

824 1 29.2 -30 15 +12.3 (4) C₃

H09349

60848

0972 0.376

+0157

10.663 18954

2.83
7.832

1.123

9.459

10.6020

5.19

5.19

5.19

10.6020

6.62 +089 (1.54) 6812

+0080

+0053 ± 73

+0077

+0065 +0445

+00674 +0454

-0.20 C.P

+040 ± 6.0

+049

3243

-2.30
3473

7246

46.462

36.00

36.50

+42

34.00

34.00

36.57

+0078 -035

+3

+0081 -034

1892.5

+1.05 -034

1929.86

6.176

30.88

3

1.84

34.00

1921.9

36.57

264

9619

1 313

-44 10

104 10

440187

0182+047

stuy

(204)

0196 +049

177

104

2108

984 450 311 403

(458) (305)

+ 213 +045

104

9923 9600

- 1026 2799

2161

-0164

-3.1

~~2.2~~

022.8

3.21

25 ME

10K HLL 174 8.16

330 - 13 35

9782

4.249

the [199 199] 199 199

178 3.16 178 3.16

284 384 43.7 404 404 404

58.186 464 40162 40163 40164 40165 40166 40167 40168 40169 40170 40171 40172 40173 40174 40175 40176 40177 40178 40179 40180 40181 40182 40183 40184 40185 40186 40187 40188 40189 40190 40191 40192 40193 40194 40195 40196 40197 40198 40199 40200

98085

98086

98087

12.0

15.10 13.19 12.0

10.9 10.9 10.9

10.11

10.11

13

17,800	VEL	1	(U)
22,000	DULUS	2	(U)
22,000	TANCE	3	(U)
27,000	DEC.	4	DU
28,000	R.A.	5	U
28,000	DEC.	6	(U)
28,000	R.A.	7	(U)
28,000	DEC.	8	(U)
28,000	R.A.	9	DU
28,000	DEC.	10	(U)
28,000	R.A.	11	(U)
28,000	DEC.	12	(U)
28,000	R.A.	13	DU
28,000	DEC.	14	(U)
28,000	R.A.	15	(U)
28,000	DEC.	16	(U)
28,000	R.A.	17	DU
28,000	DEC.	18	(U)
28,000	R.A.	19	(U)
28,000	DEC.	20	(U)
28,000	R.A.	21	DU
28,000	DEC.	22	(U)
28,000	R.A.	23	(U)
28,000	DEC.	24	(U)
28,000	R.A.	25	DU
28,000	DEC.	26	(U)
28,000	R.A.	27	(U)
28,000	DEC.	28	(U)
28,000	R.A.	29	DU
28,000	DEC.	30	(U)
28,000	R.A.	31	(U)
28,000	DEC.	32	(U)
28,000	R.A.	33	DU
28,000	DEC.	34	(U)
28,000	R.A.	35	(U)
28,000	DEC.	36	(U)
28,000	R.A.	37	DU
28,000	DEC.	38	(U)
28,000	R.A.	39	(U)
28,000	DEC.	40	(U)
28,000	R.A.	41	DU
28,000	DEC.	42	(U)
28,000	R.A.	43	(U)
28,000	DEC.	44	(U)
28,000	R.A.	45	DU
28,000	DEC.	46	(U)
28,000	R.A.	47	(U)
28,000	DEC.	48	(U)
28,000	R.A.	49	DU
28,000	DEC.	50	(U)
28,000	R.A.	51	(U)
28,000	DEC.	52	(U)
28,000	R.A.	53	DU
28,000	DEC.	54	(U)
28,000	R.A.	55	(U)
28,000	DEC.	56	(U)
28,000	R.A.	57	DU
28,000	DEC.	58	(U)
28,000	R.A.	59	(U)
28,000	DEC.	60	(U)
28,000	R.A.	61	DU
28,000	DEC.	62	(U)
28,000	R.A.	63	(U)
28,000	DEC.	64	(U)
28,000	R.A.	65	DU
28,000	DEC.	66	(U)
28,000	R.A.	67	(U)
28,000	DEC.	68	(U)
28,000	R.A.	69	DU
28,000	DEC.	70	(U)
28,000	R.A.	71	(U)
28,000	DEC.	72	(U)
28,000	R.A.	73	DU
28,000	DEC.	74	(U)
28,000	R.A.	75	(U)
28,000	DEC.	76	(U)
28,000	R.A.	77	DU
28,000	DEC.	78	(U)
28,000	R.A.	79	(U)
28,000	DEC.	80	(U)
28,000	R.A.	81	DU
28,000	DEC.	82	(U)
28,000	R.A.	83	(U)
28,000	DEC.	84	(U)
28,000	R.A.	85	DU
28,000	DEC.	86	(U)
28,000	R.A.	87	(U)
28,000	DEC.	88	(U)
28,000	R.A.	89	DU
28,000	DEC.	90	(U)
28,000	R.A.	91	(U)
28,000	DEC.	92	(U)
28,000	R.A.	93	DU
28,000	DEC.	94	(U)
28,000	R.A.	95	(U)
28,000	DEC.	96	(U)
28,000	R.A.	97	DU
28,000	DEC.	98	(U)
28,000	R.A.	99	(U)
28,000	DEC.	100	(U)

R.A. : 1.550
DEC. : -13.650
1. R.A. : 249.000
1. DEC. : 27.000
STANCE : 2.900
MODULUS : 38
). VEL. : 17.900

q1 (U) : 0.775
q2 (U) : 0.566
q3 (U) : 0.280
dU : 961.771
U : 41.586

q1 (V) : -0.608
q2 (V) : 0.788
q3 (V) : 0.091
dV : -596.735
V : -21.050

q1 (W) : 0.169
q2 (W) : 0.242
q3 (W) : -0.955
dW : 225.198
W : -8.542

3

9772

-1428

1 23.0 -13 38.

155

-13.6

252

243 035

208

246 81

215

AR 1000

+0166 +37

9657

9826 2458

83

2555

1857 -1078

1028

1174

2.026

-114

218

174

461

2.026

2458

282

682

2458

2458

1028

282

2458

2458

0163 +041

2458

2376

+034

040 +03

2923

-0102

-18

0267 284

4.550
-15.600
258.800
38.800
2.888

37.67
11.888

0.775
0.565
0.281
994.983
48.797

+11
+3
-36

1.55
-13.6
247
31
286
11.8

-0.688
0.788
0.892
-558.598
-19.955

0.169
0.242
-9.955
238.764
-2.278

14

1.550
- 13.600
247.000
35.000
2.800
37
11.000

0.775
0.565
0.281
976.225
39.753

- 0.600
0.788
0.092
- 561.393
- 19.867

0.169
0.242
- 0.955
232.976
- 2.576

14

308
0240

250
1120

0240	6457	6843
1120	0240	1120

228 025

1 33.2 44 11

48185

9983 11 35.0 +11 49 0-54

+11.14 [M] [E] 422
+00715 +009 -036
+00713 +0097 311 376 NO
+00717 +0103 ΔSMJ

dr -001

10108
1200
121.5 +006.5

9462 9887 +1214 1216
837 0508 8 0003

+0080 +001 H
+0085 +005 Sunday

0134 0133

126 904 904

474 437

15

PM. DEC. 11. 1.000
PM. DEC. 11. 1.000
DISTANCE
RADIUS
RAD. VEL.
D1 W. 10
D2 W. 20
D3 W. 30
D4 W. 40
D5 W. 50
D6 W. 60
D7 W. 70
D8 W. 80
D9 W. 90
D10 W. 100
D11 W. 110
D12 W. 120
D13 W. 130
D14 W. 140
D15 W. 150
D16 W. 160
D17 W. 170
D18 W. 180
D19 W. 190
D20 W. 200
D21 W. 210
D22 W. 220
D23 W. 230
D24 W. 240
D25 W. 250
D26 W. 260
D27 W. 270
D28 W. 280
D29 W. 290
D30 W. 300
D31 W. 310
D32 W. 320
D33 W. 330
D34 W. 340
D35 W. 350
D36 W. 360
D37 W. 370
D38 W. 380
D39 W. 390
D40 W. 400
D41 W. 410
D42 W. 420
D43 W. 430
D44 W. 440
D45 W. 450
D46 W. 460
D47 W. 470
D48 W. 480
D49 W. 490
D50 W. 500
D51 W. 510
D52 W. 520
D53 W. 530
D54 W. 540
D55 W. 550
D56 W. 560
D57 W. 570
D58 W. 580
D59 W. 590
D60 W. 600
D61 W. 610
D62 W. 620
D63 W. 630
D64 W. 640
D65 W. 650
D66 W. 660
D67 W. 670
D68 W. 680
D69 W. 690
D70 W. 700
D71 W. 710
D72 W. 720
D73 W. 730
D74 W. 740
D75 W. 750
D76 W. 760
D77 W. 770
D78 W. 780
D79 W. 790
D80 W. 800
D81 W. 810
D82 W. 820
D83 W. 830
D84 W. 840
D85 W. 850
D86 W. 860
D87 W. 870
D88 W. 880
D89 W. 890
D90 W. 900
D91 W. 910
D92 W. 920
D93 W. 930
D94 W. 940
D95 W. 950
D96 W. 960
D97 W. 970
D98 W. 980
D99 W. 990
D100 W. 1000

R.A. :
DEC. : 1.600
PM. R.A. : 11.800
PM. DEC. : 0.000
DISTANCE : 0.000
MODULUS : 0.000
RAD. VEL. : 10

q1 (U) : 0.000
q2 (U) : 0.770
q3 (U) : 0.388
p1 : 0.506
p2 : 0.000
p3 : 0.000

q1 (U) :
q2 (U) : -0.613
q3 (U) :

133
 132
 131
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16

773

203

1.600
-49.450
769.000
132.000
1.330
18
5.200

v
-7
-17

0.770
0.631
-0.097
2219.349
40.444

-v
-7

-0.612
-17

648 116 124

10121

0921 360 -46 20

400 253

661481

70037 7012 sky

603

700409 70161

443

70423

RE RE 370

0475
7025
2225

7046 7012

9515 9530
6208 3029
1810

hs + 54

647

0050

650

55

6.57

40

700 M 201

0464
0022

0464
0022

4.56

+40277 +0145 +086 ^{Carrying}
363

+4 53

8.9 60

9.15 +0.418 0.213 0.469 2.600 (3)

+217 +42 L

400 338 898
310 350 148

L 0733

9489 9558 217
~~0917~~
3166 ~~1019~~ + 19

217 7/4 L

NO

P.V 3.85

0238

3.11

(NO)

17

8.800
8.000
8.100
8.200
8.300
8.400
8.500
8.600
8.700
8.800
8.900
9.000
9.100
9.200
9.300
9.400
9.500
9.600
9.700
9.800
9.900
10.000

R.A.
DEC.
R.A.
DEC.
STANTE
ODULUF
VEL.

01
02
03

BU
U

01

R.A.	:	1.600
DEC.	:	4.900
1. R.A.	:	0.000
1. DEC.	:	0.000
STANCE	:	0.000
MODULUS	:	10
VEL.	:	0.000
q1 (U)	:	0.770
q2 (U)	:	0.446
q3 (U)	:	0.456
dU	:	0.000
U	:	0.000
q1 (V)	:	0.000

6.34 2.71 147 0.494 2000

10262

+8.25

2032

1.15 37.9 554

+08 30 15

233 500

+0046 ± 30 +010 ± 26

56.697 1.5

25.62 98.2

+00806 +0146 20

+00504 +0153

0 +0165

9473 0703
3204 9975

0748

076 + 012

0767

0046

+3.7

0084 5.27



10503

+70266

1 34.9

+8 18

207 236

8.865

9.14 ¹²⁴ 0.412 188 503 21605(3)

+205 +028

¹²⁴
312 421

390 300 365 44.7

+0030

94329976 } 206
332206996 } 18

+16

0225

321

NO

+0138 4015



18

R.A. : 1.650
DEC. : 0.300
R.A. : 0.000
DEC. : 0.000
STANCE : 0.000
ODULUS : 10
VEL. : 0.000

q1 (U) : 0.765
q2 (U) : 0.417
q3 (U) : 0.492
dU : 0.000
U : 0.000

q1 (V) : -0.615
q2 (V) : 0.699
q3 (V) : 0.364
dV : 0.000
V : 0.000

q1 (W) : 0.192
q2 (W) : 0.581
q3 (W) : 0.791

10577

141.1 + 47 858

7.02 89

+470441

+039 -00 ✓

+034 -009

0350

-0028

-3.55

0034

704

9515 9843
3077 -1763

1410

1 41.3 #03 35

280 624 ✓

9411 952 ✓ 281
338 | 0974 ✓ 4
4250 155 ✓ 856

ND

0311

2154

10822

1 43.6

F6

17

(NO)

+00259 500.57

+00259 700.04

~~+00259~~ 100.71

PA 333 156 766 2628

(256) (399)

344 268 398 +4.2

0393

~~010 100~~

9394 995 0485
3434 0947 0032

[m] [G]

256 398

+59 12.7
+46 120 (NO)

+54 17 1600
+0059 1003

A +102 D -028

34.64 12.0

9968 -032

586 +1000
12.0 +1000

9352 9185 0447

36.720 0432 1116 (58.716)

3542 0900 -0051

-5.85 0250 6.57

10895 / 939 -44 10

301 307

+0083 +012 stuy

049 +014

+0086 +0152

+5.1

0925

[095 +018]

9786	0936
1918	0196
3164	-9.4

9873
1588 885

0099

5.03

11035
22007

1823 MW
SDH 187
187

8e 2e
45.4
KISH

1M9

Handwritten notes including "Handwritten" and "40074007".

840 + 0807
+ 840 + 0807
+ 840 + 0807

2
N10

5807 + 042

168

948 350 143 357 2407
248 327
327
248 248 248 248 248
248 248 248 248

5050 0905
4476 9444
2454 2454
9444 9444

605
3400
019

CFS 500

1 46.5 - 50 02
123 8

→ 404 604
→ 456 456
→ 404 604

121
0446

0.3

3

425

1234 456
789 012
345 678

10.12
94

10.12
456789

11379

1 45.0

8109

226F56

Story

44

414

+0160 +072

2.21 30.6 131 509 2411

+01618 +0724

3 (5.5) 400

223 448

(131)

2077

1000
840

324 254 907 4358

309

800

+210 +018.5

9692 9570 2208 P.V

2762 2960 6040 +0.50 0237

9710 9538 2209 3112

2390 3006 + 202

620
114

124

CFS 514 / 50.1 - 41 57 12-P d-m

+435 +1506

+444 +135 Caper

440 +140

9836 9416

1806 3067

4601

-16

-16

0488

1.75

1109 +354

10.70

11537

5 44

/ 50.3

-39 00

662075

252

97914

804 157 155 847 2289

top 1 top 1 Stang

(246) (816)

+00522 +0185

138 240 820 +225

E=011

made 570

+0608

+064 +014.5

155 240 777 225
8.0
146
189 +2.0

9744 9449 } 0652
9706 9416 } -0072

P.V. = -6.6

9722 9322 0649

2342 3121 -0046

-4.95
0070

6579

mod = 5.79

G159-9

01 50.9 +01 33

420 052

9286 938
3711 1114

423
005

+0.5

0975

2911

√

080514

1545

1545

055

0050102

80148 +0104

0502

9680	9999	2121
9445	6089	0035
		+025

+0143	554	000264
		+0064
		+017
	1764	411

4420

306

2049	25
634	
643	
+3644	

1507 3589

+10	1517
	1600
	(5810)

187 = 337

+0106	1008
+0104	1010
+0104	1010

187 354

-11	151
	151

211
212+0065

1514

19

1.200	R.A.
12.800	DEC.
0.000	R.A.
0.000	DEC.
0.000	STANCE
10	ODULUS
0.000	VEL.
0.735	d1 (U)
0.334	d2 (U)
0.289	d3 (U)
0.000	d4
0.000	U
0.031	d1 (U)
0.027	d2 (U)
0.413	d3 (U)
0.000	d4
0.000	U
0.248	1 (M)
0.875	2 (M)
0.235	3 (M)
0.000	d4
0.000	M

M

R.A. : 1.900
DEC. : 15.800
R.A. : 0.000
DEC. : 0.000
DISTANCE : 0.000
MODULUS : 10
VEL. : 0.000

q1 (U) : 0.735
q2 (U) : 0.336
q3 (U) : 0.589
dU : 0.000
U : 0.000

q1 (V) : -0.631
q2 (V) : 0.657
q3 (V) : 0.413
dV : 0.000
V : 0.000

q1 (W) : 0.248
q2 (W) : 0.675
q3 (W) : -0.695
dW : 0.000
W : 0.000



11588
-450203

(NU)

1.546 45 04

PLD

9921
~~9929~~ 9346
~~1770~~ 3556
1882 3556

+0052 +026

+0551

+059 +022

+0630 ✓

-0004

(5.78) -0.3

0004

5.90

+0.15

924

8.82 308 160 460 2.046

590

(252) 398

2.90 305 247 436 .13.7

301

39

+0.7

Blow +007

11988

1 54.6 -45 04

45.20

9821	9347
1885	3554

0620
0000
0.0
0066
5.91

10.15

052 026

0551

058	022
-----	-----

8.82 308 160 420 2646

252

395

+39

12068
-29.664

1 55.6 29 05

WU

2.5 77

209 048

9608	9554	2439
2772	2954	-0159
		-3.2

+0.2
~~+0.20~~

0232

3.17

~~8.26 411 195 422 2.601~~

370 340

+4.5
+4.5

8.26 425 202 438 2.604

330 350

+4.65

AID

12206 / 57.0 - 26 40 629

27655 10.0
62401 10.0

417 #13
4660

+023
+025 #55
+0247 #52
28.0 8.4

1-443 9.7 +005

-109
26.57

+0049 +024

26.12 - 38.52

988.0

8251

58.89
28.82

+0157

255
552

4068 + 8904

606
6986
9556
0456

0204
1100

606
6092
8442

-035

0077 5.56
0014-13.6

G224-135

1 52.6 -27 18

.316 77

yes

+289 +25 G

~~+300 +100 G~~

+308 +71

Mean

9602-5442

285 2481

Lighter

315

-24

-6.15

0.332

2.84

-335

0.34

2.33

898
1172 +898

0.86

FS 546

1 58.8 -46 05

328 062

9800 9261 3272
1486 3772 -0663

+0000
+0039±10.6
+0052
+001

12402 12402
2450
1117
+0062 6.5
15.707 1910.0
+0057 +002

15.001

6-17 +0.34

1908.1 +068 +008
+051 -005

9103 9971 0830
4184 -8762 0033

21
34.49
+060

-156
551
15.641
6.54
6.54
18.9
+099
+000-102
+000-102
+000-102

34.76 1927.95

+063-003

+3
+13

34.7 1929.8

28.9

20.9

34.62
34.69
+2.0

15.841 576 34.74
5.34
+000-102

34.70
+000-102

498 868 473 981 1060 000 +16.2 0 +8 0

-030 0 052 0 ~~-142~~ ⁻¹⁴² 246 +14.3 +12 +8

-12 +49 +8 006

-8 +43 8 007

+17 -17 +3

2

KH8132H

2 00.3 05 46

FP644-2H

570 033

9206 9861 } 568
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