

SEWERAGE
8TH St Levels

9

TRANSIT

F.B. 673

673

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	2½	21	49	41	95½
2	4½	22	51½	42	98
3	7	23	53½	43	100½
4	9½	24	56	44	102½
5	11½	25	58½	45	105
6	14	26	60½	46	107½
7	16½	27	63	47	109½
8	18½	28	65½	48	112
9	21	29	67½	49	114½
10	23½	30	70	50	116½
11	25½	31	72½	51	119
12	28	32	74½	52	121½
13	30½	33	77	53	123½
14	32½	34	79½	54	126
15	35	35	81½	55	128½
16	37½	36	84	56	130½
17	39½	37	86½	57	133
18	41½	38	88½	58	135½
19	44	39	91	59	137½
20	46½	40	93½	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.
0		0		0		0	
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

662 } July 13/87
 2.8.11

Δ	+	HI	-	Ellev	BB
BM	4.05	9.42		5.37	5.37
3+40			5.71	3.71	
$\Delta 0$			5.96	3.46	
0+50			4.30	5.12	
$\Delta 1$			3.94	5.48	
1+50			2.40	7.02	
T.P.	6.87	13.89			
$\Delta 2$			7.08	6.81	
2+50			6.38	7.51	
$\Delta 3$			5.96	7.93	
3+40			5.77	8.12	
$\Delta 0$			4.92	8.97	
0+50			4.32	9.57	
$\Delta 1$			3.49	10.40	
1+50			3.00	10.89	
$\Delta 2$			2.27	11.62	
2+50			1.52	11.37	
$\Delta 3$			0.57	13.32	
T.P.	10.45	23.77			
3+40			9.64	14.73	
$\Delta 0$			9.77	14.00	

MI & 8 ST.

II & 8 ST.

IK & 8 ST.

H. L. }
 S. C. M. } July 13/87

2

Δ	+	H.I.	-	Elev	BB
150		2377			
0+50			8.72	15.05	
$\Delta 1$			7.90	15.87	
1+50			7.11	16.66	
$\Delta 2$			6.53	17.24	
2+50			5.63	18.14	
$\Delta 3$			5.04	18.73	
BM			5.42	18.35	1835
3+40			4.80	18.97	
$\Delta 0$			4.36	19.41	
0+50			3.95	19.82	
$\Delta 1$			3.27	20.50	
1+50			2.39	21.38	
$\Delta 2$			1.64	22.13	
2+50			1.10	22.67	
IF	7.74	30.41			
$\Delta 3$			7.00	23.41	
BM			7.64	22.77	2275
3+40			7.13	23.28	
$\Delta 0$			6.43	23.98	
0+40			6.13	24.28	

J & S ST

I & S ST

H.B. L. } July 13/87
S.C.M.

Δ	+	H.I.	-	Elev. BB
		30.41		
$\Delta 1$			5.26	25.15
1+50			4.24	26.17
$\Delta 2$			3.25	27.16
2+50			2.42	27.99
$\Delta 3$			2.05	28.36
3+50			0.70	29.71
I.P.	7.40	37.11		
$\Delta 0$			7.06	29.95
B.M.			4.80	32.31 32.27
0+50			6.35	30.76
$\Delta 1$			5.35	31.76
1+50			4.84	32.27
$\Delta 2$			3.74	33.37
2+50			2.25	34.86
$\Delta 3$			0.68	36.43
I.P.	10.76	47.19		
3+40			9.36	37.83
$\Delta 0$			8.04	39.15
0+50			6.52	40.67
$\Delta 1$			5.54	41.65
1+50			4.73	42.46

H & S ST

G & S ST

H.C.L.
D.B.M. & July 13/87

4

Δ	+	F.I.	—	F.lev	B.P.
$\Delta 2$		47.19	4.57	42.60	
2+50			5.35	41.84	
$\Delta 3$			5.00	42.19	
3+40					
B.M.			4.65	42.54	42.50
$\Delta 0$			3.46	43.73	
T.P.	787	56.60			
0+50			6.78	44.82	
$\Delta 1$			5.91	45.69	
1+50			5.32	46.28	
$\Delta 2$			4.91	46.69	
2+50			4.37	47.23	
$\Delta 3$			3.46	48.14	
T.P.	805	56.19			
3+40			6.95	49.24	
0			6.18	50.01	
0+50			5.55	50.64	
$\Delta 1$			5.05	51.14	
1+50			4.61	51.58	
$\Delta 2$			2.83	53.36	
2+50			2.20	53.99	

~~T.P.~~ & S.E.T. was grading No plug.

~~T.P.~~ & S.E.T.

H62
S. S. M. S. July 13/07

5

Δ	+	HI	-	Elev.	BB
$\Delta 3$		5619	0.95	53.24	
T.P.	728	6252			
3+40			5.87	56.65	
$\Delta 0$			6.18	56.34	
B.M.			5.73	56.79	5677
0+50			5.43	57.09	
$\Delta 1$			4.15	58.37	
1+50			3.14	59.38	
$\Delta 2$			1.85	60.67	
2+50			0.47	62.05	
T.P.	331	6536			
$\Delta 3$			2.05	63.31	
3+40			2.58	62.78	
$\Delta 0$			3.60	61.76	
0+50			4.95	60.41	
$\Delta 1$			5.16	60.20	
1+50			4.90	60.46	
$\Delta 2$			4.67	60.69	
2+50			4.38	60.98	
$\Delta 3$			3.42	61.94	
B.M.			3.70	61.66	6166

~~III~~ 4 8 57.

C 4 8 57.

H.L. } July 13/87
D.M. }

6

Δ	+	HI	-	Elev	BB
		67.66			
I.P.	596	67.62			
3+40			5.27	62.35	
$\Delta 0$			5.34	62.28	
0+50			5.50	62.62	
$\Delta 1$			6.13	61.49	
1+5			10.13	57.49	
1+50			2.71	64.91	
I.P.			0.75	66.87	
I.P.	1150	78.37			
$\Delta 2$			4.77	73.60	
I.P.			0.16	78.21	
I.P.	1031	88.52			
I.P.			0.09	88.43	
I.P.	10.99	99.42			
2+50			9.25	90.17	
I.P.	11.64	101.81			
I.P.			0.55	101.26	
I.P.	11.80	113.06			
H.M.			1.22	111.84	111.84
$\Delta 3$			9.14	103.92	
3+40			6.23	106.83	

B & S ST

Center of Dry Creek
4x10'



A & S ST

H.L.L. & J. July 14/87
 D.C.M.

7

Δ	+	HZ	—	Filev	BB
$\Delta 0$		113.06	5.03	10803	
T.P.			0.23	11283	
T.P.	11.57	124.40			
0+50			10.09	11431	
$\Delta 1$			1.28	123.12	
T.P.			0.02	124.38	
T.P.	12.33	136.71			
1+50			6.43	130.28	
$\Delta 2$			2.50	134.21	
2+50			2.04	134.67	
$\Delta 3$			3.97	133.74	
3+40			1.78	134.93	
T.P.	8.28	143.21			
B.M.			0.72	142.49	142.43
$\Delta 0$			9.98	133.23	
0+50			11.00	132.21	
T.P.	2.10	134.31			
$\Delta 1$			6.37	127.94	
1+50			7.52	126.79	
$\Delta 2$			6.61	127.70	
2+50			4.13	130.18	

ASH & SET

H.L.L. } July 14/87
S.M.

8

Δ	+	HI	-	Elev	BB
T.H.		134.31	0.92	133.39	
T.H.	11.91	145.30			
$\Delta 3$			9.64	135.66	
BM			4.73	140.57	140.56
3+40			6.87	138.43	
$\Delta 0$			5.65	139.65	
0+50			2.42	142.88	
T.H.			0.60	144.70	
T.H.	12.25	156.95			
$\Delta 1$			10.80	146.15	
1+50			7.86	149.09	
$\Delta 2$			4.25	152.70	
2+50			1.54	155.91	
$\Delta 3$			0.33	156.62	
T.H.	10.40	167.52			
3+40			10.25	157.27	
$\Delta 0$			9.81	157.71	
0+50			8.87	158.65	
$\Delta 1$			7.26	160.26	
1+50			6.09	161.43	
$\Delta 2$			4.30	163.22	

Beech & 8 ST.

Cedar & 8 ST.

U.C.L. } Only 14/84
 S.B.M.S

9

Δ	+	HI	-	Elev B.B.
2+50		167.52	3.72	163.80
$\Delta 3$			3.30	164.29
3+40			2.50	165.02

~~ITD NO~~

	+	HI	-	Elev
	1.73	13.54		11.81
BM# 3.235	9.355	7.42	6.12	
BM# 7.071	9.541	6.885	2.470	
BM 5.545	10.418	4.668	4.878	
BM 6.777	15.344	1.851	8.567	
		1.37	13.974	

9 & In S.C. Spk post
 9 & N.S.C. Spk post
 10 & N.S.W. tuck in base b
 10 & In N.W. Spk cl

L St B.M.'s

	6.109	13.679		7.57
BM# 11.295	22.524	2.46	11.229	
# 6.838	26.402	2.96	19.564	
		1.24	25.162	

14 & L
 16 & L S.W. Spk post

f^(M) St North of A St.

Sta	+	NS.	-	Elev.
B.W.	11.80	75.03		63.23
T.P.	12.14	86.91	0.26	74.77
T.P.	11.89	98.76	0.14	86.77
H1+70			9.98	88.23
+95			1.29	96.87
T.P.	11.43	109.53	0.06	98.10
H2+20			6.06	103.47
+40			4.36	105.17
+60			2.89	106.64
+80			2.66	106.87
H3+			1.52	108.07
B.W.			6.47	103.06
T.P.	12.12	121.23	0.42	109.11
+25			8.99	112.24
+50			5.10	116.13
+75			0.55	120.68
T.P.	11.84	132.83	0.24	120.99
H4			8.95	123.88
+25			4.60	128.23
+50			1.33	131.56
T.P.	4.86	137.48	0.21	132.62

Sp. N. E.

S. Lum. A. St.

A St.

N. Lum. A. St.

8th St North of 4th St.

Sta	+ N.S.	↓	Elev.
644+75	137.48	3.47	134.01
45		2.21	135.27
+25		2.02	135.46
+50		1.86	135.62
+75		2.50	134.98
46		5.59	131.89
+20		6.25	131.23
+40		5.21	132.27
+60		6.05	131.43
+80		3.98	133.50
B.M.	7.71 137.90	7.28	130.20 19
47+05		4.05	133.85
+30		5.49	132.41
+55		2.13	129.77
+80		9.45	128.45
48+05		10.28	127.62
+30		10.60	127.30
+55		10.76	127.14
+80		9.91	127.99
49+05		9.20	128.70
+30		7.13	130.77

S. Lim Ash St

Ash St

W. Lim Ash St

Sp. S.E. Ash St

8th St North of A St.

Sta	+ HD	-	Total	
49+55	137.90	4.53	133.37	
+80		0.83	137.07	
T. P.	10.74	142.52	0.10	137.78
B.W.		9.81	138.71	
50		11.07	137.45	
+20		9.47	139.10	
+40		9.57	138.95	
+60		8.37	140.15	
+85		6.36	142.16	
51+10		5.63	142.89	
+35		3.37	145.75	
+60		2.11	146.40	
+85		0.15	148.37	
T. P.	11.80	160.13	0.19	148.33
52+10		10.36	149.77	
+35		9.14	150.99	
+60		6.53	153.60	
+85		4.13	156.00	
53+10		3.39	156.74	
+35		3.10	157.03	
+60		1.57	158.56	
T. P.	2.63	161.96	1.80	159.33

S. Line Reed St.

S.W. Street

Reed St

W. L. Reed St

S. Line Reed St.

8th St North of A St

Sta	+	H.S.	-	Elev.
B.M.		161.96	0.92	161.04
53+80	5.05	166.11	7.02	159.09
54			7.00	159.11
+20			7.09	159.02
+40			8.04	158.07
+65			7.53	158.58
+90			7.25	158.86
55+15			6.50	159.61
+40			5.79	160.32
+65			4.93	161.18
+90			4.22	161.89
56+15			3.76	162.35
+40			2.58	163.53
+65			2.05	164.06
+90			2.10	164.01
57+15			2.32	163.79
B.M.			2.67	163.44

Fini

Keda St.

N. Line Keda

Date 8/10/1909

The image shows an open notebook with two pages. The left page is ruled with a grid and has four vertical red margin lines. The right page is ruled with a grid and has the number '14' in the top right corner. The notebook is placed on a light-colored surface.

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3-12	6.00				
4-25	1.00				
7-10	12.50				
7-30	1.00				
7-6	1.00				
7-8	1.00				
6	1.00				
1-11	1.00				

10.00
 10.00
 10.00

N 1/2 of 8th St.

Sta	+	H.I	-	Elev
0	4486	6.96 ⁵⁶		2.47
+20				
+40				
+60				
+80				
1+05				
+30				
+55				
+80				
2+05				
+30			6.01	0.95
+55			5.75	1.21
+80			5.48	1.48
3+37			5.46	
			5.21	1.75
+20			5.28	1.68
+40			4.74	2.22
+60			4.82	2.14
+85			4.83	2.13
4+10			4.58	2.38
+35			4.20	2.76

3.57

W 1/2 8th St

8th St

C 1/2 8th St

x y S

W 1/2 9th St 2+57 y 6 x 8

9th St

E line 9th St

x y S

N St. C 9th St

Sta	+	HI	-	C lev	BB
4+60		6.96	3.67	3.29	
+85			3.12	3.84	
5+10			3.72	3.24	
+35			3.06	3.90	
BM			2.08	4.876	4473
#	7935	⁸⁰⁹ 12.51		4.473	
+60			3.50	9.31	
+80			^{3.24} 4.43	^{3.53} 3.38	
6			4.43	3.98	
BM	5.135	⁶⁵ 10.07		4.47	
+20			6.14	3.93	
+40			6.10	3.97	
+65			6.18	3.89	
+90			5.65	4.42	
7+15			5.07	5.00	
+40			4.70	5.37	
+65			4.72	5.35	
+90			4.16	5.91	
8+15			3.88	6.19	
+40			3.94	6.15	

W line 10th St

5+77 Y 6x8

10th St

10th St

C line 10th St

W line 11th St

Notes 71

8+60	10.07 ⁶⁵	3.45	6.62	
+40		4.12	5.95	
9		4.02	6.05	
+20		4.11	5.96	
Bm		3.68	6.345	
Bm 3 22	9.60		6.38	
+45		5.31	4.29	
+70		7.84	1.76	
+95		10.84	-1.24	
#	5.945	6.475 6.04	9.47	0.13
10+20		9.02	-2.94	
+45		7.43	-1.35	
+70		7.55	-1.47	
+95		10.11	-4.03	
11+20		5.28	0.80	
11+38		4.74	1.34	
+40		4.72	1.86	
+60		3.98	2.10	
Bm		4.75	1.33	1.33
Bm	3.84	5.17	1.33	

11 St

Chase 11 St
11 & N St 1/2

N 12th St
Y Church 6x8

12th St

N above 12th St.

Sto	+	HO	-	Elv	
+80		5.17	3.35	1.82	
12			3.73	1.44	
+25			5.72	-0.55	
+50			5.61	-0.94	
+75			5.42	-0.25	
13			4.72	+0.45	
+25			4.48	0.69	
+50			4.65	0.52	
+75			4.51	0.66	
14			4.50	0.67	
Bm			4.46	0.71	0.72
Bm	5392	6.11		0.72	
14+18			4.71	1.90	
+20			4.71	1.40	
+40			4.41	1.70	
66			4.47	1.64	
90			5.24	0.87	
15+15			5.40	0.71	
+40			5.89	0.22	
+65			6.59	-0.48	

W line 13th St

13th St

y

13th St

W line 10 St

M June 14th

Stn	+	H.I.	-	Obs
12+90		6.11	5.38	0.73
16+15'			4.78	1.33
-40			5.23	0.97
+65			5.27	0.84
+90			5.44	0.67
Bm			6.48	-0.37
Bm	-0.36	5.20		5.56
17+15'			5.22	-0.02
+40			5.15	0.05
+65			4.99	0.21
+90			5.23	-0.03
18+15'			5.24	-0.04
+40			4.70	0.50
+65			4.43	0.77
+90			4.81	0.59
19+15'			4.59	0.61
+40			4.40	0.80
+65			4.54	0.66
+90			4.71	0.49
20+15'			4.67	0.53
+40			4.51	0.69

W June 14th S.

N above 14th St

Sta	+	HL	-	Clear
20+65		5.20	4.77	0.43
+90			5.50	-0.30
21+15			5.09	0.11
+40			4.67	0.53
Bm			3.555	1.645 (541)
Bm	10325	11.966		1.641
+65		11.97	11.48	0.49
+90			11.12	0.85
22+15			10.07	1.90
+40			9.88	2.09
+65			9.66	2.31
+90			9.38	2.59
23+15			8.94	3.73
+40			6.46	5.11
+65			5.37	6.60
+90			4.37	7.60
Bm			2.71	9.256

B.M.

Linda N + 16 ^{ft} to M M 29 1878

Sta	+	Hi	-	Elev
B.M.		724.16.50		926
23+90			8.92	7.58
+94			8.88	8.12
24+4.46			6.85	9.65
+14.92			5.81	10.69
+25.38			5.58	10.97
+35.84			5.56	10.94
+46.30			6.25	10.25
+56.76			6.48	10.02
+67.22			5.54	10.96
+77.68			5.09	11.41
+88.14			5.38	11.12
+98.50			5.06	11.44
25+9.06			4.60	11.90
+11.81				
+ 37			9.88	12.62
+ 62			8.76	12.74
+ 87			8.53	12.95
26+12			8.54	12.96

J.M.

Linnard 16th St N to M Nov 29 1927

Sta 4 P.M. - Elev

26+37	16.50	2.95	13.55
+62		2.74	13.76
+87		2.30	14.20
29+12		2.20	14.30
+87		1.75	14.75
+62		1.57	14.99

St M St

L.C.M.

Leonard 15th St - N to L No 32 1887

25

Sta + H.I. - Elev

B.M. 5.90 7.54 1.64

0		7.00	0.54
+10.46		7.12	0.42
+21		7.09	0.45
+31		6.98	0.61
+42		6.97	0.57
+52		6.80	0.74
+59		6.63	0.91
+84		6.27	1.27
1+09		6.09	1.45
+34		5.12	2.42
+59		5.17	2.37
+84		5.07	2.47
2+09		4.88	2.66
+34		4.60	2.94
+59		4.54	3.00
+84		4.40	3.14
B.M. 11.03	15.04	3.53	4.01

Som

Leonard 15th St NW 31/97

Sta	+	Ht.	-	Obs
3+09		15.04	11.53	3.11
+84			11.05	3.99
+59			11.13	3.91
+84			10.45	4.59
4+09			10.12	4.92
+34			9.70	5.34
+59			9.89	5.65
+84			8.97	6.07
5+09			8.81	6.23
+34			7.87	7.17
+59			7.46	7.58
+84			6.71	8.33
6+09			6.41	8.63
+34			5.67	9.37
+59			5.43	9.61
+84			4.20	10.84
7+09			2.57	12.47
+26				
Bm			3.81	11.23

J82

Lush Lane
15+09

Hm

Linnard 14th St N to 2 Dec 9, 1997

Sta	#	#.li	—	Elev
Rm.	8.43	8.07		-0.36
0			7.80	0.27
+10			7.85	0.22
+21			7.90	0.17
+31			7.68	0.39
+42			7.50	0.57
+52			7.24	0.73
+59			7.11	0.96
+84			6.51	1.56
1+09			6.28	1.79
+34			5.77	2.30
+59			5.10	2.97
+84			4.73	3.34
2+09			4.33	3.74
+34			4.40	3.67
+39			3.90	4.17
+84			3.86	4.21
3+09			3.73	4.34
+34			3.62	4.55
+59			3.55	4.52

L.C.M.

L.L.

14th ST N to I Dec 1, 1887

Sta	+	H.I.	-	Elev
3784		8.07	3.41	4.66
P.M.	3.81	9.17	2.71	5.36
4709			4.03	5.14
+34			3.84	5.83

Cent. M ST

L.C.M. + 14th ST N to I Dec 1, 1887

L.M.

L.S. 13th St N 7th L No 317

Sta	+	HI	-	Elev
B.M.	5.43	6.15		0.72
0			4.73	1.42
+10			4.58	1.62
+21			4.26	1.89
+87			4.35	1.80
+42			5.56	0.59
+52			5.80	0.34
+59			5.68	0.47
+84			5.72	0.33
1+09			6.77	-0.62
+34			7.12	-0.97
+59			6.24	-0.09
+84			5.63	+0.32
2+09			5.62	+0.53
+84			5.69	0.46
+69			4.30	1.85
+81			4.48	1.67
3+09			5.08	1.12
+34			5.22	0.93
+59			5.26	0.89

13th 9th L No 317

S.I.M.

L.O.M -

L.S. 13th ST-NY-9 H-2 9/57

Sta	+	Ht.	-	Ch
3+84		6.15	5.49	0.66
4+09			6.43	0.72
+34			5.72	0.43
T.P.	8.14	9.12	6.47	0.68
+59			8.56	0.56
+84			8.32	0.80
5+09			7.78	1.34
+34			7.40	1.72
+59			7.27	1.85
+84			6.79	2.33

M.S.F

S.P.M.

12th Street N.L. L. Dec 3/87

Sta	+	Ht.	-	Elev
B.M.	6.87	8.20		1.33
0			6.96	1.24
+10			6.85	1.35
+21			6.72	1.48
+31			6.67	1.69
+42			6.34	1.86
+52			6.38	1.82
+59			6.44	1.76
+84			6.23	1.97
1+09			5.95	2.25
+34			6.04	2.16
+59			5.77	2.43
+84			5.64	2.56
2+09			5.09	3.12
+34			4.96	3.24
+59			4.93	3.27
+84			4.60	3.70
3+09			4.16	4.14
+84			4.15	4.15
B.M.	8.66	11.84	0.02	8.18

12th St N. Brantford N.W.

S.F. M. 21

12th M. 21 S.P.K. City House

A.M.

12th St. N. W. 3/187

Sta	+	Hi.	-	Clv
3+59		11.84	7.75	4.09
+84			7.64	4.20
4+09			7.24	4.60
+34			7.08	4.76
+59			6.68	5.16
+84			6.43	5.41
5+09			6.34	5.50
+34			6.68	6.16
+59			5.49	6.35
+84			5.31	6.53
6+09			4.76	7.08
+34			4.15	7.41
+59			4.17	7.67
+84			3.82	8.02
7+09			3.63	8.27
P.M.			2.46	9.38

St. Wendel

11[#] ST N Z E Dec 6, 97

Sta	+	H ₁	-	Elev
Bm.	5.25	11.69		6.38
Bm	4.87	11.25		6.38
0			5.42	5.93
+10			4.90	6.35
+21			4.75	6.50
+31		11.69	5.14	6.49
+42			4.84	6.79
+52			4.83	6.80
+59			4.82	6.81
+84			5.00	6.63
1+09			4.73	6.90
+34			4.64	6.99
+59			4.90	6.73
+84			5.01	6.62
2+09			5.16	6.47
+34			5.38	6.25
+59			5.64	5.99
+84			5.96	5.67
3+09			6.22	5.41
+34			6.24	5.39

105 + 11 116 Brn Riv

Mendenhall

34

Leonard 11th St NW I Dec 6/97

Sta	+	Hs	-	Elev
3759		11.69	6.13	5.48
3784			6.07	5.56
I.P.	10.67	16.37	5.93	5.70
4109			10.64	5.73
+34			10.43	5.94
+59			10.15	6.22
+84			9.64	6.73
5109			8.96	7.51
+34			8.24	8.13
+59			6.54	9.43
+84			5.66	10.71
6109			6.17	10.20
+34			5.03	11.34
+59			4.62	11.75
+84			3.57	12.80
7109			2.49	13.48
B.M.			1.17	15.20

3786 M St-

Mendenhall

35

2 L. 10th St N. W. 2 11/8/57

Sta	+	H ₂ O	-	Elem
-----	---	------------------	---	------

Bm

0

+10

+21

+31

+42

+52

+59

+84

1+09

+34

+59

+84

2+09

+34

+59

+84

3+09

+34

+59

5.94

6.49

Lpm

Dec 8/07

LJ

10th St N 202

Sta	+	Hs.	-	Elev
Bm	H. 60	9.47		4.87
+04			6.99	3.48
+10			5.97	3.58
+21			5.93	3.54
+31			6.72	3.75
+42			5.53	3.94
+52			5.51	3.94
+59			5.51	3.96
+84			5.30	4.17
+09			5.29	4.18
+34			5.30	4.17
+59			5.11	4.86
+84			4.84	4.63
2+09			4.99	5.08
+34			4.12	5.35
+59			4.08	5.39
+84			3.66	5.81
3+09			3.52	5.95
+34			2.99	6.48
+59			2.60	6.87

658 107 N 89N LOC Bm

631

838

4.87

8.25

4.87

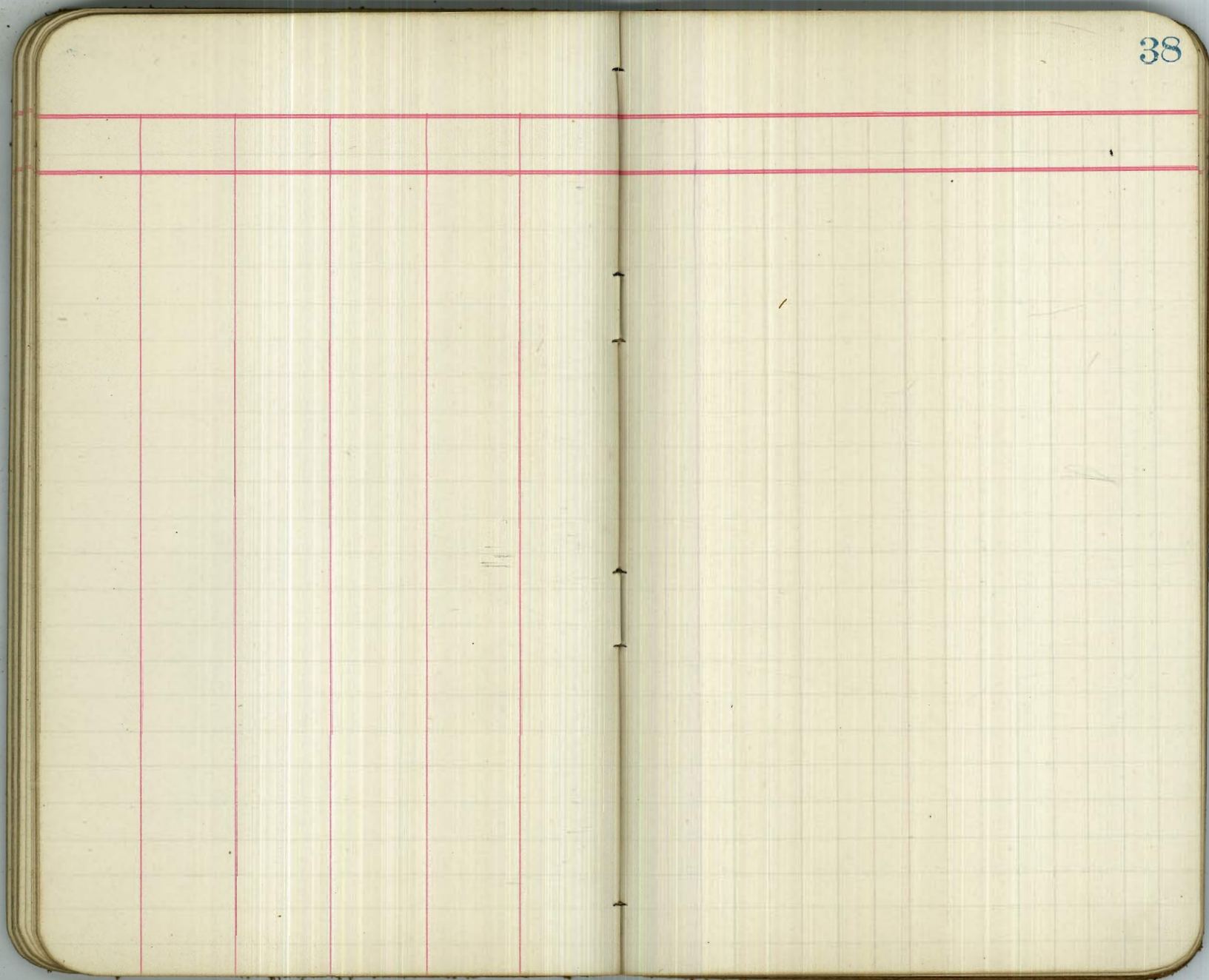
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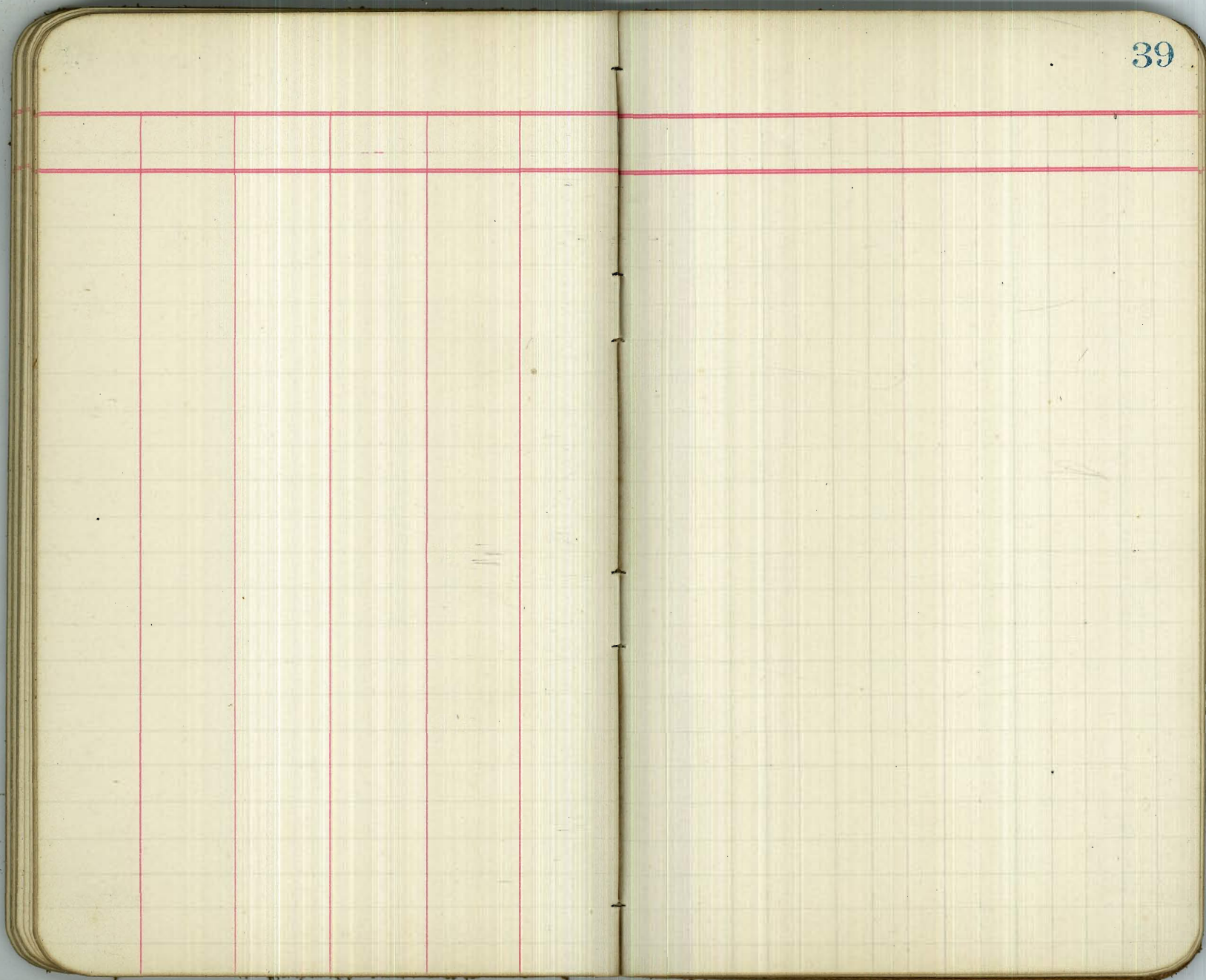
10th St. N. to J. Dec 12/12

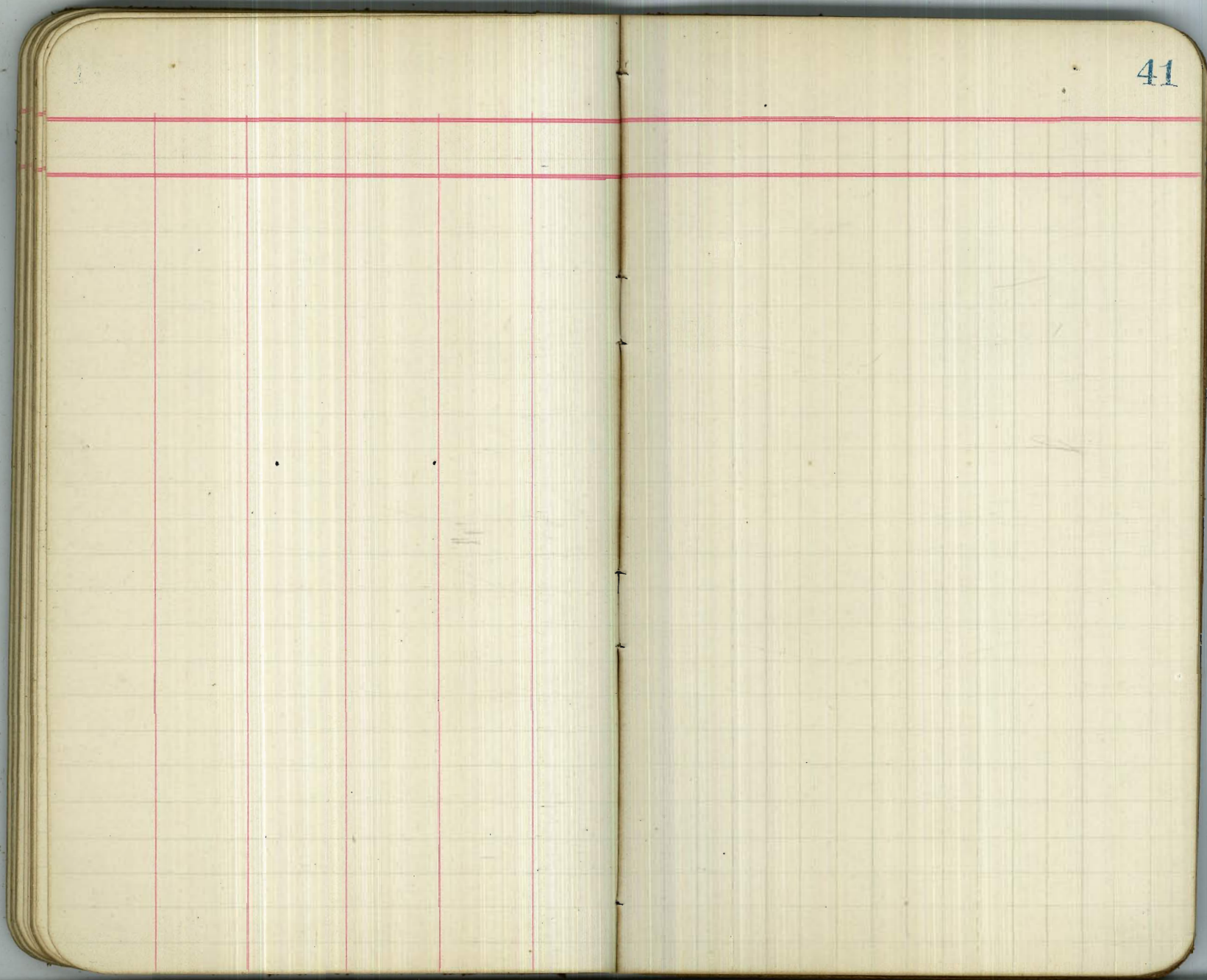
Sta	+	Asi	-	Elev
+84		9.47	2.17	7.30
B.M.	7.17	15.76	0.94	8.59
11+09			8.11	7.59
+34			7.77	7.93
+59			7.23	8.47
+84			6.77	8.93
57+09			6.30	9.40
+34			6.06	9.64
+59			5.67	10.03
+84			5.32	10.34
67+09			4.67	11.03
+34			4.24	11.42
+59			3.75	11.95
+84			3.33	12.37
77+09			3.05	12.65
B.M.			1.75	13.95

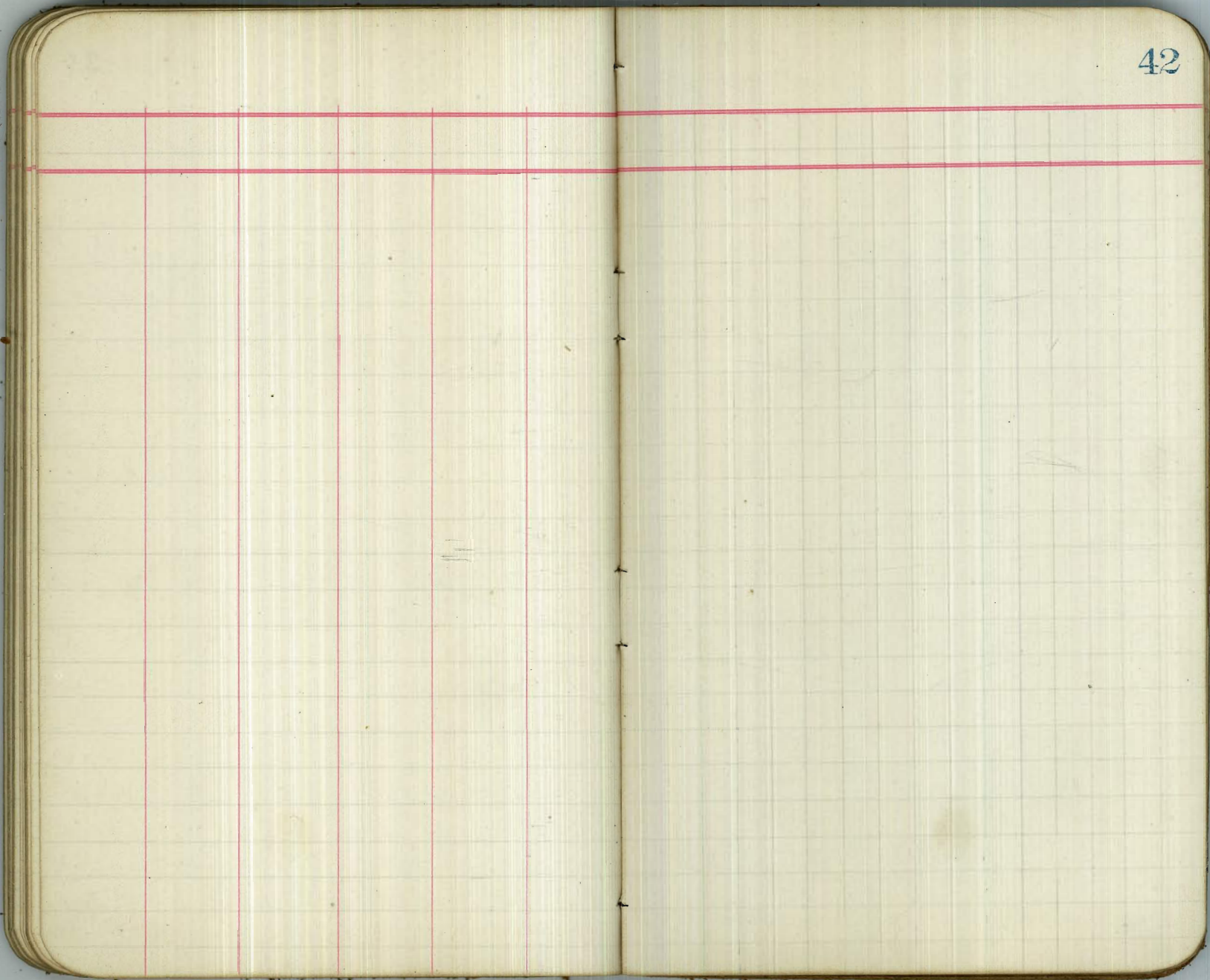
117 N. 117 N. St. W. 1900

J. West James









L St above 12 th

Sta	+	HD	-	C to Bm
Bm	2.042	17.242		15.20
Bm	1.447	10.944	7.845	9.397
66+38	Str 66	next	1.73	9.11
63	log		3.89	6.95
88			6.13	4.71
67+13			7.04	3.76
67+38			7.66	3.18
+63			8.00	2.84
+88			8.24	2.60
68+13			8.10	2.74
67+38			8.25	2.59
+63			7.68	3.16
+80			7.06	3.78
88			6.55	4.29
69+13			4.51	6.33
67+38			5.46	5.38
+63			4.83	6.01
+84			4.30	6.54
Bm#	6.784	14.749	2.889	7.955
70+13			7.28	7.46
+38			6.53	8.11

11 St

12 & L SW Spk post

66 , 9.73 Y branch

66+13 9.50 ..

W line 13 St

Y Branch

13 & L SW Spk tel 50 Cam

L St levels

Sto	+	HI	-	Elev	BB
70+63		14.74 ⁵⁹	6.09	8.65	
84			6.00	8.74	
71+13			6.22	8.52	
+38			8.21	6.53	
+60			9.72	5.02	+
Bm			4.017	10.712	
Bm			7.17	7.57	7.60
+63			9.73	5.01	
+84			7.96	6.78	
72+13			7.35	7.39	
72+38			7.12	7.62	
Bm #	6109	13.68 ⁷⁹		7.57	
+63			5.90	7.78	
+84			5.92	7.76	
73+13			5.67	8.01	
73+38			5.10	8.58	
+63			5.14	8.54	
+84			4.73	8.95	
74+13			4.96	8.72	
74+38			4.95	8.83	
+63			4.81	8.87	

X March 14 th St

14 & L W C Spk fence

S. M. levels

Stn	+	H ₂ O	-	6.4m	BB
74+88		13.68	4.97	8.71	
Bm	6.005	13.58 ⁷⁵		7.57	
75+13			4.89	8.69	
+38			4.86	8.72	
+63			4.76	8.82	
+88			3.61	9.97	
76+13			2.04	11.54	
+48			1.23	12.35	
Bm			2.35	11.225	11.23
Bm	11.40	22.63		11.23	
+98			10.53	12.10	
+63			8.53	14.10	
+94			8.12	14.51	
77+13			7.55	15.08	
+34			7.54	15.09	
+63			7.35	15.28	
+84			6.47	16.16	
78+13			5.94	16.64	
+38			4.68	17.95	
+63			3.53	19.10	

Y Branch 15th St.

15th St

76+88
W
3

Nov 18 91 Hamilton
A Hamilton

46

L St level above 12th St

Blm + HJ - Elev BB

78+88 22.63 2.81 19.82

Blm 1.140 2631 25.17

Sheeh 77+88 6.48 19.83

168 L

Mundenhall
Linnard Red

47

L ST East of 12th Nov 27 187

Sta	+	H.I.	-	Clm
-----	---	------	---	-----

Bm	3.35	12.75		9.40
----	------	-------	--	------

66+13			3.28	9.47
-------	--	--	------	------

+38			3.85	8.90
-----	--	--	------	------

+63			5.92	6.83
-----	--	--	------	------

+88			7.99	4.76
-----	--	--	------	------

67+13			9.05	3.70
-------	--	--	------	------

+38			9.57	3.18
-----	--	--	------	------

+63			9.93	2.82
-----	--	--	------	------

Bm	2.98	12.38		9.40
----	------	-------	--	------

I.P.	6.08	9.67	8.79	3.59
------	------	------	------	------

+88			7.19	2.48	2.60
-----	--	--	------	------	------

68+13			7.06	2.61	2.74
-------	--	--	------	------	------

+38			7.01	2.66
-----	--	--	------	------

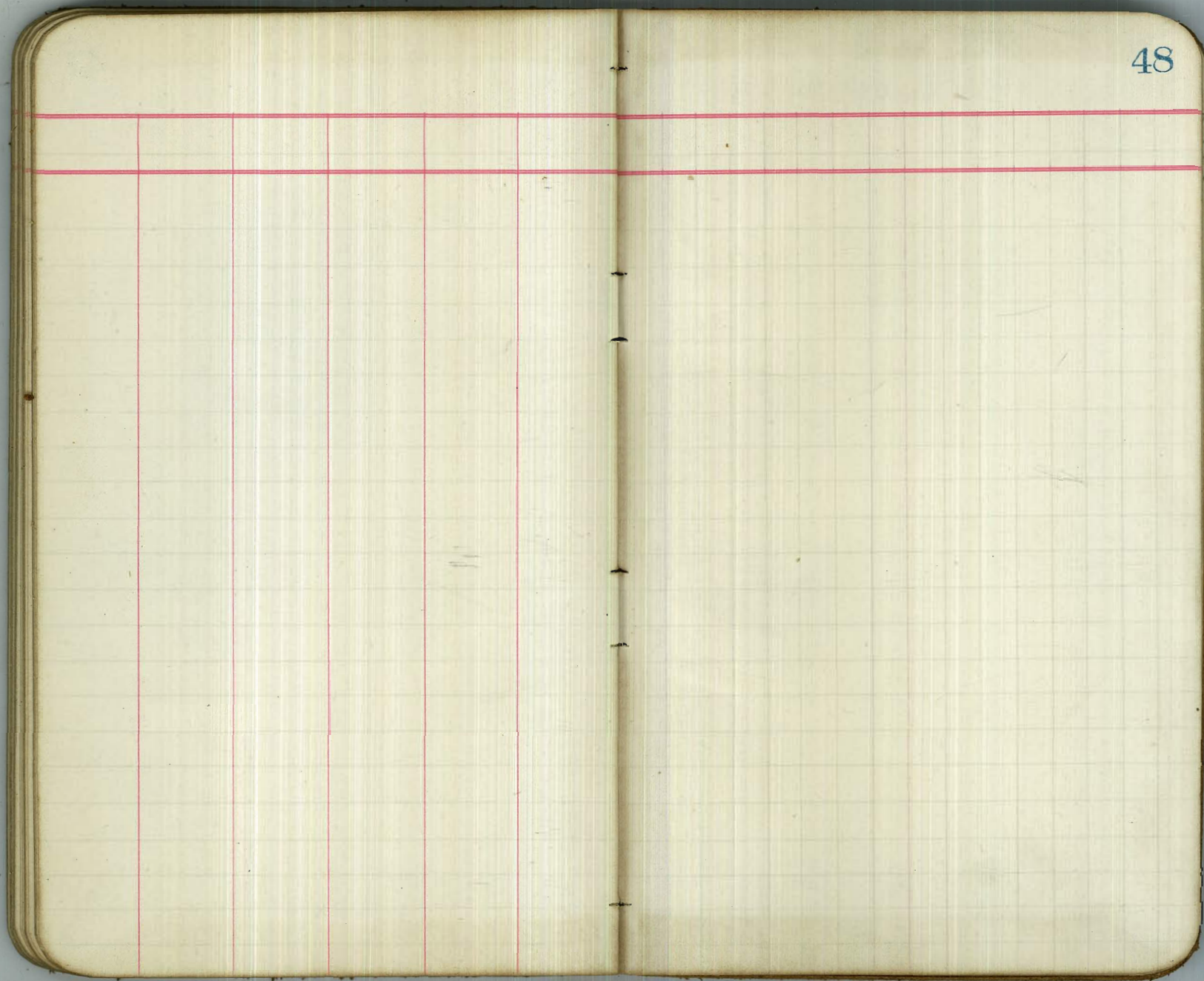
+63			6.59	3.08
-----	--	--	------	------

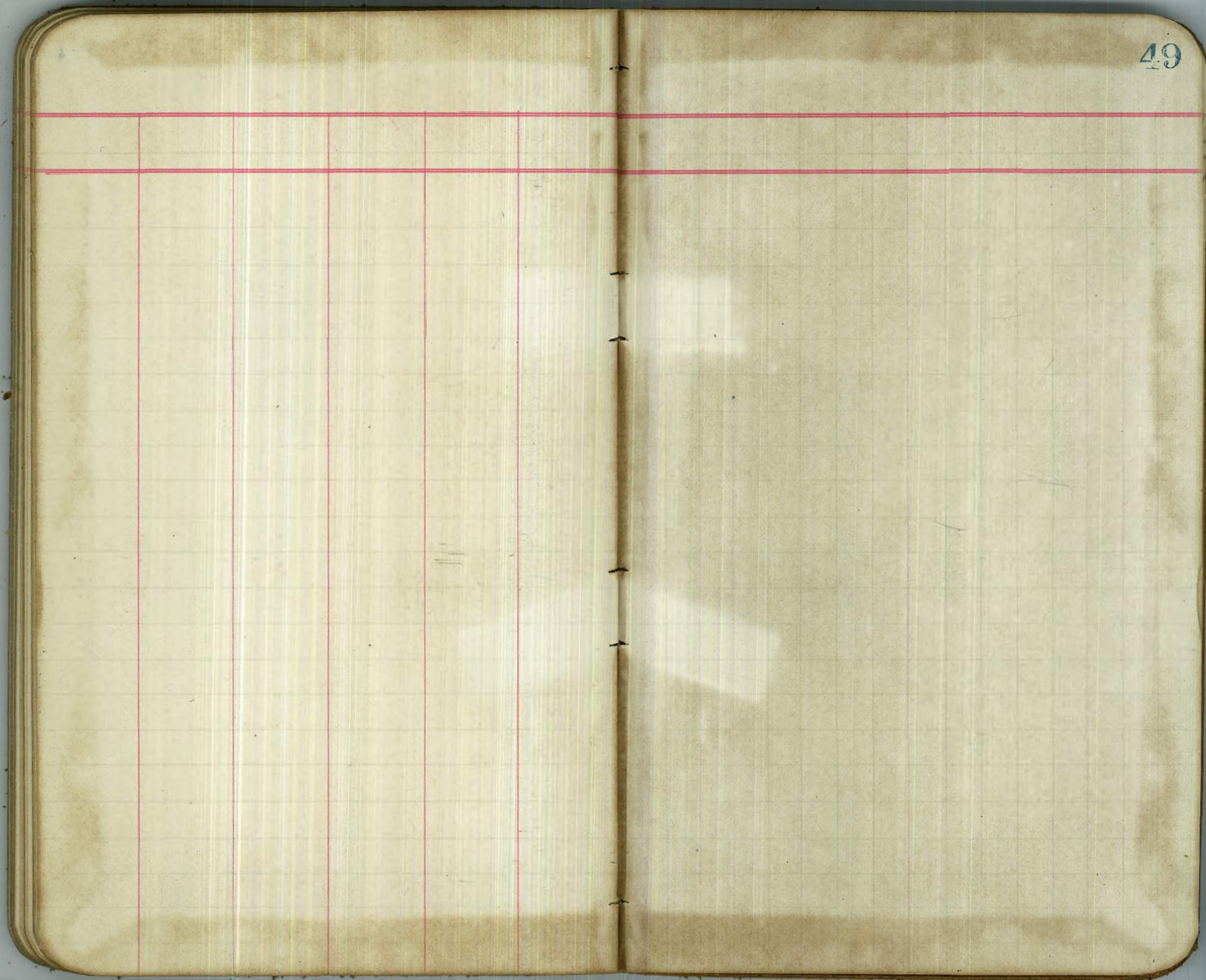
+88			5.58	4.09
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Bm			1.72	7.95
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12+2 A.M. Spike in Post

13th +2 3PM W Pole





10.53

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

2
18
18

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	1.81	81
1	99.98	1.75	99.98	2.18	99.97	2.62	99.95	3.05	81
2	99.94	3.49	99.92	3.93	99.91	4.36	99.88	4.80	81
3	99.86	5.23	99.84	5.67	99.81	6.10	99.79	6.54	81
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	81
6	99.45	10.45	99.41	10.89	99.36	11.32	99.31	11.75	81
7	99.25	12.19	99.20	12.62	99.14	13.05	99.09	13.49	81
8	99.03	13.92	98.97	14.35	98.90	14.78	98.84	15.21	81
9	98.77	15.64	98.70	16.07	98.63	16.50	98.56	16.93	81
10	98.48	17.36	98.40	17.79	98.33	18.22	98.25	18.65	71
11	98.16	19.08	98.08	19.51	97.99	19.94	97.90	20.36	71
12	97.81	20.79	97.72	21.22	97.63	21.64	97.53	22.07	71
13	97.44	22.50	97.34	22.92	97.24	23.34	97.13	23.77	71
14	97.03	24.19	96.92	24.62	96.81	25.04	96.70	25.46	71
15	96.59	25.88	96.48	26.30	96.36	26.72	96.25	27.14	71
16	96.13	27.56	96.00	27.98	95.88	28.40	95.76	28.52	71
17	95.63	29.24	95.50	29.65	95.37	30.07	95.24	30.49	71
18	95.11	30.90	94.97	31.32	94.83	31.73	94.69	32.14	71
19	94.55	32.56	94.41	32.97	94.26	33.38	94.12	33.79	71
20	93.97	34.20	93.82	34.61	93.67	35.02	93.51	35.43	65
21	93.36	35.84	93.20	36.24	93.04	36.65	92.88	37.06	65
22	92.72	37.46	92.55	37.86	92.39	38.27	92.22	38.67	65
23	92.05	39.07	91.88	39.47	91.71	39.87	91.53	40.27	65
24	91.35	40.67	91.18	41.07	91.00	41.47	90.81	41.87	65
25	90.63	42.26	90.45	42.66	90.26	43.05	90.07	43.44	64
26	89.88	43.84	89.69	44.23	89.49	44.62	89.30	45.01	63
27	89.10	45.40	88.90	45.79	88.70	46.17	88.50	46.56	62
28	88.29	46.95	88.09	47.33	87.88	47.72	87.67	48.10	61
29	87.46	48.48	87.25	48.86	87.04	49.24	86.82	49.62	60
30	86.60	50.00	86.38	50.38	86.16	50.75	85.94	51.13	59
31	85.72	51.50	85.49	51.88	85.26	52.25	85.04	52.62	58
32	84.80	52.99	84.57	53.36	84.34	53.73	84.10	54.10	57
33	83.87	54.46	83.63	54.83	83.39	55.19	83.15	55.56	56
34	82.90	55.92	82.66	56.28	82.41	56.64	82.16	57.00	55
35	81.92	57.36	81.66	57.71	81.41	58.07	81.16	58.42	54
36	80.90	58.78	80.64	59.13	80.39	59.48	80.13	59.83	53
37	79.86	60.18	79.60	60.53	79.34	60.88	79.07	61.22	52
38	78.80	61.57	78.53	61.91	78.26	62.25	77.99	62.59	51
39	77.71	62.93	77.44	63.27	77.16	63.61	76.88	63.94	50
40	76.60	64.28	76.32	64.61	76.04	64.94	75.76	65.28	49
41	75.47	65.61	75.18	65.93	74.90	66.26	74.61	66.59	48
42	74.31	66.91	74.02	67.24	73.73	67.56	73.43	67.88	47
43	73.14	68.20	72.84	68.52	72.54	68.84	72.24	69.15	46
44	71.93	69.47	71.63	69.78	71.33	70.09	71.02	70.40	45
45	70.71	70.71							
Degrees.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Degrees.
	DEGREES.		¼ DEGREE.		½ DEGREE.		¾ DEGREE.		

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