



IES INDOOR REPORT
PHOTOMETRIC FILENAME : HBRMSR-LED200DMV50.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 09:45:56
 [NEARFIELD]
 [LAMPPOSITION] 0,0
 [OTHER] EVERFINE GO-R5000_V2 SYSTEM
 [MANUFAC] Mobern Lighting Co.
 [LUMCAT] HBRMSR-LED200DMV50
 [MORE] MHB04
 [LUMINAIRE] LED
 [BALLAST] 120-277Vac,50/60Hz
 [OTHER]
 [OTHER] Gamma(deg) Fz(lm) Ft(lm) %Lum %Lamp
 [OTHER] 0- 10 1192.23 1192.23 3.98 3.98
 [OTHER] 10- 20 3606.26 4798.48 16.03 16.03
 [OTHER] 20- 30 6021.42 10819.91 36.15 36.15
 [OTHER] 30- 40 7932.78 18752.69 62.65 62.65
 [OTHER] 40- 50 7332.31 26085.00 87.15 87.15
 [OTHER] 50- 60 3013.57 29098.56 97.22 97.22
 [OTHER] 60- 70 495.49 29594.05 98.88 98.88
 [OTHER] 70- 80 242.77 29836.82 99.69 99.69
 [OTHER] 80- 90 70.89 29907.70 99.92 99.92
 [OTHER] 90-100 0.33 29908.03 99.93 99.93
 [OTHER] 100-110 0.87 29908.90 99.93 99.93
 [OTHER] 110-120 1.79 29910.69 99.93 99.93
 [OTHER] 120-130 3.00 29913.69 99.94 99.94
 [OTHER] 130-140 4.10 29917.79 99.96 99.96
 [OTHER] 140-150 4.56 29922.35 99.97 99.97
 [OTHER] 150-160 4.20 29926.56 99.99 99.99
 [OTHER] 160-170 2.88 29929.44 100.00 100.00
 [OTHER] 170-180 1.01 29930.45 100.00 100.00
 [OTHER]

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CHARACTERISTICS

Lumens Per Lamp	29930 (1 lamp)
Total Lamp Lumens	29930
Luminaire Lumens	29930
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	150
Total Luminaire Watts	199.361
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.54
Spacing Criterion (90-270)	1.54
Spacing Criterion (Diagonal)	1.48
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	147932	145939	143204
55	61407	58612	56438
65	10364	10679	10220
75	9000	8922	9085
85	8149	7063	5989

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CANDELA TABULATION

	0	15	30	45	60	75	90	105	120	135
0	12407.26	12407.26	12407.26	12407.26	12407.26	12407.26	12407.26	12407.26	12407.26	12407.26
1	12372.70	12374.13	12375.68	12375.75	12388.22	12397.97	12405.80	12407.51	12418.77	12427.59
2	12346.78	12349.52	12350.15	12357.19	12372.10	12390.25	12400.00	12416.27	12439.16	12455.16
3	12320.33	12323.86	12323.40	12341.99	12367.66	12383.75	12409.53	12427.42	12464.44	12487.76
4	12300.60	12303.58	12305.10	12325.29	12358.66	12386.16	12414.02	12448.27	12484.89	12517.16
5	12285.71	12284.93	12287.96	12311.12	12356.68	12388.57	12424.82	12464.91	12514.73	12554.94
6	12264.82	12265.19	12274.98	12302.58	12343.73	12390.97	12432.66	12488.97	12541.84	12593.05
7	12247.24	12248.86	12256.50	12289.91	12340.39	12393.38	12446.30	12514.91	12573.51	12635.68
8	12234.78	12234.30	12241.52	12284.09	12339.98	12395.79	12462.64	12535.60	12605.39	12675.41
9	12223.91	12216.87	12232.16	12275.08	12339.26	12404.54	12477.22	12559.90	12642.07	12716.20
10	12212.78	12203.81	12219.84	12266.85	12344.18	12410.42	12500.01	12589.66	12671.39	12755.35
11	12202.08	12195.17	12218.99	12263.37	12343.98	12422.59	12520.54	12619.28	12714.27	12804.86
12	12198.05	12197.15	12210.65	12269.44	12350.04	12437.40	12539.32	12653.66	12747.87	12850.80
13	12200.12	12189.34	12213.83	12270.69	12362.22	12454.15	12565.20	12684.87	12790.85	12896.56
14	12195.56	12191.88	12215.68	12279.90	12374.86	12476.13	12595.03	12718.57	12829.74	12941.31
15	12202.93	12193.69	12218.94	12289.18	12384.71	12489.03	12623.84	12754.61	12871.77	12987.29
16	12209.40	12197.49	12232.71	12300.00	12402.83	12517.91	12650.81	12793.01	12909.63	13034.10
17	12219.70	12213.78	12243.47	12310.75	12424.97	12542.20	12679.43	12830.74	12956.24	13077.20
18	12233.17	12224.20	12256.71	12332.35	12447.83	12579.33	12713.34	12865.62	13004.63	13125.27
19	12257.53	12244.07	12271.42	12352.71	12466.99	12599.99	12750.77	12904.07	13039.95	13163.38
20	12273.95	12260.63	12296.56	12377.84	12496.10	12636.08	12782.79	12946.93	13082.91	13206.90
21	12297.96	12286.89	12316.69	12399.53	12528.53	12667.70	12823.08	12984.01	13118.59	13248.22
22	12324.62	12309.80	12344.55	12430.51	12556.60	12693.86	12862.19	13022.20	13165.41	13286.67
23	12354.11	12336.15	12374.39	12460.46	12586.99	12732.89	12897.89	13052.79	13196.52	13318.62
24	12384.21	12364.63	12401.31	12489.35	12623.48	12762.39	12932.14	13086.44	13232.26	13338.77
25	12408.89	12400.13	12433.96	12527.11	12652.56	12791.73	12961.54	13118.20	13255.14	13366.73
26	12440.56	12428.87	12462.94	12554.31	12678.51	12820.59	12996.11	13138.53	13274.77	13379.66
27	12474.95	12463.11	12498.58	12583.29	12708.83	12849.26	13020.46	13157.22	13286.53	13384.67
28	12506.05	12492.90	12524.17	12610.70	12730.97	12868.80	13037.87	13163.21	13286.00	13377.99
29	12528.57	12518.59	12547.65	12630.97	12748.32	12881.35	13040.24	13165.85	13278.19	13352.39
30	12550.39	12539.77	12572.46	12640.66	12752.44	12882.06	13035.60	13147.40	13252.09	13318.02
31	12562.77	12554.46	12576.49	12647.20	12752.12	12870.45	13018.87	13118.54	13217.03	13268.21
32	12569.50	12560.36	12574.78	12648.24	12740.93	12855.96	12986.83	13072.90	13161.17	13198.11
33	12562.90	12551.47	12563.38	12629.37	12714.43	12824.46	12941.53	13007.02	13086.35	13105.13
34	12538.91	12530.38	12538.94	12597.46	12663.28	12770.00	12876.21	12926.02	12984.54	12986.89
35	12504.47	12495.02	12497.81	12543.85	12596.52	12688.28	12785.60	12808.02	12861.87	12849.56
36	12443.37	12435.16	12426.55	12468.39	12509.13	12579.17	12667.63	12667.43	12713.41	12672.07
37	12347.68	12354.40	12336.53	12365.12	12382.23	12454.70	12514.79	12501.55	12519.28	12469.52
38	12234.71	12231.42	12210.41	12231.65	12239.54	12290.05	12331.92	12287.38	12293.81	12226.22
39	12079.60	12077.66	12044.29	12059.01	12049.20	12079.28	12111.98	12043.56	12030.50	11945.82
40	11879.02	11882.16	11844.34	11849.17	11814.38	11833.97	11841.86	11748.36	11727.34	11626.58
41	11641.34	11645.82	11585.24	11584.53	11530.34	11535.72	11535.85	11409.49	11373.56	11259.20
42	11341.31	11349.72	11273.51	11260.29	11194.80	11189.46	11172.29	11006.98	10971.91	10843.25
43	10985.25	10999.19	10905.55	10884.69	10801.21	10784.30	10752.98	10569.51	10511.03	10379.10
44	10555.32	10579.01	10464.22	10440.63	10340.73	10321.56	10284.79	10067.13	10018.17	9869.22
45	10068.34	10095.40	9965.68	9932.66	9816.53	9795.16	9746.53	9513.67	9463.12	9307.10
46	9515.59	9537.31	9382.48	9367.36	9238.79	9210.92	9165.53	8915.78	8876.96	8714.92
47	8892.30	8918.74	8757.03	8735.27	8609.37	8588.08	8530.76	8262.43	8231.27	8078.49
48	8215.94	8248.69	8073.49	8065.85	7946.85	7913.30	7858.27	7593.52	7572.04	7415.42
49	7514.66	7540.82	7380.25	7352.51	7241.92	7214.21	7156.78	6903.69	6884.13	6741.86
50	6790.40	6820.22	6656.87	6636.41	6522.21	6498.39	6455.39	6207.84	6195.12	6060.92
51	6083.85	6100.49	5941.05	5917.46	5806.74	5778.82	5752.13	5515.15	5517.97	5372.97
52	5371.68	5381.33	5231.17	5212.55	5092.73	5074.36	5069.44	4831.32	4836.85	4712.34
53	4691.62	4686.72	4545.55	4522.22	4411.34	4396.00	4388.29	4179.39	4183.73	4071.82

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54	4021.65	4021.27	3878.55	3855.26	3745.70	3745.22	3740.16	3535.16	3558.60	3469.10
55	3390.13	3383.00	3255.10	3235.85	3128.12	3122.70	3115.82	2942.19	2989.69	2912.12
56	2779.86	2791.43	2667.81	2655.42	2555.44	2626.74	2624.92	2414.30	2533.22	2415.58
57	2226.03	2318.31	2144.81	2209.41	2050.04	2131.87	2134.01	1945.37	2076.75	1969.44
58	1740.64	1845.18	1681.56	1763.41	1607.23	1637.00	1643.53	1544.82	1621.48	1576.25
59	1334.94	1374.10	1296.36	1319.25	1255.31	1279.21	1287.37	1206.21	1271.77	1239.37
60	1015.31	1042.98	1001.72	1032.74	986.03	1001.53	1011.82	948.81	990.12	965.76
61	851.37	804.11	846.49	820.85	836.65	794.79	804.60	797.17	771.00	809.17
62	692.05	647.08	694.64	668.36	688.15	643.63	644.63	648.72	611.89	653.45
63	532.74	545.87	542.78	561.32	539.65	540.62	533.01	500.26	505.48	497.73
64	468.34	478.07	473.06	486.15	468.83	468.11	460.35	439.80	440.18	436.57
65	421.60	429.52	424.06	434.40	417.51	417.84	415.72	401.59	400.68	401.05
66	385.63	391.33	388.63	396.64	383.13	383.72	386.85	375.74	375.04	376.26
67	359.21	363.34	360.36	367.68	357.58	358.79	363.62	354.70	354.15	355.20
68	336.59	339.96	338.37	343.64	336.73	338.26	343.42	336.56	335.78	337.80
69	317.40	320.85	319.58	322.48	319.40	320.16	325.43	319.77	319.22	321.34
70	300.27	304.72	302.05	303.76	303.01	304.31	308.67	303.01	302.95	305.31
71	284.99	288.89	286.34	287.23	287.77	289.20	292.78	287.05	287.08	289.08
72	270.00	273.90	270.13	271.70	273.24	274.65	277.57	270.81	270.91	272.85
73	255.22	258.75	253.65	255.72	258.12	260.12	261.58	254.30	254.55	256.14
74	239.91	242.99	237.85	238.99	241.94	244.25	244.67	237.74	238.06	238.75
75	224.20	225.78	221.41	222.27	224.01	225.78	226.32	220.74	221.57	221.56
76	208.07	208.58	204.87	205.53	206.65	207.30	207.98	203.61	205.08	204.57
77	191.72	191.12	188.27	188.42	189.02	190.08	191.03	186.40	189.62	188.32
78	175.19	174.52	172.39	172.07	172.48	171.83	172.28	168.70	173.28	172.15
79	159.39	158.32	156.88	155.97	155.97	154.59	155.60	152.04	157.60	156.53
80	143.89	142.92	141.37	140.71	139.72	138.05	138.88	135.58	141.14	140.79
81	128.42	127.90	126.46	125.90	124.20	121.83	121.81	119.57	125.09	125.60
82	113.48	113.41	111.59	110.47	108.23	105.38	105.43	102.82	108.41	110.01
83	98.87	98.58	96.40	94.22	89.41	87.27	87.27	83.31	91.62	93.08
84	83.62	82.49	79.97	77.13	70.50	67.11	67.92	63.74	73.41	74.66
85	68.36	67.04	63.54	59.25	51.60	48.54	50.24	44.17	53.31	56.23
86	53.10	52.35	47.10	41.46	32.20	32.92	34.17	26.07	36.70	37.79
87	37.84	34.96	28.84	23.68	14.75	17.30	18.09	9.15	20.09	18.92
88	13.77	17.58	5.03	6.20	9.72	1.78	2.05	4.65	3.66	5.67
89	9.25	0.32	2.35	0.13	4.91	0.13	0.31	0.40	0.33	2.92
90	4.73	0.08	0.10	0.07	0.10	0.07	0.24	0.24	0.23	0.29
91	0.21	0.08	0.08	0.08	0.08	0.08	0.26	0.26	0.25	0.25
92	0.09	0.09	0.09	0.09	0.09	0.08	0.28	0.28	0.27	0.27
93	0.10	0.10	0.10	0.10	0.10	0.09	0.31	0.31	0.30	0.30
94	0.11	0.11	0.11	0.11	0.11	0.10	0.34	0.34	0.33	0.34
95	0.12	0.12	0.12	0.12	0.12	0.11	0.38	0.38	0.38	0.38
96	0.13	0.13	0.14	0.14	0.14	0.13	0.43	0.44	0.43	0.44
97	0.15	0.15	0.16	0.16	0.16	0.15	0.48	0.50	0.50	0.51
98	0.17	0.17	0.18	0.18	0.18	0.17	0.55	0.56	0.56	0.57
99	0.19	0.19	0.20	0.20	0.20	0.19	0.62	0.64	0.63	0.65
100	0.22	0.22	0.23	0.22	0.23	0.22	0.71	0.72	0.72	0.73
101	0.25	0.25	0.26	0.25	0.26	0.25	0.80	0.82	0.81	0.83
102	0.28	0.28	0.29	0.29	0.29	0.28	0.90	0.93	0.91	0.93
103	0.31	0.31	0.32	0.32	0.33	0.32	1.02	1.05	1.03	1.05
104	0.35	0.35	0.36	0.36	0.36	0.35	1.14	1.17	1.16	1.18
105	0.39	0.39	0.40	0.40	0.41	0.39	1.25	1.28	1.28	1.29
106	0.43	0.43	0.45	0.44	0.45	0.44	1.36	1.39	1.39	1.40
107	0.49	0.48	0.50	0.50	0.51	0.49	1.46	1.49	1.49	1.51
108	0.54	0.54	0.56	0.56	0.57	0.55	1.56	1.59	1.60	1.62
109	0.61	0.61	0.63	0.62	0.63	0.61	1.66	1.69	1.71	1.74

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110	0.68	0.68	0.70	0.70	0.70	0.68	1.76	1.80	1.81	1.85
111	0.77	0.76	0.78	0.77	0.78	0.75	1.86	1.90	1.92	1.98
112	0.85	0.85	0.87	0.86	0.86	0.83	1.96	2.01	2.04	2.10
113	0.95	0.95	0.97	0.95	0.94	0.92	2.06	2.12	2.16	2.23
114	1.05	1.05	1.07	1.05	1.04	1.01	2.18	2.25	2.29	2.37
115	1.16	1.16	1.18	1.15	1.14	1.11	2.31	2.38	2.42	2.51
116	1.27	1.27	1.30	1.26	1.25	1.22	2.43	2.52	2.57	2.67
117	1.39	1.39	1.42	1.38	1.36	1.33	2.59	2.71	2.76	2.84
118	1.51	1.52	1.54	1.50	1.49	1.46	2.86	2.91	2.95	3.03
119	1.64	1.65	1.67	1.63	1.62	1.58	3.03	3.09	3.12	3.21
120	1.78	1.79	1.81	1.76	1.76	1.71	3.19	3.27	3.29	3.40
121	1.91	1.93	1.94	1.90	1.90	1.84	3.36	3.45	3.47	3.58
122	2.05	2.07	2.08	2.03	2.05	1.97	3.53	3.62	3.63	3.77
123	2.19	2.21	2.22	2.17	2.19	2.10	3.70	3.81	3.81	3.97
124	2.34	2.35	2.35	2.31	2.34	2.24	3.90	4.01	4.00	4.17
125	2.48	2.49	2.49	2.45	2.49	2.38	4.10	4.21	4.21	4.38
126	2.63	2.64	2.63	2.58	2.63	2.52	4.31	4.41	4.43	4.60
127	2.78	2.79	2.78	2.73	2.78	2.67	4.53	4.63	4.66	4.83
128	2.93	2.94	2.94	2.87	2.94	2.85	4.75	4.87	4.92	5.06
129	3.09	3.09	3.10	3.01	3.10	3.03	4.98	5.13	5.17	5.29
130	3.25	3.26	3.27	3.17	3.27	3.21	5.22	5.37	5.43	5.54
131	3.43	3.43	3.44	3.33	3.42	3.40	5.48	5.62	5.69	5.81
132	3.61	3.62	3.60	3.49	3.58	3.59	5.72	5.86	5.95	6.07
133	3.80	3.81	3.77	3.66	3.74	3.79	5.92	6.10	6.20	6.34
134	3.97	3.99	3.94	3.86	3.90	3.98	6.11	6.32	6.42	6.58
135	4.13	4.16	4.10	4.05	4.05	4.16	6.31	6.52	6.62	6.80
136	4.28	4.31	4.26	4.25	4.20	4.35	6.51	6.71	6.83	7.01
137	4.46	4.48	4.42	4.45	4.38	4.54	6.69	6.92	7.03	7.23
138	4.66	4.64	4.60	4.66	4.55	4.73	6.87	7.13	7.23	7.46
139	4.84	4.82	4.78	4.85	4.73	4.92	7.11	7.32	7.42	7.67
140	5.02	4.99	4.97	5.02	4.91	5.10	7.30	7.53	7.61	7.88
141	5.23	5.17	5.17	5.18	5.09	5.28	7.51	7.75	7.83	8.11
142	5.41	5.37	5.39	5.35	5.29	5.46	7.73	7.99	8.07	8.32
143	5.59	5.57	5.62	5.52	5.48	5.64	7.95	8.24	8.32	8.53
144	5.75	5.79	5.81	5.69	5.67	5.83	8.17	8.52	8.55	8.75
145	5.95	5.99	5.97	5.88	5.85	6.01	8.47	8.78	8.78	8.98
146	6.11	6.18	6.10	6.08	6.03	6.18	8.72	9.05	8.99	9.22
147	6.24	6.32	6.23	6.27	6.20	6.36	8.98	9.26	9.20	9.48
148	6.33	6.44	6.34	6.44	6.36	6.52	9.22	9.46	9.41	9.74
149	6.40	6.53	6.48	6.61	6.55	6.67	9.44	9.65	9.62	9.99
150	6.47	6.63	6.64	6.78	6.76	6.81	9.65	9.83	9.88	10.23
151	6.58	6.75	6.82	6.96	6.99	6.95	9.86	10.02	10.14	10.44
152	6.69	6.92	6.99	7.14	7.25	7.10	10.07	10.19	10.41	10.62
153	6.81	7.07	7.15	7.29	7.50	7.22	10.24	10.36	10.72	10.82
154	6.88	7.19	7.30	7.43	7.71	7.36	10.43	10.54	11.00	11.01
155	6.91	7.32	7.44	7.56	7.92	7.55	10.63	10.79	11.24	11.20
156	6.93	7.43	7.56	7.70	8.07	7.77	10.86	11.07	11.46	11.39
157	6.98	7.53	7.69	7.87	8.18	7.97	11.13	11.32	11.62	11.59
158	7.01	7.66	7.82	8.05	8.27	8.15	11.40	11.56	11.78	11.80
159	7.07	7.76	7.92	8.21	8.33	8.25	11.64	11.71	11.92	12.00
160	7.13	7.83	8.04	8.35	8.36	8.30	11.79	11.82	12.01	12.16
161	7.17	7.90	8.15	8.45	8.40	8.35	11.84	11.88	12.07	12.27
162	7.24	7.98	8.24	8.52	8.42	8.40	11.83	11.89	12.08	12.32
163	7.41	8.08	8.38	8.62	8.47	8.48	11.83	11.89	12.09	12.36
164	7.63	8.22	8.54	8.71	8.55	8.60	11.82	11.93	12.12	12.42
165	7.90	8.38	8.72	8.83	8.69	8.73	11.85	12.01	12.20	12.49

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CANDELA TABULATION - (Cont.)

166	8.15	8.58	8.90	8.98	8.88	8.92	11.82	12.08	12.29	12.54
167	8.31	8.76	9.02	9.06	9.02	9.09	11.84	12.12	12.33	12.55
168	8.45	8.88	9.12	9.11	9.13	9.21	11.84	12.11	12.33	12.49
169	8.61	8.89	9.15	9.16	9.19	9.28	11.80	12.03	12.25	12.35
170	8.70	8.76	9.08	9.14	9.16	9.27	11.76	11.95	12.14	12.27
171	8.73	8.63	9.05	9.11	9.13	9.25	11.77	11.94	12.13	12.22
172	8.82	8.76	9.18	9.18	9.23	9.34	11.79	11.95	12.12	12.14
173	8.96	9.00	9.39	9.37	9.42	9.55	11.72	11.89	12.06	12.01
174	9.24	9.33	9.70	9.75	9.79	9.95	11.70	11.89	12.01	11.94
175	9.53	9.73	10.10	10.16	10.23	10.38	11.67	11.86	11.97	11.88
176	9.79	9.96	10.37	10.33	10.49	10.67	11.53	11.75	11.85	11.77
177	10.05	10.13	10.53	10.49	10.64	10.81	11.42	11.64	11.75	11.67
178	10.25	10.20	10.58	10.59	10.66	10.86	11.20	11.42	11.52	11.47
179	10.55	10.29	10.52	10.67	10.69	10.90	11.10	11.34	11.42	11.38
180	10.84	10.84	10.84	10.84	10.84	10.84	10.84	10.84	10.84	10.84

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	12407.26	12407.26	12407.26	12407.26	12407.26	12407.26	12407.26	12407.26	12407.26	12407.26
1	12435.83	12445.69	12438.20	12441.07	12434.98	12438.36	12427.26	12428.12	12420.27	12399.97
2	12472.45	12481.70	12477.21	12483.08	12475.91	12465.24	12458.44	12447.72	12428.91	12405.22
3	12509.25	12519.63	12523.01	12524.66	12521.93	12511.73	12490.62	12470.13	12452.41	12414.15
4	12551.78	12566.93	12571.65	12576.66	12565.92	12548.44	12525.23	12493.98	12469.75	12423.93
5	12593.93	12615.01	12620.58	12628.17	12614.59	12594.44	12560.92	12528.98	12493.84	12432.96
6	12636.97	12660.85	12670.04	12672.41	12664.48	12638.30	12604.36	12560.37	12516.85	12449.20
7	12686.34	12711.61	12725.70	12733.91	12715.21	12688.67	12645.15	12598.75	12539.79	12467.96
8	12729.37	12762.98	12782.25	12780.84	12773.51	12732.91	12687.25	12626.80	12571.23	12485.37
9	12781.50	12816.38	12833.10	12844.15	12824.54	12780.80	12735.39	12663.13	12597.06	12509.16
10	12824.00	12867.50	12888.60	12891.81	12875.47	12836.55	12779.81	12702.58	12627.82	12529.81
11	12878.60	12923.30	12946.52	12945.27	12927.65	12887.11	12831.32	12746.73	12658.96	12555.85
12	12929.23	12976.50	13000.52	13001.46	12987.83	12942.90	12878.17	12792.46	12695.55	12582.26
13	12980.07	13031.03	13057.73	13056.37	13037.53	12994.46	12923.74	12829.12	12734.64	12611.52
14	13026.53	13080.08	13109.87	13111.15	13093.44	13041.85	12972.41	12875.23	12768.79	12635.98
15	13078.88	13134.29	13164.36	13165.20	13147.17	13092.96	13021.03	12923.08	12807.08	12671.76
16	13129.20	13185.66	13212.93	13220.22	13197.08	13143.89	13071.39	12971.22	12848.59	12707.30
17	13174.75	13236.47	13269.75	13271.18	13247.49	13194.27	13117.65	13018.50	12888.88	12740.78
18	13219.76	13284.29	13313.93	13316.99	13291.37	13238.63	13165.46	13058.41	12930.01	12781.98
19	13271.96	13328.28	13366.37	13368.84	13342.33	13283.15	13213.11	13106.14	12966.95	12818.96
20	13315.54	13374.29	13409.04	13401.30	13381.29	13319.22	13253.12	13138.99	13007.96	12855.10
21	13356.35	13412.36	13449.35	13441.31	13416.07	13358.57	13291.84	13178.82	13046.45	12898.62
22	13387.75	13449.85	13483.70	13473.73	13449.78	13392.07	13326.03	13217.81	13084.04	12929.22
23	13420.86	13478.50	13514.04	13497.63	13485.45	13425.20	13358.38	13247.21	13116.12	12965.47
24	13444.10	13501.27	13535.53	13522.40	13507.44	13444.85	13383.72	13276.99	13149.90	12995.24
25	13466.01	13511.74	13547.77	13541.28	13506.84	13462.07	13406.50	13304.73	13178.74	13025.40
26	13478.18	13523.52	13557.99	13541.42	13520.10	13475.19	13417.79	13313.34	13198.02	13047.98
27	13479.78	13518.91	13547.98	13535.02	13515.27	13473.17	13425.13	13322.49	13209.52	13069.05
28	13467.81	13506.37	13532.00	13520.10	13498.64	13455.04	13416.30	13326.13	13213.01	13085.01
29	13439.22	13471.35	13503.76	13487.71	13471.84	13434.64	13394.44	13316.83	13207.31	13090.94
30	13401.99	13423.23	13458.70	13440.72	13427.21	13391.86	13368.81	13290.64	13194.44	13085.60
31	13342.74	13361.11	13390.71	13379.71	13373.78	13337.09	13319.32	13256.43	13168.25	13067.11
32	13258.85	13278.75	13311.98	13297.32	13299.23	13268.19	13256.90	13195.98	13119.38	13042.66
33	13165.06	13175.52	13204.84	13193.83	13206.69	13175.81	13174.46	13121.04	13053.54	12991.94
34	13040.75	13044.59	13082.84	13071.16	13087.77	13061.92	13068.54	13025.43	12968.14	12931.13
35	12889.78	12889.07	12923.94	12919.71	12938.02	12918.12	12940.12	12910.59	12859.68	12842.19
36	12715.89	12701.51	12743.95	12736.35	12760.98	12749.36	12791.05	12763.94	12732.31	12731.61

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CANDELA TABULATION - (Cont.)

37	12503.68	12492.19	12531.76	12525.25	12556.11	12541.63	12593.91	12587.28	12566.65	12592.27
38	12255.24	12235.92	12280.83	12275.57	12307.35	12304.80	12375.37	12378.41	12373.40	12427.73
39	11970.39	11949.02	12002.26	11989.52	12032.40	12034.84	12119.06	12140.19	12142.83	12219.54
40	11647.80	11614.70	11670.69	11657.05	11718.36	11723.60	11829.27	11849.01	11871.34	11974.34
41	11273.48	11244.60	11306.58	11294.75	11356.50	11371.52	11490.65	11535.27	11559.73	11688.32
42	10855.73	10823.35	10891.84	10878.28	10955.80	10968.78	11110.07	11163.84	11200.72	11351.81
43	10390.44	10353.81	10435.32	10431.24	10509.25	10532.53	10685.56	10758.96	10797.82	10968.92
44	9880.97	9839.60	9931.52	9931.29	10020.28	10055.93	10212.95	10302.79	10342.34	10527.46
45	9329.57	9289.09	9386.75	9399.96	9488.85	9525.68	9706.18	9790.16	9840.77	10039.30
46	8732.64	8701.24	8813.49	8822.81	8933.57	8969.91	9162.87	9245.04	9284.44	9486.97
47	8103.65	8078.57	8202.76	8211.51	8331.17	8366.53	8559.66	8649.50	8682.91	8888.46
48	7450.04	7438.70	7577.81	7572.23	7697.09	7734.07	7935.56	8023.52	8044.79	8253.60
49	6786.85	6777.41	6917.19	6922.27	7055.66	7088.95	7279.11	7347.03	7368.10	7570.31
50	6107.67	6114.59	6255.41	6252.14	6392.66	6428.03	6609.93	6668.39	6679.72	6871.69
51	5440.42	5444.31	5584.13	5595.60	5736.15	5765.97	5930.91	5967.47	5968.73	6155.11
52	4787.03	4789.57	4924.37	4924.17	5079.57	5093.71	5265.19	5277.45	5278.21	5450.75
53	4160.25	4151.54	4272.57	4296.72	4429.39	4447.19	4595.89	4600.01	4588.37	4763.95
54	3544.20	3540.55	3663.75	3680.76	3808.93	3811.43	3952.78	3943.53	3925.80	4083.13
55	2986.14	2972.06	3081.35	3096.24	3224.39	3220.65	3345.92	3316.13	3293.82	3441.83
56	2531.60	2443.89	2544.00	2564.70	2676.94	2670.35	2774.49	2753.98	2707.68	2841.22
57	2077.05	1981.82	2102.91	2084.20	2244.58	2165.43	2324.58	2227.98	2183.30	2375.62
58	1624.64	1578.91	1664.02	1659.45	1812.23	1731.07	1874.67	1776.86	1726.49	1910.01
59	1280.47	1246.21	1310.11	1298.18	1383.39	1363.11	1427.68	1392.79	1354.01	1447.95
60	1001.04	977.33	1023.29	1012.83	1076.57	1065.65	1108.62	1078.17	1046.81	1122.31
61	780.75	827.67	804.73	852.67	835.57	888.98	853.52	895.07	871.56	860.88
62	625.90	679.19	647.38	694.12	662.83	715.55	670.45	714.41	697.27	672.24
63	521.47	530.72	544.38	535.56	546.05	542.12	547.43	534.26	522.99	548.32
64	459.25	471.25	479.02	474.18	475.14	471.48	473.05	468.10	459.00	473.81
65	422.00	435.85	440.24	435.18	431.83	430.26	429.63	428.00	420.71	429.84
66	395.46	409.30	413.23	406.84	402.72	400.02	401.57	400.25	394.55	398.91
67	373.27	386.72	391.62	383.61	379.50	375.91	378.53	376.59	371.91	374.77
68	354.44	365.74	372.53	363.16	358.45	354.83	358.71	356.23	352.26	353.41
69	337.20	347.28	354.59	344.71	339.66	336.30	339.88	337.64	334.10	334.82
70	320.17	329.78	337.81	328.18	322.51	319.55	322.81	321.45	317.73	317.94
71	303.14	312.83	320.94	312.95	307.29	303.63	307.10	305.59	302.14	301.86
72	285.84	295.70	303.77	297.21	291.58	288.06	291.62	290.51	286.35	286.01
73	267.80	277.16	286.23	280.90	275.70	272.00	275.81	275.29	270.19	269.06
74	250.01	257.99	267.88	263.95	259.38	255.45	260.19	259.00	253.29	252.46
75	232.42	238.79	249.28	245.23	242.67	238.53	243.48	241.83	236.17	234.80
76	214.82	219.26	230.50	226.46	225.99	221.49	226.53	223.88	219.42	217.14
77	197.24	200.69	211.71	207.17	209.31	204.74	209.59	205.43	202.63	199.51
78	180.58	182.64	192.94	189.78	192.95	188.24	192.65	187.05	185.35	182.61
79	164.54	165.70	175.30	172.03	176.39	171.92	175.53	169.38	168.01	166.05
80	148.52	148.81	157.93	155.92	160.06	156.33	158.63	152.46	150.99	149.77
81	132.43	132.49	140.63	139.85	143.60	140.16	141.70	135.40	132.83	133.67
82	116.83	117.46	124.14	124.02	127.73	124.39	124.39	118.02	114.91	117.60
83	101.49	100.75	108.08	107.95	111.55	106.79	106.37	99.44	96.67	101.11
84	85.20	84.29	91.65	91.57	95.35	86.35	87.52	79.60	77.71	82.46
85	68.49	67.85	75.00	74.16	77.29	65.89	66.26	59.76	58.72	61.77
86	50.68	51.40	58.09	56.75	57.75	45.42	45.92	39.93	39.73	43.91
87	34.02	34.36	38.71	39.44	38.88	25.72	30.74	20.94	20.39	29.57
88	17.37	11.53	19.33	11.90	20.01	10.66	15.56	14.00	13.65	15.22
89	0.75	5.89	0.37	6.07	1.47	5.41	0.42	7.16	6.95	1.24
90	0.23	0.26	0.23	0.32	0.23	0.31	0.23	0.33	0.25	0.13
91	0.24	0.25	0.24	0.25	0.24	0.25	0.24	0.24	0.08	0.08
92	0.27	0.27	0.27	0.27	0.26	0.27	0.26	0.26	0.09	0.08

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93	0.29	0.30	0.29	0.29	0.29	0.29	0.29	0.29	0.09	0.09
94	0.33	0.33	0.32	0.33	0.32	0.33	0.32	0.32	0.10	0.10
95	0.37	0.37	0.37	0.37	0.36	0.36	0.36	0.36	0.12	0.11
96	0.42	0.42	0.42	0.42	0.41	0.42	0.41	0.41	0.13	0.12
97	0.50	0.49	0.47	0.48	0.47	0.47	0.46	0.46	0.15	0.14
98	0.56	0.56	0.54	0.55	0.53	0.54	0.52	0.52	0.17	0.16
99	0.64	0.64	0.62	0.62	0.61	0.61	0.59	0.59	0.19	0.18
100	0.72	0.72	0.70	0.71	0.69	0.69	0.67	0.67	0.22	0.20
101	0.81	0.82	0.79	0.80	0.78	0.78	0.76	0.76	0.24	0.23
102	0.92	0.92	0.90	0.91	0.88	0.88	0.86	0.85	0.28	0.26
103	1.04	1.04	1.02	1.03	1.00	1.00	0.97	0.97	0.31	0.29
104	1.16	1.17	1.14	1.15	1.12	1.12	1.09	1.08	0.35	0.33
105	1.28	1.29	1.26	1.27	1.24	1.23	1.20	1.19	0.39	0.37
106	1.39	1.39	1.37	1.37	1.34	1.33	1.30	1.29	0.43	0.41
107	1.50	1.50	1.48	1.48	1.45	1.44	1.40	1.39	0.48	0.46
108	1.61	1.62	1.59	1.59	1.56	1.54	1.50	1.49	0.53	0.51
109	1.73	1.73	1.71	1.71	1.67	1.66	1.61	1.59	0.59	0.57
110	1.85	1.86	1.84	1.84	1.80	1.77	1.71	1.69	0.65	0.63
111	1.98	1.99	1.97	1.97	1.92	1.90	1.82	1.79	0.73	0.69
112	2.11	2.13	2.10	2.10	2.06	2.02	1.94	1.90	0.80	0.76
113	2.25	2.27	2.25	2.25	2.19	2.15	2.06	2.01	0.89	0.83
114	2.39	2.42	2.40	2.40	2.34	2.29	2.19	2.14	0.98	0.89
115	2.54	2.58	2.56	2.56	2.49	2.43	2.32	2.27	1.08	0.97
116	2.70	2.74	2.73	2.72	2.65	2.58	2.46	2.40	1.19	1.07
117	2.86	2.90	2.89	2.88	2.81	2.73	2.63	2.60	1.30	1.19
118	3.02	3.07	3.06	3.05	2.97	2.91	2.80	2.79	1.41	1.31
119	3.21	3.25	3.23	3.23	3.14	3.09	2.97	2.96	1.53	1.43
120	3.40	3.42	3.41	3.40	3.32	3.26	3.15	3.13	1.66	1.55
121	3.59	3.58	3.59	3.57	3.50	3.42	3.33	3.29	1.80	1.69
122	3.79	3.79	3.77	3.74	3.68	3.58	3.49	3.46	1.93	1.82
123	4.01	4.02	3.96	3.95	3.86	3.75	3.66	3.65	2.06	1.96
124	4.24	4.27	4.17	4.18	4.06	3.95	3.86	3.85	2.20	2.10
125	4.46	4.52	4.46	4.42	4.26	4.17	4.05	4.06	2.34	2.25
126	4.69	4.77	4.74	4.67	4.49	4.39	4.26	4.26	2.49	2.40
127	4.93	5.02	5.00	4.91	4.72	4.61	4.46	4.46	2.64	2.54
128	5.18	5.27	5.27	5.16	4.97	4.83	4.69	4.68	2.78	2.69
129	5.44	5.51	5.51	5.41	5.21	5.06	4.92	4.91	2.94	2.85
130	5.69	5.76	5.74	5.64	5.44	5.28	5.18	5.15	3.12	3.02
131	5.95	6.03	5.96	5.85	5.67	5.48	5.43	5.43	3.31	3.21
132	6.19	6.29	6.19	6.06	5.88	5.70	5.68	5.67	3.52	3.41
133	6.43	6.52	6.41	6.27	6.06	5.91	5.90	5.88	3.73	3.62
134	6.67	6.72	6.61	6.48	6.23	6.11	6.09	6.07	3.93	3.84
135	6.89	6.90	6.78	6.70	6.41	6.33	6.28	6.26	4.13	4.04
136	7.11	7.06	6.96	6.88	6.62	6.57	6.45	6.46	4.30	4.23
137	7.32	7.27	7.13	7.04	6.83	6.78	6.62	6.67	4.50	4.43
138	7.52	7.47	7.30	7.21	7.05	7.00	6.83	6.88	4.69	4.65
139	7.70	7.65	7.50	7.36	7.25	7.22	7.05	7.12	4.88	4.86
140	7.88	7.86	7.70	7.53	7.45	7.42	7.26	7.37	5.06	5.05
141	8.11	8.07	7.91	7.72	7.68	7.65	7.50	7.60	5.23	5.26
142	8.35	8.28	8.13	7.90	7.92	7.86	7.73	7.83	5.42	5.48
143	8.59	8.49	8.37	8.05	8.17	8.07	7.96	8.08	5.61	5.69
144	8.84	8.72	8.60	8.24	8.38	8.28	8.19	8.32	5.80	5.90
145	9.07	8.97	8.83	8.48	8.57	8.51	8.42	8.62	5.97	6.09
146	9.30	9.20	9.07	8.78	8.79	8.73	8.66	8.87	6.14	6.26
147	9.52	9.43	9.31	9.12	8.99	9.00	8.91	9.06	6.30	6.43
148	9.72	9.66	9.56	9.41	9.19	9.27	9.12	9.27	6.46	6.58

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

149	9.92	9.89	9.77	9.63	9.37	9.53	9.44	9.51	6.61	6.74
150	10.14	10.08	9.88	9.84	9.56	9.80	9.77	9.74	6.79	6.91
151	10.35	10.25	9.98	10.00	9.74	10.05	10.07	9.97	6.98	7.11
152	10.51	10.44	10.16	10.15	9.94	10.22	10.36	10.18	7.17	7.29
153	10.70	10.64	10.32	10.35	10.22	10.39	10.65	10.36	7.31	7.46
154	10.91	10.82	10.46	10.56	10.50	10.58	10.94	10.55	7.44	7.62
155	11.09	10.98	10.58	10.75	10.71	10.77	11.20	10.74	7.56	7.77
156	11.27	11.10	10.68	10.87	10.90	10.91	11.44	10.99	7.69	7.91
157	11.43	11.25	10.78	10.95	11.02	11.05	11.64	11.24	7.85	8.05
158	11.59	11.43	10.90	11.05	11.13	11.18	11.78	11.48	8.00	8.19
159	11.73	11.59	11.03	11.19	11.24	11.34	11.87	11.70	8.13	8.31
160	11.85	11.73	11.16	11.31	11.36	11.54	11.93	11.82	8.21	8.36
161	11.93	11.79	11.24	11.35	11.44	11.67	11.96	11.89	8.24	8.38
162	11.99	11.81	11.29	11.34	11.48	11.71	11.95	11.91	8.24	8.41
163	12.07	11.84	11.40	11.34	11.50	11.71	11.96	11.91	8.30	8.49
164	12.16	11.89	11.53	11.42	11.52	11.72	11.95	11.94	8.41	8.63
165	12.27	11.98	11.64	11.58	11.56	11.74	11.98	11.98	8.54	8.79
166	12.36	12.05	11.73	11.68	11.60	11.81	12.01	11.96	8.71	8.96
167	12.39	12.04	11.75	11.66	11.57	11.75	12.00	11.94	8.89	9.12
168	12.36	11.96	11.76	11.60	11.45	11.69	11.99	11.90	9.02	9.23
169	12.26	11.79	11.67	11.61	11.36	11.70	11.90	11.78	9.14	9.33
170	12.16	11.67	11.58	11.59	11.15	11.56	11.80	11.67	9.12	9.33
171	12.11	11.61	11.49	11.64	11.10	11.59	11.79	11.72	9.10	9.32
172	12.09	11.62	11.34	11.66	11.18	11.63	11.81	11.77	9.21	9.42
173	12.00	11.55	11.14	11.59	11.13	11.58	11.74	11.73	9.44	9.64
174	11.93	11.50	11.04	11.48	11.08	11.56	11.68	11.73	9.89	10.05
175	11.87	11.39	11.05	11.32	11.04	11.51	11.61	11.72	10.37	10.52
176	11.79	11.32	11.07	11.15	10.95	11.36	11.42	11.56	10.62	10.85
177	11.62	11.22	11.04	10.95	10.88	11.22	11.23	11.39	10.84	11.14
178	11.35	11.06	10.87	10.64	10.73	10.99	10.96	11.14	10.91	11.21
179	11.23	10.99	10.86	10.52	10.68	10.85	10.86	11.07	10.94	11.23
180	10.84	10.84	10.84	10.84	10.84	10.84	10.84	10.84	10.84	10.84

Vert. Horizontal Angles

	<u>300</u>	<u>315</u>	<u>330</u>	<u>345</u>	<u>360</u>
0	12407.26	12407.26	12407.26	12407.26	12407.26
1	12396.42	12386.83	12386.79	12379.81	12372.70
2	12394.99	12376.43	12372.48	12354.90	12346.78
3	12391.03	12362.70	12356.15	12337.85	12320.33
4	12393.51	12357.29	12342.45	12318.84	12300.60
5	12394.97	12355.11	12332.66	12302.18	12285.71
6	12406.35	12353.30	12318.93	12291.05	12264.82
7	12411.61	12352.23	12309.67	12277.80	12247.24
8	12419.21	12352.95	12314.09	12265.39	12234.78
9	12433.08	12358.49	12307.95	12257.27	12223.91
10	12452.42	12364.62	12309.36	12251.32	12212.78
11	12465.23	12375.25	12306.21	12246.40	12202.08
12	12487.69	12384.36	12313.35	12246.72	12198.05
13	12509.47	12401.27	12315.83	12244.22	12200.12
14	12532.40	12414.48	12325.66	12243.14	12195.56
15	12555.76	12427.43	12338.67	12254.93	12202.93
16	12587.82	12451.87	12353.15	12266.33	12209.40
17	12609.62	12470.44	12369.63	12279.37	12219.70
18	12639.45	12496.85	12390.40	12293.48	12233.17
19	12670.33	12527.61	12415.33	12310.94	12257.53

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CANDELA TABULATION - (Cont.)

20	12706.65	12557.24	12441.82	12337.34	12273.95
21	12743.70	12590.71	12468.77	12364.32	12297.96
22	12771.40	12623.90	12494.15	12388.66	12324.62
23	12809.47	12653.88	12529.56	12417.41	12354.11
24	12840.00	12686.64	12561.12	12446.41	12384.21
25	12878.73	12723.46	12591.74	12475.82	12408.89
26	12905.34	12757.30	12623.02	12510.92	12440.56
27	12934.53	12785.68	12656.13	12540.51	12474.95
28	12949.78	12806.75	12678.82	12571.37	12506.05
29	12964.26	12828.95	12705.63	12589.63	12528.57
30	12968.97	12836.48	12721.66	12615.06	12550.39
31	12957.02	12846.79	12725.97	12624.39	12562.77
32	12940.90	12830.73	12720.99	12629.54	12569.50
33	12904.38	12816.92	12707.91	12618.81	12562.90
34	12856.78	12769.82	12676.18	12593.33	12538.91
35	12784.71	12713.70	12620.72	12551.61	12504.47
36	12682.36	12636.03	12549.08	12494.19	12443.37
37	12562.87	12527.19	12451.49	12402.52	12347.68
38	12403.01	12390.46	12320.11	12274.78	12234.71
39	12212.89	12212.58	12154.48	12123.29	12079.60
40	11978.73	12002.63	11950.14	11922.85	11879.02
41	11702.05	11742.87	11697.95	11684.68	11641.34
42	11377.39	11445.07	11393.05	11383.02	11341.31
43	10999.77	11073.43	11034.90	11021.33	10985.25
44	10563.96	10652.20	10610.44	10609.21	10555.32
45	10078.05	10174.24	10116.87	10121.30	10068.34
46	9521.42	9635.69	9565.47	9577.39	9515.59
47	8908.70	9032.88	8948.25	8952.86	8892.30
48	8252.46	8375.61	8286.35	8290.79	8215.94
49	7569.60	7678.49	7576.84	7576.94	7514.66
50	6847.10	6959.64	6846.43	6860.48	6790.40
51	6122.12	6222.72	6123.72	6140.13	6083.85
52	5416.53	5502.55	5423.85	5433.96	5371.68
53	4710.24	4787.96	4722.69	4744.19	4691.62
54	4036.51	4105.97	4044.37	4077.96	4021.65
55	3404.57	3453.10	3401.32	3431.55	3390.13
56	2810.36	2853.76	2789.72	2826.37	2779.86
57	2271.68	2382.20	2243.39	2342.38	2226.03
58	1798.99	1910.65	1757.17	1858.38	1740.64
59	1400.57	1441.32	1349.74	1377.97	1334.94
60	1071.53	1100.50	1026.37	1053.17	1015.31
61	887.97	840.66	857.21	810.13	851.37
62	706.28	654.07	689.60	648.48	692.05
63	524.59	537.44	521.99	546.40	532.74
64	455.02	465.02	458.10	480.90	468.34
65	413.24	418.52	413.70	432.73	421.60
66	384.06	384.99	381.17	395.40	385.63
67	360.16	358.64	356.28	367.25	359.21
68	340.04	336.69	335.63	344.01	336.59
69	322.51	318.41	318.03	324.79	317.40
70	306.19	302.02	301.01	306.73	300.27
71	290.44	286.41	285.33	290.79	284.99
72	274.73	271.31	269.47	275.27	270.00
73	258.59	256.32	253.65	259.60	255.22
74	242.58	239.91	238.15	243.63	239.91
75	225.98	223.49	222.34	226.19	224.20

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CANDELA TABULATION - (Cont.)

76	209.74	207.07	206.64	208.77	208.07
77	194.49	191.19	191.11	191.86	191.72
78	179.11	175.66	175.70	175.14	175.19
79	163.45	160.12	160.24	159.58	159.39
80	148.25	144.93	145.03	144.20	143.89
81	132.56	130.23	129.90	129.47	128.42
82	117.17	115.71	115.04	115.14	113.48
83	100.95	101.20	100.38	100.56	98.87
84	82.80	85.73	85.14	84.80	83.62
85	64.61	68.37	69.91	69.55	68.36
86	46.42	51.85	54.67	54.98	53.10
87	28.74	36.32	38.08	37.38	37.84
88	13.04	20.78	22.35	19.78	13.77
89	8.58	5.47	14.90	2.59	9.25
90	4.34	0.12	7.61	0.08	4.73
91	0.10	0.08	0.32	0.08	0.21
92	0.09	0.08	0.09	0.09	0.09
93	0.09	0.09	0.10	0.10	0.10
94	0.10	0.10	0.11	0.10	0.11
95	0.11	0.11	0.12	0.12	0.12
96	0.13	0.13	0.13	0.13	0.13
97	0.15	0.15	0.15	0.15	0.15
98	0.16	0.17	0.17	0.17	0.17
99	0.18	0.18	0.19	0.19	0.19
100	0.21	0.21	0.22	0.21	0.22
101	0.24	0.23	0.24	0.24	0.25
102	0.26	0.26	0.27	0.27	0.28
103	0.30	0.29	0.31	0.30	0.31
104	0.33	0.33	0.34	0.34	0.35
105	0.37	0.36	0.38	0.38	0.39
106	0.41	0.41	0.42	0.42	0.43
107	0.46	0.45	0.47	0.47	0.49
108	0.51	0.51	0.53	0.53	0.54
109	0.57	0.56	0.59	0.59	0.61
110	0.63	0.63	0.66	0.67	0.68
111	0.71	0.70	0.74	0.75	0.77
112	0.78	0.77	0.81	0.83	0.85
113	0.86	0.86	0.89	0.92	0.95
114	0.95	0.95	0.97	1.02	1.05
115	1.05	1.05	1.07	1.12	1.16
116	1.16	1.16	1.18	1.23	1.27
117	1.27	1.27	1.31	1.35	1.39
118	1.38	1.39	1.44	1.46	1.51
119	1.51	1.52	1.58	1.59	1.64
120	1.64	1.65	1.73	1.71	1.78
121	1.77	1.78	1.88	1.84	1.91
122	1.91	1.92	2.02	1.95	2.05
123	2.05	2.06	2.17	2.06	2.19
124	2.18	2.20	2.33	2.18	2.34
125	2.32	2.34	2.49	2.30	2.48
126	2.47	2.48	2.65	2.45	2.63
127	2.64	2.62	2.82	2.62	2.78
128	2.81	2.76	2.99	2.80	2.93
129	2.99	2.91	3.17	3.00	3.09
130	3.17	3.06	3.34	3.21	3.25
131	3.35	3.20	3.51	3.42	3.43

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

132	3.52	3.36	3.67	3.64	3.61
133	3.68	3.52	3.83	3.85	3.80
134	3.83	3.66	3.96	4.05	3.97
135	4.00	3.81	4.10	4.21	4.13
136	4.18	4.00	4.25	4.38	4.28
137	4.36	4.24	4.43	4.56	4.46
138	4.53	4.50	4.64	4.76	4.66
139	4.69	4.71	4.85	4.97	4.84
140	4.89	4.87	5.06	5.15	5.02
141	5.10	5.02	5.27	5.34	5.23
142	5.31	5.16	5.47	5.53	5.41
143	5.49	5.31	5.67	5.68	5.59
144	5.70	5.49	5.85	5.83	5.75
145	5.91	5.70	5.97	5.98	5.95
146	6.13	5.89	6.07	6.13	6.11
147	6.31	6.08	6.16	6.27	6.24
148	6.48	6.26	6.23	6.42	6.33
149	6.68	6.42	6.31	6.55	6.40
150	6.89	6.56	6.39	6.67	6.47
151	7.11	6.71	6.50	6.79	6.58
152	7.34	6.85	6.64	6.90	6.69
153	7.55	6.95	6.80	7.04	6.81
154	7.71	7.06	6.96	7.17	6.88
155	7.86	7.17	7.11	7.28	6.91
156	8.00	7.29	7.19	7.36	6.93
157	8.10	7.42	7.25	7.40	6.98
158	8.16	7.56	7.33	7.42	7.01
159	8.19	7.71	7.42	7.45	7.07
160	8.21	7.85	7.52	7.46	7.13
161	8.22	7.96	7.63	7.49	7.17
162	8.26	8.07	7.74	7.57	7.24
163	8.39	8.21	7.86	7.72	7.41
164	8.53	8.39	8.01	7.93	7.63
165	8.69	8.58	8.21	8.15	7.90
166	8.88	8.80	8.44	8.37	8.15
167	9.04	9.02	8.62	8.55	8.31
168	9.22	9.14	8.71	8.62	8.45
169	9.34	9.28	8.71	8.68	8.61
170	9.36	9.34	8.69	8.73	8.70
171	9.35	9.34	8.72	8.79	8.73
172	9.44	9.45	8.91	8.93	8.82
173	9.66	9.67	9.14	9.13	8.96
174	10.09	10.09	9.61	9.50	9.24
175	10.51	10.52	10.05	9.88	9.53
176	10.80	10.77	10.34	10.22	9.79
177	11.03	11.00	10.57	10.50	10.05
178	11.15	11.13	10.75	10.67	10.25
179	11.26	11.24	10.91	10.80	10.55
180	10.84	10.84	10.84	10.84	10.84

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	4798.48	16.00	16.00
0-30	10819.89	36.20	36.20
0-40	18752.65	62.70	62.70
0-60	29098.54	97.20	97.20
0-80	29836.79	99.70	99.70
0-90	29907.69	99.90	99.90
10-90	28715.45	95.90	95.90
20-40	13954.17	46.60	46.60
20-50	21286.47	71.10	71.10
40-70	10841.38	36.20	36.20
60-80	738.26	2.50	2.50
70-80	242.77	0.80	0.80
80-90	70.89	0.20	0.20
90-110	1.20	0.00	0.00
90-120	2.99	0.00	0.00
90-130	5.99	0.00	0.00
90-150	14.65	0.00	0.00
90-180	22.75	0.10	0.10
110-180	21.55	0.10	0.10
0-180	29930.44	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1192.23
10-20	3606.26
20-30	6021.41
30-40	7932.76
40-50	7332.3
50-60	3013.58
60-70	495.49
70-80	242.77
80-90	70.89
90-100	0.33
100-110	0.87
110-120	1.79
120-130	3.00
130-140	4.10
140-150	4.56
150-160	4.20
160-170	2.88
170-180	1.01

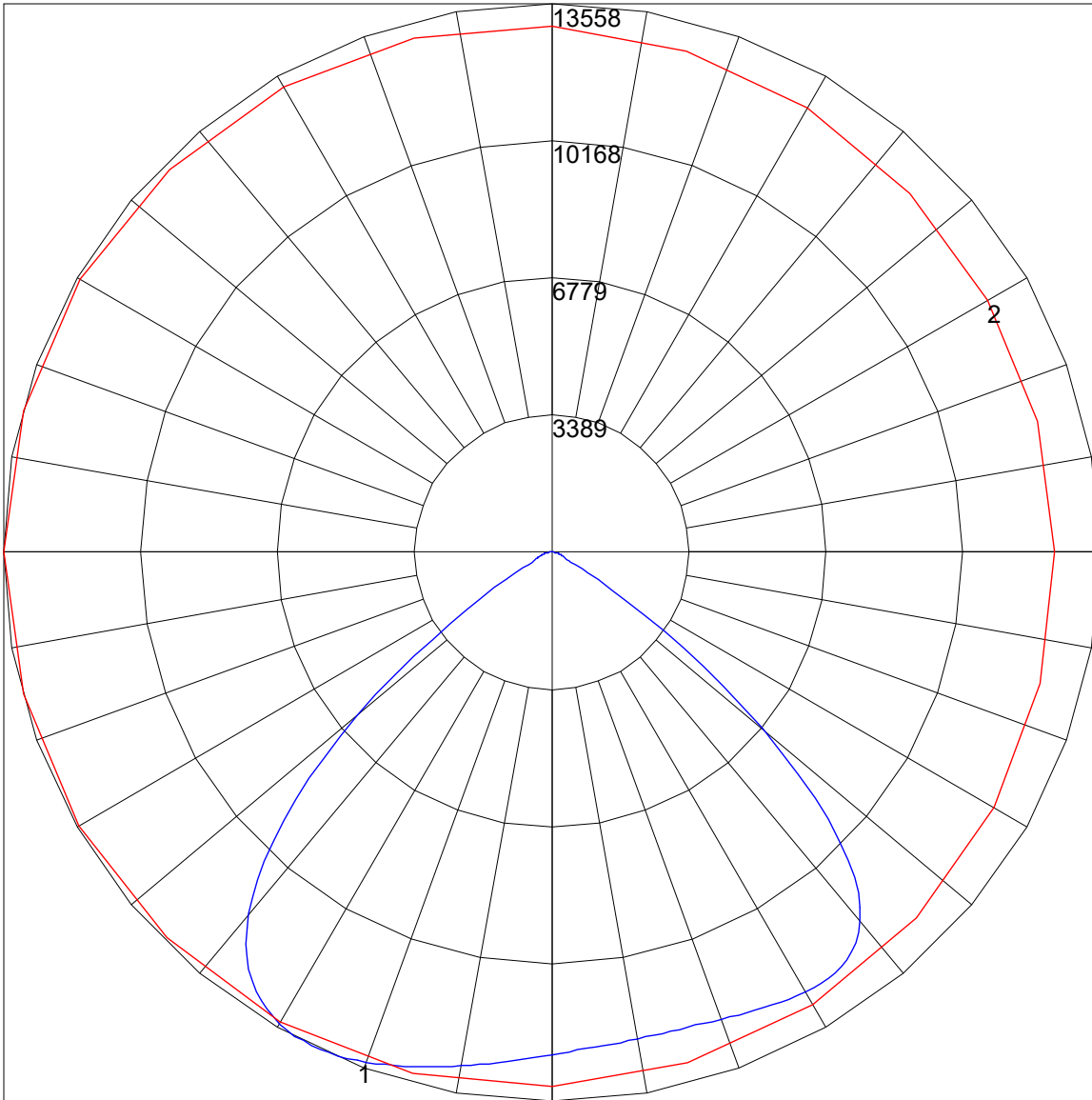
IES INDOOR REPORT
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	0
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90	0
2	104	98	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79	0
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70	0
4	89	79	72	67	87	78	71	66	76	70	65	74	69	65	72	67	64	62	0
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	61	57	55	0
6	77	65	58	52	75	65	57	52	63	56	51	61	55	51	60	55	51	49	0
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	45	44	0
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	50	45	41	39	0
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35	0
10	59	46	39	34	57	46	39	34	45	39	34	44	38	34	43	38	34	32	0

POLAR GRAPH



Maximum Candela = 13557.99 Located At Horizontal Angle = 180, Vertical Angle = 26
1 - Vertical Plane Through Horizontal Angles (180 - 0) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (26) (Through Max. Cd.)