

Transit Notes

Front - Arctic

SEYERAGE

658

9

TRANSIT

F.B. 658

AMERICAN

658

showing the difference of latitude and
aparture 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.....	40	37.....	86½	57.....	133
18.....	42½	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

+ 37⁵ Lat. centre line F + Arctic

3

+ 50

2

+ 50

1

+ 50

0

+ 37⁵ Lat. centre line G + Arctic

3

+ 50

2

+ 50

1

+ 50

0

+ 50 Lat. centre line H + Arctic St

July 15th 1887

36⁴

Centre line of Arctic St

36⁴

36⁴

+50

1

+50

0

+62⁵

3

+50

2

+50

1

+50

0

+37⁵

3

+50

2

+50

1

+50

0

Int centre line II + Arctic

Int Centre line E + Arctic

Centre line of Arctic

3'6" Δ

+ 50

2

+ 50

1

+ 50.

0

+ 40

Int centre line B + arctic

3

+ 50

2

+ 50

1

+ 50

0

3 + 10

Int centre line S + Arctic

+ 70

+ 50

3

Centre line of Arctic

3' 4' 4'

3' 4'

+50

0

+40

3

Int centre line Beech & Arctic

+50

2

+50

1

+50

0

+40

3

Int centre line Ash & Arctic

+50

2

+50

1

+50

0

+40

3

Int centre line Hand Arctic

Centre line of Arctic

4

+50

2

+50

4

+50

0

+40

3

+50

2

+50

1

+50

0

+40

3

+50

2

+50

1

Int centre line Rato

Int centre line Cedar St.

4' angle 90° 51' Left
4' 4'

Centre line of Arctico

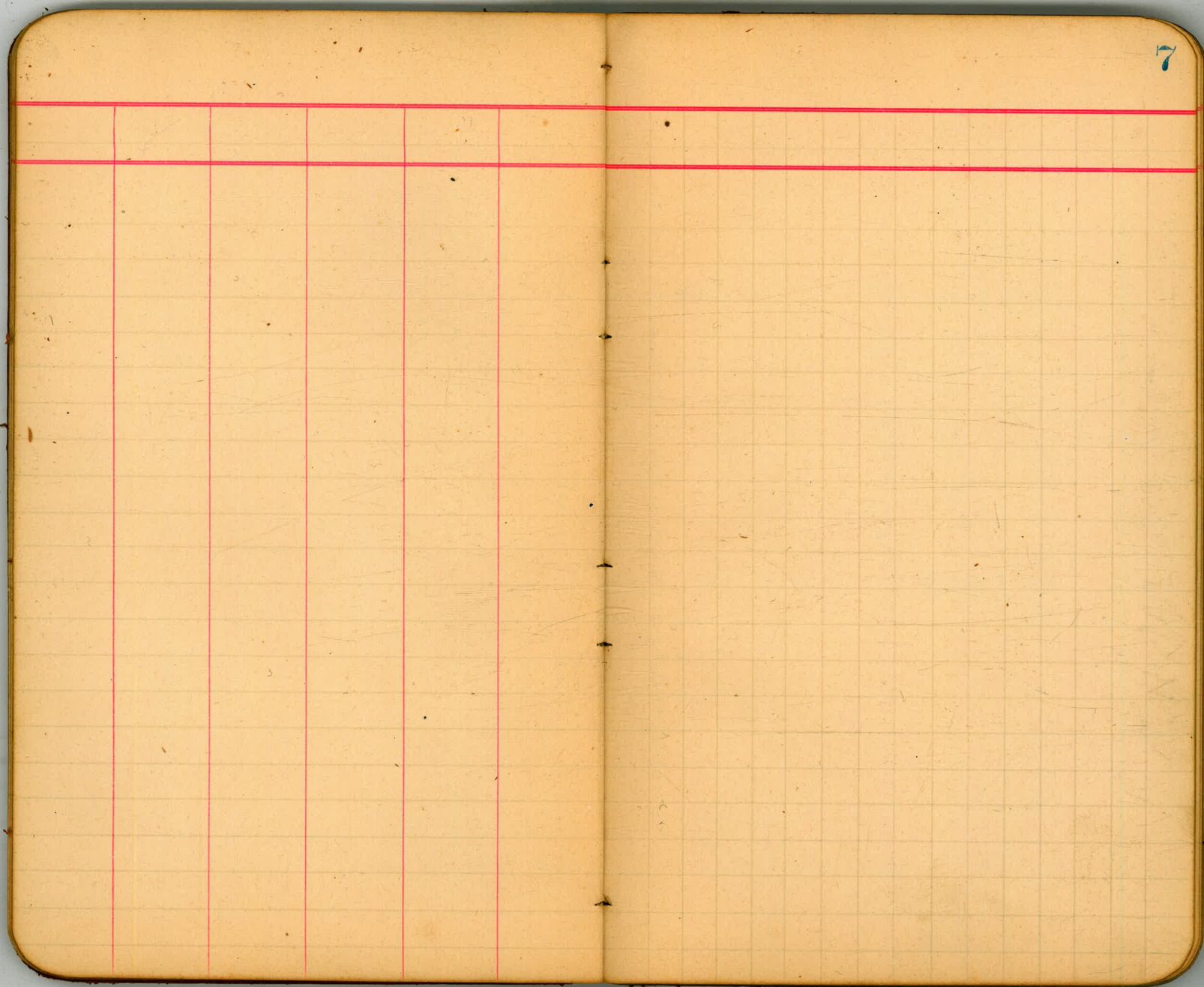
+ 52°

+ 50

3

East South line of Fir St at its Int.
with Arctic





+50

0

+375

3

+50

2

+50

V

+50

0

+375

3

+50

2

+50

1

+50

0

+50

Int. centre line F and India

From Foresight on P. Δ 3' Δ
 3' East from centre line
 of H. with its intersection
 with India, reversed
 and set pt at int. of
 H. & India

Int. centre line G & India

Centre line India H

3' Δ 3' Δ

Int centre line to St.

+40

+50

2

+50

2

+30

+62.5

5

+50

2

+50

1

+50

0

+37.5

3

+50

2

+50

1

+50

1

+50

1

+50

1

+50

1

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+50

1

+50

1

+50

+50

2

+50

1

+50

0

+40

3

+50

2

+50

1

+50

0

+40

3

+50

2

1

+50

0

Int centre line A St.

Int centre line B St.

Centre line India St.

+50

0

+40

Int centre line Cedar St

100

+50

12

+50

1

+50

0

+40

Int centre line Bush St

3

+50

2

+50

1

+50

0

+40

Int centre line of Ash St

20

2.8

Centre line Indiana St

0

2.1

1

+50

0

+88°

Int centre line Fir St.

+48°

Int south property line of
Fir St.

4

+50

3

+50

2

+50

1

+50

0

Int north property line of
Date St

+40

3

+50

2

+50

1

Centre line of Fir St.

3' Angle 10° 15' Left

3' Angle 9° 50' Left

+40

Int centre line Ivy St.

3

+50

2

+50

1

+50

0

+40

Int centre line Hawthorne St.

3

+50

2

+50

1

+50

0

+40

Int centre line Grape St.

3

+50

2

+50

3'

Centre line India St.

3'

3'

+40 Int centre line Juniper St. -

3

+50

2

+50

1

+50

0

△ 0.7 △

Columbia St.

+375 Int centre line of G. St.

4 Int. South line of G. St.

+50

3

+50

2

+50

1

North line of H St. int. Columbia St.

0

Centre line H St.

Running North from H St.

+38

2+25

+45

+50

1

Int. property line S. side of H

0

Centre line of H at its intersection

Sta.

with Columbia -

Running South on Columbia

4

+25

Int North line of E St.

12

+845

Int centre line E. St.

+50

Int. South line E St.

-11

-50

10

+50

9

+50

Int. North line F St.

+125

Int centre line F St.

8

+75

Int South line F St.

+50

2

+50

6

+50

5

+75

Int North line of G St.

+50

20

Int North line of C St.

+50

1450

+20

Int South line of C St.

19

+50

18

+50

17

+50

16

+8¹/₂

Int. centre line D St.

+50

+25

15

+50

14

+50

13

12+50

A J' A

A J' A

9

29

+50

28

+50

+50

+20

34

+80

+50

26

+50

25

+50

34

+80

+40

23

+50

22

+50

21

Int North line of A St.

Int centre line of A St.

Int South line of A St.

Int North line of B St.

Int centre line of B St.

Int South line of B St.

Centre line of Robertson St.

+50

6

+50

5

+50

Int North line of Buck St.

+50

+50

Int centre line of Buck St.

4

Int South line of Buck St.

+50

5

+50

Int South line of Buck St.

3

+50

1

Int North line of Ash St.

Sta.

Running North from Ash St.

+50

Int South line of Ash St.

+50

50

29+50

Centre line of Columbus St.

15

+ 50

14

+ 50

13

+ 50

+ 58.5 Int North line of Data St.

12

+ 50

+ 50

11

+ 50

10

+ 50

9

+ 50

+ 50

+ 20

8

+ 80

+ 50

Int North line Cedar St.

Int South line of Data St.

Int centre line Cedar St.

Int South line Cedar St.

Centre line of Cedar St.

3' angle 90° 55' left

3'

+50

1 North line Grape St

Running North from Grape St.

4

Int North line Fir St.

+50

3

+50

2

+50

1 Int. South line of Grape St.

Running South from Grape St.

+835

Int South line of Fir St.

+50

17

+50

16

15+50

Centre line of Waterbury St.

3' 3'

3'

3'

4 North line Ivy St.

2'

+50

1 South line Juniper

Running South from Side of Juniper

+80 South line Ivy St.

+50

7+

+50

6

+50

5

+80 North line Hawthorne St.

+50

+40

Centre of Hawthorne

4

Int South line Hawthorne St.

+50

3

+50

2

Centre line Liberty St.

9
+50 North line of F^o St.

8
+75 South line F^o St.
+50

7
+50

6
+50

5
+75 North line of G^o St.
+50

4
+50 South line G^o St.

3
+50

2
+50

1 North line H St.

0 Center of H St.

Running North from H St.

Running line State St

△ F^o △

△ W. △

+ 50

18

+ 50

17

+ 50

North line of W St.

16

+ 50

+ 45

South line of W St.

15

+ 50

14

+ 50

13

+ 50

+ 25

North line of E St.

12

+ 50

South line of E St.

11

+ 50

10

9 + 50

+ 20 centre line A' St.

27

+ 80 South line A' St.

+ 50

26

+ 50

25

+ 50

24

+ 80 North line B St.

+ 50

23 South line B St.

+ 50

22

+ 50

21

+ 50

20 North line of C St.

+ 60 Centre line of C St.

+ 50

+ 20 South line C St.

19

+ 80 North line Beach St.

+ 50

+ 40

Centre line Beach St.

4

South line Beach St.

+ 50

3

+ 50

2

+ 50

1

North line Ash St.

0 40

Centre line Ash St.

Extending North from Ash St.

+ 60 East South line Ash St.

+ 50

30

+ 50

29

+ 50

28

+ 60

North line A. St.

27+ 50

+50

+58

12

+60

+50

11

+50

10

+50

9

+60

+50

+70

8

+80

+50

7

+50

6

+50

5

North line Gate St.

South line Gate St.

North line Cedar St.

Center line Cedar

South line Cedar St.

Avg. 90 47/100 left.

22

+50

21

+50

20

+50

19

+80⁴

South line Fir St

+50

1880⁴

South line Jasper St

+50

17

+50

16

+50

Centre line Elm St

+50

15

+50

14

+50

13

Angle 10° 17 1/2 Left

+50

4

North line Ivy St.

+50

3

+50

2

+50

1

South line of Juniper St.

Running North from S. line Juniper St.

+40

Int South line Hawthorne

26

+50

25

+50

24

+50

23

+99⁵

Int centre line of Grape St.

22 +50

+ 55

North line C St.

+ 50

4

South line C St.

+ 50

3

+ 50

2

+ 50

1

North line of H St.

0

Centre of H St.

Running North on Union St. from centre H St.

+ 80

North line Hawthorne St.

+ 50

7

+ 50

6

+ 50

5

+ 80

South line Ivy St.

Union

31

14

+ 50

13

+ 50

+ 25

North line E 5th

12

+ 50

South line E 5th

11

+ 50

10

+ 50

9

+ 50

North line F 5th

8

+ 50

South line F 5th

+ 50

7

+ 50

6

+ 50

5

+ 80 North line B St.

+ 50

23 South line B St.

+ 50

22

+ 50

21

+ 50

20 North line C St.

+ 50

+ 20 South line C St.

19

+ 50

18

+ 50

17

+ 50 North line D St.

16

+ 50

+ 25 South line D St.

15

14 + 50

+60

South line Ash St.

+50

30

+50

29

+50

28

+60

North line Ash St.

+50

27

+80

North line Ash St.

+50

26

+50

25

+50

24

+60 North line Cedar St.

+50

8

+80 North line Cedar St.

+50

7

+50

6

+50

5

+80 North line Beech St.

+50

4

North line Beech St.

+50

3

+50

2

+50

1

x

North line Ash St.

40

0

-Running North on Union St. Ash St.

+50

14

+50

+027

16

+50

15

+50

14

+50

13

+50

+368

12

+50

+50

11

+50

10

+50

9

Center Line Below St

North Line Data St

South Line Data St

spin

spin

North 90° 51' Left

+ 50

26

+ 50

+ 25

Turning North on Brandt Ave

25

+ 50

+ 0 1/2

Centre line Grape St

24

+ 50

23

+ 50

22

+ 50

21

+ 50

20

+ 75 3/4

South line Fire St.

+ 50

19

+ 50

18

Angle 19° 50' Right

Angle 10° 21' Left

+84 Int. South line of Juniper St

+50

34

+50

33

+50

32

+44

Center line Long St

31

+50

30

+50

29

+50

+62⁵

North line Hawthorne

28

+62⁵

Center line Hawthorne St

+50

27

9

+ 60.
+ 50

South line Hawthorne St.

8

+ 80
+ 50

North line Hawthorne

7

+ 50

6

+ 50

5

+ 80
+ 50

South line Day St.

4

+ 50

North line Day St.

3

+ 50

2

+ 50

1

South line Juniper St.

Running South on Union from South line
Juniper

+ 80 North line G. St.

+ 50

+ 40 Centre line G. St.

8 South line G. St.

+ 50

7

+ 50

6

+ 50

5 North line H. St.

+ 50

4 South line H. St.

+ 50

3

+ 50

2

+ 50

1 North line I. St.

0⁴³ Centre line I. St.

Running North on Front St. from
Centre of I. St.

18

+50

17

+50

16

+98

Centre C. St.

+50

15

+50

14

+50

13

+60

North line H. St.

+50

12

+80

South line F. St.

+50

11

+50

10

+50

9

+79 North line B. St.

+50

+38⁸ Centre line B. St.

27

+50

26

+50

25

+50

24

+98

North line C.

+50

+18

South line C.

23

+50

22

+50

21

+50

+48

North line of D. St.

20

+50

+23

South line D. St.

19

18+50

+59 South line Ash St.

+50

34

+50

33

+50

32

+59 North line A St.

+50

+19 Centre line A St.

31

+79 South line A St.

+50

30

+50

29

+50

28

+60 North line Cedar St.

+50

8

+80 South line Cedar St.

+50

7

+50

6

+50

5

+80 North line Beech St.

+50

4

South line Beech St.

+50

3

+50

2

+50

1

North line Ash St.

0 ^{1/2}

Centre Ash St.

Running North from Ash St.
on Front St.

+50

17

+50

16

+81³

Centre line Elm St.

+50

15

+50

14

+50

13

+50

+01

Centre line Gate St.

12

+60

South line Gate St.

+50

11

+50

10

+50

9

+24 Centre line Hawthorne St

27

+50

26

+50

25

+50

24

+50

23

+50

22

+50

21

+50

20

+61⁸ Centre line Fir St

+50

19

+50

18

Property lines not defined

35

+50

34

+50

33

+50

32

+50

31

+50

30

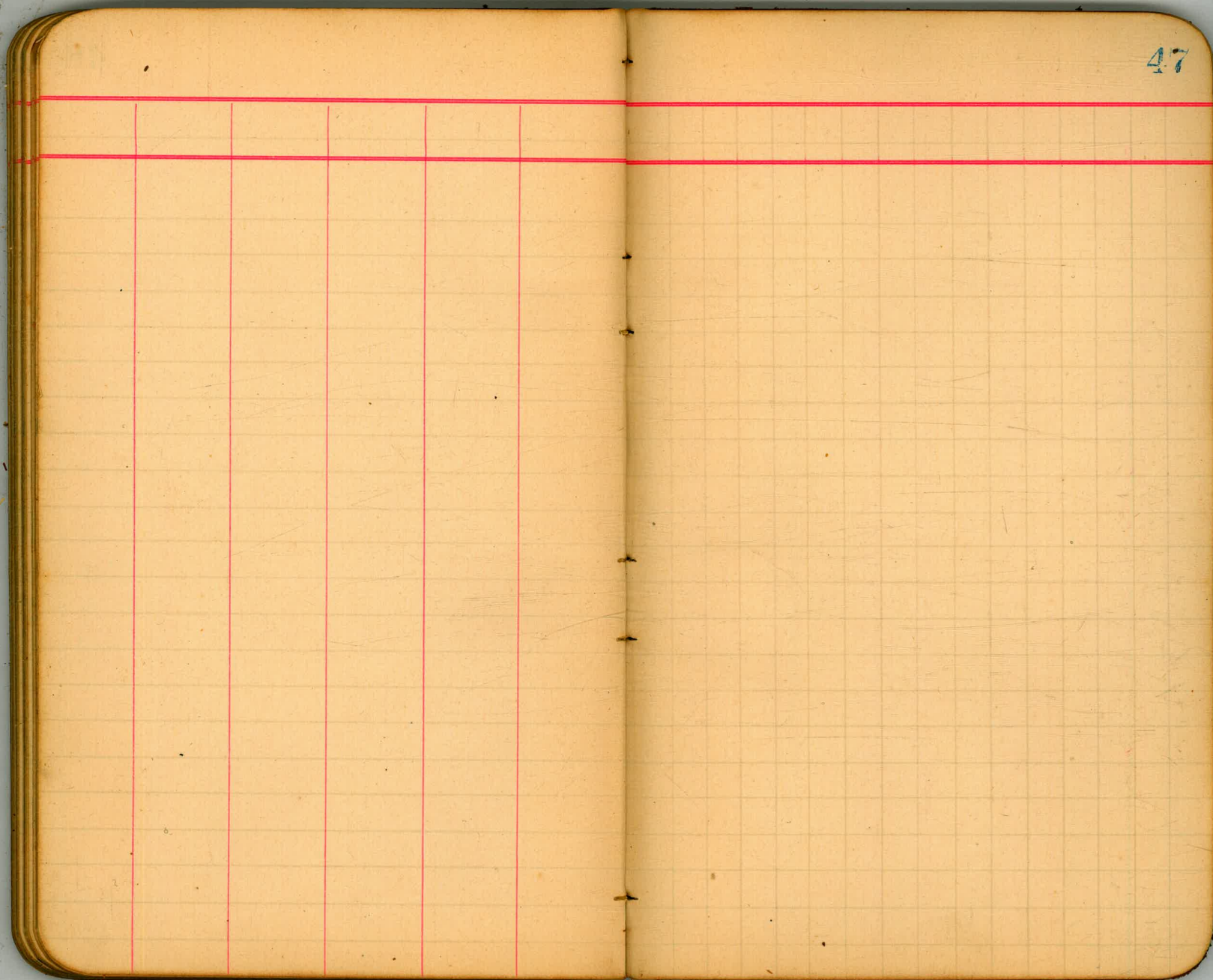
+50

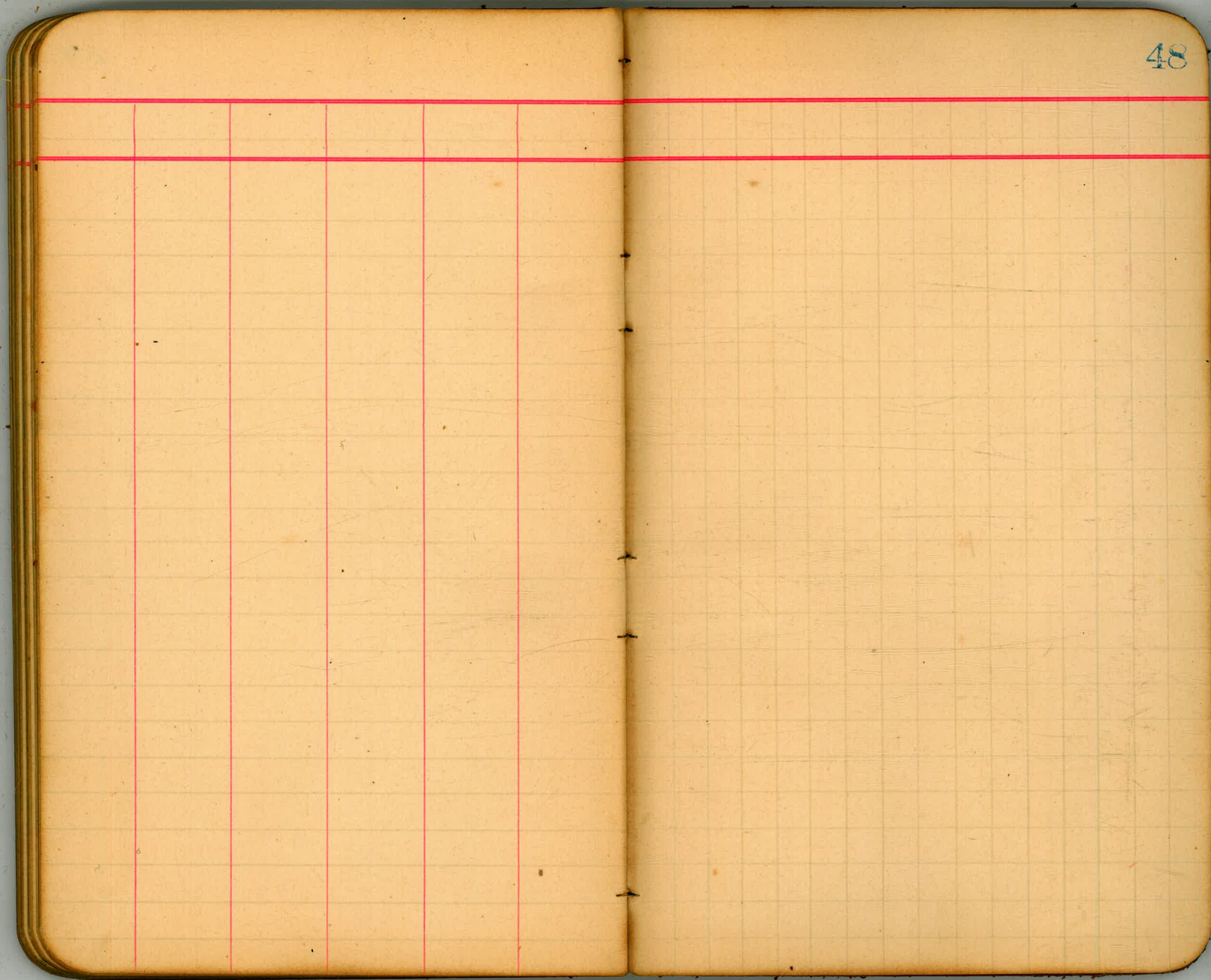
29

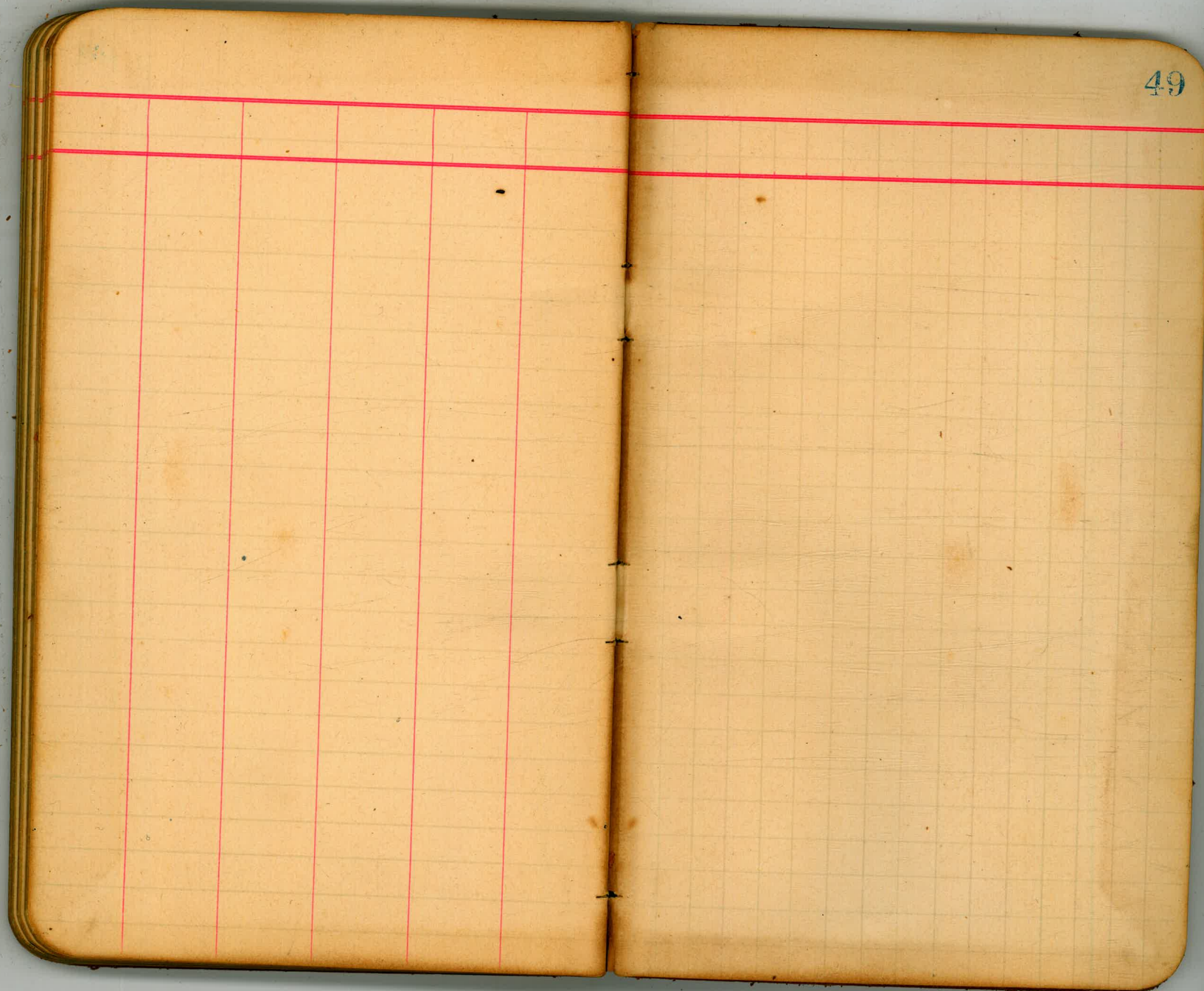
+50

28

+50







Rad.	Dep Angle	Chord	Arc
75'	4° 00'	10.46	10.47
70'	4° 15'	10.37	10.385
65'	4° 30'	10.20	10.21
60'	5° 00'	10.46	10.47
55'	5° 15'	10.07	10.08
50'	6° 00'	10.45	10.47
45'	6° 30'	10.19	10.21
40'	7° 30'	10.44	10.47
35'	8° 15'	10.04	10.08
30'	10° 00'	10.42	10.47
25'	12° 00'	10.40	10.47

$$\begin{array}{r}
 10.47 \\
 11 \\
 \hline
 115.17 \\
 2.61 \\
 \hline
 117.78
 \end{array}$$

$$\begin{array}{r}
 15.60 \\
 80 \\
 16.40 \\
 200 \\
 \hline
 1940
 \end{array}$$

$$4 \times 10.46 = 41.84$$

$$\begin{array}{r}
 4 \times 10.46 \\
 2.615
 \end{array}$$

$$10.46$$

$$\begin{array}{r}
 9 \\
 \hline
 94.14
 \end{array}$$

$$\begin{array}{r}
 10.46 \\
 11 \\
 \hline
 115.06 \\
 2.615 \\
 \hline
 117.675
 \end{array}$$

Degrees.

ls,

58
57
56
55
54
53
52
51
50
49
48
47
46
45

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

Degrees.	DEGREES.		¼ DEGREE.		¼ DEGREE.		¼ DEGREE.		Degrees.
	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	
0			100.00	0.44	100.00	0.87	99.99	1.31	88
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	90
3	99.86	5.23	99.84	5.67	99.81	6.10	99.79	6.54	91
4	99.76	6.98	99.73	7.41	99.69	7.85	99.66	8.28	92
5	99.62	8.72	99.58	9.15	99.54	9.58	99.50	10.02	93
6	99.45	10.45	99.41	10.89	99.36	11.32	99.31	11.75	94
7	99.25	12.19	99.20	12.62	99.14	13.05	99.09	13.49	95
8	99.03	13.92	98.97	14.35	98.90	14.78	98.84	15.21	96
9	98.77	15.64	98.70	16.07	98.63	16.50	98.56	16.93	97
10	98.48	17.36	98.40	17.79	98.33	18.22	98.25	18.65	98
11	98.16	19.08	98.08	19.51	97.99	19.94	97.90	20.36	99
12	97.81	20.79	97.72	21.22	97.63	21.64	97.53	22.07	100
13	97.44	22.50	97.34	22.92	97.24	23.34	97.13	23.77	1
14	97.03	24.19	96.92	24.62	96.81	25.04	96.70	25.46	2
15	96.59	25.88	96.48	26.30	96.36	26.72	96.25	27.14	3
16	96.13	27.56	96.00	27.98	95.88	28.40	95.76	28.82	4
17	95.63	29.24	95.50	29.65	95.37	30.07	95.24	30.49	5
18	95.11	30.90	94.97	31.32	94.83	31.73	94.69	32.14	6
19	94.55	32.56	94.41	32.97	94.26	33.38	94.12	33.79	7
20	93.97	34.20	93.82	34.61	93.67	35.02	93.51	35.43	8
21	93.36	35.84	93.20	36.24	93.04	36.65	92.88	37.06	9
22	92.72	37.46	92.55	37.86	92.39	38.27	92.22	38.67	10
23	92.05	39.07	91.88	39.47	91.71	39.87	91.53	40.27	11
24	91.35	40.67	91.18	41.07	91.00	41.47	90.81	41.87	12
25	90.63	42.26	90.45	42.66	90.26	43.05	90.07	43.44	13
26	89.88	43.84	89.69	44.23	89.49	44.62	89.30	45.01	14
27	89.10	45.40	88.90	45.79	88.70	46.17	88.50	46.56	15
28	88.29	46.95	88.09	47.33	87.88	47.72	87.67	48.10	16
29	87.46	48.48	87.25	48.86	87.04	49.24	86.82	49.62	17
30	86.60	50.00	86.38	50.38	86.16	50.75	85.94	51.13	18
31	85.72	51.50	85.49	51.88	85.26	52.25	85.04	52.62	19
32	84.80	52.99	84.57	53.36	84.34	53.73	84.10	54.10	20
33	83.87	54.46	83.63	54.83	83.39	55.19	83.15	55.56	21
34	82.90	55.92	82.66	56.28	82.41	56.64	82.16	57.00	22
35	81.92	57.36	81.66	57.71	81.41	58.07	81.16	58.42	23
36	80.90	58.78	80.64	59.13	80.39	59.48	80.13	59.83	24
37	79.86	60.18	79.60	60.53	79.34	60.88	79.07	61.22	25
38	78.80	61.57	78.53	61.91	78.26	62.25	77.99	62.59	26
39	77.71	62.93	77.44	63.27	77.16	63.61	76.88	63.94	27
40	76.60	64.28	76.32	64.61	76.04	64.94	75.76	65.28	28
41	75.47	65.61	75.18	65.93	74.90	66.26	74.61	66.59	29
42	74.31	66.91	74.02	67.24	73.73	67.56	73.43	67.88	30
43	73.14	68.20	72.84	68.52	72.54	68.84	72.24	69.15	31
44	71.93	69.47	71.63	69.78	71.33	70.09	71.02	70.40	32
45	70.71	70.71							33
Degrees.	DEGREES.		¼ DEGREE.		¼ DEGREE.		¼ DEGREE.		Degrees.
	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	

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