IES FLOOD REPORT
PHOTOMETRIC FILENAME : CRL_SINGLE_LAMP.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 2016110404
[TESTLAB]
[TESTDATE] 2016-11-04
[ISSUEDATE] 6/17/2020
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] CRL_single_lamp
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[_ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] Indoor

CHARACTERISTICS

NEMA Type	7 H x 4 V
Maximum Candela	140.61
Maximum Candela Angle	-5H -5V
Horizontal Beam Angle (50%)	96.6
Vertical Beam Angle (50%)	23.3
Horizontal Field Angle (10%)	140.8
Vertical Field Angle (10%)	60.0
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	61
Beam Efficiency	N.A.
Field Lumens	114
Field Efficiency	N.A.
Spill Lumens	29
Luminaire Lumens	143
Total Efficiency	N.A.
Total Luminaire Watts	2
Ballast Factor	1.00

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AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	.06	90	6.58
87.5	1.09	87.5	6.62
85	1.64	85	6.66
82.5	2.07	82.5	6.69
80	2.74	80	6.72
77.5	3.81	77.5	6.76
75	5.23	75	6.79
72.5	7.42	72.5	6.82
70	10.27	70	6.86
67.5	17.82	67.5	6.89
65	29.06	65	6.93
62.5	40.03	62.5	6.96
60	48.95	60	6.99
57.5	55.75	57.5	7.47
55	58.04	55	7.94
52.5	56.93	52.5	8.42
50	57.79	50	8.89
47.5	59.3	47.5	9.37
45	61.29	45	9.75
42.5	65.36	42.5	9.85
40	69.97	40	9.86
37.5	75.55	37.5	9.87
35	81.42	35	9.88
32.5	86.72	32.5	9.89
30	91.35	30	9.9
27.5	94.96	27.5	11.39
25	98.37	25	12.88
22.5	100.97	22.5	14.36
20	103.57	20	15.85
17.5	105.58	17.5	20.05
15	108.26	15	24.92
12.5	110.67	12.5	31.86
10	113.15	10	39.47
7.5	115.5	7.5	53.11
5	117.65	5	69.42
2.5	119.37	2.5	93.78
0	120.83	0	120.83
-2.5	122.01	-2.5	132.12
-5	123.24	-5	140.26
-7.5	124.09	-7.5	138.92
-10	124.35	-10	134.42
-12.5	123.74	-12.5	118.12
-15	122.26	-15	100.21
-17.5	120.49	-17.5	77.51
-20	118.38	-20	53.22
-22.5	116.2	-22.5	44.47
-25	113.88	-25	35.74
-27.5	112.18	-27.5	26.99
-30	111.13	-30	18.25
-32.5	109.15	-32.5	16.77
-35	105.23	-35	15.29
-37.5	100.08	-37.5	13.8
-40	94.26	-40	12.32
-42.5	87.36	-42.5	10.83

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IES FLOOD REPORT
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AXIAL CANDELA - (Cont.)

DEG.	HOR.	DEG.	VERT.
-45	80.1	-45	9.61
-47.5	72.86	-47.5	9.18
-50	66.27	-50	9.01
-52.5	61.89	-52.5	8.84
-55	61.11	-55	8.67
-57.5	60.85	-57.5	8.5
-60	60	-60	8.32
-62.5	54.11	-62.5	8.21
-65	45.33	-65	8.09
-67.5	32.18	-67.5	7.97
-70	18.84	-70	7.85
-72.5	11.31	-72.5	7.74
-75	8.09	-75	7.62
-77.5	5.91	-77.5	7.5
-80	4.21	-80	7.38
-82.5	2.98	-82.5	7.27
-85	2.21	-85	7.15
-87.5	1.47	-87.5	7.03
-90	.06	-90	6.91

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CANDELA TABULATION
Maximum Candela = 140.61
Beam Edge = 70.305 Cd (50% of Max.)
Field Edge = 14.061 Cd (10% of Max.)
* Indicates Values Inside Field Edge

Vert. Angles	Horizontal Angles									
	-90.0	-87.5	-85.0	-82.5	-80.0	-77.5	-75.0	-72.5	-70.0	-67.5
90.0	0.43	0.77	1.07	0.95	0.93	0.94	1.05	1.27	1.65	2.35
87.5	0.41	0.83	1.12	1.01	1.02	1.05	1.16	1.38	1.75	2.44
85.0	0.39	0.89	1.16	1.08	1.12	1.16	1.28	1.48	1.86	2.54
82.5	0.37	0.95	1.21	1.15	1.20	1.28	1.39	1.59	1.96	2.64
80.0	0.35	1.01	1.25	1.22	1.30	1.39	1.50	1.70	2.07	2.74
77.5	0.33	1.07	1.30	1.28	1.39	1.50	1.61	1.81	2.17	2.84
75.0	0.32	1.14	1.35	1.35	1.48	1.61	1.73	1.92	2.28	2.94
72.5	0.30	1.19	1.39	1.41	1.57	1.73	1.84	2.02	2.38	3.03
70.0	0.28	1.26	1.44	1.48	1.66	1.84	1.95	2.14	2.48	3.13
67.5	0.26	1.31	1.48	1.55	1.76	1.95	2.06	2.24	2.59	3.22
65.0	0.24	1.38	1.53	1.62	1.85	2.06	2.18	2.35	2.69	3.32
62.5	0.22	1.44	1.57	1.68	1.94	2.18	2.29	2.46	2.80	3.42
60.0	0.20	1.50	1.62	1.75	2.03	2.29	2.40	2.57	2.90	3.52
57.5	0.18	1.48	1.65	1.81	2.09	2.36	2.52	2.73	3.09	3.66
55.0	0.17	1.47	1.67	1.87	2.15	2.43	2.64	2.90	3.27	3.80
52.5	0.15	1.46	1.70	1.94	2.21	2.50	2.76	3.06	3.45	3.95
50.0	0.13	1.45	1.72	2.00	2.26	2.57	2.88	3.22	3.63	4.10
47.5	0.12	1.43	1.75	2.06	2.32	2.63	3.00	3.38	3.82	4.23
45.0	0.11	1.43	1.78	2.13	2.39	2.73	3.15	3.59	4.06	4.50
42.5	0.10	1.44	1.84	2.20	2.50	2.90	3.39	3.92	4.51	5.11
40.0	0.10	1.47	1.90	2.28	2.62	3.09	3.65	4.30	5.01	5.84
37.5	0.10	1.50	1.97	2.36	2.74	3.29	3.92	4.68	5.52	6.57
35.0	0.09	1.52	2.04	2.44	2.86	3.48	4.19	5.05	6.03	7.30
32.5	0.09	1.54	2.11	2.52	2.98	3.68	4.46	5.42	6.54	8.02
30.0	0.09	1.57	2.18	2.60	3.10	3.87	4.73	5.80	7.04	8.76
27.5	0.09	1.55	2.18	2.63	3.21	4.09	5.07	6.32	7.92	10.23
25.0	0.09	1.53	2.18	2.66	3.33	4.30	5.41	6.83	8.79	11.70
22.5	0.08	1.51	2.19	2.70	3.44	4.52	5.74	7.34	9.66	13.18
20.0	0.08	1.49	2.19	2.74	3.55	4.73	6.09	7.86	10.53	14.65 *
17.5	0.08	1.54	2.25	2.82	3.70	4.95	6.42	8.39	11.46	16.86 *
15.0	0.08	1.57	2.29	2.89	3.83	5.16	6.73	8.93	12.43	19.18 *
12.5	0.07	1.53	2.27	2.91	3.92	5.33	7.02	9.51	13.56	21.84 *
10.0	0.07	1.48	2.23	2.91	4.00	5.49	7.32	10.10	14.75 *	24.60 *
7.5	0.07	1.53	2.28	2.97	4.09	5.62	7.54	10.41	15.76 *	26.75 *
5.0	0.07	1.56	2.31	3.01	4.16	5.74	7.75	10.72	16.77 *	28.79 *
2.5	0.06	1.52	2.27	3.01	4.19	5.83	7.93	11.02	17.80 *	30.53 *
0.0	0.06	1.47	2.21	2.98	4.21	5.91	8.09	11.31	18.84 *	32.18 *
-2.5	0.07	1.51	2.26	3.02	4.23	5.92	8.10	11.31	19.05 *	32.42 *
-5.0	0.08	1.54	2.28	3.04	4.24	5.93	8.11	11.29	19.18 *	32.57 *
-7.5	0.08	1.51	2.23	3.00	4.22	5.91	8.11	11.23	19.04 *	32.41 *
-10.0	0.08	1.45	2.17	2.94	4.18	5.89	8.12	11.16	18.82 *	32.15 *
-12.5	0.10	1.49	2.19	2.94	4.13	5.78	7.90	10.73	17.61 *	30.44 *
-15.0	0.11	1.52	2.19	2.93	4.06	5.65	7.67	10.29	16.41 *	28.61 *
-17.5	0.12	1.47	2.14	2.87	3.98	5.49	7.41	9.84	15.18 *	26.41 *
-20.0	0.12	1.41	2.08	2.80	3.88	5.33	7.13	9.39	13.94	24.08 *
-22.5	0.14	1.42	2.07	2.77	3.79	5.14	6.79	8.85	12.69	21.23 *
-25.0	0.16	1.44	2.07	2.74	3.70	4.94	6.46	8.30	11.44	18.38 *
-27.5	0.17	1.45	2.06	2.70	3.60	4.75	6.12	7.76	10.18	15.53 *
-30.0	0.19	1.47	2.06	2.68	3.51	4.56	5.77	7.22	8.93	12.68

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CANDELA TABULATION - (Cont.)

-32.5	0.17	1.43	2.01	2.60	3.38	4.35	5.46	6.75	8.21	11.39
-35.0	0.16	1.40	1.96	2.52	3.25	4.15	5.15	6.28	7.48	10.10
-37.5	0.14	1.36	1.91	2.45	3.13	3.95	4.83	5.81	6.76	8.80
-40.0	0.12	1.33	1.86	2.37	2.99	3.75	4.51	5.35	6.03	7.51
-42.5	0.10	1.29	1.81	2.29	2.87	3.55	4.20	4.88	5.31	6.22
-45.0	0.09	1.25	1.77	2.22	2.75	3.37	3.91	4.46	4.68	5.13
-47.5	0.07	1.20	1.74	2.17	2.66	3.22	3.71	4.17	4.33	4.66
-50.0	0.07	1.15	1.70	2.13	2.58	3.09	3.52	3.94	4.09	4.40
-52.5	0.07	1.11	1.68	2.08	2.50	2.95	3.34	3.69	3.84	4.13
-55.0	0.06	1.06	1.65	2.04	2.42	2.82	3.16	3.46	3.61	3.88
-57.5	0.05	1.01	1.63	1.99	2.34	2.69	2.97	3.21	3.36	3.61
-60.0	0.05	0.96	1.60	1.95	2.26	2.56	2.79	2.98	3.12	3.35
-62.5	0.05	0.88	1.55	1.88	2.19	2.48	2.73	2.94	3.08	3.26
-65.0	0.05	0.81	1.50	1.81	2.11	2.41	2.67	2.91	3.05	3.17
-67.5	0.05	0.73	1.44	1.74	2.03	2.33	2.61	2.87	3.02	3.08
-70.0	0.05	0.66	1.39	1.68	1.95	2.25	2.55	2.84	2.98	2.99
-72.5	0.05	0.58	1.34	1.61	1.88	2.17	2.49	2.81	2.95	2.90
-75.0	0.05	0.51	1.29	1.55	1.80	2.10	2.44	2.78	2.92	2.81
-77.5	0.05	0.43	1.24	1.48	1.73	2.02	2.37	2.74	2.88	2.72
-80.0	0.05	0.36	1.19	1.42	1.64	1.94	2.31	2.71	2.84	2.64
-82.5	0.05	0.28	1.14	1.35	1.57	1.87	2.26	2.68	2.81	2.55
-85.0	0.05	0.21	1.08	1.28	1.49	1.79	2.20	2.65	2.78	2.46
-87.5	0.05	0.13	1.03	1.21	1.42	1.72	2.13	2.62	2.75	2.37
-90.0	0.05	0.06	0.98	1.15	1.34	1.64	2.08	2.59	2.71	2.28

Vert. Angles	**Horizontal Angles**									
	-65.0	**-62.5**	**-60.0**	**-57.5**	**-55.0**	**-52.5**	**-50.0**	**-47.5**	**-45.0**	**-42.5**
90.0	2.48	2.21	1.94	1.80	1.58	1.44	1.55	1.77	1.94	2.26
87.5	2.59	2.35	2.05	1.91	1.72	1.61	1.75	2.11	2.42	2.76
85.0	2.71	2.50	2.17	2.02	1.86	1.78	1.94	2.46	2.91	3.26
82.5	2.83	2.64	2.27	2.14	1.99	1.95	2.14	2.80	3.39	3.76
80.0	2.94	2.78	2.38	2.25	2.13	2.12	2.34	3.15	3.87	4.27
77.5	3.06	2.92	2.49	2.36	2.27	2.29	2.54	3.49	4.36	4.77
75.0	3.18	3.06	2.61	2.48	2.41	2.46	2.73	3.84	4.84	5.28
72.5	3.29	3.21	2.72	2.58	2.54	2.63	2.93	4.19	5.32	5.78
70.0	3.40	3.35	2.83	2.70	2.68	2.80	3.13	4.53	5.81	6.29
67.5	3.52	3.49	2.94	2.81	2.82	2.97	3.33	4.88	6.30	6.79
65.0	3.64	3.63	3.06	2.92	2.96	3.14	3.52	5.22	6.78	7.29
62.5	3.75	3.77	3.17	3.03	3.09	3.32	3.72	5.57	7.26	7.80
60.0	3.87	3.92	3.28	3.15	3.23	3.49	3.92	5.92	7.74	8.30
57.5	4.01	4.13	3.67	3.59	3.71	3.96	4.40	6.11	7.73	8.46
55.0	4.14	4.35	4.06	4.04	4.18	4.44	4.87	6.31	7.72	8.62
52.5	4.27	4.57	4.45	4.49	4.66	4.92	5.35	6.51	7.70	8.78
50.0	4.41	4.79	4.84	4.94	5.14	5.39	5.82	6.71	7.68	8.95
47.5	4.55	5.01	5.23	5.38	5.62	5.87	6.30	6.91	7.67	9.11
45.0	4.85	5.43	5.88	6.11	6.35	6.59	6.99	7.37	7.93	9.42
42.5	5.66	6.49	7.26	7.68	7.83	8.00	8.34	8.61	8.99	10.21
40.0	6.64	7.75	8.89	9.53	9.57	9.65	9.90	10.11	10.32	11.15
37.5	7.62	9.01	10.53	11.37	11.31	11.30	11.47	11.61	11.66	12.09
35.0	8.59	10.27	12.16	13.21	13.05	12.95	13.04	13.11	13.00	13.04
32.5	9.57	11.54	13.79	15.06 *	14.78 *	14.60 *	14.60 *	14.61 *	14.33 *	13.98
30.0	10.54	12.80	15.42 *	16.91 *	16.52 *	16.25 *	16.16 *	16.11 *	15.66 *	14.93 *
27.5	13.43	16.97 *	20.37 *	21.28 *	19.98 *	19.27 *	18.94 *	18.85 *	18.52 *	17.96 *
25.0	16.32 *	21.14 *	25.31 *	25.66 *	23.43 *	22.28 *	21.72 *	21.58 *	21.37 *	20.98 *
22.5	19.20 *	25.31 *	30.25 *	30.03 *	26.88 *	25.29 *	24.50 *	24.31 *	24.22 *	24.00 *

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CANDELA TABULATION - (Cont.)

20.0	22.08 *	29.48 *	35.20 *	34.41 *	30.33 *	28.31 *	27.27 *	27.04 *	27.07 *	27.03 *
17.5	25.50 *	33.74 *	39.58 *	39.05 *	35.81 *	33.07 *	31.32 *	30.95 *	31.05 *	31.17 *
15.0	29.02 *	37.97 *	43.88 *	43.64 *	41.16 *	37.91 *	35.74 *	35.24 *	35.38 *	35.70 *
12.5	32.80 *	42.14 *	47.93 *	48.04 *	46.12 *	43.01 *	41.21 *	40.65 *	40.78 *	41.41 *
10.0	36.67 *	46.28 *	51.90 *	52.38 *	50.95 *	48.19 *	47.04 *	46.43 *	46.54 *	47.51 *
7.5	39.28 *	48.76 *	54.39 *	54.98 *	53.90 *	51.80 *	51.68 *	52.80 *	54.54 *	57.06 *
5.0	41.72 *	51.04 *	56.70 *	57.39 *	56.69 *	55.35 *	56.37 *	59.26 *	62.69 *	66.78 *
2.5	43.62 *	52.68 *	58.44 *	59.21 *	58.98 *	58.66 *	61.28 *	66.01 *	71.31 *	76.99 *
0.0	45.33 *	54.11 *	60.00 *	60.85 *	61.11 *	61.89 *	66.27 *	72.86 *	80.10 *	87.36 *
-2.5	45.64 *	55.07 *	60.78 *	62.29 *	63.71 *	64.91 *	69.42 *	75.92 *	83.03 *	90.35 *
-5.0	45.82 *	55.75 *	61.34 *	63.38 *	65.71 *	67.26 *	71.86 *	78.19 *	85.02 *	92.14 *
-7.5	45.59 *	55.54 *	61.20 *	63.39 *	65.92 *	67.61 *	72.17 *	78.06 *	84.19 *	90.35 *
-10.0	45.23 *	55.03 *	60.83 *	63.05 *	65.52 *	67.30 *	71.78 *	77.14 *	82.41 *	87.38 *
-12.5	43.22 *	53.29 *	59.16 *	60.91 *	63.03 *	64.36 *	68.10 *	72.50 *	76.20 *	79.83 *
-15.0	41.06 *	51.34 *	57.19 *	58.45 *	60.08 *	60.82 *	63.71 *	67.10 *	69.43 *	71.85 *
-17.5	38.45 *	48.75 *	54.36 *	55.00 *	55.73 *	55.45 *	57.16 *	59.37 *	61.01 *	62.58 *
-20.0	35.70 *	45.95 *	51.23 *	51.24 *	50.90 *	49.47 *	49.90 *	50.88 *	52.03 *	52.88 *
-22.5	31.87 *	41.47 *	45.86 *	45.74 *	45.24 *	43.88 *	44.07 *	44.56 *	45.08 *	45.35 *
-25.0	28.04 *	36.98 *	40.48 *	40.25 *	39.58 *	38.30 *	38.24 *	38.23 *	38.13 *	37.82 *
-27.5	24.22 *	32.49 *	35.11 *	34.75 *	33.92 *	32.70 *	32.41 *	31.91 *	31.18 *	30.28 *
-30.0	20.39 *	28.01 *	29.73 *	29.26 *	28.26 *	27.12 *	26.57 *	25.59 *	24.23 *	22.75 *
-32.5	17.96 *	24.56 *	26.30 *	26.00 *	25.21 *	24.29 *	23.77 *	22.88 *	21.72 *	20.51 *
-35.0	15.53 *	21.13 *	22.87 *	22.75 *	22.18 *	21.45 *	20.98 *	20.17 *	19.22 *	18.28 *
-37.5	13.10	17.69 *	19.43 *	19.49 *	19.13 *	18.61 *	18.18 *	17.46 *	16.70 *	16.04 *
-40.0	10.66	14.25 *	16.00 *	16.23 *	16.09 *	15.79 *	15.38 *	14.75 *	14.20 *	13.81
-42.5	8.22	10.80	12.56	12.97	13.04	12.95	12.58	12.03	11.69	11.57
-45.0	6.21	7.94	9.65	10.19	10.44	10.54	10.25	9.82	9.62	9.70
-47.5	5.44	6.79	8.28	8.82	9.15	9.40	9.33	9.10	8.89	8.93
-50.0	5.10	6.22	7.43	7.93	8.30	8.67	8.87	8.87	8.59	8.53
-52.5	4.75	5.64	6.58	7.03	7.45	7.95	8.42	8.64	8.30	8.13
-55.0	4.40	5.07	5.73	6.14	6.60	7.23	7.96	8.41	8.01	7.73
-57.5	4.06	4.49	4.88	5.24	5.76	6.50	7.50	8.19	7.71	7.33
-60.0	3.71	3.92	4.03	4.35	4.91	5.78	7.05	7.96	7.42	6.93
-62.5	3.57	3.75	3.86	4.16	4.72	5.57	6.73	7.58	7.12	6.69
-65.0	3.44	3.60	3.69	3.97	4.54	5.35	6.42	7.20	6.81	6.45
-67.5	3.30	3.44	3.52	3.77	4.36	5.14	6.10	6.82	6.50	6.21
-70.0	3.16	3.28	3.36	3.58	4.18	4.93	5.78	6.44	6.20	5.97
-72.5	3.03	3.12	3.19	3.39	3.99	4.71	5.46	6.05	5.90	5.73
-75.0	2.90	2.97	3.03	3.20	3.81	4.50	5.15	5.67	5.59	5.49
-77.5	2.76	2.81	2.86	3.00	3.63	4.29	4.83	5.29	5.29	5.25
-80.0	2.62	2.65	2.69	2.81	3.45	4.08	4.51	4.91	4.98	5.01
-82.5	2.48	2.49	2.52	2.62	3.26	3.86	4.19	4.53	4.68	4.77
-85.0	2.35	2.33	2.36	2.43	3.08	3.65	3.87	4.15	4.38	4.53
-87.5	2.22	2.18	2.19	2.23	2.90	3.44	3.55	3.76	4.07	4.29
-90.0	2.08	2.02	2.02	2.05	2.72	3.23	3.24	3.39	3.77	4.06

Vert. Angles	**Horizontal Angles**									
	-40.0	**-37.5**	**-35.0**	**-32.5**	**-30.0**	**-27.5**	**-25.0**	**-22.5**	**-20.0**	**-17.5**
90.0	2.65	3.41	4.14	4.54	4.75	5.13	5.31	5.46	5.64	5.67
87.5	3.09	3.80	4.51	4.81	4.96	5.29	5.49	5.60	5.76	5.79
85.0	3.53	4.20	4.88	5.08	5.18	5.45	5.66	5.75	5.88	5.91
82.5	3.96	4.60	5.24	5.34	5.39	5.61	5.84	5.89	5.99	6.02
80.0	4.40	5.00	5.60	5.62	5.60	5.77	6.01	6.04	6.10	6.14
77.5	4.84	5.39	5.96	5.88	5.80	5.94	6.18	6.17	6.21	6.25
75.0	5.28	5.79	6.33	6.15	6.02	6.10	6.35	6.32	6.33	6.37

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CANDELA TABULATION - (Cont.)

72.5	5.71	6.19	6.69	6.42	6.23	6.25	6.53	6.46	6.45	6.48
70.0	6.15	6.59	7.06	6.69	6.44	6.42	6.70	6.61	6.56	6.60
67.5	6.59	6.98	7.42	6.95	6.65	6.58	6.88	6.75	6.67	6.71
65.0	7.03	7.38	7.79	7.22	6.87	6.74	7.05	6.89	6.79	6.83
62.5	7.46	7.78	8.15	7.49	7.07	6.90	7.22	7.04	6.90	6.94
60.0	7.90	8.17	8.51	7.76	7.28	7.06	7.39	7.18	7.01	7.06
57.5	8.21	8.37	8.65	8.00	7.58	7.50	7.85	7.66	7.46	7.47
55.0	8.51	8.57	8.79	8.24	7.89	7.94	8.32	8.16	7.91	7.89
52.5	8.82	8.77	8.93	8.47	8.19	8.38	8.77	8.64	8.36	8.31
50.0	9.12	8.97	9.07	8.71	8.49	8.82	9.23	9.13	8.81	8.73
47.5	9.42	9.16	9.21	8.94	8.79	9.26	9.69	9.62	9.25	9.15
45.0	9.83	9.49	9.48	9.31	9.22	9.76	10.16	10.07	9.66	9.52
42.5	10.51	10.17	10.14	10.05	10.05	10.43	10.66	10.43	9.92	9.72
40.0	11.30	10.97	10.94	10.92	11.00	11.17	11.16	10.76	10.14	9.87
37.5	12.08	11.78	11.73	11.79	11.95	11.91	11.66	11.09	10.36	10.02
35.0	12.86	12.58	12.53	12.66	12.91	12.65	12.17	11.41	10.58	10.16
32.5	13.64	13.39	13.32	13.52	13.86	13.38	12.68	11.74	10.80	10.31
30.0	14.43 *	14.20 *	14.12 *	14.40 *	14.81 *	14.12 *	13.18	12.07	11.01	10.46
27.5	17.38 *	16.90 *	16.63 *	16.63 *	16.70 *	15.94 *	14.99 *	13.96	13.00	12.44
25.0	20.35 *	19.61 *	19.15 *	18.86 *	18.59 *	17.76 *	16.81 *	15.85 *	14.99 *	14.43 *
22.5	23.31 *	22.32 *	21.66 *	21.09 *	20.47 *	19.57 *	18.62 *	17.75 *	16.97 *	16.41 *
20.0	26.27 *	25.04 *	24.17 *	23.33 *	22.36 *	21.39 *	20.42 *	19.64 *	18.96 *	18.40 *
17.5	31.00 *	30.17 *	29.52 *	28.54 *	27.56 *	26.54 *	25.47 *	24.52 *	23.71 *	23.03 *
15.0	36.11 *	35.79 *	35.41 *	34.44 *	33.47 *	32.37 *	31.20 *	30.08 *	29.15 *	28.37 *
12.5	42.39 *	42.87 *	42.95 *	42.39 *	41.43 *	40.25 *	38.95 *	37.69 *	36.67 *	35.84 *
10.0	49.05 *	50.44 *	51.05 *	51.02 *	50.09 *	48.81 *	47.39 *	46.00 *	44.88 *	44.03 *
7.5	59.58 *	61.42 *	62.84 *	63.65 *	63.25 *	62.25 *	61.32 *	60.21 *	59.33 *	58.70 *
5.0	70.42 *	72.98 *	75.34 *	77.04 *	77.26 *	76.65 *	76.32 *	75.76 *	75.35 *	75.15 *
2.5	82.19 *	86.24 *	89.93 *	92.71 *	93.78 *	93.93 *	94.56 *	95.31 *	96.08 *	96.93 *
0.0	94.26 *	100.08 *	105.23 *	109.15 *	111.13 *	112.18 *	113.88 *	116.20 *	118.38 *	120.49 *
-2.5	97.39 *	102.82 *	107.76 *	111.93 *	114.64 *	116.48 *	119.08 *	122.10 *	124.96 *	127.70 *
-5.0	98.98 *	103.98 *	108.62 *	112.93 *	116.24 *	118.80 *	122.12 *	125.64 *	128.99 *	132.27 *
-7.5	95.95 *	100.35 *	104.48 *	108.62 *	112.12 *	115.13 *	118.62 *	122.07 *	125.33 *	128.92 *
-10.0	91.40 *	95.14 *	98.68 *	102.54 *	106.09 *	109.48 *	112.96 *	116.13 *	119.13 *	122.92 *
-12.5	82.96 *	85.79 *	88.42 *	91.53 *	94.39 *	97.24 *	99.91 *	102.37 *	104.63 *	107.56 *
-15.0	74.09 *	76.02 *	77.78 *	80.08 *	82.18 *	84.35 *	86.16 *	87.76 *	89.22 *	91.21 *
-17.5	63.90 *	65.01 *	65.98 *	67.25 *	68.37 *	69.50 *	70.28 *	70.55 *	71.08 *	71.86 *
-20.0	53.28 *	53.59 *	53.79 *	53.96 *	54.04 *	54.00 *	53.69 *	52.50 *	52.03 *	51.50 *
-22.5	45.24 *	45.18 *	45.10 *	45.02 *	44.92 *	44.81 *	44.53 *	43.64 *	43.32 *	42.96 *
-25.0	37.21 *	36.78 *	36.42 *	36.07 *	35.80 *	35.62 *	35.37 *	34.78 *	34.61 *	34.41 *
-27.5	29.17 *	28.38 *	27.74 *	27.12 *	26.68 *	26.43 *	26.20 *	25.92 *	25.90 *	25.86 *
-30.0	21.13 *	19.98 *	19.06 *	18.18 *	17.56 *	17.24 *	17.04 *	17.07 *	17.19 *	17.32 *
-32.5	19.20 *	18.22 *	17.50 *	17.00 *	16.58 *	16.23 *	15.89 *	15.77 *	15.83 *	15.96 *
-35.0	17.27 *	16.47 *	15.94 *	15.82 *	15.60 *	15.22 *	14.74 *	14.47 *	14.45 *	14.60 *
-37.5	15.34 *	14.72 *	14.37 *	14.65 *	14.62 *	14.21 *	13.59	13.17	13.08	13.24
-40.0	13.40	12.96	12.81	13.47	13.64	13.20	12.44	11.87	11.71	11.88
-42.5	11.47	11.21	11.25	12.29	12.66	12.19	11.29	10.56	10.35	10.52
-45.0	9.83	9.72	9.90	11.21	11.75	11.30	10.29	9.47	9.20	9.39
-47.5	9.07	9.00	9.20	10.41	11.05	10.74	9.77	8.98	8.75	8.94
-50.0	8.61	8.54	8.71	9.72	10.42	10.30	9.41	8.70	8.54	8.71
-52.5	8.15	8.08	8.22	9.02	9.79	9.85	9.05	8.40	8.32	8.48
-55.0	7.69	7.62	7.74	8.33	9.16	9.40	8.70	8.12	8.10	8.25
-57.5	7.22	7.16	7.24	7.63	8.53	8.96	8.33	7.84	7.88	8.03
-60.0	6.75	6.70	6.75	6.94	7.89	8.52	7.97	7.55	7.66	7.80
-62.5	6.54	6.49	6.54	6.73	7.65	8.25	7.76	7.37	7.48	7.65
-65.0	6.32	6.28	6.32	6.52	7.41	7.99	7.54	7.19	7.30	7.50

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CANDELA TABULATION - (Cont.)

-67.5	6.10	6.07	6.10	6.31	7.17	7.72	7.32	7.02	7.12	7.35
-70.0	5.89	5.86	5.89	6.11	6.93	7.46	7.10	6.84	6.94	7.20
-72.5	5.67	5.64	5.67	5.90	6.69	7.20	6.89	6.66	6.76	7.05
-75.0	5.46	5.43	5.46	5.69	6.45	6.93	6.67	6.48	6.58	6.90
-77.5	5.24	5.22	5.24	5.48	6.21	6.67	6.45	6.31	6.40	6.75
-80.0	5.02	5.01	5.02	5.28	5.97	6.41	6.23	6.13	6.21	6.60
-82.5	4.81	4.79	4.81	5.07	5.72	6.14	6.02	5.95	6.03	6.45
-85.0	4.59	4.58	4.59	4.86	5.49	5.88	5.80	5.77	5.85	6.30
-87.5	4.37	4.37	4.37	4.65	5.25	5.61	5.58	5.60	5.67	6.15
-90.0	4.16	4.16	4.16	4.44	5.00	5.35	5.36	5.41	5.48	6.00

Vert. Angles	**Horizontal Angles**									
	-15.0	**-12.5**	**-10.0**	**-7.5**	**-5.0**	**-2.5**	**0.0**	**2.5**	**5.0**	**7.5**
90.0	5.67	5.55	5.33	5.75	6.53	6.94	6.58	5.93	5.58	5.72
87.5	5.79	5.68	5.48	5.86	6.58	6.95	6.62	6.01	5.69	5.82
85.0	5.91	5.81	5.63	5.97	6.62	6.96	6.66	6.10	5.81	5.93
82.5	6.03	5.94	5.78	6.08	6.66	6.96	6.69	6.19	5.93	6.03
80.0	6.14	6.07	5.92	6.19	6.70	6.97	6.72	6.29	6.05	6.14
77.5	6.26	6.20	6.07	6.30	6.74	6.97	6.76	6.37	6.17	6.25
75.0	6.38	6.33	6.22	6.41	6.79	6.98	6.79	6.46	6.29	6.36
72.5	6.49	6.45	6.37	6.52	6.82	6.99	6.82	6.55	6.41	6.46
70.0	6.61	6.59	6.51	6.63	6.87	7.00	6.86	6.64	6.52	6.57
67.5	6.72	6.72	6.66	6.75	6.91	7.00	6.89	6.73	6.64	6.68
65.0	6.84	6.85	6.81	6.86	6.95	7.01	6.93	6.82	6.76	6.78
62.5	6.96	6.97	6.96	6.97	6.99	7.02	6.96	6.91	6.88	6.88
60.0	7.07	7.10	7.10	7.08	7.03	7.02	6.99	6.99	6.99	6.99
57.5	7.48	7.51	7.51	7.51	7.49	7.49	7.47	7.47	7.46	7.44
55.0	7.90	7.91	7.92	7.94	7.94	7.95	7.94	7.94	7.93	7.89
52.5	8.30	8.32	8.33	8.37	8.39	8.41	8.42	8.42	8.40	8.34
50.0	8.71	8.72	8.73	8.81	8.84	8.88	8.89	8.88	8.86	8.78
47.5	9.12	9.13	9.14	9.24	9.30	9.34	9.37	9.36	9.33	9.22
45.0	9.47	9.46	9.48	9.58	9.66	9.71	9.75	9.74	9.71	9.59
42.5	9.64	9.60	9.58	9.67	9.74	9.80	9.85	9.84	9.81	9.69
40.0	9.74	9.67	9.61	9.68	9.74	9.82	9.86	9.85	9.82	9.71
37.5	9.84	9.73	9.65	9.68	9.73	9.82	9.87	9.86	9.83	9.73
35.0	9.95	9.80	9.68	9.69	9.73	9.83	9.88	9.88	9.85	9.75
32.5	10.06	9.86	9.71	9.70	9.72	9.83	9.89	9.89	9.86	9.77
30.0	10.16	9.93	9.74	9.70	9.71	9.84	9.90	9.90	9.87	9.79
27.5	12.10	11.81	11.55	11.42	11.34	11.37	11.39	11.39	11.36	11.30
25.0	14.04	13.69	13.37	13.13	12.96	12.91	12.88	12.87	12.86	12.82
22.5	15.97 *	15.57 *	15.18 *	14.84 *	14.59 *	14.44 *	14.36 *	14.35 *	14.34 *	14.33 *
20.0	17.90 *	17.45 *	16.98 *	16.56 *	16.22 *	15.98 *	15.85 *	15.83 *	15.83 *	15.83 *
17.5	22.46 *	21.96 *	21.49 *	21.02 *	20.62 *	20.29 *	20.05 *	19.93 *	19.89 *	19.87 *
15.0	27.74 *	27.19 *	26.69 *	26.17 *	25.71 *	25.29 *	24.92 *	24.71 *	24.61 *	24.57 *
12.5	35.14 *	34.57 *	33.98 *	33.40 *	32.84 *	32.32 *	31.86 *	31.53 *	31.34 *	31.26 *
10.0	43.26 *	42.66 *	41.97 *	41.32 *	40.65 *	40.04 *	39.47 *	39.04 *	38.73 *	38.60 *
7.5	58.16 *	57.59 *	56.72 *	55.85 *	55.05 *	54.12 *	53.11 *	52.12 *	51.39 *	50.96 *
5.0	75.00 *	74.66 *	73.80 *	72.85 *	71.96 *	70.76 *	69.42 *	68.00 *	66.87 *	66.07 *
2.5	97.66 *	98.13 *	97.90 *	97.24 *	96.34 *	95.10 *	93.78 *	92.28 *	90.85 *	89.42 *
0.0	122.26 *	123.74 *	124.35 *	124.09 *	123.24 *	122.01 *	120.83 *	119.37 *	117.65 *	115.50 *
-2.5	130.22 *	132.05 *	133.22 *	133.55 *	133.44 *	132.81 *	132.12 *	131.08 *	129.64 *	127.84 *
-5.0	135.39 *	137.57 *	139.24 *	140.09 *	140.61 *	140.52 *	140.26 *	139.61 *	138.48 *	137.01 *
-7.5	132.22 *	134.71 *	136.69 *	137.85 *	138.66 *	138.90 *	138.92 *	138.61 *	137.81 *	136.68 *
-10.0	126.27 *	129.06 *	131.29 *	132.69 *	133.67 *	134.19 *	134.42 *	134.43 *	133.98 *	133.20 *
-12.5	110.07 *	112.17 *	114.15 *	115.59 *	116.77 *	117.54 *	118.12 *	118.58 *	118.65 *	118.53 *

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CANDELA TABULATION - (Cont.)

-15.0	92.81 *	94.17 *	95.78 *	97.15 *	98.42 *	99.37 *	100.21 *	101.10 *	101.69 *	102.30 *
-17.5	72.32 *	72.82 *	73.71 *	74.67 *	75.71 *	76.58 *	77.51 *	78.71 *	79.84 *	81.40 *
-20.0	50.76 *	50.33 *	50.41 *	50.84 *	51.55 *	52.26 *	53.22 *	54.68 *	56.35 *	58.93 *
-22.5	42.42 *	42.12 *	42.22 *	42.57 *	43.14 *	43.71 *	44.47 *	45.62 *	46.94 *	48.91 *
-25.0	34.09 *	33.91 *	34.03 *	34.30 *	34.73 *	35.17 *	35.74 *	36.56 *	37.51 *	38.89 *
-27.5	25.74 *	25.70 *	25.84 *	26.03 *	26.32 *	26.62 *	26.99 *	27.51 *	28.09 *	28.87 *
-30.0	17.40 *	17.49 *	17.64 *	17.77 *	17.91 *	18.08 *	18.25 *	18.45 *	18.67 *	18.85 *
-32.5	16.01 *	16.08 *	16.23 *	16.35 *	16.48 *	16.62 *	16.77 *	16.93 *	17.12 *	17.26 *
-35.0	14.63 *	14.68 *	14.80 *	14.92 *	15.05 *	15.17 *	15.29 *	15.42 *	15.57 *	15.68 *
-37.5	13.23	13.27	13.38	13.50	13.61	13.71	13.80	13.90	14.01	14.10 *
-40.0	11.84	11.86	11.96	12.08	12.17	12.26	12.32	12.39	12.46	12.52
-42.5	10.45	10.46	10.55	10.66	10.73	10.80	10.83	10.87	10.90	10.93
-45.0	9.31	9.30	9.38	9.49	9.56	9.60	9.61	9.62	9.62	9.62
-47.5	8.88	8.90	8.99	9.08	9.14	9.18	9.18	9.16	9.14	9.13
-50.0	8.69	8.75	8.84	8.95	8.99	9.02	9.01	8.98	8.94	8.91
-52.5	8.51	8.59	8.70	8.80	8.84	8.86	8.84	8.78	8.74	8.69
-55.0	8.33	8.44	8.57	8.66	8.68	8.70	8.67	8.60	8.53	8.46
-57.5	8.14	8.29	8.43	8.52	8.53	8.54	8.50	8.40	8.33	8.24
-60.0	7.95	8.14	8.29	8.37	8.37	8.38	8.32	8.22	8.12	8.02
-62.5	7.85	8.05	8.20	8.26	8.25	8.25	8.21	8.08	7.98	7.87
-65.0	7.75	7.97	8.12	8.16	8.12	8.13	8.09	7.95	7.84	7.72
-67.5	7.65	7.88	8.04	8.06	8.00	8.01	7.97	7.82	7.70	7.57
-70.0	7.55	7.80	7.95	7.96	7.87	7.88	7.85	7.69	7.56	7.42
-72.5	7.45	7.71	7.86	7.85	7.74	7.75	7.74	7.56	7.42	7.27
-75.0	7.35	7.62	7.78	7.74	7.61	7.63	7.62	7.42	7.28	7.12
-77.5	7.25	7.54	7.69	7.64	7.49	7.50	7.50	7.29	7.14	6.97
-80.0	7.15	7.45	7.61	7.53	7.36	7.38	7.38	7.16	7.00	6.82
-82.5	7.04	7.36	7.52	7.42	7.24	7.26	7.27	7.03	6.85	6.67
-85.0	6.94	7.28	7.44	7.32	7.11	7.13	7.15	6.90	6.72	6.52
-87.5	6.84	7.19	7.35	7.21	6.99	7.00	7.03	6.76	6.58	6.37
-90.0	6.74	7.11	7.26	7.11	6.85	6.88	6.91	6.63	6.43	6.22

Vert. Angles	**Horizontal Angles**									
	10.0	**12.5**	**15.0**	**17.5**	**20.0**	**22.5**	**25.0**	**27.5**	**30.0**	**32.5**
90.0	6.14	5.92	5.14	4.71	4.69	4.69	4.69	4.44	4.11	4.04
87.5	6.22	6.01	5.29	4.90	4.88	4.88	4.89	4.67	4.42	4.42
85.0	6.29	6.11	5.45	5.09	5.08	5.08	5.09	4.92	4.74	4.80
82.5	6.37	6.20	5.61	5.29	5.27	5.28	5.29	5.15	5.05	5.19
80.0	6.44	6.29	5.77	5.48	5.46	5.47	5.49	5.39	5.36	5.57
77.5	6.51	6.38	5.92	5.67	5.66	5.67	5.70	5.63	5.67	5.95
75.0	6.58	6.48	6.08	5.87	5.86	5.87	5.90	5.87	5.99	6.34
72.5	6.66	6.57	6.24	6.06	6.05	6.06	6.10	6.10	6.30	6.72
70.0	6.73	6.67	6.39	6.25	6.24	6.26	6.30	6.34	6.60	7.10
67.5	6.81	6.75	6.55	6.44	6.44	6.46	6.51	6.58	6.91	7.49
65.0	6.88	6.85	6.71	6.64	6.64	6.65	6.71	6.82	7.23	7.87
62.5	6.95	6.94	6.87	6.83	6.83	6.85	6.91	7.06	7.54	8.25
60.0	7.02	7.03	7.02	7.02	7.02	7.04	7.11	7.30	7.85	8.64
57.5	7.43	7.41	7.37	7.35	7.35	7.38	7.47	7.70	8.20	8.82
55.0	7.85	7.79	7.72	7.68	7.67	7.72	7.83	8.10	8.54	8.99
52.5	8.26	8.16	8.07	8.01	8.00	8.06	8.19	8.49	8.87	9.17
50.0	8.68	8.55	8.42	8.34	8.32	8.40	8.54	8.89	9.21	9.35
47.5	9.09	8.92	8.77	8.67	8.64	8.73	8.90	9.29	9.55	9.53
45.0	9.43	9.24	9.08	8.97	8.94	9.05	9.24	9.67	9.91	9.76
42.5	9.55	9.38	9.27	9.18	9.16	9.29	9.49	9.97	10.30	10.14
40.0	9.60	9.46	9.41	9.36	9.35	9.50	9.72	10.26	10.71	10.58

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CANDELA TABULATION - (Cont.)

37.5	9.65	9.55	9.56	9.54	9.55	9.71	9.95	10.55	11.12	11.01
35.0	9.69	9.63	9.70	9.72	9.75	9.92	10.18	10.84	11.54	11.45
32.5	9.74	9.72	9.84	9.90	9.94	10.13	10.41	11.12	11.95	11.88
30.0	9.79	9.80	9.99	10.08	10.14	10.34	10.64	11.41	12.36	12.32
27.5	11.30	11.31	11.45	11.52	11.58	11.77	12.07	12.74	13.57	13.67
25.0	12.82	12.82	12.92	12.96	13.02	13.20	13.49	14.08 *	14.79 *	15.03 *
22.5	14.33 *	14.33 *	14.38 *	14.40 *	14.45 *	14.63 *	14.92 *	15.41 *	16.00 *	16.38 *
20.0	15.83 *	15.83 *	15.83 *	15.84 *	15.88 *	16.06 *	16.34 *	16.74 *	17.21 *	17.73 *
17.5	19.86 *	19.86 *	19.89 *	19.94 *	20.05 *	20.35 *	20.69 *	21.14 *	21.58 *	21.94 *
15.0	24.53 *	24.52 *	24.59 *	24.69 *	24.85 *	25.24 *	25.62 *	26.06 *	26.44 *	26.61 *
12.5	31.16 *	31.09 *	31.19 *	31.36 *	31.58 *	31.95 *	32.26 *	32.60 *	32.78 *	32.69 *
10.0	38.43 *	38.30 *	38.44 *	38.68 *	38.94 *	39.26 *	39.48 *	39.66 *	39.61 *	39.24 *
7.5	50.59 *	50.30 *	50.23 *	50.17 *	50.24 *	50.65 *	50.71 *	50.71 *	50.45 *	49.69 *
5.0	65.36 *	64.74 *	64.28 *	63.76 *	63.48 *	63.66 *	63.33 *	62.86 *	62.13 *	60.70 *
2.5	87.95 *	86.49 *	85.14 *	83.62 *	82.56 *	81.51 *	80.15 *	78.36 *	76.32 *	73.43 *
0.0	113.15 *	110.67 *	108.26 *	105.58 *	103.57 *	100.97 *	98.37 *	94.96 *	91.35 *	86.72 *
-2.5	125.62 *	123.15 *	120.62 *	117.77 *	115.37 *	112.79 *	110.41 *	108.42 *	104.72 *	98.91 *
-5.0	134.96 *	132.58 *	130.06 *	127.23 *	124.59 *	122.07 *	119.99 *	118.98 *	115.19 *	108.63 *
-7.5	134.89 *	132.86 *	130.77 *	128.46 *	126.01 *	123.75 *	122.15 *	120.77 *	116.94 *	110.99 *
-10.0	131.69 *	130.10 *	128.56 *	126.94 *	124.82 *	122.89 *	121.85 *	119.64 *	115.79 *	110.89 *
-12.5	117.88 *	117.19 *	116.72 *	116.13 *	115.17 *	114.06 *	113.15 *	111.24 *	108.22 *	104.10 *
-15.0	102.58 *	102.87 *	103.52 *	104.00 *	104.27 *	104.14 *	103.60 *	102.19 *	100.03 *	96.75 *
-17.5	82.84 *	84.31 *	86.21 *	87.93 *	89.66 *	90.93 *	91.50 *	91.19 *	90.02 *	87.74 *
-20.0	61.62 *	64.34 *	67.52 *	70.55 *	73.80 *	76.65 *	78.56 *	79.53 *	79.40 *	78.17 *
-22.5	51.00 *	53.16 *	55.71 *	58.17 *	60.83 *	63.22 *	64.99 *	66.08 *	66.26 *	65.65 *
-25.0	40.37 *	41.99 *	43.89 *	45.80 *	47.86 *	49.79 *	51.41 *	52.62 *	53.14 *	53.13 *
-27.5	29.75 *	30.82 *	32.08 *	33.43 *	34.89 *	36.36 *	37.84 *	39.17 *	40.00 *	40.61 *
-30.0	19.12 *	19.65 *	20.27 *	21.06 *	21.92 *	22.93 *	24.27 *	25.72 *	26.86 *	28.10 *
-32.5	17.52 *	17.98 *	18.47 *	19.12 *	19.86 *	20.80 *	22.10 *	23.35 *	24.20 *	25.16 *
-35.0	15.91 *	16.30 *	16.67 *	17.19 *	17.81 *	18.67 *	19.92 *	20.97 *	21.53 *	22.21 *
-37.5	14.29 *	14.63 *	14.87 *	15.25 *	15.75 *	16.55 *	17.74 *	18.59 *	18.86 *	19.27 *
-40.0	12.68	12.95	13.06	13.32	13.69	14.43 *	15.56 *	16.22 *	16.18 *	16.32 *
-42.5	11.07	11.27	11.26	11.38	11.64	12.30	13.39	13.84	13.52	13.38
-45.0	9.73	9.87	9.77	9.79	9.94	10.52	11.55	11.83	11.29	10.93
-47.5	9.20	9.31	9.19	9.20	9.33	9.80	10.72	10.91	10.39	9.98
-50.0	8.94	9.02	8.93	8.95	9.07	9.43	10.23	10.35	9.94	9.53
-52.5	8.69	8.73	8.66	8.71	8.82	9.05	9.74	9.79	9.48	9.07
-55.0	8.43	8.44	8.40	8.46	8.57	8.68	9.26	9.24	9.03	8.62
-57.5	8.17	8.15	8.13	8.21	8.31	8.31	8.77	8.68	8.57	8.16
-60.0	7.91	7.86	7.86	7.96	8.06	7.94	8.28	8.13	8.12	7.71
-62.5	7.75	7.69	7.68	7.77	7.85	7.73	8.03	7.87	7.80	7.40
-65.0	7.58	7.51	7.50	7.57	7.63	7.52	7.77	7.61	7.48	7.09
-67.5	7.41	7.34	7.32	7.37	7.41	7.30	7.51	7.35	7.16	6.79
-70.0	7.24	7.16	7.14	7.17	7.19	7.10	7.26	7.09	6.84	6.48
-72.5	7.08	6.99	6.96	6.97	6.98	6.88	7.00	6.82	6.52	6.17
-75.0	6.91	6.81	6.78	6.77	6.76	6.67	6.75	6.56	6.20	5.86
-77.5	6.74	6.64	6.60	6.57	6.54	6.46	6.49	6.30	5.88	5.56
-80.0	6.57	6.46	6.42	6.37	6.32	6.25	6.23	6.04	5.55	5.25
-82.5	6.41	6.28	6.24	6.17	6.11	6.04	5.98	5.78	5.24	4.94
-85.0	6.24	6.11	6.06	5.97	5.89	5.83	5.72	5.52	4.91	4.63
-87.5	6.07	5.93	5.88	5.78	5.67	5.62	5.46	5.26	4.59	4.33
-90.0	5.90	5.75	5.69	5.57	5.45	5.40	5.20	5.00	4.27	4.03

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IES FLOOD REPORT
PHOTOMETRIC FILENAME : CRL_SINGLE_LAMP.IES

CANDELA TABULATION - (Cont.)

Vert. Angles	Horizontal Angles									
	35.0	37.5	40.0	42.5	45.0	47.5	50.0	52.5	55.0	57.5
90.0	3.83	3.45	3.20	2.91	2.52	2.24	2.11	1.99	1.56	1.24
87.5	4.31	3.90	3.57	3.23	2.87	2.65	2.43	2.19	1.70	1.36
85.0	4.79	4.35	3.94	3.55	3.22	3.06	2.75	2.40	1.83	1.48
82.5	5.27	4.81	4.32	3.87	3.56	3.46	3.06	2.61	1.96	1.61
80.0	5.74	5.26	4.69	4.19	3.91	3.87	3.38	2.81	2.10	1.73
77.5	6.22	5.71	5.07	4.50	4.26	4.28	3.69	3.02	2.23	1.85
75.0	6.70	6.17	5.44	4.82	4.61	4.69	4.01	3.23	2.37	1.98
72.5	7.18	6.62	5.81	5.14	4.96	5.09	4.33	3.43	2.50	2.10
70.0	7.66	7.08	6.18	5.46	5.31	5.50	4.65	3.64	2.63	2.22
67.5	8.14	7.53	6.56	5.78	5.66	5.91	4.96	3.85	2.77	2.35
65.0	8.61	7.98	6.93	6.10	6.01	6.32	5.28	4.05	2.90	2.47
62.5	9.09	8.44	7.30	6.42	6.35	6.72	5.60	4.26	3.03	2.60
60.0	9.57	8.89	7.67	6.74	6.70	7.13	5.91	4.47	3.17	2.72
57.5	9.58	8.97	7.88	7.10	7.01	7.19	5.91	4.55	3.35	2.93
55.0	9.60	9.05	8.10	7.45	7.33	7.24	5.91	4.64	3.52	3.14
52.5	9.62	9.13	8.31	7.80	7.64	7.30	5.90	4.73	3.70	3.34
50.0	9.63	9.21	8.52	8.16	7.95	7.36	5.90	4.82	3.88	3.56
47.5	9.64	9.29	8.73	8.51	8.26	7.41	5.90	4.90	4.06	3.77
45.0	9.73	9.42	8.98	8.86	8.57	7.54	6.02	5.10	4.35	4.06
42.5	10.00	9.70	9.32	9.19	8.87	7.89	6.48	5.65	4.95	4.61
40.0	10.34	10.02	9.69	9.51	9.17	8.30	7.08	6.32	5.65	5.25
37.5	10.68	10.34	10.06	9.84	9.46	8.72	7.67	6.98	6.36	5.89
35.0	11.02	10.66	10.43	10.16	9.76	9.14	8.26	7.65	7.07	6.53
32.5	11.35	10.98	10.80	10.48	10.05	9.56	8.85	8.31	7.77	7.17
30.0	11.69	11.31	11.17	10.81	10.35	9.98	9.44	8.98	8.48	7.80
27.5	13.29	13.03	12.93	12.70	12.35	12.02	11.62	11.37	11.03	10.91
25.0	14.90 *	14.76 *	14.70 *	14.59 *	14.36 *	14.06	13.80	13.75	13.59	14.02
22.5	16.50 *	16.49 *	16.46 *	16.47 *	16.36 *	16.10 *	15.98 *	16.13 *	16.15 *	17.12 *
20.0	18.10 *	18.22 *	18.22 *	18.36 *	18.36 *	18.14 *	18.16 *	18.52 *	18.70 *	20.23 *
17.5	22.05 *	21.91 *	21.72 *	21.71 *	21.67 *	21.71 *	22.26 *	23.14 *	24.41 *	25.87 *
15.0	26.43 *	25.97 *	25.56 *	25.42 *	25.45 *	25.77 *	26.77 *	28.01 *	30.09 *	31.32 *
12.5	32.09 *	31.18 *	30.42 *	30.25 *	30.63 *	31.30 *	32.52 *	33.60 *	35.69 *	36.18 *
10.0	38.17 *	36.77 *	35.61 *	35.45 *	36.28 *	37.35 *	38.69 *	39.44 *	41.25 *	40.86 *
7.5	47.97 *	45.85 *	44.12 *	43.36 *	43.11 *	43.29 *	43.71 *	44.01 *	45.57 *	44.65 *
5.0	58.18 *	55.18 *	52.66 *	51.09 *	49.70 *	49.06 *	48.63 *	48.51 *	49.84 *	48.41 *
2.5	69.59 *	65.24 *	61.30 *	58.31 *	55.62 *	54.27 *	53.26 *	52.76 *	53.96 *	52.09 *
0.0	81.42 *	75.55 *	69.97 *	65.36 *	61.29 *	59.30 *	57.79 *	56.93 *	58.04 *	55.75 *
-2.5	92.45 *	85.64 *	78.92 *	72.76 *	66.79 *	63.26 *	60.93 *	59.78 *	60.95 *	58.49 *
-5.0	101.42 *	93.98 *	86.45 *	79.12 *	71.78 *	66.96 *	63.76 *	62.24 *	63.43 *	60.77 *
-7.5	104.18 *	97.08 *	89.75 *	82.33 *	75.16 *	69.83 *	65.66 *	63.51 *	64.60 *	61.72 *
-10.0	104.88 *	98.44 *	91.63 *	84.49 *	78.02 *	72.43 *	67.25 *	64.38 *	65.32 *	62.22 *
-12.5	99.23 *	93.97 *	88.28 *	82.10 *	76.06 *	70.61 *	66.09 *	63.89 *	64.76 *	61.20 *
-15.0	93.03 *	88.94 *	84.39 *	79.22 *	73.77 *	68.68 *	64.77 *	63.15 *	63.97 *	60.00 *
-17.5	85.16 *	82.21 *	78.82 *	74.91 *	70.49 *	66.45 *	63.02 *	61.62 *	62.48 *	58.25 *
-20.0	76.73 *	74.93 *	72.71 *	70.13 *	66.88 *	64.11 *	61.12 *	59.83 *	60.74 *	56.32 *
-22.5	65.05 *	64.19 *	62.92 *	61.46 *	59.56 *	58.24 *	56.86 *	56.69 *	57.96 *	53.22 *
-25.0	53.37 *	53.45 *	53.14 *	52.78 *	52.24 *	52.38 *	52.59 *	53.55 *	55.18 *	50.11 *
-27.5	41.69 *	42.71 *	43.35 *	44.11 *	44.92 *	46.51 *	48.32 *	50.41 *	52.40 *	47.00 *
-30.0	30.01 *	31.97 *	33.57 *	35.43 *	37.61 *	40.64 *	44.04 *	47.26 *	49.62 *	43.89 *
-32.5	26.69 *	28.28 *	29.61 *	31.22 *	33.16 *	35.82 *	38.68 *	41.39 *	43.38 *	38.42 *
-35.0	23.37 *	24.60 *	25.66 *	27.00 *	28.73 *	30.99 *	33.31 *	35.52 *	37.14 *	32.95 *
-37.5	20.05 *	20.92 *	21.70 *	22.79 *	24.29 *	26.17 *	27.93 *	29.64 *	30.89 *	27.47 *
-40.0	16.73 *	17.24 *	17.74 *	18.57 *	19.85 *	21.35 *	22.57 *	23.77 *	24.65 *	21.99 *

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CANDELA TABULATION - (Cont.)

-42.5	13.42	13.55	13.79	14.36 *	15.41 *	16.53 *	17.20 *	17.89 *	18.40 *	16.52 *
-45.0	10.67	10.53	10.52	10.84	11.67	12.43	12.65	12.92	13.14	11.91
-47.5	9.63	9.48	9.34	9.42	9.99	10.53	10.52	10.64	10.79	9.90
-50.0	9.17	9.09	8.84	8.70	9.00	9.35	9.22	9.26	9.42	8.76
-52.5	8.71	8.70	8.34	7.98	8.01	8.16	7.92	7.88	8.06	7.62
-55.0	8.24	8.31	7.85	7.26	7.03	6.98	6.61	6.50	6.69	6.47
-57.5	7.77	7.92	7.35	6.53	6.04	5.80	5.31	5.12	5.32	5.33
-60.0	7.31	7.53	6.86	5.81	5.05	4.63	4.00	3.74	3.95	4.19
-62.5	7.01	7.17	6.52	5.55	4.82	4.38	3.80	3.55	3.75	3.98
-65.0	6.70	6.80	6.18	5.27	4.59	4.13	3.60	3.37	3.56	3.78
-67.5	6.38	6.44	5.84	5.00	4.35	3.89	3.39	3.19	3.37	3.57
-70.0	6.08	6.08	5.49	4.74	4.11	3.64	3.19	3.01	3.17	3.37
-72.5	5.77	5.71	5.15	4.46	3.88	3.39	2.98	2.83	2.98	3.16
-75.0	5.46	5.35	4.82	4.19	3.65	3.15	2.78	2.65	2.79	2.96
-77.5	5.15	4.99	4.47	3.92	3.41	2.90	2.57	2.46	2.60	2.76
-80.0	4.84	4.63	4.13	3.65	3.17	2.66	2.37	2.28	2.40	2.55
-82.5	4.54	4.26	3.79	3.39	2.93	2.41	2.16	2.10	2.21	2.34
-85.0	4.23	3.90	3.45	3.11	2.70	2.17	1.96	1.92	2.02	2.14
-87.5	3.91	3.53	3.11	2.84	2.47	1.92	1.75	1.73	1.82	1.93
-90.0	3.61	3.18	2.77	2.58	2.23	1.67	1.55	1.56	1.63	1.73

Vert. Angles	**Horizontal Angles**									
	60.0	**62.5**	**65.0**	**67.5**	**70.0**	**72.5**	**75.0**	**77.5**	**80.0**	**82.5**
90.0	1.21	1.34	1.65	1.96	2.08	1.97	1.64	1.44	1.07	0.98
87.5	1.33	1.45	1.73	2.03	2.12	2.00	1.68	1.49	1.12	1.01
85.0	1.45	1.56	1.82	2.11	2.17	2.03	1.73	1.55	1.18	1.05
82.5	1.58	1.67	1.90	2.18	2.21	2.06	1.77	1.60	1.24	1.09
80.0	1.69	1.78	1.98	2.26	2.25	2.09	1.81	1.65	1.29	1.13
77.5	1.81	1.89	2.07	2.33	2.30	2.12	1.86	1.70	1.35	1.16
75.0	1.93	2.00	2.16	2.41	2.34	2.14	1.90	1.75	1.41	1.20
72.5	2.06	2.11	2.24	2.48	2.38	2.17	1.94	1.80	1.46	1.24
70.0	2.17	2.22	2.32	2.56	2.43	2.20	1.98	1.86	1.51	1.28
67.5	2.30	2.33	2.41	2.63	2.48	2.23	2.03	1.91	1.57	1.31
65.0	2.42	2.44	2.49	2.71	2.52	2.26	2.07	1.96	1.63	1.35
62.5	2.54	2.55	2.57	2.79	2.56	2.29	2.11	2.01	1.68	1.39
60.0	2.66	2.66	2.66	2.86	2.61	2.32	2.16	2.07	1.74	1.43
57.5	2.87	2.94	2.93	3.01	2.71	2.39	2.20	2.07	1.75	1.46
55.0	3.09	3.22	3.20	3.15	2.82	2.46	2.23	2.07	1.76	1.48
52.5	3.31	3.50	3.47	3.30	2.93	2.53	2.26	2.07	1.77	1.51
50.0	3.52	3.78	3.73	3.45	3.03	2.60	2.30	2.08	1.78	1.54
47.5	3.74	4.06	4.00	3.59	3.14	2.67	2.34	2.08	1.79	1.56
45.0	4.02	4.35	4.26	3.76	3.28	2.76	2.38	2.09	1.81	1.58
42.5	4.49	4.67	4.51	3.99	3.48	2.90	2.48	2.14	1.83	1.59
40.0	5.01	4.99	4.75	4.24	3.70	3.06	2.58	2.21	1.87	1.60
37.5	5.54	5.32	5.00	4.50	3.93	3.22	2.69	2.27	1.91	1.60
35.0	6.07	5.64	5.24	4.75	4.15	3.38	2.80	2.33	1.94	1.61
32.5	6.60	5.96	5.48	5.00	4.38	3.54	2.90	2.40	1.97	1.61
30.0	7.12	6.29	5.72	5.25	4.60	3.71	3.01	2.47	2.01	1.63
27.5	9.86	8.05	6.73	5.82	5.00	4.01	3.21	2.60	2.09	1.68
25.0	12.59	9.82	7.74	6.39	5.40	4.32	3.43	2.74	2.18	1.75
22.5	15.32 *	11.58	8.75	6.97	5.79	4.63	3.63	2.88	2.26	1.80
20.0	18.06 *	13.35	9.75	7.54	6.19	4.94	3.84	3.02	2.34	1.87
17.5	22.56 *	16.94 *	11.75	8.52	6.68	5.28	4.03	3.10	2.35	1.84
15.0	26.99 *	20.55 *	13.87	9.54	7.17	5.62	4.22	3.20	2.38	1.83
12.5	31.22 *	24.20 *	16.41 *	10.70	7.69	5.97	4.42	3.33	2.46	1.89

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CANDELA TABULATION - (Cont.)

10.0	35.37 *	27.86 *	19.08 *	11.91	8.21	6.32	4.62	3.47	2.56	1.98
7.5	39.02 *	31.25 *	21.97 *	13.49	8.80	6.65	4.79	3.54	2.58	1.96
5.0	42.57 *	34.51 *	24.69 *	15.03 *	9.35	6.95	4.95	3.62	2.61	1.95
2.5	45.81 *	37.34 *	26.95 *	16.44 *	9.82	7.20	5.09	3.71	2.67	2.01
0.0	48.95 *	40.03 *	29.06 *	17.82 *	10.27	7.42	5.23	3.81	2.74	2.07
-2.5	51.25 *	42.08 *	30.74 *	18.91 *	10.70	7.63	5.33	3.84	2.74	2.03
-5.0	53.21 *	43.83 *	32.18 *	19.82 *	11.07	7.81	5.42	3.88	2.75	2.02
-7.5	54.10 *	44.69 *	32.87 *	20.19 *	11.26	7.90	5.46	3.92	2.78	2.07
-10.0	54.62 *	45.24 *	33.32 *	20.37 *	11.37	7.97	5.51	3.96	2.82	2.13
-12.5	53.76 *	44.80 *	33.07 *	20.02 *	11.20	7.96	5.50	3.93	2.79	2.08
-15.0	52.70 *	44.10 *	32.55 *	19.48 *	10.97	7.91	5.47	3.91	2.77	2.06
-17.5	51.02 *	42.60 *	31.20 *	18.39 *	10.59	7.74	5.39	3.89	2.77	2.09
-20.0	49.14 *	40.83 *	29.57 *	17.11 *	10.15	7.53	5.30	3.87	2.78	2.15
-22.5	46.12 *	37.77 *	26.69 *	15.62 *	9.73	7.22	5.15	3.78	2.72	2.11
-25.0	43.10 *	34.70 *	23.81 *	14.13 *	9.31	6.92	5.00	3.68	2.66	2.08
-27.5	40.08 *	31.63 *	20.94 *	12.63	8.89	6.61	4.85	3.58	2.60	2.04
-30.0	37.05 *	28.56 *	18.06 *	11.14	8.46	6.31	4.70	3.49	2.54	2.01
-32.5	32.46 *	25.17 *	16.26 *	10.33	7.94	5.98	4.51	3.37	2.49	2.00
-35.0	27.88 *	21.78 *	14.46 *	9.53	7.41	5.66	4.31	3.25	2.45	1.99
-37.5	23.29 *	18.39 *	12.65	8.72	6.88	5.33	4.12	3.13	2.40	1.99
-40.0	18.70 *	15.00 *	10.85	7.92	6.35	5.01	3.92	3.02	2.35	1.98
-42.5	14.12 *	11.61	9.05	7.11	5.83	4.68	3.72	2.90	2.31	1.97
-45.0	10.27	8.75	7.49	6.37	5.33	4.37	3.53	2.79	2.26	1.95
-47.5	8.62	7.48	6.65	5.83	4.93	4.09	3.34	2.67	2.19	1.89
-50.0	7.69	6.74	6.05	5.35	4.57	3.83	3.15	2.55	2.13	1.83
-52.5	6.78	6.01	5.46	4.87	4.21	3.56	2.96	2.43	2.07	1.77
-55.0	5.86	5.27	4.86	4.40	3.85	3.30	2.77	2.32	2.00	1.71
-57.5	4.94	4.53	4.26	3.92	3.48	3.03	2.58	2.20	1.93	1.65
-60.0	4.02	3.80	3.67	3.45	3.12	2.78	2.39	2.08	1.87	1.59
-62.5	3.83	3.64	3.54	3.32	3.00	2.66	2.29	1.99	1.78	1.52
-65.0	3.65	3.49	3.41	3.19	2.88	2.55	2.19	1.90	1.70	1.45
-67.5	3.47	3.33	3.29	3.07	2.76	2.43	2.09	1.81	1.62	1.38
-70.0	3.29	3.18	3.15	2.94	2.64	2.32	1.99	1.71	1.53	1.31
-72.5	3.10	3.02	3.03	2.82	2.52	2.20	1.89	1.62	1.44	1.24
-75.0	2.92	2.87	2.90	2.69	2.40	2.09	1.79	1.53	1.36	1.17
-77.5	2.74	2.71	2.77	2.57	2.28	1.97	1.69	1.44	1.28	1.11
-80.0	2.56	2.56	2.64	2.44	2.16	1.87	1.59	1.35	1.19	1.04
-82.5	2.38	2.40	2.51	2.32	2.05	1.75	1.49	1.26	1.10	0.97
-85.0	2.20	2.25	2.38	2.19	1.93	1.64	1.39	1.17	1.02	0.90
-87.5	2.01	2.10	2.26	2.07	1.81	1.52	1.29	1.07	0.94	0.84
-90.0	1.83	1.95	2.13	1.94	1.69	1.41	1.19	0.99	0.85	0.77

Vert. Angles	**Horizontal Angles**		
	85.0	**87.5**	**90.0**
90.0	0.91	0.45	0.39
87.5	0.93	0.46	0.38
85.0	0.95	0.47	0.37
82.5	0.97	0.48	0.35
80.0	0.98	0.50	0.35
77.5	1.00	0.51	0.34
75.0	1.02	0.53	0.33
72.5	1.04	0.54	0.31
70.0	1.06	0.55	0.30
67.5	1.07	0.56	0.29
65.0	1.09	0.58	0.28

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CANDELA TABULATION - (Cont.)

62.5	1.11	0.59	0.27
60.0	1.13	0.61	0.26
57.5	1.16	0.65	0.24
55.0	1.18	0.70	0.22
52.5	1.21	0.75	0.20
50.0	1.23	0.80	0.17
47.5	1.26	0.85	0.16
45.0	1.28	0.89	0.14
42.5	1.29	0.89	0.12
40.0	1.29	0.89	0.11
37.5	1.30	0.88	0.11
35.0	1.31	0.87	0.10
32.5	1.31	0.87	0.09
30.0	1.32	0.87	0.08
27.5	1.37	0.90	0.08
25.0	1.41	0.95	0.07
22.5	1.46	0.99	0.07
20.0	1.51	1.03	0.07
17.5	1.47	0.99	0.07
15.0	1.45	0.96	0.07
12.5	1.51	1.01	0.07
10.0	1.58	1.07	0.07
7.5	1.54	1.03	0.07
5.0	1.53	1.00	0.07
2.5	1.58	1.03	0.06
0.0	1.64	1.09	0.06
-2.5	1.60	1.04	0.06
-5.0	1.59	1.02	0.06
-7.5	1.63	1.05	0.06
-10.0	1.69	1.12	0.06
-12.5	1.64	1.06	0.06
-15.0	1.62	1.03	0.05
-17.5	1.65	1.06	0.06
-20.0	1.71	1.12	0.06
-22.5	1.68	1.09	0.06
-25.0	1.65	1.06	0.06
-27.5	1.61	1.03	0.05
-30.0	1.58	1.01	0.05
-32.5	1.58	1.02	0.05
-35.0	1.57	1.02	0.05
-37.5	1.57	1.03	0.05
-40.0	1.57	1.04	0.05
-42.5	1.57	1.05	0.05
-45.0	1.56	1.04	0.05
-47.5	1.51	0.97	0.05
-50.0	1.46	0.89	0.05
-52.5	1.40	0.81	0.05
-55.0	1.34	0.72	0.05
-57.5	1.28	0.64	0.05
-60.0	1.23	0.56	0.05
-62.5	1.19	0.52	0.05
-65.0	1.15	0.48	0.06
-67.5	1.11	0.44	0.06
-70.0	1.07	0.41	0.06
-72.5	1.02	0.37	0.07
-75.0	0.99	0.33	0.07

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CANDELA TABULATION - (Cont.)

-77.5	0.94	0.29	0.07
-80.0	0.90	0.26	0.08
-82.5	0.86	0.22	0.08
-85.0	0.82	0.18	0.08
-87.5	0.78	0.15	0.09
-90.0	0.74	0.11	0.09

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IES FLOOD REPORT
PHOTOMETRIC FILENAME : CRL_SINGLE_LAMP.IES

LUMEN TABULATION
Average Of Right And Left Sides
Total Luminaire Lumens (one side of beam only) = 71.52
Total Field Lumens (one side of beam only) = 57.04
* Indicates Values Inside Field Edge

Vert. Angles	Horizontal Angles 0	2.5	5	7.5	10	12.5	15	17.5	20	22.5
90	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
87.5	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
85	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
82.5	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
80	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
77.5	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
75	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
72.5	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
70	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
67.5	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
65	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
62.5	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
60	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
57.5	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
55	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01
52.5	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
50	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
47.5	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
45	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
42.5	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
40	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
37.5	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
35	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
32.5	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02

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LUMENS TABULATION - (Cont.)

30	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
27.5	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
25	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
22.5	0.03 *	0.03 *	0.03 *	0.03 *	0.03 *	0.03 *	0.03 *	0.03 *	0.03 *	0.03 *
20	0.03 *	0.03 *	0.03 *	0.03 *	0.03 *	0.03 *	0.04 *	0.04 *	0.04 *	0.04 *
17.5	0.04 *	0.04 *	0.04 *	0.04 *	0.04 *	0.04 *	0.04 *	0.04 *	0.04 *	0.04 *
15	0.05 *	0.05 *	0.05 *	0.05 *	0.05 *	0.05 *	0.05 *	0.05 *	0.05 *	0.06 *
12.5	0.07 *	0.07 *	0.07 *	0.07 *	0.07 *	0.07 *	0.07 *	0.07 *	0.07 *	0.07 *
10	0.09 *	0.09 *	0.09 *	0.09 *	0.09 *	0.09 *	0.09 *	0.09 *	0.09 *	0.09 *
7.5	0.12 *	0.12 *	0.12 *	0.12 *	0.12 *	0.11 *	0.11 *	0.11 *	0.11 *	0.11 *
5	0.16 *	0.15 *	0.15 *	0.15 *	0.15 *	0.15 *	0.15 *	0.14 *	0.14 *	0.14 *
2.5	0.20 *	0.20 *	0.20 *	0.20 *	0.20 *	0.19 *	0.19 *	0.18 *	0.18 *	0.17 *
0	0.24 *	0.24 *	0.24 *	0.23 *	0.23 *	0.22 *	0.22 *	0.21 *	0.20 *	0.19 *
-2.5	0.26 *	0.26 *	0.26 *	0.25 *	0.25 *	0.24 *	0.23 *	0.23 *	0.22 *	0.21 *
-5	0.27 *	0.26 *	0.26 *	0.26 *	0.25 *	0.25 *	0.24 *	0.23 *	0.22 *	0.21 *
-7.5	0.26 *	0.26 *	0.26 *	0.25 *	0.25 *	0.24 *	0.23 *	0.23 *	0.22 *	0.21 *
-10	0.24 *	0.24 *	0.24 *	0.23 *	0.23 *	0.22 *	0.22 *	0.21 *	0.20 *	0.20 *
-12.5	0.21 *	0.21 *	0.21 *	0.20 *	0.20 *	0.20 *	0.19 *	0.19 *	0.18 *	0.18 *
-15	0.17 *	0.17 *	0.17 *	0.17 *	0.17 *	0.16 *	0.16 *	0.16 *	0.16 *	0.15 *
-17.5	0.12 *	0.12 *	0.13 *	0.13 *	0.13 *	0.13 *	0.13 *	0.13 *	0.13 *	0.13 *
-20	0.09 *	0.09 *	0.09 *	0.10 *	0.10 *	0.10 *	0.10 *	0.10 *	0.10 *	0.10 *
-22.5	0.08 *	0.08 *	0.08 *	0.08 *	0.08 *	0.08 *	0.08 *	0.08 *	0.08 *	0.08 *
-25	0.06 *	0.06 *	0.06 *	0.06 *	0.06 *	0.06 *	0.06 *	0.06 *	0.06 *	0.06 *
-27.5	0.04 *	0.04 *	0.04 *	0.04 *	0.04 *	0.04 *	0.04 *	0.04 *	0.04 *	0.05 *
-30	0.03 *	0.03 *	0.03 *	0.03 *	0.03 *	0.03 *	0.03 *	0.03 *	0.03 *	0.03 *
-32.5	0.03 *	0.03 *	0.03 *	0.03 *	0.03 *	0.03 *	0.03 *	0.03 *	0.03 *	0.03 *
-35	0.03 *	0.03 *	0.03 *	0.03 *	0.03 *	0.03 *	0.03 *	0.03 *	0.03 *	0.03 *
-37.5	0.02	0.02	0.02	0.02	0.02	0.02	0.02 *	0.02 *	0.02 *	0.03 *

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LUMENS TABULATION - (Cont.)

-40	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
-42.5	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
-45	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
-47.5	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
-50	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
-52.5	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
-55	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01
-57.5	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01
-60	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01
-62.5	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01
-65	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
-67.5	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
-70	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
-72.5	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
-75	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
-77.5	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
-80	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
-82.5	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
-85	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
-87.5	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
-90										
Total	3.70	3.68	3.66	3.63	3.59	3.54	3.48	3.42	3.36	3.31

Vert. Angles	**Horizontal Angles**									
	25	**27.5**	**30**	**32.5**	**35**	**37.5**	**40**	**42.5**	**45**	**47.5**
90	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00
87.5	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00
85	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00
82.5	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00
80	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00

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LUMENS TABULATION - (Cont.)

77.5	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
75	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
72.5	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
70	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
67.5	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
65	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
62.5	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
60	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
57.5	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
55	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
52.5	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
50	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
47.5	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01
45	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01
42.5	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01
40	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01
37.5	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01
35	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01
32.5	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
30	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
27.5	0.03	0.03	0.03 *	0.03 *	0.02	0.02	0.02	0.02	0.02	0.02
25	0.03 *	0.03 *	0.03 *	0.03 *	0.03 *	0.03 *	0.03 *	0.03 *	0.03 *	0.02 *
22.5	0.03 *	0.03 *	0.03 *	0.03 *	0.03 *	0.03 *	0.03 *	0.03 *	0.03 *	0.03 *
20	0.04 *	0.04 *	0.04 *	0.04 *	0.04 *	0.04 *	0.03 *	0.03 *	0.03 *	0.03 *
17.5	0.04 *	0.04 *	0.04 *	0.04 *	0.04 *	0.04 *	0.04 *	0.04 *	0.04 *	0.04 *
15	0.06 *	0.06 *	0.05 *	0.05 *	0.05 *	0.05 *	0.05 *	0.05 *	0.04 *	0.04 *
12.5	0.07 *	0.07 *	0.07 *	0.07 *	0.06 *	0.06 *	0.06 *	0.05 *	0.05 *	0.05 *
10	0.09 *	0.08 *	0.08 *	0.08 *	0.08 *	0.07 *	0.07 *	0.06 *	0.06 *	0.06 *

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LUMENS TABULATION - (Cont.)

7.5	0.11 *	0.11 *	0.10 *	0.10 *	0.09 *	0.09 *	0.08 *	0.07 *	0.07 *	0.06 *
5	0.13 *	0.13 *	0.12 *	0.12 *	0.11 *	0.10 *	0.09 *	0.08 *	0.08 *	0.07 *
2.5	0.16 *	0.16 *	0.15 *	0.14 *	0.13 *	0.12 *	0.11 *	0.10 *	0.09 *	0.08 *
0	0.19 *	0.18 *	0.17 *	0.16 *	0.14 *	0.13 *	0.12 *	0.10 *	0.09 *	0.08 *
-2.5	0.20 *	0.19 *	0.18 *	0.17 *	0.15 *	0.14 *	0.12 *	0.11 *	0.10 *	0.09 *
-5	0.20 *	0.19 *	0.18 *	0.17 *	0.16 *	0.14 *	0.13 *	0.11 *	0.10 *	0.09 *
-7.5	0.20 *	0.19 *	0.18 *	0.17 *	0.15 *	0.14 *	0.13 *	0.11 *	0.10 *	0.09 *
-10	0.19 *	0.18 *	0.17 *	0.16 *	0.15 *	0.14 *	0.12 *	0.11 *	0.10 *	0.09 *
-12.5	0.17 *	0.16 *	0.15 *	0.14 *	0.13 *	0.13 *	0.11 *	0.10 *	0.09 *	0.08 *
-15	0.15 *	0.14 *	0.14 *	0.13 *	0.12 *	0.11 *	0.11 *	0.10 *	0.09 *	0.08 *
-17.5	0.13 *	0.12 *	0.12 *	0.11 *	0.11 *	0.10 *	0.09 *	0.09 *	0.08 *	0.07 *
-20	0.10 *	0.10 *	0.10 *	0.10 *	0.09 *	0.09 *	0.08 *	0.08 *	0.07 *	0.07 *
-22.5	0.08 *	0.08 *	0.08 *	0.08 *	0.08 *	0.07 *	0.07 *	0.07 *	0.06 *	0.06 *
-25	0.07 *	0.06 *	0.06 *	0.06 *	0.06 *	0.06 *	0.06 *	0.06 *	0.06 *	0.05 *
-27.5	0.05 *	0.05 *	0.05 *	0.05 *	0.05 *	0.05 *	0.05 *	0.05 *	0.05 *	0.05 *
-30	0.03 *	0.03 *	0.04 *	0.04 *	0.04 *	0.04 *	0.04 *	0.04 *	0.04 *	0.04 *
-32.5	0.03 *	0.03 *	0.03 *	0.03 *	0.03 *	0.03 *	0.03 *	0.03 *	0.03 *	0.04 *
-35	0.03 *	0.03 *	0.03 *	0.03 *	0.03 *	0.03 *	0.03 *	0.03 *	0.03 *	0.03 *
-37.5	0.03 *	0.03 *	0.03 *	0.03 *	0.02 *	0.02 *	0.02 *	0.03 *	0.03 *	0.03 *
-40	0.02 *	0.02 *	0.02 *	0.02 *	0.02 *	0.02 *	0.02 *	0.02 *	0.02 *	0.02 *
-42.5	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02 *
-45	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01
-47.5	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01
-50	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01
-52.5	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
-55	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
-57.5	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
-60	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

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LUMENS TABULATION - (Cont.)

-62.5	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
-65	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
-67.5	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
-70	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
-72.5	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
-75	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
-77.5	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
-80	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00
-82.5	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00
-85	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00
-87.5	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00
-90										
Total	3.25	3.16	3.04	2.90	2.74	2.57	2.40	2.22	2.06	1.89

Vert. Angles	**Horizontal Angles**									
	50	**52.5**	**55**	**57.5**	**60**	**62.5**	**65**	**67.5**	**70**	**72.5**
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
77.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
72.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
62.5	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
57.5	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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LUMENS TABULATION - (Cont.)

55	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
52.5	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
47.5	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
42.5	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00
40	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00
37.5	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00
35	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00
32.5	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00
30	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00
27.5	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.00	0.00
25	0.02 *	0.02 *	0.02 *	0.02 *	0.02	0.01	0.01	0.01	0.00	0.00
22.5	0.03 *	0.03 *	0.03 *	0.02 *	0.02 *	0.01	0.01	0.01	0.00	0.00
20	0.03 *	0.03 *	0.03 *	0.03 *	0.02 *	0.02	0.01	0.01	0.00	0.00
17.5	0.04 *	0.04 *	0.04 *	0.03 *	0.03 *	0.02 *	0.01	0.01	0.01	0.00
15	0.04 *	0.04 *	0.04 *	0.04 *	0.03 *	0.02 *	0.01	0.01	0.01	0.00
12.5	0.05 *	0.05 *	0.05 *	0.04 *	0.04 *	0.03 *	0.02 *	0.01	0.01	0.00
10	0.05 *	0.05 *	0.05 *	0.05 *	0.04 *	0.03 *	0.02 *	0.01	0.01	0.00
7.5	0.06 *	0.06 *	0.05 *	0.05 *	0.04 *	0.03 *	0.02 *	0.01	0.01	0.00
5	0.06 *	0.06 *	0.06 *	0.05 *	0.04 *	0.03 *	0.02 *	0.01	0.01	0.00
2.5	0.07 *	0.07 *	0.06 *	0.05 *	0.05 *	0.03 *	0.02 *	0.01	0.01	0.00
0	0.07 *	0.07 *	0.06 *	0.06 *	0.05 *	0.04 *	0.02 *	0.01 *	0.01	0.00
-2.5	0.08 *	0.07 *	0.07 *	0.06 *	0.05 *	0.04 *	0.02 *	0.01 *	0.01	0.00
-5	0.08 *	0.07 *	0.07 *	0.06 *	0.05 *	0.04 *	0.03 *	0.01 *	0.01	0.00
-7.5	0.08 *	0.07 *	0.07 *	0.06 *	0.05 *	0.04 *	0.03 *	0.01 *	0.01	0.00
-10	0.08 *	0.07 *	0.07 *	0.06 *	0.05 *	0.04 *	0.02 *	0.01 *	0.01	0.00
-12.5	0.08 *	0.07 *	0.07 *	0.06 *	0.05 *	0.04 *	0.02 *	0.01 *	0.01	0.00

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LUMENS TABULATION - (Cont.)

-15	0.07 *	0.07 *	0.06 *	0.06 *	0.05 *	0.03 *	0.02 *	0.01 *	0.01	0.00
-17.5	0.07 *	0.06 *	0.06 *	0.05 *	0.04 *	0.03 *	0.02 *	0.01	0.01	0.00
-20	0.06 *	0.06 *	0.06 *	0.05 *	0.04 *	0.03 *	0.02 *	0.01	0.01	0.00
-22.5	0.06 *	0.05 *	0.05 *	0.05 *	0.04 *	0.03 *	0.02 *	0.01	0.01	0.00
-25	0.05 *	0.05 *	0.05 *	0.04 *	0.03 *	0.02 *	0.02 *	0.01	0.01	0.00
-27.5	0.05 *	0.05 *	0.04 *	0.04 *	0.03 *	0.02 *	0.01 *	0.01	0.00	0.00
-30	0.04 *	0.04 *	0.04 *	0.03 *	0.03 *	0.02 *	0.01	0.01	0.00	0.00
-32.5	0.04 *	0.04 *	0.03 *	0.03 *	0.02 *	0.02 *	0.01	0.01	0.00	0.00
-35	0.03 *	0.03 *	0.03 *	0.02 *	0.02 *	0.01 *	0.01	0.01	0.00	0.00
-37.5	0.03 *	0.03 *	0.02 *	0.02 *	0.02 *	0.01 *	0.01	0.01	0.00	0.00
-40	0.02 *	0.02 *	0.02 *	0.02 *	0.01 *	0.01	0.01	0.00	0.00	0.00
-42.5	0.02 *	0.02 *	0.01 *	0.01	0.01	0.01	0.01	0.00	0.00	0.00
-45	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00
-47.5	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00
-50	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00
-52.5	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00
-55	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
-57.5	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-60	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-62.5	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-65	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-67.5	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-72.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-77.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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LUMENS TABULATION - (Cont.)

-85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-90										
Total	1.75	1.64	1.53	1.36	1.14	0.87	0.59	0.38	0.24	0.16

Vert. Angles	**Horizontal Angles**						
	75	**77.5**	**80**	**82.5**	**85**	**87.5**	**90**	**Total**
90	0.00	0.00	0.00	0.00	0.00	0.00	0.18
87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.19
85	0.00	0.00	0.00	0.00	0.00	0.00	0.19
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.20
80	0.00	0.00	0.00	0.00	0.00	0.00	0.21
77.5	0.00	0.00	0.00	0.00	0.00	0.00	0.22
75	0.00	0.00	0.00	0.00	0.00	0.00	0.23
72.5	0.00	0.00	0.00	0.00	0.00	0.00	0.24
70	0.00	0.00	0.00	0.00	0.00	0.00	0.25
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.25
65	0.00	0.00	0.00	0.00	0.00	0.00	0.26
62.5	0.00	0.00	0.00	0.00	0.00	0.00	0.27
60	0.00	0.00	0.00	0.00	0.00	0.00	0.28
57.5	0.00	0.00	0.00	0.00	0.00	0.00	0.30
55	0.00	0.00	0.00	0.00	0.00	0.00	0.31
52.5	0.00	0.00	0.00	0.00	0.00	0.00	0.32
50	0.00	0.00	0.00	0.00	0.00	0.00	0.34
47.5	0.00	0.00	0.00	0.00	0.00	0.00	0.35
45	0.00	0.00	0.00	0.00	0.00	0.00	0.37
42.5	0.00	0.00	0.00	0.00	0.00	0.00	0.38
40	0.00	0.00	0.00	0.00	0.00	0.00	0.40
37.5	0.00	0.00	0.00	0.00	0.00	0.00	0.42
35	0.00	0.00	0.00	0.00	0.00	0.00	0.44

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LUMENS TABULATION - (Cont.)

32.5	0.00	0.00	0.00	0.00	0.00	0.00	0.46
30	0.00	0.00	0.00	0.00	0.00	0.00	0.51
27.5	0.00	0.00	0.00	0.00	0.00	0.00	0.60
25	0.00	0.00	0.00	0.00	0.00	0.00	0.68
22.5	0.00	0.00	0.00	0.00	0.00	0.00	0.76
20	0.00	0.00	0.00	0.00	0.00	0.00	0.89
17.5	0.00	0.00	0.00	0.00	0.00	0.00	1.08
15	0.00	0.00	0.00	0.00	0.00	0.00	1.30
12.5	0.00	0.00	0.00	0.00	0.00	0.00	1.57
10	0.00	0.00	0.00	0.00	0.00	0.00	1.91
7.5	0.00	0.00	0.00	0.00	0.00	0.00	2.36
5	0.00	0.00	0.00	0.00	0.00	0.00	2.89
2.5	0.00	0.00	0.00	0.00	0.00	0.00	3.52
0	0.00	0.00	0.00	0.00	0.00	0.00	4.00
-2.5	0.00	0.00	0.00	0.00	0.00	0.00	4.26
-5	0.00	0.00	0.00	0.00	0.00	0.00	4.36
-7.5	0.00	0.00	0.00	0.00	0.00	0.00	4.30
-10	0.00	0.00	0.00	0.00	0.00	0.00	4.06
-12.5	0.00	0.00	0.00	0.00	0.00	0.00	3.66
-15	0.00	0.00	0.00	0.00	0.00	0.00	3.19
-17.5	0.00	0.00	0.00	0.00	0.00	0.00	2.66
-20	0.00	0.00	0.00	0.00	0.00	0.00	2.21
-22.5	0.00	0.00	0.00	0.00	0.00	0.00	1.86
-25	0.00	0.00	0.00	0.00	0.00	0.00	1.51
-27.5	0.00	0.00	0.00	0.00	0.00	0.00	1.16
-30	0.00	0.00	0.00	0.00	0.00	0.00	0.93
-32.5	0.00	0.00	0.00	0.00	0.00	0.00	0.84
-35	0.00	0.00	0.00	0.00	0.00	0.00	0.74

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LUMENS TABULATION - (Cont.)

-37.5	0.00	0.00	0.00	0.00	0.00	0.00	0.65
-40	0.00	0.00	0.00	0.00	0.00	0.00	0.55
-42.5	0.00	0.00	0.00	0.00	0.00	0.00	0.46
-45	0.00	0.00	0.00	0.00	0.00	0.00	0.41
-47.5	0.00	0.00	0.00	0.00	0.00	0.00	0.38
-50	0.00	0.00	0.00	0.00	0.00	0.00	0.36
-52.5	0.00	0.00	0.00	0.00	0.00	0.00	0.34
-55	0.00	0.00	0.00	0.00	0.00	0.00	0.32
-57.5	0.00	0.00	0.00	0.00	0.00	0.00	0.30
-60	0.00	0.00	0.00	0.00	0.00	0.00	0.29
-62.5	0.00	0.00	0.00	0.00	0.00	0.00	0.28
-65	0.00	0.00	0.00	0.00	0.00	0.00	0.27
-67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.26
-70	0.00	0.00	0.00	0.00	0.00	0.00	0.26
-72.5	0.00	0.00	0.00	0.00	0.00	0.00	0.25
-75	0.00	0.00	0.00	0.00	0.00	0.00	0.24
-77.5	0.00	0.00	0.00	0.00	0.00	0.00	0.23
-80	0.00	0.00	0.00	0.00	0.00	0.00	0.22
-82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.21
-85	0.00	0.00	0.00	0.00	0.00	0.00	0.21
-87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.20
-90							
Total	0.11	0.07	0.04	0.03	0.01	0.00	71.52

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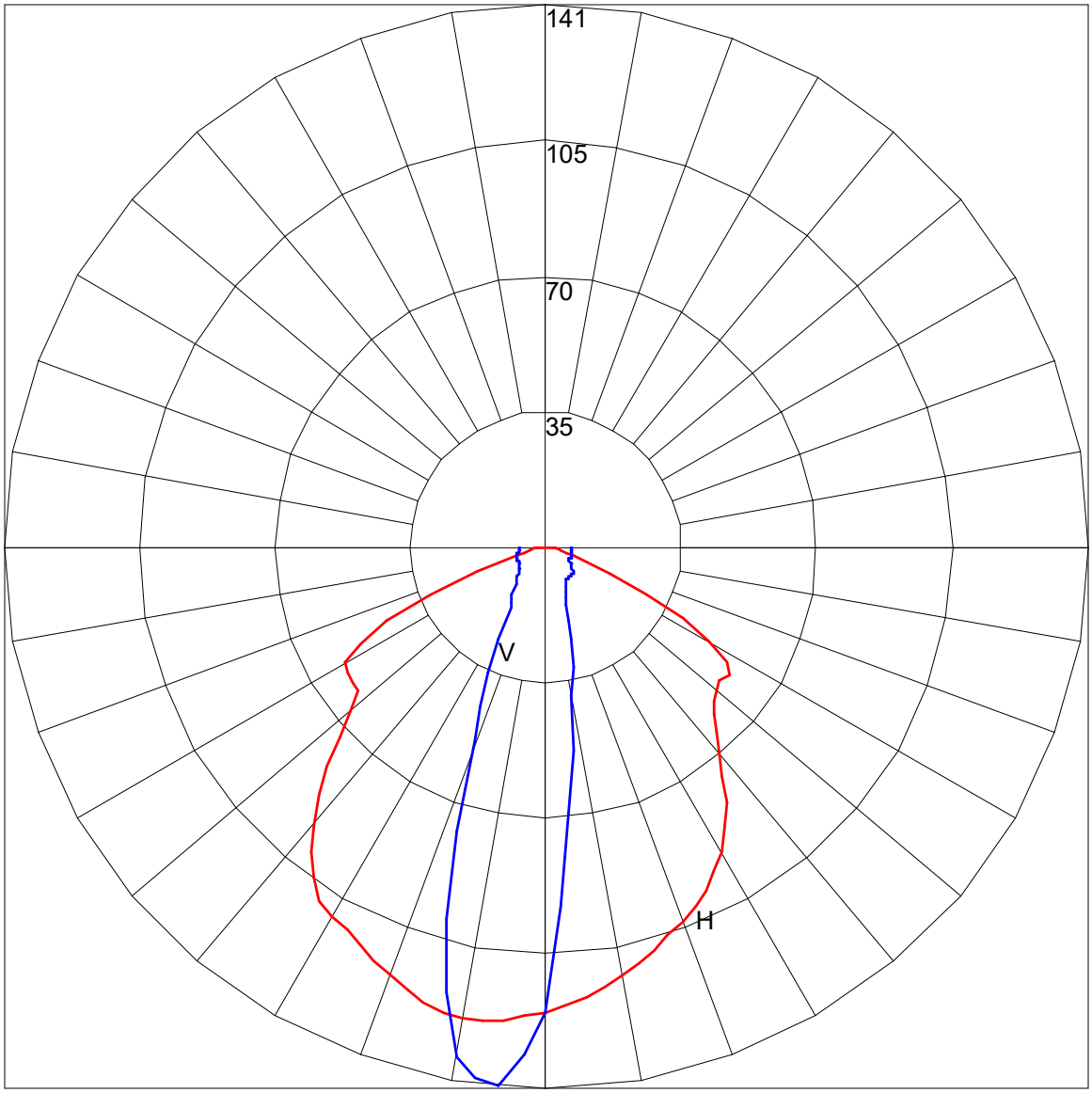
IES FLOOD REPORT
PHOTOMETRIC FILENAME : CRL_SINGLE_LAMP.IES

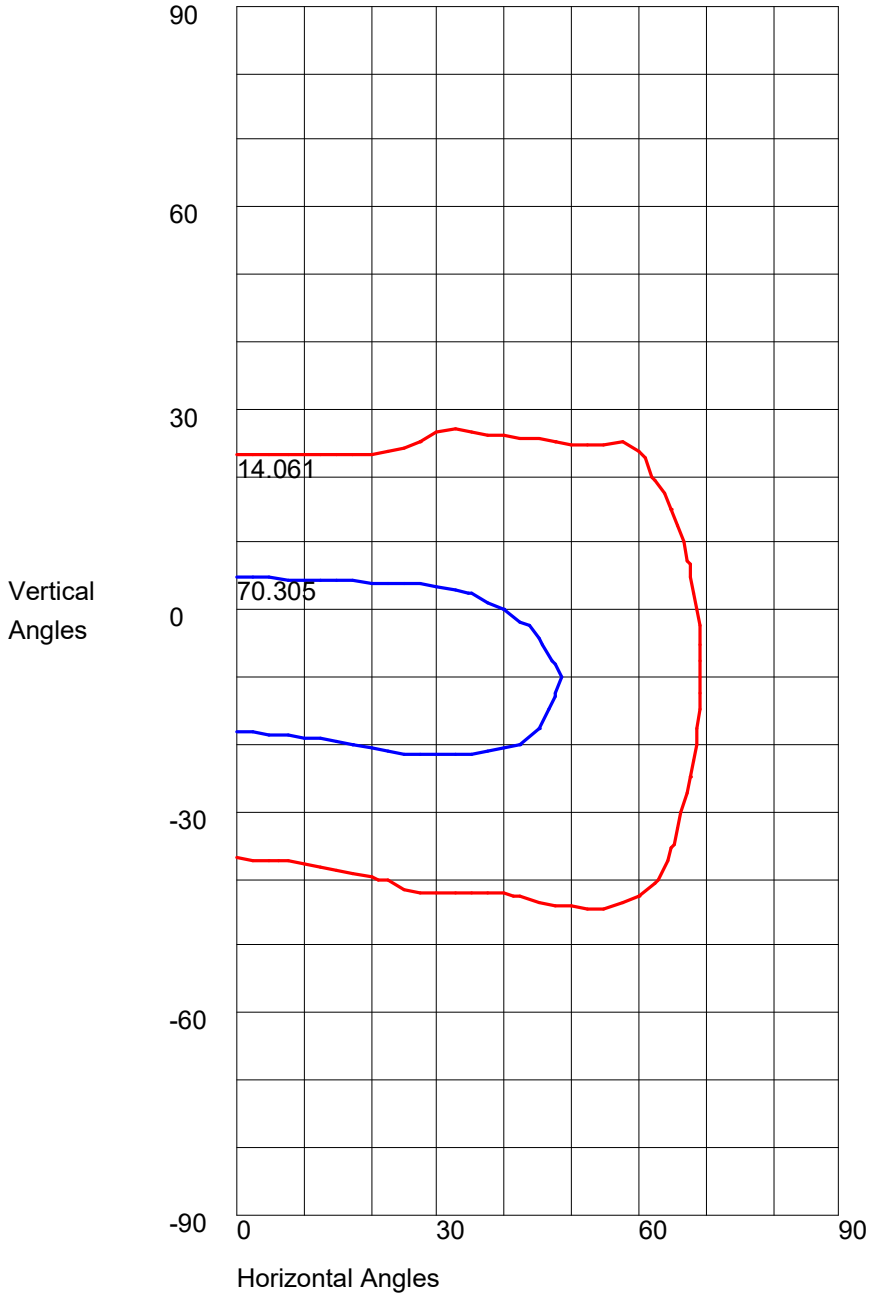
AXIAL CANDELA DISPLAY



Maximum Candela = 140.61 Located At Horizontal Angle =-5, Vertical Angle =-5
H - Horizontal Axial Candela
V - Vertical Axial Candela

IES FLOOD REPORT
PHOTOMETRIC FILENAME : CRL_SINGLE_LAMP.IES

ISOCANDELA CURVES



Maximum Candela = 140.61 Located At Horizontal Angle =-5, Vertical Angle =-5
50% Maximum Candela = 70.305
10% Maximum Candela = 14.061

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