Ruma 358 41.2 +C9 02 +84C

GC14753 -0078 ±33 -027 ±3.6

7.912 1800.7 -0075 -035 19.45 1803.1 may 4.83

-0066 -027

-037 -035

may 3-4 = +1.50 2.3 = +0.95

5.22 +1.50

8.0 = 400 or 7.5 = 316 pm

-843 -047 +536	+1414 +0060	+1474 +590	+77	+18.2
+255 +843 +474	-0428 -1079	-1507 -603	-44	+16.1
+474 -536 +649	-0755 +0686	-0109 -44	+18	+22.4

+1478 +0078	+1566	+71	+65
-0447 -1348	-1845	-47	-39
-0831 +0589	+0058	+24	+24

B4 IV

4205 10 42.3 −63 42 B5 V

93154
1477A

4.84-14-62 C

2750

−071 +089 +372 (25) 2.661 (9)

178

(89)

(550)

±3.0

−021 +015 +255 +00.30 −00.20 +014 +4.10 +6

−0.023 +0.023

18.182 19.090 (19.89) 53.97 19.067 V0 4.66 (7.25)

18.041 17.976 53.81 53.46 19.541.24 −20

18.064 18.002 −09 −2.35 −66

53.76 7.00 M_V = −2.6

-0038　　-0036
-0020　　+0015

-0020±4.3　　+003±4.0

18.184 99　　53.84 6.7

18.044　　41.04　　53.79

18.002　　45.20　　54.06

-0029?　　+0002
-0031?　　+0044

-0200

-0179 +0085

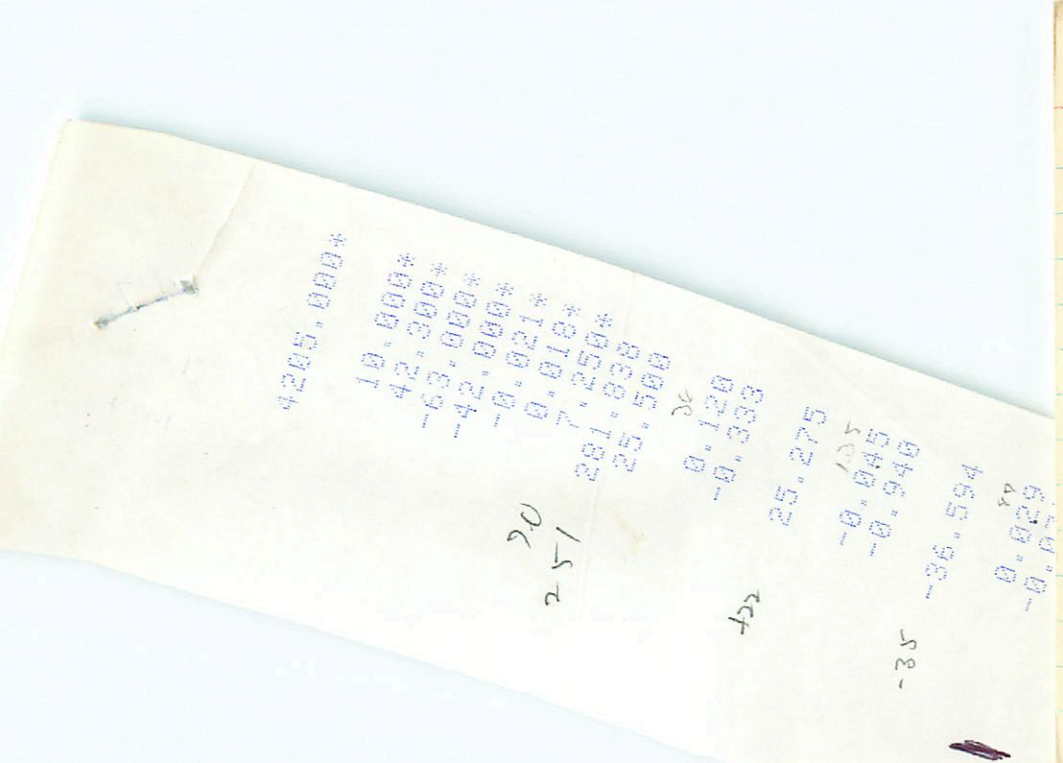
TX Uma 10 42.4 +45 50 -13.2 e

+020 (001 G12)

.10015 -002
+5 +3
+0117 +0101 GO →
+018

New Orbit

129 Orbit



3-32 -543 707 707 +020 +001 -13.2 001 -9.3 004

-007 0 -019 -001 -025 -050 -13.2 +12.4 -4.4 006
-006 -016 -024 -076 +7.7 -5.9 -8.3

+9.2 -15.3 -8.5 008 +5.4 -6.6 -5.3 004

~~+3.1~~ ~~002~~

+9.6 -13.4 -8.9 01

-15.2 +4.0 -10.4

011

+11.0 -12.6 -5.0
-14.3 +4.1 -11.7
+9.3 -14.4 -8.9 009

+42°02'45"
§3044 10 42.5 +41 34 7.13 -10

-31 (4)

-0018 -057
-0045 -047

10 41 3.92
1 26.870
42 30.790
-106
.684
.684
.106

19250

-0032 -052
+ 2 + 3
-0030 -049
-033

42 10.1
7 51.70
34 18.40
.50
17.90
17.86
17.43
.04
16.86 1952.25
-28
16.58
2.74
-1.28

30.555
7
562
1968.5
-122

LFT 8554 10 43.9 -25 05 NOE +82.0

-25 49 26

9.56 +0.64 +0.02

-0.038 -0.249

-848	528	-044	+1527	-6232	-4705	-3.6
268	355	-896	-0483	-4190	-4623	-73.5
457	771	447	-0823	-9100	-5923	+24.2

93270 10 474 45 43 -0.8

313 284 3.90
320 284

-0168 -005 (H)

-104 -008

9964 -9915 | 0996
-0652 -3360 | -0302

R.A.	:	10.750
DEC.	:	65.700
PM. R.A.	:	0.000
PM. DEC.	:	0.000
DISTANCE	:	0.000
MODULUS	:	10
RAD. VEL.	:	0.000

q1 (U)	:	-0.848
q2 (U)	:	0.001
q3 (U)	:	0.530
dU	:	0.000
U	:	0.000

q1 (V)	:	0.268
q2 (V)	:	0.864
q3 (V)	:	0.427
dV	:	0.000
V	:	0.000

q1 (W)	:	0.457
q2 (W)	:	-0.504
q3 (W)	:	0.733
dW	:	0.000
W	:	0.000

-0029 ±5.6 -015 ±5.1 +32.46
-0030 +0027
93540 10 44.5 -64 15 5.5 B8m
-0034 +0033
14837
6703 27.576 1911.2 -64 15 4.10 1908.8
113 +62
4219 .689 3.48 ~~4.10~~
70.00
27.575 27466 3.13 3.30 1941.47
23 +26 -25 -9
598 492 3.28 3.39

-34 104 483 1723
(R) 490
676

-0032 +0030
-0038 +0072
-0221 ~~+0043~~
-0200 +0113

$\frac{1}{2}$ 0.5 x 3.5 = 1.75 sq. in. 4 in.

0.5 in.

1 in.

-0.25

-0.24

-0.01

0.99

$\frac{3}{8}$ 0.375

$\frac{5}{8}$ 0.625

$\frac{7}{8}$ 0.875

$\frac{1}{16}$ 0.0625

$\frac{3}{16}$ 0.1875

$\frac{5}{16}$ 0.3125

$\frac{7}{16}$ 0.4375

$\frac{9}{16}$ 0.5625

$\frac{11}{16}$ 0.6875

$\frac{13}{16}$ 0.8125

$\frac{15}{16}$ 0.9375

1 1.0000

-0004 ± 4.7 +002 ± 4.4 +70 Quiet

93549 10 44.7 -64 00 5.4 B8 +21.36

14844 +036 12 5.22 -0.09 +0016

6707

-18
+6
+10

4220 40.085 1909.1 -63 59 58.28 1906.4

16 -09

.101 58.37

27.44

40.003 -00258 0066 57.85 1542.30

23 -0027 +0112 -9

026 14.3 57.94 1672

112

40.08 56 33.2 58.1 1946.3

045 -0179 -66

-024 +0112 69.42 58.02 -0158 58.76

34907 26 58.27 58.36

633

9501 ~~9887~~

3120 1564

4222 10 45.⊘ -64 07 4.84 BTB

93607
14450
-0076 +005
-018 +005
-0026 -006
+12 (04)
-00263

9502 -9877
117
1566
-0029
-0027 ±000
-010
-009
+002 ±43

1.670 1410.0 -0023
105
578

10.29 1405.5
-09
10.38

+0014

1.643 1.615 10.82 10.63 1542.04
+023 24 -13 -09
1.686 641 11.07 10.72
92 +1.34
11.06

-0083 ±4.2 -044 ±3.0 +30.56

-0078 -036

93527 10 45.1 -15 22 7.4 dfs

14851 2.98 4.25 7.66 +50 (1.57) s/sm +105

6712/13 3.96 5.02 8.88 +56 (1.60) s/sh ~~26~~ +135

7.70 +0.51 (+1.54) -0.09 1m18" our

8.952 1906.5 -15 21 43.35 1899.5

+2.22

41.13

42.51

-1.38

43.42 1941.45

+24

43.18

374

48.68 1934.58 7603

53.78 38.0

42.70 404 38.5

+30

42.56

-.19

~~30~~ ~~250~~

9.311

9.036 10819

11

047

55.202 9.910

13.955 9.401

9.05 31.5

15

072

13

095

132

066

-.245

6712 7.52 +0.52 −0.06 (1.54)
7.54 +0.54 −0.03 1 74"
× 7.46 +0.52 −0.04 (1.54)
S = 0.09 S = .12?

6713 8.95 +0.55 −0.03 (1.47)
8.83 +0.58 0.00 1 74"
× 8.40? +0.55 − 0.0
S = 0.09

105 346 −170 +037 CA 113
−162 +034 CR 28
−162 +024 GC
9375T 171 +013 MW 10 46.4 −48 05 +8 55 F2 Var −11 to +32

X 25.9 −170 +028
+6 +4
GC14882 −164 +032 →

7.05 +0.43 +002 3RS
−0162 ± 9.5 +024 ± 8.0
+013
11.39 18960
−1.30
12.69

1534
−3.48
2.54
2.54

25.248 1899.2 −0170 PAM
823
96.121
−0180 023
−150 +033 +020

−0154 +0236
−154
→ −152 +028

1424.08

11C(7)

20.644
4.963
25.607

1433 Sly
−0158 +019
−0042
−0165 +027 CA

16.39
54.78
2.17
12.18
8
12.26

9911 −9197
1435 3924

1589
0268

395cy

93704 10 46.5 −08 50 7.2 gG5 −12.16

14883

6722 27.490 1903.6 −8 50 6.09 1896.0

−0004 ±3.0 −027 ±2.4

−0007 −029

+0.18

.508

+1.46

4.63

12.802

15.180

27.482

.006

.488

.493

484

−024

34.3

27.467

+8

475

10.66 1834.34

−4.68

5.34

−41

5.75

+18

57

6.32 1941.30

+22

6.10

11.67

594 −1.21

75.74

37.9

41.9

G58-23

+210 2244

10 47.2 +20 46

-3.23
-2.13
-2.0 Sunday

9.56 +0.60 -0.03 21C +16

4.50

+11.4 (4) N2 (2)

-0256 -094 ML

GO

-.256 -094

11.9 (3)

4238 10 47.6 -33 48 48 Var.

9905

-0020 -001 PP

-0038 +005 Stag

-0089b +0041

-0494 9621 – 9935 0457

-047 +010 2725 3315 0592

434ma

−0073 ±2.7 −002 ±1.8
−0075 −003

93859 10 48.1 +56 51 5.8 g N1 +1488

14910

6731 6.567 1891.7 +56 50 50.80 1892.7

426
7393

34.33
33.00 8
7.33
−201
137 21095
145
6.974 7.032
975 −.361

6.974
975

48.4

+11
50.91

146.7 1528.0
55.62
57.08 22.9
57
50.50 12040
50.84 1945.26 40.1
−13 47.4
50.71
51.13 1947.14
−12
51.01 50.76
−15

-19.4 (9) -17C

4286 10 483 +59 36 5.52 g/cc

-030 -057 OL
+1 +1
-029 -056


4235.000*
10.000*
40.300*
59.000*
36.000*
-0.029*
-0.056*
5.000*
100.000
-17.000
0.099
0.521
1.041

94084
GC14937
W6737

10 49.5 +52 46 gK0-3 ? SR

6.44 +1.11 +1.01 K2III R -6.6 V(4)
-0.1 W(4)

W(+0.6)

-0069[23] -056[24] N30
-0076±2.2 -057±2.0 GC→N30

-53

12

+28 -44 -8 .008
+33 -50 -8 .007

-071 -059 GC
-063 -056 N30
-067 -058

303-953 798603 -067-058 -7.0-046-6-166
2#
020 014 064 044-114 370 -4.2 +4-1
-15 +61-34 006
+37-60-13

94367 10 50.5 −56 58 5.6 BG −22.5 8

14440
6744

12

−0007 +001 N30
+0001 ±5.8 0±3.7

+8.56

HR4245 10 50.0 +00 04

WG741

GC14552 2.388 15026

-0007 ±5.8 -022±5.1

-0001 -027 53.08 15016

+1 +2 2C

000 -025

250

-852 484 199	0 -0523	-14.3 +1.7	-13
281 745 -605	0 -0883	-22.1 -5.1	-27
441 460 771	0 -0514	-13.6 +6.6	-7

HD 94263 10 50.6 +49 29 7.81 +12

49 6.22
128.72
35.00 144
858
34.85 5
853

1925.2
+0022 +002 Gn
+0013 +004 nw
+0007 Y
+0024 +005
+624 +005

1948.4
57.53
50.88
47
50.41
+03
50.44

34.840
14
844
184

34.870
+20
890

+037

51.66
40
51.40

50.45 1952.64
40
50.55 Gdark
+.11

44nma -.0079 ± 2.3 -.015 ± 1.7
-.0076 -.015

94247 10 50.6 +54 51 5.4 GK2 +1.28
14962
6746 33.511 1892.5 +54 51 4.98 1893.5

41.5
.926
2.55
31.34
33.196
.716
.720
1821
607
319
33.554
.547
33.550
.551
42.1

85
5.83
62.9
5230
5.50
5.99
5.00
5.54
-.01
5.53
5.27 1947.14
-.11
5.41
1926.75
44
1544.92
5.15
-.68
11.881
396
46.1

-0114 ± 6.4 -272 ± 5.9
-0104 -270

94340 10 50.6 -20 21 7.1 dG3 -13.18

14963 7.03 +0.62 +1.71 , 24"1

6747 38.605 1903.1 -20 21 29.45 1900.2

535 13.55

39 40 7.01 406 192 384 (1) 15.90

397 203

25.693 27.25

3 9 (7) 13.090 57.55 1934.32

38.783 Co 335 24.80

+ 024 -36

807 25.1 7 65

+ 8 +30 33.5

815 820 24.88 33.6

38.921 -.320 30.7 1933.33

4 25.33

825 +28

25.05

24.96 -9.06

-0072±5.9 -012±7.5

94170 10 51.3 +77 21 20 GM2 -60.0 δ

-0107 +012

14977
6755

15.524 1901.5 +77 21 1323 1905.8

+77 04 12

349 53
873 14.26

15.426 -0106 +2 14.82 1944.55
-13 GAZ 2
413 14.84

+40° 2384

94479 10 52.1 +40 04

43.26
25.222
8.48
- 98
.384
- 1
383

+0005 +003
+0015 -019
1425.4

+0017 -016
+018

85.5
58.40
27.10
- 44
26.66
26.58

8.416
+ 8
424
+041

26.30 1952.17
- 22
26.08
-.58

007 2.750 243 851 -161 1.2

4254 10 520 725 45 Am

94480 (6.15) 6.20 +285 +17 2 [illegible] (NO)

14999

+260.147 184 188 888 (2) SPL

2.750 (4) [illegible]

\-0040 -002

59.453 3.8 -0041 -003 26.51 585

185 -00405 -002.5 10

.638 -00410 -0013 2661

\-0557

=054+003 0535 9160 9966 0536

\-0031 406 -0824 -0074

\-2.4 -580

0061 0061

6.07 6.07

59.343 (71.76) 26.26

+14 +11

357 26.37

-27.4 b

4256 10 52.2 434 18 5.22 g 67

-059 -056 GL
0 43
-059 -053

4

94601/2

5410

MW6763 -

70 52.9 +25 01 +3.06

-0054 -017 W30

-0054 -017 GL→W30

38M.

-854 +358 +375	+2967 -0288	+2679 +...
+287 +924 -231	-0957 -0749	-...
+432 +084 +897	-1500 -0072	