

-38 -48

114692 13 09.8 -34 29 7.6 dF7 +1.38 W4

-3408720
7853

7.78 + 0.51 (1.61)
7.96 + 53

933
895

4.9

10^m 121 31¹¹ CPM 9.76
+1.36

(⁵ -0.186 -1.230) -2.50 CB
4.10
-226.75 -26.75 KR

9.82 + 0.775 + 0.24 (2)
9.64 + 0.875 (2)

-1.51
+4
-1.90
-2.75
+0
-2.75

904
865
491
390

-0.185 -265 F164 X+6
-229 -265

-225 -261

+1.3

4.45

56



114692.000*

13.000*

9.800*

-34.000*

-29.000*

-0.229*

-0.265*

3.900*

60.256

1.300

14

1900

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114692.000*

13.000*

9.800*

-34.000*

-29.000*

-0.228*

-0.261*

4.000*

63.096

1.300

0.613

-0.542

37.977

-1.149

-0.698

114710

13 05.5 - 728 08 60 E

HR4583

GUR874

Y3 km

4.24 + 0.58 + 0.85

414 323 165 362-4

372 150 336 50 2.609 ^{cut}

~~367~~ 179 (349)

260 +10

262-15

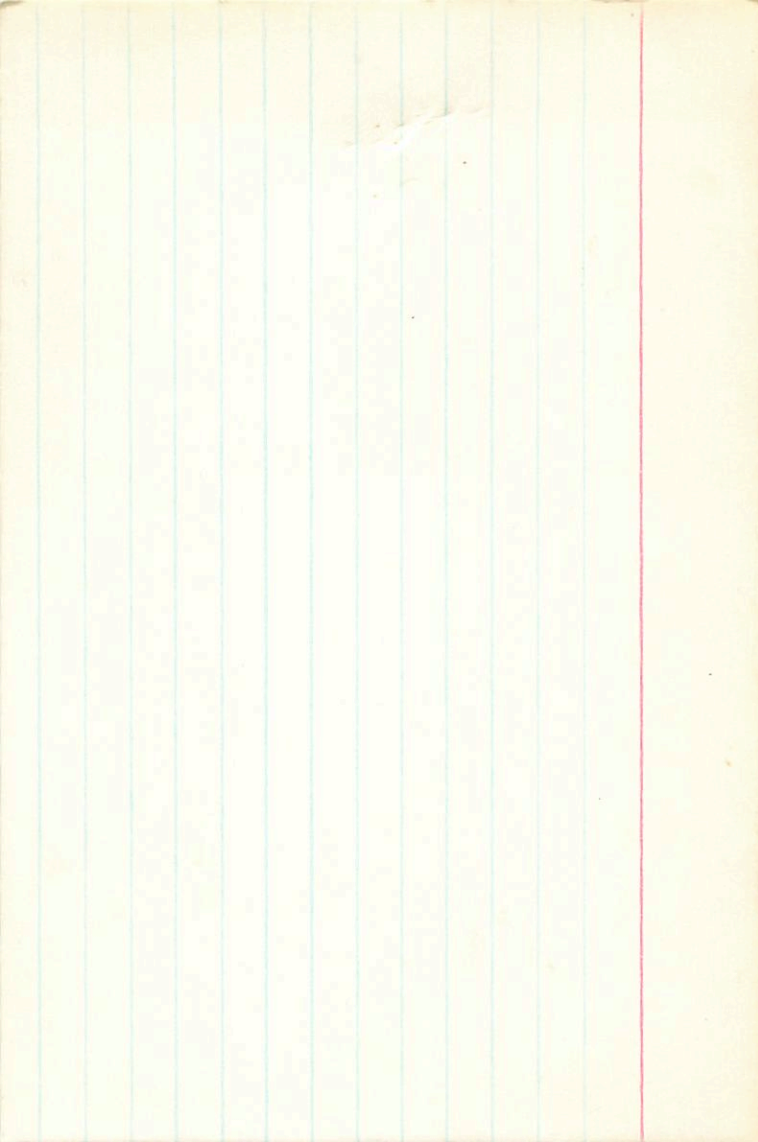
F1A5
F1A3-
11015/1483

101
R0 350

+447

19
115

1100 983



Blow

114710 13 09.5 +28 08 4.3 d60 +6.1a

17874
7850

76
-0604 +879 N30
-0604 ± 1.0 +874 ± 1.0 cc → 7870

12065

-06049 +8788
-06044 +8808

-7997
+6.1
-798 +885
-0.4

1000

1000



1900 1901 1902

1903 1904

1905 1906

1907 1908

1909 1910

1911 1912

1913 1914

1915 1916

1917 1918

1919 1920

1921 1922

1923 1924

1925 1926

1927 1928

1929 1930

1931 1932

1933 1934

1935 1936

1937 1938

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Handwritten marks and scribbles at the bottom right.

1114710.000*

13.000*

9.500*

28.000*

8.000*

-0.798*

0.885*

-0.400*

7.54

8.318

6.100

5.506

-0.058

44.1

45.439

1.236

0.055

+103

10.619

0.253

0.997

+8.1

8.187

115080 13 12.3 -11 06 +7.7

-10.3635

AND 7.02 424 214 328

COB₀ 44.25
6
4.84

416 718
422 216

Conductor

-0.799 -312 -209
-312
2.15

-WUS-312

+7.7

88

Handwritten notes on a piece of paper, including a date and a list of items.

12/12/12

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Handwritten notes on a piece of paper, including a date and a list of items.

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97. ...

98. ...

99. ...

100. ...

R.A.
DEC.

..
..
..

13.200
-11.100
-209.000
000

594mi
115383

13 14.3 109 41

-271 21
5.2 dF8 -2592

17975

7894

75 ± 6

(31)

²²
-0230 +0187 30
-0228 ± 1.6 +190 ± 1.5 Q.L. → N30

-264 F
Coulter

-0227 189

-0229 +01885 NSU +
+01870

-336 189

370 190 344

-338⁶
-337 +191 -25.9
0.6

376 191 343 254 SK

115383.000*

13.000*

14.300*

9.000*

41.000*

-0.337*

0.191*

0.600*

16.000

13.183

~~25.900~~

26.5

1.771

-0.255

18.000

30.10

~~29.958~~

-0.219

-0.194

11.4

2.24
2.134

0.433

0.947

9

17.4

19.35

~~18.831~~

80363

115383

13 143

+9 41

F84

HR5011

5.20 +60 +10 C

RL07975

3.22 +59 +09 4E99C

5.21 +555 +095 E+C

596in

✓

.376

.191

.383

SAC

2.599 B

✓ 519

373

384

184

384

12

Out

516

366

192

1040

2290

+4885

N10

415

34

260

192

384

-02283

+1972

1145

3725

+50

308

384

192

1145

3725

-326

+191

+50

308

384

192

1145

3725

-326

+191

+50

308

384

192

1145

3725

-326

+191

+50

308

384

192

1145

3725

-326

+191

1767 -211 4433

060 +292 +2.2 -18.8

3377 -326 +191

-25.56

60

5228

585

0880

2050

2400

2380

2380

2380

333

333

333

1

3011.000*

13.000*

14.300*

9.000*

41.000*

-3.386*

3.191*

1.400*

19.055

-25.900

1.767

-3.255

43.285

-3.216

-3.194

3.961

3.432

3.947

10

A058841 0420-259

+0434

-272 ± 0.4

-272

11.0

115464

13

14.4 +17

6.6 dm3 +5.51 x2

6.6 dm3 +5.51 x2

17981

Δm = 3.06

4.57 532 422 294

10.2 dm2

19.08 x1
+6.7

7895

6.52 + 0.92

6.52 + 0.92

1325

+173

GUB-6

21.825

900.5

+17 17

2.34 1900.2

1325

-2.178

63M 403874 -2685

+13.55

15.94

658

67±8

19.647

655

647 -259

6.44 1934.8

-264

21.114

671-259

37.0

6.47

7502

640

12.5

603

5.09 1940.22

7502

37.3

-265

193.12

5.09

5.10

11.576

15.96

4.9

193.12

5.09

5.10

11.576

15.96

10.0

193.12

5.09

5.10

11.576

15.96

4.9

193.12

5.09

5.10

11.576

15.96

10.0

193.12

5.09

5.10

11.576

15.96

4.9

193.12

5.09

5.10

11.576

15.96

4604

61

AD. VEL. : 2.780
 MODULES : 11
 DISTANCE : 8.808
 M. DEC. : -229.900
 M. R. A. : 041.600
 DEC. : 17.300
 R. A. : 13.230

U :
 UB : N-3057.297
 (U) : -0.185
 (U) : 0.224
 (U) : 0.885

V :
 VB : 283.305
 (V) : -0.885
 (V) : 0.807
 (V) : 0.285

W :
 WB : -0.205
 (W) : 0.473
 (W) : 0.177
 (W) : -0.180

R.A. : 13.250
 DEC. : 17.300
 M. R.A. : 641.000
 M. DEC. : -259.000
 DISTANCE : 0.300
 MODULUS : 11
 AD. VEL. : 5.700
 6.5

q1 (U) : -0.805
 q2 (U) : 0.564
 q3 (U) : -0.185
 dU : % -3027.297
 U : -35.800

q1 (V) : 0.585
 q2 (V) : 0.807
 q3 (V) : -0.086
 dV : 706.267
 V : 7.550

q1 (W) : -0.100
 q2 (W) : 0.177
 q3 (W) : 0.979
 dW : -508.907
 W : -0.262

7012

6114

115617 13 15.8 -18 02 20.6 8.5a 244
 0218007 4.74 +0.20 +0.26 6.62 -8.0L (5)
 W7907 51 -1020 N30 5 = -01 -10.4W (3)

84
 -8.1

43039 4.73 +0.71 +4.51 5.20
 -170380 473 257 320
 378 319 474 484 256 321 2.582 6.6hm -8.1

5019
 +25 -49 -32 .114 -1.075 -1.076
 +21 -43 -29 .132 -1.073 -1.070 N30

-0748 70034 W 800FAS
 -1126
 -1064

131M(7)
 1257(10) -0.61
 866(7) -8.1
 115±6

10715 N304 -1071-1064
 -107540 -1072

10756 -8.5
 -1075-1068 -0.35

62

VEL. :
DULUS :
STANCE :
DEC. :
R.A. :
DEC. :
R.A. :
-13.250
-13.250
-1124.808
-1384.808
-8.210

PT. (U) :
P2 (U) :
P3 (U) :
-8.202
-8.252
-8.472
-2303.742
-13.250

R.A. : 13.250
DEC. : -18.050
R.A. : % -1126.000
DEC. : % -1064.000
DISTANCE : -0.610
MODULUS : 8
VEL. : -8.100

A1 (U) : -0.805
A2 (U) : 0.353
A3 (U) : -0.477
DU : 2303.442
21.256

116012
GC18051
W7930
T3051
+Y⁰2729

13 18.2 +0.4 23 dK5 -23.5 (W15)
8.60 +0.94 +0.75 K2V R²⁷

30233

S = -03
-30.4 (2)

13.3
+44
+505
+150
0.33
-270

+71 -1.5 -4 .037

-510 +174 G-C

8.58 5.45 0.03 (286) 2.542 (3)
8.58 5.41 4.60 (286) (1)

8.62 5.33 4.39 4.40
1106 15.4
CO

~0337 204

304 204

25M(8)
234(10)
02557

505
204
2164
-270

077557 -0341511.3

-0335

+174511.3

+206

13.394

1.494

14.888

13.857

1.27
1884

58.34
15.950

14.290

3.02
2
2

14.030
060

1506.2

+4

28

24.574

1506.1

24.8

EQ

12.169

14.056
832

21.90

28.03
-14
1536.38

27.89

1925.2

79.0

53.12

25.48

26.317
19

2099
2000
5.10

26.1

27.29

1531.2

92.78

30.9

24.8

R.A. : 13.300
DEC. : 4.400
R.A. : -505.000
DEC. : 204.000
TANCE : 2.640
DULUS : 34
VEL. : -27.000

q1 (U) : -0.800
q2 (U) : 0.509
q3 (U) : -0.316
dU : 2402.606
U : 89.578

q1 (V) : 0.589
q2 (V) : 0.766
q3 (V) : -0.256
dV : -664.529
V : -15.499

q1 (W) : -0.112
q2 (W) : 0.391
q3 (W) : 0.913
dW : 645.737
W : -2.883

63

116459

13 16.7 +85 01

+6522

7.29 329 165 099 ①

7.27 327 159

(02)

2374 12.85
15

0948 018

310546

141

31

325
+10.8

64

R.A.	:	13.250
DEC.	:	85.000
M. R.A.	:	%-1411.000
M. DEC.	:	18.000
ISTANCE	:	3.280
MODULUS	:	45
	:	10.800

117105

13 25.7 -27 08 1-8

+4.4288

1820966 (calculated)

~~1188 2AD~~
~~224270~~

44.702 1596.8

1.059
961

146 (m)

45.

7.20 10.58 +0.04 205

+203

-0199 ± 7.5 +193 ± 6.7

-0173

11.82 1893.6

~~-0188~~ +202 → 16.89

2271

-2249 +

920324 169 318 ①

22.116

22.9928

45.103

111

+16

117

26.925

47.55

4.47

1

14.48

-2

14.50

1934.00

11.66

+4.91

.A. : 13.400
EC. : -27.150
R.A. : -252.000
DEC. : 270.000
ANCE : 2.290
ULUS : 29
VEL. : 4.400

(U) : -0.791
(U) : 0.259
(U) : -0.555
dU : 1171.966
U : 31.204

(V) : 0.597
(V) : 0.526
(V) : -0.605
dV : 38.997
V : -1.545

(W) : -0.135
(W) : 0.810
(W) : 0.571
dW : 1180.062

65

65

117126

13 25.7

-00 35

261

0.2w(8)

GC18208

20 (46)

W7588

7.6

6.6 (debit) (18)

Y3073

GM-84

7.

-002681

7.44 414 206 353 2585 (4)

744 413 205 346 (2)

743 417 308 342 (1)

410 206

345

+218

-412 6c

-2 -86 -49

.020

70150-405 (Cant. by)

225-405

657
Co 325 325
7443

225
-405
225
-66

18 ± .0

10145 - 2.9
10145
- 412.2.9
- 414

43.887
- 244
1898.7

- 0
34 3388 18940

~~43.193~~

23.07
101.81

26.730

40.46 1534.17 1.81

16.912

47.48
27.94 53 35.9
41.9

43.642
20
662
0

37.2

128
28.14

12.435

27.41
27.46
1037.64 17.33

30.775

21.92

43.713

43.682
43.684
0.539

2

- 12
901

28.66
28.66
- 25
28.82

12.100
10.000
225.000
185.000
2.000
M
1.000
8.791
8.490

R.A.
DEC
R.A.
DEC
THAN
DULUS
VEL
CUD

R.A. :	13.400
DEC. :	-0.600
R.A. :	225.000
DEC. :	-405.000
TANCE :	2.690
DULUS :	35
VEL. :	-6.600

1 (U) :	-0.791
	0.480

117939

13

31.5

-38

85

642

+83.2

254

7.28 + 0.67 + 0.16 2.05

+83.8

135
~~346~~

11-035

+554

~~278~~ ~~392~~ ~~390~~

+443

1.90

+83.6

7.28 405 208 310 (1)

7.28 415 207 301 (2)

160

7.28 424 141

303 (1)

200

305

52.7
2.92
2.35
5.35

8.14

200

+0305 -392 Y+U



67



13.500
-38.650
554.000
-398.000
1.900
24
83.500

-0.781
0.136
-0.611
-1842.068
-95.221

0.605
0.405
-0.685
491.597
-45.486

-0.150

13.588 : R.A. 9
 38.670 : DEC. :
 287.888 : R.A. :
 -385.000 : DEC. :
 2.358 : TANCE :
 38 : DULUS :
 88.208 : VELA :
 -0.781 : 1 (U) :
 0.130 : 2 (U) :
 -0.911 : 3 (U) :
 1888.874 : 80 : X-1888.874
 108.842 : U : 108.842
 0.485 : 1 (U) :
 0.485 : 2 (U) :
 -0.888 : 3 (U) :
 210.822 : 80 :
 -42.022 : U :
 -0.128 : 1 (U) :
 0.605 : 2 (U) :
 0.382 : 3 (U) :
 2013.338 : 80 : X-2013.338
 -28.448 : W :

10
 10

R.A. : 13.500
DEC. : -38.650
R.A. : 567.000
DEC. : -392.000
TANCE : 2.350
DULUS : 30
VEL. : 83.500

1 (U) : -0.781
2 (U) : 0.130
3 (U) : -0.611
dU : % -1880.874
U : -106.542

1 (V) : 0.605
2 (V) : 0.405
3 (V) : -0.686
dV : 516.855
V : -42.025

1 (W) : -0.158
2 (W) : 0.905
3 (W) : 0.395
dW : % -2013.238
W : -26.443

67

117635
GL18284
W8019

13 29.1 -02 04 267 -54.48W13)
-49.6 15th
7.37 +0.76 +0.31 RER

43086
-102832

+144 -33 -4 -0.030
+127 -27 -10 -0.035 ←
+113 -21 -15 -0.040
+106 -17 -16 -0.043

S = .05

732 474 293 240 (2) 51.5 (183)
739 473 298 250 (7) 2554
732 474 284 249 (1) 245
-830⁴ + 254⁴ GL
-824 ± 5 + 272 ± 5

-05565 +2595 GLT
-824 +261 GL →
-832 +255 1003

-0558 271
-836 271

-837 +268
-824 +265
-54.0
2.15

-836
271
129
-5.5

19.179
23311 M19)

0.258
0.238
+567
37
607

-055464.0
-0559

-2 3 52.25 1885.8

+25473.6
+265

8042 1886.9

3.496

11.538

57631

17.242

8.873

8.96

0

37719

30909

8.624

+14

8.13

1511

756

82

-27

49.8

-16.31

8.56

11.54

44.75

56.29

+55

55.74

53.69

4861

863

24

24

54.41

-24

54.41

+13.57

1885.8

1534.41

1010

5505

54.41

54.41

54.41

54.41

54.41

54.41

54.41

54.41

54.41

54.41

54.41

54.41

848

36.7

50.9

50.9

117635

645284

73050

W8019

23 m(s)

13 29.1 -0.2 0.1

2.37 +0.74 +0.31 6.95

$\delta = 0.5$

1027

+10286

-830 +2546

w(2)

267 -54.48

-383 -924 0 1 -930 +254 -544 0 0 1.200

-316 0 265 0 -1.500 3.625 -544 +50 +21 04

219
12-3615

+25 +81 +20
+82 -9 -26

05

-22 -139

+20 +93 +24
+94 -14 -21

10-412.14

-17 -1511



117635.000*

17.37

13.000*

29.100*

-2.000*

-4.000*

-0.829*

0.265*

2.150*

26.915

-54.000

18.5

19.5

3.663

-0.410

R.A. : 13.500
DEC. : -2.050
1. R.A. : -836.000
1. DEC. : 271.000
DISTANCE : 1.290
MODULUS : 18
D. VEL. : -51.500

q1 (U) : -0.781
q2 (U) : 0.469
q3 (U) : -0.413
dU : 3694.149
U : 88.179

q1 (V) : 0.605
q2 (V) : 0.734
q3 (V) : -0.309
dV : % -1451.511
V : -10.361

q1 (W) : -0.158
q2 (W) : 0.491
q3 (W) : 0.857
dW : 1256.510
W : -21.357

18

107987

13 2/9 ~ 27 15

92.5③

926 0590 519 265 2523 ②

926 555 520 259 ①

210

92604

~~107987 - HP~~ (Garden)

~ 15/14
~ 15/15 - 15/15

~ 624
~ 765

2.162
~ 92.5

69

10.000
DEC
7.000
R.A.
200.000
DEC
100.000
STANCE
2.000
MODULUS
30
22.000
VEL

d1 (U)
d2 (U)
d3 (U)
DU
U
100.000
100.000

d1 (U)
d2 (U)
d3 (U)
DU
U
100.000
100.000

d1 (U)
d2 (U)
d3 (U)
DU
U
100.000
100.000

R.A. : -13.500
DEC. : -27.250
R.A. : -624.000
DEC. : -155.000
STANCE : 2.620
MODULUS : 33
VEL. : -92.800

q1 (U) : -0.781
q2 (U) : 0.249
q3 (U) : -0.573
dU : 1870.167
U : 115.707

q1 (V) : 0.605
q2 (V) : 0.532
q3 (V) : -0.592
dV : -1981.021
V : -11.228

q1 (W) : -0.158
q2 (W) : 0.809
q3 (W) : 0.566
dW : -179.084
W : -58.507

6A

118244

13 328 + 22 48 - 4

~~1232889~~

-24 (4)
~912 (3)

693 812 128 389 2620 (4)

1320
00361
23.59
196
4.85

-0189 121 (analysis)

-259121

-281

121

285

-17

70

R.A. : 13.550
DEC. : 22.250
R.A. : -281.000
DEC. : 121.000
TANCE : 2.800
DULUS : 38
VEL. : -17.000

1 (U) : -0.775
2 (U) : 0.601
3 (U) : -0.193
dU : 1300.801
U : 52.278

q1 (V) : 0.608
q2 (V) : 0.793
q3 (V) : 0.027
dV : -294.890
V : -11.575

q1 (W) : -0.169
q2 (W) : 0.096
q3 (W) : 0.981

119261 13 33.8 -61 26 dFS

H05113

621884

$\Delta m = 0.2$
plot

6.39
5.63 +0.505 -0.04 25950

0.224 -11

560 711

340 148

239 304 711 202 565 327 133 372 318
375 1.67 364 2.448 2 1.11, 2

272

303

1.98

4.40

2.30 -38.9 -20.9 -18.2

-484 +372 -647

119261
H05113
621884

118216

5110 HP

648359

5115

⁺⁰²⁰⁴
+0193 ± 6.0
+0196
13.33.8
~~+0204~~
+04.6.0

+1224 ± 74
-128.2
-61.2
+10.36

-6103841

118261

5.63 + 0.47 = 0.349

~~+0193~~ -124
+136

47.598

-951
46.647

1400.7 -61 26 8.64 1896.2

85m 20
0.14
0.02

48.086 11.05 + 6.67
50.757 2.0
53.853 11.35

47.387
1401

7.06 1539.14

+0200 -128
+01994 -122

42.1

7.51 85.64

1432

47.575
545

7.5 1946.5

1144 -118

13.55
-61.4
+301

473
+ 826

7.92
-5.95

-118

2.5
+40.3

196544 826 0.25 4B
 196557 989 0.25 4 0 Day 196556 642 0.177 9 0 Day 20.55 2261 0.24 1W
 -355-917-878 475 +105-124 +40.3 109-35-250 196644 671 0.14 7B 02.10 2187 0.233W

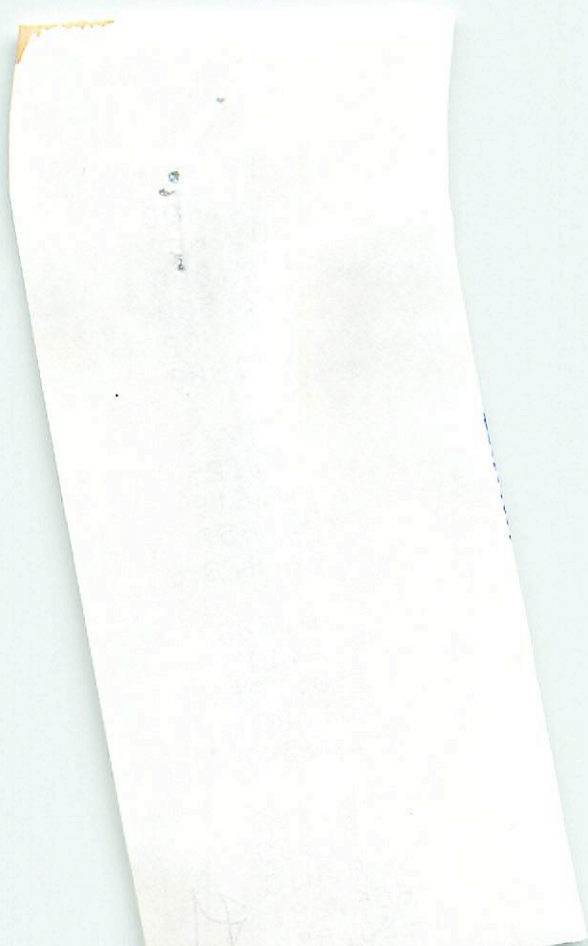
055 043-127-100 734-353 +19.3 -15-8 0249

+3-19-43
 [-37-23-19]

190246 2143 0.34 3I
 191975 1375 0.35 3 Days
 192633 1066 0.36 2B
 192924 947 0.39 2B
 193044 839 0.30 4B
 193144 704 0.17 6B
 193229 149 0.13 6B
 193321 248.0 0.145 2.0 Imp.
 193442 2340 0.227 4 B Day.

192572
 193708 2192 0.32 4B
 193841 2114 0.31 4B
 193927 1634 0.32 2B
 194048 1097 0.34 3B
 194145 976 0.32-3B





13.500
-61.400
301.000
-118.000
2.500
32
40.300

-0.775
-0.125
-0.619
-459.657
-39.478

6.600
0.115
-0.785
351.091
-20.547

-0.169
0.985
0.013
-666.881

100 71

TEL
LUS
NCE
E
A
C
U
A

13.550
-61.450
334.000
-111.000
25.020
40.300

-0.775
-0.126
-0.619
-520.644
-38.137

508

6.98 386 2.06 372 2.630
145 359 2.05 350

118478
18 35.67 25 60 +32.8 754
(375)

6.618432
6.97 +0.63 +0.18 385 64 91 -180

20381
37.344 1900.6
+0487 ±9.5 -213 ±8.0
+0396 ±2.8 -205 ±3.64 18966

2472
2.406
34.938
+0545 -217 4232
936 -180

472480
48.572
36.018
+0476 -217 4232
10.05 1929.71 +328
3975 7.24

226
472480
48.572
36.018
+1.282
1947.4

37.50
37.50
51.9
-11
-1
52.

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-1
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27

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R.A. : 12.800
DEC. : -67.400
R.A. : 736.000
DEC. : -180.000
DISTANCE : 2.240
MODULUS : 28
VEL. : 32.800

1 (U) : -0.770
2 (U) : -0.198
3 (U) : -0.606
dU : -863.118
U : -44.102

1 (V) : 0.612
2 (V) : 0.040
3 (V) : -0.790
dV : 786.389
V : -3.851

q1 (W) : -0.181
q2 (W) : 0.979
q3 (W) : -0.091
dW : %-1077.936
W : -33.220

72