

36 days

79158

9 10.5 443 26 5.3 A1 +20.98

12714

6025

-0022

89

-036 N30

-0020 ± 1.5 - 040 ± 1.3 GC → N30

45290

2019-2023  
6.14.08

1000

8000

-6023

0460

0007

2000

→ 2978

0007

0009

R.A.	9.150
DEC.	43.450
R.A.	0.000
DEC.	0.000
TANCE	0.000
DULUS	10
VEL.	0.000
1 (U)	-0.686
12 (U)	-0.023
13 (U)	0.727
DU	0.000
U	0.000
q1 (U)	-0.004
q2 (U)	1.000
q3 (U)	0.027
DU	0.000
U	0.000
q1 (M)	0.727
q2 (M)	-0.016
q3 (M)	0.686
MP	0.000
M	0.000

1564

494180 10 37.3 .55 21 120.0e 214

645W

474 223 90 -017 -010

214 454

-0187 5044

~~-00240~~  
~~-00204~~  
-0014 -0056e  
-0029 -005230

212 53  
218 43  
214 41

-0020  
-017 224 22

23610

-840 450 251 +0812 -0068 10744 +20 -5.0 -9.0

277 -074 -904 -0239 0 -229-27 -14.3 -240

452 173 057 4666 -0124 -1550 -19 -11.1 -13.8

729 21



- 562

4169 10 35.5 -58 28 ADIE

52207

14622

9 5' 5" 8' 5" 10" 11" 12" 13" 14" 15" 16" 17" 18" 19" 20" 21" 22" 23" 24" 25" 26" 27" 28" 29" 30" 31" 32" 33" 34" 35" 36" 37" 38" 39" 40" 41" 42" 43" 44" 45" 46" 47" 48" 49" 50" 51" 52" 53" 54" 55" 56" 57" 58" 59" 60" 61" 62" 63" 64" 65" 66" 67" 68" 69" 70" 71" 72" 73" 74" 75" 76" 77" 78" 79" 80" 81" 82" 83" 84" 85" 86" 87" 88" 89" 90" 91" 92" 93" 94" 95" 96" 97" 98" 99" 100" 101" 102" 103" 104" 105" 106" 107" 108" 109" 110" 111" 112" 113" 114" 115" 116" 117" 118" 119" 120" 121" 122" 123" 124" 125" 126" 127" 128" 129" 130" 131" 132" 133" 134" 135" 136" 137" 138" 139" 140" 141" 142" 143" 144" 145" 146" 147" 148" 149" 150" 151" 152" 153" 154" 155" 156" 157" 158" 159" 160" 161" 162" 163" 164" 165" 166" 167" 168" 169" 170" 171" 172" 173" 174" 175" 176" 177" 178" 179" 180" 181" 182" 183" 184" 185" 186" 187" 188" 189" 190" 191" 192" 193" 194" 195" 196" 197" 198" 199" 200" 201" 202" 203" 204" 205" 206" 207" 208" 209" 210" 211" 212" 213" 214" 215" 216" 217" 218" 219" 220" 221" 222" 223" 224" 225" 226" 227" 228" 229" 230" 231" 232" 233" 234" 235" 236" 237" 238" 239" 240" 241" 242" 243" 244" 245" 246" 247" 248" 249" 250" 251" 252" 253" 254" 255" 256" 257" 258" 259" 260" 261" 262" 263" 264" 265" 266" 267" 268" 269" 270" 271" 272" 273" 274" 275" 276" 277" 278" 279" 280" 281" 282" 283" 284" 285" 286" 287" 288" 289" 290" 291" 292" 293" 294" 295" 296" 297" 298" 299" 300" 301" 302" 303" 304" 305" 306" 307" 308" 309" 310" 311" 312" 313" 314" 315" 316" 317" 318" 319" 320" 321" 322" 323" 324" 325" 326" 327" 328" 329" 330" 331" 332" 333" 334" 335" 336" 337" 338" 339" 340" 341" 342" 343" 344" 345" 346" 347" 348" 349" 350" 351" 352" 353" 354" 355" 356" 357" 358" 359" 360" 361" 362" 363" 364" 365" 366" 367" 368" 369" 370" 371" 372" 373" 374" 375" 376" 377" 378" 379" 380" 381" 382" 383" 384" 385" 386" 387" 388" 389" 390" 391" 392" 393" 394" 395" 396" 397" 398" 399" 400" 401" 402" 403" 404" 405" 406" 407" 408" 409" 410" 411" 412" 413" 414" 415" 416" 417" 418" 419" 420" 421" 422" 423" 424" 425" 426" 427" 428" 429" 430" 431" 432" 433" 434" 435" 436" 437" 438" 439" 440" 441" 442" 443" 444" 445" 446" 447" 448" 449" 450" 451" 452" 453" 454" 455" 456" 457" 458" 459" 460" 461" 462" 463" 464" 465" 466" 467" 468" 469" 470" 471" 472" 473" 474" 475" 476" 477" 478" 479" 480" 481" 482" 483" 484" 485" 486" 487" 488" 489" 490" 491" 492" 493" 494" 495" 496" 497" 498" 499" 500" 501" 502" 503" 504" 505" 506" 507" 508" 509" 510" 511" 512" 513" 514" 515" 516" 517" 518" 519" 520" 521" 522" 523" 524" 525" 526" 527" 528" 529" 530" 531" 532" 533" 534" 535" 536" 537" 538" 539" 540" 541" 542" 543" 544" 545" 546" 547" 548" 549" 550" 551" 552" 553" 554" 555" 556" 557" 558" 559" 560" 561" 562" 563" 564" 565" 566" 567" 568" 569" 570" 571" 572" 573" 574" 575" 576" 577" 578" 579" 580" 581" 582" 583" 584" 585" 586" 587" 588" 589" 590" 591" 592" 593" 594" 595" 596" 597" 598" 599" 600" 601" 602" 603" 604" 605" 606" 607" 608" 609" 610" 611" 612" 613" 614" 615" 616" 617" 618" 619" 620" 621" 622" 623" 624" 625" 626" 627" 628" 629" 630" 631" 632" 633" 634" 635" 636" 637" 638" 639" 640" 641" 642" 643" 644" 645" 646" 647" 648" 649" 650" 651" 652" 653" 654" 655" 656" 657" 658" 659" 660" 661" 662" 663" 664" 665" 666" 667" 668" 669" 670" 671" 672" 673" 674" 675" 676" 677" 678" 679" 680" 681" 682" 683" 684" 685" 686" 687" 688" 689" 690" 691" 692" 693" 694" 695" 696" 697" 698" 699" 700" 701" 702" 703" 704" 705" 706" 707" 708" 709" 710" 711" 712" 713" 714" 715" 716" 717" 718" 719" 720" 721" 722" 723" 724" 725" 726" 727" 728" 729" 730" 731" 732" 733" 734" 735" 736" 737" 738" 739" 740" 741" 742" 743" 744" 745" 746" 747" 748" 749" 750" 751" 752" 753" 754" 755" 756" 757" 758" 759" 760" 761" 762" 763" 764" 765" 766" 767" 768" 769" 770" 771" 772" 773" 774" 775" 776" 777" 778" 779" 780" 781" 782" 783" 784" 785" 786" 787" 788" 789" 790" 791" 792" 793" 794" 795" 796" 797" 798" 799" 800" 801" 802" 803" 804" 805" 806" 807" 808" 809" 810" 811" 812" 813" 814" 815" 816" 817" 818" 819" 820" 821" 822" 823" 824" 825" 826" 827" 828" 829" 830" 831" 832" 833" 834" 835" 836" 837" 838" 839" 840" 841" 842" 843" 844" 845" 846" 847" 848" 849" 850" 851" 852" 853" 854" 855" 856" 857" 858" 859" 860" 861" 862" 863" 864" 865" 866" 867" 868" 869" 870" 871" 872" 873" 874" 875" 876" 877" 878" 879" 880" 881" 882" 883" 884" 885" 886" 887" 888" 889" 890" 891" 892" 893" 894" 895" 896" 897" 898" 899" 900" 901" 902" 903" 904" 905" 906" 907" 908" 909" 910" 911" 912" 913" 914" 915" 916" 917" 918" 919" 920" 921" 922" 923" 924" 925" 926" 927" 928" 929" 930" 931" 932" 933" 934" 935" 936" 937" 938" 939" 940" 941" 942" 943" 944" 945" 946" 947" 948" 949" 950" 951" 952" 953" 954" 955" 956" 957" 958" 959" 960" 961" 962" 963" 964" 965" 966" 967" 968" 969" 970" 971" 972" 973" 974" 975" 976" 977" 978" 979" 980" 981" 982" 983" 984" 985" 986" 987" 988" 989" 990" 991" 992" 993" 994" 995" 996" 997" 998" 999" 1000

480-29 406 2.55

5935

508

4096

-6215

19558

24.10 5.6

36  
33.74

28.93

40.86

24.04

E = 50

32.344

-0012

-0015

-0016

-0013

0118

V<sub>0</sub> = 2.95

-009.5 4003

32375

23.66 20.05

-20.95

1200  
39

4185

du 16 2602

10 38.5

-156  
26

-64 520

+25.78

92664

5.52 -17 -56 C

-44403

5.51

-074 118 397 2.207 25

116

1748 1288 108 412 2764  
7.00 0.51 210 622

-6029 = 14

+39 54.5

-6045 GC+

1.2

-00306

-00114

-0.93

-0195<sup>27</sup>

+41

-017 +003

3.46



DD32# 65

1006 ± 416

$$\begin{array}{r} 114 \\ 27.199 \\ \hline 318 \end{array}$$

$$\begin{array}{r} 12.7 \\ 1002 \\ \hline 1015 \end{array}$$

$$\begin{array}{r} 25 \\ 20.92 \\ \hline 20.67 \end{array}$$

$$\begin{array}{r} 27.132 \\ \hline 27.151 \\ \hline 159 \end{array}$$

$$\begin{array}{r} 2041 \\ 2002 \\ \hline 39 \end{array}$$

$$\begin{array}{r} 20.20 \\ \hline 20.28 \\ \hline 78 \end{array}$$

$$\begin{array}{r} 27.259 \\ \hline 27.259 \end{array}$$

$$\begin{array}{r} 35.16 \\ 20.48 \\ \hline 14.68 \end{array}$$

$$\begin{array}{r} 6 \\ \hline 20.57 \end{array}$$

4196

10 40.5 64 12 8477

92434

480-14-57 404 4.7

-082 117 371 2.676

-7 +19 1243

581

~~0018~~  
~~17032~~  
+609

27.329 19048 -0007 15.65 19053

-2.0  
6.7

121  
960  
(6.584)

-34  
1604

27.380  
27.272  
15.68  
-2.1597 1491.54

296  
1623-04

+622  
27403  
16.06  
-07



0732 ± 34

4008 ± 25

27324

98 10026 + 1001  
10017 + 1004

1584 5.3

$\frac{-36}{16.22}$

~~10~~ 48

27272  
432  
299

(65.84)

15.48  
 $\frac{-18}{16.16}$

27380  
23  
403

(41.14)

15.47  
 $\frac{-9}{16.06}$

92664

10

38.5

24

50

5.8

Apr

+29.78

-0032 ± 5.5

-006 ± 4.6

+0038

+0034

14685  
6652

5.49 -0.13 +1.28  
5.51 -0.17 (1.26)

1 26"

-00265 +0034

27.199 1912.7

-64

50

20.92

1905.0

4188  
119

-29 -36 → 000

+ 25

1935.16

27.182

27.226

-23

0 new

20.48

1935.16

151

249

-0026

-001

20.57

192.8

21.0194

20.649

10

150

-9.1

-844 +419 -334  
+258 -224 -939  
+470 +874 -86

+0640 -0054  
-0196 +0032  
-0306 -0122

+0702  
-0155  
-0400

+8.0 -9.9  
-2.2 -279  
-3.0 -2.6

-22.5

4250 10 50.2 -56 54 5.25 84 12

175 103 356 2531

509 537

286 206 27604 12.2 -1005 -106 2807 7.5

14 6.23 1012-106 24 27.81

1012-106 1012-106

221598 22.26 3882

108 157 7.15 590 -1007-104 -10061+10016 27.00

4.5

-10085+1006

46 10.55 22.5

27.17 29.2 26.42 26.2

14 583 13 2243

10.800  
-57.000  
-4.500  
6.000  
10.550  
1288  
-22.500

-0.851  
0.436  
-0.293  
22.286  
35.310

0.276  
-0.104  
-0.955  
-6.170  
13.550

0.447  
0.894  
0.032  
20.225  
25.341

-0211  
 21  
 21  
 145  
 22  
 IC2610 + 4012 10 41.4 11.4 -64 08 764 830 274

P = 226.0 413  
 11 + 21 " 87 32 -006.7 + 0193 + 242512  
 -0108 + 00067 20 23 -0137 + 0146 + 24.05  
 -0088 + 0109 10 54 + 0059 + 0074 + 12.13

5.90  
 49 26 -0210 + 0184 + 25.5

-009 + 011  
 109 24 -0100 + 0141 + 32.4  
 62 69 -0155 + 0092 + 16.0  
 754

-0153 + 015  
 -015 + 014  
 + 24.5

- 32 + 33  
 -0023 + 007  
 -60262 + 0103  
 + 21 + 42  
 -00241 + 0145

-002 + 014

-061 09 3002674 495 -15 -63 +05

B3E

4222

(678)

$\frac{312}{144}$   
 $\frac{144}{456}$

10 458

-64 07

B3E

93667

14958

217 1454

-078 +092 +306

(52)

2.458E

IT2682

x160

$\frac{184}{490}$

4.7

x126

-018 +009

± (7.0)

-2.3

$\frac{7.0}{-2.3}$

<sup>118</sup>487-063096301 2.674

77



1502# 4.3

15016 # 5.7

10.29 - 5.5

100 - 10024 - 100  
1000 - 10000 - 1000

24

1.670

1.234

1.618

642

10014

10.87

4204

1.613

23

686

10.13

10.72

WARD

93544

AB 11/14/49

10 446 - 164 00

- 0004 + 47

+ 002 + 44

110085

091

- 0016 + 003

5278

64

0901

- 0023 + 002

5837

~~29,903~~

784

6962

5802

116

5822

110003

423

5728

9

base

5764

4245

10 423 62 42

934-4-14  
63 1023

80  
18102 94

10000 ± 43 + 1023 ± 1410

1030 + 1002  
1038 + 1009  
48.53 53.97 6.7

177.976

69.570 5-3.87

18,003

18  
53.44

1804

4104

53.70

23  
104

9  
53.74

4214

UD 44.14 - 6.9 18

- 103.1646

27.574

117

- 100.29 + 8.6 - 0.14759

93540

~~188~~

11.2

- 100.33 + 0.03 - 1.110 88

22466

1000

3.13

~~348~~

~~93~~

~~18~~

~~324~~

22575

9147

2.30

~~28~~

~~4~~

3.34



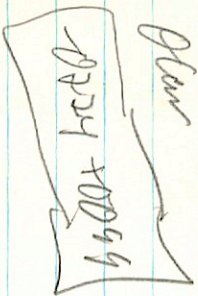
IC 2602

10 41.2

-6905

Y148

Plan



"  
 $\sigma^2 = 1000$   
 $\sigma = 31.6$   
 $\pm 10034$

155P

$\rho = 124.3$  km/sec

85 km

+0351 +0070

-0106 +0034  
-0145 +0144

+0421 pm  
+0410 pm

-0110 pm  
-005 pm

-843 +424 -331  
 +255 -228 -940  
 +474 +977 -084

+5.5  
 $\frac{2.2}{2.9}$   
 +5.4 +1.1 -8.0 -1.4  
 -1.4 -0.4 -2.2 -2.9  
 -3.1 +2.2 -2.0 -2.50

$X = -50$

$Y = -141$

$Z = -13$

5.58-06-63 (+15)

4324

11 05.0 -70 36

B2-15

96706

-002 084 226 2662 5.15

(+7.4)

-026 -005  
168  
394

-19  
7.05

2000 L 1000  
FRS

7782 4473  
6281 0729



11.000  
56.660  
146.500  
37.500  
1.600  
21  
-15.600  
  
-0.860  
0.131  
0.493  
-305.054  
-14.057  
  
0.307  
0.904  
0.296  
278.070  
1.186  
  
0.407  
-0.406  
0.818  
82.899  
-11.033

4239.000\*  
  
11.000\*  
5.000\*  
-70.000\*  
-36.000\*  
-0.026\*  
-0.005\*  
7.050\*  
257.040  
7.400  
  
0.099  
-0.409  
  
22.537  
  
-0.032  
-0.897  
  
-14.925  
  
-0.069  
-0.169  
  
-19.096



$4155 \quad N_5 C_{2002} \quad 10 \quad 39.5 \quad -64 \quad 570$   
 $n-4 = 5.9$   
 $v_6 [2.61]$

92664

5.52 - 17 - 576 C

$540 \quad 622$   
 $M_V =$

$414$   
 $15.6$

$-874 \quad 118 \quad 397 \quad 2.707 \quad 5$

$105 \quad 412 \quad 2764$

$\frac{210}{622}$

$\frac{062}{062}$



$-5024 \quad +35 \quad 27.5$   
 $-0045 \quad GC +$

-10306

$0010$   
 $7.2$

$-6195$   
 $27$

$+297$

$-0.17$   
 $1000$

$M_V \text{ (Strong)} = -1.7$

$M_V \text{ Clark} = 0.5$

13.66  
4 18.9  
13  
112  
6.44

4185.000\*

10.000\*

38.500\*

-64.000\*

-50.000\*

-0.017\*

0.003\*

7.200\*

275.423

29.700

0.074

-0.335

10.382

-0.024

-0.937

-34.344

-0.026

-0.099

-10.133

4388 11 065 -61 40 89 L C

(-224)

96919 11.1

5.12 +0.24 -0.44 @ 5/1 -

15331 Mill

.256 +0.68 +0.91 2.532 @ 5/5

~~224~~ ~~10.15~~

$\frac{136}{427} \frac{103}{309}$

~~224~~ ~~22.44~~ ~~10~~ ~~24~~

-070 13 +001 N 30

222 801 328 2534

-071 73 40044

246

E = 441

+0008  
+134

446

-0123

$V_0 = 3.9$

~~87684003~~

MV -4.35

1025

4329

96706

15205

11 05.0 -70 36 030

5.58 -06 -63 C

±6.9 ±3.7

28.572 11.5 -00 29 400 83.56 06.0

11/693

0020 -014  
0024 -006

0027 -007

28.611  
+14  
625

0027 -007 40.25  
0027 -007 33.44  
020  
0504

0204

-018.5+002

28.591  
+96  
1515

33.63  
-49  
92  
45.11 6974



Observer:

-1.047

STA

-0.025

-0.001

4.536

-0.932

-0.015

50.447

-0.361

0.038

-22.400

1122.018

10.250\*

0.003\*

-0.008\*

-40.000\*

-61.000\*

6.500\*

11.000\*

4338.000\*

Comments:

6.87-09

5.0221

1.85-224  
8.75-025

4342 11 08.7

-58 12

84

97271 10 6.5.7

2.2.4

-037 104 538 2.7741 slt

-1030-0107  
-0237

93 545

-022-103  
+17.36

186  
731

-6034-010 GC + 6.91-039105561 2.732

93 564  
189 955

$m_1 = 2 - 0.45$   
 $10 \frac{6.75}{7.20}$

-1034 -1045

6.4 - 0.24 104 561

6.75

-0269

-025 500

8433 -9414

5374 -1312

-0040 +817 -007 +6.3  
 -0029 520 7.13  
 -0020 9.12 1500.3  
 +35  
0.77

441679 15046  
 1825  
86

-5020  
 -507

60.3 1944.4

44.76  
 +0.18  
 -0.14  
 +20  
 44.994  
 882

40.017  
 4.64  
44.912  
 44.94  
 811  
 15  
44.96  
 206

-19  
 +0.5  
 -31  
 00.75  
 -02  
 52.66  
 8.10  
 0.24  
 1.09  
7.11

1526.83

-34

3482

-91707 4-0009

3/12

~~3481~~

10 05.7 +12 12

E2102

+3.5

1.35 -11 -36 R7E

1.29 (245)

[2-6] 914

2500  
244000

Φ 2.723

914

-01694 +0626 F124

-9596 -785

-01502 +003

28B -6.12x

-0.240

-17.631

22

-0.656  
0.754

-6.905

11

-0.170  
-0.476

29.830

13

0.914  
0.453

3.500

30.903

2.450\*

0.003\*

-0.240\*

12.000\*

12.000\*

5.700\*

10.000\*

3982.000\*

57  
456 5 x26  
11 88.5  
-L1 48  
-E6  
116  
-45

4499  
101570

443 +1.13 to 81 C  
445 to 405 3 round.

-20  
-1  
24  
44

(44.0)  
-6024 -013 337 now  
-00220 -0094  
4.14  
3.85  
3.10

Wings?  
+1426

-0161  
-615 -803  
8741  
4857  
-9772  
-2106

-0020-011  
0024-0054

-0153

-014-001  
0134  
-0020  
24  
0032  
74

-0024 ± 6.1  
-0018  
-0020  
-0021

-005 ± 3.7  
-021

1905.4

45.72

22  
45.50

013

-0020 -011

1912.1  
-0018  
-0020  
-0021

31.105  
090

31.195

31.131  
+ 14

31.143  
-050

1800

31054  
24  
080

4543  
-30  
4623

4603

1540.68

-20  
4623  
-73

31.11

455 7546.15

31.11

-0.16  
31.11

454 194603

-79  
46.29



R.A.	:	11.600
DEC.	:	-61.800
PM. R.A.	:	-30.000
PM. DEC.	:	-1.000
DISTANCE	:	7.450
MODULUS	:	309
RAD. VEL.	:	14.000

q1 (U)	:	-0.875
q2 (U)	:	0.250
q3 (U)	:	-0.415
dU	:	57.610
U	:	12.000

q1 (V)	:	0.396
q2 (V)	:	-0.121
q3 (V)	:	-0.910
dV	:	-26.059
V	:	-20.793

q1 (M)	:	0.278
q2 (M)	:	0.961
q3 (M)	:	-0.007
MP	:	-23.236
M	:	-7.281

ME

STAR

Date: / - /

Observer:

108 125 9 52 20.38.5  
 113 240 5 1 22.7 24 109  
 541 113 240 11 49.0 - 50 27 A.I.V

-0064 ± 4.0 -006 ± 3.5

58.028 06.8

11.54 00.6

~~58.028~~  
91.58

-0052 -006

~~0055~~  
~~0048~~  
~~0052~~  
~~0064 ± 4.0~~  
~~009~~  
~~006 ± 3.5~~

~~53.56~~  
~~94.13~~  
 0397

-00465 -0012

1.8 5764

-0445 58.028 6.8

+30  
 11.54 00.6  
 11.24

-50.5 8150

(4.3)

-042 -009

276  
 58.028  
 .204  
 58.195  
 59  
 .136  
 58.103  
 -60  
 043

11.59 35.02  
 0

-66 -9765

0429  
 -0042

11.54 56.38

~~42-5~~  
 4.44

20 36  
 25 45

58.028  
 -37  
 .002

11.26 (64.37)  
 -19  
 11.16

+15

1.800  
-50.500  
-72.000  
-7.000  
4.450  
78  
15.000

0.747  
0.659  
-0.083  
-184.085  
-15.536

-0.625  
0.655  
-0.425  
113.944  
2.465

0.226  
-0.370  
-0.901  
-36.799  
-16.375

1.800  
-50.500  
-66.000  
-5.000  
4.400  
78  
15.000

10.4  
0.747  
0.659  
-0.083  
-164.317  
-13.711

-13.33  
-0.625  
0.655  
-0.425  
108.845  
1.877

3.82  
0.226  
-0.370  
-0.901  
-36.215  
-16.265

-13

13

12

-12.11

Y 211000

4554-800

203500  
19900

11512 + 5359 4000

103280 5923 1188  
0891 779

16268 9964 1400  
113.5

10046 - 0949 7914  
2000 114  
-355 +233 +83 -44.5

1371  
+302  
+925  
+100

10103  
101017

10103  
101017

09331  
0941025

2.44 00 +0.1 5

026 153 1.113  
002 152 1.112

008 134 1.118  
007 144 1.116

1.98 270  
1.115  
1.387  
1.401

1.401  
69  
3.110  
1.110  
1.110  
1.110

1.66  
10.5  
1.66

1.66  
10.5  
1.66

2893 50 545

2895 32 510

1.62

11.850  
54.000  
160.000  
12.500  
1.900  
24  
-14.500

-0.875  
0.311  
0.372  
-371.522  
-14.306

0.431  
0.850  
0.303  
242.352  
1.426

0.222  
-0.425  
0.878  
73.920  
-10.951

9/25

12 063 -40 57

$18.909$   $11.1$   $-0.027 \pm 6.0$   $-0.14 \pm 4.6$   
 $15014$   $-0.019$   $-0.023$   $11.52$   $6.7$   
 $18.929$   $70.53$   $-0.021$   $-0.021$   $11.92$   
 $14$   
 $\frac{14}{543}$   $11.42$   $11.73$   
 $18.975$   $41.20$   $-31$

$18.925$   $55.44$   $11.69$   
 $5$   $-43$   
 $920$   $121$



4635

12 685 -22 19 42

105850

16634

5.45 +06 (+08) L

2

5.47 026 175 1.029 2588 12322

1.2 45

15

180  
360

039 = 6

1.74

1024 / 01327

1284 / 422

0136

111c

-063-022

10044-028

0-0223

4675

-064-018

41.5  
3.55

9850  
1728

-8696  
-4935

0013  
10114

024 = 24

0047 # 2.5

29.107  
29.201

2.8  
2000

26.46 87

225  
22

28.596  
995

20.00

26.90  
27.10

28.596  
29.102

6706

26.061  
-33  
26.94

29.122  
4.9  
136

41.48

26.33  
+19  
26.23

Observer:

166 0-

/ - /

STAR	079° 0' 221° 0'-	TIME
	19° 56'-	
	0° 232' 0° 193'-	
	10° 302'	
	0° 283' 0° 217'	
	000° 11' 61° 660'	
	0° 950* 0° 022* 0° 053* 19° 000* 28° 000* 8° 500* 12° 000*	
	4635° 000*	

Comments:

5.75 -14 1.26 +0.12

46.48

12 10.8 -28 35

84.76

106.231

-42.0

-0.58 0.79 4.27 2.611

6.68 4.39

13.6  
3.75

5.4

~~-0.25~~ = 0.12

-3.05

8.65

+0.285 -0.205

+0.286 -0.173

-0.318

-0.30 -0.13

9.580 2.866

4.83

8.326

10.014

1.22

4.491

0.2461

000846.7  
-0192022  
3.61 85.2

48.188 95.1  
44  
732

10031

86  
278

48.576 20.58  
418  
18  
436

48.541  
19  
841

3.94  
24  
418

50.15  
18  
436

4648.000\*

12.000\*

10.800\*

-38.000\*

-38.000\*

-0.035\*

-0.012\*

8.650\*

537.032

-47.000

0.126

-0.386

86.067

-0.095

-0.833

-11.791

-0.076

0.397

-59.442

9669 12 144 - 65 24 40

No und

Q24

6.07 + 6 172 501 2.884

174 900

348

1248

41.0



501.30  
500.00  
2001.2

-10075 ± 9.5

-1113 ± 7.5

22.730 3.5

53.77 99.5

1.757

20.492  
18.735

2.228  
2.228

22.515  
22.515

83.77

30.30

54.07

2.11

53.96

2.4

57.52

2845

4675

12 15.0 -35 49 6.15 A05

Skag

8 22 = 0.1

-040-010

1225  
-358

-016 165 1001 2506

-039-002

Skag

-48  
-6

(160) 1004

-004-016

565

-10394-013

H6

-0482

9641 -88N

2907 -97b

0.131  
0.887  
0.443  
-49.440  
-4.011

0.482  
0.334  
-0.810  
-98.357  
-18.131

-0.867  
0.320  
-0.383  
150.808  
18.043

12.250  
-35.800  
-48.000  
-6.000  
5.650  
135  
6.000

101570	11	38.5	-61	49	ALG	+14.26
16037		4.54	+1.14	+2.08		
7093						