

155092 17 06.4 +28 18 7.0 123 +3.76

23135

9891

²⁰N30

²⁰-126

-0013

-0017 ±5.6 -126 ±4.46c → N30

+17
-8
4.000
4.12

155078 17 7.0 -10 28 F5D

HR6375
GC23145
-10
+40
100390 -1135
100380
100370 +4
100360
5.45 +0.465 -0.005 ① 540

1057-712

56 (-3.2)

215 +14
435 83
+97
1305 .160 .496 2.659 ③ 3.4152
311

22.4
2.90 -3.2 -8.4 -16.4
-209 -259 -508

265

6375.000*

17.000*

7.000*

-10.000*

-23.000*

3.057*

-3.112*

2.650*

93.884

-3.200

-3.205

-3.938

-3.959

-3.263

3.185

-3.498

-3.494

3.292

-17.661

286

40

40

5

155078 17 07.0 -10 28 5.6 dF5 -3.38

23145

9894

+0035³⁴ -121³⁴ N30
+0043±4.4 -106 ±44.66 → N30

✓ 626 154 1084 2592

6378

AD510374 17 02.5 -15 40

0:90

155123
23158

(22)

0321 P 24000

-28

9900

+035 +090 GC

+00 24 92 +091 52 N30

+035 +091 N30

+00 26 50 8 +093 50 9 60 2430

+038 +094 FK3

475

+034 +082

19

-974 -227 -270 963 +036 +092 -0.9 -025 -0.3 ✓
✓

035 -024 -008 006 137 -152 -0.5 -0.2 +0.8 032-1

+4 -4 +5

$\boxed{-2 + 7 - 1}$

03

+4.4 -4.3 +5.3

$\boxed{-0.9 + 7.0 - 0.6}$

02

+6.6 -7.8 +8.1

$\boxed{-2.5 + 13.8 - 0.4}$

-247-157-85

154903 17 08.2 -67 08 NOM -12 -8.456

F0998

5.88 +1.06 (2.13)

66 23174

6.8 } 26
9.2 }

-0271 -087
-0305 ± 7.1 -045 ± 5.1

10.231 1897.6 0318 9.73 18935

1.548
11.82
-0300 -091 5.37
-0282 -086 4.36

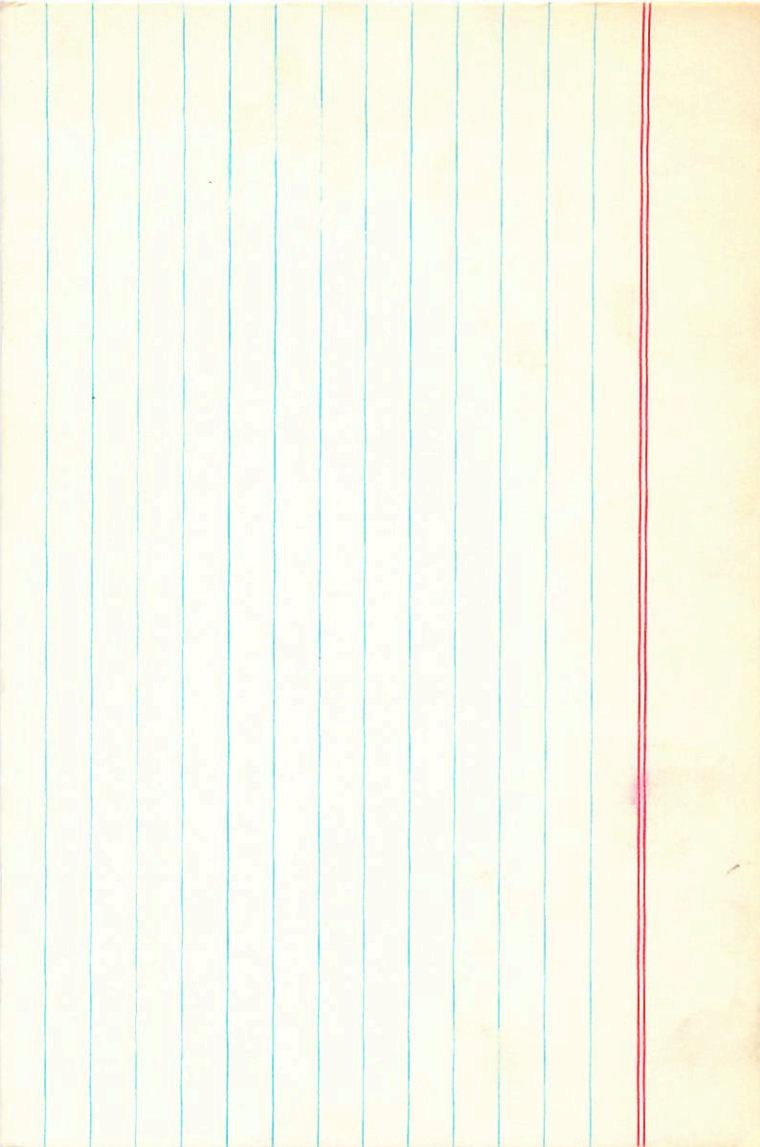
19476 12.47 1424.09

37045
33707
10.807
8.8
-38
9.

10.515
-038
492

10.16
+10
10.06

628
229
8



63 Hen

155514 17 09.0 +24 18 6.2 A3 -2.28

23191

9913 58.833 1506.1 +24 17 50.81 1899.5

10000
10000
10000

044
977
1021

22.44

59.850
+ 853

50.27 1939.3 /

-21
50.06

278

50.12 1928.44

58.863

567
860

47.85

49.85
49.94
49.97

474
+26
+5.3

341

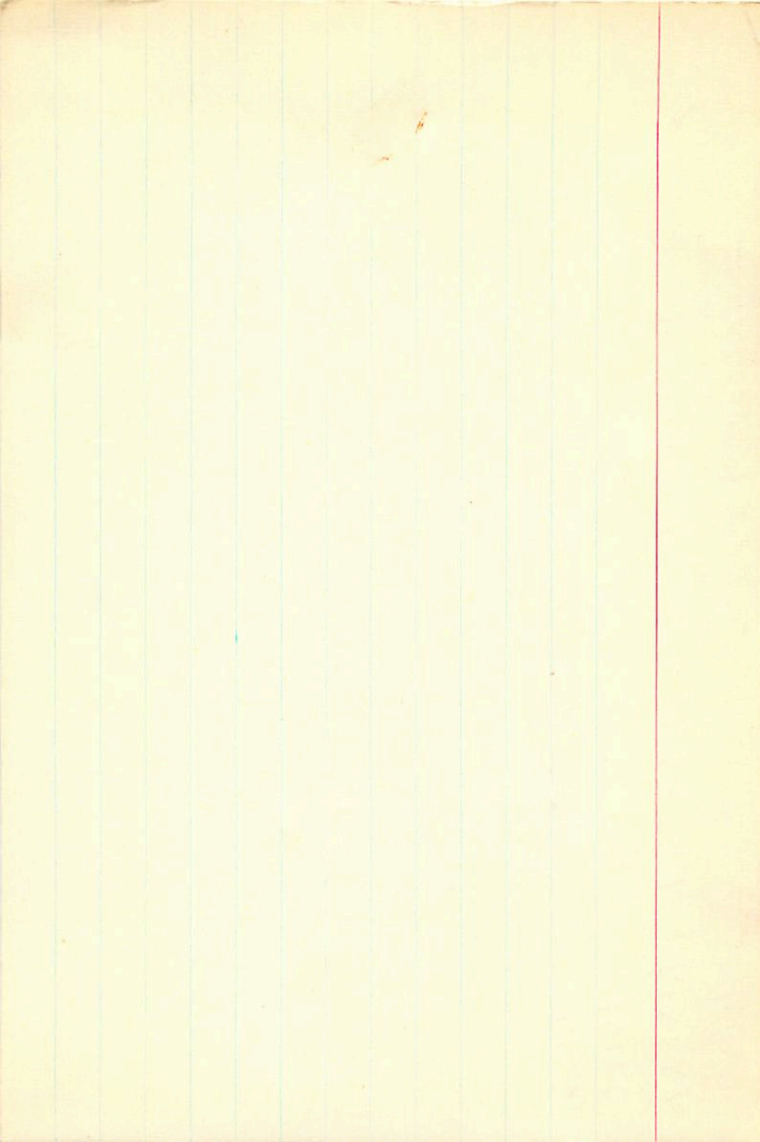
-0.07

+0064 +1016
-0313 +0097
+0420 +0344

+9.1
+1.5
+4.3

1078 +28.13
0384 +28.13
0764 +5.5-1.2

-123 794 -545
578 525 607
-806 269 527



976K
2154
+ 54.186w/2

1467
15922
09.2

254
1340
10098
085-110
1009C
083-106

7.18
1340
10064

3184
754 32

1467
15922
09.2
10098
085-110
1009C
083-106

976K
2154
+ 54.186w/2

1467
15922
09.2

254
1340
10098
085-110
1009C
083-106

7.18
1340
10064

3184
754 32

1467
15922
09.2
10098
085-110
1009C
083-106

976K
2154
+ 54.186w/2

1467
15922
09.2

254
1340
10098
085-110
1009C
083-106

Handwritten notes on lined paper, including calculations and lists of numbers. Some numbers are circled or boxed. The text is organized into several columns and rows, with some sections appearing to be repeated or mirrored.

R.A. : 17.150
DEC. : 54.550
R.A. : 0.000
DEC. : 0.000
TANCE : 0.000
DULUS : 10
VEL. : 0.000

1 (U) : -0.127
2 (U) : 0.986
3 (U) : -0.108
dU : 0.000
U : 0.000

1 (V) : 0.580
2 (V) : 0.163
3 (V) : 0.798
dV : 0.000
V : 0.000

(W) : -0.805
(M) : -0.039
(M) : 0.593
dW : 0.000
M : 0.000

41

41

155500

17 09.3

+07 57

6.4

No III

+1.8 DD

-5.76

23199

9917

+0024^{v7}

+014^{u3}

N30

9^m1.5

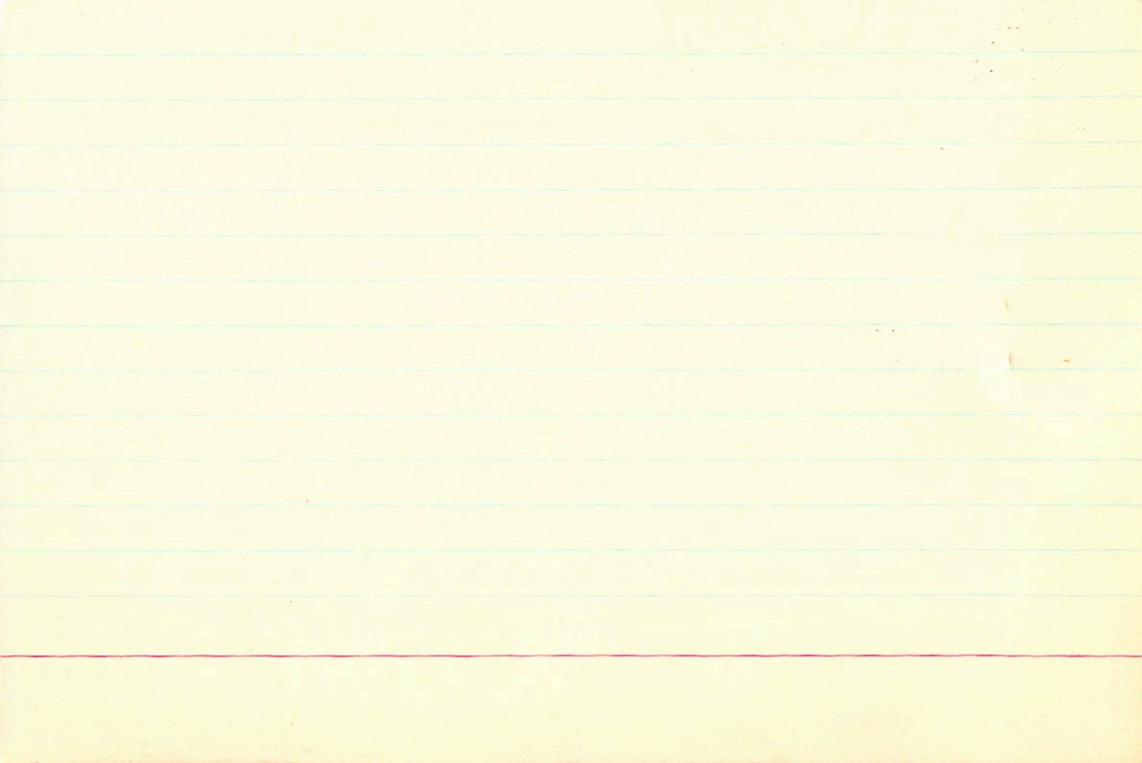
+0018±4.2

+009±3.5

βC

→

PA30



6373

$100 \text{ y} - 0.54$
017-054

1 PM

-64 -18 -54

154472

17 10.1 -74 29

AVB = 8 = 3 416V
-65 = 73 2494C
-2416 2496
-2180 2496

FD544 - 3 163 1010 2512

163 1011
229

223219

6.170 1898.1
234
6.404

52.214
13.625 931
5.83

lib 60

6.218
-141

23.89 52.40 12.2
-48.5
-5.6
51.65

6.24 -01 (1.49)

0066
-0045.4 7.1
-0069
0057
-0057
-061
-062 = 8.0
-060 33.34
-057 322
-061 30.12

0057
0048 -0585

41.21 36.33 1522.06
55.12
36.19 35.88

0041-058

33.20
+0.05
33.15

5.976 34.29 90.988
-50
926 3431 -0500 68

900 200 1550 5
-0.1580 1075
-9874 -1075

-00675 -0596

-00540 -0567

-0216
-025.5 -0516
78973

72
-1180 2496
-2416 2496
-65 = 73 2494C

17.200
-74.500
-78.500
-58.000
4.950
98
-8.000

-0.116
-0.707
-0.698
205.852
25.699

0.576
0.525
-0.627
-201.497
-14.674

-0.809
0.474
-0.346
-49.922
-2.110

42

42



1.00 .0000
1.00 .0000
1.00 .0000

155646

17 10.3 + 00 25 15 + 5-8.00

5-623228

6.66 + 0.50 + 160 3 24" + 54.40(4)
6.5 + 57.65(3)

W9924

+03654

56 45
+016 -082 60

HR6354

280- 910
+ 120- 5910

-69 -5 -6 .010
-75 -12 -11 .008

+0011 ± 6.0 -192.34.7
+0006
-076

-977 -216 0 1 +016 -052 +55.0 0 0 -389

016 0 -003 0 076 -044 +55.0 -136 -57

20.959 18979 +0 24 40.11 18858

-5 -55 -43 009
-21 -6 -7

-0387
1902

44.55

20.913

41.57 19341

424

4147

37.3

41.64 1936.26

20.924

41.63 1036

924
1022

41.55 35.2

3.00 39.4

APR 1964

155937

17

11.7

+16

25

8.4

df 5

-130.6

+160300

9932

+100000

43.082

-0.21

0.61

+10026 -050

+10027 -116

+16318

[642-044]

9512 6360

3095 -7716

TR 6-7 242

value 5.5

+10005 ±5.4

+10025 -056 ±5.6

+10027 -052

-0.46

+16 24

2708

1506.2

226

2936

27.72

1940.43

17.2

16.4

14.4

14.6

13

171 5.87

327 268

+028 ±5 -050 ±5

-0.27

-0.51

2708

1506.2

226

2936

27.72

1940.43

17.2

16.4

14.4

14.6

13

580.42

154

0.10

4.47

11.66

GL
New
↓

+0.022 -0.49

43

RAD. VEL. : -13.000
 MODULUS : 83
 DISTANCE : 4.000
 PM. DEC. : -44.000
 PM. R.A. : 44.000
 DEC. : 16.400
 R.A. : 17.300

U : -2.180
 UB : -171.030
 p3 (U) : -0.220
 p2 (U) : 0.700
 p1 (U) : -0.110

U : -8.180
 UB : -13.900
 p3 (V) : 0.230
 p2 (V) : 0.910
 p1 (V) : 0.270

W : -32.200
 WM : -335.220
 p3 (W) : 0.480
 p2 (W) : 0.330
 p1 (W) : -0.800

R.A. : 17.200
DEC. : 16.400
PM. R.A. : 44.000
PM. DEC. : -44.000
DISTANCE : 4.600
MODULUS : 83
RAD. VEL. : -13.000

q1 (U) : -0.116
q2 (U) : 0.709
q3 (U) : -0.696
dU : -171.029
U : -5.180

q1 (V) : 0.576
q2 (V) : 0.619
q3 (V) : 0.535
dV : -13.905
V : -8.105

q1 (W) : -0.809
q2 (W) : 0.339
q3 (W) : 0.480
dW : -232.557
W : -25.580

UB

$+690900$
 -0013 ± 7.5
 -155 ± 13.0
 $+0016$
 $17 \quad 12.8$
 $+69$
 $22 \quad 8.3$
 $264 - 5486$
 JW

23290
 9947
 49.296
 19047
 $+69$
 21
 47.41
 19082
 059
 $\hline 358$
 7.55
 $\hline 54.96$

49.263
 37
 $\hline 396$
 816
 $\hline 408$
 330

$+10 -132GAZ$
 49.37
 50
 $\hline 420$
 49.43
 194502
 -19
 $\hline 1090$
 7572
 49.24
 37.7
 51.9
 1980.4
 -24
 51.66
 50.45
 $\hline 15.21$
 28.5
 -4.51



156389

17

13.2

+56 11

7.9 dF4 -2.98

-0007k 5.7
-0017

+005+4.5
+013

23300

9954

10.886

14019

+56 11

21.67 1893.1

-0012 +010
-0022 +018

AD510425
Δms20

034

.920

-0017 +013

-28

21.39

42.96

27.942

10.902

24

926

6

932

1721

860

-060

10.762

27

789

34.6

64.2 - 19 25.7
42.65
21.55

22.05

21.96

22.28 1947.39

-35

21.93

21.94

+1.55

309

36.5

43.4

990.

$$\begin{array}{r} -113 \quad +990 \quad -084 \\ +575 \quad +135 \quad +806 \\ -810 \quad -043 \quad +584 \end{array} \left| \begin{array}{r} +0075 \quad +0610 \\ -0384 \quad +0083 \\ +0541 \quad -0026 \end{array} \right| \begin{array}{r} +0685 \quad +5.4 \quad +0.2 \\ -0301 \quad 2.3 \quad -2.3 \\ +0515 \quad +4.1 \quad -1.7 \end{array}$$

$$\begin{array}{r} +5.4 \\ -4.4 \\ +2.4 \end{array}$$

6418

67π Here

23302

9955

17 13.3 14

990

-0250 +0029

?

0

-0257 +0029

-0306

36° 52'

+36.9

-25.72

-153.43

+0157 +0125

-0836 +0054

+1185 +0021

3.36 K5

-25.5 (17)

0.907 -0.404

0.390 0.720

0.152 0.764

-0.108

+0.573

0.812

+0157

-0836

+1185

+1577 +0125

-0836 +0054

+1185 +0021

+0282 +135 +104

-0762 -220 -15.8

+1206 +15.5 -19.6

109M.

→

TJ Hen
156293

23302
9955

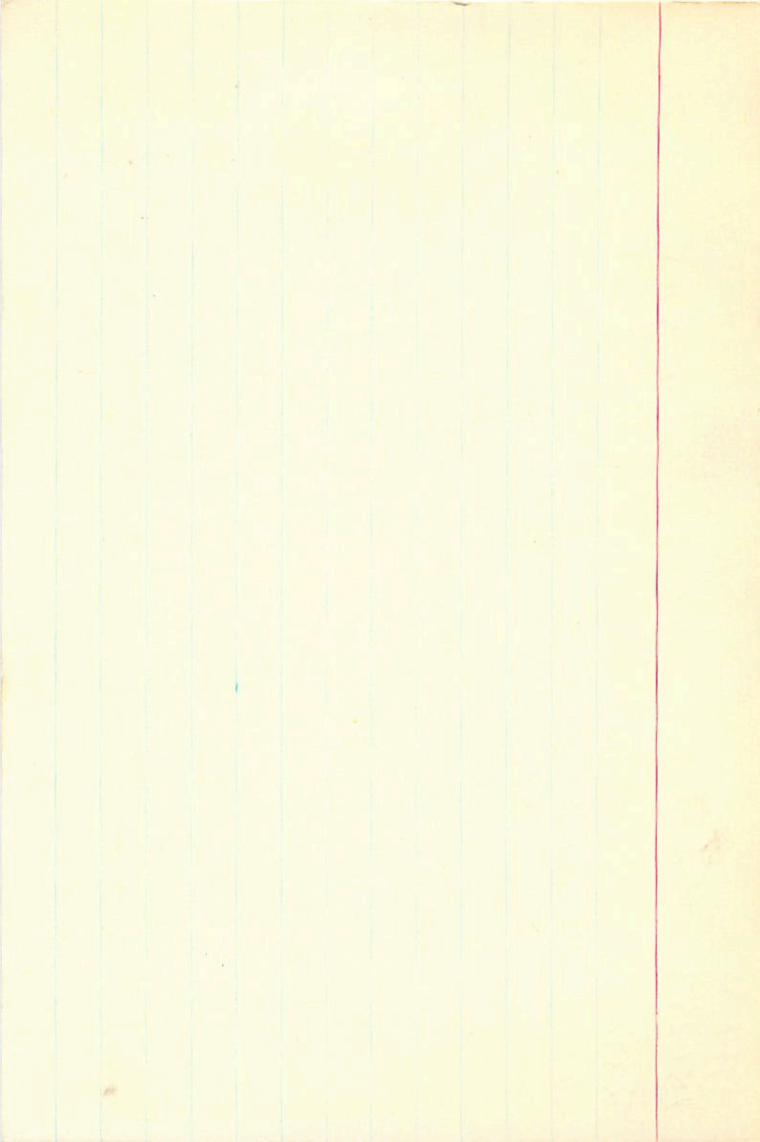
17 13.3 +36 52-

64 +004 57N30

-0026 ± 1.0 +004 ± 1.66 -9030

+1.44 R3II

3.4 gms -25.7g



-0014#8.3
-0007

156115 17 13.4 -15 10 6.8 gmo -8.2 J

23806

9956 24.319 1904.2 -15 10 10.16 1898.6
064
1383

58.681
25.662
24.320
303
304 304
019

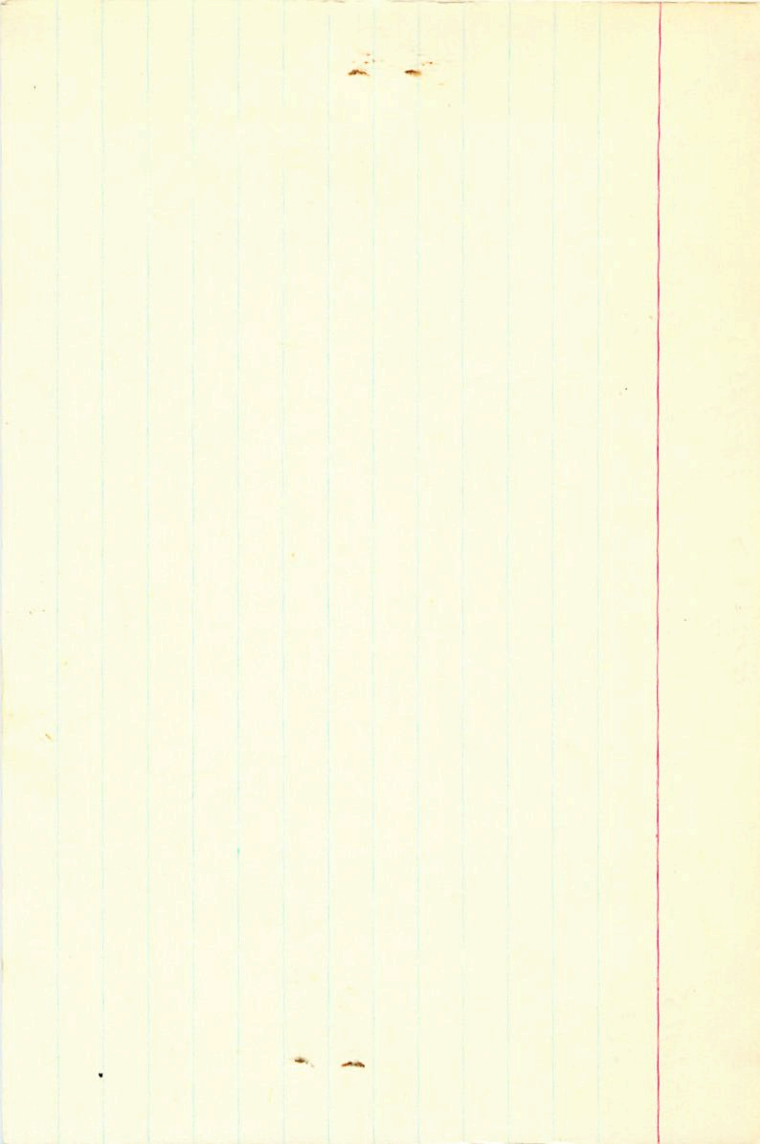
27.9

2240 1930.55
44.22
11.62
1.53
10.09
1.5
8.94

413
32.1
33.5

24.342 -019
305

9.73 1933.58
-25
9.98
9.94
+ .25



-0020 ± 6.4 +017 ± 3.7
-0030 +009

156294 17 13.6 +23 48 6.1 g 112 -41.98

23309

9957

36.747 1998.4 +23 47 49.52 1903.2

103
850

-0025 +0013
-0026 +018

-1.80
48.72

4388

36.735
739

02

32.7

48.82 1933.7
4
48.86

36.759
4
763

751
-99

-036 +018

49.30 1928.44
-24
49.06
48.96
+.24

6214
31.1
27.9

44

156284.000*

17.000*

13.600*

23.000*

48.000*

-0.036*

0.018*

6.000*

158.489

-41.960

0.086

-0.599

38.809

-0.051

0.613

-33.860

0.162

0.514

4.151

44