

783

307

285

513

714

357

362

629

544

000

526

500*

103*

069*

000*

000*

700*

000*

000*

000*

5761.000*

19.004

0.821

0.175

-12.780

0.490

-0.137

25.758

-0.292

0.263

1.000

100.000

5.000*

0.028*

-0.067*

59.000*

36.000*

28.600*

15.000*

+22

9

-165

+33

5.58
125.5

192mm

146926

16 12.2 +76 00

5.5

139m -0.9d

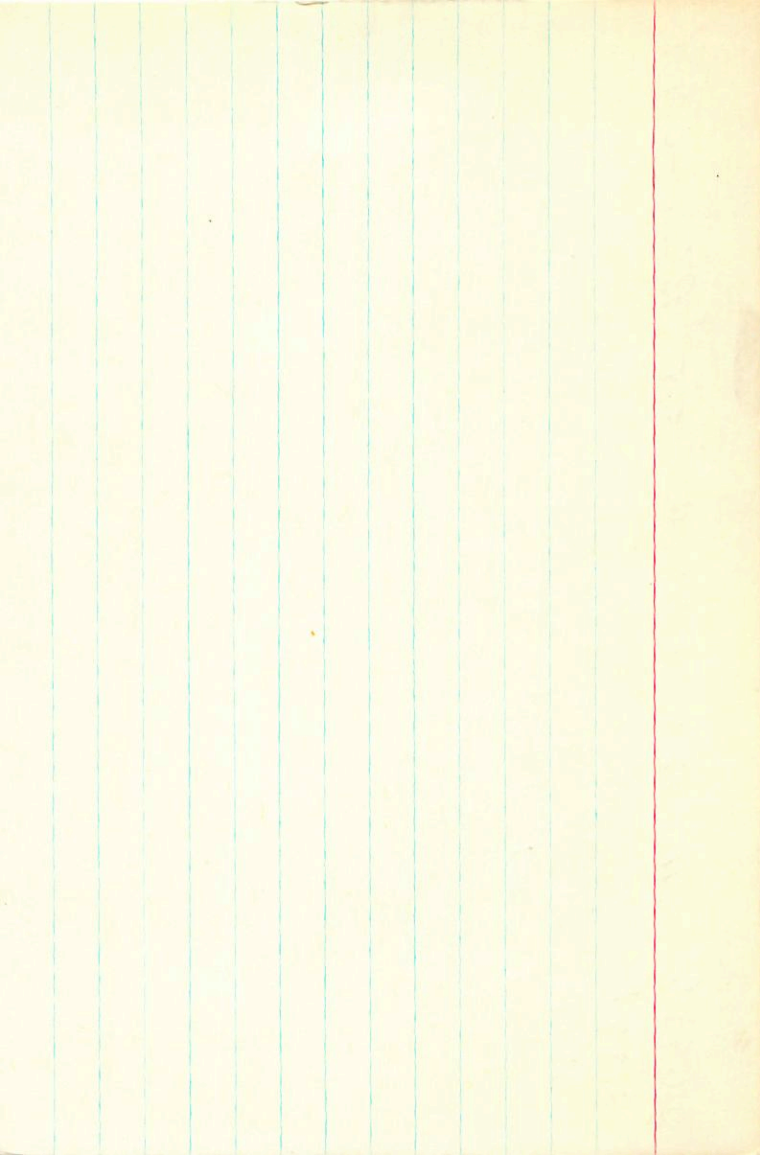
21851

18

9344

2024¹⁸ +025¹⁴ N30

-0010^{1.1} +012^{2.2} -0020



12H2

146169

21854

9346

16 12.3

16.557
54
1905.1

16.847

+18

868

16.859

865

865

-041

3.5

-0012±3.5
-0013

+07

+7

59 6.8

58.74
41
58.33

58.75

74

58.61

58.70

12

58.58

58.60

-1.75

-012±2.4
-020

6.8 9124

58.74
41
58.33

58.75

74

58.61

58.70

12

58.58

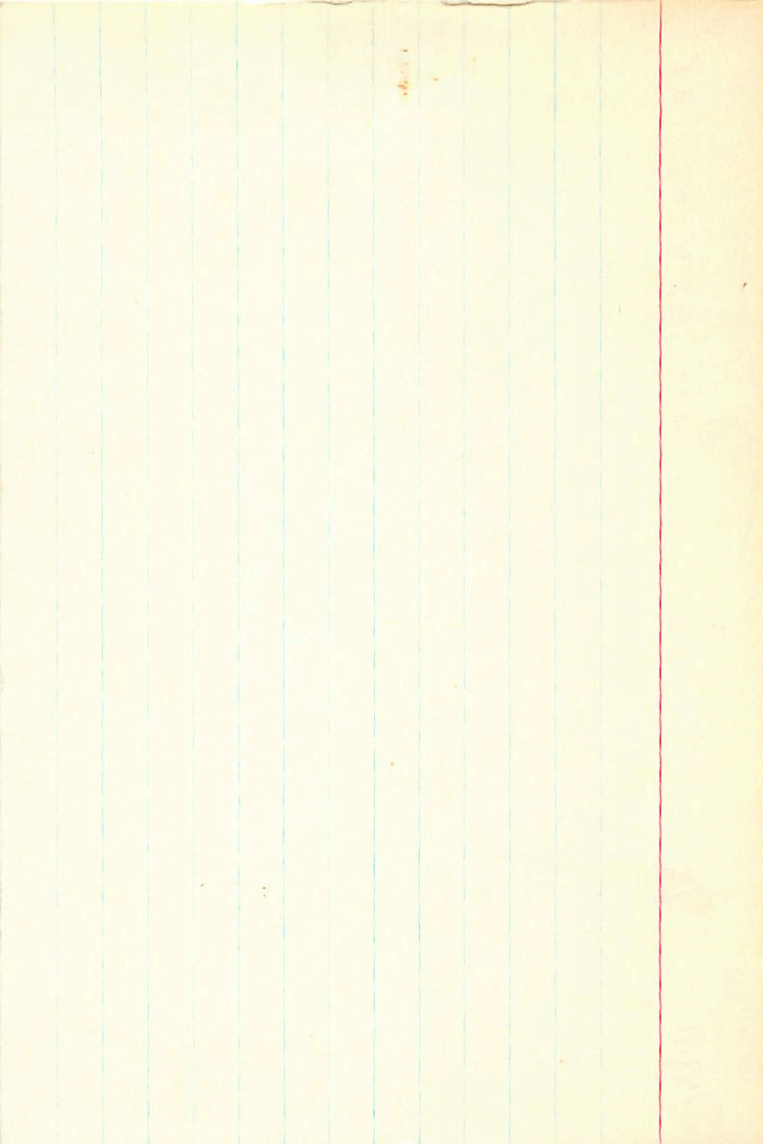
58.60

-1.75

328

36.6

37.6



4.71
 2.91
 13.1
 -0079 ± 8.7
 -0090
 -53 34
 -10.5
 6.52
 -19.0 ± 0.8
 S₃(4)

146059

21869
 7.1-2.40.5
 PPM
 1080-088
 6.6
 6.39 + 80 (1.81) 6-5011

4.115
 378
 4493
 7.166
 56.950
 4.138
 2.84
 -1/271

13.10
 2840 1928.81
 44.22
 18.12
 1.94
 16.10
 17.02
 -3.94
 4731
 33.7
 37.5

171
 255
 088
 81.5
 420
 211
 262
 262

8102 - 6074
 75861 - 7443
 1149
 0059
 434
 0150

4.114
 1/5
 314
 266
 3505
 260
 3203

17.7 1989.5
 -21
 17.91

1149
 0059
 434
 0150

1149
 0059
 434
 0150

19/11/1 265e 0.5e 25

140 275.0 0.6e 25

215 215? 15

263 310.6 0.25 113

331.57 335- 0.32 608

346.2 344 0.30 418

386.1 353 0.34 268

24.97 9⁷⁹ 0.31 213

52.61 729 0.26 113

56.47 part over (prev) 113

1/2/2000

D.W.

63

$$1.35 \times 10^4$$

$$7.32 \times 10^{-2}$$

$$a^3/p^2 = 7.2 \times 10^{-6}$$

M : 0.000
 GM : 0.000
 3 (M) : 0.000
 2 (M) : -0.000
 1 (M) : -0.000
 V : 0.000
 vb : 0.000
 3 (V) : 0.000
 2 (V) : -0.000
 1 (V) : 0.000
 U : 0.000
 ub : 0.000
 3 (U) : 0.000
 2 (U) : -0.000
 1 (U) : -0.000
 VEL. : 0.000
 DULUS : 10
 TANGE : 0.000
 DEC. : 0.000
 R.A. : 0.000
 DEC. : -0.000
 R.A. : 10.000

3W
 +3202697 16 13.0 132 17 8.5 9.0 16488
 146470
 9858
 10010 -0600

R.A. : 16.200
DEC. : -53.550
R.A. : 0.000
DEC. : 0.000
DISTANCE : 0.000
MODULUS : 10
VELOCITY : 0.000

1 (U) : -0.337
2 (U) : -0.363
3 (U) : -0.869
dU : 0.000
U : 0.000

1 (V) : 0.643
2 (V) : 0.585
3 (V) : -0.493
dV : 0.000
V : 0.000

1 (W) : -0.688
2 (W) : 0.725
3 (W) : -0.036
dW : 0.000
W : 0.000

39

499995 ✓

84

16 13.5 107 29 2.4 2466 +66

146413

9.5 } 6804m
9.8 }

+18 -48 cm

4
5
9359

Van Val

+0115 ± 6 -482 ± 1

banked

032 (10)
0 5 (4)
/ 6

+177 -487

+173 -480

2.3

31000

-331 +585 -740	-2699 -13227	+15926 -53° -4.1	-57.4
+642 +715 +277	+5234 -16166	-1.0932 -38.4 +14	-33
-691 +384 +612	-5634 -8682	+14316 -47.1 +3.7	-41

745 965
750 7580
779 846

30.372

30.372

20.50 1936.4

998284 (1)

1959.00	28.5	2.163
85.80	2.11	2.897
2012.60	163	3.424

1830.94	346	2.57	4 S	+9	-0.03	+3	-0.02	+11.0	-0.04
1845.20	338	2.25	4 Ma	+5	+0.04	0	+0.04		
1852.63	334	2.11	2 Ma	+4	+0.10	-1	+0.10		
1866.53	268	0.71	3 A	+4	+0.13	+3	+0.15		
1897.25	257	0.59	3 A	-4	+0.02	-3	+0.04		
1899.30	241	0.54	3 A	-7	+0.02	-6	+0.03		
1903.38	218	0.44	2 A	+1	-0.01	+3	-0.03		
1905.43	198	0.40	3 A	-1	-0.04	0	-0.06		
1906.39	191	0.38	3 A	0	-0.05	+2	-0.07		
1911.44	133	0.38	2 A	-4	-0.07	-6	-0.03		
1912.56	129	0.43	2 A	+4	+0.02	+2	+0.01		
1914.44	106	0.51	2 A	-1	+0.06	-2	+0.06		
1916.32	93	0.52	3 VB	0	+0.01	0	+0.01		
1916.41	92	0.50	2 A	0	-0.01	0	-0.01		

48

C202-25

16 134 749 54

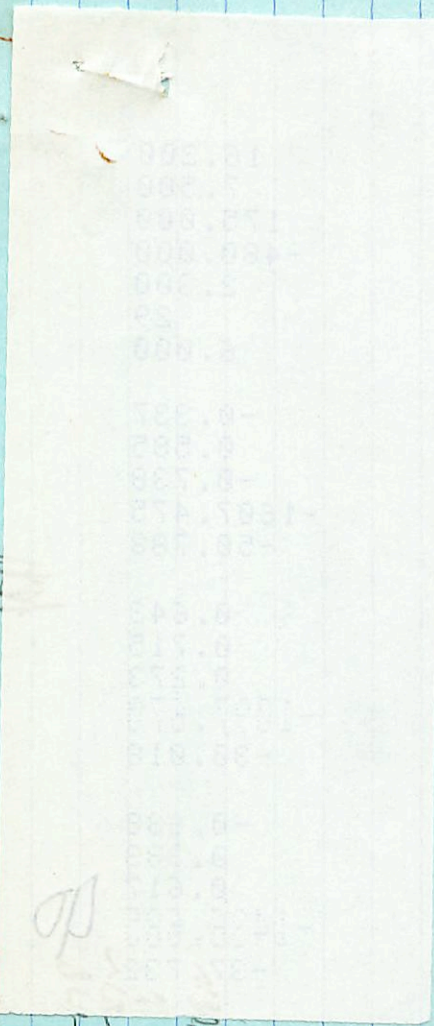
408.2-2

R524

1102 0.50

245 203

115-272



R.A. : 16.200
DEC. : 49.900
R.A. : -178.000
DEC. : -272.000
ANCE : 6.000
ULUS : 158
VEL. : -108.200

(U) : -0.337
(U) : 0.930
(U) : -0.151
dU : %-1015.559
U : -144.659

1 (V) : 0.643
2 (V) : 0.344
3 (V) : 0.684
dV : -792.942
V : -199.673

1 (W) : -0.688
2 (W) : -0.133
3 (W) : 0.714
dW : 545.438
W : 9.209

41

151400

-0031 ± 3.1 +037 ± 2.6
-0030 +041

146452

16 13.6 +11 33 7.5 967 -25.98

21875

9361

38.395

1902.3

+11 32 52.34

1897.0

$\frac{148}{1543}$

38.438

$\frac{14}{452}$

38.431

$-\frac{4}{527}$

$\frac{440}{-103}$

34.2

$-\frac{1.96}{50.38}$

52.06 1933.3

$-\frac{9}{51.97}$

52.16 1939.70

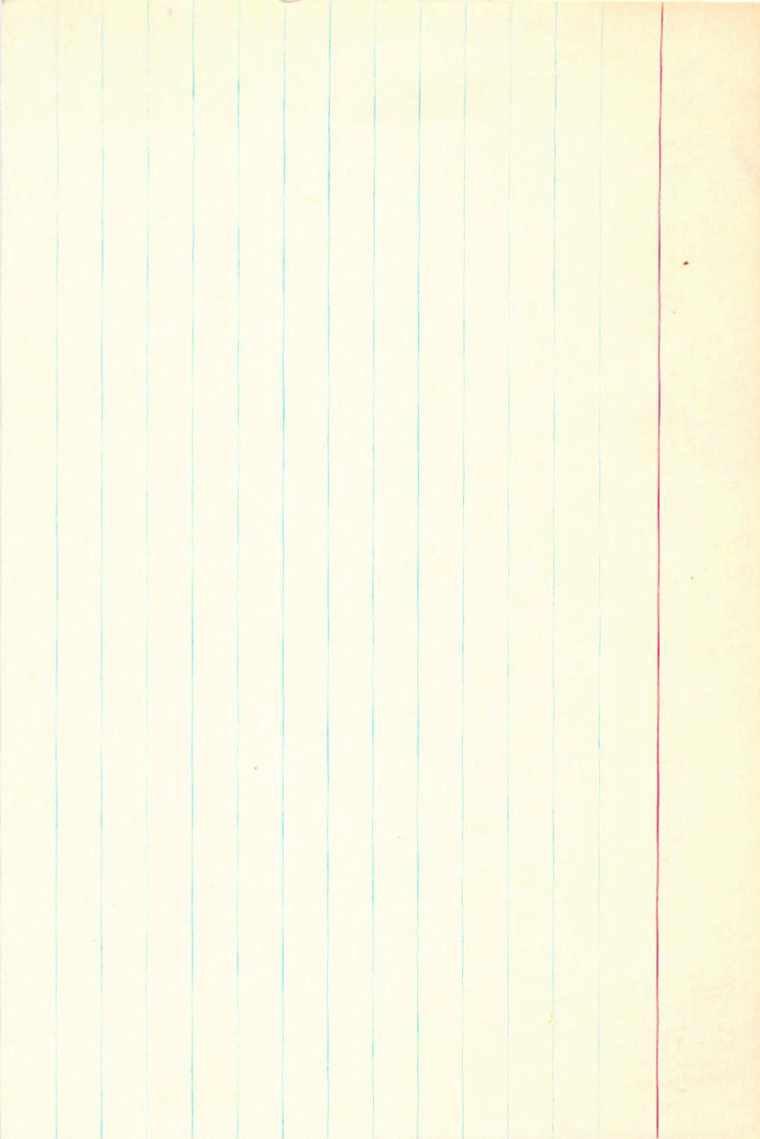
$\frac{130}{36.5}$

$-\frac{12}{52.04}$

52.00

+1.62

39.8



-10.9 d

6068

16 13.8

+ 27 35

6.13 142

032 -0706-6

1 + 5

033 -035

6050

14

107

+42

30

584 NY 15

-010 +021

2026Mi

147M2

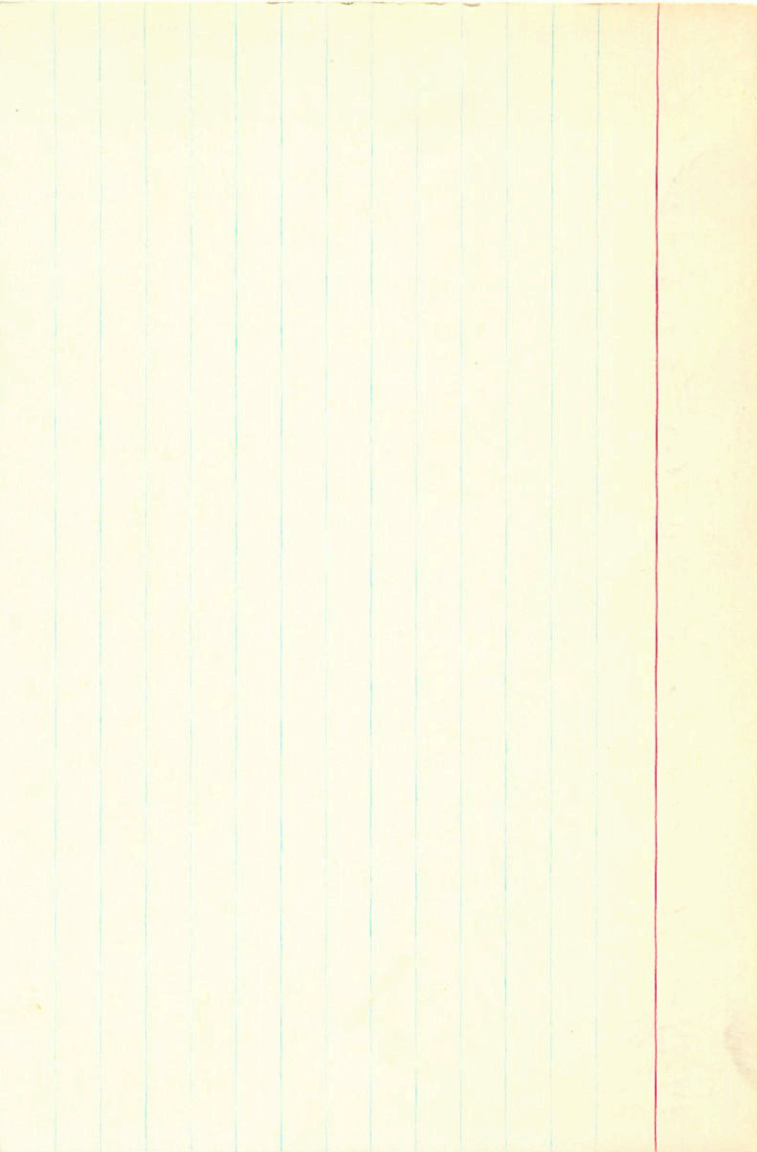
21850

9303

16 13.8 +75 20 6.5 g 1P3 -25.81

-0115⁴¹ +035⁴⁴ N30

-0118^{52.2} +032^{±1.9} C6 → N30



-000952.9 -006±2.9
-0014 -012

146434 16 14.1 -19 59 66968 -33.38

21885

9365 3.550 1401.8 -19 58 53.22 1899.6

$\frac{043}{1593}$

$\frac{+30}{52.92}$

35.879
27.620
3.499
540
544

8.47 1926.84

46.32
54.71
1.44

31.3

53.32
-0.40
46.28

53.20

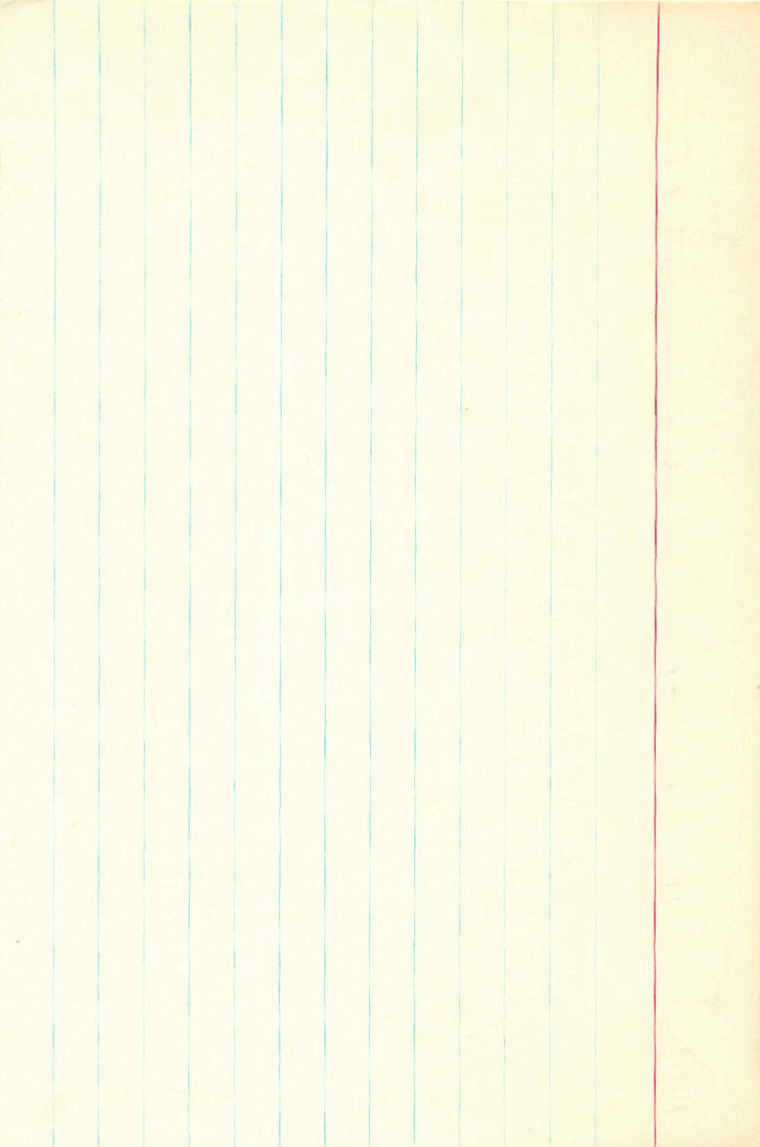
33.1

53.27 1939.44

33.5

2.559
554
554
-044

17
53.44



17 Nov

146604

16 14.1

+23

15

6.6

967

+13.7

21887

⁴⁴

-1013

⁴¹

N30

2.0

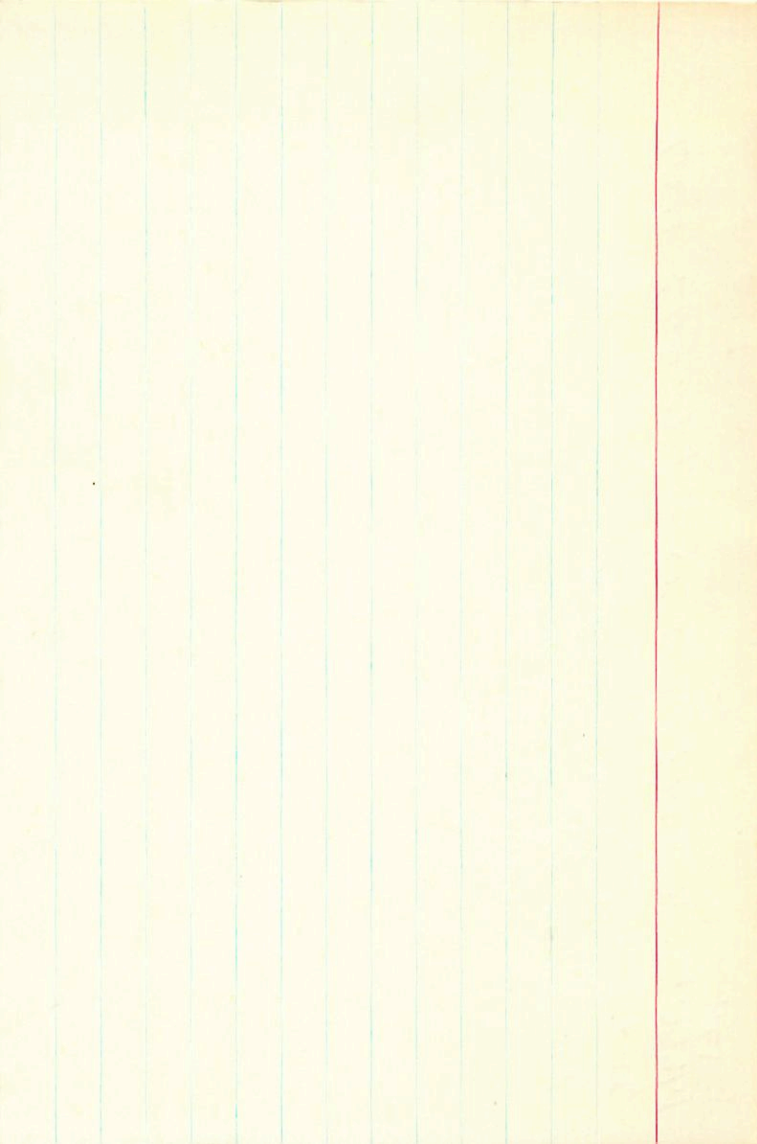
66 → 9070

9367

-013 ± 23

-014 ± 2.0

66 → 9070



$$+0025 \pm 2.2$$

$$+003 \pm 2.5 - 60 - 30$$

$$+0030$$

$$-006$$

146514

14

14.3

-03

50

6.1

dH6m -8.40

21595

9369

17.307

1402.9

-3

49

51.61

1900.5

118

1189

58.485

18.785

17.270

295

9

286

81.1

17.284

3

281

283

+094

-15

57.96

7.82 1934.56

45.60

53.42

130

52.12

+9

52.03

812

34.0

33.5

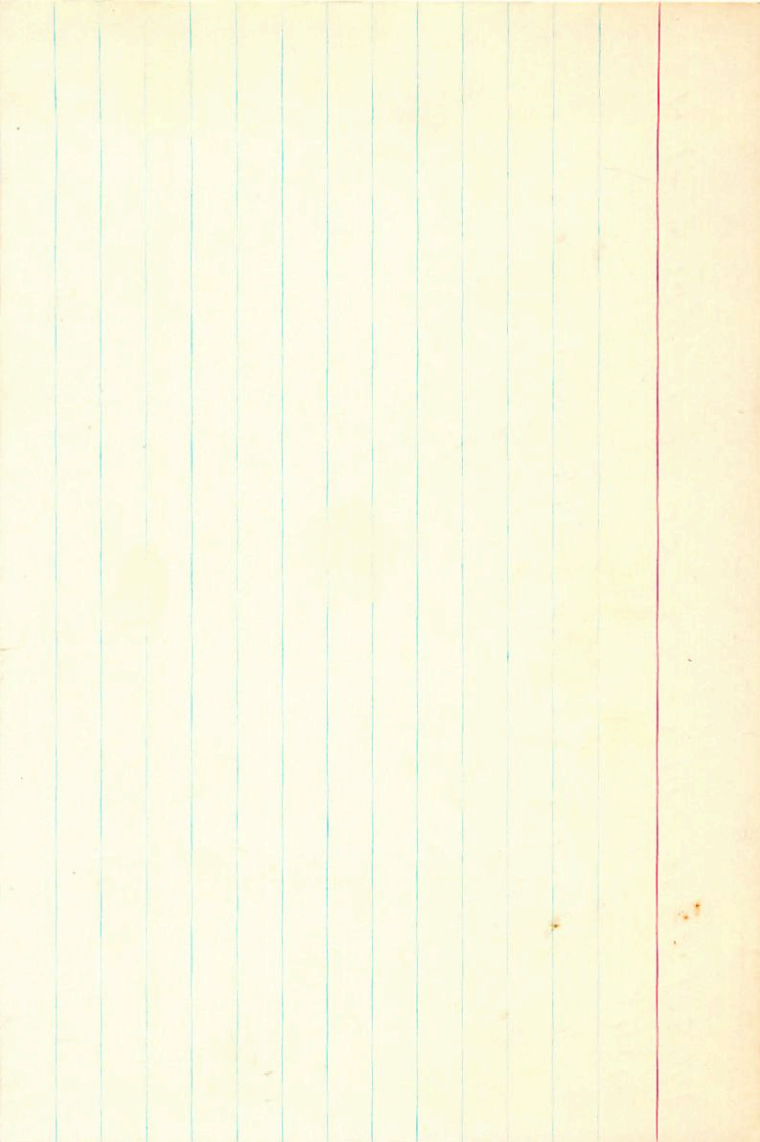
52.05 1933.54

+16

51.89

51.96

-120



146 738
60 74

16 14.7 29 16

4023.12-0154

FMS
(12)

1000 7103 / 0277
10059 - 7039 / 0050

$\theta = +19$

S Sec 16 14.7 -22 46 170 ϕ

~~880~~ + 12%

8.40

15.5 -0014 +035

4.55 -12

11.3 -10.12

-011

del min

10000
-0014
10000

+85 L

955
336
615
205
755

-005 -005 M

-002 -002 Y

-005 -002 M+Y = 114

-005 -002 M+Y 5H

-005 000 F114+5H

-005 +005 MUFWB

-002 +002

-002

+002 -004 60

0.000*

16.000*

14.700*

-22.000*

-46.000*

-0.005*

0.000*

13.100*

4168.694

85.000

0.000

-0.936

-47.238

-0.015

-0.117

-73.345

0.016

0.332

96.826

42

146775

16 16.0

21931 268 379 211 318 ①

7.68 7.59

+0048 ± 6.7 -263 ± 6.1
+0033 -258

10 60.0

C, (5)

-31.1 ± 0.6

2.167 1896.9

-28

10 12.42

1894.4

-255
1.912

1.912

29.207

32.805

2.012

.002

0.77

40.0

1.46

0.74

1.32

1.32

57.80

27.37

42.45

10.02

15.22

8.52

8.52

1935.02

-42.45

1760

8.90

11.10

1634.58

7500

37.5

43.1

21.927

27.157

2.012

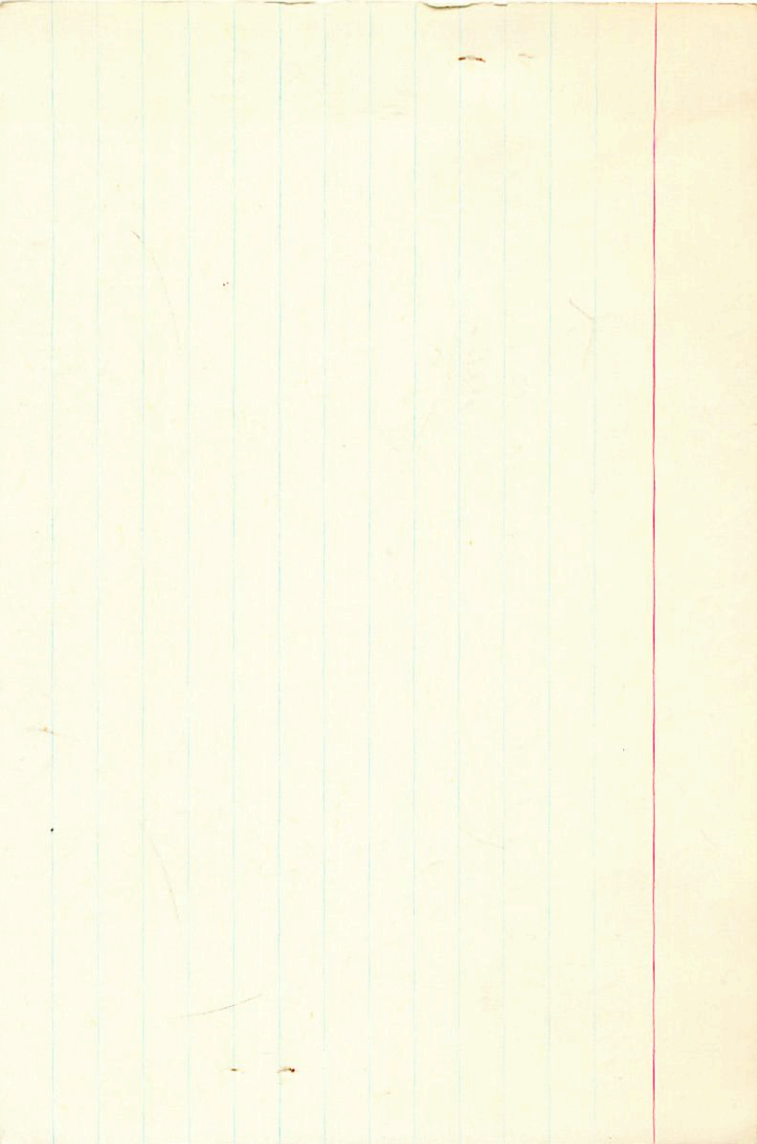
11.07

40.92

26.324

4.324

9.26



-422 58 mps 27
3 plots

6078 16 16.2 -14 45 6.06 9124

-030 +008
+ 2 +3
028 +011

5.97 +1.54 +2.00 Remain

11

43



6078.000*

16.000*
16.200*
-14.000*
-45.000*
-0.028*
0.011*
6.500*
199.526
-42.000

0.056
-0.910

49.462

-0.045
-0.006

-8.686

0.123
0.414

7.181

43

9391

16

16.4

-30

47

-8

5.53 10.45 +0.02) Landolt

7.11 10.55 10.03

2.8 po.

+0.82 +0.18

N30

+0.071 +0.30

Fl →

+0.072 +0.26

0.072	+0.28
-------	-------

-326 -004 -945

+641 +734 -224

-695 +679 +237

-1434 —

+2820 +0974

-3057 +0901

-1434 -3.3 +7.6

+3794 +9.5 +1.8

-2156 -5.4 -1.9

+4.3

+11.3

-7.3

$$55 \text{ po.} = \begin{matrix} 0 \\ +22.5 \\ -14 \end{matrix}$$

147034

14620

427360

16 178 42 76

~~187~~

~~222~~

1050-08

755

950-096

16.3

42.75

76

96

5.0

8.1

44

R.A. : 14.300
 DEC. : -42.750
 PM. R.A. : -74.000
 PM. DEC. : -94.000
 DISTANCE : 5.000
 MODULUS : 100
 RAD. VEL. : -0.100

p1 (U) : -0.315
 p2 (U) : -0.199
 p3 (U) : -0.928
 q1 : 174.052
 u : 24.921

p1 (V) : 0.839
 p2 (V) : 0.979
 p3 (V) : -0.383
 q1 : -477.784
 v : -44.838

p1 (W) : -0.702
 p2 (W) : 0.707
 p3 (W) : 0.087
 q1 : -132.997
 w : -14.399

200
 200
 200



R.A. : 16.300
DEC. : -42.750
PM. R.A. : -76.000
PM. DEC. : -76.000
DISTANCE : 5.000
MODULUS : 100
RAD. VEL. : -8.100

5.0
q1 (U) : -0.315
q2 (U) : -0.199
q3 (U) : -0.928
dU : 174.052
U : 24.921

6.5
q1 (V) : 0.639
q2 (V) : 0.679
q3 (V) : -0.363
dV : -477.764
V : -44.838

5.5
q1 (W) : -0.702
q2 (W) : 0.707
q3 (W) : 0.087
dW : -135.967
W : -14.299

44

-81.56

6090

16

17.8

+419

10

6.02 g 106

6,151

-00323 $+0324$ $\frac{1}{3}$ 50
 -00319 $+0314$

-2460 -354

-022 $+027$ GC
 -3 $+4$
 -025 $+031$

-0302
 $-026 +033$

0422
 0013
 +125
 0050
 6.52

213

81
 $8835 - 5876$
 4655 8091

25

14/9/91

16 18/2 709 50

31 1582

149231

0115 4004 P165 300

281107 2004

1324004

172

4

325

3496 9955

1308

050 000 050

4364

2000 211 58.00 00

1000 00 1000 00

500 58.00 1000 00 1000 00

46

6107

16 18.2

+68

41

7-31 100

-10.68

~~0.50~~ 1003 66

~~1.5~~

+3

1046

W	:	-10.182	
DM	:	432.474	
d3 (M)	:	0.712	
d2 (M)	:	0.885	
d1 (M)	:	-0.782	
V	:	-22.222	
q3	:	-321.222	
d3 (V)	:	0.222	
d2 (V)	:	0.442	
d1 (V)	:	0.432	
U	:	12.222	
q2	:	214.222	
d3 (U)	:	-0.312	
d2 (U)	:	0.824	
d1 (U)	:	-0.812	
AD. VELL.	:	-22.000	
MODULOS	:	22	
DISTANCE	:	1.722	
PM. DEC.	:	4.000	
PM. R.A.	:	172.000	
DEC.	:	32.822	
R.A.	:	10.222	

47

6101.000*

16.000*

18.200*

68.000*

41.000*

-0.050*

0.046*

5.000*

100.000

-10.600

0.279

0.154

26.253

-0.132

0.765

-21.292

0.093

0.626

47

2.631

73711

147284

-24012671

9412

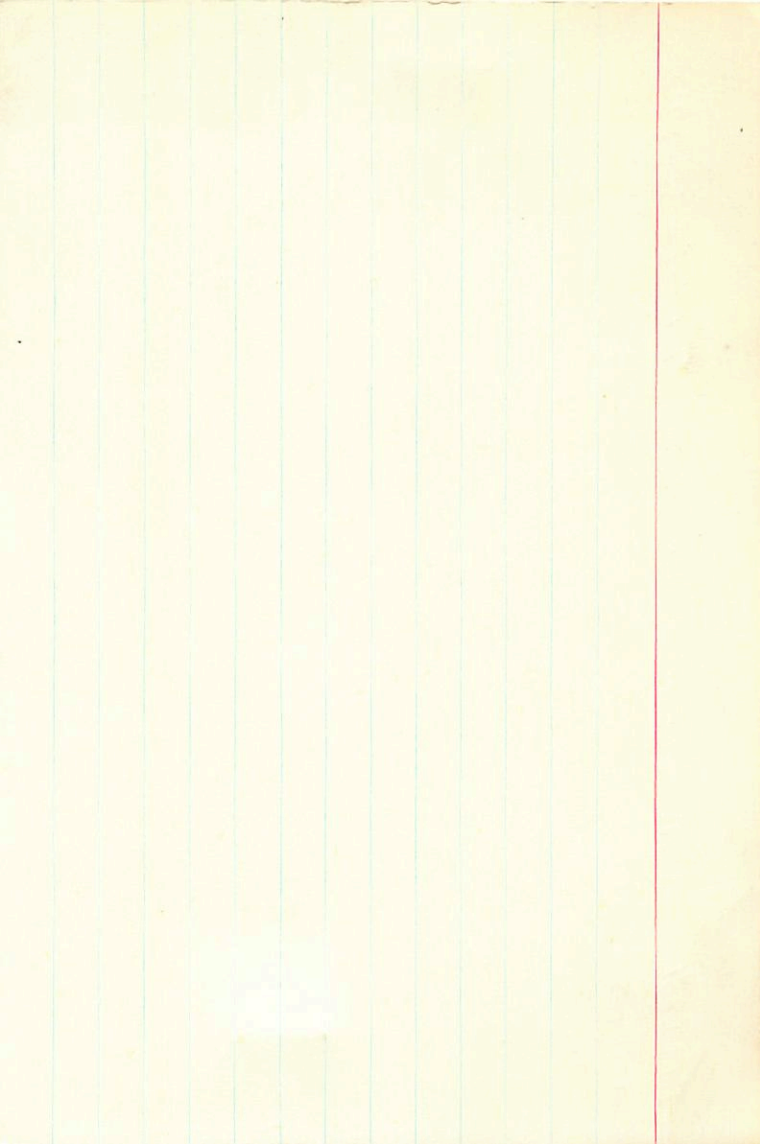
16 18.9 -24 52

9.1 d63-23c

^{4w}

$$-109 \pm 10 - 014 \pm 8 \text{ CR}$$

$$-176 \pm 12 - 092 \pm 12 \text{ Y}$$



73711

147284

-2402671

9412

16 18.9 -24 52 9.1 d63-236

400

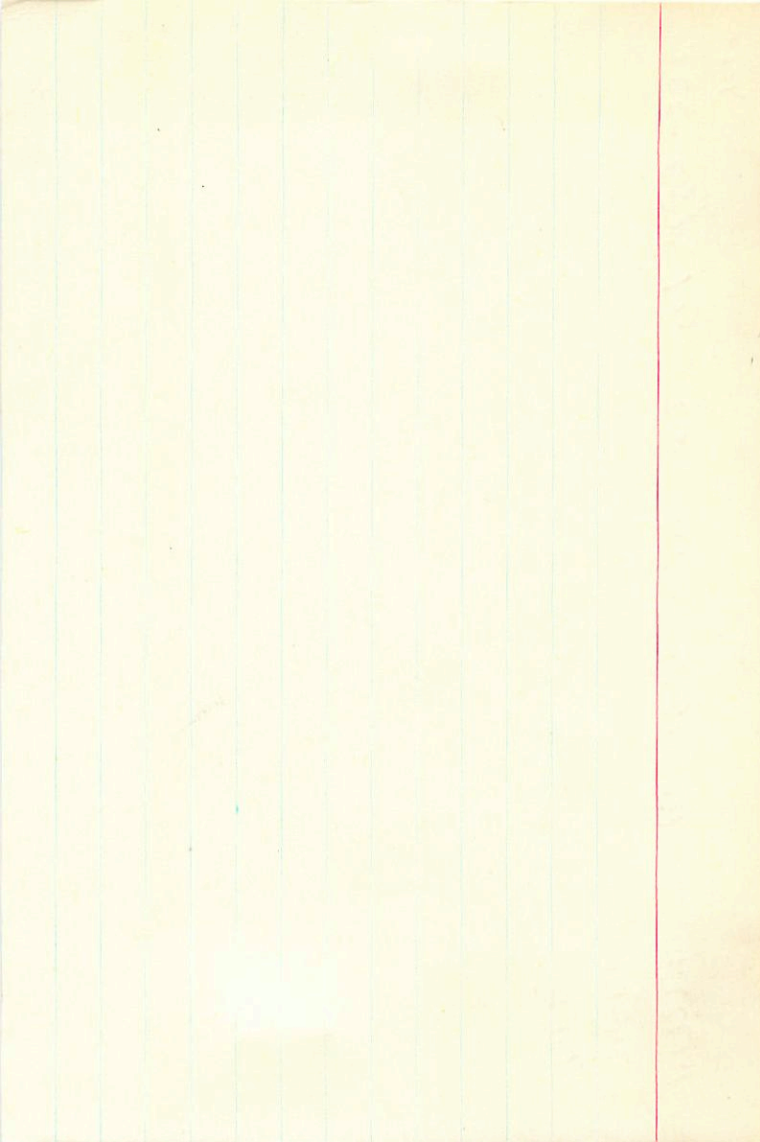
-11 -01

8.80 +68 (1.80) step
00

-109 ± 10 -014 ± 8 CR

-176 ± 12
-6
-182

-092 ± 12 Y
-7
-099



147487

14

19.2

+27

29

8.7

60

-58.26

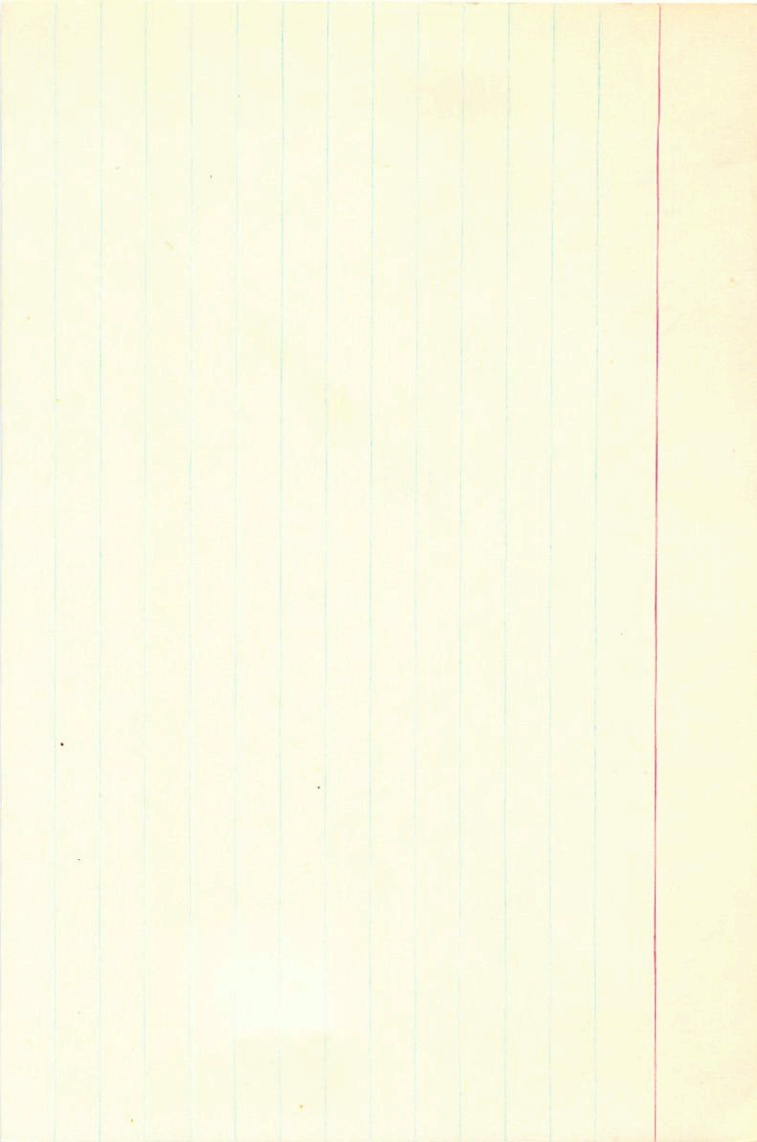
C2187

GoE DD

9414

+021 +163 Y

benefit



5757,000*
15,000*
32,700*
-77,000*
-45,000*
-0,000*
-0,000*
-0,133*
6,500*
199,526
13,000
0,544
-0,629
100,362
-0,357
-0,714
-80,513
-0,285
-0,307
-60,783

8

8

R.A. : 10.200
 DEC : 02.820
 M. R.A. : 102.000
 M. DEC : 4.000
 DISTANCE : 1.250
 MODULES : 23
 AD. VELL. : -28.000

P1 (U) : 0.315
 P2 (U) : 0.394
 P3 (U) : 0.315
 BU : 214.290
 U : 13.275

P1 (U) : 0.394
 P2 (U) : 0.447
 P3 (U) : 0.394
 BU : 381.024
 U : 138.290

P1 (M) : 0.394
 P2 (M) : 0.447
 P3 (M) : 0.394
 BU : 458.474
 U : 161.103

R.A. : 16.300
DEC. : 39.850
PM. R.A. : -172.000
PM. DEC. : 4.000
DISTANCE : 1.750
MODULUS : 22
AD. VEL. : -28.000

q1 (U) : -0.315
q2 (U) : 0.894
q3 (U) : -0.317
dU : 214.290
U : 13.675

q1 (V) : 0.639
q2 (V) : 0.447
q3 (V) : 0.626
dV : -391.234
V : -26.296

45
q1 (W) : -0.702
q2 (W) : 0.005
q3 (W) : 0.712
dW : 439.474
W : -10.102