



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BBX-HO-SE (ONE HEAD ONLY).IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 2018091503
 [TESTLAB]
 [TESTDATE] 2018-09-15
 [ISSUEDATE] 2018-09-19 18:44:52
 [LAMPPOSITION] 0,0
 [OTHER]
 [MANUFAC] BEGHELLI
 [LUMINAIRE]
 [LAMP] BBX-HO-SE (ONE HEAD ONLY)

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

CHARACTERISTICS

Lumens Per Lamp	656.57 (1 lamp)
Total Lamp Lumens	656.57
Luminaire Lumens	676
Total Luminaire Efficiency	103 %
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	5.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.12
Spacing Criterion (90-270)	0.18
Spacing Criterion (Diagonal)	0.20
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.09 m (Diameter)
Luminous Width (90-270)	0.09 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	2133	2212	2254
55	2173	2009	2029
65	2514	2124	2242
75	2905	2661	2160
85	4136	3985	1520

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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	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56
2.5	6726.72	6726.64	6734.93	6751.52	6776.35	6809.33	6850.36	6899.32	6956.08	7018.58
5.0	3035.04	3042.73	3060.17	3087.25	3123.86	3157.18	3178.20	3206.96	3242.98	3271.13
7.5	1536.79	1544.38	1556.35	1573.16	1576.70	1583.21	1590.76	1596.34	1599.13	1604.13
10.0	769.69	774.43	785.00	798.70	816.32	838.14	862.58	889.36	912.31	935.17
12.5	637.62	640.50	644.08	645.89	648.82	652.82	660.87	658.63	660.48	661.70
15.0	505.54	508.94	512.29	515.19	519.01	522.84	525.47	527.17	528.91	529.43
17.5	373.46	377.34	381.03	384.96	389.62	392.73	395.67	398.38	399.19	402.83
20.0	241.38	245.73	250.30	254.95	259.63	264.33	269.16	272.68	278.10	282.72
22.5	190.11	193.55	196.07	197.59	198.31	198.82	197.84	196.86	195.48	193.91
25.0	138.84	141.40	143.48	144.98	145.94	146.50	146.60	146.52	146.15	145.81
27.5	87.57	89.21	90.87	92.51	94.10	95.60	97.12	98.34	100.95	100.92
30.0	36.29	36.93	38.31	40.44	43.03	46.09	49.43	52.88	56.31	60.61
32.5	31.81	31.97	31.99	31.89	31.50	31.08	30.47	29.84	28.99	28.06
35.0	27.33	27.46	27.49	27.38	27.06	26.72	26.33	25.57	24.88	24.07
37.5	22.85	22.96	23.01	22.92	22.70	22.43	22.11	21.61	21.03	20.39
40.0	18.36	18.45	18.52	18.51	18.41	18.28	18.11	17.80	17.45	17.03
42.5	13.88	13.95	14.05	14.14	14.29	14.25	14.30	14.23	14.13	13.99
45.0	10.25	10.27	10.35	10.42	10.47	10.57	10.63	10.89	11.06	11.21
47.5	9.17	9.14	9.14	9.13	9.11	9.11	9.04	9.05	9.13	9.22
50.0	8.93	8.88	8.86	8.84	8.86	8.86	8.81	8.84	8.77	8.65
52.5	8.70	8.62	8.57	8.56	8.63	8.61	8.59	8.63	8.49	8.37
55.0	8.47	8.36	8.29	8.29	8.38	8.34	8.40	8.42	8.23	8.08
57.5	8.25	8.09	8.01	8.03	8.14	8.07	8.21	8.20	7.98	7.78
60.0	8.01	7.83	7.73	7.77	7.90	7.80	8.07	7.96	7.71	7.51
62.5	7.61	7.46	7.37	7.43	7.52	7.44	7.69	7.56	7.36	7.24
65.0	7.22	7.08	7.02	7.07	7.11	7.06	7.20	7.08	6.95	6.89
67.5	6.83	6.70	6.66	6.71	6.70	6.67	6.71	6.64	6.56	6.56
70.0	6.43	6.33	6.30	6.33	6.30	6.25	6.23	6.22	6.21	6.23
72.5	5.77	5.68	5.66	5.70	5.68	5.64	5.62	5.66	5.69	5.79
75.0	5.11	5.03	5.01	5.05	5.02	5.00	4.98	5.02	5.07	5.15
77.5	4.44	4.38	4.36	4.40	4.38	4.35	4.34	4.37	4.40	4.50
80.0	3.77	3.72	3.72	3.74	3.73	3.71	3.71	3.72	3.75	3.84
82.5	3.11	3.07	3.07	3.10	3.08	3.07	3.06	3.08	3.11	3.17
85.0	2.45	2.42	2.42	2.44	2.43	2.43	2.42	2.44	2.45	2.50
87.5	1.78	1.77	1.77	1.79	1.79	1.79	1.78	1.79	1.80	1.83
90.0	1.12	1.12	1.13	1.14	1.14	1.15	1.15	1.15	1.15	1.16

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	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56
2.5	7069.16	7107.10	7151.94	7203.49	7342.72	7325.90	7396.39	7472.82	7555.01	7642.81
5.0	3319.21	3344.81	3374.32	3407.24	3525.80	3492.49	3581.14	3668.44	3753.95	3837.45
7.5	1604.80	1601.45	1598.88	1596.28	1587.88	1591.98	1644.73	1688.55	1727.46	1758.15
10.0	955.12	971.27	983.45	995.55	1003.27	1008.19	1012.09	1012.89	1011.27	1010.89
12.5	662.58	663.05	664.08	665.58	667.51	670.69	687.27	700.27	709.13	716.12
15.0	530.53	532.11	533.53	535.24	537.90	541.40	547.51	554.44	562.16	570.65
17.5	405.40	407.68	411.20	415.77	420.81	430.58	436.35	444.49	452.71	461.90
20.0	287.59	293.03	299.67	306.77	314.42	322.60	330.27	338.44	347.04	354.72
22.5	192.33	190.53	194.68	203.40	212.00	220.76	229.35	236.85	243.79	249.88
25.0	145.15	144.02	142.36	139.86	136.67	130.20	132.74	140.93	148.09	153.24
27.5	101.62	101.77	101.10	99.33	95.79	90.99	85.73	80.18	75.09	78.61
30.0	62.15	64.14	65.10	64.47	62.64	59.99	57.03	54.31	51.80	49.54

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32.5	27.07	31.68	35.16	37.25	37.89	38.09	37.78	37.02	36.10	35.00
35.0	23.20	22.38	21.62	20.96	21.19	23.46	24.73	25.29	25.19	25.17
37.5	19.65	19.12	18.61	18.15	17.77	17.34	16.90	17.38	18.09	18.16
40.0	16.62	16.24	15.94	15.67	15.38	15.03	14.73	14.21	13.39	13.52
42.5	13.82	13.71	13.59	13.47	13.26	13.08	12.71	12.12	11.88	11.65
45.0	11.33	11.42	11.49	11.49	11.42	11.31	10.91	10.76	10.63	10.60
47.5	9.33	9.43	9.62	9.75	9.87	9.77	9.69	9.67	9.83	9.83
50.0	8.55	8.48	8.43	8.52	8.54	8.59	8.72	9.08	9.18	9.23
52.5	8.28	8.21	8.09	8.03	8.00	7.94	8.24	8.51	8.75	8.27
55.0	8.00	7.93	7.81	7.75	7.79	7.74	7.95	8.18	7.83	7.66
57.5	7.73	7.60	7.52	7.55	7.63	7.51	7.57	7.56	7.24	7.32
60.0	7.47	7.32	7.26	7.44	7.40	7.10	7.20	6.91	6.89	6.98
62.5	7.20	7.04	7.06	7.34	6.92	6.66	6.64	6.51	6.52	6.60
65.0	6.87	6.79	6.82	7.06	6.34	6.20	6.17	6.15	6.10	6.18
67.5	6.57	6.56	6.53	6.52	5.98	5.88	5.84	5.75	5.65	5.67
70.0	6.31	6.34	6.12	5.97	5.70	5.60	5.53	5.41	5.33	5.26
72.5	5.93	6.02	5.68	5.54	5.42	5.31	5.21	5.09	5.01	4.92
75.0	5.26	5.24	5.03	4.95	4.92	4.87	4.82	4.80	4.68	4.56
77.5	4.58	4.51	4.38	4.31	4.29	4.24	4.20	4.19	4.13	4.06
80.0	3.90	3.81	3.73	3.67	3.66	3.62	3.59	3.58	3.53	3.47
82.5	3.22	3.14	3.09	3.04	3.04	3.01	2.99	2.99	2.94	2.89
85.0	2.54	2.48	2.45	2.44	2.42	2.40	2.39	2.39	2.36	2.33
87.5	1.85	1.82	1.82	1.80	1.80	1.80	1.79	1.80	1.79	1.77
90.0	1.16	1.17	1.19	1.18	1.19	1.20	1.20	1.21	1.21	1.22

Vert. Horizontal Angles
Angles

	<u>50.0</u>	<u>52.5</u>	<u>55.0</u>	<u>57.5</u>	<u>60.0</u>	<u>62.5</u>	<u>65.0</u>	<u>67.5</u>	<u>70.0</u>	<u>72.5</u>
0.0	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56
2.5	7688.98	7825.08	7918.26	8000.54	8088.39	8181.80	8280.80	8385.42	8495.72	8611.76
5.0	3918.84	3970.16	4074.35	4148.95	4223.20	4297.78	4373.57	4451.55	4532.82	4618.61
7.5	1780.65	1773.55	1814.89	1849.46	1888.21	1940.92	1987.64	1989.66	2074.90	2129.25
10.0	1008.22	992.16	1016.73	1036.38	1051.15	1061.57	1071.05	1090.55	1117.84	1142.95
12.5	722.20	725.35	728.66	731.81	733.65	737.28	746.17	753.53	759.72	758.70
15.0	578.75	584.27	588.00	591.02	591.71	597.12	601.25	605.43	608.77	613.03
17.5	469.87	479.45	488.89	493.50	495.11	496.28	498.29	500.95	504.53	506.15
20.0	362.24	369.02	375.24	380.79	384.79	383.74	382.17	381.60	383.82	388.50
22.5	255.05	257.24	257.55	255.50	251.66	246.19	240.98	239.55	240.69	241.30
25.0	155.91	155.99	153.57	150.22	146.24	142.58	141.57	139.36	140.74	140.98
27.5	84.63	87.01	87.95	87.11	88.76	88.72	89.15	89.54	90.69	90.00
30.0	47.41	49.31	52.31	54.00	56.06	56.64	55.47	55.49	54.41	54.18
32.5	33.87	32.73	31.73	33.57	35.08	35.39	35.13	34.80	34.49	34.25
35.0	24.60	24.07	23.70	22.93	23.12	23.50	23.65	23.69	23.82	23.79
37.5	18.29	18.24	17.73	17.45	17.13	17.17	17.50	17.61	17.72	17.85
40.0	14.00	14.13	14.11	14.14	14.04	13.91	13.87	14.07	14.26	14.54
42.5	11.45	11.59	11.86	11.96	11.91	11.79	11.75	11.83	12.11	12.35
45.0	10.51	10.42	10.33	10.31	10.30	10.32	10.36	10.43	10.47	10.47
47.5	9.80	9.54	9.28	9.16	9.21	9.31	9.34	9.32	9.37	9.43
50.0	8.83	8.70	8.64	8.58	8.55	8.56	8.58	8.65	8.74	8.80
52.5	8.18	8.20	8.21	8.24	8.16	8.04	8.04	8.14	8.22	8.29
55.0	7.78	7.87	7.97	7.94	7.83	7.75	7.69	7.68	7.75	7.83
57.5	7.49	7.72	7.75	7.65	7.57	7.48	7.36	7.22	7.28	7.42
60.0	7.21	7.41	7.47	7.42	7.31	7.14	6.94	6.86	6.85	6.96
62.5	6.76	6.91	7.00	7.09	6.97	6.67	6.50	6.42	6.42	6.50
65.0	6.29	6.37	6.54	6.60	6.41	6.17	6.02	5.99	5.99	5.97
67.5	5.76	5.94	6.13	6.09	5.82	5.58	5.55	5.54	5.51	5.51

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70.0	5.31	5.55	5.74	5.55	5.18	4.95	4.95	5.02	5.06	4.96
72.5	4.95	5.15	5.26	4.96	4.47	4.32	4.32	4.37	4.36	4.34
75.0	4.52	4.58	4.57	4.25	3.89	3.69	3.67	3.66	3.63	3.63
77.5	4.00	3.98	3.92	3.69	3.49	3.32	3.15	2.99	2.91	2.92
80.0	3.42	3.42	3.34	3.23	3.11	2.97	2.83	2.64	2.42	2.21
82.5	2.86	2.87	2.79	2.75	2.60	2.54	2.45	2.34	2.18	2.00
85.0	2.31	2.32	2.30	2.27	2.14	2.09	2.03	1.93	1.85	1.77
87.5	1.76	1.78	1.85	1.79	1.67	1.66	1.63	1.58	1.53	1.49
90.0	1.22	1.24	1.38	1.32	1.22	1.24	1.23	1.23	1.23	1.23

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	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56
2.5	8733.61	8861.35	8995.06	9134.85	9280.78	9432.95	9591.43	9629.23	9673.53	9724.43
5.0	4710.22	4809.06	4804.88	4968.66	5133.40	5298.78	5464.48	5481.91	5499.31	5516.64
7.5	2184.51	2241.97	2302.95	2368.86	2441.13	2521.22	2610.61	2619.85	2640.59	2673.55
10.0	1166.85	1190.60	1215.30	1216.57	1260.02	1303.65	1347.36	1337.20	1327.05	1316.95
12.5	776.21	787.54	799.11	811.45	825.12	840.68	858.70	852.21	848.67	847.95
15.0	617.71	620.70	624.19	628.43	630.54	639.10	647.68	639.79	631.92	631.76
17.5	508.14	510.75	510.54	511.58	513.97	517.79	523.12	517.14	512.79	510.07
20.0	389.48	390.95	391.97	391.64	389.49	396.67	403.86	396.75	389.65	391.17
22.5	242.69	238.11	243.47	245.09	248.91	253.66	261.35	257.25	255.52	255.97
25.0	141.35	142.96	143.78	144.58	145.52	146.83	151.28	148.97	149.92	151.39
27.5	90.29	91.35	92.30	93.71	94.49	96.07	98.51	97.50	97.38	98.14
30.0	54.59	55.26	56.09	56.58	56.99	57.43	59.57	58.40	59.06	59.87
32.5	34.45	35.28	36.11	36.95	37.04	36.98	37.30	37.13	37.32	37.50
35.0	23.80	23.75	23.99	24.18	24.32	24.39	24.98	24.74	25.12	25.46
37.5	17.96	18.18	18.23	18.27	18.32	18.42	18.68	18.71	18.87	18.98
40.0	14.84	15.18	15.01	14.78	14.66	14.63	14.82	14.83	15.12	15.37
42.5	12.38	12.38	12.37	12.35	12.40	12.41	12.46	12.43	12.47	12.61
45.0	10.43	10.50	10.58	10.76	10.91	10.86	10.83	10.79	10.86	10.90
47.5	9.50	9.59	9.67	9.84	10.04	10.01	9.94	9.88	9.87	9.89
50.0	8.86	8.91	8.98	9.07	9.21	9.16	9.09	9.09	9.12	9.07
52.5	8.36	8.39	8.40	8.42	8.56	8.55	8.40	8.46	8.47	8.41
55.0	7.98	7.99	7.96	7.95	8.05	8.03	7.91	8.02	7.94	7.88
57.5	7.60	7.74	7.69	7.63	7.65	7.69	7.51	7.59	7.47	7.51
60.0	7.21	7.54	7.49	7.36	7.34	7.42	7.17	7.16	7.22	7.13
62.5	6.72	7.11	7.25	7.05	6.94	7.03	6.86	6.90	7.19	6.85
65.0	6.10	6.41	6.83	6.67	6.55	6.55	6.44	6.66	6.85	6.38
67.5	5.53	5.74	6.11	6.24	6.00	5.97	5.95	6.29	6.04	5.69
70.0	4.94	5.00	5.36	5.69	5.42	5.43	5.63	5.44	5.02	5.01
72.5	4.31	4.39	4.54	4.79	4.80	4.91	4.93	4.44	4.39	4.36
75.0	3.68	3.75	3.81	3.95	4.14	4.27	3.80	3.76	3.78	3.68
77.5	2.99	3.07	3.08	3.12	3.39	3.28	3.06	3.04	3.07	2.98
80.0	2.27	2.32	2.38	2.39	2.47	2.39	2.31	2.31	2.28	2.27
82.5	1.79	1.59	1.64	1.72	1.60	1.64	1.58	1.62	1.56	1.63
85.0	1.68	1.50	1.19	1.02	0.96	0.92	0.90	0.91	0.97	0.92
87.5	1.45	1.37	1.28	1.16	0.66	0.46	0.34	0.43	0.40	0.55
90.0	1.23	1.23	1.23	1.23	1.23	1.23	0.03	0.31	0.55	0.72

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	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56
2.5	9782.02	9846.36	9917.53	9995.53	10080.40	10172.10	10270.62	10375.88	10487.81	10606.29

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PHOTOMETRIC FILENAME : BBX-HO-SE (ONE HEAD ONLY).IES

CANDELA TABULATION - (Cont.)

5.0	5533.87	5764.14	5876.55	6006.86	6155.13	6329.89	6505.57	6707.61	6927.34	7164.54
7.5	2719.42	2778.83	2853.58	2940.54	3043.83	3095.83	3317.71	3477.53	3650.25	3821.84
10.0	1362.75	1384.08	1412.32	1447.43	1489.34	1537.95	1575.15	1631.46	1701.09	1773.15
12.5	849.97	854.59	861.72	861.21	887.96	898.74	910.87	924.03	939.55	951.19
15.0	630.00	630.07	631.62	630.64	630.15	633.76	634.25	632.27	626.27	630.14
17.5	509.01	508.81	506.68	504.08	501.78	496.96	493.46	490.77	488.80	486.64
20.0	390.60	389.17	387.38	385.82	382.00	377.78	377.30	376.46	374.92	372.03
22.5	257.98	255.39	260.48	260.12	260.39	261.88	263.07	266.22	266.97	266.60
25.0	152.93	154.42	154.85	156.66	158.90	159.48	163.60	166.49	170.81	174.05
27.5	98.38	99.28	99.84	100.79	102.48	102.53	102.85	103.24	104.24	103.40
30.0	60.60	60.85	61.23	62.41	63.41	64.94	65.24	66.01	65.75	64.32
32.5	37.22	37.79	38.20	38.74	39.36	40.03	40.64	41.36	41.43	40.28
35.0	25.71	25.83	26.11	26.27	26.64	27.00	27.54	27.63	27.52	27.15
37.5	19.11	19.32	19.30	19.38	19.44	19.58	19.72	19.93	20.47	21.00
40.0	15.59	15.74	15.60	15.53	15.55	15.58	15.55	15.63	15.88	16.25
42.5	12.92	13.08	13.08	13.08	13.06	13.03	13.11	13.23	13.29	13.33
45.0	10.97	11.05	11.16	11.28	11.28	11.28	11.39	11.53	11.60	11.54
47.5	9.94	10.00	10.12	10.22	10.29	10.24	10.11	10.14	10.24	10.38
50.0	9.12	9.28	9.45	9.62	9.51	9.39	9.28	9.25	9.22	9.37
52.5	8.59	8.79	8.93	8.91	8.74	8.65	8.61	8.55	8.53	8.54
55.0	8.23	8.52	8.69	8.34	8.07	7.90	7.84	7.91	7.94	7.94
57.5	7.97	8.49	8.30	7.80	7.45	7.30	7.31	7.29	7.30	7.38
60.0	7.17	7.48	7.42	7.11	6.81	6.89	6.90	6.87	6.82	6.78
62.5	6.58	6.45	6.32	6.21	6.41	6.51	6.59	6.55	6.48	6.33
65.0	5.99	5.82	5.73	5.78	5.95	6.17	6.29	6.30	6.10	5.93
67.5	5.46	5.34	5.26	5.31	5.51	5.77	5.93	5.78	5.60	5.46
70.0	4.87	4.82	4.77	4.79	4.96	5.25	5.32	5.20	5.05	4.93
72.5	4.22	4.21	4.22	4.27	4.35	4.63	4.83	4.65	4.44	4.37
75.0	3.60	3.62	3.67	3.62	3.67	3.97	4.35	4.32	3.88	3.77
77.5	2.95	2.99	2.98	2.95	2.95	3.26	3.56	3.49	3.23	3.15
80.0	2.30	2.27	2.25	2.24	2.29	2.39	2.55	2.53	2.51	2.55
82.5	1.57	1.55	1.60	1.65	1.68	1.74	1.85	1.92	1.97	2.00
85.0	0.94	1.00	1.10	1.20	1.27	1.32	1.36	1.41	1.43	1.46
87.5	0.70	0.81	0.88	0.91	0.92	0.92	0.91	0.91	0.92	0.92
90.0	0.74	0.74	0.73	0.67	0.60	0.54	0.47	0.43	0.42	0.40

Vert. Angles **Horizontal Angles**

	<u>125.0</u>	<u>127.5</u>	<u>130.0</u>	<u>132.5</u>	<u>135.0</u>	<u>137.5</u>	<u>140.0</u>	<u>142.5</u>	<u>145.0</u>	<u>147.5</u>
0.0	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56
2.5	10731.18	10836.62	10868.75	11039.77	11138.00	11238.69	11375.71	11453.29	11553.56	11662.04
5.0	7418.92	7622.91	8007.44	8338.63	8688.91	9057.63	9444.07	9854.78	10118.20	10355.93
7.5	3933.38	3995.48	4318.95	4561.39	4809.03	5061.32	5375.77	5695.21	5954.62	6164.24
10.0	1846.99	1869.05	2051.59	2148.98	2227.22	2289.42	2333.67	2338.02	2439.39	2503.98
12.5	958.13	967.95	984.47	989.93	995.37	992.96	969.60	931.60	966.70	1006.00
15.0	627.32	624.59	622.90	624.22	631.57	638.96	653.42	668.55	689.38	709.68
17.5	481.96	476.58	472.71	470.70	471.07	475.44	483.19	490.01	493.39	508.03
20.0	369.60	366.49	362.81	358.65	354.59	352.72	352.12	352.68	357.19	360.00
22.5	264.53	261.99	259.04	256.68	253.61	249.68	246.72	244.70	243.45	242.09
25.0	176.54	176.69	174.54	169.52	164.05	158.55	153.15	152.12	161.48	169.28
27.5	106.97	107.94	106.88	101.68	99.07	101.57	105.04	109.46	114.18	119.13
30.0	63.93	62.16	62.06	66.16	69.98	73.14	75.18	76.46	77.98	79.03
32.5	38.82	40.49	42.49	44.48	46.81	49.22	51.35	51.75	50.88	49.48
35.0	28.11	29.02	29.87	30.59	31.11	31.67	31.79	31.90	30.07	30.61
37.5	21.25	21.68	21.83	21.79	21.41	20.59	20.25	21.47	23.93	25.38
40.0	16.60	16.75	16.68	16.17	16.01	16.54	17.22	17.93	18.94	21.01

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

42.5	13.37	13.26	13.23	13.77	14.11	14.36	14.77	15.28	15.77	16.55
45.0	11.39	11.54	11.73	12.00	12.40	12.66	12.81	13.10	13.35	13.56
47.5	10.43	10.46	10.60	10.71	10.91	11.15	11.26	11.32	11.40	11.37
50.0	9.74	9.71	9.65	9.75	9.79	9.86	9.91	9.85	9.83	9.78
52.5	8.72	9.19	9.05	8.93	8.93	8.88	8.85	8.80	8.84	8.93
55.0	7.93	8.16	8.68	8.32	8.25	8.18	8.21	8.18	8.20	8.25
57.5	7.40	7.35	7.74	8.06	7.75	7.67	7.62	7.64	7.62	7.58
60.0	6.85	6.83	6.82	7.22	7.40	7.27	7.06	7.09	7.05	6.99
62.5	6.29	6.34	6.27	6.32	6.66	6.86	6.60	6.54	6.54	6.43
65.0	5.81	5.81	5.81	5.75	5.84	6.33	6.33	5.98	6.03	5.95
67.5	5.37	5.33	5.35	5.24	5.21	5.44	5.89	5.60	5.53	5.51
70.0	4.90	4.90	4.87	4.78	4.76	4.78	5.17	5.34	5.06	5.07
72.5	4.34	4.34	4.30	4.29	4.28	4.31	4.48	4.82	4.68	4.60
75.0	3.77	3.79	3.76	3.76	3.80	3.87	3.87	4.01	4.26	4.00
77.5	3.17	3.24	3.20	3.19	3.22	3.28	3.30	3.34	3.70	3.39
80.0	2.59	2.65	2.63	2.63	2.64	2.69	2.71	2.70	3.06	2.78
82.5	2.03	2.08	2.08	2.06	2.08	2.11	2.13	2.11	2.41	2.19
85.0	1.48	1.51	1.52	1.51	1.52	1.53	1.55	1.54	1.73	1.60
87.5	0.93	0.96	0.95	0.95	0.96	0.97	0.97	0.97	1.08	1.00
90.0	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40

**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	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56
2.5	11771.88	11882.83	11994.62	12066.37	12098.05	12123.62	12147.29	12169.03	12188.79	12206.56
5.0	10603.79	10861.66	11129.45	11251.62	11475.19	11618.94	11771.46	11932.82	11983.22	11968.77
7.5	6413.00	6655.97	6891.70	7091.54	7255.13	7424.82	7531.18	7609.34	7668.76	7738.54
10.0	2526.59	2582.19	2591.39	2579.12	2547.36	2492.19	2403.67	2314.34	2203.00	1913.18
12.5	1047.43	1096.33	1151.10	1209.28	1271.03	1323.44	1391.02	1441.87	1487.94	1509.51
15.0	740.84	771.77	806.86	838.06	891.24	939.46	987.05	1032.61	1069.94	1099.92
17.5	520.59	532.79	549.05	571.68	584.93	615.34	639.51	662.29	683.10	696.92
20.0	361.62	363.20	363.92	363.76	361.66	354.84	349.99	339.67	326.62	312.37
22.5	239.66	237.94	240.12	241.04	241.42	241.25	240.40	239.10	237.00	234.48
25.0	175.36	180.19	183.11	184.16	183.98	182.87	182.20	180.67	178.61	176.23
27.5	123.95	127.52	129.49	129.92	128.85	126.96	125.06	122.67	120.29	117.83
30.0	80.82	81.68	81.20	79.29	76.30	72.68	69.07	65.51	62.26	59.45
32.5	46.82	43.71	39.41	41.03	42.48	43.92	45.29	46.45	47.23	47.80
35.0	31.24	31.79	33.20	34.61	35.90	37.04	38.27	39.34	40.03	40.52
37.5	26.59	26.88	27.40	28.70	29.76	30.68	31.54	32.35	32.94	33.31
40.0	21.85	22.57	22.63	23.30	23.99	24.60	25.12	25.59	25.95	26.16
42.5	17.88	18.28	18.36	18.35	18.67	18.87	19.00	19.04	19.10	19.08
45.0	14.06	14.34	14.31	13.98	13.78	13.47	13.15	13.06	13.03	12.99
47.5	11.16	11.00	10.88	10.75	10.52	10.34	10.46	10.51	10.60	10.71
50.0	9.51	9.47	9.51	9.63	9.60	9.63	9.72	9.81	9.90	10.00
52.5	8.93	8.89	8.91	9.00	8.92	8.93	8.99	9.10	9.19	9.28
55.0	8.27	8.31	8.31	8.42	8.31	8.23	8.26	8.39	8.50	8.57
57.5	7.62	7.67	7.74	7.84	7.79	7.55	7.54	7.67	7.80	7.87
60.0	6.96	6.99	7.16	7.23	7.27	6.88	6.81	6.96	7.10	7.16
62.5	6.33	6.30	6.56	6.60	6.71	6.31	6.25	6.36	6.58	6.72
65.0	5.80	5.78	5.92	5.98	6.09	5.79	5.74	5.84	6.09	6.30
67.5	5.32	5.26	5.31	5.39	5.43	5.29	5.23	5.31	5.59	5.89
70.0	4.87	4.73	4.73	4.78	4.79	4.76	4.72	4.78	5.09	5.48
72.5	4.47	4.22	4.20	4.20	4.20	4.21	4.18	4.23	4.50	4.85
75.0	3.95	3.68	3.65	3.65	3.66	3.66	3.67	3.69	3.92	4.22
77.5	3.39	3.13	3.12	3.11	3.12	3.12	3.13	3.15	3.34	3.60

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CANDELA TABULATION - (Cont.)

80.0	2.80	2.59	2.57	2.57	2.57	2.59	2.60	2.62	2.76	2.96
82.5	2.20	2.05	2.03	2.03	2.04	2.05	2.06	2.08	2.18	2.36
85.0	1.60	1.51	1.49	1.48	1.49	1.51	1.53	1.55	1.62	1.75
87.5	1.01	0.96	0.94	0.94	0.95	0.96	1.00	1.02	1.05	1.13
90.0	0.40	0.40	0.40	0.40	0.41	0.43	0.47	0.49	0.49	0.52

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	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56
2.5	12222.30	12235.98	12247.60	12152.87	12056.28	11958.06	11858.44	11757.65	11655.92	11553.49
5.0	11962.81	11965.45	11976.80	11797.17	11626.33	11464.22	11310.81	11234.92	10764.58	10445.12
7.5	7660.69	7614.12	7599.52	7431.20	7293.61	7184.99	6935.07	6691.10	6462.47	6166.08
10.0	1920.22	1886.85	1853.42	1768.18	1683.10	1577.88	1748.02	1755.30	1753.54	1740.68
12.5	1523.40	1494.16	1460.49	1381.74	1318.14	1200.45	1099.11	994.93	899.02	810.79
15.0	1108.93	1096.02	1067.56	1004.19	933.93	853.41	769.85	690.98	622.16	568.30
17.5	700.78	693.98	674.63	636.79	593.38	546.13	496.70	455.47	420.89	392.79
20.0	287.62	285.24	281.69	276.89	271.32	280.13	278.95	275.89	272.82	268.00
22.5	231.85	228.61	224.93	221.16	217.45	213.40	209.28	205.31	201.94	199.13
25.0	173.71	171.05	168.17	165.47	162.54	159.62	156.80	154.30	152.39	150.43
27.5	115.52	113.43	111.40	109.62	108.22	106.88	105.82	105.18	104.97	105.05
30.0	55.02	55.14	54.64	53.75	52.57	55.24	56.41	57.81	59.62	61.64
32.5	48.01	47.92	47.42	46.67	45.76	44.56	43.20	41.68	40.22	38.93
35.0	40.74	40.62	40.19	39.56	38.77	37.71	36.55	35.30	34.15	33.10
37.5	33.47	33.34	32.97	32.47	31.88	31.01	30.17	29.19	28.43	27.53
40.0	26.20	25.97	25.75	25.32	24.99	24.44	23.87	23.34	22.86	22.30
42.5	18.97	18.77	18.53	18.35	18.19	18.01	17.82	17.71	17.65	17.41
45.0	12.92	12.77	12.61	12.55	12.53	12.50	12.54	12.59	12.66	12.94
47.5	10.77	10.72	10.61	10.56	10.51	10.43	10.42	10.42	10.40	10.42
50.0	10.06	10.01	9.91	9.86	9.83	9.75	9.80	9.84	9.80	9.84
52.5	9.35	9.31	9.22	9.18	9.15	9.08	9.21	9.27	9.21	9.27
55.0	8.63	8.59	8.53	8.49	8.47	8.42	8.63	8.68	8.62	8.68
57.5	7.92	7.88	7.83	7.79	7.79	7.76	8.06	8.09	8.02	8.08
60.0	7.18	7.17	7.13	7.10	7.09	7.11	7.51	7.49	7.42	7.49
62.5	6.77	6.70	6.58	6.52	6.52	6.52	6.89	6.84	6.84	6.88
65.0	6.34	6.22	6.02	5.92	5.92	5.95	6.24	6.24	6.26	6.29
67.5	5.91	5.75	5.46	5.32	5.34	5.38	5.59	5.64	5.69	5.75
70.0	5.47	5.28	4.90	4.72	4.73	4.81	4.93	5.04	5.11	5.20
72.5	4.92	4.77	4.39	4.22	4.24	4.29	4.38	4.48	4.53	4.64
75.0	4.34	4.27	3.87	3.71	3.72	3.77	3.84	3.94	3.98	4.07
77.5	3.76	3.76	3.35	3.20	3.21	3.24	3.31	3.38	3.41	3.49
80.0	3.16	3.25	2.83	2.70	2.70	2.71	2.77	2.83	2.85	2.92
82.5	2.58	2.74	2.32	2.20	2.19	2.20	2.23	2.27	2.28	2.35
85.0	2.00	2.23	1.80	1.69	1.68	1.68	1.69	1.71	1.71	1.76
87.5	1.42	1.71	1.28	1.19	1.16	1.15	1.15	1.15	1.14	1.17
90.0	0.83	1.20	0.76	0.68	0.65	0.63	0.61	0.59	0.57	0.57

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	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56
2.5	11450.59	11347.45	11292.28	11007.78	10823.09	10641.73	10464.10	10296.50	10151.87	9957.36
5.0	10134.55	9832.83	9485.42	9104.28	8732.85	8371.32	8019.92	7760.21	7231.35	6825.30
7.5	5852.51	5537.20	5219.53	4894.68	4556.42	4242.72	3969.17	3686.61	3365.47	3129.73
10.0	1725.65	1680.65	1631.21	1577.78	1487.82	1431.20	1348.63	1263.98	1186.01	1101.26
12.5	743.26	684.82	638.02	603.14	577.48	563.65	551.37	541.87	551.76	553.92

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CANDELA TABULATION - (Cont.)

15.0	526.50	487.45	469.37	456.77	447.23	438.69	429.37	422.53	411.77	406.26
17.5	373.15	363.15	353.97	349.62	342.11	334.29	326.31	316.91	307.80	300.61
20.0	266.14	264.64	262.33	260.12	252.85	245.34	237.31	230.12	224.02	219.70
22.5	196.56	193.33	188.55	181.82	175.84	168.43	162.19	157.22	153.86	152.07
25.0	149.08	145.95	140.91	133.59	124.43	115.08	106.28	98.40	96.44	98.73
27.5	104.97	102.30	98.17	92.33	85.94	79.81	75.00	71.50	68.37	65.28
30.0	63.27	63.78	62.13	59.75	57.03	54.87	53.29	51.17	49.05	46.81
32.5	37.53	35.67	33.73	35.31	36.62	36.77	35.99	35.62	34.45	33.49
35.0	31.73	30.06	28.52	27.40	26.20	23.96	22.98	23.80	24.12	24.15
37.5	26.34	25.08	23.93	23.43	21.58	20.29	19.21	18.36	17.74	17.61
40.0	21.46	20.69	20.39	19.27	18.08	17.24	16.50	15.97	15.33	14.91
42.5	17.11	16.83	16.73	15.93	15.33	14.75	14.29	13.84	13.52	13.07
45.0	13.24	13.54	13.53	13.34	12.98	12.65	12.40	12.20	11.97	11.64
47.5	10.69	11.01	11.18	11.11	10.96	10.91	10.86	10.86	10.70	10.59
50.0	9.95	10.05	10.09	9.87	9.59	9.62	9.70	9.74	9.78	9.77
52.5	9.35	9.42	9.43	9.20	9.02	8.94	8.98	9.00	9.06	9.06
55.0	8.73	8.80	8.79	8.60	8.46	8.43	8.42	8.45	8.45	8.48
57.5	8.10	8.18	8.19	8.02	7.90	7.91	7.90	7.97	7.84	7.77
60.0	7.48	7.59	7.62	7.47	7.38	7.36	7.39	7.27	7.22	7.03
62.5	6.90	7.06	7.09	6.93	6.86	6.82	6.91	6.65	6.51	6.35
65.0	6.41	6.58	6.53	6.43	6.41	6.29	6.32	6.01	5.82	5.70
67.5	5.98	6.05	6.00	5.98	5.93	5.76	5.57	5.43	5.24	5.12
70.0	5.60	5.51	5.51	5.55	5.42	5.19	5.03	4.87	4.73	4.63
72.5	5.11	4.94	4.98	5.12	4.85	4.61	4.50	4.36	4.23	4.16
75.0	4.45	4.32	4.36	4.47	4.14	4.01	3.94	3.86	3.74	3.70
77.5	3.79	3.69	3.74	3.81	3.50	3.42	3.36	3.37	3.18	3.14
80.0	3.14	3.07	3.11	3.17	2.90	2.84	2.78	2.94	2.64	2.60
82.5	2.48	2.44	2.47	2.50	2.30	2.26	2.22	2.48	2.11	2.07
85.0	1.84	1.82	1.84	1.85	1.72	1.70	1.65	1.94	1.58	1.53
87.5	1.20	1.19	1.20	1.20	1.14	1.13	1.12	1.41	1.05	1.00
90.0	0.56	0.56	0.56	0.56	0.56	0.56	0.57	0.92	0.52	0.48

**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	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56
2.5	9798.33	9644.78	9496.99	9355.22	9298.52	9047.44	8903.13	8767.75	8641.46	8524.38
5.0	6439.36	6074.29	5730.77	5409.36	5318.70	4929.75	4722.75	4532.47	4359.05	4205.02
7.5	2851.65	2645.40	2444.38	2249.14	2112.45	1999.31	1867.48	1740.25	1622.87	1515.77
10.0	1022.62	967.03	916.78	857.84	825.56	805.85	785.07	763.53	751.80	723.59
12.5	551.03	543.36	530.83	513.09	502.75	498.32	494.35	493.88	487.04	484.16
15.0	394.43	385.69	381.01	377.10	374.24	371.53	368.33	366.92	365.88	364.40
17.5	294.93	290.91	288.59	287.52	287.36	286.25	286.71	282.66	281.70	281.43
20.0	216.65	215.24	214.27	213.68	214.19	215.78	216.45	214.05	212.10	206.27
22.5	151.81	152.47	154.50	153.21	151.31	147.64	143.42	138.64	134.01	131.05
25.0	100.89	101.80	100.69	98.24	94.92	91.32	88.55	85.85	84.02	82.13
27.5	62.55	62.18	62.34	61.50	60.21	58.93	57.75	56.38	55.07	53.89
30.0	44.74	42.67	40.79	40.34	40.16	39.64	39.08	38.28	37.38	36.50
32.5	32.36	31.28	30.12	29.17	28.34	28.11	27.75	27.14	26.47	26.06
35.0	23.78	23.38	23.12	22.47	21.88	21.26	20.79	20.35	19.99	19.45
37.5	17.98	18.00	17.77	17.55	17.21	16.79	16.38	16.01	15.67	15.34
40.0	14.35	14.03	14.25	14.24	14.07	13.87	13.69	13.31	12.93	12.65
42.5	12.62	12.34	12.08	12.05	12.11	11.92	11.66	11.37	11.13	10.96
45.0	11.43	11.23	11.05	10.91	10.67	10.60	10.40	10.20	10.01	9.85
47.5	10.48	10.36	10.21	9.99	9.86	9.66	9.51	9.41	9.30	9.22
50.0	9.71	9.62	9.41	9.21	9.01	8.94	8.97	8.90	8.76	8.65

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

52.5	9.08	8.87	8.64	8.45	8.38	8.39	8.35	8.28	8.16	8.06
55.0	8.36	8.15	7.96	7.86	7.83	7.80	7.70	7.61	7.63	7.71
57.5	7.60	7.44	7.36	7.32	7.31	7.19	7.07	7.07	7.23	7.31
60.0	6.88	6.79	6.76	6.79	6.72	6.59	6.53	6.58	6.57	6.54
62.5	6.23	6.19	6.20	6.22	6.16	6.04	5.97	5.92	5.84	5.77
65.0	5.63	5.60	5.69	5.72	5.70	5.65	5.51	5.23	5.09	5.09
67.5	5.06	5.08	5.21	5.32	5.40	5.38	5.10	4.67	4.52	4.56
70.0	4.58	4.63	4.80	5.04	5.15	5.09	4.54	4.21	4.12	4.13
72.5	4.10	4.14	4.26	4.54	4.86	4.64	4.03	3.80	3.73	3.68
75.0	3.63	3.59	3.68	3.90	4.20	3.87	3.48	3.40	3.31	3.23
77.5	3.09	3.03	3.09	3.28	3.55	3.18	2.80	2.77	2.75	2.76
80.0	2.54	2.50	2.54	2.75	2.87	2.48	2.19	2.15	2.11	2.08
82.5	2.01	1.98	2.00	2.17	2.18	1.81	1.68	1.62	1.55	1.44
85.0	1.48	1.45	1.45	1.56	1.52	1.25	1.18	1.14	1.09	0.99
87.5	0.96	0.92	0.88	0.92	0.89	0.74	0.71	0.67	0.65	0.60
90.0	0.44	0.39	0.31	0.29	0.28	0.25	0.23	0.22	0.22	0.22

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	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56
2.5	8416.60	8318.19	8229.19	8149.59	8079.37	8018.50	7966.91	7924.50	7891.16	7762.97
5.0	4063.15	3940.67	3835.08	3746.26	3674.02	3618.13	3578.31	3554.26	3545.62	3451.60
7.5	1461.38	1405.26	1373.85	1352.56	1335.49	1324.83	1320.74	1323.35	1332.81	1301.17
10.0	702.50	684.87	670.68	659.89	652.43	648.26	647.30	649.47	654.68	647.66
12.5	481.99	479.33	478.91	472.44	470.83	470.46	471.38	473.61	477.18	473.83
15.0	364.63	361.70	361.64	360.75	360.53	361.26	362.96	365.68	369.44	367.02
17.5	281.56	280.06	278.53	279.35	275.18	273.91	273.65	274.46	276.42	274.31
20.0	204.92	205.48	201.77	199.51	197.12	194.25	192.67	192.39	193.45	190.41
22.5	129.76	126.68	125.36	122.60	121.19	119.21	117.92	117.59	118.26	116.44
25.0	80.81	79.43	79.65	77.94	76.85	75.78	74.71	74.31	74.62	73.60
27.5	52.99	51.91	51.30	50.82	50.52	49.82	49.18	48.94	49.13	48.44
30.0	35.56	34.95	34.36	34.02	33.70	33.16	32.65	32.43	32.56	32.14
32.5	25.69	25.37	25.07	24.82	24.65	24.33	23.87	23.41	23.21	22.77
35.0	18.98	18.50	18.21	17.92	17.66	17.42	17.14	16.87	16.75	16.62
37.5	15.04	14.86	14.75	14.50	14.11	13.86	13.80	13.90	14.11	13.85
40.0	12.41	12.24	12.13	12.06	11.86	11.68	11.66	11.82	12.05	11.92
42.5	10.81	10.67	10.55	10.48	10.39	10.28	10.16	10.12	10.12	9.98
45.0	9.73	9.68	9.65	9.59	9.55	9.39	9.26	9.20	9.21	9.14
47.5	9.14	9.07	9.00	8.98	8.95	8.78	8.59	8.55	8.61	8.58
50.0	8.53	8.48	8.43	8.38	8.31	8.16	7.93	7.92	8.02	8.02
52.5	8.04	8.00	7.90	7.74	7.64	7.57	7.34	7.31	7.44	7.46
55.0	7.67	7.47	7.30	7.18	7.06	6.99	6.81	6.76	6.90	6.86
57.5	7.12	6.93	6.75	6.61	6.49	6.42	6.36	6.34	6.42	6.34
60.0	6.56	6.37	6.21	6.13	6.03	5.99	5.99	5.95	6.04	5.91
62.5	5.78	5.79	5.71	5.52	5.47	5.51	5.57	5.45	5.61	5.49
65.0	5.14	5.16	5.08	5.04	5.07	5.08	5.09	5.02	5.17	5.14
67.5	4.60	4.57	4.62	4.65	4.66	4.67	4.64	4.67	4.87	4.53
70.0	4.12	4.12	4.15	4.20	4.25	4.36	4.32	4.25	4.23	3.97
72.5	3.66	3.67	3.66	3.70	3.77	3.90	3.92	3.82	3.59	3.53
75.0	3.18	3.15	3.13	3.12	3.18	3.28	3.35	3.22	3.05	3.00
77.5	2.66	2.60	2.55	2.52	2.55	2.64	2.62	2.60	2.49	2.38
80.0	2.05	2.06	1.98	1.90	1.89	1.90	1.83	1.81	1.82	1.67
82.5	1.34	1.27	1.26	1.18	1.11	0.97	0.94	0.95	1.01	0.90
85.0	0.88	0.70	0.51	0.46	0.44	0.41	0.21	0.16	0.15	0.13
87.5	0.53	0.43	0.34	0.28	0.15	0.06	0.09	0.04	0.07	0.07

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

90.0	0.22	0.22	0.22	0.26	0.31	0.33	0.34	0.27	0.03	1.04
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	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56
2.5	7643.46	7532.35	7429.36	7334.19	7246.56	7166.18	7092.78	7026.09	6965.86	6911.87
5.0	3371.12	3302.64	3244.67	3195.70	3154.28	3118.99	3088.49	3061.50	3036.83	3013.40
7.5	1275.57	1255.08	1238.79	1225.79	1215.18	1206.14	1211.68	1206.24	1221.34	1229.94
10.0	643.28	641.19	641.07	642.61	645.48	649.39	654.04	659.16	669.24	671.00
12.5	471.70	470.64	470.49	471.11	475.30	474.66	476.24	477.51	479.34	484.56
15.0	365.69	365.51	366.43	368.53	371.78	372.05	375.90	374.93	374.37	373.76
17.5	273.35	273.51	274.73	279.32	276.58	276.83	277.22	275.46	275.25	276.18
20.0	188.73	188.42	189.47	189.90	189.82	190.59	187.50	186.20	187.00	185.69
22.5	115.70	115.42	115.75	115.62	116.67	116.47	118.03	116.18	115.33	116.44
25.0	73.27	73.59	73.85	74.03	74.62	73.40	73.40	73.30	74.81	76.30
27.5	48.19	48.37	48.54	48.14	47.78	47.52	47.89	47.99	48.46	48.98
30.0	32.05	32.15	32.14	31.89	31.69	31.72	31.88	32.12	32.31	32.59
32.5	22.52	22.33	22.21	22.32	22.43	22.46	22.49	22.57	22.65	22.72
35.0	16.64	16.69	16.70	16.80	16.82	16.75	16.73	16.66	16.76	16.81
37.5	13.67	13.49	13.33	13.29	13.31	13.29	13.27	13.28	13.20	13.01
40.0	11.79	11.56	11.26	11.03	11.08	11.12	11.13	11.13	11.06	11.10
42.5	9.89	9.84	9.82	9.79	9.82	9.89	9.97	10.01	9.97	9.90
45.0	9.09	9.09	9.12	9.09	9.09	9.07	9.08	9.13	9.20	9.20
47.5	8.57	8.58	8.59	8.57	8.54	8.53	8.52	8.53	8.63	8.62
50.0	8.07	8.16	8.15	8.12	8.18	8.25	8.06	7.94	7.89	8.05
52.5	7.53	7.64	7.55	7.45	7.37	7.43	7.52	7.48	7.38	7.33
55.0	6.95	7.04	6.86	6.74	6.72	6.78	6.83	6.88	6.83	6.76
57.5	6.44	6.47	6.34	6.17	6.12	6.23	6.33	6.36	6.31	6.23
60.0	6.02	5.90	5.71	5.64	5.65	5.68	5.82	5.90	5.87	5.78
62.5	5.58	5.37	5.17	5.05	5.07	5.17	5.29	5.44	5.49	5.44
65.0	4.80	4.73	4.63	4.65	4.70	4.71	4.87	5.05	5.14	5.12
67.5	4.38	4.30	4.28	4.28	4.26	4.26	4.37	4.63	4.81	4.70
70.0	3.91	3.85	3.87	3.90	3.79	3.78	3.86	4.05	4.21	4.18
72.5	3.43	3.35	3.42	3.35	3.29	3.26	3.33	3.50	3.67	3.65
75.0	2.87	2.85	2.83	2.76	2.73	2.75	2.79	2.94	3.29	3.20
77.5	2.28	2.31	2.20	2.16	2.19	2.24	2.31	2.39	2.71	2.85
80.0	1.62	1.54	1.49	1.56	1.64	1.75	1.87	2.06	2.24	2.41
82.5	0.83	0.77	0.82	0.93	1.12	1.34	1.51	1.72	1.92	2.03
85.0	0.10	0.30	0.52	0.80	0.91	1.11	1.31	1.43	1.60	1.68
87.5	0.44	0.77	0.86	0.92	0.97	1.07	1.16	1.23	1.32	1.36
90.0	1.05	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06

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	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56
2.5	6863.90	6821.78	6852.48	6750.31	6708.49	6671.93	6640.64	6614.66	6594.07	6578.94
5.0	2990.24	2966.48	3016.78	2918.11	2901.67	2881.00	2855.87	2826.27	2792.34	2777.78
7.5	1230.66	1233.91	1234.24	1239.36	1243.62	1243.02	1237.38	1238.99	1218.51	1203.03
10.0	677.60	682.12	684.29	688.69	701.17	711.95	725.91	732.02	741.43	754.34
12.5	484.73	487.97	491.25	496.11	502.97	508.11	511.45	512.93	512.62	510.67
15.0	374.11	375.42	377.65	381.13	385.80	389.34	390.82	394.81	394.71	399.03
17.5	280.95	279.40	280.61	281.89	284.11	286.86	288.38	290.83	293.64	297.09
20.0	188.12	191.68	194.95	197.75	200.08	201.40	202.09	203.92	205.26	206.52
22.5	118.62	121.18	124.77	128.20	131.99	133.16	134.16	134.19	133.15	132.11

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CANDELA TABULATION - (Cont.)

25.0	77.47	78.86	79.25	80.25	81.10	82.00	81.87	80.27	77.27	77.02
27.5	49.65	50.21	51.30	51.53	50.81	49.27	48.72	50.67	52.98	55.45
30.0	32.72	32.63	32.50	32.04	32.36	34.05	35.18	36.34	37.75	39.07
32.5	22.62	22.30	21.75	22.38	23.24	24.19	25.39	26.15	26.53	27.02
35.0	16.74	16.69	17.02	17.58	17.87	17.94	18.18	18.38	18.38	17.86
37.5	13.04	13.37	13.68	13.82	14.15	14.32	13.95	13.32	13.17	13.68
40.0	11.18	11.19	11.21	11.30	11.25	11.34	11.80	11.79	11.76	12.06
42.5	9.93	9.89	9.82	9.66	9.58	9.78	10.20	10.80	10.83	10.80
45.0	9.15	9.08	8.94	8.87	8.90	8.98	9.14	9.46	9.91	9.87
47.5	8.57	8.49	8.45	8.40	8.33	8.37	8.43	8.55	8.82	9.01
50.0	8.19	8.06	8.00	7.94	7.87	7.82	7.86	7.89	7.99	8.14
52.5	7.34	7.52	7.49	7.54	7.45	7.34	7.33	7.39	7.42	7.52
55.0	6.70	6.69	6.81	6.95	7.10	6.96	6.88	6.96	7.10	7.20
57.5	6.15	6.11	6.12	6.17	6.57	6.64	6.60	6.65	6.77	6.89
60.0	5.67	5.57	5.58	5.66	5.81	6.24	6.24	6.41	6.47	6.59
62.5	5.28	5.15	5.16	5.25	5.37	5.59	5.83	6.03	6.20	6.29
65.0	4.96	4.83	4.79	4.87	4.98	5.12	5.39	5.53	5.98	6.02
67.5	4.58	4.47	4.43	4.50	4.62	4.75	4.92	5.08	5.56	5.74
70.0	4.10	4.05	4.05	4.13	4.28	4.40	4.57	4.76	5.05	5.38
72.5	3.59	3.57	3.66	3.78	3.94	4.08	4.26	4.44	4.65	4.96
75.0	3.14	3.24	3.35	3.48	3.62	3.78	3.98	4.14	4.27	4.43
77.5	2.85	2.93	3.05	3.18	3.27	3.37	3.48	3.59	3.71	3.84
80.0	2.51	2.57	2.66	2.73	2.81	2.88	2.97	3.06	3.16	3.27
82.5	2.12	2.17	2.24	2.31	2.35	2.41	2.49	2.55	2.63	2.71
85.0	1.76	1.79	1.84	1.88	1.91	1.95	2.00	2.05	2.11	2.17
87.5	1.40	1.43	1.44	1.47	1.49	1.51	1.54	1.56	1.60	1.62
90.0	1.06	1.06	1.06	1.06	1.06	1.06	1.07	1.07	1.08	1.09

**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	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56	11149.56
2.5	6643.20	6565.59	6567.67	6575.83	6642.97	6592.35	6576.79	6568.47	6567.57	6574.25
5.0	2823.35	2775.87	2793.31	2811.53	2831.11	2846.65	2857.89	2873.40	2893.88	2948.17
7.5	1216.54	1241.69	1259.94	1281.89	1303.85	1326.54	1350.31	1375.00	1399.89	1422.20
10.0	757.54	764.96	769.98	776.01	779.43	780.34	779.07	776.74	773.99	771.67
12.5	513.12	517.28	522.28	529.25	537.89	547.65	558.54	569.17	583.72	590.81
15.0	399.67	402.59	405.99	410.08	415.38	422.36	433.14	440.66	450.79	460.51
17.5	297.89	300.06	302.27	304.59	307.35	311.02	315.73	322.17	329.42	336.99
20.0	207.69	208.60	209.15	211.20	210.08	210.66	211.87	214.01	218.05	220.21
22.5	130.61	128.62	127.30	127.93	133.79	139.25	144.60	150.28	156.32	162.73
25.0	81.21	85.33	89.56	94.27	98.79	103.12	107.02	110.79	114.82	119.00
27.5	58.04	60.66	63.40	66.02	68.75	71.19	74.60	75.03	76.61	78.27
30.0	40.34	41.49	42.37	43.10	43.51	44.50	43.38	42.64	41.56	40.23
32.5	26.86	26.69	26.02	24.68	22.85	24.00	25.16	26.31	27.45	28.41
35.0	16.88	17.18	18.11	18.91	19.68	20.59	21.58	22.58	23.63	24.43
37.5	14.32	14.95	15.54	16.30	16.91	17.55	18.34	19.10	19.89	20.56
40.0	12.49	12.98	13.41	13.93	14.47	14.87	15.36	15.88	16.38	16.86
42.5	11.03	11.37	11.65	11.91	12.24	12.50	12.68	12.93	13.17	13.30
45.0	9.88	10.00	10.18	10.22	10.27	10.34	10.27	10.20	10.08	10.10
47.5	8.94	8.94	8.90	8.83	8.76	8.75	8.72	8.66	8.72	8.82
50.0	8.15	8.16	8.12	8.15	8.12	8.19	8.31	8.35	8.43	8.54
52.5	7.66	7.80	7.89	7.83	7.82	7.88	7.99	8.05	8.14	8.26
55.0	7.37	7.49	7.67	7.57	7.51	7.56	7.66	7.75	7.84	7.95
57.5	7.05	7.18	7.40	7.44	7.21	7.24	7.34	7.44	7.53	7.65
60.0	6.75	6.91	7.10	7.27	6.95	6.92	7.03	7.15	7.23	7.34

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BBX-HO-SE (ONE HEAD ONLY).IES

CANDELA TABULATION - (Cont.)

62.5	6.46	6.63	6.79	7.08	6.73	6.60	6.72	6.82	6.91	7.00
65.0	6.17	6.30	6.39	6.60	6.48	6.28	6.39	6.48	6.57	6.64
67.5	5.84	5.91	5.97	6.10	6.12	5.97	6.04	6.15	6.24	6.30
70.0	5.60	5.56	5.57	5.65	5.68	5.65	5.71	5.82	5.93	5.96
72.5	5.37	5.26	5.18	5.20	5.18	5.20	5.23	5.30	5.38	5.40
75.0	4.85	4.75	4.60	4.62	4.60	4.61	4.66	4.70	4.77	4.78
77.5	4.20	4.17	4.02	4.03	4.01	4.02	4.05	4.09	4.16	4.18
80.0	3.51	3.57	3.45	3.44	3.43	3.44	3.46	3.49	3.55	3.56
82.5	2.88	2.96	2.87	2.86	2.85	2.86	2.87	2.90	2.94	2.95
85.0	2.26	2.36	2.28	2.28	2.27	2.28	2.28	2.30	2.33	2.34
87.5	1.67	1.72	1.70	1.69	1.69	1.70	1.70	1.71	1.72	1.72
90.0	1.09	1.10	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12

Vert. Angles	Horizontal Angles				
	<u>350.0</u>	<u>352.5</u>	<u>355.0</u>	<u>357.5</u>	<u>360.0</u>
0.0	11149.56	11149.56	11149.56	11149.56	11149.56
2.5	6588.67	6610.99	6641.35	6679.88	6726.72
5.0	2934.83	2946.57	2966.91	2996.26	3035.04
7.5	1446.79	1473.13	1490.55	1511.67	1536.79
10.0	768.40	766.21	765.50	765.05	769.69
12.5	602.66	613.06	625.54	630.40	637.62
15.0	470.80	481.63	490.77	498.56	505.54
17.5	344.66	352.73	360.31	367.27	373.46
20.0	223.77	227.79	232.10	236.52	241.38
22.5	168.53	174.60	180.48	185.57	190.11
25.0	123.22	127.48	131.72	135.71	138.84
27.5	79.98	81.82	83.79	85.68	87.57
30.0	38.84	37.67	36.81	36.30	36.29
32.5	29.19	30.03	30.80	31.41	31.81
35.0	25.11	25.77	26.43	26.96	27.33
37.5	21.17	21.61	22.14	22.53	22.85
40.0	17.25	17.53	17.84	18.10	18.36
42.5	13.57	13.55	13.61	13.70	13.88
45.0	10.18	10.18	10.13	10.11	10.25
47.5	8.95	9.06	9.06	9.04	9.17
50.0	8.69	8.85	8.86	8.84	8.93
52.5	8.42	8.64	8.66	8.63	8.70
55.0	8.14	8.41	8.47	8.43	8.47
57.5	7.87	8.17	8.27	8.23	8.25
60.0	7.58	7.94	8.07	8.03	8.01
62.5	7.20	7.52	7.72	7.73	7.61
65.0	6.81	7.08	7.35	7.42	7.22
67.5	6.42	6.65	6.98	7.11	6.83
70.0	6.04	6.22	6.60	6.80	6.43
72.5	5.44	5.58	5.91	6.09	5.77
75.0	4.82	4.94	5.22	5.38	5.11
77.5	4.20	4.29	4.53	4.67	4.44
80.0	3.57	3.65	3.85	3.95	3.77
82.5	2.96	3.02	3.16	3.24	3.11
85.0	2.34	2.38	2.48	2.53	2.45
87.5	1.73	1.75	1.80	1.82	1.78
90.0	1.12	1.12	1.12	1.12	1.12

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BBX-HO-SE (ONE HEAD ONLY).IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	567.24	86.40	84.00
0-30	630.31	96.00	93.30
0-40	647.49	98.60	95.90
0-60	663.49	101.10	98.20
0-80	673.64	102.60	99.70
0-90	675.51	102.90	100.00
10-90	269.73	41.10	39.90
20-40	80.26	12.20	11.90
20-50	89.17	13.60	13.20
40-70	21.96	3.30	3.30
60-80	10.15	1.50	1.50
70-80	4.19	0.60	0.60
80-90	1.87	0.30	0.30
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	675.51	102.90	100.00

Total Luminaire Efficiency = 102.90%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	405.79
10-20	161.45
20-30	63.07
30-40	17.18
40-50	8.92
50-60	7.08
60-70	5.96
70-80	4.19
80-90	1.87
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	122	122	122	122	120	120	120	120	114	114	114	109	109	109	105	105	105	103
1	119	116	115	113	116	114	113	111	110	109	108	106	105	105	103	102	102	100
2	115	112	109	106	113	110	107	105	107	105	103	104	102	101	101	100	99	97
3	112	107	104	101	110	106	103	101	104	101	99	101	99	98	99	98	96	95
4	109	104	100	98	108	103	100	97	101	98	96	99	97	95	97	96	94	93
5	107	101	97	95	105	100	97	94	99	96	93	97	95	93	96	94	92	91
6	104	99	95	92	103	98	94	92	97	94	91	95	93	91	94	92	90	89
7	102	96	93	90	101	96	92	90	95	92	89	94	91	89	93	90	89	88
8	100	94	91	88	99	94	90	88	93	90	88	92	89	87	91	89	87	86
9	98	93	89	87	98	92	89	86	91	88	86	91	88	86	90	88	86	85
10	97	91	87	85	96	91	87	85	90	87	85	89	87	85	89	86	85	84

IES INDOOR REPORT
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UGR TABLE - CORRECTED

Reflectances

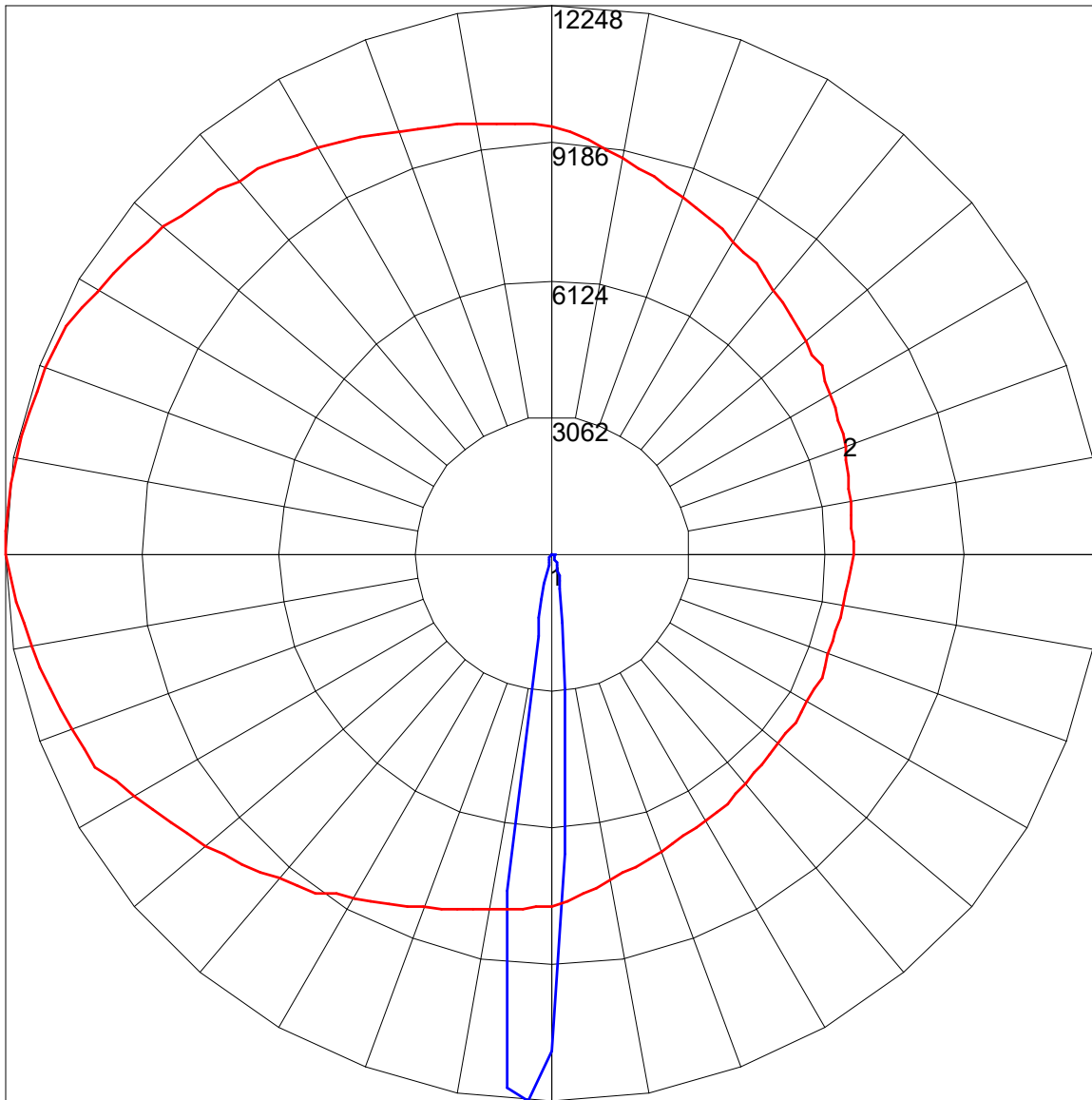
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	5.5	6.8	5.9	7.1	7.4	UGR Viewed Endwise				
	3H	8.5	9.6	8.9	10.0	10.3	0.0	0.0	0.0	0.0	0.0
	4H	9.8	10.8	10.2	11.2	11.6	0.0	0.0	0.0	0.1	0.5
	6H	11.0	12.0	11.4	12.3	12.7	0.9	1.9	1.3	2.3	2.7
	8H	11.5	12.5	11.9	12.8	13.2	2.2	3.1	2.6	3.5	3.9
	12H	12.1	13.0	12.5	13.3	13.8	3.7	4.6	4.1	5.0	5.4
4H	2H	5.8	6.8	6.2	7.2	7.6	0.0	1.0	0.3	1.3	1.7
	3H	9.2	10.1	9.6	10.5	10.9	2.0	2.9	2.4	3.3	3.7
	4H	10.6	11.4	11.0	11.8	12.3	3.0	3.8	3.4	4.2	4.7
	6H	12.0	12.7	12.4	13.1	13.6	4.3	5.0	4.7	5.5	5.9
	8H	12.6	13.3	13.1	13.8	14.2	5.2	5.9	5.7	6.3	6.8
	12H	13.3	13.9	13.7	14.4	14.8	6.4	7.0	6.8	7.4	7.9
8H	4H	10.8	11.5	11.3	11.9	12.4	5.2	5.9	5.7	6.3	6.8
	6H	12.4	13.0	12.9	13.5	14.0	6.6	7.2	7.1	7.7	8.2
	8H	13.3	13.7	13.8	14.2	14.7	7.5	8.0	8.0	8.5	9.0
	12H	14.1	14.5	14.6	15.0	15.6	8.6	9.0	9.1	9.5	10.1
12H	4H	10.8	11.4	11.3	11.9	12.3	5.7	6.3	6.2	6.8	7.3
	6H	12.5	13.0	13.0	13.5	14.0	7.3	7.8	7.9	8.3	8.8
	8H	13.4	13.8	13.9	14.3	14.9	8.3	8.7	8.8	9.2	9.8

Maximum UGR = 15.6

POLAR GRAPH



Maximum Candela = 12247.6 Located At Horizontal Angle = 180, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (180 - 0) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)