Grading of E½ of Eighteenth Street, between N. line of "A" and So. line of Park. Page 2 to 6

Gross Section of Fourteenth Street: From No. side of "D" to So. line of Park. From No. line of "F" to So. line of "D". and from So. side of "F" to No. line of "L" St's. Page 8 to 52 - 54 to 80. - 84 to 152

Roadway:
Pacific Beach to
La Jolla.
Page 82.

F.B. 115

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

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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
0		0		0		0	
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

115
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Date.

MICROFILMED

Louis Mendelson

2 Grading of E½ of "18th" street
bet'n North line of A + So. line of Park

April 5th 1901 –

d'Hennecourt
Williams
Kenniston

	B.S.	F.I.	I.H.	Elev.
	9.96		93.43	83.47

B.M. S.W. Cor. of 18th + "A" Streets

North line of "A"

W line Prop.		3.05	90.38
Curb.		4.00	89.43
13		5.45	87.98
Center		6.36	87.07
13		5.93	87.50
Curb		6.50	86.93
E. line		6.50	86.93

25' No. of No. line of A.

E. line		4.27	89.16
Curb		4.83	88.60
13		3.65	89.78
2		5.35	88.08
Center		5.65	87.78
8		4.90	88.53
3		3.13	90.30
13 line		3.25	90.18

Cent.		2.45	93.43	90.98
W. line		1.64		91.79
T.P.	6.18	1.25	9836	92.18
	50' No. of No. line of A.			
W. line		4.10		94.26
Curb		5.61		92.75
13		6.12		92.24
3		6.20		92.16
6		9.50		88.86
Center		9.90		88.46
12		9.55		88.81
13' line		7.25		91.11
Curb		8.00		90.36
E. line		8.15		90.21
	75' No. of No. line of 'A'			
E line		8.05		90.31
Curb		6.90		91.46

			98.36		
7		6.50		91.86	
7		9.00		89.36	
Center		8.91		89.45	
6		4.35		94.01	
7		4.30		94.06	
Curb		3.85		94.51	
W. line		2.23		96.13	
	Park line				
W. line		0.00		98.36	
Curb		1.20		97.16	
13		2.40		9596	
8 ~~15~~		2.95		95.41	
Center		7.97		90.39	
13		9.00		89.36	
10		9.05		89.31	
Curb		7.30		91.06	
E. line		7.90		90.46	

Fourteenth Street
Estimate of Cost of Grading

	B.S.	F.S.	I.H.	Elev.
	2.53	~~2.53~~	62.79	60.26
T.P.	4.14	5.46	61.47	57.33
		3.73		57.74
	No. side of "D"			
W. line		3.63		57.84
Cent		3.87		57.60
13'		3.83		57.64
Center		4.05		57.42
13'		3.75		57.72
Cent		3.87		57.60
E. line		3.60		57.87
	25' No. of	"D"		
E. line		2.85		58.62
Cent		4.20		57.27
13'		4.12		57.35
Center		3.87		57.60
13'		3.76		57.71
Cent		3.63		57.84
W. line		2.72		58.75

Joint Resolution No. 1900.
April 6th 1901.

d'Hemecourt
Williams
Kennedy

9

B.M. N.W. Cor. of 13th + E.

Establish B.M. N.E. Cor. of D. and 14th. in fence post (spike)

	50' No. of "B"		61.47		
W. line		2.33		59.14	
Curb		3.50		57.97	
13'		3.71		57.76	
Center		3.75		58.72	
13'		3.84		57.63	
Curb		3.93		57.54	
E. line		2.80		58.67	
	75' No. of "D"				
E. line		1.97		59.50	
Curb		3.37		58.10	
13'		3.47		58.00	
Center		3.37		58.10	
13'		3.33		58.14	
Curb		3.47		58.00	
W. line		2.05		59.42	
	100' No. of D,				
W. line		2.40		59.07	
Curb		3.10		58.37	

			61.47	
13'		3.06		58.41
Center		3.12		58.35
13'		2.87		58.60
Curb		2.13		59.34
E. line		1.50		59.97
T.P.	11.24	1.13	71.58 ✓	60.34 ✓
	125' No. of "D"			
E. line		9.25		62.33
Curb		10.55		61.03
13'		11.35		60.23
Center		12.00		59.58
13'		12.70		58.88
Curb		12.50		59.08
W. line		12.20		59.38
	150' No. of "D"			
W. line		10.70		60.88
Curb		11.17		60.41
13'		11.37		60.21
Center		10.41		61.17

			71.38	
13'		9.38		62.20
Curb		8.32		63.26
E. line		6.17		65.41
	175'	No. of	"D"	
E. line		4.18		67.40
Curb		6.00		65.58
13'		7.84		63.74
Center		8.97		62.61
13'		10.22		61.36
Curb		10.00		61.58
W. line		10.00		61.58
	200'	No. of	"D"	
W. line		9.63		61.95
Curb		9.20		62.38
13'		8.57		63.01
Center		7.57		64.01
13'		6.00		65.58
Curb		4.57		67.01
E. line		2.83		68.75

			71.58	
	225' No. of 'D'			
E. line		0.73		70.85
Curb		3.43		68.15
13'		4.45		67.13
Center		5.97		65.61
13'		7.77		63.81
Curb		8.85		62.73
W. line		9.10		62.48
	250' No. of 'D'			
W. line		7.97		63.61
Curb		7.87		63.71
13'		6.90		64.68
Center		4.57		67.01
9'		1.13		70.45
4'		1.00		70.58
Curb		1.00		70.58
	275' No. of 'D'			
13'		4.83		66.75
Curb		6.20		65.38

			71.58	
W. line		6.5		65.08
T.P.	11.75	0.13	83.20 ✓	71.45 ✓
	200' No. of D.			
E. line		9.45		73.75
	275' No. of 'D'			
Center		10.75		72.45
13'		10.65		72.55
Cent		9.90		73.30
E. line		6.90		76.30
	So. line of "6"			
E. line		4.53		78.67
Cent		8.25		74.95
13'		8.45		74.75
Center		8.35		74.85
13'		8.35		74.85
Cent		~~9.50~~ 8.85		73.70
W. line		10.70		72.50

		No. line of "6"		83.20	
W. line			7.5		75.70
Curb			6.7		76.50
13			6.18		77.02
Center			6.18		77.02
		25' No. of "6"			
Center			3.78		79.42
13			3.85		79.35
10			3.50		79.70
Curb			5.18		78.02
W. line			7.87		75.33
		50' No. of "6"			
W. line			5.33		77.87
Curb			2.90		80.30
6'			0.15		83.05
7'			0.40		82.80
		75' No. of "6"			
Curb			0.30		82.90

			83.20	
W. line		2.80		80.40
T. P.	11.72	0.16	94.76 ✓	83.04 ✓
		No. line of "6"		
Center (line)		11.55		83.21
13'		10.30		84.41
Cent		8.53		86.23
E. line		7.85		86.91
		25' No. of "6"		
E. line		5.65		89.11
Cent		6.25		88.51
13'		8.15		86.61
8'		10.55		84.21
		50' No. of "6"		
Center		10.72		84.04
13'		6.65		88.11
Cent		4.16		90.60
E. line		3.10		91.66

		75' No. of "G"			
E line		0.35		94.41	
Curb		1.75		93.01	
13'		4.18		90.58	
Center		7.55		87.21	
13'		8.10		86.66	
4'		8.00		86.76	
		100' No. of "G"			
W. line		10.22		84.54	
Curb		8.32		86.44	
13'		4.80		89.96	
Center		4.64		90.12	
13'		1.78		92.98	
T.P.	8.36	0.77	102.35 ✓	93.99 ✓	
Curb		7.46		94.89	
E line		6.28		96.07	

	125' No. of "6"		
W. line		12.95	89.40
Curb		13.00	89.35
13'		9.50	92.85
Center		9.50	92.85
13'		6.70	95.65
Curb		5.12	97.23
E line		3.93	98.42
	150' No. of "6"		
E line		1.53	100.82
Curb		2.56	99.79
13'		3.84	98.51
Center		5.41	96.94
13'		5.50	96.85
10		5.50	96.85
Curb		9.74	92.61
W. line		11.22	91.11
	175' No. of 6.		
W. line		8.28	94.07

			102.35	
Curb		6.83		95.52
13		3.84		98.51
Center		3.95		98.40
13'		1.85		100.50
		200' from C.		
Center		2.75		99.60
13'		1.85		100.50
Curb		4.12		98.23
W. line		5.70		96.65
T.P.	10.22	0.32	112.25 ✓	102.03 ✓
		175' ~~225'~~ from C.		
~~W. line~~ Curb		10.33		101.92
E. line		9.37		102.88
		200 ft. from No. line of C.		
E. line		7.67		104.58
Curb		8.67		103.58
13		9.67		102.58

225 ft. No. of No. line of "C"
112.25

E. line	6.18	106.07
Cent	7.18	105.07
13'	8.30	103.95
Center	10.30	101.95
13'	10.35	101.90
Cent	12.00	100.25
W. line	13.10	99.15

250 ft. No. of 6

W. line	10.85	101.40
Cent	10.10	102.15
13'	8.80	103.45
Center	7.50	104.75
13'	6.04	106.21
Cent	5.61	106.64
E. line	4.85'	107.40

275' ft. No. of No. line of 6.

E. line	2.73	109.52
Cent	3.73	108.52

			112.25		
13'		4.50		107.75	
Center		6.15		106.10	
13'		7.06		105.19	
Cent		7.93		104.32	
W. line		9.03		103.22	
	So. line of B.				
W. line		7.40		104.85	
Cent		5.87		106.38	
13'		5.14		107.11	
Center		4.20		107.95	
13'		2.57		109.68	
Cent		2.00		110.25	
E. line		1.25		111.00	
	Cent line So. side of B.				
W. line		6.80		105.45	
Cent		5.63		106.62	
13		4.23		108.02	
Center		3.11		109.14	
13		1.95		110.30	

			112.25	
Cent		1.35		110.90
E. line		0.25		112.00
T.P.	7.20	0.24	119.21 ✓	112.01 ✓
	Center line of B. St,			
E. line		4.60		114.61
Cent		6.00		113.21
13'		7.22		111.99
Center		9.02		110.19
13'		10.00		109.21
Cent		11.47		107.74
W. line		12.60		106.61
	Cent line No. side of B.			
W. line		9.95		109.26
Cent		9.26		109.95
13'		8.10		111.11
Center		7.43		111.78
13'		5.62		113.59
Cent.		3.98		115.23
E. line		2.67		116.54

		No. line of B. at 119.21		
E. 80' line		1.20		117.91
Cent " "		3.25		115.96
E. 60' "		3.95		115.26
Cent 60' "		5.45		113.76
10'		6.50		112.71
Center 60' at.		7.10		112.11
10'		7.47		111.74
Cent		8.55		110.66
W. line		8.85		110.36
		25' No. of No. line of B.		
W. line		6.80		112.41
Cent		6.50		112.71
10'		5.47		113.74
Center.		5.42		113.79
10'		3.90		115.31
Cent		3.43		115.78
E. line		1.67		117.54

		50' No. of No. line of B.		
			119.21	
E. line		0.00		119.21
Cent		1.30		117.91
10'		1.78		117.43
Center		3.84		115.37
10'		3.67		115.54
Cent		5.02		114.19
W. line		5.09		114.12
T.P.	10.85	1.43	128.63 ✓	117.78 ✓
		75' No. of B.		
W. line		12.90		115.73
Cent		13.00		115.63
10'		11.10		117.48
Center		11.10		117.53
10'		9.00		119.63
Cent		8.53		120.10
E. line		7.40		121.23
		100' No. of B.		
E. line		4.90		123.73
Cent		6.35		121.28

			128.63		
10'		6.90		121.73	
Center		9.07		119.56	
10'		9.32		119.31	
Cent		10.63		118.00	
W. line		10.98		117.65	
	125' No. of B.				
W. line		8.60		120.03	
Cent		8.15		120.48	
10'		7.43		121.20	
Center		7.22		121.41	
10'		5.55		123.08	
Cent		4.86		123.77	
E. line		3.40		125.23	
	150' No. of B.				
E. line		1.63		127.00	
Cent		3.20		125.43	
10'		3.45		125.18	
Center		5.50		123.13	
10'		5.77		122.86	

			128.63	
Cent.		6.50		122.13
W. line		6.90		121.73
		175' No. of B.		
W. line		5.05		123.58
Cent		4.77		123.86
10'		3.80		124.83
Center		3.34		125.29
10'		1.85		126.78
Cent.		0.85		127.78
E. line		0.25		128.38
T.P.	10.96	0.44	139.15 ✓	128.19 ✓
		200' No. of B.		
E. line		9.00		130.15
Curb		9.25		129.90
10'		10.47		128.68
Center		11.65		127.50
10'		12.30		126.85
Curb		12.80		126.35
W. line		13.10		126.05

	225' No. of B.			
			139.15	
W. line		10.70		128.45
Curb		10.12		129.03
10'		9.50		129.65
Center		9.45		129.70
10'		9.16		129.99
Cent.		7.85		131.30
E. line		7.55		131.60
	250' No. of B.			
E. line		5.23		133.92
Cent		6.25		132.90
10'		6.60		132.55
Center		7.22		131.93
10'		7.87		131.28
Cent		7.85		131.30
W. line		8.26		130.79
	275' No. of B.			
E. line		6.47		132.73
Cent		5.87		133.28

			139.15		
10'		5.75		133.40	
Center		4.75		134.40	
10'		4.45		134.70	
Curb		4.45		134.70	
E. line		3.94		135.21	
	So. line of "a"				
E. line		2.10		137.05	
Curb		2.15		137.00	
10'		2.58		136.60	
Center		2.75		136.40	
10'		3.44		135.71	
Curb		4.30		134.85	
W. line		4.95		134.20	
	Curb line So. side of a.				
W. line		4.40		134.75	
Curb		4.08		135.07	
10'		3.06		136.15	
Center		2.40		136.75	
10'		2.00		137.15	

			139.15	
Cent.		1.90		137.25
E. line		1.47		137.68
T.P.	7.68	1.12	145.71 ✓	138.03 ✓ X
	Center of a. St.			
E. line		5.75		140.04
Cent		6.45		139.26
10'		6.55		139.16
Center		7.57		138.14
10'		7.97		137.74
Cent.		9.47		136.56
W. line		9.60		136.11
	Cent line No. side of a			
W. line		7.90		137.81
20' ↓		6.70		139.01
30' ↓		6.27		139.44
	No. side of a.			
W. line		6.70		139.01
20'		5.70		140.01
30'		5.32		140.39

		25' No. of No. line of "a"	145.71	
W. line		5.03		140.68
20'		4.15		141.56
30'		3.35		142.36
		50' No. of "a".		
W. line		3.81		141.90
20'		2.45		143.26
30'		1.27		144.44
		75' No. of "a"		
W. line		2.74		142.97
20'		1.08		144.68
30'		0.16		145.55
	T.P. 5.68	1.24	150.15	144.47
		100' No. of a.		
W. line		6.12		144.39
20'		4.78		145.73
30'		3.73		146.78

So. line of Park
150.15

W. line	5.77		144.74
20'	4.34		146.17
30'	3.22		147.29

Fourteenth St. from D to F. — 5/10/1901.

d'Hemecourt
Williams
Kennistor

				51.51
	3.67		55.18	
	North line of F.			
W. line		5.27		49.91
Curb		5.60		49.58
13'		5.23		49.95
Center		5.57		49.61
13		5.67		49.51
Curb		6.27		48.91
E. line		6.55		48.63
	25' No. of F.			
E. line		6.40		48.78
Curb		6.05		49.13
13'		4.85		50.33
Center		4.77		50.41
13'		4.95		50.23
Curb		4.80		50.38
W. line		4.97		50.21

B.M. Nozle of Hyd. S.W. cor. F and 14th St,

		50' No. of F.		
			55.18	
W. line		4.17		51.01
Curb		4.30		50.88
13'		4.45		50.73
Center		4.00		51.18
13'		3.46		51.72
Curb		4.25		50.93
E. line		6.55		48.63
		75' No. of F.		
E. line		6.40		48.78
Curb		5.75		49.43
13'		5.20		49.98
Center		4.45		50.73
13'		4.43		50.75
Curb		4.22		50.96
W. line		3.27		51.91
		100' No. of F.		
W line		3.38		51.80
Curb		3.97		51.21

			55.18		
13'		4.45		50.73	
Center		4.36		50.82	
13'		4.77		50.41	
Curb		5.35		49.83	
E. line		6.05		49.13	
		125' No. of F.			
E. line		7.20		47.98	
Curb		5.83		49.35	
13'		5.25		49.93	
Center		5.02		50.16	
13'		4.46		50.72	
Curb		3.80		51.38	
W. line		8.00		52.18	
		150' No. of F.			
W. line		3.10		52.08	
Curb		3.67		51.51	
13'		4.00		51.18	
Center		4.42		50.76	
13'		4.94		50.24	

			55.18		
Curb		6.18		49.00	
E. line		7.82		47.36	
		175' No. of F.			
E. line		7.10		48.08	
Curb		6.18		49.00	
13'		5.00		50.18	
Center		3.80		51.38	
13'		3.04		52.14	
Curb		2.45		52.73	
W. line		2.20		52.88	
		200' No. of F.			
W. line		1.51		53.67	
Curb		1.94		53.24	
13'		2.91		52.27	
Center		3.57		51.61	
13'		4.81		50.37	
Curb		6.45		48.73	
E. line		6.82		48.36	

		225' No. of Fe		
			55.18	
E. line		7.43		47.75
Curb		6.60		48.58
13'		4.74		50.44
Center		3.28		51.90
13'		2.57		52.61
Curb		1.74		52.44
W. line		1.22		53.96
		250' No. of Fe.		
W. line		0.43		54.75
Curb		1.22		53.96
13'		2.35		52.83
Center		2.57		52.61
13'		4.73		50.45
Curb		7.10		48.08
E. line		7.95		47.23
		275' No. of Fe.		
E. line		7.50		47.68

			55.18	
Cent		7.00		48.18
13'		4.80		50.38
Center		2.46		52.72
13'		2.13		53.05
Cent		1.27		53.91
W. line		0.50		54.68
	So. line of E.			
W. line		0.50		54.68
Cent	}	1.40		53.78
13'		2.25		52.93
Center		3.25		51.93
13'		4.20		50.98
Cent		4.82		50.86
E. line		6.05		49.13
	Cent line So side of E.			
W. line		5.30		49.88
Cent		4.50		50.68
13'		3.57		51.61
Center		2.83		52.35

13'		2.10		53.08
Cent		2.27		52.91
W. line		3.55		51.63
	Center of E. Street.			
W. line		3.63		51.55
Cent.		2.50		52.68
13'		2.43		52.75
Center		2.95		52.23
13'		3.45		51.73
Cent		4.05		51.13
E. line		4.96		50.22
	Cent line No. side of E.			
E. line		4.83		50.35
Cent		4.57		50.61
13'		4.35		50.83
Center		3.50		51.68
13'		2.70		52.48
Cent		2.55		52.63
W. line		3.70		51.48

		No. line of E. Street.		
W. line		2.62	55.18	52.56
Curb		2.63		52.55
1.3'		2.77		52.41
Center		3.53		51.65
13'		4.23		50.95
~~E. Curb~~ ~~E. line~~		4.73		50.45
E. line		7.20		47.98
T. P.	5.27	3.67	56.78	51.51
		26' No. of E.		
E. line		9.15		47.63
~~Curb~~ 5'		8.55		48.23
Curb		7.40		49.38
5+2'		5.20		51.58
1/4		5.60		51.18
Center		5.05		51.73
1/4		5.13		51.65
Curb		5.30		51.48
W. line		5.78		51.50

50' No. of E. 56.78

W. line	5.80	50.98
Curb	5.17	51.61
1/4	5.46	51.32
Center	5.55	51.23
1/4	5.78	51.00
12' fr. 7' line	5.88	50.90
Curb	8.20	48.58
E. line	9.00	47.78

75' No. of E.

E. line	8.85	47.93
Curb	7.20	49.58
12' fr. 7' line	5.40	51.38
1/4	5.60	51.18
Center	5.80	50.98
1/4	5.10	51.68
Curb	5.22	51.56
W. line	5.45	51.33

		100' ft. No. of 56.78 E.		
W. line		6.00		50.78
Curb		4.85		51.93
1/4		5.05		51.73
Center		5.15		51.63
1/4		5.45		51.33
Curb		5.85		50.93
5' v		8.00		48.78
E. line		7.63		49.15
		125' No. of E.		
E. line		7.27		49.51
9' v		7.25		49.53
Curb		4.90		51.88
1/4		4.95		51.83
Center		4.90		51.88
1/4		4.55		52.23
Curb		4.50		52.28
7' line		7.50		49.28
W. line		7.90		48.88

		150' No. of E.		
W. line		7.90		48.88
Curb		7.60		49.18
4'		3.80		52.98
1/4 v		3.56		53.22
Center		4.25		52.53
1/4		3.97		52.81
Curb		5.00		51.78
9' from prop.		6.90		49.88
E. line		7.45		49.33
		175' No. of E.		
E. line		6.45		50.33
9' fr. prop. line		5.75		51.03
Curb		3.55		53.23
1/4		3.83		52.95
Center		3.85		52.93
1/4		3.70		53.08
Curb		4.75		52.03
W. line		6.10		50.68

		200' No. of E. 5678		
W. line		1.20		55.48
curb		0.65		56.13
1/4		2.65		54.13
Center		2.15		54.63
1/4		2.93		53.85
curb		2.60		54.18
9' fm. prop.		5.15		51.63
E. line		5.20		51.58
		2.26' No. of E.		
E. line		4.45		52.33
9' fm. prop. line		4.10		52.68
curb		1.50		55.28
1/4		1.95		54.83
Center		0.63		56.15
1/4		0.75		56.03
T.P.	4.74	0.87	60.65	55.91
curb		3.87		56.78
W. line		3.40		57.25

		250' No. of E,	60.65	
W. line		3.30		57.25
Curb		3.45		57.20
1/4		4.25		56.40
Center		4.90		55.75
1/4		5.10		55.55
Curb		5.25		55.40
9' fr. prop.		7.55		53.10
E. line		7.87		52.78
		275' No. of E,		
E. line		7.45		53.20
9' fr. prop.		7.25		53.40
Curb		6.85		54.30
1/4		5.02		55.63
Center		4.20		56.35
1/4		3.75		56.90
Curb		3.05		57.60
W. line		2.93		57.72

So. side of D 60.65

W line	3.45		57.20
Curb	4.05		56.60
1/4	4.40		56.25
Center	4.50		56.15
1/4	4.65		56.00
Curb	4.20		56.35
E. line	4.40		56.25
	4.16		56.49

Roadway Pacific Beach to La Jolla

May 21/1901 — d'Hemecourt, Williams, Kenniston

Commencing at west end of graded road between lots Nos. 3 + 4 of Eureka Lemon Grove, "0" being in middle of right-of-way, on line with West line of said lots Nos. 3 + 4 -

Theme Westward, producing center line of said right-of-way

0+63.6	center of track, La Jolla R.R.
△4+00	Right.
△27+47	Right to center of track La Jolla R.R.
28+94.4	to stake on So. line center of 17th,
△34+04	to Intersection of Center of Alabama and center of 17th.

14th, from F. to L. × Section
May 25/1901. d'H.
Williams
Kenniston.

B.M.	4.50		56.01	51.51
	South Side of F.			
East line		7.85		48.16
Curb		8.42		47.59
1/4		7.85		48.16
Center		7.00		49.01
1/4		7.00		49.01
Curb		6.50		49.51
W. line		5.65		50.36
	25 ft. So. of F.			
W. line		3.31		52.70
Curb		4.25		51.76
1/4		5.15		50.86
Center		5.93		50.08
1/4		6.33		49.68
Curb		6.57		49.44
E. line		7.06		48.95
	50 ft. So. of F.			
E. line		6.00		50.01

Hyd. Nozzle S.W. Cor. 14th + F.

Curb.		5.42	56.01	50.59
1/4		4.53		51.48
Center		3.55		52.46
1/4		2.83		53.18
Curb		2.22		53.79
W. line		1.65		54.36
	75 ft. South of F.			
W. line		1.35		52.66
Curb		2.15		53.86
1/4		2.84		53.17
Center		3.43		52.58
1/4		4.43		51.58
Curb		5.27		50.74
E. line		5.65		50.36
	100 ft. South of F.			
E. line		5.95		50.06
Curb		5.52		50.49
1/4		4.95		51.06
Center		4.16		51.85

1/4		3.62	56.01	52.39
Cent		3.15		52.86
W. line ~~1/4~~		2.17		53.84
~~W. line~~		~~2.08~~		
	125 ft. So. of St.			
W. line		3.20		52.81
Cent		4.20		51.81
1/4		4.73		51.28
Center		5.42		50.59
1/4		5.84		50.17
Cent		5.95		50.06
E. line		6.30		49.71
	150 ft. So. of St.			
E. line		6.93		49.08
Cent		6.25		49.76
1/4		6.17		49.84
Center		5.55		50.46
1/4		4.65		51.36
Cent		4.20		51.81
W. line		4.10		51.91

175 ft. So. of F.			
W. line	4.67	56.01	51.34
Cent	5.23		50.78
1/4	5.68		50.33
Center	6.38		49.63
1/4	6.48		49.53
Cent	6.55		49.46
E. line	7.15		48.86
200 ft. So. of F.			
E. line	7.20		48.81
Cent	6.45		49.56
1/4	6.35		49.66
Center	5.95		50.06
1/4	6.05		49.96
Cent	5.77		50.24
W. line	5.16		50.85
225 ft. So. of F.			
W. line	5.66		50.35
Cent	5.63		50.38

1/4		5.80	56.01	50.21
Center		6.23		49.78
1/4		6.53		49.48
Curb		6.70		49.31
E. line		7.60		48.41
T.P.	5.67	7.65	54.03	48.36
	250 ft. South of T.			
E. line		6.15		47.88
Curb		5.47		48.56
1/4		5.17		48.86
Center		5.36		48.67
1/4		4.42		49.61
Curb		4.13		49.90
W. line		3.95		50.08
	275 ft. South of			
W. line		3.95		50.08
Curb		4.22		49.81
1/4		6.43		47.60
Center		6.67		47.36

1/4		5.20	54.03	48.83
Cent		5.74		48.29
E. line		6.22		47.81
	290 ft. So. of E.			
E. line		6.22		47.81
Cent		6.74		47.29
1/4		5.47		48.56
Center		7.45		46.58
1/4		7.95		46.08
Cent		4.50		49.53
W. line		4.15		49.88
	North line of Q.			
W. line		7.20		46.83
Cent		7.45		46.58
1/4		8.50		45.53
Center		8.30		45.73
1/4		8.05		45.98
Cent		8.37		45.66
E. line		8.56		45.47

		South line of G.		
E. line		10.43	54.08	43.60
Curb		9.47		44.56
1/4		8.70		45.33
Center		8.35		45.68
1/4		8.35		45.68
Curb		7.95		46.08
W. line		7.10		46.93
		25 ft. So. of G:		
W. line		3.05		50.98
Curb		5.08		48.95
1/4		5.75		48.28
Center		6.30		47.73
1/4		6.63		47.40
Curb		7.87		46.16
E. line		8.53		45.50
		50 ft. So. of G.		
E. line		6.93		47.10
Curb		6.04		47.99

1/4		4.10	54.03	49.93
Center		3.85		50.18
1/4		4.00		50.03
Curb		2.90		51.13
W. line		1.95		52.08
	75 ft. So. of Q.			
W. line		1.75		52.28
Curb		2.66		51.37
1/4		3.17		50.86
Center		3.10		50.93
1/4		3.35		50.68
Curb		5.27		48.76
E. line		6.45		47.58
	100 ft. So. of Q.			
E. line		5.53		48.50
Curb		4.35		49.68
1/4		3.65		50.38
Center		2.73		51.30
1/4		2.75		51.28

Curb		2.25	54.03	51.78
W. line		2.00		52.03
	125 ft. So. of G.			
W. line		2.50		51.53
Curb		2.68		51.35
1/4		3.33		50.70
Center		3.15		50.88
1/4		3.96		50.07
Curb		4.74		49.29
E. line		5.55		48.48
	150 ft. So. of G.			
E. line		5.78		48.25
Curb		4.85		49.18
1/4		4.35		49.68
C.		3.76		50.27
1/4		3.46		50.57
Curb		3.17		50.86
W. line		2.97		51.06

		175 ft. So. of Q.		
W. line		3.32	54.03	50.71
Curb		3.95		50.08
	1/4	4.05		49.98
C.		4.20		49.83
	1/4	4.43		49.60
Curb		5.25		48.78
E. line		6.05		47.98
		200 ft. So. of Q.		
E. line		5.80		48.23
Curb		5.60		48.43
	1/4	5.30		48.73
C.		4.57		49.46
	1/4	4.46		49.57
Curb		4.10		49.93
W. line		3.63		50.40
		225 ft. So. of Q.		
W. line		3.67		50.36
Curb		4.37		49.66

¼		4.84	54.03	49.19
C.		5.25		48.78
¼		5.35		48.68
Curb		5.55		48.48
E. line		6.17		47.86
	250 ft. So. of C.			
E. line		6.10		47.93
Curb		5.73		48.30
¼		5.45		48.58
C.		5.37		48.66
¼		4.77		49.26
Curb		4.47		49.56
W. line		3.74		50.29
	275 ft. So. of C.			
W. line		3.93		50.10
Curb		4.55		49.48
¼		5.48		48.58
C.		5.32		48.71
¼		5.53		48.50

Curb		6.13	54.03	47.90
E. line		6.85		47.18
	290 ft. So. of Q.			
E. line		7.10		46.93
Curb		6.95		47.08
1/4		5.95		48.08
C.		6.63		47.40
1/4		7.10		46.93
Curb		4.68		49.35
W. line		3.83		50.20
	North line of N.			
W. line		4.54		49.49
Curb		6.63		47.40
1/4		7.63		46.40
C.		7.86		46.17
1/4		8.13		45.90
Curb		8.63		45.40
E. line		8.72		45.31

			54.03		
T.P.	3.86	6.87	51.02	47.16	B.M. S.E. cor. 14th + H. on Plug. (Hyd.) 47.19
		South line of H.			
E. side		6.03		44.99	
Curb		5.73		45.29	
1/4		5.63		45.39	
C.		4.90		46.12	
1/4		4.77		46.25	
Curb		4.17		46.85	
W. side		3.85		47.17	
		25 ft. So. of H.			
W. side		4.05		46.97	
Curb		4.48		46.57	
1/4		4.65		46.37	
C.		4.25		46.77	
1/4		4.90		46.12	
Curb		5.25		45.77	
E. line		6.15		44.87	

		50 feet So. of N,		
E. line		5.65	51.02	45.37
Curb		5.95		45.07
1/4		5.62		45.40
C.		4.62		46.40
1/4		5.00		46.02
Curb		4.62		46.40
W. line		3.73		47.29
	1.83		49.02	47.19
		75 ft. So. of N.		
E. line		4.15		44.87
Curb		4.10		44.92
1/4		4.00		45.02
C.		3.71		45.31
1/4		3.33		45.69
Curb.		2.93		46.09
W. line		1.07		47.95
		100 ft. So. of N.		
W. line		1.75		47.27
Curb		3.43		45.59

B.M. S.E. cor. 14th. + St.

S. 1/4		3,80	49,02	45.22	
C.		4.25		44.77	
1/4		4.47		44.55	
Cent		4,83		44.19	
E. line		5.10		43.92	
	125 ft. South of H.				
E. line		5,53		43.49	
Cent		5.45		43.57	
1/4		5,16		43.86	
C.		4.70		44.32	
1/4		4,35		44.67	
Cent		4.05		44.97	
W. line		2,35		46.67	
	150 ft. So. of H.				
W. line		3.17		45.85	
Cent		4.60		44.42	
1/4		4.90		44.12	
C.		5.17		43.85	
1/4		5.56		43.46	
Cent		5.75		43.27	
E. line		6.75		43.27	

	175 ft. So. of H.		
E. line	5.77	49.02	43.25
Cent	6.05		42.97
1/4	6.05		42.97
C.	5.75		43.25
1/4	5.60		43.42
Cent	5.66		43.36
W. line	4.08		44.94
	200 feet So. of H.		
W. line	5.25		43.77
Cent	6.45		42.57
1/4	6.60		42.42
C.	6.60		42.42
1/4	6.73		42.29
Cent	6.63		42.39
E. line	6.35		42.67
	225 ft. So. of H.		
E. line	7.65		41.37
Cent	7.75		41.27
1/4	8.22		40.80
C.	8.25		40.77

1/4		8.31	49.02	40.71
Curb		8.33		40.69
W. line		7.22		41.80
	250 feet So. of H.			
W. line		9.22		39.80
Curb		9.93		39.09
1/4		10.35		38.67
C.		10.40		38.62
1/4		10.68		38.34
Curb		9.73		39.29
E. line		9.10		39.92
T.P.	1.77	10.62	40.17	38.40
	275 ft. So. of H.			
E. line		1.25		38.92
Curb		2.25		37.92
1/4		3.63		36.54
C.		3.82		36.35
1/4		3.40		36.77
~~W. line~~ Curb		3.35		36.82
W. line		2.05		38.12

		North line of "I"		
W. line		3.77	40.17	36.40
Curb		4.57		35.60
1/4		4.65		35.52
C.		4.90		35.27
1/4		5.27		34.90
Curb		4.85		35.32
E. line		5.05		35.12
T.P.	2.49	3.51	39.15	36.66
		South Side of I.		
E. line		8.20		30.95
Curb		6.95		32.20
1/4		5.95		33.20
C.		5.05		34.10
1/4		4.55		34.60
Curb		4.50		34.65
W. line		3.65		35.50
		25 ft. So. Side of I.		
W. line		3.35		35.80
Curb		4.21		34.94

1/4		4.63	39.15	34.52
C.		5.13		34.02
1/4		5.80		33.35
Curb		7.10		32.05
E. line		8.40		30.75
	50 ft. South of I.			
E. line		7.80		31.35
Curb.		6.55		32.60
1/4		5.95		33.20
C.		5.30		33.85
1/4		4.55		34.60
Curb.		4.05		35.10
W. line		3.02		36.13
	75 ft. So. of I.			
W. line		2.46		36.69
Curb		4.45		34.70
1/4		4.70		34.45
C.		5.35		33.80
1/4		6.66		32.49
Curb		7.60		31.55
C. line		8.65		30.50

	100 ft. So. of "I"		
E. line	8.80	39.15	30.35
Curb	8.25		30.90
1/4	6.80		32.35
C.	5.15		34.00
1/4	4.66		34.49
Curb	3.85		35.30
W. line	2.52		36.63
	125 ft. South of "I"		
W. line	2.00		37.15
Curb	3.30		35.85
1/4	4.57		34.58
C.	5.20		33.95
1/4	6.80		32.35
Curb	8.10		31.05
E. line	11.90		27.25
	150 ft. So. of I.		
W. line	1.20		37.95
Curb	2.40		36.75
1/4	4.65		34.50
C.	5.30		33.85

10'		6.10	39.15	33.05
1/4		6.90		32.25
Curb		13.20		25.95
	175 ft. So. of "D"			
1/4 E. side		14.40		24.75
C.		9.50		29.65
1/4		7.05		32.10
Curb		3.55		35.60
W. side		0.20		38.95
	200 ft. So. of "D"			
W. side		4.55		34.60
Curb		10.40		28.75
1/4		12.40		26.75
	225 ft. So. of "D"			
W. side		7.30		31.85
Curb				
T.P.	0.13	11.67	27.61	27.48
Curb		1.95		25.66
8'		3.73		23.88
1/4		6.05		21.56
C.		10.30		17.31

1/4		12.80	27.61	15.31	
Curb		12.50		15.11	
E. line		11.70		15.91	
		8.05		18.56	Bulk-head from W. range line 39 feet.
	200 feet from I. (South)				
E. line		11.70		15.91	
Curb		11.80		15.81	
1/4		11.00		16.61	
8 ft.		5.30		22.31	Edge of Bank
C.		4.35		23.26	
	175 ft. from I. (South)				
1/4					
5 ft.		4.9		22.71	Edge of Bank
Curb		10.4		17.21	
E. line		11.05		16.56	Stop Bulk-head here
	150 ft. So. of I.				
E. line		6.10		21.51	
	250 ft. So. of I.				
E. line		11.70		15.91	
Curb		12.20		15.31	
1/4		12.80		14.81	

Center		11.70	27.61	15.91
1/4		11.40		16.21
Cent		7.57		20.04
W. line		0.10		27.51
	275 ft. So. of D.			
W. line		2.64		24.97
~~Cent~~ 8'		5.60		22.01
Cent		10.25		17.36
1/4		12.60		15.01
C.		12.40		15.21
1/4		12.40		15.21
Cent		12.40		15.21
E. line		12.40		15.21
	290 ft. So. of D.			
E. line				
Cent				
1/4				
C.		12.00		15.61
1/4		11.80		15.81
~~Cent~~				
Cent		10.15		16.46

1'		6.75	27.61	20.86
Range line		4.52		23.09
W. line		3.74		23.87
	North side of "J"			
W. line		3.87		23.74
Curb		4.70		22.91
1/4		4.90		22.71
C.		5.10		22.51
4½ ft.		5.87		21.24
T.P.	0.23	6.39	21.45	21.22
	South line of "J"			
W. line		0.95		20.50
Curb.		1.95		19.50
1/4		1.95		19.50
C.		5.40		16.05
1/4		9.20		12.25
Curb		9.00		12.45
E. line		6.70		14.75

W. edge of Bridge

		25 ft. ~~No.~~ So. of "J."		
E. line		6.85	21.45	14.60
Curb		8.75		12.70
	1/4	9.55		11.90
	6'	7.35		14.10
	C.	5.00		16.45
	1/4	4.83		16.62
Curb		4.53		16.92
W. line		5.15		16.30
		50 ft. So. of "J"		
W. line		6.23		15.22
Curb		5.95		15.50
	1/4	5.57		15.88
	C.	6.33		15.12
	7'	8.00		13.45
	1/4	9.83		11.62
Curb		8.95		12.50
E. line		6.50		14.95
		75 ft. So. of J.		
E. line		7.30		14.15
Curb		9.32		12.13

¼		9.70	21.45	11.75
C.		7.95		13.50
¼		6.62		14.83
Curb		6.90		14.55
W. line		6.78		14.72
	100 ft. So. of "J"			
W. line		6.85		14.60
Curb		7.10		14.35
¼		7.83		13.62
C.		8.37		13.08
¼		9.85		11.60
Curb		10.20 ~~7.70~~		11.20
4'		8.50		12.95
E. line		7.80		13.65
	125 ft. So. of "J"			
E. line		8.72		12.73
10'		8.65		12.80
Curb		10.20		11.25
¼		10.15		11.30
C.		8.73		12.72
¼		8.15		13.30

Curb		5.65	21.45	15.80
W. line		4.18		17.27
	150 ft. So. of "J"			
W. line		2.75		18.70
Curb		4.30		17.15
1/4		6.60		14.85
C.		9.15		12.30
6'		9.70		11.75
"		10.55		10.90
1/4		10.50		10.95
Curb		10.10		11.35
E. line		9.15		12.30
	175 ft. So. of "J."			
E. line		9.38		12.07
Curb		10.15		11.30
1/4		10.66		10.79
6'		11.04		10.41
		9.05		12.40
C.		8.55		12.90
1/4		5.63		15.82
Curb		4.40		17.05

W. line		3.07	21.45	18.38
	200 ft. So. of J.			
W. line		4.00		17.45
Curb		5.37		16.08
1/4		7.12		14.33
b.		9.20		12.25
5'		8.95		12.50
		11.55		9.90
1/4		11.42		10.03
Curb		10.40		11.05
E. line		9.25		12.20
	225 ft. So. of J.			
E. line		9.20		12.25
Curb		10.65		10.80
1/4		12.20		9.25
5'		12.10		9.35
3'		9.80		11.65
b		9.60		11.85
1/4		9.30		12.15
Curb		5.57		15.88
W. line		4.37		17.08

250 ft. So. of "J"

W. line		5.10	21.45	16.35
Curb		7.75		13.70
	1/4	9.70		11.75
b.		10.20		11.25
	4' ^	10.64		10.81
	4' v	12.05		9.40
	1/4	12.20		9.25
Curb		10.70		10.75
E. line		9.40		12.05

275 ft. So. of "J"

E. line		8.66		12.79
Curb		10.65		10.80
	1/4	12.30		9.15
b,		9.93		11.52
	1/4	10.10		11.35
Curb		9.73		11.72
	4'	7.18		14.27
W. line		6.05		15.40

North line of K.

W. line		7.05		14.40

Cent.		7.20	21.45	14.25
10'		6.70		14.75
		11.30		10.15
1/4		11.10		10.35
6.		11.90		9.55
1/4		11.90		9.55
		6.50		14.95
Cent		6.77		14.68
E. line		7.34		14.11
T.P.	2.84	6.50	17.79	14.95
	So. side of K.			
W. line		3.70		14.09
Cent		3.60		14.19
10'		3.35		14.44
		7.50		10.29
1/4		7.70		10.09
6.		9.60		8.19
1/4		8.35		9.44
		4.33		13.46
Cent		4.90		12.89
E line		5.40		12.39

		25 ft. So. of K.		
E. line		7.55	17.79	10.24
Cent		7.85		9.94
	1/4	8.30		9.49
		9.40		8.39
6.		9.80		7.99
	7'	9.10		8.69
	2v	7.85		9.94
	1/4	7.65		10.14
Cent		5.80		11.99
W. line		4.00		13.79
		50 ft. So. of K.		
W. line		7.00		10.79
Cent		8.00		9.79
	1/4	8.00		9.79
6.		9.00		8.79
		10.20		7.59
	1/4	9.65		8.14
Cent		8.33		9.46
E. line		7.53		10.26
		75 ft. So. of K.		
W. line		7.70		10.09
Cent		8.42		9.37

1/4		10,00	17.79	7.79
C.		9.54		8.25
1/4		9,10		8.69
Curb		8.05		9.74
W. line		7.00		10.79
	100 ft. So. of K.			
W. line		7.17		10.62
Curb		7.78		10.01
1/4		9.25		8.54
C.		9.95		7.74
1/4		10.30		7.49
7'		8.45		9.34
Curb		8,25		9.54
E. line		7.95		9.84
	W. side of 14th.			
125' So. of K		7.25		10.54
150' " " K		7.80		9.99
175 " " "		8.05		9.74
200 " " "		7.60		10.19
225 " " "		6.85		10.94
250 " " "		7.90		9.89
275		9,10		8.69
No. of L		9.83		7.96

			17.79	
T. P.	4.73	8.65	13.87	9.14
		125 ft. So. of K.		
E. ride		4.42		9.45
Cent		4.95		8.92
1/4		6.35		7.52
L.		6.07		7.80
1/4		5.50		8.37
Cent		5.65		8.22
		150 ft. So. of K.		
W. Cent		5.15		8.72
1/4		5.95.		7.92
L.		6.40		7.47
1/4		6.25		7.62
Cent		5.40		8.47
E. line		4.40		9.47
		175 ft. So. of K.		
E. line		5.04		8.83
Cent		5.95		7.92
1/4		6.30		7.57
L.		7.30		6.57
1/4		6.10		7.77
Cent		6.00		7.87

		200 ft, So. of K.		
W Curb		5.00	13.87	8.87
1/4		6.35		7.52
C.		7.60		6.27
1/4		6.70		7.17
Curb		5.53		8.34
E. line		4.72		9.15
		225 ft, So. of K.		
E. line		4.48		8.39
Curb		5.54		8.33
1/4		7.00		6.87
C.		7.20		6.57
1/4		7.00		6.87
W. Curb		5.85		8.02
		250 ft, So. of K.		
W. Curb		7.10		6.77
1/4		8.20		5.67
C.		6.75		7.12
1/4		5.00		8.87
Curb		3.20		10.67
E. line		4.90		8.97

275 ft. So. of K.

E. line	5.30	13.87	8.57
Cent	5.20		8.67
1/4	5.05		8.82
C.	6.80		7.07
1/4	8.30		5.57
W. Cent	8.60		5.27

North line of L.

W. Cent	7.70		6.17
1/4	8.70		5.17
C.	7.00		6.87
1/4	5.37		8.50
Cent	5.43		8.44
E. line	5.65		8.22

128.76	128.76		B. M. =	119.26
118.60	118.75			9.50
10.16	10.01		I. H.	128.76
				1.61
128.76	128.76	128.76	T. P.	127.15
122.85	127.15	122.75		12.00
5.91	1.61	6.01	I. H.	139.15
128.76	139.15	139.15		
127.25	131.35	131.50		
1.51	7.80	7.65		
139.15	139.15			
135.60	135.75			
3.55	3.40			

107.08 104.9 2.18	107.08 103.5 3.58	107.08 103.60 3.48	
107.08 103.15 3.93	107.08 101.40 5.68	107.08 103.75 3.23	107.08 99.65 7.43
107.08 100.25 6.83	107.08 97.9 9.18	107.08 96.97 10.11	107.54 103.90 3.64
107.54 102.60 4.94	107.54 98.54 9.00	107.54 100.02 7.52	107.54 96.15 11.39
98.35 94.47 3.88	98.35 90.41 7.94	98.35 92.27 6.08	98.35 88.80 9.55
127.99 120.50 7.49	127.99 118.50 9.49	127.99 124.87 3.12	127.99 122.75 5.24
127.99 124.75 3.24	138.33 129. 9.33	138.33 127. 11.33	138.33 131.25 7.08
138.33 133.25 5.08	138.33 137.50 0.83		

BM 106.81
0.27
I.N. 107.08

B.M. 106.81
0.73
I.N. 107.54

+02.60
I.N. 107.54
11.39
T.P. 96.15
2.20
I.H. 98.35

98.35
86.35
12.00

B.M. = 107.37
10.57
I.H. 118.94
1.26
T.P. 117.68
8.25
I.H. 125.93
5.67
B.M. 13th = 119.26 V
8.73
I.H. 127.99
6.84
T.P. 127.15
1.18
I.H. 138.33

119.26 9.99 129.25 = H.I. 118.5 10.75	129.25 120.5 8.75	129.25 124.75 4.50	129.25 122.75 6.50
129.25 0.26 128.99 10.04 139.03 = H.I. 133.25 5.78	139.03 131.75 7.28	139.03 135.5 3.53	
139.03 137.5 1.53	139.03 136.9 2.13	139.03 136.5 2.53	139.03 132.25 6.78	13903 132.65 6.38
139.03 128.4 10.63	139.03 128 11.03	128.00 1.92 129.92 = H.I. 124.15 5.77	129.92 123.75 6.17
129.92 119.9 10.02	129.92 119.5 10.42		

90.40
84.10
6.30

90.40
81.22
9.18

83.16
78.35
4.81

83.16
81.62
1.54

83.16
75.47
7.69

83.16
73
10.16

B.M. = 89.87
.57
I.H. 90.44
9.17
T.P. 81.27
1.89
I.H. 83.16

B.M. 107.37
11.87
I.H. 119.24

119.24
107.87
11.37

119.24
110.75
8.49

119.24
118.50
0.74

119.24
113.62
5.64

119.24
116.50
2.74

119.24
109.87
.37

119.24
115.62
3.62

119.24
112.75
6.49

115

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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.		

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