4.03 1191 890 216

120164 13 44.8 +38 48 5.6 gCG −10.30

18636

8139 1884 −0120 32 −024 32 N30

366 626 −0119±3.4 −022±2.4 GL → N30

ABS18L W3 50 [M] = 0.615 619 | 474

01222 −0227 [C] 0.292 324

01230 −0226 −181

PN5 SMM −19 −168

−0112 −016 −16

−1937 −131 −016 −103 4.97

−141 −019 −10.3

0 −0114 −024 351

BDS6632

5186 13 44.9 +38 48 120 +11

120164

1863b

5.47 +104 +0.84 3 Σ

5.05 +0.36

8.98 +0.54 +001 2 Σ

2 .347 [.230] [.267] 2.606

+0.25

2 Cen

-0038 ±3.2 -064 ±2.8

-0034 -060

120323 13 46.5 -34 12 [illegible] +40.7a

1+R5152 120323

18446

8152

4.20 +1.46 Egg

4.14 Mm +1.50 Cone -047 -064 G.E.

4.10-4.18

32.427 1905.15 -34 126.88 1900.8

160 +3.15

.596 3.73

-25 -46 +3 023 +1

-17 -46 +4 014 0 32.487 6.65 1940.70

-13 -54 -2 010 -1 -16 -11

.471 G3 6.04 131

32353 70.17 7.96 32.427 43.4 6.89 1957.6

364 -20 -05 -28

8.16 .422 2.17 97.88

447 6.60 48.9

-149 -2.87 48.1

-448 -894 -562 +827 -047 -064 +40.7 036 -23 -251

-021 016 042 -032 052 275 +33.7 -80 -15 023

-28 -3 -44

-25 -46 +3

-26 +5 -41 014

-27 -46 +4

-25 +13 -48 010

-13 -54 -2

R.A. : 13.250
DEC. : -54.200
R.A. : -48.400
DEC. : -50.000
STANCE : 5.210
ODULUS : 139
VEL. : 34.300

q1 (U) : -0.253
q2 (U) : 0.142
q3 (U) : -0.541
dU : 100.474
U : -8.844

q1 (V) : 0.622
q2 (V) : 0.479
q3 (V) : -0.619
dV : -254.830
V : -54.511

q1 (W) : -0.215
q2 (W) : 0.865
q3 (W) : 0.454
dW : -205.204
W : -12.891

| | | |
|---|---|---|
| R.A. | : | 13.750 |
| DEC. | : | -34.200 |
| R.A. | : | -48.400 |
| DEC. | : | -60.000 |
| STANCE | : | 5.710 |
| ODULUS | : | 139 125 |
| . VEL. | : | ~~34.300~~ 40.7 |
| q1 (U) | : | -0.753 |
| q2 (U) | : | 0.149 |
| q3 (U) | : | -0.641 |
| dU | : | 100.474 |
| U | : | ~~-8~~.044 -12.9 |
| q1 (V) | : | 0.622 |
| q2 (V) | : | 0.479 |
| q3 (V) | : | -0.619 |
| dV | : | -254.330 |
| V | : | ~~-56.511~~ -60.47 |
| q1 (W) | : | -0.215 |
| q2 (W) | : | 0.865 |
| q3 (W) | : | 0.454 |
| dW | : | -205.204 |
| W | : | -12.891 |

2 Cen
120323
GC18666
W8152

Y3149
-33 09 38

-13 -54 0 .010
-20 +1 +7 .020
-21 -34 +10 .030
-13

84635 -.070 -11 -56 -1
20165 -.047 -11 -58 +4

13 46.5 -34 12 2gM6 +40.79
4.20 +1.51 —
4.11 1.48

+40.8(6)
+40.2(1)

-48.4
-60
5.71

-047 -064

-040-047

-040-047

-48
-63
+40.7

-7843

-58

5884 -7845 5858

45582(7)

-442 -854 -562 827 -047 -064 +40.7 036 -23 -251

-021 016 042 -032 052 275 +33.7 -30 -15

-29 -8 -29 04

-24 -32 +11

5192 13 46.6 −34 12 gm6

120323

18666 0.1 4.2 +1.49 +1.4: 2.58 +1.56 Eq (7)

4.2 +1.50 +1.44 2.44 +1.445 Mean

4.20 +1.49 +1.435 2.51 +1.50

−0035 −063 ±20 2.13

−029 −057 new ±.003 +40.7 a .20 5.4

−0345 5.6

−032 −052

−00332 −0598 + 39

−0410

−039 −056

$m_V$ = 14.

$m_V$ = −0.5 ccw

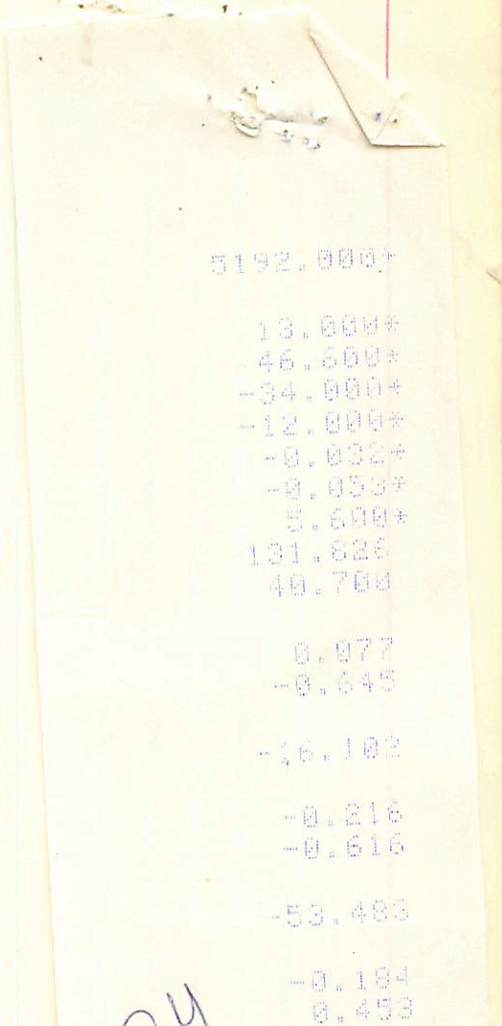
1.385

2.47 1485

+15

+11

5.3 5.45



5192.000*

13.000*
46.600*
-34.000*
-12.000*
-0.032*
-0.053*
5.600*
131.626
40.700

0.077
-0.645

-16.102

-0.216
-0.616

-53.483

-0.194
0.453

24

120771 13 48.2 +55 07 M4

7.55-7.75 +1.50 +148

~~9.76~~

-0055 -017 BC

-0064 -017 new(B)

120771 13 48.2 +55 07 8.2 g M4 3W

18705

8170

675(4)

11.299 1506.9 0.42 1504.4

11.301

11.251

0.83 1547.24

46.1

41.7

```
R.A.      :  13.800
DEC.      :  55.100
PM. R.A.  :  -89.000
PM. DEC.  :  -17.000
DISTANCE  :   9.800
MODULUS   :  631
RAD. VEL. :  -9.700

q1 (U)    :  -0.7427
q2 (U)    :   0.6531
q3 (U)    :   0.136
dU        :  127.930
U         :  79.402

q1 (V)    :   0.525
q2 (V)    :   0.618
q3 (V)    :   0.476
dV        :  -200.672
V         :  -131.237

q1 (W)    :  -0.226
q2 (W)    :  -0.441
q3 (W)    :   0.869
dW        :  90.000
W         :  48.411
```

| | | |
|---|---|---|
| R.A. | : | 13.800 |
| DEC. | : | 55.100 |
| PM. R.A. | : | -89.000 |
| PM. DEC. | : | -17.000 |
| DISTANCE | : | 9.000 |
| MODULUS | : | 631 |
| RAD. VEL. | : | -9.700 |
| q1 (U) | : | -0.747 |
| q2 (U) | : | 0.651 |
| q3 (U) | : | 0.136 |
| dU | : | 127.930 |
| U | : | 79.402 |
| q1 (V) | : | 0.625 |
| q2 (V) | : | 0.618 |
| q3 (V) | : | 0.476 |
| dV | : | -200.672 |
| V | : | -131.237 |
| q1 (W) | : | -0.226 |
| q2 (W) | : | -0.441 |
| q3 (W) | : | 0.869 |
| dW | : | 90.080 |
| W | : | 48.411 |

| | | |
|---|---|---|
| R.A. | : | 13.800 |
| DEC. | : | 55.100 |
| R.A. | : | -52.450 |
| DEC. | : | -10.280 |
| ANCE | : | 8.250 |
| ULUS | : | 447 |
| VEL. | : | -9.700 |
| (U) | : | -0.747 |
| (U) | : | 0.651 |
| (U) | : | 0.136 |
| dU | : | 74.586 |
| U | : | 32.000 |
| (V) | : | 0.625 |
| (V) | : | 0.618 |
| (V) | : | 0.476 |
| dV | : | -119.028 |
| V | : | -57.789 |
| (W) | : | -0.226 |
| (W) | : | -0.441 |
| (W) | : | 0.869 |
| dW | : | 53.633 |
| W | : | 15.531 |

25

G-150-50 13 546 625 43 138.2 (27)

Rosa102 1247 0.70

.714 171

065 409

+72

409

625

138.2

G65-22 13 59.3 +04 10 446 (76)

R85

11.55 0.75

(A) 11.32 ± 30s NG3

AT 8,567

Orbit

+170 −745 π

172

−745

4.9

+1916

```
R.A.  :    14.000
DEC.  :     9.150
R.A.  :   172.000
DEC.  : -745.000
ANCE  :     4.900
JLUS  :    95
VEL.  :    19.600

(U)   :    -0.722
(U)   :     0.556
(U)   :    -0.411
 dU   : %-2544.837
  U   : -251.090

(V)   :     0.636
(V)   :     0.767
(V)   :    -0.081
 dV   : %-2196.872
  V   : -211.379

(W)   :    -0.271
(W)   :     0.320
(W)   :     0.908
 dW   : %-1347.462
```

27

27

Ross 841 18 59.8 -5 28

G64-37

11.09 +41

+91 ~

-035 -340 Ross

-040 -355 Kuiper

-055 -445 G1

-045 -410

H4 R5 sd43

13 55.9 -05 24 +91 ℞ Md(3)

11.0g +0.41 +1.44 2 Alex

W8246

Ross 411

5=24

0 -40

0.39 185 Lusta

-035 -350 Ross

-40 -355 Lusta

-055 -495 G

-500 -866 -094 896 0 -.40 +91 038 -9 -1.885
477

0 019 0 -033 156 090 +90.6 -78 -45 01

-62 -36 -157

-40 -23 -483 .004

-250 -332 -187

-52 -30 -325 006

-192 -256 -102

28

64.370*

13.000*

122196

-37°09083 13 58.1 -37 48 F5 -23.0±5.5

952
122196

8.68 +48 -18 2 15" 22.6(7)K -4 Quiet -22.8

8.73 +46 (1.49) F5

Fe/H 1.76

S = 20

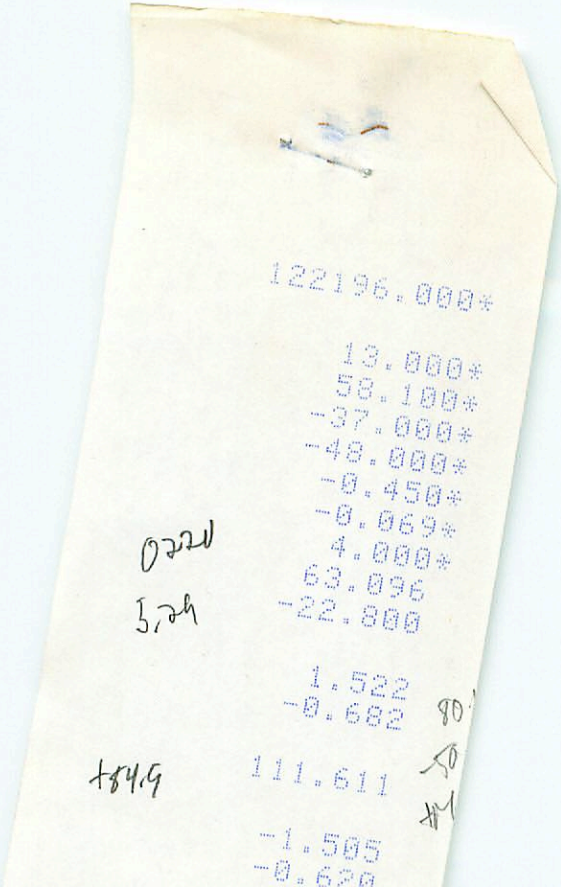
8.70 +47 -0389 -077 ±9 CP
+62 "461
3.

8.73-10.96 1.49

-22.5 FRY -460 -776 CP
+10 +7
-0380 -073 +6 -450 -64

-450%

-450 -064


122196.000*
13.000*
58.100*
-37.000*
-48.000*
-0.450*
-0.069*
4.000*
63.096
-22.800
1.522
-0.682
111.611
-1.505
-0.620

824 505

122196 13 58.1 -87 45 FS VI

~~8.78+46~~

8.68 +0.48 -0.15 (2)

-22.8 a

-0380 -073 Y+12 F=14 42

~~-0.0~~

-450 -0.9

```
122196.000*

    13.000*
    58.100*
      .000*
```

Ross 885 13 593 + 9 10

G65-22

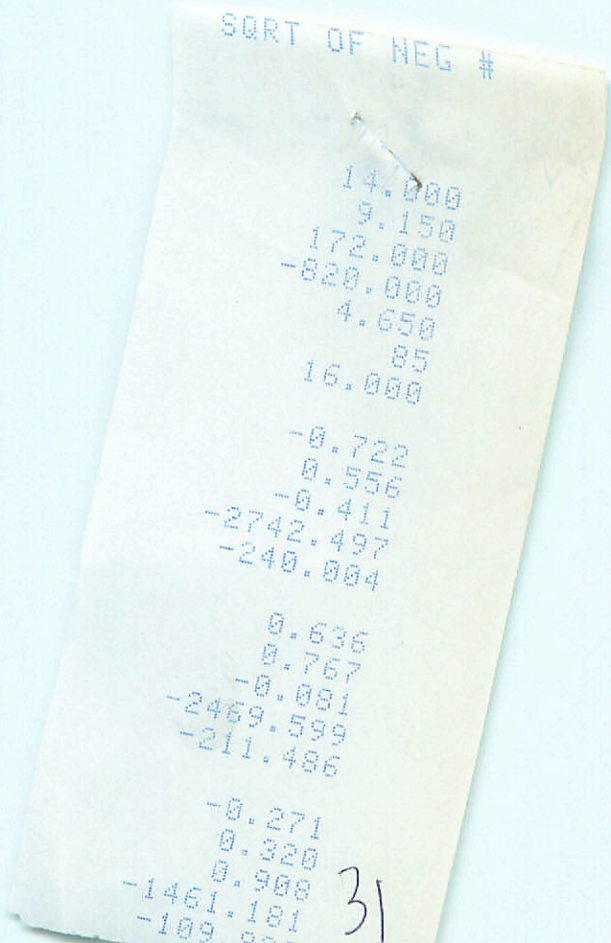
11.57 +0.76 +0.09 SAP
11.32 +0.80 (2)

209

+16 : (1)
+155 — π (2)
+240 −850 Ross
+180 −840 Gicha
+174 −764 Ly
+170 −820

9 06 57 10

465


SQRT OF NEG #
14.000
9.150
172.000
-820.000
4.650
85
16.000
-0.722
0.556
-0.411
-2742.497
-240.004
0.636
0.767
-0.081
-2469.599
-211.486
-0.271
0.320
0.908
-1461.181
31

HS

W8246 13 5&2 +09 11 sdG3 +1.6 d md(1)

CC825 11.6 π=012

R938 11.61 +0.72 +0.08 1Sm Ross

(122) +24 -85 Li 20

106
+161 Mo

+145 Y(R)

-1M±11

+17±14 Yale

−497 −868 160 987 +24 −85 +16 −136 +3 −3.975

019 −068 −208 118 0 −1308 +15.8 −14 −8 012

−14 −117 −328 +90

−257 −B9[illegible] ?

−201 −122

−14 −138 −395 01

−306 −244 −150

015

−14 −95 −262

−208 −142 −54

−1 −102 −153

−24 −7 52 244

14 −7 19 −153

12

−1 −84 −123

−7 43 −198

12 15 −123

G-65-22 13 53.3 +9 10

176-764

From 834

d

P=18.74

V +12.5

11.57 74

14.01

+5.15

19.16

-7.64

11.52

+19.1

9 Cen GC15033

,23139

W 8272

#8204

-25° 9260

14 03.7 -36 07.5 §64 +1.3a

1.95 +1.03 Egg(5") +1.3c(87)

1.95 +1.00 KOIII-GC +1.8c(19)

+5.6w(4)

w(+0.6)

-638
-518
0.75
+1.3

+28 -52 -25 .055

+26 -48 -5 .060

-522 -522 GC

-509 -520 #30

-510 -520

-520 -517 平均

767(8)

35c(7)

55½

-514 -858 -589 808 -510 -520 +1.3 306 -1 -1.950

-262 157 443 -266 0 2.843 -1 0

0 485

-0431±1.7 -522±1.7 -1+59 -42

-0432 -526

-36 7 29.63 1903.4

+32 -58 -29

43.891 1906.8

1.862

45.753

44.318

+4

322

2216

8.569

35.714

44.283

+16

+29

.270

38.9

44.072

-1.681

43.629

-5

624

+24.33

5.30

24.29 1939.48

-6

24.35

33.11 1941.3

-2.19

30

25.14

+16

25.00

27.56

-22.26

45.7

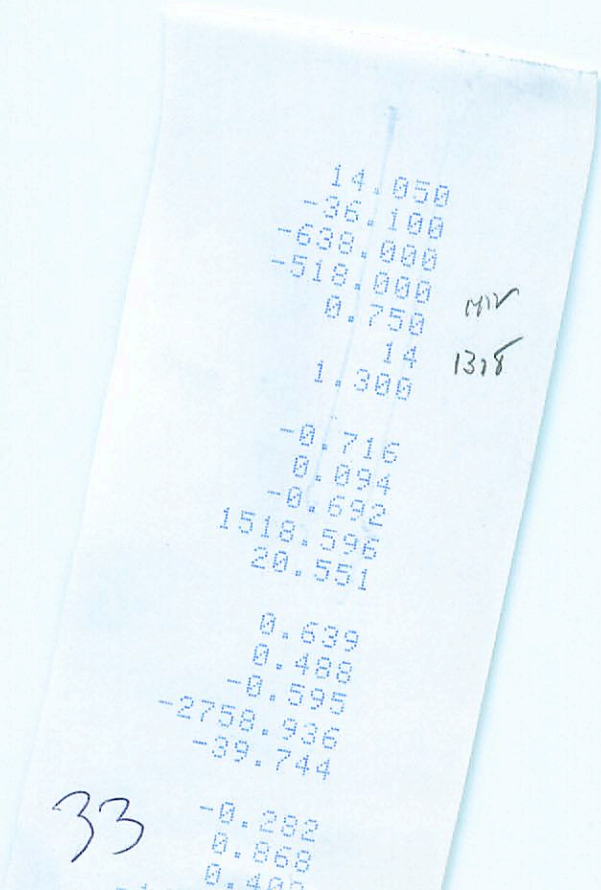
42.3

3304

-28

33.32

1956.28


14.050
-36.100
-638.000
-518.000
0.750
14
1.300
-0.716
0.094
-0.692
1518.596
20.551
0.639
0.488
-0.595
-2758.936
-39.744
33
-0.282
0.868

WCVm 14 64.4 +38 04

-027 012

1047

-34

-12

9.6

+22

14.040
: 38.050

123598 14 06.2 −19 01 9 M3 +58.2

GC19088 Ko 217

−7.88 −54.83

4.36 1.10
7.10 +1.595 +1.80 (6)
6.87 +1.05 (6)

6.9126

0.000 0.056
+58

−0.004 −0.056
+58.0

−0.02 −0.70
+0.01
+0.14
+0.02 −0.06

8.42
8.2
+58

−69 −116 −54
−7 −19 −19

The vectors given in this calculation are incorrect

R.A. :
DEC. :
PM. R.A. :
PM. DEC. :
DISTANCE :
MODULUS :
RAD. VEL. :


R.A. : 14.100
DEC. : -19.000
PM. R.A. : 2.000
PM. DEC. : -66.000
DISTANCE : 8.200
MODULUS : 437
RAD. VEL. : 58.000
q1 (U) : -0.70
q2 (U) :
q3 (U) : 0.290
dU : -0.643
U : -97.123
-79.667
q1 (V) :
q2 (V)

123585 14 06.5 +44 05 FDW pSr

~93.6423

Sr 4077 and 4216 distinctly strong; otherwise star looks like a dwarf; possibly long aster; looks somewhat weak-lined.

(Earth) 1015

+0032 -038 Y+C

+0034 -034

+47
-34
5.3

14.100
A. : -44.100
000

F21 14 OL.G +55 SK −57

FB123

13.38 −025 −1.07

−052 +30

−104
+30
−20
−57