

SEWERAGE  
OFFICE GRADE BOOK  
1<sup>ST</sup> 2<sup>ND</sup> 3<sup>RD</sup> & 4<sup>TH</sup> STREETS

9

TRANSIT

F. B. 692

692

Table 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	42	38	88½	58	135½
19	44½	39	91	59	137½
20	46½	40	93½	60	140

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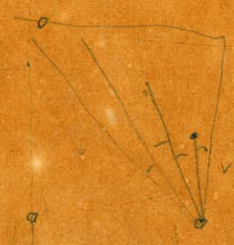
DRAWING PAPER & MATERIAL, MATHEMATICAL INSTRUMENTS, ETC.,  
STATIONERS AND PRINTERS,

SAN FRANCISCO, CAL.

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



1<sup>st</sup> St - N of I

				I St
1	9.26	3.10	6.16	
+50	10.25	3.41	6.84	
2	11.24	3.73	7.51	
+50	11.80	4.04	7.76	
3	11.98	4.35	7.63	
+50	12.63	4.66	7.97	
4	11.72	4.98	6.74	
+50	11.86	5.29	6.57	H St
5	12.59	5.60	6.99	
+50	14.04	5.91	8.13	
6	13.97	6.23	7.74	
+50	14.52	6.54	7.98	
7	14.32	6.85	7.47	
+50	14.45	7.16	7.29	
8	14.73	7.48	7.25	
+40	13.98	7.73	6.25	G St

11.160

1

3+25	4.50
+75	4.82
4+25	5.13
+75	5.44
5+25	5.75
+75	6.07
6+25	6.38
+75	6.69
7+25	7.00
+75	7.32

1st St. N. of I.

8+80	13.43	7.98	5.45
9+30	13.49	8.29	5.20
+80	13.53	8.60	4.93
10+30	14.32	8.91	5.41
+80	14.59	9.23	5.36
11+30	15.33	9.54	5.79
+80	15.92	9.85	6.07
12+20	17.27	10.10	7.17
+60	16.92	10.93	5.99
13+10	17.79	11.98	5.81
+60	18.76	13.02	5.74
14+10	20.07	14.06	6.01
+60	21.25	15.10	6.15
15+10	22.77	16.14	6.63
+60	23.89	17.18	6.71
16	25.34	18.01	7.32
+40	25.58	18.85	6.73
+90	26.44	19.89	6.55
17+40	27.32	20.93	6.39
+90	28.58	21.98	6.60
18+40	29.46	23.02	6.44

F S1

E S1

29/11

11/18

208/3

Grd

9+05	8.13
+55	8.44
10+05	8.76
+55	9.07
11+05	9.39
+55	9.70
12+85	11.45
13+35	12.50
+85	13.54
14+35	14.58
+85	15.62
15+35	16.66

## 1st St. N. of I

18	+90	30.28	24.06	6.22	
19	+25	31.06	24.79	6.27	
19	+87.5	33.13	26.10	7.03	D St
20	+50	32.43	26.47	5.96	
21		33.20	26.76	6.44	
21	+50	33.57	27.06	6.51	
22		34.05	27.35	6.70	
22	+50	34.01	27.64	6.37	
23		34.14	27.94	6.20	
23	+20	34.23	28.06	6.17	
23	+60	34.35	28.29	6.06	C St
24		34.45	28.53	5.92	
24	+50	34.28	28.22	5.46	
25		35.16	29.11	6.05	
25	+50	35.49	29.41	6.08	
26		35.89	29.70	6.19	
26	+50	35.96	30.00	5.96	
27		36.45	30.29	6.16	
27	+40	36.75	30.53	6.22	B St
28	+80	<del>37.45</del>	<del>31.67</del>	<del>6.37</del>	
28	+30	39.73	33.10	6.63	

x 1.48

208 1/3

11.170

x 0

1.135

1st St. N. of I

28+80	<del>40.39</del>	<del>34.53</del>	<del>5.86</del>
29+30	<del>41.56</del>	<del>35.96</del>	<del>5.60</del>
+80	43.85	37.39	6.46
30+30	<del>45.11</del>	<del>38.82</del>	<del>6.59</del>
+80	47.66	40.24	7.42
31+20	<del>49.06</del>	<del>41.39</del>	<del>7.67</del>
+60	49.97	42.53	7.44
32+10	<del>51.58</del>	<del>43.96</del>	<del>7.42</del>
+60	52.74	45.37	7.37
33+10	<del>53.68</del>	<del>46.82</del>	<del>6.86</del>
+60	54.11	48.24	5.87
34+10	<del>55.25</del>	<del>49.67</del>	<del>5.58</del>

Read  
changed  
A St. ped

2857

+60 S. line Ash St.

2nd St. N. of J

				J St
1	3.47	-1.91	5.38	
+50	3.32	-1.55	4.87	
2	3.45	-1.20	4.65	
+50	4.41	-0.84	5.25	
3	5.04	-0.48	5.52	
+50	5.64	-0.12	5.76	
4	5.90	0.23	5.67	
+40	5.89	0.59	5.30	I St
+80	6.24	0.88	5.36	
5+30	6.41	1.16	5.25	
+80	6.92	1.52	5.40	
6+30	7.43	1.88	5.55	
+80	8.03	2.23	5.80	
7+30	8.27	2.59	5.68	
+80	9.16	2.95	6.21	
8+30	10.11	3.30	6.81	H St X

11:40

2nd St. N. of J

Star Cl Grid

8+80	9.67	3.93	5.74
9+30	9.81	4.55	5.26
+80	10.76	5.18	5.58
10+30	11.87	5.80	6.07
+80	13.47	6.43	7.04
11+30	13.33	7.05	6.28
+80	13.88	7.68	6.20
12+20	14.12	8.17	5.95
+60	15.13	8.68	6.45
13+10	15.72	9.30	6.42
+60	16.89	9.93	6.96
14+10	17.65	10.55	7.10
+60	18.24	11.18	7.06
15+10	18.69	11.80	6.89
+60	19.12	12.43	6.69
16	20.02	12.82	7.10
+40	19.25	13.42	5.83
+90	21.46	14.77	
17+40	23.52	16.12	
+90	25.04	17.47	
18+40	26.30	18.83	

G St

F St

1.80  
10/25

1.37

- 12+85
- 13+35
- +85
- 14+35
- +85
- 15+35
- 16+65
- 17+15
- +65
- 18+15
- +65



2nd St. N. of J

El Grad

18+90	27.21	20.18
19+40	29.19	21.53
+80	29.50	22.61
20+20	31.13	23.69
+70	31.71	25.04
21+20	32.69	26.39
+70	33.83	27.75
22+20	34.63	28.08
+70	35.55	28.42
23+05	35.72	28.65
+67.5	36.36	29.07
24+30	35.63	29.48
+80	37.04	29.82
25+30	38.62	30.15
+80	38.58	30.48
26+30	38.36	30.82
+80	38.44	31.15
27	38.44	31.28
+40	37.82	31.55
+80	38.20	31.82
28+30	38.24	32.15

E St.

1.137

x

D St.

1.150

C St.

19+15
20+45
+95
21+45
+95
22+45
23+35
24
24+55
25+05
+55
26+05
+55
28+05
+55

## 2nd St. No. of J

28+80	38.51	32.48.	
29+30	38.72	32.82	
+80	38.89	33.15	
30+30	39.29	33.48	
+80	39.87	33.82	
31+20	39.93	34.08	5.85 B St
+60	40.20	35.46	
32+10	41.15	37.18	
+60	42.59	38.91	
33+10	47.96	40.63	
+60	49.66	42.36	
34+10	51.31	44.08	
+60	52.88	45.80	
35	54.94	47.18	A St
+40	55.55	48.56	
+90	57.85	50.28	
36+40	59.05	52.01	
+90	60.15	53.73	
37+40	61.62	55.46	
+90	62.86	57.18	5.68
38+40	Same as 37 St.		

11.15

x

141

1.29

x

29+05

+15

30+05

+55

31+85

32+35

32+85

33+35

+85

34+35

35+65

36+15

+65

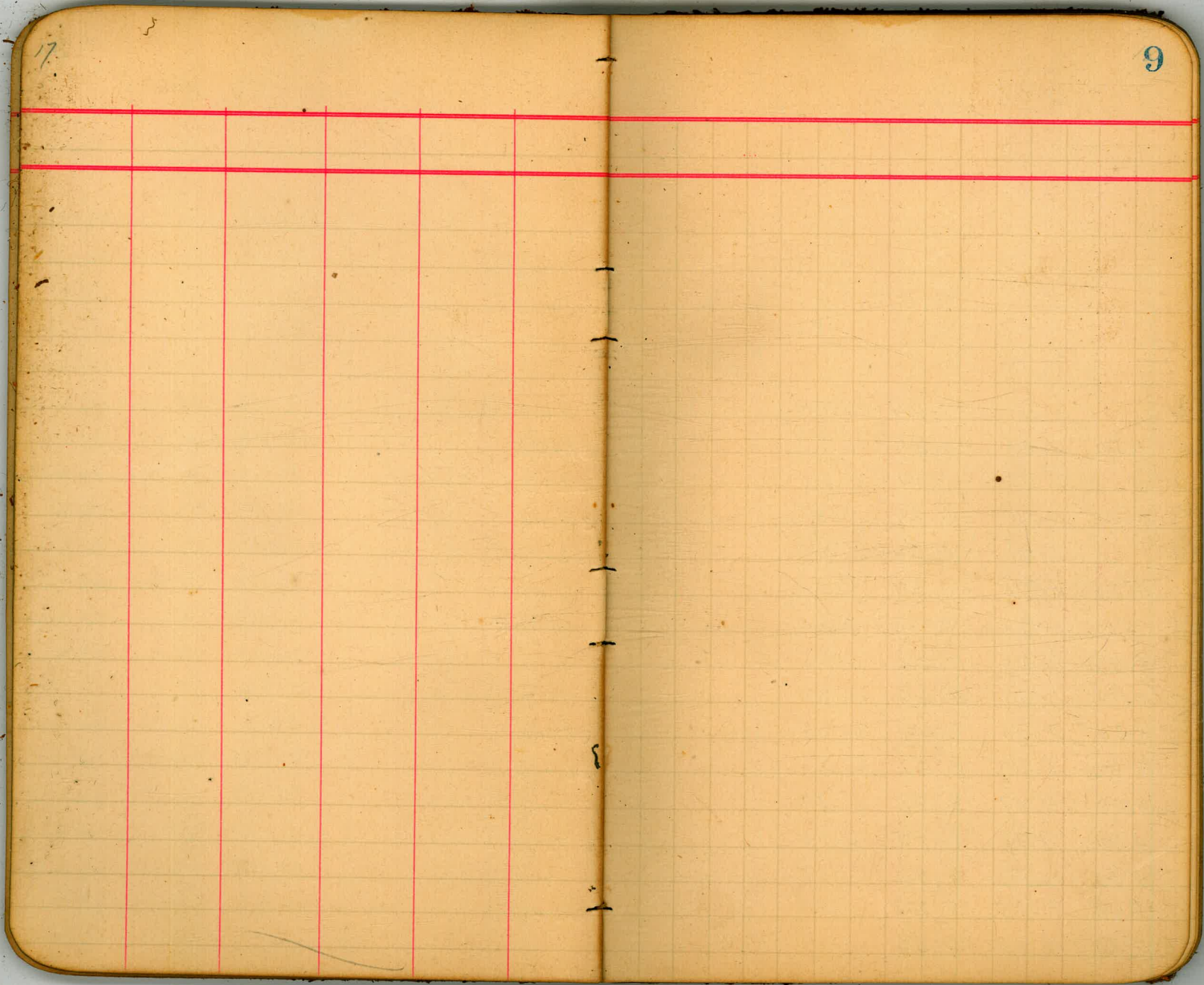
37+15

+65

38+15

17

9



3rd St. N. of J.

				J St
1	2.41	-1.64	4.05	
+50	3.14	-1.39	4.53	
2	3.55	-1.14	4.69	
+50	4.18	-0.89	5.07	
3	5.00	-0.64	5.64	
+50	5.91	-0.39	6.30	
4	6.70	-0.14	6.84	
+40	7.01	0.06	6.95	I St
+50	7.58	0.68	6.90	
5+30	8.10	1.44	6.66	
+80	8.47	2.21	6.26	
6+30	9.17	2.98	6.19	
+80	9.89	3.75	6.14	
7+30	10.61	4.52	6.09	
+80	11.35	5.29	6.06	
8+30	12.15	6.06	6.09	H St

1.290

1.165

All these  
elevations on 30  
 are approximate

3rd St. N. of J

8+80	12.75	6.83	5.87	
9+30	13.50	7.60	5.90	
+80	14.32	8.37	5.95	
10+30	15.21	9.14	6.07	
+80	16.13	9.91	6.22	
11+30	17.13	10.68	6.45	
+80	18.19	11.44	6.75	
12+20	18.69	12.06	6.63	G St.
+60	19.60	12.68	6.92	
13+10	20.46	13.44	7.02	
+60	21.16	14.27	6.95	
14+10	21.96	14.98	6.98	
+60	22.69	15.75	6.94	
15+10	23.52	16.52	7.00	
+60	24.46	17.29	7.17	
16	24.89	17.90	6.98	F St
+40	25.69	18.75	6.94	
+90	26.64	19.81	6.83	
17+40	27.82	20.88	6.94	
+90	29.05	21.94	7.11	
18+40	30.07	23.01	7.06	

1085

1165

\*

2128

1147

3rd St. N. of J

	Elev	Grade	Cut	
18+90	31.15	24.07	7.08	
19+40	32.20	25.14	7.06	
+80	32.51	25.99	6.52	E St
20+20	33.31	26.84	6.47	
+70	34.31	27.90	6.41	
21+20	35.65	28.97	6.68	
+70	37.00	30.03	6.97	
22+20	37.96	31.09	6.87	
+70	38.78	32.16	6.62	
23+05	39.49	32.90	6.59	
+57.5	40.33	34.02	6.31	small D St
24	41.20	34.23	6.97	x
+50	42.01	34.48	7.53	
25	42.31	34.73	7.58	
+50	42.51	34.98	7.53	
26	42.71	35.23	7.48	
+50	42.59	35.48	7.11	
27	42.68	35.73	6.95	
+40	42.51	35.93	6.64	C St
+80	42.72	36.13	6.59	
28+30	42.68	36.38	6.30	

1.47

1.200

23+30	33.43
23+30	33.87
23+75	34.14
24+25	
+75	



4<sup>th</sup>. St. N. of K.

1	-0.5	K St	
+25	-0.40		X
+50	-0.30		
+75	-0.20		
2	-0.11		
+25	-0.01		
+50	+0.09		
+75	0.19		
3	0.29		
+25	0.39		
+50	0.49		
+75	0.59		
4	0.68		
+20	0.76	4+40	4+40
+40	0.84		J St
+60	0.92		X X

$$\frac{3947}{100}$$



4th St. N. of K.

	Grade
4+80	1.00
5+05	1.27
+80	1.53
+55	1.80
+80	2.06
6+05	2.33
+80	2.60
+55	2.86
+80	3.13
7+05	3.39
+80	3.66
+55	3.92
+80	4.14
8	4.35
+20	4.56
+40	4.78
+60	5.04
+85	5.31
9+10	5.57
+85	5.84
+60	6.11

X

1.00  
2.00  
3.00

I. St

N. St

31  
4th St. N. of K

9+85-	6.37		
10+10-	6.64		
+35-	6.90		
+60	7.17		
+85-	7.43		
11+10	7.70		
+35-	7.97		
+60	8.23		
+85-	8.50	8.50	12+10
12+10	8.79		HST
+35-			
+60			M.S.H
+85-			
13+10			
+35-			
+60			
+85-			
14+10			
+35-			
+60			
+85-			

1.06  
1.00

X

1.00  
1.00



4<sup>th</sup> St. N. of K

20			
+20			N.L.F. 97
+45			
+70			
+95			
21+20			
+45			
+70			
+95			
22+20			
+45			
+70			
+95			
23+20			S.L. E
+40			23+60
+60			E St
+80			
24			N.L.F.
+25			
+50			
+75			

4<sup>th</sup> St. N. of K

25-

+25

+50

+75

26

+25

+50

+75

27

+20

+40

+60

+80

28+05

+30

+55

+80

29+05

+30

+55

+80

23.00

23.25

24.00

24.75

25.50

26.25

27.00

27.75

28.50

29.25

30.00

30.75

31.50

32.25

33.00

33.75

34.50

35.25

36.00

36.75

37.50

38.25

39.00

39.75

40.50

41.25

42.00

S.L.D. St.

27+40  
D.S.T.

N.L. Dst.

4<sup>th</sup> St. N. of K

30+05

+30

+55

+80

31

+20

+40

+60

+85

32+10

+35

+60

+85

33+10

+35

+60

+85

34+10

+35

+60

+80

S.L.C

31+20

C.S.T

N.L.C ST.

S.L. B. ST.

4<sup>th</sup> St. N. of K

35

+20

+40

+65

+90

36+15

+40

+65

+90

37+15

+40

+65

+90

38+15

+40

+60

+80

39

+20

+45

+70

45.00

53.00

B. ST.

N.L. B. ST.

S.L. A. ST.

38+80

A. ST.

N.L. A. ST.

4th St. N. of K

39+95

40+20

+45

+70

+95

41+20

+45

+70

+95

70.5

42+20

+40

+60

+80

43

SL Ash

ASH

NLASH



45

H<sup>2</sup> S<sup>2</sup> N of K<sup>2</sup>

40+50

41

+50

42

+50

43

42+50

H<sup>2</sup> S<sup>2</sup> N of K<sup>2</sup>

3<sup>th</sup> St N. of Ash

1

+50

2

+50

3

+50

4

+50

5

+50

6

+50

7

+50

8

+50

2.11

1.11

8.11

J. 11

3<sup>d</sup> Street W of Ash

38+40	65.00
+60	65.74
+80	66.48
39	67.22
+20	67.96
+45	68.88
+70	69.80
+95	70.73
40+20	71.65
+45	72.58
+70	73.50
+95	74.42
41+20	75.35
+45	76.27
+70	77.20
+95	78.12
42+20	79.04
+40	79.78
+60	80.52
+80	81.26
43	82.00

Ash

$$\frac{36957}{100}$$

Beech

30 S. N. of Ash

43+25	83.34
+50	84.74
+75	86.14
44	87.53
+25	88.91
+50	90.29
+75	91.67
45	93.05
+25	94.43
+50	95.81
+75	97.20
46	98.58
+20	99.64
+40	100.79
+60	101.89
+80	103.00
47+05	103.13
+30	103.26
+55	103.89
+80	103.53
48+05	103.66

Cedar

X

$$\begin{array}{r} 52.263 \\ \hline 100 \end{array}$$

$$\begin{array}{r} 52.263 \\ \hline 100 \end{array}$$

3rd St. N. of

48+30	103.79
+55	103.92
+80	104.05
49+05	104.18
+30	104.31
+55	104.45
+80	104.58
50	104.68
+20	104.79
+40	104.89
+60	105.00
+85	107.17
51+10	
+35	
57+60	
+85	
52+10	
+35	
+60	
+85	
53+10	

Date

$$\begin{array}{r} 101 \\ \hline 5263 \end{array}$$

X

$$\begin{array}{r} 108 \\ \hline 9998 \end{array}$$

6<sup>th</sup> St. N. of L.

53+35

+60

131.00

+80

131.50

54

132.00

Elm

85/150

+20

132.50

+40

133.00

A

X

+65

+90

55+15

+40

+65

+90

56+15

56+40

+65

+90

57+15

+40

157.00

+60

157.25

+80

157.50

Fir

125/150

58

157.75

7

3<sup>d</sup> St N. of Ash

Sta El End Cut

58+20

158.00

X

+45

+70

+95

59+20

+45

1.20

+70

+95

60+20

+45

+70

+95

61+20

173.50  
S line Grape Flushtank X

+

5+20

+45

6+20

+45

7+20

8+20

8+20

201  
1991.5

7<sup>th</sup> St. N. of L

El Grd Cuts

5 8+60

9+10

+60

10+10

5 +60

11+10

+60

2 12

14.14

I St X

6 +40

+90

13+40

+90

6 14+40

+90

15+40

+90

H St

6 16+40

+90

17+40

+90

8 18+40



7<sup>th</sup> St. N. of L

18+90

19+40

+80

G St

20+20

+70

21+20

+70

22+20

+70

23+20

+60

F St

24

+50

25

+50

26

+50

27

+40

E St

27+80

28+30

7th St. N. of L.

28 + 80

29 + 30

+ 80

30 + 30

+ 80

31 + 20

+ 60

D St

32 + 10

+ 60

33 + 10

+ 60

34 + 10

+ 60

35

C St

+ 40

+ 90

36 + 40

+ 90

37 + 40

+ 90

38 + 40

7<sup>th</sup> St. N. of L

38+80

B St.

39+20

+70

40+20

+70

41+20

+70

42+20

+60

A St.

43

+50

44

+50

45

+50

46

S line of Ash-

8th St. N. of L

- 1 +50
- 2 +50
- 3 +50
- 4 +40
- +80
- 5 +30
- +80
- 6 +30
- +80
- 7 +30
- +80
- 8 +20

L. St

K St

J St

8th St. N. of L

8+60

9+10

+60

10+10

+60

11+10

+60

12+10

+40

+90

13+40

+90

14+40

+90

15+40

+90

16+40

+90

17+40

+90

18+40

I St

H St

71

8th St. N. of L

36

18+90

19+40

+80

G St

20+20

+70

21+20

+70

22+20

+70

23+20

+60

F St

24

+50

25

+50

26

+50

27

+40

+80

E St

28+30

8th St. N. of L

28+80

29+30

+80

30+30

+80

31+20

+60

32+10

+60

33+10

+60

34+10

+60

35

+40

+90

36+40

+90

37+40

+90

38+40

D &amp; S

C &amp; S

8<sup>th</sup> St. N. of L

38+80

B St

39+20

+70

40+20

+70

41+20

+70

42+20

+60

43

A St

+50

44

+50

45

+50

46

S. line Ash St



77.

9<sup>th</sup> St. N. of I.

39

L St

1

+50

2

+50

3

+50

4

+40

+80

5 + 30

+80

6 + 30

+80

7 + 30

+80

8 + 20

K. St.

J. St.

9<sup>th</sup> St. N. of L

8+60

9+10

+60

10+10

+60

11+10

+60

12

+40

+90

13+40

+90

14+40

+90

15+40

+90

16+40

+90

17+40

+90

18+40

I St

H St

9<sup>th</sup> St. N. of L

18+90

19+40

+80

20+20

+70

21+20

+70

22+20

+70

23+20

+60

24

+50

25

+50

26

+50

27

+40

+80

28+30

G St.

F St.

E St.

9th St. N. of L.

28+80

29+30

+80

30+30

+80

31+20

+60

32+10

+60

33+10

+60

34+10

+60

35

+40

+90

36+40

+90

37+40

+90

38+40

D St.

C St.

9th St. N. of L

38+80

B St

39+20

+70

40+20

+70

41+20

+70

42+20

+60

A St

43

+50

44

+50

45

+50

46

+40

Ash

47+80

47+30

+80

48+30

9<sup>th</sup> St. N. of Z.

48+80

49+30

+80

50+20

+60

51+10

+60

52+10

+60

53+10

+60

54

+40

+90

55+40

+90

56+40

+90

Beech

Cedar

10th St. N. of L

1  
+50  
2  
+50  
3  
+50  
4  
+40  
+80  
5 +30  
+80  
6 +30  
+80  
7 +30  
+80  
8 +20

L St

K St

J St

10<sup>th</sup> St. N. of L

8+60

9+10

+60

10+10

+60

11+10

+60

12

I St

+40

+90

13+40

+90

14+40

+90

15+40

+90

H St

16+40

+90

17+40

+90

18+40



10<sup>th</sup> St. N. of L

18+90

19+40

+80

G St

20+20

+70

21+20

+70

22+20

+70

23+20

+60

F St

24

+50

25

+50

26

+50

27

+40

E St

+80

28+30

95

10<sup>th</sup> St. N. of L

43

28+80

29+30

+80

30+30

+80

31+20

+60

D St

32+10

+60

33+10

+60

34+10

+60

35

C St

+40

+90

36+40

+90

37+40

+90

38+40

97

10<sup>th</sup> St. N. of L

38+80

B St

39+20

+70

40+20

+70

41+20

+70

42+20

+60

A St

43

+50

44

+50

45

+50

46

+40

Ash

+80

47+30

+80

48+30

3680

~~4060~~

4440

4820

5400

~~5780~~

6860

2  
3  
4

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

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

Published by Edward Denny & Co., Stationers, Drawing Materials,  
Mathematical Instruments, Etc., San Francisco.