

317

400  
LEVEL

F.B.317



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

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

317

MICROFILMED

DEC 7 1964

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



cross-section of Laurel (80')  
w. line of Union to E. line of Laurel

W. line of Union

			Bm
431	120.57	1162.6	Lt. Keltch
Sl		11	119.5
Sl		1.0	119.6
✓		1.2	119.4
6		1.4	119.2
✓		2.0	118.6
Sl		3.1	117.5
7.2		4.6	116.0

25' W. of Union

2.2		2.9	110.7
Sl		8.1	112.5
✓		7.1	113.5
6		5.9	114.7
7		5.4	115.2
Sl		5.7	115.5
5.2		4.2	116.3

12057

	50'	W of	Union	
SL			91	111.5
bl			92	111.4
"			99	110.7
b			104	110.2
"			117	108.9
bl			130	107.6
RL			153	105.3
TP	0.88	10903	1244	104.5
	75'	W of	Union	
RL			100	99.0
bl			81	100.9
"			62	102.8
b			52	103.8
"			44	104.6
bl			35	105.5
SL			27	106.3

10903

Larch

	100'	W of	Union	
SL			71	101.9
bl			85	100.5
"			89	100.1
b			102	98.8
"			118	97.2
bl			133	95.7
RL			137	95.3
TP	0.77	9820	1160	97.43

POSTED

	125'	W of	Union	
RL			91	89.1
bl			78	90.4
"			66	91.6
b			55	92.7
"			42	94.0
bl			28	95.4
SL			20	96.2

2



9820

150 w of Univ

S2 5.9 92.3

bl 80 90.2

y 85 89.7

b 90 89.2

u 105 87.7

bl 120 87.0

n2 128 85.4

TP 0.53 88.35 1038 8782

157 w of Univ

n2 5.4 83.0

158 w of Univ

n2 80 80.4

88.35

same

3

175' w of Univ

n2 88 79.6

bl 83 80.1

+8 77 80.7

y 83 83.1

b 27 85.7

u 17 86.7

bl 20 86.4

S2 1.1 87.3

198' w of Univ

S2 3.2 85.2

bl 200' 4.9 83.5

+6 5.2 83.2

bl 8.4 80.0

200 w of

Univ = Eddie Stone (75)

S2 7.4 81.0

bl 7.9 80.5

y 8.4 80.0

y 8.4 81.0

y 10.3 78.1

bl 12.5 75.9

n2 14.7 73.7



88.35

E 1/4 of Stab 1A

22	173	71.1
24	137	74.7
4	114	77.0
6	97	78.7
7	84	80.0
24	85	79.9
S2	82	80.2

E 1/4 of Stab 1A

S2	94	79.0
24	11.0	77.4
4	11.0	77.4
6	123	76.1
TP	0.50	88.35
4	2.8	73.5
24	4.7	71.9
22	6.8	69.5

76.30

Soured

4

Center of Stab 1A

22	8.8	67.5
24	7.6	68.7
4	5.8	70.5
6	3.0	73.3
7	1.4	74.9
24	0.9	75.4
S2	0.0	76.3

N 1/4 of Stab 1A

S2	2.6	73.7
24	3.4	72.9
4	4.7	71.9
24	7.3	69.0
4	8.3	68.0
24	11.5	64.8
22	12.4	63.9



7630

	W of	State	
N2		15.5	60.8
tl		10.2	63.1
"		11.4	64.9
b		9.7	66.6
y		7.6	68.7
tl		6.4	69.9
tl		9.0	67.3
SR		3.6	72.7

W side of State st

SR		5.0	71.3	
tl		7.6	68.7	
y		11.4	64.9	
b		12.4	63.9	
TP	120	6637	11.2	65.7
tl		1.4	65.0	
b		3.7	60.7	
SR		7.5	58.9	
BR		7.19	59.20	

on side  
W of  
State  
st

6637

same

5

	25'	W of	State	st
N2			11.9	54.5
tl			10.7	55.7
y			9.4	57.0
b			9.0	57.4
y			5.4	61.0
tl			4.2	62.2
SR			2.2	64.2

33' W of State

SR			5.0	61.4
	37'	W of	State	
SR			9.0	57.4
	43'	W of	State	
SR			5.5	60.9



		6637	
	50' W of	State	st
S2		66	59.8
+10'		14.0	52.4
bl		10.3	56.1
+6'		13.0	53.4
4		11.0	55.4
6		13.2	53.2
TP	025	5444	12.18 54.19
7		4.3	50.1
bl		5.7	48.7
22		8.0	46.4
	75' W of	State	st
22		13.8	39.1
bl		14.0	40.4
4		13.8	40.6
6		11.5	42.9
7		8.5	45.9
bl		5.7	50.7
S2		+05	54.9

		5444		Survey	
	100' W of	State	st		
S2		5.7	48.7		
bl		10.0	44.4		
	120' W of	State	st	POSTED	
S2		7.8	46.6		
bl		11.9	42.5		
TP	004	4203	12.45	41.99	
	100' W of	State	st		
S <sup>1</sup> / <sub>4</sub>		7.7	40.3		
6		4.0	38.0		
4		4.5	37.5		
bl		5.0	37.0		
22		6.1	35.9		
	120' W of	State	st		
S <sup>1</sup> / <sub>4</sub>		4.0	38.0		
6		5.4	36.6		



5203

125' W of Stake #

rd	10.6	31.4
ll	8.0	34.0
"	7.0	35.0
b	6.6	35.4
"	6.3	35.7
+10	5.7	36.3
ll	8.5	32.5
SL	8.0	34.0

130 W of Stake #

rd	13.6	26.4
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140' W of Stake #

rd	8.6	33.4
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4203

Stake

150' W of Stake #

SL	9.2	32.8
ll	9.0	33.0
"	7.5	34.5
b	8.5	33.5
"	9.1	32.9
7.5	16.2	25.8
46.4	18.0	27.0
+4	9.5	32.5
rd	6.8	35.2

175' W of Stake #

rd	2.8	39.2
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ll	8.3	33.7
----	-----	------

"	9.4	32.6
---	-----	------

78	10.7	31.3
----	------	------

b	17.0	25.0
---	------	------

"	11.3	30.7
---	------	------

ll	9.0	33.0
----	-----	------

SL	9.4	32.6
----	-----	------

4203

200' W = E line of Columbia

82 92 32.8

66 96 32.4

+8 17.0 25.0

4 11.5 30.5

6 96 32.4

4 86 33.4

66 **POSTED** 73 34.7

72 1.8 40.2

79 8.96 33.7

sent center  
of Columbia  
River

Intersection on Page 12

Continued on Page 45



Cross-section of Columbia (75')  
 N side of Kalmia to Palm St  
 N side of Kalmia

6669

Columbia

9

Bm	296	6669	6373	SW cor Kalmia Palmer St	WA	127	54.0
W2			85	58.2	W	127	54.0
W			78	58.9	W	121	54.6
W			60	60.7	W	119	54.8
W			48	61.9	W	115	55.2
W			44	62.3	W	101	56.6
W			37	63.5	W	63	60.4
W			17	65.0	WP	429	59.30

POSTED

POSTED

75' N of Kalmia

75' N of Kalmia

W			32	63.5	W	00	59.30
W			59	60.8	W	44	54.9
W			66	60.1	W	72	52.1
W			71	59.6	W	80	51.3
W			81	58.6	W	87	50.6
W			102	56.5	W	96	49.7
W2			107	56.0	W2	96	49.7

5930

100' n of Kalmia

nr	123	47.0
bl	106	48.7
"	105	48.8
1	103	49.0
4	92	50.1
6	70	52.3
92	00	59.3

125' n of Kalmia

92	708	60.3
bl	62	53.1
4	91	50.2
6	110	48.3
7	120	47.3
92	122	47.1
nr	102	46.1

TP 10.74 5776 12.28 47.02

on lower side 2 end

5776

Columbia

10

150' n of Kalmia

nr	129	45.4
bl	120	45.8
"	118	46.0
1	116	46.2
4	102	47.6
bl	60	51.8
92	710	58.8

175' n of Kalmia

92	21	55.7
bl	80	49.8
4	114	46.4
6	125	45.3
7	127	43.1
bl	132	44.6
nr	138	44.0

TP 369 49.05 12.40 45.26

Pipe





3746

250' n of Kalamia

w2		10.0	27.5
tl		7.0	28.5
y		4.0	33.5
b		0.0	37.5
y		+2.0	39.5
tl		+3.0	40.5
+1		6.0	31.5
bl		6.6	30.9

258' n of Kalamia

w2		13.5	24.3
tl		13.5	24.2
y		7.0	30.5
b		5.5	32.0

3746

Kalamia

12

275' n of Kalamia

tl		7.2	30.3
tl		6.0	31.5
y		4.8	32.7
b		6.4	31.1
+4'		13.0	24.5
y		13.5	24.3
tl		7.2	30.3
w2		6.5	31.0

300' n = Salina Laurel 27(80')

w2		3.7	33.8
tl		6.5	31.3
b		6.5	31.0
b		6.4	31.1
y		13.0	24.5
+10		13.0	24.5
tl		5.8	21.7
tl		4.7	22.8



37.46

Sbb

Same

EL	5.4	32.1
+2	12.0	25.5
bb	12.0	25.5
+6	11.0	26.5
4	5.8	31.7
6	5.5	32.0
7	5.7	31.8
bl	5.0	32.5
WR	2.1	35.4

Sbb + 2'

EL	12.6	24.9
+10	12.0	25.5
bb	5.5	32.1

Sbb + 12'

EL	12.6	24.9
+2	5.4	32.1
bl	3.2	32.3

37.46

Columbia

13

S 1/4 of

Same as

WR	7.0	38.5
bl	1.8	35.5
4	3.9	33.6
6	4.2	33.2
4	4.4	33.1
bl	4.9	32.6
	7.0	30.5

TP

12.6 45.66 4.46 33.04

Center of  
Same

Center of Same

EL	13.2	32.5
bl	13.0	32.7
4	12.7	33.0
6	11.6	34.1
4	11.2	34.5
bl	10.0	35.7
WR	6.7	39.0

4566

n % of Laurel

WL	17	44.0
WL +1	7.0	38.7
bl	8.9	36.8
y	9.7	36.0
b	10.2	35.4
y	11.2	34.5
bl	12.2	33.5
EL	12.2	33.5

n % of Laurel

EL	11.0	34.7
bl	9.2	36.5
y	7.8	37.9
b	8.7	37.0
y	6.0	39.7
bl	2.1	43.2
WL	1.6	44.1

4566

Columbi

14

n % of +1

WL	1.6	44.1
bl	1.2	44.5
y	1.4	44.3
b	7.8	37.9

n % of Laurel

WL	1.2	44.5
bl	0.9	44.8
y	1.1	44.6
b	4.0	41.7
y	6.0	39.7
bl	6.0	39.7
EL	6.0	39.7



45.66

25' n of Laurel

EL		30	42.7
bl		26	43.2
y		10	44.7
b		00	45.7
TP	12.25	<u>57.70</u>	0.21 45.40
y		12.1	45.6
bl		12.1	45.6
WL		10.0	47.4

50' n of Laurel

WL		7.8	49.9
bl		8.5	49.4
y		9.6	48.1
b		10.8	46.9
y		10.3	47.4
bl		10.7	47.0
EL		10.6	47.1

57.70Columbian

15

75' n of Laurel

EL		8.5	49.2
bl		8.5	49.2
y		6.7	51.0
b		5.0	52.7
y		3.4	54.3
bl		1.9	55.8
WL		1.3	56.4
TP	12.78	67.13	3.35 54.35

100' n of Laurel

WL		5.2	61.9
bl		6.4	59.7
y		8.4	58.1
b		11.1	56.0
y		12.1	55.0
bl		13.2	53.9
EL		16.4	50.7

6713

	125'	n of Sound		
EL			107	56.4
bl			79	59.2
y			59	61.2
b			36	63.5
y			18	65.3
bl			0.6	66.5
WR			72	67.4

150' n of Sound

EL			54	61.7
bl			35	63.6
TP	1263	<u>7619</u>	357	63.52
y			100	66.2
b			82	68.0
y			67	69.8
bl			51	71.1
WR			35	72.7

7619 Columbia

	175'	n of Sound		
WR			708	77.0
bl			01	76.1
y			19	74.3
b			40	72.2
y			61	70.1
bl			76	68.6
EL			90	67.2

200' n of Sound

EL			44	71.8
bl			28	73.4
y			15	74.7
TP	1224	<u>8662</u>	181	74.38
b			97	75.9
y			82	78.4
bl			76	79.0
WR			63	80.3



<u>8662</u>				<u>9609</u>				<u>Columbus</u>
	225'	n of	Samuel		275'	n of	Samuel	17
WL			28 83.8	WL		65 89.6		
bl			40 82.6	bl		72 88.9		
y			54 81.2	y		80 88.1		
b			70 79.6	b		89 87.3		
y			80 78.6	y		98 86.3		
bl			90 77.6	bl		110 85.1		
EL			108 75.8	EL		125 83.8		
	250'	n of	Samuel		300'	n of	SE of Maple (80')	
EL			68 79.8	EL		80 88.1		
bl			53 81.3	bl		68 89.3		
y			35 83.1	y		62 89.9		
b			18 84.8	b		47 91.4		
y			15 85.1	y		42 91.9		
bl			05 86.1	bl		33 92.8		
TP	1080	<u>9609</u>	136 85.6	WL		32 92.9		
WL			8.5 87.6					

9609

## S 1/2 of Maple

W2	2.1	94.0
W	1.8	94.3
Y	2.0	94.1
S	2.2	92.9
7	4.7	91.4
W	4.8	91.3
E2	5.5	90.6

## S 1/4 of Maple

E2	4.0	92.1
W	2.9	93.2
7	2.1	94.0
S	1.6	94.5
Y	0.9	95.2
W	0.7	95.4
W2	0.8	95.3

TP 11.71 105.43 2.27 - 92.20

105.43

Columbia

## Center of Maple

W2	9.2	96.2
W	8.9	96.5
Y	8.7	96.7
S	8.9	96.5
7	9.6	95.8
W	10.9	94.5
E2	11.8	93.6

## N 1/4 of Maple

E2	10.1	95.3
W	9.4	96.0
Y	8.4	97.0
S	7.0	98.4
7	6.8	98.6
W	7.4	98.0
W2	7.8	97.6



105-43

el.

n lb of maple

WR	60	99.4
bl	58	99.6
y	57	99.7
b	57	99.7
y	64	99.0
bl	75	97.9
EL	87	96.7

n lb of maple

EL	68	98.6
bl	54	100.0
y	46	100.8
b	44	101.0
y	43	101.1
bl	43	101.1
WR	47	100.5

105-45

Columbin

19

25' n of maple

WR	24	103.0
bl	27	102.7
y	24	103.2
b	20	103.4
y	18	103.6
bl	22	103.2
EL	28	102.6

50' n of maple

EL	02	105.2
bl	00	105.4
y	04	105.8
b	04	105.8
y	00	105.4
bl	00	105.4
WR	04	105.0

TP 12.48 115-44 2.47 102.96

Rock

115.44

75' n of Maple

WL	77	107.7
bl	80	107.4
"	80	107.4
b	73	108.1
"	70	108.4
bl	68	108.6
EL	71	108.3

100' n of Maple

EL	39	111.5
bl	39	111.5
"	41	111.3
b	41	111.3
"	48	110.6
bl	34	110.0
WL	62	109.2

115.44

Columbus

20

125' n of Maple

WL	38	111.6
bl	30	112.4
"	28	112.6
b	27	112.7
"	29	113.4
bl	18	113.6
EL	14	115.0

TP 1102 12479 167 11377

130' n of Maple

BL	83	116.5
bl	85	116.3
"	83	116.5
b	87	116.1
"	95	115.3
bl	104	114.4
WL	115	113.3



12479

175' n of maple

W2	10.2	114.6
bl	9.2	115.6
v	7.8	117.0
b	7.2	117.6
7	6.0	118.8
bl	5.4	119.4
E2	5.2	119.2

200' n of maple

E2	2.2	122.6
bl	3.3	121.5
7	4.2	120.6
b	5.2	119.6
7	6.1	118.7
bl	7.9	116.9
W2	8.3	116.5

12479

Columbia

21

225' n of maple

W2	7.0	117.8
bl	6.9	117.9
7	4.9	119.9
b	3.8	121.0
7	2.7	122.1
bl	1.3	123.5
E2	0.5	124.3
TP	2.75	131.57

250' n of maple

E2	5.4	126.1
bl	6.4	126.1
7	8.2	123.3
b	9.3	122.2
7	10.2	121.3
bl	12.8	120.7
W2	13.0	118.5

13151

275' n of Knapp

W2	143	119.2
bb	120	119.5
"	98	121.7
b	80	123.5
"	68	124.7
ll	47	126.8
EL	35	128.0

300' n = S. side Knapp rd 80'

EL	21	129.4
bb	40	127.5
"	58	125.7
b	71	124.4
"	79	123.6
bb	108	120.7
W2	115	120.0
Bm	106	120.9

Tch wall  
Sun pointing  
downward

13151

Calvinia

22

S. side of Nutmeg

W2	113	120.5
bb	97	121.6
"	82	123.3
b	61	125.4
"	44	127.1
ll	30	128.5
EL	09	130.6

S. side of Nutmeg

EL	00	131.5
bb	18	130.7
"	38	127.7
b	58	125.7
"	75	124.0
bb	86	122.9
W2	101	121.4



13151

## Center of Nutmeg

W2		9.4	122.1
bl		7.2	124.3
7		6.5	125.0
b		4.8	125.7
7		3.2	128.3
bl		1.5	130.0
TP	800	1.02	130.49
EL		5.7	133.0

N<sup>1/2</sup> of Nutmeg

EL		4.9	133.6
bl		6.8	131.7
7		8.6	129.9
b		10.2	128.3
7		11.7	126.8
bl		12.9	125.6
W2		15.3	123.0

13849

Columbia

23

N<sup>1/2</sup> of Nutmeg

W2		14.5	124.0
bl		12.3	126.2
7		10.5	128.0
b		9.8	128.7
7		7.4	131.1
bl		5.3	133.2
EL		3.5	135.0

N<sup>1/2</sup> of Nutmeg

EL		2.5	136.3
bl		4.5	134.0
b		6.6	131.9
b		8.8	129.7
7		9.8	128.7
bl		12.0	126.5
W2		14.8	123.0

13849

25' n of Nutmeg

W2	12.6	125.9
ll	10.7	127.8
"	8.5	130.0
l	6.5	132.0
"	4.8	133.7
ll	2.4	136.1
82	10.2	138.7

50' n of Nutmeg

W2	12.0	126.5
ll	9.6	128.9
"	7.6	130.9
l	5.8	132.7
"	4.0	134.5
ll	1.4	137.1

13849

75' n of Nutmeg

W2	11.6	126.9
ll	9.6	128.9
"	7.1	131.4
l	4.6	133.9
"	2.8	135.7
ll	1.5	137.0

100' n of Nutmeg

W2	10.2	128.3
ll	8.5	130.0
"	6.8	131.7
l	3.7	134.8
"	1.3	137.2
ll	0.0	138.5



13844

	125'	n of	Antimony	
WL			10.0	128.5
bl			8.0	130.5
v			5.8	132.7
l			3.1	135.4
y			0.7	137.8
TP	9.70	14819	0.0	138.89
	80'	n of	Antimony	
EL			8.2	140.0
	75'	n of	Antimony	
EL			7.6	140.6
	100'	n of	Antimony	
EL			6.4	141.8
	125'	n of	Antimony	
CL			5.0	143.2
bl			7.7	140.5

14819

Columbi

25

	150'	n of	Antimony	
EL			4.0	144.2
bl			5.8	142.4
y			8.6	139.6
l			10.8	137.4
y			13.2	135.0
bl			15.4	132.8
WL			17.6	130.6
	175'	n of	Antimony	
WL			16.0	132.2
bl			14.0	134.2
y			12.0	136.2
l			9.8	138.4
y			6.3	141.9
bl			2.6	145.6
EL			2.0	146.2

14819

200' n of Nutmeg

El	10.5	1487
bl	10	147.2
"	33	144.9
l	67	141.5
y	104	137.8
u	127	135.5
W2	144	133.8

225' n of Nutmeg

W2	124	134.8
bl	110	138.2
y	87	139.5
l	64	141.8
"	30	145.2
bl	00	148.2

14819

Columbi

26

250' n of Nutmeg

W2	125	135.7
bl	97	138.5
"	72	141.0
l	37	144.5
u	17	146.5

275' n of Nutmeg

W2	120	136.2
bl	96	138.6
y	65	141.7
l	32	145.0
"	05	147.7



14819

300' n of (line 50')

W2	11.4	136.8
U	9.0	139.2
y	6.5	141.7
L	3.8	144.4
y	0.8	147.4

TP 938 15372 385 149.39

225' n of Nutmeg

EL 3.6 150.1

250' n of Nutmeg

EL 1.7 152.0

5.1 148.6

275' n of Nutmeg

EL 0.0 153.7

U 4.8 148.9

300' n of Nutmeg

EL 0.7 153.0

U 3.9 149.8

15372

Galumbus

Intersection of line (76.5')

27

3083' n on the west line = S line line (80')

W2 16.8 136.9

U 14.0 139.7

y 12.2 141.5

L 9.7 143.9

y 6.7 147.0

U 3.6 150.1

EL = 3165' n of Nutmeg 0.6 153.1 = S line

S 1/4 of line

EL 0.7 153.0

U 3.8 149.9

y 6.4 147.3

L 9.0 144.7

S 1/4 of line

EL 1.3 152.4

U 4.0 149.7

y 5.7 148.0

L 9.9 145.8

15372

center of Olive #

EL	1.1	152.6
EL	3.5	150.2
7	4.9	148.8
B	7.0	146.7

N 1/4 of Olive

EL	1.6	152.1
EL	4.1	149.6
7	5.7	148.0
b	7.3	146.4

N 1/2 of Olive

EL	2.6	151.1
EL	4.4	149.3
7	6.4	147.3
b	8.2	145.5

BM

near Hartman's Loma

16.3 - 152.09

15372

Columbus

28

N 1/2 of Olive NLOlive

EL	2.8	150.9
EL	5.1	148.6
7	6.9	146.8
b	9.3	144.4

TP 144 148.56 6.60 147.12

S 1/2 of Olive

W2	10.5	138.1
EL	8.0	140.6
7	6.0	142.6

S 1/4 of Olive

W2	10.0	138.6
EL	7.6	141.0
7	5.4	143.2

center of Olive

W2	9.8	138.8
EL	7.7	140.9
7	5.9	142.7



14856

N<sup>1/2</sup> of Olive

WR	105	138.1
bl	74	141.2
y	56	143.0

N<sup>1/2</sup> of Olive

WR	112	137.4
bl	87	139.9
y	68	141.8

N<sup>1/2</sup> of OliveN<sup>1/2</sup> Olive

WR	130	135.6
bl	100	138.6
y	74	141.2

14856

300' S of Palm

75' N of Olive 29

175' N of Olive 8

WR	120	135.6
bl	104	138.2
y	77	140.9
l	51	143.5
y	30	145.6
bl	02	148.4
RT		

275' S of Palm

WR	133	135.3
bl	107	137.9
y	79	140.7
l	44	144.2
y	22	146.4
bl	03	148.3

14856

	250'	S of Palm	
WL			121 136.5
bl			105 138.3
y			70 141.6
b			38 144.8
y			18 146.8
bl			00 148.6

	225'	S of Palm	
WL			100 138.6
bl			73 141.3
y			54 143.2
b			33 145.3
y			12 147.4

14856

Columbus

30

	200'	S of Palm	
WL			93 139.3
bl			69 141.7
y			50 143.6
b			26 146.0
TP	923	154.71	308 145.48

300' S of Palm = 185 in bl

	275'	S of Palm	
EL			45 150.6
SL			37 151.0
EL	250	306	29 151.8

	225'	S of Palm	
EL			20 152.7
bl			4.9 149.8
EL	200'	S of Palm	06 154.1
bl			32 151.5
y			5.9 148.8



15-471

	175'	S of Palm		
EL			+05-	155.2
bl			28-	151.9
H			5.2	149.4
b			6.9	147.8
y			10.4	144.3
bl			13.0	141.7
WL			15.0	139.7

150' S of Palm

WL			15.2	139.5
bl			13.2	141.5
y			10.7	144.0
H			8.4	146.3
y			5.7	149.0
bl			2.6	151.1
EL			0.0	154.7

15-471

Columbu

31

125' S of Palm

EL			+05-	155.3
bl			3.0	151.7
y			6.1	148.6
b			8.6	146.1
y			11.2	142.5
TP			12.55	

100' S of Palm

EL			2.9	157.8
bl			5.7	149.0
y			8.5	146.2
b			11.3	143.4
y			13.2	137.5 - 141.5
TP	6.33	148.99	12.55	142.16

14849

	125'	S of Palm		
WR			102	138.3
bl			80	140.5
	100'	S of Palm		
WR			116	136.9
bl			91	139.4
	75'	S of Palm		
WR			133	135.2
bl			115	137.0
g			96	138.9
l			65	142.0
g			46	143.9
bl			25	146.0
ER			00	148.5

14849

Columbia

32

	50'	S of Palm		
ER			47	143.8
bl			72	141.3
g			92	139.3
l			114	136.7
g			130	135.5
	31.6	142.65	90	139.49
bl			81	134.5
WR			104	132.2
	55'	S of Palm		
WR			132	129.4
bl			107	131.9
g			90	133.6
l			85	134.1
g			70	135.6
bl			53	137.1
ER			39	138.7

on bath

POSTED



1726

S. line of Palm

Et		9.0	133.6
ll		9.9	132.7
y		10.6	132.0
b		12.6	130.0
7P	052	13274	10.43 13222
y		6.0	136.6
ll		7.0	137.6
W2		8.4	124.3

1766  
1757

Cross-section of Hutney (80')  
W. line of State to Edin California

1300 74 46  
W. of Columbia

1224 133.13 120.89

E. line of Columbia

Sl		35	129.6
ll		25	130.6
y	POSTED	17	131.4
b		0.4	132.7
7P	1281	14522	0.42 132.71
y		11.9	133.6
ll		10.6	134.9
W2		9.2	136.3

W. of E of Columbia

W2		35	142.0
ll		50	140.5
y		75	138.2
b		8.8	136.7
y		70.2	135.3
ll		11.4	134.1
W2		12.4	133.1

14550

50' E of Columbia

SL		10.5	135.0	
		7.8	137.7	
Y		5.8	139.7	
b		3.8	141.7	
Y		2.0	143.5	
bl		1.2	149.3	
TP	396	<u>14914</u>	0.34	145.14
RL		3.90	145.2	
	75'	E of Columbia		
RL		1.0	148.1	
bl		2.7	146.7	
Y		4.7	144.9	
b		6.7	142.9	
Y		7.9	141.2	
u		9.8	139.3	
SL		11.7	137.4	

14914

Nutmeg

34

100' E of Columbia

SL		11.1	138.0
bl		9.0	140.1
Y		7.4	141.7
b		5.5	143.6
Y		3.6	145.5
bl		1.8	147.3
RL		0.1	149.0
	125'	E of Columbia	
RL		2.1	147.0
bl		3.3	145.8
Y		5.1	144.0
b		6.9	142.2
Y		8.2	139.9
u		11.6	137.5
SL		13.0	136.1



149.14

150' E of Columbia

22	65	142.6
ll	81	141.0
4	9.8	139.3
6	12.0	137.1
TP	0.47	139.17
4	3.4	134.8
ll	5.0	133.2
S2	6.8	131.4

175' E of Columbia

S2	9.9	128.3
ll	8.2	130.0
4	7.0	131.2
6	5.2	133.0
4	3.4	134.8
ll	2.4	135.8
22	1.5	136.7

138.17

Watney

35

200' E = W of State St

22	6.9	131.3
ll	7.1	131.1
4	8.3	129.9
6	9.5	128.9
4	11.0	127.2
ll	13.5	124.7
S2	15.4	122.8

W line of Columbia (75')

143	125.2	22	120.89
-----	-------	----	--------

S2	23	120.0
ll	2.2	120.1
4	1.0	121.3
6	0.3	122.0
4	7.05	122.8
ll	7.0	123.3
22	7.19	124.0

Bm 74 of base  
Columbia

08

12232

25' W of Columbia

NL	04	121.9
ll	1.0	121.3
7	2.5	119.8
6	3.1	119.2
7	4.2	118.1
ll	4.4	117.9
SL	3.6	118.7

50' W of Columbia

SL	5.5	116.8
ll	5.9	116.4
7	6.3	116.0
h	5.7	116.6
7	4.4	117.9
ll	5.0	119.3
NL	2.9	119.4

12232

Nutmeg

36

75' W of Columbia

NL	5.3	117.0
ll	5.9	116.4
7	7.0	115.3
6	7.9	114.4
7	8.8	113.5
ll	8.5	113.8
SL	7.7	114.6

100' W of Columbia

SL	10.9	111.4
ll	17.0	111.3
7	11.5	110.8
h	10.5	111.8
7	9.5	112.8
ll	8.5	113.8
NL	8.1	114.2



1232				11055 Nutmeg			
125' w of Columbia				175' w of Columbia			
N2			11.3 111.0	N2			7.7 112.9
bl			11.9 110.4	bl			7.9 102.7
γ			12.9 109.4	γ			9.4 101.2
TP	0.75	11055	12.5 109.50	l			9.8 100.8
l			1.6 109.0	γ			10.8 99.8
γ			2.5 108.1	bl			11.6 99.0
bl			3.4 107.2	SL			11.7 98.9
SL			2.1 108.5	TP	0.16	99.40	11.28 99.27
150' w of Columbia				1.99' w of Columbia			
SL			7.5 103.1	SL			5.2 94.2
bl			8.2 102.4	bl			5.2 94.2
γ			7.0 102.6	γ			5.7 94.7
l			6.0 104.6	l			3.9 94.5
γ			5.0 105.6	γ			5.0 96.2
l			3.5 107.1	bl			2.8 96.6
N2			3.5 107.1	N2			2.5 96.9

200' W = E Line India (75°)

22	62	93.2
ll	67	92.7
"	68	92.9
6	66	92.8
"	69	92.5
ll	67	92.7
SL	70	92.4

India Gradient

TP 0.98 91.23 9.15 90.28

W Line of India

SL	1.0	90.2
ll	1.1	90.1
"	1.1	90.1
6	0.6	90.6
"	0.5	90.7
ll	0.7	90.8
22	0.0	91.2

15' W of India

22	5.5	85.9
ll	2.5	88.7
"	5.5	85.7
6	9.0	82.2
"	10.0	81.2
ll	11.5	79.7
SL	11.0	80.2

25' W of India

SL	15.5	75.7
ll	14.0	77.2
"	13.5	78.2
6	11.5	80.0
"	9.4	81.8
ll	8.0	83.2
22	7.0	84.2

TP 0.14 78.41 12.95 78.21



7841

50' W of India

22	02	78.2
bl	03	78.1
7	1.3	77.1
6	2.0	76.9
12	5.0	73.9
bl	7.0	71.2
52	7.7	71.0

75' W of India

52	8.4	70.0
bl	8.4	70.0
7	8.4	70.0
6	8.5	71.9
4	5.0	73.4
bl	4.9	73.5
22	4.1	74.3

7841

nutmeg

39

100' W of India

22	9.3	69.1
bl	10.0	78.9
7	8.4	70.0
6	9.4	69.0
7	10.4	68.0
bl	11.8	67.4
52	12.8	66.4

TP 0.20 66.44 12.77 66.28

125' W of India

52	5.6	60.8
bl	4.4	62.0
7	2.3	62.9
6	2.4	64.0
7	1.4	65.0
bl	1.0	65.4
22	0.8	65.6

6644

	150'	W of India		
22		42	4.9	61.5
ll			5.9	60.5
7			5.5	60.9
6			5.9	60.5
7			7.3	59.1
ll			8.2	58.2
SL			9.1	57.3
	175'	W of India		
SL			13.8	52.6
ll			12.2	54.2
7			11.0	55.4
4			10.1	56.3
7			9.5	56.9
ll			7.4	57.0
22			9.2	57.2
TP	0.6	54.2	12.14	54.31

5492 nutting

40

	200'	W - E line	Arctic (75')	
22			2.5	52.4
ll			2.6	52.3
7			2.9	52.0
6			3.0	51.9
7			3.7	51.2
ll			4.9	50.0
SL			5.8	49.1
		E of Arctic		
SL			8.6	46.3
ll			8.6	46.3
7			5.7	49.2
6			4.9	50.0
7			4.4	50.5
ll			4.1	50.8
22			4.1	50.8



5492

E 1/4 of Arctic

22	85	46.7
ll	9.0	45.9
v	9.4	45.5
b	10.0	44.9
4	10.1	44.8
ll	10.8	44.1
S2	12.0	42.9
2 E 1/4 RR Rail		
S2	9.4	45.5
ll	9.2	45.7
v	9.0	45.9
b	8.7	46.2
v	8.5	46.4
ll	8.4	46.5
22	7.9	47.0
RR Rail Rd	7.0	47.9
RR Rail S2	8.7	46.2

5492

nut mag

2' w of RR Rail

41

22	8.0	46.9		
ll	8.0	46.7		
v	8.5	46.4		
b	8.8	46.1		
4	9.0	45.9		
ll	9.1	45.8		
S2	9.5	45.4		
w 1/4 of Arctic				
S2	11.5	43.4		
ll	11.4	43.3		
v	10.6	44.3		
b	10.1	44.8		
v	9.7	45.2		
ll	9.5	45.4		
22	9.4	45.5		
FP	2.67	52.05	7.54	42.88

POSTED

50.05

6' w of middle of Arctic

72	75	42.5
bl	80	42.0
y	84	41.6
l	87	41.3
y	91	40.9
bl	96	40.4
SL	106	39.4

W of Arctic

72	75	42.5
bl	80	42.0
y	84	41.1
l	87	41.3
y	91	40.9
bl	96	40.4
SL	106	39.4

50.05

return

42

W line of Arctic st

SL	13.4	36.7
bl	12.8	37.3
y	12.3	37.8
l	11.8	38.3
y	10.9	39.2
bl	10.5	39.6
72	9.2	40.2

72 1.04 38.65 12.44 37.61

2.5' w of Arctic st

72	1.5	37.2
bl	2.7	36.0
y	3.0	35.4
l	4.1	34.6
y	4.6	34.1
bl	5.6	33.1
SL	7.0	31.7



3865

50' W of Arctic

52	9.4	29.2
v	9.1	29.5
9	8.5	30.3
6	7.2	31.4
7	6.3	32.3
bl	5.5	33.1
nl	5.5	33.1

75' W of Arctic

nl	7.9	30.7
bl	8.4	30.2
7	9.3	29.3
6	10.2	28.4
7	10.9	27.7
bl	11.2	27.4
SL	11.9	26.7

TP	2.46	29.09	12.02	26.60
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2909

nutmeg

43

100' W of Arctic

SL	40	25.1
bl	34	25.7
4	2.8	26.3
6	3.0	26.1
7	1.2	27.9
bl	0.7	28.4
nl	0.1	29.0

125' W of Arctic

nl	17	27.4
bl	2.6	26.5
7	3.2	25.9
6	4.2	24.9
7	4.8	24.3
bl	4.9	24.2
SL	6.0	23.1

2909

	150' W of Arctic		
SL		7.7	21.4
bl		6.7	22.4
"		5.5	23.6
g		5.2	23.9
b		4.5	24.6
bl		4.0	25.1
RL		3.3	25.8

175' W of Arctic

RL		6.8	22.3
bl	<b>POSTED</b>	7.1	22.0
g		8.0	21.1
b		9.0	20.1
g		9.2	19.9
bl		9.1	20.0
SL		9.4	19.7

2909.

Muirney

44

	200' W of - East California		
SL		11.0	18.1
bl		10.0	19.1
g		9.8	19.3
b		9.3	19.8
g		9.4	19.7
bl		9.3	19.8
RL		8.0	21.1
RR Riv RL		6.6	21.5
RR Riv SL		7.7	21.4

E Riv to 24' W of East California



Section of Laurel 80'  
 India to Columbia  
 E of India

	12.88	60.37	47.49	3m inches at bridge
SL			5.2	55.2
bl			5.0	55.4
"			5.0	55.4
b	POSTED		4.7	55.7
"			4.8	55.6
bl			4.8	55.6
nl			4.2	56.2
	1' E on N line			
nl			0.6	59.8
bl			4.8	55.6
	20' E of India			
nl			2.4	58.0
bl			6.7	53.7
"			8.3	52.1
"			13.0	47.4
TP	5.20	53.07	12.50	47.87
"			6.9	46.8

53.07

Laurel

45

bl		9.7	43.4
SL		10.6	42.5
	25' E of India		
SL		11.8	41.3
bl		9.3	43.8
"		7.0	46.7
b		6.7	46.4
"		3.9	49.2
bl		0.9	52.2
nl		4.30	56.1
	50' E of India		
nl		2.4	50.7
bl		4.0	49.1
"		7.0	46.1
b		8.7	44.4
"		9.3	43.8
bl		11.3	41.8
SL		12.5	40.6

		5307		
TP	75	E of India		
	315	4708	9.14	43.92
SR			5.7	41.4
bl			6.2	40.9
"			5.0	42.1
b			4.2	42.9
"			3.1	44.0
bl			0.3	46.8
SR			71.5	48.6

	100	E of India		
SR			0.4	46.7
bl			1.8	45.3
"			3.4	43.7
b			4.2	43.0
"			5.2	41.9
bl			5.4	41.7
SR			5.8	41.3

		4708		Layer
	125	E of India		
SR			9.2	37.9
bl			5.4	41.7
"			5.2	41.9
b			4.8	42.3
"			3.7	43.4
bl			2.5	44.6
SR			1.3	45.8

	150	E of India		
SR			2.0	45.1
bl			3.0	44.1
"			4.5	42.6
b			5.0	42.1
"			4.7	42.4
bl			5.8	41.3
SR			9.0	38.1



4708

175' E of India

SL	62	40.9
bl	46	42.5
"	41	43.0
b	36	43.5
"	34	43.3
bl	32	43.9
SL	26	44.5

182'

SL	6.6	40.5
bl	5.0	
"	4.0	
b	3.5	

4708

Landed

200' E of India (X sec graded)

47

SL	26	44.5
bl	20	44.1
"	33	43.8
bl	84	38.7
bl also	43	42.8
"	8.0	39.1
"	7.7	39.4
bl	11.6	35.5
SL	12.5	33.6

POSTED





271.99

100' n of Wash

WL		51	266.9
bl		62	265.8
5'		63	265.7
1		65	265.7
5'		68	265.2
bl		71	264.9
EL	125	74	264.6

125' n of Wash

EL		80	264.0
bl		80	264.0
5'		76	264.4
6		52	266.8
5'		57	266.3
bl		61	265.9
WL		54	266.6

271.99

Eagle st

49

150' n of Wash

WL		55	266.5
bl		55	266.5
5'		58	266.2
1		76	264.4
5'		82	263.7
bl		86	263.4
EL		91	262.9

175' n of Wash

EL		101	261.9
bl		79	264.1
5'		78	264.2
6		77	264.3
5'		67	265.3
bl		57	266.3
WL		55	266.5

27199

200' n of Wash st

W2	55	266.5
bl	62	265.8
5'	67	265.3
b	80	264.0
st	83	263.7
bl	86	263.4
EL	113	260.7

225' n of Wash st

EL	121	259.9
bl	85	263.5
5'	80	264.0
b	79	264.1
5'	74	264.6
bl	67	265.3
W2	54	266.6

27199

Eagle st

250' n of Wash st

W2	58	266.2
bl	71	264.9
5'	73	264.7
b	77	264.3
5'	83	263.7
bl	88	263.2
EL	92	262.8

275' n of Wash st

EL	88	263.2
bl	77	264.3
5'	77	264.3
b	60	266.0
5'	67	265.3
bl	68	265.2
W2	55	266.5

50



27199

300' n = S L Getti (50')

W2		60	266.0
bl		61	265.9
s'		61	265.9
t		67	265.3
s'		69	265.1
bl		72	264.8
EL		74	264.8
TP	770	27229	740
	S lat of Getti st		
EL		70	265.3
bl		70	265.3
s'		71	265.2
t		69	265.4
s'		63	266.0
bl		63	266.0
W2		62	266.1

27229

Eagle st

51

S 5' from bl

W2		60	266.3
bl		62	266.1
s'		61	266.2
t		67	265.6
s'		71	265.2
bl	POSTED	68	265.5
EL		68	265.5

center of Getti

EL		67	265.6
bl		67	265.6
s'		63	266.0
t		62	266.1
s'		62	266.1
bl		58	266.5
W2		57	266.6

27229

N-5' from Gb

WL	54	266.9
bl	52	267.1
s'	58	266.5
b	54	266.9
s'	62	266.1
bl	64	265.9
EL	63	266.0

Nth of Gb

EL	63	266.0
bl	62	266.1
s'	61	266.2
b	54	266.9
s'	54	266.9
bl	48	267.5
WL	53	267.0

27229

Eagle st

52

N line of Gb

WL	53	267.0
bl	56	266.7
s'	57	266.6
b	54	266.9
s'	59	266.4
bl	60	266.3
EL	60	266.3

25' n of Gb

EL	53	267.0
bl	51	267.2
s'	50	267.3
b	48	267.5
s'	52	267.1
bl	52	267.0
WL	49	267.4



27629

68

	50'	n of	bits	st
W2			40	268.3
U			49	267.4
S			48	267.5
T			43	268.0
S			44	267.9
U			43	268.0
E2			44	267.9

	75'	n of	bits	
E2			43	268.0
U			40	268.3
S			39	268.4
T			35	269.1
S			42	268.1
U			43	267.4
W2			41	268.2

27229

Eagle st.

53

	100'	n of	bits	
W2			36	268.7
U			39	268.4
S			37	268.6
T			32	269.1
S			36	268.7
U			35	268.8
E2			36	268.7

	125'	n of	bits	
E2			35	268.8
U			31	269.2
S			30	269.3
T			30	269.3
S			33	269.0
U			31	268.8
W2			33	269.0

TP 568 274.53 374 268.53

27453

150' n of Gethi

W2	54	269.1
bl	50	269.5
5'	48	269.7
b	46	269.9
5'	47	269.8
bl	50	269.5
EL	54	269.1

175' n of Gethi

EL	50	269.0
bl	48	269.7
5'	46	269.9
b	40	270.5
5'	46	269.9
bl	48	269.7
W2	48	269.7

27453

Eagle st

200' n of Gethi

W2	42	270.3
bl	40	270.5
5'	42	270.3
b	38	270.7
5'	43	270.2
bl	44	270.1
EL	49	269.6

225' n of Gethi

EL	50	269.5
bl	48	270.2
5'	40	270.5
b	37	270.8
5'	40	270.5
bl	44	270.1
W2	44	270.1



27453

	250' nif	Getti	
W2		3.7	270.8
bl		3.7	270.8
5'		3.7	270.8
l		3.5	271.0
5'		4.1	271.4
bl		4.4	271.1
EL		4.7	269.8

2750' nif Getti

EL		5.0	269.5
bl		4.6	269.9
5'		4.2	270.3
l		3.5	271.0
5'		2.4	271.1
bl		2.7	270.8
W2		3.8	270.7

27453

Eagle 11

55

300' n = SL Lewis et

W2		3.7	270.8
bl		3.5	271.0
5'		3.5	271.0
l		3.3	271.2
5'	POSTED	4.4	270.1
bl		4.8	269.7
EL		4.9	269.6

Reintersection of Part of Washington (60')  
 E 2 of 1st to 100' W of 1st st

281.91

Washington

56

	154	281.91	280.37	13m to sub SE corner 1st street	SL	29	279.0
	E 2 of 1st st (70')				bl	25	279.4
SL	15	280.9			4	22	279.7
bl	17	280.2			6	22	279.7
4	17	280.5			4	22	279.7
b	16	280.3			bl	21	279.8
4	17	280.5			2L	16	280.3
bl	15	280.4					
2L	0.9	280.10			2L	22	279.7
	E bl of 1st st				bl	25	279.4
2L	11	280.8			4	26	279.3
bl	16	280.3			6	27	279.2
4	19	280.0			4	30	278.9
b	18	280.1			bl	27	278.7
4	21	279.8			SL	37	278.5
bl	22	279.7					
SL	24	279.5					

E 1/4 of 1st st

POSTED

Center of 1st st



28191

28

W. line of 1st st

SL	38	278.1
bl	39	278.0
y	37	278.2
b	33	278.6
7	31	278.8
bl	31	278.8
SL	23	279.6

W. line of 1st st

SL	25	279.4
bl	26	278.3
y	34	278.5
b	40	277.9
7	50	276.9
bl	38	278.1
SL	41	277.8

28191

Washington

57

W. line of 1st st

SL	11.3	270.6
bl	11.2	270.7
y	11.1	270.8
b	9.3	272.6
7	4.4	277.5
bl	4.1	277.8
SL	3.2	278.6

15' W. of 1st st

SL	6.6	275.3
bl	4.1	277.8
y	4.3	277.6
b	10.5	271.4
7	15.2	266.7
bl	17.7	264.2
SL	18.8	263.1

28191

	25'	W of	1st	st
SL			15.6	266.3
bl			15.1	266.8
y			15.4	276.5
b			10.8	271.1
y			4.5	277.4
bl			4.2	277.7
RL			8.7	273.2

50' W of 1st st

RL			8.4	273.5
bl			4.0	277.9
y			4.1	277.8
bl			5.7	276.2
y			5.3	276.6
bl			5.8	276.1
SL			6.1	278.8

28191

Washington

58

	75'	W of	1st	st
SL			33	278.6
bl			30	278.9
y			30	278.9
b			27	279.2
y			32	278.7
bl			32	278.7
RL			26	279.3

POSTED

100' W of 1st st

RL			21	279.8
bl			19	280.0
y			22	279.7
b			22	279.7
y			20	279.9
bl			23	279.6
SL			25	279.4



7th St Transferred to  
Bank 1911

N 1/2 of Breaks

849	100
W 2	106
bl	122
y	125
b	138
y	140
bl	160
Er	162

N 1/4 of Breaks

W 2	118
bl	120
y	116
l	118
y	120
bl	130
Er	140

Center of Breaks

Er	127
bl	115
y	97
l	85
y	82
bl	90
W 2	96

S 1/4 of Breaks

W 2	50
bl	44
y	38
b	40
y	33
bl	74
Er	94



5 lb of Bricks

EL	55
bl	41
y	39
b	30
y	20
bl	14
WL	13

TP 1226 096

Sum of Bricks

-WL	87
bl	95
y	104
b	100
y	102
bl	103
EL	114

15' Soil Bricks

EL	102
bl	85
y	75
b	69
y	60
bl	52
WL	45

25' Soil Bricks

WL	0.8
bl	1.3
y	1.4
b	1.2
y	0.8
bl	0.9
EL	3.0
TP 1270	0.73



	50' 50	Banks	
E2			30
6			27
4			28
6			27
4			30
6			30
WA			20
TP	12.4		182
TP	7.95		0.96
WA	75' 50	Banks	80
6			80
4			74
6			72
4			76
6			82
E2			87

sub





10584

	75'	E of	India	
SL			+10 106.8	
bl			07 105.1	
"			26 103.2	
b			49 100.9	
"			84 97.4	
bl			110 94.8	
n2			137 90.1 x	
	100'	E of	India	
n2			147 91.1 x	
bl			107 95.1	
"			70 98.8	
b			38 92.0	
"			14 94.4	
TP	1133	11350	369 102.15	TPW01
bl			68 106.7	
SL			46 108.9	

11350

Vine 15

63

	125'	E of	India	
SL			32 112.3	
bl			54 108.1	
"			80 105.5	
b			117 101.8	
	140'	E of	India	
SL			21 111.4	
bl			54 108.1	
"			83 105.2	
b			124 101.1	
	175'	E of	India	
SL			24 111.1	
bl			53 108.2	
"			79 105.6	
b			130 100.5	

11350

	200' E of India = W2 Columbia	(35)
SL	0.5	113.0
bl	4.2	109.3
γ	8.2	105.3
δ	12.7	100.8
TP	118	112.28

103 10318

10215 TP W2

	125' E of India	W2
SL	12.5	90.7 x
bl	8.3	94.9
γ	4.4	98.8

150' E of India

SL	13.5	89.7 x
bl	8.9	94.3
γ	4.3	98.9

10318

W2

	175' E of India	W2
SL	15.6	88.6 x
bl	10.3	92.9
γ	5.3	97.9
TP	0.67	100.41

200' E of India = W2 Columbia

SL	12.6	87.8 x
bl	8.2	92.2
γ	4.0	96.4

W2 of Columbia

SL	10.3	90.1 x
bl	5.9	94.5
γ	2.0	98.4

W 1/4 of Columbia

SL	7.4	93.0 x
bl	3.2	97.2
γ	0.0	100.4



100.91

center of Columbia

nl	48	95.6
bl	1.1	99.3

341

115.73

112.32

TP of 2nd  
W02

W 1/4 of Columbia

nl	22	113.5
bl	63	109.4
4	95	106.2
b	14.8	101.5

W 1/4 of Columbia

nl	15	114.2
bl	45	111.2
4	84	107.3
b	12.7	103.0

center of Columbia

nl	0.4	115.3
bl	0.6	112.1
4	6.8	108.9

115.73

pin

65

b	10.6	105.1
2 1/4	12.7	103.0

E 1/4 of Columbia

nl	17.5	98.2 *
bl	13.8	101.9
4	9.0	106.7
b	6.8	108.9
4	4.8	111.5
bl	1.4	114.3

E 1/4 of Columbia

nl	15.0	100.7 *
bl	11.3	104.4
4	6.7	109.0
b	4.7	111.0
4	1.9	113.8

115.73

East line of Columbia

22	11.7	104.0 *
hh	7.7	108.0
"	5.8	109.9
6	3.2	112.5
4	0.8	114.9

25' E of Columbia

22	4.4	111.3 *
hh	3.1	112.6
4	2.0	113.7

50' E of Columbia

22	2.3	113.4 *
hh	1.0	114.7

TP	12.43	124.75	0.44	115.29	W04
----	-------	--------	------	--------	-----

661

12.43 124.75

112.32 TP W02

E 1/2 of Columbia

SL	7.8	116.9
----	-----	-------

E 1/4 of Columbia

SL	5.4	119.4
----	-----	-------

hh	8.2	116.6
----	-----	-------

E line of Columbia

SL	2.7	122.1
----	-----	-------

hh	7.1	117.7
----	-----	-------

4	9.7	115.1
---	-----	-------

25' E of Columbia

SL	0.0	124.8
----	-----	-------

hh	2.3	122.4
----	-----	-------

4	5.6	119.2
---	-----	-------

l	9.3	115.5
---	-----	-------

TP	12.59	136.85	0.29	124.56	TP W02
----	-------	--------	------	--------	--------



13695

50' E of Columbia  
 SL 7.6 129.4  
 bl 10.4 126.6  
 7 13.4 123.6

75' E of Columbia

SL 4.3 132.7  
 bl 6.3 130.7  
 7 8.6 128.4  
 6 12.0 125.0

100' E of Columbia

SL 0.8 136.2  
 bl 2.8 134.2  
 7 5.4 131.6  
 6 8.1 128.9  
 7 12.6 124.4

TP

1024

14719

500

13695

TP No 2

14719

Vine #

671

125' E of Columbia  
 SL 8.4 138.8  
 bl 10.7 136.5  
 7 12.1 135.1  
 6 14.2 133.0

150' E of Columbia

SL 5.4 141.8  
 bl 7.8 139.4  
 7 10.2 136.9  
 6 13.2 134.0

175' E of Columbia

SL 1.8 145.4  
 bl 4.2 143.0  
 4 7.3 139.9  
 6 10.4 136.8

14719

200' E = W 2 State St (75')

SL		+02	147.4	
hh		23	144.9	
y		5.6	141.6	
b		100	137.2	
TP		166	144.3	TP State W 7

1083 12612 115.9 TP  
W 4

50' E of Columbia

center		82	117.9	
n 1/4		9.7	116.4	

75' E of Columbia

n 2		12.6	118.5	*
hh		9.0	117.1	
y		5.8	120.3	

100' E of Columbia

n 2		9.6	116.5	*
hh		4.5	121.6	

12612

Name

68

125' E of Columbia

n 2		6.4	119.7	*
hh		1.6	124.5	
y		+2.0	128.1	

130' E of Columbia

TP 107.6 13396 382 122.30

n 2 14.2 118.9 \*

hh 7.6 125.5

y 3.3 129.8

175' E of Columbia

n 2		7.3	119.8	*
hh		7.1	126.0	
y		1.3	131.8	

200' E = W 2 of State St (75')

n 2		13.0	120.1	*
hh		6.4	126.9	
y		0.8	132.3	



13306

W 1/4 of State st

N 2 131 120.0 \*

bh 7.7 125.4

y 2.6 130.5

W 1/4 of State st

N 2 12.8 120.3 \*

bh POSTED 7.8 125.3

y 3.0 130.1

Center of State st

N 2 11.6 121.5 \*

bh 5.2 127.9

y 0.4 132.7

E 1/4 of State st

N 2 7.9 125.2 \*

bh 3.5 129.6

E 1/2 of State

N 2 3.8 129.3 \*

bh 3.6 129.5

145.63

Nine

69

TP 1258 14533 0.31 132.75

E line of State st

N 2 12.4 133.2 \*

bh 12.0 133.6

POSTED

y 9.7 135.9

b 5.8 139.8

25' E of State st

N 2 6.0 139.6 \*

bh 5.8 139.8

y 4.3 141.3

b 70.8 146.1

TP + 440 14867 1.32 1442.7 W08

y 25.7 146.10 W07

W 1/2 of State st

S 2 0.0 148.7

bh 2.6 146.1

y 6.4 142.3

b 11.6 137.1

14867

W 1/4 of State st

SR		+0.8	149.5
bl		2.0	146.7
y		5.1	143.6
b		9.3	139.4
7	962	155.75	146.3

Center of State st

SR		5.0	150.8
bl		7.3	148.5
y		9.9	145.9
b		13.4	140.4

E 1/4 of State st

SR		4.0	151.8
bl		6.4	149.4
y		10.0	145.8
b		12.0	141.8
y		19.0	136.8

15575

Vine

70

E 1/4 of State st

SR		2.2	153.6
bl		6.3	149.5
y		10.7	145.1
b		14.2	140.6
y		19.2	136.6

Edge of State st

SR		0.5	155.3
bl		5.6	150.2
y		11.0	144.8

25' E of State st

SR		+1.5	157.2
bl		3.5	152.3
y		8.6	147.2



15-5-75

50' E of Stake 22

RL		68	149.0 *
bl		60	149.8
y		50	150.8
b		20	153.8
TP	1262	<u>16787</u>	0.50 155.5
y		116	156.3
bl		77	160.2
SL		60	161.9

75' E of Stake 22

SL		14	166.5
bl		31	164.8
y		56	162.3
b		91	158.8
y		120	155.9
bl		126	155.3
RL		100	156.9 *

1678771

100' E of Stake 22

RL		15	166.4 *
bl		0.8	167.1
y		0.5	167.4
TP	1290	<u>180.61</u>	0.16 167.71
b		12.4	168.2
y		11.8	168.8
b		11.0	169.6
SL		10.2	170.4

125' E of Stake 22

SL		6.3	174.3
bl		6.8	173.8
y		7.2	173.4
b		7.8	172.8
y		8.2	172.4
bl		9.8	170.8
RL		10.7	169.9 *

		18061		
	130'	E of	Stake	st.
RL			35	177.1 *
ll			2.8	177.8
"			2.5	178.1
b			2.8	177.8
"			2.7	177.9
ll			2.2	178.4
SL			1.0	179.6
TP	1212	191.75	0.98	179.63
	175'	E of	Stake	st.
SL			7.0	184.8
ll			8.5	183.3
"			10.0	181.8
b			14.0	180.8
"			11.0	180.8
b			11.3	180.5
RL			12.0	179.8 *

		19175		View
	200'	E = W of Union	(5')	
RL			5.4	186.4 *
ll			4.6	187.2
"			3.6	188.2
b			2.2	189.6
"			1.9	189.9
ll			2.0	189.8
SL			1.0	190.8
TP	1262	20343	0.94	190.81
		W. Corner of Union		
SL			9.2	194.2
ll			9.6	193.8
"			10.0	193.4
b			10.0	193.4
"			10.4	193.0
ll			12.1	191.3
RL			14.0	189.4 *



20343

W<sup>1</sup>/<sub>4</sub> of Amin

hL	109	192.5 *
ll	93	194.1
"	83	195.1
l	78	195.6
4	64	197.0
ll	56	197.8
SL	56	197.8

Center of Amin

SL	20	201.4
ll	20	201.4
4	28	200.6
l	41	199.3
4	47	198.7
ll	64	197.2
hL	76	195.8 *

20343

73

E<sup>1</sup>/<sub>4</sub> of Amin

hL	52	198.2 *
ll	36	199.8
"	25	200.9
l	08	202.6
TP	11.95	214.0
4	0.95	202.48
4	113	203.1
ll	10.2	204.2
SL	9.2	205.2

E ll of Amin

SL	66	207.8
ll	70	207.4
"	76	206.8
l	81	206.3
4	82	206.2
ll	97	204.7
hL	126	201.8 *

21443

E line of Union st

22	9.2	205.2
bl	8.0	206.4
y	7.4	207.0
b	5.7	208.7
y	4.7	209.7
bl	4.0	210.4
SR	3.6	210.8

25' E of Union

SR	10.1	214.8
bl	10.6	215.0
y	0.4	214.4
b	0.0	214.4
y	1.2	213.2
bl	1.8	212.6
22	3.7	210.7

TP 1136 22458 0.91 210.5

22458

Vine

50' E of Union

22	9.5	215.4
bl	8.0	216.9
y	6.8	218.1
b	5.7	219.2
y	4.8	220.1
bl	4.0	220.9
SR	3.4	221.5

TP 850 23273 0.95 215.3

75' E of Union

SR	5.3	227.1
bl	5.2	227.2
y	6.2	226.2
b	7.0	225.4
y	8.1	224.3
bl	10.4	222.0
22	12.4	220.0

74



	100' E of Penin.		
72		95	222.9
66		79	224.5
6		63	226.1
6		53	227.1
4		50	227.4
66	POSTED	34	229.0
82		27	229.7

	115' E of Penin. a	Swart (Puebler line)	
52	115' e	0.5	231.9
66		1.5	230.9
2		2.0	230.4
6		3.1	229.3
7		4.5	227.9
66		6.0	226.4
72	110' e	8.0	224.4
77		7.83	224.0

Lat  
110'  
72

Alley Blk 4  
C-D-24<sup>th</sup> - 25<sup>th</sup> Crosssections

$\frac{2}{29}$   
 $\frac{08}{08}$  Hatch  
Williams  
Emery

Platted  
1/20/09 76

Bon.	298	19444	191.46	Spk in Elec Mast 25 <sup>th</sup>		199.86	50' W
	1019	199.86	477	189.67	N	4.9	195.0
		W h. 25 <sup>th</sup>			+10	5.7	194.2
N.			7.0	192.9	S	5.2	194.7
+5			7.2	192.7			75' W
+6	POSTED		9.2	190.7	N	4.7	195.2
+15			9.3	190.6	+10	5.2	194.7
+16			7.0	192.9	S	4.9	195.0
S			6.9	193.0			100' W
		25' W			N	4.4	195.5
N			5.6	194.3	+10	4.9	195.0
+5			5.7	194.2	S	5.0	194.9
+6			6.9	193.0			125' W
+14			6.9	193.0	N	4.6	195.3
+15			5.8	194.1	+10	5.0	194.9
S			5.9	194.0	S	4.7	195.2



199.86  
150' W

N	4.7	195.2
+10	5.0	194.9
S	5.0	194.9

175' W

N	5.1	194.8
+10	5.4	194.5
S	5.4	194.5

200' W

N	5.8	194.1
+10	6.4	193.5
S	6.3	193.6

225' W

N	6.5	193.4
+10	7.0	192.9
S	6.8	193.1

199.86  
350' W

N	6.8	193.1
+10	7.3	192.6
S	7.1	192.8

375' W

N	7.4	192.5
+10	7.5	192.4
S	7.5	192.4

300' W

N	7.8	192.1
+10	8.0	191.9
S	7.7	192.2

TP 1.68 193.71 7.83 192.03  
325' W

N	2.2	191.5
+10	2.0	191.7
S	2.2	191.5

Cement  
drill  
south

19371

350' W

N	2.7	191.0
+10	2.7	191.0
S	2.4	191.3

375' W

N	3.4	190.3
+10	3.1	190.6
S	2.9	190.8

400' W

N	3.8	189.9
+10	3.8	189.9
S	3.5	190.2

425' W

N	4.4	189.3
+10	4.5	189.2
S	4.3	189.4

19371

450' W

N	5.4	188.3
+10	5.3	188.4
S	5.1	188.6

475' W

N	6.6	187.1
+10	6.4	187.3
S	6.0	187.7

493' W E. end of Asphalt Paving.

N	7.7	186.0
+10	7.8	185.9
S	7.6	186.1

537' W

N	8.9	184.8
+10	9.2	184.5
S	8.9	184.8

of Paving  
Break in grade



193.71

576' W

N		12.2	181.5
+6 to Bitumen		12.5	181.2
+10		12.6	181.1
S		12.3	181.4

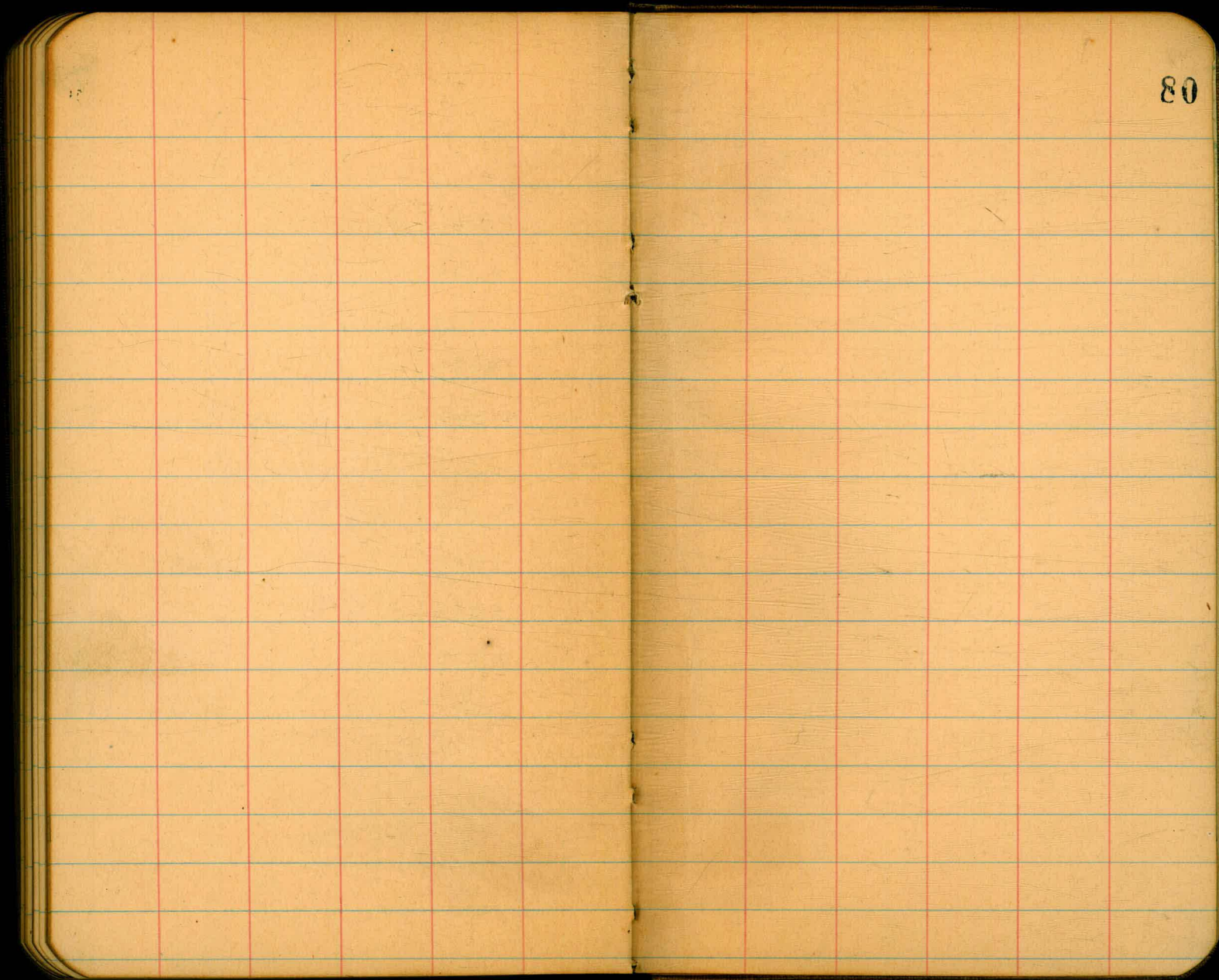
T.P.	10.6	183.09	116.8	182.33
------	------	--------	-------	--------

600' W = FL 24'

N		2.6	180.5
+6 = Bitumen		4.4	178.7
+10		4.8	178.3
S		4.5	178.6

BM NW 24 <sup>th</sup> C	170	181.39	181.36
SE Cor Cement Post			

POSTED



80



## 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	88
2	99.94	3.49	99.92	3.03	99.91	4.36	99.88	4.80	87
3	99.86	5.23	99.84	5.67	99.81	6.10	99.79	6.54	86
4	99.76	6.98	99.73	7.41	99.69	7.85	99.66	8.28	85
5	99.62	8.72	99.58	9.15	99.54	9.58	99.50	10.02	84
6	99.45	10.45	99.41	10.89	99.36	11.32	99.31	11.75	83
7	99.25	12.19	99.20	12.62	99.14	13.05	99.09	13.49	82
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	80
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	78
12	97.81	20.79	97.72	21.22	97.63	21.64	97.53	22.07	77
13	97.44	22.50	97.34	22.92	97.24	23.34	97.13	23.77	76
14	97.03	24.19	96.92	24.62	96.81	25.04	96.70	25.46	75
15	96.59	25.88	96.48	26.30	96.36	26.72	96.25	27.14	74
16	96.13	27.56	96.00	27.98	95.88	28.40	95.76	28.82	73
17	95.63	29.24	95.50	29.65	95.37	30.07	95.24	30.49	72
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	70
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	37.66	68
22	92.72	37.46	92.55	37.86	92.39	38.27	92.22	38.67	67
23	92.05	39.07	91.88	39.47	91.71	39.87	91.53	40.27	66
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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