

$480399$     $6.76$     $495$     $295$     $426$     $6.390.262$   
 $1593$     $+5.45$     $6.55$     $444$     $03.8$     $329$     $T15$     $23$     $1205$   
 $+1501065$     $6.76$

$627790$     $3$     $4$     $-0076 \pm 4.1$     $-111 \pm 3.9$   
 $48.612$     $89.4$     $-0076$     $5932$     $88.5$   
 $468$   
 $95080$     $6.53$   
 $6.15$

$0776$     $-110$   
 $0075$     $7083$

$14.425$     $34414$     $35.10$     $(Landing)$     $3.81$     $6.95$   
 $48.874$     $-0085$     $106$     $-2.83$     $+15.555$

$-112-108$

$71$     $7414$   
 $6418$     $5595$   
 $8119$     $6655$   
 $7624$

$875$     $123-106$   
 $123$     $178$   
 $875$     $706$

$0.99$     $116$   
 $2.5$     $-108$   
 $0.73$     $0.98$   
 $10$     $-138$   
 $0.63$

$1555$     $48.491$     $63.06$   
 $6061$     $124$   
 $0.45$     $520$   
 $0634$     $0.47$

$58.20$   
 $60.85$   
 $54.09$

951

44379

648 672-497 453 1 5/8 in

6 16.4 ~203 36 100

23.3724

648 672

9775 - 4753  
- 3973 - 8748

0724  
6031  
+067

(0817)

-027 073

120  
120  
120

30.556 84.0

-0081587 -060± 23  
-0022  
-0014

-07747.77 55.2

158  
914

49.48

28.352

34.33

8.10

35.18

46.24

30.617

-0024 -068  
-00245 -064

113  
47.41

15  
131

4.24  
47.17

32.15

80.834

+ 15

644

47.53

+ 13

47.40

-02205 -0230

-000204 -0736

-00240

-00203

-0304

A065 237 26 6 333 +07 20

+271164  
 -00057 -0464  
 -00052 -0954  
 -00045 -0442  
 3574 -1092  
 9340 -5440  
 0274  
 287  
 6.90  
 7.15  
 8.25  
 -1100  
 -1114  
 -1133

m. 7.15 - 8.15

-006.65 - 094.65

300

6.90 0.406 190 430 2.105 1.28

1 312 349

312 349

4583 -8896

400 310 350 +48

1009 -6889

5127 1274

19.4

2.8

The above items were completed over a list of period (11.6.1958) since  
 delivery and although data points have been computed that by  
 Page (W. 1948 J.N. 276, 265) perhaps the amount of deviation  
 with  $a = 0.055$ .

+0011 553 -047 755

18449 2.0 +0003 -11019.42 9Y5

~~-003~~

+0007 -103

5.27  
29.69

+0006 -1018

29

15.425

+130

15.455

1265 5252

1263

16 days

4 54.0 +45 10 -9 e

258.5

4.89 +0.03 +0.06 A2E

-015 -005644

509 MB

~~1000-0019~~  
1000-0019

677 163 110 12875

-020 -0046-2  
-020 -005F

500-610  
019-005

110 (4) 010

-9773

2371  
4415

0776  
0214  
2003

0210

972 - 233 207 207 - 015 - 005 - 9 - 004 - 6.3 - 015  
018 004 004 001 081 035 - 6.3 + 1.5 - 6.1 008  
+ 12 - 1 - 5

+ 6.9 - 3.6 - 7.6 015  
- 6.1 - 0.8 - 8.9

+ 5.0 - 4.4 - 7.1 023

- 6.8 - 0.9 - 4.9



1411  
1411K  
1826  
1826  
1780

20 35.1  
30 71.9  
2 11.7

-025 174 864 2882  
1.85 974  
1.51

ON (PMP)  
23 413

5.00  
-45 26  
1.85 20.01

44.38

At supd 23 413  
-1020.016  
-021.016

-247 -1955 40  
-0277

-029 -104 0-0  
-023 -055 1  
-024 -100

-024 -093  
-020 -090

9445  
-0841  
-9849  
2000  
2000

LCI P=0.92

PAGE 73, 410  
with 6 PMP  
-15-93

8486  
-15

355 444  
PMP 355

79 1978

Boque Hayer  
10-2-012

-9.01  
3.04  
-116

3.00

-022 -012

11.3

0 55

7.2  
-45.100  
-31.000  
-90.000  
3.850

59.5 8.  
0.000 887

1.4  
-0.333

0.915  
0.229  
-368.596  
-21.705

-22.02 15

-0.329  
0.114  
-0.937  
-16.237  
-0.956

+626 14

0.883  
0.388  
-0.263  
-262.591  
-15.463

75.10 10

20 332

762034

7 36 52.0 -89 11 18 1000

-3403471

1475  
184

6460341

2532

662 1.11

93

96

9843 -1970  
-1400 -9804

9740  
2011

-1977  
802

0257  
0541

10005-0000  
10005-0000

+133

only  
now

7238 36.01 -89 18 12.0  
+0525

6209

-1013 -078 Shy

3.46

1542451

-50125 -077  
10501

-0195  
5410

510-110-075

76

156

+0005 +3.4  
+0008 +0.23

65429 7 58.0 +61 08 6.7 4F3 -20.08

5325

10846 58.278 1891.9 +61 7 56.98 1885.0

-0.29

1.249

-0002 +026

48.44

9.595

076

-3060

4023

4155 +9520

58.450

2.245

1.227

July

1.58.26

5-8.260

44

1.304

571

260

403

4.05

+80

19.8

(215)

55.29

10.6

2.58

58.02

2.98

55.23

36.2

19.4496

1926.7

7136

35.7

(50.7)

5-4.54 1944.96

5.25

19.19

19.19

5.25

19.19

19.19

291



Rd

0.000	:	VEL.
10	:	DOUBLES
0.000	:	STANCE
0.000	:	DEC.
0.000	:	R.A.
01.150	:	DEC.
0.000	:	R.A.

0.000	:	U
0.000	:	DU
0.775	:	P3 (U)
-0.399	:	P3 (U)
-0.424	:	P3 (U)
-0.424	:	P1 (U)

0.000	:	U
0.345	:	DU
0.217	:	P3 (U)
-0.205	:	P3 (U)
-0.205	:	P1 (U)

AS1

R.A.	:	8.000
DEC.	:	61.150
R.A.	:	0.000
DEC.	:	0.000
STANCE	:	0.000
MODULUS	:	10
VEL.	:	0.000
q1 (U)	:	-0.494
q2 (U)	:	-0.399
q3 (U)	:	0.772
dU	:	0.000
U	:	0.000
q1 (V)	:	-0.202
q2 (V)	:	0.917
q3 (V)	:	0.345
dV	:	0.000
V	:	0.000



69 III

68077 8 09.9 + 56 36 5.9 9.69 + 7.1 8

5440

11158

23

-0018 -043 N30

-0020 ± 2.0 -036 ± 1.8 6-6 → N30

3200

-021.9 -032.8

FINS

(E)

8110 -1-419 0343

5850

-8405

-0005

3343

FRST

754.6 + 211.9

11625

72922

0622 ✓ + 215  
06214 + 2167

7510  
147 + 219

8 27.3

- 80

45

- 061327.5

22.455

3.164

25.624

21.012

21.012

21.012

21.012

21.012

21.012

21.012

21.012

21.012

21.012

21.012

21.012

21.012

21.012

2224

+ 215 ± 2.5

6.06 98.4

- 1204

51.11

17.15

18.1

1.74

1.74

1.74

1.74

1.74

1.74

1.74

1.74

1.74

1.74

1.74

1.74

848

✓ - 8075

- 914

618

010

127.4

8.22

713

504

504

504

504

504

504

504

504

40.50

8.22

713

504

504

504

504

504

504

504

23.035

23.035

23.035

23.035

23.035

23.035

23.035

23.035

23.035

23.035

20.460

20.460

20.460

20.460

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20.460

20.460

20.460

3407<sup>+</sup> 0000 ± 4.9 + 015 ± 3.5  
-0014 + 009

73155 8 33.2 -49 46 4.9 180 + 4.4a

5650 1.248 1.036 352 0.460 layer 8766 -6098 0802  
11783 12.031 1909.4 -49 46 16.27 1901.9 9812 -7964 -3

47.5% 5(48+46) 28314 +0005 +018 00 → -72 6  
23.1 12.010 -0009 +012 00 → 16.99 6

706 005 0 +015 16.64 1938.62

591 7805 +044 16.64 1938.62  
-109 -025 -963 9489  
+758 1552 -103 47.4

0.830  
-0.125 0.154

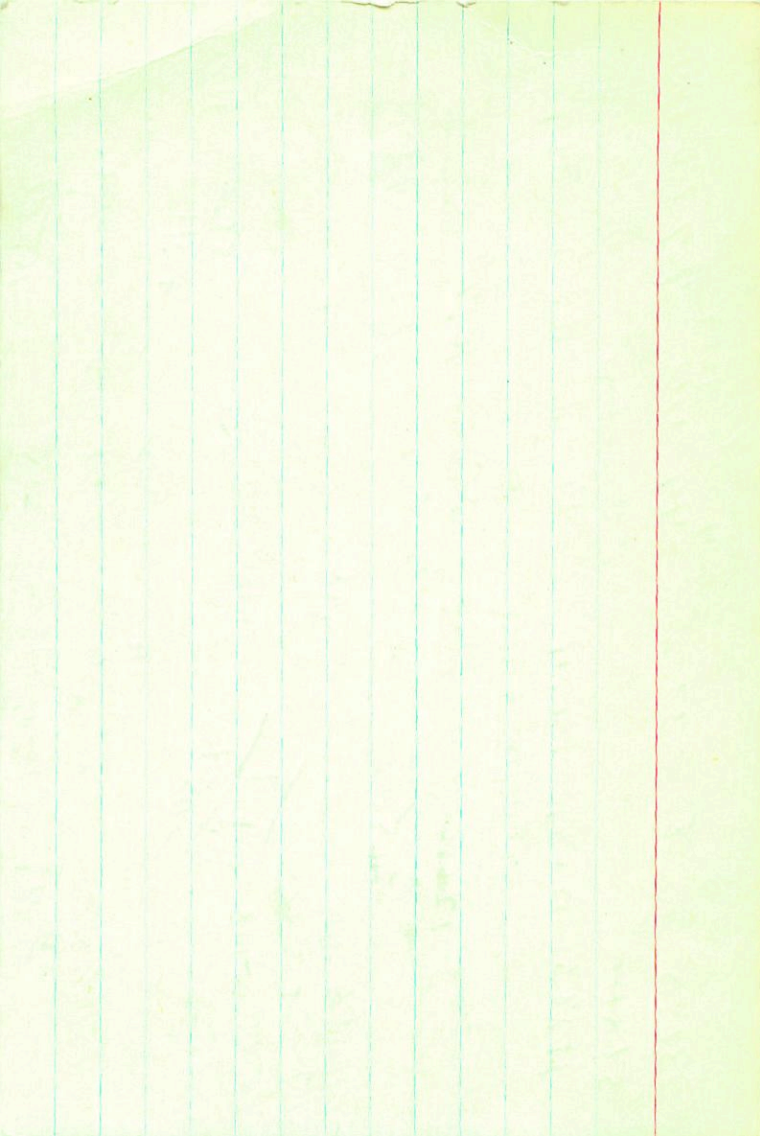
11977 11.611  
-0.54

1400 0044  
E(6m) 0044  
V0 = 11.559  
-10 949

0 + 0.564  
0 -0.018  
0 + 0.17

16.23 1956.27  
-2.8  
16.51

Fit  
8.5  
11.7  
9489  
47.4  
45.5



-0005 + 106  
-0003  
-250 + 8.7  
-288

1074542 8 43.0 -42 27 75.9 1.1 5.10

12062 32 43 7.20 +0.74 652

-002-286 1+

57.501 19065 -42 26 52.62 1699.9

240  
024  
525

19 5 (Doubtful)

1403  
38.59

0272

10004 240

20.27 1527.52

0274

3.844  
53.665  
57.509  
51.6  
51.1  
5.14

25.52  
45.82

075

1004.4 - 240.0

40.59  
46.13

9865 0813 740  
1037 -9995 7065

9896-1565 0290-5996

to -20

758-653 -676 737 -002-286 +5.0 193 -3.4 -1.000

002-144 001-126 606 -687 +3.7 -2.4 +2.5 04

+12.7 -14.4 -28.4

-24.9 -8.6 -22.0

05

+9.7 -11.1 -23.4

-14.9 -4.9 -12.6

SM 3M5  
1411 ✓  
+26  
9C+  
91  
5-  
5-  
8  
2522-  
252508

682 120 143 824 2509  
734  
232  
8812183

8 47 1421 41 8  
92 12 8

3450  
2402  
-0.9  
SUBB-  
1010  
1860  
9287

1000-

000-000

0216  
332

8950  
0910  
1887  
9667  
9287  
9150

22

$$\begin{array}{r}
 1.0600 \\
 13.142 \\
 \hline
 14.202 \\
 14 \\
 \hline
 146 \\
 114 \\
 \hline
 21
 \end{array}$$

3417

24.08

-3208

1.140

-98

2.14

122.84

73.14  
242.57

$$\begin{array}{r}
 142.23 \\
 222 \\
 +5 \\
 \hline
 227
 \end{array}$$

+60007 -012  
-00015 -0624

$$\begin{array}{r}
 48.69 \\
 -1330 \\
 \hline
 1.97 \\
 -14 \\
 \hline
 8.13 \\
 11 \\
 \hline
 1.98
 \end{array}$$

22 314  
2508  
100

3828  
13280

4145

54.53  
302

1.2.75 44.7  
-058  
-067  
0664 664

70004 664  
+00001  
-00003

14.244 00.4  
-020

$$\begin{array}{r}
 44968 \\
 24255 \\
 \hline
 224
 \end{array}$$

$$\begin{array}{r}
 142.23 \\
 222 \\
 +5 \\
 \hline
 227
 \end{array}$$



$$784 \text{ ma} = 4 \text{ P. } 7739$$

$$P = 106.76 = 1.281$$

Haupt, w. 1951 Ap. J. Supp 48, 155

$$\sum m m_i = 2.96$$

$$+3.0 + 5.5 \quad \Delta M = 2.4$$

$$\text{mass} = \frac{1.4}{1.0} = 1.4$$

40  
5054  
405889

$$P = 0.056 \quad \sum m m_i = 6.84 = 5.81$$

$$a = 0.0115$$

$$= 2.33$$

$$6.9 \quad L = 300$$

main mass 2.45

405889 P. 40589

Model 4 x 10<sup>4</sup> yr 2.4

+202098  
C0498

8 52.6

+01 46 9.9 dm1+3c

52

5861

4949 1032  
4064 1030  
4064 1031  
4068 1031

+11 -1.08 cm498

5992 1206 50305  
8021 5929 -0668

29  
30  
31

109 221 877 28886

3552/53 8 530 27 47 43/4m

6.07 +2 +11 C +52-19.85

76369/0

1233415 6.08 111 206 883 28834 17,1,1,3  
E (B) 02V 03 239 661 89 19.8 510

2.4493.5  
1/510  
-000229  
T0004

(2)

040

~~0000~~

~~1000000~~

1000000  
1000000  
1000000  
1000000

2.572  
+ 547

(3.58)

10024

1004-030

-041 ± 8  
030 4044

4409 +06 030  
10000  
501  
4044  
8668  
-450  
4044

1.378  
+ 40  
3.541

0110

5.21

1.79

A

2.524 ✓ 116 ✓  
1000 ✓  
1000 ✓

-028 72.1  
-033  
-032 7405 575

2.524 ✓  
+116 ✓  
538 ✓

124  
12.31  
44.25 ✓  
+40 ✓  
82.98 ✓

2.554 ✓  
+23 ✓  
597 ✓

650

45.00  
713  
44.97

+0004 -0325

+00016 -0334

159

120

0.000 : R.A.  
 0.000 : DEC.  
 0.000 : R.A.  
 0.000 : DEC.  
 0.000 : STANCE  
 0.000 : ADJUS  
 10.000 : VEL.

0.000 : P1 (W)  
 -0.047 : P2 (W)  
 0.000 : P3 (W)  
 0.000 : UB  
 0.000 : U

-0.047 : P1 (W)  
 0.000 : P2 (W)  
 -0.047 : P3 (W)  
 0.000 : UB  
 0.000 : U

P1 (W)  
 P2 (W)

681

R.A. :  
DEC. : 8.900  
R.A. : -7.800  
DEC. : 0.000  
STANCE : 0.000  
ODULUS : 0.000  
VEL. : 10  
0.000

q1 (U) :  
q2 (U) : -0.649  
q3 (U) : 0.559  
dU : 0.516  
U : 0.000  
0.000

q1 (V) :  
q2 (V) : -0.047  
q3 (V) : 0.647  
dV : -0.761  
V : 0.000  
0.000

q1 (W) :  
q2 (W) : 0.75

6.48 094 185 1098 2.829 60

A3/5 III (am)

79025 (620)

9 088.1<sup>2</sup> -49 13

A90.24 -134C

Fed 1163

2.2 + 0.20

6.477 + 0.17 (1.58)

50.9

6612663

2.2 + 0.20

+0007 ± 9.5 -008

-2-18.35  
5.775

3647

4.092 1900.7 + 0002

11.18 18964

$\frac{-0.34}{0.58}$   
 $\frac{+2.36}{5.82}$

stay

-0.27

-0005 -034

13.665

-0001 -0306

3.60 1927.21  
-0.246

50.4070

4.0066 -00049

5.35

✓ 0.6

664  
+0004 -027

8.03  
8.95  
-0.92

9992-12322  
-0011  
-0.7

8.99

9999-9999

9.08

0071  
14.00  
Kus  
5.775

Q91



10

Handwritten notes, possibly a list or sequence of numbers.

Handwritten notes, possibly a list or sequence of numbers.

DEC. 19

99

140.150
9.000
9.000
9.000

122

F.A. : 8.050  
DEC. : 15.550  
PM. P.A. : -127.700  
PM. DEC. : -100.180  
DISTANCE : 8.250  
MODULUS : 10  
RAD. VEL. : -14.200  
P1 (U) : 8.050  
P2 (U) : 8.250

P3 (U) : 8.270  
DU : -20.207  
U : -14.871

P1 (U)  
P2 (U)  
P3 (U)

SS1

R.A. : 6.050  
DEC. : 15.550  
PM. R.A. : -127.700  
PM. DEC. : -106.000  
DISTANCE : 0.961  
MODULUS : 16  
RAD. VEL. : -14.20  
q1 (U) : -0.07  
q2 (U) : 0.23

q3 (U) : 0.970  
dU : -70.907  
U : -14.871

1 (U) :  
2 (U) : -0.40  
3 (U) :

648 672-997 453 1 system  
6 16.4 ~203 36 100

44379

23.3724

648 672

688171

[-027 072]

028 061  
+ 910

14 30.56

9546 [8803]  
2448 [14632]

-036

[-033-069]

9995 -4783  
-2973 -874.8

0724  
6031

1067  
0248

3024

-23 36 478

0744

0080

417

-0021 -073  
-0035 -074

-0323

[-080-074]

$$\begin{array}{r} 30.556 \\ 158 \\ \hline 714 \end{array}$$

$$\begin{array}{r} -0001587 \\ -0022 \\ -0019 \end{array}$$

$$\begin{array}{r} -07747.77 \\ 329 \\ \hline 49.48 \end{array}$$

$$\begin{array}{r} 28.352 \\ 2.265 \\ \hline 30.617 \\ 620 \\ 15 \\ \hline 635 \end{array}$$

$$\begin{array}{r} -0024-068 \\ -00245-064 \end{array}$$

3423

$$\begin{array}{r} 30.634 \\ 18 \\ \hline 649 \end{array}$$

$$\begin{array}{r} 47.53 \\ 513 \\ \hline 4740 \end{array}$$

33.15

$$\begin{array}{r} 8.10 \\ 88.18 \\ \hline 46.24 \\ 112 \\ \hline 47.41 \\ +29 \\ \hline 47.17 \end{array}$$

$$\begin{array}{r} -00205-0230 \\ -00324-0936 \\ -00210 \\ -00203 \\ -0304 \end{array}$$

-0027 ± 3.5  
-0029  
-45 06  
-0027

56022 7 11.7  
4774

-048

9591 43.556 1907.6 -45 5 42.50 1902.8

$$\frac{114}{670}$$

$$\frac{+491}{37.59}$$

-0028 -097

$$\frac{43.590}{-16} = \frac{574}{3}$$

-00262 -0946

40.96 1939.24  
+10

00008

00058

40.86

$$\frac{9516}{47.6} = 44.8$$

$$\frac{111}{556} = 1.14$$

$$\frac{333}{41.66} = 4.07$$

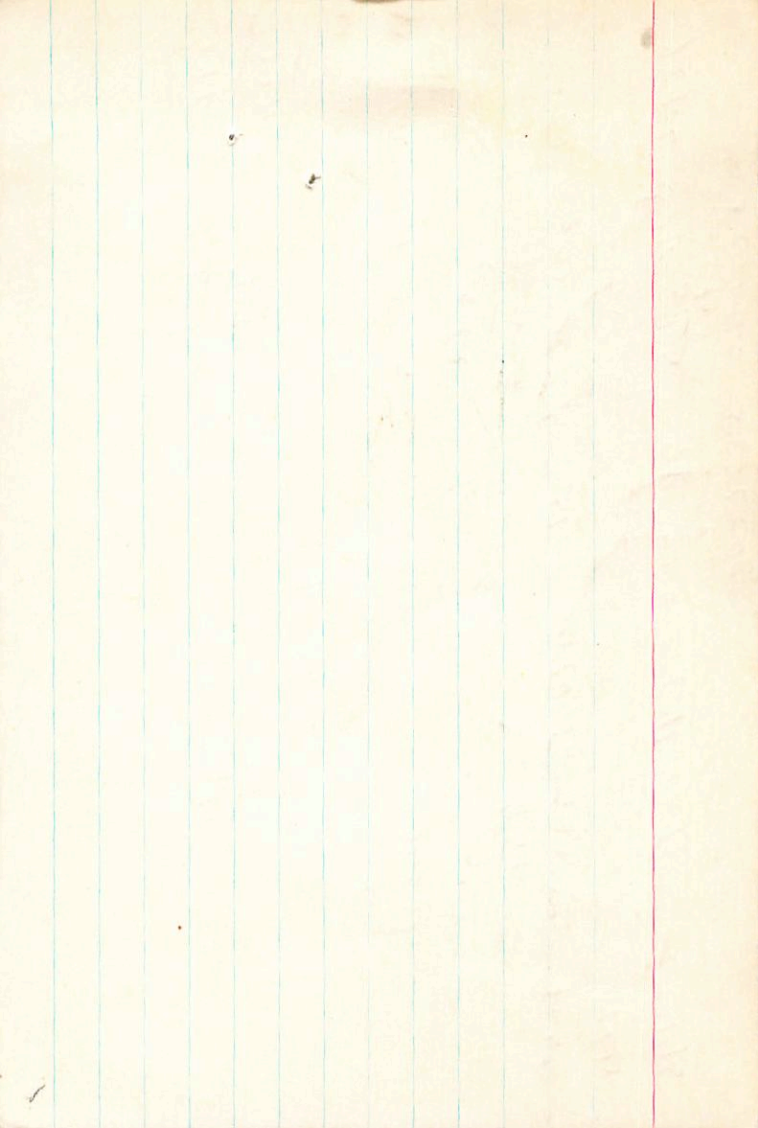
69.60

43.537  
43.494  
+10  
504

42.35

1955.92

$$\frac{-14}{43.96} = 12.47$$







112

8

11

12

13

7.2

-45.100

-31.000

-93.000

3.850

59.5 38.5

0.000

1.4

-0.333

0.915

0.229

-368.596

-21.705

-15

2202

-0.329

0.114

-0.937

-16.237

-0.956

10

10.36

0.883

0.388

-0.263

-262.591

-15.468

10

75.10

20 35.1  
30 71.7  
7 11.7  
-0.25 174 869 2.882  
1.25 974 1.31

+9.1 18.6  
+9.15 18.7  
130  
+R 2744

44.36

ON  $\frac{207}{23}$  413

5.00 +0.01 AP  
-0.287 -19.52 ✓

-0.24 -104 6-6  
-0.23 -0.88 ✓

AB  $\frac{200}{21}$  976

-0.277  
-0.24 -0.93  
-0.20 -0.94

9465 11-2733 0980 ✓  
-0.841 -9.569 0080  
0.254 -1.00

AM 204 2  
LC 1 2  
 $\rho = 0.92$

6.58 73, 410  
with 6 fresh boxes  
-2-93  
-1.6-93  
propylene

866000  
-15

2.48 848 4.64 ✓

79 1975  
3.07  
-16  
3.00

Boquer degree  
10-2-010

11.3

245

22

952-308 - 207 707 - 824 - 100 + 4.3 070 - 3.0 - 332.1

022 - 067 007 - 021 204 - 254 - 3.0 + 0.9 = 2.8 012

+17.9 - 24.5 - 30.7

+14.5 - 21.8 - 25.1 015

-24.6 - 2.1 - 20.7

+11.1 - 12.0 - 18.6 02

-23.2 - 1.7 - 16.0

Asp 410 (S) *grubbe*

2746 7 11.7 -45 06

56022

4.88-02 -04 488- +438 44

~~Ch 162241~~

2447 64

-030 168 997 2893 S

+30  
+10

163 997 7915

326

1323

547

126

032

2947

064

±5.8

15 29

-0027-099 60+

-00282 -0966  
+15

40

-0267<sup>43</sup>

-022-093

410

159 997

398

15

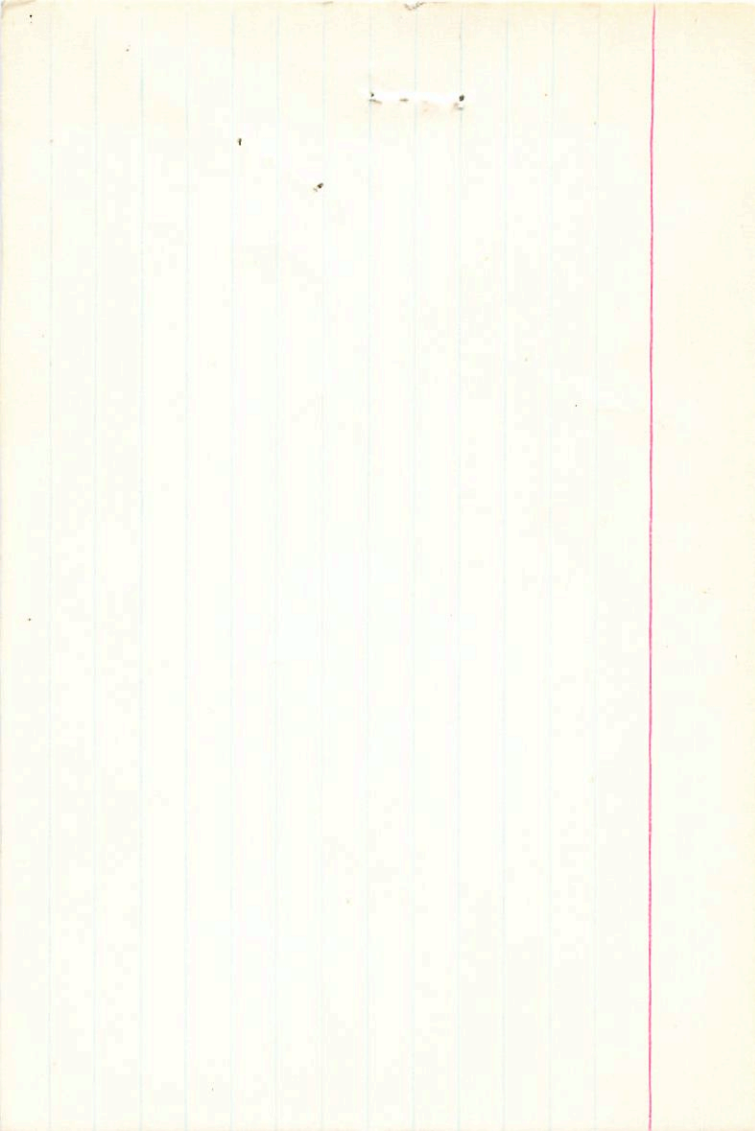
g = -013

n = 015

-016 076

.32

1115





*[Faint, illegible handwritten text, possibly bleed-through from the reverse side of the page.]*

2746.000\*

7.000\*

11.700\*

-45.000\*

-6.000\*

-0.022\*

-0.095\*

4.000\*

63.096

4.300

-0.377

0.229

-18 -22.823

-0.017

-0.937

-5 -5.114

-0.266

-0.264

-15 -17.944

ST.FF 3.55  
51.3