400

LEVEL

F. B. 315

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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	2⅓	21	49	41	95⅔
2	4⅔	22	51⅓	42	98
3	7	23	53⅔	43	100⅓
4	9⅓	24	56	44	102⅔
5	11⅔	25	58⅓	45	105
6	14	26	60⅔	46	107⅓
7	16⅓	27	63	47	109⅔
8	18⅔	28	65⅓	48	112
9	21	29	67⅔	49	114⅓
10	23⅓	30	70	50	116⅔
11	25⅔	31	72⅓	51	119
12	28	32	74⅔	52	121⅓
13	30⅓	33	77	53	123⅔
14	32⅔	34	79⅓	54	126
15	35	35	81⅔	55	128⅓
16	37⅓	36	84	56	130⅓
17	39⅔	37	86⅓	57	133
18	42	38	88⅔	58	135⅓
19	44⅓	39	91	59	137⅔
20	46⅔	40	93⅓	60	140

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 or taken off the slopes, to make one chain, horizontal measurement.

MICROFILMED
DEC 1964

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

Crocker Quality

LEVEL BOOK

No. 400

COMMUNI CONSENSU TRADE MARK PRIMO

MANUFACTURED BY

A. S. Crocker Co.

SAN FRANCISCO and SACRAMENTO

FROM Loring's Book Store

X Sec of Thorne St (80)

E S India to W S Horton

7 Clough
19 Pinnan
10 Rogers

1

BM SE Thorne & India

	12.91	102.43		89.52
	E S of India			
n			12.9	89.5
bh			13.3	89.1
4			13.4	89.0
b			13.2	89.2
4			13.2	89.2
bh			13.1	89.3
S			12.9	89.5
	5' E of India St			
S			2.8	99.6
bh			12.7	89.7
4			13.1	89.3
b			12.9	89.5
4			13.2	89.2
43'			13.0	89.4
bh 48			9.4	93.0
			8.2	94.2
n			4.3	98.1

		102.43		
	25'	E of	India st	
n			—	103.1
+3'			0.0	102.4
bh			4.6	97.8
y			10.2	92.2
+5			11.1	91.3
b			10.9	91.5
y			10.4	92.0
+10'			9.9	92.5
bh			8.5	93.9
S			—	103.8
	50'	E of	India st	
S				
bh				
+5'			3.2	99.2
y			4.0	98.4
b			3.9	98.5
y			4.0	98.4
T.P	12.48	114.91	0.0	102.43

		114.91		
	25'	E of	India	
NL			11.8	103.1
SL			11.1	103.8
	50'	E of	India	
SL			6.6	108.3
+2'			6.7	108.2
S bh			12.9	102.0
n bh			10.7	104.2
+10'			4.7	110.2
NL			4.9	110.0
	75	E of	India	
n			+0.3	115.2
+3'			0.0	114.9
bh			4.8	110.1
y			8.0	106.9
b			8.0	106.9
y			7.6	107.3
+10'			8.0	106.9
bh			6.3	108.6
S			1.5	113.4
TP	12.89	127.80	0.0	114.91

Sharma

2

127.80

100° E of India

n			7.7	120.1
+4'			8.0	119.8
+9			10.6	117.2
bh			11.1	116.7
y			12.3	115.5
b			12.8	115.0
y			12.7	115.1
bh			13.1	114.7
+5'			12.9	114.9
S			9.0	118.8

125° E of India

S			3.0	124.8
+2'			3.0	124.8
+7'			7.2	120.6
bh			7.5	120.3
y			6.2	121.6
b			5.1	122.7
y			5.2	122.6
bh			4.4	123.4
+11'			1.4	126.4
n			1.1	126.7
TP	126.0	140.40	0.0	127.80

140.40

Thorne

3

150° E of India

n			7.1	133.3
bh			8.0	132.4
y			9.5	130.9
b			10.1	130.3
y			11.1	129.3
bh			12.8	127.6
+6'			12.8	127.6
+9'			10.6	129.8
S			11.0	129.4

175° E of India

S			4.5	136.1
bh			4.0	136.4
y			3.8	136.6
b			3.1	137.3
y			1.7	138.7
bh			1.1	139.3
n			0.1	140.3
TP	129.8	153.38	0.0	140.40

		153.38		
	200'	E = W S of Columbia St (75)		
n			7,4	146.0
bh			8,3	145.1
y			8,9	144.5
b			9,6	143.8
y			9,8	143,6
bh			10,3	143.1
S			11,3	142,1
	W bh of	Columbia		
S			8,6	144.8
bh			7,6	145,8
y			6,9	146,5
b			6,2	147,2
y			6,0	147,4
bh			5,3	148,1
n			4,4	149.0

		153.38		Thorne
	W	1/4 of	Columbia	
n			1,7	151.7
bh			2,5	150,9
y			3,1	150,3
b			3,9	149,5
y			4,7	148,7
bh			5,6	147.8
S			6,5	146.9
	Center of	Columbia		
S			4,3	149,1
bh			3,3	150,1
y			2,6	150,8
b			1,6	151,8
y			0,3	153,1
TP	12,79	166.17	0,0	153.38
bh			12,6	153,6
n			12,0	154,2

E ¼ of Columbia

n	89	157.3
bb	9.8	156.4
4	10.9	155.3
b	12.1	154.1
4	13.0	153.2
bb	14.0	152.2
S	14.8	151.4

E bb of Columbia

S	12.4	153.8
bb	11.6	154.6
4	10.5	155.7
b	9.6	156.6
4	8.2	158.0
bb	6.6	159.6
n	5.3	160.9

E line of Columbia

n	3.0	163.2
bb	4.0	162.2
4	5.2	161.0
b	6.7	159.5
4	8.4	157.8
bb	9.7	156.5
S	9.7	156.5

25' E of Columbia

S	4.6	161.6
bb	3.5	162.7
4	2.5	163.7
b	1.0	165.2
1208 1785	0.0	166.17
4	1.0	166.3
bb	10.7	167.6
n	9.5	177.8

			178.25						178.25		Thorne
	50°	E of	Columbia				100	E of	Columbia		
n			64	171.9		n			0.0	178.3	
bk			7.5	170.8		bk			0.9	177.4	
y			8.8	168.5		y			2.0	176.3	
b			10.0	168.3		b			3.0	175.3	
y			11.2	167.1		y			3.7	174.6	
bk			12.7	165.6		bk			5.2	173.2	
S			14.1	164.2		S			6.5	171.8	
	75°	E of	Columbia				125°	E of	Columbia		
S			10.7	167.6		S			2.0	176.3	
bk			9.5	168.8		TP	11.81	1900	0.0	178.25	
y			8.1	170.2		bk			13.2	176.9	
b			6.4	171.9		y			12.3	177.8	
y			5.1	173.2		b			12.0	178.1	
bk			3.8	174.5		y			11.2	178.9	
n			3.0	175.3		bk			10.5	179.6	
						n			9.7	180.4	

		1906		
	150'	E of	Columbia	
n			7.5	182.6
bh			7.7	182.4
y			8.8	181.3
b			9.4	180.7
y			10.0	180.1
bh			10.8	179.3
S			11.0	179.1
	175	E of	Columbia	
S			9.1	181.0
bh			8.4	181.7
y			7.5	182.6
b			7.0	183.1
y			6.3	183.8
bh			5.6	184.5
n			4.7	185.4

		1906			Thorne
	200'	E =	W S of	State St (75')	
n			2.0	188.1	
bh			3.2	186.9	
y			4.2	185.9	
b			5.0	185.1	
y			5.8	184.3	
bh			6.6	183.5	
S			7.5	182.6	
	W	bb of	State	St	
S			7.3	182.8	
bh			6.3	183.8	
y			5.1	185.0	
b			4.0	186.1	
y			3.2	186.9	
bh			2.2	187.9	
n			1.0	189.1	

		1900.06		
	W ¼ of	State		
n			0,1	1900
bb			1,2	188.9
y			2,2	187.9
b			3,1	187.0
y			4,4	185.7
M			5,5	184.6
S			6,8	183.3
	Center of	State	st	
S			6,5	183,6
M			4,7	185.4
y			3,7	186.4
b			2,5	187.6
y			1,2	188.9
bb			0,0	190.1
TP	7,98	198,04	0,0	190,06
n			6,4	

		198.04		7 horns
	E ¼	of	State st	
n			4,1	193,9
bb			6,3	191.7
y			7,9	190.1
b			8,6	189,4
y			11,0	187.0
bb			12,5	185,5
S			13,9	184,1
	E bb	of	State st	
S			13,1	184,9
M			11,6	186,4
y			10,2	187 8
b			8,7	1893
y			6,8	191,2
M			4,7	193,3
n			2,0	195,0

		198.04		
	E L of State st			
n			2.5	195.5
bh			4.2	193.8
y			5.8	192.2
b			7.7	190.3
y			9.6	188.4
bh			11.2	186.8
s			12.6	185.4
	25'	E of	State	st
s			11.3	186.7
bh			9.9	188.1
y			8.3	189.7
b			6.3	191.7
y			4.5	193.5
bh			2.9	195.1
n			1.3	196.7

		198.04			Thorne st
					8
	50'	E of	State		
n			0.1	197.9	
bh			1.6	196.4	
y			2.9	195.1	
b			4.4	193.6	
y			6.3	191.7	
bh			7.7	190.3	
s			8.9	189.1	
	75'	E of	State	st	
s			7.1	190.9	
bh			5.2	192.8	
y			4.1	193.9	
b			3.0	195.0	
y			1.9	196.1	
bh			0.4	197.6	
TP	10.38	208.42	0.0	198.04	
n			9.5	198.9	

19504

208.42

	100'	E ℄	Station	
n			7.6	200.8
bl			8.9	199.5
y			10.5	197.9
b			11.7	196.7
y			13.1	195.3
bl			13.9	194.5
S			15.2	193.2
	125'	E ℄	Station	
S			11.9	196.5
bl			11.7	196.7
y			10.7	197.7
b			9.6	198.8
y			8.4	200.0
bl			7.0	201.4
n			6.0	202.4

208.42

Thorne

9

	150'	E ℄	Station	
n			2.9	205.5
bl			4.1	204.3
y			5.7	202.7
b			6.8	201.6
			6.4	202.0
y			6.8	201.6
bl			8.7	199.7
S			9.1	199.3
	175'	E ℄	Station	
S			5.7	202.7
bl			5.5	202.9
y			4.4	204.0
b			3.4	205.0
y			3.0	205.4
bl			2.2	206.2
n			0.5	207.9
TP	653	213.48	1.47	206.95

		213.48			
	200'	E =	W S Union st (75')		
n			3,7		
bh			4,7		
y			5,2		
b			6,2		
y			6,5		
bh			7,8		
s			7,8		
	W	bb of	Union st		
s			7,2		
bh			6,9		
y			6,0		
b			5,2		
y			4,1		
bh			3,6		
n			2,9		

		213.48			Thorne
	W	1/4	of Union		
n			2,1		
bh			2,2		
y			3,0		
b			4,2		
y			5,8		
bh			6,2		
s			6,4		
	Center of		Union		
s			5,8		
bh			5,6		
y			5,1		
b			3,75	209.73	Bm or Mon
y			2,6		
bh			2,0		
n			1,4		

21348

E ¼ of Union

n	1,3	212.2
bb	1,9	211.6
y	2,7	210.8
b	3,5	210.0
y	4,5	209.0
bb	4,6	208.9
S	5,2	208.3

E bb of Union

S	3,0	208.5
bb	4,8	209.7
y	4,2	209.3
b	3,3	210.2
y	2,6	210.9
bb	1,9	211.6
n	1,6	211.9

21348

E line of Union st

n	2,1
bb	2,5
y	2,7
b	3,7
y	4,9
bb	5,7
S	5,4

25 E of Union st

S	8,0
bb	7,6
y	7,5
b	6,7
y	6,1
bb	5,2
n	4,2

213.48

30' E of Irwin

n	8.0
bk	9.6
y	10.0
b	10.3
y	11.2
bk	11.7
S	12.4

TP	1.91	202.48	12.91	200.57

75' E of Irwin

S	3.8
bk	5.0
y	4.8
b	3.3
y	2.3
bk	1.7
n	1.7

202.48

100' E of Irwin St

n	5.8
bk	7.4
y	7.8
b	8.7
y	9.6
bk	10.3
S	11.5

125' E of Irwin

nd	10.2
bk	11.5
y	12.8

TP	0.69	190.16	13.01	189.47

b	1.7
y	3.0
bk	3.4
S	5.8

Thorne 23

		190.16			
	150	E of	Union st		
S			11,9		
bh			10,0		
y			8,5		
b			5,5		
y			3,0		
bh			2,4		
n			1,7		
	175	E of	Union		
n			6,8		
bh			7,2		
y			9,5		
b			11,7		
y			13,3		
TP	0,61	177.78	12,99	177,17	
bh			4,5		
S			8,1		

		177,78			Thorne
	200	E #	W S of	Horton (75')	
S			16,6		
bh			13,0		
y			11,0		
b			9,0		
y			7,0		
bh			4,8		
n			3,2	174,6	

7 Clough
19 Dunham
10 Rogers

X Sec of Union St (75)

S & Thorne to N & Sassafras

	328	210.23		206.95
	S Side of Thorne			
W			45	
bl			40	
y			31	
b			25	
y			19	
bl			16	
E			22	
	25'	S of	Thorne	
W			60	
bl			51	
y			41	
b			34	
TP	26.4	209.59	328	- 206.95
y			in shed	
bl			30	
E			37	

209.59

Union St

	50'	S of	Thorne st
E			48
bl			38
y			34
b			39
y			46
bl			53
W			60
	75'	S of	Thorne st
W			67
bl			63
y			58
b			55
y			53
bl			52
75			85.3
E			(85.5) in shed

20959

100 S of Thorne St.

E			11.2	
bk			(w shed)	
+5			7.4	
y			7.3	
l			7.0	
y			7.0	
bk			7.1	
W			7.6	

125' S of Thorne

W			8.8	
bk			8.7	
y			8.7	
b			9.0	
+5'			9.5	
+8' y			10.3	
			10.8	
MP	115	200.67	10.07	19952
bk			3.7	
E			5.3	

200.67

150 S of Thorne St

E		9.7
+7		9.5
+3 bk		8.1
		7.3
y		5.7
b		5.3
y		2.5
bk		1.7
W		1.4

175' S of Thorne

W		4.2
bk		5.4
y		6.5
b		7.7
y		10.4
bk		12.6
E		14.8

Union st

200.67

200 S of 7 horns

W			8.0
bl	s		9.4
y			10.8
b			13.9
TP	0.26	187.93	13.0	187.67
y			3.6
bl			5.9
E			8.3

225' S of 7 horns

E			~~14~~
bl			12.4
y			9.0
b			7.0
y			4.4
bl			2.2
W			0.3

187.93

Union

16

250 S of 7 horns

W			6.1
bl			8.0
y			10.7
b			13.5
TP	275' S of		7 horns	
W			12.0	175.8
TP	0.38	175.54	12.97	174.96
	225' S of		7 horns	
E			3.9

250 S of 7 horns

E			10.0
bl			7.1
y			4.5

175-34

275' S of Thorn

W	17.59
bl	0.8
y	3.9
b	8.4
y	11.5

300' S = N L of Sassafras

W	4.7
bl	8.2
y	11.7

TP	045	162.85	1.94	162.40

275' S of Thorn

E	3.5
bl	1.7
	5

162.85

Union

17

300' S = N L of Sassafras

E	14.4
bl	11.6
y	7.7
b	3.5

7 Clough
30 Donna
10 Rogers

X Sec of L st (80) E L of 14th
to PL 198.2 East

	1.95	15.89		13.94	Bm nw K + 14
	5.55	14.32	7.12	8.77	
	E Sin of 14th st				
S			6.8	7.5	
bh			6.9	7.4	
+6'			6.8	7.5	
4 = 2' S of Rail			4.3	10.0	
1/4 + 2" T of Rail			3.8		
+9' = 2' n Rail			4.8	9.5	
b			5.9	8.4	
4			6.5	7.8	
bh			6.0	8.3	
n			5.8	8.5	

14.32

L st

	25' E of 14th st			
n			6.4	7.9
bh			6.8	7.5
4			7.1	7.2
+8'			6.7	7.6
b			5.9	7.4
+4 = 2' n Rail			4.7	9.6
1/4 = 2' S Rail			4.3	10.0
+5			4.6	9.7
bh			6.8	7.5
+9'			6.6	7.7
S			5.5	8.8
	50' E of 14th st			
S			5.5	8.8
bh			6.6	7.7
+8'			6.5	7.8
4 = 2' S Rail			4.5	9.8
+9' = 2' n Rail			4.4	9.9
b			5.3	9.0
+7'			5.8	8.5
+10'			6.7	7.6
4			6.8	7.5
bh			6.6	7.7
n			6.4	7.9

14.32

	75'	E of	14th	st
n			6.4	7.9
bh			6.4	7.9
y			6.8	7.5
b			4.6	9.7
+4' = 2' n Rail			4.4	9.9
y = 2' S Rail			4.4	9.9
+3'			5.5	8.8
bh			5.9	8.4
S			5.6	8.7
	100'	E of	14th	st
S			5.8	8.5
bh			5.4	8.9
y = 2' S Rail			4.0	10.3
+9 = 2' n Rail			4.4	9.9
b			4.7	9.6
+9			6.6	7.7
y			6.6	7.7
bh			6.7	7.6
n			6.6	7.7

14.32

L st

19

	125'	E of	14th	st
n			5.3	9.0
bh			6.2	8.1
y			6.5	7.8
+5'			5.8	8.5
b			4.2	10.1
+4' = 2' n Rail			4.1	10.2
y = 2' S Rail			4.0	10.3
bh			4.9	9.4
S			5.4	8.9
	150'	E of	14th	st
S l			5.3	9.0
bh			4.3	10.0
y = 2' S Rail			3.6	10.7
+9' 2' n Rail			3.9	10.4
b			4.1	10.2
y			5.2	9.1
bh			5.7	8.6
n			5.1	9.2

14.32

	175'	E of	14th st	
n			3.9	10.4
bh			4.0	10.3
y			4.0	10.3
b			3.4	10.9
+4 = 2' n Rail			3.3	11.0
y = 2' S Rail			3.5	10.8
bh			3.6	10.7
S			3.9	10.4
	198.2'	E = PL Sherman's add		
		Street offsets 6.5 to S		
S			3.8	10.5
bh			3.4	10.9
y = 2' S Rail			3.0	11.3
+2' El Rail			3.1	11.2
+9' = 2' n Rail			3.2	11.1
b			3.5	10.8
y			3.5	10.8
bh			3.9	10.4
n			4.0	10.3
Top	1041	21.06	367	1065

X Sec of II st so

L st

20

W L of 15th st 196' w to P. Line

21.06

n			7.7	13.4
+2'			7.0	14.1
bh			7.2	13.9
y			7.6	13.5
+11' = 2' n Rail			7.4	13.7
b = E Rail			7.05	14.0
+7' = 2' S Rail			7.2	13.9
y			7.5	13.6
bh			7.9	13.2
+9'			8.9	12.2
S			9.3	11.8
	25'	W of	15th st	
S			10.2	10.9
+5'			8.2	12.9
bh			8.0	13.1
y			8.3	12.8
+6' = 2' S Rail			7.8	13.3
b = Rail			7.5	13.6
+2' = 2' n Rail			8.1	13.0
y			7.7	13.4
bh			7.8	13.3
+12'			8.0	13.1
n			8.7	12.4

21.06

50' W of 15th st

h +3'	9.1	12.0
bh	8.0	13.1
	8.2	12.9
y +11' = 2' N Rail	8.4	12.7
b Rail	8.0	
+7' = 2' S Rail	8.1	13.0
y	8.6	12.5
bh +7'	8.5	12.6
	9.1	12.0
S	10.2	10.9

75' W of 15th st

S +5'	11.0	10.1
	8.6	12.5
bh	9.0	12.1
	8.9	12.2
y +6' = 2' S Rail	8.7	12.4
b = Rail	8.45	
+2' = 2' N Rail	9.0	12.1
y	8.3	12.8
bh +10'	8.0	13.1
	8.1	13.0
h	9.5	11.6

21.06

100' W of 15th st

h +4'	9.2	11.9
	8.4	12.7
bh	8.7	12.7
y	8.6	12.5
+3	9.3	11.8
+11 = 2' N Rail	9.5	11.6
b = Rail	9.0	
+7' = 2' S Rail	9.0	12.1
y	9.0	12.1
bh +8'	9.0	12.1
	8.41	12.7
S	10.3	10.8

125' W of 15th st

S +6'	11.0	10.1
	9.0	12.1
bh	8.7	12.4
y	8.9	12.2
+6' = 2' S Rail	9.2	11.9
b Rail	9.1	
+2' = 2' N Rail	9.8	11.3
y	9.2	11.9
bh	9.0	12.1
h	9.6	11.5

L st

21

21.06

	150'	W of	15th	st
n			10.0	11.1
bh			9.6	11.5
y			9.7	11.4
	+11' = 2' n Rail		9.7	11.4
b	Rail		9.4	
	+7' = 2' S Rail		9.7	11.4
y			9.2	11.9
bh			9.3	11.8
	+10'		9.4	11.7
S			11.7	9.4
	175'	W of	15th	st
S			11.7	9.4
	+4		9.9	11.2
bh			9.7	11.4
y			9.7	11.4
	+6' = 2' S Rail		9.7	11.4
b	Rail		9.6	
	+2' = 2' n Rail		9.7	11.4
y			10.0	11.1
bh			9.9	11.2
n			10.7	10.4

21.06

L st 22

196' W = Pueblo Line (W S Sherman)

n			10.7	10.4
bh			10.3	10.8
y			10.2	10.9
	+11' = 2' n Rail		10.0	11.1
b = Rail			9.8	
	+7' = 2' S Rail		9.8	11.3
y			10.0	11.1
bh			10.2	10.9
S			11.3	9.8

L st offsets 6.5 to n at PL

7 Clough
20 ~~Dunn~~
10 Rogers

X Sec of Ingals st (50)

S L of Getti to P L

3,46	279,33		275,87	BM SE Lewis Ingals
3,56	277,56	5,33	274,00	

S L of Getti st (Graded)

W			3,3
bl			3,6
y			4,0
b			4,2
y			4,6
bl			4,9
E			4,5

25' S of Getti st

E			4,7
bl			4,7
y			4,6
b			4,4
y			4,3
bl			4,3
W			4,1

277,56

Ingalls st

50' S of Getti st

W			4,6
bl			4,6
y			4,6
b			4,8
y			4,8
bl			5,0
E			4,9

75' S of Getti st

E			4,9
bl			5,1
y			5,0
b			5,0
y			4,9
bl			5,0
W			5,3

		27756			
	100	S of	Getti st		
W			58		
bh			55		
y			53		
b			53		
y			52		
bh			55		
E			51		
	125	S of	Getti		
E			61		
bh			59		
y			58		
b			58		
y			60		
bh			62		
W			66		

		27756			
	150	S of	Getti st		
W			74		
bh			71		
y			70		
b			69		
y			68		
bh			71		
E			73		
	175	S of	Getti st		
E			89		
bh			87		
y			84		
b			83		
y			84		
bh			87		
W			89		

27756

200' S of Getti st

W	10.3
bl	10.3
y	10.1
l	10.0
y	10.0
bl	10.2
E	10.0

225' S of Getti st

E	11.3
bl	11.4
y	11.8
l	11.9
y	11.8
bl	11.8
W	11.4

27756

250' S of Getti st

W	12.7	26 4.9
bl	13.1	
y	13.0	
l	13.2	
y	13.2	
bl	13.1	
E	13.1	
TP	7.36 27170	13.02 26454

275' S of Getti

E	9.2
bl	9.2
y	9.3
l	9.0
y	8.5
bl	7.9
W	6.9

271.90

300' S = N S of Washington st (50)

W	6.2
bl	6.9
y	7.4
b	8.6
y	9.6
bl	10.7
E	11.0

N bb of Washington st

E	12.0
bl	10.9
y	9.7
b	8.5
y	7.5
bl	6.8
W	6.2

271.90

N 1/4 of Washington

W	6.0
bl	6.7
y	7.5
b	8.6
y	9.8
bl	11.2
E	12.1

Center of Washington

E	12.5
bl	11.3
y	9.8
b	8.6
y	7.4
bl	6.6
W	5.6

27.90

S 1/4 of Washington

W	5.3
bl	6.3
y	7.3
b	8.7
y	10.2
bl	11.5
E	12.8

S bb of Washington

E	12.9
bl	11.7
y	10.2
b	8.6
y	7.2
bl	5.9
W	4.6

27.90

Intervals
27

S L of Washington

W	3.9
bl	5.2
y	7.1
b	8.7
y	10.2
bl	11.8
E	13.2

25 S of Washington

E	13.1
bl	11.7
y	10.4
b	8.9
y	7.1
bl	5.2
W	2.9

50' S of Washington

W	3.8
75'	5.4
bl	6.6
4	7.9
b	9.5
4	10.8
bl	12.0
E	13.8

75' S of Washington

E	14.9
bl	12.7
4	11.5
b	10.5
4	9.3
bl	8.1
+10'	6.8
W	5.4

100' S of Washington

W	8.1
bl	9.5
4	10.6
b	12.0
4	13.0

TP	4.61	26.367	12.84	25.906

bl	6.1
E	8.1

125' S of Washington

E	12.2
bl	8.6
4	6.5
b	5.0
4	3.5
bl	2.3
W	1.3

L6367

	150	S of	Washington
W			2.2
bl			3.7
y			4.2
b			5.7
y			7.7
bl			10.8
E			15.8
	175	S of	Wash
E			13.4
bl			10.5
y			7.7
b			6.4
y			5.1
bl			4.1
W			3.0

L6367

	200	S of	Washington	
W			3.8	
bl			4.7	
y			5.3	
b			6.0	
y			7.1	
bl			8.6	
E			13.0	
	225	S of	Wash	
E			14.0	
bl			10.1	
y			8.2	
bl			7.0	
y			5.9	
bl			5.5	
W			4.8	
TP	0.99	25-8.35	6.31	25-7.36

258.35

	250'	S of	Washington
W			1.00
bb			1.5
y			2.2
b			3.2
y			4.6
bb			8.3
E			12.0
	275	S of	Washington
E			17.0
bb			13.3
y			10.1
b			7.5
y			5.2
bb			3.4
W			2.5

258.35

Ingals

	280'	S of	Washington	
W			2.7	
bb			4.3	
y			6.1	
b			8.4	
y			11.4	
bb			14.2	
E			17.4	
	300'	S = N S of	Douglass st (50)	
W			9.8	
bb			9.0	
y			10.3	
b			12.9	
TP	0.39	245.80	12.94	245.41
y			3.6	
bb			5.9	
E			8.7	

W bk of Douglass

E	10,1
bk	7,2
y	5,4
b	2,7
y	0,0
bk	0,0
W	2,4

N 1/4 of Douglass

W	5,4
bk	2,3
y	1,6
b	4,4
y	6,5
bk	8,4
E	11,0

Center of Douglass

E	12,0
bk	9,8
y	8,2
b	6,2
y	3,5
bk	4,7
W	7,5

S 1/4 of Douglass

W	9,3
bk	7,0
y	5,5
b	7,6
y	9,6
bk	11,3
E	13,2

24580

S bk of Douglass

E			14,8	
bk			12,7	
4			10,7	
6			8,6	
4			6,8	
bk			8,4	
W			11,1	

S d of Douglass

W			12,9	
bk			9,5	
4			8,6	
6			10,7	
4			12,8	
TP	0,50	233,29	130,1	232,79
bk			2,2	
E			4,3	

23329

25' S of Douglass

E			7,9	
bk			6,2	
4			5,0	
6			3,5	
4			1,8	
bk			0,9	
W 76'			1,4	
			3,6	

50' S of Douglass

W			9,2	
bk			5,3	
4			5,8	
6			7,5	
4			9,0	
bk			10,0	
E			12,2	
TP	0,56	222,54	111,1	222,98

	75'	S f	Douglass	
E			5.6	
bk			4.0	
y			2.0	
b			0.9	
y			0.1	
bk			1.1	
W			3.0	
	100	S f	Douglass	
W			7.8	
bk			8.1	
y			8.2	
b			8.7	
y			9.9	
bk			11.0	
E			13.0	
TP	00	20956	12.98	20956

	125	S f	Douglass	
E			7.4	
bk			5.4	
y			4.4	
b			2.7	
y			3.2	
bk			2.6	
W			1.9	
	150	S f	Douglass	
W			9.2	
bk			9.9	
y			10.6	
b			11.5	
y			13.0	
TP	150	19808	12.98	19658
bk			3.5	
E			4.6	

19808

181' S = Pueblo Sen S Arnold & Chent

E	12,5
bh	12,2
y	11,0
b	9,1
y	7,8
bh	7,3
w	7,2

X Sec of Union St (75')

N S of Thorne to N S of Apas (80)

Bm

9.52 | 219.25 | 209.73

N S of Thorne

E	7.9
bh	7.4
y	7.1
b	7.2
y	7.8
bh	8.6
W	9.4

25' N of Thorne

W	7.9
bh	7.7
y	7.1
b	6.9
y	6.3
bh	6.5
E	6.9

219.25

Union

50' N of Thorne st

E	6.0
bh	5.4
y	5.2
b	5.7
y	6.0
bh	6.7
W	7.0

75' N of Thorne

W	6.0
bh	5.7
y	5.2
b	4.8
y	4.7
bh	4.4
E	4.8

21925

100' n of Thorne

E	4.0
bk	3.5
y	3.5
b	4.3
y	4.3
w	5.1
w	5.2

175' n of Thorne

w	4.8
bk	4.2
y	3.7
b	3.4
y	3.1
bk	2.3
E	2.7

21925

150 n of Thorne st

E	1.6
bk	1.3
+8'	1.4
+9'	2.0
y	2.0
b	2.8
y	3.2
bk	3.8
w	4.3

175' n of Thorne st

w	5.2
bk	4.2
y	3.2
b	2.4
y	2.1
+7'	1.0
bk	0.5
E	0.6

TP 148 22018 055 21870

220,18

	200	n of	Thorne
E			1,0
bh			1,5
+3' +6'			1,7
y			2,8
			2,7
b			3,6
y			4,5
bh			6,0
w			7,2
	225	n of	Thorne st
w			9,1
bh			7,3
y			5,6
b			4,0
y			3,5
+12'			2,5
bh			1,4
E			0,7

220,18

	250	n of	Thorne st
E			0,7
+8' +10'			1,4
bh			2,7
			2,9
y			4,1
b			4,4
y			6,2
bh			8,2
w			10,6
	275'	n of	Thorne st
w			12,2
bh			10,0
y			7,8
b			5,4
y			4,3
bh			3,4
+4' +10'			2,4
E			1,0
			1,0

		220.18		
	30'	W = S L of Upas st (80')		
E			2,3	
+4'			3,4	
bh			4,1	
y			4,7	
l			5,9	
y			8,9	
bh			11,3	
W			13,7	
TP	0,31	217.61	2,88	217,30
	S	bh of	Upas st	
W			11,6	
bh			9,4	
y			7,0	
l			4,1	
y			2,1	
bh			1,3	
E			0,3	

		217.61		Union
	S	1/4 of	Upas st	
E			0,2	
bh			1,5	
y			2,2	
l			4,6	
y			7,1	
bh			9,8	
W			12,4	
	Center	of	Upas st	
W			12,8	
bh			10,4	
y			7,9	
l			4,8	
y			2,8	
bh			1,7	
E			0,4	

21761

N 1/4 of Aspect

E	1,0
bb	2,7
y	3,7
l	5,6
y	7,9
bb	10,6
W	13,8

N bb of Aspect

W	14,6
bb	11,6
y	8,4
l	6,8
y	4,3
bb	3,4
E	1,6

21761

N Line of Aspect

E	2,9
44'	4,0
bb	4,2
y	5,0
l	7,3
y	10,0
bb	12,9
W	15,9

7 | Clough
25 | Simmons
10 | Rogers

X Sec of Arctic St (75)

S L Cedar to S L Winder St

	1,34	36.31		34.97	BM S L Indian & Cedar
	5,95	31.97	10,29	26,02	

S L of Cedar St (80')

E		5,7		
bl		5,8		
y		6,0		
	+2' = 2' E Rail	6,2		
		6,2	26.8	
b	Top of Rail	6,2		
	Double Track			
	+10' = 2' W of Rail	6,7		
y		6,9		
bl		7,2		
w		7,5		

S bb of Cedar St

w		(8,0 / 7,0)		
bl		6,9		
y		6,8		
	+3' = 2' W Rail	6,5		
b		6,0		
	+11' = 2' E Rail	6,2		
y		6,1		
bl		6,1		
E		5,4		

31.97

S bb + 6'

w		8,5		
bl		8,5		
	+3'	6,9		
y		6,8		

S bb + 7'

w L		6,6		
bl		6,5		
y		6,6		

S 1/4 of Cedar St

w		6,3		
bl		6,2		
y		6,3		
	+3' = 2' W Rail	6,1		
b		5,8		
	+11' = 2' E Rail	5,6		
y		5,6		
bl		5,2		
E		5,2		

3197

Center of Cedar

E	4,7
bl	5,1
y	5,5
+2' = 2' E Rail	5,6
b	5,7
+9.5 = 2' W Rail	5,8
y	6,0
bl	6,2
W	6,9

N ¼ of Cedar

W	6,1
bl	5,9
y	5,8
+41' = 2' W Rail	5,7
b	5,4
+11' = 2' E Rail	5,4
y	5,4
bl	4,6
E	4,3

3197

arctic

N ¼ +7'

W	6,5
bl	6,2
y	6,0

N ¼ +10'

W	8,4
bl	8,2
+2'	(8,1 6,4)
y	6,0

N ¼ +12'

W	6,4
bl	1,4
y	6,2

31.97

N bh of Cedar st

W		6.6
bh		6.0
y		6.2
b	+5' = 2' W Rail	5.8
		5.2
y	+11'	5.8
		6.0
bh		5.2
E	+6'	5.3
		4.2

N S of Cedar st

E		3.5'
bh		3.6
y	+4' +11'	3.7
		3.9
b	+2' = 2' E Rail	5.5
		5.5
	El. Rail	5.0
y	+6' = 2' W Rail	5.7
		5.0
bh		4.9
W		5.5

26.5

31.97

Arctic st

42

25' N of Cedar st

W		4.4
bh		4.0
y		3.5
b	+2' +7' = 2' W Rail	5.2
		5.4
		4.8
y	+8' = 2' E Rail +10'	5.0
		5.3
		2.9
bh		2.2
E		1.6

50' N of Cedar st

E		0.8
bh		1.2
y		1.7
b	+1' +6' = 2' E Rail	4.0
	Single track in N	5.0
		4.5
y	+4.5' = 2' W Rail +10'	5.1
		5.4
		3.3
bh		4.0
W		4.5

75' n of Cedar St

W 4,5

bl 4,2

y 3,3

+3' 5,2
+9' = 2' W Rail 4,8
4,5

+6' = 2' E Rail 4,8
y +9 4,6
3,5
+2 1,2

bl 1,2

E 0,7

100' n of Cedar St

E 0,9

bl 1,5
+12 1,5

y 2,0
+6,5' = 2' E Rail 4,7

b 4,1
+2,5' = 2' W Rail 4,7
y +10' 4,9
3,4

bl 4,2

y 4,5

125' n of Cedar St

W 5,0

bl 4,4

3,5
y +3 4,7
+11 = 2' W Rail 4,5

b 4,0
+7' = 2' E Rail 4,4
+12 4,5
y 4,0

bl 2,0

E 1,2

150' n of Cedar St

E 1,8

bl 2,4

y 2,2
+6' = 2' E Rail 4,2

bl 3,8
+2,5' 4,3

y 4,0

bl 4,9

W 5,3

31.97

175' n f Cedar st

W		5,8
bh		5,2
y		4,5
+10' = 2' w Rail		4,2
b		3,6
+6,5 = 2' E Rail		3,9
y +11'		2,7
		2,7
bh		2,8
+10'		1,9
E		1,8

200' n f Cedar

E		2,0
+4'		2,4
bh		2,7
y		2,9
+4'		3,0
+6' = 2' E Rail		3,7
b		3,4
+2' = 2' w Rail		4,0
+5'		3,8
y		4,7
bh		5,4
W		5,4

6,11 34.88 32,0 28.77

34.88

Archie 2

44

225' n ff Cedar st

W		8,3
bh		8,3
y		7,8
+10' = 2' w of Rail		6,7
b		6,1
+6' = 2' E of Rail		6,3
y		5,7
bh		5,6
E		4,7

250' n f Cedar st

E		4,4
bh		5,4
y		5,3
+4 = 2' E Rail		6,0
b		5,7
+3' = 2' w Rail		6,5
y		7,7
bh		8,2
W		8,2

275' n of Cedar st

W		8.1
bl		7.9
y		7.3
+9' = 2' w of Rail		6.3
b		5.5
45' = 2' E of Rail		5.4
y		5.0
bl		5.0
E		4.3

300' n = S ℄ of Date st (80)

E		4.6
bl		4.8
y		4.9
+85' = 2' E of Rail		5.2
b El of Rail		4.8
45' = 2' w of Rail		6.0
y		6.4
bl		7.5
W		7.8

30 1

S bk of Date st

W		6.7
bl		5.9
+2'		6.7
y		7.2
+7.5'		5.6
b		5.7
+4'		5.1
y		4.8
bl		4.9
E		4.5

S ¼ of Date st

E		4.5
bl		4.6
y		5.2
+10' = 2' E of Rail		4.7
b		4.6
+65' = 2' w of Rail		5.2
y		5.9
bl		6.3
W		6.8

3488

Center of Date st

W 6.7

bl 6.1

y 5.4

+6' = 2' W of Rail 4.9

b 4.6

+2' = 2' E of Rail 4.6

y 5.3

bl 4.6

E 4.0

N ½ of Date st

E 4.6

bl 4.9

y 4.2

+12' = 2' E of Rail 4.3

b 4.4

+8' = 2' W of Rail 4.9

y 5.1

bl 5.9

W 6.5

3488

Arctic st

16

N bl of Date st

W 6.6

bl 6.3

y 5.6

+4' = 2' W of Rail 5.1

b = 2' E of Rail 5.0

y 5.4

bl 4.7

E 4.5

N Sur of Date st

E 3.5

bl 3.6

y 4.0

b El of Rail 3.9 4.8 30.1

+25' = 2' E Rail 4.8

X +10 = 2' W of Rail 5.0

y 5.0

bl 5.8

W 6.9

	N S f	Date on	W } 60		
	12.5 n f	" "	E }		
E			2,7		
bh			3,5		
y			3,8		
b = 2' E Rail			4,7		
+9' = 2' W Rail			5,0		
y			5,2		
bh			6,0		
w			6,9		
	25'	n f	Date	st	
W			6,7		
bh			5,9		
y			5,0		
+5.5' = 2' W Rail			4,8		
b			4,3		
+2'			4,4		
y			3,6		
bh			3,5		
E			2,6		

34,88

Arctic st

17

	50'	n f	Date	st	
E			2,5		
bh			3,2		
y			3,3		
+9.5 = 2' E Rail			4,2		
b			3,8		
+6' = 2' W f Rail			4,5		
y			5,0		
bh			5,9		
W			6,6		
	75'	n f	Date	st	
W			6,4		
bh			5,4		
y			4,8		
+7.5 = 2' W Rail			3,6		
b			3,5		
+4' = 2' E Rail			3,8		
y			3,2		
bh			2,9		
E			2,2		

3488

	100'	n f	Date	st
E			2,0	
bb			2,7	
y			3,1	
	48' = 2' E Rail		3,6	
b			3,3	
	44 = 2' W y Rail		3,4	
y			4,8	
bb			5,2	
W			6,1	

TP 3,83 3571 < 3,10 3178

	125'	n f	Date	st
W			6,8	
bb			6,1	
y			5,7	
	49' = 2' W Rail		4,5	
b			3,0	
	55' = 2' E Rail		4,1	
y			3,7	
bb			3,2	
E			2,4	

3561

Arctic st

18

	150'	n f	Date	st
E			2,0	
bb			2,6	
y			3,7	
	175 = 2' E y Rail		3,6	
b			3,6	
	44' = 2' W Rail		4,2	
y			5,3	
bb			3,8	
W			6,6	

	175'	n f	Date	st
W			6,7	
bb			5,8	
y			5,1	
	48' = 2' W Rail		4,1	
b			3,3	
	45' = 2' E Rail		3,6	
y			3,4	
bb			2,2	
E			1,6	

3561

	200'	n f	Date st
E			1,4
bb			2,7
y			3,2
	+8' = 2' E Rail		3,4
b			3,1
	+4' = 2' W Rail		3,9
y			5,0
bb			5,6
W			6,5
	225	n f	Date st
W			6,1
bb			5,3
y			4,8
	+8' = 2' W Rail		3,7
b			2,8
	+4' = 2' E Rail		3,2
y			2,8
bb			2,4
E			1,3

3561

	250	n f	Date st
E			1,6
bb			2,6
y			2,5
	+9' = 2' E Rail		3,0
b			2,6
	+5' = 2' W Rail		3,5
y			4,5
bb			5,1
W			6,1
	275'	n f	Date st
W			5,8
bb			4,9
y			4,0
	+7' = 2' W Rail		3,3
b			2,4
	+3' = 2' E Rail		2,8
y			2,3
bb			2,0
E			1,4

300' n of	Date
E	0.7
bh	1.7
y	2.0
+11' = 2' E Rail	2.7
b	2.6
+7' = 2' W Rail	3.1
y	3.5
bh	4.5
W	5.4

325' n of	Date
W	4.7
bh	4.1
y	2.7
+4' = 2' W Rail	2.8
b	2.2
+0.5' = 2' E Rail	2.4
y	1.5
bh	1.3
E	0.4

331' n = Sd Fri st on W (80)	
E	0.1
bh	1.2
y	1.4
b = 2' E Rail	2.0
+9 = 2' W Rail	2.8
y	2.6
bh	3.8
W	4.1

336' n on W 348.5' n on E } = Sd Fri st (80)	
W	4.1
bh	3.7
y	2.5
+3' = 2' W Rail	2.6
+4' = 2' E Rail	2.9
b	2.0
El Rail 342'	
y	1.6
bh	0.9
E	0.8
TP 482	3827 2.16 3345

S bb of Fir st

E		4,1
bl		4,2
y		4,7
	+12 = 2' E Rail	~~4,6~~
b		4,6
	+8 = 2' W Rail	5,2
y		4,8
bl		5,6
W		6,3

S 1/4 of Fir st

W		6,2
bl		5,7
y		4,8
	+5' = 2' W Rail	4,7
b		4,2
	+2' = 2' E Rail	4,3
y		4,2
bl		4,3
E		3,9

Arctic ca

Center of Fir st

E		3,8
bl		4,0
y		4,2
	+10' = 2' E Rail	4,2
b		4,2
	+7' = 2' W Rail	4,6
y		4,9
bl		5,6
W		6,2

N 1/4 of Fir st

W		6,5
bl		5,7
y		4,8
	+7' = 2' W Rail	4,5
b		4,3
	+3' = 2' E Rail	4,3
y		3,7
bl		3,7
E		3,3

3827

	N	bb f	Fir st
E			3,4
bb			4,5
y			3,5
b	+9' = 2' E Rail		5,3
			4,5
	+ 6' = 2' W Rail		5,6
y			5,7
bb			6,5
W			6,7
	N S f		Fir st
W			6,5
bb			5,8
y			4,6
b	+3		4,5
	+7,5 = 2' W Rail		5,3
	+4' = 2' E Rail	b	4,6
y			4,8
			3,0
bb			3,4
E			2,9
	El of Rail		42

3827

Arctic st 1

	25'	N f	Fir st
E			1,5
bb			2,0
y			2,4
b	+9' = 2' E Rail		4,8
			4,8
	+5' = 2' W Rail		5,2
	+10'		3,8
y			4,6
bb			5,9
W			6,5
	50'	N f	Fir st
W			6,2
bb			5,5
y			4,7
b	+3'		4,3
	+8' = 2' W Rail		5,3
			4,6
	+4'' = 2' E Rail		5,1
y	+7'		5,3
			2,7
bb			2,5
E			1,5

75' n of Fir st

E		0.7
	+1'	1.7
bh		2.6
y		2.9
	+4'	2.9
b	+8' = 2' E of Rail	5.2
		4.8
y	+5' = 2' W Rail	5.3
	+9	4.5
		4.7
bh		5.7
W		6.2

100' n of Fir st

W		6.3
bh		5.4
y		4.6
	+4'	4.5
b	+8' = 2' W Rail	5.4
		4.8
y	+4' = 2' E Rail	5.3
	+10'	3.0
		3.0
bh		2.3
E		1.5

125' n of Fir st

E		2.3
bh		3.0
y		3.5
	+4'	3.4
b	+9' = 2' E Rail	5.3
		4.8
y	+5' = 2' W Rail	5.2
	+11'	4.7
		4.7
bh		5.6
W		6.3

150' n of Fir st

W		6.6
bh		5.7
y		4.8
	+2'	4.8
b	+7.5' = 2' W Rail	5.5
		4.9
y	+4' = 2' E Rail	5.3
	+10'	3.3
		3.8
bh		2.8
E		2.3

38.27

175' n of Fir st

E			1,8	
bh			3,1	
y			4,0	
	+5'		4,2	
b	+9' = 2' E Rail		5,4	
	+5' = 2' W Rail		5,0	
	+12'		5,6	
y			5,0	
			5,2	
bh			6,0	
W			6,8	
TP	3,85	37.21	4,91	33.36

200' n of Fir st

W			5,6	
bh			4,9	
y			4,6	
	+8' = 2' W Rail		4,4	
b			4,0	
	+4 = 2' E Rail		4,4	
y	+9'		3,6	
			3,7	
bh			2,7	
E			1,0	

37.21

Arctic st

225' n of Fir st

E			1,4	
bh			2,8	
y			4,6	
	+9' = 2' E Rail		4,4	
b			4,0	
	+5' = 2' W Rail		4,3	
	+11		4,5	
y			5,9	
bh			5,8	
W			6,8	

250' n of Fir st

W			8,0	
bh			7,0	
y			6,8	
	+5		4,6	
b	+8' = 2' W Rail		4,3	
			4,0	
	+4 = 2' E Rail		4,6	
y			5,1	
	+8		4,8	
bh			3,7	
E			2,6	

275' N of Fir st

E		3,2
bh		4,2
	+5'	5,2
y		5,6
	+6'	5,4
b	+9 = 2' E Rail	4,6
		4,0
	+5' = 2' W Rail	4,5
y		7,2
bh		7,8
W		10,8

295' N of Fir st

W		9,6
bh		9,0
y		7,4
	+5'	4,8
b	+9 = 2' W Rail	3,8
	+4 = 2' E Rail	4,9
y		5,7
bh		5,3
	+11	3,4
E		2,6

Arctic st

300' N = S Line of Grape st (80') (Graded)

E			4,0		
bh			4,8		
y			5,2		
	+9' = 2' E Rail		4,8		
b			4,0		
	+5 = 2' W Rail		4,4		
y			7,0		
	+10'		7,6		
bh			6,4		
W			6,6		
	El Rail		3,6		
TP	6,15	3978	3,58	33,63	BM

N Line of Grape st

W		8,3
bh		8,6
y		8,3
	+7' = 2' W Rail	6,8
b	(El Rail 339)	6,2
	+3,5' = 2' E Rail	6,6
y		6,8
bh		6,3
	+1'	5,6
		6,3

1' N of Grape St

E		6,2
	+10	5,6
bh		6,5
y		6,8
	+9' = 2' E Rail	6,6
b		6,2
	+5' = 2' W Rail	6,7
y		7,4
bh		7,1
W		6,8

25' N of Grape

W		5,1
	+6'	4,6
bh		5,1
y		5,1
	+2'	6,6
	+7' = 2' W Rail	6,7
b		6,2
	+3,5' = 2' E Rail	6,6
	+7'	6,3
	+9	4,8
4h		5,2
bh		3,6
E		2,4

50' N of Grape

E		0,9
bh		1,8
y		3,6
	+4'	3,7
	+7'	6,2
	+9' = 2' E Rail	6,6
b		6,2
	+5 = 2' W Rail	6,7
	+8'	6,8
y		5,7
	+5	4,3
bh		4,2
W		4,9

75' N of Grape St

W		4,6
bh		4,1
	+8'	3,9
y		5,2
	+5'	7,0
	+7' = 2' W Rail	6,7
b		6,2
	+3,5' = 2' E Rail	6,7
	+5	6,6
y		2,6
bh		2,0
E		1,2

39.78

100' n f Grape st

E		0,9
bh		1,7
y		3,0
	+3'	3,1
	+9' = 2' E Rail	6,8
b		6,3
	+5 = 2' W Rail	6,7
	+8'	6,8
y		4,3
bh		4,5
		4
W		4,6

125' n f Grape st

W		4,7
bh		4,7
	+7'	4,1
y		4,7
	+5'	6,9
	+7' = 2' W Rail	6,9
b		6,3
	+3,5 = 2' E Rail	6,8
y	~~+5~~	3,5
bh		2,1
E		1,4

39.78

150' n f Grape st

E		2,5
bh		3,0
y		3,7
	+4'	4,1
	+9' = 2' E Rail	7,8
b		6,5
	5,5' = 2' W Rail	7,0
		5,2
y	+5'	4,7
bh		5,2
W		5,4
	El Rail	6,2

175' n f Grape

W		6,3
bh		5,9
y		5,6
	+7' = 2' W Rail	7,3
b		6,7
	+3,5 = 2' E Rail	7,2
y	+8'	4,9
		4,3
bh		3,5
E		3,7

39.78

200' n of Grape

E			4,2	
bh			4,3	
y			5,2	
	+4'		5,5	
b	+9' = 2' E Rail		7,3	
			6,9	
	+5,5' = 2' W Rail		7,3	
	8'		7,6	
y			6,3	
bh			6,7	
W			7,0	

225' n of Grape st

W	?		8,1	
bh			7,4	
	+8'		6,7	
y			7,0	
	+7' = 2' W Rail		7,6	
b			7,0	
	+3,5' = 2' E Rail		7,6	
	+10'		6,0	
y			5,6	
	+6'		5,9	
bh			4,7	
E			4,5	
TP	3,77	36,55	7,00	32,78

36,55

Arctic st

250' n of Grape st

E			1,5	
bh			1,7	
y			2,8	
	+4'		2,9	
b	+9' = 2' E Rail		4,6	
			4,0	
	+3,5' = 2' W Rail		4,6	
y			4,2	
bh			4,8	
W			5,3	

275' n of Grape

W			6,1	
bh			5,4	
y			4,4	
	+7' = 2' W Rail		4,9	
b			4,1	
	+3,5' = 2' E Rail		4,7	
	+6'		4,8	
y	+8'		3,1	
			2,8	
bh			2,2	
E			1,4	

36.55

298' n of Grape st

E		1.5
bh		3.0
	+2'	3.6
y		3.0
	+2'	2.5
	+6'	4.6
b	+9' = 2' E Rail	5.0
		4.5
	+5.5' = 2' W Rail	5.0
y		5.0
bh		5.6
W		5.8

300' n = S S of Hawthorne st (80) (Graded)

W		5.5
bh		5.8
	+15'	5.1
y		4.7
	+7' = 2' W Rail	5.0
b		4.6
	+3.5' = 2' E Rail	5.0
	+9'	3.2
y		3.5
bh		3.5
E		3.0
	E l Rail	4.2

TP	2.89	34.42	5.02	31.53

34.42

Arctic st

N Line of Hawthorne st

E		2.2
bh		2.5
y		3.2
	+9' = 2' E Rail	3.4
b		2.9
	+5.5' = 2' W Rail	3.5
y		4.8
bh		5.1
W		5.0
	E l Rail	2.5

25' n of Hawthorne st

W		6.1
bh		5.9
y		5.7
	+7' = 2' W Rail	3.8
b		3.0
	3.5' = 2' E Rail	3.4
y		3.6
bh		3.4
E		2.5

50' N of Hawthorne st

E		2,5
bh		3,5
y		3,9
b	+9 = 2' E Rail	3,7
		3,0
y	+5,5 = 2' W Rail +8'	3,7 4,0 5,8
bh		6,0
W		6,0

75' N of Hawthorne st

W		6,0
bh		5,7
y		5,2
b	+7' = 2' W Rail	4,1
		3,2
y	+3,5 = 2' E Rail	3,6
		3,9
bh		3,3
E		1,7

100' N of Hawthorne st

E		1,4
bh		2,4
y		3,5
b	+9' = 2' E Rail	3,8
		3,4
y	+5,5 = 2' W Rail +9'	3,9 5,0 5,1
bh		5,7
W		5,9

125' N of Hawthorne st

W		5,7
bh		5,5
y		5,0
b	+4' +7' = 2' W Rail	4,8 4,0 3,4
y	+3,5' = 2' E Rail	3,9 3,1
bh	+8'	3,0 2,0
E		1,1

150' n of Hawthorne st

E		1,0
bh		2,0
	+8'	2,8
y		2,6
	+3'	2,5
b	+9' = 2' E Rail	4,0
	+5.5' = 2' W Rail	3,5
	+7'	4,1
y		4,2
		5,0
bh		5,5
W		5,6

175' n of Hawthorne st

W		6,0
bh		5,6
y		5,0
	+7' = 2' W Rail	4,2
b		3,7
	+3.5' = 2' E Rail	4,2
y		3,0
bh		2,8
E		1,4

200' n of Hawthorne st

E		1,9
bh		3,0
y		3,4
	+3	3,3
	+9'	4,2
b		3,8
	+5.5	4,4
	+9'	4,6
y		5,3
bh		5,7
W		5,9

TP 280 3339 3.83 30.59

225 n of Hawthorne st

W		5,4
bh		5,2
y		4,7
	+4'	3,5
	+7' = 2' W Rail	3,5
b		2,8
	+3.5' = 2' E Rail	3,3
y		2,9
bh		2,5
E		1,7

3339

250 n of Howitson st

E	2,0
bh	3,0
y	3,6
+8.5 = 2' E Rail	3,6
b	3,0
+5 = 2' W Rail	3,7
y	4,9
bh	5,5
W	6,2

275' n of Howitson

W	6,0
bh	5,7
y	5,0
7.5 = 2' W Rail	3,7
b	3,0
+4' = 2' E Rail	3,4
y	3,6
bh	3,1
E	2,8

3339 Arctic st

300' n = S L Ivy st (80) 61

E	2,5
bh	2,8
y	3,2
+8.5 = 2' E Rail	3,4
b	2,9
+5 = 2' W Rail	3,7
y	5,2
bh	5,8
W	6,4

TD 2.85 3344 2,80 3059

S bl of Ivy st

W	6,0
bh	5,6
y	5,2
+2'	5,1
+7.5 = 2' W Rail	3,8
b	3,0
+4' = 2' E Rail	3,6
y	3,0
bh	3,0
E	2,6

S 1/4 of Ivy st

E	2,4
bk	2,7
4	2,9
+85 = 2' E Rail	3,5
b	3,0
+5 = 2' W Rail	3,6
4 +9'	4,9
	5,0
bk	5,4
W	5,6

Center of Ivy st

W	5,3
bk	5,2
4	4,7
+3'	4,6
+7,5 = 2' W Rail	3,4
b	2,9
+4' = 2' E Rail	3,4
4	3,8
bk	2,6
E	2,2

N 1/4 of Ivy st

E	1,8
bk	2,4
4	2,4
+80' = 2' E Rail	3,3
b	2,8
+45 = 2 W Rail	3,4
4 +9'	4,3
	4,5
bk	5,0
W	5,0

N bk of Ivy st

W	5,1
bk	4,9
4	4,3
+5	4,3
+8' = 2' W Rail	3,3
b	2,8
+45 = 2' E Rail	3,3
4	2,4
bk	2,1
E	1,7

3344

N Line of Ivy st

E		1,7
bh		2,0
y		2,5
	+6'	2,7
b	+8' = 2' E Rail	3,8
	+4,5' = 2' W Rail	2,7
y	+8'	3,2
		4,0
		4,3
		~~4,8~~
bh		48
W		51
	E Rail	2,4

25' N of Ivy st

W		5,0
bh		4,6
y		4,0
	+4'	3,7
b	+8' = 2' W Rail	3,1
	+4,5' = 2' E Rail	2,6
y		3,3
		2,5
bh		1,7
E		1,4

50' N of Ivy st

E		0,7
bh		1,2
y		2,0
	+5'	2,1
b	+8' = 2' E Rail	3,0
	+4,5' = 2' W Rail	2,5
y	+8'	2,9
		3,5
		3,7
bh		4,2
W		4,2

75' N of Ivy st

W		3,5
bh		3,6
y		3,3
	+8' = 2' W Rail	2,8
b		2,4
	+4,5' = 2' E Rail	2,9
	+6'	3,0
	+10'	1,0
y		0,7
TP	4,05	35,07	2,42	31,02
bh		1,9
E		1,1

	100'	n of	Ivy st
E			0,6
bh			0,9
y			2,1
b	+4' 78' = 2' E Rail		2,2
			4,6
			4,1
	+45' = 2' W Rail		4,5
y			4,7
bh			5,0
W			4,7

	125'	n of	Ivy st
W			4,6
	+2'		5,1
bh			5,1
y			4,8
b	+85 = 2' W Rail		4,5
			4,1
	+5'		4,6
	+10'		2,3
y			1,8
bh			1,4
E			0,7

Arctic st

64

	150'	n of	Ivy st
E			1,8
bh			2,1
y			2,8
b	+3' +75 = 2' E Rail		3,0
			4,6
			4,2
	7 +8' = 2' W Rail		4,6
			5,0
y			5,4
bh			5,7
W			5,5

	175'	n of	Ivy st
W			6,8
bh			6,6
y			6,1
	+3'		5,9
b	+85 = 2' W Rail		5,0
			4,3
	+5' = 2' E Rail		4,6
y	+9'		5,0
			4,3
bh			3,9
E			3,0

35.07

200' N of Ivy St

E 4.5

bk 4.9

y 5.1
+7.5' = 2' E Rail 4.8
b 4.3
+4' = 2' W Rail 5.1
y +8' 6.8
7.0

bk 7.5

W 8.3

225' N of Ivy St

W 9.2

bk 8.4

y 7.9
7.7
+3'
b +8.5' = 2' W Rail 5.1
4.3
+5.1' = 2' E Rail 5.0
y +8' 5.2
6.3

bk 5.5

E 5.4

250' N of Ivy St

E 5.7

bk 5.8

y 6.3
+3' 6.2
+7.5' = 2' E Rail 4.9
b 4.4
+4' = 2' W Rail 5.2
+9' 8.0
y 8.2

bk 8.7

W 9.4

275' N of Ivy St

W 9.2

bk 8.3

y 7.7
+5' 7.3
b +9' = 2' W Rail 5.2
7.4
+5.5' = 2' E Rail 4.9
+8' 5.0
y 6.7

bk 5.8

E 6.1

3507

	300'	n =	S Q of Juniper st (80)	
E			6,2	28.9
bh			6,3	28.8
y			6,4	28.7
	+4'		5,3	29.8
b	+7' = 2' E Rail		4,8	30.3
			4,3	30.8
	+35' = 2' W Rail		5,1	30.0
y	+9'		7,7	27.4
			7,7	27.4
bh			8,0	27.1
	+8'		8,0	27.1
W			9,9	25.2
	E Rail		4,1	31.0
TP	4,12	3477	4,42	30.65
	S	bb of	Juniper st	
W			9,8	25.0
	+2'		9,8	25.0
	+4'		8,5	26.3
bh			8,1	26.7
y			7,8	27.0
	+4'		7,8	27.0
b	+9' = 2' W Rail		5,0	29.8
			4,2	
	+55' = 2' E Rail		4,7	30.1
y	+8'		5,1	29.7
			6,3	28.5
bh			5,9	28.9
E			5,8	29.0

3477

arctic st

	S	1/4 of	Juniper st	
E			5,7	29.1
bh			6,0	28.8
y			6,2	28.6
	+4'		5,1	29.7
b	+7' = 2' E Rail		4,6	30.2
			4,2	
	+35' = 2' W Rail		4,7	30.1
y	+9'		7,6	27.2
			7,6	27.2
bh			7,9	26.8
	+7'		8,3	26.5
	+9'		9,4	25.4
W			9,9	24.9
	Center of		Juniper st	
W			8,7	26.1
bh			7,7	27.1
y			7,2	27.6
	+3'		7,1	27.7
b	+9.5' = 2' W Rail		4,9	29.9
			4,2	
	+6' = 2' E Rail		4,6	30.2
y	+10		5,9	28.9
			6,0	28.8
bh			5,7	29.1
E			5,7	29.1

N ¼ of Juniper St

E	5.1	29.7
bl	5.5	29.3
y +6.5' = 2' E Rail	5.4	29.4
	4.6	30.2
b	4.1	
+3' = 2' W Rail	4.5	30.3
y +10'	6.6	28.2
	7.0	27.8
bl	7.2	27.6
+5'	7.3	27.5
W +8	8.2	26.6
	8.3	26.5

N bl of Juniper

W	7.0	27.8
bl	6.6	28.2
	5.8	29.0
y 9.5' = 2' W Rail	4.1	30.7
b	3.8	
+6' = 2' E Rail	4.0	30.8
y	4.3	30.5
bl	5.3	29.5
e	4.6	30.2

N Line of Juniper st

E +1'	2.5'	32.3
	2.5	32.3
	3.3	31.5
bl	3.7	31.1
y +6' = 2' E Rail	4.4	30.4
	4.2	30.6
b	3.9	
+3' = 2' W Rail	4.1	30.7
y	5.0	29.8
bl	5.8	29.0
W	6.0	28.8
El Rail	3.7	31.1

2.5' N of Juniper st

W	5.3	
bl	5.3	
y +10' = 2' W Rail	5.2	
	4.5	
b	3.9	
+6.5' = 2' E Rail	4.4	
y +9'	4.4	
	3.7	
bl	2.7	
e	2.5	

50' n of Juniper st

E		1,9
bh		2,6
		3,5
y		3,5
b	+3' +6' = 2' E Rail	4,4
		4,5
		4,0
y	+2,5 = 2' W Rail	4,4
		4,8
bh		5,1
W		4,9

75' n of Juniper

W		4,6
bh		4,8
y		4,4
b	+10' = 2' W Rail	~~4,0~~ 4,4
		4,0
y	+6,5 = 2' E Rail +8'	4,5
		4,5
		3,1
bh		2,6
E		1,3

100' n of Juniper st

E		0,2
bh	+5'	2,0
		2,0
y		2,4
b	+6' = 2' E Rail	4,5
		4,0
y	+2,5 = 2' W Rail +6	4,5
		3,9
		4,0
bh		4,4
W		4,2

125' n of Juniper

W		4,3
bh		4,2
y		4,1
b	+7' +10 = 2' W Rail	4,0
		4,8
		4,1
y	+6,5 = 2' E Rail +8'	4,5
		4,5
		2,2
bh		1,6
		1,7
E		0,7

3477

150' N of Juniper

E		1,6
bh		2,8
+11'		3,1
y		4,0
+6' = 2' E Bent		4,6
b		4,2
+2,5 = 2' W Bent		4,6
y		4,5
bh		4,4
W		4,0
		4,05 30.72 TP

Artic St is Continued

in Book ~~5 20~~ 3 71 Page 1

8/2/10 Clough Donnan Rogers

X Sec of 15th st (80)

S S of K to N S of M st

	4,60	21.08		16.48	Bm 15 & K
	S S of		K st (Graded)		
W			4,3	16.8	
bh +3'			4,6 5,0	16.5 16.1	
y			4,9	16.2	
b			4,2	16.9	
y			4,0	17.1	
bh			3,0	18.1	
E			2,8	18.3	
	3' S of		K st		
E			2,2	18.9	
bh			3,4	17.7	
y			4,0	17.1	
b			4,3	16.8	
y			5,0	16.1	
bh			4,9	16.2	
W			5,3	15.8	

21.08

15th st

	25'	S of	K st	
W			5,8	15.3
bh			5,0	16.1
y			4,8	16.3
b			3,8	17.3
y			3,0	18.1
bh			2,5	18.6
E			1,3	19.8
	50'	S of	K st	
E			2,3	18.8
bh			3,2	17.9
y			3,3	17.8
b			3.1.	18.0
+4'			3,4	17.7
y			4,7	16.4
bh			5,7	15.4
W			5,8	15.3

2108

75' S of K St

W	6,5	14.6
bl	5,7	15.4
y	5,0	16.1
bl	4,3	16.8
y	4,2	16.9
bl	3,8	17.3
E	3,0	18.1

100' S of K St

E	3,2	17.9
bl	3,9	17.2
y	4,1	17.0
b	4,5	16.6
y	5,2	15.5
bl	6,2	14.5
W	6,8	14.3

2108

125' S of K St

W	6,6	14.3
bl	6,4	14.7
y	5,2	15.9
b	4,2	16.9
y	3,4	17.7
bl	3,0	18.7
E	1,9	19.2

150 S of K St

E	1,1	20.0
bl	2,1	19.0
y	3,4	17.7
b	4,4	16.7
y	5,2	15.9
bl	6,1	15.0
W	7,2	13.9

21.08

175' S of K st

W	7,3	13.3
dbl	6,6	14.5
y	5,7	15.4
b	4,2	16.8
y	3,4	17.7
bl	2,8	18.3
E	1,3	19.6

200 S of K st

E	2,4	18.7
bl	3,6	17.5
y	4,4	16.7
b	5,1	16.0
y	6,3	14.8
bl	7,2	13.9
W	8,3	12.8
W	8,10	12,98

5,32 1530

1830

225' S of K st

W	5,8	12.5
bl	5,3	13.0
y	4,6	13.7
b	3,3	15.0
y	2,5	15.8
bl	1,7	16.6
E	0,4	17.9

250 S of K st

E	0,9	17.4
bl	2,1	16.2
y	3,0	15.3
b	4,0	14,3
y	5,1	13.2
bl	5,4	12.9
W	5,9	12.4

18.30

275' Sq K st

W	6.0	12.3
bh	5-4	12.9
Y	5-2	13.1
L	4.0	14.3
Y	3.0	15.3
bh	2.2	16.1
E	0.9	17.8

300' S=n L of K st (80)

E	1.6	16.7
bh	3.0	15.3
Y	3.6	14.7
L	4.3	14.0
Y	4.4	13.9
bh	4.6	13.7
W	5-0	13.3

n bb of L st

W	4.5	13.8
bh	4.2	14.1
Y	3.7	14.6
L	4.0	14.3
Y	3.3	15.0
bh	3.0	15.3
E	2.4	15.9

n 1/4 of K st

E	2.2	16.1
bh	2.7	15.6
Y	2.9	15.4
L	3.5	14.8
Y	3.9	14.4
bh	4.5	13.8
W	4.8	13.5

1830

	center of	L	st
W		4,4	13.9
bb		4,5	13.8
y		4,1	14.2
b		4,0	14.3
g		3,7	14.6
bl		3,6	14.7
E		3,5	15.1

	S 1/4 of	L	st
E		3,7	14.6
bb		3,9	14.4
y		4,3	14.0
b		4,5	13.8
g		4,3	14.0
bl		4,5	13.8
W		4,7	13.6

1830

	S bb of	L	st
W		5,2	13.1
bl		5,0	13.3
g		5,1	13.2
b		5,0	13.3
y		4,5	13.8
bb		4,4	13.9
E		4,4	13.9

	S sw of	L	st
E		4,5	13.8
bl		4,6	13.7
y		5,0	13.3
b		5,4	12.9
g		6,0	12.3
bl		6,8	11.5
W		6,9	11.4
Tp	220	14,06	6,44 1186

14.06

	25'	S of	L	st
W			3.9	10.2
bl			3.6	10.5
Y			3.1	11.0
L			2.4	11.7
Y			2.2	11.9
bl			2.4	11.7
E			1.4	12.7

	50'	S of	L	st
E			1.7	12.4
bl			2.8	11.3
Y			3.5	10.6
L			3.6	10.5
Y			4.6	9.5
bl +4 +6			4.5	9.6
			+0	
			4.0	10.1
				10.1
W			4.2	9.9

14.06

15th

75

	75'	S of	L	st
W			4.0	10.1
bl			4.0	10.1
+6			4.0	10.1
+8			5.0	9.1
Y			5.0	9.1
L			4.4	9.7
Y			3.8	10.3
bl			3.0	11.1
E			2.5	11.6

	100'	S of	L	st
E			3.4	10.7
bl			3.6	10.5
Y			4.6	9.5
+6			4.8	9.3
L			3.7	10.4
Y			4.4	9.7
bl			4.4	9.7
W			4.0	10.1

	125'	Sq	L	St
W			4.1	10.0
M			3.1	11.0
T			3.2	10.9
	77'		3.1	11.0
L			3.0	9.1
Y			3.0	9.1
M			4.2	9.9
E			3.9	10.2

	150'	Sq	L	St
E			4.0	10.1
M			4.6	9.5
Y			3.7	8.4
L			6.2	7.9
Y			6.3	7.8
M			6.0	7.1
	76'		4.6	9.5
W			4.4	9.7

	175'	Sq	L	St
W			5.0	9.1
M			4.4	9.7
T			5.2	8.9
	48'		6.6	7.5
L			6.6	7.5
Y			6.4	7.7
TOT	3.88	12.07	5.87	8.19
M			3.5	8.6
E			2.8	11.3

	200'	Sq	L	St
E			3.4	8.7
M			4.3	7.8
Y			5.0	7.1
L			5.0	7.1
	79'		5.0	7.1
Y			4.0	8.1
			3.8	8.3
M			3.7	8.4
	40'		4.0	10.1
W			3.0	9.1

12.07

	225'	S of	L	st
W			3,2	8.9
bh			3,5	8.6
y			3,7	8.4
b			3,8	8.3
+5 +8			4,0	8.1
			5,2	6.9
y			5,2	6.9
bh			5,0	7.1
E			3,8	8.3

	250'	S of	L	st
E			4,2	7.9
bh			5,0	7.1
y			5,0	7.1
			5,0	7.1
b			4,0	8.1
			3,8	8.3
y			3,9	8.2
			3,8	8.3
bh			3,0	9.1
W			3,2	8.9

12.07

15th st

77

	275'	S of	L	st
W			3,3	8.8
bh			3,3	8.8
y			3,5	8.6
b			4,0	8.1
+2			4,8	7.3
y			4,8	7.3
bh			4,6	7.5
E			3,7	8.4

	300'	S = N	L of	M	st	(Grade)
E				3,4	8.7	
bh				3,6	8.5	
+1'				4,2	7.9	
y				4,3	7.8	
b				4,6	7.5	
y				4,0	8.1	
+12				4,4	7.7	
bh				3,6	8.5	
W				3,3	8.8	

#400

7.27 NE 11 14 + L
16.18 NE 11 15 + L

272.96 NW 11 Gatto & Ingals
275.87 SE 11 Lewis "
13.94 K + M

5875 NW 11 Calif. Inc. Rec

8.46 NE 15-4 M

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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	3.93	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	37.06	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		¾ DEGREE.		½ DEGREE.		¼ DEGREE.		