

TT Dna
182564

26735
11826

17371
1455

19 20.4 +65 37 4.6 A2 -28.78

A2112

+0010³¹ +044³⁴ N30

+0015^{51.2} +044^{51.0} 0.6 → N30

+0010 7042 (H)

+0018 7042

547 5268
8406 +941

50. 200/1000

X Sep 19 20.4 -40 43 0 C

HR7348 3.96 -0.10 0.5111

W11825

+030 -12060

+036 -1134

+030 -1187

+032 -117

-934 343 -652 758 +032-117 0 076 0 -422
030 0 011 0 142 052 0 0 0 0
01

+14.2 +5.2 -42.2

+7.1 +2.6 -21.1 02

-7.0 -13.6 -16.3

+9.5 +3.5 -29.0 015

-9.6 -18.8 -22.3

182040

19 20.4 -10 48

+0004 ±48 +006 ±35

24375

12.4

1.11 10¹⁷

14.38

→ +0014
~~+0014~~ -011 ¹³

-108

24346

-0013

-0098
~~0015~~
103

202

(346)

18

-11

8

24363

-0014 -04

1.124

(41.19)

-00126

23394

(69.51)

1.573

-4
5.57

-0196
-019-010

R.A. : 19.350
DEC. : -10.800
PM. R.A. : -18.000
PM. DEC. : -11.000
DISTANCE : 7.000
MODULUS : 251
RAD. VEL. : -46.000

q1 (U) : 0.365
q2 (U) : 0.326
q3 (U) : -0.872
dU : -47.576
U : 28.168

q1 (V) : 0.306
q2 (V) : 0.843
q3 (V) : 0.443
dV : -69.609
V : -37.864

q1 (W) : -0.879
q2 (W) : 0.429
q3 (W) : -0.208
dW : 51.320
W : 22.441

31

105057 274 1490 184
192040 2844
26733 636
11825 R R 10.7
6.68 + 30
7.01 + 1.09 + 0.695 + 1.520
6.58 + 0.315 1.520
6.26 22.845
24377 304 24.365
-20 351
351
346
51267
33138
24392
105057 274 1490 184
192040 2844
26733 636
11825 R R 10.7
6.68 + 30
7.01 + 1.09 + 0.695 + 1.520
6.58 + 0.315 1.520
6.26 22.845
24377 304 24.365
-20 351
351
346
51267
33138
24392
+0004 ± 4.4 +0002 ± 8.8
-0000
19 20.4 -10 48 7.0 R2 -46.66
7.0 R2 -46.66
26733 136 1.34
11825 1948.4 -10 48 1.68 1940.7
6.68 + 30
7.01 + 1.09 + 0.695 + 1.520
6.58 + 0.315 1.520
6.26 22.845
24377 304 24.365
-20 351
351
346
51267
33138
24392
+0004 +014 → 136 1.34
1948.4 -10 48 1.68 1940.7
361322 -574 +0103+023 -1.16 +0316 +40.6
309544 439 +0088+050 2.19 +0648 -20.4
-880 424 -205 -0250+005 53.28 1934.66 +10035 +7.9.6
39.5 49.40 758
3.88 25 85 758
1.41 25 35 351
4 25 35 351
2.45 196
+ 2.02 +.23
2.16 10.42
305 943
216 1941.19
363 225 1.920 / 189 1.63
40.8

35

659
336
589
253
2

34
29

1111 = 11 00-2 0100 1000 1000 1000 1000 1000 1000

1000
1000
1000

1000
1000

1000

1000

1000

1000 = 1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

-100 5057

+0004 541
-0002
+0006 536

152040

19 20.4 -10 48

26723

200 24.375 1912.4 1.11 1510.7

11825

+0002 +010 360

-275
7.25

-014510
2012 5115

F-3 +00

1.520

+0001 406
1 15 415

53.28

192466

+0005 +010

22.545

+00025 +0075

10.6
88

20

25.015

+0035 +0075

1.41

+004 +006

2.97

20

35.88

354

3.45

2.02

1.83
-98
37.92

1.90 1923.60

51.267

10.42

1941.69

24877

-27

33.131

8.43

24877

-27

24.396

1.56

35

21

24.396

1.12

35

21

24.396

1.12

$+1000$
 $+1000$
 $+105$
 $+108$
 19

20.4
 $+9$
 49

1103
 -19.56

0052
 008
 $+107$

$+1000$
 75006
 $+69$
 8882

$+105$
 $+094.67$
 $+108$

25.453
 1900.5

-030
 423

$+1000$
 $+101$

51.70
 495
 46.75
 5201
 $+31$
 51.32
 450

19.35
 $+9.8$
 $+8$
 $+107$
 2.55
 -1.5

25.425
 -4
 424
 $+101$

5421
 -36
 5
 88

18973
 1939.71

19.35
 $+9.8$
 $+8$
 $+107$
 2.55
 -1.5

362
 309
 -880

615
 630
 474

-701
 712
 -038

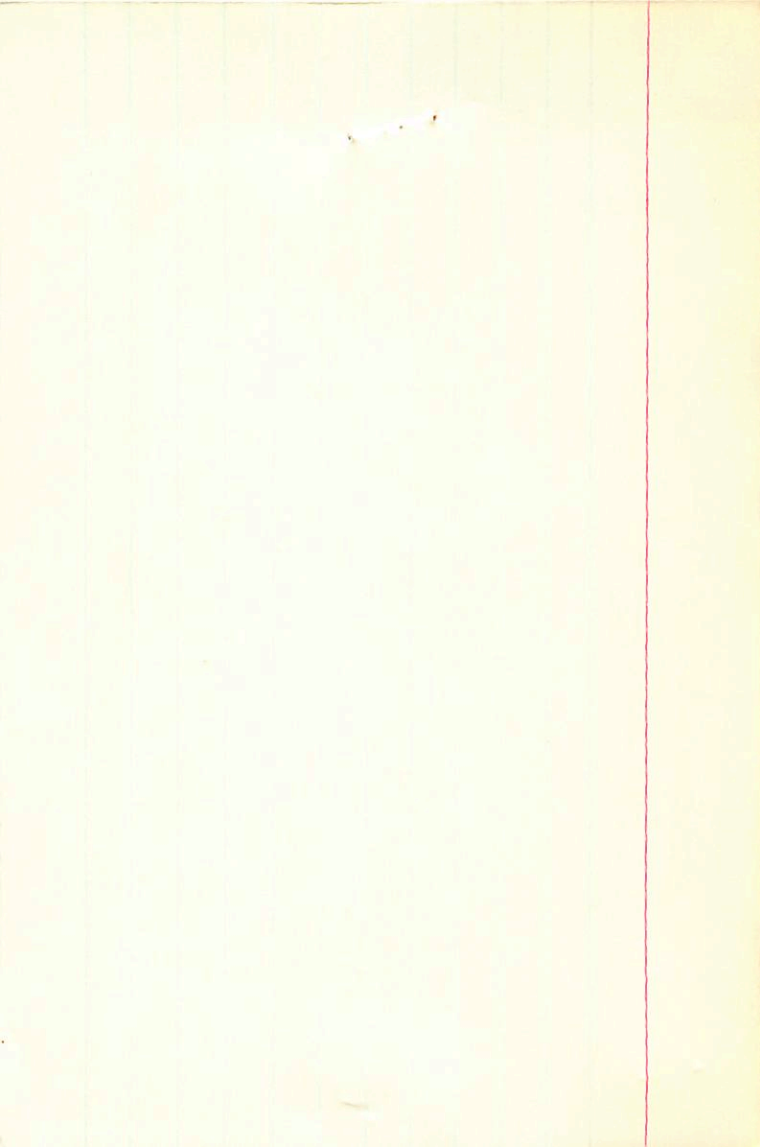
$+10103$
 $+3031$
 $+0888$
 $+3106$
 -0250
 $+2337$

$+3134$
 $+140$
 $+13.7$

$+3194$
 $+14.2$
 -13.8

$+2087$
 $+9.3$
 $+0.7$

$+27.7$
 $+0.4$
 $+10.0$



182101

19 20.4 + 9 49 265

HR7354

6.34 + 45 - 5 C

6626786

1320 .125 .425 ② SAC 2.646

[M] 182

③ Cr +

[M] 361

4468. +27.7 + 0.4 + 10.0 + 100.64 = +138.74
 +313 +319 +209 +104 -19.5

3

R.A. : 19.350
 DEC. : 9.800
 PM. R.A. : 8.000
 PM. DEC. : 107.000
 DISTANCE : 2.950
 MODULUS : 39
 RAD. VEL. : -19.500

q1 (U) : 0.365
 q2 (U) : 0.612
 q3 (U) : -0.702
 dU : 323.984
 U : 26.288

q1 (V) : 0.306
 q2 (V) : 0.633
 q3 (V) : 0.711
 dV : 332.384
 V : -0.936

q1 (W) : -0.879
 q2 (W) : 0.475
 q3 (W) : -0.043
 dW : 207.813
 W : 8.932

35

35

2365

19

20.5

457

04

21 0.59

46.68

$$\begin{array}{r} 2902078104 \\ - 2 \\ \hline 2902078102 \end{array}$$

6

36



7365.000*

19.000*

20.500*

57.000*

40.000*

0.016*

0.044*

6.000*

150.489

6.600

0.222

-0.017

11832

182712 19 20.7 +69 49 dK1 -35.96

+690,043

9.3

+020 +212 GAZ

+067 ±1 +223 ±1 GA

+0031

+ 3

+0069

+226

9.48 +945 +535

(16-15)

+222

-934 345-938 345 +020 +212 -35.9 199 -34 346
066 187 024 069-014 8.000 -12 +34 03
-12 +67 -24

7358 19 208 +26 10 Van -2408

518 -12-53 06 II
518 -12-49

-12.2

518 -12-57
503 5.5
115

-0004-007
-0005-007

2.886 44-48

069

22



7358.000*

19.000*

20.000*

26.000*

10.000*

-0.005*

-0.007*

5.900*

151.356

-12.200

-0.035

-0.501

575

0.865

-0.021

0.860

1129

-13.641

0.005

0.093

+13

-0.323

37

66w
107815

19 · 20.7 -24 34 5.8 gKI -2.31

-0016 ± 2.8 -019 ± 2.8
-0012 -020

16587
7434

5.67 +1.16

44.939 1901.5 -24 33 47.53 1900 ↓

078
45.017

+0.95
46.58

26.812
18.105

28.27
19.31

1934.15

44.917
53
970

973

359

47.58
+15

47.32

481

+2
972 - .044

47.43
+35
47.08

-0.74

37.4

44.960
14
974

1940.66

47.80
+24
47.56

37.3

+0089 -148 ± 4 CP

181773

26759

10.83 "

+0071 ± 7.8
+0086

19 21.2

-62

17

F512

-329 ± 1.1

7.59 +46

C(18)

10.578

1407.7

-62

17

1.25

1905.0

$\frac{-300}{.278}$

$\frac{+91}{-25}{-12}$

6.34

54.91

$\frac{10.636}{-.264}$

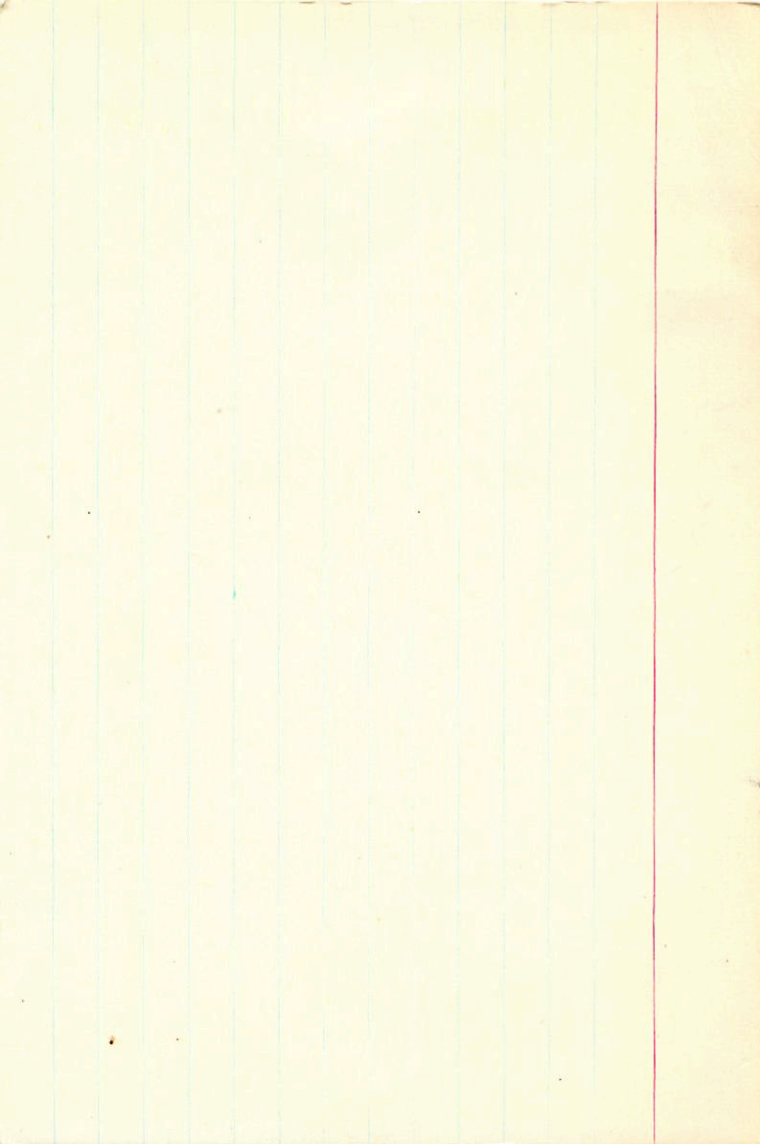
50.19 1945.7

-32

$\frac{1.2}{2}$

Reynolds

13
4
2



2 Sgt
 HR7369 182490
 W11750 26784 19
 11850
 6.03 A2 III

$-0006 = 2.4$ $-014 = 2.1$ Sp.B. P = 7.4
 -0004 -021
 22.1 + ~~16~~ 50 + 12.0 a

-009 -014 66
 -008 -020 17

7.271 1897.4 +16 50 20.24 1891.8 -

$\begin{array}{r} 031 \\ \hline 1302 \\ 7.305 \\ \hline 0 \end{array}$ 572

$\begin{array}{r} 81 \\ \hline 21.05 \\ 79.84 \\ \hline 10 \end{array}$ 1933.9

$\begin{array}{r} 7.271 \\ -4 \\ \hline 267 \\ \hline 286 \\ \hline -016 \end{array}$

38.7

$\begin{array}{r} 19.94 \\ 20.35 \\ -7 \\ \hline 20.28 \\ \hline 20.11 \\ \hline -94 \end{array}$ 1939.66

356
 $\begin{array}{r} 36.3 \\ \hline 44.5 \end{array}$

~~-937 350 289 557 -008 -020 +12.0 -006 +3.5 -090~~
~~-007 -006 -003 -002 -024 -043 +11.4 +4.0 -10.7~~

-0.8 -19.3 -14.5 005
-23.9 -2.7 -3.0

-2.0 -21.5 -19.0 004
-29.0 -5.7 -3.7

0 -17.9 -12.5 006
-21.6 -1.4 -2.9

182635

19 22.3

+36

21 6.4

NIII

-32.98

+0005±3.8 +074±3.3 +0.5 00 40
+0007 +073

26792

11854

18.307

1898.4

+38

21

7.45

1891.9

W350

-026

+00049 +0750

281

-4.30
3.15

+0786 24.50

53.510

8.310
+4

3144

510

30.3

302

1021

+0059

+010 +022

7057

3466

7095

9388

18.28

15
295

0710

0156

2.07 010
49

10.8 19 27.5
54.25

5.08
90

5.98
4

5.96

6.0

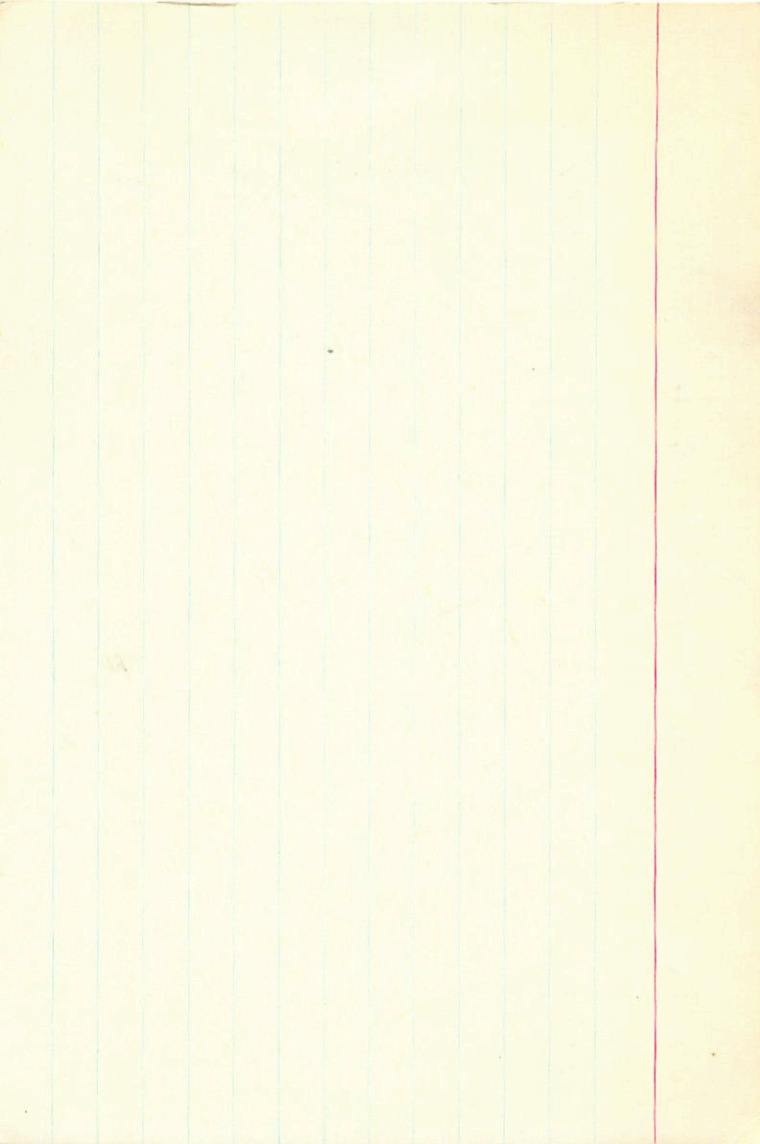
-27
5.73

585
2.70

1929.9

574
28.7

36.8



HR 7382

19

22.4

+43

17

265 - 0.18

W 11855

5.9

+011 - 0.2566

+013 - 0.31

+012 - 0.30

0.919

-536352 696725 1012-038 -0.1-021 0 -10¹⁴

011-02004-0078~~1111~~ 075-026.0 0 0

008

+6.5

110.6 -9.5 -13

-186.04 -13.8

0075

4/9 Sep

182416 19 22.5 -24 04 5.6 9124 +39.5-8

26801

5.42 +1.43 +1.68 10⁶ 4 14 +39.7 254

11854

28.157 1899.9 -24 3 43.43 1898.7

060
217

57.863

30.848

28.217

118.1

11.19

1.6

28.170

-16

154

.166

36.9

169

163

054

-

53.54

10.06

43.48

-0012 +2.3 -007 +2.15
-0015 -002

+36
43.07

38.34

53.60

44.74

154

28

43.28

92

42.39

43.28

1441.09

945

43.17

208

1440.60

43.28

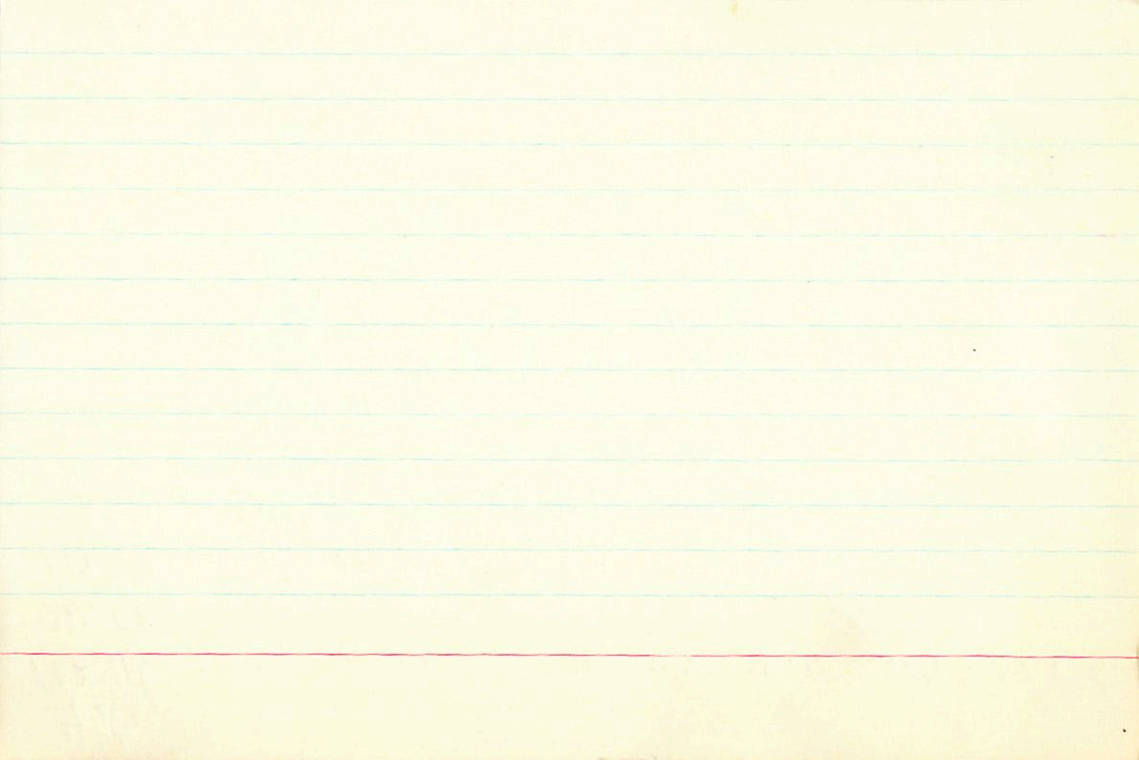
11

1441.09

110.23

36.8

38.1



182477

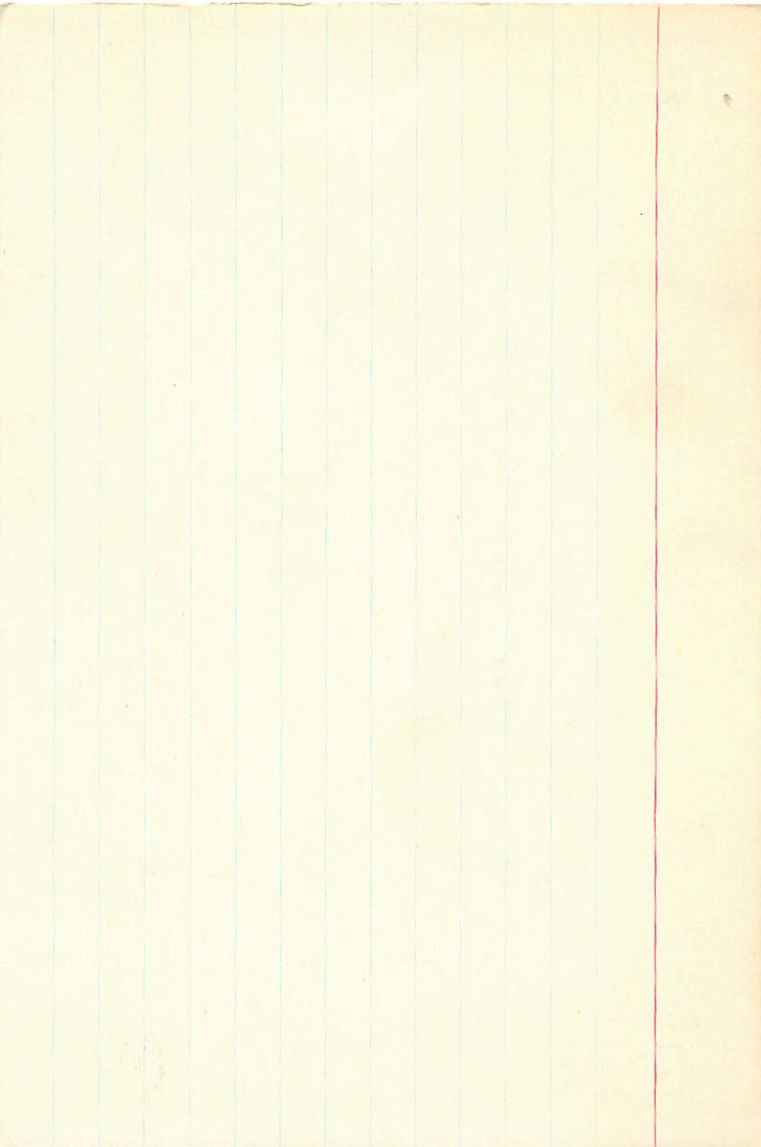
26805

11860

19 22.5 -14 00 5.8 9103 -3426

+0039³² +057³² N30

+0052⁴⁵ +052⁴² 66-9430



5189

182572 19 22.6 +11 50

100.5 ①

101.5 ②

102.5 ③

5.15 + 0.78 + 0.41 0.059 1.15 + 1.23 - 20 - 20

4.50 + 0.22 + 2.22 35 + 415 + 32 + 29 - 16

4.61
3.27
4.25
1.14
3.19



50842
182624

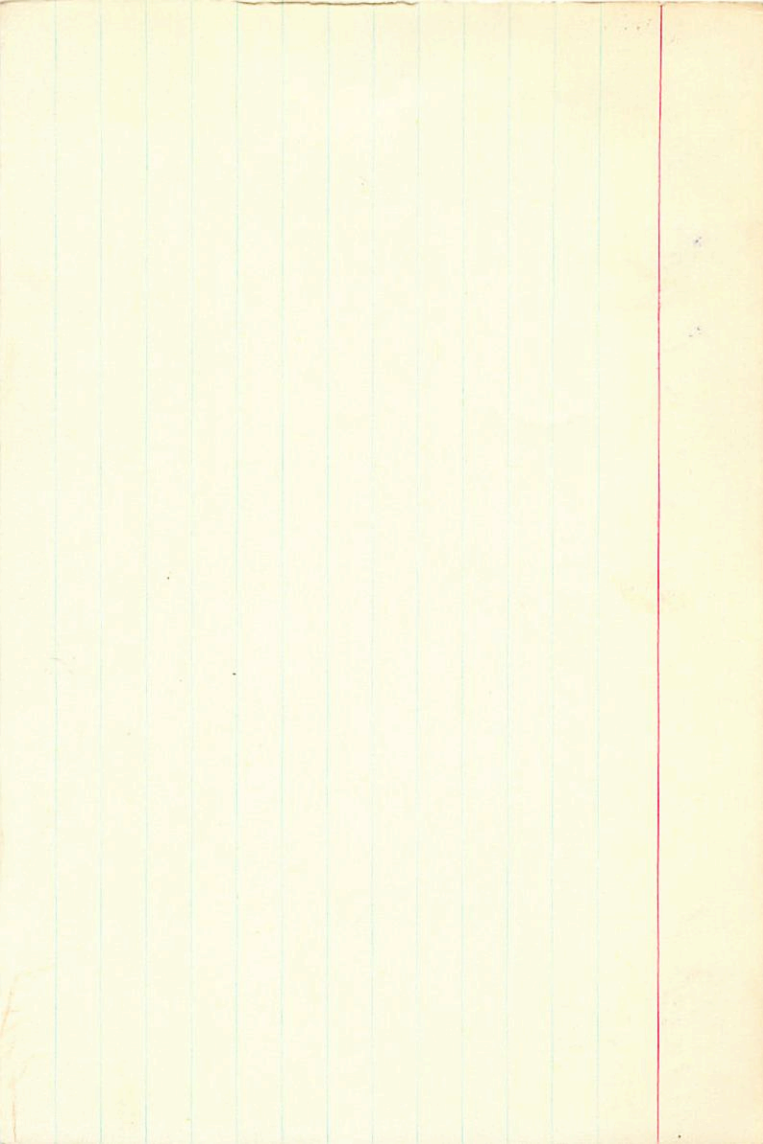
19 23.3 -21 53 5.6 g 123 -20.18

26823

11867

+0027³⁵-0004³³N30

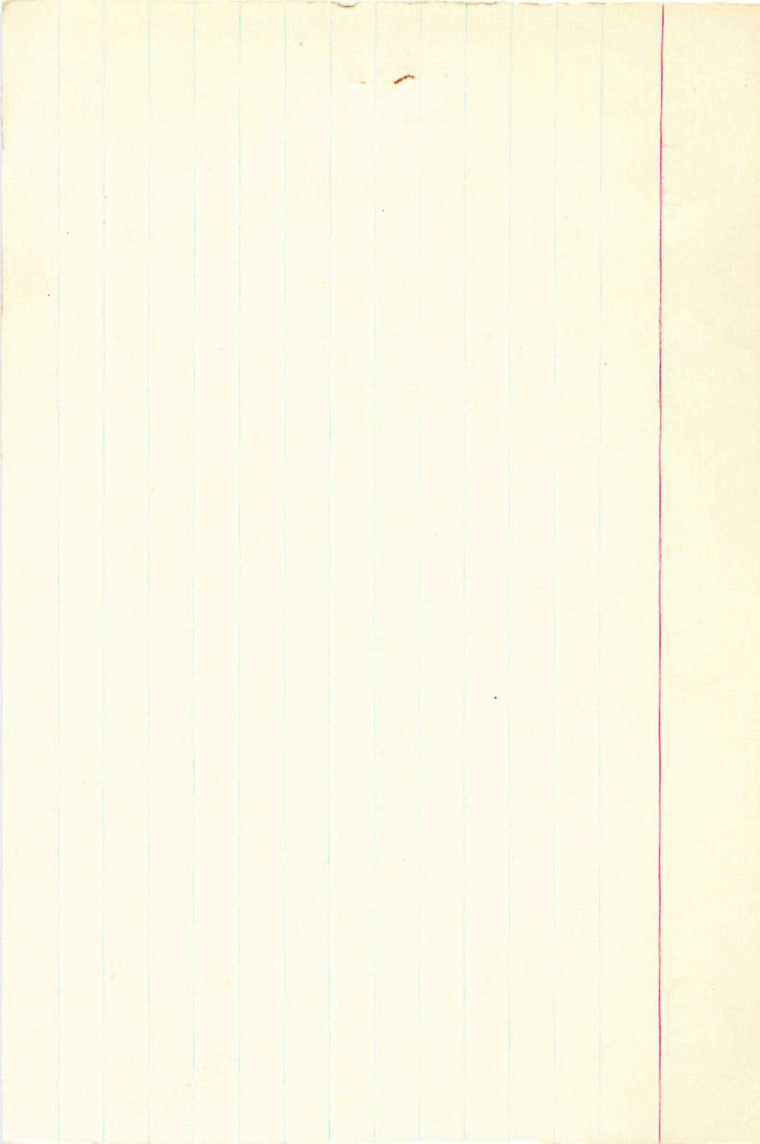
+0026²⁴-0015²⁵Qc → N30



+2603549 19 23.4 +26 14 8.2 g/100 -6388
11871

+006 +025 ✓
-3 -3
603 +022

+007^{±8} +030^{±6} Ref₁
1 +2
+008 +032 ✓



182900

26840

11876

7384

31±6

+0006
+0004

19

24.1

+12

55

5.8

df3 -33.88

-829①

4.619

1903.9

+12

55

18.18

1904.5

-018

1.601

4638
0

65.55

19.89
-24

19.65

2.65

15.50

19.4
+129

4.608
4

612

4.644

67.35

19.86
-41

19.45

17.01 1933.4
+11

+129
+61

17.12

3.48
-338

4.644
-13

631

622

+021

628

33.4

17.71 1941.13

-1

17.70

17.41

453

37.3

+0005 +0588

+0006 +0623

+0099

012 061

+1.91

32.8

1900

182500

HC7389

GC26840

19 241 +12 55

key +17.5
+9
F6 III

5.77 +0.45 +0.035 3592

[m] 223 +5

3.29
[c.] 481 $\frac{120}{125}$

+32 -14.8 +5
+2 +2 +1

0.202 .169 .541 @ SOC 2.659

⑤ 0.2 +

+229.6 -18.8 +4.2

+2.45 (3.30)

2) +3.5
+33.5 64
+00050 +0585 64
+100070 +0628
10101
+0103 +060
-33.8

+00050 +0585 64

+100070 +0628

10101

+0103 +060

-33.8

38

P1 (U) : 0.375
P2 (U) : 0.548
-0.553

RAD. VEL. : -33.888
MODULUS : 49
DISTANCE : 3.458
PM. DEC. : 41.888
PM. R.A. : 12.888
DEC. : 12.288
R.A. : 12.488

R.A.	:	19.400
DEC.	:	12.900
PM. R.A.	:	12.000
PM. DEC.	:	61.000
DISTANCE	:	3.450
MODULUS	:	49
RAD. VEL.	:	-33.800

q1 (U)	:	0.375
q2 (U)	:	0.648
	:	-0.663

182901

19

24.2

+0074515.0 -014±10.6
+0054 +007
+010

+11

45

6.8

F5-43A 3.5

26842

11877

+76 5 15

+0056

+0055 +012
+0056 +0185

-40.8 2

woolly

11,240

10.911

1905.7

+11

44

55.98

1901.5

from

-328
1583

158 857

6.91 299 160 487 1000

68
57.66

10.734
738

1496
749

8824

56.73 1933.5
11
57.84

3999 6420

-9166 765

10.752
8
760

+166

+088 +020

57.20 1939.71

32
36.6

30.9

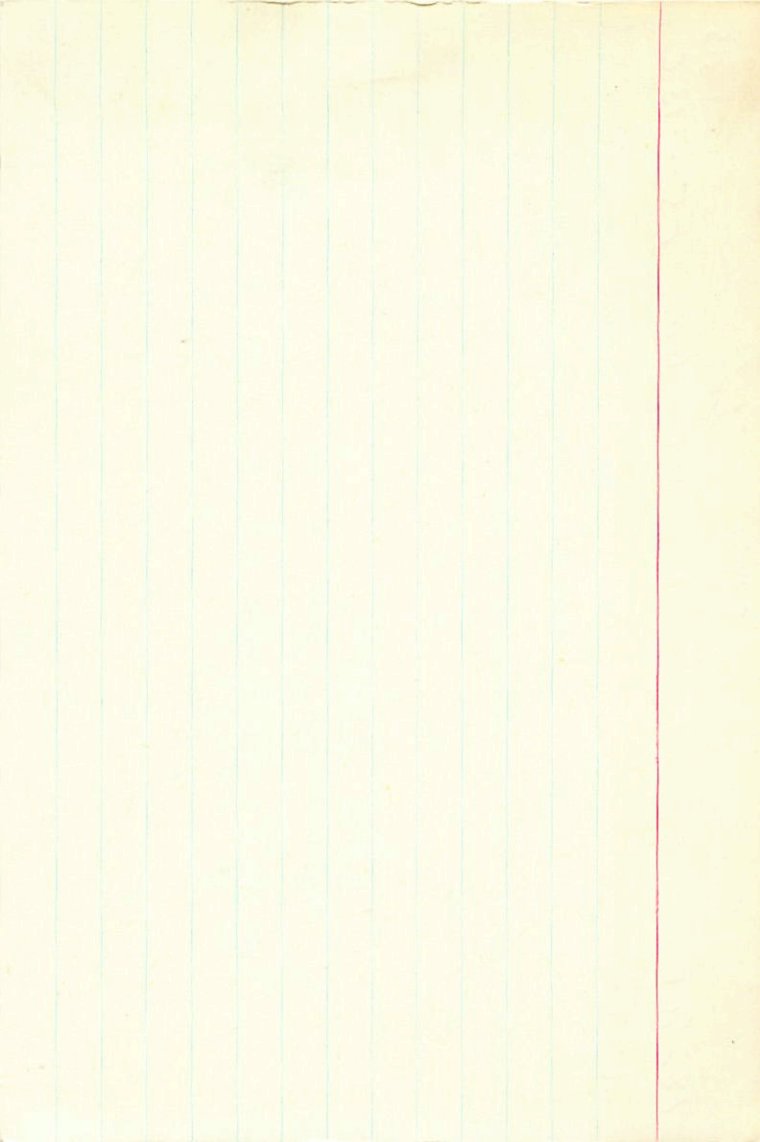
57.22
56.92
+26

35.1

12.874

5743

57.89
+28
57.64



① 219 149 319 219

12/21
12/21
12/21

12/21
12/21
12/21

3147
100
479

10.4
10.1
10.1

1629.7

3.55

408
257

6.34
-470

31665-1599.0 + 2713.11.04

18874

+107 +075

183032
18851
18851

183032

183032

13

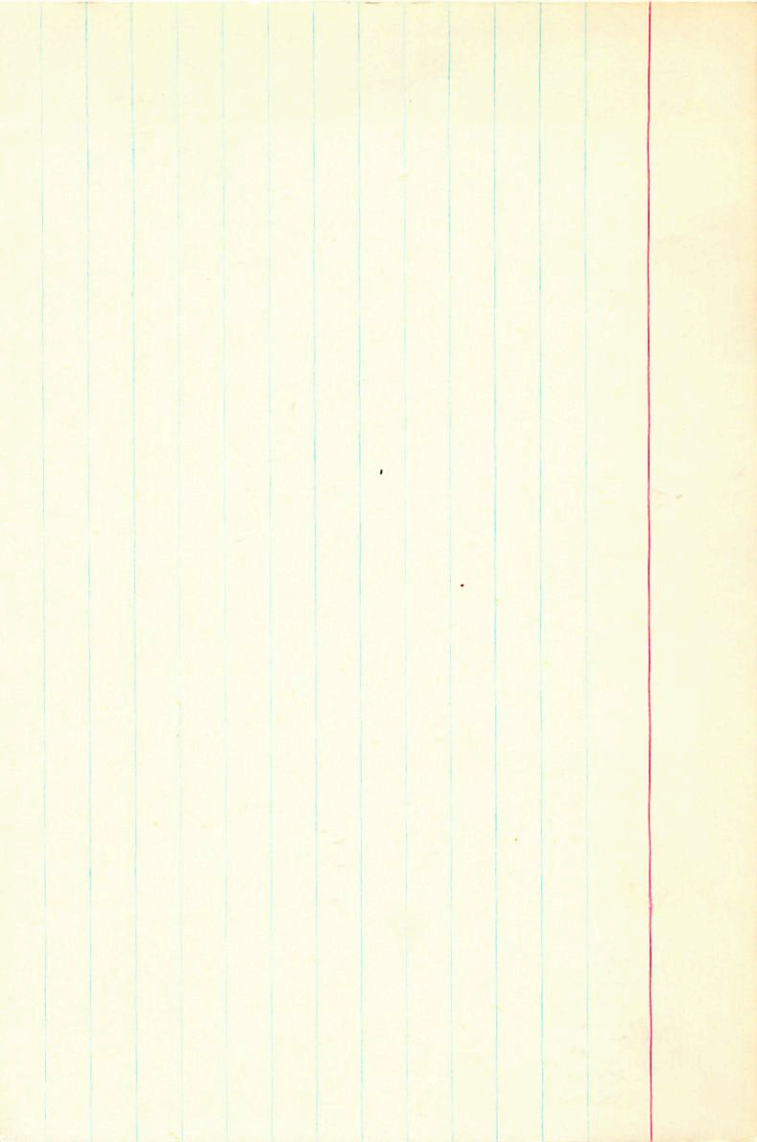
275

+ 27 13

78.859

+0072 + 90
+008075.1 +0757.2

-10.66



184102

26857

11883

19 24.7 +79 30 6.0 A2m -3.18

+0004⁷⁹ -029⁶⁸ N30

+0001# 3.6 -020 ± 3.3
+0001 -026

182926 19 24.8 -18 27 7.3 dF4 +0.18

26859

11884

45.603 1903.3 -18

27 9.76 1898.8

-005

598

18.352

27.270

45.622

600

-595

599

530

45.628

612

10.726

248973

45.624

-24

/ 593

+1.02

874

9.65

58.16

11.47

11.50

9.77

9.45

9.5

10.08

+30.8

9.7

1937.17

33.7

-21

9.74

-1.00

37.0

1938.46

22.30

11.98

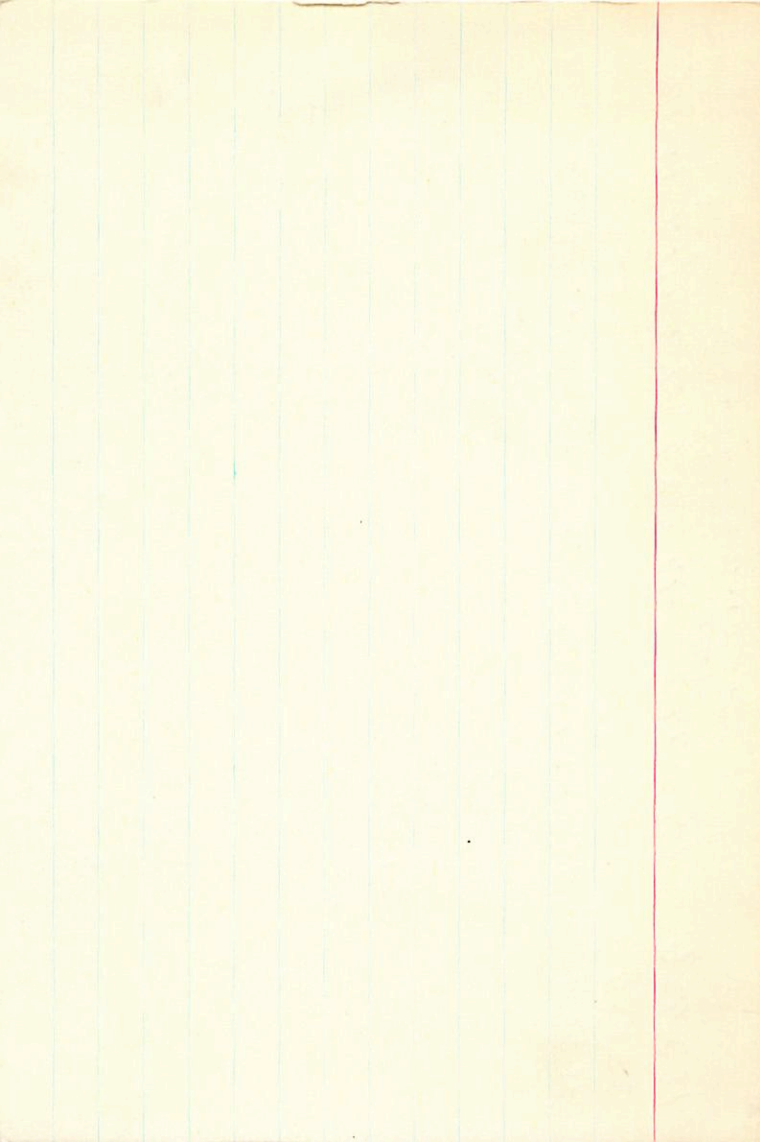
16.32

-17

9.91

1937.53

35.2



+00006 + 2.8 - 0001.53.0
-0000
-0001

182998 19 25.2 -18 28 6.9 gms -32.16

26870

11888 10.793 1900.5 -18 27 42.91 18946

-030
763

43.533

27.265

10.8229

177.1

7705

10.750

16

76

333

764

1001

+05
42.86

43.43 1928.32

59.02

44.41

1.50

42.91

42.8

42.6

3

43.00 1939.35

+30

43.00

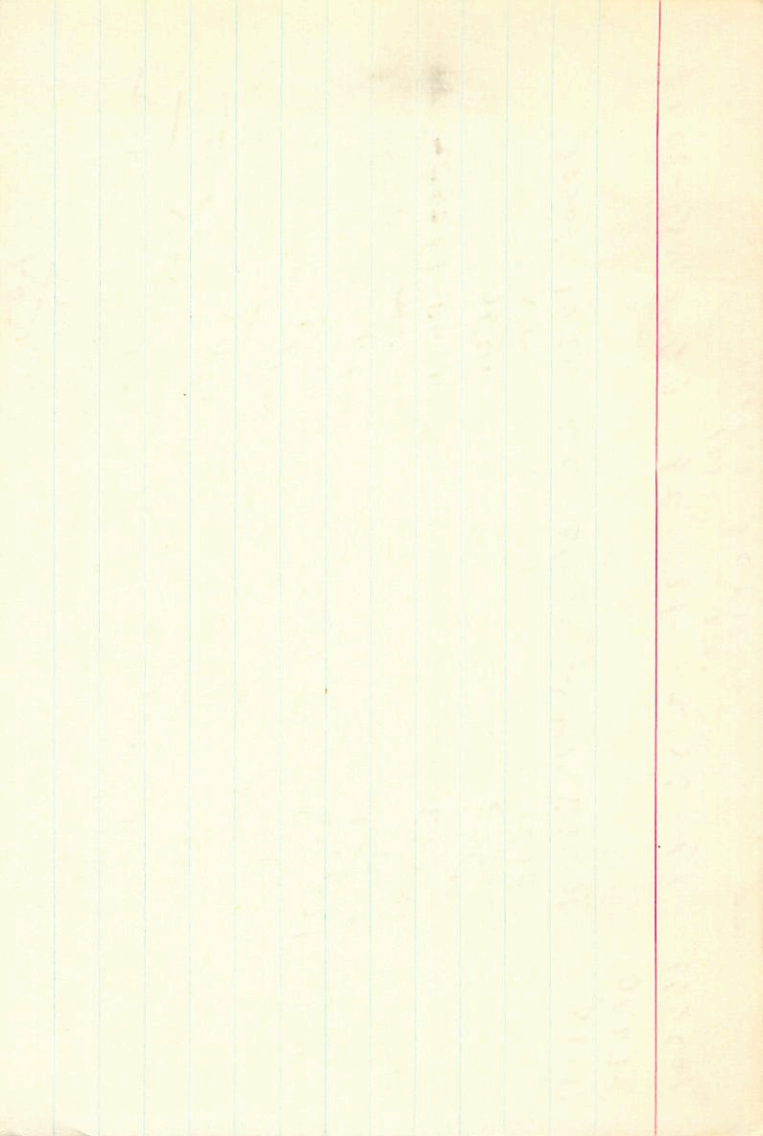
42.82

-04

4767

33.8

34.2



R3

BN Vnd 19 25.8 +24 15

11.4 mod/vis

207 D

-2354 (w1)

-046⁵⁵

-039 ± 8 Peak

-045-

-039 Handing

0030

~~931~~ 366

411 911 -046 -039 -235 -016 -97 -171

-043 -015 -017 -006 -175 -152 -214.1 -78 +199 00085

-22 4/-125

-294 +20 -298
-146 -371 +105

-122 -21 -201

-253 +47 -265 001

220 -8 -125

-106 -344 +95
-298 +9 -311 0008

G 23-1

19 25.9 +13 54

+3.6

+1304024

8.94 +79 +26

+15

+70

+238 +26

2.60

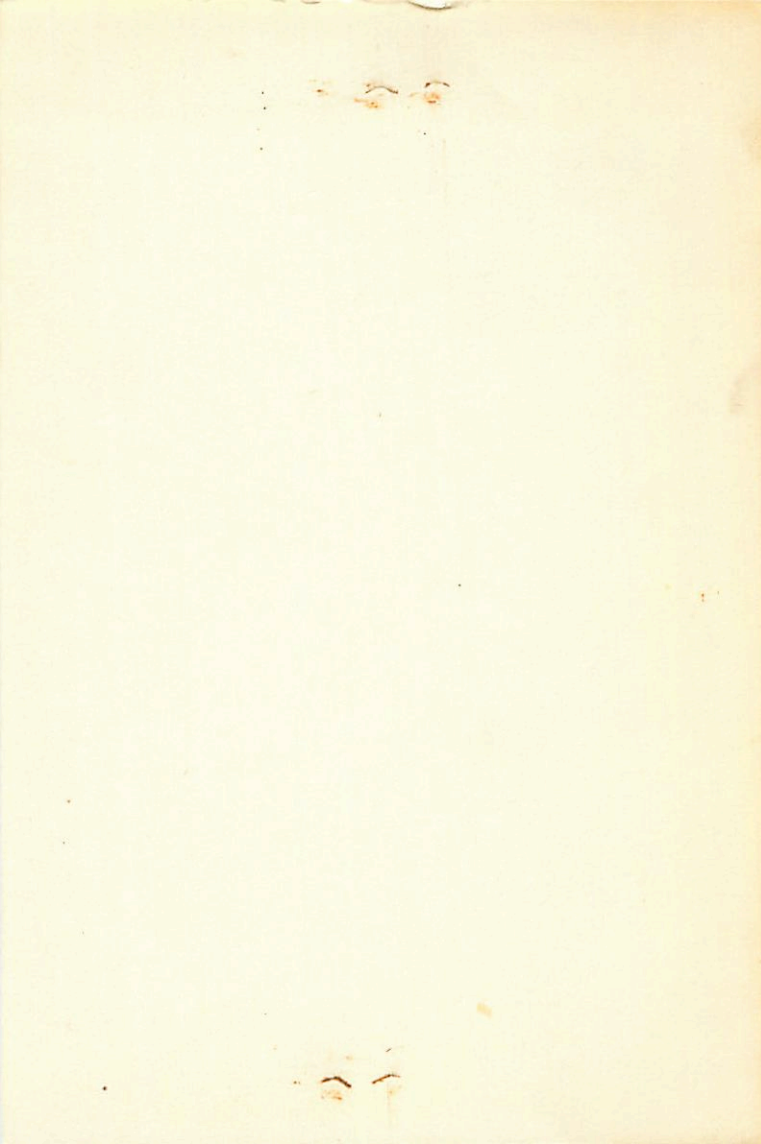
-6 +1

+232 +027

0 +4

+232 +027





15551

621105

19 25.9 + 62 27

7413

40164050

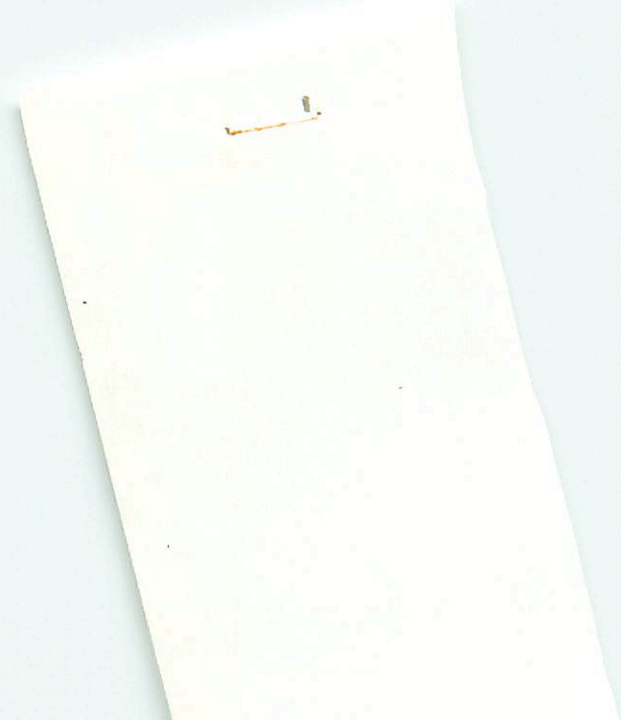
1 1

;

39

1003-09

~~2408 19 26.7 to 8 635 122~~



7413.000*

19.000*

52.900*

62.000*

27.000*

0.016*

0.050*

5.500*

125.893

-39.900

0.240

-44234

183473 19 26.3 842 39 8.6 d03

+4203851

11906

+0062 +173 512 6₂



183216
~~26301~~
~~183216~~

19 2605

+40
 -67
 +10

+001056.7 -26335.4
 +0002 -253
 -30 54
 7.12 +0.57
 6275
 -42.8506
 C) (5)

29.797 18923 -30 53 55.14 1894.2

-53
 744
 439

14.68
 40.46

54.320

52.21 4927.03

8244
 41.2

35.492

1.42

491

47.0

29.808

50.79

52.36

74.59

49.68

-11.90

14591
 95.8
 1009

48.9

29.765
 7.58

55.82 1955.01
 55.78

445

183536

19

26.8

+34

30

8.2

dFF

-49.98

324

C2537

11914

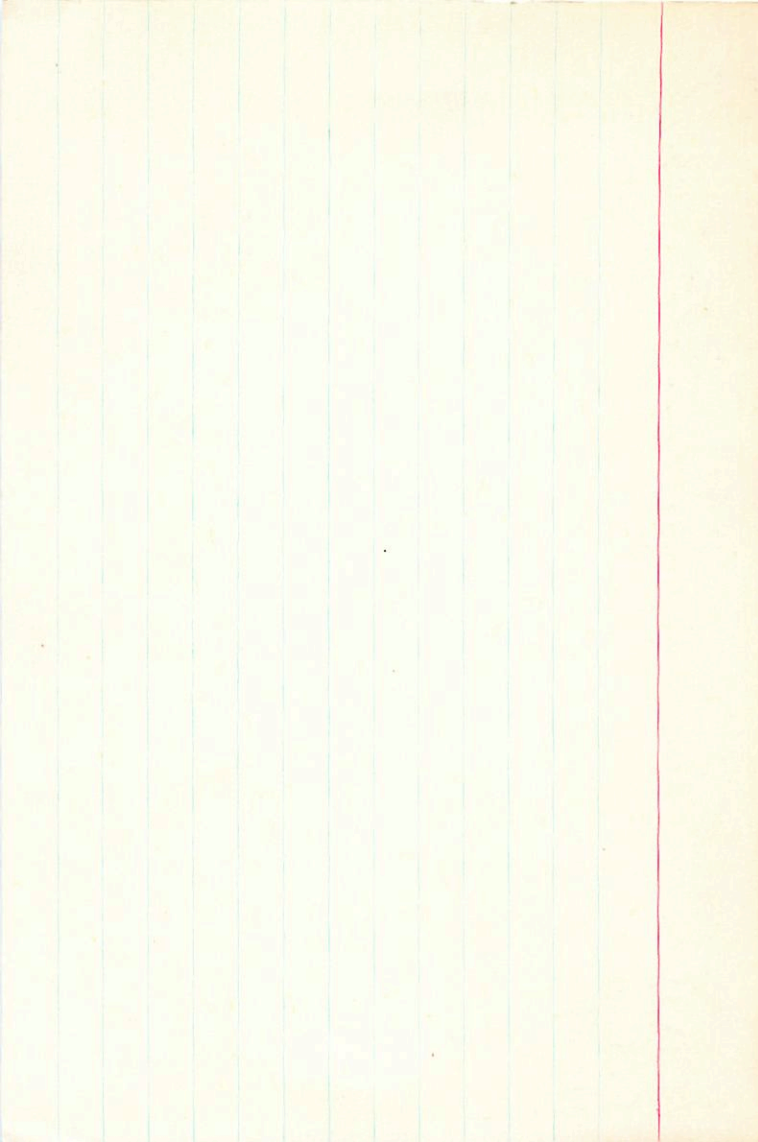
5A (5)

A

+05

+22 C

4J403566



ZC +0020 -036 →

18 26.8 -27 05

193225

-31.4 ± 0.5 C₂(A)

26411

+0023 ± 2.3 -0.45 ± 2.3

1R3 25

-21.8 ③

8.8 7.8

+0020 -036

+001 -0.45 C₂

5.45 +1.12 2.18

30 42

46.721 1903.0 -27 5 23.36 15024

+030 -0392

-108
6.13

2.12
1.24

26.7

13.937

21 1926.70

~~34.7~~
31.3

3277

25.80

25.08 1929.02

46.134
6.63

2.10

22.28

46.134
6.63

23.57
23.57

22.28

46.134
6.63

21.10

22.28

46.134
6.63

21.10

22.28

46.134
6.63

22.54

1939.89

46.134
6.63

22.60

1941.1

46.134
6.63

22.60

1941.1

-929 370 -456 880 +630 -039 -31.4 04.9 +14.3 -166
029 049 011 009 409 183¹⁶² -27.9 -10.3 +25.9 015¹⁵⁶
-3.9 +34.9 +33

-2.6 +37.0 -0.3 013

+0.6 36.2 -2.3 01

+2.7 42.1 -6.5 006

$$\begin{array}{r} +0028 \pm 3.6 \\ +0032 \\ \hline \end{array}$$

$$\begin{array}{r} -029 \pm 2.8 \\ -0219 \\ \hline \end{array}$$

183492 19 27.1 +14 30 5.7 g 110 -40.26

26919

11918 4.254 1904.7 +14 29 30.08 19043

$$\begin{array}{r} -127 \\ \hline 127 \\ \hline \end{array}$$

$$\begin{array}{r} 4.218 \\ \hline 4.107 \\ \hline \end{array}$$

222

$$\begin{array}{r} 4.249 \\ -13 \\ \hline 236 \\ \hline \end{array}$$

$$\begin{array}{r} 4.244 \\ + \\ 249 \\ \hline \end{array}$$

33.0

$$\begin{array}{r} 239 \\ \hline 239 \\ \hline +108 \\ \hline \end{array}$$

$$\begin{array}{r} +1.32 \\ \hline 31.40 \\ \hline \end{array}$$

$$\begin{array}{r} 30.46 \\ +11 \\ \hline 30.57 \\ \hline \end{array}$$

$$\begin{array}{r} 30.86 \\ \hline 30.85 \\ \hline 30.51 \\ \hline \end{array}$$

$$\begin{array}{r} 30.85 \\ \hline 30.51 \\ \hline -89 \\ \hline \end{array}$$

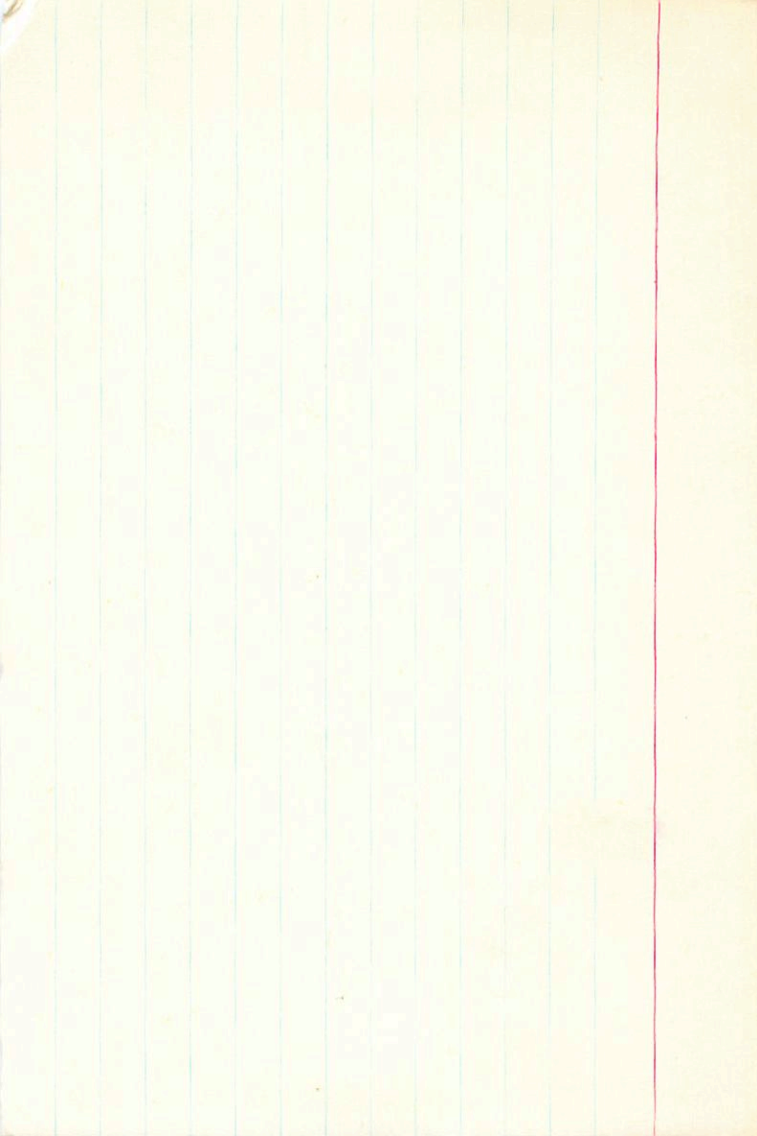
$$\begin{array}{r} 19830 \\ +153 \\ \hline 19983 \\ \hline \end{array}$$

$$\begin{array}{r} 194038 \\ +338 \\ \hline 194376 \\ \hline \end{array}$$

33.4

$$\begin{array}{r} 30.23 \\ +2 \\ \hline 30.25 \\ \hline \end{array}$$

30.25



182101

15 20.4 + 9 49 265

HR7354

6.34 + 45 - 5 C

6626786

.320 .125 .425 ② SAC 2.646

[m] 182

③ cr +

[m] 361

4668. +27.7 + 0.4 + 10.0 + 100.6 = +100.6
 +313 +319 +209 +104 -19.5

3
176
14
103
9

2



R.A. : 19.300
DEC. : 9.000
FM. R.A. : 8.000
FM. DEC. : 107.000
DISTANCE : 2.250
MODULUS : 39
RAD. VEL. : -19.500

p1 (U) : 0.345
p2 (U) : 0.415
p3 (U) : -0.705
q1 : 320.984
U : 28.288

p1 (V) : 0.308
p2 (V) : 0.333
p3 (V) : 0.711
q1 : 332.984
U : -0.934

p1 (W) : -0.879
p2 (W) : 0.478
p3 (W) : -0.843
q1 : 207.813
W : 8.335

R.A. : 19.350
DEC. : 9.800
PM. R.A. : 8.000
PM. DEC. : 107.000
DISTANCE : 2.950
MODULUS : 39
RAD. VEL. : -19.500

q1 (U) : 0.365
q2 (U) : 0.612
q3 (U) : -0.702
dU : 323.984
U : 26.288

q1 (V) : 0.306
q2 (V) : 0.633
q3 (V) : 0.711
dV : 332.384
V : -0.936

q1 (W) : -0.879
q2 (W) : 0.475
q3 (W) : -0.043
dW : 207.813
W : 8.932

35