

22242  
4266

6.19 + 47

6.19 + 0.47

-310412

2 319

+3115

550

-32.6 C

19.48

+066 ± 6.9

± 0.5 - (5)

6.7-7.3

+0242

± 0.5 - (5)

55.577

1900.2

-31

14 52.18 18571

-027 + 064 C-C

105

1900.2

-31

14 52.18 18571

-027 + 064 C-C

652

1900.2

-31

14 52.18 18571

-027 + 064 C-C

54.923

1900.2

-31

14 52.18 18571

-027 + 064 C-C

635

1900.2

-31

14 52.18 18571

-027 + 064 C-C

55.558

1900.2

-31

14 52.18 18571

-027 + 064 C-C

504

1900.2

-31

14 52.18 18571

-027 + 064 C-C

512

1900.2

-31

14 52.18 18571

-027 + 064 C-C

55.497

1900.2

-31

14 52.18 18571

-027 + 064 C-C

129

1900.2

-31

14 52.18 18571

-027 + 064 C-C

509

1900.2

-31

14 52.18 18571

-027 + 064 C-C

41.6

56.55 1926.99

8350  
41.8

542

53.07

447

108

53.97

447

516

53.27

447

516

53.10

447

516

53.10

447

516

53.10

447

516

53.10

447

1956.5

51.54

21

3

51.33

3

797 604 -519 954 -038 +052 -02.6 -027 +17 208

026 022 -020 -016 199 009 -228 -17 -22 0242

-9 -22 +26

[-8 +26 +24]

22225

3 22.4

+18

44

9M2

E = +05

condensed

+1005-047

007-047

+0.002 -0.044 FN4 + con

9912

-132x

5018

-8258

7.47 + 123 + 2.08 (2)

6.24 + 0.95 (3)

6.19 - 425  
110

581  
176

18455  
85

119  
141  
141

85

5.91

573

117

43  
37805

28

22225.000\*

3.000\*

22.400\*

18.000\*

44.000\*

0.002\*

-0.044\*

8.550\*

407.5 <sup>8.05</sup> 512.861

-8.500

-0.043

0.834

-25 -29.002

-0.156

0.206

-67 -81.624

-0.132

-0.512

-50 <sup>28</sup> -63.508

22225.000\*

3.000\*

22.400\*

18.000\*

00276

44.000\*

7.80

0.006\*

-0.040\*

8.05

8.550\*

512.861

-0.500

-0.029

0.834

MA

-21.904

-0.155

0.206

579

-81.140

28

-0.109

-0.512

38.4

-51.739

(6.27)

22225 3 32.4 +18 44 7.9 9M2 -8.57

1977 -11 +6002 -031 N30 5.81  
4276 +0009 ±4.4 -056 ±4.6 6-L cont. N30

(2) 6.40 +0.935 +0005 -040  
+006 -040

475 ft ↓

+ 470	+216	+858	+0133	-0410	-0297	-20.4
- 664	+725	+181	-0189	-1375	-2564	-124.0
7581	+654	-485	+0165	+1240	-1075	-46.0
						-73
						-1.5
						+4.1

-6 +2  
+0002 -043 cont

+65012	-0416
+0019	-044
FOOT -044	

630 90  
540  
315

29



104  
POLYCL(2)

21910

3 32.6 +74 36

+740161

7.46 +1.03 +0.75 NO. II R

W1982

S = .15

f8 III + KK

2+570 al. Sk.  
4172

OP  
+10 +19

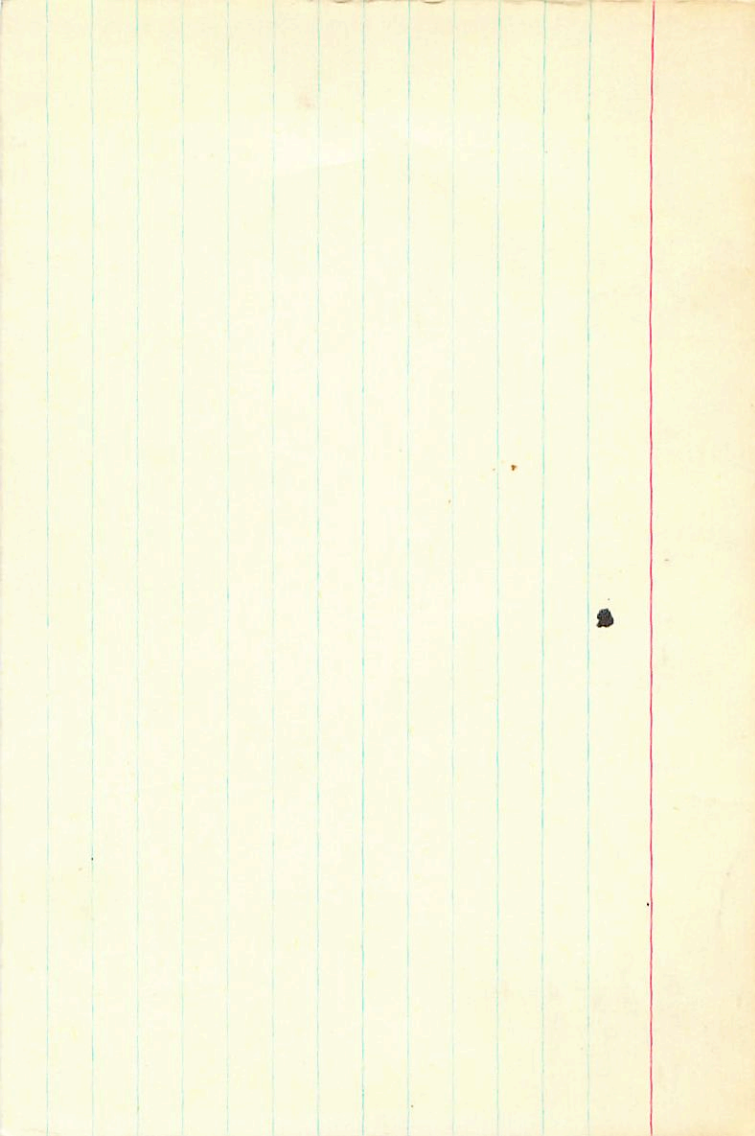
.005 +0.20 GAZ

00033

June

316 ps.

+470 -552	+663	+0089 -0524	-0435	-13.7 -69.0	-82.7
-664 +261	+700	-0126 +0285	+0109	+3.4 -72.8	-69.4
+590 +770	+264	+0110 +0693	+0903	+25.4 -27.5	-2.1



4052630

H<sup>D</sup> 22193

3 32.8 +42 11

+410714

w 1993

8.34 +0.68 +0.16 ③

15m=0.2

470 ~134 872  
-664 596 450  
581 747 -161

+3431 +0927  
-4847 -4125  
+4241 -5474

+4358  
-8972  
~~-1233~~

+43.6  
-89.7  
-12.3

+16.8  
+24.2  
-10.2

"0.125"  
+43  
-47  
-20

π<sub>int</sub>  
0.1115

+85  
-53  
-21

+90.4 +97  
-45.2 -80  
-22.5 -24

3 (w)  
+53.78

Helium

s  
+0.35 -1.146 →

+1.154

100% 110.6

Pa. 9

7.87

780  
755  
8532  
434  
198  
3

22269 3 33.0 +27 24 8.1 VIII

+270529

+14,86

+065 +011 ✓

3  
058  
010

316 po

411

449

+468 +87 +879  
-669 +691 +255  
+592 +777 252

+1448 +0045  
-2054 +0360  
+1800 +0374

+1493 +47.2 +13.0 = 460.2  
-1094 -53.5 + 4.2 = -49.3  
+2174 +68.7 -5.6 +63.1

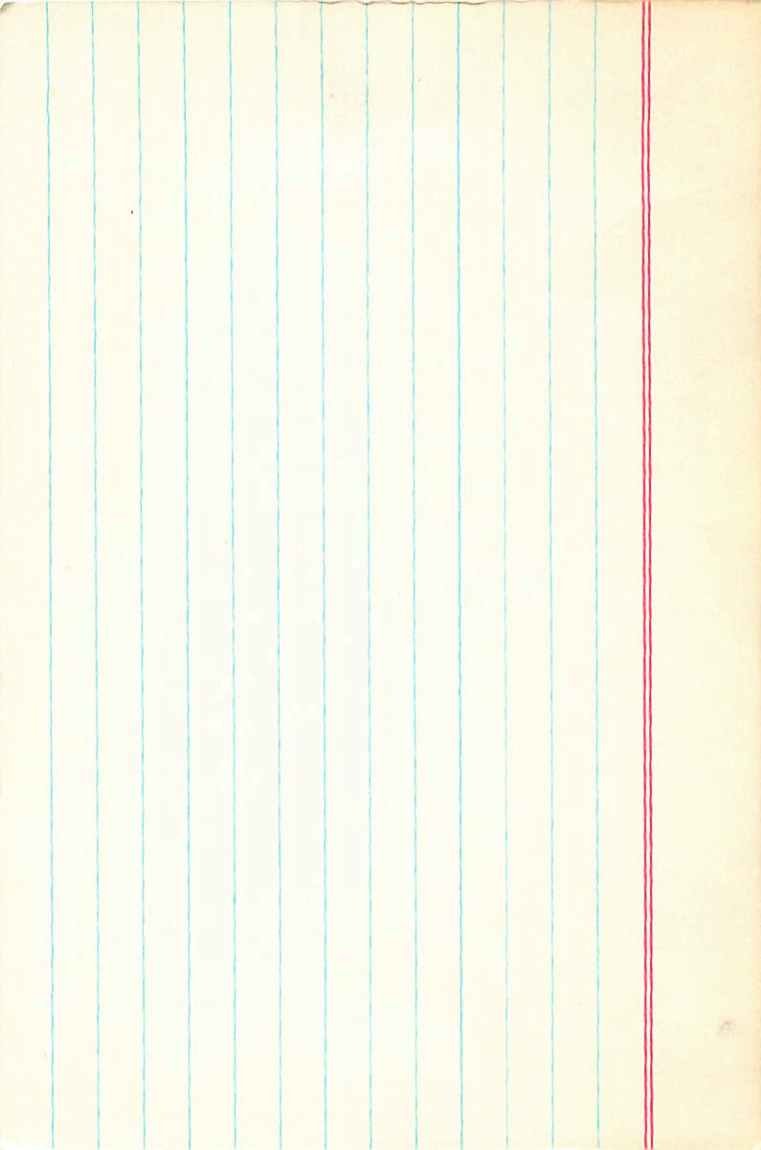
$-47^{\circ}1087$

3 3.3.1  $-47$  26  $68 \text{ V} - \text{VI}$   $+16.6$  356.

$S = +10$

$10.26 + 0.57 - 0.06$

$+0.232 + 0.089 \text{ CA}$



22413

-2801205

$M_2 + 137$  } common  $C = +36.0$   
 $M_1 = -135$  }  
 3 33.3 -28 80

+108  
 206  
 9

straight for year 8.81 + 0.305 10.01 @ 599  
 in medium

1824 1.59 622 2.726 2 1395  
 1.96 .145 .635 2.707 @ 5,0,12,1

[M<sub>1</sub>] .180

[C<sub>1</sub>] 596

Egg

[M<sub>1</sub>] 152

[C<sub>1</sub>] 585

[E<sub>1</sub>] 486

$\Delta [C_1] + 108$

136 1275

$\Delta M_1$  1.31

$m_1 = 11.4$

$\Delta [M_1] = +24$

$\Delta [C_1] = 0$

155  
1895

Var



30



THE

OF

NO. 2

NO. 3

NO. 4

NO. 5

NO. 6

NO. 7

NO. 8

NO. 9

NO. 10

NO. 11

NO. 12

NO. 13

NO. 14

NO. 15

NO. 16

NO. 17

NO. 18

NO. 19

NO. 20

NO. 21

NO. 22

NO. 23

NO. 24

133

134

135

136

137

138

139

140

141

142

143

144

145

146

22413.000\*

3.000\*

33.300\*

-28.000\*

-30.000\*

0.137\*

5.45

-0.134\*

6.500\*

122.3

199.526

36.000

-0.191

0.420

-8

-22.917

70

-0.827

-0.414

-114

-179.844

0.325

-0.800

+11

35.720

209

3 334

829 43 +21.7

+24.580

+48.2 (2)

~~1448~~

3.58

+24.7

170

-67

4.5

+21.7

31

RAD. VELL. :

0.409	:	(U)	1p
0.800	:	(U)	2p
0.802	:	(U)	3p
0.818	:	Ub	
0.832	:	U	
0.884	:	(U)	1p
0.979	:	(U)	2p
0.315	:	(U)	3p
0.848	:	Ub	
0.874	:	U	
0.882	:	(M)	1p
0.883	:	(M)	2p

RAD. VEL. : 21.700

q1 (U) : 0.469  
q2 (U) : 0.054  
q3 (U) : 0.882  
dU : 313.432  
U : 44.032

q1 (V) : -0.664  
q2 (V) : 0.679  
q3 (V) : 0.312  
dV : -648.522  
V : -44.753

31  
q1 (W) : 0.582  
q2 (W) : 0.732

Hyacinth

22328

33.5 + 19 54 dFS + 3468

7.6

+091 - 042 - 66

W1989

W1988 (H)

+099 - 047 ~~66~~

+095 - 043

+0066

+0066 - 046 Gct

385

+0065 - 044

+0531

[+093 - 047]

99

40

✓

6943

7246

[9786  
15082  
20541]

15128



803 557 340 940 +095-042 +34.6-014 +12. -155

-074.011 058-008 -367 367 +32.5 +19 +26

+4 +41 +3 0 2.05

-3

-2 +77 0 0 15

+41 -21 -6

+1 +44 +1 0 17

[+39 -18 -5]

-1 +45 0 16

+40 -20 -6

3



22328.000\*

3.000\*

33.500\*

19.000\*

54.000\*

0.093\*

-0.047\*

3.850\*

58.884 6310

34.600 422

0.161 6339

0.861

38 39.244

-0.454

0.190

-168 -20.150

0.110

-0.472

32  
-11 -9.844



FD 22374

3

340

+23 03

6.5 (3)

-0.2 Rubens

GC 4307

+72.516

-0.0010

-0.020 GC

A 2yo

-0.0014

N30

-0.012 -0.018

(-0.016)

462 155 873

-664 714 225

588 683 -432

-0350 -0132

+0504 -0609

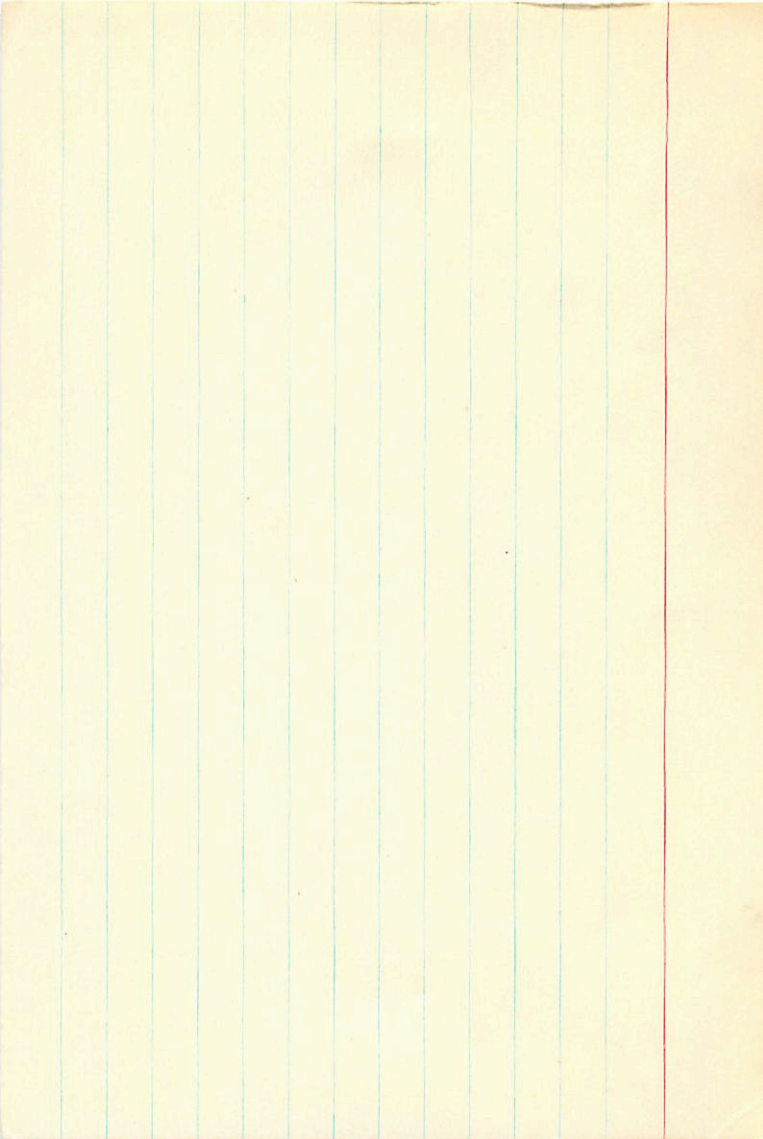
-0446 -0583

-0482 -5.6

-0105 -11

-1029 -108

115

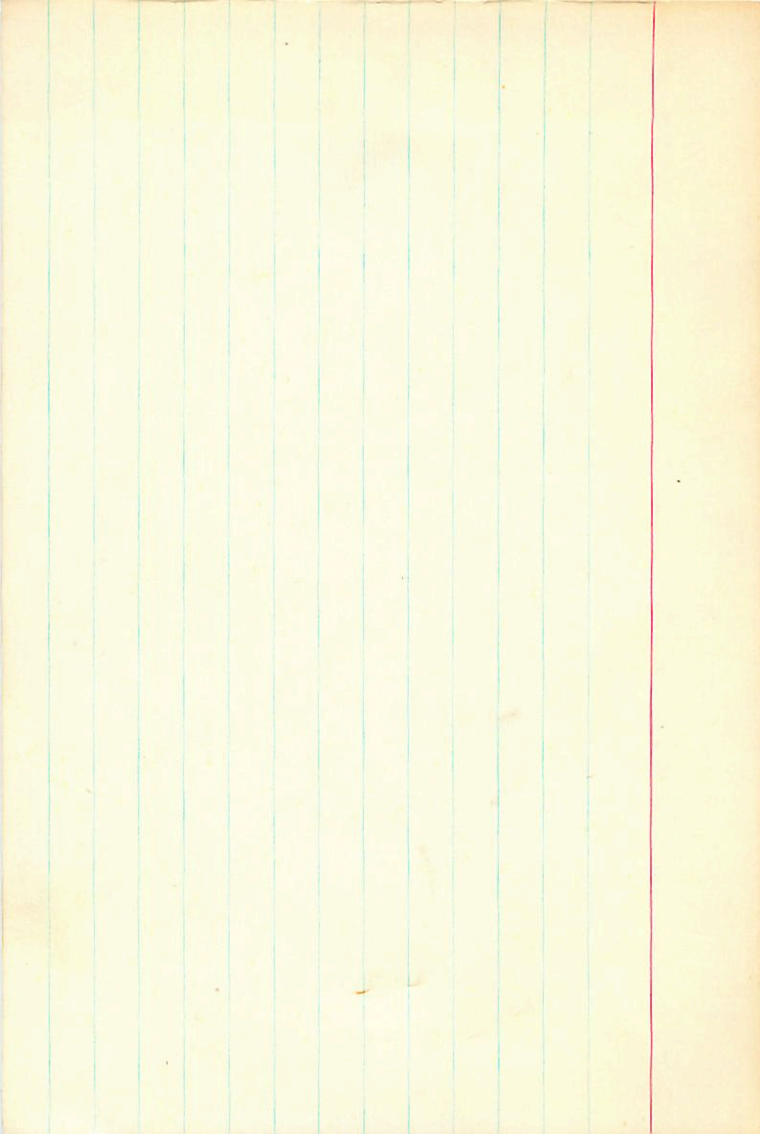


H4

SSTan 3 34.1 +5 12

-50 d

+032 +026 03





22465 104 3 342 00 26 d69 -23 c w(7) 240(40)  
f-c 311  
6-1974

dnc -14,48 w(4)

-12 (orbit)

wissk(70)

$$\rho = \delta =$$

Σ m<sub>2</sub> r<sub>2</sub>

-28

-74

505

Assoc

4761

+0.616

6'' S

1017 -160

-025 -160 GC

1017 -160

225(7)

124(28)

144(11)

240(4)

2555

S.S

4761

+46

0246 7.7 0600 (C6)

1840 0350 1840

191-300

-0017 ± 1.8  
 -0018  
 +0 25  
 -160 ± 1.4  
 -157 K3  
 33.7  
 1897.3  
 -29  
 C.23

13,159 1900.8  
 +0 25  
 33.7  
 1897.3  
 -29

$\frac{084}{273}$   
 -0017  
 $\frac{8.43}{41.60}$   
 -42

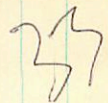
13,158  
 26  
 214  
 35.65  
 20  
 35.95  
 1934.2  
 13.66

35.15  
 34.28  
 +25  
 1934.46

13,149  
 +7  
 204  
 -064

-031  
 -029 -162  
 35.06  
 35.46  
 36.3  
 39.0

13,148  
 13,159  
 20.48  
 30.43





CARTRIDGE OUT

3.550

0.400

-44.000

-162.000

2.050

26

-15.000

0.469

0.478

0.743

-465.040

-23.094

-0.664

0.745

-0.061

-433.563

-10.232

0.582

0.465

-0.607

SP (M)	:	0.00
SP (M)	:	0.00
LP (M)	:	0.00
U	:	0.00
UB	:	0.00
SP (U)	:	0.00
SP (U)	:	0.00
LP (U)	:	0.00
U	:	0.00
UB	:	0.00
SP (U)	:	0.00
SP (U)	:	0.00
LP (U)	:	0.00
LEG. VAL.	:	0.00
MODULUS	:	0.00
DISTANCE	:	0.00
RM. DEC.	:	0.00
RM. R.A.	:	0.00
DEC.	:	0.00
R.A.	:	0.00



R.A. : 3.55  
DEC. : 0.40  
PM. R.A. : -28.00  
PM. DEC. : -164.00  
DISTANCE : 2.05  
MODULUS : 26  
RAD. VEL. : -15.00

q1 (U) : 0.46  
q2 (U) : 0.47  
q3 (U) : 0.74  
dU : -434.04  
U : -22.29

q1 (V) : -0.664  
q2 (V) : 0.745  
q3 (V) : -0.061  
dV : -491.001  
V : -11.708

EE

q1 (W) : 0.582  
q2 (W) : 0.465

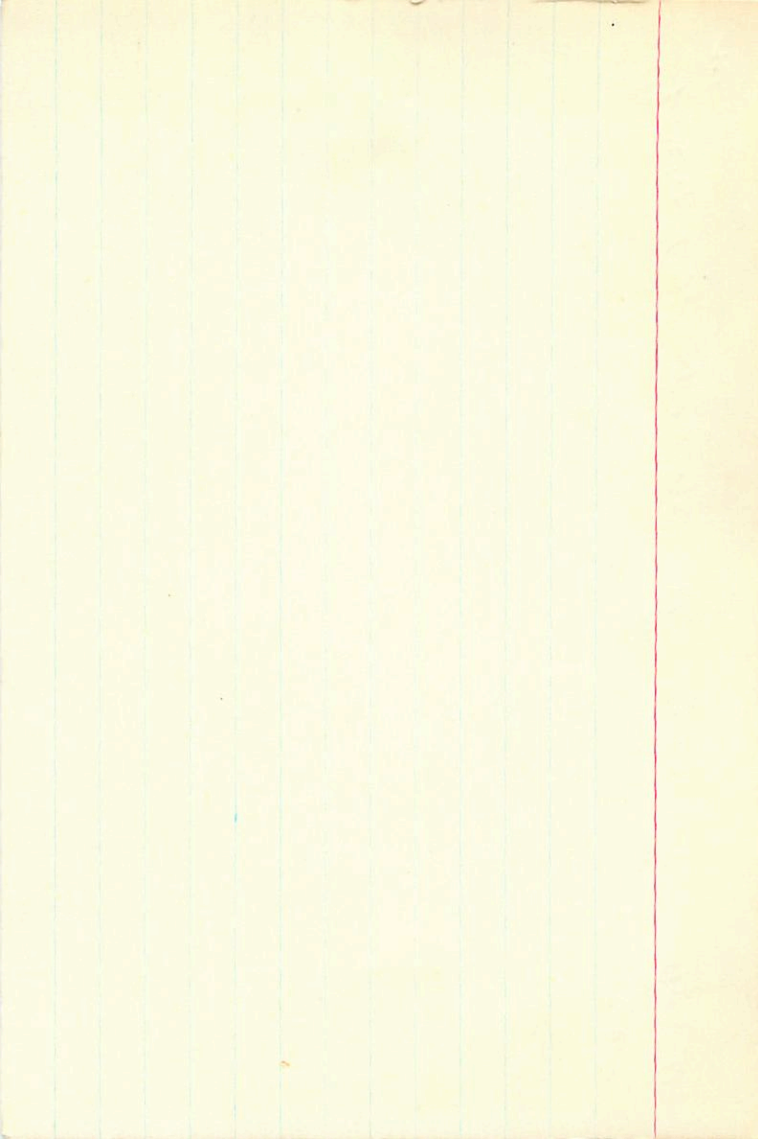
180514 3 345 + 15 26 51 + 51 26 8.6 d=7 42.37  
4478 @ 447

2002

6007  
77  
+ 1003 ± 63  
+ 141 ± 5

+ 1000

51-





18° 51' 4"    34.5    +18    26    8.6    47    +42.38    14

12002

8.74

+0.515

-0.005    S = +0.05

81.3

20100 - 0.15    0.5d

+464    +224    +857    +3130    +25.4    +36.2    +61.6

-664    +729    +164    -479    -36.4    +7.1    -25.3

+587    +647    -486    +3589    +32.2    -20.6    +11.6

48

245  
262  
511

20855

3 306

463 43

+160000

680 46 -08

40

820 83 40

(RV)

PM 20

-0013-083 (H)

-009-037

-20

87

2.5

+16000

34



R.A. : 3.600  
DEC. : 63.700  
. R.A. : -20.000  
. DEC. : -37.000  
STANCE : 2.500  
ODULUS : 32  
. VEL. : 16.000

q1 (U) : 0.459  
q2 (U) : -0.454  
q3 (U) : 0.764  
dU : 60.360  
U : 14.129

q1 (V) : -0.663  
q2 (V) : 0.397  
q3 (V) : 0.634  
dV : -41.744  
V : 8.831

q1 (W) : 0.591  
q2 (W) : 0.798  
q3 (W) : 0.119  
dW : -164.732  
W : -3.000

34

2087

22369

3 35.6 +63 43

+130437

~~1000~~ 64.5  
-157 6.4

33657  
-883  
32774

6.3  
10205  
121

57.63 5.3  
7.02  
64.65

38544

448

85.93

+7  
581  
~~43.44~~

24  
88.69

+0006 ± 4.8 -020 ± 5.1 -9.2 (8)  
-0006 -932  
+20 45 6.4 A0 -5.48

22615 3 36.1

6.42 + 15 + 19 A4111

2015

4341 5,699 1500.7 +20 45 15.15 1901.3

$$\begin{array}{r} 030 \\ \hline 5,669 \end{array}$$

$$\begin{array}{r} 5,673 \\ 10 \\ \hline 683 \end{array}$$

(29.7)

155

$$\begin{array}{r} 38,593 \\ 26,978 \\ \hline 5,571 \\ 5 \\ \hline 62 \end{array}$$

$$\begin{array}{r} 652 \\ \hline 017 \end{array}$$

$$\begin{array}{r} 5,624 \\ 14 \\ \hline 650 \end{array}$$

$$\begin{array}{r} 1.27 \\ \hline 16,42 \end{array}$$

$$\begin{array}{r} 15,43 \\ 25 \\ \hline 15,68 \end{array}$$

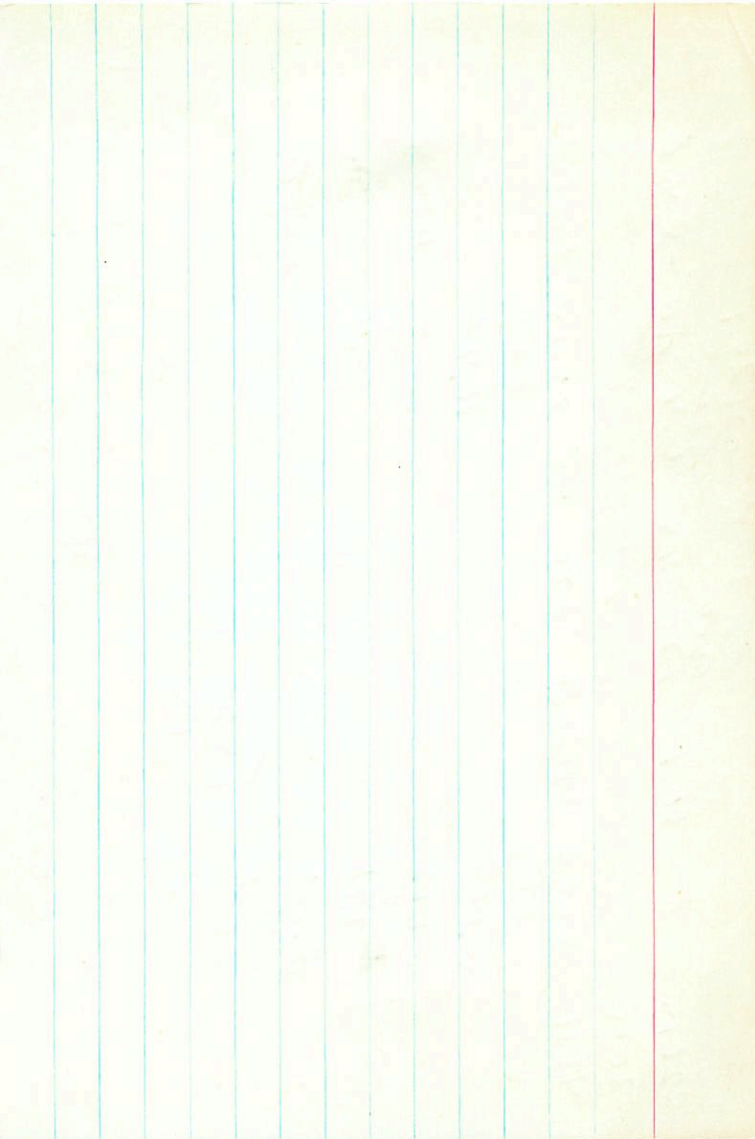
1929.0

$$\begin{array}{r} 19,55 \\ 56,95 \\ \hline 16,50 \\ -1,30 \\ \hline 15,20 \end{array}$$

1928.0

$$\begin{array}{r} 15,64 \\ \hline 15,60 \end{array}$$

913  
30.4  
29.1





+19 011

R5 III +5.9

22728 3 36.2 -31 28 7.25 +157 2.57

664343

~~0000 78 +021 = 8.0  
 +024 45.02  
 -----  
 1.05  
 46.10~~

9.299 1898.9  
 -----  
 -0002  
 -----  
 -0001 +025  
 +

1898.2

8.994  
 12728  
 -----  
 9.268  
 +  
 -----  
 9.276  
 +  
 -----  
 9.288

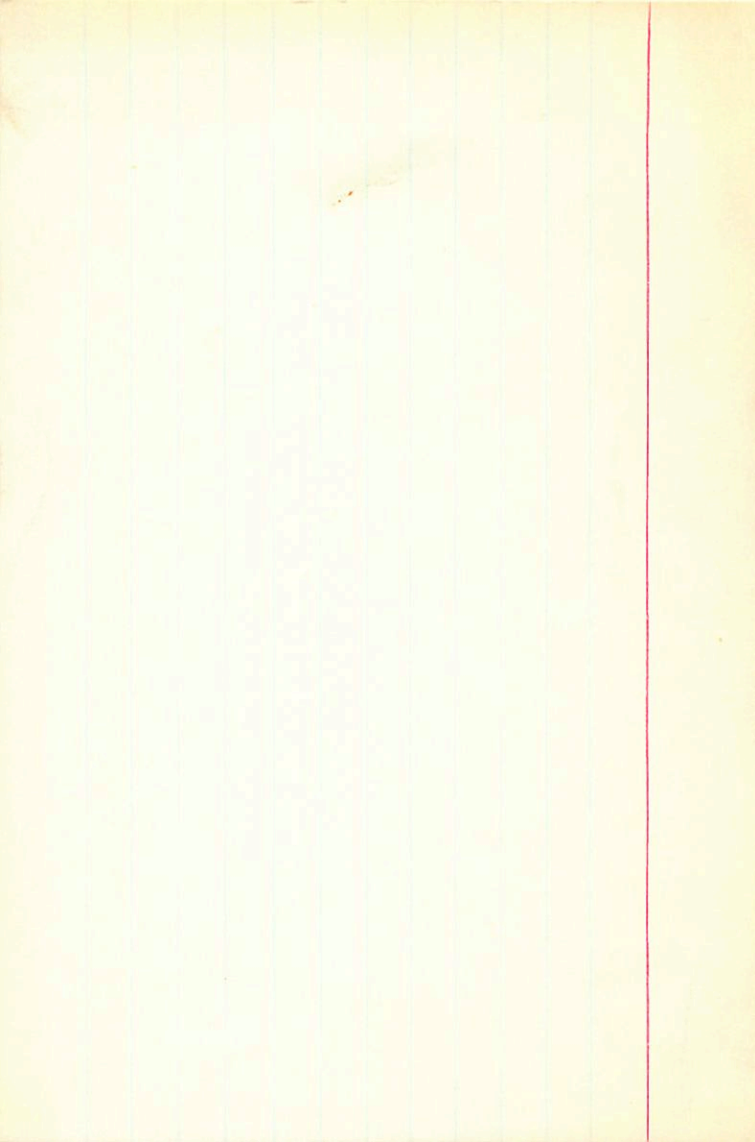
190.70 1926.70

56.05  
 -----  
 49.65  
 - 90  
 -----  
 55.5  
 45.27  
 -----  
 45.

-0031 +35

000 +023

12728



270  
22789

4058  
+0014 ± 2.7  
+0027  
+028 ± 2.7  
54.17

4351

+00175 +030  
+00184 +029

+35.06

42.775 ± 1907.5 - 28 6 19.25 1906.4

-060  
1,715

+0243 +029 -1.22  
20.50

40.412  
2350

30.7  
+0225  
+025 +026  
+5.12

112.92  
376

42.762  
779  
+115  
796

779  
779  
+064  
796

31.7  
6.54  
19.16  
20.31

1246  
36.2

31.2

17.639  
22524  
42.775 ± 1.2/299

12.768  
769  
799

16.93  
5702  
19.225

19.73  
19.51  
19.50

1935.69

1100  
+1100

154046



38

$$-8040 \pm 150 \quad -117 \pm 13.0$$

$$22946 \quad 3 \quad 376 \quad -42 \quad 55 \quad 8.22 \quad +5$$

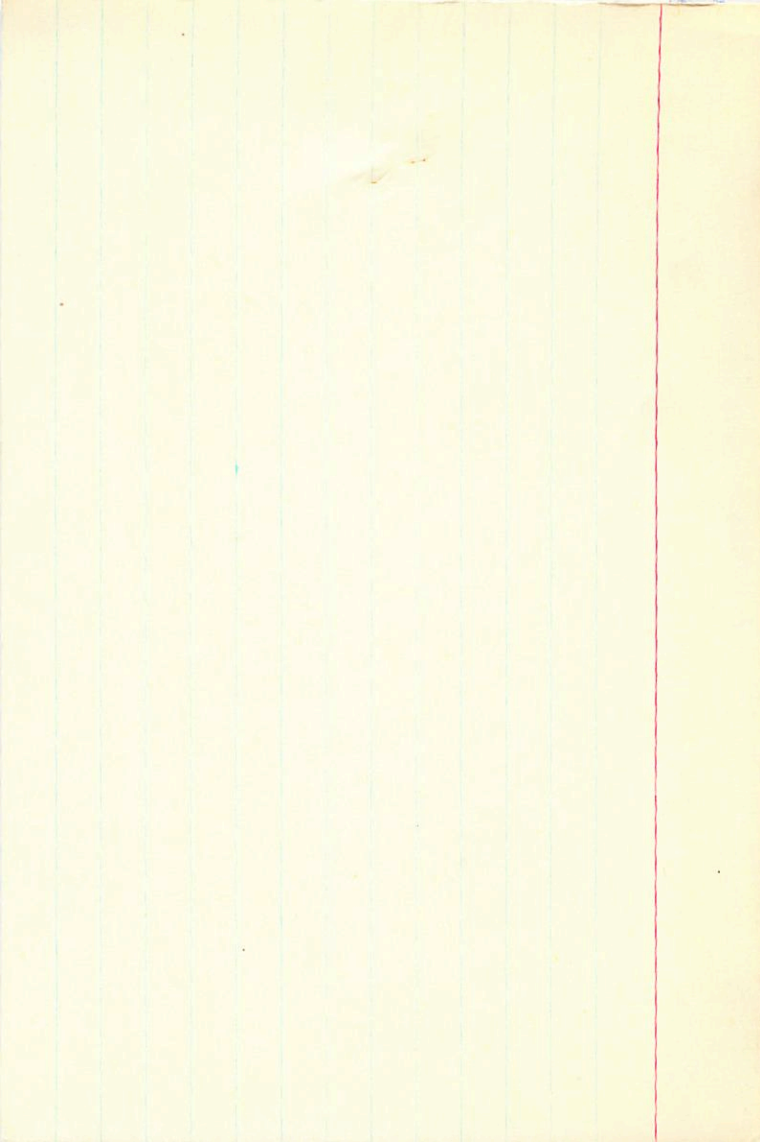
F8V +

4374

$$33.804 \quad 1901.8 \quad -42 \quad 55 \quad 20.85 \quad 1$$

$$\frac{193}{.997}$$

$$\frac{5.72}{15.13}$$



1105 AR

3 37.8 +63 03

+63.597

254

~~W~~ W351  
-00236 +0280

-00229 +0276

-0156  
-018 +025

3.6

+63

-40  
+25

6.0

-22.3

26



P.A. : 3.488  
DEC. : 43.000  
EM. R.A. : 140.000  
DEC. : 150.000  
DISTANCE : 2.800  
MODULUS : 178  
RAD. VEL. : -33.300

d1 (U) : 0.452  
d2 (U) : -0.442  
d3 (U) : 0.702  
d4 : -22.187  
U : -31.792

d1 (U) : -0.452  
d2 (U) : 0.402  
d3 (U) : 0.402  
d4 : 100.000  
U : 2.210

d1 (U) : 0.792  
d2 (U) : 0.291

R.A. : 3.600  
 DEC. : 63.000  
 EM. R.A. : -40.000  
 EM. DEC. : 25.000  
 DISTANCE : 6.000  
 MODULUS : 158  
 RAD. VEL. : -22.300

q1 (U) : 0.459  
 q2 (U) : -0.445  
 q3 (U) : 0.769  
 dU : -92.187  
 U : -31.765

q1 (V) : -0.663  
 q2 (V) : 0.405  
 q3 (V) : 0.630  
 dV : 105.043  
 V : 2.610

q1 (W) : 0.591  
 q2 (W) : 0.799  
 q3 (W) : 0.799

264

4

36

23358

75244

CC 4407

3 38.5 - 74 59

-0074 ± 2.5 -008 ± 2.1

24.961 979

3.85 954

55.019

52458

48584

370

4954

11

965

2413

52.50

4488

352

436

3.16

± 3

3.03

49968

55.51

2.76

1819 (17)

+260601 3 39.5 +24 25 9120 +32.58

28007

7.6

455  
3.

+024 -026 8

+3 -1

+077 -027

818 575 Y45 896 +024 -026 +32.5 -012 +14 -109  
-061 010 043 -007 -256 251 +29.1 +17 +24

-2 +43 +6

013

+41 -16 -2

23065-616017

3 29.5 -10 51

CC252

PPM

dG7 +1.96 w(13)

w 2041

0200-259

-11°714

300-259

8.24 +0.72 +0.22 E99(2) 18" S(u=3) = .07

f 770

Lin	+32	-25
y	+286 ± 10	-239 ± 11

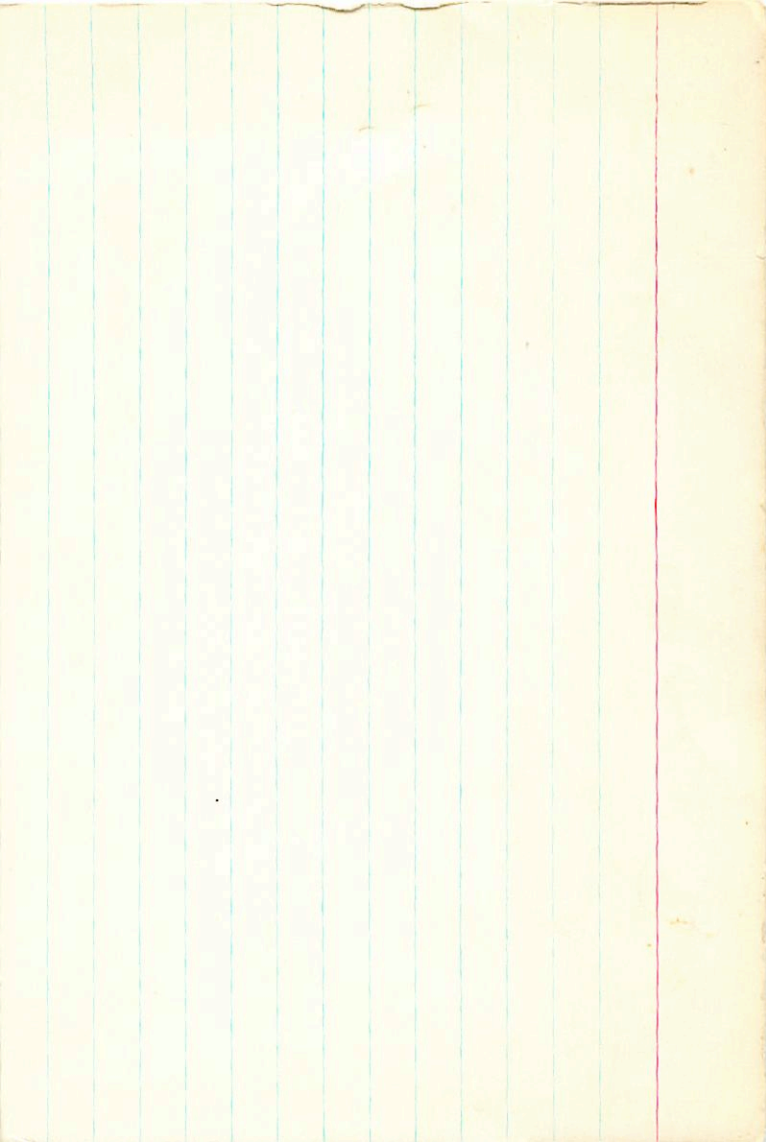
+0209

-254 9600 WW  
-239 ± 11  
→ y → 6c

+0194

+5	-60	H8	.030
<del>25</del>	<del>-69</del>	<del>H9</del>	<del>.025</del>
-2	-86	+21	.020

0274(10)  
0439(4)  
0210(4)  
2647



2052

3 348 +17 08

~~2052~~  
-25 Jan

0055 +032 Sunday

122 +32

128

82

2.5

-2.5





37

Handwritten text on a piece of paper, possibly a receipt or invoice, with some illegible markings and a small blue mark.

Handwritten text on a piece of paper, possibly a receipt or invoice, with some illegible markings and a small blue mark.

PM.	R.A.	"	3.650
	DEC.	"	17.150
	R.A.	"	-128.000
	DEC.	"	32.000
		"	2.500

23214

3 40.2

434 35 1/2 #

-2.04C

F0845

8.94 + 1.18 (2.24)

val

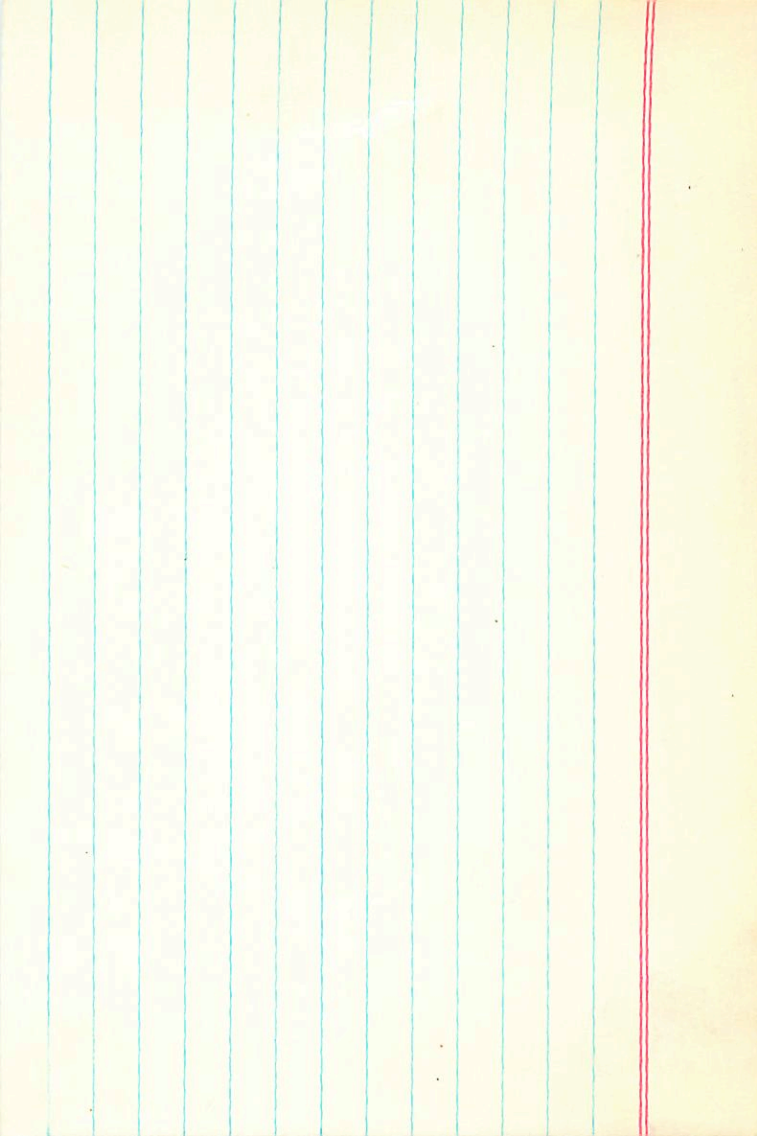
-0.23 + 0.60 CPA

-0.015 + 0.18 Mean

0.35 - 0.08

~~1.5~~ 0

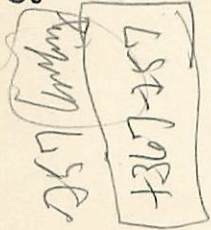
-0.19 + 0.60 →



23650  
G-64442  
W 2046  
4769  
+420812

3 40.4 +42 27 d60 +31-78w13)  
7.47 +0.59 +0.03  $\overline{6-25}$  R

$\delta = .09$



+59 -48 +2 .030  
+75 -79 +5 .020

+366<sup>55</sup> -244<sup>24</sup> ac

447  
257  
270  
4317

2978 A(16)

265  
606  
505  
29

38

R.A. : 3.650  
DEC. : 42.450  
PM. R.A. : 497.000  
PM. DEC. : -257.000  
DISTANCE : 2.700  
MODULUS : 35  
AD. VEL. : 31.700

q1 (U) : 0.449  
q2 (U) : -0.150  
q3 (U) : 0.881  
dU : 963.649  
U : 61.334

q1 (V) : -0.662  
q2 (V) : 0.606  
q3 (V) : 0.441  
dV : % -1889.077  
V : -51.521

q1 (W) : 0.600  
q2 (W) : 0.781  
q3 (W) : -0.172  
dW : 90.751  
W : -2.318

380



23139 B 41.2 +45 57 6.1 g AL +8.66

2061

27

N30

4459

-0002 -020 N30

-0003 +4.6 -036 ±3.7

-002 -028

18640.

435 -209 878

-660 584 870

610 784 -117

-0041 +0277

+0063 -0775

-0058 -1040

+0236 +4.4 +7.5

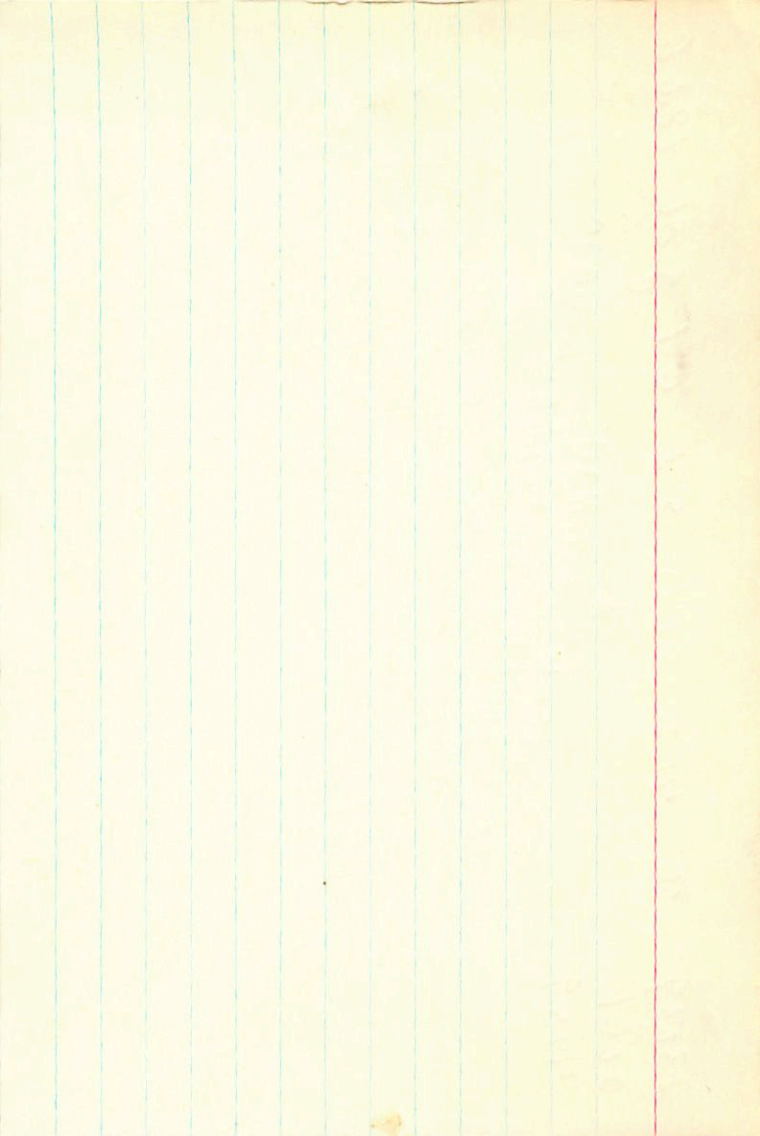
-0712 -13.2 +4.0

-1098 -18.7 -1.0

+11.9

-9.2

-19.7



✓ 25554

3 413 + 25 03

104

~~4002-0117~~

40036-049 Landung

410-9104

4444  
✓ 445  
334

✓ 4779

9453 64565

336

3362-8739