



IES INDOOR REPORT
PHOTOMETRIC FILENAME : HBRMSR-LED175DHV40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]
 [TESTLAB] Dongguan New Testing Centre Co., Ltd
 [TESTDATE] 20 May 2019
 [ISSUEDATE] 2019-05-20 09:30:09
 [NEARFIELD]
 [LAMPPOSITION] 0,0
 [OTHER] EVERFINE GO-R5000_V2 SYSTEM
 [MANUFAC] Mobern Lighting Co.
 [LUMCAT] HBRMSR-LED175DHV40
 [MORE] MHB04
 [LUMINAIRE] LED
 [BALLAST] 347-480Vac, 50/60Hz
 [OTHER]

[OTHER]	Gamma(deg)	Fz(lm)	Ft(lm)	%Lum	%Lamp
[OTHER]	0- 10	1004.55	1004.55	4.01	4.01
[OTHER]	10- 20	3025.24	4029.79	16.08	16.08
[OTHER]	20- 30	5032.56	9062.35	36.15	36.15
[OTHER]	30- 40	6606.62	15668.97	62.51	62.51
[OTHER]	40- 50	6111.80	21780.77	86.89	86.89
[OTHER]	50- 60	2597.34	24378.10	97.25	97.25
[OTHER]	60- 70	409.12	24787.23	98.88	98.88
[OTHER]	70- 80	200.34	24987.56	99.68	99.68
[OTHER]	80- 90	60.36	25047.92	99.92	99.92
[OTHER]	90-100	0.28	25048.20	99.92	99.92
[OTHER]	100-110	0.74	25048.94	99.93	99.93
[OTHER]	110-120	1.49	25050.43	99.93	99.93
[OTHER]	120-130	2.51	25052.95	99.94	99.94
[OTHER]	130-140	3.46	25056.40	99.96	99.96
[OTHER]	140-150	3.85	25060.25	99.97	99.97
[OTHER]	150-160	3.53	25063.78	99.99	99.99
[OTHER]	160-170	2.41	25066.18	100.00	100.00
[OTHER]	170-180	0.84	25067.03	100.00	100.00
[OTHER]					

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CHARACTERISTICS

Lumens Per Lamp	25067 (1 lamp)
Total Lamp Lumens	25067
Luminaire Lumens	25067
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	144
Total Luminaire Watts	174.59
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.52
Spacing Criterion (90-270)	1.52
Spacing Criterion (Diagonal)	1.46
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.35 m (Diameter)
Luminous Width (90-270)	0.35 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	117655	116580	117369
55	51167	49194	48171
65	9003	8927	8563
75	8011	7959	7722
85	7558	6768	4899

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CANDELA TABULATION

	<u>0</u>	<u>15</u>	<u>30</u>	<u>45</u>	<u>60</u>	<u>75</u>	<u>90</u>	<u>105</u>	<u>120</u>	<u>135</u>
0	10482.16	10482.16	10482.16	10482.16	10482.16	10482.16	10482.16	10482.16	10482.16	10482.16
1	10493.43	10498.68	10491.59	10492.97	10494.36	10490.95	10488.96	10488.54	10483.20	10477.33
2	10503.88	10509.00	10509.31	10501.15	10501.37	10501.41	10499.65	10488.68	10484.89	10473.27
3	10520.85	10528.46	10526.72	10518.02	10517.65	10510.42	10506.55	10497.69	10485.97	10474.92
4	10537.03	10541.30	10541.74	10537.37	10532.05	10520.68	10514.07	10504.35	10489.25	10477.28
5	10554.98	10561.52	10560.73	10555.15	10549.57	10540.26	10530.39	10515.96	10498.39	10476.31
6	10578.37	10581.28	10581.60	10574.64	10565.66	10557.85	10538.27	10525.74	10505.27	10485.22
7	10595.76	10604.34	10600.41	10601.48	10587.67	10575.12	10557.29	10538.17	10512.10	10492.31
8	10618.55	10626.68	10625.31	10624.82	10608.27	10593.37	10572.32	10556.10	10529.22	10502.64
9	10640.38	10651.16	10648.00	10640.69	10629.83	10613.81	10590.47	10564.30	10541.57	10509.76
10	10664.15	10674.52	10671.82	10663.84	10649.96	10634.67	10607.98	10580.88	10554.71	10519.42
11	10687.64	10702.73	10695.71	10690.29	10674.83	10652.90	10619.01	10602.08	10565.05	10533.89
12	10713.56	10729.38	10723.84	10714.63	10695.88	10678.02	10644.80	10618.46	10582.52	10547.14
13	10739.69	10754.19	10749.53	10743.72	10724.73	10703.20	10664.10	10638.23	10600.62	10563.59
14	10767.01	10783.59	10782.16	10772.12	10750.99	10726.42	10690.23	10657.76	10621.14	10576.90
15	10798.07	10815.75	10810.81	10800.26	10780.07	10755.80	10713.21	10682.45	10637.82	10598.96
16	10827.31	10842.46	10838.20	10833.74	10807.14	10780.56	10741.16	10702.73	10667.08	10621.90
17	10851.94	10868.92	10868.78	10858.09	10831.39	10807.82	10766.43	10731.36	10687.57	10642.02
18	10881.98	10899.44	10894.00	10891.73	10864.05	10838.59	10790.73	10758.42	10720.21	10664.53
19	10906.54	10927.79	10921.85	10915.62	10892.80	10865.12	10817.19	10786.83	10742.91	10691.59
20	10933.32	10955.42	10951.63	10944.98	10918.74	10893.64	10845.55	10817.05	10772.59	10721.72
21	10959.62	10983.24	10980.04	10975.00	10943.27	10922.33	10872.69	10841.00	10799.09	10750.74
22	10983.13	11006.91	11001.95	10998.13	10970.98	10942.14	10898.81	10871.48	10827.57	10775.92
23	11002.67	11026.08	11026.70	11019.71	10992.96	10966.46	10930.07	10893.09	10854.79	10802.51
24	11019.47	11042.89	11045.99	11035.53	11013.84	10991.69	10945.45	10915.33	10873.33	10832.00
25	11032.37	11059.40	11057.72	11049.10	11020.49	11008.66	10961.36	10939.20	10893.53	10858.01
26	11039.82	11063.86	11064.12	11053.95	11028.77	11013.21	10979.76	10956.11	10914.46	10876.04
27	11039.86	11064.34	11065.64	11059.27	11033.87	11019.22	10986.96	10966.58	10926.11	10891.82
28	11036.46	11057.67	11057.29	11056.44	11029.91	11018.75	10988.83	10970.25	10934.11	10904.84
29	11016.41	11044.39	11043.77	11044.39	11019.88	11009.84	10978.58	10970.95	10937.41	10903.58
30	10990.25	11017.70	11017.98	11018.82	10992.19	10986.18	10960.62	10952.24	10929.49	10896.38
31	10955.55	10974.91	10982.44	10981.09	10957.17	10952.56	10938.98	10924.19	10906.83	10879.54
32	10904.93	10924.59	10930.11	10926.13	10905.43	10907.60	10893.68	10884.14	10872.88	10852.28
33	10836.78	10860.44	10862.76	10857.92	10843.11	10844.20	10837.75	10825.41	10828.05	10801.73
34	10754.38	10776.66	10777.57	10772.07	10757.61	10756.26	10764.63	10753.07	10760.95	10739.30
35	10654.22	10672.92	10670.74	10670.59	10658.35	10662.79	10671.19	10657.92	10677.08	10654.12
36	10528.86	10549.13	10548.05	10545.46	10532.44	10541.87	10554.13	10545.26	10570.21	10546.68
37	10377.64	10398.32	10395.22	10397.40	10377.21	10384.61	10409.20	10398.08	10426.27	10417.63
38	10206.02	10219.63	10218.80	10215.90	10196.63	10201.04	10233.30	10223.29	10257.53	10253.31
39	9996.54	10013.87	10007.26	10005.76	9976.31	9987.11	10027.20	10014.24	10055.84	10054.52
40	9751.33	9775.31	9765.74	9756.18	9730.98	9745.48	9788.10	9764.70	9818.03	9821.57
41	9476.75	9500.06	9485.27	9473.29	9444.19	9450.52	9508.35	9476.92	9538.78	9545.98
42	9168.28	9184.67	9165.60	9146.50	9111.78	9127.39	9185.44	9155.77	9213.92	9223.43
43	8824.14	8830.06	8813.46	8781.30	8745.16	8757.77	8824.20	8787.88	8852.48	8862.80
44	8430.24	8435.14	8410.77	8378.03	8330.32	8349.24	8424.60	8374.04	8446.86	8451.90
45	8007.68	8004.36	7979.47	7934.49	7888.91	7898.97	7988.22	7921.30	7992.42	7997.04
46	7540.90	7547.35	7507.15	7460.57	7401.95	7411.10	7503.72	7429.50	7509.25	7501.75
47	7054.13	7046.78	7007.44	6953.10	6894.11	6906.12	6995.04	6898.43	6968.60	6962.73
48	6533.71	6540.10	6495.52	6434.41	6363.45	6379.54	6451.88	6349.70	6422.74	6398.60
49	6006.30	6009.15	5961.86	5894.07	5816.80	5830.23	5901.03	5790.00	5849.31	5829.91
50	5465.18	5473.20	5405.77	5347.58	5272.94	5278.97	5338.39	5222.17	5283.18	5254.13
51	4922.30	4932.53	4859.03	4798.29	4721.02	4721.95	4773.66	4664.47	4713.66	4682.40
52	4386.14	4393.93	4314.66	4262.45	4185.10	4180.98	4220.25	4115.41	4159.52	4118.80
53	3860.98	3865.23	3783.55	3734.94	3656.67	3648.07	3675.92	3578.82	3611.27	3588.45

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CANDELA TABULATION - (Cont.)

54	3336.04	3338.66	3256.68	3215.03	3144.95	3129.94	3163.41	3059.12	3096.39	3062.21
55	2824.82	2831.90	2753.23	2715.89	2649.79	2633.12	2659.41	2561.04	2596.43	2576.65
56	2319.90	2382.03	2268.18	2288.79	2173.19	2221.80	2247.17	2104.68	2191.78	2134.72
57	1853.24	1932.15	1829.65	1861.68	1750.92	1810.49	1834.94	1691.66	1787.14	1722.08
58	1444.17	1484.81	1434.26	1436.33	1382.78	1400.35	1425.15	1330.95	1383.56	1361.73
59	1105.58	1137.27	1101.28	1113.98	1079.90	1092.31	1110.71	1034.08	1073.03	1057.96
60	916.31	869.59	910.86	865.74	902.25	853.70	869.89	856.98	830.05	864.85
61	727.77	675.00	722.32	682.23	728.01	679.70	682.60	682.81	645.23	673.82
62	539.22	547.42	533.78	557.67	553.77	554.61	551.12	508.64	512.83	482.94
63	458.91	463.15	452.81	470.07	468.59	463.94	458.55	423.03	421.67	395.85
64	406.01	405.79	399.08	406.89	408.99	399.42	393.76	367.23	365.03	342.15
65	366.22	363.90	358.37	363.15	364.91	353.34	348.32	331.85	329.78	310.39
66	336.87	332.09	328.10	332.80	333.71	322.65	318.05	307.92	306.44	290.03
67	314.93	310.69	306.98	311.01	309.68	301.94	297.15	290.00	288.16	274.13
68	297.33	293.19	290.40	294.50	290.94	285.87	280.74	274.96	272.94	260.31
69	281.75	278.27	276.99	280.96	274.21	272.31	266.96	261.64	259.26	248.22
70	267.20	264.68	264.49	267.54	260.13	259.77	255.46	249.30	247.12	236.54
71	254.15	252.21	252.59	255.33	247.65	247.52	243.16	237.32	233.48	224.70
72	241.03	240.07	240.52	241.68	234.39	235.49	232.12	225.44	220.43	213.16
73	227.81	227.81	227.82	227.21	220.43	220.88	218.89	212.86	207.38	201.36
74	214.09	214.10	214.54	212.74	206.80	206.27	205.66	198.43	194.33	187.92
75	199.56	200.37	200.73	198.27	192.29	191.67	192.38	184.01	180.85	175.81
76	185.10	186.23	185.41	183.13	178.28	177.24	177.35	169.70	167.44	163.72
77	170.56	172.31	170.04	168.75	163.31	162.37	161.05	155.50	153.52	150.96
78	156.11	158.03	155.20	154.66	149.28	147.36	145.29	140.84	139.97	138.18
79	142.47	144.65	141.60	141.48	135.08	134.20	131.27	127.14	126.38	125.78
80	128.93	131.51	128.26	128.04	121.48	119.86	117.53	113.59	114.20	113.99
81	116.47	118.29	115.44	115.30	107.81	105.98	104.33	100.19	101.59	101.91
82	103.96	104.85	102.96	102.00	93.68	92.03	90.08	85.23	87.54	88.81
83	90.67	92.59	90.53	88.62	76.95	77.03	74.02	70.23	73.88	75.93
84	77.04	80.01	76.10	73.40	60.22	59.76	57.48	55.22	58.45	63.06
85	63.40	66.85	61.64	56.78	43.50	43.10	41.10	38.34	42.71	47.72
86	49.75	53.74	45.95	39.26	26.69	29.01	27.84	22.72	29.31	32.12
87	35.97	35.90	29.03	21.74	11.54	14.92	14.58	7.03	15.92	16.20
88	13.16	18.06	5.58	4.64	5.82	1.18	1.38	3.60	2.87	10.69
89	8.59	0.26	2.72	0.10	0.14	0.10	0.24	0.30	0.25	5.52
90	4.34	0.05	0.10	0.05	0.05	0.05	0.18	0.19	0.19	0.35
91	0.10	0.05	0.05	0.05	0.05	0.05	0.20	0.20	0.20	0.20
92	0.06	0.06	0.06	0.05	0.06	0.06	0.21	0.22	0.22	0.22
93	0.11	0.09	0.07	0.07	0.07	0.07	0.24	0.25	0.24	0.25
94	0.14	0.12	0.09	0.08	0.09	0.10	0.27	0.28	0.27	0.28
95	0.15	0.13	0.10	0.10	0.10	0.11	0.31	0.32	0.31	0.31
96	0.16	0.14	0.12	0.12	0.12	0.12	0.35	0.36	0.36	0.37
97	0.19	0.17	0.15	0.14	0.14	0.15	0.40	0.42	0.41	0.42
98	0.21	0.19	0.17	0.17	0.17	0.17	0.46	0.47	0.47	0.48
99	0.23	0.21	0.19	0.19	0.19	0.19	0.52	0.54	0.53	0.54
100	0.25	0.23	0.21	0.21	0.21	0.21	0.60	0.61	0.60	0.61
101	0.27	0.25	0.24	0.23	0.24	0.24	0.68	0.70	0.68	0.69
102	0.30	0.28	0.27	0.26	0.27	0.27	0.77	0.79	0.77	0.78
103	0.32	0.31	0.30	0.29	0.30	0.30	0.87	0.89	0.87	0.88
104	0.35	0.34	0.33	0.32	0.33	0.33	0.97	1.00	0.98	0.98
105	0.39	0.37	0.36	0.36	0.37	0.36	1.08	1.09	1.08	1.08
106	0.42	0.41	0.40	0.40	0.41	0.40	1.17	1.18	1.17	1.17
107	0.47	0.46	0.45	0.45	0.45	0.45	1.25	1.27	1.25	1.26
108	0.52	0.51	0.50	0.50	0.50	0.49	1.34	1.35	1.34	1.35
109	0.57	0.56	0.56	0.56	0.56	0.55	1.42	1.44	1.43	1.44

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CANDELA TABULATION - (Cont.)

110	0.64	0.63	0.63	0.62	0.62	0.60	1.50	1.52	1.52	1.54
111	0.71	0.70	0.70	0.69	0.69	0.67	1.58	1.60	1.61	1.64
112	0.78	0.77	0.77	0.76	0.75	0.73	1.66	1.69	1.71	1.74
113	0.86	0.85	0.85	0.84	0.83	0.80	1.75	1.78	1.81	1.84
114	0.95	0.94	0.94	0.92	0.90	0.88	1.84	1.88	1.91	1.95
115	1.04	1.03	1.03	1.01	0.99	0.97	1.94	1.98	2.01	2.06
116	1.13	1.13	1.13	1.10	1.08	1.05	2.04	2.10	2.13	2.19
117	1.23	1.23	1.23	1.20	1.18	1.15	2.16	2.24	2.27	2.32
118	1.33	1.33	1.33	1.30	1.28	1.25	2.38	2.41	2.43	2.47
119	1.44	1.44	1.44	1.41	1.39	1.35	2.51	2.55	2.57	2.63
120	1.55	1.56	1.55	1.52	1.50	1.45	2.65	2.70	2.71	2.78
121	1.66	1.67	1.66	1.63	1.62	1.56	2.78	2.84	2.85	2.94
122	1.78	1.79	1.78	1.74	1.74	1.67	2.92	2.98	2.99	3.10
123	1.89	1.90	1.89	1.85	1.86	1.78	3.06	3.14	3.14	3.27
124	2.01	2.01	2.00	1.96	1.97	1.89	3.22	3.31	3.31	3.44
125	2.12	2.13	2.11	2.07	2.09	2.00	3.39	3.48	3.48	3.63
126	2.24	2.25	2.22	2.19	2.21	2.12	3.56	3.65	3.67	3.82
127	2.36	2.37	2.34	2.30	2.33	2.25	3.74	3.83	3.87	4.01
128	2.49	2.49	2.47	2.41	2.46	2.39	3.92	4.04	4.09	4.22
129	2.61	2.61	2.60	2.54	2.60	2.54	4.12	4.26	4.31	4.42
130	2.75	2.75	2.74	2.66	2.73	2.69	4.33	4.47	4.54	4.64
131	2.89	2.89	2.87	2.79	2.86	2.85	4.54	4.67	4.76	4.87
132	3.04	3.04	3.00	2.93	2.99	3.01	4.74	4.88	4.98	5.11
133	3.19	3.19	3.14	3.07	3.12	3.17	4.91	5.08	5.20	5.34
134	3.33	3.34	3.28	3.23	3.25	3.33	5.07	5.27	5.39	5.55
135	3.46	3.48	3.41	3.38	3.37	3.48	5.24	5.45	5.57	5.75
136	3.58	3.60	3.54	3.55	3.50	3.64	5.41	5.61	5.74	5.93
137	3.74	3.73	3.67	3.71	3.65	3.80	5.57	5.78	5.91	6.12
138	3.89	3.87	3.81	3.89	3.79	3.95	5.72	5.96	6.09	6.32
139	4.04	4.01	3.97	4.04	3.94	4.12	5.92	6.13	6.26	6.51
140	4.19	4.16	4.13	4.18	4.09	4.26	6.08	6.29	6.41	6.68
141	4.37	4.31	4.29	4.32	4.24	4.41	6.24	6.47	6.58	6.85
142	4.52	4.47	4.47	4.46	4.41	4.56	6.42	6.67	6.78	7.03
143	4.67	4.65	4.67	4.60	4.56	4.71	6.61	6.88	6.99	7.21
144	4.80	4.82	4.83	4.74	4.72	4.86	6.79	7.11	7.18	7.39
145	4.96	4.99	4.96	4.89	4.87	5.01	7.05	7.34	7.37	7.58
146	5.10	5.15	5.08	5.05	5.02	5.15	7.27	7.56	7.56	7.79
147	5.21	5.27	5.18	5.21	5.16	5.30	7.49	7.74	7.73	8.00
148	5.28	5.36	5.27	5.35	5.29	5.43	7.70	7.91	7.91	8.21
149	5.34	5.44	5.38	5.49	5.43	5.55	7.88	8.07	8.08	8.42
150	5.39	5.52	5.51	5.64	5.61	5.67	8.06	8.22	8.29	8.62
151	5.48	5.62	5.65	5.79	5.79	5.78	8.24	8.38	8.52	8.79
152	5.57	5.75	5.80	5.93	6.01	5.90	8.43	8.54	8.75	8.94
153	5.67	5.87	5.93	6.05	6.20	6.00	8.58	8.67	9.01	9.10
154	5.73	5.98	6.06	6.16	6.38	6.11	8.73	8.83	9.24	9.26
155	5.74	6.08	6.18	6.27	6.54	6.27	8.91	9.05	9.46	9.41
156	5.76	6.18	6.28	6.38	6.66	6.43	9.11	9.28	9.63	9.56
157	5.80	6.28	6.39	6.52	6.76	6.60	9.34	9.49	9.77	9.72
158	5.84	6.38	6.50	6.66	6.84	6.75	9.56	9.69	9.89	9.89
159	5.89	6.47	6.58	6.79	6.89	6.82	9.77	9.82	10.00	10.05
160	5.94	6.53	6.69	6.91	6.92	6.86	9.90	9.91	10.08	10.19
161	5.98	6.59	6.77	7.00	6.95	6.90	9.94	9.96	10.12	10.28
162	6.04	6.66	6.84	7.06	6.96	6.93	9.93	9.97	10.13	10.32
163	6.18	6.75	6.96	7.15	7.01	7.00	9.93	9.97	10.13	10.34
164	6.38	6.87	7.10	7.22	7.09	7.10	9.94	10.01	10.17	10.39
165	6.61	7.00	7.24	7.33	7.21	7.22	9.97	10.08	10.22	10.43

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166	6.82	7.18	7.40	7.46	7.36	7.38	9.95	10.15	10.30	10.47
167	6.97	7.34	7.51	7.53	7.48	7.52	9.97	10.17	10.33	10.46
168	7.08	7.43	7.60	7.57	7.56	7.61	9.97	10.17	10.33	10.40
169	7.21	7.43	7.62	7.60	7.60	7.67	9.94	10.11	10.25	10.27
170	7.28	7.31	7.56	7.57	7.57	7.65	9.91	10.05	10.17	10.20
171	7.30	7.20	7.52	7.53	7.53	7.62	9.92	10.04	10.16	10.17
172	7.37	7.31	7.61	7.59	7.60	7.69	9.94	10.05	10.15	10.10
173	7.47	7.49	7.77	7.74	7.75	7.87	9.88	10.00	10.10	10.01
174	7.70	7.76	8.01	8.05	8.05	8.21	9.87	10.01	10.06	9.96
175	7.93	8.06	8.33	8.37	8.41	8.56	9.85	9.98	10.02	9.91
176	8.12	8.25	8.54	8.52	8.63	8.79	9.73	9.89	9.93	9.81
177	8.32	8.37	8.66	8.63	8.75	8.91	9.64	9.80	9.85	9.74
178	8.46	8.40	8.70	8.69	8.76	8.94	9.45	9.63	9.67	9.58
179	8.70	8.47	8.64	8.75	8.77	8.97	9.37	9.56	9.58	9.50
180	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93

Vert. Angles **Horizontal Angles**

	<u>150</u>	<u>165</u>	<u>180</u>	<u>195</u>	<u>210</u>	<u>225</u>	<u>240</u>	<u>255</u>	<u>270</u>	<u>285</u>
0	10482.16	10482.16	10482.16	10482.16	10482.16	10482.16	10482.16	10482.16	10482.16	10482.16
1	10477.81	10469.91	10471.44	10469.91	10471.35	10471.05	10474.96	10477.41	10478.36	10480.45
2	10474.33	10462.14	10466.34	10463.71	10462.12	10459.48	10470.35	10470.46	10478.28	10480.46
3	10470.15	10459.10	10457.76	10458.13	10456.67	10458.08	10462.89	10466.39	10478.61	10483.56
4	10465.88	10456.64	10452.65	10453.23	10450.78	10448.20	10457.44	10466.93	10477.94	10486.45
5	10470.35	10452.96	10449.58	10445.86	10445.70	10448.07	10452.75	10474.06	10485.12	10494.72
6	10472.43	10455.90	10448.92	10447.00	10446.71	10446.40	10455.83	10472.51	10485.47	10502.83
7	10477.67	10458.94	10450.29	10450.45	10446.09	10451.45	10458.31	10474.48	10491.88	10509.95
8	10484.69	10462.05	10452.74	10448.11	10448.81	10448.76	10463.77	10482.72	10495.97	10519.04
9	10495.09	10464.17	10455.44	10452.85	10453.60	10454.55	10468.17	10489.54	10503.37	10529.96
10	10502.01	10478.20	10460.96	10459.59	10453.94	10459.63	10468.65	10499.21	10524.17	10546.37
11	10508.61	10481.65	10467.89	10465.86	10465.36	10467.21	10477.28	10506.65	10533.22	10561.09
12	10524.22	10499.67	10476.66	10472.92	10472.28	10474.88	10487.37	10519.08	10542.91	10576.25
13	10536.16	10506.67	10489.18	10482.99	10477.58	10484.66	10501.66	10531.95	10556.57	10591.08
14	10553.39	10524.45	10505.58	10497.84	10490.36	10496.08	10516.41	10542.76	10573.86	10610.49
15	10568.95	10538.78	10520.23	10511.34	10505.93	10509.81	10526.39	10562.80	10587.03	10628.69
16	10588.70	10557.62	10534.23	10530.09	10520.25	10528.90	10541.64	10577.36	10607.77	10651.86
17	10613.34	10579.39	10552.08	10544.59	10539.07	10543.21	10559.06	10593.63	10626.65	10669.45
18	10636.06	10601.20	10576.68	10568.65	10558.96	10559.44	10577.26	10613.45	10644.34	10692.02
19	10659.37	10626.36	10597.67	10593.06	10578.81	10582.35	10598.73	10633.49	10667.02	10712.12
20	10686.93	10652.70	10624.95	10613.60	10601.70	10604.30	10617.74	10651.91	10687.38	10735.79
21	10717.66	10676.03	10646.71	10637.30	10624.34	10621.97	10636.00	10673.95	10705.55	10754.86
22	10746.33	10705.93	10679.21	10664.26	10645.91	10640.58	10657.96	10692.57	10728.44	10772.25
23	10773.48	10732.63	10701.43	10691.87	10669.61	10667.91	10676.28	10711.48	10743.00	10795.89
24	10796.97	10760.99	10731.36	10715.53	10691.77	10688.52	10696.61	10731.69	10762.39	10814.92
25	10820.04	10783.55	10754.89	10741.01	10710.10	10707.47	10710.38	10747.27	10774.44	10827.89
26	10843.42	10804.89	10774.06	10760.14	10731.66	10722.50	10725.94	10760.97	10789.82	10839.20
27	10863.18	10824.42	10797.10	10779.21	10746.59	10733.34	10740.60	10773.15	10795.06	10846.22
28	10874.92	10837.71	10808.46	10791.20	10760.38	10741.23	10743.72	10772.18	10797.77	10848.58
29	10880.88	10841.28	10814.62	10799.39	10767.19	10746.56	10746.04	10771.16	10788.28	10843.08
30	10874.59	10836.28	10816.38	10797.44	10764.09	10748.01	10740.80	10762.63	10775.30	10829.84
31	10860.00	10823.18	10806.43	10787.82	10751.18	10733.13	10726.71	10740.78	10755.74	10810.23
32	10832.72	10795.14	10783.20	10759.85	10730.43	10709.50	10698.74	10713.97	10723.30	10779.25
33	10794.25	10756.12	10748.28	10727.34	10694.55	10666.74	10664.27	10679.34	10685.82	10736.83
34	10729.87	10701.29	10698.11	10671.28	10639.66	10614.75	10612.10	10622.97	10627.57	10683.28
35	10651.18	10626.85	10622.04	10600.87	10578.37	10547.99	10540.32	10554.05	10553.72	10601.36
36	10561.81	10527.14	10529.54	10511.66	10491.70	10459.56	10450.32	10463.39	10463.29	10509.04

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37	10431.17	10402.30	10411.82	10402.19	10383.66	10350.30	10341.96	10352.24	10343.82	10392.54
38	10272.54	10252.87	10265.39	10258.16	10249.06	10214.62	10207.04	10212.95	10205.37	10252.45
39	10080.92	10066.47	10094.38	10087.31	10082.31	10051.29	10040.94	10050.15	10035.36	10085.67
40	9858.43	9839.89	9880.98	9883.65	9886.36	9857.22	9845.24	9856.43	9838.03	9886.21
41	9588.81	9571.72	9631.83	9636.10	9649.74	9627.24	9617.68	9622.90	9601.84	9660.27
42	9276.26	9271.04	9331.69	9350.56	9379.07	9362.93	9355.03	9353.80	9329.70	9386.54
43	8924.35	8908.61	8995.51	9031.72	9067.84	9055.41	9054.00	9049.70	9019.90	9075.45
44	8523.03	8514.19	8614.42	8662.19	8705.79	8695.81	8695.37	8698.11	8663.29	8726.95
45	8073.05	8065.19	8178.66	8243.19	8301.26	8295.65	8298.42	8306.59	8269.25	8330.43
46	7586.67	7565.55	7706.24	7778.03	7850.36	7845.28	7861.78	7869.86	7831.99	7899.36
47	7050.68	7025.62	7176.96	7257.64	7345.34	7356.57	7382.81	7396.13	7365.57	7421.84
48	6483.52	6457.46	6614.16	6703.75	6817.40	6813.89	6861.56	6879.29	6852.48	6914.88
49	5909.60	5865.83	6027.23	6126.97	6247.86	6259.93	6311.71	6343.91	6310.13	6382.45
50	5313.11	5293.67	5438.01	5532.66	5668.58	5678.33	5747.77	5784.84	5749.66	5826.03
51	4739.38	4698.93	4854.81	4960.23	5077.86	5108.40	5180.71	5216.57	5181.51	5271.67
52	4159.37	4148.34	4290.42	4369.80	4494.56	4542.41	4614.21	4653.90	4620.42	4715.15
53	3615.18	3608.91	3740.37	3829.67	3936.98	3993.07	4062.19	4105.72	4064.27	4174.59
54	3085.96	3088.48	3218.08	3293.99	3400.41	3469.27	3534.43	3569.38	3530.86	3635.23
55	2607.28	2605.38	2724.19	2800.43	2894.70	2958.19	3017.57	3052.83	3007.68	3109.08
56	2213.79	2167.63	2310.29	2337.71	2458.22	2472.68	2523.13	2552.58	2504.34	2597.12
57	1820.31	1763.99	1896.40	1897.04	2021.74	2013.16	2086.79	2073.28	2032.32	2164.55
58	1428.42	1398.36	1484.41	1506.93	1587.28	1601.10	1651.10	1648.05	1604.23	1731.99
59	1117.51	1088.59	1155.90	1161.24	1232.66	1244.22	1291.77	1273.23	1233.74	1299.49
60	858.16	887.99	881.03	876.32	932.42	944.48	984.37	959.07	927.62	982.90
61	653.24	690.06	667.16	692.10	697.25	768.71	734.50	784.26	759.12	737.46
62	501.37	492.13	521.23	510.32	534.14	597.01	556.37	610.07	593.93	565.10
63	404.94	399.63	422.96	414.49	429.12	425.32	441.58	435.89	428.74	454.99
64	346.23	345.47	364.45	358.32	367.28	360.15	373.47	368.27	370.13	389.00
65	312.50	313.49	330.43	326.44	330.55	323.44	333.24	330.64	335.76	352.65
66	291.10	292.49	308.09	304.64	306.34	300.34	307.52	307.65	314.10	328.09
67	274.51	277.84	290.03	288.45	287.66	282.89	288.91	290.68	296.22	309.73
68	260.82	264.81	274.49	274.30	271.81	267.04	272.52	275.26	280.44	293.93
69	248.80	252.89	261.58	262.14	258.42	253.39	258.77	261.96	266.43	279.34
70	238.21	240.50	249.70	250.13	246.98	241.63	247.07	249.98	254.08	266.34
71	226.17	227.61	237.09	237.99	235.05	230.45	234.67	238.94	242.50	253.95
72	214.07	215.51	223.31	226.14	222.87	219.43	222.61	227.96	231.05	241.83
73	201.96	203.37	209.53	213.78	210.68	208.04	210.54	217.30	219.88	229.32
74	188.18	189.98	195.75	199.19	198.49	195.63	198.47	204.76	207.54	215.04
75	175.40	176.69	181.86	185.11	185.79	183.27	186.29	192.56	194.34	200.77
76	162.81	164.26	168.26	170.90	172.29	171.27	174.54	179.85	180.69	187.34
77	149.94	151.99	154.12	157.58	158.70	158.99	161.67	167.20	166.53	173.89
78	137.44	138.91	140.55	143.85	145.16	146.42	149.01	153.11	152.82	159.96
79	125.11	126.85	127.79	131.00	131.67	134.18	136.62	139.40	138.58	146.13
80	114.20	115.27	115.90	118.73	119.78	122.09	124.55	126.88	125.20	131.93
81	102.90	104.00	104.02	105.97	107.34	109.77	111.85	113.26	111.58	117.82
82	90.37	91.17	91.42	93.02	94.51	96.23	97.70	98.75	98.42	103.79
83	78.76	79.61	79.50	80.97	82.18	82.28	84.22	84.09	83.11	90.16
84	66.77	68.08	67.53	68.93	69.56	68.32	69.45	69.43	67.74	76.51
85	53.92	55.14	55.46	56.89	56.32	54.36	52.71	54.77	52.37	60.24
86	38.96	41.32	42.15	44.48	42.86	38.43	37.34	38.47	36.08	42.60
87	26.12	28.21	28.13	30.83	28.77	21.53	21.96	19.39	18.15	28.58
88	13.27	8.08	14.11	9.50	14.69	8.49	6.73	13.01	12.04	14.56
89	0.46	4.06	0.24	4.72	0.86	4.31	0.30	6.71	6.09	0.79
90	0.19	0.23	0.19	0.32	0.18	0.29	0.19	0.41	0.15	0.09
91	0.20	0.20	0.20	0.20	0.20	0.20	0.19	0.19	0.05	0.05
92	0.22	0.22	0.22	0.22	0.21	0.22	0.21	0.21	0.06	0.05

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93	0.24	0.24	0.24	0.24	0.24	0.24	0.23	0.23	0.10	0.07
94	0.27	0.27	0.27	0.27	0.26	0.26	0.26	0.26	0.12	0.08
95	0.30	0.31	0.30	0.30	0.30	0.30	0.29	0.29	0.13	0.10
96	0.35	0.35	0.34	0.34	0.34	0.34	0.33	0.33	0.15	0.11
97	0.41	0.40	0.39	0.39	0.39	0.39	0.38	0.38	0.17	0.13
98	0.47	0.46	0.44	0.45	0.44	0.44	0.43	0.43	0.19	0.16
99	0.53	0.52	0.50	0.51	0.50	0.50	0.49	0.48	0.20	0.17
100	0.60	0.59	0.57	0.58	0.57	0.56	0.55	0.55	0.22	0.20
101	0.67	0.67	0.65	0.65	0.64	0.64	0.63	0.62	0.25	0.22
102	0.76	0.76	0.73	0.74	0.72	0.72	0.71	0.70	0.27	0.24
103	0.86	0.86	0.83	0.83	0.82	0.81	0.80	0.79	0.30	0.27
104	0.97	0.96	0.93	0.93	0.92	0.91	0.90	0.89	0.32	0.30
105	1.06	1.06	1.03	1.03	1.01	1.00	0.99	0.98	0.35	0.33
106	1.15	1.14	1.11	1.11	1.10	1.09	1.07	1.06	0.39	0.37
107	1.24	1.23	1.20	1.20	1.18	1.17	1.14	1.14	0.43	0.41
108	1.33	1.32	1.29	1.29	1.27	1.25	1.23	1.22	0.47	0.45
109	1.43	1.42	1.38	1.38	1.36	1.34	1.31	1.30	0.51	0.50
110	1.53	1.52	1.48	1.48	1.46	1.44	1.39	1.38	0.57	0.55
111	1.63	1.62	1.59	1.59	1.56	1.54	1.48	1.46	0.62	0.60
112	1.74	1.74	1.70	1.70	1.67	1.64	1.58	1.55	0.68	0.66
113	1.85	1.85	1.82	1.81	1.78	1.74	1.67	1.64	0.75	0.71
114	1.96	1.97	1.94	1.93	1.89	1.85	1.78	1.74	0.83	0.76
115	2.08	2.09	2.07	2.05	2.01	1.96	1.88	1.84	0.91	0.83
116	2.20	2.22	2.20	2.19	2.14	2.08	2.00	1.95	1.00	0.92
117	2.33	2.35	2.34	2.32	2.27	2.21	2.14	2.10	1.09	1.01
118	2.46	2.49	2.48	2.46	2.41	2.36	2.27	2.26	1.19	1.11
119	2.61	2.64	2.62	2.61	2.56	2.51	2.42	2.41	1.29	1.21
120	2.78	2.78	2.77	2.76	2.72	2.66	2.57	2.57	1.40	1.32
121	2.94	2.93	2.93	2.91	2.88	2.80	2.73	2.71	1.51	1.43
122	3.11	3.11	3.09	3.08	3.05	2.95	2.88	2.86	1.62	1.54
123	3.30	3.31	3.27	3.28	3.21	3.11	3.04	3.02	1.73	1.66
124	3.51	3.53	3.46	3.47	3.38	3.28	3.19	3.18	1.85	1.78
125	3.70	3.75	3.71	3.68	3.56	3.46	3.37	3.35	1.97	1.90
126	3.91	3.98	3.98	3.91	3.76	3.65	3.55	3.52	2.10	2.03
127	4.12	4.20	4.22	4.13	3.97	3.86	3.75	3.70	2.22	2.15
128	4.34	4.43	4.45	4.35	4.19	4.05	3.95	3.89	2.34	2.27
129	4.56	4.66	4.67	4.57	4.41	4.26	4.14	4.08	2.48	2.40
130	4.80	4.89	4.88	4.78	4.62	4.46	4.35	4.30	2.63	2.55
131	5.03	5.12	5.09	4.99	4.82	4.65	4.57	4.54	2.79	2.71
132	5.24	5.35	5.28	5.18	5.02	4.84	4.79	4.75	2.96	2.88
133	5.45	5.56	5.49	5.37	5.19	5.04	4.99	4.94	3.14	3.06
134	5.67	5.75	5.68	5.55	5.35	5.23	5.17	5.11	3.32	3.24
135	5.87	5.91	5.84	5.74	5.51	5.40	5.33	5.27	3.48	3.41
136	6.06	6.06	5.98	5.91	5.69	5.59	5.47	5.44	3.64	3.58
137	6.24	6.22	6.13	6.05	5.87	5.79	5.60	5.61	3.80	3.75
138	6.41	6.41	6.28	6.19	6.07	5.97	5.80	5.79	3.96	3.93
139	6.58	6.58	6.45	6.34	6.26	6.18	6.00	6.01	4.11	4.10
140	6.73	6.74	6.62	6.49	6.42	6.33	6.17	6.20	4.26	4.27
141	6.91	6.91	6.80	6.65	6.60	6.52	6.35	6.38	4.41	4.44
142	7.11	7.08	7.00	6.80	6.81	6.71	6.54	6.57	4.56	4.62
143	7.31	7.26	7.19	6.94	7.01	6.88	6.73	6.77	4.73	4.81
144	7.52	7.46	7.39	7.09	7.18	7.05	6.91	6.97	4.89	4.99
145	7.71	7.66	7.59	7.28	7.35	7.24	7.10	7.23	5.04	5.15
146	7.91	7.86	7.78	7.53	7.53	7.43	7.29	7.44	5.17	5.30
147	8.09	8.06	7.98	7.80	7.69	7.64	7.50	7.60	5.31	5.44
148	8.26	8.25	8.18	8.04	7.84	7.85	7.68	7.76	5.44	5.58

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

149	8.42	8.43	8.34	8.23	7.98	8.06	7.93	7.95	5.58	5.71
150	8.59	8.57	8.42	8.38	8.13	8.28	8.19	8.13	5.73	5.86
151	8.76	8.71	8.49	8.51	8.27	8.47	8.45	8.33	5.89	6.02
152	8.89	8.86	8.64	8.63	8.43	8.61	8.69	8.51	6.05	6.18
153	9.05	9.01	8.77	8.78	8.66	8.73	8.92	8.65	6.17	6.32
154	9.21	9.15	8.87	8.94	8.86	8.87	9.15	8.79	6.28	6.45
155	9.36	9.26	8.95	9.08	9.03	9.02	9.37	8.95	6.38	6.59
156	9.49	9.35	9.02	9.17	9.16	9.12	9.56	9.15	6.49	6.70
157	9.61	9.47	9.09	9.21	9.25	9.23	9.71	9.35	6.63	6.82
158	9.73	9.60	9.17	9.28	9.32	9.32	9.82	9.54	6.76	6.94
159	9.83	9.72	9.27	9.39	9.39	9.44	9.87	9.73	6.87	7.04
160	9.92	9.83	9.36	9.47	9.48	9.59	9.91	9.84	6.93	7.08
161	9.98	9.86	9.41	9.49	9.53	9.70	9.92	9.89	6.96	7.11
162	10.03	9.87	9.44	9.46	9.55	9.72	9.91	9.89	6.97	7.13
163	10.08	9.88	9.50	9.44	9.54	9.71	9.90	9.90	7.01	7.20
164	10.14	9.90	9.60	9.49	9.56	9.70	9.88	9.92	7.11	7.31
165	10.22	9.97	9.67	9.60	9.57	9.71	9.90	9.93	7.22	7.44
166	10.29	10.00	9.72	9.67	9.58	9.75	9.92	9.92	7.36	7.58
167	10.29	9.97	9.72	9.64	9.54	9.69	9.90	9.89	7.51	7.72
168	10.25	9.88	9.70	9.57	9.43	9.62	9.89	9.85	7.62	7.82
169	10.16	9.73	9.61	9.55	9.32	9.60	9.79	9.75	7.72	7.90
170	10.07	9.63	9.54	9.52	9.13	9.48	9.70	9.65	7.71	7.90
171	10.03	9.57	9.46	9.55	9.09	9.48	9.68	9.67	7.69	7.90
172	10.01	9.58	9.32	9.56	9.14	9.51	9.68	9.71	7.79	7.98
173	9.94	9.53	9.15	9.51	9.10	9.47	9.62	9.67	7.98	8.16
174	9.89	9.48	9.06	9.42	9.05	9.45	9.58	9.68	8.35	8.49
175	9.85	9.39	9.07	9.29	9.02	9.41	9.52	9.66	8.74	8.86
176	9.78	9.35	9.09	9.15	8.96	9.29	9.35	9.53	8.96	9.13
177	9.64	9.25	9.07	8.99	8.90	9.18	9.19	9.39	9.15	9.38
178	9.42	9.13	8.94	8.74	8.79	9.00	8.97	9.17	9.21	9.44
179	9.32	9.07	8.94	8.64	8.75	8.89	8.89	9.10	9.25	9.45
180	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93	8.93

Vert. Angles **Horizontal Angles**

	<u>300</u>	<u>315</u>	<u>330</u>	<u>345</u>	<u>360</u>
0	10482.16	10482.16	10482.16	10482.16	10482.16
1	10484.45	10484.67	10490.72	10486.91	10493.43
2	10489.91	10490.41	10501.16	10500.76	10503.88
3	10491.69	10499.32	10511.58	10512.68	10520.85
4	10502.03	10506.45	10524.37	10530.19	10537.03
5	10511.75	10522.26	10538.47	10542.26	10554.98
6	10519.15	10532.17	10556.25	10564.53	10578.37
7	10532.74	10547.69	10571.18	10583.11	10595.76
8	10545.79	10563.76	10591.71	10602.94	10618.55
9	10563.05	10580.91	10612.15	10623.28	10640.38
10	10575.75	10596.37	10634.16	10647.32	10664.15
11	10592.40	10612.83	10656.52	10666.35	10687.64
12	10608.63	10635.77	10679.96	10694.55	10713.56
13	10628.37	10662.27	10702.39	10717.27	10739.69
14	10649.18	10683.42	10724.83	10746.43	10767.01
15	10670.72	10705.37	10748.99	10769.99	10798.07
16	10690.65	10729.83	10779.27	10796.60	10827.31
17	10712.26	10756.42	10806.50	10824.13	10851.94
18	10738.33	10777.58	10826.76	10851.52	10881.98
19	10761.67	10801.38	10852.83	10876.82	10906.54

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CANDELA TABULATION - (Cont.)

20	10780.26	10825.15	10880.60	10904.20	10933.32
21	10802.83	10847.17	10902.79	10931.22	10959.62
22	10823.35	10872.15	10924.04	10950.38	10983.13
23	10844.56	10890.18	10946.64	10971.96	11002.67
24	10867.13	10905.89	10964.65	10985.97	11019.47
25	10882.03	10922.36	10975.78	11001.67	11032.37
26	10894.82	10936.71	10990.99	11009.65	11039.82
27	10899.98	10946.03	10994.60	11017.45	11039.86
28	10894.93	10941.20	10995.28	11010.23	11036.46
29	10889.55	10933.70	10978.15	10997.93	11016.41
30	10876.69	10917.17	10951.74	10970.29	10990.25
31	10855.34	10892.92	10937.55	10938.50	10955.55
32	10819.43	10855.08	10877.68	10891.05	10904.93
33	10768.60	10804.05	10822.47	10830.10	10836.78
34	10705.85	10738.32	10745.90	10750.18	10754.38
35	10623.69	10648.89	10655.11	10656.51	10654.22
36	10528.93	10546.70	10538.80	10537.03	10528.86
37	10401.79	10415.26	10402.07	10398.15	10377.64
38	10253.45	10261.35	10247.50	10222.85	10206.02
39	10071.10	10078.85	10048.02	10025.88	9996.54
40	9865.45	9869.70	9821.75	9796.56	9751.33
41	9622.40	9623.07	9573.58	9545.73	9476.75
42	9344.30	9339.12	9282.54	9244.07	9168.28
43	9018.95	9022.56	8956.17	8911.26	8824.14
44	8655.97	8661.77	8590.64	8534.25	8430.24
45	8261.11	8260.86	8182.22	8118.42	8007.68
46	7809.88	7809.56	7726.18	7663.02	7540.90
47	7329.70	7328.44	7245.67	7171.15	7054.13
48	6811.97	6815.37	6739.19	6662.08	6533.71
49	6278.63	6282.84	6205.44	6124.63	6006.30
50	5732.32	5737.50	5663.25	5590.49	5465.18
51	5172.47	5179.35	5116.34	5046.88	4922.30
52	4627.70	4631.91	4557.49	4507.26	4386.14
53	4083.04	4081.01	4004.22	3970.97	3860.98
54	3544.42	3541.35	3460.11	3435.56	3336.04
55	3023.41	3013.17	2933.86	2920.10	2824.82
56	2515.14	2507.63	2424.55	2456.93	2319.90
57	2041.55	2067.33	1954.59	1993.76	1853.24
58	1606.03	1628.07	1538.27	1533.21	1444.17
59	1239.61	1262.42	1190.72	1175.31	1105.58
60	933.80	954.90	905.66	896.31	916.31
61	771.56	721.91	752.85	692.34	727.77
62	609.59	557.88	600.27	550.73	539.22
63	447.62	453.97	447.69	462.60	458.91
64	388.28	392.58	391.27	403.49	406.01
65	353.39	354.22	353.77	362.37	366.22
66	329.29	327.96	326.94	332.83	336.87
67	310.37	308.57	306.43	311.88	314.93
68	294.25	292.04	289.29	294.64	297.33
69	279.26	277.48	274.92	279.58	281.75
70	266.04	264.34	261.71	265.84	267.20
71	253.90	251.98	249.02	252.76	254.15
72	241.24	239.59	236.53	239.78	241.03
73	227.83	225.85	224.05	226.15	227.81
74	214.27	212.10	210.89	212.53	214.09
75	200.11	198.36	196.50	198.91	199.56

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CANDELA TABULATION - (Cont.)

76	185.86	184.57	182.91	185.02	185.10
77	171.42	171.30	169.11	171.69	170.56
78	157.59	157.98	155.44	158.19	156.11
79	143.67	145.21	141.93	144.85	142.47
80	130.12	132.12	128.93	131.47	128.93
81	116.64	119.47	116.27	118.10	116.47
82	103.64	106.61	103.48	105.43	103.96
83	90.56	94.38	90.66	92.99	90.67
84	75.05	81.51	77.70	80.78	77.04
85	59.47	67.14	64.74	67.53	63.40
86	42.24	51.43	50.28	53.54	49.75
87	26.60	35.70	34.36	36.64	35.97
88	12.18	19.97	19.27	19.75	13.16
89	8.10	4.55	12.73	3.11	8.59
90	4.10	0.08	6.42	0.06	4.34
91	0.10	0.05	0.10	0.05	0.10
92	0.06	0.05	0.06	0.05	0.06
93	0.07	0.06	0.07	0.07	0.11
94	0.08	0.08	0.08	0.10	0.14
95	0.09	0.09	0.09	0.11	0.15
96	0.10	0.10	0.11	0.12	0.16
97	0.13	0.13	0.14	0.15	0.19
98	0.15	0.15	0.16	0.18	0.21
99	0.17	0.17	0.18	0.20	0.23
100	0.19	0.19	0.20	0.22	0.25
101	0.21	0.21	0.23	0.24	0.27
102	0.24	0.24	0.25	0.27	0.30
103	0.26	0.27	0.28	0.30	0.32
104	0.29	0.29	0.31	0.33	0.35
105	0.33	0.33	0.34	0.36	0.39
106	0.36	0.36	0.38	0.40	0.42
107	0.40	0.41	0.43	0.44	0.47
108	0.45	0.45	0.47	0.49	0.52
109	0.50	0.50	0.53	0.54	0.57
110	0.55	0.55	0.59	0.61	0.64
111	0.61	0.61	0.65	0.67	0.71
112	0.67	0.67	0.71	0.74	0.78
113	0.74	0.75	0.78	0.82	0.86
114	0.82	0.82	0.85	0.90	0.95
115	0.90	0.91	0.93	0.99	1.04
116	0.98	1.00	1.02	1.08	1.13
117	1.08	1.10	1.13	1.18	1.23
118	1.17	1.20	1.24	1.28	1.33
119	1.28	1.30	1.36	1.38	1.44
120	1.39	1.41	1.48	1.48	1.55
121	1.50	1.51	1.60	1.59	1.66
122	1.62	1.63	1.73	1.68	1.78
123	1.73	1.75	1.85	1.77	1.89
124	1.84	1.86	1.98	1.86	2.01
125	1.96	1.98	2.11	1.96	2.12
126	2.08	2.09	2.25	2.09	2.24
127	2.22	2.21	2.38	2.22	2.36
128	2.37	2.33	2.53	2.37	2.49
129	2.51	2.45	2.67	2.54	2.61
130	2.67	2.57	2.81	2.71	2.75
131	2.82	2.69	2.95	2.88	2.89

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

132	2.96	2.82	3.08	3.06	3.04
133	3.09	2.94	3.21	3.24	3.19
134	3.22	3.06	3.32	3.40	3.33
135	3.36	3.19	3.43	3.53	3.46
136	3.52	3.35	3.56	3.67	3.58
137	3.67	3.55	3.70	3.82	3.74
138	3.81	3.78	3.88	3.99	3.89
139	3.95	3.95	4.06	4.15	4.04
140	4.12	4.09	4.24	4.31	4.19
141	4.30	4.21	4.41	4.47	4.37
142	4.48	4.33	4.59	4.62	4.52
143	4.64	4.46	4.76	4.75	4.67
144	4.81	4.62	4.91	4.87	4.80
145	5.00	4.80	5.01	5.00	4.96
146	5.18	4.96	5.09	5.12	5.10
147	5.34	5.12	5.16	5.24	5.21
148	5.48	5.28	5.22	5.36	5.28
149	5.65	5.42	5.29	5.48	5.34
150	5.83	5.54	5.36	5.58	5.39
151	6.02	5.66	5.46	5.67	5.48
152	6.22	5.78	5.58	5.77	5.57
153	6.39	5.88	5.72	5.89	5.67
154	6.53	5.96	5.86	6.00	5.73
155	6.65	6.06	5.98	6.09	5.74
156	6.77	6.16	6.05	6.16	5.76
157	6.86	6.27	6.10	6.19	5.80
158	6.91	6.39	6.17	6.21	5.84
159	6.94	6.51	6.24	6.23	5.89
160	6.96	6.63	6.32	6.24	5.94
161	6.98	6.73	6.42	6.27	5.98
162	7.01	6.82	6.51	6.33	6.04
163	7.12	6.94	6.62	6.47	6.18
164	7.23	7.09	6.74	6.65	6.38
165	7.38	7.25	6.91	6.83	6.61
166	7.54	7.43	7.11	7.03	6.82
167	7.67	7.62	7.26	7.18	6.97
168	7.82	7.73	7.34	7.24	7.08
169	7.92	7.85	7.34	7.29	7.21
170	7.94	7.89	7.32	7.32	7.28
171	7.93	7.90	7.35	7.37	7.30
172	8.00	7.99	7.50	7.48	7.37
173	8.17	8.17	7.68	7.63	7.47
174	8.52	8.49	8.05	7.92	7.70
175	8.86	8.83	8.40	8.22	7.93
176	9.08	9.02	8.62	8.48	8.12
177	9.26	9.19	8.79	8.69	8.32
178	9.37	9.29	8.93	8.82	8.46
179	9.46	9.39	9.06	8.92	8.70
180	8.93	8.93	8.93	8.93	8.93

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	4029.79	16.10	16.10
0-30	9062.35	36.20	36.20
0-40	15668.97	62.50	62.50
0-60	24378.11	97.30	97.30
0-80	24987.56	99.70	99.70
0-90	25047.93	99.90	99.90
10-90	24043.38	95.90	95.90
20-40	11639.17	46.40	46.40
20-50	17750.97	70.80	70.80
40-70	9118.26	36.40	36.40
60-80	609.46	2.40	2.40
70-80	200.34	0.80	0.80
80-90	60.36	0.20	0.20
90-110	1.02	0.00	0.00
90-120	2.51	0.00	0.00
90-130	5.02	0.00	0.00
90-150	12.33	0.00	0.00
90-180	19.10	0.10	0.10
110-180	18.09	0.10	0.10
0-180	25067.03	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1004.55
10-20	3025.25
20-30	5032.56
30-40	6606.62
40-50	6111.8
50-60	2597.34
60-70	409.12
70-80	200.34
80-90	60.36
90-100	0.28
100-110	0.74
110-120	1.49
120-130	2.51
130-140	3.46
140-150	3.85
150-160	3.53
160-170	2.41
170-180	0.84

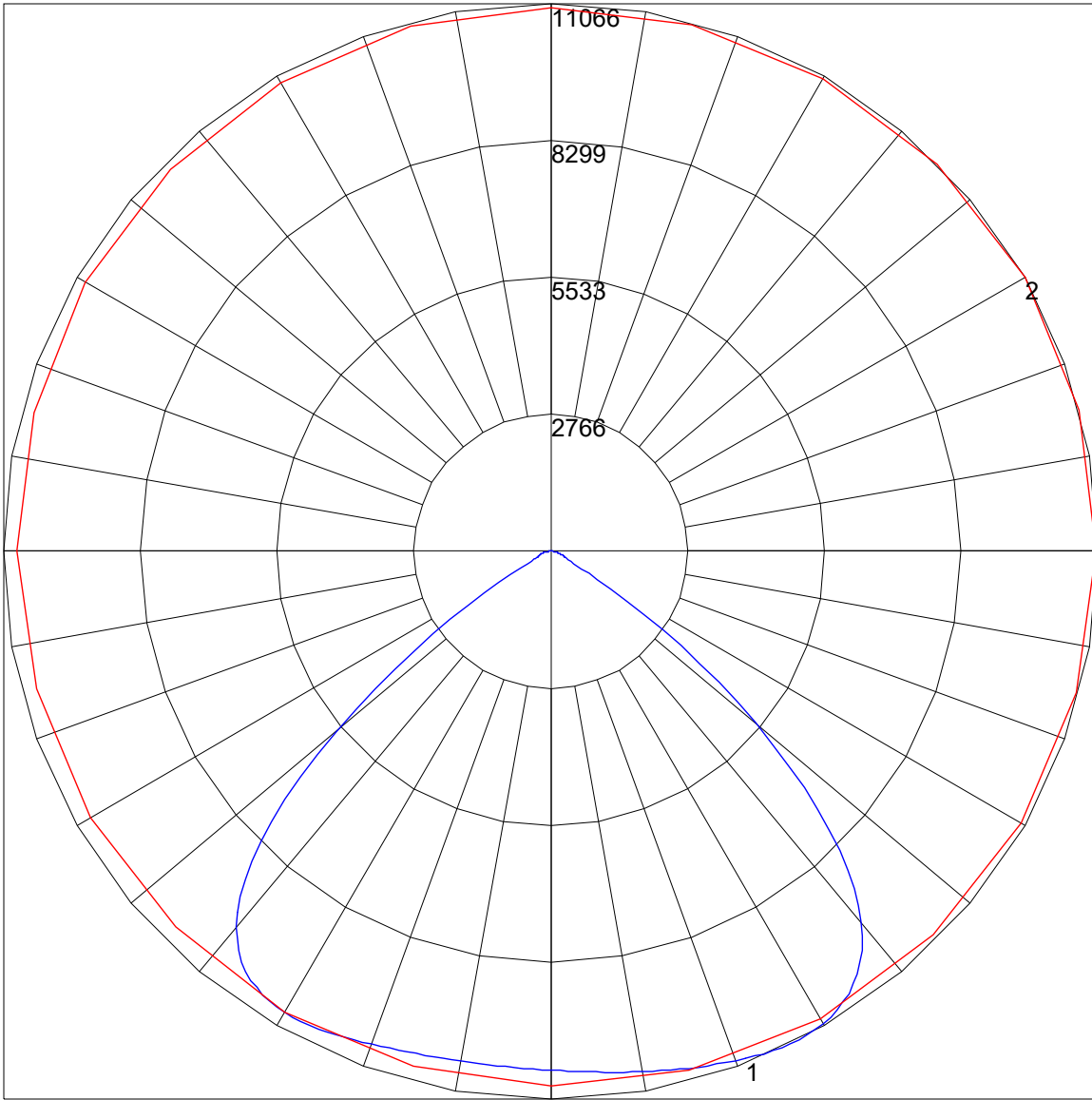
IES INDOOR REPORT
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	89	79	72	67	87	78	71	66	76	70	65	74	69	64	72	67	64	62
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	61	57	55
6	77	65	58	52	75	65	57	52	63	56	51	61	55	51	60	55	51	49
7	72	60	52	46	70	59	52	46	57	51	46	56	50	46	55	49	45	44
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	50	45	41	39
9	62	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32

POLAR GRAPH



Maximum Candela = 11065.64 Located At Horizontal Angle = 30, Vertical Angle = 27
1 - Vertical Plane Through Horizontal Angles (30 - 210) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (27) (Through Max. Cd.)