

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CRV-CSAHO120 OR 277V_1112024.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 2019092101
[TESTLAB]
[TESTDATE] 2019-09-21
[ISSUEDATE] 2019-09-21 16:01:56
[LAMPPOSITION] 0,0
[OTHER]
[MANUFAC] BEGHELLI
[LUMINAIRE] CURVA COMBO CRV-CSAHO120/277V
[LAMP] REM-800-HO (ONE HEAD ONLY)
[OTHER]

Note: Candela values converted from Type-B to Type-C

CHARACTERISTICS

Lumens Per Lamp	299.61 (1 lamp)
Total Lamp Lumens	299.61
Luminaire Lumens	301
Total Luminaire Efficiency	101 %
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	2.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.46
Spacing Criterion (90-270)	0.48
Spacing Criterion (Diagonal)	0.52
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.01 m (Diameter)
Luminous Width (90-270)	0.01 m (Diameter)
Luminous Height	0.00 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	194926	143809	133370
55	116048	73667	71892
65	60832	34632	27103
75	50649	34913	2459
85	102218	86155	2921

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CANDELA TABULATION

	<u>0.0</u>	<u>2.5</u>	<u>5.0</u>	<u>7.5</u>	<u>10.0</u>	<u>12.5</u>	<u>15.0</u>	<u>17.5</u>	<u>20.0</u>	<u>22.5</u>
0.0	907.25	907.25	907.25	907.25	907.25	907.25	907.25	907.25	907.25	907.25
2.5	864.30	863.78	863.35	863.03	862.82	862.72	862.74	862.87	863.12	863.27
5.0	803.59	802.76	802.19	801.87	801.77	801.46	800.65	800.03	799.59	798.36
7.5	710.42	709.18	708.58	708.54	707.93	707.82	707.87	708.64	709.33	710.85
10.0	605.73	606.06	607.09	607.32	607.49	607.48	606.67	606.19	604.39	602.84
12.5	503.65	502.29	501.49	499.78	498.18	495.73	496.16	491.35	491.17	491.53
15.0	401.69	401.12	400.89	400.57	400.46	400.59	400.81	401.30	402.47	402.33
17.5	299.91	299.59	299.41	299.29	299.08	298.46	297.83	297.06	294.68	294.06
20.0	197.40	196.46	196.27	196.84	198.16	200.14	202.65	204.74	208.75	212.42
22.5	158.97	158.53	157.79	157.23	156.42	155.90	153.61	150.83	147.65	144.19
25.0	119.81	119.27	118.60	117.76	116.73	115.35	113.55	111.65	111.07	110.57
27.5	80.87	80.61	80.52	80.61	80.88	81.26	81.66	82.03	83.44	81.57
30.0	41.91	42.24	42.96	43.97	45.18	46.53	47.85	49.02	49.93	51.25
32.5	36.60	36.41	36.04	35.48	34.77	34.03	33.30	32.47	31.58	30.70
35.0	31.27	31.13	30.88	30.47	30.03	29.54	29.13	27.94	26.77	25.61
37.5	25.98	25.84	25.58	25.17	24.69	24.10	23.36	22.44	21.69	21.28
40.0	20.59	20.36	20.06	19.75	19.49	19.23	18.89	18.51	18.13	17.69
42.5	15.34	15.17	15.01	14.84	14.88	14.64	14.42	14.11	13.82	13.26
45.0	10.83	10.60	10.37	10.17	10.07	10.00	9.90	10.06	10.22	10.27
47.5	8.77	8.56	8.30	8.09	7.96	7.87	7.77	7.65	7.63	7.59
50.0	7.67	7.46	7.26	7.05	6.92	6.82	6.69	6.54	6.39	6.27
52.5	6.39	6.23	6.03	5.88	5.83	5.73	5.64	5.57	5.50	5.43
55.0	5.23	5.09	4.96	4.86	4.81	4.77	4.74	4.64	4.54	4.43
57.5	4.04	3.94	3.85	3.79	3.75	3.71	3.66	3.61	3.56	3.53
60.0	2.82	2.76	2.72	2.71	2.71	2.71	2.71	2.71	2.71	2.72
62.5	2.43	2.38	2.34	2.31	2.27	2.23	2.18	2.11	2.03	1.94
65.0	2.02	1.98	1.95	1.93	1.91	1.87	1.83	1.77	1.73	1.68
67.5	1.61	1.59	1.57	1.57	1.56	1.55	1.53	1.49	1.48	1.44
70.0	1.19	1.19	1.20	1.21	1.22	1.21	1.20	1.19	1.19	1.17
72.5	1.11	1.11	1.11	1.12	1.10	1.09	1.06	1.04	1.03	1.01
75.0	1.03	1.03	1.03	1.03	1.02	1.01	0.99	0.97	0.97	0.94
77.5	0.95	0.95	0.95	0.95	0.94	0.93	0.91	0.90	0.88	0.86
80.0	0.86	0.86	0.86	0.86	0.86	0.85	0.83	0.82	0.81	0.80
82.5	0.78	0.78	0.78	0.78	0.78	0.78	0.76	0.76	0.75	0.74
85.0	0.70	0.70	0.70	0.70	0.69	0.69	0.69	0.68	0.67	0.66
87.5	0.62	0.62	0.62	0.62	0.62	0.62	0.61	0.61	0.61	0.60
90.0	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54

Vert. Angles **Horizontal Angles**

	<u>25.0</u>	<u>27.5</u>	<u>30.0</u>	<u>32.5</u>	<u>35.0</u>	<u>37.5</u>	<u>40.0</u>	<u>42.5</u>	<u>45.0</u>	<u>47.5</u>
0.0	907.25	907.25	907.25	907.25	907.25	907.25	907.25	907.25	907.25	907.25
2.5	863.74	863.96	864.32	864.81	866.56	866.03	866.14	866.29	866.48	866.70
5.0	798.59	797.53	796.60	795.80	797.16	794.55	794.33	794.53	795.14	796.17
7.5	712.48	714.31	717.00	720.44	723.60	726.27	723.79	721.18	718.04	715.07
10.0	600.99	598.88	596.64	594.49	592.09	590.62	594.76	599.97	606.08	612.54
12.5	492.41	493.85	495.88	498.37	501.61	504.47	500.36	495.53	490.73	486.02
15.0	399.84	396.74	392.78	388.33	383.60	378.72	383.27	388.44	394.10	400.43
17.5	292.76	295.05	298.27	301.67	304.13	311.08	305.20	299.23	292.60	285.81
20.0	216.32	219.06	218.21	216.88	214.85	211.89	215.41	220.81	225.98	227.63
22.5	140.38	136.27	138.56	144.96	150.88	156.31	156.08	152.41	148.97	150.57
25.0	110.13	109.75	109.27	104.61	99.36	93.16	95.33	102.00	107.69	107.01
27.5	79.94	77.84	75.18	73.78	73.90	73.95	72.28	67.73	63.10	65.63
30.0	52.07	53.59	54.60	54.98	52.54	50.17	48.32	49.18	49.67	46.43

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CANDELA TABULATION - (Cont.)

32.5	29.95	31.75	32.38	32.64	33.76	35.43	36.50	34.33	32.19	32.44
35.0	24.39	22.76	21.92	21.14	21.04	21.89	22.16	23.27	24.11	23.40
37.5	20.53	19.76	18.56	17.34	16.27	15.86	15.60	15.62	15.62	16.15
40.0	16.58	15.48	14.59	14.32	14.06	13.49	12.49	11.80	11.75	11.71
42.5	12.82	12.57	12.37	11.97	11.24	10.49	10.38	10.32	9.63	9.21
45.0	10.21	9.95	9.60	9.18	8.99	8.94	8.60	8.10	7.99	8.11
47.5	7.48	7.31	7.38	7.42	7.33	7.02	6.74	6.81	6.78	6.54
50.0	6.16	6.04	5.90	5.71	5.53	5.53	5.62	5.53	5.38	5.46
52.5	5.30	5.09	4.84	4.69	4.61	4.55	4.40	4.30	4.38	4.32
55.0	4.29	4.16	4.08	4.03	3.87	3.67	3.60	3.56	3.32	3.19
57.5	3.49	3.43	3.33	3.20	3.07	3.03	3.04	2.78	2.57	2.60
60.0	2.66	2.60	2.54	2.50	2.48	2.47	2.31	2.11	2.13	2.09
62.5	1.86	1.85	1.88	1.90	1.86	1.78	1.66	1.65	1.65	1.57
65.0	1.64	1.58	1.51	1.40	1.25	1.20	1.20	1.19	1.15	1.15
67.5	1.39	1.34	1.28	1.20	1.12	1.04	0.93	0.80	0.72	0.77
70.0	1.14	1.13	1.11	1.07	1.02	0.93	0.84	0.76	0.69	0.59
72.5	0.98	0.96	0.95	0.92	0.89	0.85	0.80	0.75	0.70	0.61
75.0	0.92	0.89	0.87	0.85	0.82	0.80	0.78	0.76	0.71	0.66
77.5	0.84	0.83	0.81	0.79	0.77	0.76	0.74	0.71	0.69	0.66
80.0	0.78	0.77	0.76	0.75	0.73	0.71	0.69	0.67	0.65	0.64
82.5	0.72	0.72	0.70	0.69	0.67	0.66	0.64	0.63	0.62	0.61
85.0	0.66	0.65	0.65	0.64	0.62	0.62	0.61	0.60	0.59	0.59
87.5	0.60	0.60	0.59	0.59	0.59	0.58	0.57	0.57	0.57	0.56
90.0	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54

Vert. Horizontal Angles
Angles

	50.0	52.5	55.0	57.5	60.0	62.5	65.0	67.5	70.0	72.5
0.0	907.25	907.25	907.25	907.25	907.25	907.25	907.25	907.25	907.25	907.25
2.5	866.14	867.07	867.29	867.29	867.34	867.45	867.61	867.82	868.10	868.44
5.0	797.60	798.70	801.31	803.44	805.97	808.90	812.22	813.75	812.37	811.15
7.5	712.26	708.02	706.83	704.67	706.49	710.43	715.07	718.06	726.22	732.60
10.0	620.10	626.23	628.11	622.06	616.30	610.85	605.74	605.19	613.32	622.39
12.5	481.47	487.12	496.92	507.52	518.98	524.64	516.58	508.81	501.41	497.27
15.0	400.98	394.30	387.29	380.28	384.23	398.82	412.35	420.45	409.99	400.34
17.5	292.16	299.66	307.50	305.49	296.73	288.21	292.77	306.85	321.42	314.59
20.0	219.83	212.00	208.98	217.42	225.88	223.33	213.42	206.50	219.80	233.14
22.5	156.74	162.57	157.01	149.01	147.09	155.26	161.98	152.96	144.63	155.59
25.0	103.12	100.93	106.93	113.22	106.05	99.43	105.15	111.85	106.42	99.74
27.5	71.53	72.30	68.78	68.09	74.06	74.06	68.61	70.82	77.74	71.12
30.0	42.58	44.43	48.59	47.21	44.73	48.42	49.64	45.68	47.30	50.94
32.5	33.22	31.05	28.20	31.03	32.63	30.29	31.90	33.46	30.37	32.69
35.0	21.77	22.19	22.54	20.09	20.65	22.54	20.83	21.86	22.40	20.37
37.5	16.93	16.01	15.04	15.85	14.97	14.69	16.05	14.61	15.52	15.10
40.0	11.57	12.04	12.26	11.53	11.84	11.43	10.99	11.69	10.82	11.82
42.5	9.34	9.37	9.35	9.75	9.18	9.20	9.08	8.98	9.16	8.91
45.0	7.82	7.79	8.01	7.67	7.86	7.63	7.68	7.67	7.72	7.58
47.5	6.60	6.68	6.45	6.72	6.48	6.56	6.42	6.56	6.52	6.74
50.0	5.44	5.30	5.54	5.38	5.48	5.36	5.41	5.31	5.63	5.39
52.5	4.23	4.45	4.37	4.41	4.38	4.30	4.20	4.35	4.13	4.46
55.0	3.41	3.42	3.44	3.53	3.35	3.38	3.20	3.17	3.44	3.29
57.5	2.57	2.54	2.73	2.55	2.68	2.44	2.53	2.44	2.38	2.52
60.0	1.97	2.01	1.94	1.96	1.93	1.94	1.82	1.91	1.90	1.84
62.5	1.57	1.55	1.45	1.50	1.36	1.44	1.39	1.33	1.38	1.43
65.0	1.19	1.12	1.13	1.08	1.04	0.96	1.00	0.91	0.88	0.90
67.5	0.77	0.80	0.83	0.78	0.78	0.65	0.61	0.59	0.55	0.51

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CANDELA TABULATION - (Cont.)

70.0	0.49	0.51	0.55	0.54	0.56	0.46	0.43	0.36	0.31	0.32
72.5	0.55	0.48	0.41	0.36	0.38	0.35	0.32	0.26	0.23	0.22
75.0	0.61	0.55	0.49	0.42	0.35	0.27	0.25	0.22	0.20	0.19
77.5	0.65	0.63	0.58	0.52	0.46	0.36	0.30	0.21	0.19	0.18
80.0	0.62	0.61	0.59	0.57	0.55	0.49	0.42	0.34	0.25	0.16
82.5	0.60	0.59	0.57	0.56	0.54	0.51	0.49	0.47	0.42	0.34
85.0	0.58	0.57	0.56	0.55	0.53	0.52	0.50	0.49	0.47	0.45
87.5	0.56	0.55	0.55	0.54	0.54	0.53	0.52	0.51	0.50	0.49
90.0	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54

Vert. Angles **Horizontal Angles**

	<u>75.0</u>	<u>77.5</u>	<u>80.0</u>	<u>82.5</u>	<u>85.0</u>	<u>87.5</u>	<u>90.0</u>	<u>92.5</u>	<u>95.0</u>	<u>97.5</u>
0.0	907.25	907.25	907.25	907.25	907.25	907.25	907.25	907.25	907.25	907.25
2.5	868.86	869.35	869.91	870.57	871.31	872.14	873.07	873.48	873.99	874.58
5.0	810.12	809.28	806.62	807.08	807.53	807.99	808.45	810.50	812.55	814.59
7.5	738.07	735.18	732.71	730.66	729.07	727.94	727.28	731.74	736.66	742.04
10.0	632.38	643.27	645.37	637.46	635.44	633.41	631.38	638.49	645.59	652.66
12.5	512.89	525.99	540.15	540.85	533.81	527.77	522.76	533.97	546.20	559.42
15.0	392.55	407.00	422.61	439.52	427.52	420.91	414.28	427.34	440.38	458.87
17.5	302.83	295.54	311.92	329.22	331.94	322.80	314.95	329.64	345.64	349.43
20.0	229.16	218.88	220.18	236.20	244.98	237.67	230.34	244.11	257.85	254.86
22.5	167.57	158.71	151.39	163.11	179.03	170.87	163.38	176.53	189.20	178.83
25.0	109.54	115.60	107.46	108.58	120.55	117.83	111.25	122.06	128.81	120.10
27.5	68.95	76.73	74.80	70.19	79.45	80.55	75.05	83.79	85.57	78.82
30.0	46.18	48.46	52.19	47.42	51.79	53.88	49.76	56.22	56.02	53.58
32.5	33.09	30.45	34.41	32.61	33.59	36.47	33.11	38.02	36.38	36.88
35.0	22.95	20.99	22.09	22.45	21.66	24.21	21.88	25.38	23.64	25.71
37.5	14.97	15.57	14.71	16.01	14.75	16.85	15.29	17.68	15.95	18.14
40.0	10.89	11.75	10.87	11.85	10.88	12.30	11.13	12.58	11.47	13.00
42.5	9.09	8.92	8.99	9.03	8.85	9.27	8.75	9.38	9.03	9.34
45.0	7.73	7.44	7.84	7.53	7.62	7.71	7.41	7.75	7.69	7.63
47.5	6.39	6.59	6.63	6.38	6.65	6.61	6.35	6.65	6.71	6.42
50.0	5.51	5.57	5.34	5.50	5.72	5.49	5.31	5.51	5.76	5.52
52.5	4.47	4.21	4.33	4.59	4.58	4.41	4.25	4.43	4.61	4.64
55.0	3.22	3.35	3.50	3.45	3.38	3.29	3.24	3.33	3.46	3.56
57.5	2.63	2.59	2.50	2.46	2.47	2.48	2.43	2.49	2.50	2.52
60.0	1.84	1.93	1.93	1.91	1.92	1.92	1.86	1.93	1.94	1.96
62.5	1.42	1.47	1.51	1.52	1.48	1.48	1.34	1.49	1.51	1.57
65.0	0.90	0.94	0.97	0.93	1.00	1.07	0.90	1.09	1.04	0.99
67.5	0.46	0.48	0.60	0.63	0.49	0.71	0.48	0.73	0.53	0.70
70.0	0.28	0.24	0.29	0.31	0.29	0.32	0.21	0.33	0.32	0.35
72.5	0.20	0.16	0.14	0.20	0.16	0.15	0.10	0.15	0.17	0.21
75.0	0.17	0.15	0.09	0.10	0.15	0.07	0.05	0.08	0.16	0.11
77.5	0.16	0.14	0.09	0.03	0.12	0.03	0.03	0.03	0.12	0.03
80.0	0.16	0.15	0.11	0.05	0.06	0.05	0.02	0.05	0.06	0.05
82.5	0.24	0.16	0.13	0.09	0.04	0.07	0.02	0.07	0.03	0.07
85.0	0.41	0.33	0.23	0.13	0.07	0.04	0.02	0.03	0.05	0.03
87.5	0.47	0.45	0.42	0.37	0.21	0.05	0.02	0.04	0.03	0.05
90.0	0.54	0.54	0.54	0.54	0.54	0.54	0.02	0.03	0.03	0.03

Vert. Angles **Horizontal Angles**

	<u>100.0</u>	<u>102.5</u>	<u>105.0</u>	<u>107.5</u>	<u>110.0</u>	<u>112.5</u>	<u>115.0</u>	<u>117.5</u>	<u>120.0</u>	<u>122.5</u>
0.0	907.25	907.25	907.25	907.25	907.25	907.25	907.25	907.25	907.25	907.25
2.5	875.26	876.03	876.86	877.76	878.72	879.74	880.81	881.93	883.08	884.27

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CANDELA TABULATION - (Cont.)

5.0	816.62	821.73	824.99	828.42	831.99	836.39	836.46	835.41	834.68	834.28
7.5	747.85	754.07	761.29	758.83	756.00	751.30	751.80	750.58	749.99	751.02
10.0	665.59	668.43	662.38	657.21	652.93	649.56	654.95	664.80	674.85	685.09
12.5	564.74	556.39	549.21	539.44	549.55	562.81	576.38	590.18	589.59	583.02
15.0	447.91	438.19	428.93	444.24	460.93	478.75	475.52	466.31	456.11	458.78
17.5	338.31	326.40	341.91	359.83	372.13	360.68	350.27	351.07	367.48	385.04
20.0	244.48	249.30	266.11	275.52	264.64	252.25	267.33	284.28	290.76	281.74
22.5	171.94	185.34	200.24	189.73	181.14	195.88	212.10	204.33	195.10	198.99
25.0	123.19	136.58	132.14	122.90	135.89	147.17	139.25	133.12	143.68	153.30
27.5	86.97	91.65	84.52	89.68	99.34	92.33	90.51	99.37	101.04	94.26
30.0	61.41	58.51	57.65	65.89	61.77	60.31	66.29	65.41	61.53	66.65
32.5	40.27	36.73	41.54	41.83	39.20	44.14	42.61	41.23	45.73	44.51
35.0	26.10	25.74	29.01	25.77	28.68	28.22	27.35	30.69	28.71	28.49
37.5	17.04	18.88	18.33	18.71	19.49	18.42	20.72	19.10	19.88	21.44
40.0	12.07	13.73	12.53	13.99	12.63	14.30	13.48	14.17	14.62	14.00
42.5	9.48	9.52	9.84	9.66	10.12	9.94	10.28	10.60	10.47	11.11
45.0	7.98	7.59	7.98	7.88	8.11	8.07	8.20	8.15	8.49	8.07
47.5	6.69	6.69	6.51	6.91	6.71	6.88	6.74	6.89	6.76	6.90
50.0	5.40	5.68	5.65	5.56	5.85	5.60	5.76	5.70	5.78	5.68
52.5	4.45	4.39	4.68	4.73	4.46	4.74	4.65	4.74	4.75	4.74
55.0	3.67	3.56	3.48	3.57	3.77	3.58	3.69	3.84	3.77	3.89
57.5	2.61	2.73	2.85	2.75	2.62	2.77	2.93	2.82	3.08	2.93
60.0	2.00	2.04	1.98	2.02	2.10	2.15	2.09	2.29	2.29	2.30
62.5	1.60	1.59	1.58	1.62	1.60	1.56	1.64	1.73	1.67	1.78
65.0	1.07	1.07	1.06	1.07	1.08	1.15	1.26	1.22	1.27	1.27
67.5	0.71	0.62	0.62	0.66	0.72	0.81	0.86	0.82	0.89	0.84
70.0	0.37	0.34	0.37	0.42	0.45	0.51	0.53	0.52	0.54	0.46
72.5	0.13	0.19	0.22	0.24	0.25	0.29	0.30	0.26	0.25	0.15
75.0	0.07	0.13	0.17	0.15	0.13	0.13	0.12	0.08	0.10	0.12
77.5	0.09	0.13	0.12	0.09	0.06	0.02	0.06	0.08	0.11	0.13
80.0	0.09	0.08	0.05	0.02	0.04	0.06	0.08	0.10	0.12	0.12
82.5	0.06	0.03	0.04	0.06	0.08	0.08	0.09	0.09	0.10	0.10
85.0	0.04	0.06	0.07	0.08	0.07	0.06	0.07	0.07	0.07	0.08
87.5	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
90.0	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

Vert. Angles **Horizontal Angles**

	125.0	127.5	130.0	132.5	135.0	137.5	140.0	142.5	145.0	147.5
0.0	907.25	907.25	907.25	907.25	907.25	907.25	907.25	907.25	907.25	907.25
2.5	885.50	886.46	886.61	888.45	889.37	890.29	891.29	892.16	892.48	892.71
5.0	834.21	833.59	834.48	834.92	835.66	836.71	838.06	839.23	842.30	845.17
7.5	757.31	762.00	769.56	775.55	781.56	787.58	792.91	797.90	798.06	797.61
10.0	695.49	697.87	696.24	692.97	690.64	688.60	687.36	685.64	693.22	700.42
12.5	577.44	572.81	572.91	584.28	595.49	606.21	616.60	625.75	623.59	621.24
15.0	474.63	490.35	505.32	508.62	502.51	497.39	492.94	489.45	497.19	504.46
17.5	392.65	384.95	377.81	371.90	384.02	395.40	405.68	413.68	409.40	408.93
20.0	272.88	278.78	291.31	304.24	304.90	301.22	297.38	296.47	305.00	312.44
22.5	210.83	219.64	214.00	208.43	209.62	218.31	227.81	232.73	229.69	226.37
25.0	147.54	141.26	146.80	155.39	159.82	155.52	150.59	150.75	161.30	170.34
27.5	97.61	104.96	106.03	99.99	99.10	107.44	115.84	119.11	119.28	119.25
30.0	70.60	66.62	65.65	72.03	77.31	76.70	75.60	79.37	84.05	88.18
32.5	41.83	46.63	50.23	49.03	48.75	52.45	56.26	55.05	52.81	51.54
35.0	32.49	31.92	31.30	34.15	35.41	34.16	32.55	32.64	32.11	32.64
37.5	20.08	21.70	23.23	22.01	21.32	21.54	21.72	22.34	23.23	25.52
40.0	15.30	14.97	14.26	14.58	14.86	15.18	16.53	18.35	19.46	20.05

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CANDELA TABULATION - (Cont.)

42.5	10.33	10.30	10.49	10.58	11.56	12.88	13.21	13.47	14.73	15.97
45.0	8.15	8.01	8.27	9.09	9.23	9.59	10.50	11.15	11.23	11.44
47.5	6.66	6.93	6.96	6.99	7.63	7.91	7.91	8.31	8.71	8.71
50.0	5.86	5.64	5.87	5.96	5.92	6.29	6.51	6.37	6.23	6.25
52.5	4.72	4.86	4.69	4.92	5.00	4.92	5.05	5.12	5.10	5.07
55.0	3.79	3.83	3.92	3.80	4.03	4.14	4.12	4.17	4.27	4.30
57.5	3.07	2.89	3.03	3.15	3.14	3.33	3.44	3.40	3.37	3.42
60.0	2.26	2.31	2.27	2.47	2.55	2.52	2.63	2.70	2.66	2.61
62.5	1.70	1.78	1.79	1.79	1.92	1.95	1.90	1.91	1.91	1.88
65.0	1.27	1.24	1.32	1.28	1.29	1.34	1.31	1.23	1.20	1.26
67.5	0.88	0.79	0.81	0.82	0.77	0.80	0.87	0.91	0.91	0.92
70.0	0.47	0.41	0.39	0.51	0.56	0.58	0.60	0.62	0.64	0.64
72.5	0.20	0.26	0.28	0.34	0.39	0.39	0.37	0.36	0.34	0.34
75.0	0.15	0.20	0.21	0.22	0.23	0.20	0.21	0.22	0.23	0.24
77.5	0.14	0.16	0.16	0.16	0.17	0.18	0.18	0.19	0.19	0.21
80.0	0.12	0.13	0.13	0.14	0.14	0.15	0.15	0.15	0.16	0.17
82.5	0.10	0.10	0.11	0.11	0.11	0.12	0.12	0.12	0.13	0.13
85.0	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.10
87.5	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
90.0	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

Vert. Angles	Horizontal Angles									
	<u>150.0</u>	<u>152.5</u>	<u>155.0</u>	<u>157.5</u>	<u>160.0</u>	<u>162.5</u>	<u>165.0</u>	<u>167.5</u>	<u>170.0</u>	<u>172.5</u>
0.0	907.25	907.25	907.25	907.25	907.25	907.25	907.25	907.25	907.25	907.25
2.5	893.05	893.50	894.04	894.19	894.82	895.22	895.68	896.22	896.81	897.47
5.0	848.11	851.12	854.20	855.67	859.37	861.80	864.29	866.84	868.78	870.39
7.5	797.25	797.46	798.29	799.39	800.70	802.63	804.02	806.93	809.50	812.28
10.0	707.20	713.58	719.58	725.19	730.48	735.88	740.61	745.43	749.61	751.94
12.5	619.76	618.84	618.80	619.30	620.37	618.91	625.18	629.57	634.18	638.42
15.0	510.58	516.44	522.12	524.90	529.75	530.03	531.19	532.83	534.92	537.17
17.5	407.23	405.95	403.19	409.72	413.08	419.33	423.23	426.75	430.03	433.11
20.0	319.02	324.89	325.15	323.84	323.05	321.67	322.92	323.24	324.11	325.60
22.5	222.98	224.68	232.87	240.28	246.87	252.66	257.61	261.51	263.63	265.86
25.0	178.87	180.83	182.49	184.14	185.86	187.08	191.75	195.49	198.62	201.34
27.5	121.90	127.19	132.01	136.23	139.19	139.33	139.67	139.96	140.35	140.98
30.0	88.01	86.82	85.20	83.75	84.17	84.17	83.86	83.34	82.63	82.05
32.5	51.46	50.69	49.15	51.17	53.33	55.57	57.82	60.07	62.48	64.77
35.0	34.03	35.35	37.86	40.78	43.72	46.48	49.22	51.03	52.71	54.18
37.5	27.90	29.89	30.93	32.37	33.62	35.39	37.54	39.51	41.25	42.66
40.0	20.63	22.24	23.94	25.64	26.86	27.78	28.69	29.55	30.35	31.10
42.5	16.72	17.04	17.31	17.78	18.54	19.19	19.82	20.28	20.56	20.65
45.0	11.97	12.35	12.51	12.32	11.99	11.55	11.06	11.11	11.08	11.02
47.5	8.44	8.00	7.90	7.73	7.50	7.33	7.43	7.52	7.57	7.61
50.0	6.15	6.18	6.13	6.11	6.16	6.25	6.35	6.47	6.53	6.57
52.5	5.13	5.23	5.26	5.25	5.26	5.28	5.31	5.39	5.43	5.48
55.0	4.28	4.27	4.30	4.29	4.32	4.35	4.38	4.42	4.44	4.44
57.5	3.45	3.46	3.44	3.38	3.34	3.35	3.35	3.37	3.38	3.38
60.0	2.57	2.57	2.56	2.53	2.48	2.44	2.40	2.37	2.35	2.32
62.5	1.81	1.73	1.69	1.73	1.76	1.80	1.82	1.82	1.84	1.84
65.0	1.31	1.34	1.35	1.36	1.37	1.38	1.40	1.40	1.40	1.40
67.5	0.95	0.97	0.98	1.00	1.00	1.01	1.01	0.99	0.99	0.97
70.0	0.64	0.63	0.63	0.62	0.63	0.61	0.61	0.58	0.56	0.54
72.5	0.33	0.35	0.38	0.40	0.43	0.44	0.46	0.47	0.46	0.46
75.0	0.27	0.30	0.33	0.35	0.37	0.38	0.40	0.40	0.40	0.40
77.5	0.23	0.24	0.27	0.29	0.31	0.32	0.34	0.34	0.34	0.34

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CANDELA TABULATION - (Cont.)

80.0	0.20	0.20	0.22	0.24	0.25	0.26	0.27	0.28	0.27	0.27
82.5	0.15	0.16	0.18	0.19	0.20	0.21	0.22	0.22	0.22	0.22
85.0	0.11	0.12	0.12	0.13	0.14	0.14	0.15	0.16	0.16	0.16
87.5	0.07	0.07	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09
90.0	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

Vert. Angles	Horizontal Angles									
	175.0	177.5	180.0	182.5	185.0	187.5	190.0	192.5	195.0	197.5
0.0	907.25	907.25	907.25	907.25	907.25	907.25	907.25	907.25	907.25	907.25
2.5	898.18	898.94	899.74	899.99	900.28	900.60	900.94	901.30	901.67	902.06
5.0	872.07	873.84	875.72	876.53	877.46	878.54	879.78	880.88	880.99	881.51
7.5	814.78	817.53	820.72	822.77	825.19	827.90	829.11	830.37	831.77	831.80
10.0	756.53	760.09	763.66	764.88	766.10	765.11	767.01	766.63	765.36	764.90
12.5	642.96	646.90	651.44	654.98	659.05	662.09	665.36	667.60	670.08	669.36
15.0	540.58	543.76	547.44	550.06	552.49	554.32	554.53	554.40	553.25	550.90
17.5	436.05	438.90	441.66	443.39	444.82	446.12	447.37	448.06	449.05	450.36
20.0	324.60	329.66	333.58	335.55	335.69	340.60	342.14	343.19	344.47	343.43
22.5	267.76	270.14	271.86	272.59	272.51	271.62	269.98	267.64	265.93	264.15
25.0	203.79	205.97	207.84	209.15	209.86	210.28	210.50	210.59	210.56	209.64
27.5	141.92	143.05	144.34	145.53	146.51	147.25	147.69	147.70	147.05	145.53
30.0	79.34	80.63	81.41	81.39	80.62	84.61	86.58	88.81	91.24	93.67
32.5	66.66	68.03	68.95	69.46	69.52	69.24	68.40	67.01	64.85	62.02
35.0	55.48	56.38	57.05	57.34	57.23	56.60	55.46	53.82	51.65	49.74
37.5	43.82	44.54	45.05	45.26	45.23	44.84	44.34	43.40	42.49	41.11
40.0	31.77	32.23	32.82	33.09	33.42	33.38	33.03	32.39	31.39	30.18
42.5	20.73	20.80	20.94	21.12	21.28	21.44	21.45	21.49	21.57	21.51
45.0	10.97	10.96	11.02	11.20	11.42	11.68	11.98	12.24	12.47	13.07
47.5	7.65	7.69	7.74	7.84	7.91	7.97	8.02	8.05	8.10	8.14
50.0	6.60	6.61	6.68	6.75	6.81	6.86	6.90	6.94	7.01	7.07
52.5	5.50	5.52	5.56	5.64	5.69	5.75	5.82	5.86	5.91	5.93
55.0	4.44	4.45	4.49	4.55	4.59	4.64	4.69	4.73	4.78	4.78
57.5	3.37	3.37	3.40	3.44	3.48	3.53	3.59	3.64	3.70	3.74
60.0	2.26	2.28	2.30	2.33	2.33	2.42	2.49	2.54	2.59	2.62
62.5	1.84	1.85	1.87	1.88	1.89	1.91	1.92	1.89	1.89	1.87
65.0	1.40	1.40	1.42	1.42	1.43	1.44	1.46	1.45	1.44	1.42
67.5	0.96	0.96	0.96	0.97	0.98	0.98	0.99	0.98	0.96	0.95
70.0	0.51	0.51	0.51	0.52	0.50	0.51	0.52	0.51	0.51	0.51
72.5	0.46	0.46	0.46	0.46	0.45	0.43	0.42	0.40	0.36	0.33
75.0	0.40	0.40	0.40	0.40	0.39	0.37	0.36	0.33	0.30	0.28
77.5	0.33	0.33	0.33	0.34	0.32	0.32	0.31	0.28	0.26	0.24
80.0	0.27	0.27	0.27	0.27	0.27	0.26	0.25	0.24	0.22	0.20
82.5	0.22	0.22	0.22	0.22	0.21	0.20	0.19	0.18	0.17	0.15
85.0	0.16	0.16	0.16	0.16	0.15	0.15	0.14	0.13	0.12	0.11
87.5	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.08	0.08	0.07
90.0	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

Vert. Angles	Horizontal Angles									
	200.0	202.5	205.0	207.5	210.0	212.5	215.0	217.5	220.0	222.5
0.0	907.25	907.25	907.25	907.25	907.25	907.25	907.25	907.25	907.25	907.25
2.5	902.45	902.85	903.15	902.72	902.54	902.35	902.17	901.92	901.49	902.13
5.0	882.26	883.28	883.91	884.30	884.97	885.91	887.14	888.31	886.26	884.58
7.5	831.59	831.52	830.93	829.98	829.22	828.90	826.85	824.74	825.87	827.82
10.0	763.07	762.17	761.30	760.68	761.28	761.55	762.95	765.53	759.51	754.62
12.5	671.17	669.70	667.32	664.08	660.37	656.05	651.45	645.43	647.16	648.01

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CANDELA TABULATION - (Cont.)

15.0	549.59	541.24	546.73	548.14	549.90	552.74	555.61	561.60	551.43	545.08
17.5	451.75	453.16	452.68	449.95	444.11	437.29	429.39	420.13	422.69	427.12
20.0	342.07	339.64	336.13	335.30	335.69	338.10	340.87	344.25	335.98	324.64
22.5	262.22	260.18	258.06	255.88	252.91	246.88	240.56	233.55	234.30	238.89
25.0	206.33	201.24	194.86	187.29	178.85	177.73	176.86	175.15	171.33	164.63
27.5	143.79	142.38	142.10	141.62	140.87	136.54	128.87	121.02	116.21	116.70
30.0	95.92	97.98	96.81	94.57	91.75	88.16	90.01	90.72	89.67	82.95
32.5	58.76	55.30	51.69	55.82	59.22	61.77	61.20	59.38	55.97	57.45
35.0	48.01	46.29	44.65	42.53	39.41	36.34	34.93	38.07	40.12	38.73
37.5	39.39	37.00	34.60	32.28	30.81	30.12	29.05	26.70	24.18	24.21
40.0	28.81	27.66	27.01	26.30	25.56	23.68	21.72	20.42	19.89	18.97
42.5	21.38	21.13	20.55	19.57	18.54	17.76	17.43	17.00	15.43	14.01
45.0	13.45	13.68	13.75	13.99	14.10	14.07	13.31	12.37	11.95	11.86
47.5	8.43	8.89	9.24	9.50	9.77	9.76	9.66	9.76	9.71	9.09
50.0	7.06	7.08	7.04	6.99	6.86	7.18	7.34	7.33	7.13	7.13
52.5	5.91	5.90	5.91	5.95	5.97	5.88	5.73	5.46	5.58	5.62
55.0	4.82	4.88	4.93	4.95	4.87	4.76	4.73	4.67	4.55	4.23
57.5	3.78	3.81	3.84	3.85	3.84	3.87	3.89	3.74	3.55	3.43
60.0	2.67	2.73	2.82	2.90	2.96	2.98	2.91	2.82	2.82	2.75
62.5	1.86	1.87	1.87	1.94	1.99	2.04	2.09	2.13	2.13	2.01
65.0	1.42	1.42	1.42	1.40	1.39	1.39	1.40	1.40	1.41	1.41
67.5	0.95	0.97	0.99	0.99	1.00	1.01	0.98	0.96	0.96	0.96
70.0	0.52	0.55	0.57	0.57	0.58	0.58	0.60	0.63	0.65	0.65
72.5	0.30	0.28	0.24	0.20	0.17	0.20	0.26	0.31	0.34	0.34
75.0	0.25	0.24	0.21	0.18	0.15	0.12	0.12	0.12	0.09	0.08
77.5	0.22	0.21	0.18	0.15	0.13	0.11	0.11	0.10	0.08	0.07
80.0	0.18	0.17	0.14	0.13	0.10	0.09	0.09	0.09	0.06	0.07
82.5	0.14	0.13	0.11	0.10	0.09	0.07	0.08	0.07	0.06	0.06
85.0	0.10	0.10	0.09	0.08	0.07	0.06	0.06	0.06	0.05	0.05
87.5	0.07	0.07	0.06	0.05	0.05	0.04	0.05	0.04	0.04	0.04
90.0	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

Vert. Angles **Horizontal Angles**

	<u>225.0</u>	<u>227.5</u>	<u>230.0</u>	<u>232.5</u>	<u>235.0</u>	<u>237.5</u>	<u>240.0</u>	<u>242.5</u>	<u>245.0</u>	<u>247.5</u>
0.0	907.25	907.25	907.25	907.25	907.25	907.25	907.25	907.25	907.25	907.25
2.5	902.29	902.53	902.85	903.24	903.86	903.72	904.05	904.45	904.92	905.46
5.0	882.89	881.19	879.47	877.75	877.18	873.38	871.12	868.87	866.66	864.71
7.5	826.83	827.98	829.93	832.67	835.33	838.45	833.55	826.89	820.21	813.53
10.0	751.12	743.40	737.40	731.53	730.53	733.23	737.03	741.90	749.74	746.98
12.5	650.34	653.59	657.67	651.16	639.65	627.74	615.89	612.66	615.60	622.83
15.0	532.69	522.44	518.18	522.38	527.51	533.72	525.54	509.54	494.07	484.68
17.5	432.21	437.92	425.16	411.00	396.75	395.10	406.21	410.99	403.74	385.94
20.0	312.53	305.91	312.55	319.39	319.61	303.58	287.67	286.48	297.78	304.14
22.5	243.32	238.68	226.83	212.66	216.26	223.39	222.34	207.02	193.36	204.70
25.0	157.30	158.59	163.55	164.93	152.87	141.45	147.65	154.46	144.45	132.51
27.5	117.54	112.02	105.16	103.79	108.45	107.15	97.81	95.85	101.99	97.63
30.0	76.15	75.65	76.58	73.03	67.28	68.80	72.67	66.20	62.18	67.29
32.5	58.30	54.26	48.97	48.92	50.09	45.96	43.96	47.10	43.86	40.74
35.0	36.23	36.49	37.73	34.71	31.56	32.91	31.61	28.32	30.97	28.93
37.5	25.93	25.44	23.72	24.39	24.58	21.88	22.03	21.85	19.60	21.34
40.0	17.02	16.72	17.96	17.25	16.39	17.17	15.79	15.56	15.70	14.60
42.5	13.92	13.61	12.43	12.55	12.86	11.99	12.51	12.06	11.90	11.93
45.0	11.21	10.30	10.31	9.89	9.45	10.05	9.65	9.84	9.60	9.60
47.5	8.70	8.72	8.22	7.95	8.23	7.93	8.17	7.93	8.03	7.91
50.0	7.21	6.71	6.56	6.79	6.49	6.71	6.59	6.66	6.56	6.76

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

52.5	5.31	5.25	5.42	5.18	5.34	5.32	5.35	5.36	5.36	5.15
55.0	4.08	4.13	3.94	4.06	4.16	4.12	4.29	4.11	4.07	4.04
57.5	3.36	3.04	2.93	3.04	2.99	3.28	3.10	3.28	2.95	2.92
60.0	2.54	2.38	2.38	2.20	2.28	2.34	2.38	2.27	2.34	2.19
62.5	1.91	1.90	1.79	1.73	1.78	1.62	1.75	1.64	1.68	1.74
65.0	1.43	1.38	1.30	1.33	1.27	1.25	1.21	1.20	1.14	1.20
67.5	0.95	0.90	0.90	0.91	0.84	0.89	0.82	0.87	0.72	0.70
70.0	0.61	0.57	0.54	0.48	0.49	0.55	0.52	0.56	0.46	0.32
72.5	0.34	0.35	0.32	0.27	0.24	0.24	0.29	0.33	0.27	0.19
75.0	0.12	0.15	0.14	0.14	0.14	0.14	0.16	0.17	0.18	0.14
77.5	0.07	0.05	0.04	0.03	0.05	0.07	0.09	0.10	0.12	0.13
80.0	0.06	0.04	0.03	0.03	0.03	0.03	0.03	0.04	0.06	0.07
82.5	0.05	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
85.0	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
87.5	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
90.0	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

Vert. Angles **Horizontal Angles**

	<u>250.0</u>	<u>252.5</u>	<u>255.0</u>	<u>257.5</u>	<u>260.0</u>	<u>262.5</u>	<u>265.0</u>	<u>267.5</u>	<u>270.0</u>	<u>272.5</u>
0.0	907.25	907.25	907.25	907.25	907.25	907.25	907.25	907.25	907.25	907.25
2.5	906.07	906.75	907.48	908.26	909.10	909.98	910.89	911.84	912.81	910.21
5.0	867.31	869.03	871.01	873.25	875.71	878.39	881.27	884.32	887.53	880.86
7.5	808.20	799.58	793.33	798.20	802.73	807.88	813.62	819.90	826.66	814.67
10.0	733.73	720.75	708.11	695.91	694.87	702.78	711.62	721.36	731.95	714.52
12.5	631.27	630.84	616.13	596.00	579.94	580.80	592.41	605.22	619.20	598.26
15.0	497.36	504.54	515.37	493.68	473.82	455.16	468.83	484.05	500.67	477.20
17.5	369.27	374.51	386.48	400.22	373.13	352.49	351.50	367.25	384.46	360.98
20.0	285.39	269.97	272.90	285.48	283.58	262.85	250.20	264.38	279.92	259.15
22.5	216.45	200.43	186.15	194.05	205.80	191.15	174.48	185.12	198.69	181.04
25.0	139.30	147.56	136.36	127.68	137.35	136.04	122.04	125.60	136.54	122.73
27.5	88.55	94.29	96.73	86.89	89.42	95.15	84.29	84.04	92.75	82.25
30.0	64.00	58.30	63.75	60.88	56.54	62.55	57.51	55.30	61.84	54.39
32.5	44.42	40.68	39.74	42.93	38.02	40.62	39.93	37.31	41.80	36.89
35.0	27.75	29.86	26.41	28.61	27.48	27.29	28.45	25.89	29.25	25.79
37.5	19.71	19.99	19.98	19.25	20.40	19.05	20.90	18.75	21.20	18.95
40.0	15.74	14.23	15.38	14.32	15.47	14.54	15.82	14.55	16.10	14.68
42.5	11.56	11.85	11.53	11.83	11.86	11.93	12.36	11.90	12.89	12.14
45.0	9.50	9.67	9.53	9.99	9.64	10.13	10.13	10.03	10.67	10.24
47.5	8.18	7.86	8.33	8.17	8.26	8.70	8.36	8.46	9.01	8.60
50.0	6.46	6.85	6.63	6.53	6.95	6.86	6.51	6.84	7.22	6.90
52.5	5.47	5.16	5.16	5.40	5.29	5.08	5.09	5.32	5.60	5.32
55.0	3.74	3.97	4.07	3.81	3.57	3.72	3.81	3.91	4.04	3.90
57.5	3.03	2.88	2.73	2.80	2.85	2.93	2.95	2.95	3.01	2.93
60.0	2.21	2.27	2.28	2.23	2.19	2.23	2.26	2.25	2.33	2.22
62.5	1.66	1.63	1.61	1.59	1.57	1.57	1.66	1.63	1.77	1.61
65.0	1.24	1.22	1.23	1.18	1.20	1.22	1.19	1.10	1.29	1.07
67.5	0.74	0.80	0.85	0.79	0.67	0.63	0.81	0.55	0.82	0.52
70.0	0.32	0.39	0.40	0.35	0.29	0.28	0.28	0.26	0.38	0.25
72.5	0.13	0.13	0.16	0.17	0.19	0.12	0.15	0.17	0.22	0.17
75.0	0.11	0.07	0.05	0.09	0.14	0.10	0.06	0.13	0.17	0.15
77.5	0.10	0.07	0.05	0.04	0.07	0.11	0.03	0.11	0.14	0.12
80.0	0.09	0.09	0.07	0.04	0.03	0.07	0.06	0.06	0.11	0.07
82.5	0.04	0.05	0.06	0.07	0.04	0.03	0.05	0.03	0.09	0.03
85.0	0.03	0.03	0.03	0.04	0.05	0.05	0.02	0.04	0.06	0.05
87.5	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.02	0.05	0.11

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

90.0	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.54
Vert. Angles	Horizontal Angles									
	<u>275.0</u>	<u>277.5</u>	<u>280.0</u>	<u>282.5</u>	<u>285.0</u>	<u>287.5</u>	<u>290.0</u>	<u>292.5</u>	<u>295.0</u>	<u>297.5</u>
0.0	907.25	907.25	907.25	907.25	907.25	907.25	907.25	907.25	907.25	907.25
2.5	907.63	905.09	902.60	900.17	897.80	895.50	893.28	891.14	889.10	887.16
5.0	874.35	868.04	861.96	856.13	850.57	845.33	840.41	835.84	833.68	833.11
7.5	803.18	792.25	781.94	772.31	763.41	763.64	767.27	767.64	769.50	771.51
10.0	697.95	682.26	667.49	661.48	666.50	672.14	678.35	685.07	682.05	668.64
12.5	578.45	559.79	551.32	558.85	570.04	576.14	569.76	555.54	542.33	532.74
15.0	455.10	434.44	444.90	456.39	468.84	453.22	440.13	421.91	423.15	429.55
17.5	338.89	332.74	345.26	361.84	345.48	328.83	317.91	326.49	335.76	335.94
20.0	239.67	245.63	259.14	256.11	240.22	232.64	241.17	251.50	242.09	227.88
22.5	165.61	177.19	186.39	172.42	161.67	170.52	181.79	167.54	155.83	163.11
25.0	115.83	125.35	123.83	112.69	117.47	124.34	115.33	107.24	115.09	121.35
27.5	80.16	87.93	81.16	76.96	83.25	79.47	72.75	79.05	81.55	75.81
30.0	55.20	58.76	52.44	54.74	55.86	50.16	53.50	55.22	50.60	52.41
32.5	38.81	39.04	36.16	39.77	36.55	36.53	38.65	35.30	36.59	37.97
35.0	27.99	26.85	26.86	27.75	25.67	27.95	25.93	26.24	27.09	24.77
37.5	20.99	19.32	20.62	19.60	20.17	20.03	19.56	20.45	18.84	19.60
40.0	16.19	15.08	16.05	15.02	16.02	14.94	16.14	15.03	15.68	15.38
42.5	12.83	12.61	12.70	12.75	12.51	12.78	12.52	12.76	12.57	12.61
45.0	10.55	10.77	10.42	10.88	10.44	10.72	10.64	10.66	10.48	10.54
47.5	8.61	9.12	8.71	8.64	8.97	8.46	8.99	8.58	8.70	8.49
50.0	6.63	7.03	7.17	6.68	6.83	7.15	6.61	6.97	6.66	6.79
52.5	5.05	5.03	5.25	5.37	5.05	5.07	5.41	4.95	5.07	5.11
55.0	3.77	3.66	3.51	3.67	3.86	3.80	3.59	3.80	3.72	3.79
57.5	2.93	2.91	2.81	2.73	2.65	2.77	2.92	2.81	2.79	3.04
60.0	2.23	2.19	2.14	2.16	2.21	2.19	2.13	2.13	2.27	2.18
62.5	1.61	1.49	1.49	1.49	1.52	1.52	1.57	1.68	1.64	1.63
65.0	1.12	1.14	1.09	1.07	1.12	1.12	1.13	1.11	1.06	1.20
67.5	0.75	0.54	0.56	0.65	0.75	0.75	0.69	0.61	0.64	0.94
70.0	0.27	0.24	0.26	0.32	0.37	0.41	0.37	0.36	0.53	0.74
72.5	0.16	0.14	0.22	0.21	0.22	0.23	0.30	0.40	0.51	0.63
75.0	0.07	0.12	0.18	0.17	0.16	0.25	0.37	0.46	0.55	0.64
77.5	0.04	0.14	0.14	0.16	0.24	0.34	0.44	0.54	0.58	0.63
80.0	0.07	0.11	0.13	0.25	0.36	0.46	0.50	0.54	0.59	0.63
82.5	0.10	0.12	0.26	0.39	0.46	0.48	0.52	0.54	0.57	0.60
85.0	0.11	0.30	0.42	0.48	0.51	0.51	0.52	0.54	0.55	0.58
87.5	0.38	0.47	0.50	0.52	0.52	0.52	0.52	0.54	0.54	0.56
90.0	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54

Vert. Angles	Horizontal Angles									
	<u>300.0</u>	<u>302.5</u>	<u>305.0</u>	<u>307.5</u>	<u>310.0</u>	<u>312.5</u>	<u>315.0</u>	<u>317.5</u>	<u>320.0</u>	<u>322.5</u>
0.0	907.25	907.25	907.25	907.25	907.25	907.25	907.25	907.25	907.25	907.25
2.5	885.33	883.61	882.38	880.44	878.75	877.19	875.75	874.43	873.24	872.17
5.0	832.67	832.34	833.77	831.82	831.11	830.45	829.86	829.33	828.87	828.88
7.5	773.64	776.21	766.85	760.07	753.42	747.61	742.65	739.89	734.47	730.94
10.0	658.26	648.97	640.80	636.41	636.90	637.41	639.44	637.44	636.84	637.84
12.5	528.67	532.18	535.85	539.47	539.33	529.97	521.05	512.66	505.18	497.99
15.0	436.15	436.09	424.08	412.78	402.15	400.83	406.31	413.33	415.88	421.33
17.5	325.72	309.96	305.66	313.90	322.15	330.38	323.00	316.73	310.78	306.82
20.0	224.04	233.58	243.40	241.13	233.81	226.45	228.19	233.47	238.08	240.39
22.5	172.78	171.59	164.25	159.25	166.37	171.87	172.27	166.18	159.63	155.04

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

25.0	114.75	108.61	114.68	121.03	117.70	111.60	107.45	108.22	108.13	107.76
27.5	75.80	80.94	80.22	75.02	73.38	74.83	75.70	74.71	73.91	75.96
30.0	55.98	52.04	49.32	50.93	51.61	50.70	50.60	54.07	57.45	57.45
32.5	34.84	34.79	36.24	35.01	34.70	37.36	39.33	38.39	37.05	38.34
35.0	25.59	25.72	24.68	26.20	27.61	26.54	25.92	26.72	26.87	25.10
37.5	19.34	18.97	20.21	19.84	19.16	19.68	19.45	17.96	17.38	18.37
40.0	15.36	15.94	15.22	15.35	15.43	14.41	14.22	14.81	15.00	15.07
42.5	12.93	12.49	12.89	12.41	11.95	12.27	12.18	12.03	12.49	13.07
45.0	10.33	10.78	10.30	10.49	10.35	10.01	10.24	10.40	10.28	10.36
47.5	8.66	8.41	8.92	8.51	8.58	8.57	8.28	8.35	8.61	8.53
50.0	6.72	6.98	6.78	7.14	6.83	6.78	6.86	6.62	6.55	6.71
52.5	5.28	5.38	5.50	5.33	5.50	5.20	5.05	5.15	5.14	5.12
55.0	4.10	4.05	4.20	4.13	3.94	3.92	3.77	3.83	4.24	4.46
57.5	2.88	3.20	2.98	3.05	2.94	2.95	3.15	3.21	3.36	3.68
60.0	2.27	2.25	2.29	2.26	2.45	2.43	2.52	2.71	2.80	2.89
62.5	1.71	1.64	1.83	1.84	1.93	2.03	2.02	2.09	2.27	2.37
65.0	1.27	1.37	1.43	1.51	1.49	1.58	1.62	1.60	1.66	1.80
67.5	0.99	1.12	1.12	1.20	1.18	1.16	1.20	1.25	1.32	1.45
70.0	0.80	0.92	0.91	0.91	0.91	0.95	1.02	1.11	1.17	1.23
72.5	0.70	0.75	0.77	0.81	0.86	0.89	0.92	0.97	1.02	1.06
75.0	0.66	0.71	0.74	0.76	0.81	0.84	0.85	0.86	0.89	0.92
77.5	0.65	0.68	0.71	0.72	0.76	0.79	0.79	0.81	0.82	0.85
80.0	0.64	0.66	0.67	0.68	0.71	0.74	0.74	0.76	0.77	0.78
82.5	0.62	0.62	0.63	0.64	0.66	0.68	0.69	0.70	0.71	0.72
85.0	0.59	0.59	0.60	0.61	0.62	0.63	0.64	0.64	0.65	0.66
87.5	0.56	0.56	0.56	0.57	0.58	0.58	0.58	0.59	0.59	0.60
90.0	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54

Vert. Angles **Horizontal Angles**

	<u>325.0</u>	<u>327.5</u>	<u>330.0</u>	<u>332.5</u>	<u>335.0</u>	<u>337.5</u>	<u>340.0</u>	<u>342.5</u>	<u>345.0</u>	<u>347.5</u>
0.0	907.25	907.25	907.25	907.25	907.25	907.25	907.25	907.25	907.25	907.25
2.5	872.25	870.64	870.00	869.43	869.19	868.34	867.56	866.85	866.23	865.68
5.0	829.12	822.16	819.24	816.75	814.68	812.70	810.68	809.04	807.77	807.15
7.5	729.03	728.07	725.65	723.88	722.48	720.88	718.99	717.52	716.27	714.61
10.0	630.47	624.70	620.04	615.39	611.90	608.98	606.57	605.29	603.79	603.40
12.5	500.19	502.57	504.79	506.50	507.84	508.76	509.35	509.57	512.47	507.15
15.0	414.88	410.72	406.72	403.52	400.72	398.54	399.87	399.62	400.51	401.05
17.5	309.31	311.80	313.71	315.16	315.83	313.02	310.00	307.21	304.85	303.05
20.0	234.55	228.91	223.33	218.91	215.46	213.95	212.19	210.30	208.81	206.16
22.5	154.65	153.28	151.22	149.27	149.83	150.47	151.21	152.05	153.02	154.43
25.0	108.01	107.71	107.60	110.81	113.65	116.08	118.11	119.71	119.89	119.99
27.5	79.67	83.14	84.54	83.97	83.23	82.37	82.80	82.13	82.22	82.17
30.0	56.41	55.07	55.93	56.48	56.47	56.68	53.66	51.50	49.30	47.22
32.5	38.70	38.23	36.09	33.41	30.28	31.64	32.81	33.84	34.69	35.37
35.0	22.66	23.10	24.51	25.93	26.80	27.38	27.94	28.47	29.15	29.71
37.5	19.38	19.86	20.16	20.83	21.95	22.97	23.88	24.42	24.82	25.05
40.0	15.57	16.47	17.41	17.75	18.10	18.43	18.93	19.45	19.86	20.17
42.5	13.14	13.26	13.67	14.25	14.80	15.16	15.27	15.30	15.32	15.28
45.0	10.74	11.15	11.20	11.22	11.19	11.32	11.36	11.27	11.11	11.05
47.5	8.42	8.53	8.73	8.85	8.75	8.68	8.58	8.54	8.62	8.68
50.0	6.80	6.78	6.76	7.04	7.22	7.37	7.47	7.52	7.54	7.55
52.5	5.47	5.75	5.94	6.07	6.14	6.22	6.33	6.42	6.46	6.46
55.0	4.58	4.73	4.94	5.16	5.26	5.28	5.30	5.31	5.34	5.31
57.5	3.91	3.99	4.04	4.12	4.24	4.30	4.32	4.33	4.29	4.24
60.0	3.08	3.24	3.31	3.31	3.31	3.29	3.28	3.26	3.20	3.14

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

62.5	2.41	2.44	2.49	2.48	2.49	2.52	2.54	2.55	2.56	2.56
65.0	1.89	1.93	1.98	2.02	2.06	2.11	2.13	2.15	2.15	2.13
67.5	1.57	1.63	1.67	1.68	1.68	1.70	1.71	1.71	1.72	1.70
70.0	1.29	1.31	1.34	1.33	1.33	1.34	1.32	1.31	1.30	1.27
72.5	1.07	1.04	1.02	1.03	1.05	1.08	1.10	1.11	1.13	1.13
75.0	0.94	0.94	0.95	0.96	0.97	0.99	1.01	1.02	1.04	1.04
77.5	0.87	0.87	0.88	0.89	0.90	0.92	0.93	0.95	0.96	0.95
80.0	0.80	0.81	0.81	0.81	0.82	0.84	0.85	0.86	0.87	0.87
82.5	0.73	0.74	0.74	0.74	0.75	0.76	0.77	0.78	0.78	0.79
85.0	0.67	0.67	0.67	0.68	0.68	0.69	0.70	0.70	0.70	0.70
87.5	0.60	0.60	0.60	0.61	0.61	0.61	0.62	0.62	0.62	0.62
90.0	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54

Vert. Horizontal Angles
Angles

	<u>350.0</u>	<u>352.5</u>	<u>355.0</u>	<u>357.5</u>	<u>360.0</u>
0.0	907.25	907.25	907.25	907.25	907.25
2.5	865.22	864.85	864.58	864.39	864.30
5.0	805.78	804.76	804.06	803.68	803.59
7.5	713.46	712.75	711.42	710.63	710.42
10.0	603.07	603.17	603.77	604.33	605.73
12.5	506.10	505.11	505.06	503.84	503.65
15.0	401.29	401.67	401.54	401.47	401.69
17.5	301.84	300.66	299.99	299.76	299.91
20.0	204.02	202.00	200.22	198.73	197.40
22.5	155.99	157.36	158.26	158.81	158.97
25.0	120.10	120.14	120.14	120.12	119.81
27.5	82.02	81.75	81.41	81.12	80.87
30.0	45.40	43.88	42.73	42.06	41.91
32.5	35.91	36.28	36.49	36.60	36.60
35.0	30.26	30.77	31.14	31.27	31.27
37.5	25.35	25.60	25.92	26.02	25.98
40.0	20.38	20.62	20.85	20.78	20.59
42.5	15.36	15.29	15.47	15.54	15.34
45.0	10.97	10.94	11.09	11.09	10.83
47.5	8.73	8.78	8.99	9.03	8.77
50.0	7.57	7.57	7.68	7.85	7.67
52.5	6.49	6.45	6.57	6.58	6.39
55.0	5.30	5.27	5.32	5.37	5.23
57.5	4.18	4.13	4.12	4.13	4.04
60.0	3.06	2.99	2.93	2.90	2.82
62.5	2.53	2.50	2.48	2.47	2.43
65.0	2.10	2.07	2.05	2.04	2.02
67.5	1.67	1.64	1.63	1.62	1.61
70.0	1.24	1.22	1.20	1.19	1.19
72.5	1.12	1.12	1.11	1.11	1.11
75.0	1.03	1.03	1.03	1.03	1.03
77.5	0.95	0.95	0.95	0.95	0.95
80.0	0.87	0.86	0.86	0.86	0.86
82.5	0.79	0.78	0.78	0.78	0.78
85.0	0.70	0.70	0.70	0.70	0.70
87.5	0.62	0.62	0.62	0.62	0.62
90.0	0.54	0.54	0.54	0.54	0.54

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	200.09	66.80	66.40
0-30	265.62	88.70	88.20
0-40	286.77	95.70	95.20
0-60	298.90	99.80	99.30
0-80	300.80	100.40	99.90
0-90	301.15	100.50	100.00
10-90	226.37	75.60	75.20
20-40	86.68	28.90	28.80
20-50	95.02	31.70	31.60
40-70	13.55	4.50	4.50
60-80	1.90	0.60	0.60
70-80	0.49	0.20	0.20
80-90	0.35	0.10	0.10
90-110	0.00	0.00	0.00
90-120	0.00	0.00	0.00
90-130	0.00	0.00	0.00
90-150	0.00	0.00	0.00
90-180	0.00	0.00	0.00
110-180	0.00	0.00	0.00
0-180	301.15	100.50	100.00

Total Luminaire Efficiency = 100.50%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	74.78
10-20	125.31
20-30	65.53
30-40	21.15
40-50	8.34
50-60	3.79
60-70	1.42
70-80	0.49
80-90	0.35
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

IES INDOOR REPORT
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	120	120	120	120	117	117	117	117	112	112	112	107	107	107	103	103	103	101
1	115	113	110	108	113	110	109	107	106	105	103	103	102	100	99	98	98	96
2	110	106	103	100	108	105	102	99	101	99	97	99	97	95	96	94	93	91
3	106	101	97	93	104	99	96	93	97	94	91	95	92	90	92	90	88	87
4	102	96	91	88	101	95	91	87	93	89	86	91	88	85	89	87	84	83
5	98	92	87	83	97	91	86	83	89	85	82	87	84	82	86	83	81	80
6	95	88	83	79	94	87	82	79	85	81	78	84	81	78	83	80	77	76
7	92	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	74	73
8	88	81	76	73	87	80	76	72	79	75	72	78	75	72	77	74	72	70
9	85	78	73	70	85	77	73	70	76	72	69	76	72	69	75	71	69	68
10	83	75	70	67	82	75	70	67	74	70	67	73	69	67	72	69	67	66

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UGR TABLE - CORRECTED

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

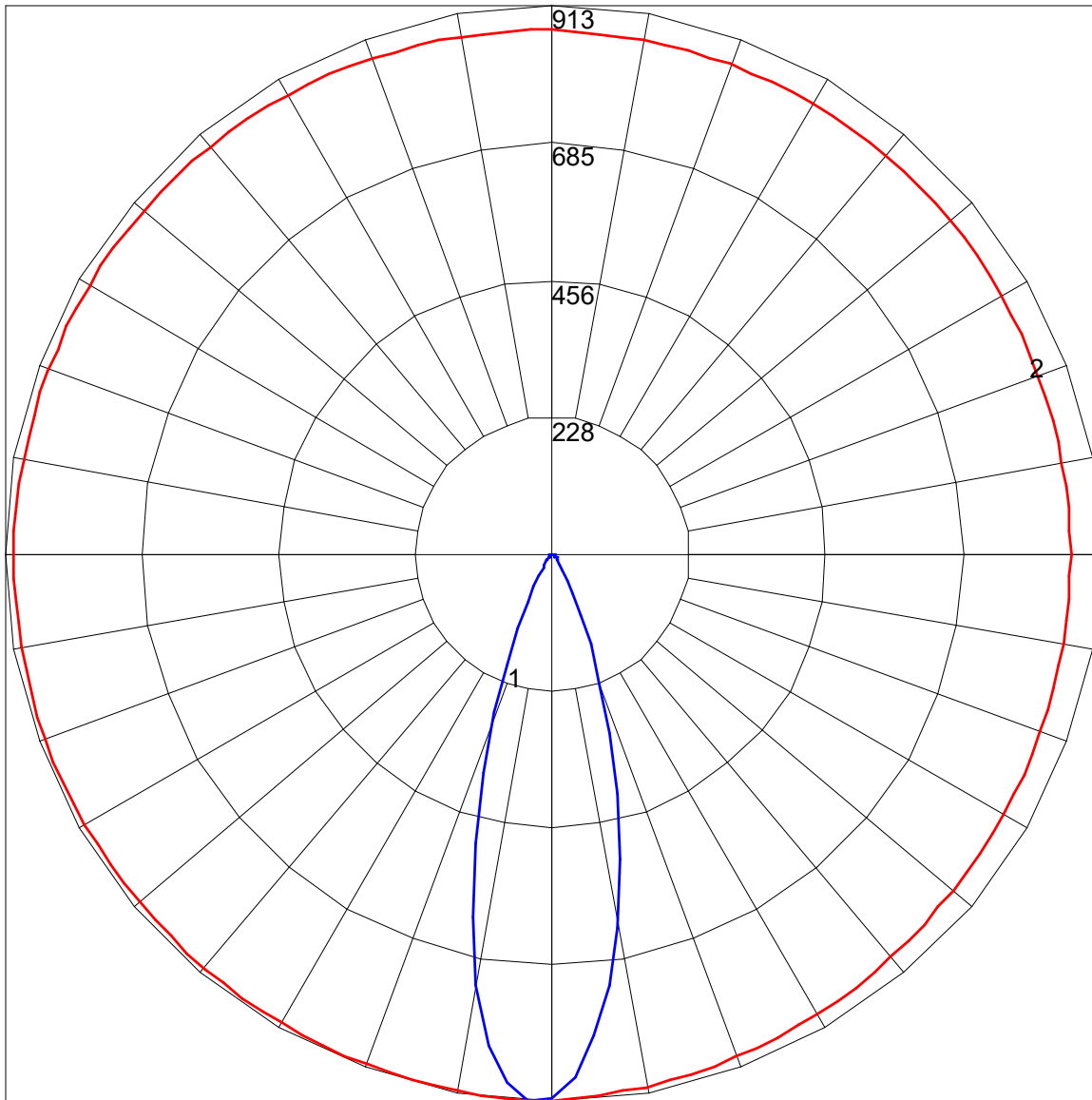
X=2H	Y=2H	17.9	18.9	18.2	19.3	19.6	4.1	5.2	4.5	5.5	5.8
	3H	18.8	19.7	19.1	20.0	20.4	9.2	10.1	9.6	10.5	10.8
	4H	19.3	20.1	19.7	20.5	20.8	11.5	12.3	11.9	12.7	13.1
	6H	19.9	20.7	20.3	21.1	21.5	13.9	14.7	14.3	15.1	15.5
	8H	20.3	21.1	20.8	21.5	21.9	15.2	15.9	15.6	16.3	16.7
	12H	20.8	21.6	21.3	22.0	22.4	16.6	17.4	17.1	17.7	18.2

UGR Viewed Endwise

4H	2H	17.7	18.6	18.1	18.9	19.3	7.5	8.4	7.9	8.7	9.1
	3H	18.8	19.5	19.2	19.9	20.3	11.5	12.2	11.9	12.6	13.0
	4H	19.5	20.1	19.9	20.6	21.0	13.5	14.2	14.0	14.6	15.0
	6H	20.5	21.0	21.0	21.5	22.0	15.8	16.4	16.3	16.8	17.3
	8H	21.1	21.6	21.6	22.1	22.6	17.1	17.6	17.6	18.1	18.6
	12H	21.8	22.3	22.3	22.8	23.3	18.6	19.0	19.1	19.5	20.0
8H	4H	19.6	20.1	20.1	20.6	21.1	14.8	15.3	15.3	15.7	16.2
	6H	20.9	21.3	21.4	21.8	22.3	17.2	17.6	17.7	18.1	18.6
	8H	21.7	22.1	22.3	22.6	23.1	18.6	19.0	19.1	19.5	20.0
	12H	22.8	23.1	23.3	23.6	24.2	20.3	20.6	20.8	21.0	21.6
12H	4H	19.6	20.1	20.1	20.6	21.1	15.1	15.6	15.6	16.1	16.6
	6H	21.0	21.4	21.6	21.8	22.4	17.7	18.0	18.2	18.5	19.1
	8H	22.0	22.3	22.5	22.8	23.3	19.2	19.5	19.7	20.0	20.6

Maximum UGR = 24.2

POLAR GRAPH



Maximum Candela = 912.81 Located At Horizontal Angle = 270, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (270 - 90) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)