

14 31 72.3 -85 57.0

149764 16 35.0 -89 03 6-46 A.P.S.

-38.11087

22254

16 35 06.44 -89 03 11.2

-0018 -027 sty
 -0013 -024
 -0015 (-016-022)
 6518 -634 0260
 8159 -854
 8159 -8248
 1019
 0043
 6.85

B-D 202 16 36.9 + 16.00

110 160

15 160 + 14 - 63

9762 649
2167 7212

Print

+52° 1986

16 35.7

+52 54

772 *

16 36.8

+52 49

16 37.5

+52 43.05

38.0

ADS 10/47; d1 = 5".6

-5041 } 2155

0114

+21 906

-205

-4909

8636

+21

906

32 900264

9.455

2.55

2175

247

5855

25

MCC-AC -120 + 183

20.5

9.82

K8 + 7.7

-245 962 -120

+1344 +8344

+19788

+34

620 244 744

-3526 +2160

-1366

-19

-745 -107 657

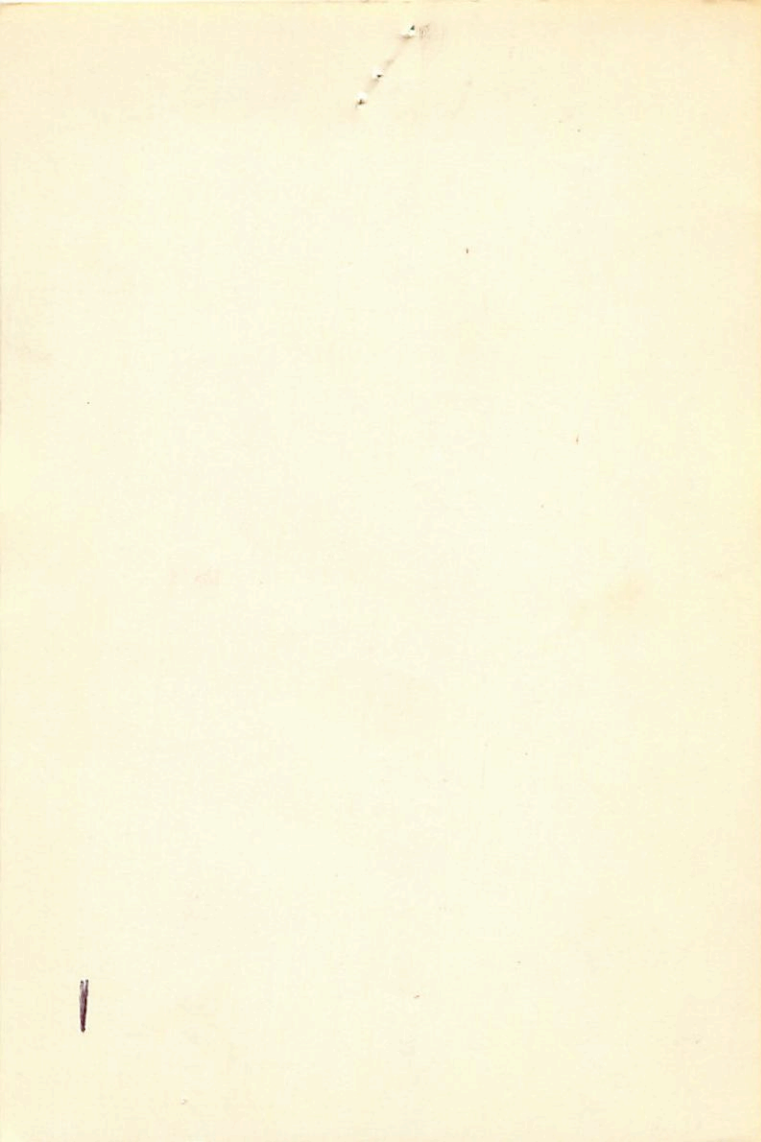
+4238 -0928

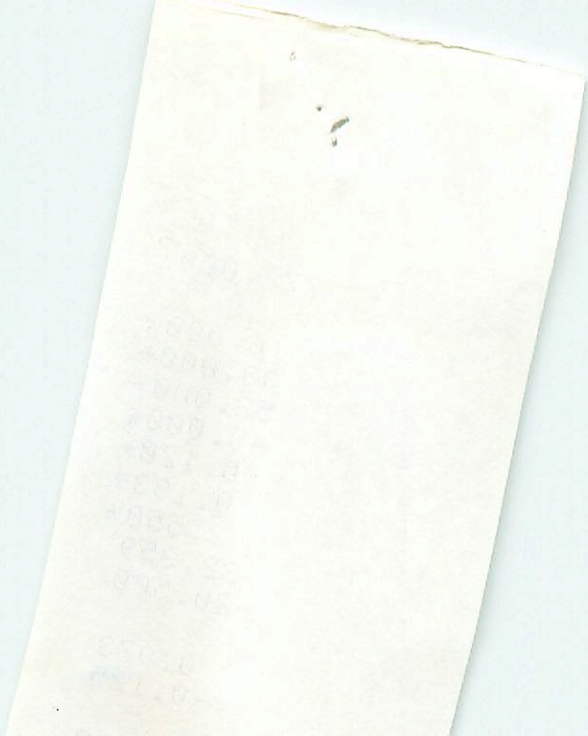
+3310

+10.6

-13.5

-3





772.000*

16.000*

38.000*

52.000*

43.000*

-0.120*

0.183*

2.550*

32.359

-20.500

0.973

-0.125

226-24 16 47.6 + 59 09

LP 10/1/16

0.33 1545 ✓
0.33 153 5

150 - 249 5

954

3166

6570

0930

9926

-53

142 304 7

6408

0875

4818

200

9501

420

45-0

240

152463

6534

6505

6640

1100
1000

1000-00
1000-00
1000-00

1000-00
1000-00
1000-00

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1000-00

See HR5017

23 11/10 28 18 181 201
23 11/10 28 18 181 201
23 11/10 28 18 181 201

575.00
25.50
200.00

362
362
362

338
338
338

338
338
338

6289 16 54.5 -50 34 B9

2422 -5123
-6701 -8388

152924 108 5.54 + 0.2 1.40

036 107 952 2.767 slash

118 945
286
1181

152924 (+13) hebbel

44 164
-50.6
-18
-40
63
-44

Frank

$m_v = -0.6$
60 5.15
5.75

cos 37 sin 7 15 = 0.401
-0.782 0.7319
cos 0 sin 0 2 + 0.11

-0.530 -5220

-0.135 -0.36 0.355
-0.115 -0.40 +0.93

1.25

FSD 185

25936 12.8 -0119 -0443y 5-2.07 74

91

-0024 -053

2.30

26.000

-0011 -034

49.87

-0013 -044

25975

-33

-0017 -046

51.32 3481

942

-0010 -0413

51.60

24.972

-15 -009.5

51.52 5724

957

-0115 -0410

12

51.14

25.954

52.41

20.57

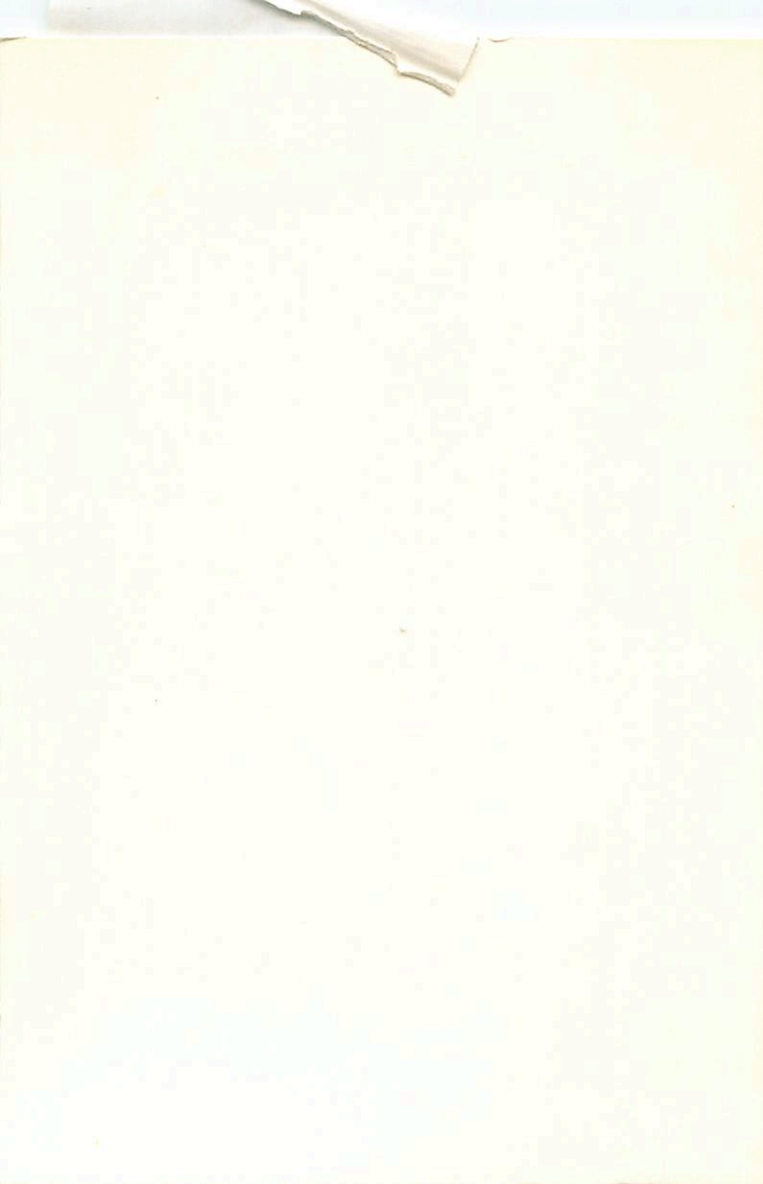
28

23

924

52.24

12



1727419

17 37

+41 54

G-0303

0.15 345 G

-039 +145

15.51 - 08

344

12.05

M07

7618	-2212
6478	8628

150.

-0018

-0.4

0205

3.44

161149

17

~0007±7.3 +027±6.9 225 FST!
+0005 +022
41.1±0003 +14 19 6.2 df 4 -42.46
+024

24052

0000 +0005 +0246
+0291

10241

5.172 1894.2 +14 18 58.67 1895.4

6004

038
210

+0022
+0005 +024

1.47
57.20

PK 5 50
+00041 +0231

5.229

4
233

40.5

58.11 1934.0
-6
58.05

+0006 +024

5.238

4
229

58.25 1939.49
-5
58.20

7349
36.7

231
+021

+0006 +024

58.12
+92

41.3

5.219
+0005
5.227 / .017

3950 - 4584
9887

58.06 1989.64
-27
58.79 1.59

3

17.700

14.300

5.000

29.000

6.000

158

-42.400

13354

17845

17846

5321

123157

165853

157

18

06.2

-20

"

-220454

-2201507

8.86 + 101

78

(P.D)
Eggs

9.11

2.44

9.115 + 0.50

Dr

(11)

P = 9.11

a = 0.115

Summs = 1.6

Regulus

-0.10

-4

-0.14

-0.12

-0.12-0.83

-2.90

2.184

-9633

0829

0.126

+1.185

0822

2.716

P.C = -43.8

15622

50.53

70.99

G112-82A 19 11.3 +18 31

D.12 180 G

Q18 1740 land

1405 - 029 + 575 *Handwritten*

019 - 129 + 18" 1540

020 - 100

1130
75
2.
No.

8190	3326	1751
5735	-9431	-0416
		-35

0563

1.25

45E-80107

15 20 4 20 59.5

11 12

68483

11 17

187
661
201
104

6610
104

Σ 3 1/2
1424e
201
8524e
104

1911.14

1911.14
111
512

18.81
510
155

1.657 801

1.841 1884

7.28

1800
104
201
300

1000
1000
1000

1010+104

1000+104

1000

142

1800
6900

1000
1000
1000

1800
1000
1000

100

104 84

10

1000
1000

104

10

1000
1000

+0002±2.4 +062±2.3
+0002 +064

172711 18 37.6 +55 12 } 6 dFL -12.57

25530

11116
Candlen

33.119 1894.5 +55 11 54.15 1891.6

+0003±064

-011
1108
701 231 861 AF0
-3.62
50.50

+0001±064

3.70
29.4222
33.124
701 10.41
21.7 19263
20.68
5238
5252
5291
7250
36.2

41.7

2 64

33.100
70
106 +007
115

711
1206

5299
5421 1946.20
-26
5395
53420
+2.86

44.6

4

18.000	R.A.
25.000	DEC.
34.000	R.H.
4.100	DEC.
80	STANCE
12.000	ODULU
	VEL.

0.200	01
0.270	02
10.000	03
20.000	04
30.000	05

0.200	01
0.270	02
10.000	03
20.000	04
30.000	05

0.200	01
0.270	02
10.000	03
20.000	04
30.000	05

R.A. : 18.600
DEC. : 55.200
R.A. : 2.000
DEC. : 64.000
DISTANCE : 4.100
MODULUS : 66
VEL. : -12.800

q1 (U) : 0.203
q2 (U) : 0.975
q3 (U) : -0.089
dU : 296.933
U : 20.756

q1 (V) : 0.416
q2 (V) : -0.004
q3 (V) : 0.909
dV : 1.163
V : -11.562

q1 (W) : -0.886
q2 (W) : 0.221
q3 (W) : 0.407
dW : 62.340
W : -1.086



+00
12656

19 835 +50 30

+5002819
18508

-24 + 29 1083

11

8.16
9.14

9.24 ym.

0.275

438 1.25
446 1.0
205

Revised?

Apr. 18, 1937, 72

+444

table

+0007+11004
+ 1 + 2

10100101	8644 3546	0906	577 and 5/17
5027	9350	020	

+0018 +085

+0009 +0936

584
1,0109 470

000

-42.14462

19 44.2 -42 08

V 3885 $\frac{5}{4}$

0.259d

6410

5365

0455

AK 2115

-45 \pm 20 before

-7675

-8434

10029

4. 1475

Bout, ASP 50, 216

3.4 65

(31.9)

0074,
5.65

few little for 50 yr -

R. Haug H. Drechsel. 1985 AK 151, 157

J.W. R. 1961
A.C. 215

30 24 22 05

000-424446

1961
A.C. 215

COO (204)

29410462

(474)

system

65409
+0025

10.23 +07 +09 +29 500

1925

R.R. 116

6318 5835 0410

(+477)

-7752-8354-

(800)

7551 19 471 +28 18 1.358374

M. M. M. M.

~~10000~~ 7110 1026753

82.445 0.2.6

+10000
-0000

~~10110~~
45.56

05.0

52.029

-014 +012 4

44.23

14446

-3
-022 +004

~~100~~
44.19

4408 (2500)

5303

+022
~~53052~~

~~42~~
43.94

1542.71

53011

-002
0.004

44.60

1528.04

-0.14
44.46

102
A = 501.8

10059 ± 5.6 +032 ± 3.6
+0650
+0059

189783
27754
12374

19 59.1 +10 37 | 25 dE4 -42.54
4.5 80 dFL -392

A0513256

3580 8765
7.5
9.0

w12374/5

4.5

33.14
-27
32.90

t087 +032 Gc

bm = 0.50

+085

Gc +

3.595 1893.4

t10 36

6.98 +435 +1005

-334
1261

-2.24
29.14

773
7866
617

473
12
+2.20

34.0
54.0

3.459
463

30.28
30.39

1933.6

4404 8237 1057
-8714 5671 -485

1934.5

86 minutes

37403

30.2
-29

30.15
+1.01

14458478
0182
37403

-863 456 184 583 +085 +032 ~~6~~ 006 -8 147

073 005 042 003 332 253 -418 -21 +36 02

66 PA

-4 +47 -1

$\boxed{+41 - 23 - 5}$

-8 +45 -2 025

+492 +609 -623
+204 +415 +762
~~-847~~ +102 = -178

+1924 +0808 +12732
+0799 +0816 +1614
-3312 +0666 -2646

+1 +51 +2 015

+18.0 +26.5 +44.5
+10.6 -32.4 -21.8
-17.5 +7.6 -10.0

$\boxed{+43 - 19 - 5}$

016

-1 +50 +1 017

0 +50 +1

+44 -21 -8

191046

20 046 + 86 06

NO. 11

7.00 + 1.16 + 0.95 (2)

6.48 + 0.45 (2)

-93.3 RD
-93.7 Bay

-93.5
-065 - 097 Hyd
-062 T

6.10
5.5
1.5
7.0

-4058 - 118 FNY (AGNI)

-060 - 108

-056 - 110

5

5.45

41.5

11.0

71.0

Ward 1069

20 260 + 58 24

20 260 + 58 24

247 553 L

also
0952 9601

208 581 2500

247 580

604
600
+ 51

583
242

1586

067 600
- 3500

~~583~~
242

1221 1142 - 0000

d. kgd

7557

19 48.3 + 8 44 A7D

187642

27470

534+38

97444

3.88+33.5

10550

0.74 + 23 + 0.8

F

+1.58
+1.58

B7 178 888

228

2.803 JG

26 181

26 181

And 51

88

171
972
Ave 180 Blvd

852-
518
5492

blid
0000

546
354
20.78
7.13

6

ITEM	QTY	UNIT	PRICE	TOTAL
1	1	CU	0.450	0.450
2	1	CU	0.250	0.250
3	1	CU	0.250	0.250
4	1	CU	0.250	0.250
5	1	CU	0.250	0.250
6	1	CU	0.250	0.250
7	1	CU	0.250	0.250
8	1	CU	0.250	0.250
9	1	CU	0.250	0.250
10	1	CU	0.250	0.250
11	1	CU	0.250	0.250
12	1	CU	0.250	0.250
13	1	CU	0.250	0.250
14	1	CU	0.250	0.250
15	1	CU	0.250	0.250
16	1	CU	0.250	0.250
17	1	CU	0.250	0.250
18	1	CU	0.250	0.250
19	1	CU	0.250	0.250
20	1	CU	0.250	0.250
21	1	CU	0.250	0.250
22	1	CU	0.250	0.250
23	1	CU	0.250	0.250
24	1	CU	0.250	0.250
25	1	CU	0.250	0.250
26	1	CU	0.250	0.250
27	1	CU	0.250	0.250
28	1	CU	0.250	0.250
29	1	CU	0.250	0.250
30	1	CU	0.250	0.250
31	1	CU	0.250	0.250
32	1	CU	0.250	0.250
33	1	CU	0.250	0.250
34	1	CU	0.250	0.250
35	1	CU	0.250	0.250
36	1	CU	0.250	0.250
37	1	CU	0.250	0.250
38	1	CU	0.250	0.250
39	1	CU	0.250	0.250
40	1	CU	0.250	0.250
41	1	CU	0.250	0.250
42	1	CU	0.250	0.250
43	1	CU	0.250	0.250
44	1	CU	0.250	0.250
45	1	CU	0.250	0.250
46	1	CU	0.250	0.250
47	1	CU	0.250	0.250
48	1	CU	0.250	0.250
49	1	CU	0.250	0.250
50	1	CU	0.250	0.250
51	1	CU	0.250	0.250
52	1	CU	0.250	0.250
53	1	CU	0.250	0.250
54	1	CU	0.250	0.250
55	1	CU	0.250	0.250
56	1	CU	0.250	0.250
57	1	CU	0.250	0.250
58	1	CU	0.250	0.250
59	1	CU	0.250	0.250
60	1	CU	0.250	0.250
61	1	CU	0.250	0.250
62	1	CU	0.250	0.250
63	1	CU	0.250	0.250
64	1	CU	0.250	0.250
65	1	CU	0.250	0.250
66	1	CU	0.250	0.250
67	1	CU	0.250	0.250
68	1	CU	0.250	0.250
69	1	CU	0.250	0.250
70	1	CU	0.250	0.250
71	1	CU	0.250	0.250
72	1	CU	0.250	0.250
73	1	CU	0.250	0.250
74	1	CU	0.250	0.250
75	1	CU	0.250	0.250
76	1	CU	0.250	0.250
77	1	CU	0.250	0.250
78	1	CU	0.250	0.250
79	1	CU	0.250	0.250
80	1	CU	0.250	0.250
81	1	CU	0.250	0.250
82	1	CU	0.250	0.250
83	1	CU	0.250	0.250
84	1	CU	0.250	0.250
85	1	CU	0.250	0.250
86	1	CU	0.250	0.250
87	1	CU	0.250	0.250
88	1	CU	0.250	0.250
89	1	CU	0.250	0.250
90	1	CU	0.250	0.250
91	1	CU	0.250	0.250
92	1	CU	0.250	0.250
93	1	CU	0.250	0.250
94	1	CU	0.250	0.250
95	1	CU	0.250	0.250
96	1	CU	0.250	0.250
97	1	CU	0.250	0.250
98	1	CU	0.250	0.250
99	1	CU	0.250	0.250
100	1	CU	0.250	0.250

✓

R.A. : 19.800
DEC. : 8.750
R.A. : 546.000
DEC. : 384.000
STANCE : -0.780
MODULUS : 7
VEL. : -26.300

q1 (U) : 0.456
q2 (U) : 0.592
q3 (U) : -0.665
dU : 2242.963
U : 33.150

q1 (V) : 0.235
q2 (V) : 0.641
q3 (V) : 0.731
dV : 1766.484
V : -6.890

q1 (W) : -0.859
q2 (W) : 0.489
q3 (W) : -0.153
dW : % -1305.653
W : -5.082

6

8-280-47

20 327 + 61 34

20 327 + 61 34

488 953 6-

542-907 45ND

1118 + 123 45ND

590

9534 5558	}	1055
3000 8012		0536
		+ 222

1152

-0.21



195820 20 29.9 +52 +0035 ± 5.8 +067 ± 3.6 +1.8 DD
 28574 +0049 +070
 12839 55.356 1902.9 +52 8 18.89 1897.8
 -165
 .191
 12.56
 42.740
 55.304
 296
 299
 348
 +157
 319
 348
 176
 19.50 612 7151
 16.60 35.8
 3.70
 13.2 19263
 -3.50
 15.39
 18.85 1945.24
 -33
 18.52
 18.04 +2.67
 18.04 8181 -580
 43.04

155580 20 55.0 +42 42 889 -15.48

W12163

7.9

1226 +220.8c
+221 +214.612

4223 4217

W12163

W12163

44 (20)

43013

XD 200 local
X 200 local

218 + 94 + 72

7.20 + 94 + 70 49.4m

8646 6396
-5028 7145

40051

~~-722 642~~ 675 735 +223 +217 -19.4 147 -13 753
161 106 ^{or} 154 102 200 1.232 114.2 -10 +10 04

-3 +41 +6

$$\boxed{+34 -15 -2}$$

038

-3 +42 +7

$$\boxed{+40 -15 -2}$$

035

-2

-4 +40 +4

045

$$\boxed{+37 -16 -2}$$

4

60545

21 19.3 +58 07

0.15, 200 0-150

15.64

13.01
2.99

4
1-3-15
-13.0

9932

-158

4452

-1160

-988

0282

2.5

6-V = 08 +13.245

0283

203

no /

Test Var? Aug? 88.52 4.18
7.13 4.50

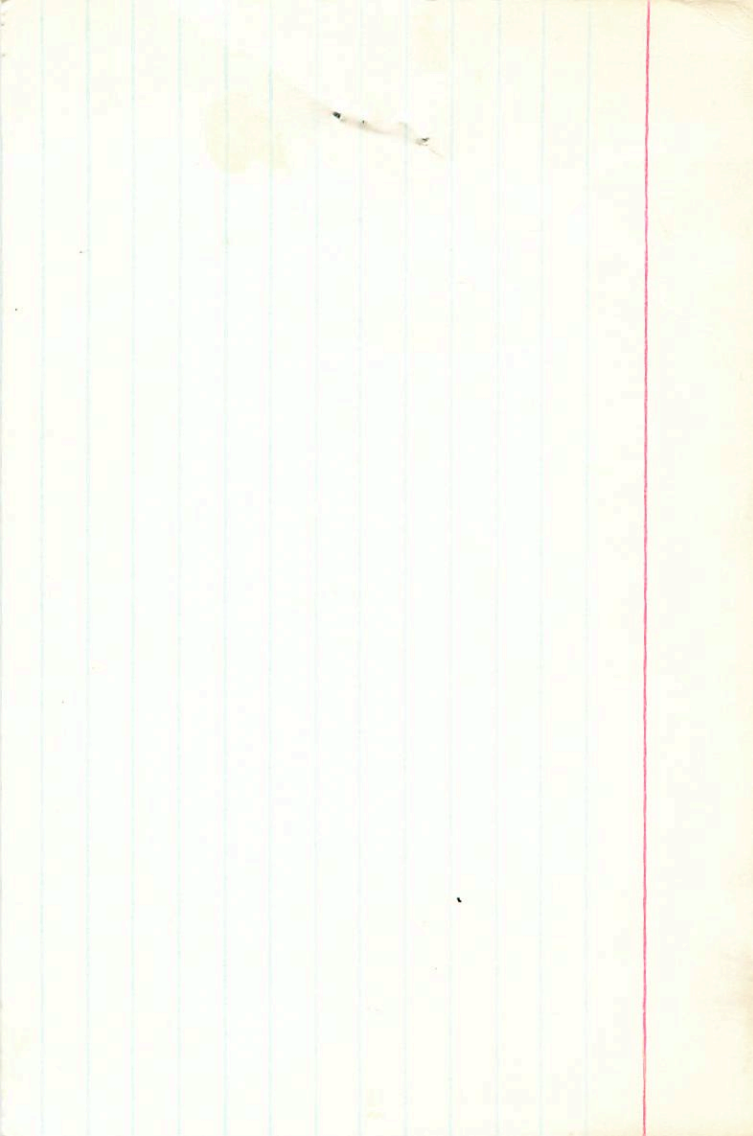
201707 2 / 8.9 -14 41 950
HR8102 644 889 1237

629612 Var 40 645 + 30 + 18 C TD.73
154084 179 180 415 2154 +240

202202 1.83 .170.530 2785 @ 10,186
648 193 167 902 2753 @ 234,82
155 165 516 2769

500: +410 -16 +10 7007 -392
+141 +17 -138 +500
9424 0467 542
1213 342
1213 342

154084
154084



$$\begin{array}{r} 75 \\ 400 \\ \hline 525 \\ 89 \\ \hline 39.5 \\ 525 \end{array}$$

$$\left[\begin{array}{r} +035 \\ 000 \\ 0048 \\ \hline 3.25 \end{array} \right] \begin{array}{r} 0380 \\ 6458 \\ 9914 \\ -2601 \\ -1268 \end{array}$$

8

R.A. : 42.158
DEC. : -14.780
PM. R.A. : 42.860
PM. DEC. : 8.888
DISTANCE : 5.428
MODULE : 121
RAD. VEL. : -39.208

d1 (U) : 8.488
d2 (U) : 8.208
d3 (U) : -8.448
d4 : 182.188
L : 41.448

d1 (U) : 8.888
d2 (U) : 8.208
d3 (U) : 8.428
d4 : 8.728
L : -17.81

d1 (U) : 8.428
d2 (U) : 8.208
d3 (U) : 8.428

R.A. : 21.150
DEC. : -14.700
PM. R.A. : 42.000
PM. DEC. : 0.000
DISTANCE : 5.420
MODULUS : 121
RAD. VEL. : -39.200

q1 (U) : 0.686
q2 (U) : 0.330
q3 (U) : -0.648
dU : 132.168
U : 41.445

q1 (V) : 0.004
q2 (V) : 0.890
q3 (V) : 0.457
dV : 0.72
V : -17.81

q1 (W)
q2 (W)

-0.70

-620 753 900 435 7215 +179 -9.7 141-9 370
 135 100 171 126 043 1284 -4.2 -3 +3 03

$$-2 + 44 + 3$$

$$\boxed{+41 - 19 - 4}$$

032

$$-2 + 43 + 3$$

$$\boxed{+39 - 15 - 4}$$

9

205067 21 306 -25 07 -26.6 40.5
7.92 + 66(1.72) 625 9.15

30170 7.58 + 0.66 + 0.208 -

+ 0164 - 070 Ac
+ 0171 - 074

030 + 11 - 19 - 3 2.30 \leftarrow 0.2 = 2.50 \rightarrow 2.70

230
- 0281
+ 220 - 073
+ 37.6
- 18.0
- 2.0
+ 39.0
- 18.7
- 4.2
+ 41.8
- 19.1
- 7.3

218 - 74
2592
- 6566
9554
- 2947
2317
- 1044
- 075
6559

0320
2.47

+0160 ± 8.7
+0167

-071 ± 5.6
-075

605
35
0

35.070 / 901.8

-28 6 42.75 1899.6

-771

34.299

+01635 -073

+01663 -070

3.58

39.17

0/

7.060

01467

2079

31.6 -0

19.17 1933.22

27.740

850

10

34.840

827

2200

42.77

96

41.81

41.85

84
33.4

34.816

814

+528

218 -070

41.84

41.67 1933.62

33.8

41.51

41.69


-2.52

R.A. : 21.500
DEC. : -28.100
1. R.A. : 0.000
1. DEC. : 0.000
DISTANCE : 0.000
MODULUS : 10
D. VEL. : 0.000

q1 (U) : 0.733
q2 (U) : 0.201
q3 (U) : -0.650
dU : 0.000
U : 0.000

q1 (V) : -0.057
q2 (V) : 0.970
q3 (V) : 0.236
dV : 0.000
V : 0.000

q1 (W) : -0.678
q2 (W) : 0.136
q3 (W) : -0.723
dW : 0.000
M : 0.000



2143 +353 21 43.3 +35 15

64886 2060 +173 +100

JHR 8873 8515 1998

4612 5244 7000

55 40 1/1 0236

3.15

And

2224-344

22 246 -34 27

LD6755A

191122 9"

B

0.21 94 209 -015

4807

9770

2074

4812

1212

4920

158

28C504

0215

305

My

213717 0025 22 312 -40 19

-430924 304
225
79

+0126 +09 ✓

1376

138-1036

8.86 476 282 434 88 +265

491
+9023 962

-4810 +2580 1426
-0009

15.9

1710 + 683 17 10.1 +68 23

6240-47 "11" 150

6240-47 1500 2500 1500 2500 1500

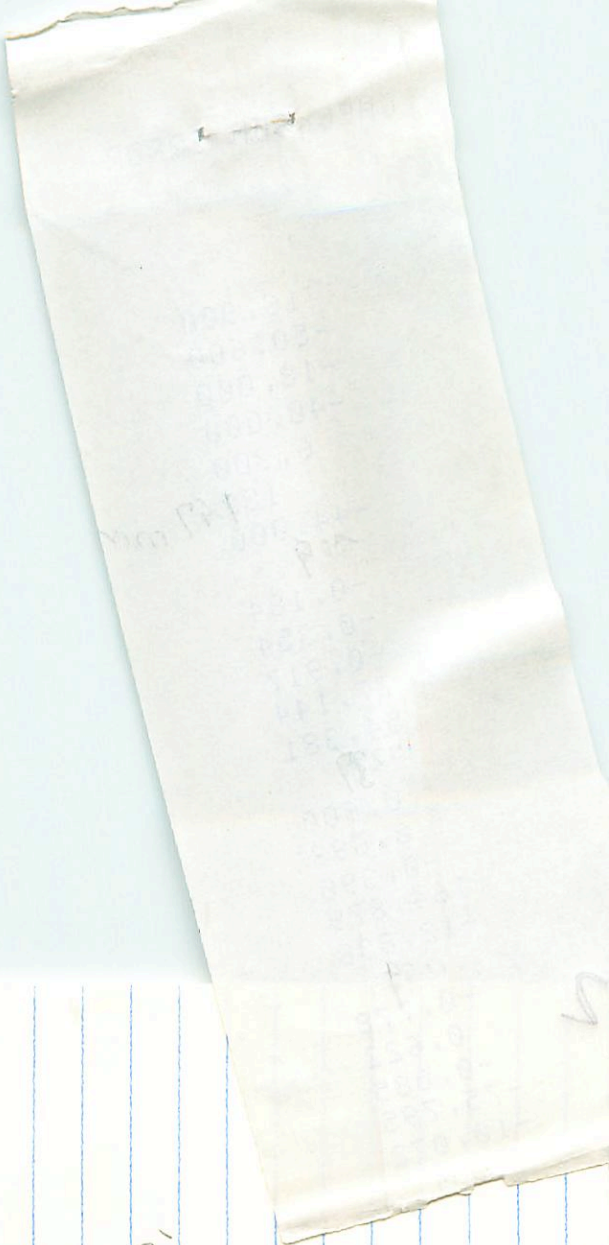
6240-47 1500 2500 1500 2500 1500

1500

1500 2500 1500 2500 1500 2500

1500

1500 2500 1500 2500 1500 2500



CHECKSUM ERROR

16.900

-50.600

-18.000

-40.000

6.300

-44.000

30.9

187.97

0.00

-0.184

-0.354

-0.917

77.144

54.381

12.37

0.600

0.698

-0.390

-164.879

-12.838

-17.94

R.A. : 20.900
DEC. : 42.700
l. R.A. : 0.000
l. DEC. : 0.000
STANCE : 0.000
MODULUS : 10
p. VEL. : 0.000

q1 (U) : 0.649
q2 (U) : 0.753
q3 (U) : -0.103
dU : 0.000
U : 0.000

q1 (V) : 0.047
q2 (V) : 0.096
q3 (V) : 0.994
dV : 0.000
V : 0.000

q1 (W) : -0.759
q2 (W) : 0.651
q3 (W) : -0.026
dW : 0.000
W : 0.000

7

By

130
024

130
148

254
1110
254

254	1110	254
254	1110	254

1619+17-08

254

254

254 1110 254

254 1110

110 + 7

254