

34860  
-401108

34860  
-401108

17.9 - 0.4

94 + 52

94 + 52

94 + 52

94 + 52

673

44

28

28

505

14

814  
2991  
25  
20  
5.61

5

5.300  
-4.800  
-28.000  
28.000  
5.050  
102  
18.000

0.093  
0.555  
0.827  
61.293  
21.155

-0.567  
0.712  
-0.414  
169.483  
9.890

0.819  
0.430  
-0.381  
-51.232  
-12.094

35222

-3802254

5 20.5 25 24 - F5V +6.3

F8V mid

+0223 -0.5 +0

+0282

+032-016

5.23  
-35.23  
+34

-70

5.1

+6.3

5.330  
-35.330  
39.000  
-16.000  
5.100  
105  
6.300

0.086  
0.898  
0.431  
-55.099  
-3.054

-0.564  
0.401  
-0.722  
-115.417  
-16.635

0.821  
0.181  
-0.541  
110.183  
8.129

39896

5 42.0

- 37 43

F5 D

total

37036  
Widening

F3 D Min

FOX  
1110P  
101P  
101P

+00.5 +045

+0078

+022 +043.5

+0001 +068

+005 +064

7.6

5.7

327

+28

+43.5

5.6

total

+6  
+64

69.799

-4.888

5.700

-37.700

9.000

45.000

5.600

132

29.100

0.002

0.918

0.397

195.840

37.366

-0.527

0.338

-0.780

54.372

-15.529

0.850

0.208

-0.484

72.987

-4.459

2941

40004

5

432 +10 47

1000 III 1007

-19 -17

-1

-20 -12  
-11 -02

-13 -30 ABAY 5.7

+10.8

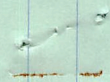
-18

-20

60

1007

020-810  
-018-020







38789

5

480

-26

0

8018-59

Mr. R

3 -7

47 43

49 -4

4006

1000-0000

579

114

-4

594

159

8018-59

5.750  
-26.250  
11.000  
-4.000  
4.650  
85  
-5.900

-0.010  
0.821  
0.571  
-16.019  
-4.733

-0.521  
0.483  
-0.703  
-33.533  
1.296

0.853  
0.305  
-0.423  
34.135  
5.401

3918

5 51.3

-16 16

MP

FIVE +3

-160262

36 -107

3 -6

37 -113

325 -115

30 -115

5.88

-16.25

31  
-115

3.58

+3

5.850  
-16.250  
-31.000  
-115.000  
3.550  
51  
3.000

-0.033  
0.709  
0.704  
-381.863  
-17.471

-0.510  
0.594  
-0.622  
-252.023  
-14.791

0.860  
0.380  
-0.342  
-328.180  
-17.858

89755

5 44.9 -62.06 F2V t3

12054

much F2B

-0039 -034

-0034 -033

-024

-020 -030

0.8

-62.1

-42.5

-33

485

t3

5.800

-62.100

-42.500

-33.000

4.850

93

3.000

-0.021

1.000

-0.018

-154.360

-14.459

-0.516

-0.026

-0.856

52.710

2.350

0.857

0.009

-0.516

-82.143

-9.214

4025

5 53.7

→ see of FSV + 2.5

EMR 95e

0 -36

44 14 6+

44 4 6e-

1007.5 - 029

4.5

1.5e

5.84

6e

5.1

2.5

5.900  
-29.100  
8.500  
-29.000  
5.100  
105  
2.500

-0.044  
0.848  
0.529  
-118.073  
-11.042

-0.504  
0.438  
-0.744  
-77.954  
-10.023

0.862  
0.299  
-0.408  
-10.807  
-2.152



40170 5 543 -20 02 F6D -6

-2001732

$$\begin{array}{r} +064 -104 \\ +3 +3 \end{array}$$

$$\begin{array}{r} +67 -101 \end{array}$$

$$+63 -103$$

$$\boxed{+66 -103}$$

54

-20

+70

-103

4.8

-6

5.900  
-20.000  
70.000  
-100.000  
4.800  
91  
-6.000

-0.044  
0.753  
0.656  
-381.571  
-38.736

-0.504  
0.550  
-0.666  
-425.833  
-34.843

0.862  
0.360  
-0.356  
92.987  
10.615

FOI  
-30

40259 5 55.2 + 2.04

-39 +394

~~74~~ +1  
+40  
-33

21 +39 ABN

-027 +035  
579  
+2.1

4026 +039

-26

+39

808

30

5.900  
2.100  
-26.000  
39.000  
5.050  
102  
-30.000

-0.044  
0.451  
0.891  
88.839  
-17.650

-0.504  
0.760  
-0.410  
202.629  
33.026

0.862  
0.468  
-0.194  
-19.762  
3.798



5.900  
6.500  
-13.000  
-24.000  
5.600  
132  
-12.000

-0.044  
0.381  
0.923  
-40.695  
-16.445

-0.504  
0.789  
-0.350  
-58.913  
-3.564

0.862  
0.481  
-0.158  
-107.531  
-12.284

5052 5 589 702 88 FSTV +45

2501  
+20102

514  
-1

0  
+15  
-3  
514  
+5

5295  
+2.5

-6025 +12.5

-1  
5.214

5.214 + 12.5

514  
4.95

514  
+45

5.950  
2.500  
-1.000  
12.500  
4.450  
78  
45.000

-0.056  
0.445  
0.894  
26.628  
42.289

-0.499  
0.763  
-0.411  
47.583  
-14.799

0.865  
0.468  
-0.179  
23.661  
-6.239



47028  
65

hellp  
try

00.3 +14 22 FYTD -3

+18 -66

0 -1  
+16 +11.5  
-64.5

+19 -63 AGIC4 6.0

+17.5 -64 +14.4  
+18.5

[+18 -64]

64

5.25

-3

6.000  
14.400  
18.500  
-64.000  
5.250  
112  
-3.000

-0.067  
0.251  
0.966  
-81.925  
-12.089

-0.493  
0.833  
-0.251  
-294.607  
-32.302

0.868  
0.493  
-0.068  
-75.742  
-8.294

41255

-1101343

6 011 -16 02 F7V -3

-74 -15

-3 -5  
-55 -2

-080.5 -022

-079.5 -022

6.0

-16

-82.5

-22

335

-3

6.000

-16.000

-82.500

-22.000

3.350

47

-3.000

-0.067

0.705

0.706

-48.375

-4.380

-0.493

0.592

-0.638

123.524

7.692

0.868

0.390

-0.308

-366.848

-16.235

1/22/14

5 59.5

-6.2

64

F0V + 22.1

59.3

F0III mid

+0010 01004

+0005 +020

+0005

6.0  
-6.28

+001

+12

+20

6.4

+003.5 +020

+22.1

6.000  
-62.800  
12.000  
20.000  
6.400  
191  
22.100

-0.067  
0.997  
-0.031  
92.800  
16.995

-0.493  
-0.060  
-0.868  
-18.517  
-22.713

0.868  
0.043  
-0.495  
26.616  
-5.877

41576 6 019 -5207 F312 +97

52825

F213 III

800-  
-0000

2-  
-0000

010-  
-0000

0005-  
-0000

5145

400-000

600

-501

0

-7

69

+97

6.000  
-52.100  
0.000  
-7.000  
6.900  
240  
9.700

-0.067  
0.986  
0.155  
-32.706  
-6.346

-0.493  
0.102  
-0.864  
-3.386  
-9.195

0.868  
0.134  
-0.479  
-4.448  
-5.712



411658  
+1501058

6 044 418 48 48 +22  
F87J +22

-9 -16  
+4 +3  
-2 116  
-38  
-38  
-2005 5100  
-2005 -225  
-2005 -225

6.1  
+188  
-4.5  
-25  
6.5  
+22



43502

2202624

6 139 -23 05 G2E +19.7

+48 -55

+8 +4

15 - 151

+48 -51

+081 -51

6.2

-221

+55

-51

5765

+19.7

6.200  
-23.100  
55.000  
-51.000  
5.650  
135  
19.700

-0.113  
0.785  
0.609  
-216.844  
-17.259

-0.468  
0.498  
-0.730  
-232.808  
-45.776

0.876  
0.367  
-0.312  
121.334  
10.225

MP PWTB

43856 6 16.1 706 45 8.1 dfg-5808

4601191  
4001

+023 -075 AG64

+1 +3  
+02658 -04357 Y

+0227 -040  
~~+0227~~

+024 -040

+023 -075 AG64

+0235 -057

+025 -057

6.25

+6.75

+28

-59

4.15

-58.0

6.250  
6.750  
25.000  
-43.000  
5.000  
100  
-58.000

-0.124  
0.378  
0.917  
-91.697  
-62.375

-0.462  
0.796  
-0.391  
-216.641  
0.999

0.878  
0.472  
-0.076  
7.038  
5.125

6.250  
6.750  
25.000  
-57.000  
4.150  
68  
-58.000

-0.124  
0.378  
0.917  
-116.804  
-61.102

-0.462  
0.796  
-0.391  
-269.466  
4.445

0.878  
0.472  
-0.076  
-24.313  
2.778

6 18 -02

6 168 -0 59

44019

-0.125

-014-011 ACID3

625

-0.9

-76

-76

0.8

-0.9

013-024 ✓

016 -022

$\frac{-020}{-017} -016$

$\frac{-016-016}{-016-016}$

6.000  
-0.900  
-16.000  
-16.000  
0.800  
-14  
39.000

-0.135  
0.497  
0.857  
-27.441  
33.031

-0.456  
0.737  
-0.499  
-21.312  
-19.779

0.880  
0.458  
-0.127  
-101.463  
-6.417



44420 6 19.2 -00 3/ 642 +5.38 (3)

70 ? -04

2.60 +0.665 +0.29 295 (2)

-02 52.09

7.62 +0.70 (1.83)

-15 -31 -22 .02

-22 -40 -30 -015

10.5 / 12 164

-015 57 -173 57 Y

-2 +1

-017 -172

-1 0

3.5

+53

-008 -160 AB123

-013 -164

6.300  
 -0.500  
 -13.000  
 -166.000  
 3.500  
 50  
 5.300  
  
 -0.135  
 0.491  
 0.861  
 -378.058  
 -14.387  
  
 -0.456  
 0.746  
 -0.494  
 -554.413  
 -80.465  
  
 0.868  
 0.459  
 -0.124  
 -415.473  
 -21.479

0 0 0 1 -015 -173 +5.3 0 0 -620  
 015 0 0 0 071 0 +6.3 0 75 0 315

+2+5-26

-8 -21 -14

44400

96122

6 80 +6

6 29.1 +6 49

+6.1276

0527  
0089  
-110  
0189

-032 -042 AG-13

806  
1763

-5462  
-8376

6.5  
+6.8

-052 -028 y

-056 -031

-058 -030

-44

-045 -036

-36

-044 -036

016

-8.0

6.500  
6.800  
-44.000  
-36.000  
0.600  
13  
-8.000

-0.180  
0.379  
0.908  
-27.279  
-7.622

-0.430  
0.800  
-0.419  
-47.489  
2.726

0.885  
0.466  
-0.019  
-262.690  
-3.815

45829

-01258

6 24.4 ~ 01 01 F3 III +25.4

+6 -20

-3 -2  
-45 -0.5

~~15 -12-18-14~~  
0 -22

-007.5 -017.5

-006 -017

-0043

6.4  
-1

-6

-17

59

1.5 at

6.400  
-1.000  
-6.000  
-17.000  
5.900  
151  
25.400

-0.158  
0.498  
0.852  
-35.688  
16.251

-0.443  
0.736  
-0.512  
-46.692  
-20.079

0.883  
0.458  
-0.105  
-62.007  
-12.048

476423      6      31.0      +14      20      FGV      +14

+1401843

-77      -83

+1      -2  
-2      +2

6.5

+14.83

-67

-34

425

+14

-52      -45      AB154

-78      -33

-68      -39

-65      -39

6.500

14.330

-67.000

-39.000

4.250

71

14.000

-0.180

0.256

0.950

8.073

13.866

-0.430

0.848

-0.311

-24.505

-6.083

0.885

0.464

0.043

-358.031

-24.749



48688 6 43.2 +10 49 Go III +32

1001253 6.7 +108 +2 -18 49 +32

+3 -8 AGGY

+1 -22.5

+2 -018

+2 -018

6.700  
10.800  
2.000  
-18.000  
4.900  
95  
32.000

-0.225  
0.316  
0.922  
-29.095  
26.711

-0.402  
0.831  
-0.384  
-74.665  
-19.407

0.887  
0.457  
0.060  
-30.739  
-1.028

50035

6 46.8

-61 45

FIV +20.4

-610716

FIV mix

0 -014 C

+1004 -013

6.75  
-6.75

+0028

+007.5 -012

+16

-12

6.55

4.004

6.750  
-61.750  
16.000  
-12.000  
6.550  
204  
20.400

-0.236  
0.971  
-0.027  
-63.723  
-13.561

-0.395  
-0.121  
-0.910  
-7.293  
-20.062

0.888  
0.204  
-0.413  
20.252  
-4.285

F9V L2

50060 6 49.2 +10 52 28 dF9 +71c

+10 01301

-069 +022 +0124  
-097 +022

-093 ±7 +032 ±5 ✓  
+ 2 + 4  
- 2 + 1.5

+65.3 3016  
+71c 2 inch

-082 +030  
-081 +031

~~+65.2~~

6.8  
+10.9

-82.5  
+31

305  
+68



50735  
-801604

6 51.7

-08 43

-11 74

74 -6

-4 -1

-11 -3

6.85

-8.7

-8.5

-2

-608.5 - 2

POE +55

1st DCD OR RD RES ?

50746A  
LSA192+

~~0.2+~~

10' 11' 11"  
NSR K6U  
SSD

10-25 AB104  
SS-01-  
PE-2-  
-34

SS7  
192+

11' 11'

-8

4E-

SC4

1st



1  
1 0  
0 2 0 0 0  
4 5 0 4 0  
2 5 2 5 0  
0 0 0 0 0

1  
1 0  
0 0 1  
0 0 0 0 1  
2 5 0 2 0  
0 0 0 0 0  
0 0 0 0 1

1  
0 0  
0 1 0 0 1  
0 0 0 4 0  
0 0 1 4 0  
2 0 0 4 0

4  
1  
0 4 4 0 0  
0 2 0 0 0  
0 2 0 0 0  
0 1 0 0 0

460

52370

basic

6 58.4 to 2 11 F4D -5

-3 + 6 4

+2 0  
-3 -0.5  
-4 +5.5

-6 -3 Abicy

-005 +001

-003.5 +002

6.55

+2.2

-3.5

+2

5.0

-5

6.950  
2.200  
-3.500  
2.000  
5.000  
100  
-5.000

-0.280  
0.451  
0.847  
8.917  
-3.345

-0.367  
0.765  
-0.529  
13.336  
3.977

0.887  
0.459  
0.049  
-10.361  
-1.279

536.58

-650.686

100

~~100~~

00.9

-65 38 F6.5 +8.1

F6.5 Made

-0165 +065 C  
-17

-0182 +062

-0177 +0628

-110

-105.5 +061.5

7.0

-656

-258.5

+61.5

40.5

+8.1

7.000  
-65.600  
-255.500  
61.500  
4.050  
65  
8.100

-0.291  
0.952  
-0.099  
422.811  
26.495

-0.359  
-0.205  
-0.910  
120.131  
0.382

0.887  
0.229  
-0.402  
-376.936  
-27.589

56054 7 09.1 +10 36 F7V -45

10° 1448 053

Penkand +0033

+49 -604

+2 +3  
-2 +1.5

7.15  
+106

+49 -50.5  
+30 -57 AG.154

+35.5

+040 -056.5

56

+034 -056

42  
45

7.150  
10.600  
39.500  
-56.000  
4.200  
69  
-45.000

-0.323  
0.326  
0.889  
-145.836  
-50.081

-0.337  
0.838  
-0.429  
-284.430  
-0.355

0.884  
0.438  
0.161  
46.475  
-4.017

55055

+601500

7 090 +06 50 FOV +1

+15 -48 Y

~~-7~~ -25

~~-2~~ +0.5

~~+9~~ -49.5

2.15

+6.8

+6 -49 X624

+9

-48

6.3

+7

+00.5 -0.49

+009 -0.49



7.150

6.800

9.000

-48.000

6.300

182

1.000

-0.323

0.384

0.865

-100.996

-17.513

-0.337

0.808

-0.484

-198.016

-36.517

0.884

0.448

0.131

-64.419

-11.591

55326

245<sup>0</sup>1257  
CPD

7 09.0

-45 36

PAID +14.1

PAID  
P. L. to Ann

00

-0008 +029 76

7/5

4510

5.5

730.5

6.5

14.1

0084

5080 + 1030.5

1 5 0 2 4  
0 5 2 0  
7 4 2 0  
2 4 2 0  
0 0 0 0  
0 0 0 0  
0 0 0 0  
0 0 0 0

5 2 5 2  
0 4 0 0  
0 0 0 0  
0 1 0 0  
0 0 0 0  
0 0 0 0  
0 0 0 0  
0 0 0 0

0 0 4 0  
0 0 2 0  
0 4 2 0  
0 4 2 0  
0 0 0 0  
0 0 0 0  
0 0 0 0  
0 0 0 0

0 0 0 0  
0 0 0 0  
0 0 0 0  
0 0 0 0  
0 0 0 0  
0 0 0 0  
0 0 0 0  
0 0 0 0

0 0 0 0  
0 0 0 0  
0 0 0 0  
0 0 0 0  
0 0 0 0  
0 0 0 0  
0 0 0 0  
0 0 0 0

0 0 0 0  
0 0 0 0  
0 0 0 0  
0 0 0 0  
0 0 0 0  
0 0 0 0  
0 0 0 0  
0 0 0 0

55238

454108-

7 10.1 28 29 FUND +34

490- 50

44 -6

55260

7

17.3

21

02

26 Jan

881000

-25 -15

+6 -4  
~~1~~

000

-23.8 -20

100

5.81 - 0.00  
-18.5

5100

581

800

100

7.200  
-21.000  
-21.500  
-18.500  
6.350  
186  
-26.000

-0.333  
0.741  
0.582  
-33.298  
-21.340

-0.329  
0.487  
-0.809  
-11.368  
18.913

0.883  
0.462  
-0.082  
-124.513  
-21.056

5614 ✓ 7 11.5 -53 45 P8 II 255

607 Mia

44 70028-010 2

-4 -1

70034-014

70035-0115

033.6

010-8004

721  
JPS

5.47+

01-  
SRh

JSEL

7.200

-53.800

64.500

-10.000

4.050

6/54

25.800

-0.333

0.939

0.088

-104.696

-4.494

-0.329

-0.029

-0.944

-58.126

-28.101

0.883

0.344

-0.319

143.217

1.021



Page

56274      7    13.6    -12   58    diff    +60  
 GC9680      +5200(1)

W4801      7.73    +0.63    -0.01    G20 R    +630(1)

Y1705       $\delta = .17$   
 -1201871      7.2  
                  -13  
                  -523

+92    +3    -61    .027  
 +53   -14   -54    .035  
 +54   -16   -49    .045

225-      2214      2314  
 -505-      -505+01505  
 -504      -2314

324(7)  
 352(5)  
 3459

$$\begin{array}{r}
 -0342 \pm 12.2 \\
 -0352 \\
 \hline
 348
 \end{array}$$

$$\begin{array}{r}
 -12 \\
 +175 \\
 \hline
 1726
 \end{array}$$

$$\begin{array}{r}
 33.449 \\
 1402.7 \\
 -12 \\
 57 \\
 55.87 \\
 1899.3
 \end{array}$$

$$\begin{array}{r}
 1.618 \\
 \hline
 35.117 \\
 -0351 + 175 \\
 -8.97 \\
 \hline
 4.84
 \end{array}$$

$$\begin{array}{r}
 -58 \\
 -810 + 176 \\
 \hline
 344
 \end{array}$$

$$\begin{array}{r}
 44.45 \\
 -285 \\
 \hline
 47.30 \\
 -19 \\
 \hline
 47.25
 \end{array}$$

$$\begin{array}{r}
 5.920 \\
 27.814 \\
 \hline
 33.734 \\
 7780 \\
 \hline
 33.840 \\
 944 \\
 \hline
 34.008
 \end{array}$$

$$\begin{array}{r}
 47.25 \\
 +16.70 \\
 \hline
 63.95 \\
 1429 \\
 \hline
 48.19 \\
 24 \\
 \hline
 48.75
 \end{array}$$

$$\begin{array}{r}
 34.008 \\
 -1.227 \\
 \hline
 32.781 \\
 7516 \\
 \hline
 37.6
 \end{array}$$

$$\begin{array}{r}
 48.75 \\
 -24 \\
 \hline
 49.04 \\
 38.3
 \end{array}$$

7.200  
-13.000  
-520.000  
-175.000  
3.400  
400

60.000

-0.999  
-0.659  
0.680  
1350.277  
105.410

-0.929  
-0.595  
-0.739  
1292.081  
17.052

0.000  
0.460  
-0.017  
-1742.946  
-84.434

95

112

45



7.10  
-7.261

7.330  
-8.900  
-24.000  
4.000  
7.050  
257  
47.000

-0.361  
0.601  
0.713  
51.942  
46.868

+44

-0.310  
0.644  
-0.700  
46.998  
-20.797

-194

0.880  
0.473  
0.046  
-89.913  
-20.934

76

58477  
+1801615

7 23.6 48 37

F212 +39

-18 -22

+1 -2  
+15

-16 -22-4814  
-16 22

7.4

+18.6

-17

-21

6.3

+39

016 -022

-16-022

7.400  
18.600  
-17.000  
-21.000  
6.300  
182  
39.000

-0.375  
0.206  
0.904  
8.152  
36.728

-0.299  
0.896  
-0.328  
-66.394  
-24.887

0.877  
0.393  
0.275  
-106.142  
-8.598

5950

501280

7

299 -00 25

FC III +28

-0018#71 -081#47

88

63207 40 -0023

-084 323/ 958

-0018

-053 +186-3

083  
360

~~30~~ 92

-0020 -063

-0022 -0638

53.203  
+8

6766

3670

11  
3687

-033

-031-062

2.5  
-0.4

-31  
-62

5.7

288

53211 6927 3680

11  
3687  
1899  
3687



7.500  
-0.400  
-31.000  
-62.000  
5.700  
138  
28.000

-0.396  
0.489  
0.777  
-85.532  
9.958

-0.283  
0.740  
-0.610  
-176.008  
-41.370

0.874  
0.461  
0.155  
-263.935  
-32.100

60265 - 20° 2009

TY Pump

7

30.6 - 20 41

A92n + 28.6

orbit

8.5

- 016 ± 13 + 051 ± 10

35.878  
32  
910

- 20 41 3.54 1933.49

17  
0.37

+6

010

~~0020~~

- 015 + 049

7.5

20.7

- 13

012 + 080.5

+ 50.5

6.85

+ 25

7.500  
 -20.700  
 -10.000  
 50.000  
 6.500  
 200  
 28.000  
  
 -0.396  
 0.728  
 0.559  
 190.155  
 53.600  
  
 -0.283  
 0.483  
 -0.829  
 126.968  
 2.128  
  
 0.874  
 0.486  
 -0.015  
 76.523  
 14.851

925 -38 / -353 535 -016 1051 128.0 -016 -10 220  
 015  
 326 017 006 007 035 109 +26.2 -10 +24  
 -5 -+35+18  
 008



62039 7 34.7 47.59 G1D +88.9

770319  
88.9 Wick

+0028 +039 C  
-18 +38

+0010 +43  
+0024 +040 Y

7.6  
-7.8

+0015 +046 S  
+45.5

+005  
+43

4.3

+009.5 +013

+28.4

~~76.600~~  
-78.000  
45.500  
43.000  
4.300  
72  
38.400

-0.416  
0.854  
-0.313  
155.353  
-0.768

-0.267  
-0.444  
-0.856  
-102.393  
-40.270

0.869  
0.273  
-0.413  
94.521  
-8.995