

City Sewer's

Levels.

15<sup>th</sup> ST.

FIELD NOTES.

15.24.

2

F.B. 696

696

Showing the difference of latitude and departure in running 80 chains at any course from 1 to 60 minutes.

Minutes.	Lks.	Minutes.	Lks.	Minutes.	Lks.
1	2 $\frac{1}{2}$	21	49	41	95 $\frac{1}{2}$
2	4 $\frac{1}{2}$	22	51 $\frac{1}{2}$	42	98
3	7	23	53 $\frac{1}{2}$	43	100 $\frac{1}{2}$
4	9 $\frac{1}{2}$	24	56	44	102 $\frac{1}{2}$
5	11 $\frac{1}{2}$	25	58 $\frac{1}{2}$	45	105
6	14	26	60 $\frac{1}{2}$	46	107 $\frac{1}{2}$
7	16 $\frac{1}{2}$	27	63	47	109 $\frac{1}{2}$
8	18 $\frac{1}{2}$	28	65 $\frac{1}{2}$	48	112
9	21	29	67 $\frac{1}{2}$	49	114 $\frac{1}{2}$
10	23 $\frac{1}{2}$	30	70	50	116 $\frac{1}{2}$
11	25 $\frac{1}{2}$	31	72 $\frac{1}{2}$	51	119
12	28	32	74 $\frac{1}{2}$	52	121 $\frac{1}{2}$
13	30 $\frac{1}{2}$	33	77	53	123 $\frac{1}{2}$
14	32 $\frac{1}{2}$	34	79 $\frac{1}{2}$	54	126
15	35	35	81 $\frac{1}{2}$	55	128 $\frac{1}{2}$
16	37 $\frac{1}{2}$	36	84	56	130 $\frac{1}{2}$
17	39 $\frac{1}{2}$	37	86 $\frac{1}{2}$	57	133
18	42	38	88 $\frac{1}{2}$	58	135 $\frac{1}{2}$
19	44 $\frac{1}{2}$	39	91	59	137 $\frac{1}{2}$
20	46 $\frac{1}{2}$	40	93 $\frac{1}{2}$	60	140

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Table for Running on Slopes.

In the following table the first column shows the angle, the second, the number of links to be added to a chain on the slopes, to make one chain, horizontal measurement.

Angle.	Cor. in links	Angle.	Cor. in links.	Angle.	Cor. in links.	Angle.	Cor. in links.
°		°		°		°	
4	0-24	11	1-88	18	5-14	25	10-54
5	0-38	12	2-24	19	5-76	26	11-26
6	0-55	13	2-63	20	6-42	27	12-24
7	0-76	14	3-06	21	7-11	28	13-37
8	0-98	15	3-53	22	7-85	29	14-34
9	1-24	16	4-02	23	8-64	30	15-47
10	1-55	17	4-56	24	9-47	35	22-07

H.C.L. }  
 E. Miller. } August 3<sup>d</sup> 1887

1

$\Delta$	+	HI	-	Elev	B.B.	REMARKS
B.M.	6.52	10.53				
0+50			10.73	0.40		N & 15 S $\frac{1}{4}$
1			9.47	1.06		
1+50			9.17	1.36		
2			7.33	3.20		
2+50			7.87	2.66		MI & 15 S $\frac{1}{4}$
3			7.48	3.05		
3+50			7.37	3.16		
4			6.55	3.98		
4+50			5.67	4.86		II & 15 S $\frac{1}{4}$
5			4.97	5.56		
5+50			3.84	6.69		
6			2.75	7.78		
6+50			1.75	8.78		
7			0.84	9.69		
T.P.			0.60	9.93		
T.P.	9.77	19.70				
7+50			8.26	11.44		
8			5.53	14.17		
1			4.85	14.85		
1+50			4.93	14.87		

H.C.L. }  
 F. Miller. } August 3<sup>d</sup> 1887

Δ	+	HI	-	Elev	B.B.	REMARKS
2		19.70	4.86	14.84		
2+50			3.04	16.66		
3			3.30	16.40		
3+50			2.15	17.55		
4			3.10	16.60		
4+50			1.46	18.24		K & 155/5.
5			1.73	17.97		
B.M.			4.18	15.52	16.52	
I.P.	7.07	22.59				
5+50			4.76	17.83		
6			3.00	19.59		
6+50			1.65	20.94		
7			1.83	20.76		
7+50			3.46	19.13		J & 155/5.
8			4.15	18.44		
8+50			4.43	18.16		
B.M.			3.56	19.03	19.03	
I.P.	5.95	24.98				
9			6.17	18.81		
9+50			5.18	19.80		
10			4.84	20.14		

H.C.I. } ANGLE H R E R  
 F. Miller. } August 3<sup>rd</sup> 1887

3

Δ	+	H.I.	-	Elev.	BB.	REMARKS.
10+50		2496	4.25	2073		
11			3.52	2146		
11+50			2.86	2212		
B.M.			2.05	2293	2293	
I.P.	6.63	2956				II & II 5 5/16
12			6.87	2269		
12+50			6.38	2318		
13.			6.10	2346		
13+50			5.23	2433		
14			4.96	2460		
14+50			4.55	2501		
15			3.85	2571		
15+30			3.54	2602		
I.P.			0.05	2951		
I.P.	5.64	35.15				III & III 5 5/16
15+50			5.67	2948		
16			4.26	3089		
16+50			5.17	2998		
16+70			7.66	2749		
17			7.51	2764		
17+50			7.10	2805		

H.C.L. A. G. H. R. E. R.  
 F. Miller. } August 3<sup>d</sup> 1887.

Δ	+	H.I.	—	Elev.	B.B.	REMARKS.
18		3515	6.75	28.40		
18+50			6.12	29.03		
19			5.20	29.95		
I.P.	556	3551				
19+50			5.31	30.20		
20			5.93	29.58		
20+50			5.74	29.77		
21			6.26	29.25		
21+50			4.56	30.95		
22			2.45	33.16		
22+50			0.60	34.91		
23			1.43	34.08		
23+50			2.10	33.41		
I.P.	796	4337				
B.M.			2.73	40.64	40.64	
24			9.52	33.85		
24+50			11.10	33.27		
25			9.90	33.47		
25+50			8.00	35.37		
26			7.77	35.60		
26+50			8.00	35.37		

11 & 15 5/15.



Bed of Creek. m.

11 & 15 5/15.

H.C.I. }  
 F. Miller. } August 4/87.

Δ	+	H.I.	-	Elev.	B.B.	REMARKS.	
27		4337	5.80	37.57		 Outlet Brook	E. & 15 S/4.
27+50			5.30	38.07			
28			5.48	37.89			
T.P.	12.26	50.15					
28+50			11.65	38.50			
29			11.55	38.60			
29+50			9.74	40.41			
29+80			7.55	42.60			
30			4.40	45.75			
T.P.			0.74	49.41			
T.P.	11.64	61.05				 Outlet Brook	D & 15 S/4.
T.P.			0.64	60.41			
T.P.	9.24	69.65					
30+50			11.85	57.80			
31			10.77	58.88			
31+50			8.55	61.10			
32			6.75	62.90			
32+50			4.50	65.15			
33			0.52	69.13			
T.P.	12.16	81.29					
33+50			9.15	72.14			

H.C.I. }  
 E. Miller. } August 4<sup>th</sup>, 1887

6

Δ	+	HI	—	Elev. BB.
34		81.29	742	73.87
34+50			5.00	76.24
B.M.			3.58	77.71
I.P.	11.46	89.17		77.71
35			8.87	80.30
35+50			4.40	84.77
36			1.07	88.10
I.P.	12.32	105.42		
36+50			9.22	91.20
37			4.93	95.49
37+50			4.90	95.52
38			5.88	94.54
38+50			5.93	94.49
39			7.83	92.59
39+50			7.90	92.52
40			10.69	99.73
40+50			10.02	90.40
41			11.43	88.99
41+50			11.79	88.63
42			12.61	87.81
42+50			11.63	88.79
I.P.	13.10.11	104.65	105.78	105.78
B.M.		53		

REMARKS.

C & 15 5/16

B & 15 5/16

A & 15 5/16

End





15<sup>th</sup> St N of J

Sta	+	HT	-	Elev	
Bm	7.84	19.07		11.23	
1			5.13	13.94	
+25			4.90	14.17	
+50			4.28	14.79	
+75			3.14	15.93	
2			2.47	16.60	
+25			2.79	16.28	
+50			3.04	16.03	
+75			3.33	15.74	
3			2.48	16.59	
+25			1.80	17.27	
+50			1.44	17.23	
+65			2.62	16.47	JK ST
+85			1.46	17.61	
4+05			1.27	17.80	K ST
+25			1.33	17.74	
+45			2.06	17.01	NJK
I.P.	8.43	25.59	1.91	17.16	
Bm			6.03	19.56	NC SPIK 154

Wall  
Leeward 15<sup>th</sup> Street N of L.

Sta	+	HI	-	Elev
R.M.	11.88	23.11		11.23
0			10.53	12.58
+10			10.20	12.91
+20			9.59	13.52
+30			9.95	13.16
+40			9.24	13.87
+50			9.37	13.74
+60			9.24	13.87
+67			9.30	13.81
+92				
1+17			8.45	14.66
+42			7.31	15.80
+67			6.52	16.59
+92			6.94	16.17
2+17			7.21	15.90
+42			7.50	15.61
+67			6.52	16.59
T.P.	6.98	23.85	6.24	16.87
+92			6.57	17.28
3+17			6.63	17.22
+33			7.68	16.17

(Observed)

S. L. H. Dr

Vance  
Linnard15<sup>th</sup> St N of S St

Sta.	+	Hot 9	-	Elv
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B.M.		23.85	4.29	19.56
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M.L.R.  
E.F.Y.

15<sup>th</sup> N.Y.S.

11

Sta	+	M.D.	-	Elev.
B.700		7.82	19.05	11.23
0			6.33	12.72
+10			6.00	13.05
+20			5.40	13.65
+30			5.76	13.29
+40			5.04	14.01
+50			5.17	13.88
+60			5.05	14.00
+67			5.10	13.95
+92			4.96	14.09
+117			4.25	14.80
+142			3.11	15.94
+67			2.44	16.61
+92			2.74	16.31
2+117			3.01	16.04
+42			3.30	15.75
+67			2.46	16.59
+92			1.77	17.28
3+117			1.81	17.24
+32			2.90	16.15
T.P.	5.44	23.37	1.12	17.93

S. W. Sp. prot.

X Laid

S. Linn. N. St.

W.L.L.  
E.S.Y.

15<sup>th</sup> North of L.

12

Sta	+	St. D.	-	Elev
B.7W			3.80	19.57
B.7W	7.00	26.56		19.56
3+52			8.94	17.62
+72			8.76	17.80
5+92			9.01	17.55
4+12			9.55	17.01
+37			9.30	17.26
+62			9.28	17.28
+87			9.25	17.31
5+12			8.96	17.60
+37			7.44	19.12
+62			6.36	20.20
+87			5.89	20.67
6+12			6.16	20.40
+37			6.41	20.15
+62			7.27	19.29
+87			8.31	18.25
7+12			8.50	18.06
B.W.	5.65	25.21		19.56
+32			7.22	17.99
+52			7.13	18.08

N.W. Spence

K. St.

N. Line K. St.

S. Line J. St.  
N.E. Cor.

J. St.

W.L.L.  
E.S.V.

15<sup>th</sup> North of S.

13

Sta	+	A.D.	-	Elev.
7472		25.21	7.16	18.05
+92			7.07	18.14
8417			7.05	18.16
+42			6.90	18.31
+67			6.27	18.94
+92			5.94	19.27
9417			5.82	19.39
+42			5.12	20.09
+67			4.75	20.46
+92			4.76	20.45
1047			4.23	20.98
+42			3.97	21.24
+67			3.55	21.66
+92			3.38	21.83
11412			3.08	22.13
+32			2.92	22.29
+52			2.47	22.74
+72			2.42	22.79
B.M.	6.06	29.08	2.20	23.01
+97			6.21	22.87
12422			5.96	23.12

N. Line J. St.

S. Line I. St.

I. St.

N. Line J. St.  
S. W. Sp. post.

W.L.L.  
E.F.V.

14

15<sup>th</sup> St North of L.

Sta	+	N.D.	-	Elev.
12+47		29.08	5.21	23.87
+72			5.16	23.92
+97			4.88	24.20
13+22			4.71	24.37
+47			4.24	24.84
+72			4.02	25.08
+97			3.91	25.17
14+22			3.48	25.60
+47			3.43	25.65
+72			1.68	27.40
T.P.	7.58	35.05	1.61	27.47
B.M.	3.01	33.28	4.79	30.26
+97			3.48	29.80
15+22			2.83	30.45
+47			2.82	30.46
+72			4.98	28.30
+97			5.86	27.42
16+22			5.48	27.80
+47			5.37	27.91
+72			5.13	28.15
+97			5.10	28.18

S. Line H. St.

N.W. Sp. to pole.

H. St.

N. Line H. St.



W.S.L.  
9.8.4.

15<sup>th</sup> North of S

Sta	+ H.S.	-	Elev.	
17+22	33.28	4.60	28.68	
+47		4.13	29.15	
+72		3.91	29.37	
+97		3.65	29.63	
18+22		3.43	29.85	
+47		2.88	30.40	
+72		2.63	30.67	
+81			34.42	
T.P.	8.79	39.53	2.54	30.74
19+01		5.06	34.47	
+21		4.88	34.65	
+41			35.21	
+61			35.54	
B.M.	3.16	37.57	5.12	34.41
+86		8.43	29.14	✓
+11		8.70	28.87	✓
+36		8.25	29.32	✓
+61		7.24	30.33	✓
+86		6.87	30.70	✓
21+11		6.46	31.11	✓
+36		6.08	31.49	✓

S. Line G. St.

G. St.

N. Line G. St.  
S. E. Cambridge exp.

W.C.C.  
J.P.H.

16

15<sup>th</sup> St North of L.

Sta	+	HD	-	Color	
21+61		37.57	5.92	31.65	✓
+86			5.31	32.26	✓
22+11			6.72	30.85	✓
+36			7.20	30.37	✓
+61			7.01	30.56	-
+81			6.77	30.80	
T.P.	6.23	37.62	6.18	31.39	
23+01			6.30	31.32	F. St
+21			6.15	31.47	
+41			5.83	31.79	N. Side F. St.
T.P.	8.30	45.52	0.40	37.22	
B.W.	1.77	42.41	4.89	40.63	464
+66			9.77	32.64	✓
+91			10.13	32.28	
24+16			9.54	32.87	
+41			9.34	33.07	
+66			8.82	33.59	
+91			6.74	35.67	
25+16			6.45	35.96	
+41			6.42	35.99	
+66			6.61	35.80	

S. Side F. St.

F. St

N. Side F. St.

15<sup>th</sup> F. St.

W.L.L.  
J.F.H.

15<sup>th</sup> North of L.

17

Sta	+	49.	-	Elev.
25791		42.41	7.26	35.15
26416			7.42	34.99
+41			6.23	36.18
B.W.			1.58	40.83

Line E. Lt.



16<sup>th</sup> St - S of 2

Sta	+	Mag.	-	Elm
B.M.	0.53	25.70		25.17
0			4.12	21.58
+10			3.89	21.81
+20			3.79	21.91
+30			3.64	22.06
+40			3.65	22.05
+50			3.58	22.12
+60			3.85	21.86
B.M.	0.58	25.75		25.17
+75			4.36	21.39
1			4.82	20.93
+25			5.34	20.41
+50			5.89	19.86
+75			6.39	19.36
2			6.82	18.93
+25			7.27	18.48
+50			7.71	18.04
+75			8.27	17.48
3			8.60	17.15
+25			9.01	16.74
+40			9.85	16.40

16<sup>th</sup> St NB Side Post16<sup>th</sup> St NB Side Post on Dec 30/87

1-2-188

16<sup>th</sup> St & of J. 20

Sta	+	Hi.	-	Plan
7.33	21.90	25.75	11.38	14.37
IP		21.70	6.62	15.08
T.P.	456	19.58		15.08
			4.80	14.78
			5.07	14.51
<hr/>				
B.M.	9.31	31.68		22.37
T.P.	2.30	23.40	10.58	21.10
<hr/>				
B.M.	6.76	29.13		22.37
B.M.T.P.	0.21	22.77	6.57	22.56
	0			
B.M.	7.22	21.59		14.37
IP B.M.	2.43	19.45	4.57	17.02

20

16<sup>th</sup> & 9<sup>th</sup> St. N. W. corner

19.45	19.58
15.08	15.08
4.37	4.50
15.7	

23.40  
17.80  
5.60

15<sup>th</sup> St

in mouth of Tunnel 6727

19.45  
15.26  
4.19

16<sup>th</sup> & M

in mouth of Tunnel

+ 52  
19.45  
15.26  
4.01



M St

	+	Hgt.	-	Elv
Bm	7.13	21.50		14.37
+28			4.88	16.62
+38			4.87	16.63
+48			4.99	16.51
+58			5.13	16.35
+68			5.32	16.18
+78			5.44	16.06
+88			5.28	16.22
+98			4.95	16.55
+108			3.46	18.04
+118			2.42	19.08
+128			1.84	19.66
+138			0.88	20.82



M St. to 17<sup>th</sup> Dec 19/89

Sta	P	Hs.	-	Elev
		11.95	26.32	14.37
4+40			6.50	20.82
+65			1.08	23.24
		0.28	34.89	34.61
+65			9.70	25.19
+90			6.27	28.62
5+15			4.66	30.23
+40			3.48	31.41
+65			2.26	32.63

Curve M to 17 Dec 79

Sta	+	Hs'	-	Reln
+45				
+65				
6791				
+70				
+72				
+65	36.67	41.03	32.64	
+70	35.11	37.78	32.89	
+81		3.65	33.02	
+92		3.43	33.24	
6+03		3.33	33.34	
+14		3.02	33.65	
+25		3.11	33.56	
+36		3.16	33.51	
+47		3.12	33.55	
+58		3.42	33.25	
+69		3.53	33.15	
+80		3.70	32.97	
6P91	36.67	3.87	32.80	

Mendertall

Summit 17<sup>th</sup> St - Dec 19 187

25

Sta + Hgt. — Elev

Rm	206	36.67	34.61
+94		4.08	32.59
+19		4.58	32.14
+44		4.87	31.80
+69		5.22	31.45
+94		5.37	31.30
+19		5.39	31.28
+44		5.39	31.28
+69		5.81	30.86
+94		6.93	29.74
+19		7.74	28.93
+24			
+			

Rm	0.34	34.95	34.61
+24		6.15	28.80
+34		6.39	28.56
+44		6.80	28.15
+54		7.56	27.39
+64		8.19	26.76
+74		9.66	25.30

Dec 22/07 Rm 17<sup>th</sup> m. env

Mendenhall

Toward 17<sup>th</sup> to N Curve Dec 22/87

Sta	+ H.I.	- Elev
9+94	34.95	10.55 24.40
+94		11.58 23.37
10+04		12.04 22.91
I.P.	4.19 28.53	10.61 24.94
+14		6.14 22.39
+24		6.14 22.39
+34		6.41 22.12
+36		6.48 22.05
B.M.	7.15 29.52	6.16 22.37
+51		7.41 22.11
+76		7.15 22.37
11+01		6.38 23.14
+26		5.80 23.72
+51		5.32 24.20
+76		4.96 24.56
12+01		4.63 24.89
+21		3.94 25.58
+41		3.52 26.00
+61		3.28 26.24
+81		3.03 26.49

7.46

88 17<sup>th</sup> to N Spike in Post Dec 26/887

36

WZ 14<sup>th</sup> 81

18<sup>th</sup> 81

CJ 18 81

Mindenhall

Linnard N St Pk 17<sup>th</sup> Dec 26/87

27

Sta	+	Ht.	-	Ele
13+16		29.52	3.13	26.39
+ 31			3.18	26.34
+ 56			3.24	26.28
+ 81			3.25	26.27
14+06			2.81	26.71
+ 31			2.10	27.42
+ 56			1.88	27.64
+ 81			1.64	27.88
15+01			1.52	28.10
+ 21			1.54	27.98
+ 41			1.14	28.38
+ 61			0.66	28.86
I.P.	7.71	36.63	0.60	28.92
+ 86			6.69	29.94
16+11			5.60	31.03
+ 36			9.58	27.05
F.P.	5.30	34.22		28.92
Bm.			1.31	32.91

32.91 170 34.61  
28.00  
WZ 19<sup>th</sup> 81 - Linnard 28.5 - 0.61

19 81

E 19<sup>th</sup> 81

19<sup>th</sup> as m N E man Plug

Mendenhall

Linn Co N 21 C rd 17 12/28/97

St + Hs - Elev

	10.37	43.28		32.91
18+41				
+ 66			9.45	33.83
+ 91			3.92	39.36
19+16			1.66	41.62
I.P.	8.14	50.80	0.62	42.66
+ 41			8.22	42.38
+ 66			7.86	42.94
9+91			7.80	43.07
20+16			8.52	42.28
+ 52			9.33	41.47
Bm	8.07	55.08	3.73	47.11
21+32			8.72	46.46
+ 57			8.04	47.14
+ 82			7.83	47.35
22+07			7.73	47.45
+ 32			7.69	47.59
+ 57			7.78	47.30
+ 82			8.05	47.13
23+07			7.89	47.29

C 7 20 31

2.83  
 47.11  
 45.86  
 42.00  
 7.96

W 2 21 31 Grade 42.6  
 Between 21 9 26 Sp. K. tel. Rd. school

Mendocino

Toward N St East of 17 1-9-88

29

Sta	+	Hi.	-	Clu
23+32		53.14	7.71	47.47
+52			7.32	47.86
+72			6.82	48.36
+92			6.99	48.19
24+12			7.14	48.04
+37			5.68	49.50
+62			5.48	49.70
+87			5.02	50.16
25+12			4.57	50.61
+37			4.83	50.85
+62			3.98	51.25
+87			4.44	50.74
26+12			4.91	50.27
+37			5.75	49.43
+62			7.48	47.70
+87			7.37	47.81
27+12			7.24	47.94
+37			6.67	48.51
+62			5.94	49.24
+87			6.00	49.18
PM.			6.88	48.30

W 22<sup>nd</sup> St Grand 78.00

22 St

49.96  
47.50  
2.46

E 22<sup>nd</sup> St

P C to 24<sup>th</sup> St

24<sup>th</sup> St

N At across 21 11-14-88

Sta. Elev. - Elev.

2 Bm 2.58 49.69 47.11

20+27 7.34 42.35

+52 8.15 41.54

+72 6.80 42.89

2 +92 6.11 43.58

21+12 5.11 44.58

+32 3.28 46.46



L.P.M.

1-17-88

22 N + 24<sup>th</sup> cum

Sta	+	Sta	-	Plow
-----	---	-----	---	------

P.M.	7.75	56.05		49.30
27+97			6.43	49.62
+97			6.13	49.92
28+11			5.57	50.48
+25			7.26	48.79
+39			4.08	47.97
+53			7.47	48.18
+67			6.98	49.07
+82			6.97	49.08
29+07			6.59	49.46
+32			6.10	49.95
+57			5.78	50.27
+82			5.32	50.73
30+07			4.71	51.34
+32			4.14	51.91
+57			3.77	52.28
+82			3.49	52.56
31+07			3.19	52.86
+32			3.29	52.76
+57			0.72	55.33
+82				

97 2 4 28.17 48.5

L.P.M.

Som

1-19-24

32

N72

24# to N of N

Sta	+	FW.	-	Elev
Bom	10.41	54.71		48.32 48.30
Bom	51.93	64.25	0.39	58.32
31+77			10.37	53.88
+97			7.58	56.67
32+17			5.89	58.36
+87			5.36	58.89
+62			4.99	59.26
+87			4.44	59.81
33+12			3.91	60.34
+37			3.19	61.06
+62			3.74	61.11
+87			2.15	62.10
34+12			2.38	61.87
+37			2.08	62.22
+62			1.46	62.79
+87			1.32	62.93
35+12			2.83	61.42
+34			2.16	62.09
+54			1.56	62.69
+74			0.55	63.70
T.P.	11.46	73.74	1.93	62.32

N72 RR Bridge

24+10 NO cut lot Plug

N 11

N7 M. 11

S72 to

Z 11

1-19-88

10:00

Rain

71.2

24<sup>th</sup>

Mon

+

Mon

-

Elev

Mon	+	Mon	-	Elev
70.7		79.54		64.24
94		11.63		63.15
26+14		9.14		64.74
B.M.	6.93	74.89		67.96
+39		8.77		66.12
+64		7.61		67.28
+89		6.48		68.41
37+14		5.33		69.56
+39		4.10		70.79
+64		3.09		71.80
+89		2.07		72.82
38+14		1.10		73.79
T.P.	9.54	83.53	0.90	78.99
+39		8.69		74.84
+64		7.62		75.91
+89		6.85		76.68
39+14		5.89		77.64
B.M.		2.48		81.05
B.V.M.	8.46	89.52		
+34		11.75		77.77
+54		10.72		78.80

24+2 N.B. cut

N.D. sk

S.L. sk

Cap water table S.W.

K.A.

E. F. V.  
W. C. L.

24<sup>th</sup> N. W.

34

Sta	+ H.D.	- Elev.
39+74	89.52	9.91 79.61
+94		9.83 79.69
40+19		8.39 81.13
+44		7.06 82.46
+69		6.79 82.73
+94		6.47 83.05
41+19		6.40 83.12
+44		6.08 83.44
+69		4.66 84.86
+94		3.87 85.65
42+19		3.13 86.39
+44		1.14 88.38
T.P. 11.43	99.89	1.06 88.46
+69		10.67 89.22
+94		8.38 91.51
43+14		6.98 92.91
+34		5.53 94.36
+54		4.26 95.63
+74		2.53 97.36
T.P. 7.90	106.45	1.34 98.55
B. 70.		3.89 102.56

N. L. H. Lt.

S. L. H. Lt.

J. Lt.

N. L. H. Lt.

N. C. Sp. post.

E. 7<sup>th</sup>  
W.C.S. 24<sup>th</sup> Street North of West

Sta	+	Hof <sup>g</sup>	-	Elev.
B.M.	6.39	108.95		102.56
43+99			9.88	98.07
44+24			7.36	101.59
+49			5.21	103.74
+74			3.68	105.27
+99			2.71	106.24
45+24			1.84	107.11
+49			1.25	107.70
+74			0.27	108.68
IP	6.79	115.31	0.43	108.52
+99			6.11	109.20
46+24			5.92	109.39
+49			5.24	110.07
+74			5.17	110.14
+94			4.63	110.68
47+14			4.57	110.74
+34			4.06	111.25
+54			3.74	111.57
B.M.			3.74	111.57
B.M.	11.77	123.35		111.58
+79			11.37	111.98

S. Line I et.

I et.

N. Line I et.

N.W. Corner

W.L.L.  
E.S.Y.

24<sup>th</sup> St North of N.

36

Sta.	+	H.S.	-	Elev.
48+04		123.35	10.95	112.40
+29			10.33	113.02
+54			9.74	113.61
+79			9.05	114.30
49+04			8.04	115.31
+29			6.66	116.69
+54			5.65	117.70
+79			5.09	118.26
50+04			3.10	120.25
+29			1.21	122.14
T.P.	6.27	129.07	0.55	122.80
+54			5.39	123.68
+62			4.60	124.47
+87			3.57	125.50
51+12			2.23	126.84
+37			1.48	127.59
+62			0.79	128.28
B.W.	11.68	137.85	2.89	126.18
+87			7.71	130.14
52+12			6.27	131.58
+37			5.34	132.51

S. Line H. St.

H. St

N. L. H. St.

N. W. Sp. top of

W. L. L.  
E. F. Y.2.44<sup>th</sup> St North of W.

Sta	+	Adj.	-	Elev.
52+62		137.85	4.10	133.75
+87			2.65	135.20
53+12			1.67	136.18
+37			0.13	137.72
T. P.	10.24	147.66	0.43	137.42
+62			8.76	138.90
+87			6.93	140.73
54+12			6.55	141.11
+37			5.64	142.02
+62			4.48	143.18
+75			3.44	144.22
B. W.	9.54	155.94	1.25	146.41 146.40
+95			10.37	145.57
55+15			9.30	146.64
+35			8.60	147.34
+55			8.57	147.43
+80			8.84	147.10
56+05			7.34	148.60
+30			6.64	149.30
+55			5.95	149.99
+80			4.66	151.28

S. L. &amp; St.

S. E. Sp. post.

S. St.

N. L. &amp; St.

M.C.L.

E.F.V.

24<sup>th</sup> St North of W.

28

Sta	+ H.d.	-	Elev.
57+05	153.94	4.30	157.64
+30		3.83	152.11
+55		3.37	152.57
+80		2.67	153.27
58+05		2.46	153.48
+30		2.08	153.86
+55		0.79	155.15
T.P.	7.05 161.72	1.27	154.67
B.W.	8.64 167.06	3.32	158.40 158.42
+75		1.10	155.96
+95		10.22	156.84
59+15		9.76	157.30
+35		9.91	157.15
+60		9.18	157.88
+85		7.45	159.61
60+10		6.13	160.93
+35		5.21	161.85
+60		4.40	162.66
+85		3.33	163.73
61+10		2.09	164.97
+35		0.57	166.49

S.L. F. St.

M. C. Sp. post.

F. St.

N. Line F. St.



N.L.E.  
6.0.07

34<sup>th</sup> North of C.K. St.

Sta	+	Adj	-	Elev.
T.P.		167.06	0.48	166.58
61+60	7.90	174.48	6.67	167.81
+85			4.82	169.66
62+10			3.80	170.68
+35			3.59	170.89
+55			3.23	171.25
+75			2.59	171.89
+95			2.28	172.30
63+15			2.06	172.42
B.M.	7.65	179.97	2.16	172.32
+40			7.43	172.54
+65			7.34	172.63
+90			7.40	172.57
64+15			10.44	169.53
+40			11.25	168.72
+65			8.63	171.34
+90			6.14	173.83
65+15			5.21	174.76
+40			4.86	175.11
+65			4.73	175.24
+90			4.52	175.45

S.L.E. St.

E. St.

N.L.E. St.

W.L.L.  
 J.F.H. 24<sup>th</sup> North of L.

Sta	+	A.D.	-	Elev.
66415		179.97	3.91	176.06
+35			4.32	175.65
+55			4.14	175.83
+75			3.91	176.06
+95			3.68	176.29
T.P.	1.99	170.74	11.22	168.75
B.M.	11.78	176.77	5.75	164.99
T.P.	6.95	182.15	1.57	175.20
667+20			5.18	176.97
+45			4.76	177.39
+70			4.15	178.00
+95			3.96	178.19
68+20			3.35	178.80
+45			3.26	178.89
+70			2.97	179.18
+95			2.62	179.53
69+20			2.32	179.83
+45			1.65	180.30
+70			1.32	180.83
+95			1.08	181.07
B.M.	5.25	185.07	2.34	179.81

S. Line D. St.

Dist

N. Line E. St.

23<sup>rd</sup> + D.

S. Line E. St. (Check back)

24<sup>th</sup> North of N.

Sta	+ H.D.	-	Elev.
70+15	185.07	3.91	181.16
+35		3.67	181.40
+55		3.80	181.27
+75		3.63	181.44
71		3.48	181.59
+25		3.73	181.34
+50		3.55	181.52
+75		3.36	181.71
72		3.73	181.34
+25		3.83	181.24
+50		3.17	181.90
+75		2.51	182.56
73		2.22	182.85
+25		2.32	182.75
+50		2.22	182.85
T.P.	5.48 188.48	2.07	183.00
B.M.		2.38	186.10

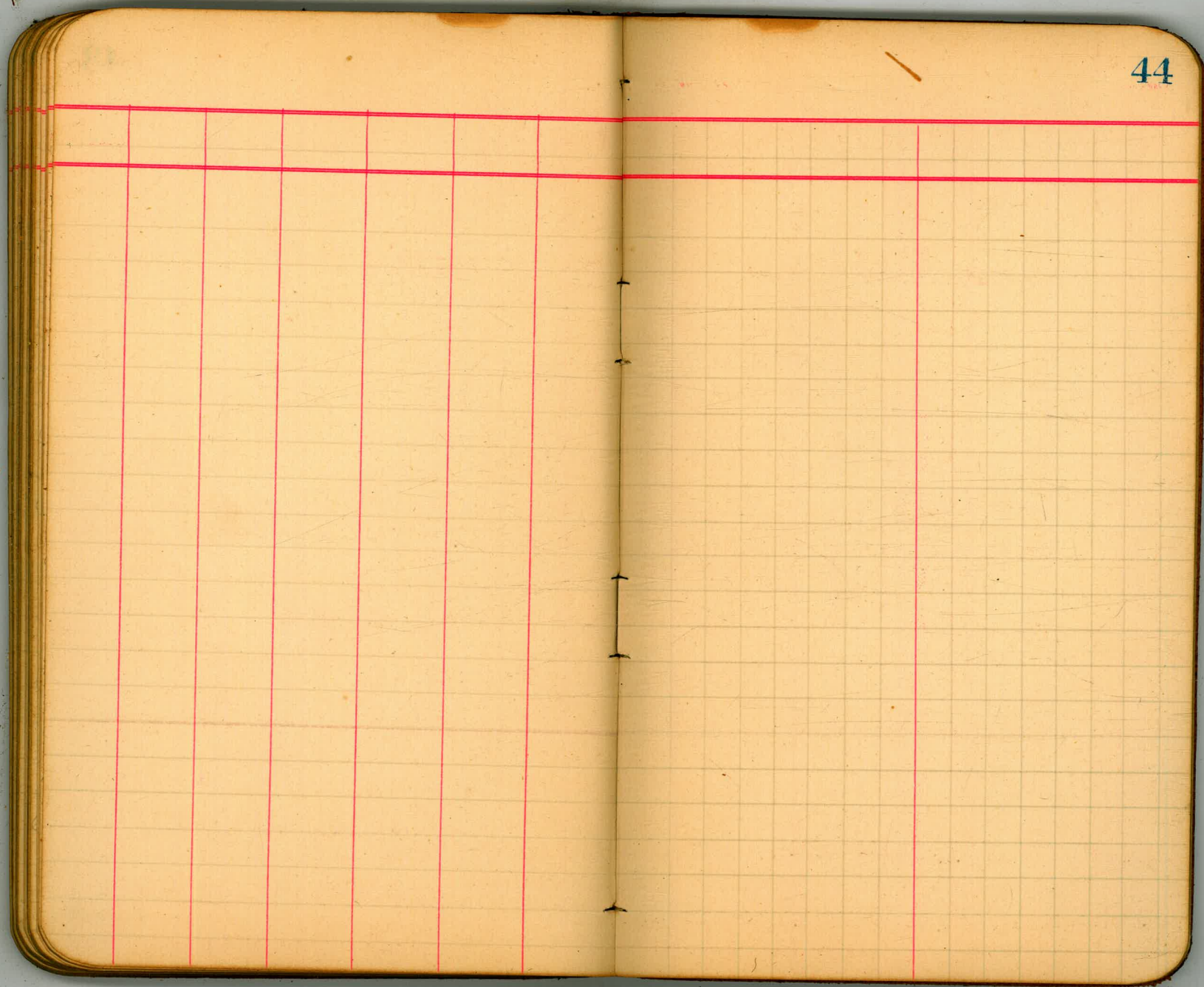
C. St.

H. Lindert

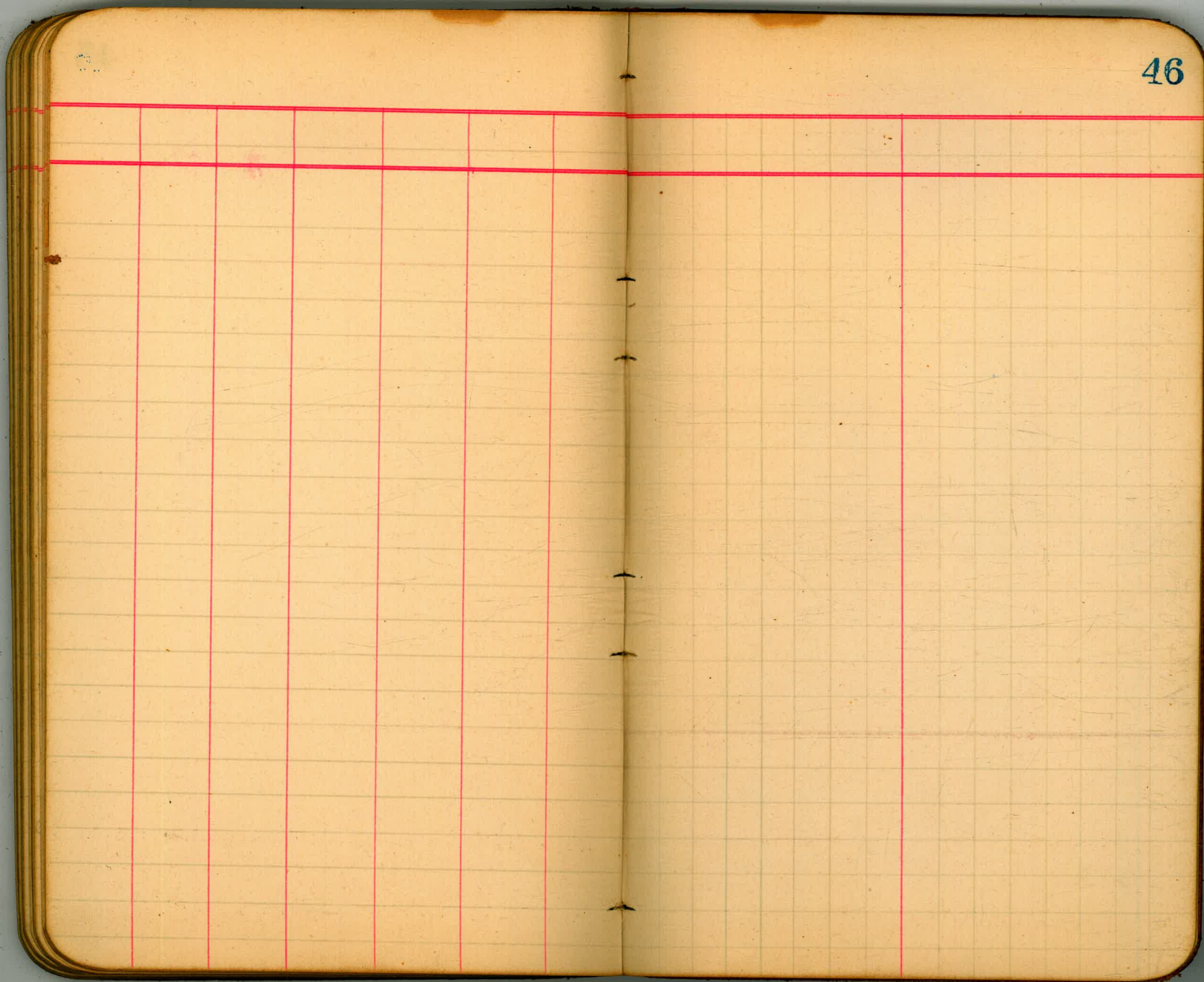
S. E. Cropley

The image shows an open notebook with two blank pages. The pages are cream-colored and feature a light blue grid pattern. The left page has a vertical red margin line on the left side. The right page has a vertical red margin line on the right side. The number '42' is printed in the top right corner of the right page. The notebook is bound in the center, and the pages are slightly aged.

The image shows an open notebook with two pages. The left page is ruled with a grid of 10 columns and 20 rows. The right page is ruled with a grid of 15 columns and 20 rows. Both pages have a red horizontal line near the top. The notebook is bound in the center with four visible stitches. The pages are yellowed with age and show some minor stains.



The image shows an open notebook with two pages. The pages are cream-colored and feature light blue horizontal ruling. The left page is divided into columns by vertical red lines, with two prominent lines on the left side and several fainter ones extending towards the center. The right page has a single vertical red line on the left side, creating a narrow margin. The notebook is bound in the center with visible stitching. The number '45' is printed in the top right corner of the right page.





1/29

91.17  
A.H.

6 hook Levels 24th St

Stn	+	HD	-	Clev	BB
Bm	11.90	59.01		47.11	
#	11.45	68.91	1.55	57.46	
#	7.26	75.15	1.02	67.89	
Bm			7.19	67.96	
#	11.07	85.52	0.70	74.45	
#	7.24	92.23	0.735	84.745	
Bm			10.96	81.065	
#	11.315	102.56	0.74	91.245	
Bm	check		11.69	90.85	90.80
Bm#	Set at Instrument		Height	102.56	
#	9.91	112.47		102.56	
Bm#	8.19	119.77	0.89	111.58	
#	11.50	130.54	0.73	119.04	
Bm			7.37	126.17	
#	11.50	141.20	0.74	129.76	
#	11.57	152.09	0.75	140.51	
Bm	check		5.69	146.40	146.43
#	9.36	160.47	0.97	157.11	
Bm	check		2.05	158.72	158.92

47

22nd St siphon tel. School house.

L.S. 24th St. Siphon post 50' W loc.

24th St S.W. Loc. in water table.

Siphon in post 24th J  
NO siphon in post J & 24

S.W. Siphon in post J &amp; 24

H.S. 24th St. Siphon tel.

S.W. Siphon post  
113.04  
113.04  
113.04

The image shows an open notebook with two pages. The pages are cream-colored and feature light blue horizontal ruling. The left page is divided into columns by vertical red lines, with approximately 10 columns of varying widths. The right page has a single vertical red line on the left side, creating a narrow column. The notebook is bound in the center with visible stitching. The page number '48' is printed in the top right corner of the right page.

16<sup>th</sup> 31 - Extra. Pl...

Sta	+	Dist.	-	Elev
Bm		8.59	22.96	14.37
2				
+25				4.55 18.41
+50				5.18 17.78
+75				5.56 17.40
3				5.80 17.16
+25				6.16 16.80
+40				6.30 16.66
+50				6.38 16.63
+60				6.44 16.02
+75				6.63 16.39
+80				6.77 16.19

M. H. Tinsell

Sta	+	HK	-	Elev
Bm	7.47	21.84		14.37 164 m
Bm		4.83	17.01	in month of June

in month of June

*47 11*  
*35 19*  
*30 30*

TRAVERSE TABLE FOR TRANSIT BOOK,  
From 1° to 90° for a distance of 100.

*2*  
*20*  
*20*

Degrees.	DEGREES.		¼ DEGREE.		½ DEGREE.		¾ DEGREE.		Degrees.
	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	
0			100.00	0.44	100.00	0.87	99.99	1.31	89
1	99.98	1.75	99.98	2.18	99.97	2.62	99.95	3.05	87
2	99.94	3.49	99.92	3.93	99.91	4.36	99.88	4.80	85
3	99.86	5.23	99.84	5.67	99.81	6.10	99.79	6.54	83
4	99.76	6.98	99.73	7.41	99.69	7.85	99.66	8.28	81
5	99.62	8.72	99.58	9.15	99.54	9.58	99.50	10.02	79
6	99.45	10.45	99.41	10.89	99.36	11.32	99.31	11.75	77
7	99.25	12.19	99.20	12.62	99.14	13.05	99.09	13.49	75
8	99.03	13.92	98.97	14.35	98.90	14.78	98.84	15.21	73
9	98.77	15.64	98.70	16.07	98.63	16.50	98.56	16.93	71
10	98.48	17.36	98.40	17.79	98.33	18.22	98.25	18.65	69
11	98.16	19.08	98.08	19.51	97.99	19.94	97.90	20.36	67
12	97.81	20.79	97.72	21.22	97.63	21.64	97.53	22.07	65
13	97.44	22.50	97.34	22.92	97.24	23.34	97.13	23.77	63
14	97.03	24.19	96.92	24.62	96.81	25.04	96.70	25.46	61
15	96.59	25.88	96.48	26.30	96.36	26.72	96.25	27.14	59
16	96.13	27.56	96.00	27.98	95.88	28.40	95.76	28.82	57
17	95.63	29.24	95.50	29.65	95.37	30.07	95.24	30.49	55
18	95.11	30.90	94.97	31.32	94.83	31.73	94.69	32.14	53
19	94.55	32.56	94.41	32.97	94.26	33.38	94.12	33.79	51
20	93.97	34.20	93.82	34.61	93.67	35.02	93.51	35.43	49
21	93.36	35.84	93.20	36.24	93.04	36.65	92.88	37.06	47
22	92.72	37.46	92.55	37.86	92.39	38.27	92.22	38.67	45
23	92.05	39.07	91.88	39.47	91.71	39.87	91.53	40.27	43
24	91.35	40.67	91.18	41.07	91.00	41.47	90.81	41.87	41
25	90.63	42.26	90.45	42.66	90.26	43.05	90.07	43.44	39
26	89.88	43.84	89.69	44.23	89.49	44.62	89.30	45.01	37
27	89.10	45.40	88.90	45.79	88.70	46.17	88.50	46.56	35
28	88.29	46.95	88.09	47.33	87.88	47.72	87.67	48.10	33
29	87.46	48.48	87.25	48.86	87.04	49.24	86.82	49.62	31
30	86.60	50.00	86.38	50.38	86.16	50.75	85.94	51.13	29
31	85.72	51.50	85.49	51.88	85.26	52.25	85.04	52.62	27
32	84.80	52.99	84.57	53.36	84.34	53.73	84.10	54.10	25
33	83.87	54.46	83.63	54.83	83.39	55.19	83.15	55.56	23
34	82.90	55.92	82.66	56.28	82.41	56.64	82.16	57.00	21
35	81.92	57.36	81.66	57.71	81.41	58.07	81.16	58.42	19
36	80.90	58.78	80.64	59.13	80.39	59.48	80.13	59.83	17
37	79.86	60.18	79.60	60.53	79.34	60.88	79.07	61.22	15
38	78.80	61.57	78.53	61.91	78.26	62.25	77.99	62.59	13
39	77.71	62.93	77.44	63.27	77.16	63.61	76.88	63.94	11
40	76.60	64.28	76.32	64.61	76.04	64.94	75.76	65.28	9
41	75.47	65.61	75.18	65.93	74.90	66.26	74.61	66.59	7
42	74.31	66.91	74.02	67.24	73.73	67.56	73.43	67.88	5
43	73.14	68.20	72.84	68.52	72.54	68.84	72.24	69.15	3
44	71.93	69.47	71.63	69.78	71.33	70.09	71.02	70.40	1
45	70.71	70.71							
Degrees.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Degrees.
	DEGREES.		¼ DEGREE.		½ DEGREE.		¾ DEGREE.		

*125 76*  
*11 30*  
*141.26*  
*140.51*  
*116 7*  
*140.51*  
*11 30*  
*152.56*