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

400

LEVEL

F.B. 453

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

Rocket 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.

453

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	130⅔
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 TRADE MARK PRIMO

FROM
Loring's Book Store

MANUFACTURED BY

A. S. Crocker Co.

SAN FRANCISCO
and
SACRAMENTO

4.66

153.7

Index -

Myrtle - - - - - 75

B.M.s

N.W.	Georgia & Robinson Co. Hub	1321.51 (old)
S.W.	" " Cypress " "	269.83 (old)
N.W.	Robinson & Florida	279.18 (new)
S.W.	Cypress " "	238.95
N.E.	Myrtle " "	203.54
E.L.	Alabama & Park Line	264.26
W.L.	Miss. " " "	273.49
(300) E.L.	Louisiana	278.36
E.L.	Texas	281.47
S.E.	Mississippi & Landis	276.98
S.E.	Louisiana " "	288.47
S.W.	Dwight & Louisiana	280.94
N.E.	Myrtle " "	277.19
N.E.	Texas & Landis	308.23

brass Rlg	center Reservoir	369.16
"	" N. E "	373.35
"	" N. W.	373.87
"	"	

Levels on Arnold St University to Park Line
Arnold 65' wide

Dwyer
Shaw
Lambert
3/22/09

B.M. R.R. SPK	N.W. Univ & Arizona			301.80	
B.M.	6.42	308.22		301.80	
	S.L. University				
E			1.8	306.4	
ctr			3.0	305.2	
W			3.5	304.7	
		0+25 S			
W			5.2	303.0	
ctr			3.8	304.4	
E			4.3	303.9	
		0+50			
E			5.0	303.2	
ctr			5.9	302.3	
W			6.1	302.1	
		0+75			
W			6.5	301.7	
ctr			6.3	301.9	
E			5.5	302.7	

POSTED

		1+0			
E			6.1	302.1	
ctr			6.5	301.7	
W			7.3	300.9	
		1+25			
W			7.7	300.5	
ctr			7.0	301.2	
E			6.4	301.8	
		1+50			
E			6.6	301.6	
ctr			7.8	300.4	
W			8.4	299.8	
		1+75			
W			9.0	299.2	
ctr			8.2	300.0	
E			7.3	300.9	

309.22

2+0

E	8.4	299.8
ctr	8.7	299.5
W	9.8	298.4

2+25

W	10.3	297.9
ctr	9.3	298.9
E	8.2	300.0

2+49.5 = W.L. Wightman 60'

E	7.9	300.3
ctr	9.7	298.5
W	10.9	297.3

Center

W	11.1	297.1
ctr	9.8	298.4
E	8.0	300.2

S.L. Wightman

E	8.6	299.6
ctr	10.2	298.0
W	11.8	296.4

0+25.5

W	11.8	296.4
ctr	10.9	297.3
E	9.5	298.7

0+50

E	10.0	298.2
ctr	11.7	296.5
W	12.5	295.7

0+75

W	13.6	294.6
ctr	12.5	295.7
E	10.6	297.6

T.P.	3.66	301.18	10.70	297.52

	301.18		
	1+0		
E		3.7	297.5
ctr		5.4	295.8
W		7.1	294.1
	1+25		
W		7.5	293.7
ctr		5.8	295.4
E		3.7	297.5
	1+50		
E		5.1	296.1
ctr		6.3	294.9
W		7.9	293.3
	1+75		
W		7.3	2939
ctr		6.9	294.3
E		5.3	295.9

	2+0		
E	304.18	5.4	295.8
ctr		7.1	294.1
W		8.3	292.9
	2+25		
W		8.6	292.4
ctr		7.4	7938
E		5.4	295.8
	2+50		
E		5.1	296.1
ctr		7.4	293.8
W		8.5	292.7
	2+75		
W		8.7	292.5
ctr		7.2	294.0
E		5.8	295.4

301.18

3+00

E	5.4	295.8
Ctr	7.0	294.2
W	8.4	292.8

3+25

W	8.6	292.6
Ctr	7.9	293.3
E	5.5	295.7

3+50

E	6.3	294.9
Ctr	7.5	293.7
W	8.9	292.3

3+75

W	8.9	292.3
Ctr	7.7	293.5
E	6.0	295.2

4+00

E	5.0	296.2
Ctr	6.8	294.4
W	8.4	292.8

4+25

W	8.2	293.0
Ctr	6.6	294.6
E	4.4	296.8

4+50

E	1.1	297.1
Ctr	5.4	295.8
W	7.9	293.3

4+75

W	7.7	293.5
Ctr	5.7	295.5
E	4.2	297.0

301.18

5+0

E	4.1	297.1
ctr	5.6	295.6
W	7.3	293.9

5+25

W	7.7	293.5
ctr	5.6	295.6
E	4.3	296.9

5+50

E	4.5	296.7
ctr	6.4	294.8
W	8.2	293.0

5+75

W	8.7	292.5
ctr	7.0	294.2
E	4.2	297.0

18 297.29

5799 = N.L. Landis 5+60

E	4.2	297.0
ctr	7.1	294.1
W	8.7	292.5

center

W	8.8	292.4
ctr	7.1	294.1
E	5.7	295.7

S.L. Landis 5+

E	5.8	295.4
ctr	6.4	294.8
W	9.0	292.2

0+75 S

W	10.0	291.2
ctr	6.8	294.4
E	5.9	295.3

	301.18		
	0+50 S		
E		6.3	294.9
ctr		7.6	293.6
W		10.1	291.1
	0+75		
W		10.3	290.9
ctr		9.0	292.2
E		6.9	294.3
	1+0		
E		6.1	295.1
ctr		8.6	292.6
W		10.5	290.7
	1+25		
W		10.4	290.8
ctr		8.1	293.1
E		6.1	295.1

		1+50		
E			6.7	294.5
ctr			8.8	292.4
W			10.4	290.8
		1+75		
W			10.3	290.9
ctr			8.5	292.7
E			6.9	294.3
		2+0		
E			5.9	295.3
ctr			7.5	293.7
W			10.0	291.2
T.P.	.583	300.07	6.94	294.29
		2+25		
W			8.7	291.4
ctr			6.5	293.6
E			4.4	295.7

300.07

2+50

E	5.2	294.9
ctr	6.6	293.5
W	8.6	291.5

2+75

W	8.5	291.6
ctr	6.4	293.7
E	5.5	294.6

3+0

E	4.9	295.2
ctr	6.9	293.2
W	8.5	291.6

3+25

W	7.1	293.0
ctr	6.1	294.0
E	5.1	295.0

3+50

E	300.07	4.2	295.9
ctr		5.9	294.2
W		6.5	293.6

3+75

W	5.8	294.3
ctr	5.1	295.0
E	5.1	295.0

4+0

E	4.8	295.3
ctr	5.0	295.1
W	5.3	294.8

4+25

W	5.4	294.7
ctr	4.5	295.6
E	5.2	294.9

		300.07			
		4+50			
E			5.3	294.8	
ctr			5.9	294.2	
W			6.4	293.7	
		4+75			
W			7.8	292.3	
ctr			6.8	293.3	
E			6.6	293.5	
		5+0			
E			7.9	292.2	
ctr			8.5	291.6	
W			9.3	290.8	
		5+25			
W			10.6	289.5	
ctr			10.2	289.9	
E			9.2	290.9	

		5+50			
E			10.4	289.7	
ctr			11.2	288.9	
W			12.0	288.1	
		5+75			
W			12.7	287.4	
ctr			11.8	288.3	
E			11.4	288.7	
6+00 = N.L. Dwight St 60'					
E			12.6	287.5	
ctr			13.0	287.1	
W			13.5	286.6	
T.P.	4.99	292.50	12.56	287.51	hub N.E. Cor Dwight & Arnold
center Dwight					
W			6.3	286.2	
ctr			5.5	287.0	
E			5.5	287.0	

292.50

S.L. Dwight.

E		5.7	286.8
ctr		5.8	286.7
W		7.1	285.4
	0+25		
W		7.2	285.3
ctr		6.5	286.0
E		5.8	286.7
	0+50		
E		5.3	287.2
ctr		6.4	286.1
W		7.2	285.3
	0+75		
W		6.7	285.8
ctr		5.5	287.0
E		4.8	287.7

	1+0		
E	292.50	5.4	287.1
ctr		6.2	286.3
W		6.5	286.0
	1+25		
W		6.8	285.7
ctr		6.7	285.8
E		6.0	286.5
	1+50		
E		6.2	286.3
ctr		7.0	285.5
W		7.4	285.1
	1+75		
W		7.6	284.9
ctr		7.6	284.9
E		7.0	285.5

		292.50			
		2+0			
E			7.3	285.2	
ctr			8.0	284.5	
W			8.3	284.2	
		2+25			
W			9.0	283.5	
ctr			8.2	284.3	
E			7.8	284.7	
		2+50			
E			8.0	284.5	
ctr			9.1	283.4	
W			9.2	283.3	
		2+75			
W			9.8	282.7	
ctr			9.5	283.0	
E			8.7	283.8	
T.P	4.49	292.00	9.99	287.51	Hub N.E. Cor Dwight x Arnold
T.P.	4.75	287.81	8.94	283.06	

		287.81			
		3+0			
E			4.8	283.0	
ctr			4.6	283.2	
W			5.9	281.9	
		3+25			
W			6.5	281.3	
ctr			6.0	281.8	
E			5.4	282.4	
		3+50			
E			5.9	281.9	
ctr			6.4	281.4	
W			8.1	279.7	
		3+75			
W			7.3	280.5	
ctr			7.2	280.6	
E			6.3	281.5	

	287.81		
	4+00		
E		5.9	281.9
ctr		6.5	281.3
W		7.2	280.6
	4+25		
W		7.3	280.5
ctr		6.3	281.5
E		5.2	282.6
	4+50		
E		4.8	283.0
ctr		5.7	282.1
W		7.2	280.6
	4+75		
W		6.9	280.9
ctr		5.6	282.2
E		4.6	283.2

	5+00		
E		5.0	282.8
ctr		6.0	281.8
W		6.9	280.9
	5+25		
W		7.3	280.5
ctr		6.6	281.2
E		5.8	282.0
	5+50		
E		6.7	281.1
ctr		6.9	280.9
W		8.1	279.7
	5+75		
W		8.9	278.9
ctr		8.0	279.8
E		7.3	280.5

POSTED

287.91

5+99.5 = N.L. Myrtle, St 60'

E	7.8	280.0
Ctr	8.6	279.2
W	9.4	278.4
center		
W	9.3	278.5
Ctr	8.6	279.2
E	8.0	279.8
S.L. Myrtle,		
E	8.7	279.1
Ctr	9.0	278.8
W	9.4	278.4
0+25 S		
W	10.5	277.3
Ctr	9.9	277.9
E	9.6	278.2

0+50

E	10.5	277.3
Ctr	10.8	277.0
W	11.2	276.6
0+75		
W	12.2	275.6
Ctr	11.6	276.2
E	11.5	276.3
T.P. 1.13	276.27	12.67 275.14
1+0		
E	1.0	275.3
Ctr	2.0	274.3
W	2.1	274.2
1+25		
W	3.5	272.8
Ctr	3.7	272.6
E	3.4	272.9

276.27

1+50

E	5.0	271.3
ctr	5.4	270.9
W	4.6	271.7

1+75

W	6.0	270.3
ctr	7.2	269.1
E	7.4	268.9

2+0

E	8.9	267.4
ctr	8.7	267.6
W	7.2	269.1

2+25

W	8.0	268.3
ctr	10.0	266.3
E	10.8	265.5

2+50

E	12.2	264.1
ctr	11.5	264.8
W	9.0	267.3

2+75

W	9.8	266.5
ctr	12.3	264.0
E	13.3	263.0

3+0

E	14.7	261.6
ctr	13.3	263.0
W	11.1	265.2

3+48.5 on W.L. 3+49.5 on E.L. = Park Line

W	13.0	263.3
ctr	15.1	261.2
E	17.6	258.7

POSTED

Levels on Walker St University to Park Line

3/23/09 Dunkle Shaw Lambert

B.M. bolt N.E. Cor Hamilton & Univ				311.51	
B.M.	11.46	322.97		311.51	
	S.L. University				
W			2.9	320.1	
ctr			2.4	320.6	
E			0.2	322.8	
		0+25	5		
E			1.1	321.7	
ctr			3.5	319.5	
W			6.0	317.0	
		0+50			
W			7.0	316.0	
ctr			4.6	318.4	
E			2.6	320.4	
		0+75			
E			3.7	319.3	
ctr			5.5	317.5	
W			7.9	315.1	

POST

		1+0			
W			8.9	314.1	
ctr			6.8	316.2	
E			4.9	318.1	
		1+25			
E			5.9	317.1	
ctr			7.6	315.4	
W			9.7	313.3	
		1+50			
W			10.4	312.6	
ctr			9.0	314.0	
E			7.5	315.5	
		1+75			
E			9.4	313.6	
ctr			10.7	312.3	
W			11.6	311.4	

POSTED

322.97

2+0

W		12.1	310.9
ctr		10.5	312.5
E		9.0	314.0

2+25

E		7.7	315.3
ctr		10.1	312.9
W		11.3	311.7

2+49 8 = N.L. Wightman 60'

W		9.2	313.8
ctr		8.3	314.7
E		5.8	317.2

Center

E		2.7	320.3
ctr		5.3	317.7
W		7.3	315.7

S.L. Wightman 6'

W		6.9	316.1
ctr		3.5	319.5
E		0.2	322.8
T.P.	7.49	328.66	1.80	321.17

0+25 S

E		4.5	324.2
ctr		8.1	3206
W		11.9	316.8

0+50

W		10.9	317.8
ctr		7.3	321.4
E		3.3	325.4

0+75

E		2.6	326.1
ctr		6.7	322.0
W		10.9	317.8

328.66

1+00

W	10.7	318.0
Ctr	6.4	322.3
E	2.6	326.1

1+25

E	2.4	326.3
Ctr	6.5	322.2
W	10.9	317.8

1+50

W	10.5	318.2
Ctr	6.2	322.5
E	2.3	326.4

1+75

E	1.3	327.4
Ctr	5.6	323.1
W	9.7	319.0

POSTED

2+00

W	9.5	319.2
Ctr	5.2	323.5
E	1.4	327.3

2+25

E	1.2	327.5
Ctr	5.3	323.4
W	9.3	319.4

2+50

W	9.6	319.1
Ctr	5.0	323.7
E	1.4	327.3

2+75

E	1.1	327.6
Ctr	4.3	324.4
W	8.9	319.8

328.66

	3+0		
W		9.1	319.6
Ctr		4.9	323.8
E		1.3	327.4
	3+25		
E		1.4	327.3
Ctr		4.9	323.8
W		9.1	319.6
	3+50		
W		9.6	319.1
Ctr		5.4	323.3
E		2.3	326.4
	3+75		
E		3.3	325.4
Ctr		6.1	322.6
W		10.5	318.2

	4+0		
W		10.0	318.7
Ctr		6.6	322.1
E		3.7	325.0
	4+25		
E		4.3	324.4
Ctr		6.8	321.9
W		10.2	318.5
	4+50		
W		10.9	317.8
Ctr		8.3	320.4
E		5.7	323.0
	4+75		
E		6.4	322.3
Ctr		8.5	320.2
W		11.3	317.4

	328.66		
5+00			
W		12.4	316.3
Ctr		10.0	318.7
E		7.7	321.0
5+25			
E		8.1	320.6
Ctr		10.2	318.5
W		12.5	316.2
5+50			
W		12.5	316.2
Ctr		10.5	318.2
E		8.5	320.2
5+75			
E		8.6	320.1
Ctr		10.9	317.8
W		14.2	314.5

5+99	= N.L. Landis St 60'		
W	328.66	14.9	313.8
Ctr		11.7	317.0
E		8.3	320.4
T.P	0.79	321.05	8.40	320.26
center			
E			1.9	319.2
Ctr			4.0	317.1
W			7.9	313.2
S.L. Landis St,			
W			8.6	312.5
Ctr			5.7	315.4
E			1.9	319.2
0+25 S			
E			2.6	318.5
Ctr			6.2	314.9
W			9.5	311.6

321.05

0+50

W		10.9	310.2
Ctr		6.8	314.3
E		2.8	318.3

0+75

E		4.0	317.1
Ctr		8.2	312.9
W		11.9	309.2

1+0

W		12.6	308.5
Ctr		9.6	311.5
E		5.6	315.5

1+25

E		6.8	314.3
Ctr		10.3	310.8
W		14.7	306.4

1+50

W		14.4	306.7
Ctr		11.5	309.6
E		7.2	313.9

1+75

E		9.2	311.9
Ctr		12.1	309.0
W		15.5	305.6

2+0

W		15.2	305.9
Ctr		12.4	308.7
E		9.5	311.6
T.P.	5.51	313.95	12.61	308.44

2+25

E		1.6	312.4
Ctr		5.5	308.5
W		8.1	305.9

313.95

2+50			
W		8.4	305.6
ctr		5.3	308.7
E		2.4	311.6
2+75			
E		2.9	311.1
ctr		6.8	307.2
W		9.0	305.0
3+0			
W		9.3	304.7
ctr		6.7	307.3
E		2.9	311.1
3+25			
E		2.5	311.5
ctr		6.7	307.3
W		10.1	303.9

3+50			
W		9.8	304.2
ctr		6.8	307.2
E		2.4	311.6
3+75			
E		3.2	310.8
ctr		7.3	306.7
W		9.6	304.4
4+0			
W		10.9	303.1
ctr		7.8	306.2
E		3.8	310.2
4+25			
E		4.5	309.5
ctr		8.9	305.1
W		11.2	302.8

313.95

4+50			
W		12.4	301.6
Ctr		10.2	303.8
E		5.9	308.1
4+75			
E		7.4	306.6
Ctr		11.0	303.0
W		14.2	299.8
5+0			
W		14.1	299.9
Ctr		12.5	301.5
E		8.8	305.2
T.P.	1.91	304.25	11.61	302.34
5+25			
E		0.6	303.7
Ctr		3.3	301.0
W		6.1	298.2

5+50			
W	304.25	6.6	297.7
Ctr		4.3	300.0
E		1.4	302.9
5+75			
E		1.8	302.5
Ctr		5.5	298.8
W		7.0	297.3
5+99	= N.L. Dwight St 60'		
W		6.5	297.8
Ctr		5.4	298.9
E		3.2	301.1
Center			
E		3.9	300.4
Ctr		5.5	298.8
W		7.8	296.5

304.25

S.L. Dwight St.

W		8.3	296.0
ctr		6.1	298.2
E		3.7	300.6
	0+25's of Dwight		
E		3.4	300.9
ctr		6.5	297.8
W		8.8	295.5
	0+50		
W		7.8	296.5
ctr		6.4	297.9
E		4.3	300.0
	0+75		
E		4.5	299.8
ctr		6.7	297.6
W		8.5	295.8

	1+0			
W		8.9	295.4	
ctr		7.4	296.9	
E		5.3	299.0	hub S.E. Cor
T.P.	4.58	305.12	3.71	300.54 Dwight & Walker
	1+25			
E		6.8	298.3	
ctr		8.8	296.3	
W		10.6	294.5	
	1+50			
W		10.9	294.2	
ctr		9.1	296.0	
E		7.3	297.8	
	1+75			
E		7.5	297.6	
ctr		9.5	295.6	
W		11.1	294.0	

305.12

2+0

W	11.2	293.9
Ctr	8.8	296.3
E	6.0	299.1

2+25

E	5.7	299.4
Ctr	8.3	296.8
W	10.9	294.2

2+50

W	10.5	294.6
Ctr	7.8	297.3
E	4.9	300.2

2+75

E	4.5	300.6
Ctr	7.2	297.9
W	10.1	295.0

3+0

W	9.7	295.4
Ctr	6.6	298.5
E	4.2	300.9

3+25

E	3.4	301.7
Ctr	6.3	298.8
W	9.7	295.4

3+50

W	9.6	295.4
Ctr	6.4	298.7
E	2.7	302.4

3+75

E	2.3	302.8
Ctr	6.1	299.0
W	10.2	294.9

305.12

4+0

W			10.2	294.9
Ctr			6.7	298.4
E			1.4	303.7
T.P.	6.85	310.27	1.70	303.42

4+25

E			7.7	302.6
Ctr			11.2	299.1
W			15.2	295.1

4+50

W			14.1	296.2
Ctr			10.2	300.1
E			5.4	304.9

4+75

E			3.6	306.7
Ctr			8.7	301.6
W			12.2	298.1

5+0

W		310.27	11.2	299.1
Ctr			7.5	302.8
E			2.6	307.7

5+25

E			1.4	308.9
Ctr			6.4	303.9
W			10.6	299.7

5+50

W			10.5	299.8
Ctr			5.7	304.6
E			0.8	309.5
T.P.	4.91	314.35	0.83	309.44

5+75

E			4.9	309.5
Ctr			9.4	305.0
W			14.7	299.7

314.35

5+99	= N.L. Myrtle 60' wide		
W		14.6	299.8
Ctr		9.9	305.0
E		4.8	309.6
	Center		
E		4.6	309.8
Ctr		9.8	304.6
W		13.9	300.5
	S.L. Myrtle,		
W		15.0	299.4
Ctr		9.7	304.7
E		9.8 / 4.82	309.6
	0+25		
E		5.0	309.4
Ctr		9.5	304.9
W		15.5	298.9

hub S.E Cor Walnut & Myrtle

	0+50		
W		16.3	298.1
Ctr		10.2	304.2
E		5.3	309.1
	0+75		
E		5.5	308.8
Ctr		10.6	303.8
W		16.9	297.5
	1+0		
W		17.8	296.6
Ctr		10.5	303.9
E		5.9	308.5
T.P.	1.11	309.23	6.23 308.12
	1+25		
E		1.6	307.6
Ctr		6.8	302.4
W		13.7	296.0

309.23

1+50

W		13.9	295.3
Ctr		7.8	301.4
E		2.7	306.5

1+75

E		3.1	306.1
Ctr		9.7	299.5
W		16.5	292.7

2+0

W		18.4	290.8
Ctr		11.5	297.7
E		4.5	304.7
T. P.	0.21	302.97	6.97	302.76

2+25

E		0.1	302.9
Ctr		6.5	296.5
W		14.1	288.9

2+50

W		15.5	287.5
Ctr		8.7	294.3
E		2.1	300.9

2+75

E		3.5	299.5
Ctr		10.3	292.7
W		17.2	285.8

3+0

W		19.2	283.8
Ctr		12.3	290.7
E		5.3	297.7

3+25

E		6.8	296.2
Ctr		14.7	288.3
W		21.3	281.7

302.97

3+53.9 on W. side & 3+54.9 on E. side = Park Line

W	24.9	278.1
ctr	16.2	286.8
E	8.1	294.9

POSTED

Levels Alabama St University To Park Line

Ala. 173.3' wide at Univ & 153.7' wide at UPas. 3/ Drinkle 25/ Shaw 09 Lambert

B.M. Mon N.E. Univ. & Alabama 265.57

B.M.	3.77	269.34		265.57
	S.L. University			
W			4.2	265.1
ctr			5.1	264.2
E.			4.7	264.6
	0+25 S of Univ.			
E			4.9	264.4
ctr			9.2	260.1
W			15.9	253.4
		0+50		
W			18.9	250.4
ctr			13.9	255.4
E			5.1	264.2
		0+75		
E			3.8	265.5
ctr			20.5	248.8
W			21.1	248.2

POSTED

		1+0		
W			22.5	246.8
ctr			16.8	252.5
E			3.2	266.1
		1+25		
E			3.2	266.1
ctr			13.2	256.1
W			24.6	244.7
		1+50		
W			27.3	242.0
ctr			11.8	257.5
E			3.6	265.7
		1+75		
E			4.5	264.8
ctr			12.6	256.7
W			25.3	244.0

POSTED

269.34

2+00

W	28.7	240.6
ctr	13.9	255.4
E	4.8	264.5

2+25

E	4.3	265.0
ctr	14.5	254.8
W	30.5	238.8

2+50

W	31.0	238.3
ctr	14.5	254.8
E	4.8	264.5

2+75

E	5.9	263.4
ctr	15.4	253.9
W	31.6	237.7

2+97.7 = N.L. Wightman 60'

W	31.6	237.7
ctr	16.5	252.8
E	6.9	262.4

3+57.7 = S.L. Wightman

E	7.5	261.8
ctr	24.7	244.6
W	31.4	237.9

4+00

W	31.6	237.7
ctr	18.1	251.2
E	6.7	262.6

4+25

E	6.3	263.0
ctr	24.8	244.5
W	31.7	237.6

	269.34		
	4+50		
W		31.7	237.6
ctr		28.1	241.2
E		6.1	263.2
	4+75		
E		5.2	264.1
ctr		26.2	243.1
W		32.1	237.2
	5+0		
W		32.9	236.4
ctr		22.2	247.1
E		4.8	264.5
	5+25		
E		4.1	265.2
ctr		15.6	253.7
W		33.7	235.6

		5+50		
W		35.2	234.1	
ctr		4.3	265.0	
E		13.0	256.3	
		5+75		
E		4.1	265.2	
ctr		11.8	257.5	
W		35.6	233	
T.P	3.72	269.03	403	265.31
		6+0		
W		29.9	239.1	
ctr		11.0	258.0	
E		3.8	265.2	
		6+44 = N.L. Robinson 80'		
E		4.0	265.0	
ctr		11.2	257.8	
W		29.1	239.9	

269.03

6+84 = Center Robinson

W		30.3	238.7
Ctr		11.8	257.2
E.		4.2	264.8

7+24 = S.L. Robinson

E		5.0	264.0
Ctr		12.3	256.7
W		30.5	238.5

7+50

W		29.1	239.9
Ctr		12.2	256.8
E		6.1	262.9

7+75

E		8.1	260.9
Ctr		13.1	255.9
W		28.2	240.8

8+0

W		28.0	241.0
Ctr		14.7	254.3
E		11.1	257.9

8+25

E		13.7	255.3
Ctr		17.1	251.9
W		26.7	242.3
T.P.	0.78	257.04	12.72 256.26

8+50

W		15.6	241.4
Ctr		7.5	249.5
E		6.0	251.0

8+75

E		10.2	246.8
Ctr		10.4	246.6
W		16.1	240.9

POSTED

257.04

9+0

W	17.2	239.8
ctr	14.5	242.5
E	23.9	233.1

9+25

E	21.3	235.7
ctr	22.1	234.9
W	19.5	237.5

9+61 5 = M.L. Landis 60' wide

W	26.2	230.8
ctr	25.0	232.0
E	18.6	238.4

10+21 5 = S.L. Landis

E	8.0	249.0
ctr	13.2	243.8
W	24.5	232.5

10+50

W	15.2	241.8
ctr	9.5	247.5
E	4.1	252.9

10+75

E	2.8	254.2
ctr	7.7	249.3
W	14.5	242.5

11+0

W	14.7	242.3
ctr	7.6	249.4
E	1.6	255.4

11+25

E	2.0	255.0
ctr	7.4	249.6
W	15.4	241.6

		257.04		
		11+50		
W			16.8	240.2
ctr			8.1	248.9
E			1.8	256.2
T. P.	4.20	259.83	1.41	255.62
		11+75		
E			3.6	256.2
ctr			11.2	248.6
W			21.4	238.4
		12+0		
W			29.8	230.0
ctr			11.5	248.3
E			2.6	257.2
		12+25		
E			1.3	258.5
ctr			11.8	248.0
W			35.2	224.6

		259.83		
		12+50		
W			41.2	218.6
ctr			11.8	248.0
E			0.9	258.9
		12+75		
E			2.0	257.8
ctr			13.3	246.5
W			41.3	218.5
		13+0		
W			37.8	222.0
ctr			14.5	245.3
E			3.5	256.3
		13+25		
E			6.1	253.7
ctr			16.6	243.2
W			33.9	225.9

259.83

13+50

W			35.3	224.5
ctr			18.9	240.9
E			9.1	250.7
T.P.	0.26	247.57	12.52	247.31

13+75

E			1.4	246.2
ctr			10.0	237.6
W			26.3	221.3

14+03.5 = N.L. Cypress 80' wide

W			26.0	221.6
ctr			19.2	228.4
E			14.5	233.1

14+43.5 = Center Cypress

E			4.3	243.2
ctr			11.5	236.1
W			27.1	220.5
T.P.	12.67	260.14	0.10	247.47

260.19

14+83.5 = S.L. Cypress.

W			39.8	220.3
ctr			14.8	245.3
E			5.6	254.5
T.P.	10.94	269.75	1.33	258.81

15+25

E			8.8	261.0
ctr			19.5	250.3
W			44.5	225.3

15+50

W			37.4	232.4
ctr			15.4	254.4
E			6.8	263.0

15+75

E			5.2	264.6
ctr			13.0	256.8
W			28.3	241.5

269.75

16+0

W	25.1	244.7
ctr	11.5	258.3
E	3.9	265.9

16+22 = N.L. Dwight 60' wide

E	3.6	266.2
ctr	10.5	259.3
W	22.7	247.1

16+82 = S.L. Dwight

W	21.0	248.8
ctr	8.5	261.3
E.	3.6	266.2

17+25

E	4.1	265.7
ctr	8.2	261.6
W	18.1	251.7

17+50

W	13.7	251.1
ctr	9.0	260.8
E	4.9	264.9

17+75

E	6.1	263.7
ctr	10.1	259.7
W	19.4	250.4

18+0

W	20.5	249.0
ctr	12.2	257.6
E	7.7	262.1

18+25

E.	10.1	259.7
ctr	14.3	255.5
W	23.2	246.6
T. P.	0.32 257.36	12.71 257.09

257.36

18+50

W	14.3	243.1
ctr	6.2	251.2
E	0.8	256.6

18+75

E	3.7	253.7
ctr	10.0	247.4
W	18.2	239.2

19+0

W	21.8	236.1
ctr	15.2	242.2
E	5.8	251.6

19+25

E	10.4	247.0
ctr	18.8	238.6
W	25.8	231.6

257.36

19+50

W	23.2	234.2
ctr	12.3	245.1
E	5.2	252.2

19+75

E	1.9	255.5
ctr	7.1	250.3
W	16.4	241.0
T. P.	8.77	265.83	0.30	257.06

20+0

W	21.8	244.0
ctr	12.1	253.7
E	8.1	257.7

20+25

E	5.9	259.9
ctr	9.9	255.9
W	18.1	247.7

	265.83		
	20+50		
W		16.5	249.3
ctr		8.7	257.1
E.		4.6	261.2
	20+75		
E		3.7	262.1
ctr		7.8	258.0
W		15.5	250.3
	21+0		
W		13.8	252.0
ctr		6.9	258.9
E		3.3	262.5
	21+25		
E		3.1	262.7
ctr		6.8	259.0
W		13.7	252.1

21+63 = Mt. Myrtle on W. side R/a. 80' wide

W	265.83	16.5	249.3
ctr		8.0	257.8
E		3.5	262.0
	22+03 = center		
E		7.7	258.1
ctr		14.8	251.0
W		26.1	239.7
	S.L. 22+43 = Myrtle on W. side R/a. St.		
W		38.6	227.2
ctr		28.3	237.5
E		12.9	252.9
T.P.	0.22	253.29	12.76	253.07
	22+83 = Mt. Myrtle on E. side R/a. 60' wide		
E		22.3	231.0
ctr		28.2	225.1
W		30.2	223.1

253.29

23+43½ = S.L. Myrtle on E. Side 9/8.

W			8.9	244.4
ctr			2.5	250.8
E			9.4	248.9
T.P.	12.98	266.02	0.25	253.04
T.P.	5.17	268.81	2.33	263.69

23+75

E			9.7	259.1
ctr			10.5	258.3
W			15.3	253.5

24+0

W			14.7	254.1
ctr			9.5	259.3
E			6.3	262.5

24+25

E			5.0	263.8
ctr			9.2	259.6
W			14.3	254.5

24+50

W			15.3	253.5
ctr			9.2	259.6
E			4.5	264.3

24+75

E			4.2	264.6
ctr			9.3	259.5
W			16.4	252.4

25+0

W			17.2	251.6
ctr			9.6	259.2
E			4.1	264.7

25+25

E			4.1	264.7
ctr			10.0	258.8
W			18.6	250.2

25+41.2 = N.L. U.P.R.R. St

W	268.81	18.9	249.9
Ctr		10.5	258.3
E		4.0	264.8

POSTED

Levels on Oregon St Univ To Park Line 3/21/09 Dunkle Shaw Lambert

Oregon 65' wide

B.M. N.E. Brass Plg con. Mon. Univ Oregon 338.85

B.M.	4.19	343.04		338.85
	S.L. Univ			
W			3.7	339.3
ctr	POSTED		3.0	340.0
E			1.5	341.5
	0+25's of Univ			
E			3.1	339.9
ctr			3.8	339.2
W			3.8	339.2
	0+50			
W			5.8	337.2
ctr			5.6	337.4
E			4.7	338.3
	0+75			
E			7.1	335.9
ctr.			7.9	335.1
W			8.7	334.3
	1+0			
W		343.04	13.7	329.3
ctr			13.2	329.8
E			10.3	332.7
	1+25			
E			8.5	334.5
ctr			9.7	333.3
W			13.3	329.7 POSTED
	1+50			
W			9.9	333.1
ctr			7.0	336.0
E			4.7	338.3
	1+75			
E			3.9	339.1
ctr			5.4	337.6
W			7.2	335.8

343.04

2+0

W	6.1	336.9
ctr	4.8	338.2
E	3.0	340.0

2+25

E	2.8	340.2
ctr	4.1	338.9
W	5.9	337.1

2+49.8 = N. L. Wightman 60'

W	5.3	337.7
ctr	2.9	340.1
E	2.2	340.8

T. P.	7.31	346.00	4.35	338.69

center

E	4.9	341.1
ctr	5.9	340.1
W	7.3	338.7

346.00

S. L. Wightman

W	6.4	339.6
ctr	5.2	340.8
E	4.3	341.7

0+25's of Wightman

E	4.1	341.9
ctr	4.9	341.1
W	5.6	340.4

0+50

W	5.1	340.9
ctr	4.4	341.6
E	3.7	342.3

0+75

E	3.5	342.5
ctr	4.1	341.9
W	5.2	340.8

346.00

1+0

W	5.0	341.0
Ctr	4.2	341.8
E	3.3	342.7

1+25

E	3.4	342.6
Ctr	4.0	342.0
W	4.8	341.2

1+50

W	4.9	341.1
Ctr	4.3	341.7
E	3.2	342.8

1+75

E	3.5	342.5
Ctr	3.7	342.3
W	4.9	341.1

2+0

W	4.9	341.1
Ctr	4.3	341.7
E	3.6	342.4

2+25

E	3.6	342.4
Ctr	4.1	341.9
W	5.0	341.0

2+50

W	5.2	340.8
Ctr	4.3	341.7
E	3.8	342.2

2+75

E	3.6	342.4
Ctr	4.2	341.8
W	5.3	340.7

346.00

3+00

W	5.0	341.0
Ctr	4.3	341.7
E	3.8	342.2

3+25

E	3.9	342.1
Ctr	5.1	340.9
W	5.6	340.4

3+50

W	5.9	340.1
Ctr	4.9	341.1
E	4.3	341.7

3+75

E	4.2	341.8
Ctr	5.4	340.6
W	6.3	339.7

4+00

W	6.4	339.6
Ctr	5.2	340.8
E	4.4	341.6

4+25

E	4.3	341.7
Ctr	5.5	340.5
W	6.8	339.2

4+50

W	6.8	339.2
Ctr	5.6	340.4
E	4.6	341.4

4+75

E	4.7	341.3
Ctr	5.6	340.4
W	7.0	339.0

346.00

	5+0			
W			7.2	338.8
ctr			6.0	340.0
E			5.1	340.9
	5+25			
E			4.8	341.2
ctr			5.8	340.2
W			7.5	338.5
	5+50			
W			7.5	338.5
ctr			6.6	339.4
E			4.7	341.3
	5+75			
E			4.9	341.1
ctr			5.8	340.2
W			7.2	338.8

5+99 = N.L. Landis 57 60'

W			7.0	339.0
ctr			5.6	340.4
E			4.9	341.1
T.P.	4.25	343.25	7.0	339.00
	C. on Jet			
E			1.9	341.4
ctr			3.2	340.1
W			4.7	338.6
	S.L. Landis			
W			4.3	339.0
ctr			3.1	340.2
E			2.1	341.2
	0+25 S. of Landis			
E			2.8	340.5
ctr			3.9	339.4
W			4.9	338.4

343.2

0+50

W	5.9	337.4
Ctr	4.1	339.2
E	3.2	340.1

0+75

E	3.9	339.4
Ctr	4.9	338.4
W	7.0	336.3

1+0

W	7.8	335.5
Ctr	5.7	337.6
E	4.6	338.7

1+25

E	5.4	337.9
Ctr	6.0	337.3
W	8.8	334.5

1+50

W	343.2 8.7	334.6
Ctr	6.9	336.4
E	4.3	339.0

1+75

E	5.2	338.1
Ctr	7.2	336.1
W	10.0	333.3

POSTED

2+0

W	10.0	333.3
Ctr	6.7	336.6
E	5.7	337.6

2+25

E	5.2	338.1
Ctr	8.2	335.1
W	10.5	332.8

	343.25		
	2+50		
W		9.8	333.5
Ctr		8.6	334.7
E		5.5	337.8
	2+75		
E		6.9	336.4
Ctr		8.2	335.1
W		11.1	332.2
	3+0		
W		10.3	333.0
Ctr		9.3	334.0
E		7.2	336.1
	3+25		
E		8.4	334.9
Ctr		9.8	333.5
W		11.6	331.7
	3+50		
W		12.0	331.3
Ctr		9.7	333.6
E		8.9	334.4
	3+75		
E		9.5	333.8
Ctr		10.3	333.0
W		12.2	331.1
	4+0		
W		11.9	331.4
Ctr		10.3	333.0
E		9.7	333.6
	4+25		
E		10.2	333.1
Ctr		9.9	333.4
W.		12.7	330.6
T.P.	2.29	333.81	11.73 331.52

333.81

4+50

W	3.3	330.5
Ctr	1.1	332.7
E	0.4	333.4

4+75

E	1.5	332.3
Ctr	2.3	331.5
W	3.9	329.9

5+0

W	4.5	329.3
Ctr	2.7	331.1
E	2.7	331.1

5+25

E	3.6	330.2
Ctr	2.8	331.0
W	4.4	329.4

5+50

W	6.1	327.7
Ctr	5.1	328.7
E	3.7	330.1

5+75

E	3.9	329.9
Ctr	5.7	328.1
W	6.4	327.4

5+99.6 = N.L. Dwight St 60'

W	7.50	326.3
Ctr	5.80	328.0
E	5.5	328.3

Center

E	5.8	328.0
Ctr	7.8	326.0
W	8.1	325.7

333.81

S.L. Dwight St

W	10.6	323.2
Ctr	8.7	325.1
E	8.1	325.7

0+25 S of Dwight

E	9.8	324.0
Ctr	10.6	323.2
W	12.1	321.7

0+50

W	14.4	319.4
Ctr	12.4	321.4
E	11.0	322.8

0+75

E	12.1	321.7
Ctr	14.7	319.1
W	18.2	315.6

1+0

W	18.9	314.9
Ctr	15.1	318.7
E	13.9	319.9

1+25

E	12.3	321.5
Ctr	14.0	319.8
W	15.7	318.1

1+50

W	14.7	319.1
Ctr	12.7	321.1
E	10.2	323.6

1+75

E	10.4	323.4
Ctr	11.4	322.4
W	12.6	321.2

333.81

2+0

W	12.2	321.6
ctr	11.0	322.8
E	9.6	324.2

2+25

E	8.6	325.2
ctr	8.8	325.0
W	11.9	321.9

2+50

W	10.9	322.9
ctr	9.5	324.3
E	8.5	325.3

2+75

E	7.1	326.7
ctr	8.9	324.9
W	10.7	323.1

3+0

W	9.7	324.1
ctr	8.0	325.8
E	7.1	326.7

3+25

E	6.3	327.5
ctr	7.5	326.3
W	8.7	325.1

3+50

W	7.8	326.0
ctr	7.1	326.7
E	6.0	327.8

3+75

E	6.1	3277
ctr	6.9	326.9
W	8.3	325.5

T.P. 6.68 332.21 8.28 325.53

332.21

4+00

W	6.3	325.9
Ctr	5.6	326.6
E	3.7	328.5

4+25

E	5.1	327.1
Ctr	5.9	326.3
W	7.2	325.0

4+50

W	7.5	324.7
Ctr	5.5	326.7
E	4.7	327.5

4+75

E	5.8	326.4
Ctr	6.1	326.1
W	7.2	325.0

5+00

W	7.3	324.9
Ctr	6.3	325.9
E	6.4	326.0

5+25

E	5.9	326.3
Ctr	6.3	325.9
W	8.1	324.1

5+50

W	7.6	324.6
Ctr	6.3	325.9
E	4.9	327.3

5+75

E	5.5	326.7
Ctr	6.9	325.3
W	7.4	324.8

POSTED

332.21

5+98 = N. L. Myrtle 60'

W	6.9	325.3
Ctr	5.4	326.8
E	5.6	326.6

Center

E	5.7	326.5
Ctr	5.8	326.4
W	6.9	325.3

S. L. Myrtle

W	6.1	326.1
Ctr	6.0	326.2
E	4.8	327.4

0+25 S. of Myrtle

E	4.0	328.2
Ctr	5.9	326.3
W	5.9	326.3

0+50

W	5.8	326.4
Ctr	5.4	326.8
E	5.3	326.9

0+75

E	4.8	327.4
Ctr	5.3	326.9
W	5.3	326.9

1+0

W	5.4	326.8
Ctr	5.2	327.0
E	5.1	327.1

1+25

E	4.7	327.5
Ctr	4.9	327.3
W	5.6	326.6

332.21

1+50

W	6.0	326.2
ctr	4.9	327.3
E	4.9	327.3

1+75

E	5.4	326.8
ctr	5.2	327.0
W	6.3	325.9

2+0

W	6.6	325.6
ctr	6.2	326.0
E	5.1	327.1

2+25

E	6.2	326.0
ctr	5.1	327.1
W	7.0	325.2

2+50

W	7.7	324.5
ctr	6.7	325.5
E	6.0	326.2

2+75

E	6.5	325.7
ctr	6.7	325.5
W	6.8	325.4

3+0

W	7.9	324.3
ctr	7.7	324.5
E	7.0	325.2

3+25

E	6.6	325.6
ctr	7.9	324.3
W	8.8	323.4

332.21

3+59 on E. side & 3+58 on W = Park Line

W	9.1	323.1
Ctr	7.7	324.5
E	7.1	325.1

Levels Wightman St Texas To Oregon 4/10/of Dimick
Wightman 60' wide Shaw
B.M. R.R. Spk N.E. Texas Univ 312.98 Degil

	+R	H.I	−R	
B.M	2.85	315.83		312.98

E. L. Texas.

N	6.6	309.2	
ctr	7.8	308.0	
S POSTED	9.1	306.7	

0+25 E. of Texas

	9.3	306.5	
ctr	8.1	307.7	
N	6.9	308.9	

0+50

N	7.5	308.3	
ctr	8.8	307.0	
S	10.0	305.8	

0+75

S	11.1	304.7	
ctr	9.8	306.0	
N	8.6	307.2	

1+0

N			10.0	305.8
ctr			11.4	304.4
S			13.2	302.6

1+25

S			15.9	299.9
ctr			14.0	301.8
N			11.9	303.9
T.P	0.49	303.81	12.51	303.32

1+50

N	3.7	300.1	
ctr	5.8	298.0	
S	7.2	296.6	

1+75

S	10.0	293.8	
ctr	8.6	295.2	
N	6.7	297.1	

303-81

		2+0		
N			9.2	294.6
ctr			11.3	292.5
S			13.0	290.8
		2+25		
S			14.7	289.1
ctr			13.6	290.2
N			11.7	292.1
T.P	5.23	296.09	12.95	290.86
		2+50.3 = W.L. Arizona 83 wide		
N			5.9	290.2
ctr			7.7	288.4
S			11.5	284.6

Note see Page 63

296.09

E.L. ARIZONA

S		5.9	290.2
ctr		5.5	290.6
N		4.4	291.7

0+25 E of ARIZONA

N		3.7	292.4
ctr		3.9	292.2
S		4.4	291.7

0+50

S		3.1	293.0
ctr		2.6	293.5
N		2.9	293.2
TP	6.45 301.46	1.08	295.01

0+75

N		6.8	294.7
ctr		6.8	294.7
S		7.3	294.2

301.46

1+0

S		6.6	294.9
ctr		5.7	295.8
N		5.9	295.6

1+25

N		5.2	296.3
ctr		5.6	295.9
S		5.9	295.6

1+50

S		5.4	296.1
ctr		5.0	296.5
N		4.5	297.0

1+75

N		4.1	297.4
ctr		4.7	296.8
S		5.3	296.2

301.46

2+0

S	5.3	296.2
ctr	4.7	296.8
N	4.1	297.4

2+25

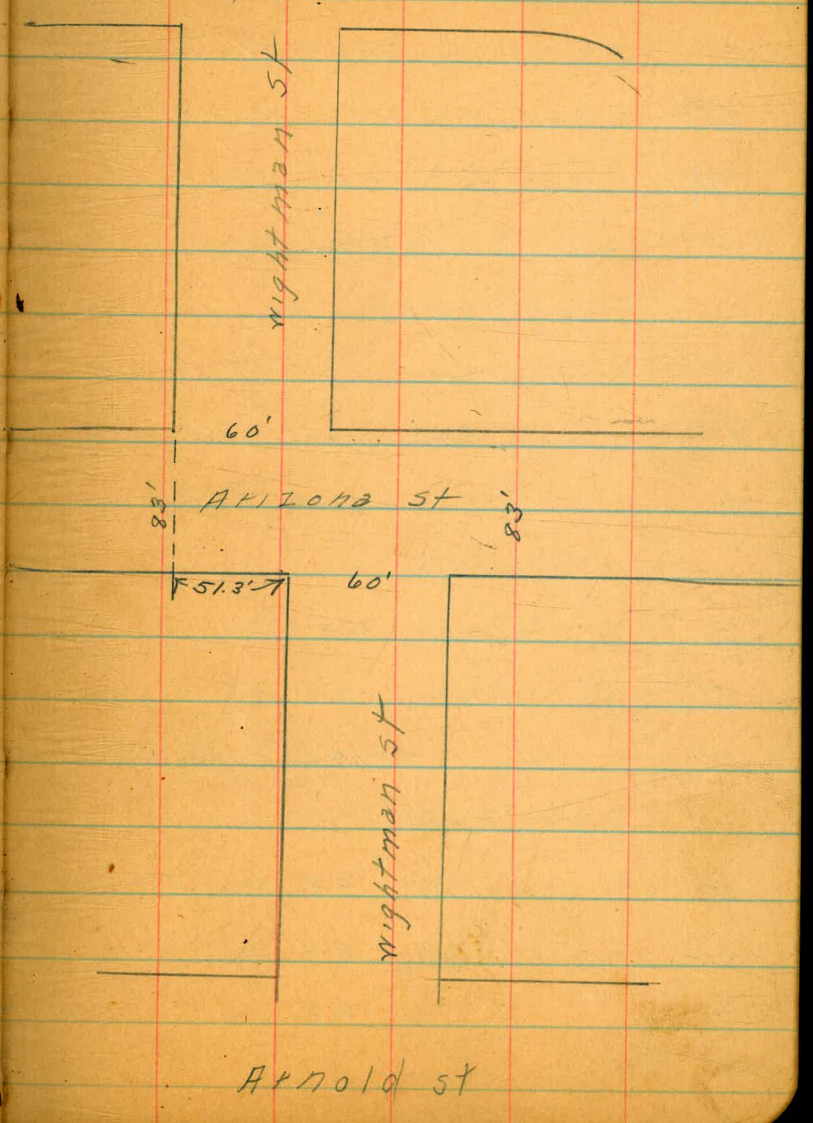
N	3.9	297.6
ctr	4.7	296.8
S	5.2	296.3

2+50

S	5.3	296.2
ctr	4.6	296.9
N	4.2	297.3

2+64.9 = W. L. Arnold & 5' wide.

N	4.12	297.4
ctr	4.2	297.3
S	4.9	296.6



301.46

E.L. Arnold.

S		1.6	299.9
ctr		1.1	300.4
N		1.0	300.5
T.P.	12.10	312.56	1.00	300.46

0+25 E of Arnold

N		10.9	301.7
ctr		11.2	301.4
S		11.6	301.0

0+50

S		10.9	301.7
ctr		10.7	301.9
N		10.6	302.0

0+75

N		9.9	302.7
ctr		9.9	302.7
S		9.9	302.7

1+0

S	312.56	8.9	303.7
ctr		8.7	303.9
N		8.8	303.8

1+25

N	7.2	305.4
ctr	7.3	305.3
S	7.5	305.1

POSTED

1+50

S	5.6	307.0
ctr	5.6	307.0
N	5.8	306.8

1+75

N	4.2	308.4
ctr	3.9	308.7
S	3.9	308.7

312.56

2+0

S			1.8	310.8
ctr			1.7	310.9
N			2.5	310.1
T.P.	11.31	323.52	0.35	312.21

2+25

N			11.8	311.7
ctr			11.5	312.0
S			11.1	312.4

2+64.9 = N.L. Walker St 65' wide

S			7.4	316.1
ctr			7.8	315.7
N			9.8	313.7

E.L. Walker St

N			6.3	317.2
ctr			3.2	320.3
S			0.6	322.9
T.P.	12.17	335.25	0.49	323.08

335.25

0+25' E of Walker St

64

S			10.1	325.2
ctr			11.9	323.4
N			15.3	320.0

0+50

N			12.1	323.2
ctr			9.8	325.5
S			7.2	328.1

0+75

S			5.2	330.1
ctr			7.6	327.7
N			9.2	326.1

1+0

N			6.7	328.6
ctr			4.9	330.4
S			3.2	332.1

335.25

		1+25		
S			1.7	333.6
ctr			3.3	332.0
N			5.2	330.1
		1+50		
N			3.3	332.0
ctr			1.6	333.7
S			0.1	335.2
T.P.	8.37	343.21	0.41	334.84
		1+75		
S			6.4	336.8
ctr			8.0	335.2
N			9.5	333.7
		2+0		
N			8.3	334.9
ctr			6.4	336.8
S			5.9	337.3

2+25		
S	4.2	339.0
ctr	5.3	337.9
N	7.3	335.9
2+65 = W.L. Oregon St 65' wide		
N	5.5	337.7
ctr	4.4	338.8
S	3.5	339.7

Levels Landis & Arnold To Oregon 4/1/09 Dunkle Shaw Diegel

B.M.	11.32	305.56 ~~294.24~~	294.24
	E.L. Arnold 0+		
S		10.1	295.5
Ctr		10.1	295.5
N		8.6	297.0
	0+25 E of Arnold		
N		7.7	297.9
Ctr	POSTED	9.2	296.4
S		8.5	297.1
	0+50		
S		7.7	297.9
Ctr		7.8	297.8
N		6.9	298.7
	0+75		
N		6.6	299.0
Ctr		6.8	298.8
S		7.1	298.5
	1+0		
S		6.0	299.6
Ctr		5.9	299.7
N		5.6	300.0
	1+25		
N		4.4	301.2
Ctr		4.1	301.5
S		4.3	301.3
	1+50		
S		2.7	302.9
Ctr		2.7	302.9
N		2.9	302.7
	1+75		
N		1.1	304.5
Ctr		1.3	304.3
S		1.2	304.4
T.P.	12.20	317.48	0.28 305.28
~~12.20~~			

317.48

2+0

S		11.5	306.0
ctr		11.5	306.0
N		11.4	306.1

2+25

N		8.6	308.9
ctr		9.0	308.5
S		9.2	308.3

2+69 = W.L. Walker 5+65'.

S		4.8	312.7
ctr		4.1	313.4
N		3.4	314.1
T.P.	11.93	329.24	0.17	317.31

E.L. Walker

N		8.6	320.6
ctr		9.9	319.3
S		9.9	319.3

0+25E of Walker

S	329.24	7.5	321.7
ctr		8.0	321.2
N		7.6	321.6

0+50

N		4.7	324.5
ctr		5.4	323.8
S		5.5	323.7

0+75

S		3.3	325.9
ctr		3.6	325.6
N		3.2	326.0

1+0

N		0.7	328.5
ctr		0.5	328.7
S		1.7	327.5
T.P.	11.92	341.15	0.01	329.23

341.15

1+25

S	11.0	330.2
ctr	11.5	329.7
N	11.1	330.1

1+50

N	8.8	332.4
ctr	8.5	332.7
S	9.0	332.2

1+75

S	6.9	334.3
ctr	7.2	334.0
N	6.8	334.4

2+0

N	5.9	335.3
ctr	5.6	335.6
S	5.1	336.1

2+25

S	3.9	337.3
ctr	4.1	337.1
N	3.1	338.1

2+65 = W. L. Oregon 65'

N	1.9	339.3
ctr	2.4	338.8
S	2.0	339.2
	1.94	N. W. hole

Levels. Dwight st Texas To Oregon 4/2/09 Dunkle
" 60' wide Shaw
B.M. Hub S.E. Cor Texas & Dwight 295.19 Dezill

B.M	1.82	297.01		295.19
	E.L. Texas			
S			1.8	295.2
ctr			1.7	295.3
N			1.6	295.4
	0+25' E. of Texas			
N			3.5	293.5
ctr			3.7	293.3
S			3.6	293.4
		0+50		
S			5.8	291.2
ctr			5.8	291.2
N			5.3	291.7
		0+75		
N			7.8	289.2
ctr			8.2	288.8
S			8.3	288.7

POSTED

		1+0		
S		297.01	9.4	287.6
ctr			9.7	287.3
N			9.2	287.8
		1+25		
N			10.7	286.3
ctr			10.9	286.1
S			10.9	286.1
		1+50		
S			12.3	284.7
ctr			12.4	284.7
N			11.0	286.0
		1+75		
N			13.0	284.0
ctr			12.9	284.1
S			12.4	284.6
T.P.	7.54	291.67	12.88	284.13

POSTED

291.67

2+0

S	8.9	282.8
Ctr	8.7	283.0
N	8.2	283.5

2+25

N	8.6	283.1
Ctr	8.9	282.8
S	9.2	282.5

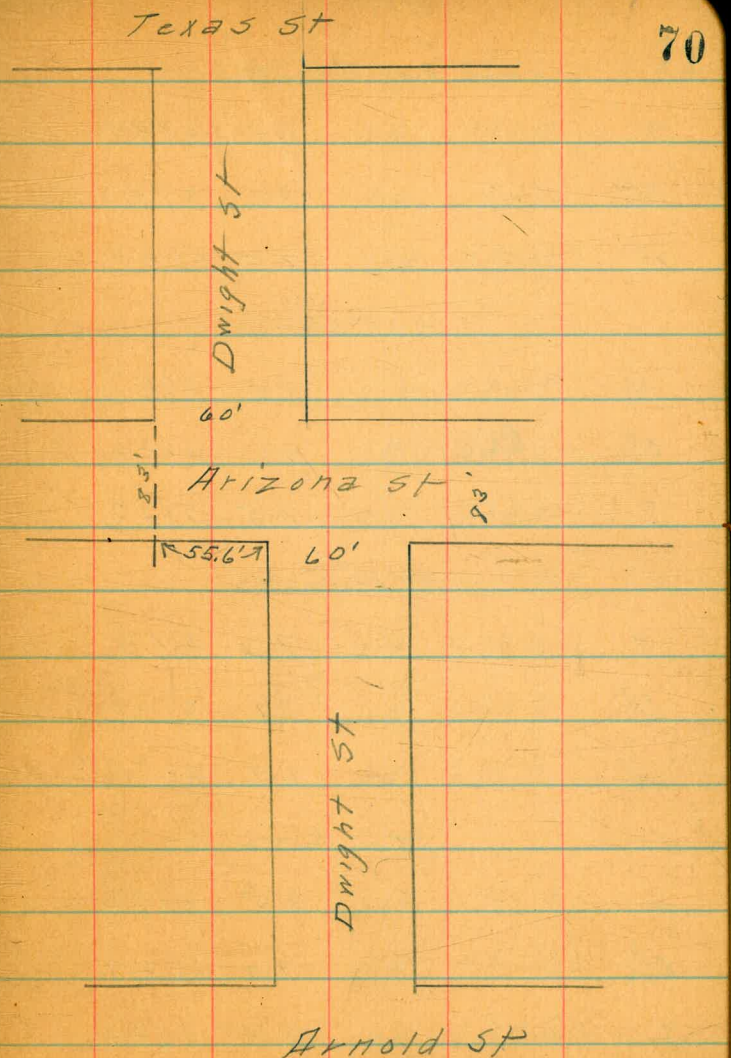
2+52 = W.L. Arizona St 83' wide

S	9.6	282.1
Ctr	8.9	282.8
N	8.8	282.9

Note- see plot opp. page

E.L. Arizona

N	7.7	284.0
Ctr	7.8	283.9
S.	8.8	282.9



29167

0+25' E. of Arizona

S	7.8	283.9
Ctr	7.6	284.1
N	7.5	284.2

0+50

N	7.0	284.7
Ctr	7.1	284.6
S	7.5	284.2

0+75

S	7.0	284.7
Ctr	7.1	284.6
N	6.7	285.0

1+0

N	6.5	285.2
Ctr	7.0	284.7
S	7.5	284.2

1+25

S	7.9	283.8
Ctr	7.0	284.7
N	6.4	285.3

1+50

N	6.2	285.5
Ctr	6.9	284.8
S	7.5	284.2

1+75

S	7.4	284.3
Ctr	6.8	284.9
N	6.1	285.6

2+0

N	6.8	285.7
Ctr	6.5	285.2
S	7.1	824.6

POSTED

291.67

2+25

S	6.1	285.6
Ctr	6.2	285.5
N	5.8	285.9

2+64 = W.L. Arnold St 65' wide

N	5.2	286.5
Ctr	5.6	286.1
S	6.3	285.4

E.L. Arnold.

S	5.0	286.7
Ctr	4.7	287.0
N	9.23	287.5

0+25' E. of Arnold

N	3.8	287.9
Ctr	3.6	288.1
S	3.7	288.0

0+50

S	3.6	288.1
Ctr	3.0	288.7
N	2.6	289.1

T.P.	11.81	301.83	1.65	290.02

0+75

N	12.7	289.1
Ctr	12.7	289.1
S	13.4	288.4

1+0

S	11.8	290.0
Ctr	12.3	289.5
N	11.7	290.1

1+25

N	10.7	291.1
Ctr	11.4	290.4
S	11.7	290.1

301.83

1+50

S	10.7	291.1
Ctr	10.4	291.4
N	9.7	292.1

1+75

N	9.1	2927
Ctr	9.5	2923
S	10.4	291.4

2+0

S	9.1	292.7
Ctr	8.6	293.2
N	8.5	293.3

2+25

N	6.4	295.4
Ctr	8.0	293.8
S	6.5	295.3

2+64 ± - W.L. Walker & 65' wide

S	5.7	296.1
Ctr	5.2	296.6
N	4.0	297.8

E.L. Walker

N	0.7	301.1
Ctr	1.4	3004
S	1.1	3007
T.P	12.63 313.75	0.71 301.12

0+25' E of Walker

S	11.5	302.3
Ctr	10.9	302.9
N	9.2	304.6

0+50

N	6.2	307.6
Ctr	7.4	306.4
S	8.1	305.7

313.75

0+75

S		313.75	5.4	308.4
Ctr			9.5	309.3
N			2.5	311.3
T.P	12.80	326.21	0.34	313.41

1+00

N			12.2	314.0
Ctr			14.0	312.2
S			14.6	311.6

POSTED

1+25

S			11.9	314.3
Ctr			11.1	315.1
N			9.9	315.3

1+50

N			7.2	319.0
Ctr			8.3	317.9
S			9.5	316.7

326.21

1+75

S			7.5	318.7
Ctr			6.2	320.0
N			5.4	320.8

2+00

N			3.6	322.6
Ctr			4.1	322.1
S			5.8	320.4

2+25

S			4.6	321.6
Ctr			2.3	323.9
N			2.1	324.1
T.P	6.78	331.15	1.89	324.37

2+65 = W. L. Oregon

N			4.7	326.5
Ctr			5.4	325.8
S			7.9	323.3

Levels on Myrtle St.-Texas To Oregon 4/9/09 Dunkle Shaw Dezirk

B.M. hub E.L. Texas & Park line 281.47

B.M.	.11.66	293 .13		281.47
	E.L. Texas St			
S			6.6	286.5
ctr			6.3	286.8
N			6.5	286.6
	0+25 E. of Texas			
N			4.8	288.3
ctr			4.8	288.3
S			5.4	287.7
	0+50			
S			5.4	287.7
ctr			4.7	288.4
N			3.9	289.2
	0+75			
N			3.7	289.4
ctr			4.5	288.6
S			5.2	287.9

POSTED

	1+0			
S			6.1	287.0
ctr			5.1	288.0
N			4.1	289.0
	1+25			
N			5.7	287.4
ctr			6.3	286.8
S			7.0	286.1
	1+50			
S			9.2	283.9
ctr			7.6	285.5
N			7.0	286.1
	1+75			
N			9.5	283.6
ctr			10.4	282.7
S			11.3	281.8

POST

293.13

2+0

S		13.0	280.1
Ctr		12.5	280.8
N		11.8	281.5
T.P.	2.34	283.15	12.32	280.81

2+25

N		3.7	279.5
Ctr		4.0	279.2
S		5.1	278.1

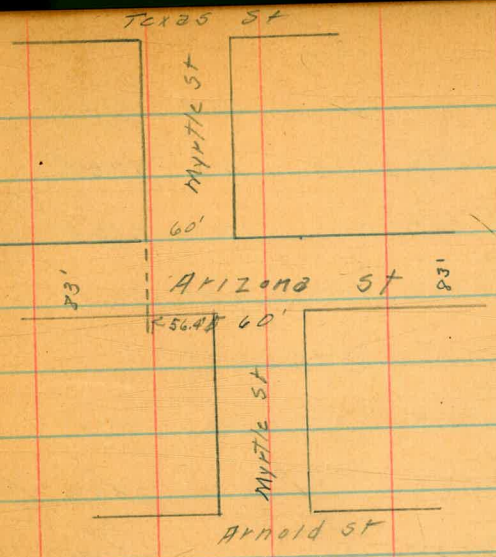
2+52.8 = W.L. Arizona 83' wide

S		7.4	275.8
Ctr		6.7	276.5
N		6.1	277.1

Note - see plot opp. Page

E.L. Arizona

N		9.5	273.7
Ctr		9.7	273.5
S		10.3	272.9



0+25 E of Arizona

S		11.6	271.6
Ctr		10.5	272.7
N		9.9	273.3

0+50

N		11.3	271.9
Ctr		11.1	272.1
S		12.0	271.2

0+75

S		12.0	271.2
Ctr		12.1	271.1
N		10.5	272.7

		283.15			
T. P.		1+0			
N			10.1	273.1	
ctr			11.2	272.0	
S			13.7	269.5	+
T. P.	11.71	284.58	10.28	272.87	hub S.E. Cor Arizz Myrtle
		1+25			
S			11.6	273.0	
ctr			11.0	273.6	
N			10.6	274.0	
		1+50			
N			9.5	275.1	
ctr			9.7	274.9	
S			10.1	274.5	
		1+75			
S			8.8	275.8	
ctr			8.6	276.0	
N			8.4	276.2	

		2+0		
N			7.7	276.9
ctr			7.7	276.9
S			7.9	276.7
		2+25		
S			7.4	277.2
ctr			7.1	277.5
N			6.8	277.8
		2+64 = W.L. Arnold St 65'		
N			6.1	278.5
ctr			6.0	278.6
S			6.1	278.5
		E.L. Arnold		
S			5.4	279.2
ctr			4.7	279.9
N			4.5	280.1
		0+25 E. of Arnold		
N			3.8	280.8
ctr			4.2	280.4
S			5.8	279.4

284.58

0+50

S		4.4	280.2
ctr		3.3	281.3
N		3.0	281.6

0+75

N		11.8	282.8
ctr		2.4	282.2
S		3.4	281.2
T.P	12.45	296.89	0.14	284.44

1+0

S		15.4	281.5
ctr		13.8	283.1
N		12.7	284.2

1+25

N		11.2	285.7
ctr		12.9	284.0
S		14.8	282.1

1+50

S		13.1	283.8
ctr		11.7	285.2
N		9.5	287.4

1+75

N		7.1	289.8
ctr		9.8	287.1
S		11.5	285.4

2+0

S		8.8	288.1
ctr		5.8	291.1
N		4.6	292.3

2+25

N		2.0	294.9
ctr		3.0	293.9
S		4.2	292.7
T.P	12.28	308.66	0.51	296.38

308.66

2+64.7 = W. L. Walker

S		9.2	299.5
Ctr		7.8	299.9
N		8.5	300.2
T. P.	11.81	319.95	0.52	308.14

E. L. Walker

N		10.3	309.7
Ctr		10.0	310.0
S		10.2	309.8

0+25 E. of Walker

S		6.7	313.3
Ctr		6.6	313.4
N		6.9	313.1

0+50

N		3.3	316.7
Ctr		3.5	316.5
S		3.4	316.6
T. P.	11.88	330.73	1.10	318.85

330.73

0+75

S		11.9	328.8
Ctr		11.8	328.9
N		11.8	328.9

1+0

N		9.2	321.5
Ctr		9.2	321.5
S		9.5	321.2

1+25

S		7.1	323.6
Ctr		7.4	223.3
N		7.5	323.2

1+50

N		6.2	324.5
Ctr		6.3	224.4
S		6.7	324.0

330.73

1+75

S	5.4	325.3
Ctr	5.6	325.1
N	6.3	324.4

2+0

N	5.9	324.8
Ctr	4.6	326.1
S	4.8	325.9

2+25

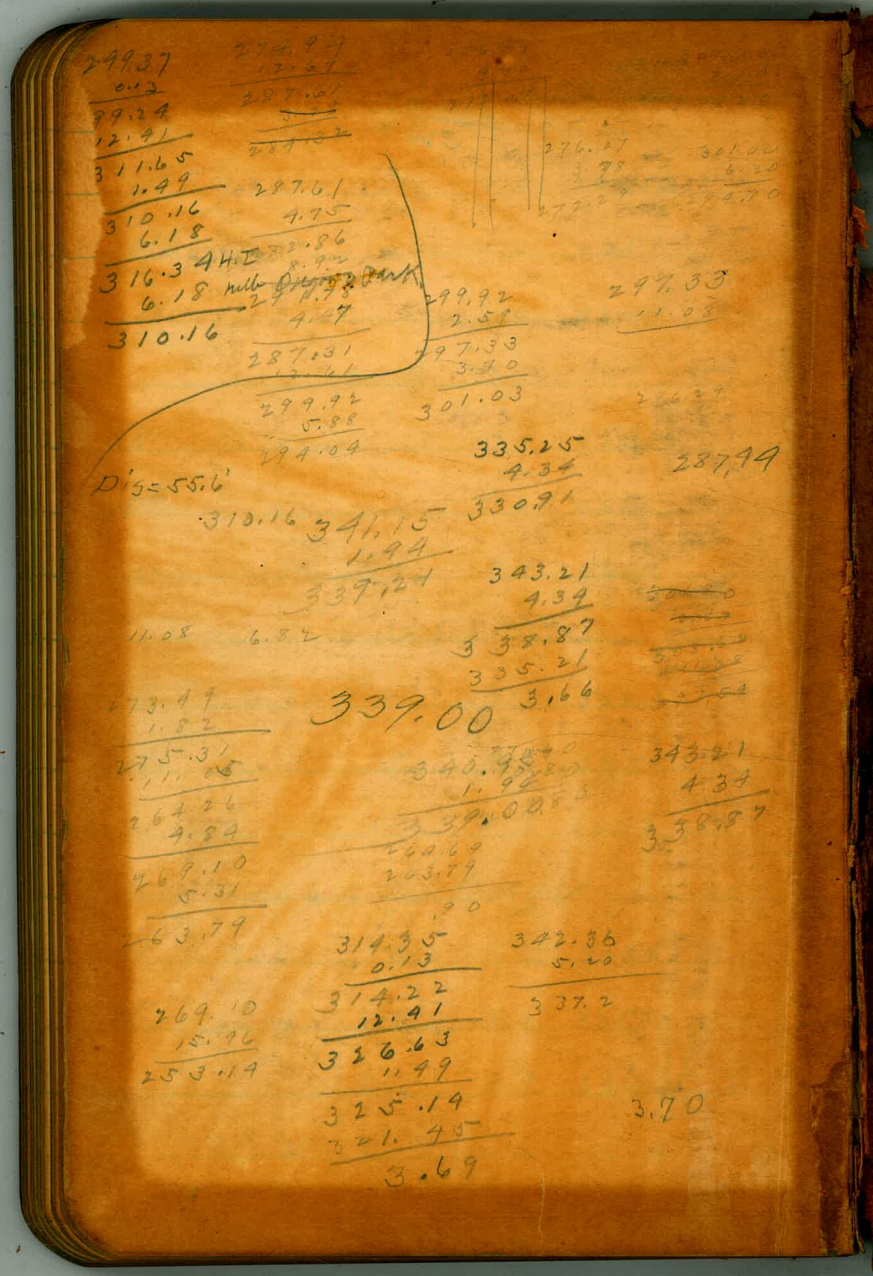
S	3.9	326.8
Ctr	4.8	325.9
N	5.3	325.6

2+66 = W.L. Oregon 65' wide

N	5.3	325.6
Ctr	5.2	325.5
S	4.4	326.3

338.85
330.21
3.64

330.73
5.44
325.29



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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.		