

356mm
 112033
 17493
 7712

APDS905
 1" sublet
 9m 11' C
 29 physical

50.091 1885.4 +21 30 58.76
 +220
 1311

50.100 176
 105 088
 50.070
 +1 -223

58.90 1934.9
 58.96
 59.24 1940.98
 -10 7588

59.14 37.9
 59.05
 -1.09
 52.5
 52.8

12.85
 421.5
 -14
 -23
 41.0
 -7

-0034 ± 2.7
 -0042
 12 50.8 +21 31 5.1 968 -6.2a

438
 5.8
 1885.1

+1.88
 00.64
 -5.45

58.90 1934.9
 58.96
 59.24 1940.98
 -10 7588

59.14 37.9
 59.05
 -1.09
 52.5
 52.8

6.09
 59.05
 -1.09
 52.5
 52.8

420 2604
 -5.4 204
 -5.4 2045

0034 ± 2.7
 -029 ± 1.7
 -030
 12 50.8 +21 31 5.1 968 -6.2a

438
 5.8
 1885.1

+1.88
 00.64
 -5.45

58.90 1934.9
 58.96
 59.24 1940.98
 -10 7588

59.14 37.9
 59.05
 -1.09
 52.5
 52.8

6.09
 59.05
 -1.09
 52.5
 52.8

420 2604
 -5.4 204
 -5.4 2045

R.A. : 12.850
DEC. : 21.500
PM. R.A. : -68.000
PM. DEC. : -23.000
DISTANCE : 4.000
MODULUS : 63
RAD. VEL. : -7.000

q1 (U) : -0.836
q2 (U) : 0.544
q3 (U) : -0.063
dU : 191.492
U : 12.522

q1 (V) : 0.548
q2 (V) : 0.832
q3 (V) : -0.082
dV : -255.093
V : -15.523

35
q1 (W) : -0.008
q2 (W) : 0.103
q3 (W) : 0.995
dW : -8.886
W : -7.523

+0059 ± 2.4 -032 ± 2.2
+0053 -031

111968 12 50.7 -39 54 4.3 A5 -2.56

17459 4.27 + 0.21 + 1.58 24"

7710

39.549 1907.3 -39 54 26.61 1902.0

-252
1297

+1.54
25.07

40.8

39.465 1024
514
+2 17

26.23 1940.30

-6
26.31

96.16

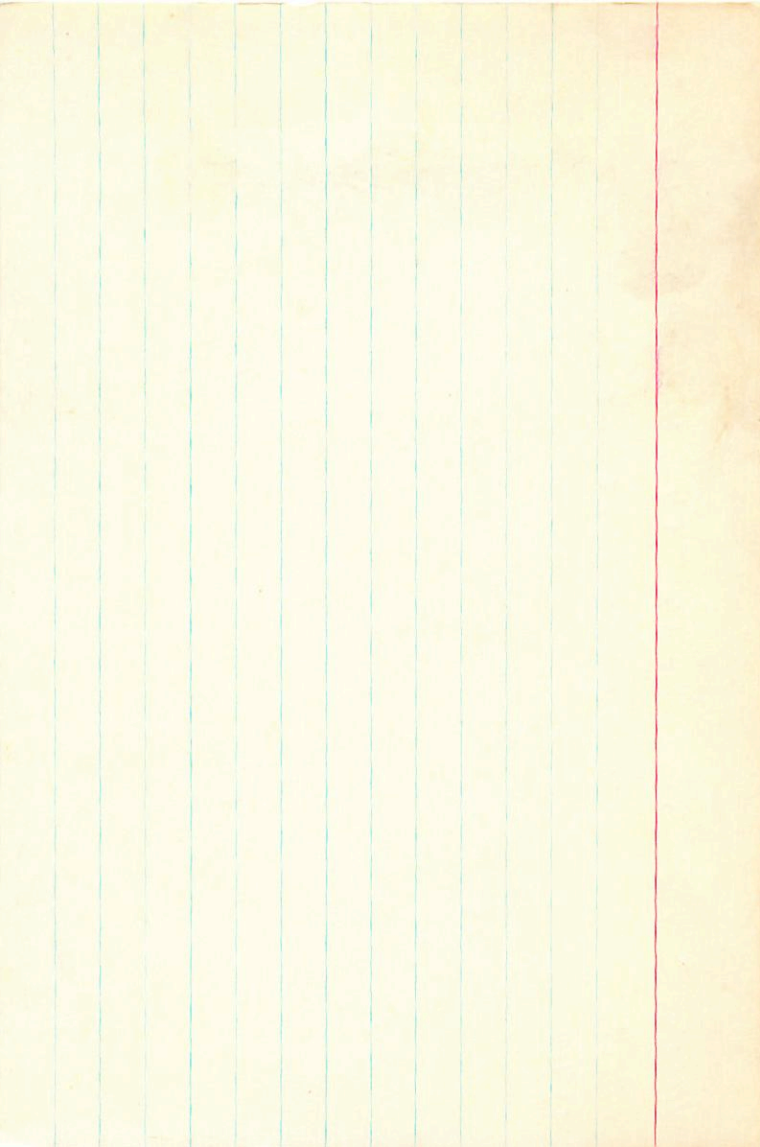
48.1

26.48
-1.41

46.1

39.567
-2562

26.39 - 1955.86
-31 26.66



1-25-2011

12 50.7 -39 5-4

-2.56

1068 -0226-2

1063 -0274

1064 -0257

1066 -028

4.24 +0.30 4.70

4.05

128 176 977 2.511

47417

Handwritten note in a box: 47417 4.24 4.70 4.05

-814-976 -641 767 +066-028 -2.5 018+1.6 -099
014 004-064-018 152-254-1.9+1.9+0.4

1
+14.6 -23.3 -6.6 012
-22.3 +12.5 -12.0

+9.5 -13.8 -3.4
[-12.9+8.2 -7.7] 020

112010

12 5/10

45 45 ✓

1.3 A ✓

644 78 85-IV

0109 178

Landung

754778

164

178

3.4

1.3

9952 8907

1058 8569

2300

0499

✓

10

36



DATE	DESCRIPTION	AMOUNT
1900
1901
1902
1903
1904
1905
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1996
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1998
1999
2000

R.A. : 12.850
DEC. : 19.750
1. R.A. : -164.000
1. DEC. : -178.000
STANCE : 3.400
MODULUS : 48
D. VEL. : -1.300

q1 (U) : -0.836
q2 (U) : 0.542
q3 (U) : -0.079
dU : 154.460
U : 7.496

q1 (V) : 0.548
q2 (V) : 0.830
q3 (V) : -0.107
dV : % -1100.871
V : -52.552

q1 (W) : -0.008
q2 (W) : 0.133
q3 (W) : 0.991
dW : -106.663
W : -6.394

26

4 Vm 112142
HR 4802 17516
17514 7720

12 51.7 -09 16 9 M3 +17.66
4.76 +1.60 cell -024 -020 F
-024 -022 GC
-028 -018 N30
-0019^{5d} -018 N30
-0015 ± 1.2 -019 ± 1.1 cell → N30

1744015.4
PRS

1203 (2)

520200 0.1 6.00 0257 159 1.005 2.906
112101 4601 E+0.3
175131

23 -23.87.3(3)
1005 +0.1
1003 +0.1
+006 ± 3.4

42.260 4.70096
444
7 0
10044

42.060
10
10
670
30.59

1395
6004
+0.10
0147
417

10956 +006
1004 +006
1004 +006
1409

42.243
11
11
21
264

42.243
11
11
21
264

1409
-139 +0.2

40.00 2.0
24
40.24
35.59
-21
40 1 0
35.82
-13
39.95
+4
39.86

+24° 2163

2.09 + 21 + 07
1.8
12 517

+27 57 9.0

+24.0

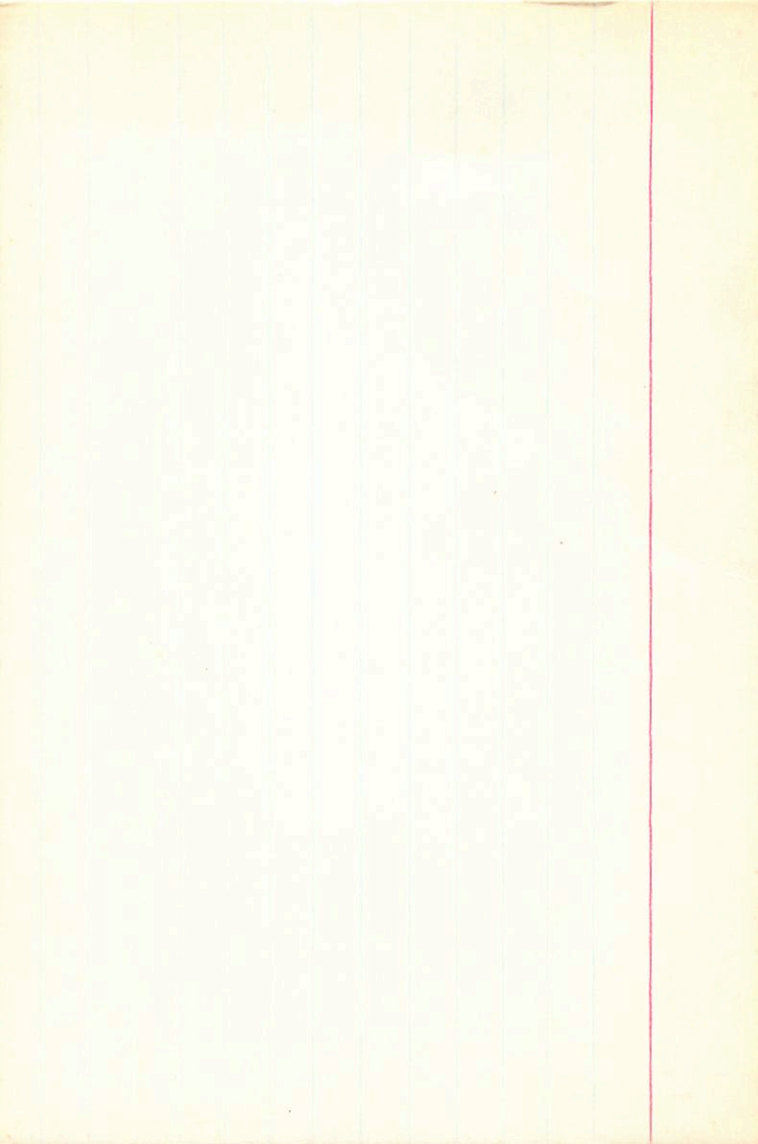
112152

+170 (16) Van

$$\begin{array}{r}
 -029 + 003 Y \\
 \hline
 -030 \quad 000 Gc \\
 +4
 \end{array}$$

9.06 122 205 875 SWG -7 ± 1 2 SWG

9.09 081 287 811 Pwy +24 ± 2 3 Pwy



112171 12 51.8 +33 48 6.3 A2 +5.38

17517
7721

6.26 +0.19 +0.09 A5V

7128

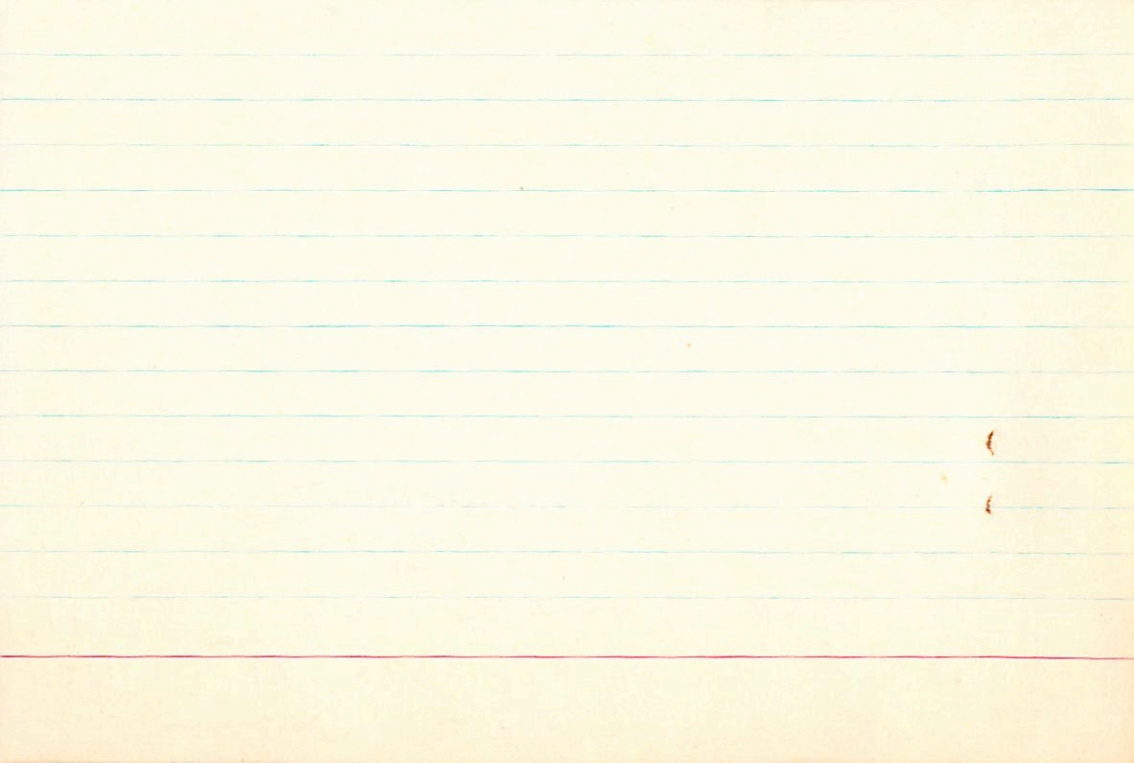
-0072 +027
-0077 +46 +025 +3.7

4604

090.1 +031.9
PRIS
SUMM

9694 -5873
1591
-0341

09960
-0172



0380

112503

12 62.1 + 8 50

12/25/85

199-002

174

174

630

607576

6.83

295

176

52 (20 min)

6.82 296 157 632.68

264

571

240

189-295 -00570 -0050 -00500 -00500

121000

111+

12 84 42 40

14

33 45

110KFT

12007 022900-

211/5 - 5845

0910

100K

0929

1111

0221

0026

-0.91 + 1006

+30

Σ mms =

0091

5.10

-0054 F60 +024#47

455

42.570 00.2

5062

-1.30

264

-0063 002

44.82

839

-0064 001

RF

42.44

44.8

603

-0.24

441

44.71

9100

-0.239

42.870

49.62

346

93.96

65.70

42.415

+ 0.22

437

-0063 000

-00626 40021

A. : :
C. : : 12.000
A. : : 8.550
C. : : 0.000
CE : : 0.000
US : : 0.000
L. : : 10
 : : 0.000

(U) : : -0.833
(U) : : 0.518
(U) : : -0.194
NP : : 0.000
N : : 0.000

(V) : : 0.553
(V) : : 0.792
(V) : : -0.259
dV : : 0.000
V : : 0.000

(M) : : -0.010

0330

PN2540

0330

Da Kaufpreis ≈ 1600

$$G = \frac{0.136}{1.12} = 0.1214 = 0.115 \quad D = 0.22$$

$$\text{Summe} = 2.84$$

4R9503

15164

12 522 43 50

588 332 209 458 ①

589 402 157 460 ②

353 220

9.01 + 11 + 10
1.7

-36.0

+2202521

12 52.2 + 21

51

93

1251217

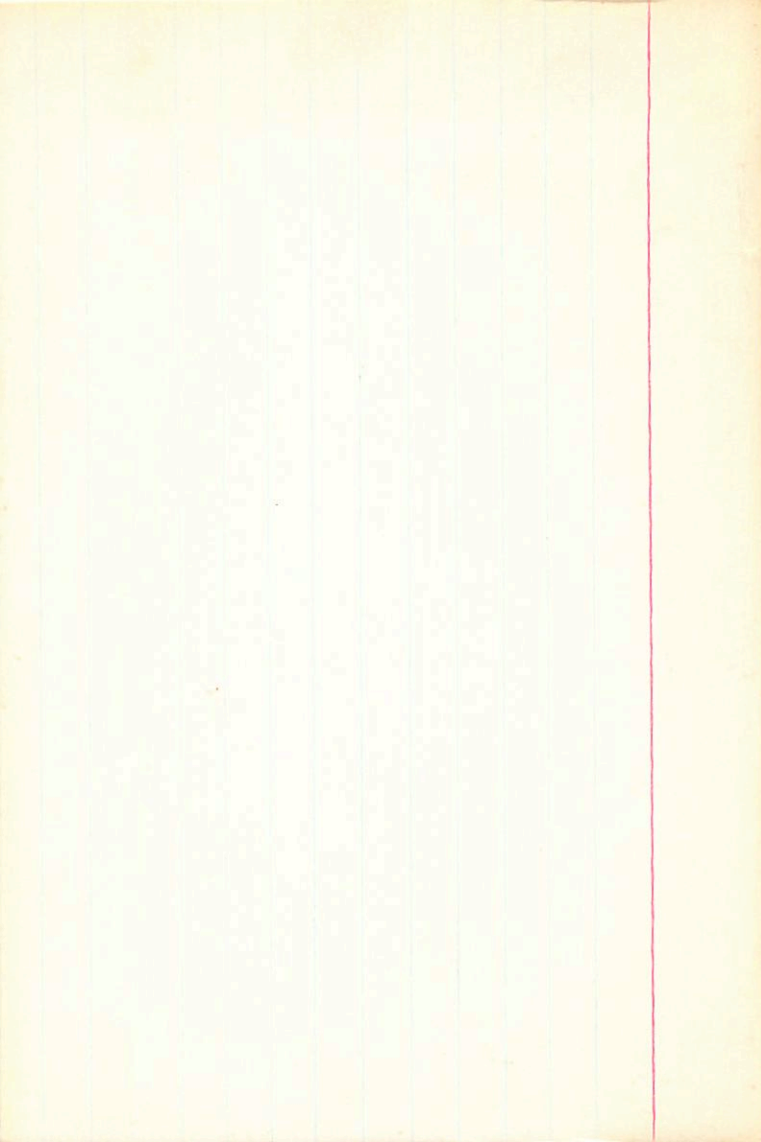
① 1251217

1006 + 027 Y

+ 22 - 25

+ 008 7025-06

+ Y



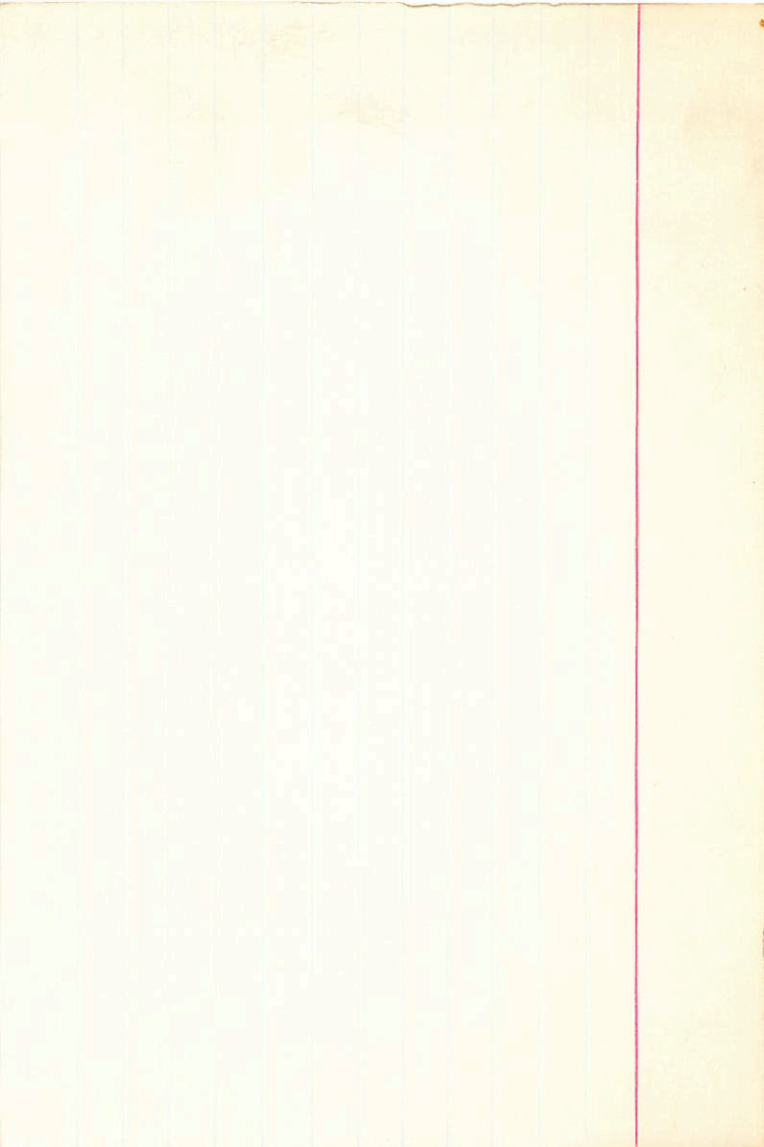
AT Vm

12 52.6 -0.5 11 +358

1410 p.

11.40 +29 +06 -0.062 -0.024

-834	458	-305	+2450	-0521	+1929	+272	-109	+163
550	709	-441	-1616	-0806	-2422	-341	-158	-500
-013	526	844	+0038	-0610	-0572	-81	+302	+221



+1702862

112340

9.35 + 0.9 + 0.6
1.4

12 53.5 + 14 30

+76③ + 2.0

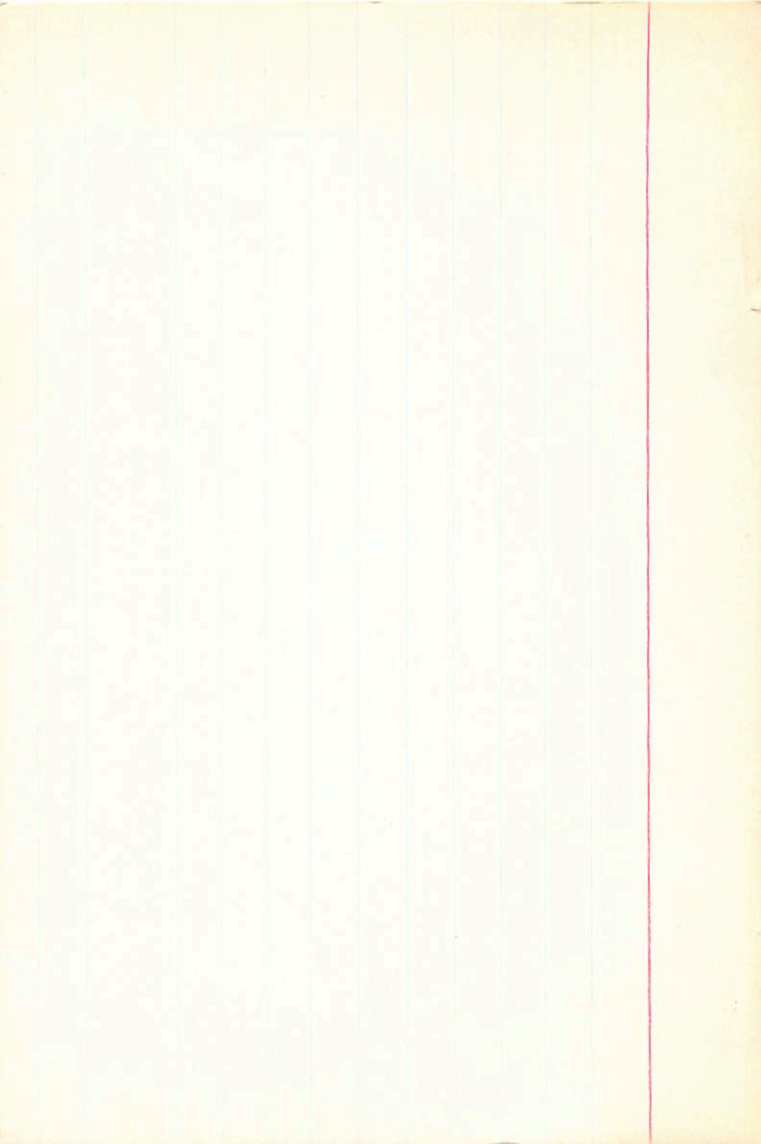
9.3

-0.28 + 0.03 Yale

-0.2 = 5

-0.30 - 0.02

+ 4



8. Dec
112429

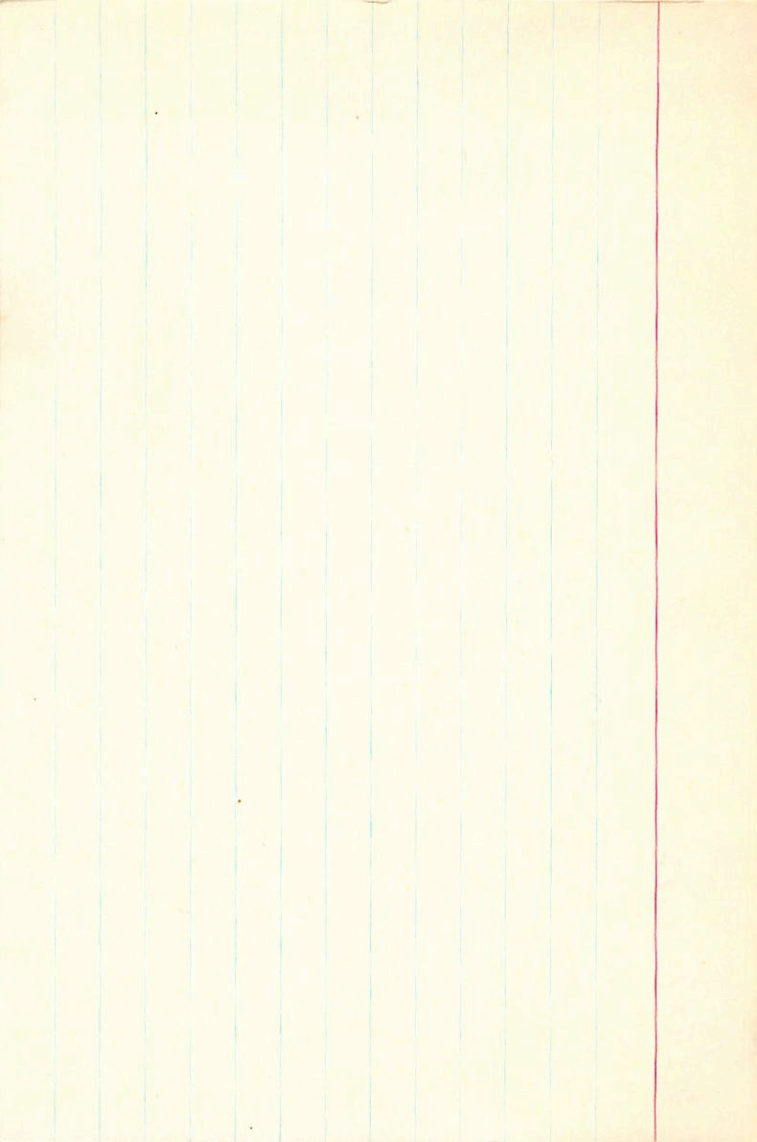
17554

7730

12 53.5 +65 43 5.3 ASM +9.06

~~58~~
-6005 -030 N30

-0007 ± 1.6 -035 ± 1.4



8.92 + 21 + 10
2.4

+40° 2596

12 53.8

+40 07

8.9

12431

1.9 (3)

-0030 -025 6.25
-0028 -018 P113

AG R2-1

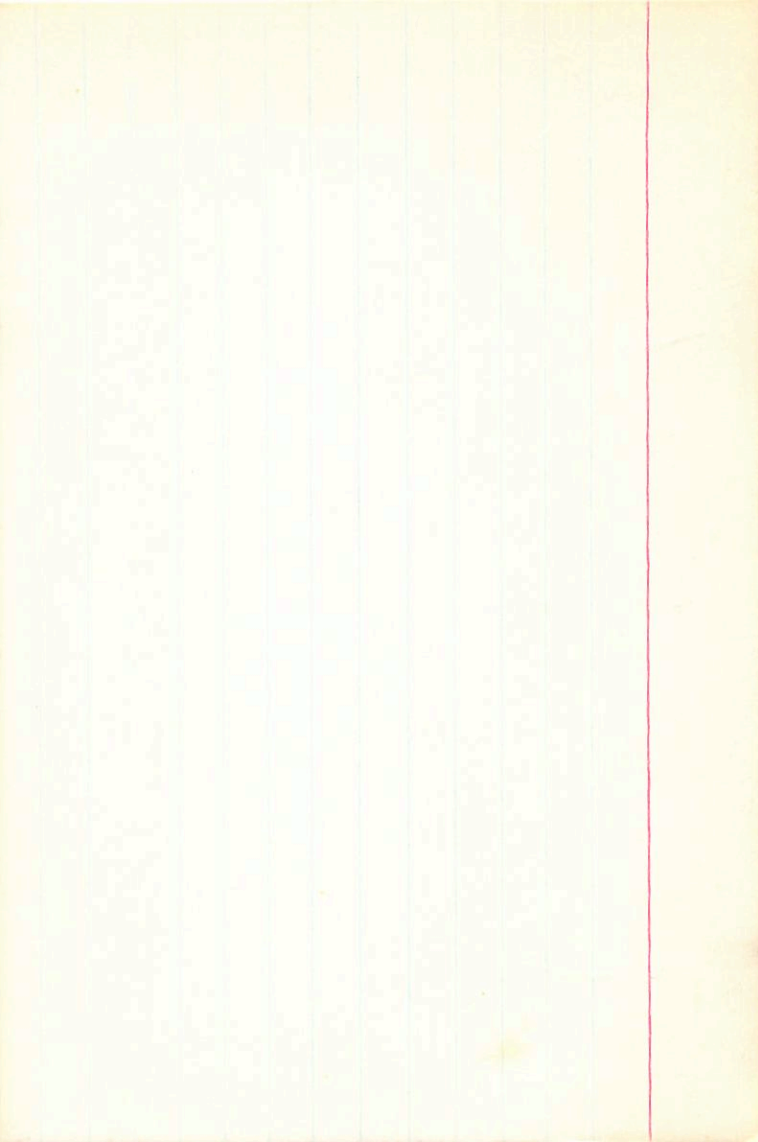
-0030 -021
+4

+034

1.7 m, 4,

8.99 +124 +218 +833 8WG

8.92 143 216 832 Pump 204



The purpose of this will determine

-220

491 ✓

112577

1008-019

12 53.5

-26 11.1

-0.24
-0.24 ± 8.9
-0.28

+0009 ± 42
+0004
+0001

48.453

22.10 1.5

+1.16
21.44

+0004 -0.27

22.48 39.62

+0005 -0.23

22.55

+0067
1008-019

36.214

49.555

50.26

32.242

-29

Share
10 +
11
11

558

57.89

Share
11
11

435

49.554

70.20

57.56
-2.57
54.99

59.8

83

The well determined regression line is $(R_1, R_2) = (0.007, 0.009)$

One sees, however, (with R_1 ^{inter} structure) in the spirit presents

One begins in that a distance of 400 (p. 11.7) from (1, 100) to (14, 45)

- 12) distance where a distance of 1 (p. 11.7) from (-50, -9, -80) - 12

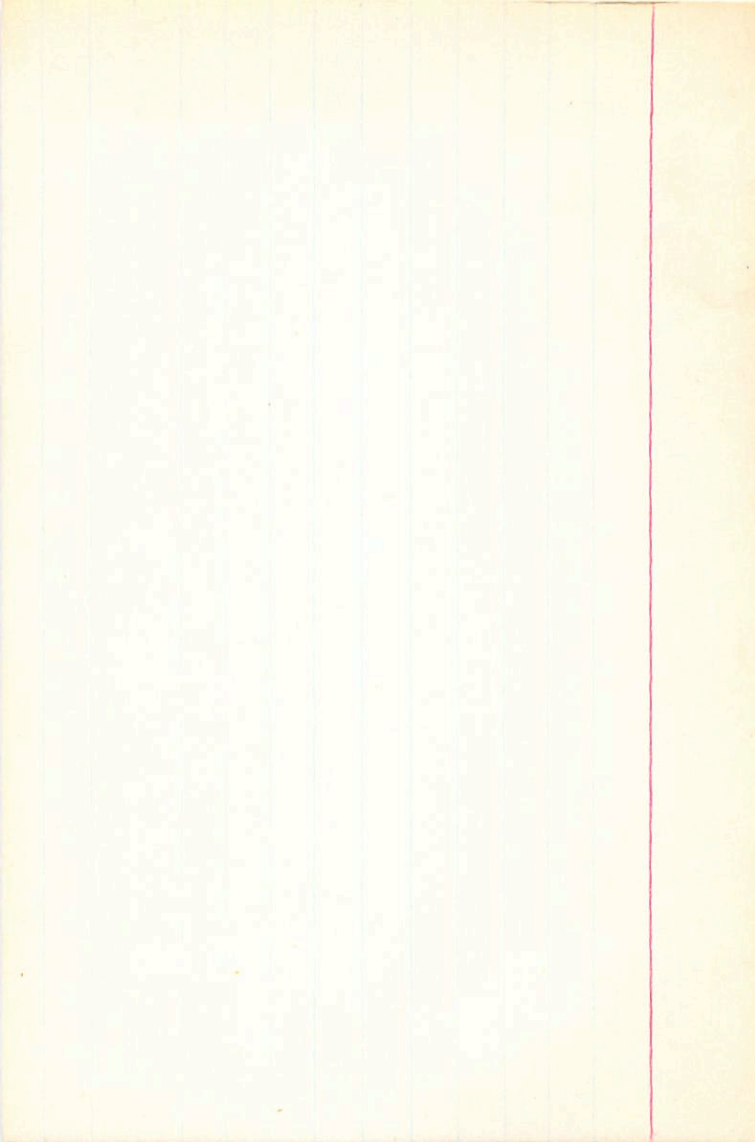
+3202301 12 54.3 +32 13 174④ 9.8

Jan

112497

AGU2-1 -0009 -008 FK3

+



-0079 ± 13.0 -010 ± 16.3

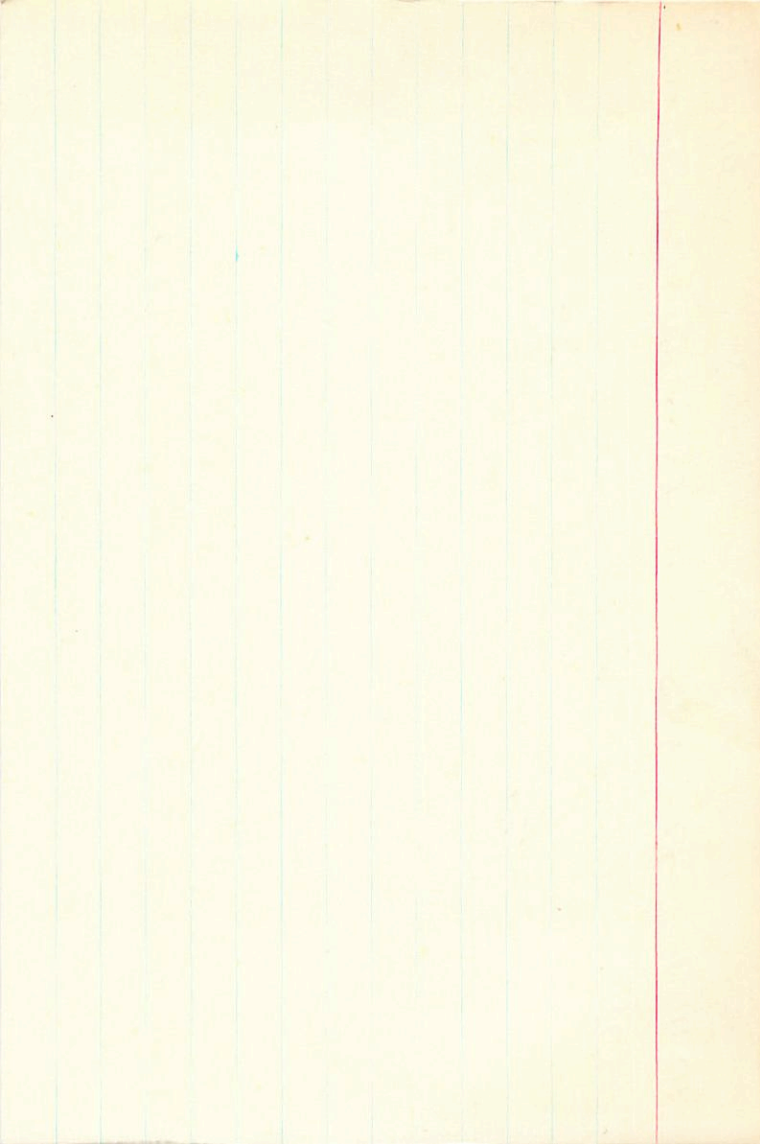
717.7 ± 0.4
6.2(5)

112437 12 54.3 -46 56 8.18 71.24 1000 - 1000

17571 20,26-4 1905.4 -46 56 13.22 - 1903.1

352
30,606

25
12.47



A058713

112501 12 54.3 43 49 7.0 AS -8.86

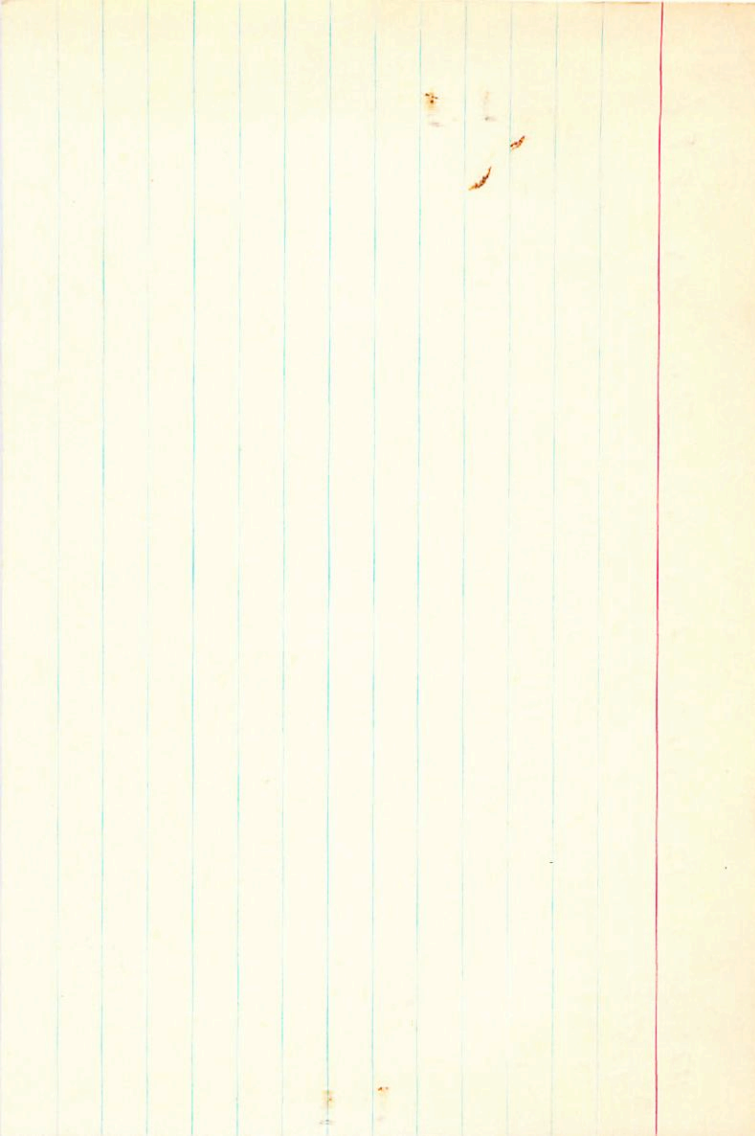
17572

7737

12^m 7^h

+0005²¹ +005N30

+0003±3.8 000±2.9



112515
496138

12 545 +45 33

+6
-20

AD58 714

10850

AD5952 -0358

red
red

418A-

910-98A
-036-016

(H)

red red
red red

-52
-76

+6
5.5

-032-022

red red
red red

8357-4501
-5492-3115

39

R.A. :
DEC. :
PM. R.A. :
PM. DEC. :
DISTANCE :
MODULUS :
RAD. VEL. :
145

P1 (U) :
P2 (U) :
P3 (U) :
P4 :
U :
103.750
15.888

15.288
45.288
-52.000
-18.000
5.888

-0.833
0.230
0.140

15.888

R.A.	:	12.900
DEC.	:	45.900
PM. R.A.	:	-52.000
PM. DEC.	:	-16.000
DISTANCE	:	5.800
MODULUS	:	145
RAD. VEL.	:	6.000

q1 (U)	:	-0.833
q2 (U)	:	0.530
q3 (U)	:	0.160
du	:	102.720
U	:	15.800

q1 (U)

112502

30.33%

12 54.5 +30 19

83-64

-441 ①

-342 ①

986 066

-96

-64

5

-441

882.10
 788.05
 810.0
 -0.819
 -0.317
 849.0
 875.374
 848.0

(M) 1P
 (M) 2P
 (M) 3P
 MB
 W

10

39

q1 (W)
q2 (W)
q3 (W)
db
W

4.508
-20.687

40

1000
1000
1000
1000
1000

1000
1000
1000
1000
1000

1000
1000
1000
1000
1000

4919

12 549

+46 28

61 65

~~154 0~~

-0 22 -0 53 61
0 + 1
-0 53
+7.3 6

—

41

—



1022*
-0.053*
5.000*
100.000
7.300

-0.046
0.163

-3.457

-0.254
0.284

-23.366

0.004
0.945

15.837

112735

17605
7745

12

56.2

+22

19

7.3 GO

-416

+0049 ± 5.1 -254543
+ 57 -260

25

-444 (1)

13.672

18953

+22

18

57.29

1894.5

268
404

0052 253

14.10
11.39

13.407

9
416

606
+202

35.3

1.05 1982.9

4
1.09

13.578

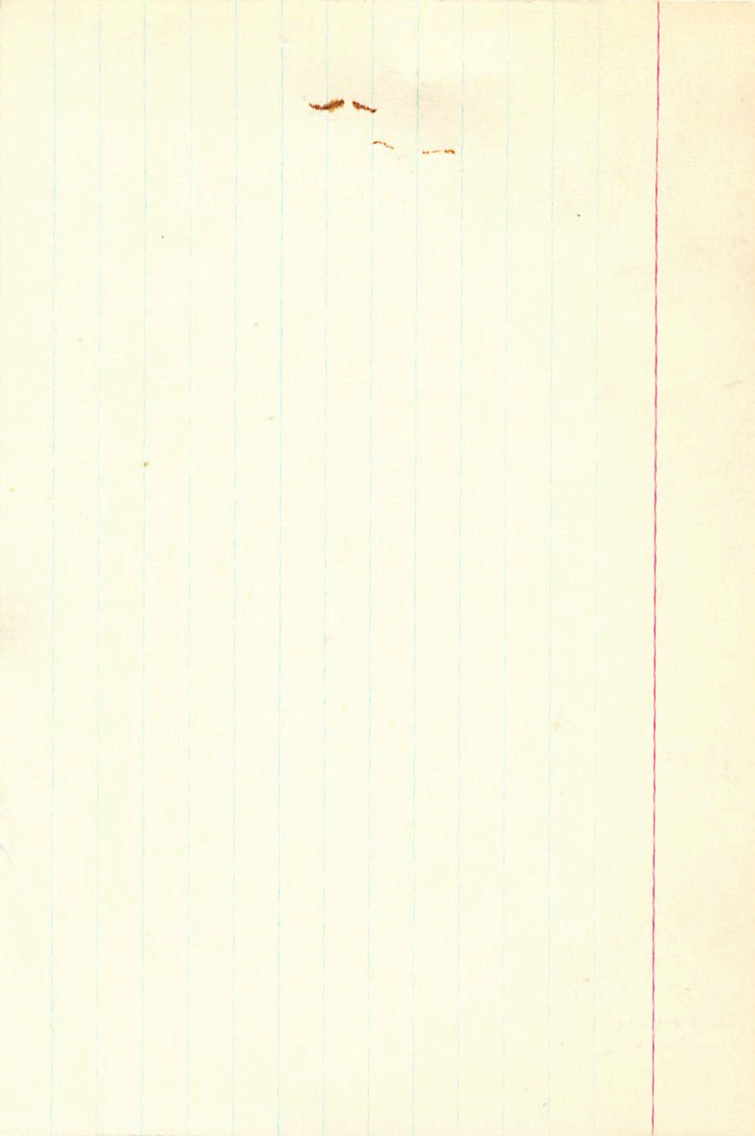
14
.597

3.14 1928.28

-22
2.92
401
2.00
-9.34

612
30.6

36.1



9.16 }
 +185 }
 +182 }

TTLVm 12 5-7-0 +38 05 8-52 R6

-1645
 R5.09

4002864 102 65.02 103.65
 6.55 +0.28 -0.03 -0.023 -0.036 Reing

-28
 -37
 9.0
 -135

-4
 0040
 +1 +3

-0.01 -0.09
 -0.022 -0.037 25

69
 2500
 690
 25
 9
 10.5
 135

-828 554 075 +0863 -0972 -010.9 -272 -10.1 -37

557 812 171 -0581 -1424 -200.5 -500 -23.1 -523

-033 -183 983 +0034 +0321 +0355 +88 -132.7 -45

6.75M

6948
 -7.5 -10.1 = -17.6
 -185.3 -23.1 = -216.4
 +24.5 -132.7 = -108.2

885M.
 -9.6 -10.1 = -20
 -177.4 -23.1 = -200.5
 +31.4 -132.7 = -101.3

-7.4 -17
 -135.3 -158
 +24.0 -109

42

RAD. VEL. : -132.680
 MODULUS : 431
 DISTANCE : 9.680
 PM. DEC. : -37.666
 PM. R.A. : -25.666
 DEC. : 36.166
 R.A. : 12.258

d1 (U) : -0.252
 d2 (U) : 0.250
 d3 (U) : 0.878
 d4 : -10.383
 d5 : -17.162

d1 (V) : 0.252
 d2 (V) : 0.878
 d3 (V) : 0.171
 d4 : -200.795
 d5 : -142.288

d1 (W) : -0.831
 d2 (W) : -0.180
 d3 (W) : 0.282
 d4 : 32.732
 d5 : -110.642

R.A. : 12.950
DEC. : 38.100
PM. R.A. : -28.000
PM. DEC. : -37.000
DISTANCE : 9.000
MODULUS : 631
RAD. VEL. : -135.000

q1 (U) : -0.829
q2 (U) : 0.553
q3 (U) : 0.078
dU : -10.383
U : -17.109

42
q1 (V) : 0.558
q2 (V) : 0.812
q3 (V) : 0.171
dV : -200.702
V : -149.700

q1 (W) : -0.031
q2 (W) : -0.185
q3 (W) : 0.982
dW : 35.739
W : -110.045

-0.839

-135.800

1388

10.550

-0.000

17.500

28.100

12.950

AD.

AD. VEL.

MODULUS

DISTANCE

PM. DEC.

PM. R.A.

DEC.

R.A.

R.A. : 12.950
DEC. : 38.100
PM. R.A. : -7.500
PM. DEC. : -9.000
DISTANCE : 10.550
MODULUS : 1288
AD. VEL. : -135.000

-0.829

462 5.50 112 159 940 2820
12 87 / -3 33

-17.8 ± 1.6

112846

001

1763

-00243 1.7 +004#1.4

③

4.826 5.7

33.53 2.5

1230

3 -7
-00270 +0040 W₃ 50

-00274 +0036

-0410

800 60 0008

9886

-1463

-9544 0346

1053 0038

-435

0042

6.60

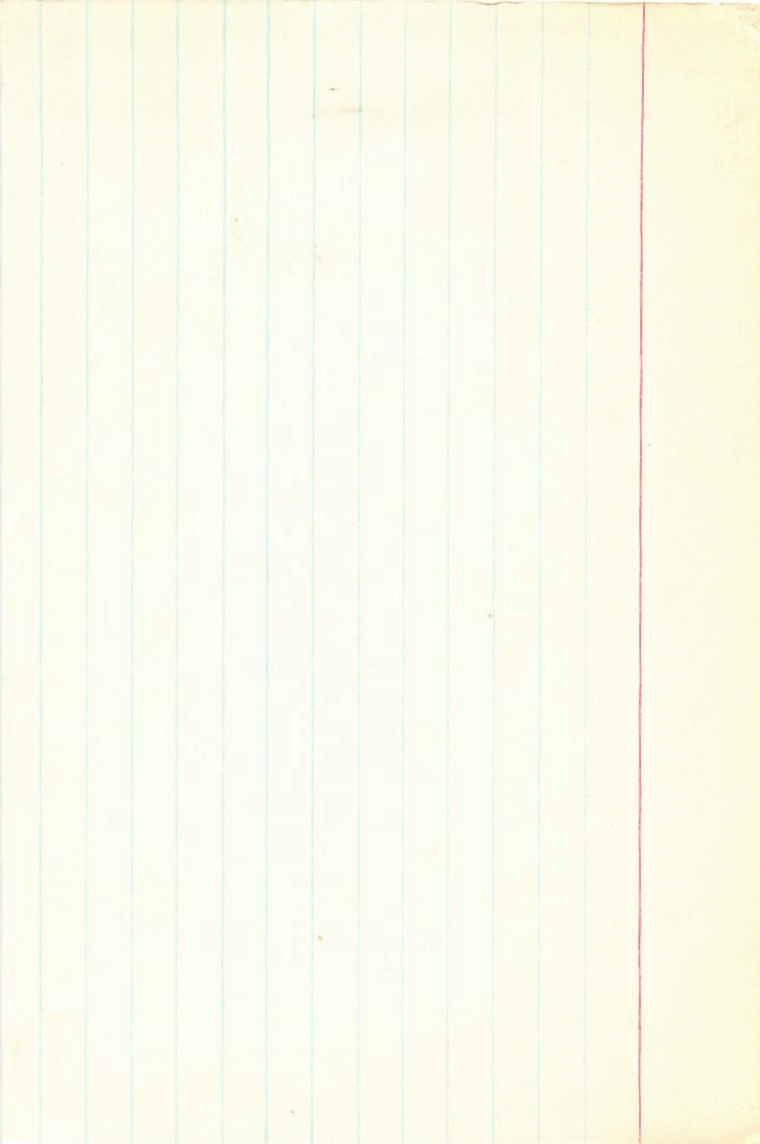
112887 12 57.1 28 20 FY -7.7

8007632

1840

4013 - 013

-828 +559 -016	-0516 -0344	-0860	+0.1
+558 +829 +034	+0344 -0511	-0167	-0.2
-032 -018 1000	-1000 +0011	-0009	-7.7



① -3448

H0E 238179 1.2 57.5 +54 56

+550 1569 8.9 68E 71A +097 -030 X

-248 -964 818 575 7097 -030 -34.4 -025 -25.1 -051
024 -006 -034 024 0 -47.5 -19.8 +19.2 +4.9 04

+19.2 -6.9 -30.1

-18.4 -103 -19.7

43

R.A. :
DEC. : 13.800
R.A. : 28.750
DEC. : -95.000
DISTANCE : -38.000
MODULUS : 8.250
RAD. VEL. : 447
: 15.800

d1 (U) :
d2 (U) : -0.820
d3 (U) : 0.264
qu : -0.032
u : 340.893

107.302

d1 (U)
d2 (U)

R.A. : 13.000
DEC. : 28.750
PM. R.A. : -92.000
PM. DEC. : -28.000
DISTANCE : 8.250
MODULUS : 447
RAD. VEL. : 12.800

q1 (U) : -0.826
q2 (U) : 0.564
q3 (U) : -0.022
dU : 240.863
U : 107

q1

8 mms
12985
Gc17672
W7767

sp B P = 847
12 58.8 - 71 17
3.54 + 1.20 - 6epc

Y2480
HR4823

15
+0570 L035 N30
+0574 23-031 ± 2.066 9M70

+6 -19
-73 +524 +209 .02
-56 -7 -15 .03

36003 (-74 +2 -18) .082
144872 (-74 +1 -3) .0345

112 +36.5 a
+36.1 C(12)
+38.1 C(11)

+37 -461
+46 Val 454.

+273 -038 ac
+274 -035 N30
+274 -036

23 ± 9 Y(12)

ST 459
19.349
999.0
0.953
0.943
0.943

-264 -267 -947 321 +374 -034 +36.5 034 -35 -057

~~265-033-070~~

070 009-265-033 458 -1.213 +11.7 -11 -3

+13 -64 -38

.02

-73 +6 -19

.02

8-09+11 +11
1.6

+13°26'19

12 58.9

+13 26

+15.0

+141.4

81

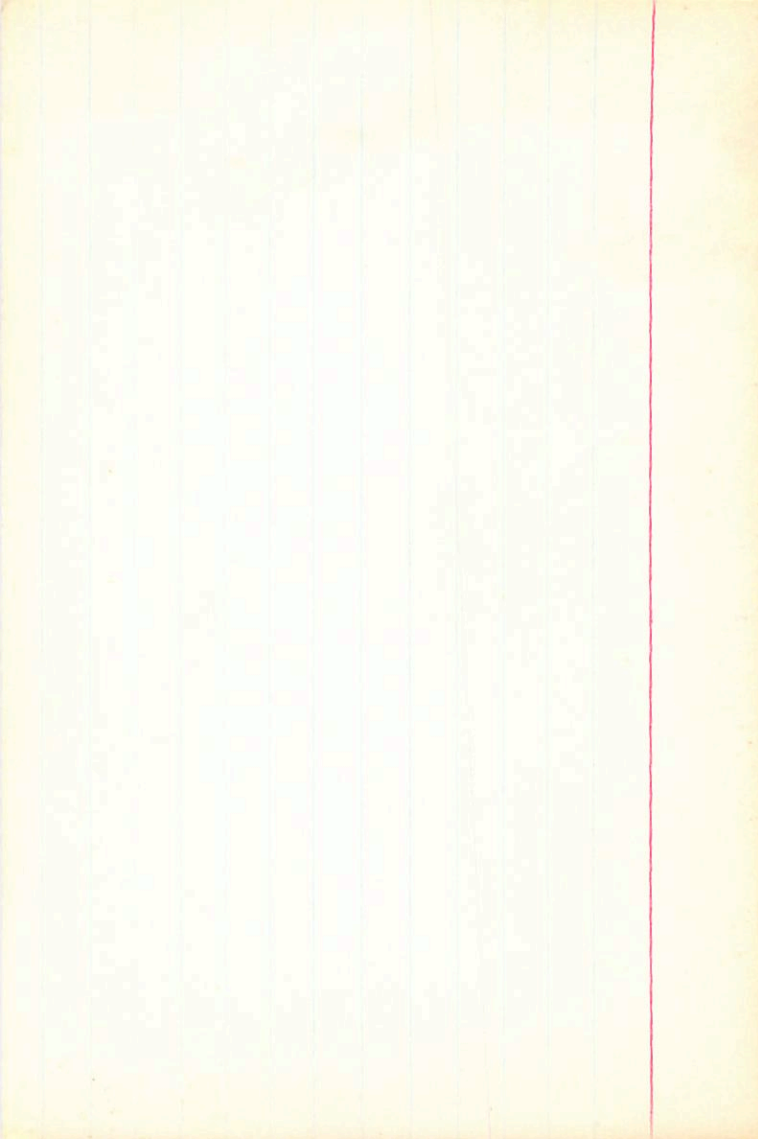
113124

-077 +052 Y

130 6250

-0043 +043

-0062 \checkmark



+3502394

12 59.0

+38

+0.9 (8) 7.5
19 25p

113148

49.97

10.20

~~609 17~~
~~60 570~~

212
+ 13

1927.3

6.04
5.25
0.79

+0.022 -0.003 G_{25}

AG 112-1 +0.0007 +0.07

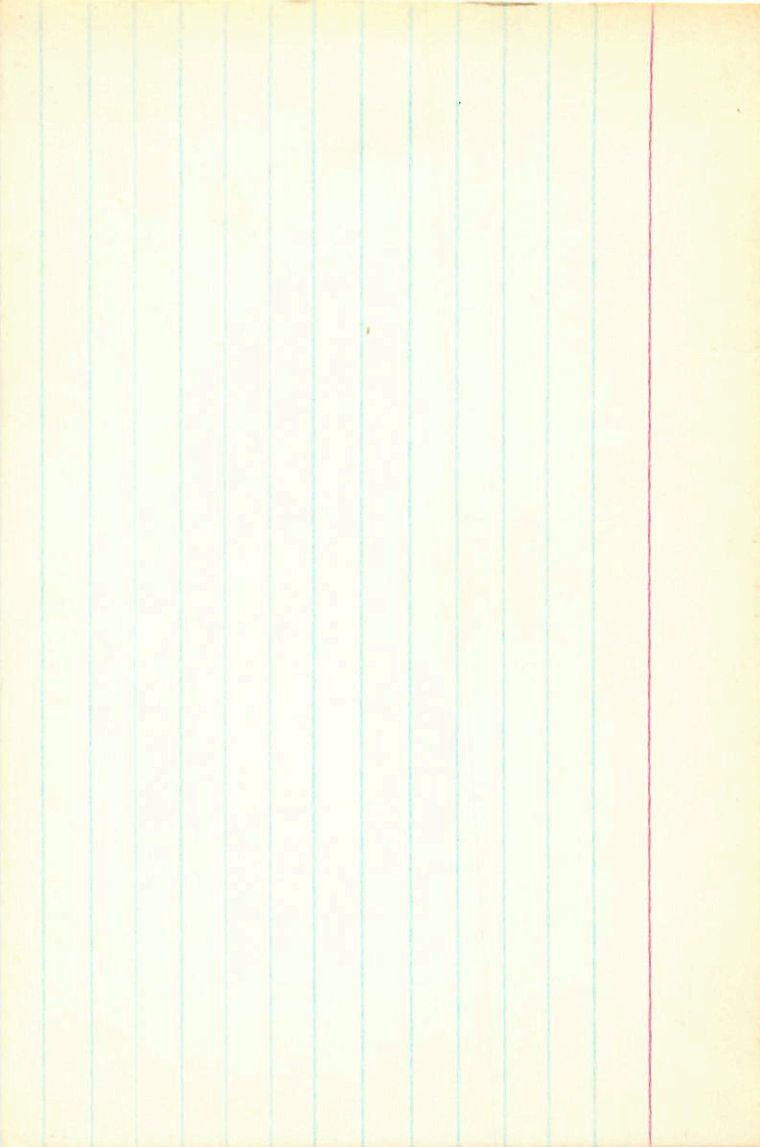
1.40
- 26
1.12
- 0.047 0.000

X

59 00.089

- 7
082
- 138

0622 195242
- 9
01.13



244in
113158

12

59.2

-19

30

28

A7 +4.0a

B8 1.99

7770

$$\begin{array}{r} +017511 \\ -5 \\ \hline -04859 \end{array} \quad \checkmark$$

$$\begin{array}{r} +012 \\ +1 \\ \hline 013 \end{array} \quad \begin{array}{r} -052 \\ + \\ \hline -049 \end{array}$$

7773

835
59.8

+63

53

6.0 824-10.5

49304

278
749
707

21574

6.15 +044 -0.01

213

17650

9994

9814 1795

113337

0883

1898 1092

0271 52.9 +025 2.6

+2.3

32.38A

49.963 1890.4 -0263

4267

1882.7 0187

1.6115
51.578

-0267 +020

364

50.122

-17.500

42.13

+21.0

157

-02221 +0206

-14

-18.6

7794

4199

-15.4

-1.427

-178 +025

1.98

-853 423 307

7076 0448

7524 +243-33

562 649 512

-4661 0615

-4046 -13.1 -5.5

-043 -595 802

6357 -0564

-0207 -6.7 -8.7

RAD. VEL. : 8.000
 MODULUS : 145
 DISTANCE : 5.000
 PM. DEC. : -18.000
 PM. R.A. : -52.000
 DEC. : 45.000
 R.A. : 12.000

U : 15.808
 UB : 102.720
 a3 (U) : 0.100
 a2 (U) : 0.230
 a1 (U) : -0.833

V : -20.887
 VB : -124.208
 a3 (V) : 0.274
 a2 (V) : 0.787
 a1 (V) : 0.253

W : 2.040
 WB : 27.374
 a3 (W) : 0.948
 a2 (W) : -0.317
 a1 (W) : -0.019

Handwritten mark



R.A. : 12.900
DEC. : 45.900
PM. R.A. : -52.000
PM. DEC. : -16.000
DISTANCE : 5.800
MODULUS : 145
RAD. VEL. : 6.000

q1 (U) : -0.833
q2 (U) : 0.530
q3 (U) : 0.160
dU : 102.720
U : 15.808

q1 (V) : 0.553
q2 (V) : 0.787
q3 (V) : 0.274
dV : -154.508
V : -20.687

q1 (W) : -0.019
q2 (W) : -0.317
q3 (W) : 0.948
dW : 27.374
W : 9.646

39

113002 1258.0 + 1954 - 985 (3)

h1c0c4

hc-2cl

8100 674H

186

5
A

hc

78
-95

1

R.A. : 13.000
DEC. : 19.900
PM. R.A. : -186.000
PM. DEC. : -74.000
DISTANCE : 7.800
MODULUS : 363
RAD. VEL. : -95.500

q1 (U) : -0.826
q2 (U) : 0.554
q3 (U) : -0.109
dU : 490.314
U : 188.399

q1 (V) : 0.563
q2 (V) : 0.822
q3 (V) : -0.084
dV : -754.814
V : -265.988

q1 (W) : -0.043
q2 (W) : 0.131
q3 (W) : 0.990
dW : -10.599
W : -98.439

412.85③

17116⑥

1258.372846

61655

1555069+

82-18-

~~82~~

95358

9213

III II 929

921

43