TABLES FOR EXCAVATIONS AND EMBANKMENTS.

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.
ROADWAY 18 FEET WIDE. SIDE SLOPES 1 TO 1.
FOR SINGLE TRACK EXCAVATION.

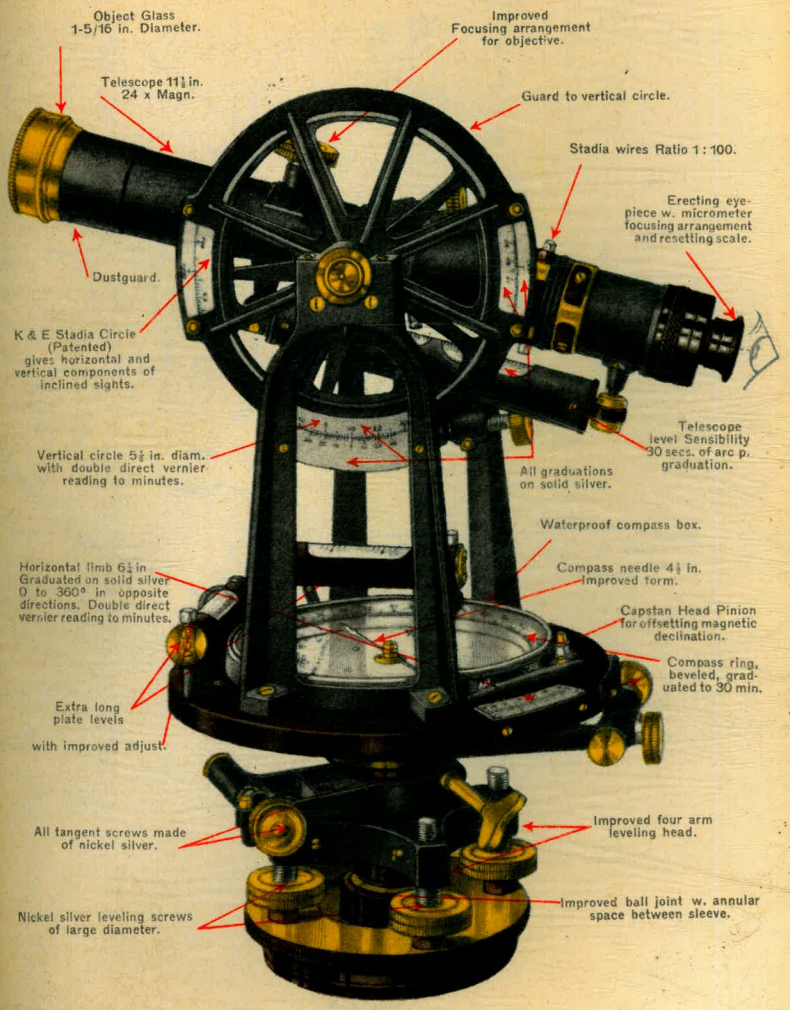
	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	0
1	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	1
2	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	2
3	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	3
4	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	4
5	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	5
6	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	6
7	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	7
8	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	8
9	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	9
10	19.0	19.1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.9	10
11	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	11
12	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	12
13	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	13
14	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	14
15	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	15
16	25.0	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	16
17	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	17
18	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	18
19	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	19
20	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	20
21	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	21
22	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	31.9	22
23	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	32.8	32.9	23
24	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9	24
25	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	34.8	34.9	25
26	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9	26
27	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36.7	36.8	36.9	27
28	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	28
29	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9	29
30	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	30
31	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	31
32	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	32
33	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	33
34	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	34
35	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	35
36	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	36

Calculated by Julian A. Hall, M. Am. Soc. C. E.

466

Original X Sections of Spillway Extension

EXTRA FINE ENGINEERS' TRANSIT
No. 5060 S
KEUFFEL & ESSER CO., N.Y.



ALSO MADE WITH

INTERNAL FOCUSING TELESCOPE

PRACTICALLY DUST AND MOISTURE PROOF.

Blank 70-79.

INDEX

Original X Sections of Spillway Extension

Mar 15 - 1934

B.M.	6.92	576.87 ✓		569.95	
		E 3980			
N4140			+1.0	77.9	✓
30			+0.6	77.5	✓
20			+0.3	77.2	✓
10			0.0	76.9	✓
4100			0.2	76.7	✓
4090			0.5	76.4	✓
80			0.9	76.0	✓
70			0.9	76.0	✓
60			1.7	75.2	✓
50			2.3	74.6	✓
40			2.8	74.1	✓
30			3.7	73.2	✓
20			4.3	72.6	✓
10			4.8	72.1	✓
4000			5.2	71.7	✓
3990			5.2	71.7	✓

All notes in this book = Plotting ck By CBH

Plotted

138434

Elliott
Soper
Kemmen

E 3980

		576.87			
3980			5.7	571.2	✓
70			5.9	71.0	✓
60			6.3	70.6	✓
50			7.0	69.9	✓
40			7.4	69.5	✓
30			7.8	69.1	✓
20			7.9	69.0	✓
10			8.0	68.9	✓
3900			7.8	69.1	✓
3890			8.4	68.5	✓
80			8.9	68.0	✓
70			9.2	67.7	✓
60			9.4	67.5	✓

Plotted

End Mar 15 - 1934

Mar 16-1934

Elliott - Note
Simpson - T
Soper
Remmen

E 3990

B.M.	6.81	576.76 ✓		569.95
N 3870			8.8	68.0 ✓
80			8.4	68.4 ✓
90			8.3	68.5 ✓
3900			8.0	68.8 ✓
10			7.9	68.9 ✓
20			7.8	69.0 ✓
30		Plotted ✓	6.7	70.1 ✓
40			7.4	69.4 ✓
50			6.2	70.6 ✓
60			6.1	70.7 ✓
70			5.7	71.1 ✓
80			5.5	71.3 ✓
90			5.1	71.7 ✓
4000			6.6	70.2 ✓
10			9.4	67.4 ✓
20			9.7	67.1 ✓
30			8.4	68.4 ✓
40			6.2	70.6 ✓
50			4.1	72.7 ✓

E 3990

576.76

4060		1.8	575.0 ✓
70		1.1	75.7 ✓
80		0.7	76.1 ✓
90		0.4	76.4 ✓
4100		+0.1	76.9 ✓
10		+0.4	77.2 ✓
20		+0.7	77.5 ✓
30		+0.7	77.5 ✓
40	Plotted ✓	+0.8	77.6 ✓

E 4000

40		+1.4	78.2 ✓
30		+0.8	77.6 ✓
20		+0.8	77.6 ✓
10		-2.5	74.3 ✓
4100		3.4	73.4 ✓
4090		0.4	76.4 ✓
80		0.7	76.1 ✓
70		1.6	75.2 ✓
60		7.0	69.8 ✓

E4000

4050		576.76	9.9	566.9 ✓
40			10.3	66.5 ✓
30			11.3	65.5 ✓
20			11.6	65.2 ✓
10			11.0	65.8 ✓
4000			6.4	70.4 ✓
3990			5.0	71.8 ✓
80			5.5	71.3 ✓
70			5.6	71.2 ✓
60			5.8	71.0 ✓
50			5.9	70.9 ✓
40			6.7	70.1 ✓
30			7.3	69.5 ✓
20			7.5	69.3 ✓
10			7.8	69.0 ✓
3900			7.9	68.9 ✓
3890			8.0	68.8 ✓
80			8.3	68.5 ✓
70			8.6	68.2 ✓

Plotted ✓

E4010

576.76

3870	8.2	568.6 ✓
80	8.2	68.6 ✓
90	8.0	68.8 ✓
3900	7.9	68.9 ✓
10	7.4	69.4 ✓
20	7.3	69.5 ✓
30	7.0	69.8 ✓
40	6.8	70.0 ✓
50	5.9	70.9 ✓
60	5.7	71.1 ✓
70	5.5	71.3 ✓
80	5.5	71.3 ✓
90	5.0	71.8 ✓
4000	6.3	70.5 ✓
10	11.5	65.3 ✓
20	11.5	65.3 ✓
30	11.5	65.3 ✓
40	11.3	65.5 ✓

Plotted ✓

E 4010

576.76

4050	11.0	565.8 ✓
60	10.7	66.1 ✓
70	7.9	68.9 ✓
80	5.5	71.3 ✓
90	5.5	71.3 ✓
4100	7.8	69.0 ✓
10	7.5	69.3 ✓
20	6.4	70.4 ✓
30	5.2	71.6 ✓
40	4.1	72.7 ✓

Plotted ✓

E 4020

4140	7.1	69.7 ✓
30	7.5	69.3 ✓
20	8.5	68.3 ✓
10	9.3	67.5 ✓
4100	9.1	67.7 ✓
4090	10.1	66.7 ✓
80	10.5	66.3 ✓

E 4020

576.76

4070	10.8	566.0 ✓
60	11.2	65.6 ✓
50	11.3	65.5 ✓
40	12.0	64.8 ✓
30	12.0	64.8 ✓
20	12.0	64.8 ✓
10	11.5	65.3 ✓
4000	5.3	71.5 ✓
3990	5.3	71.5 ✓
80	5.5	71.3 ✓
70	5.4	71.4 ✓
60	5.6	71.2 ✓
50	6.2	70.6 ✓
40	6.6	70.2 ✓
30	6.9	69.9 ✓
20	7.2	69.6 ✓
10	7.3	69.5 ✓
3900	7.6	69.2 ✓
3890	7.7	69.1 ✓
80	7.9	68.9 ✓

Plotted ✓

E 4030

3880	576.76	7.7	569.1 ✓
90		7.6	69.2 ✓
3900		7.3	69.5 ✓
10		7.1	69.7 ✓
20		6.0	70.8 ✓
30		6.2	70.6 ✓
40		6.1	70.7 ✓
50		5.7	71.1 ✓
60		5.4	71.4 ✓
70		5.3	71.5 ✓
80		5.4	71.4 ✓
90		5.3	71.5 ✓
4000		4.9	71.9 ✓
10		9.1	67.7 ✓
20		12.5	64.3 ✓
30		12.2	64.6 ✓
40		12.0	64.8 ✓
50		11.8	65.0 ✓
60		11.5	65.3 ✓

Plotted ✓

4070			
80			
90			
4100			
10			
20			
30			
40			
50			
4150			
40			
30			
20			
10			
4100			
4090			
80			
70			

Plotted ✓

E 4030

576.76	11.3	565.5 ✓	
	10.9	65.9 ✓	
	10.4	66.4 ✓	
	10.0	66.8 ✓	
	9.7	67.1 ✓	
	9.2	67.6 ✓	
	8.3	68.5 ✓	
	7.7	69.1 ✓	
	7.0	69.8 ✓	

E 4040

5.2	71.6 ✓	
4.8	72.0 ✓	
9.0	67.8 ✓	
9.6	67.2 ✓	
9.6	67.2 ✓	
10.0	66.8 ✓	
10.0	66.8 ✓	
10.6	66.2 ✓	
11.2	65.6 ✓	

E4040

4060	576.76	12.0	564.8	✓
50		12.0	64.8	✓
40		12.0	64.8	✓
30		12.0	64.8	✓
20		11.5	65.3	✓
10		6.1	70.7	✓
4000		4.9	71.9	✓
3990		5.1	71.7	✓
80		5.3	71.5	✓
70		5.3	71.5	✓
60		5.1	71.7	✓
50		5.3	71.5	✓
40		5.1	71.7	✓
30		4.2	72.6	✓
20		5.1	71.7	✓
10		6.6	70.2	✓
3900		7.0	69.8	✓
3890		7.3	69.5	✓
80		7.3	69.5	✓

Plotted ✓

E4050

3880	576.76	7.2	569.6	✓
3890		6.9	69.9	✓
3900		6.5	70.3	✓
10		6.1	70.7	✓
20		5.7	71.1	✓
30		4.2	72.6	✓
40		3.7	73.1	✓
50		3.6	73.2	✓
60		4.7	72.1	✓
70		4.9	71.9	✓
80		5.1	71.7	✓
90		5.1	71.7	✓
4000		5.1	71.7	✓
10		6.0	70.8	✓
20		7.1	69.7	✓
30		8.0	68.8	✓
40		7.8	69.0	✓
50		11.0	65.8	✓
60		10.8	66.0	✓

Plotted ✓

E 4050

4070	576.76	10.8	566.0 ✓
80		10.4	66.4 ✓
90		10.4	66.4 ✓
4100		10.1	66.7 ✓
10		9.9	66.9 ✓
20		9.9	66.9 ✓
30		3.7	78.1 ✓
40		4.1	72.7 ✓
50		5.1	71.7 ✓
60		5.4	71.4 ✓

Plotted

E 4060

4160		4.3	72.5 ✓
50		4.3	72.5 ✓
40		4.0	72.8 ✓
30		3.6	73.2 ✓
20		2.5	74.3 ✓
10		5.3	71.5 ✓
4100		3.5	73.3 ✓
4090		5.3	71.5 ✓

E 4060

4080	576.76	6.0	570.8 ✓
70		6.6	70.2 ✓
60		5.5	71.3 ✓
50		3.8	73.0 ✓
40		5.5	71.3 ✓
30		7.2	69.6 ✓
20		6.8	70.0 ✓
10		5.8	71.0 ✓
4000		4.6	72.2 ✓
3990		4.6	72.2 ✓
80		4.7	72.1 ✓
70		4.6	72.2 ✓
60		4.2	72.6 ✓
50		4.0	72.8 ✓
40		3.1	73.7 ✓
30		4.1	72.7 ✓
20		5.3	71.5 ✓
10		5.7	71.1 ✓
3900		6.1	70.7 ✓
3890		6.5	70.3 ✓

Plotted

E 4060

3880	576.76	6.7	570.1 ✓

E 4070

3880		6.5	70.3 ✓
90		6.1	70.7 ✓
3900		5.5	71.3 ✓
10		4.9	71.9 ✓
20		4.3	72.5 ✓
30		3.3	73.5 ✓
40		3.6	73.2 ✓
50		3.6	73.2 ✓
60		3.9	72.9 ✓
70		4.2	72.6 ✓
80		4.4	72.4 ✓
90		4.4	72.4 ✓
4000		4.5	72.3 ✓
4010		6.3	70.5 ✓
20		4.8	72.0 ✓
30		6.5	70.3 ✓
40		〃	〃 ✓

Plotted ✓

E 4070

4050	576.76	6.1	570.7 ✓
60		7.3	69.5 ✓
70		7.6	69.2 ✓
80		5.9	70.9 ✓
90		5.4	71.4 ✓
4100		5.0	71.8 ✓
10		5.2	71.6 ✓
20		1.5	75.3 ✓
30		3.5	73.3 ✓
40		3.7	73.1 ✓
50		4.2	72.6 ✓
60		5.0	71.8 ✓

Plotted ✓

E 4080

4160		5.8	71.0 ✓
50		5.2	71.6 ✓
40		4.3	72.5 ✓
30		3.2	73.6 ✓
20		2.1	74.7 ✓
10		3.9	72.9 ✓

E 4080

4100	576.76	4.5	572.3 ✓
4090		5.0	71.8 ✓
80		5.7	71.1 ✓
70		6.6	70.2 ✓
60		7.0	69.8 ✓
50		6.9	69.9 ✓
40		7.5	69.3 ✓
30		8.4	68.4 ✓
20		6.3	70.5 ✓
10		3.4	73.4 ✓
4000		3.7	73.1 ✓
3990		4.0	72.8 ✓
80		4.0	72.8 ✓
70		3.7	73.1 ✓
60		3.4	73.4 ✓
50		2.6	74.2 ✓
40		2.8	74.0 ✓
30		3.1	73.7 ✓
20		3.8	73.0 ✓

Plotted ✓

E 4080

3910	576.76	4.3	572.5 ✓
3900		5.0	71.8 ✓
3890		5.6	71.2 ✓
80		6.0	70.8 ✓

Plotted ✓

E 4090

3890		5.3	71.5 ✓
3900		4.4	72.4 ✓
10		3.8	73.0 ✓
20		3.2	73.6 ✓
30		2.7	74.1 ✓
40		1.4	75.4 ✓
50		1.9	74.9 ✓
60		2.6	74.2 ✓
70		3.2	73.6 ✓
80		3.5	73.3 ✓
90		3.6	73.2 ✓
4000		3.2	73.6 ✓
10		2.7	74.1 ✓
20		7.6	69.2 ✓

Plotted ✓

E 4090

4030		576.76	8.5	568.3 ✓
40			7.6	69.2 ✓
50			7.1	69.7 ✓
60			6.7	70.1 ✓
70			6.2	70.6 ✓
80			5.3	71.5 ✓
90			4.8	72.0 ✓
4100			4.1	72.7 ✓
10			2.9	73.9 ✓
20			2.3	74.5 ✓
30			2.2	74.6 ✓
40			3.5	73.3 ✓
50			5.3	71.5 ✓
60			6.0	70.8 ✓
70			7.0	69.8 ✓

Plotted ✓

E 4100

4170			4.3	72.5 ✓
60			3.7	73.1 ✓
50			3.8	73.0 ✓

E 4100

4140		576.76	2.9	573.9 ✓
30			1.7	75.1 ✓
20			1.7	75.1 ✓
10			1.8	75.0 ✓
4100			1.4	75.4 ✓
4090			3.0	73.8 ✓
80			3.9	72.9 ✓
70			5.1	71.7 ✓
60			5.8	71.0 ✓
50			6.1	70.7 ✓
40			7.8	69.0 ✓
30			7.9	68.9 ✓
20			5.9	70.9 ✓
10			2.3	74.8 5 ✓
4000			2.7	74.1 ✓
3990			3.1	73.7 ✓
80			3.0	73.8 ✓
70			2.6	74.2 ✓
60			1.9	74.9 ✓

Plotted ✓

E4100

3950	576.76	1.2	575.6 ✓
40		1.9	74.9 ✓
30		2.3	74.5 ✓
20		2.7	74.1 ✓
10		3.1	73.7 ✓
3900		3.9	72.9 ✓
3890		4.6	72.2 ✓

Plotted ✓

E4110

3900		3.1	73.7 ✓
10		2.5	74.3 ✓
20		1.8	75.0 ✓
30		1.7	75.1 ✓
40		1.3	75.5 ✓
50		1.1	75.7 ✓
60		1.4	75.4 ✓
70		1.9	74.9 ✓
80		3.4	73.4 ✓
90		2.1	74.7 ✓
4000		1.7	75.1 ✓

Plotted ✓

E4110

4010	576.76	1.8	575.0 ✓
20		5.9	70.9 ✓
30		8.1	68.7 ✓
40		7.1	69.7 ✓
50		5.4	71.4 ✓
60		5.0	71.8 ✓
70		1.2	75.6 ✓
T.P.	9.49	585.05 ✓	1.20 575.56 ✓
80			9.8 75.2 ✓
90			9.9 75.1 ✓
4100			9.8 75.2 ✓
10			8.9 76.1 ✓
20			8.2 76.8 ✓
30			8.0 77.0 ✓
40			6.5 78.5 ✓
50			6.1 78.9 ✓
60			6.1 78.9 ✓
70			5.9 79.1 ✓

Plotted ✓

E4120

4180	585.05	5.7	579.3 ✓
70		5.8	79.2 ✓
60		5.8	79.2 ✓
50		6.0	79.0 ✓
40		6.3	78.7 ✓
30		6.6	78.4 ✓
20		5.2	79.8 ✓
10		7.2	77.8 ✓
4100		8.7	76.3 ✓
4090		9.6	75.4 ✓
80		9.4	75.6 ✓
70		9.1	75.9 ✓
60		12.3	72.7 ✓
50		13.2	71.8 ✓
40		12.0	73.0 ✓
30		12.2	72.8 ✓
20		9.4	75.6 ✓
10		9.8	75.2 ✓
4000		9.7	75.3 ✓

Plotted ✓

E4120

3990	585.05	9.9	575.1 ✓
80		10.2	74.8 ✓
70		9.8	75.2 ✓
60		9.2	75.8 ✓
50		8.7	76.3 ✓
40		9.2	75.8 ✓
30		9.1	75.9 ✓
20		9.5	75.5 ✓
10		9.6	75.4 ✓
3900		6.9	78.1 ✓

Plotted ✓

E4130

3900		7.0	78.0 ✓
10		6.8	78.2 ✓
20		8.5	76.5 ✓
30		8.4	76.6 ✓
40		8.4	76.6 ✓
50		8.4	76.6 ✓
60		8.5	76.5 ✓
70		9.4	75.6 ✓

Plotted ✓

E4130

3980	585.05	9.7	575.3 ✓
90		9.6	75.4 ✓
4000		9.4	75.6 ✓
10		9.4	75.6 ✓
20		8.8	76.2 ✓
30		12.9	72.1 ✓
40		12.8	72.2 ✓
50		12.2	72.8 ✓
60		10.5	74.5 ✓
70		8.3	76.7 ✓
80		8.6	76.4 ✓
90		8.2	76.8 ✓
4100		7.5	77.5 ✓
10		6.3	78.7 ✓
20		5.8	79.2 ✓
30		5.7	79.3 ✓
40		5.7	79.3 ✓
50		5.8	79.2 ✓
60		5.7	79.3 ✓

Plotted ✓

E4130

4170	585.05	5.4	579.6 ✓
80		5.1	79.9 ✓
90		5.0	80.0 ✓
4200		4.6	80.4 ✓

Plotted ✓

E4140

4200		3.8	81.2 ✓
4190		4.3	80.7 ✓
80		4.7	80.3 ✓
70		3.4	81.6 ✓
60		5.5	79.5 ✓
50		5.3	79.7 ✓
40		5.3	79.7 ✓
30		5.2	79.8 ✓
20		5.5	79.5 ✓
10		5.6	79.4 ✓
4100		5.6	79.4 ✓
4090		5.8	79.2 ✓
80		6.3	78.7 ✓
70		6.9	78.1 ✓

Plotted ✓

E 4140

4060		585.05	7.3	577.7 ✓
50			11.1	73.9 ✓
40			12.0	73.0 ✓
30			12.6	72.4 ✓
20			8.1	76.9 ✓
10			8.8	76.2 ✓
4000		↓	9.1	75.9 ✓
3990		Plotted	9.3	75.7 ✓
80			9.4	75.6 ✓
70			9.3	75.7 ✓
60			8.9	76.1 ✓
50			8.3	76.7 ✓
40			7.9	77.1 ✓
30			8.0	77.0 ✓
20			7.5	77.5 ✓
10			7.0 ~~10.2~~	78.0 ~~77.8~~ ✓
3900			6.7	78.3 ✓
T.P.			5.53	579.52 ✓

E 4150

New H.I.

T.P.	5.77	585.29 ✓		579.52
3910			6.7	78.6 ✓
20			7.6	77.7 ✓
30			8.1	77.2 ✓
40			7.6	77.7 ✓
50			8.3	77.0 ✓
60			8.6	76.7 ✓
70		↓	9.3	76.0 ✓
80		Plotted	9.3	76.0 ✓
90			9.2	76.1 ✓
4000			9.1	76.2 ✓
10			8.7	76.6 ✓
20			9.7	75.6 ✓
30			12.1	73.2 ✓
40			11.5	73.8 ✓
50			11.1	74.2 ✓
60			7.2	78.1 ✓
70			6.6	78.7 ✓
80			5.9	79.4 ✓

E4150

4090		585.29	5.5	579.8 ✓
4100			5.4	79.9 ✓
10			5.5	79.8 ✓
20			5.5	79.8 ✓
30			5.3	80.0 ✓
40			5.2	80.1 ✓
50			4.7	80.6 ✓
60		Plotted ↓	4.2	81.1 ✓
70			3.0	82.3 ✓
80			0.1	85.2 ✓
90			+2.1	87.4 ✓
4200			+10.3	95.6 ✓
10			+10.7	96.0 ✓
20			+10.0	95.3 ✓
	End Mar 16 - 1934			
	Start Mar 17 - 1934			
T.P.	6.34	585.86 ✓		579.52
	10.71	594.84 ✓	1.73	584.13 ✓

E4160

4230	594.8	0.4	594.4 ✓
20		0.7	94.1 ✓
10		0.9	93.9 ✓
4200		1.1	93.7 ✓
4190		7.2	87.6 ✓
80		9.9	84.9 ✓
70		11.4	83.4 ✓
60	Plotted ↓	13.1	81.7 ✓
50		13.9	80.9 ✓
40		14.5	80.3 ✓
30		14.7	80.1 ✓
20		14.9	79.9 ✓
10		14.8	80.0 ✓
4100		14.7	80.1 ✓
4090		14.7	80.1 ✓
	585.86		
80		5.1	80.8 ✓
70		6.3	79.6 ✓
60		7.5	78.4 ✓

E 4160

4050	585.86	8.0	577.9	✓
40		11.2	74.7	✓
30		12.4	73.5	✓
20		12.0	73.9	✓
10		8.6	77.3	✓
4000		9.3	76.6	✓
3990		9.5	76.4	✓
80		9.6	76.3	✓
70		9.5	76.4	✓
60		9.0	76.9	✓
50		8.2	77.7	✓
40		9.2	76.7	✓
30		8.8	77.1	✓
20		8.2	77.7	✓

Plotted

E 4170

3920		8.3	77.6	✓
30		8.7	77.2	✓
40		9.3	76.6	✓
50		8.6	77.3	✓

Plotted

E 4170

3960	585.9	8.4	577.5	✓
70		9.4	76.5	✓
80		9.2	76.7	✓
90		9.3	76.6	✓
4000		8.6	77.3	✓
10		8.1	77.8	✓
20		11.9	74.0	✓
30		12.1	73.8	✓
40		10.7	75.2	✓
50		6.6	79.3	✓
60		6.0	79.9	✓
70		5.5	80.4	✓
80		5.1	80.8	✓
	594.84			
90		14.3	80.5	✓
4100		14.3	80.5	✓
10		14.4	80.4	✓
20		14.6	80.2	✓
30		14.5	80.3	✓

Plotted

E 4170

4140	594.84	13.3	581.5 ✓
50		10.4	84.4 ✓
60		11.7	83.1 ✓
70		10.9	83.9 ✓
80		9.1	85.7 ✓
90		6.1	88.7 ✓
4200		1.5	93.3 ✓
10		1.3	93.5 ✓
20		1.0	93.8 ✓
30		0.8	94.0 ✓

Plotted ↓

E 4180

4230		1.2	93.6 ✓
20		1.5	93.3 ✓
10		1.7	93.1 ✓
4200		1.9	92.9 ✓
4190		5.0	89.8 ✓
80		8.1	86.7 ✓
70		7.9	86.9 ✓
60		12.6	82.7 ✓

Plotted ↓

E 4180

4150	594.84	14.5	580.3 ✓
40		14.5	80.3 ✓
30		14.5	80.3 ✓
20		14.4	80.4 ✓
10		14.3	80.5 ✓
4100		14.0	80.8 ✓
4090		13.8	81.0 ✓
	585.9		
80		4.8	81.1 ✓
70		5.0	80.9 ✓
60		5.4	80.5 ✓
50		5.0	80.9 ✓
40		10.6	75.3 ✓
30		11.8	74.1 ✓
20		11.8	74.1 ✓
10		8.0	77.9 ✓
4000		8.3	77.6 ✓
3990		8,9	77.0 ✓
80		8.9	77.0 ✓

Plotted ↓

E 4180

3970	585.9	9.3	576.6 ✓
60		8.8	77.1 ✓
50		9.3	76.6 ✓
40		8.7	77.2 ✓
30		7.1	78.8 ✓

Plotted

E 4190

3930		9.5	76.4 ✓
40		9.7	76.2 ✓
50		9.5	76.4 ✓
60		8.9	77.0 ✓
70		8.9	77.0 ✓
80		8.8	77.1 ✓
90		8.5	77.4 ✓
4000		7.9	78.0 ✓
10		7.3	78.6 ✓
20		11.6	74.3 ✓
30		11.6	74.3 ✓
40		10.4	75.5 ✓
50		4.9	81.0 ✓

Plotted

E 4190

4060	585.9	4.4	581.5 ✓
70		4.3	81.6 ✓
80		4.3	81.6 ✓
	594.84		
90		13.8	81.0 ✓
4100		14.1	80.7 ✓
10		14.3	80.5 ✓
20		14.6	80.2 ✓
30		14.6	80.2 ✓
40		15.2	79.6 ✓
50		15.2	79.6 ✓
60		15.2	79.6 ✓
70		14.0	80.8 ✓
80		9.8	85.0 ✓
83		2.8	92.0 ✓
90		2.6	92.2 ✓
4200		2.4	92.4 ✓
10		2.1	92.7 ✓
20		1.5	93.3 ✓
30		1.1	93.7 ✓
40		0.7	94.1 ✓

E 4200

4240	594.84	0.2	594.6 ✓
30		0.8	94.0 ✓
20		1.3	93.5 ✓
10		1.9	92.9 ✓
4200		2.4	92.4 ✓
4195		2.6	92.2 ✓
	585.9		
4188		6.1	79.8 ✓
80		6.5	79.4 ✓
70		6.9	79.0 ✓
60		6.7	79.2 ✓
50		6.4	79.5 ✓
40		6.0	79.9 ✓
30		5.7	80.2 ✓
20		5.4	80.5 ✓
10		5.2	80.7 ✓
4100		5.4	80.5 ✓
4090		5.4	80.5 ✓
85		1.8	84.1 ✓

Plotted

E 4200

4080	585.9	3.7	582.2 ✓
70		4.0	81.9 ✓
60		4.1	81.8 ✓
50		7.4	78.5 ✓
40		9.9	76.0 ✓
30		11.0	74.9 ✓
20		10.5	75.4 ✓
13		6.6	79.3 ✓
4000		7.7	78.2 ✓
3990		8.2	77.7 ✓
80		8.5	77.4 ✓
70		9.5	76.4 ✓
60		9.5	76.4 ✓
50		8.6	77.3 ✓
40		9.0	76.9 ✓
30		10.8	75.1 ✓

Plotted

E 4210

3930		7.8	78.1 ✓
40		10.8	75.1 ✓

Plotted

E 4210

3950		585.86	9.0	576.9 ✓
60			9.5	76.4 ✓
70			11.1	74.8 ✓
80	Plotted ✓		11.1	74.8 ✓
82			7.9	78.0 ✓
90			7.6	78.3 ✓
4000			7.2	78.7 ✓
10			5.9	80.0 ✓
15			5.7	80.2 ✓
20			9.7	76.2 ✓
30			9.8	76.1 ✓
40			9.2	76.7 ✓
50			7.8	78.1 ✓
57			3.7	82.2 ✓
70			2.6	83.3 ✓
		594.84		
80			8.8	86.0 ✓
85			8.6	86.2 ✓

E 4210

4090		585.86	4.0	581.9 ✓
4100			5.4	80.5 ✓
10			5.2	80.7 ✓
20	Plotted ✓		5.2	80.7 ✓
30			5.7	80.2 ✓
40			6.0	79.9 ✓
50			6.0	79.9 ✓
60			6.5	79.4 ✓
70			6.4	79.5 ✓
80			6.8	79.1 ✓
90			6.3	79.6 ✓
96			6.2	79.7 ✓
		594.84		
4203			2.3	92.5 ✓
10			2.0	92.8 ✓
20			1.4	93.4 ✓
30			0.7	94.1 ✓
40			0.2	94.6 ✓ MM

E 4220

4250	594.84	+0.3	595.1	
40		0.2	94.6	✓
30		0.6	94.2	✓
20		1.0	93.8	✓
07		1.6	93.2	✓
	585.86			
4202		2.3	83.6	✓
4197		6.1	79.8	✓
90		6.7	79.2	✓
80	Plotted	6.8	79.1	✓
70		6.9	79.0	✓
60		6.4	79.5	✓
50		6.1	79.8	✓
40		6.2	79.7	✓
30		5.5	80.4	✓
20		5.0	80.9	✓
10		5.0	80.9	✓
4100		5.1	80.8	✓
4090		4.0	81.9	✓

E 4220

	585.86			
4080		+4.2	90.1	✓
70		1.6	84.3	✓
60		3.1	82.8	✓
50		7.2	78.7	✓
40		8.3	77.6	✓
30		8.8	77.1	✓
20		5.4	80.5	✓
10	Plotted	5.8	80.1	✓
4000		6.7	79.2	✓
3993		6.9	79.0	✓
90		10.4	75.5	✓
80		11.9	74.0	✓
65		11.9	74.0	✓
62		8.2	77.7	✓
50		10.0	75.9	✓
40		12.2	73.7	✓
30		13.7	72.2	✓

E 4230

3940	585.86	12.2	73.7	✓
50		10.0	75.9	✓
60		8.2	77.7	✓
67		7.5	78.4	✓
69		12.1	73.8	✓
80		12.4	73.5	✓
90		12.1	73.8	✓
96		10.1	75.8	✓
4000		5.6	80.3	✓
10		5.5	80.4	✓
23		4.2	81.7	✓
29		7.6	78.3	✓
40		7.3	78.6	✓
50		6.2	79.7	✓
60		4.1	81.8	✓
70		4.0	81.9	✓
80		3.4	82.5	✓
90		4.7	81.2	✓
4100		4.6	81.3	✓

Plotted ✓

E 4230

4110	585.86	4.7	81.2	✓
20		5.1	80.8	✓
30		5.9	80.0	✓
40		6.3	79.6	✓
50		6.4	79.5	✓
60		6.4	79.5	✓
70		6.9	79.0	✓
80		7.0	78.9	✓
92		6.9	79.0	✓
4203		3.7	82.2	✓
	594.84			
4208		1.0	93.8	✓
20		0.4	94.4	✓
30		+0.1	94.9	✓
40		+0.6	95.4	✓
50		+1.5	96.3	✓

Plotted ✓

End Mar. 17 - 1934

Mar 18 - 1934
Elliott - Simpson - Soper - Remmen

E 4240

T.P.	11.85	591.37 ✓		579.52	
B.M. Check			4.24	587.13 ✓	587.14
	11.80	598.94 ✓			
N 4260			2.0	96.9 ✓	
50			2.5	96.4 ✓	
40			2.8	96.1 ✓	
30			3.3	95.6 ✓	
20			4.2	94.7 ✓	
4209			4.6	94.3 ✓	
		591.37 ✓			
05			6.8	84.6 ✓	
4200			10.3	81.1 ✓	
4190			12.6	78.8 ✓	
80			12.7	78.7 ✓	
70			12.5	78.9 ✓	
60			12.0	79.4 ✓	
50			12.0	79.4 ✓	
40			11.9	79.5 ✓	
30			11.6	79.8 ✓	

Plotted ✓

E 4240

591.37	10.9	80.5 ✓	
4120	10.4	81.0 ✓	
10	9.9	81.5 ✓	
4100	9.9	81.5 ✓	
4090	10.0	81.4 ✓	
80	10.2	81.2 ✓	
70	10.2	81.2 ✓	
60	10.5	80.9 ✓	
50	11.4	80.0 ✓	
40	9.9	81.5 ✓	
30	10.1	81.3 ✓	
20	10.1	81.3 ✓	
06	16.6	74.8 ✓	
4000	17.2	74.2 ✓	
3990	17.6	73.8 ✓	
80	17.6	73.8 ✓	
72	12.3	79.1 ✓	
70		78.2	
60	13.2	~~79.2~~	
50	15.1	76.3 ✓	
40	17.4	74.0 ✓	

Plotted ✓

E 42.50

3940	591.37	16.5	74.9	✓
50		14.6	76.8	✓
60		13.0	78.4	✓
72		11.3	80.1	✓
75		17.2	74.2	✓
80		17.2	74.2	✓
90		16.7	74.7	✓
4000		16.1	75.3	✓
05		15.3	76.1	✓
10		9.9	81.5	✓
20		10.1	81.3	✓
30		10.1	81.3	✓
40		10.3	81.1	✓
50		10.3	81.1	✓
60		10.3	81.1	✓
70		10.2	81.2	✓
80		10.0	81.4	✓
90		9.8	81.6	✓
4100		9.9	81.5	✓

Plotted ✓

E 42.50

4110	591.37 ✓	10.7	80.1	✓
20		11.3	80.1	✓
30		11.7	79.7	✓
40		12.1	79.3	✓
50		12.2	79.2	✓
60		12.4	79.0	✓
70		12.8	78.6	✓
80		12.8	78.6	✓
90		12.7	78.7	✓
4198		12.0	79.4	✓
4206		5.7	85.7	✓
	598.94			
10		4.1	94.8	✓
20		3.6	95.3	✓
30		3.2	95.7	✓
40		2.9	96.0	✓
50		2.6	96.3	✓
60		1.4	97.5	✓

Plotted ✓

E 4260

598.94

4260		1.0	97.9	✓
50		1.9	97.0	✓
40		2.7	96.2	✓
30		3.5	95.4	✓
20		3.8	95.1	✓
09		4.2	94.7	✓
0.5	591.37 →	8.5	82.9	✓
4200		11.9	79.5	✓
4190		12.9	78.5	✓
80		12.8	78.6	✓
70		12.9	78.5	✓
60		12.6	78.8	✓
50		12.4	79.0	✓
40		12.4	79.0	✓
30		12.1	79.3	✓
20		11.6	79.8	✓
10		11.6	79.8	✓
4100		10.9	80.5	✓

Plotted

E 4260

591.37

4090	10.2	81.2	✓
80	10.0	81.4	✓
70	10.2	81.2	✓
60	10.0	81.4	✓
50	10.4	81.0	✓
40	10.2	81.2	✓
30	10.2	81.2	✓
19	9.5	81.9	✓
13	13.9	77.5	✓
4000	15.1	76.3	✓
3990	15.8	75.6	✓
80	16.1	75.3	✓
73	10.5	80.9	✓
70	10.8	80.6	✓
60	11.8	79.6	✓
50	13.1	78.3	✓
40	15.0	76.4	✓

Plotted

E4270

3940	591.37	14.5	76.9	✓
50		12.0	79.4	✓
60		11.1	80.3	✓
70		10.1	81.3	✓
76		9.6	81.8	✓
85		15.3	76.1	✓
90		15.8	75.6	✓
4000		15.0	76.4	✓
10		13.8	77.6	✓
23		12.5	78.9	✓
27		10.7	80.7	✓
30		10.6	80.8	✓
40		10.5	80.9	✓
50		10.6	80.8	✓
60		10.5	80.9	✓
70		10.6	80.8	✓
80		10.7	80.7	✓
90		10.9	80.5	✓
4100		11.3	80.1	✓

Plotted ✓

E4270

4110	591.37	11.7	79.7	✓
20		12.1	79.3	✓
30		12.4	79.0	✓
40		12.4	79.0	✓
50		12.7	78.7	✓
60		12.8	78.6	✓
70		13.0	78.4	✓
80		12.9	78.5	✓
90		13.0	78.4	✓
4200		12.6	78.8	✓
05		9.5	81.9	✓
	598.94			
09		4.3	94.6	✓
20		3.9	95.0	✓
30		2.8	96.1	✓
40		2.2	96.7	✓
50		1.3	97.6	✓
60		0.7	98.2	✓

Plotted ✓

E 4280

4270	598.94	+1.0	99.9 ✓
60		+0.6	99.5 ✓
50		1.1	97.8 ✓
40		1.8	97.1 ✓
30		2.5	96.4 ✓
20		3.2	95.7 ✓
09		4.4	94.5 ✓
	591.37		
07		8.8	82.6 ✓
4200		13.0	78.4 ✓
4190		13.1	78.3 ✓
80		13.0	78.4 ✓
70		13.0	78.4 ✓
60		13.0	78.4 ✓
50		12.5	78.9 ✓
40		12.5	78.9 ✓
30		12.5	78.9 ✓
20		12.3	79.1 ✓
10		12.0	79.4 ✓

Plotted ✓

E 4280

4100	591.37	11.6	79.8 ✓
4090		11.1	80.3 ✓
80		10.8	80.6 ✓
70		10.8	80.6 ✓
60		11.0	80.4 ✓
50		10.7	80.7 ✓
40		10.8	80.6 ✓
30		11.3	80.1 ✓
20		12.1	79.3 ✓
10		13.1	78.3 ✓
4000		14.6	76.8 ✓
3990		14.8	76.6 ✓
84		14.2	77.2 ✓
77		8.4	83.0 ✓
70		9.5	81.9 ✓
60		10.3	81.1 ✓
50		11.7	79.7 ✓

Plotted ✓

Coordinate North	+	H.I.	−	Elev.	
		E 4290			
3950		591.37	11.6	79.8	✓
60			10.7	80.7	✓
70			9.4	82.0	✓
82			7.5	83.9	✓
88			13.9	77.5	✓
4000			13.5	77.9	✓
10			11.9	79.5	✓
20			11.7	79.7	✓
30			11.2	80.2	✓
40			11.0	80.4	✓
50			10.9	80.5	✓
60			11.6	79.8	✓
70			9.4	82.0	✓ Dornick
80			11.3	80.1	✓
90			11.6	79.8	✓
4100			11.8	79.6	✓
10			12.5	78.9	✓
20			12.5	78.9	✓
30			12.5	78.9	✓

Plotted ✓

		E 4290			
4140		591.37	12.8	78.6	✓
50			13.2	78.2	✓
60			13.1	78.3	✓
70			12.9	78.5	✓
80			13.0	78.4	✓
90			12.8	78.6	✓
4200			12.9	78.5	✓
09			6.6	84.8	✓
		598.94			
10			3.8	95.1	✓
20			3.0	95.9	✓
30			2.6	96.3	✓
40			1.8	97.1	✓
50			0.6	98.3	✓
60			+0.9	99.8	✓
70			+1.8	600.7	✓
80			+4.0	602.9	✓

Plotted ✓

E 4300

4270	598.94	+4.4	603.3 ✓
60		+3.0	601.9 ✓
50		0.4	98.5 ✓
40		1.6	97.3 ✓
30		2.6	96.3 ✓
20		3.1	95.8 ✓
09		3.6	95.3 ✓
	591.37		
09 also		6.3	85.1 ✓
4200		12.6	78.8 ✓
4190		13.1	78.3 ✓
80		13.1	78.3 ✓
70		12.8	78.6 ✓
60		16.0	75.4 ✓
50		13.0	78.4 ✓
40		12.9	78.5 ✓
30		12.4	79.0 ✓
20		12.5	78.9 ✓
10		12.3	79.1 ✓

Plotted

E 4300

4100	591.37	12.0	79.4 ✓
4090		11.8	79.6 ✓
80		11.7	79.7 ✓
70		11.9	79.5 ✓
60		11.6	79.8 ✓
50		11.1	80.3 ✓
40		11.1	80.3 ✓
30		10.9	80.5 ✓
20		11.1	80.3 ✓
10		11.4	80.0 ✓
4000		12.3	79.1 ✓
3993		11.1	80.3 ✓
85		6.5	84.9 ✓
80		7.0	84.4 ✓
70		9.1	82.3 ✓
60		10.8	80.6 ✓
50		11.4	80.0 ✓

Plotted

E4310

3960	591.37	9.5	81.9 ✓
70		8.0	83.4 ✓
80		6.6	84.8 ✓
90		5.7	85.7 ✓
4000		11.3	80.1 ✓
10		11.1	80.3 ✓
20		10.6	80.8 ✓
30		11.0	80.4 ✓
40		11.4	80.0 ✓
50		11.2	80.2 ✓
60		11.6	79.8 ✓
70		11.9	79.5 ✓
80		12.1	79.3 ✓
90		11.9	79.5 ✓
4100		12.2	79.2 ✓
10		12.3	79.1 ✓
20		12.6	78.8 ✓
30		12.6	78.8 ✓
40		12.8	78.6 ✓

Plotted ✓

E4310

4150	591.37	12.9	78.5 ✓
60		12.8	78.6 ✓
70		12.9	78.5 ✓
80		13.0	78.4 ✓
90		12.9	78.5 ✓
95		12.9	78.5 ✓
4207		7.4	84.0 ✓
10	598.94 →	3.3	95.6 ✓
20		2.8	96.1 ✓
30		2.3	96.6 ✓
40		1.5	97.4 ✓
50		0.0	98.9 ✓
60		+4.0	602.9 ✓
	625.28		
65		12.0	613.3 ✓
70		11.5	613.8 ✓
80		9.9	15.4 ✓

Plotted ✓

E4320

4280	625.28	9.2	616.1 ✓
70		11.1	614.2 ✓
60		12.2	613.1 ✓
50		13.5	611.8 ✓
	598.94		
40		0.5	98.4 ✓
30		2.1	96.8 ✓
20		3.0	95.9 ✓
08		3.2	95.7 ✓
04	591.37	8.2	83.7 ✓
4197		12.6	78.8 ✓
90		13.0	78.4 ✓
80		11.6	79.8 ✓
70		13.0	78.4 ✓
60		12.8	78.6 ✓
50		12.8	78.6 ✓
40		12.5	78.9 ✓
30		12.8	78.6 ✓
20		12.7	78.7 ✓

Plotted ↓

E4320

4110	591.37	12.7	78.7 ✓
4100		12.8	78.6 ✓
4090		12.9	78.5 ✓
80		12.9	78.5 ✓
70		12.8	78.6 ✓
60		11.5	79.9 ✓
50		11.4	80.0 ✓
40		11.5	79.9 ✓
30		10.7	80.7 ✓
20		10.5	80.9 ✓
10		10.3	81.1 ✓
4000		10.2	81.2 ✓
3992		4.9	86.5 ✓
85		3.6	87.8 ✓
80		6.0	85.4 ✓
70		7.2	84.2 ✓
60		9.0	82.4 ✓

Plotted ↓

E 4330

3960		591.37	8.4	83.0 ✓
70			6.9	84.5 ✓
80			5.9	85.5 ✓
85			5.5	85.9 ✓
90	Plotted ↓		3.7	87.7 ✓
93			4.6	86.8 ✓
4002			9.9	81.5 ✓
10			9.2	82.2 ✓
20			10.1	81.3 ✓
30			11.0	80.4 ✓
40			11.3	80.1 ✓
50			11.8	79.6 ✓
60			11.4	80.0 ✓
70			13.6	77.8 ✓
80			13.6	77.8 ✓
90			13.6	77.8 ✓
4100			13.6	77.8 ✓
10			13.1	78.3 ✓
20			12.9	78.5 ✓
30			12.8	78.6 ✓

E 4330

4140		591.37	12.5	78.9 ✓
50			12.6	78.8 ✓
60			12.7	78.7 ✓
70			12.9	78.5 ✓
80			11.1	80.3 ✓
90	Plotted ↓		13.1	78.3 ✓
97			11.9	79.5 ✓
4203			8.4	83.0 ✓
		598.94		
06			3.8	95.1 ✓
10			3.4	95.5 ✓
20			2.4	96.5 ✓
30			+ 2.6	601.5 ✓
		625.28		
35			14.4	610.9 ✓
40			14.0	611.3 ✓
50			12.8	612.5 ✓
60			11.1	14.2 ✓
70			10.0	15.3 ✓
80			6.4	18.9 ✓

E 4340

625.28

4280		2.9	622.4 ✓
70		6.4	618.9 ✓
60		10.6	14.7 ✓
50		12.2	13.1 ✓
40		13.6	11.7 ✓
24		15.3	10.0 ✓
	598.94		
20		+5.2	604.1 ✓
10	Plotted ✓	2.1	596.8 ✓
04		3.6	95.3 ✓
	591.37		
4201		7.2	84.2 ✓
4190		13.0	78.4 ✓
80		13.0	78.4 ✓
70		12.7	78.7 ✓
60		12.6	78.8 ✓
50		12.5	78.9 ✓
40		12.4	79.0 ✓
30		12.6	78.8 ✓

E 4340

591.37

4120		12.7	78.7 ✓
10		12.7	78.7 ✓
4100		13.0	78.4 ✓
4090		13.5	77.9 ✓
80		13.2	78.2 ✓
70		12.6	78.8 ✓
60		11.5	79.9 ✓
50	Plotted ↓	11.4	80.0 ✓
40		11.0	80.4 ✓
30		10.6	80.8 ✓
20		9.3	82.1 ✓
10		9.4	82.0 ✓
05		9.2	82.2 ✓
3995		3.8	87.6 ✓
90		5.2	86.2 ✓
80		6.1	85.3 ✓
70		6.7	84.7 ✓

E 4350

3970		591.37	7.5	83.9 ✓
80			6.9	84.5 ✓
90			5.1	86.3 ✓
98			2.9	88.5 ✓
4009			9.6	81.8 ✓
20			9.3	82.1 ✓
30			9.7	81.7 ✓
40			10.8	80.6 ✓
50			11.2	80.2 ✓
60			11.3	80.1 ✓
70			11.9	79.5 ✓
80			12.5	78.9 ✓
90			12.5	78.9 ✓
4100			12.5	78.9 ✓
10			12.6	78.8 ✓
20			12.5	78.9 ✓
30			12.5	78.9 ✓
40			12.4	79.0 ✓
50			12.5	78.9 ✓
60			12.6	78.8 ✓

Plotted ✓

E 4350

4170		591.37	12.8	78.6 ✓
80			12.4	79.0 ✓
93			7.5	83.9 ✓
		612.75		
4198			14.9	597.9 ✓
4210			3.8	609.0 ✓
20			2.9	609.9 ✓
30			1.4	611.4 ✓
		625.28		
40			12.9	612.4 ✓
50			11.2	14.1 ✓
60			6.3	19.0 ✓
72			2.9	22.4 ✓
4280			2.5	22.8 ✓

Plotted ✓

E 4360

3970	591.37	7.7	83.7 ✓
80		6.9	84.5 ✓
90		4.2	87.2 ✓
4001		2.2	89.2 ✓
09		8.0	83.4 ✓
20		8.6	82.8 ✓
30		9.2	82.2 ✓
40		10.7	80.7 ✓
50		10.5	80.9 ✓
60		10.8	80.6 ✓
70		11.7	79.7 ✓
80		12.3	79.1 ✓
90		12.4	79.0 ✓
4100		12.5	78.9 ✓
10		12.4	79.0 ✓
20		12.4	79.0 ✓
30		12.6	78.8 ✓
40		12.6	78.8 ✓
50		12.8	78.6 ✓
60		12.8	78.6 ✓

Plotted ✓

E 4360

4170	591.37	12.2	79.2 ✓
85		7.5	83.9 ✓
	612.75		
87		11.1	601.7 ✓
94		5.0	07.8 ✓
4200		4.5	8.3 ✓
10		3.4	9.4 ✓
20		2.1	10.7 ✓
	625.28		
30		13.6	11.7 ✓
35		12.8	12.5 ✓
40		11.0	14.3 ✓
55		5.6	19.7 ✓
60		5.1	20.2 ✓
70		3.9	21.4
80		3.2	22.1 ✓

Plotted ✓

E4370

3970	591.37	8.8	82.6 ✓
80		4.5	86.9 ✓
90		4.1	87.3 ✓
4000		1.5	89.9 ✓
04		1.6	89.8 ✓
14		8.2	83.2 ✓
20		8.8	82.6 ✓
30		8.6	82.8 ✓
40		9.3	82.1 ✓
50		10.2	81.2 ✓
60		11.3	80.1 ✓
70		12.5	78.9 ✓
80		12.2	79.2 ✓
90		12.6	78.8 ✓
4100		12.6	78.8 ✓
10		12.6	78.8 ✓
20		12.5	78.9 ✓
30		12.7	78.7 ✓
40		12.8	78.6 ✓
50		12.8	78.6 ✓

Plotted ✓

E4370

4160	591.37	12.3	79.1 ✓
77		6.1	85.3 ✓
	612.75		
82		16.4	596.4 ✓
90		12.3	600.5 ✓
95		9.1	603.7 ✓
4197		3.8	609.0 ✓
4210		2.5	610.3 ✓
	625.28		
20		13.7	611.6 ✓
30		10.4	14.9 ✓
40		7.7	17.6 ✓
50		6.6	18.7 ✓
60		5.8	19.5 ✓
70		4.9	20.4 ✓
4280		4.0	21.3 ✓

Plotted ✓

E 4380

3980	591.37	5.0	586.4	✓
90		3.8	87.6	✓
4000		2.0	89.4	✓
08		1.1	90.3	✓
18		7.2	84.2	✓
30		8.0	83.4	✓
40		7.2	84.2	✓
50		7.3	84.1	✓
60		12.4	79.0	✓
70		13.2	78.2	✓
80		12.9	78.5	✓
90		12.3	79.1	✓
4100		12.5	78.9	✓
10		12.4	79.0	✓
20		12.7	78.7	✓
30		12.6	78.8	✓
40		12.6	78.8	✓
50		12.3	79.1	✓
60		7.2	84.2	✓
70		3.5	87.9	✓

Plotted ✓

E 4380

	612.75		
4178		15.0	597.8 ✓
85		13.1	599.7 ✓
90		4.4	608.4 ✓
4200		3.0	9.8 ✓
10		1.7	11.1 ✓
	625.28		
22		9.6	15.7 ✓
30		9.2	16.1 ✓
40		8.3	17.0 ✓
50		7.4	17.9 ✓
60		6.5	18.8 ✓
70		5.8	19.5 ✓
80		4.8	20.5 ✓

Plotted ✓

E 4390

3980	598.94	12.1	86.8	✓
90		11.3	87.6	✓
4000		9.7	89.2	✓
11		8.0	90.9	✓
20	591.37	7.0	84.4	✓
30	Plotted ✓	6.9	84.5	✓
40		6.4	85.0	✓
50		5.2	86.2	✓
56		4.6	86.8	✓
62		13.1	78.3	✓
70		13.6	77.8	✓
80		13.1	78.3	✓
90		12.2	79.2	✓
4100		12.4	79.0	✓
10		12.5	78.9	✓
20		12.5	78.9	✓
30		12.5	78.9	✓
40		12.0	79.4	✓
50		10.7	80.7	✓
55		7.1	84.3	✓

E 4390

	612.75			
61		16.9	95.9	✓
69		14.1	98.7	✓
71		9.1	603.7	✓
76		5.2	607.6	✓
80		4.9	7.9	✓
90		3.6	9.2	✓
4200		2.2	10.6	✓
	625.28			
10		10.8	14.5	✓
20		10.7	14.6	✓
30		9.8	15.5	✓
40		9.0	16.3	✓
50		7.9	17.4	✓
60		7.1	18.2	✓
70		6.4	18.9	✓
4280		3.0	22.3	✓

Plotted ✓

E 4400

3980		598.94	13.0	85.9 ✓
90			11.4	87.5 ✓
4000			9.8	89.1 ✓
10			7.3	91.6 ✓
15			7.0	91.9 ✓
		591.37		
28	Plotted ✓		6.2	85.2 ✓
40			5.7	85.7 ✓
50			5.9	85.5 ✓
57			4.5	86.9 ✓
65			13.3	78.1 ✓
80			13.1	78.3 ✓
90			11.8	79.6 ✓
4100			12.2	79.2 ✓
10			12.3	79.1 ✓
20			12.2	79.2 ✓
30			12.2	79.2 ✓
40			12.4	79.0 ✓
50			11.8	79.6 ✓
60			5.4	86.0 ✓

E 4400

		612.75		
4164			17.3	95.5 ✓
70			16.6	96.2 ✓
82			9.0	603.8 ✓
85			3.7	609.1 ✓
4200	Plotted ✓		0.3	12.5 ✓
10			+0.5	13.3 ✓
20			+1.2	14.0 ✓
30			+2.0	14.8 ✓
40			+2.9	15.7 ✓
		631.20		
50			14.1	617.1 ✓
60			13.6	17.6 ✓
70			12.5	18.7 ✓
80			7.4	23.8 ✓
T.P.			12.72	618.48 ✓
	6.80	625.28 ✓		

E4410

3990	598.94	10.9	88.0	✓
4000		8.9	90.0	✓
10		6.7	92.2	✓
22		6.3	92.6	✓
	591.37			
35		5.2	86.2	✓
50		5.8	85.6	✓
62	Plotted ✓	5.2	86.2	✓
68		12.3	79.1	✓
80		11.9	79.5	✓
90		11.0	80.4	✓
4100		11.7	79.7	
10		11.8	79.6	✓
20		11.8	79.6	✓
30		11.7	79.7	✓
40		11.5	79.9	✓
51		12.3	79.1	✓
63		4.8	86.6	✓
	612.75			
65		15.5	97.3	✓
70		13.5	99.3	✓

E4410

4178	612.75	9.6	603.2 ✓
81		3.5	9.3 ✓
90		1.8	11.0 ✓
4200		1.0	11.8 ✓
10		0.1	12.7 ✓
20		+0.6	13.4 ✓
	631.2		
30	Plotted ✓	17.2	14.0 ✓
40		15.9	15.3 ✓
50		14.4	16.8 ✓
60		13.9	17.3 ✓
64		13.6	17.6 ✓
70		8.3	22.9 ✓
80		2.6	28.6 ✓
90		3.0	28.2 ✓
4300		1.0	30.2 ✓

E4420

4000	598.94	6.1	92.8 ✓
10		5.9	93.0 ✓
20		6.0	92.9 ✓
30		6.1	92.8 ✓
44	591.37	6.0	85.4 ✓
50	Plotted ✓	6.1	85.3 ✓
61		5.6	85.8 ✓
70		10.5	80.9 ✓
80		11.2	80.2 ✓
90		11.3	80.1 ✓
4100		11.4	80.0 ✓
10		11.4	80.0 ✓
20		11.2	80.2 ✓
30		11.2	80.2 ✓
40		11.0	80.4 ✓
50		11.1	80.3 ✓
61		5.1	86.3 ✓
	612.75		
66		15.3	597.5 ✓

E4420

4177	612.75	7.2	605.6 ✓
78		3.7	609.1 ✓
90		2.3	10.5 ✓
4200		1.6	11.2 ✓
10		0.8	12.0 ✓
20		0.0	12.8 ✓
	631.2		
30	Plotted ✓	17.9	13.3 ✓
40		17.2	14.0 ✓
50		15.9	15.3 ✓
60		13.5	17.7 ✓
69		4.6	26.6 ✓
77		0.8	30.4 ✓
90		1.9	29.3 ✓
4300		1.2	30.0 ✓

E 4430

4010		598.94	5.6	93.3 ✓
20			5.7	93.2 ✓
30			5.9	93.0 ✓
40			5.2	93.7 ✓
52		591.37	6.7	84.7 ✓
60			6.8	84.6 ✓
65			5.9	85.5 ✓
75			10.0	81.4 ✓
80			10.4	81.0 ✓
90			10.4	81.0 ✓
4100			10.7	80.7 ✓
10			10.3	81.1 ✓
20			10.5	80.9 ✓
30			10.2	81.2 ✓
40			8.6	82.8 ✓
56			3.0	88.4 ✓
B.M.	8.93	612.75		603.82
B.M.	+(-1.44)	631.20		632.64

Plotted ✓

E 4430

	612.75		
59		16.8	596.0 ✓
73		4.2	08.6 ✓
80		3.9	08.9 ✓
90		3.0	09.8 ✓
4200		2.1	10.7 ✓
10		1.3	11.5 ✓
20		0.6	12.2 ✓
30		0.0	12.8 ✓
40		+0.1	12.9 ✓
	631.2		
50		17.2	14.0 ✓
60		10.3	20.9 ✓
63		5.8	25.4 ✓
70		1.6	29.6 ✓
80		2.0	29.2 ✓
90		1.2	30.0 ✓
4300		1.6	29.6 ✓

Plotted ✓

E 4440

4010		598.94	5.6	593.3 ✓
20			5.5	93.4 ✓
35			5.6	93.3 ✓
40			3.3	95.6 ✓
49			5.7	93.2 ✓
62		591.37	7.5	83.9 ✓
70	Plotted ←		8.0	83.4 ✓
80			8.9	82.5 ✓
90			9.6	81.8 ✓
4100			10.1	81.3 ✓
10			10.3	81.1 ✓
20			9.4	82.0 ✓
30			8.3	83.1 ✓
40			1.8	89.6 ✓
		614.7		
52			17.3	597.4 ✓
62			7.2	607.5 ✓

E 4440

614.7 ↓

73		6.9	607.8 ✓
74		10.1	4.6 ✓
79		9.2	5.5 ✓
80		6.2	8.5 ✓
90		5.4	9.3 ✓
4200	Plotted ←	4.3	10.4 ✓
10		3.5	11.2 ✓
20		3.4	11.3 ✓
30		3.0	11.7 ✓
40		2.1	12.6 ✓
48		0.4	14.3 ✓
	631.9 ↑		
58		11.5	20.4 ✓
60		7.1	24.8 ✓
69		2.5	29.4 ✓
80		2.0	29.9 ✓
90		2.2	29.7 ✓
4300		2.4	29.5 ✓

E 4450

4020		598.94	5.2	93.7 ✓
30			5.3	93.6 ✓
40			5.2	93.7 ✓
45			2.2	96.7 ✓
50			4.2	94.7 ✓
58			6.9	92.0 ✓
67		591.37	7.5	83.9 ✓
80			8.0	83.4 ✓
90			7.6	83.8 ✓
4100			6.4	85.0 ✓
10			5.8	85.6 ✓
20			5.6	85.8 ✓
25			4.2	87.2 ✓
30		598.94	5.4	93.5 ~~86.0~~ 95.9
40			3.0	~~88.1~~
B.M.	10.91	614.73		603.82
50			12.3	602.4 ✓
54			9.7	5.0 ✓
58			12.6	2.1 ✓
66			12.6	2.1 ✓

Plotted ✓

E 4450

4167	614.73	8.2	606.5 ✓
80		6.8	7.9 ✓
90		5.6	9.1 ✓
4200		4.6	10.1 ✓
10		5.8	8.9 ✓
20		3.5	11.2 ✓
30		3.4	11.3 ✓
37		2.2	12.5 ✓
B.M. + (-0.70)	631.94		632.64
50		14.2	17.7 ✓
51		11.7	20.2 ✓
60		6.2	25.7 ✓
67		2.9	29.0 ✓
80		2.4	29.5 ✓
90		2.3	29.6 ✓
4300		2.4	29.5 ✓

Plotted ✓

Mar 20 - 1934

E 4460

B.M.	1.38	L #1 634.02		632.64
4300			4.5	29.5 ✓
4290			4.5	29.5 ✓
80			4.4	29.6 ✓
70			4.6	29.4 ✓
60			6.2	27.8 ✓
50			13.6	20.4 ✓
45			12.7	21.3 ✓
42			17.1	16.9 ✓
36			17.3	16.7 ✓
25			22.3	12.7 ✓
		L #2 612.75		
25			1.0	11.8 ✓
20			1.9	10.9 ✓
10			2.8	10.0 ✓
4200			3.6	9.2 ✓
4190			4.3	8.5 ✓
80			5.1	7.7 ✓
70			6.3	6.5 ✓

Plotted ↓

E 4460

4160	612.75	7.5	605.3 ✓
50		8.6	4.2 ✓
40		10.4	2.4 ✓
30		12.6	600.2 ✓
T.P.		12.77	599.98 ✓
	1.12	T 601.10 ✓	
20		3.8	597.3 ✓
10		6.5	94.6 ✓
4100		8.9	92.2 ✓
4090		15.1	86.0 ✓
80		16.2	84.9 ✓
70		13.8	87.3 ✓
60		8.8	92.3 ✓
50		6.9	94.2 ✓
40		6.9	94.2 ✓
30		7.0	94.1 ✓

Plotted ↓

E 4470

4030	#1 601.10	6.3	594.8	✓
40		6.5	94.6	✓
50		6.3	94.8	✓
60		6.0	95.1	✓
65		10.5	90.6	✓
75		5.9	95.2	✓
80		5.0	96.1	✓
90		4.7	96.4	✓
4100		3.4	97.7	✓
10		2.0	99.1	✓
20		0.9	600.2	✓
30		+0.1	601.2	✓
	#2 612.75			
40		10.4	602.4	✓
50		8.9	3.9	✓
60		7.9	4.9	✓
70		6.7	6.1	✓
80		5.7	7.1	✓
90		5.0	7.8	✓

Plotted ✓

E 4470

4200	#2 612.75	4.0	608.8 ✓
10		3.1	9.7 ✓
20		0.1	12.7 ✓
30		+3.4	16.2 ✓
35		+3.4	16.2 ✓
	#1 634.02		
50		6.1	27.9 ✓
55		7.5	26.5 ✓
65		4.6	29.4 ✓
70		4.5	29.5 ✓
80		4.3	29.7 ✓
90		4.4	29.6 ✓
4300		4.2	29.8 ✓

Plotted ✓

E 4480

#1
634.02

Plotted ↓

4310	4.0	630.0	✓
4300	4.6	29.4	✓
4290	4.2	29.8	✓
80	4.2	29.8	✓
70	4.3	29.7	✓
60	4.4	29.6	✓
50	4.5	29.5	✓
44	4.7	29.3	✓
40	8.2	25.8	✓
30	14.2	19.8	✓
24	18.8	15.2	✓
14	18.5	15.5	✓

#2
612.75

10	0.3	12.5	✓
05	3.7	9.1	✓
4200	4.4	8.4	✓
4190	5.6	7.2	✓
80	6.7	6.1	✓
70	7.0	605.8	✓

E 4480

Plotted ↓

4160	612.75	8.3	604.5	✓
50		9.2	3.6	✓
40		10.3	2.5	✓
30		11.4	1.4	✓
20		12.5	600.3	✓
10		13.6	599.2	✓

↑
601.10

4100		2.9	598.2	✓
4090		3.7	97.4	✓
80		4.3	96.8	✓
70		4.7	96.4	✓
60		5.4	95.7	✓
50		5.6	95.5	✓
40		5.7	95.4	✓

E 4490

↑ 601.10

4040			5.0	596.1 ✓
50			4.9	96.2 ✓
60			4.7	96.4 ✓
70			4.3	96.8 ✓
80			3.8	97.3 ✓
90			3.2	97.9 ✓
4100			2.4	98.7 ✓
10			1.5	99.6 ✓
20			0.3	00.8 ~~99.8~~
		#2 612.75		
30			11.1	601.7 ✓
40			10.2	2.6 ✓
50			9.5	3.3 ✓
60			8.7	4.1 ✓
70			7.8	5.0 ✓
80			7.1	5.7 ✓
90			5.5	7.3 ✓
4200			1.7	11.1 ✓

Plotted ✓

E4490

#2 612.75

4210	+2.2	615.0 ✓
20	+2.6	15.4 ✓
	±, 634.02	
30	12.9	621.1 ✓
39	4.5	29.5 ✓
50	4.3	29.7 ✓
60	4.1	29.9 ✓
70	4.0	30.0 ✓
80	4.0	30.0 ✓
90	4.2	29.8 ✓
4300	4.4	29.6 ✓
10	4.4	29.6 ✓

Plotted ✓

E4500

10	4.0	30.0 ✓
4300	4.3	29.7 ✓
4290	4.3	29.7 ✓
80	4.2	29.8 ✓
70	3.9	30.1 ✓

E4500

	#1			
4260	634.02	3.8	630.2	
50		4.0	30.0	✓
40		4.2	29.8	✓
32		4.3	29.7	✓
30		9.3	24.7	✓
20		14.8	19.2	✓
10		18.4	15.6	✓
4200		19.3	14.7	✓
4195		19.5	14.5	✓
	#2			
	612.75			
90		4.4	608.4	✓
80		5.7	7.1	✓
70		7.1	5.7	✓
60		8.4	4.4	✓
50		9.6	3.2	✓
40		10.5	2.3	✓
30		10.9	1.9	✓
20		12.0	600.8	✓
10		12.6	600.2	✓

Plotted ✓

E4500

	#2		
	612.75		
4100		13.4	599.4 ✓
	T		
	601.1		
4090		2.6	598.5 ✓
80		3.3	97.8 ✓
70		4.0	97.1 ✓
60		4.1	97.0 ✓
50		4.5	96.6 ✓

Plotted ✓

E4510

4060	4.3	96.8 ✓
70	3.9	97.2 ✓
80	3.1	98.0 ✓
90	0.7	600.4 ✓
4100	2.2	598.9 ✓
10	1.2	99.9 ✓
20	0.1	601.0 ✓
	#2	
	612.75	
30	10.3	602.5 ✓
40	10.3	2.5 ✓

E 4510

		#2 612.75		
4150			9.3	603.5 ✓
60			6.2	6.6 ✓
70			6.2	6.6 ✓
80			3.9	8.9 ✓
T.P.			2.78	609.97 ✓
		New π H.I.		
	11.05	621.02 ✓		
90			10.8	610.2 ✓
91			6.6	614.8 ✓
4200		Plotted	4.9	616.2 ✓
10			2.3	618.7 ✓
		#1 634.02		
18			10.8	623.2 ✓
24			4.2	29.8 ✓
30			3.9	30.1 ✓
40			3.8	30.2 ✓
50			3.6	30.4 ✓
60			3.7	30.3 ✓
70			3.8	30.2 ✓
80			4.2	29.8 ✓

E 4510

#1 634.02

4290	4.2	629.8 ✓
4300	4.1	29.9 ✓
10	1.5	32.5 ✓
20	0.0	34.0 ✓

E 4520

4320	+2.8	36.8 ✓
10	+0.8	34.8 ✓
07	+0.8	34.8 ✓
4300	4.0	30.0 ✓
4290	4.3	29.7 ✓
80	4.3	29.7 ✓
70	3.7	30.3 ✓
60	3.2	30.8 ✓
50	3.4	30.6 ✓
40	3.3	30.7 ✓
30	3.5	30.5 ✓
20	3.8	30.2 ✓
16	4.3	29.7 ✓

Plotted

E4520

4215	#1 634.02	7.1	626.9	✓
10		10.3	23.7	✓
	#1 621.02			
4200		2.6	18.4	✓
4190		5.4	15.6	✓
80		6.5	14.5	✓
70		6.4	14.6	✓
65		6.2	14.8	✓
60		12.2	608.8	✓
	#2 612.75			
50		5.6	7.2	✓
40		10.0	2.8	✓
30		11.1	1.7	✓
20	Plotted. ✓	12.0	600.8	✓
10		12.3	600.5	✓
4100		11.7	601.1	✓
4097		12.1	600.7	✓
93		7.5	605.3	✓
85		8.9	3.9	✓

E4520

	#2 612.75	11.7	601.1	✓
4080		12.7	600.1	✓
70		13.6	599.2	✓
60				

E4530

		6.9	605.9	✓
4060		5.8	607.0	✓
70		3.9	608.9	✓
80		2.0	610.8	✓
4090		10.7	602.1	✓
4105	Plotted ✓	11.2	601.6	✓
20		10.9	601.9	✓
30		10.3	602.5	✓
40		9.1	603.7	✓
50		3.5	609.3	✓
60				
	#1 621.02			
65		6.1	614.9	✓
74		6.0	15.0	✓
80		4.1	16.9	✓
90		1.0	20.0	✓

E4530

4200	#1 634.02	9.5	624.5 ✓	
10		7.4	26.6 ✓	
15		3.3	30.7 ✓	
30		3.0	31.0 ✓	
40		3.1	30.9 ✓	
50	Plotted ✓	3.3	30.7 ✓	
60		3.5	30.5 ✓	
70		4.0	30.0 ✓	
80		3.9	30.1 ✓	
90		3.8	30.2 ✓	
4298		3.6	30.4 ✓	
4302		+2.7	36.7 ✓	
10		+4.6	38.6 ✓	
20		+5.7	39.7 ✓	

E4540

20		+8.3	42.3 ✓	
10		+6.4	40.4 ✓	
4304		+5.9	39.9 ✓	
4299		-0.8	33.2 ✓	

E4540

4290	#1 634.02	3.5	630.5 ✓	
80		3.6	30.4 ✓	
70		2.8	31.2 ✓	
60		2.9	31.1 ✓	
50		3.0	31.0 ✓	
40		3.0	31.0 ✓	
30		2.8	31.2 ✓	
20	Plotted ✓	2.7	31.3 ✓	
4210		2.9	31.1 ✓	
4196		2.8	31.2 ✓	
95		5.7	28.3 ✓	
90		7.9	26.1 ✓	
80		12.1	21.9 ✓	
Check of HI 0.0	✓ 621.02	13.0	621.0 ✓	
70		0.8	20.2 ✓	
57		5.5	15.5 ✓	
53		10.2	10.8 ✓	
	#2 612.75			
40		7.7	605.1 ✓	

E4540

4130	#2 612.75	7.8	605.0	✓
20		8.2	604.6	✓
10		8.5	604.3	✓
4105		7.4	605.4	✓
	621.02			
4095		5.7	15.3	✓
80		5.7	15.3	✓
70		5.1	15.9	✓

E4550

4070		5.5	15.5	✓
80		5.5	15.5	✓
90	Plotted ✓	5.5	15.5	✓
4100		5.4	15.6	✓
10		5.5	15.5	✓
20		12.6	608.4	✓
30		5.2	615.8	✓
40		4.2	16.8	✓
50		1.6	19.4	✓

E4550

4160	#1 634.02	11.6	622.4	✓
70		9.1	24.9	✓
77		5.7	28.3	✓
78		2.3	31.7	✓
90		2.9	31.1	✓
4200		2.4	31.6	✓
10		2.3	31.7	✓
20		2.5	31.5	✓
30	Plotted ✓	2.8	31.2	✓
40		3.0	31.0	✓
50		2.9	31.1	✓
60		2.3	31.7	✓
70		2.2	31.8	✓
80		2.2	31.8	✓
B.M.	12.61 #2 ✓ 645.25		632.64	
4293		13.4	631.9	✓
4304		7.8	637.5	✓
07		2.7	42.6	✓
20		0.0	45.3	✓

E4560

		#2 645.25			
4320			+2.7	648.0	✓
10			0.0	45.3	✓
4304			7.7	37.6	✓
4295			13.6	31.7	✓
80			13.4	31.9	✓
70			13.8	31.5	✓
60			13.7	31.6	✓
50			13.7	31.6	✓
40			14.0	31.3	✓
		#1 634.02			
30			2.9	31.1	✓
20			2.5	31.5	✓
10		Plotted ↓	2.1	31.9	✓
4200			1.8	32.2	✓
4190			1.7	32.3	✓
80			2.2	31.8	✓
70			1.4	32.6	✓
58			1.8	32.2	✓
58	Too		5.7	28.3	✓

E4560

	#1			
4150	634.02	7.8	626.2	✓
40		11.5	22.5	✓
	#2 621.02			
30		2.3	18.7	✓
20		4.5	16.5	✓
10		4.8	16.2	✓
4100	Plotted ↓	5.3	15.7	✓
4090		5.2	15.8	✓
80		5.2	15.8	✓

E4570

4080	3.9	17.1	✓
90	2.8	18.2	✓
4100	2.1	18.9	✓
10	0.8	20.2	✓
	#1 634.02		
20	11.9	22.1	✓
30	8.7	25.3	✓
44	3.2	30.8	✓
45	0.7	33.3	✓

E 4570

		#1		
4150		634.02	0.5	633.5 ✓
60			1.1	32.9 ✓
70			1.1	32.9 ✓
80			1.1	32.9 ✓
90			1.3	32.7 ✓
4200		Plotted ↓	1.7	32.3 ✓
10			2.1	31.9 ✓
20			2.5	31.5 ✓

End Mar. 20 - 1934

Start Mar. 21 - 1934 - 3:00 P.M.

Elliott
Simpson
Soper
Remmen

		L. #1 ✓		
B. M.	7.26	639.90		632.64
T. P.			0.21	639.69 ✓
	12.74	L. #2 ✓ 652.43		
		#1		
		639.9		
30			8.4	31.5 ✓
40			8.5	31.4 ✓
50			8.2	31.7 ✓

4260				
70				
80				
90				
4296				
4307				
14				
20				
26				
4340				
35				
19				
11				
4302				
4290				
80				

E 4570

#1			
639.9	8.0	631.9 ✓	
	8.0	31.9 ✓	
	8.1	31.8 ✓	
Plotted ↓	8.0	31.9 ✓	
	7.7	32.2 ✓	
	2.3	37.6 ✓	
#2			
652.4			
	5.2	647.2 ✓	
	1.8	50.6 ✓	
	+0.9	53.3 ✓	

E 4580

	+4.5	56.9 ✓	
	+7.0	59.4 ✓	
	2.6	49.8 ✓	
#1			
639.9			
	2.1	37.8 ✓	
	6.7	33.2 ✓	
	7.6	32.3 ✓	
	7.8	32.1 ✓	

E4580

42 70	#1	639.9	7.8	32.1	✓
60			7.9	32.0	✓
50			8.1	31.8	✓
30			8.4	31.5	✓
20			8.3	31.6	✓
10			7.9	32.0	✓
4200			7.5	32.4	✓
4190			7.1	32.8	✓
80		Plotted ↓	6.8	33.1	✓
70			6.5	33.4	✓
60			6.3	33.6	✓
50			6.2	33.7	✓
40			6.2	33.7	✓
30			5.5	34.4	✓
21			6.7	33.2	✓
18			11.2	28.7	✓
10			12.9	27.0	✓
4100			15.1	24.8	✓
4090			15.9	24.0	✓
80			17.4	22.5	✓

E4590

4080	#1	639.9	9.3	30.6	✓
90			9.1	30.8	✓
4100			5.3	34.6	✓
10			4.7	35.2	✓
20			5.3	34.6	✓
30			5.4	34.5	✓
40			5.5	34.4	✓
50		↓	5.7	34.2	✓
60		Plotted	5.8	34.1	✓
70			6.1	33.8	✓
80			6.2	33.7	✓
90			6.3	33.6	✓
4200			7.0	32.9	✓
10			7.4	32.5	✓
20			7.7	32.2	✓
30			7.8	32.1	✓
40			8.0	31.9	✓
50			7.9	32.0	✓
60			7.7	32.2	✓

E 4590

70		#1 639.9	7.6	632.3 ✓
80			7.2	32.7 ✓
90			6.7	33.2 ✓
4300			6.7	33.7 .2
06			6.8	33.1 ✓
16			1.3	38.6 ✓
		#2 652.4		
21			1.1	51.3 ✓
29			+4.9	657.3 ✓
40			+3.5	55.9 ✓
		End Mar 21 - 1934		
		Start Mar 22 - 1934 Same Crew		
B.M.	11.09	L. #1 643.73 ✓		632.64 ✓
T.P.			0.22	643.51 ✓
	12.68	656.19 ✓		
T.P.			0.15	656.04 ✓
	4.39	L. #2 660.43 ✓		
	13.28	669.32 ✓		656.04 ✓
T.P.			5.47	663.85 ✓
	11.84	675.69 ✓		

E 4600

4080	#1 643.7	7.9	635.8 ✓
90		8.1	35.6 ✓
4100		8.2	35.5 ✓
10		8.3	35.4 ✓
20		8.4	35.3 ✓
30		8.7	35.0 ✓
40		8.8	34.9 ✓
50		9.0	34.7 ✓
60		9.2	34.5 ✓
70		9.6	34.1 ✓
80		9.9	33.8 ✓
90		10.1	33.6 ✓
4200		10.7	33.0 ✓
10		10.9	32.8 ✓
20		11.2	32.5 ✓
30		10.7	33.0 ✓
40		11.3	32.4 ✓
50		11.2	32.5 ✓
60		11.1	32.6 ✓

E 4600

4270	#1 643.7	10.9	632.8	✓
80		10.3	33.4	✓
90		9.8	33.9	✓
4300	Plotted ↓	9.8	33.9	✓
10		10.2	33.5	✓
19		5.5	38.2	✓
	#2 660.4			
25		7.2	53.2	✓
28		3.9	56.5	✓
40		4.7	55.7	✓
45		4.7	55.7	✓
47		0.1	60.3	✓

E 4610

4345		+1.6	62.0	✓
42		5.0	55.4	✓
27		4.2	56.2	✓
21		10.3	50.1	✓
	#1 643.7			
19		3.5	40.2	✓

E 4610

4308	#1 643.7	9.5	34.2	✓
4300		8.9	34.8	✓
90		9.2	34.5	✓
80		9.6	34.1	✓
70		9.8	33.9	✓
60		10.6	33.1	✓
50		11.2	32.5	✓
40		11.1	32.6	✓
30	Plotted ↓	11.1	32.6	✓
20		10.9	32.8	✓
10		10.7	33.0	✓
4200		10.5	33.2	✓
4190		10.3	33.4	✓
80		9.6	34.1	✓
70		9.0	34.7	✓
60		8.8	34.9	✓
50		8.7	35.0	✓
40		8.5	35.2	✓
30		8.2	35.5	✓

E4610 #1 643.7

4120	8.1	635.6	✓
10	7.9	35.8	✓
4100	7.7	36.0	✓
4090	7.6	36.1	✓

E4620

90	6.8	36.9	✓
4100	6.7	37.0	✓
10	6.8	36.9	✓
20	7.2	36.5	✓
30	7.9	35.8	✓
40	8.4	35.3	✓
50	8.5	35.2	✓
60	8.7	35.0	✓
70	9.1	34.6	✓
80	9.6	34.1	✓
90	10.0	33.7	✓
4200	10.2	33.5	✓
10	10.3	33.4	✓
20	10.6	33.1	✓

Plotted ✓

E4620 #1 643.7

4230	10.6	633.1	✓
40	10.6	33.1	✓
50	9.4	34.3	✓
60	9.2	34.5	✓
70	9.2	34.5	✓
80	8.7	35.0	✓
4290	8.1	35.6	✓
4303	8.0	35.7	✓
12	3.5	40.2	✓

#2 660.43

Plotted ✓

17	10.7	49.7	✓
25	4.7	55.7	✓
30	5.7	54.7	✓
39	5.7	54.7	✓

T 675.7

42	12.6	663.1	✓
50	13.4	662.3	✓

E 4630

4360	#1 675.7	12.8	62.9
50		12.1	63.6
42		11.5	64.2
	#2 660.4		
38		0.2	60.2
37		3.6	56.8
31		6.2	54.2
22		5.9	54.5
18		5.3	55.1
	#1 643.7		
10		+1.1	44.8
07		+1.0	44.7
05		6.0	37.7
4300		7.1	36.6
4290		7.0	36.7
80		8.1	35.6
70		8.9	34.8
60		9.0	34.7
50		9.3	34.4

Plotted

E 4630

4240	#1 643.7	8.2	635.5
30		8.9	34.8
20		9.0	34.7
10		10.5	33.2
4200		10.1	33.6
4190		9.8	33.9
80		10.0	33.7
70		8.7	35.0
60		8.7	35.0
50		8.0	35.7
40		7.0	36.7
28		6.5	37.2
18		0.8	42.9
	#2 660.4		
10		16.6	43.8
4100		15.9	44.5

Plotted

E 4640

	#2 660.4		
4100		10.7	649.7
10		10.2	50.2
20		10.8	49.6
24		11.3	49.1
	#1 643.7		
29		4.4	39.3
40		8.3	35.4
50		8.5	35.2
60		8.7	35.0
70		8.8	34.9
80		9.5	34.2
90		7.9	35.8
4200		7.3	36.4
10		7.7	36.0
20		7.8	35.9
30		8.4	35.3
40		9.0	34.7
50		9.7	34.0
60		9.2	34.5

Plotted

E 4640

	#1 643.7		
4270		9.2	34.5
80		8.0	35.7
90		7.0	36.7
4297		4.9	38.8
	#2 660.4		
4310		5.6	54.8
16		6.0	54.4
26		5.4	55.0
33		2.0	58.4
	T 675.7		
38		9.1	66.6
43		10.3	65.4
60		11.6	64.1
70		11.5	64.2

Plotted

E 4650

4380		7.8	67.9
70		9.0	66.7
65		10.7	65.0
50		9.7	66.0

E 4650

43 40	675.7	8.9	666.8 ✓
35		7.4	68.3 ✓
33		8.8	66.9 ✓
32		14.7	61.0 ✓
	#2 660.4		
20		4.4	56.0 ✓
10		5.5	54.9 ✓
4300	Plotted ↓	4.6	55.8 ✓
4293		3.7	56.7 ✓
89		4.5	55.9 ✓
80		16.7	43.7 ✓
	#1 643.7		
70		3.4	40.3 ✓
60		5.8	37.9 ✓
50		7.1	36.6 ✓
40		8.6	35.1 ✓
30		8.9	34.8 ✓
20		8.6	35 1/2 ✓
10		8.5	35 1/2 ✓

E 4650

	#1 643.7		
42.00		7.5	636.2 ✓
4190		7.4	36.3 ✓
80		8.4	35.3 ✓
70		9.1	34.6 ✓
60	Plotted ↓	8.5	35.2 ✓
50		7.1	36.6 ✓
38		6.8	36.9 ✓
31		2.6	41.1 ✓
	#2 660.4		
26		8.5	51.9 ✓
20		5.8	54.6 ✓
10		5.7	54.7 ✓
4100		5.3	55.1 ✓

E 4660

4100		+0.3	60.7 ✓
10		+1.1	61.5 ✓
20		1.1	59.3 ✓
28		1.6	58.8 ✓
30		4.9	55.5 ✓

E 4660

4136	#1 643.7	0.8	642.9	✓
41		2.4	41.3	✓
50		2.1	41.6	✓
60		1.2	42.5	✓
70		6.4	37.3	✓
80		6.1	37.6	✓
90		7.8	35.9	✓
4200		6.5	37.2	✓
10	Plotted ✓	7.5	36.7	✓
20		6.7	37.0	✓
30		5.1	38.6	✓
40		3.5	40.2	✓
50		1.2	42.5	✓
	#2 660.4			
60		13.1	47.3	✓
75		6.1	54.3	✓
79		1.8	58.6	✓
90		3.3	57.1	✓
4300		3.7	56.7	✓

E 4660

4310	#2 660.4 ↑ 675.7	4.4	656.0	✓
30		10.7	65.0	✓
32		6.6	69.1	✓
40		7.8	67.9	✓
50	Plotted ✓	8.5	67.2	✓
60		9.4	66.3	✓
70		7.5	68.2	✓
80		7.0	68.7	✓
85		5.9	69.8	✓

E 4670

4380	5.7	70.0	✓
70	3.7	72.0	✓
60	7.6	68.1	✓
50	7.6	68.1	✓
40	6.7	69.0	✓
30	5.3	70.4	✓
22	3.9	71.8	✓
13	13.5	62.2	✓
08	10.3	65.4	✓

E 4670

		↑ 675.7		
4297			15.4	660.3 ✓
90			17.3	58.4 ✓
80			17.0	58.7 ✓
70			16.0	59.7 ✓
62			15.5	60.2 ✓
		#2 660.4		
52			4.4	56.0 ✓
32			4.2	56.2 ✓
18			9.1	51.3 ✓
	Plotted ↓	#1 643.7		
4205			0.6	43.1 ✓
4190			2.6	41.1 ✓
80			1.5	42.2 ✓
		#2 660.4		
70			13.0	47.4 ✓
60			10.6	49.8 ✓
46			10.5	49.9 ✓
38			8.8	51.6 ✓

E 4670

		↑ 675.7		
4135			14.7	661.0 ✓
33			10.7	65.0 ✓
30	Plotted ↓		10.2	65.5 ✓
20			10.9	64.8 ✓
10			8.4	67.3 ✓

E 4680

4110			5.3	70.4 ✓
20			5.9	69.8 ✓
30			5.4	70.3 ✓
42			8.4	67.3 ✓
		#2 660.4		
47			2.5	57.9 ✓
50	Plotted		4.3	56.1 ✓
60			4.1	56.3 ✓
70			8.1	52.3 ✓
4179			8.4	52.0 ✓
		↑ 675.7		
4230			10.1	65.6 ✓
40			10.7	65.0 ✓

E 4680

		T 675.69			
4250			11.6	664.1	
60			13.5	62.2	
73			11.3	64.4	
T.P.			0.84	674.85	
		L. "A"			
	9.46	684.31			
85			9.6	74.7	
90			9.0	75.3	
4300			8.2	76.1	
10			10.1	74.2	
20			12.1	72.2	
30			13.3	71.0	
40			14.2	70.1	
50			14.6	69.7	
60			12.9	71.4	
69			11.8	72.5	
T.P.			0.38	683.93	
		L. "B"			
	12.75	696.68			
Check B.M.			0.34	696.34	696.36
76			11.7	685.0	
86			10.0	86.7	

Plotted

E 4690

		B. 696.7			
4379			8.9	687.8	
73			11.2	85.5	
		A 684.3			
68			10.6	73.7	
60			8.0	76.3	
50			9.9	74.4	
40			12.6	71.7	
30			12.5	71.8	
20			11.5	72.8	
10			10.0	74.3	
4300			8.9	75.4	
4290			7.4	76.9	
80			6.5	77.8	
70			4.9	79.4	
57			6.5	77.8	
		A 675.7			
54			11.4	64.3	
50			10.4	65.3	
40			9.8	65.9	

Plotted

E 4690

4230	A 675.7	7.2	668.5 ✓
20		8.6	67.1 ✓
10		6.7	69.0 ✓
4200		6.9	68.8 ✓
4192		6.6	69.1 ✓
91		1.0	74.7 ✓ Back
86		1.5	74.2 ✓ "
85		6.1	69.6 ✓
80		4.9	70.8 ✓
74		3.5	72.2 ✓
59		9.7	66.0 ✓
50		3.5	72.2 ✓
40		+0.9	76.6 ✓
	A 684.3		
30		5.8	78.5 ✓
	B, 696.7		
20		9.8	86.9 ✓
10		9.7	87.0 ✓

Plotted ✓

E 4700

4110	B 696.7	3.9	692.8 ✓
20		4.8	91.9 ✓
30		9.8	86.9 ✓
40		11.9	84.8 ✓
	A 684.3		
47		2.1	82.2 ✓
	T 675.7		
57		0.1	75.6 ✓
69		+1.4	77.1 ✓
80		3.4	72.3 ✓
90		4.2	71.5 ✓
91		2.1	73.6 ✓ Back
95		2.0	73.7 ✓ "
96		5.0	70.7 ✓
4200		5.5	70.2 ✓
10		5.1	70.6 ✓
20		4.9	70.8 ✓
30		4.5	71.2 ✓

Plotted ✓

E4700

4235	A 684.3	2.1	82.2	✓
40		1.4	82.9	✓
50		3.3	81.0	✓
60		3.9	80.4	✓
70		5.0	79.3	✓
80		6.3	78.0	✓
90		7.4	76.9	✓
4300		8.5	75.8	✓
10		9.6	74.7	✓
20		10.6	73.7	✓
30		11.4	72.9	✓
40		11.8	72.5	✓
50		7.0	77.3	✓
55		4.4	79.9	✓
64		7.2	77.1	✓
	B. 696.7			
70		10.0	86.7	✓
80		6.6	90.1	✓

Plotted. ✓

E4710

4385	B. 696.7	3.3	693.4	✓
75		6.4	90.3	✓
	A 684.3			
71		6.0	78.3	✓
60		3.8	80.5	✓
50		10.6	73.7	✓
40		10.9	73.4	✓
30		10.7	73.6	✓
20		9.9	74.4	✓
10		9.1	75.2	✓
4300		8.2	76.1	✓
4290		7.1	77.2	✓
80		5.9	78.4	✓
70		4.9	79.4	✓
60		3.9	80.4	✓
50		2.9	81.4	✓
40		1.6	82.7	✓
30		0.4	83.9	✓

Plotted. ✓

E 4710

		B.			
4220		696.7	10.5	686.2	✓
10			10.3	86.4	✓
		A			
		684.3			
4196			7.1	77.2	✓
83			5.4	78.9	✓
		B			
		696.68			
73			9.2	87.5	✓
53			12.2	84.5	✓
			0.13	696.55	✓
		New T M.I.			
	1081	707.36 ✓			
37			12.7	694.7	✓
30			12.0	95.4	✓
20			10.8	96.6	✓
10			9.8	97.6	✓

Plotted ✓

E 4720

4110			4.9	702.5	✓
20			4.6	702.8	✓
30			5.3	702.1	✓
40			9.1	698.3	✓

E 4720

		T			
4150		707.4	12.4	695.0	✓
60			12.6	694.8	✓
70			11.5	695.9	✓
		B.			
		696.7			
80			4.0	692.7	✓
90			4.2	92.5	✓
4200			7.1	89.6	✓
10			9.1	87.6	✓
20			11.1	85.6	✓
30			12.5	84.2	✓
		A			
		684.3			
40			1.3	83.0	✓
50			2.8	81.5	✓
60			3.8	80.5	✓
70			4.5	79.8	✓
80			5.3	79.0	✓
90			6.8	77.5	✓
4300			8.0	76.3	✓
10			8.8	75.5	✓

Plotted ✓

E 4720

4320	A 684.3	9.6	674.7 ✓	
30		10.2	74.1 ✓	
40		10.2	74.1 ✓	
45		10.4	73.9 ✓	
50		7.3	77.0 ✓	
	B. 696.7			
60		13.1	83.6 ✓	
74		11.1	85.6 ✓	
77		2.5	94.2 ✓	
	π 707.4			
90		9.3	698.1 ✓	

Plotted ✓

End Mar 22-1934

Cont. See. F.B. 467-1

all Elev. in this Book ck for plotting E.B.H.

Intersections of castings
with 7+40

East	North
4820	4131.13
4810	4159.04
4800	4186.95
4790	4214.86
4780	4242.77
4770	4270.68
4760	4298.60
4750	4326.50
4740	4354.41
4730	4382.32

0 + 20 W
0 + 25
0 + 30 W
0 + 35
0 + 40 W

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

ROADWAY 14 FEET WIDE. SIDE SLOPES 1½ TO 1.

FOR SINGLE TRACK EMBANKMENT.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	7.0	7.2	7.3	7.5	7.6	7.8	7.9	8.1	8.2	8.4	0
1	8.5	8.7	8.8	9.0	9.1	9.3	9.4	9.6	9.7	9.9	1
2	10.0	10.2	10.3	10.5	10.6	10.8	10.9	11.1	11.2	11.4	2
3	11.5	11.7	11.8	12.0	12.1	12.3	12.4	12.6	12.7	12.9	3
4	13.0	13.2	13.3	13.5	13.6	13.8	13.9	14.1	14.2	14.4	4
5	14.5	14.7	14.8	15.0	15.1	15.3	15.4	15.6	15.7	15.9	5
6	16.0	16.2	16.3	16.5	16.6	16.8	16.9	17.1	17.2	17.4	6
7	17.5	17.7	17.8	18.0	18.1	18.3	18.4	18.6	18.7	18.9	7
8	19.0	19.2	19.3	19.5	19.6	19.8	19.9	20.1	20.2	20.4	8
9	20.5	20.7	20.8	21.0	21.1	21.3	21.4	21.6	21.7	21.9	9
10	22.0	22.2	22.3	22.5	22.6	22.8	22.9	23.1	23.2	23.4	10
11	23.5	23.7	23.8	24.0	24.1	24.3	24.4	24.6	24.7	24.9	11
12	25.0	25.2	25.3	25.5	25.6	25.8	25.9	26.1	26.2	26.4	12
13	26.5	26.7	26.8	27.0	27.1	27.3	27.4	27.6	27.7	27.9	13
14	28.0	28.2	28.3	28.5	28.6	28.8	28.9	29.1	29.2	29.4	14
15	29.5	29.7	29.8	30.0	30.1	30.3	30.4	30.6	30.7	30.9	15
16	31.0	31.2	31.3	31.5	31.6	31.8	31.9	32.1	32.2	32.4	16
17	32.5	32.7	32.8	33.0	33.1	33.3	33.4	33.6	33.7	33.9	17
18	34.0	34.2	34.3	34.5	34.6	34.8	34.9	35.1	35.2	35.4	18
19	35.5	35.7	35.8	36.0	36.1	36.3	36.4	36.6	36.7	36.9	19
20	37.0	37.2	37.3	37.5	37.6	37.8	37.9	38.1	38.2	38.4	20
21	38.5	38.7	38.8	39.0	39.1	39.3	39.4	39.6	39.7	39.9	21
22	40.0	40.2	40.3	40.5	40.6	40.8	40.9	41.1	41.2	41.4	22
23	41.5	41.7	41.8	42.0	42.1	42.3	42.4	42.6	42.7	42.9	23
24	43.0	43.2	43.3	43.5	43.6	43.8	43.9	44.1	44.2	44.4	24
25	44.5	44.7	44.8	45.0	45.1	45.3	45.4	45.6	45.7	45.9	25
26	46.0	46.2	46.3	46.5	46.6	46.8	46.9	47.1	47.2	47.4	26
27	47.5	47.7	47.8	48.0	48.1	48.3	48.4	48.6	48.7	48.9	27
28	49.0	49.2	49.3	49.5	49.6	49.8	49.9	50.1	50.2	50.4	28
29	50.5	50.7	50.8	51.0	51.1	51.3	51.4	51.6	51.7	51.9	29
30	52.0	52.2	52.3	52.5	52.6	52.8	52.9	53.1	53.2	53.4	30
31	53.5	53.7	53.8	54.0	54.1	54.3	54.4	54.6	54.7	54.9	31
32	55.0	55.2	55.3	55.5	55.6	55.8	55.9	56.1	56.2	56.4	32
33	56.5	56.7	56.8	57.0	57.1	57.3	57.4	57.6	57.7	57.9	33
34	58.0	58.2	58.3	58.5	58.6	58.8	58.9	59.1	59.2	59.4	34
35	59.5	59.7	59.8	60.0	60.1	60.3	60.4	60.6	60.7	60.9	35
36	61.0	61.2	61.3	61.5	61.6	61.8	61.9	62.1	62.2	62.4	36

Calculated by Julien A. Hall, M. Am. Soc. C. E.

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Buy American