

6699

8 145 +37 71

~~980-080~~ 980-080 957 808-808 0970

~~825-1528~~ 1814-1528

~~200-0102~~ 300

9814 99151

1881
118

9216-5007
2446-2592-4446

9948 3076 4250 2813

2000-2000 307 4861 2814

0123 3071 4630 2808

01

307 307 4850 2815

R.A.	:	8.250
DEC.	:	37.700
PM. R.A.	:	0.000
PM. DEC.	:	0.000
DISTANCE	:	0.000
MODULUS	:	10
RAD. VEL.	:	0.000

q1 (U)	:	-0.541
q2 (U)	:	-0.038
q3 (U)	:	0.840
dU	:	0.000
U	:	0.000

q1 (V)	:	-0.159
q2 (V)	:	0.986
q3 (V)	:	-0.058
dV	:	0.000
V	:	0.000

q1 (W)	:	0.826
q2 (W)	:	0.165
q3 (W)	:	0.539
dW	:	0.000
W	:	0.000

59

59

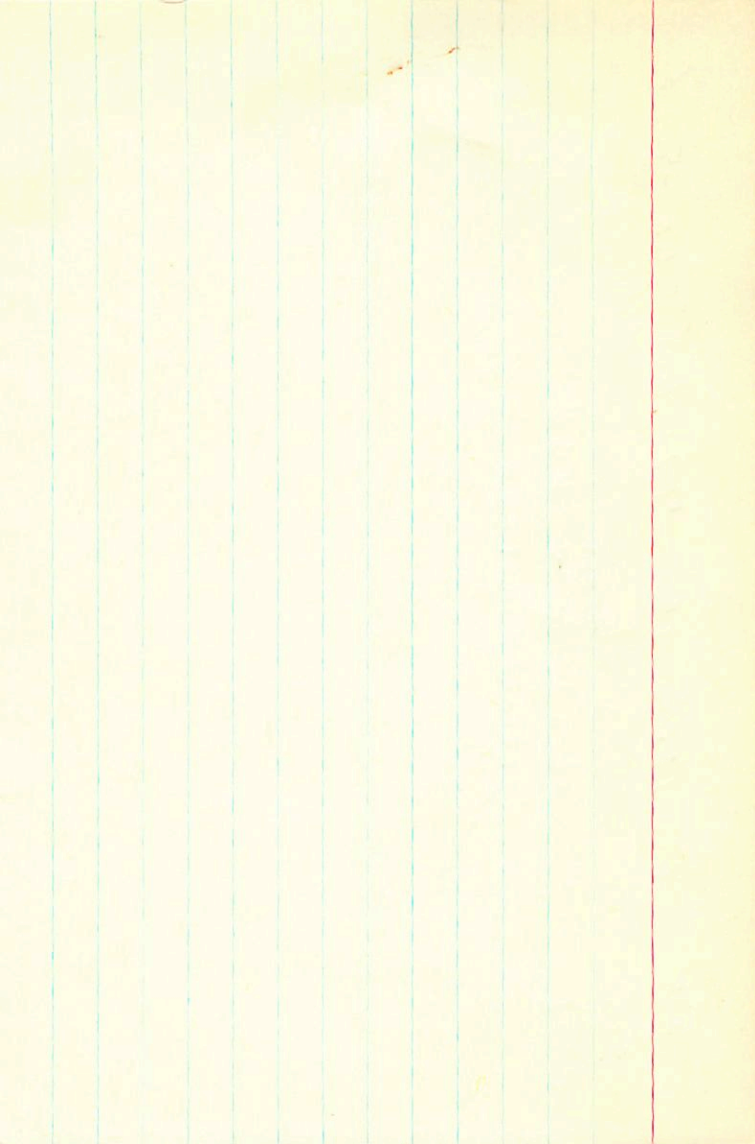
69976 8 18.5 +00 47 6.5 g 100 -5.98

5515

26-006
+0007 ~~+003~~ N30

11381

+0012±2.4 -006±2.0



70337

+1501805

8 19.1 114 56

+751 29

120

7.25 + 1.25 + 1.25 2

6.73 + 0.46 4

635
575 192

+751 Kniffen

-00124 -0253 ZC

-00014 -027 N30 number (Kunnen)

-0014 -0255

-022 -028 Tale

-019 -026 GC

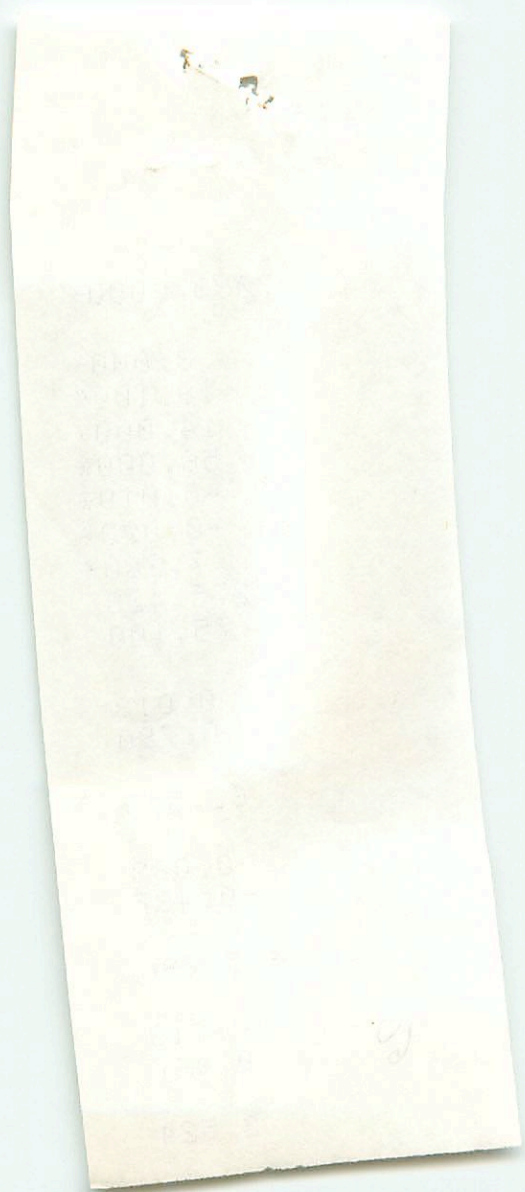
-019 -0245 FN4

-020 -0255 F-64

-0195 -0255 DMM FN4

-019 -023

69



70337.000*

8.000*

19.100*

14.000*

56.000*

-0.019*

-0.023*

7.200*

275.423

75.100

0.018

0.780

63.540

-0.083

-0.437

-55.796

-0.113

0.447

2.524

66

F=0.4
AV 1.3 m/s

HR (3279) $\frac{5.59}{1.378}$

190
15.2
16.25
2 9305
-19 55

5159 489 296 0.599
53 2 0.289 56(29)
960 -86

7044 2/3 8 (34) 1000

1925 / 2.713

1016 -0.20 -0.17
-003 -0.22 66
-0.71

W 5523

5.59 + 0.77 + 0.50

6212 + A 1000
-002 16 0.22 4.5
-024 66 +

000 -0.21

7.34 (64.7)

8.36

2.714 12.1

8.24 10.3

-00034 -0.216

7.409 (36.5)

8.33 + 1.0

2.384 (65.16)

8.62 + 8.3

7.37

10046

90.01 (91.16)

4.4 m/s

4.7

8.54

-14.9

1007-019

90.01 (91.16)

13.49

34.41

23.55

19

8440 -0.004

91.09 (7.4)

57.10

6885

43.85

6.15

-5283

10003

5.11

7.39

7.4

4.5

60=4.5

6.14

1.44

3.47

8.29

4.10

822-570 ⁻³⁴⁰ ~~940~~ 940 -003 -024 -8 008 -2.7 -107
 002⁵ -006⁵ 001² 004⁵ 033 -024 -7.6 +4.3 -6.2 0065

+9.3 -9.9 -19
 [-14.5 -4.3 -15.4]

Levels w/ HSP
 P&S P 50
 CR II + A

+7.6 -8.6 -13.4
 [-13.2 -2.5 -11.8]

01

6

↓
 CR III
 1993 5 1993 5 1993 5
 P&S P 50
 CR II + A

8.300
 13.800
 -42.000
 -29.000
 5.000
 100
 25.100

 -0.550
 0.387
 0.777
 64.036
 25.906

 -0.151
 0.878
 -0.454
 -91.524
 -20.544

 0.822
 0.367
 0.436
 -209.275
 -9.978

20

-4 + 30 -4

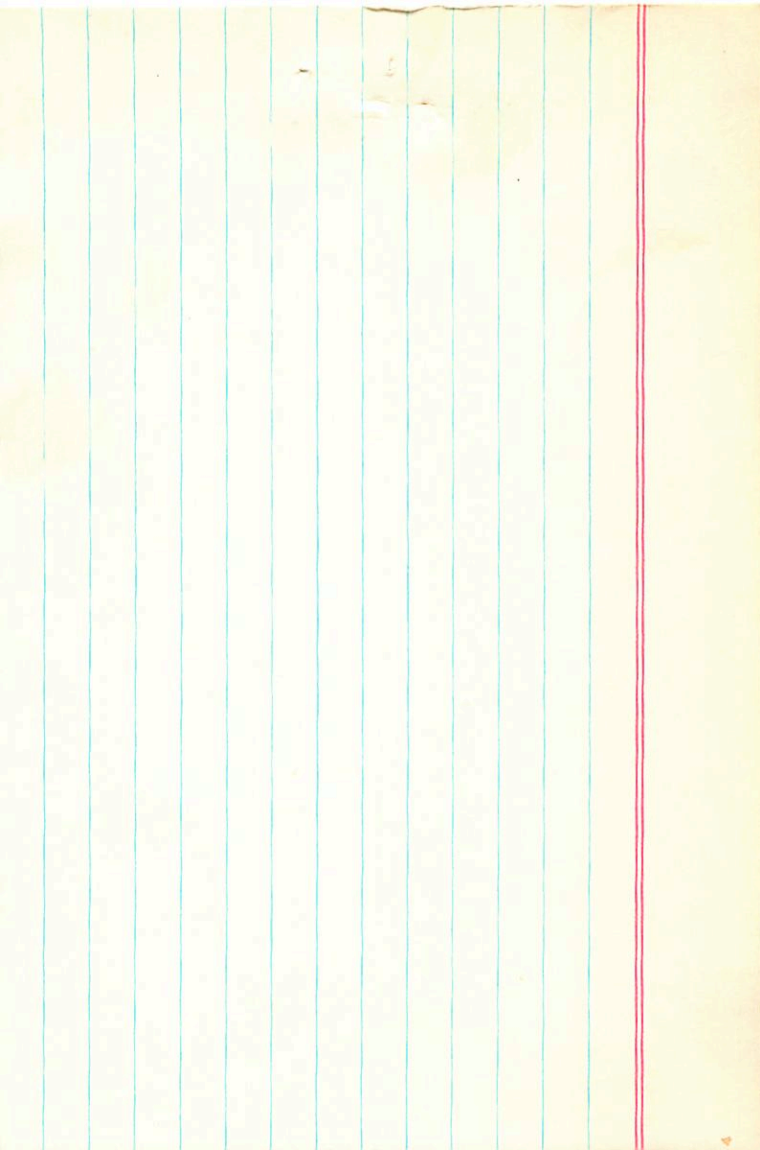
013

522.520
 239
 974
 571
 -039
 -029
 135.1
 -007
 -010
 +6
 -103
 -175

20462 8 19.1 -30 25 +32.2 46
FD894 121 114 -10

8.93 +1.14 (2-20)

¹⁰
-018 +012 CP



31 days
H 3275

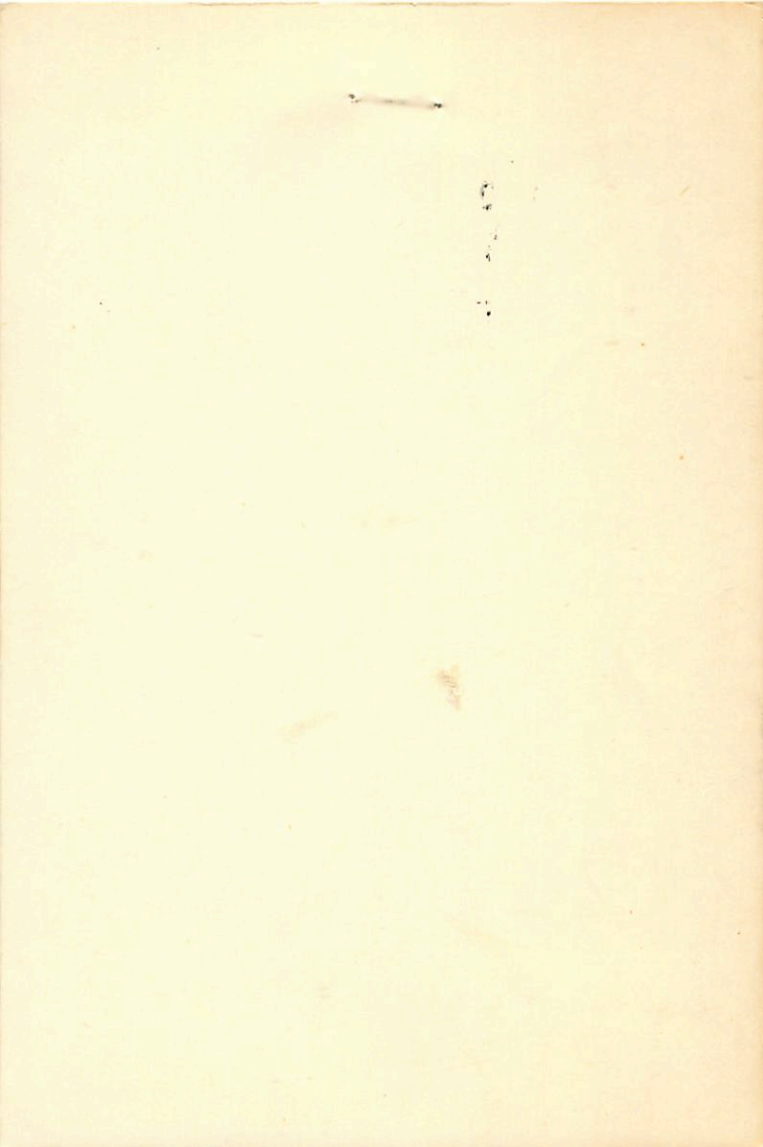
8 19.4 +43 21
K 5.11
11401 3.27 W 1 8 X 4.13 +1.60 H

00205 -1027 W 3 50
00196 -1036

0216
-053 -101
32
701
5.11
+24.1

+24.42
+26.21
-014 -103 G-C
-020 -102 N30
-017 -104 FR3
-017 -103

1376 1352 21 12.1 W F
120. 112 152.1 112.1



31249
70272

GC11044

W5525

Y1584

+4801815

8 19.4 143 21

68

+2442 3(11)

-0018 -102 N30
-0013 ± 1.2 -103 ± 1.2 GC → N30

GC -014 -103

+39 -93 -4 .005

+29 -47 +6 .010

284(20)
-24(8)
260

0098

5.58

382

-59.9

44

67

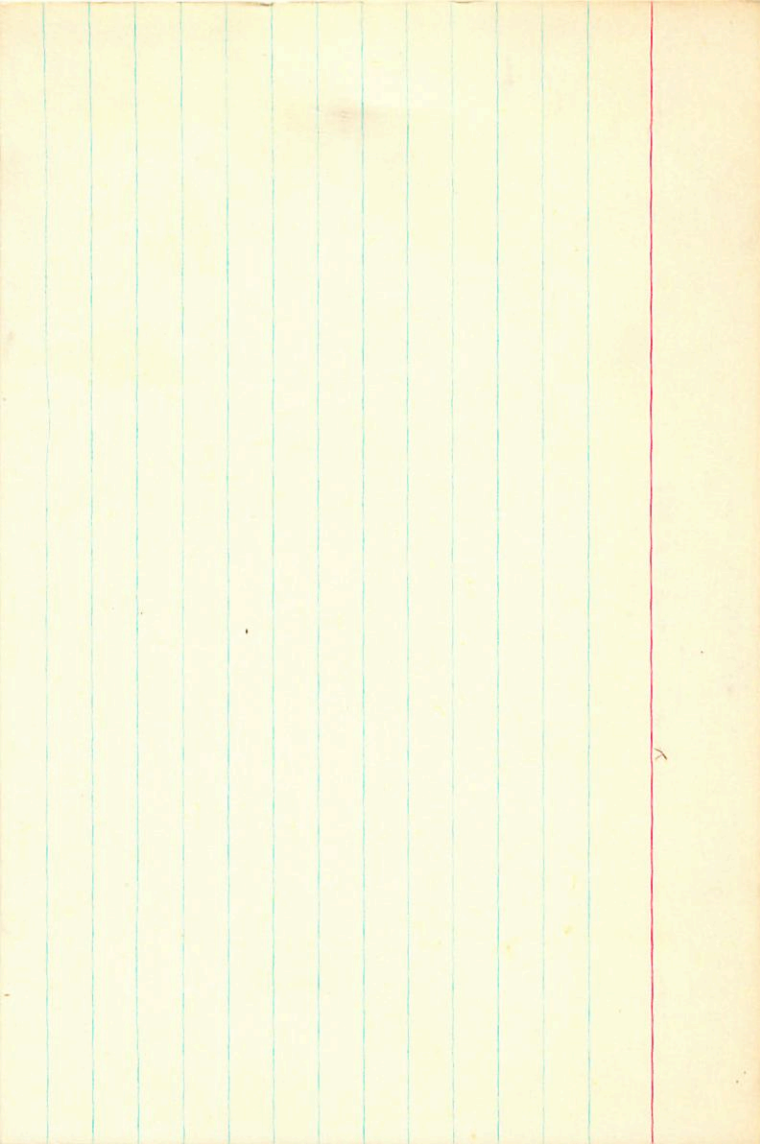
145 P=419

T dyn 9 19.5 +33 41

-12 cm.
+6 cm(2)

de

1029.5 +007.6
Rif



0254(10)
0156(7)

20
11
12
8

15
52
55
101

022 111 507 2.759 (104) 711 711 742 7659
054 122 781 2770 (100)

3301 8 20.0 71 27 5.4 (B9) cell kin
3302 5.26-06-30 73 410 54 Ap 25p
5.64-11-30 76 155

S.4 ✓ 104 807 2.752 239
101 804
202
1000

022 80260 4031

4 (205) 22-024
-0085+0335
156

0-6: (-446 822 2720 239
110 831
200
1051

-0024 +030 624
-6019 +040 +124
-609 +042
-605 +042

1000 11 0.65

(6.05)

11.1 = -0.6
8.33

-714
-26.1
+33.5 5.7 -6.0

8.330
-71.400
-26.500
33.500
5.700
138
-6.000

-0.555
0.796
-0.242
148.604
21.967

-0.146
-0.380
-0.913
-54.475
-2.039

0.819
0.471
-0.327
42.055
7.766

64

70574
11425

AR3286
old

8

20.0 -6 01

47.8 ± 2.0

-0035 ± 7.5

+002 ± 5.4

(8)

2.508

540

-0041

+001

5.43

4.2

146

-0040

-001

-04

704

5.52

2384

(65.46)

5.58

23

+13

407

5.41

-00405 000

2.370

(64.91)

5.60

07

0

397

3288

5

20.4

· - 724

④

450 ~~200~~

ARC

5.96 + 16.7 + 16.5 ~~6.96~~

①

47.4 ~~48.7~~ from

-24 000

GfC

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WWW.LIBRARY.UA.EDU

3291

8

206

-26 12

12356

DM 200

9.1

4065019

-22 21 +018 YXC

275

208 208

14149

14148

254

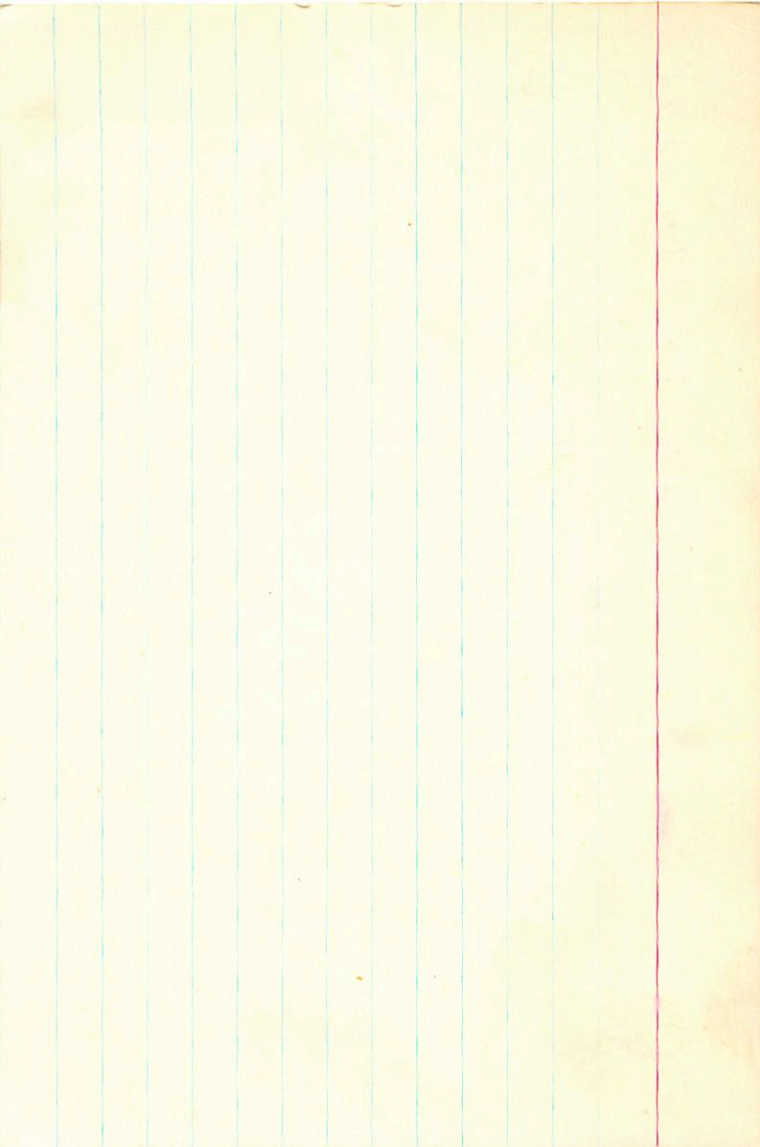
70566 8 20.7 +32 27 2.5 A3m -2.4D

5540
71444

26

-0007 -0.11 N30

-0006.53 000±4.9 GC → N30



70352
6011451
W5542
4987
F660550

8 21.0 +66 38 dms +18.06w(3)

8.91 +0.88 +0.68 K2V R

$\Sigma = -0.8$

CMS-B3

+023 -525 GA
+003±5 -508±5 ✓

+49 -66 +25 .030
+50 -71 +25 .0285
+56 -83 +27 .025

+008 -538 GC
+011
-520

-5M(7)
206112
190112
1724

70311
+70°510
5545

8

21.4

+70

17

7.5

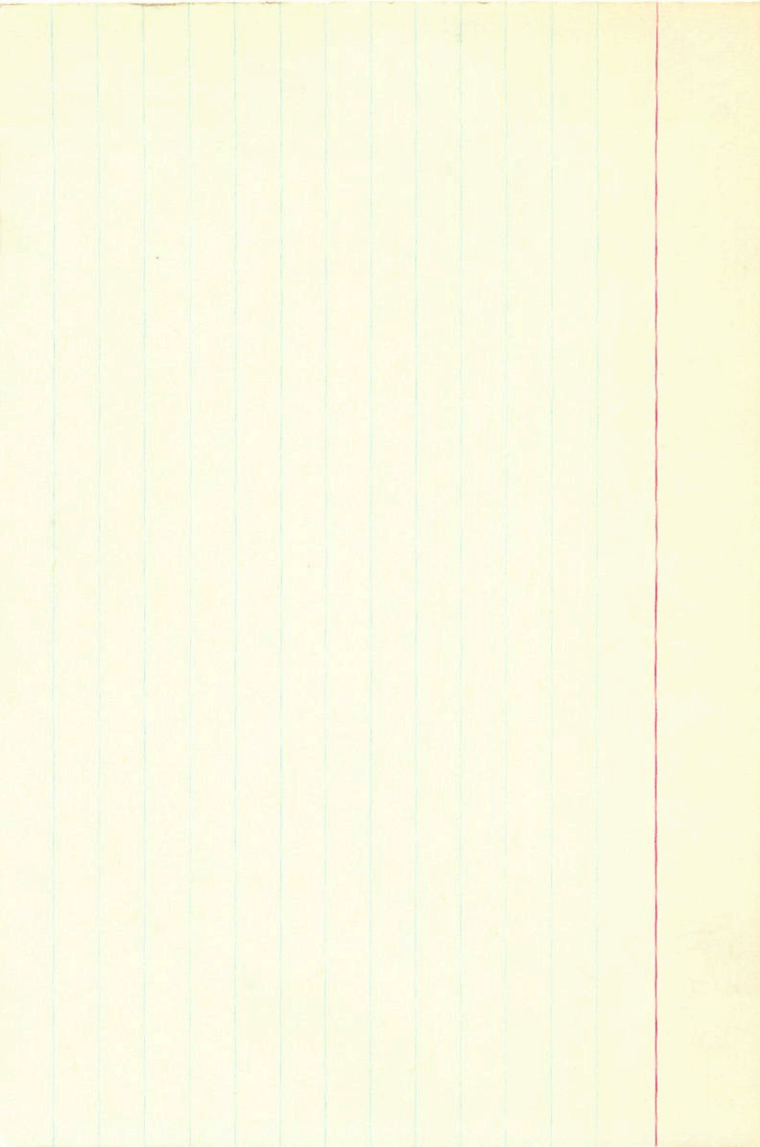
2963

in

-62.66

-081 +041 CP

-086 +026



7027

+70°510

8

214 +70 17

2963

62.684(3)

W 5545

7.5

-021 +041 GAZ

-086 +026 G'(6)

-29 -10 -70 .01

816 -528 941 337 -681+041-62.6 839 -59 066
066 -032 047 -023 452 071 -21.1 +12 -17

+54 -10 -53 01
-29 -10 -70
+36 -13 -56 02

-031 +029 CR

4C

71242

Y

21.5

-67

10

RIIF

+15.3

FD895

7.52 +0.96 (201)

6C11465

-0061±9.5 +047±7.8

31.531 1902.5 -0066

+031

25.69 1900.2

+2901

-0064 +039

-2.34
28.03

01.82

31.58

26.00 1948.2

-001
519

-53

2653

- 302

+ 1.50

66

8.350
-67.200
-96.000
39.000
6.500
200
15.300

-0.550
0.809
-0.185
247.979
46.655

-0.142
-0.313
-0.939
-32.673
-20.888

0.817
0.498
-0.296
-52.825
-14.815

66

71129 8 21.5 -59 21 1.7 100 +11.5a

5544

11403

Σ Car

-0022

-0034

-0026

-020 +014

+013 N30

+018 GC →

+014

156m.

-556 828 -073

-145 183 -972

814 524 -222

+0527 +0549

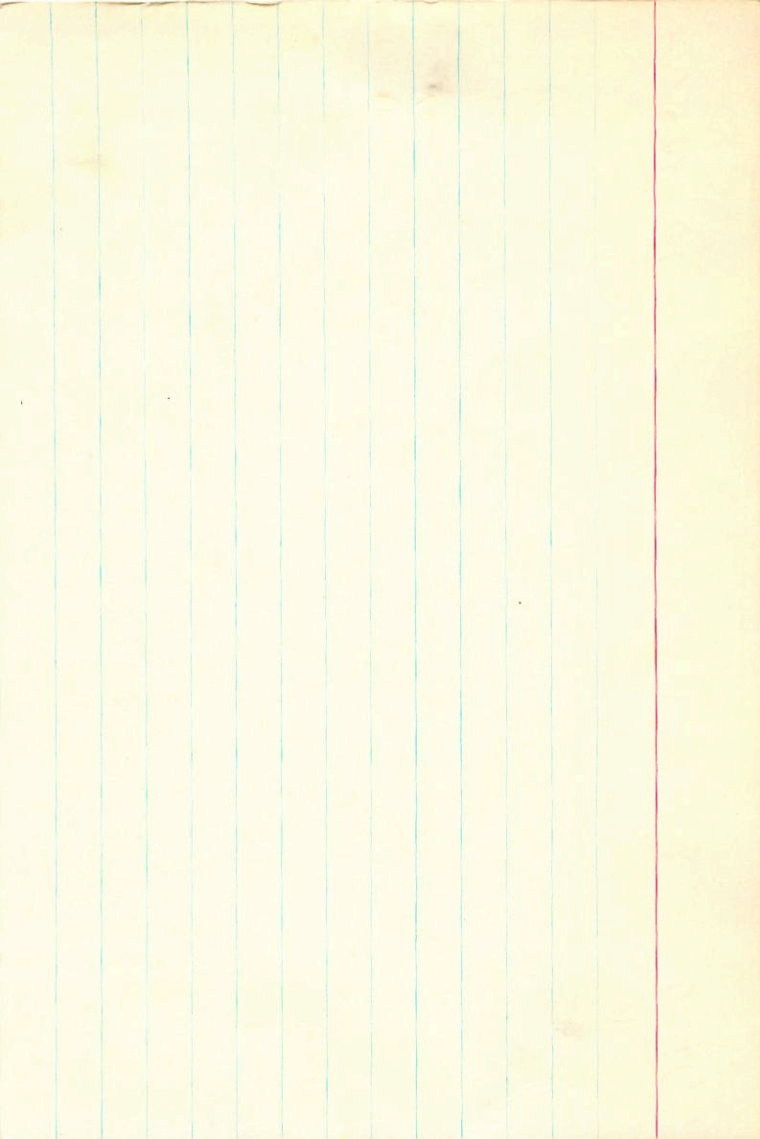
+0137 -0121

-0776 +0351

1076 +16.7 -0.8

+0016 +0.2 -11.1

-0425 -6.6 -2.6



+0009 ± 3.5
+0012
-126 ± 3.5
-131

70843 8 21.9 +17 2.1 7.0 F7 -15.58⁰

5548

11475

54.828
-0.50
54.328
7.78

54.809
20
54.829

29.483
25.358
54.841
7.54
7.34
14.88

57.795
21.6
79.395

1894.8 +17

39.2

20 47.50 1892.3
7.27
54.77

49.09 1432.6
2.6
49.35

95.40
-48.31 1529.40
47.09

11.26
-1.26
10.00

48.29
2.0
50.29

219.30
-5.47
213.83

1940.11

2.0
48.29
50.29

62

3242

8 219

135 10

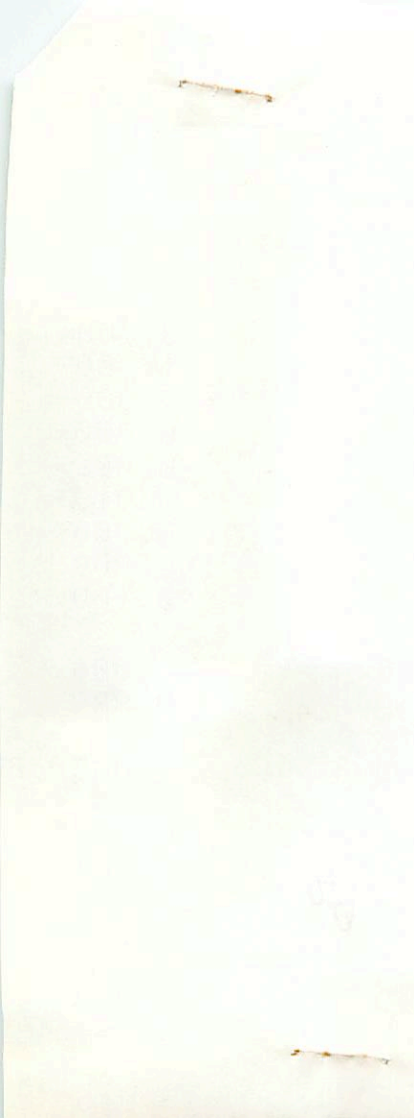
609 120

$$\begin{array}{r} 1011-019\ 60 \\ \underline{\quad\quad\quad} \\ 1011-019\ 60 \\ \underline{\quad\quad\quad} \\ \quad\quad\quad 0 \\ \underline{\quad\quad\quad} \\ \quad\quad\quad -002 \end{array}$$

13316

1

68



3292.000*

8.000*

21.900*

35.000*

10.000*

-0.002*

0.019*

5.000*

100.000

33.100

0.006

0.828

28.005

0.090

-0.105

5.534

0.008

0.551

19.045

64

$$-0013 \pm 4.9 \quad -023 \pm 3.3$$

$$71095 \quad 8 \quad 23.0 \quad +2 \quad 16 \quad 5.9 \quad g \quad N5 \quad +11.66$$

5559

$$11493 \quad 59.847 \quad 1888.4 \quad +2 \quad 15 \quad 58.11 \quad 1893.0$$

$$\begin{array}{r} 80 \\ \hline 92 \end{array}$$

$$\begin{array}{r} 1.31 \\ \hline 59.42 \end{array}$$

$$\begin{array}{r} -019 \\ \hline -1 \end{array} \quad -023$$

$$\begin{array}{r} 59.825 \\ \hline 21 \\ \hline 814 \end{array}$$

$$\begin{array}{r} 58.27 \\ \hline 19 \\ \hline 58.46 \end{array}$$

$$1432.9$$

?

||

69

71575.800+

8.000+

23.000+

2.000+

16.000+

-0.020+

-0.023+

6.500+

199.526

11.600

0.004

0.688

0.717

-0.071

364
474
29
8 23.0 +17 13
3 km
+17
-105
dF4

71030

HR3299

GL11494

25 km

6.10 +45 -02 3549

1286 1146 .486 ② SPC 2.660

3956 137

104 12.55

[m] 197 +26

[C] 432 +55

3.81

3.20 +43.0

-38.8 -24.9

+313 -543 -979

(158)

-197

-01345 -1575
+24410

-01337
6644
2004

-191
-190-155

+37.56

3299.000*

3.000*

23.000*

17.000*

13.000*

-3.190*

-3.155*

3.150*

42.658

37.500

3.25

9.314

3.782

43.3

42.747

-3.541

-3.404

39.3

--38.235

126

24.7

-9.979

3.474

70

-23.983

4R3299 8 23.0 117 13 dF4 +27.58

256e

6.2

-189 -158 GC

-189 -159 Z

-193 -158 ✓

-194 -158

71030

5560

11494

34
-0135 -158 N30

-0134 #1.8 -157 ±1.5 GC → N30

512-594 236 555 -184-158 +32.5 -047+11 -215
158 035 113 027 421 215 +355 -21+29

$$0 + 53 - 13$$

03

$$41 - 33 - 15$$

$$-5 + 17 - 7$$

04

$$38 - 27 - 7$$

$$-9 + 13 - 3$$

05

8.21 TD.61 TD.11 6.92

18° 1939 5 23.1 +18 00 409 +25.2

71053 728.4 30
~~2848~~ 2918
~~2848~~ 2918

2.9 P.W. 0.25.2

W5561 Outgoing

280 10 ps.

Hydro

-0061 -021
-087 -021

5214 -9528 0893
8533 -3035 -0064

~~-585 -029 0.2~~
~~-090 -032~~
~~-3~~
~~-093 -031~~

170 +35

-564 +264 +782
-137 +905 -404
+814 +335 +474

+2484 -0388
+0604 -1329
-3588 -0492

+2098 +10.5 +21.9
-0725 -3.1 -11.3
-40 80 -20.4 +133

812-584/ 309 551 -185-029 +25-009 +9 -133

071 007 05/005 813 275 +26.6 16 +22.

0 +35 +2

F 02

+5 +40 0

0 15

+35 -15 -11

0 1

+15 +80 -4

+113 -18 -23

+39 -17 -17

0 125

3306 8 23.2 +7 44 68 17

7115
11505

5.13 +0.94 +0.14 4.25 +0.32

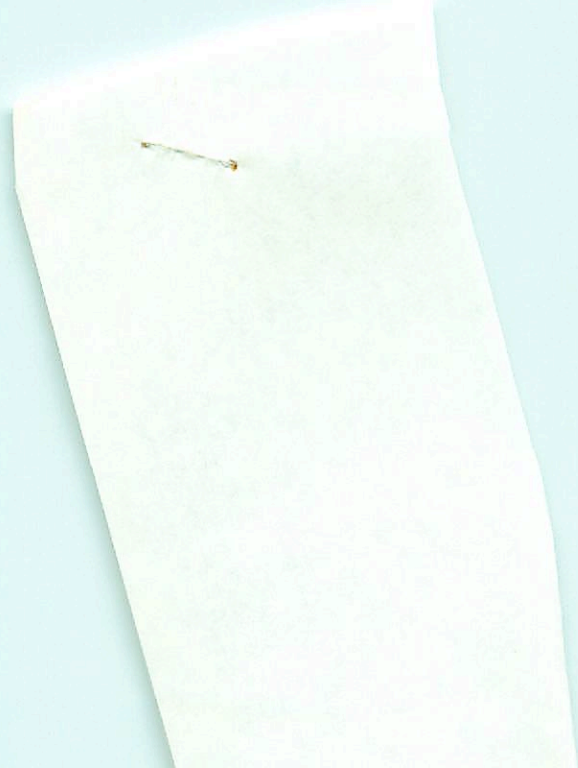
-0026 -014 130 ±0.3
- 9 + 7
-0027 -0133
+ 24

-040
+
-038 -011
+145
+5
+18

2
4
32



32



3386.000*

8.000*

23.200*

7.000*

44.000*

-0.038*

-0.011*

8.500*

501.187

14.500

0.081

0.720

A056815

236mc 71150

8

23.8

+27 06

A3

-2.8
A3 -31.46

17R330/11 (5570

6.3

6.3

144 III

-0.61 -0028

500 11520

-0.12 -007

-0.12 -004

-0008 ±3 -002 ±2.4

-0009 ±2.8 -007 ±2.0

-0009 ±1.5 -003 ±2.1

+809-587 456 890 -012-004 -31.4-002-14.3-017
+010 002 007 001 043 043 -27.9 + ~~16.4~~ -22.6

+22.5 -16.5 -14.7 007
-20.3 +5.8 -24.7

+27.2 -11.8 -18.5 004 ✓
-16.6 +4.6 -30.3

+20.7 -18.3 -16.0 01

21144
-44116
+321731

8 238 +32 22 +32

2056514

-0024 -116 2514

-50259 -1146

(NO)

-0329

818 6092 -8141
9930 -5807

-033.5-112

-0032 ± 6.9
-0032

+005 ± 5.7
-017

71262 8 24.0 +7 49 6.8 A1M +15.5

5574

11528 2.694 1902.5 *7 48 57.57 1899.5
 $\frac{152}{946}$ -25
57.32

2.712

$\frac{275}{75}$

88

$\frac{744}{102}$

2.730

$\frac{27}{753}$

31.9

56.69 1932.5
 $\frac{12}{56.81}$

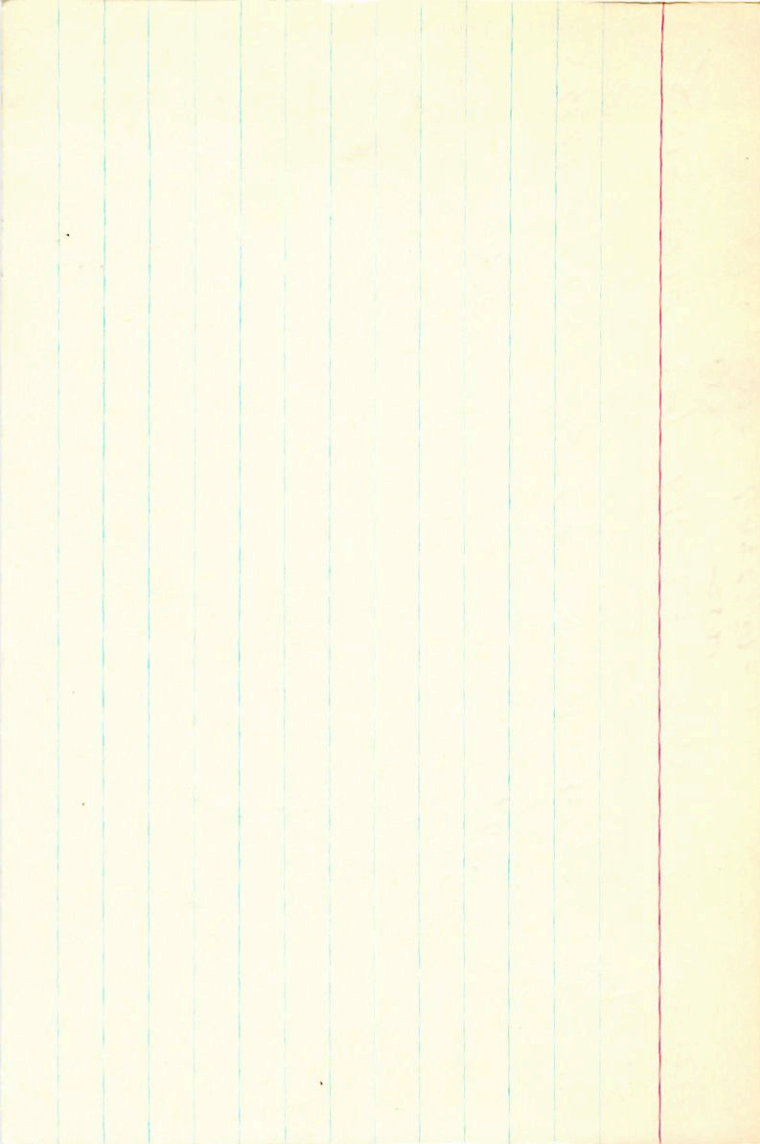
56.52 1936.3

88

$\frac{5654}{344}$

$\frac{56.70}{-62}$

34.9



FGHya

8 245

+ 3 40

- 42

- 012 + 055

138

- 618

- 570

436 + 656

0459 + 137

1596 + 220 ~~29.2~~

- 090

- 131

788 - 601

+ 1060 + 2054

2160 + 298 + 2512

811

434 352

- 0654 + 1131

0477 46.4 - 16.4

232

689
345

7.24

7.46 + 0.00
7.52
9.06 + 1.00
10.06

404

875
9.5

7.26 + 0.14

5.06 + 1.00
6.06

R.A. : 3.300
DEC. : 19.280
R.A. : 4.888
DEC. : 5.888
STANCE : 6.888
ODIUS : 7.888
VEL. : 8.888

41 (U) : 9.228
42 (U) : 9.227
43 (U) : 9.226
44 : 9.225
45 : 9.224
46 : 9.223

47 (U) : 9.222
48 (U) : 9.221
49 (U) : 9.220
50 : 9.219
51 : 9.218

52 (W) : 9.217
53 (U) : 9.216
54 (W) : 9.215
55 : 9.214
56 : 9.213

R.A. : 8.300
DEC. : -19.900
R.A. : 0.000
DEC. : 0.000
DISTANCE : 0.000
MODULUS : 10
VEL. : 0.000

q1 (U) : -0.550
q2 (U) : 0.687
q3 (U) : 0.476
UP : 0.000
U : 0.000

q1 (V) : -0.151
q2 (V) : 0.479
q3 (V) : -0.865
VP : 0.000
V : 0.000

q1 (W) : 0.822
q2 (W) : 0.547
q3 (W) : 0.159
WP : 0.000
W : 0.000

19

7033P

5

18.1

113

47

46

+25.1

1

+1401879

7.1

~~-027~~

-039

-029

~~-040~~ 6/1950

522.520 ²³⁹ ~~974~~ 571 -039-039 +25.1 ⁻⁰⁰⁷ ~~1070~~ +6

032.006 022.004 133 [✓] 133 [✓] +24.4 -14 +20

-4 +30 -4

⁻¹³³ [✓] ~~1070~~ [✓] ~~1070~~ [✓] ~~1070~~ [✓]

013

29

8.300
13.800
-42.000
-29.000
5.000
100
25.100

-0.550
0.307
0.777
64.036
25.906

-0.151
0.878
-0.454
-91.524
-20.544

0.822
0.367
0.436
-209.275
-9.978

2

44
308

3306 8 23.2 + 7 44 68 π

7115
11505

5.13 + 0.94 + 0.14 4.75 + 0.32 + 0.00

-0026 -014 N30 ± 0.3
- 8 + 7
-0027 -0133
+ 24

-040
+
-038 -011 +14.5

45
+18

22