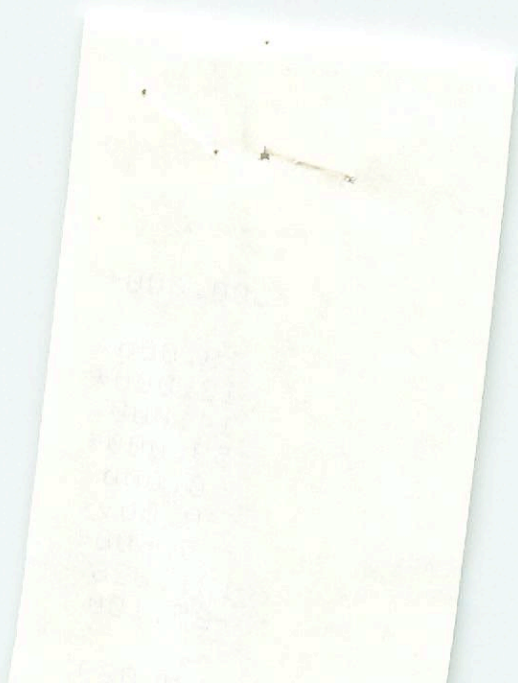
25

25

- 0024

0000 - 0009

26



7300.000\*

19.000\*

13.000\*

14.000\*

59.000\*

0.000\*

-0.009\*

5.600\*

131.826

-25.100

0.029

1.55  
0.0  
0.0  
W

VEL. : -25.100  
DISTANCE : 4.390  
DEC. : -11.000  
R.A. : 2.000  
DEC. : 15.000  
R.A. : 17.200

1 (U) : 0.333  
2 (U) : 0.677  
3 (U) : -0.657  
DB : -32.252  
V : 10.040

1 (V) : 0.333  
2 (V) : 0.677  
3 (V) : 0.750  
DB : -20.440  
V : -20.450

1 (W) : -0.880  
2 (W) : 0.480  
3 (W) : 0.830  
DB : -32.440  
W : -3.280

W

R.A. : 19.200  
DEC. : 15.000  
R.A. : 2.000  
DEC. : -11.000  
DISTANCE : 4.390  
MODULUS : 76  
VEL. : -25.100

1 (U) : 0.333  
2 (U) : 0.677  
3 (U) : -0.657  
dU : -32.222  
U : 14.048

1 (V) : 0.329  
2 (V) : 0.569  
3 (V) : 0.753  
dV : -26.649  
V : -20.925

1 (W) : -0.883  
2 (W) : 0.468  
3 (W) : 0.033  
dW : -32.466  
W : -3.285

26

180063

19 13.3

-88 36

HA725H

14.2

-326

+19

+6

9.2

-23

1.4

1.5

1.6

1.7

1.8

2.4  
Several large holes per 0

10010 +004 Cape

2.3  
Cape Annals 10010

10013 +007

10162

1015 +006



468038 32.0874  
244 0260.25

27





10075) 19 13.8 + 0013 + 021  
26558 04 70 A9m -50.

11717 46.303 1893.8  
-107  
1196

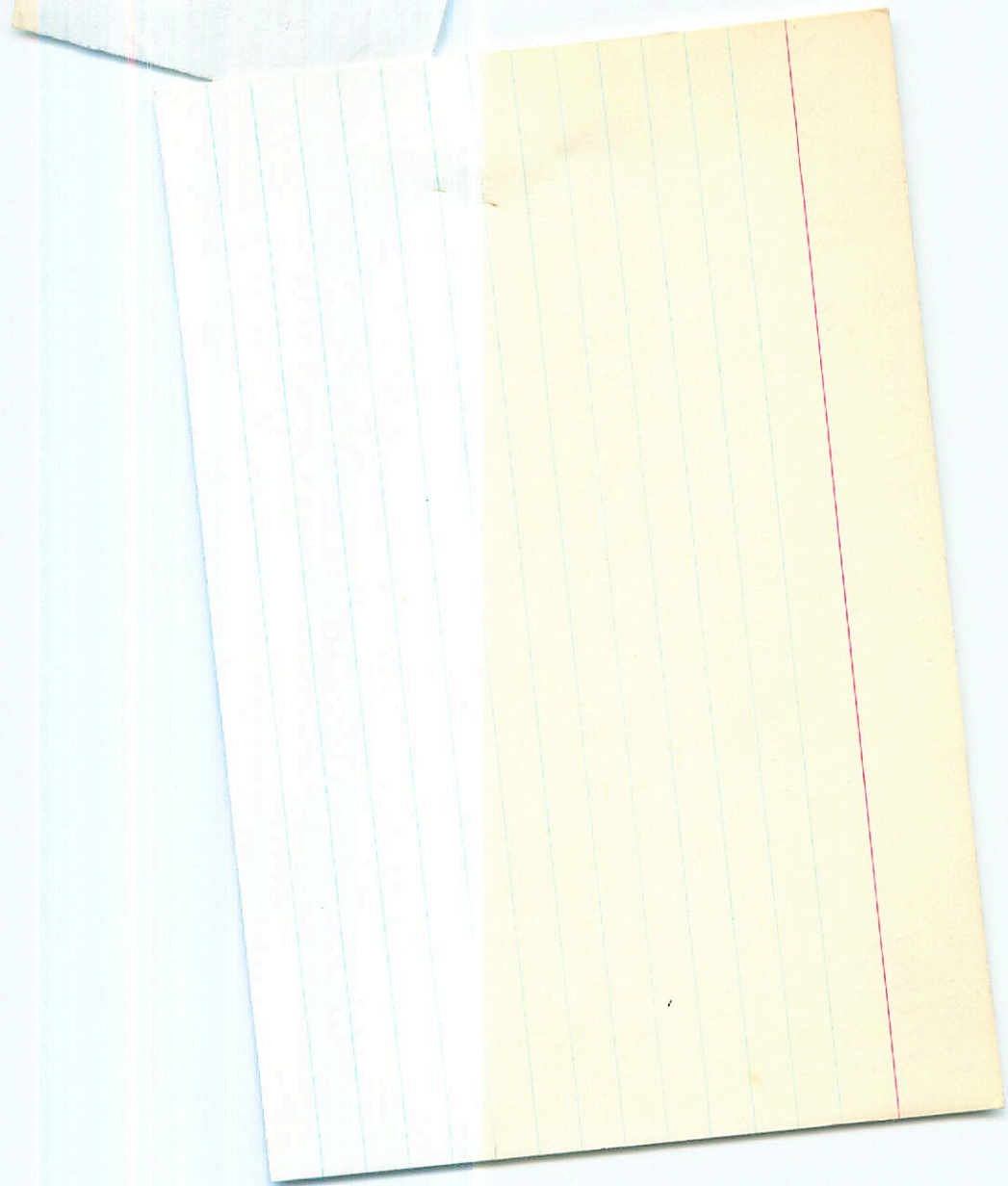
+16 4 16.06 18502  
-96

46.224 '06  
0  
46.282

15.10  
16.15 19 33.9  
10.25

253  
+057  
43.0

15.85 1939.71  
+11 361  
1596  
36.8  
16.10  
416.6  
+ 1.00





RSyn  
180275

268.5  
19 13.8 -19 24 6.625 gms -456

+0004 ± 6.0  
-0001  
+018 ± 6.1  
+011

26557

+010

+006 +007  
+007 +009

m(269)

11716

45.770 1786.2

-19 23 49.21 1887.4

8.0 / 1000  
+51.4 +25  
+14.8 +71  
+9.8 -5

-026  
744

+0004 +015

17.727  
28.030  
45.757  
737  
0

+015 -12 m F109 ±4.0  
+018 -10 Y PKY ±4.0  
+010 +4 Maria ±4.0  
+ 4 -12 Costume <0.0

-1.13  
50.39

27.69 1935.66  
3548

10.1

+011 -7  
116

5221  
156

1926

48.4

34.6  
37.2

6.7  
62.7  
224  
408  
51

45.751

16

+011 -7

24 -50  
22 -50  
8 -107  
72

50.34 9988  
50.31

1533.60

37.2

744  
740  
-004

49.58

49.57  
49.94  
40

28





180275.000\*

19.000\*



651  
3ch

180134

19

14.2

-53 29

1-107297

6626573

$6.36 + 49 - 0.02 = 6.83$

6.35 333 154 442 2635③

0,7,10,10,7

214

2000

+24.1 -2.4 +7.5 +0.07

+148 -334 -102 -0.50

494

4  
1-10

11

280

277

45  
19  
24

-23.5

HPD 246

180134 19 14.2 -53 29 FEB -23.5-4C

FW1253

GC2653

6.37 +0.44 1.60

-106

600 -085

-0016 ± 9.5

10.529 1903.3 +0004

35.80 1899.2

4.31

$$\frac{0.01}{620} \frac{-0006 -087}{+0008 -080}$$

31.49

72.29 1931.32

10.944

54.778

10.723

72.4183

35.22

37.08

36.59 -36.58

35.5 1938.6

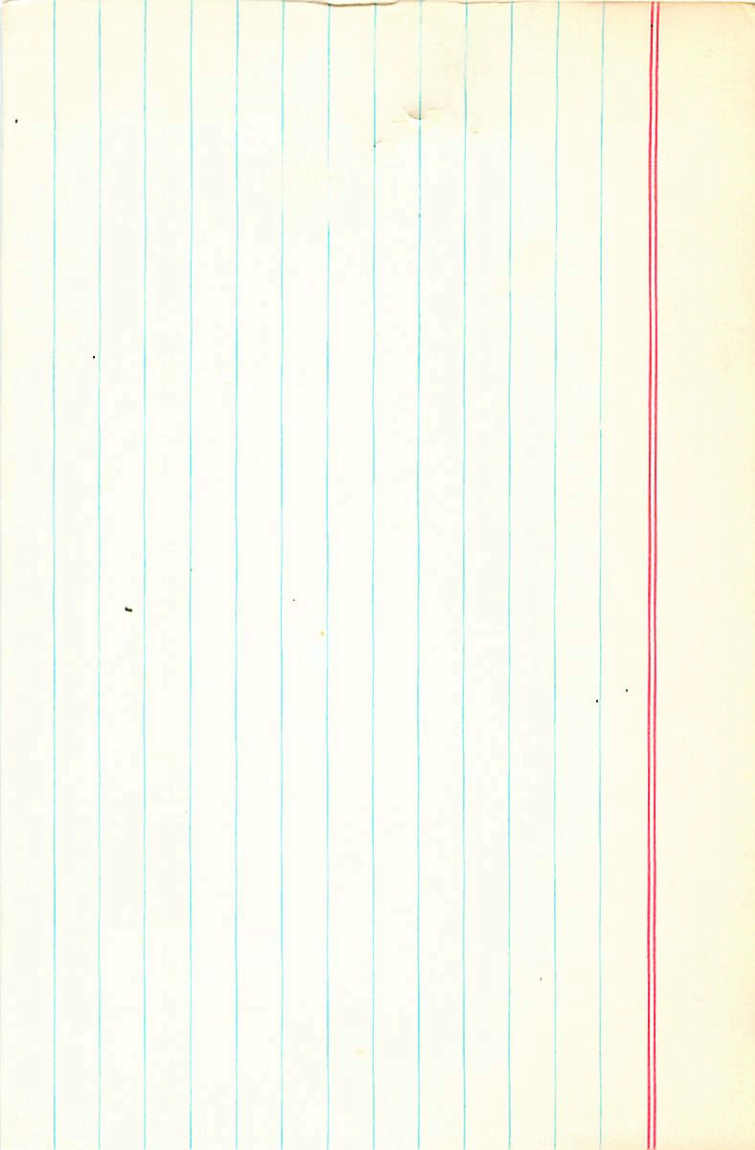
-14

35.66

10.629

1.74

16.3



180 983

19 146 -56 14

B 5 10

B 2 1

+162.06

-0042 -019 Copy P<sub>2</sub>  
- 4 -7

-0048 -026 Copy P<sub>2</sub> → GC

-0035 -016 GC

-0046 -019 new

-0043 -020

-0037<sup>5</sup> -015 F 144

-031<sup>2</sup>

-034 -016

9.45



$33.729$   
 $\overset{184}{\overline{)913}}$   
 $1847.8$   
 $-0035721$   
 $-0046$   
 $+019$   
 $-016$   
 $+53$   
 $8.05$   
 $18930$

$8.14 -$

62

$24.819$   
 $4352$   
 $33.911$   
 $\overset{106}{\overline{)106}}$   
 $-0046$   
 $+001$

$42.07$   
 $1525.30$

$33.905$   
 $41$   
 $\overset{764}{\overline{)764}}$   
 $2.14$   
 $\overset{9.05}{\overline{)9.05}}$

$11.19$   
 $2.14$

$764$   
 $-149$

$5.84$   
 $\overline{)40}$



180183.000\*

19.000\*

14.600\*

-56.000\*

-14.000\*

-0.034\*

-0.016\*

9.950\*

977.237

162.000

-0.025

-0.050

$-0016 + 3.4$      $+288 = 2.6$      $-363$   
 $-6008$      $+280$   
 181096    19    15.4    +46    54    6.0    dF3 -44.0a

26604

11747

25.229    18913    +46    54    14.86    1884.5

$\begin{array}{r} 094 \\ \hline ,323 \end{array}$

$\begin{array}{r} 18.84 \\ \hline 5-6.00 \end{array}$

$\begin{array}{r} 42.24 \\ 43.50 \\ 25.290 \\ +1 \\ \hline 291 \end{array}$

37.3

$\begin{array}{r} 27.3 \\ 40.45 \\ \hline 7.78 \\ 23 \\ \hline 8.51 \\ \hline 8.49 \end{array}$

1927.5

$\begin{array}{r} 28.6 \\ \hline 44.1 \end{array}$

$\begin{array}{r} 291 \\ \hline 32 \\ \hline 295 \\ -028 \end{array}$

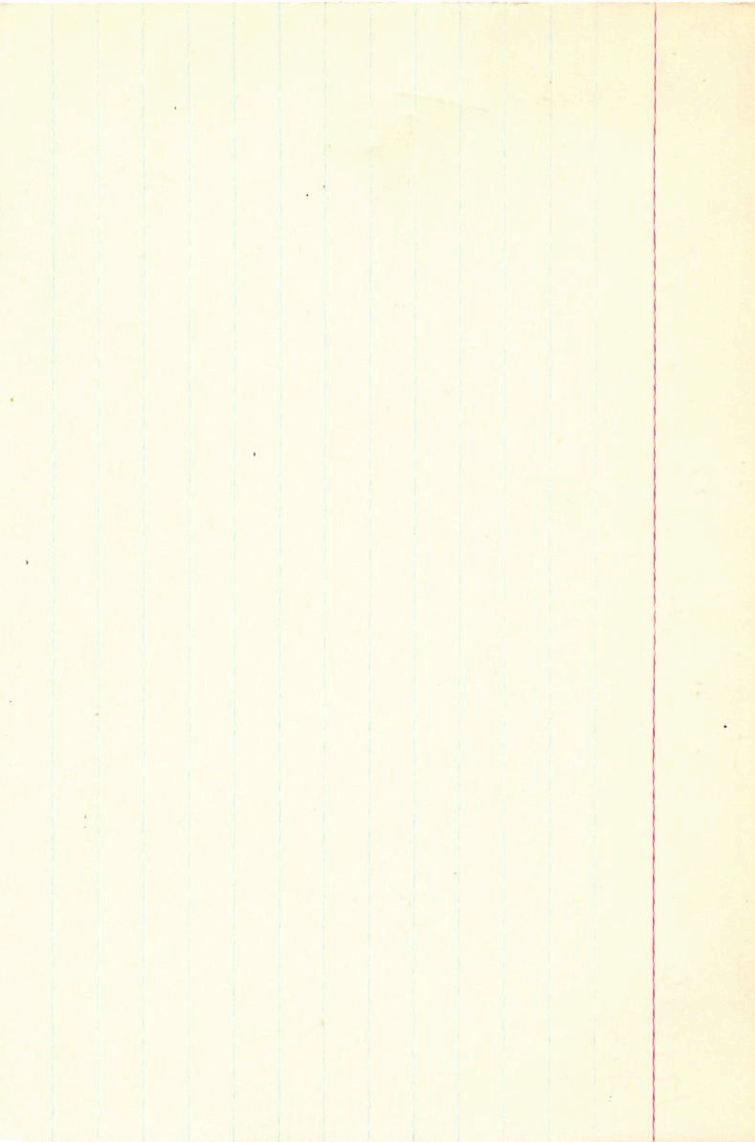
$\begin{array}{r} 8.51 \\ \hline 8.49 \\ \hline 9.49 \end{array}$

$\begin{array}{r} 8.64 \\ \hline 12.64 \end{array}$

$\begin{array}{r} 25.299 \\ \hline 299 \end{array}$

$\begin{array}{r} 9.49 \\ -31 \\ \hline 8.79 \end{array}$

1929.7



$$+0007 \pm 9.5 + 001 \pm 9.5 \quad P = 4.48$$

$$0000 - 017$$

$$-21.48$$

$$BS + A2$$

RS und  
180939

19 15.5

+22

21

6.9

BS + A2

20611

211 Ok

11750

32.249

+22

21

0.30

1900.7

$$-034$$

$$-65$$

$$\frac{215}{1}$$

$$\frac{0.25}{0.25}$$

32.218

59.64

19344

636

$$\frac{214}{-4}$$

$$\frac{59.78}{11}$$

30.6

32.214

5980

1929.20

$$+2$$

$$-12$$

$$\frac{217}{59.68}$$

$$\frac{31.8}{31.8}$$

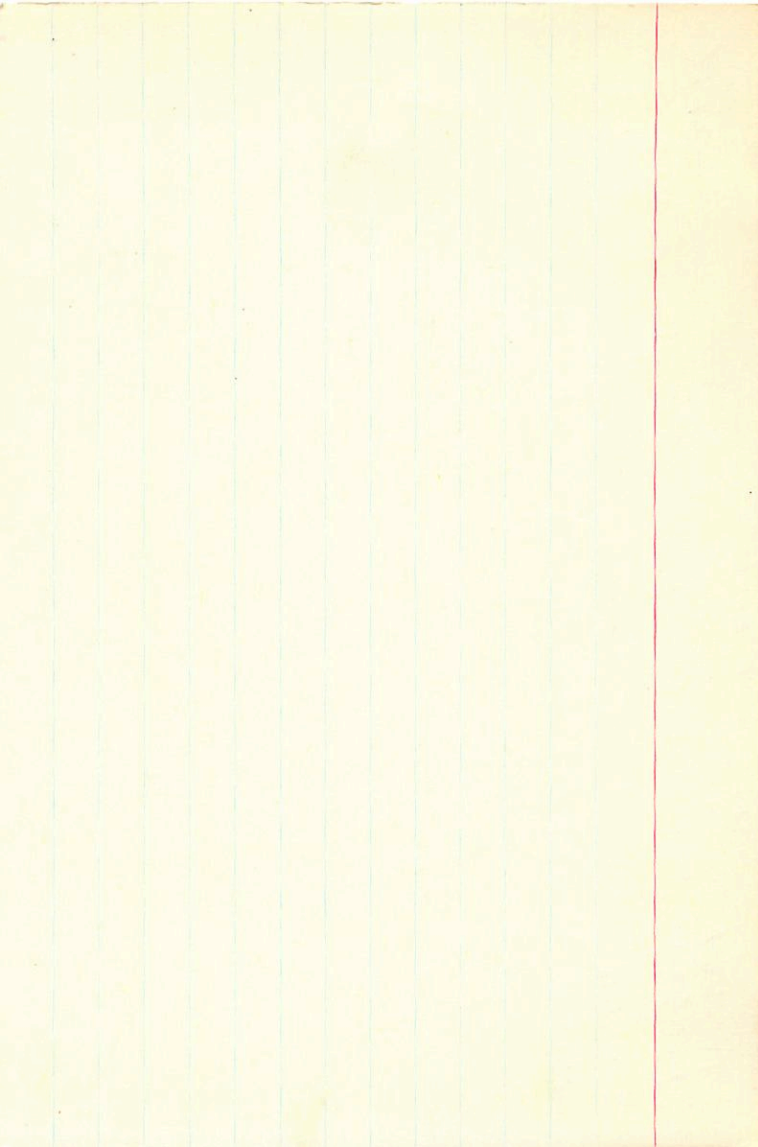
$$\frac{216}{216}$$

$$\frac{31.1}{31.1}$$

$$\frac{1001}{1001}$$

$$\frac{53}{53}$$





W Agd  
180968

19 15.5 +11 30 5.1 A3m -14.38

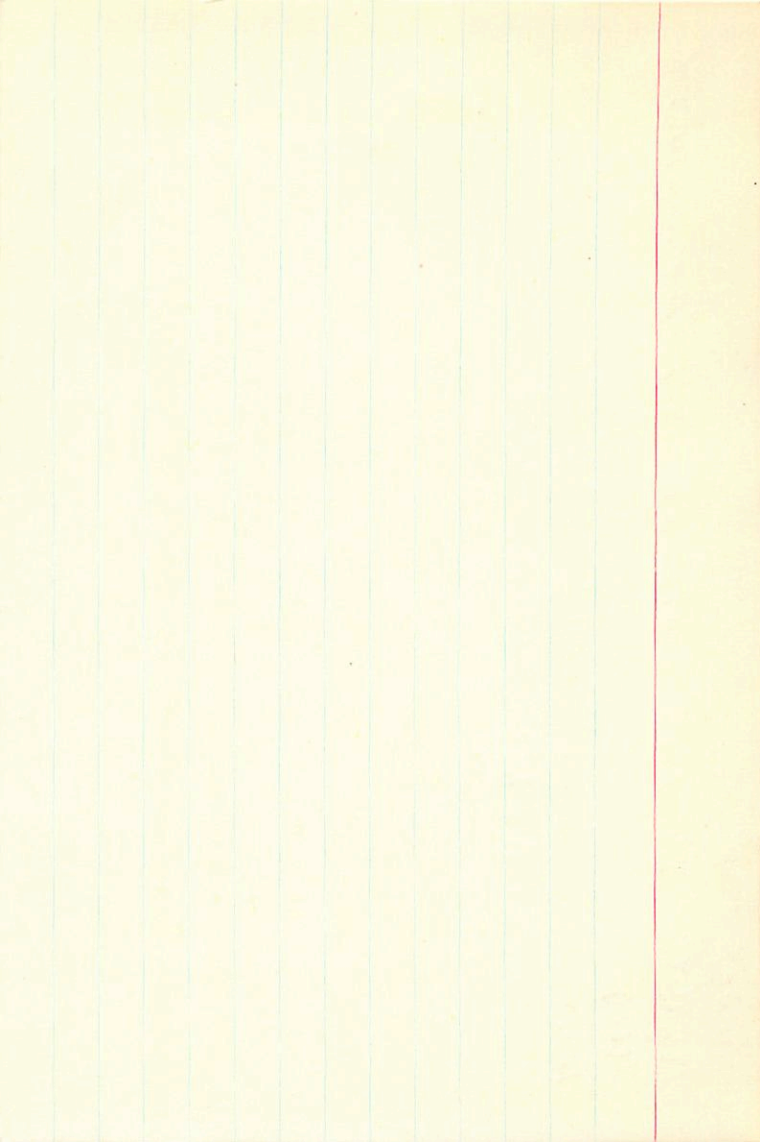
26609

-0002<sup>90</sup> +016<sup>86</sup> N30

11748

-0001 ± 0.1 +015 ± 1.066 → N30





22403708

181098

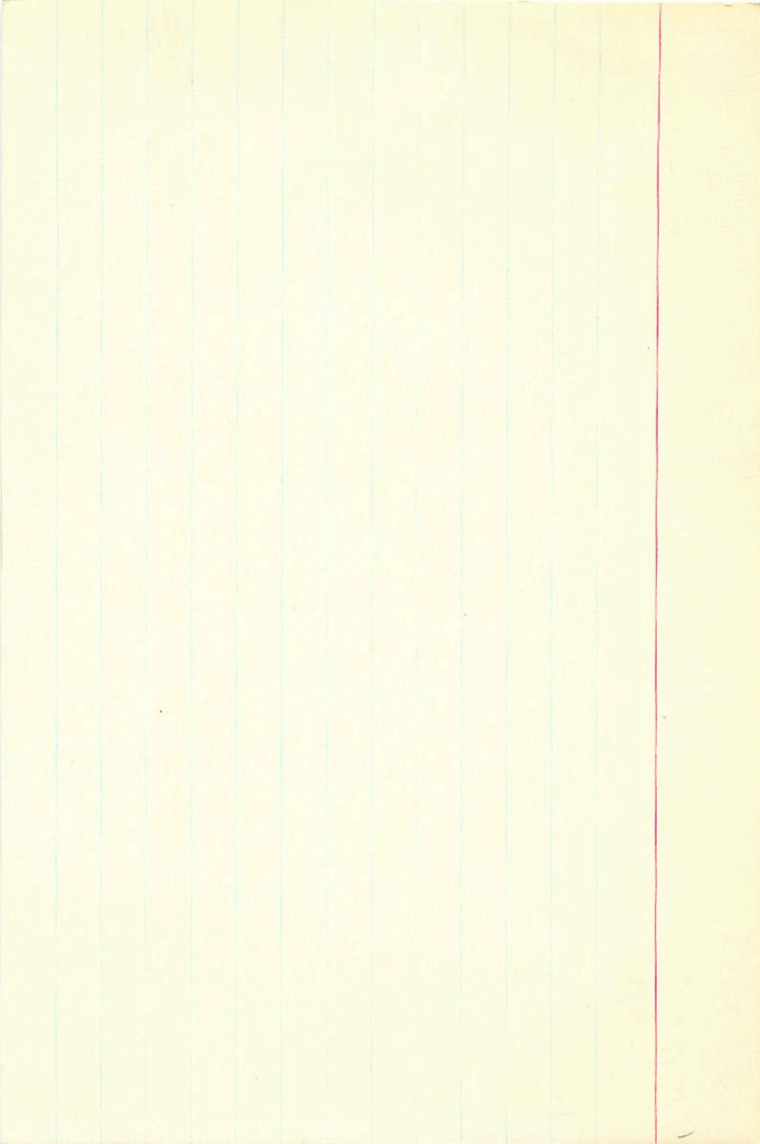
02519

11759

19 16.1 +24 19 7.1 85 -24.08

+078 +148

$\frac{080}{2}$   $\frac{147}{147}$



181358  
+5402118  
11762

19 16.2

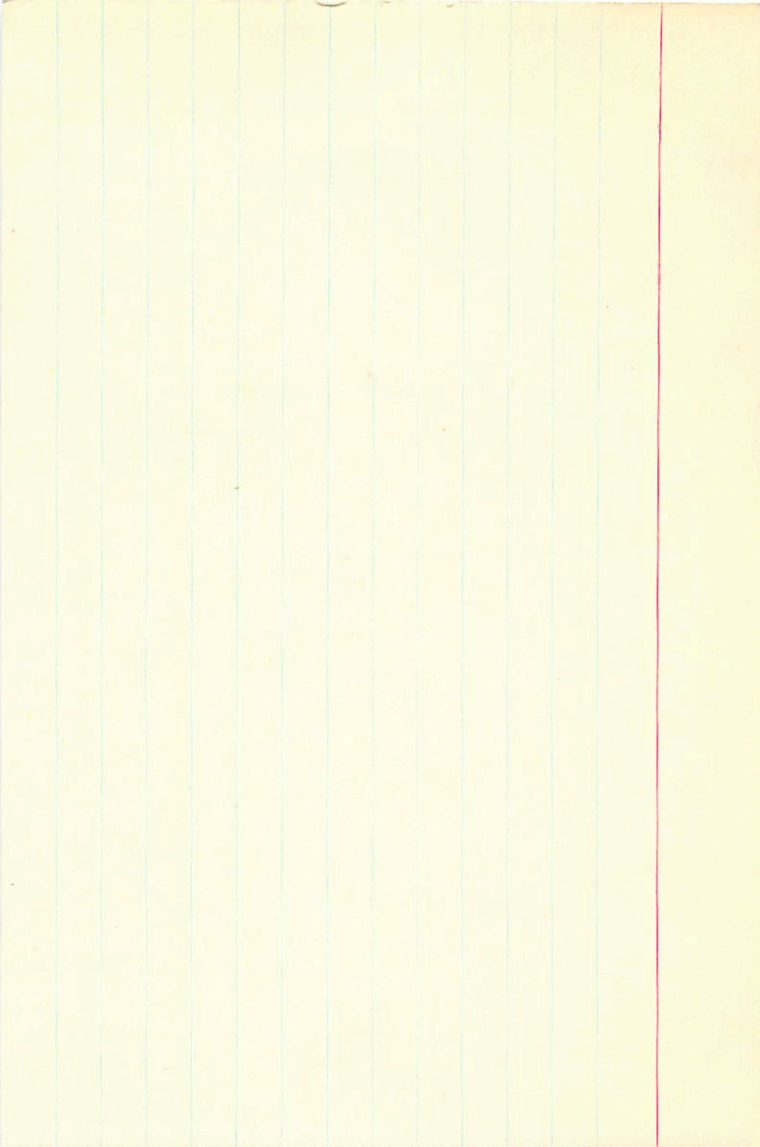
754 12

8.1 ng FL<sub>0</sub>

-542

FL<sub>0</sub> 2L

-023 +038 ✓  
+1  
~~-022~~ 040



181099

19 16.3

+16 36

2.2

A3

-35.87

<sup>40</sup>

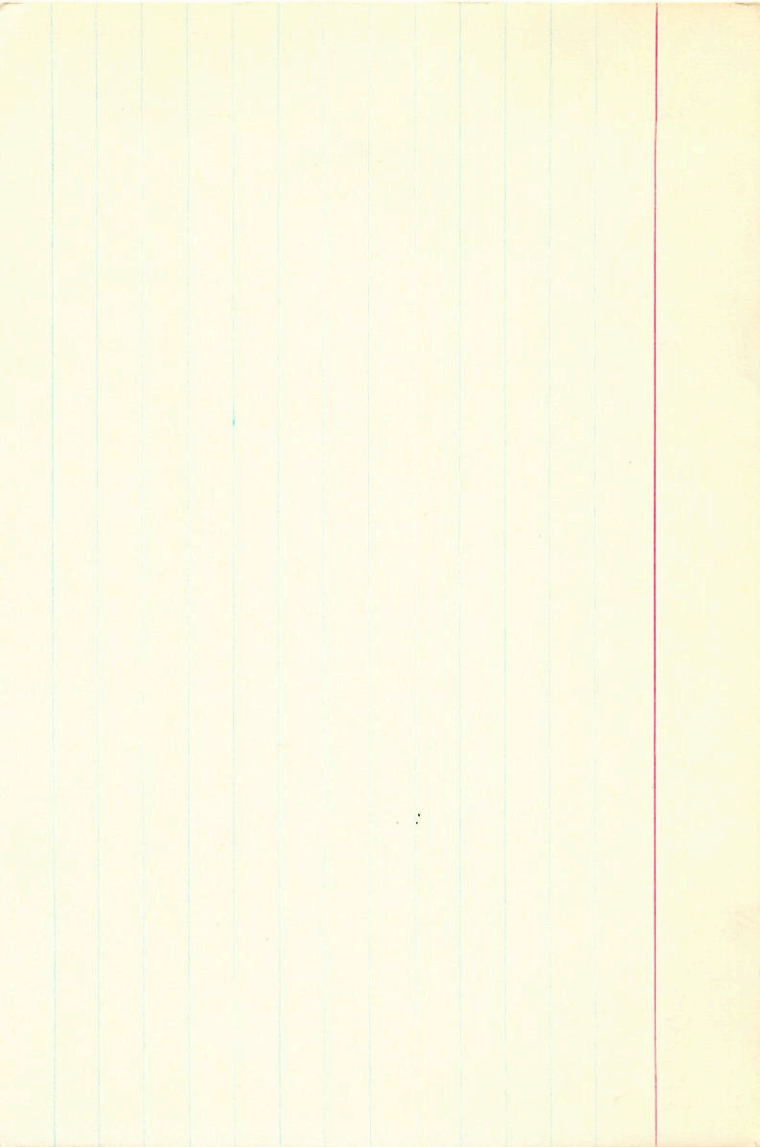
+1603809

11763

-0003

-033

Gm 50



$$-0028 \pm 5.4 \quad -023 \pm 6.1$$

$$\text{Sp.B. } \rho =$$

181144 19 16.5 +16 24 6.9 17 -4.4a

26637

Orbit

11772

30.067 1918.5 +16 23 44.87 1917.3

$$\begin{array}{r} .88 \\ \hline 155 \end{array}$$

$$\begin{array}{r} .75 \\ \hline 4562 \end{array}$$

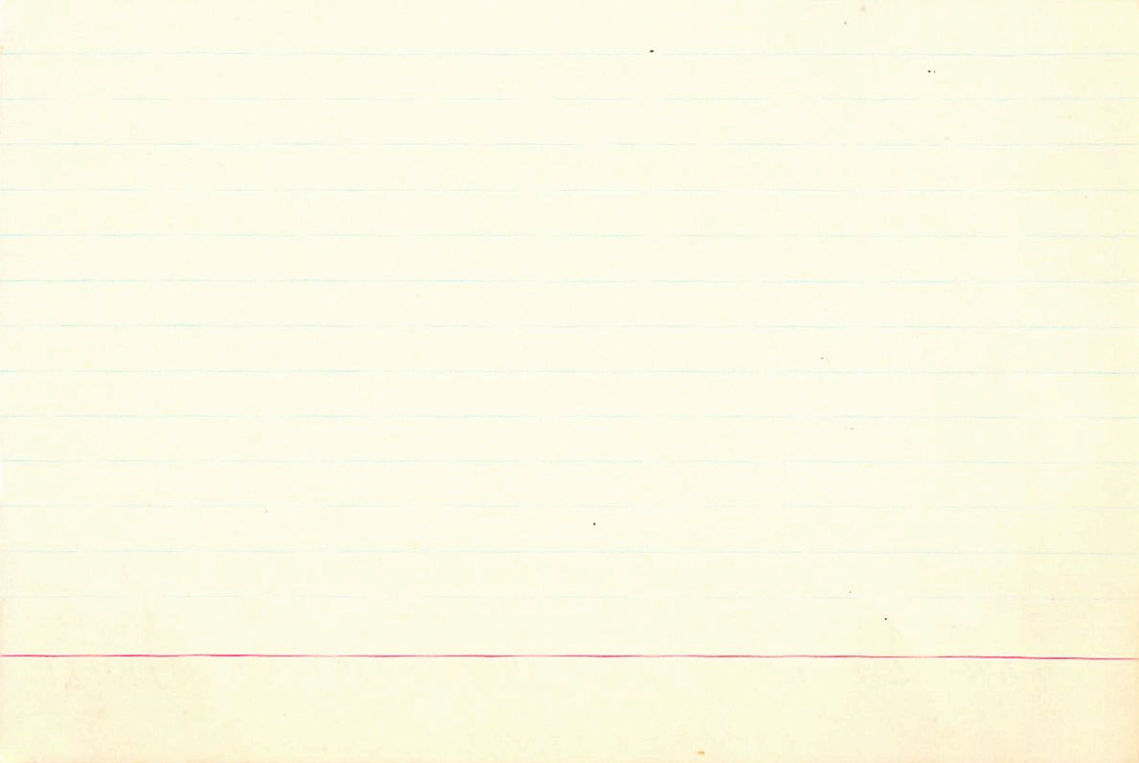
$$\begin{array}{r} 30.126 \\ \hline 126 \end{array}$$

$$\begin{array}{r} 4528434.0 \\ \hline 10 \\ \hline 4538 \end{array}$$

$$\begin{array}{r} 30.102 \\ \hline 0 \\ \hline 114 \\ \hline 140 \\ -041 \end{array}$$

$$\begin{array}{r} 4538 \quad (489.71) \\ +14 \\ \hline 4552 \\ \hline 4545 \\ \hline 17 \end{array}$$





$$\begin{aligned} &+0012 \pm 5.8 & -001 \pm 5.5 & p = 3.38 \\ &+0000 & -004 & \end{aligned}$$

$$\begin{array}{r} 181182 \\ + 1916.6 \\ + 1931 \\ + 6.4 \\ + 8962 \\ - 17.1a \end{array}$$

26689

1001 (Subst)  
490 (Subst)

26p

$$\begin{array}{r} 37.053 \\ - 052 \\ \hline 37.001 \end{array}$$

$$\begin{array}{r} 1907.0 \\ + 1931 \\ + 3.81 \\ + 04 \\ \hline 3.85 \end{array}$$

$$\begin{array}{r} 37.035 \\ 0 \end{array}$$

$$3.74 \quad 1934.0$$

$$\begin{array}{r} 37.020 \\ 0 \\ \hline 028 \\ + 027 \end{array}$$

$$\begin{array}{r} 29.9 \end{array}$$

$$3.84$$

$$371$$

$$\begin{array}{r} 0 \\ \hline 028 \\ + 027 \end{array}$$

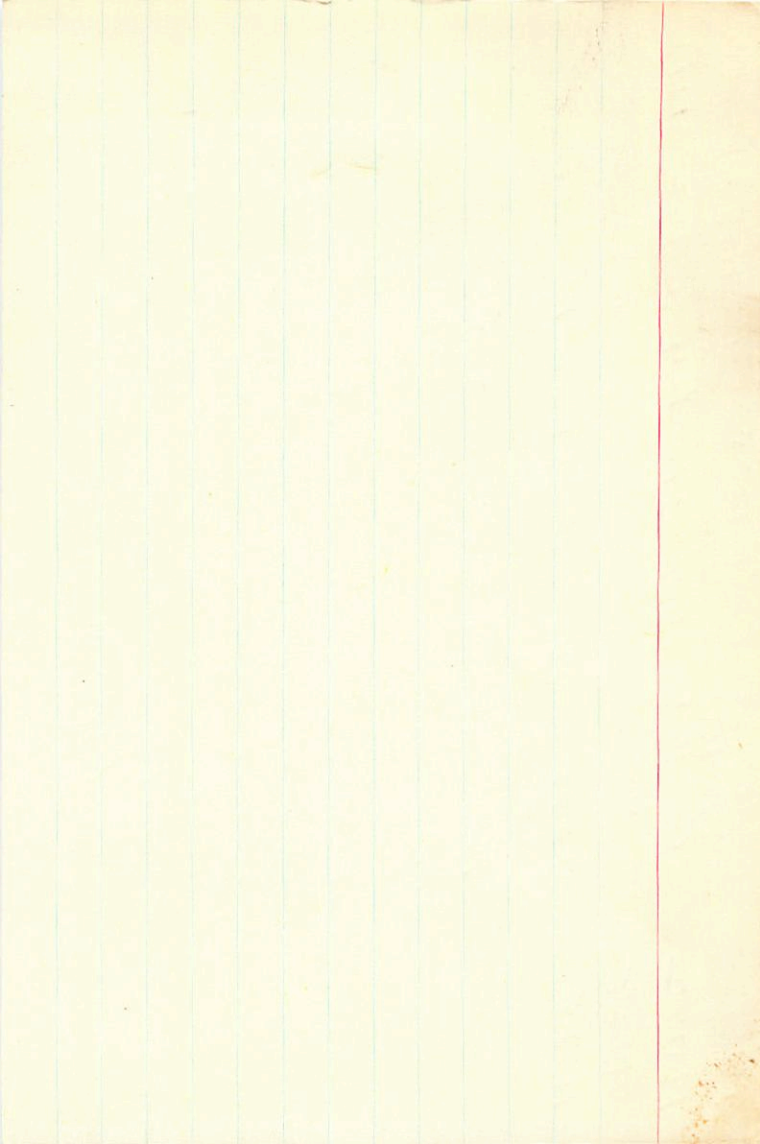
$$3.49 \quad 193971$$

$$\begin{array}{r} 14 \\ \hline 3.63 \\ \hline 3.74 \\ - 11 \end{array}$$

$$36.9$$

$$30.1$$

$$37.022 \quad (626) \quad 490$$



25491  
181333 19 17.3 +12 17 5.4 g FO +3.28  
26654 010 +1.85  
11786 19.290 1892.4 +12 16 51.28 1891.2 4.8

352 640-683  
315 606 730  
-550 473-012  
19.262  
-012  
278

+0002 +0.019  
1st 50 Cond

-1.00  
50.22  
50.38 19342 3.70  
11

+0050 +0576 +0626  
+0045 +0546 +0591  
-0125 +0425 +0300  
19.305  
-13  
292

44.4

50.49  
50.63 1939.46  
-1 1366  
50.62 36.8

+6.3 -2.2 +4.1  
+5.9 +2.3 +8.0  
+30 0 +30  
279  
+001

B -002 +006  
+005 -004

50.56  
+34  
45.6

+6.4 -2.2  
140 228  
+1.1  
61 "South  
+1203580

30



50

19 . 388

12 . 388

18 . 888

18 . 888

4 . 888

91

3 . 288

8 . 354

8 . 643

18 . 679

41 . 722

1 . 632

8 . 314

8 . 682

8 . 734

69 . 726

5 . 972

18 . 881

8 . 474

18 . 811

73 . 838

6 . 624

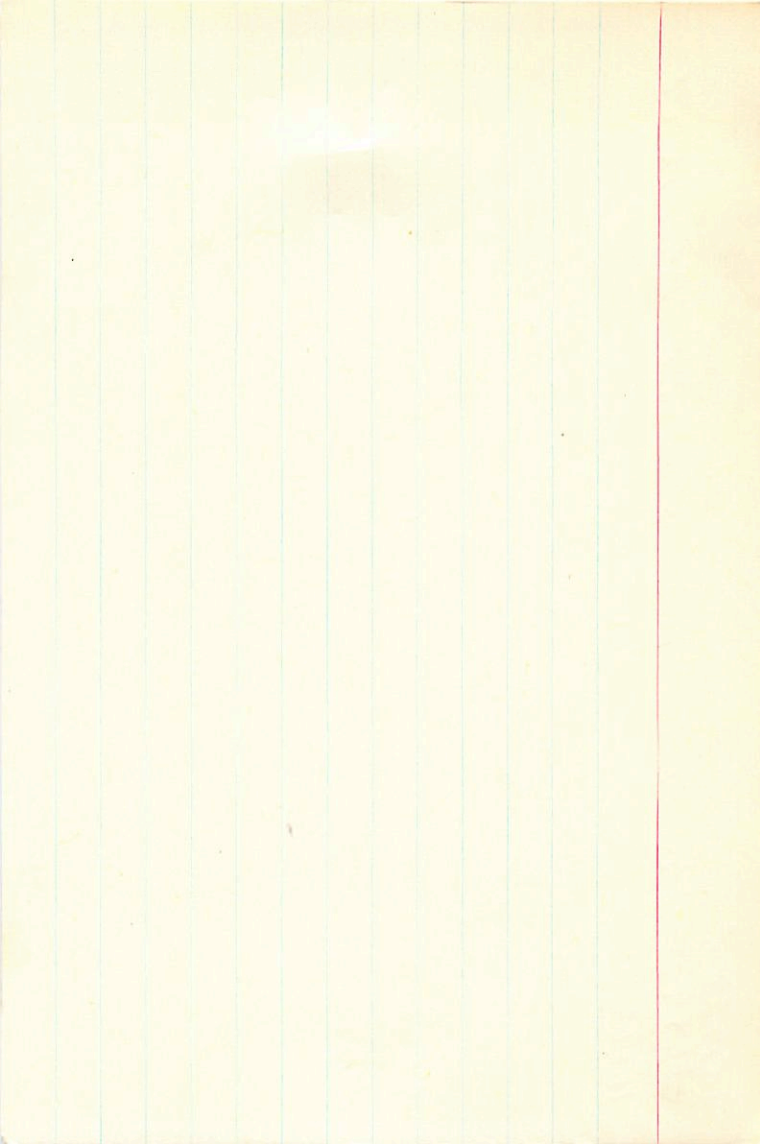
30

181799  
26659

19 17.5 760 52 7.0 B9 -18.30

11788





$$\begin{array}{r} +0.165 - \pm 7.3 \\ +0.096 \\ \hline -0.13 \pm 6.3 \\ +0.02 \end{array}$$

9/10

181425

$$\begin{array}{r} 19 \ 18.5 \\ 18.4 \\ \hline -29 \ 42 \\ -29 \ 37 \end{array}$$

A +36420.9

161544(0)

$$\begin{array}{r} A \ 2.09 + 0.56 \\ \hline 6.04 \end{array}$$

B +36440.65

26681  
26694

$$\begin{array}{r} B \ 7.08 + 0.57 \\ \hline 6.01 \end{array}$$

$$\begin{array}{r} 540231897.9 \\ -547 \\ \hline 53476 \end{array}$$

$$\begin{array}{r} 8.34 \ 1894.1 \\ \hline 73 \end{array}$$

-2996026 A

-2906041 B

$$\begin{array}{r} 19073 \\ 34775 \\ \hline 53848 \end{array}$$

$$\begin{array}{r} 7.61 \\ \hline 55.24 \ 158422 \\ \hline 1586 \end{array}$$

$$\begin{array}{r} 711654 \\ \hline -010 \pm 4 \ A \end{array}$$

$$\begin{array}{r} 713756 \\ \hline -013 \pm 6 \ B \end{array}$$

26641

$$\begin{array}{r} 53848 \\ 118 \\ \hline 53966 \end{array}$$

$$\begin{array}{r} 9.36 \\ \hline 9.36 \end{array}$$

$$\begin{array}{r} 718 + 12854 \\ \hline -03454 \ A \end{array}$$

$$\begin{array}{r} 35.9 + 123 \pm 9 \\ \hline -04 \pm 9 \ B \end{array}$$

-19 + 14 - 49

$$\begin{array}{r} 0.25 \\ \hline 118 \end{array}$$

$$\begin{array}{r} 9.71 \\ \hline 9.71 \end{array}$$

$$\begin{array}{r} (110) + 124 \\ \hline -011 \end{array}$$

$$\begin{array}{r} 11.004 \\ 37.88 \\ \hline 48.884 \end{array}$$

$$\begin{array}{r} 1937.60 \\ \hline 1937.60 \end{array}$$

$$\begin{array}{r} 19.90 \\ \hline 19.90 \end{array}$$

$$\begin{array}{r} 7.5 \\ \hline 7.5 \end{array}$$

$$\begin{array}{r} 53848 \\ 26681 \\ \hline 56516 \end{array}$$

$$\begin{array}{r} 7.26 \\ 7.26 \\ \hline 14.52 \\ \hline 14.52 \end{array}$$

$$\begin{array}{r} 7.5 \\ \hline 7.5 \end{array}$$

10089542 -010741  
10094  
-942336 -484869 +124-011 +36.4005-18-047 ✓

117 005 042 002 - 545 223 +316 +11 -30

29.334 15039 4 2442 246 14045 - 47-15-21 015

1.98  
-19 +14 -49

46.83 193542  
45.02

2.167  
2.119

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193734

9.33 2.34  
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2.125 194055  
2.125

29.334  
29.334  
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36.5

2.26  
2.26

5.1304

3.7623

29.334

29.334  
29.334  
29.334

2.51

181296

14 18.8 -54 31 AVE M +1464 40

FD1036

+120 50  
+13

5.04 +02 (1.52)

+0033 -074 N30

+0037 -067 62

+0032 -071

+030

49383 84 40017 024 288 3.5  
7.57 41.14

$\frac{-70}{323}$   
40028 -083  $\frac{3.44}{4.94}$

49441

~~-34~~  
405 40026 -084  $\frac{-4}{5.57}$

400319 -092  
~~400278~~  
407

49.500  $\frac{4025.5 - 0808}{9.50}$  (6940)

~~49~~  
Dog

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19.200  
-51.500  
-21.500  
-75.000  
3.650  
54  
13.000

6.354  
70.971  
70.858  
70.832  
5.207

0.314  
0.912  
-0.264  
-342.767  
-21.842

-0.881

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7  
6  
5  
4  
3  
2  
1

3



-6.278

19.300  
-54.500  
44.000  
-80.500  
3.750

56.24 35.76  
13.000

0.354  
-0.371  
-0.858  
184.408  
-0.789  
26.91

2.1

0.314  
0.912  
-0.264  
-309.903  
-20.861  
-0.9

1.86

-0.881  
0.176  
-0.440  
-173.833  
-15.492  
-0.57

3.1

1.1

7<sup>SE</sup> 7' South

29. 56.2

5.0Y - 0.2  
v.s. 2.3

1.001 2.917  
3.918

-0.956 0.844  
9.889 -0.003  
-4.524

7829 19 18.8-54 3 40

.001 1.65 9.92

181296

266992

5.04 40.2 40.5 C

0.001 1.58 1.00 2.916

5.03 0.00 1.34 1.00 3.2.514 0.10.81.5

11.2 0.00

$r = 4.95$   
 $r = 4.10$

140

250

1.67 2

413.0

1.030-0.07

-0.006 = a

n = 0.002

1.4

4607 2074 (Doubtful)  
40141  
4012.1-0.75

1282

1293

14.3

-54.5

~~2.5~~ + 44

~~2.5~~ - 80.5

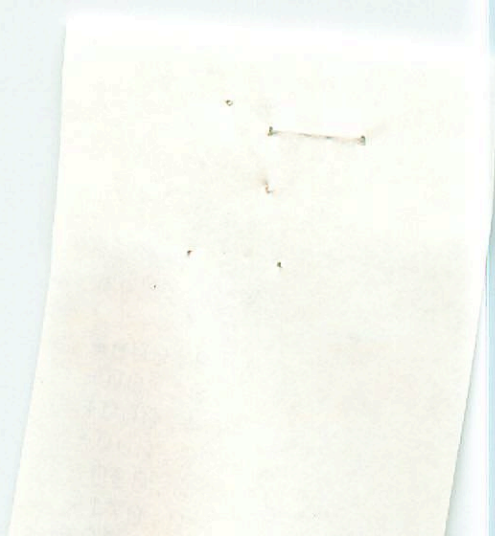
3.75

+13.11

+15.52

3.85

32



7329.000\*

19.000\*

18.000\*

-54.000\*

-32.000\*

0.030\*

-0.071\*

-0019 ± 1.4 +023 ± 1.7  
-0020 +020  
19 18.8 -17 5-7

029 181577  
26644  
1407340 11807

+1.2-1

0.129 188 955 2.812 (10)

35 ± 7 3.94 / +021 FURD -027 +023 6-6  
124 188 956 2.812 -027 +021 ±

46.342 1890.9 -17 5-6 34.87 1890.1 -027 +022

112 / 504  
-138  
36, 2.5  
36, 23.16 1929.31

-00195 +022 ±  
-0019 +023 ±

19.394  
27 056  
46.452  
419 / 432  
-119  
419

45.88  
37.28  
31.50  
35.34  
35.34  
+1.91

444

7059  
35.3

414 / -090

45.2

35.50  
35.48 1941.28  
+30 35.18

-027 +022

410.425  
-119  
1109

1.2

+1.2



-941 337 -306 552 -027 +022 +1.2 -007 -0.4 +085  
-025 -007 -009 -002 -109 -076 +1.1 +0.4 -1.0

0.124 0.195 0.954 2.812

F(12) 8440  
130

-3.2 -3.5 +2.9 03

-2.0 +2.2 +1.5

-1.5 -2.3 +1.4 05

-1.5 +1.3 +2.7

151 416

$+0002 \pm 2.7$   $-0.22 \pm 2.2$   $0.95$   $765$   $(858)$   
 $+0007$   $-0.20$   
 $19$   $19.0$   $-44$   $33$   $-8.6$   $8$

$151454$   
 $26703$   
 $7337$   $11812$

$3.53$   $-0.0F$   $BFE$   $+002$   $-0.22$   $60$   
 $-03$   $105$   $2602.76$   $0772$   
 $192$   $637$   $2.656$   $2687$   
 $7.1$   $28$   $2.79$   $33$   $17.92$   $18960$   $+001$   $-0.19$   
 $-0.10$   $+1.19$   
 $789$

$898$   $710$   
 $18$   
 $444$   
 $3443$   $86$   
 $2.839$   $17$   
 $-25$   $16.73$   
 $874$   $17.63$   $1941.0$   
 $470$   $-9$   $+0006$   
 $816$   $17.72$   $+007$   $-0.15$   
 $710$   $17.77$   
 $10^2$   $17.77$

$957$   $49.1$   $9808$   $53.1$   
 $2.830$   $17.72$   $1957.08$   
 $-12$   $17.82$   
 $816$

$E=0$   
 $M_V(A) = -0.25$



-941 338 -207 207 4006 -018 -5.6 013 +6 -062  
006 012 002 004 -6.1 -2 +6 020

$$-2 + 9 + 3$$
$$\boxed{+9 -3 +2}$$

R.A. :  
DEC. :  
PM. R.A. :  
PM. DEC. :  
DISTANCE :  
MODULUS :  
RAD. VEL. :

d1 (U) :  
d2 (U) :  
d3 (U) :  
dU :  
U :

d1 (V) :  
d2 (V) :  
d3 (V) :

19.300  
-14.500  
10.000  
-13.000  
4.400  
78  
-8.500  
0.324  
-0.218  
-0.218  
30.450  
10.135

0.310  
0.240

R.A. : 19.300  
DEC. : -44.500  
PM. R.A. : 10.000  
PM. DEC. : -18.000  
DISTANCE : 4.400  
MODULUS : 76  
RAD. VEL. : -8.600

q1 (U) : 0.354  
q2 (U) : -0.216  
q3 (U) : -0.910  
dU : 30.420  
U : 10.132

q1 (V) :  
q2 (V) : 0.314  
q3 (U) :

1000436.7  
181882  
26715  
11816

19 19.5 +10

1000436.7  
-0003  
+053

49 KS → 22 d 11

7.3

31.412 1897.9 +10 49 25.63 1889.1

-047  
365

-3.59  
22.104

389

31.343  
347

24.50 1932.9  
11  
24.61

56

31.354  
362

24.49 1939.71 365  
2  
24.51

24.54  
24.54  
+ 2.52

3) 43 (W)  
MP  
W

+0032 ± 2.4  
+0033

181907 19 19.8 -00 21 6.0 g 68 -10.9 g

26723

11821 47.205 1910.0 -0 20 54.86 1906.6  
-128

080  
53.69

30.144  
17.038  
47.184

26.7

43.79 1933.92

48.30

55.47  
130

549  
36.7

177  
-21  
156

14.17  
+25  
54.15  
-51

58  
169

53.92

54.54 1939.57

47.156  
182  
+089

+11  
54.38