Return to City Engineers Office
City Hall, San Diego, Cal.

400
LEVEL

F.B. 429

Cocker Quality

Published by H. S. CROCKER COMPANY, Stationers, Drawing Materials, and Mathematical Instruments, San Francisco.

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

429

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

MICROFILMED
DEC 10 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

Crocker Quality

LEVEL BOOK

No. 400

COMMUNI CONSENSU PRIMO TRADE MARK

FROM
Loring's Book Store

MANUFACTURED BY

H. S. Crocker Co.

SAN FRANCISCO
and
SACRAMENTO

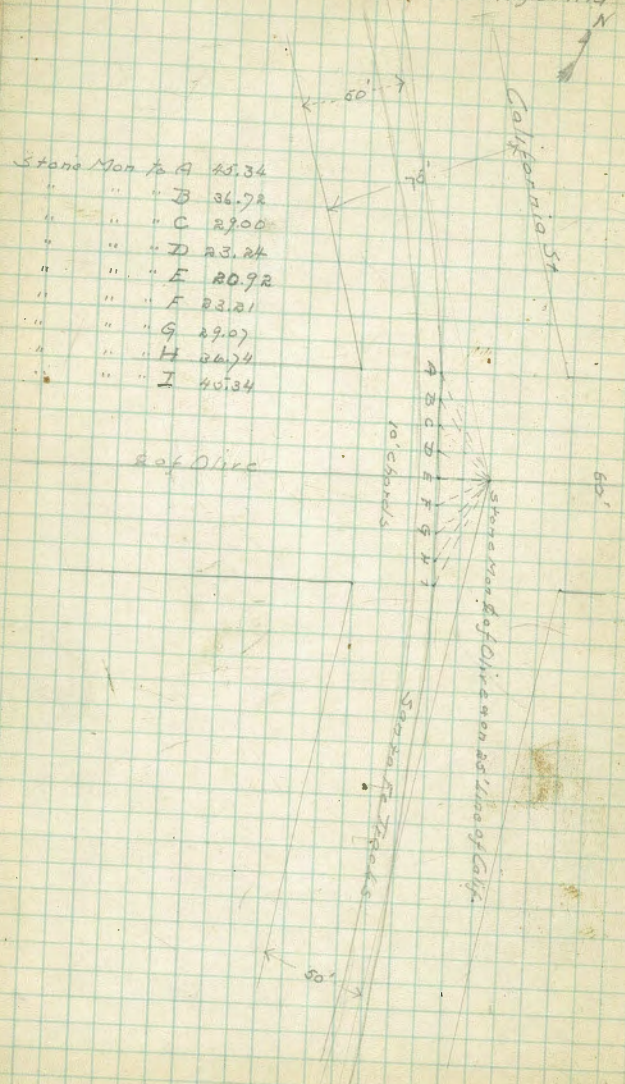
Old Town Jail ruins opp. Hd. sp. pole - grd. 40.52

Brick Church Foundation opp. Hd. spk. pole ground. 32.88

Hd. spk. pole. grd. N. Cor. Fence Old Mission Olive Works. 25.39

Hd. spk. grd. City Hydrant support 19.28 Cor. Whitman St

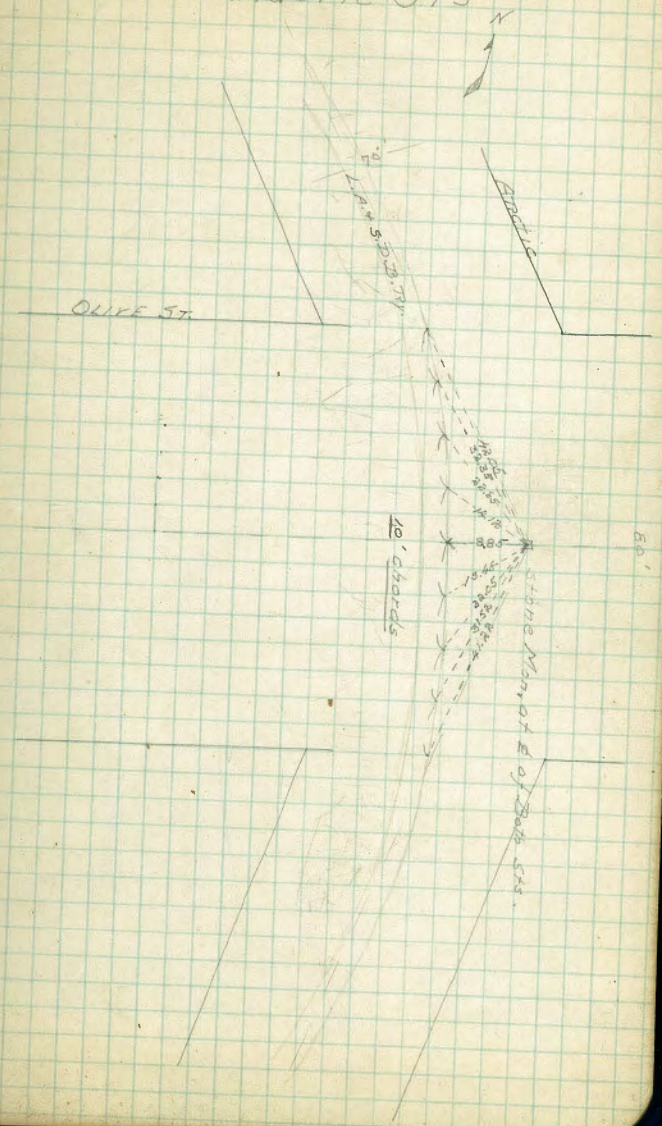
Location of Tracks
at Olive and California



Stone Mon to A 45.34
" " " B 36.72
" " " C 29.00
" " " D 23.24
" " " E 20.92
" " " F 23.21
" " " G 29.07
" " " H 36.74
" " " I 46.34

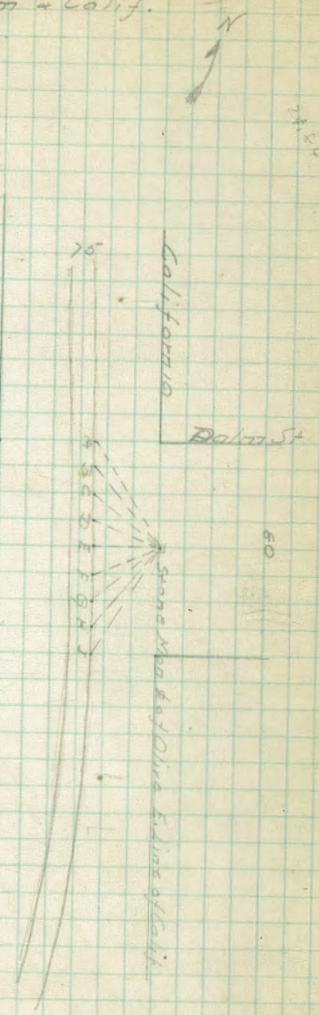
E of Olive

Location of tracks at intersection of
OLIVE and ARCTIC STS



Location of Sta. Fe Tracks
Palm & Calif.

Stone Mon. to		A.	45.15
"	"	" B	36.70
"	"	" C	29.30
"	"	" D	23.80
"	"	" E	21.84
		F	24.30
		G	30.07
		H	37.69
		I	46.34



Levels on Old Town Boulevard Line A.

B.M. Hd.Sp. O.T. Jail	3.55	44.07		40.52
Sta 0+00				
E			1.1	43.0
C			0.9	43.2
W			1.5	42.6
1+00			~~5.0~~	
W			5.0	39.1
C			4.4	39.7
E			5.2	38.9
2+00				
E			8.7	35.4
C			8.4	35.7
W			9.0	35.1

3+00		44.07		
W			12.5	31.6
C			12.1	32.0
E			11.7	32.4
1+50				
E			12.4	31.7
C			13.1	31.0
W			13.7	30.4
T.P.	5.84	37.93	11.98	32.09
2+00				
W			7.6	30.3
C			7.1	30.8
E			6.2	31.7

4+50		37.93				4+00		37.93		
E			5.3	32.6		W			4.6	33.3
C			5.5	32.4		C			3.9	34.0
W			5.5	32.4		E			3.0	34.9
5+00						4+50				
W			5.1	32.8		E			2.0	35.9
C			5.7	32.2		C			4.0	33.9
E			4.5	33.4		W			4.9	33.0
5+50						7+00				
E			3.9	34.0		W			3.8	34.1
C			3.8	34.1		C			2.5	35.4
W			5.1	32.8		E			1.2	36.7
						T.P.	10.73	46.15	2.51	35.42

7+50		46.15			
E			8.6	37.5	
C			10.0	36.1	
W			11.7	34.4	
8+00					
W			11.5	34.6	
C			10.3	35.8	
E			8.9	37.2	
8+50					
E			8.5	37.6	
C			9.9	36.2	
W			10.9	35.2	
9+00					
W			9.1		
C			8.1	37.0	
E			6.1	38.0	
				40.0	

9+50		46.15			
E			3.0	43.1	
C			5.1	41.0	
W			7.0	39.1	
10+00					
W			5.6	40.5	
C			3.4	42.7	
E			0.0	46.1	
T.P.	12.58	57.36	1.37	44.78	
10+50					
E			6.9	50.5	
C			9.8	47.6	
W			12.9	43.5	
11+00					
W			10.0	47.4	
C			7.0	50.4	
E			3.9	53.5	

11+50		57.36			
E			−1.0	58.4	
c			3.1	54.3	
W			6.0	51.4	
T.P.	12.37	68.62	1.11	56.25	
12+00					
W			15.2	53.4	
c			10.6	58.0	
E			6.6	62.0	
12+50					
E			2.3	66.3	
c			6.8	61.8	
W			10.8	57.8	
13+00					
W			5.1	63.5	
c			2.0	66.6	
E			0.0	68.6	

13+50		68.62			
T.P.	8.59	76.14	1.07	67.55	
E			5.0	71.1	
c			8.1	68.0	
W			10.6	65.5	
13+73.2					
S			10.0	66.1	
c			7.88	64.25	pipe center street.
N			5.7	70.4	
14+00					
N			8.7	67.4	
c			10.6	65.5	
S			12.9	63.2	
14+50					
S			13.7	62.4	
c			12.0	64.1	
N			10.4	65.7	

15+00		76.14			
N			10.5	65.6	
C			12.1	64.0	
S			13.5	62.6	
15+50					
S			14.4	61.7	
C			13.2	62.9	
N			12.0	64.1	
T.P.	0.13	63.91	12.36	63.78	
16+00					
N			1.8	62.1	
C			2.1	61.8	
S			2.7	61.2	
16+50					
S			5.2	58.7	
C			4.6	59.3	
N			4.3	59.6	

17+00		63.91			
N			8.9	55.0	
C			8.4	55.5	
S			8.1	55.8	
17+50					
S			13.5	50.4	
C			13.5	50.4	
N			13.3	50.6	
BM Nail in pole					
T.P.	1.71	53.03	12.29	51.62	
18+00					
N			9.3	43.7	
C			9.2	43.8	
S			8.8	44.2	
18+50					
S			13.8	39.2	
C			15.0	38.0	
N			15.0	38.0	

		53.03		
T.P.	1.50	41.73	12.80	40.23
19+00				
N			5.3	36.4
C			5.0	36.7
S			5.8	35.9
19+50				
S			7.2	34.5
C			7.7	34.0
N			7.2	34.5
20+00				
N			9.6	32.1
C			9.6	32.1
S			9.2	32.5

20+50		41.73		
S			11.0	30.7
C			11.2	30.5
N			10.9	30.8
T.P.	1.03	30.04	12.72	29.01
21+0				
N			2.4	27.6
C			1.5	28.5
S			0.5	29.5
21+50				
S			1.9	28.1
C			1.3	28.7
N			2.9	27.1
22+00				
N			4.7	25.3
C			5.3	24.7
S			5.7	24.3

23+00		30.04			
S			8.5	21.5	
C			8.9	21.1	
N			9.6	20.4	
24+00					
N			11.9	18.1	
C			11.6	18.4	
S			11.7	18.3	
T.P.	0.17	18.79	11.42	18.62	
25+00					
S			4.4	14.0	
C			4.8	14.0	
N			5.0	13.8	
△=25+?					
E			5.3	13.5	
C			5.5	13.3	
W			6.2	12.6	

26+00		18.79			
W			6.9	11.9	
C			6.7	12.1	
E			6.4	12.4	
27+00					
E			7.6	10.2	
C			7.7	11.1	
W			8.2	10.6	
28+00					
W			10.2	8.6	
C			10.2	8.6	
E			9.7	9.1	
T.P.	11.23	20.43	9.59	9.20	

29+00		20.43			
E			12.9	7.5	
C			13.0	7.4	
W			13.3	7.1	
30+00					
W			13.0	7.4	
C			12.8	7.6	
E			12.7	7.7	
31+00					
E			12.0	8.4	
C			12.0	8.4	
W			12.7	7.7	
31+50					
W			8.5	11.9	
C			6.8	13.6	
E			4.0	16.4	

32+00		20.43			
E			2.3	18.1	
C			3.8	16.6	
W			5.4	15.0	
32+48.5					
W			2.4	18.0	
C			1.0	19.4	
E			−2.0	22.0	
B.M.	Cor Whitman St.		1.14	19.28 19.29	City Hydrant Support

Levels on Old Town

Old Town Jail				
B.M	12.47	HI 52.99		40.52
T.P.	12.36	HI 63.33	2.02	50.97
Sta 00+00				
W			7.5	55.8
C			7.2	56.1
E			6.4	56.9
00+50				
E			5.5	57.8
C			6.6	56.7
W			7.4	55.9
1+00				
W.			7.2	56.1
C			6.2	57.1
E			4.8	58.5
1+50				
E			3.0	60.3
C			3.1	60.2
W			5.2	58.1

Boulevard Line "B"

2+00		HI 63.33		
W.			4.0	59.3
C			3.0	60.3
E			1.7	61.6
2+50				
E			2.5	60.8
C			3.8	59.5
W			4.6	58.7
3+00				
W.			4.4	58.9
C			2.8	60.5
E			1.6	61.7
T.P	11.07	74.20	0.20	63.13
3+50				
E			12.2	62.0
C			12.8	61.4
W			14.3	59.9

4+00		H.I. 74.20			
W.			14.4	59.8	
C			12.3	61.9	
E			9.8	64.4	
4+50					
E			10.5	63.7	
C			12.7	61.5	
W			15.1	59.1	
5+00					
W.			16.4	57.8	
C			13.6	60.6	
E			10.0	64.2	
T.P.	7.17	69.96	11.41	62.79	
5+50					
E			6.4	63.6	
C			8.8	61.2	
W			11.7	58.3	

6+00		HI 69.96 70.0			
W			12.0	58.0	
C			7.8	62.2	
E			3.6	66.4	
6+50					
E			7.6	62.4	
C			10.8	59.2	
W			14.8	55.2	
7+00					
W.			15.9	54.1	
C			11.8	58.2	
E			6.4	63.6	
T.P.	0.25	62.71	7.50	62.46	
7+50					
E			6.9	61.8	
C			4.0	58.7	
W			8.5	54.2	

8+00		HI 63.71		
W.			11.5	51.2
C			6.7	56.0
E			00	62.7
8+50				
E			3.1	59.6
C			7.0	55.7
W.			11.0	51.7
9+00				
W.			4.4	58.3
C			1.0	61.7
T.P.	5.70	66.55	1.86	60.85
9+00				
E			2.3	64.2
9+65 - △				
E			00	66.5
C			3.0	63.5
W.			5.4	61.1

10+00		HI 66.55		
W.			10.0	56.5
C			7.7	58.8
E			4.2	62.3
10+50				
E			6.1	60.4
C			9.6	56.9
W.			12.6	53.9
11+00				
W.			10.0	56.5
C			6.9	59.6
E			2.0	64.5
11+50				
E			1.8	64.7
C			4.5	62.0
W.			7.0	59.5

12+00		H I 66.55		
W.			7.1	59.5
C			4.8	61.7
E			3.1	63.4
12+50				
E			-1.0	67.5
C			1.7	64.8
W			5.3	61.2
T.P.	5.48	71.05	0.98	65.57
13+00				
W			11.7	59.3
C			8.4	62.6
E			5.0	66.0
13+50				
E			4.3	66.7
C			8.9	62.1
W.			12.0	59.0

14+00		H 7 71.05		
W.			12.5	59.5
C			7.2	63.8
E			2.2	68.8
14+50				
E			5.2	65.8
C			8.9	62.1
W			11.4	59.6
15+00				
W			14.5	56.5
C			10.0	61.0
E			5.8	65.2
15+50				
E			5.3	64.7
C			10.0	61.0
W			13.0	58.0
T.P.	8.00	71.75	7.30	63.75

16+00		HI 71.75			
W.			13.4	58.3	
C			9.5	62.2	
E			5.2	66.5	
16+50					
E			4.6	67.1	
C			8.4	63.3	
W			11.4	60.3	
17+00					
W			12.9	58.8	
C			8.9	62.8	
E			5.5	66.2	
17+50					
E			2.6	69.1	
C			5.1	66.6	
W.			8.5	63.2	
18+00					
E			1.1	70.6	
C			4.1	67.6	

W		HI 71.75	6.6	65.1	
18+46 = 13+73.2 Bline					
W.			5.8	65.9	
C			3.51	{7.P.68.25 68.24	chx
E			1.1	70.6	
	0.79	52.41		51.62	B.M
St. 22+50					
E			6.4	46.0	
C			7.0	45.4	
W			6.8	45.6	
23+00					
W.			11.7	40.7	
C			10.9	41.5	
E			10.7	41.7	
23+50					
E			11.4	41.0	
C			12.0	40.4	
W			12.7	39.7	

24+00		H.I. 52.41			
W.			13.3	39.1	
C			12.1	40.3	
E			9.8	42.6	
24+50					
E			6.5	45.9	
C			7.9	44.5	
W			9.1	43.3	
25+00					
W			8.5	43.9	
C			7.2	45.2	
E			5.4	47.0	
25+00					
E			10.7	42.7	
C			13.4	39.0	
W			13.5	38.9	
T.P.	2.10	45.01	9.50	42.91	

25+50		H.I. 45.01			
E			8.0	42.0	
C			5.8	39.2	
W.			9.2	35.8	
26+00					
W.			9.1	35.9	
C			6.8	38.2	
E			5.3	39.7	
27+00					
E			7.0	38.0	
C			8.9	36.1	
W			10.8	34.2	
28+00					
W.			15.4	29.6	
C			13.3	31.7	
E			10.3	34.7	
T.P.	0.32	32.53	12.80	32.21	

28+50		H.I. 32.53			
E			2.0	30.4	
C			3.2	29.3	
W			4.8	27.7	
29+00					
W			15.3	17.2	
C			12.7	19.8	
E			9.5	23.0	
29+50					
E			9.3	23.2	
C			12.3	20.2	
W			17.0	15.5	
30+00					
W			10.7	21.8	
C			6.9	25.6	
E			4.8	27.7	

30+20		H.I. 32.53			
E			2.3	30.2	
C			4.2	28.3	
W			7.8	24.7	
T.P.	3.97	27.84	8.66	23.87	
31+00					
W.			3.9	23.9	
C			3.1	24.7	
E			1.7	26.1	
32+00					
E			4.7	23.1	
C			5.9	21.9	
W.			6.5	21.3	
32+86					
W			9.9	17.9	
C			8.6	19.2	
E			6.0	21.8	
				19.28 = B.M.	
			8.55	19.29	

56.2
9
55 3

11-13-08

Xsection LAUREL ST. {Whittelsey, Taylor, Churchman}

India to California

W.L of India

N	56.16	0.90	√5.30
C		1.20	
1/4		1.40	
℄		1.60	√4.6
1/4		2.30	
C		2.60	
S		2.40	√3.8
	+50 West		
S		4.70	√1.5
C		4.30	
1/4		4.20	
℄		3.70	√1.5
1/4		3.70	
C		3.50	
+11		3.20	
N		0.60	√5.6

		1+00		
N		56.16	5.50	√0.7
C			6.70	
1/4			7.10	
℄			7.00	49.2
1/4			6.80	
C		51.28	2.30	
S			2.60	48.7
		1+50		
S			7.20	44.1
C			7.30	
1/4		56.16	11.60	
℄			11.60	44.6
1/4			11.40	
C			11.50	
N			11.90	44.3
T.P.			12.55	43.61
	7.67	51.28		

— 8+00 — = E.L. Arctic

N	51.28	12.00	39.3
C		11.50	
1/4		11.20	
℄		11.20	40.1
1/4		11.00	
C		11.20	
S		11.20	40.1

E.C. of Arctic

S		11.70	39.6
C		12.00	
1/4		11.90	
℄		11.50	39.8
1/4		11.80	
C		12.50	
N		12.50	38.8
T.P.		12.70	38.03
	0.18	38.71	

E 1/4 of Arctic

N	38.71	4.60	34.1
C		3.90	
1/4		3.00	
℄		2.70	36.0
1/4		2.70	
C		2.80	
S		2.00	36.7

8' E of LaJolla Tracks = 6' E of ℄

S		6.60	32.1
C		6.50	
1/4		6.30	
℄		6.20	32.5
1/4		6.00	
C		5.60	
S		5.50	33.2

W. Trail of La Jolla Tracks = 1.45' W. of ℄ at N.P.L.
0.63 " " " " S.P.L.

N	38.71	4.93	33.8
C		5.02	
¼		5.25	
℄		5.41	33.3
¼		5.57	
C		5.75	
S		5.95	32.7

2' W. of Tracks

S		6.60	32.1
C		6.50	
¼		6.40	
℄		6.10	32.6
¼		6.00	
C		5.80	
N		5.60	33.1

38.71

W ¼ of Arctic

N		5.70	33.0
C		5.70	
¼		5.90	
℄		5.80	32.9
¼		5.90	
C		6.20	
S		6.10	32.6

W Curb of Arctic

S		6.40	32.3
C		6.30	
¼		6.20	
℄		6.20	32.5
¼		6.20	
C		6.20	
N		6.30	32.4

W. 2. of Arctic

N	38.71	7.10	31.6
C		6.70	
¼		6.90	
℄		6.60	32.1
¼		6.60	
C		6.80	
S		7.00	31.7

50' W. of Arctic

S		13.70	27.0
C		13.50	
¼		13.10	
℄		12.60	26.1
¼		12.40	
C		12.30	
N		12.00	26.7
T.P.		13.15	25.56
	0.00	25.56	

100' W. of Arctic

N	25.56	5.50	20.1
C		5.60	
¼		6.20	
℄		6.40	19.2
¼		9.00	
C		8.00	
S		9.20	16.4

150' W. of Arctic

S		11.60	14.0
C		11.80	
¼		12.10	
℄		12.30	13.3
¼		12.60	
C		14.80	
N		15.60	10.0

200' W. of Arctic = E.L. Calif.

N		26.56	16.20	9.4
C			15.60	
1/4			14.60	
¢			13.10	12.5
1/4			12.40	
C			11.90	
S			11.60	14.0

W. Rail Santa Fe track = 27.23' W. of E.L. of Calif.

S			10.90	14.7
C			10.90	
1/4			10.84	
¢			10.80	14.8
1/4			10.72	
C			10.67	
N			10.61	15.0
T.P.			13.01	12.55
	6.53.	19.08		

X sec. of MAPLE ST. Calif. to Indio

W. Rail of Santa Fe Tracks = 27.20' W. of E.L. of Calif

S	19.08	1.55	17.2	
C		1.73		
1/4		1.61		
¢		1.46	17.6	
1/4		1.31		
C		1.20		
N		1.06	18.0	

E.L. of California

N		11.30	7.8	
C		12.20		
1/4		11.00		
¢		10.60	8.5	
1/4		11.00		
C		11.10		
S		11.30	8.8	

50' E of Calif

S		19.08	9.30	9.8
			9.50	
1/4			9.90	
℄			10.30	8.8
1/4			10.60	
C			10.90	
N			11.10	8.0

100' E of Calif

N			9.00	10.1
C			8.60	
1/4			7.90	
℄			7.30	11.8
1/4			5.80	
C			4.90	
S			5.20	13.9
T.P.			0.49	18.59
	12.50	31.09		

150' E of Calif

S		31.09	12.60	18.5
C			14.90	
1/4			14.10	
℄			14.70	16.4
1/4			14.20	
C			14.90	
N			13.50	17.6

200' E of Calif = W.L. Arctic

N			4.30	26.8
C			4.00	
1/4			4.00	
℄			4.30	26.8
1/4			3.90	
C			3.20	
S			3.40	27.7

W. C. of Arctic

S		31.09	2.90	28.2
C			3.10	
1/4			3.20	
℄			3.10	28.0
1/4			2.70	
C			2.30	
N			2.90	28.2
T.R			0.01	31.08

W. 1/4 of Arctic

N	18.63	43.71	7.30	36.4
C			7.70	
1/4			8.10	
℄			8.30	35.4
1/4			8.80	
C			9.60	
S			9.60	34.1

2' W. of W. Rail of Lo Jolla Tracks

S		43.71	6.00	37.7
C			5.80	
1/4			5.60	
℄			5.40	38.3
1/4			5.20	
C			4.80	
N			4.50	39.2

W. Rail of Tracks = 1.92' W. of ℄ of Arctic on N
1.85 " " " " " " S

N			3.60	40.1
C			3.60	
1/4			4.17	
℄			4.42	39.3
1/4			4.80	
C			5.00	
S			5.17	38.5

3' E of Tracks

S	43.71	5.90	37.8
C		5.70	
¼		5.50	
℄		5.10	38.6
¼		5.00	
C		4.80	
N		4.50	39.2

E. ¼ of Arctic

N		6.30	37.4
C		6.70	
¼		6.80	
℄		6.90	36.8
¼		7.00	
C		7.90	
S		8.50	35.2

3' E of E ¼ of Arctic

S	43.71	9.50	34.2
C		10.40	
¼		9.80	
℄		9.30	34.4
¼		9.10	
C		8.80	
N		8.60	35.1

E. Curb of Arctic

N		8.50	35.2
C		8.70	
¼		8.90	
℄		9.20	34.5
¼		8.70	
C		9.30	
S		9.40	34.3

E.L. of Arctic

S		43.71	5.00	38.7
C			4.60	
1/4			4.70	
℄			4.80	38.9
1/4			4.10	
C			3.60	
N			4.30	39.4
T.P.			0.54	43.17

50' E of Arctic

N	12.42	55.57	5.00	50.6
C			6.00	
1/4			6.50	
℄			7.00	48.6
1/4			7.50	
C			7.70	
S			8.00	47.6
T.P.			0.22	55.35

100' E of Arctic [55.35]

S	13.09	68.44	12.10	56.3
C			11.60	
1/4			11.00	
℄			10.40	58.0
1/4			10.00	
C			9.40	
N			9.80	58.6
T.P.			0.24	68.20

150' E of Arctic

N	12.50	80.70	11.30	69.4
C			11.10	
1/4			7.70	
℄			9.90	70.8
1/4			11.40	
C			11.90	
S			13.90	66.8

For Xsection of ~~NUTMEG St India to Calif~~

see book 317 - pgs 33-45

Xsection of **Olive St** " " "

W.L. of India [90.07]

N	10.55	100.62	1.50	99.1
C			1.60	
¼			1.80	
¢			1.60	99.0
¼			1.80	
C			1.50	
S			1.50	99.1
		15' W. of India		
S			7.20	93.4
C			7.10	
¼			6.20	
¢			6.90	93.7
¼			7.80	
C			9.00	
N			10.30	90.4

175' E of Arctic

S	80.70	9.50	71.2	
+8		6.90		
C		7.30		
¼		6.60		
¢		5.70	75.0	
¼		5.70		
+10		5.10		
C		6.50		
N		7.80	73.5	

200' E of Arctic = W.L. India

N		3.50	77.2	
C		3.90		
¼		4.00		
¢		4.00	76.7	
¼		4.50		
C		5.00		
S		4.80	75.9	
		3.45	77.85	
13.23	90.48	0.41	90.07	90.07 3.8

50' W of India

N		100.63	15.60	85.0
C			15.90	
¼			15.60	
¢			15.10	85.5
¼			14.50	
C			13.60	
S			13.60	87.0
T.P.			12.61	88.02

100' W of India

S	0.43	88.45	10.10	78.4
C			9.60	
¼			9.00	
¢			9.60	78.9
¼			9.90	
C			10.30	
N			11.40	77.1
TP			12.57	75.58

150' W of India (75.58)

N	0.15	75.73	7.90	67.8
C			6.00	
¼			5.40	
¢			5.00	70.7
¼			5.10	
C			5.30	
S			5.30	70.4
T.P.			13.01	62.72

200' W of India = E.L. of Arctic.

S	0.45	63.17	1.40	61.8
C			1.70	
¼			1.50	
¢			1.40	61.8
¼			2.00	
C			3.00	
N			2.70	60.5

E. Curb of Arctic

N	6.3.17	4.40	√8.8
C		5.50	
1/4		4.90	
℄		4.10	√9.1
1/4		3.70	
C		3.80	
S		3.70	√9.√

E 1/4 of Arctic

S		7.80	√√.4
C		7.80	
1/4		7.40	
℄		7.50	√√.7
1/4		7.40	
C		7.30	
N		6.90	√6.3

8' E of La Jolla tracks see sketch front of Book

N	6.3.17	10.40	√2.8
C		10.60	
1/4		10.70	
℄		10.90	√2.3
1/4		11.20	
C		11.50	
S		11.80	√1.4

N. Rail of La Jolla tracks – (Superelevation 0.30')

S		11.29	√1.9
+10		11.13	
+20		10.98	
+30		10.81	
℄		10.61	√2.6
+10		10.41	
+20		10.23	
+30		10.06	
N = +40		9.87	√3.3

2' W of Tracks

N	63.17	11.00	✓2.2
C		11.10	
1/4		11.30	
℄		11.70	✓1.✓
1/4		12.00	
C		12.10	
S		12.40	✓0.8

W 1/4 of Arctic

S		11.30	✓1.9
C		10.90	
1/4		10.40	
℄		10.30	✓2.9
1/4		10.10	
C		9.80	
N		9.80	✓3.4

W. Curb of Arctic

N		10.30	✓2.9
C		10.20	
1/4		10.40	
℄		10.60	✓2.6
1/4		10.90	
C		11.20	
S		11.40	✓1.8

W. L. of Arctic

S		13.00	✓0.2
C		12.40	
1/4		12.30	
℄		12.30	✓0.9
1/4		12.00	
C		11.50	
N		11.50	✓1.7
TP		13.05	50.12
	0.03	50.15	

50' W. of Arctic

N	50.15	3.50	46.7
C		3.70	
¼		4.00	
¢		4.10	46.1
¼		4.90	
C		5.60	
S		6.80	43.4

100' W. of Arctic

S		10.70	39.5
C		10.00	
¼		9.00	
¢		8.70	41.5
¼		8.10	
C		8.10	
N		7.90	42.3

150' W. of Arctic

N	50.15		11.30	38.9
C			11.70	
¼			12.60	
¢			12.50	37.7
T.P.			12.77	37.38
¼	0.11	37.49	1.50	
C			1.90	
S			2.40	35.1

200' W. of Arctic = E.L. Calif.

S		6.50	31.0
C		5.60	
¼		5.20	
¢		3.80	33.7
¼		3.20	
C		2.80	
N		2.70	34.8

E. Rail of Santa Fe Tracks see sketch Front of Book

N		39.49	12.26	25.2
+10			12.36	
+20			12.49	
+30			12.59	
℄			12.69	24.8
+10			12.78	
+20			12.87	
+30			12.96	
+40 ≠ N.			13.05	24.40
T.P.			4.44	33.05
	6.90	39.95		

Subdivision 0.13'

Platted URB.

X section of Palm St. Calif. to India.

E. Rail of Santa Fe Tracks See sketch front of Book

S	39.95	12.92	27.0
+10		12.84	
+20		12.73	
+30		12.62	
℄		12.55	27.4
+10		12.45	
+20		12.36	
+30		12.27	
+40 ≠ N.		12.19	27.8

E. L. of California

N	0.00	40.0
C	0.20	
1/4	0.90	
℄	1.30	38.7
1/4	1.30	
C	1.70	
S	2.00	38.0

	7' E of Calif.			
S	39.95	4.60	35.4	
C		4.20		
1/4		4.00		
℄		3.90	36.1	
1/4		3.80		
C		3.60		
N		3.60	36.4	
	15' E of Calif.			
N		0.20	39.8	
C		0.30		
1/4		0.60		
℄		1.30	38.7	
1/4		1.20		
C		1.20		
S		1.30	38.7	
TP		0.16	39.79	

	50' E of Calif.			(39.79)
S	12.84	52.33	10.30	42.0
C			10.20	
1/4			10.00	
℄			9.60	42.7
1/4			9.60	
C			9.30	
N			9.20	43.1
	100' E of Calif.			
N			3.10	49.2
C			3.20	
1/4			3.70	
℄			4.10	48.2
1/4			4.20	
C			4.60	
S			4.70	47.6
TP			0.62	51.71
	12.73	64.44		

150' E of Calif.

S	6.44	10.40	✓4.0
C		9.90	
1/4		9.90	
℄		9.90	✓4.✓
1/4		9.50	
C		9.30	
N		9.30	✓✓.1

200' E of Calif = W.L. of Arctic

N		4.80	✓9.6
C		4.70	
1/4		4.90	
℄		4.90	✓9.✓
1/4		5.00	
C		5.10	
S		4.80	✓9.6

6.44

W Curb of Arctic

S		4.70	✓9.7
C		4.50	
1/4		4.20	
℄		4.30	60.1
1/4		4.10	
C		3.90	
N		3.70	60.7

W 1/4 of Arctic

N		5.40	✓7.0
C		5.50	
1/4		5.50	
℄		5.50	✓8.9
1/4		5.60	
C		5.60	
S		6.00	✓8.4

2' W of La Jolla Tracks

S	6.44	7.30	✓7.1
C		7.40	
1/4		7.20	
℄		7.10	✓7.3
1/4		7.10	
C		7.10	
N		7.00	✓7.4

W Rail of La Jolla Tracks = 2.32' W of ℄ of Arctic

N		6.20	✓8.2
C		6.21	
1/4		6.23	
℄		6.25	✓8.2
1/4		6.30	
C		6.40	
S		6.59	✓7.8

6.44

2' E of La Jolla Tracks

S		7.80	✓7.1
C		7.20	
1/4		7.10	
℄		7.00	✓7.4
1/4		7.00	
C		7.00	
N		6.90	✓7.5
TP.		0.01	6.43

E 1/4 of Arctic

N	12.95	77.38	11.50	6✓.9
C			11.90	
1/4			11.70	
℄			12.60	6.4.8
1/4			12.70	
C			13.10	
S			14.40	63.0

E. Curb of Arctic

S	77.38	14.70	62.7
C		12.30	
1/4		10.60	
℄		10.30	67.1
1/4		10.60	
C		10.20	
N		10.10	67.3

E.L. of Arctic

N		9.30	68.1
C		9.40	
1/4		10.00	
℄		10.20	67.2
1/4		10.10	
C		12.40	
S		15.30	62.1

77.38

50' E of Arctic

S	11.80	65.6
C	12.40	
1/4	10.70	
℄	6.30	71.1
1/4	4.80	
C	4.30	
N	3.70	73.7

100' E of Arctic

N	+0.40	78.80
C	2.90	
1/4	5.50	
℄	7.60	69.8
1/4	7.10	
C	3.20	
S	2.40	75.0
TR	0.05	77.33

		150' E of Arctic (27.33)		
S	10.25	87.58	3.10	84.5
C			4.10	
1/4			7.20	
℄			11.60	76.0
1/4			11.20	
C			8.80	
N			5.60	82.0
		175' E of Arctic		
N			1.80	85.8
C			1.50	
1/4			6.00	
℄			5.20	82.4
1/4			6.00	
C			4.70	
T.P.			0.25	87.33
S	13.17	100.50	12.30	88.3

		200' E of Arctic = W.L. of India			
S		100.50	2.30	98.2	
C			2.50		
1/4			3.60		
℄			2.60	98.0	
1/4			3.00		
C			2.50		
N			2.30	98.2	101.54
TP			0.00	100.50	
B.M.	5.55	106.05	4.53	101.52	101.54

Xsection Quince St India to Calif.

~~S~~	W.L. of India				(101.54)
S	1.69	103.23	2.10	101.1	
C			2.40		
1/4			2.40		
℄			2.30	100.9	
1/4			2.10		
C			2.00		
N			1.90	101.3	
	15' W. of India				
N			9.00	94.2	
C			10.10		
1/4			10.20		
℄			9.90	93.3	
1/4			9.90		
C			9.30		
S			9.20	94.0	
TP.			12.94	90.29	

	50' W. of India			(90.29)
S	0.11	90.40	4.30	86.1
C			4.70	
1/4			4.70	
℄			4.10	86.3
1/4			4.60	
C			5.30	
N			5.70	84.7
	100' W. of India			
N			13.90	76.5
C			14.20	
1/4			14.70	
℄			14.20	76.2
1/4			13.90	
C			13.80	
S			14.10	76.3
TP.			12.91	77.49
	0.53	78.02		

P

150' W. of India

S		7.02	8.70	69.3
C			8.70	
1/4			8.80	
℄			8.50	69.5
1/4			8.20	
C			8.30	
N			8.30	69.7

200' W of India = El. of Arctic

N			13.10	64.9
C			13.50	
1/4			13.80	
T.P.			12.87	65.15
℄	0.19	65.34	1.10	64.2
1/4			1.10	
C			1.20	
S			1.30	64.0

E Curb of Arctic

S	65.34	2.70	62.6
C		2.50	
1/4		2.20	
℄		2.30	63.0
1/4		2.30	
C		2.30	
N		2.00	63.3

E 1/4 of Arctic

N	3.30	62.0
C	3.60	
1/4	3.70	
℄	4.10	61.2
1/4	4.30	
C	4.30	
S	4.10	61.2

3' E of La Jolla Track

S	65.34	7.80	√7.5
C		7.70	
1/4		7.20	
℄		7.60	√7.7
1/4		7.80	
C		7.60	
N		7.70	√7.6

W. Rail of Track = 2.24 W of ℄ of Arctic

N		7.09	√8.2
C		7.09	
1/4		7.12	
℄		7.12	√8.2
1/4		7.14	
C		7.09	
S		7.05	√8.3

3' W. of Track

S	65.34	7.80	√7.5
C		7.80	
1/4		8.00	
℄		8.00	√7.3
1/4		7.90	
C		7.80	
N		7.90	√7.4

W 1/4 of Arctic

N		5.50	√9.8
C		5.50	
1/4		5.60	
℄		5.90	√9.4
1/4		6.20	
C		6.10	
S		6.10	√9.2

W. Curb of Arctic

S	65.34	6.90	√8.4
C		7.00	
1/4		6.90	
℄		6.70	√8.6
1/4		6.50	
C		6.00	
N		5.80	√9.√

W. L. of Arctic

N		6.90	√8.4
C		7.30	
1/4		7.10	
℄		7.30	√8.0
1/4		7.30	
C		7.30	
S		7.40	√7.9

50' W of Arctic

S		10.60	√4.7
C		10.80	
1/4		11.20	
℄		11.30	√4.0
1/4		10.90	
C		10.50	
N		10.60	√4.7
T.P.		13.18	53.16

100' W of Arctic

N	0.27	52.43	2.50	49.9
C			3.80	
1/4			3.30	
℄			3.50	48.9
1/4			3.00	
C			3.30	
S			3.30	49.1

150' W. of Arctic

S		58.40	6.70	43.7
C			8.80	
1/4			8.10	
Ø			9.10	43.3
1/4			9.30	
C			9.00	
N			9.00	43.4
			12.60	39.80

180 W. of Arctic

N	2.80	43.0.0	4.30	38.7
C			4.30	
1/4			4.20	
Ø			4.30	38.7
1/4			4.40	
C			4.40	
S			4.50	38.5

150' W. of Arctic

S			2.60	40.4
C			2.60	
1/4			2.10	
Ø			2.80	40.2
1/4			2.50	
C			2.70	
N			2.80	40.2

200' W. of Arctic

N			6.00	37.0
C			6.70	
1/4			6.90	
Ø			6.60	36.4
1/4			6.20	
C			6.00	
S			5.80	37.2

P

E. Rail of Santa Fe Tracks
20.64 N. of E.L. of Calif.

S	14300	12.45	30.5
C		12.40	
1/4		12.26	
¢		12.13	30.9
1/4		12.05	
C		11.95	
N		11.89	31.1

X section of Redwood St
Calif to India
E. Rail. Sta Fe Tracks = 21.30 W of E.L. of Calif

S	43.00	12.22	30.8
C		12.27	
1/4		12.35	
¢		12.40	30.6
1/4		12.46	
C		12.60	
N		12.60	30.4

E.L. of Calif

N		5.50	37.5
C		5.50	
1/4		5.40	
¢		6.20	36.8
1/4		5.90	
C		5.70	
S		5.70	37.3

Plotted from Note in Book 262

		25' E of Calif		
S		43.00	3.20	39.8
C			2.70	
1/4			3.00	
¢			3.10	39.9
1/4			3.30	
C			3.40	
N			3.80	39.2
~~T.P.~~		50' E of Calif		
N			1.30	41.7
C			1.40	
1/4			1.20	
¢			0.70	42.3
1/4			1.00	
C			0.30	
S			0.40	42.6
T.P.			0.05	42.95
	18.64	55.49		

		100' E of Calif.		
S		55.49	7.00	48.5
C			7.10	
1/4			7.40	
¢			7.40	48.1
1/4			7.90	
C			8.00	
N			7.80	47.7
		150' E of Calif.		
N			2.30	33.2
C			2.30	
1/4			2.60	
¢			2.40	31
1/4			2.20	
C			1.80	
S			1.60	39
T.P.			0.04	35.45
	18.64	68.39		

200' E of Calif = W.L. Arctic

S	68.29	10.60	✓7.7
C		10.50	
1/4		10.70	
℄		10.90	✓7.4
1/4		11.00	
C		11.00	
N		11.10	✓7.2

W.C. of Arctic

N		9.60	✓8.7
C		9.60	
1/4		9.20	
℄		9.30	✓9.0
1/4		9.40	
C		9.60	
S		9.20	✓9.1

W 1/4 of Arctic

S	68.29	8.90	✓9.4
C		8.90	
1/4		9.00	
℄		9.00	✓9.3
1/4		9.00	
C		8.50	
N		8.50	✓9.8

6' E of W 1/4 of Arctic

N		8.10	60.2
C		8.10	
1/4		8.30	
℄		9.00	✓9.3
1/4		8.50	
C		8.80	
S		8.60	✓9.7

2' W of Tracks (La Falla Line)

S	68.29	10.80	✓7.✓
C		10.80	
1/4		10.80	
℄		10.80	✓7.✓
1/4		10.80	
C.		10.80	
N		10.80	✓7.✓

W. Rail = 8.35' W of ℄

N		9.95	✓8.3
C		9.95	
1/4		9.95	
℄		9.96	✓8.3
1/4		9.97	
C		9.99	
S		9.99	✓8.3

2' E of Tracks

S	68.29	10.90	✓7.4
C		10.90	
1/4		10.40	
℄		10.60	✓7.7
1/4		10.80	
C		10.60	
N		10.70	✓7.6

E 1/4 of Arctic

N		5.20	63.1
C		5.30	
1/4		5.30	
℄		5.00	63.3
1/4		5.50	
C		5.80	
S		6.10	62.2

E. Curb of Arctic

S		68.29	4.50	63.8
C			4.40	
¼			4.00	
℄			3.70	64.6
¼			3.90	
C			4.20	
N			4.00	64.3

F.L. of Arctic

N			2.60	67.7
C			3.10	
¼			2.90	
℄			2.40	67.9
¼			2.70	
C			2.80	
S			2.50	67.8
T.P.			0.24	68.05
	12.79	80.84		

50' E of Arctic

S		80.84	10.30	70.5
C			10.30	
¼			10.60	
℄			10.80	70.0
¼			10.30	
C			10.20	
N			11.10	69.7

100' E of Arctic

N			5.80	75.0
C			5.80	
¼			5.50	
℄			5.30	75.5
¼			5.00	
C			4.90	
S			5.00	75.8
T.P.			0.17	80.67
	12.74	93.41		

150' E of Arctic

S		93.41	9.90	83. ✓
C			9.90	
1/4			10.40	
d			11.00	82.4
1/4			11.50	
C			11.20	
N			11.60	81.8

187' E of Arctic

N			0.30	88.1
C			4.70	
1/4			4.30	
d			3.00	90.4
1/4			3.40	
C			3.80	
S			2.20	91.2
T.P.			1.60	91.81
	4.99	96.80		

800' E of Arctic = W.L. of India

S		96.80	+0.40	97.20
C			+0.10	96.90
1/2			0.30	86.54
d			0.30	96. ✓
1/4			0.90	
C			0.90	
N			0.70	96.1
~~BVM.~~			10.24	86.56 86.54

B. M. Sphinpole N.E. Goldfinch + Wash 267.72

1.26 268.98 4.89 266.09

X section of Washington St

12/18/08 { Whittelsey, Taylor, Churchman

I bis to Jackdaw

W.L. of I bis. = 0+0

N	1.92	266.01	1.90	264.1
℄			3.60	262.4
S			7.70	258.3
		0+25		
S			8.90	256.1
℄			4.80	261.2
N			2.00	264.0
		0+50		
N			3.10	262.9
℄			5.20	260.8
S			8.90	257.1
		0+75		
S			8.40	257.6
℄			5.60	260.4
N			3.20	262.8

		1+00		
N		266.01	3.40	262.6
℄			5.50	260.5
S			7.40	258.6
		1+25		
S			6.40	259.6
℄			5.00	261.0
N			3.30	262.7
		1+50		
N			2.60	263.4
℄			4.20	261.8
S			5.80	260.2
		1+75		
S			5.20	260.8
℄			3.60	260.4
N			2.40	263.6

		2+00			
13	N	2 66.01	3.30		262.7
	℄		4.10		261.9
	S		5.00		261.0
		2+17.5 = E d of Jackdaw			
	S		5.80		260.8
	℄		4.70		261.9
	N		4.40		261.6

x-section Boston Ave E.L. 26th to W.L. 32nd
Boston Ave 80' wide

Dunkle
Shaw
Thomas.

B.M. brass plg Cor 26th & National 49.98

	+ R.	H.I	− R	Elev.
B.M.	1.18	51.16		49.98
T.P.	0.98	39.77	12.43	38.79
T.P.	7.48	37.81	9.44	30.33

E.L. 26th

N			7.9	29.9
Crb			8.6	29.2
1/4			8.7	29.1
M			9.0	28.8
1/4			9.2	28.6
Crb			9.4	28.4
S			9.8	28.0

0 + 25

S			9.7	28.1
Crb			9.4	28.4
1/4			9.2	28.6
M			8.9	28.9
1/4			8.7	29.1
Crb			8.4	29.4
N			8.1	29.7

37.81

0 + 50

N			7.8	30.0
Crb			8.6	29.2
1/4			8.5	29.3
M			8.6	29.2
1/4			8.6	29.2
Crb			8.2	29.6
S			8.4	29.4

0 + 75

S			7.6	30.2
Crb			7.5	30.3
1/4			7.4	30.4
M			7.8	30.0
1/4			8.3	29.5
Crb			7.9	29.9
N			7.6	30.2

37.81
1+00

N	6.9	30.9
Crb	7.3	30.5
"A	7.8	30.0
M	7.3	30.5
"A	6.8	31.0
Crb	6.8	31.0
S	7.0	30.8

1+25

S	6.8	31.0
Crb	6.5	31.3
"A	6.4	31.4
M	6.9	30.9
"A	7.0	30.80
Crb	6.7	31.1
N	6.8	31.0

37.81
1+50

N	6.4	31.4
Crb	6.5	31.3
"A	6.6	31.2
M	6.7	31.1
"A	6.5	31.3
Crb	6.3	31.5
S	6.5	31.3

1+75

S	6.1	31.7
Crb	6.2	31.6
"A	5.8	32.0
M	6.0	31.8
"A	5.9	31.9
Crb	5.9	31.9
N	5.8	32.0

37.81

2+0

N	5.1	32.7
crb	5.5	32.3
11q	5.7	32.1
M	5.8	32.0
11q	5.8	32.0
crb	6.0	31.8
S	6.0	31.8

2+25

S	5.9	31.9
crb	5.9	31.9
11q	5.8	32.0
M	5.7	32.1
11q	5.4	32.4
crb	4.9	32.9
N	4.4	33.4

37.81

2+50

N	4.7	33.1
crb	4.9	32.9
11q	4.9	32.9
M	5.3	32.5
11q	5.8	32.0
crb	5.7	32.1
S	5.8	32.0

2+75

S	5.7	32.1
crb	5.7	32.1
11q	5.7	32.1
M	5.4	32.4
11q	5.1	32.7
crb	5.0	32.8
N	4.7	33.1

37.81

3+0

N	4.6	33.2
crb	5.0	32.8
1/4	5.3	32.5
M	5.5	32.3
1/4	5.7	32.1
crb	5.5	32.3
S.	5.7	32.1

3+25

S	5.9	31.9
crb	5.6	32.2
1/4	5.5	32.3
M	5.3	32.5
1/4	5.1	32.7
crb	4.8	33.0
N	4.5	33.3

37.81

3+50

N	4.1	33.7
crb	4.2	33.6
1/4	4.6	33.2
M	4.9	32.9
1/4	5.2	32.6
crb	5.4	32.6
S	5.5	32.3

3+75

S	5.1	32.7
crb	4.6	33.2
1/4	4.4	33.4
M	4.0	33.8
1/4	4.0	33.8
crb	3.8	34.0
N	3.8	34.0

37.81

4+0

N	3.3	34.5
crb	3.7	34.1
1/4	3.7	34.1
M	4.1	33.7
1/4	4.4	33.4
crb	4.1	33.7
S	4.9	32.9

4+25

S	5.0	32.8
crb	4.6	33.2
1/4	4.6	33.2
M	4.2	33.6
1/4	3.7	34.1
crb	3.4	34.4
N	3.0	34.8

37.81

4+50

N	2.8	35.0
crb	3.3	34.5
1/4	3.7	34.1
M	4.1	33.7
1/4	4.6	33.2
crb	4.4	33.4
S	4.6	33.2

4+75

S	4.4	33.4
crb	4.1	33.7
1/4	4.2	33.6
M	3.8	34.0
1/4	3.6	34.2
crb	3.2	34.6
N	2.8	35.0

	37.81		
	5+0		
N		2.2	35.6
crb		2.3	35.5
W		2.8	35.0
M		2.9	34.9
W		2.8	35.0
crb		3.2	34.6
S		3.3	34.5
	5+25		
S		2.8	35.0
crb		2.7	35.1
W		2.0	35.8
M		1.1	36.7
W		0.7	37.1
crb		0.7	37.1
N		1.1	36.7

	37.81		
	5+50		
N		0.3	37.5
crb		1.0	36.8
W		1.3	36.5
M		1.8	36.0
W		1.9	35.9
crb		2.4	35.4
S		2.8	35.0
	5+75		
S		3.0	34.8
crb		2.7	35.1
W		2.3	35.5
M		1.9	35.9
W		1.3	36.5
crb		1.3	36.5
N		0.7	37.1

37.81

5+99 = W.L. 27th 60' wide

N			0.1	37.7
crb			0.7	37.1
W			1.2	36.6
M			1.7	36.1
W			2.3	35.5
crb			2.5	35.3
S			2.4	35.4
T.P.	5.45	41.21	2.05	35.76

W. curb 27th st.

S			5.6	35.6
crb			5.7	35.5
W			5.5	35.7
M			5.1	36.1
W			4.5	36.7
crb			3.8	37.4
N			3.1	38.1

41.21

W W

N			3.7	37.5
crb			4.1	37.1
W			4.6	36.6
M			5.0	36.2
W			5.4	35.8
crb			5.8	35.4
S			6.3	34.9

center

S			6.2	35.0
crb			5.8	35.4
W			5.4	35.8
M			5.0	36.2
W			4.6	36.6
crb			4.1	37.1
N			3.5	37.7

41.21

E. 1/4 27th St

N	3.2	38.0
crb	3.7	37.5
1/4	4.1	37.1
M	4.5	36.7
1/4	4.9	36.3
crb	5.6	35.6
S	6.0	35.2

E. curb

S	5.9	35.3
crb	5.5	35.7
1/4	4.7	36.5
M	4.4	36.8
1/4	4.1	36.1
crb	3.6	37.6
N	3.2	38.0

41.21

E.L. 27th St

N	3.0	38.2
crb	3.4	37.8
1/4	3.7	37.5
M	4.2	37.0
1/4	4.4	36.8
crb	5.4	35.8
S	5.8	35.4

0 + 25

S	5.5	35.7
crb	5.0	36.2
1/4	4.3	36.9
M	3.9	37.3
1/4	3.6	37.6
crb	2.8	38.4
N	2.3	38.9

	41.21		
	0+50		
N		2.9	38.3
crb		3.2	38.0
1/4		3.4	37.8
M		3.6	37.6
1/4		4.4	36.8
crb		4.6	36.6
S.		4.9	36.3
	0+75		
S		4.7	36.5
crb		4.0	37.2
1/4		3.6	37.6
M		3.2	38.0
1/4		2.7	38.5
crb		2.4	38.8
N		2.2	39.0

	41.21		
	1+0		
N		1.3	39.9
crb		1.6	39.6
1/4		2.0	39.2
M		3.1	38.1
1/4		4.5	36.7
crb		6.0	35.2
S		6.8	34.4
	1+25		
S		11.9	29.3
crb		10.4	30.8
1/4		8.6	32.6
M		6.8	34.4
1/4		5.2	36.0
crb		3.6	37.6
N		2.5	38.7

41.21

1+50

N	6.8	34.4
crb	7.9	33.3
1/4	9.7	31.5
M	11.2	30.0
1/4	13.1	28.1
crb	14.2	27.0
S	15.2	26.0

1+75

S	17.7	23.5
crb	16.5	24.7
1/4	15.9	25.3
M	14.9	26.3
1/4	13.5	27.7
crb	13.0	28.2
N	11.6	29.6

41.21

2+0

N	15.2	26.0
crb	15.7	25.5
1/4	16.4	24.8
M	17.1	24.1
1/4	17.2	24.0
crb	17.3	23.9
S	17.9	23.3

2+25

S	15.0	26.2
crb	15.3	25.9
1/4	15.2	26.0
M	15.5	25.7
1/4	15.6	25.6
crb	15.4	25.8
N	15.1	26.1

41.21

2+50

N	11.1	30.1
Crb	11.4	29.8
1/4	11.8	29.4
M	11.3	29.9
1/4	9.6	31.6
Crb	9.4	31.8
S	8.7	32.5

2+75

S	4.7	36.5
Crb	5.0	36.2
1/4	5.0	36.2
M	4.7	36.5
1/4	4.3	36.9
Crb	4.7	36.5
N	5.1	36.1

41.21

3+0

N	2.8	38.4
Crb	2.9	38.3
1/4	2.9	38.3
M	3.3	37.9
1/4	3.5	37.7
Crb	4.1	37.1
S	5.1	36.1

3+25

S	6.7	34.5
Crb	5.5	35.7
1/4	4.5	36.7
M	4.0	37.2
1/4	3.6	37.6
Crb	2.6	38.6
N	2.0	39.2

	41.21		
	3+50		
N		2.2	39.0
crb		3.5	37.7
"4		4.6	36.6
M		5.2	36.0
"4		6.6	34.6
crb		7.6	33.6
S.		8.2	33.0
	3+75		
S		9.5	31.7
crb		8.7	32.5
"4		8.1	33.1
M		6.8	34.4
"4		5.8	35.4
crb		4.5	36.7
N		2.8	38.4

	41.21		
	4+0		
N		5.0	36.2
crb		6.0	35.2
"4		6.8	34.4
M		7.0	34.2
"4		7.3	33.9
crb		7.4	33.8
S		6.6	34.6
	4+25		
S		4.0	37.2
crb		4.6	36.6
"4		5.0	36.2
M		5.4	35.8
"4		5.3	35.9
crb		5.1	36.1
N		4.6	36.6

		41.21		
		4+50		
N			2.6	38.6
crb			2.4	38.8
"/a			2.5	38.7
M			2.5	38.7
"/a			2.4	38.8
crb			2.2	39.0
S			1.8	39.4
T.P.	5.71	45.74	1.18	40.03
		4+75		
S			4.5	41.2
crb			4.5	41.2
"/a			4.5	41.2
M			4.7	41.0
"/a			5.0	40.7
crb			5.0	40.7
N			4.0	41.7

		45.74		
		5+0		
N			3.0	42.7
crb			3.1	42.6
"/a			3.2	42.5
M			3.4	42.3
"/a			3.6	42.1
crb			3.7	42.0
S			3.8	41.9
		5+25		
S			3.1	42.6
crb			2.6	43.1
"/a			2.3	43.4
M			1.6	44.1
"/a			1.7	44.0
crb			2.0	43.7
N			1.9	43.8

	45.74		
	5+50		
N		1.4	44.3
crb		1.7	44.0
"q		1.9	43.8
M		2.0	43.7
"q		2.4	43.3
crb		3.0	42.7
S		2.5	42.9
	5+75		
S		3.1	42.6
crb		2.9	42.8
"q		2.9	42.8
M		2.8	42.9
"q		2.2	43.5
crb		1.5	44.2
N		0.7	45.0

	45.74		
	5+95		
N		0.8	44.9
crb		1.1	44.6
"q		2.1	43.6
M		4.4	41.3
"q		3.2	42.5
crb		3.3	42.4
S		3.2	42.5
	5+99 =	W.L. 28th St	
S		5.8	39.9
crb		5.2	40.5
"q		4.8	40.9
M		4.9	40.8
"q		4.7	41.0
crb		3.9	41.8
N		3.9	41.8

45.74

W. curb 28 74

N	4.8	40.9
crb	5.5	40.2
1/4	5.6	40.1
M	5.5	40.2
1/4	6.1	39.6
crb	6.2	39.5
S.	6.4	39.3

W 1/4

S	6.7	39.0
crb	6.1	39.6
1/4	5.8	39.9
M	5.3	40.4
1/4	5.2	40.5
crb	4.8	40.9
N	4.6	41.1

45.74

Center

N	4.7	41.0
crb	5.0	40.7
1/4	5.3	40.4
M	5.6	40.1
1/4	5.8	39.9
crb	6.2	39.5
S	6.4	39.3

E 1/4

S	6.4	39.3
crb	5.9	39.8
1/4	5.6	40.1
M	5.4	40.3
1/4	5.2	40.5
crb	4.8	40.9
N	4.6	41.1

		45.74		
	E curb			
N			4.9	40.8
crb			5.0	40.7
1/4			5.2	40.5
M			5.3	40.4
1/4			5.6	40.1
crb			6.2	39.5
S.			6.8	38.9
	E.L. 28 1/4 st			
S			7.2	38.5
crb			6.5	39.2
1/4			5.9	39.8
M			5.5	40.2
1/4			5.1	40.6
crb			5.0	40.7
N			3.6	42.1

		0+25		
N			5.3	40.4
crb			6.9	38.8
1/4			9.0	36.7
M			9.9	35.8
1/4			10.3	35.4
crb			10.6	35.1
S.			11.9	33.8
T.P.	6.75	40.28	12.21	33.53
		0+50		
S			11.6	28.7
crb			11.0	29.3
1/4			10.5	29.8
M			8.7	31.6
1/4			7.7	32.6
crb			7.3	33.0
N			5.5	34.8

		40.28		
		0+75		
N			8.0	32.3
crb			9.4	30.9
1/4			11.5	28.8
M			11.6	28.7
1/4			12.2	28.1
crb			12.6	27.7
S			12.9	27.4
		1+0		
S			9.1	31.2
crb			9.1	31.2
1/4			11.0	29.3
M			12.0	28.3
1/4			12.1	28.2
crb			11.5	28.8
N			10.4	29.9

		40.28		
		1+25		
N			11.7	28.6
crb			10.2	30.1
1/4			8.7	31.6
M			7.7	32.6
1/4			6.0	34.3
crb			5.3	35.0
S.			4.7	35.6
		1+50		
S			0.5	39.8
crb			1.3	39.0
1/4			1.9	38.4
M			2.4	37.9
1/4			2.9	37.4
crb			3.3	37.0
N			6.1	34.2
T.P.	10.30	50.50	0.08	40.20

	50.50	
	1+75	
N	10.4	40.1
crb	9.5	41.0
1/4	9.3	41.2
M	8.7	41.8
1/4	8.2	42.3
crb	7.8	42.7
S	7.3	43.2
	2+0	
S	6.8	43.7
crb	6.5	44.0
1/4	6.0	44.5
M	5.9	44.6
1/4	7.0	43.5
crb	7.2	43.3
N	7.2	43.3

	50.50	
	2+25	
N	6.4	44.1
crb	6.1	44.4
1/4	5.6	44.9
M	5.5	45.0
1/4	5.7	44.8
crb	5.4	45.1
S	6.5	44.0
	2+50	
S	6.2	44.3
crb	5.8	44.7
1/4	5.3	45.2
M	4.8	45.7
1/4	4.6	45.9
crb	4.3	46.2
N	4.1	46.4

	50.50		
	2+75		
N		4.2	46.3
crb		4.4	46.1
"a		4.9	45.6
M		5.4	45.1
"a		5.9	44.6
crb		6.0	44.5
S.		6.2	44.3
	3+0		
S		5.9	44.6
crb		5.8	44.7
"a		5.4	45.1
M		5.3	45.2
"a		4.7	45.8
crb		4.7	45.8
N		4.5	46.0

	50.50		
	3+25		
N		4.8	45.7
crb		5.4	45.1
"a		5.5	45.0
M		5.8	44.7
"a		6.1	44.4
crb		6.6	43.9
S		6.8	43.7
	3+50		
S		7.1	43.4
crb		6.7	43.8
"a		6.0	44.5
M		5.6	44.9
"a		5.5	45.0
crb		5.2	45.3
N		5.0	45.5

	50.50		
	3+75		
N		4.5	46.0
Crb		4.8	45.7
1/4		5.3	45.2
M		5.8	44.7
1/4		5.9	44.6
Crb		6.4	44.1
S		6.8	43.7
	4+0		
S		6.1	44.4
Crb		5.5	45.0
1/4		5.8	45.2
M		5.3	45.2
1/4		4.7	45.8
Crb		4.3	46.2
N		3.5	47.0

	50.50		
	4+25		
N		3.9	46.6
Crb		4.2	46.3
1/4		4.3	46.2
M		4.3	46.2
1/4		5.1	45.4
Crb		5.3	45.2
S		5.9	44.6
	4+50		
S		5.8	44.7
Crb		5.6	44.9
1/4		5.4	45.1
M		5.2	45.3
1/4		4.3	46.2
Crb		3.7	46.8
N		4.0	46.5

50.50

4+75

N	4.4	46.1
crb	4.5	46.0
"a	4.8	45.7
M	5.1	45.4
"a	5.4	45.1
crb	5.5	45.0
S	5.5	45.0

5+0

S	5.4	45.1
crb	5.4	45.1
"a	5.0	45.5
M	4.4	46.1
"a	4.6	45.9
crb	4.3	46.2
N	4.4	46.1

50.50

5+25

N	4.2	46.3
crb	4.2	46.3
"a	4.3	46.2
M	4.6	45.9
"a	4.7	45.8
crb	4.9	45.6
S	5.1	45.4

5+50

S	5.1	45.4
crb	4.7	45.8
"a	4.4	46.1
M	3.8	46.7
"a	3.3	47.2
crb	3.4	47.1
N	4.2	46.3

	50.50		
	5+75		
N		4.0	46.5
crb		3.9	46.6
"4		3.8	46.7
M		4.1	46.4
"4		4.5	46.0
crb		4.5	46.0
S		5.2	45.3
	5+99 = W.L. 29 ft 5t		
S		5.0	45.5
crb		4.3	46.2
"4		4.1	46.4
M		3.9	46.6
"4		3.6	46.9
crb		3.3	47.2
N		3.3	47.2

	50.50		
	W. curb		
N		3.3	47.2
crb		3.9	46.6
"4		4.0	46.5
M		4.1	46.4
"4		4.4	46.1
crb		4.6	45.9
S		5.6	44.9
	W "4		
S		4.7	45.8
crb		4.1	46.4
"4		4.1	46.4
M		3.8	46.7
"4		3.5	47.0
crb		3.3	47.2
N		3.4	47.1

50.50

center

N			3.2	47.3	
Crb			3.0	47.5	
W/A			3.0	47.5	
M			3.6	46.9	
W/A			4.0	46.5	
Crb			4.3	46.2	
S			4.6	45.9	

E W/A

S			4.4	46.1	
Crb			4.2	46.3	
W/A			3.9	46.6	
M			3.4	47.1	
W/A			3.0	47.5	
Crb			2.7	47.8	
N			2.7	47.8	

50.50

E curb

N			2.0	48.5	
Crb			1.9	48.6	
W/A			2.6	47.9	
M			3.5	47.0	
W/A			3.9	46.6	
Crb			4.2	46.3	
S			4.2	46.3	

E.L. 29th St

S			4.1	46.4	
Crb			3.9	46.6	
W/A			3.7	46.8	
M			3.3	47.2	
W/A			2.3	48.2	
Crb			1.6	48.9	
N			1.7	48.8	
T.P.	7.05	53.66	3.89	46.61	Spk. Tel Pole S.W. Cor 29th & Boston

53.66 12/26/08 Dunkle Shaw Thomas

0+25

N			4.7	49.0
Crb			4.3	49.4
1/4			4.3	49.4
M			5.0	48.7
1/4			5.5	48.2
Crb			5.8	47.9
S			7.1	46.6

0+50

S			6.8	46.9
Crb			5.0	48.7
1/4			5.1	48.6
M			4.9	48.8
1/4			4.4	49.3
Crb			4.3	49.4
N			4.4	49.3

53.66

0+75

N			3.9	49.8
Crb			4.7	49.0
1/4			5.2	48.5
M			5.3	48.4
1/4			5.6	48.1
Crb			5.9	47.8
S			6.4	47.3

1+0

S			6.2	47.5
Crb			5.7	48.0
1/4			5.2	48.5
M			5.0	48.7
1/4			4.7	49.0
Crb			4.7	49.0
N			4.1	49.6

	5366		
	1+25		
N		3.8	49.9
crb		4.5	49.2
1/4		4.7	49.0
M		5.0	48.7
1/4		5.0	48.7
crb		5.6	48.1
S		6.1	47.6
	1+50		
S		5.6	48.1
crb		5.4	48.3
1/4		5.2	48.5
M		5.1	48.6
1/4		4.7	49.0
crb		4.1	49.6
N		3.5	50.2

	5366		
	1+75		
N		3.0	50.7
crb		3.6	50.1
1/4		4.2	49.5
M		4.4	49.3
1/4		3.8	49.9
crb		3.8	49.9
S		5.0	48.7
	2+0		
S		5.6	48.1
crb		4.9	48.8
1/4		4.4	49.3
M		4.0	49.7
1/4		3.7	50.0
crb		3.6	50.1
N		3.2	50.5

53.66

2+25

N	4.0	49.7
crb	4.4	49.3
1/4	4.4	49.3
M	4.7	49.0
1/4	5.0	48.7
crb	5.5	48.2
S	5.6	48.1

2+50

S	5.8	47.9
crb	5.4	48.3
1/4	5.3	48.4
M	4.8	48.9
1/4	4.6	49.1
crb	4.5	49.2
N	3.9	49.8

53.66

2+75

N	3.7	50.0
crb	4.2	49.5
1/4	4.4	49.3
M	4.9	48.8
1/4	5.0	48.7
crb	5.5	48.2
S	5.8	47.9

3+0

S	5.5	48.2
crb	5.1	48.6
1/4	5.0	48.7
M	4.4	49.3
1/4	4.1	49.6
crb	3.7	50.0
N	3.1	50.6

53.66

3+25

N	3.1	50.6
Crb	3.1	50.6
1/4	3.4	50.3
M	4.0	49.7
1/4	4.5	49.2
Crb	5.4	48.3
S.	5.7	48.0

3+50

S	5.4	48.3
Crb	5.2	48.5
1/4	4.5	49.2
M	3.7	50.0
1/4	3.3	50.4
Crb	3.0	50.7
N	2.7	51.0

53.66

3+75

N	3.0	50.7
Crb	3.3	50.4
1/4	3.6	50.1
M	3.8	49.9
1/4	4.1	49.6
Crb	4.4	49.3
S	4.5	49.2

4+0

S	4.9	48.8
Crb	4.1	49.6
1/4	4.1	49.6
M	4.0	49.7
1/4	3.1	50.6
Crb	3.7	50.0
N	4.2	49.5

		53.66			
		4+25			
N			10.2	43.5	
Crk			6.6	47.1	
1/4			4.5	49.2	
M			4.3	49.4	
1/4			4.6	49.1	
Crk			7.1	46.6	
S			10.9	42.8	
T.P.	3.83	45.14	12.35	41.31	
		4+50			
S			9.4	35.7	
Crk			6.8	38.3	
1/4			5.5	39.6	
M			4.6	40.5	
1/4			5.8	39.3	
Crk			7.5	37.6	
N			9.7	35.4	

		45.14			
		4+75			
N			12.4	32.7	
Crk			12.8	32.3	
1/4			13.3	31.8	
M			13.7	31.4	
1/4			13.1	32.0	
Crk			13.9	31.2	
S			14.3	30.8	
		5+0			
S			14.9	30.2	
Crk			14.3	30.8	
1/4			13.9	31.2	
M			13.7	31.4	
1/4			13.2	31.9	
Crk			12.9	32.2	
N			12.2	32.9	

		45.14		
		5+25		
N			9.7	35.4
crb			11.5	33.6
1/4			12.6	32.5
M			12.7	32.4
1/4			12.6	32.5
crb			12.0	33.1
S			10.8	34.3
		5+50		
S			2.6	42.5
crb			4.5	40.6
1/4			7.6	37.5
M			10.9	34.2
1/4			10.8	34.3
crb			9.7	35.4
N			7.9	37.2
T.P.	10.25	53.54	1.85	43.29

		53.54		
		5+75		
N			14.0	39.5
crb			15.5	38.0
1/4			17.4	36.1
M			17.2	36.3
1/4			14.3	39.2
crb			8.4	45.1
S			3.5	50.0
		5+98 = W.L. 30 th 5+		
S			3.4	50.1
crb			7.6	45.9
1/4			12.0	41.5
M			14.4	39.1
1/4			15.9	37.6
crb			15.1	38.4
N			11.6	41.9

53.54

W. curb.

N	10.4	43.1
crb	13.8	39.7
1/4	14.6	38.9
M	12.7	40.8
1/4	11.3	42.2
crb	8.5	45.0
S	3.2	50.3

W 1/4

S	4.2	49.3
crb	8.6	44.9
1/4	11.1	42.4
M	12.1	41.4
1/4	13.2	40.3
crb	12.9	40.6
N	10.2	43.3

53.54

center

N	10.3	43.2
crb	12.1	41.4
1/4	12.0	41.5
M	11.5	42.0
1/4	10.9	42.6
crb	8.4	45.1
S	3.6	49.9

E 1/4

S	2.9	50.6
crb	5.9	47.6
1/4	9.5	44.0
M	10.2	43.3
1/4	10.5	43.0
crb	10.9	42.6
N	10.4	43.1

53.54

E. curb

N	9.7	43.8
crb	8.9	44.6
1/4	9.3	44.2
M	8.9	44.6
1/4	8.2	45.3
crb	5.2	48.3
S	3.1	50.4

El. 30 to St

S	3.2	50.3
crb	4.3	49.2
1/4	6.4	47.1
M	7.4	46.1
1/4	7.8	45.7
crb	8.3	45.2
N	8.0	45.5

continued in book no 438 P 1

#400

Spk in bale S.W. Cor. India & Nutmeg				90.07
	0.18	90.19	12.93	77.26
	0.26	77.52	13.01	64.51
	0.47	64.98	9.78	55.20
	0.96	56.16		

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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.		