



IES INDOOR REPORT
PHOTOMETRIC FILENAME : HBRMSR-LED200DMV40.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 09:39:35
 [NEARFIELD]
 [LAMPPOSITION] 0,0
 [OTHER] EVERFINE GO-R5000_V2 SYSTEM
 [MANUFAC] Mobern Lighting Co.
 [LUMCAT] HBRMSR-LED200DMV40
 [MORE] MHB04
 [LUMINAIRE] LED
 [BALLAST] 120-277Vac,50/60Hz
 [OTHER]

[OTHER]	Gamma(deg)	Fz(lm)	Ft(lm)	%Lum	%Lamp
[OTHER]	0- 10	1179.15	1179.15	3.95	3.95
[OTHER]	10- 20	3531.83	4710.98	15.78	15.78
[OTHER]	20- 30	5837.36	10548.34	35.33	35.33
[OTHER]	30- 40	7721.51	18269.85	61.19	61.19
[OTHER]	40- 50	7449.17	25719.02	86.14	86.14
[OTHER]	50- 60	3420.28	29139.29	97.60	97.60
[OTHER]	60- 70	451.61	29590.91	99.11	99.11
[OTHER]	70- 80	186.33	29777.24	99.74	99.74
[OTHER]	80- 90	56.25	29833.49	99.92	99.92
[OTHER]	90-100	0.34	29833.83	99.93	99.93
[OTHER]	100-110	0.91	29834.74	99.93	99.93
[OTHER]	110-120	1.82	29836.56	99.93	99.93
[OTHER]	120-130	2.98	29839.54	99.94	99.94
[OTHER]	130-140	4.08	29843.63	99.96	99.96
[OTHER]	140-150	4.55	29848.18	99.97	99.97
[OTHER]	150-160	4.15	29852.33	99.99	99.99
[OTHER]	160-170	2.82	29855.15	100.00	100.00
[OTHER]	170-180	0.99	29856.14	100.00	100.00
[OTHER]					

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CHARACTERISTICS

Lumens Per Lamp	29856 (1 lamp)
Total Lamp Lumens	29856
Luminaire Lumens	29856
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	149
Total Luminaire Watts	200.314
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.52
Spacing Criterion (90-270)	1.52
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	144792	144140	143497
55	67105	65441	65199
65	7901	8261	8152
75	7018	6919	6963
85	6691	5759	4529

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CANDELA TABULATION

	0	15	30	45	60	75	90	105	120	135
0	12322.67	12322.67	12322.67	12322.67	12322.67	12322.67	12322.67	12322.67	12322.67	12322.67
1	12309.86	12320.18	12314.98	12318.70	12313.84	12311.37	12321.27	12317.36	12334.36	12329.89
2	12304.37	12305.38	12307.58	12308.20	12308.25	12306.66	12318.67	12324.01	12333.74	12337.77
3	12293.59	12298.06	12296.93	12300.64	12302.42	12305.25	12327.75	12328.30	12340.95	12353.71
4	12291.14	12288.94	12296.79	12298.59	12299.91	12301.50	12324.43	12334.72	12350.91	12357.16
5	12284.21	12280.18	12289.97	12294.06	12295.51	12301.77	12328.18	12342.31	12363.00	12373.14
6	12275.09	12276.75	12280.80	12291.98	12298.13	12297.36	12328.73	12349.27	12369.92	12385.66
7	12276.91	12271.97	12275.73	12288.09	12299.51	12299.52	12338.73	12360.71	12377.25	12398.54
8	12269.79	12272.59	12276.42	12281.34	12295.14	12306.08	12345.39	12371.07	12394.33	12414.26
9	12268.70	12270.63	12271.69	12280.90	12297.71	12310.71	12347.83	12377.56	12407.79	12431.91
10	12269.36	12272.18	12271.25	12277.62	12304.98	12319.89	12352.06	12388.78	12424.33	12444.87
11	12267.01	12268.46	12273.25	12279.80	12300.70	12324.31	12362.62	12401.68	12435.36	12462.35
12	12268.99	12266.11	12269.60	12287.91	12310.09	12328.34	12372.27	12412.21	12447.40	12479.69
13	12270.05	12275.09	12272.52	12288.26	12312.94	12338.21	12380.21	12431.26	12464.11	12500.55
14	12273.39	12276.22	12276.76	12291.23	12317.04	12345.42	12398.51	12444.08	12473.60	12524.29
15	12279.92	12284.82	12284.60	12300.69	12326.78	12353.79	12407.31	12459.95	12503.47	12545.19
16	12284.85	12290.40	12287.45	12301.87	12330.23	12366.63	12423.28	12476.65	12525.21	12567.50
17	12292.95	12299.01	12297.01	12309.77	12344.20	12384.13	12440.84	12492.64	12545.54	12590.02
18	12303.16	12306.49	12309.10	12316.61	12356.38	12396.71	12458.63	12511.24	12566.17	12612.55
19	12306.52	12318.69	12317.83	12329.89	12367.20	12409.96	12474.12	12529.36	12587.30	12636.27
20	12322.55	12328.61	12330.26	12342.27	12384.07	12424.09	12484.64	12546.79	12608.52	12660.92
21	12335.55	12337.60	12342.69	12356.07	12393.53	12438.77	12507.92	12567.53	12627.81	12679.01
22	12344.99	12347.76	12349.11	12367.58	12412.97	12456.00	12527.95	12590.25	12647.87	12702.17
23	12365.78	12358.49	12365.80	12381.17	12428.59	12470.69	12547.02	12606.87	12665.82	12718.71
24	12373.36	12368.81	12377.96	12396.66	12444.01	12492.86	12557.89	12626.35	12680.03	12743.44
25	12391.34	12378.96	12389.49	12413.86	12454.13	12503.12	12569.26	12635.92	12695.32	12755.88
26	12400.43	12393.38	12400.67	12425.67	12460.78	12506.70	12578.88	12646.12	12707.16	12768.90
27	12395.73	12400.88	12408.07	12435.59	12468.02	12514.18	12584.89	12654.77	12710.52	12776.29
28	12402.79	12407.62	12414.14	12434.91	12471.75	12518.82	12583.89	12654.52	12713.93	12776.30
29	12398.73	12407.52	12412.42	12434.43	12468.44	12513.30	12583.86	12647.65	12708.92	12763.84
30	12397.70	12397.39	12406.23	12426.23	12447.58	12499.79	12564.29	12636.17	12691.20	12751.57
31	12383.93	12388.86	12391.03	12413.17	12432.43	12479.04	12546.54	12609.21	12667.01	12721.76
32	12365.81	12367.03	12369.97	12386.60	12401.24	12450.13	12518.17	12573.09	12632.78	12680.63
33	12331.81	12337.37	12335.00	12343.58	12362.18	12400.32	12467.56	12524.44	12578.27	12628.69
34	12288.37	12289.78	12286.67	12298.50	12309.60	12340.90	12404.23	12463.29	12517.26	12557.69
35	12225.20	12229.10	12220.34	12231.92	12237.93	12272.19	12328.36	12379.06	12432.83	12466.14
36	12147.71	12151.54	12135.34	12151.01	12151.18	12176.14	12222.37	12276.05	12324.30	12357.09
37	12041.87	12047.00	12035.80	12041.16	12027.25	12051.00	12104.13	12145.37	12182.60	12213.91
38	11914.63	11914.11	11903.29	11904.77	11888.49	11905.15	11955.04	11981.54	12021.83	12043.60
39	11754.46	11753.23	11732.29	11730.89	11712.68	11724.08	11764.96	11784.87	11823.42	11838.57
40	11554.72	11557.35	11533.18	11531.45	11502.26	11509.04	11549.76	11555.48	11585.08	11600.73
41	11322.64	11318.12	11287.94	11284.99	11248.22	11253.41	11290.38	11288.06	11308.71	11321.91
42	11030.93	11037.26	11003.22	10992.26	10950.47	10949.78	10979.12	10967.73	10996.54	10993.04
43	10696.20	10707.97	10665.83	10653.91	10605.70	10600.64	10629.84	10602.09	10631.03	10625.88
44	10298.28	10322.93	10277.57	10254.70	10202.76	10202.72	10220.41	10185.91	10214.47	10201.48
45	9854.64	9876.86	9830.75	9810.25	9756.00	9753.11	9766.50	9714.87	9740.29	9731.02
46	9350.65	9370.95	9326.40	9302.36	9244.71	9247.03	9260.13	9200.11	9227.29	9216.28
47	8786.09	8818.17	8773.86	8743.14	8694.96	8696.44	8707.50	8637.23	8659.09	8640.18
48	8172.12	8222.14	8162.03	8137.97	8084.58	8105.36	8107.28	8025.04	8048.43	8041.54
49	7528.75	7574.91	7525.37	7489.19	7437.54	7467.61	7482.09	7394.67	7416.03	7407.47
50	6872.85	6916.88	6851.35	6824.76	6765.86	6808.49	6814.19	6737.93	6763.67	6750.31
51	6210.42	6246.23	6191.61	6143.79	6098.18	6125.75	6168.95	6075.42	6106.55	6094.19
52	5561.92	5585.70	5514.68	5485.46	5443.49	5463.97	5487.03	5415.24	5453.74	5439.02
53	4925.82	4933.58	4862.24	4837.69	4802.00	4805.53	4842.71	4780.88	4820.50	4810.44

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CANDELA TABULATION - (Cont.)

54	4301.17	4305.27	4230.59	4220.92	4168.57	4174.48	4212.36	4156.53	4193.57	4189.95
55	3704.73	3701.93	3619.20	3612.89	3553.14	3559.99	3599.51	3534.62	3585.01	3599.80
56	3114.46	3096.09	3016.93	3017.02	2968.01	2976.31	3012.32	2954.94	3002.26	3030.42
57	2521.07	2574.61	2457.19	2509.13	2408.03	2484.51	2520.11	2414.63	2467.52	2499.45
58	1980.41	2053.13	1941.50	2001.25	1892.19	1992.72	2027.90	1919.12	2008.44	2006.38
59	1498.93	1532.09	1481.99	1495.86	1446.99	1502.06	1536.12	1492.71	1550.37	1562.17
60	1102.60	1140.90	1112.04	1133.79	1098.71	1139.69	1170.97	1138.03	1179.05	1188.24
61	883.46	834.68	894.29	849.26	892.37	857.57	878.07	864.66	880.05	879.51
62	665.60	612.51	678.91	635.99	688.65	647.55	659.74	670.97	651.99	678.99
63	447.74	466.06	463.53	491.48	484.92	497.30	500.01	477.56	487.60	481.07
64	366.54	375.42	374.88	395.56	389.09	397.20	394.60	378.36	382.48	375.17
65	321.38	322.31	321.63	336.03	329.97	332.51	331.59	323.92	322.84	314.49
66	292.89	290.90	289.96	300.04	294.86	293.80	295.70	292.13	288.15	281.93
67	272.43	269.95	269.07	276.14	272.36	269.78	271.40	270.62	267.28	263.23
68	256.70	253.72	253.88	258.26	254.93	252.84	253.79	254.62	251.88	249.07
69	243.15	240.62	241.92	244.12	240.77	239.59	240.00	241.03	239.47	237.76
70	231.11	229.27	231.09	231.55	228.63	228.75	228.43	229.05	227.91	227.08
71	220.52	218.82	220.90	219.87	218.40	219.12	218.19	218.15	216.83	216.98
72	210.20	208.36	209.77	208.20	208.87	209.49	207.95	207.64	205.74	206.39
73	198.87	197.90	198.16	196.53	197.55	199.86	197.69	196.63	194.65	195.96
74	187.07	186.85	186.57	185.13	185.66	189.44	185.94	184.74	183.57	184.44
75	174.82	174.99	173.59	172.36	172.21	175.65	173.47	171.77	171.58	172.23
76	162.02	161.98	159.88	159.12	158.64	160.87	160.06	158.74	160.15	159.71
77	149.50	149.39	147.32	146.39	145.77	145.96	146.37	145.07	147.44	147.39
78	137.07	136.98	134.83	134.00	132.83	132.36	132.55	131.42	135.17	134.79
79	125.42	124.95	122.93	122.28	120.51	119.54	119.09	118.85	122.56	123.01
80	113.75	113.24	111.06	110.11	107.82	106.97	106.29	106.09	109.84	111.28
81	102.46	101.45	99.42	98.60	95.16	94.37	94.07	93.80	97.51	99.83
82	91.33	90.18	87.84	86.94	81.80	81.90	81.67	79.54	85.31	87.13
83	79.60	79.13	76.26	75.30	68.41	68.64	67.49	65.22	72.48	74.42
84	67.87	67.50	64.69	61.60	55.03	53.04	52.33	50.90	57.22	61.71
85	56.13	56.04	52.70	48.31	39.41	37.83	37.99	36.71	41.80	47.99
86	44.03	44.85	39.68	34.17	25.54	25.84	25.89	22.03	29.02	33.18
87	31.81	30.15	25.37	20.03	11.97	13.86	13.79	8.68	16.24	17.65
88	14.13	15.45	7.24	6.09	7.83	2.04	1.94	4.38	3.64	11.73
89	9.45	0.83	3.57	0.13	3.99	0.13	0.28	0.27	0.30	6.01
90	4.82	0.07	0.16	0.07	0.15	0.06	0.20	0.21	0.21	0.29
91	0.19	0.07	0.08	0.07	0.07	0.07	0.22	0.23	0.22	0.22
92	0.08	0.08	0.08	0.08	0.08	0.08	0.25	0.25	0.25	0.25
93	0.09	0.09	0.09	0.09	0.09	0.08	0.28	0.28	0.28	0.28
94	0.10	0.10	0.10	0.10	0.10	0.10	0.32	0.32	0.32	0.31
95	0.12	0.11	0.12	0.11	0.12	0.11	0.37	0.37	0.36	0.36
96	0.13	0.13	0.13	0.13	0.13	0.13	0.43	0.43	0.42	0.43
97	0.15	0.15	0.16	0.15	0.15	0.15	0.49	0.50	0.50	0.50
98	0.17	0.17	0.18	0.18	0.18	0.17	0.57	0.58	0.57	0.57
99	0.20	0.20	0.20	0.20	0.20	0.19	0.66	0.66	0.65	0.66
100	0.22	0.22	0.23	0.23	0.23	0.22	0.75	0.76	0.75	0.75
101	0.26	0.26	0.27	0.26	0.27	0.26	0.86	0.87	0.85	0.85
102	0.29	0.29	0.30	0.30	0.30	0.29	0.97	0.98	0.97	0.96
103	0.33	0.33	0.34	0.34	0.34	0.33	1.10	1.11	1.09	1.09
104	0.37	0.37	0.38	0.38	0.38	0.37	1.24	1.25	1.23	1.22
105	0.41	0.42	0.43	0.42	0.43	0.42	1.37	1.37	1.35	1.35
106	0.47	0.47	0.48	0.48	0.48	0.47	1.48	1.49	1.47	1.46
107	0.52	0.52	0.54	0.53	0.54	0.52	1.59	1.59	1.58	1.58
108	0.59	0.59	0.60	0.60	0.60	0.58	1.69	1.70	1.69	1.69
109	0.66	0.66	0.67	0.67	0.67	0.64	1.79	1.80	1.80	1.81

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CANDELA TABULATION - (Cont.)

110	0.74	0.74	0.75	0.75	0.75	0.71	1.89	1.90	1.91	1.92
111	0.82	0.82	0.84	0.83	0.82	0.79	1.99	2.00	2.02	2.04
112	0.92	0.92	0.93	0.91	0.91	0.87	2.08	2.10	2.13	2.17
113	1.01	1.01	1.03	1.01	0.99	0.96	2.18	2.21	2.25	2.29
114	1.12	1.12	1.13	1.11	1.09	1.05	2.28	2.32	2.36	2.41
115	1.23	1.23	1.24	1.21	1.19	1.15	2.40	2.44	2.48	2.54
116	1.34	1.34	1.35	1.32	1.29	1.26	2.51	2.56	2.60	2.68
117	1.46	1.46	1.48	1.44	1.41	1.36	2.63	2.72	2.77	2.83
118	1.58	1.59	1.60	1.56	1.54	1.49	2.89	2.92	2.95	3.00
119	1.70	1.72	1.73	1.69	1.67	1.61	3.06	3.08	3.11	3.17
120	1.84	1.86	1.87	1.82	1.80	1.73	3.21	3.25	3.27	3.34
121	1.97	2.00	2.00	1.95	1.94	1.86	3.36	3.41	3.42	3.51
122	2.12	2.14	2.14	2.09	2.08	1.99	3.51	3.57	3.58	3.69
123	2.25	2.28	2.27	2.22	2.22	2.12	3.68	3.75	3.75	3.88
124	2.40	2.42	2.41	2.36	2.36	2.26	3.87	3.94	3.93	4.07
125	2.54	2.56	2.54	2.49	2.51	2.40	4.06	4.14	4.13	4.28
126	2.68	2.70	2.68	2.63	2.66	2.53	4.26	4.33	4.34	4.49
127	2.83	2.85	2.82	2.77	2.81	2.68	4.47	4.54	4.57	4.71
128	2.98	2.99	2.97	2.91	2.97	2.85	4.69	4.78	4.82	4.94
129	3.13	3.14	3.14	3.05	3.14	3.04	4.92	5.04	5.08	5.17
130	3.29	3.30	3.31	3.21	3.31	3.23	5.16	5.29	5.35	5.43
131	3.47	3.47	3.47	3.37	3.46	3.41	5.43	5.53	5.61	5.70
132	3.64	3.66	3.63	3.53	3.62	3.61	5.67	5.77	5.87	5.97
133	3.83	3.85	3.80	3.71	3.79	3.82	5.88	6.01	6.12	6.24
134	4.01	4.03	3.96	3.90	3.94	4.01	6.07	6.24	6.35	6.49
135	4.15	4.19	4.12	4.09	4.08	4.19	6.26	6.45	6.56	6.73
136	4.30	4.34	4.28	4.29	4.24	4.38	6.47	6.65	6.77	6.94
137	4.48	4.49	4.44	4.50	4.41	4.59	6.66	6.86	6.97	7.17
138	4.67	4.66	4.60	4.71	4.59	4.78	6.84	7.07	7.18	7.41
139	4.85	4.83	4.79	4.90	4.77	4.97	7.06	7.26	7.37	7.61
140	5.03	5.01	4.98	5.06	4.94	5.15	7.26	7.47	7.56	7.83
141	5.24	5.19	5.18	5.22	5.13	5.32	7.46	7.69	7.79	8.06
142	5.42	5.39	5.39	5.39	5.32	5.50	7.68	7.93	8.03	8.28
143	5.60	5.59	5.63	5.55	5.51	5.67	7.92	8.18	8.28	8.49
144	5.78	5.81	5.83	5.71	5.70	5.85	8.14	8.46	8.51	8.71
145	5.96	6.00	5.98	5.89	5.87	6.02	8.43	8.72	8.74	8.93
146	6.14	6.19	6.11	6.08	6.03	6.19	8.69	8.98	8.96	9.18
147	6.27	6.33	6.22	6.26	6.20	6.35	8.94	9.20	9.16	9.43
148	6.34	6.43	6.33	6.42	6.35	6.49	9.18	9.40	9.36	9.67
149	6.39	6.51	6.44	6.58	6.50	6.63	9.39	9.59	9.57	9.92
150	6.44	6.59	6.58	6.74	6.70	6.76	9.61	9.77	9.81	10.15
151	6.52	6.69	6.73	6.90	6.91	6.88	9.81	9.95	10.07	10.35
152	6.61	6.84	6.90	7.07	7.16	7.01	10.01	10.11	10.33	10.53
153	6.72	6.97	7.05	7.21	7.39	7.12	10.18	10.26	10.63	10.71
154	6.80	7.09	7.19	7.33	7.60	7.23	10.35	10.44	10.90	10.89
155	6.82	7.21	7.33	7.46	7.79	7.41	10.54	10.67	11.14	11.07
156	6.82	7.31	7.44	7.58	7.92	7.61	10.76	10.94	11.34	11.25
157	6.85	7.42	7.57	7.74	8.02	7.80	11.03	11.19	11.50	11.44
158	6.89	7.53	7.68	7.89	8.11	7.97	11.28	11.42	11.65	11.64
159	6.93	7.63	7.78	8.04	8.16	8.06	11.52	11.57	11.78	11.83
160	6.98	7.70	7.89	8.17	8.18	8.10	11.66	11.68	11.87	11.99
161	7.03	7.76	7.99	8.27	8.21	8.14	11.71	11.74	11.92	12.10
162	7.07	7.82	8.07	8.33	8.22	8.18	11.70	11.75	11.93	12.14
163	7.22	7.93	8.19	8.42	8.27	8.25	11.68	11.74	11.92	12.17
164	7.44	8.06	8.35	8.50	8.34	8.36	11.67	11.77	11.95	12.21
165	7.70	8.21	8.51	8.61	8.47	8.49	11.70	11.84	12.01	12.27

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CANDELA TABULATION - (Cont.)

166	7.96	8.41	8.70	8.76	8.66	8.67	11.66	11.91	12.10	12.33
167	8.12	8.58	8.81	8.84	8.79	8.82	11.69	11.94	12.14	12.34
168	8.25	8.69	8.90	8.88	8.88	8.94	11.67	11.93	12.12	12.27
169	8.39	8.70	8.93	8.91	8.93	9.01	11.62	11.84	12.03	12.12
170	8.48	8.56	8.85	8.88	8.90	8.99	11.57	11.74	11.91	12.01
171	8.49	8.42	8.80	8.84	8.86	8.95	11.55	11.71	11.87	11.94
172	8.56	8.53	8.90	8.90	8.94	9.03	11.56	11.72	11.86	11.87
173	8.69	8.74	9.10	9.08	9.11	9.23	11.48	11.66	11.79	11.74
174	8.95	9.06	9.38	9.44	9.46	9.61	11.46	11.65	11.73	11.66
175	9.23	9.44	9.77	9.82	9.87	10.03	11.43	11.61	11.69	11.60
176	9.47	9.66	10.03	10.00	10.14	10.31	11.28	11.50	11.56	11.47
177	9.73	9.82	10.19	10.14	10.29	10.45	11.16	11.38	11.46	11.38
178	9.91	9.89	10.25	10.24	10.30	10.50	10.93	11.17	11.23	11.17
179	10.21	9.98	10.19	10.32	10.34	10.55	10.83	11.08	11.13	11.08
180	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50

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	12322.67	12322.67	12322.67	12322.67	12322.67	12322.67	12322.67	12322.67	12322.67	12322.67
1	12338.06	12335.52	12333.66	12337.68	12334.86	12336.60	12327.37	12324.25	12329.39	12317.99
2	12345.22	12347.18	12349.35	12354.65	12343.13	12344.76	12337.34	12327.29	12329.21	12321.11
3	12353.74	12362.88	12362.97	12369.84	12364.55	12360.05	12347.91	12344.84	12336.32	12324.52
4	12367.49	12375.43	12373.33	12386.80	12381.76	12374.12	12361.72	12352.41	12342.95	12325.38
5	12387.58	12387.18	12393.72	12402.59	12397.72	12388.58	12368.02	12359.40	12348.96	12333.84
6	12403.05	12399.00	12413.68	12422.19	12413.29	12410.20	12386.75	12369.84	12360.32	12339.30
7	12416.04	12412.22	12432.47	12441.12	12431.55	12424.48	12403.26	12385.76	12364.97	12352.76
8	12438.78	12437.49	12455.47	12459.14	12454.76	12442.45	12420.05	12393.53	12379.89	12352.48
9	12450.48	12457.39	12472.99	12480.49	12476.86	12460.98	12438.87	12404.35	12390.78	12365.97
10	12469.78	12481.11	12496.97	12504.10	12496.35	12481.40	12452.73	12423.96	12399.76	12381.00
11	12491.48	12498.74	12520.30	12527.90	12518.33	12497.47	12475.99	12438.46	12414.87	12386.31
12	12519.32	12523.78	12550.94	12551.13	12545.52	12521.05	12496.81	12460.35	12431.29	12398.79
13	12536.77	12544.07	12576.56	12572.63	12564.11	12544.08	12513.14	12480.36	12449.04	12411.72
14	12554.19	12569.44	12598.66	12603.30	12589.54	12563.30	12535.17	12492.90	12464.65	12429.54
15	12575.66	12596.02	12620.83	12627.44	12616.50	12588.32	12553.73	12512.14	12477.17	12444.68
16	12603.33	12619.75	12649.98	12657.95	12638.38	12612.02	12579.63	12536.96	12493.63	12459.31
17	12629.93	12651.06	12670.20	12686.86	12665.55	12636.46	12603.39	12551.26	12518.87	12476.48
18	12657.85	12675.54	12700.32	12714.23	12685.35	12660.96	12623.80	12574.50	12536.49	12489.32
19	12675.74	12702.70	12724.65	12737.37	12714.22	12689.94	12647.51	12600.60	12558.90	12509.59
20	12705.75	12729.43	12748.63	12762.28	12738.07	12708.38	12677.91	12624.53	12577.67	12523.42
21	12718.53	12755.81	12774.16	12783.99	12768.39	12731.67	12699.65	12645.85	12597.27	12543.96
22	12749.95	12784.12	12803.41	12809.98	12785.90	12752.66	12722.42	12670.16	12620.27	12563.40
23	12774.70	12801.81	12825.05	12832.46	12810.70	12780.51	12739.94	12681.07	12637.48	12578.79
24	12790.61	12822.35	12847.15	12850.34	12830.98	12801.79	12756.04	12701.73	12659.08	12600.90
25	12808.75	12834.02	12860.28	12868.98	12850.55	12820.03	12777.81	12720.08	12670.35	12616.01
26	12819.91	12848.27	12873.05	12882.05	12865.03	12834.46	12790.64	12731.43	12685.26	12624.60
27	12826.95	12856.73	12877.61	12892.60	12870.85	12843.60	12795.47	12739.58	12682.32	12632.66
28	12823.51	12853.04	12880.62	12891.62	12872.01	12845.25	12797.06	12736.46	12699.85	12640.64
29	12813.63	12847.13	12879.86	12884.53	12864.59	12834.48	12792.13	12735.66	12688.87	12634.53
30	12795.75	12827.22	12859.77	12866.87	12853.05	12816.74	12784.24	12728.57	12676.31	12631.35
31	12772.01	12803.13	12835.63	12838.85	12831.16	12789.48	12762.81	12702.64	12656.61	12615.26
32	12732.76	12766.33	12790.11	12803.29	12789.07	12755.21	12725.20	12673.86	12630.52	12587.01
33	12679.31	12713.35	12738.26	12751.81	12741.00	12705.99	12681.18	12632.58	12592.34	12546.12
34	12605.83	12637.22	12669.34	12681.45	12673.42	12639.47	12619.81	12572.17	12528.33	12491.58
35	12509.51	12543.08	12576.38	12592.57	12587.11	12550.75	12544.89	12499.17	12457.84	12428.17
36	12398.27	12425.32	12465.05	12480.83	12476.21	12449.39	12444.15	12401.03	12363.07	12343.66

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CANDELA TABULATION - (Cont.)

37	12257.44	12283.90	12326.50	12342.25	12350.16	12321.04	12317.94	12275.51	12244.99	12227.87
38	12082.17	12107.54	12159.46	12167.17	12187.30	12165.72	12167.96	12122.70	12103.61	12090.04
39	11883.23	11906.92	11958.07	11972.67	11996.72	11973.41	11981.59	11949.27	11923.55	11924.02
40	11638.08	11658.92	11721.09	11744.74	11767.93	11746.97	11758.09	11731.94	11722.65	11728.08
41	11355.68	11384.52	11444.32	11475.60	11503.19	11490.33	11513.87	11484.48	11472.51	11489.46
42	11033.34	11056.41	11128.31	11162.16	11202.18	11183.72	11216.50	11194.92	11184.99	11207.88
43	10664.97	10686.57	10767.21	10807.27	10849.53	10832.51	10871.61	10866.08	10854.48	10883.53
44	10229.23	10258.42	10349.36	10404.96	10463.82	10437.68	10487.56	10477.35	10474.01	10507.85
45	9760.88	9790.31	9888.79	9952.20	10010.05	9988.10	10048.05	10050.67	10049.14	10085.05
46	9242.55	9271.00	9382.70	9451.73	9528.98	9509.40	9575.53	9577.79	9565.37	9598.89
47	8673.85	8690.53	8821.24	8909.65	8984.19	8967.56	9039.45	9044.15	9036.88	9065.06
48	8063.67	8077.62	8224.29	8317.90	8409.92	8391.72	8475.20	8479.87	8463.44	8481.64
49	7425.76	7442.96	7594.53	7693.07	7794.93	7783.39	7868.28	7875.67	7846.30	7866.61
50	6778.24	6804.82	6948.28	7058.71	7162.01	7139.92	7232.74	7220.47	7206.85	7222.39
51	6121.55	6151.27	6301.67	6393.67	6505.90	6497.66	6582.67	6586.08	6542.52	6564.64
52	5474.63	5506.66	5649.62	5736.73	5847.09	5841.60	5930.36	5912.03	5884.79	5912.64
53	4841.02	4880.13	5017.97	5094.85	5204.10	5207.13	5288.86	5274.82	5229.85	5257.70
54	4224.38	4271.37	4396.19	4458.03	4560.29	4568.84	4653.02	4634.64	4577.63	4620.83
55	3642.36	3678.63	3804.69	3843.76	3948.86	3961.43	4025.70	4007.04	3961.27	4002.62
56	3075.92	3114.90	3219.58	3259.02	3350.15	3358.64	3413.00	3402.93	3350.35	3381.31
57	2548.99	2576.82	2664.23	2691.57	2773.08	2775.98	2824.04	2805.81	2760.69	2784.66
58	2112.68	2070.87	2203.10	2167.98	2289.68	2235.30	2334.71	2245.14	2207.73	2295.13
59	1676.37	1618.98	1741.98	1684.28	1806.27	1740.68	1845.37	1753.33	1717.14	1805.61
60	1243.62	1226.13	1281.29	1267.81	1322.98	1316.35	1360.25	1315.34	1284.73	1319.52
61	923.63	905.89	940.82	929.85	964.99	959.12	996.23	954.44	924.47	954.07
62	674.60	734.00	685.79	747.29	694.91	765.67	709.13	763.55	738.44	676.77
63	500.82	562.34	506.47	567.53	507.93	576.61	512.37	573.40	558.09	492.13
64	389.76	390.68	398.61	387.78	395.74	387.54	397.06	383.24	377.74	388.14
65	326.54	333.60	341.03	332.28	335.42	329.73	336.92	325.25	325.88	334.37
66	292.17	301.92	308.30	301.44	302.24	300.42	305.12	296.84	297.46	304.41
67	272.23	280.88	287.80	281.35	281.30	281.20	284.81	277.82	278.03	284.46
68	257.65	266.05	271.81	266.83	265.89	265.83	269.61	263.40	262.95	268.54
69	246.69	252.95	258.96	254.75	253.17	252.59	255.95	250.50	249.70	254.52
70	236.32	241.44	246.54	244.26	241.73	240.61	244.11	238.60	237.93	242.11
71	226.38	230.79	235.54	233.60	231.06	229.69	232.71	227.69	226.92	230.72
72	214.38	219.03	222.60	222.54	219.72	218.67	220.54	217.24	216.35	218.82
73	202.38	206.45	209.67	211.12	208.39	206.78	208.37	206.40	205.95	206.92
74	190.35	193.33	196.73	198.42	197.04	194.28	196.19	195.59	194.39	195.01
75	177.47	180.14	183.05	184.89	184.14	181.66	183.35	183.33	182.19	182.50
76	164.23	166.68	169.12	171.04	170.84	168.81	170.64	170.71	169.24	169.89
77	151.67	153.65	155.59	157.39	157.62	156.23	157.51	157.59	156.22	157.60
78	138.97	140.33	142.23	144.22	144.48	143.30	144.37	144.28	142.92	145.09
79	126.79	127.85	129.28	131.15	132.22	130.89	131.58	130.88	129.31	131.93
80	114.99	115.32	116.82	118.80	120.09	118.86	118.85	117.73	116.51	119.05
81	103.20	103.27	104.67	106.77	107.99	106.74	106.08	104.30	103.62	106.02
82	91.54	91.62	93.25	94.90	96.22	95.03	93.19	91.67	90.90	93.39
83	79.92	79.31	81.20	82.50	84.47	81.26	79.96	76.70	76.23	80.85
84	67.51	66.99	69.23	70.09	71.96	67.43	66.53	61.69	61.51	66.65
85	55.03	54.66	56.84	57.68	58.54	53.60	49.88	46.69	46.80	50.25
86	41.71	41.69	43.52	45.33	45.07	38.20	35.90	32.25	32.17	36.49
87	28.11	27.94	29.18	31.49	30.61	21.71	21.91	17.68	17.12	22.74
88	14.50	11.75	14.85	12.67	16.14	9.19	7.99	11.79	11.43	9.02
89	1.10	7.81	0.63	8.47	1.74	4.69	0.67	6.06	5.85	1.50
90	0.20	4.04	0.20	4.40	0.20	0.27	0.21	0.32	0.27	0.20
91	0.21	0.27	0.21	0.34	0.21	0.21	0.21	0.21	0.08	0.07
92	0.24	0.24	0.23	0.23	0.23	0.23	0.23	0.23	0.08	0.08

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93	0.27	0.27	0.26	0.26	0.26	0.26	0.26	0.26	0.09	0.08
94	0.30	0.30	0.30	0.30	0.29	0.30	0.29	0.30	0.09	0.09
95	0.35	0.35	0.34	0.34	0.34	0.34	0.33	0.34	0.11	0.10
96	0.41	0.40	0.39	0.40	0.39	0.39	0.39	0.39	0.12	0.12
97	0.48	0.47	0.46	0.46	0.45	0.46	0.45	0.45	0.14	0.14
98	0.55	0.54	0.53	0.53	0.52	0.53	0.52	0.52	0.16	0.16
99	0.64	0.62	0.61	0.61	0.60	0.61	0.60	0.60	0.18	0.18
100	0.73	0.72	0.70	0.70	0.69	0.69	0.68	0.69	0.21	0.21
101	0.83	0.82	0.80	0.80	0.79	0.79	0.78	0.78	0.24	0.24
102	0.94	0.93	0.91	0.91	0.90	0.90	0.89	0.89	0.28	0.27
103	1.07	1.06	1.03	1.04	1.02	1.02	1.01	1.01	0.31	0.31
104	1.20	1.18	1.16	1.16	1.14	1.15	1.13	1.14	0.35	0.34
105	1.32	1.31	1.28	1.28	1.27	1.26	1.25	1.26	0.39	0.38
106	1.44	1.42	1.39	1.40	1.38	1.37	1.36	1.36	0.44	0.43
107	1.55	1.53	1.50	1.51	1.49	1.48	1.46	1.47	0.49	0.48
108	1.66	1.65	1.62	1.62	1.60	1.59	1.57	1.57	0.54	0.53
109	1.79	1.77	1.74	1.74	1.72	1.71	1.67	1.67	0.60	0.59
110	1.91	1.90	1.87	1.86	1.84	1.82	1.78	1.77	0.66	0.65
111	2.04	2.03	2.00	1.99	1.96	1.94	1.89	1.87	0.73	0.72
112	2.17	2.16	2.13	2.13	2.10	2.07	2.00	1.97	0.81	0.79
113	2.29	2.30	2.27	2.27	2.23	2.19	2.11	2.07	0.89	0.86
114	2.42	2.44	2.41	2.41	2.36	2.32	2.23	2.19	0.98	0.92
115	2.56	2.57	2.56	2.55	2.50	2.45	2.35	2.30	1.08	1.00
116	2.70	2.72	2.71	2.69	2.64	2.58	2.47	2.42	1.19	1.09
117	2.84	2.86	2.86	2.84	2.79	2.72	2.63	2.58	1.30	1.20
118	3.00	3.02	3.01	3.00	2.94	2.88	2.78	2.77	1.41	1.32
119	3.16	3.18	3.17	3.16	3.10	3.04	2.94	2.93	1.54	1.45
120	3.34	3.34	3.33	3.32	3.28	3.21	3.10	3.10	1.66	1.57
121	3.52	3.50	3.50	3.48	3.46	3.36	3.28	3.27	1.80	1.70
122	3.70	3.68	3.68	3.66	3.64	3.52	3.44	3.43	1.93	1.84
123	3.92	3.91	3.87	3.88	3.82	3.69	3.62	3.60	2.07	1.97
124	4.14	4.15	4.07	4.10	4.00	3.88	3.79	3.78	2.21	2.11
125	4.36	4.40	4.35	4.32	4.20	4.07	3.97	3.97	2.35	2.26
126	4.58	4.65	4.66	4.56	4.41	4.28	4.18	4.17	2.50	2.42
127	4.81	4.90	4.93	4.81	4.64	4.50	4.40	4.36	2.65	2.56
128	5.06	5.16	5.18	5.07	4.88	4.72	4.62	4.58	2.80	2.71
129	5.32	5.41	5.42	5.32	5.12	4.95	4.83	4.80	2.96	2.88
130	5.59	5.67	5.67	5.57	5.36	5.18	5.08	5.04	3.13	3.05
131	5.85	5.93	5.89	5.79	5.59	5.40	5.35	5.32	3.33	3.24
132	6.09	6.19	6.12	6.00	5.81	5.61	5.59	5.57	3.54	3.45
133	6.34	6.44	6.36	6.21	5.99	5.82	5.82	5.80	3.75	3.67
134	6.59	6.66	6.57	6.42	6.17	6.02	6.02	6.00	3.96	3.90
135	6.82	6.86	6.75	6.64	6.34	6.24	6.21	6.18	4.16	4.10
136	7.04	7.02	6.94	6.82	6.55	6.47	6.38	6.38	4.35	4.30
137	7.26	7.23	7.11	6.99	6.76	6.70	6.55	6.59	4.55	4.51
138	7.47	7.44	7.28	7.16	6.99	6.91	6.76	6.80	4.74	4.73
139	7.66	7.63	7.47	7.31	7.20	7.13	6.97	7.03	4.93	4.94
140	7.85	7.83	7.68	7.49	7.40	7.33	7.19	7.28	5.11	5.13
141	8.07	8.05	7.89	7.68	7.63	7.56	7.42	7.51	5.27	5.32
142	8.31	8.26	8.11	7.86	7.88	7.78	7.66	7.73	5.45	5.53
143	8.56	8.47	8.33	8.03	8.12	7.99	7.89	7.98	5.64	5.75
144	8.81	8.69	8.58	8.21	8.35	8.20	8.10	8.21	5.83	5.95
145	9.04	8.94	8.80	8.42	8.53	8.43	8.33	8.50	6.00	6.14
146	9.27	9.17	9.03	8.71	8.76	8.64	8.56	8.75	6.15	6.30
147	9.49	9.41	9.27	9.04	8.95	8.90	8.80	8.95	6.30	6.47
148	9.68	9.62	9.51	9.33	9.14	9.16	9.01	9.14	6.45	6.61

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

149	9.88	9.85	9.71	9.56	9.31	9.42	9.30	9.37	6.59	6.75
150	10.08	10.04	9.84	9.77	9.49	9.67	9.62	9.59	6.74	6.91
151	10.28	10.20	9.92	9.92	9.66	9.91	9.92	9.81	6.92	7.08
152	10.43	10.37	10.06	10.06	9.84	10.08	10.20	10.01	7.10	7.26
153	10.60	10.55	10.22	10.24	10.11	10.23	10.48	10.19	7.23	7.42
154	10.79	10.72	10.35	10.43	10.37	10.40	10.75	10.35	7.36	7.56
155	10.97	10.86	10.45	10.61	10.57	10.58	11.00	10.53	7.47	7.70
156	11.13	10.97	10.54	10.73	10.74	10.72	11.23	10.76	7.58	7.84
157	11.28	11.11	10.63	10.80	10.86	10.84	11.42	11.00	7.73	7.97
158	11.43	11.26	10.74	10.87	10.95	10.96	11.54	11.22	7.87	8.09
159	11.56	11.41	10.85	11.00	11.04	11.10	11.62	11.43	8.00	8.20
160	11.67	11.53	10.97	11.10	11.15	11.28	11.67	11.55	8.08	8.25
161	11.75	11.60	11.05	11.15	11.23	11.42	11.70	11.61	8.10	8.28
162	11.79	11.60	11.09	11.14	11.27	11.45	11.69	11.63	8.11	8.29
163	11.86	11.63	11.18	11.13	11.27	11.45	11.69	11.63	8.15	8.37
164	11.93	11.65	11.29	11.18	11.28	11.43	11.66	11.65	8.25	8.50
165	12.03	11.75	11.39	11.30	11.30	11.45	11.68	11.68	8.38	8.65
166	12.11	11.82	11.47	11.40	11.34	11.52	11.71	11.67	8.54	8.81
167	12.13	11.80	11.49	11.38	11.33	11.46	11.70	11.64	8.72	8.97
168	12.09	11.70	11.48	11.31	11.18	11.39	11.68	11.59	8.84	9.07
169	11.99	11.53	11.38	11.29	11.07	11.39	11.59	11.47	8.97	9.17
170	11.87	11.38	11.27	11.26	10.84	11.23	11.48	11.35	8.96	9.17
171	11.80	11.30	11.18	11.29	10.77	11.22	11.44	11.37	8.93	9.16
172	11.77	11.30	11.02	11.32	10.84	11.26	11.45	11.42	9.02	9.25
173	11.68	11.21	10.83	11.25	10.80	11.21	11.38	11.38	9.22	9.44
174	11.60	11.17	10.71	11.14	10.74	11.18	11.33	11.38	9.64	9.84
175	11.54	11.07	10.72	10.99	10.69	11.14	11.27	11.37	10.11	10.29
176	11.45	10.99	10.73	10.81	10.60	10.99	11.06	11.21	10.38	10.61
177	11.28	10.88	10.69	10.62	10.52	10.86	10.87	11.03	10.56	10.87
178	11.00	10.72	10.53	10.31	10.38	10.63	10.60	10.78	10.66	10.93
179	10.88	10.65	10.52	10.19	10.33	10.49	10.50	10.70	10.67	10.95
180	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50

Vert. Angles **Horizontal Angles**

	<u>300</u>	<u>315</u>	<u>330</u>	<u>345</u>	<u>360</u>
0	12322.67	12322.67	12322.67	12322.67	12322.67
1	12323.68	12319.56	12317.21	12315.99	12309.86
2	12327.46	12312.50	12313.37	12307.57	12304.37
3	12330.89	12301.46	12307.01	12295.69	12293.59
4	12327.58	12304.24	12305.11	12290.99	12291.14
5	12323.80	12307.27	12297.34	12284.40	12284.21
6	12324.36	12313.08	12292.69	12282.00	12275.09
7	12322.36	12311.40	12294.02	12276.52	12276.91
8	12327.12	12311.74	12286.64	12277.21	12269.79
9	12342.16	12311.23	12290.20	12278.20	12268.70
10	12342.63	12319.08	12294.35	12277.27	12269.36
11	12349.83	12324.39	12296.09	12281.61	12267.01
12	12356.70	12334.01	12302.51	12278.92	12268.99
13	12372.10	12342.47	12308.83	12285.20	12270.05
14	12380.04	12351.53	12316.40	12289.99	12273.39
15	12395.65	12357.27	12324.99	12294.11	12279.92
16	12405.86	12375.89	12331.26	12301.47	12284.85
17	12425.51	12379.61	12340.74	12308.80	12292.95
18	12441.39	12397.47	12352.39	12318.75	12303.16
19	12459.00	12409.85	12364.03	12326.75	12306.52

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CANDELA TABULATION - (Cont.)

20	12472.49	12422.40	12376.81	12337.26	12322.55
21	12483.73	12435.22	12388.94	12347.87	12335.55
22	12507.43	12453.24	12405.30	12362.11	12344.99
23	12528.08	12471.38	12422.80	12380.20	12365.78
24	12541.52	12484.63	12432.15	12394.05	12373.36
25	12554.40	12497.71	12449.94	12406.82	12391.34
26	12560.21	12508.31	12457.78	12420.15	12400.43
27	12578.90	12515.82	12470.51	12429.93	12395.73
28	12580.29	12527.19	12478.12	12430.62	12402.79
29	12577.95	12529.14	12475.07	12430.92	12398.73
30	12569.34	12522.28	12472.00	12428.81	12397.70
31	12556.15	12503.85	12464.18	12417.12	12383.93
32	12541.09	12488.46	12442.11	12391.85	12365.81
33	12500.96	12456.18	12409.82	12360.69	12331.81
34	12450.24	12410.13	12366.70	12316.65	12288.37
35	12387.57	12346.86	12304.54	12263.17	12225.20
36	12304.93	12270.87	12227.24	12186.47	12147.71
37	12203.28	12168.10	12124.82	12085.44	12041.87
38	12067.88	12034.17	11992.76	11948.65	11914.63
39	11903.07	11883.39	11838.54	11794.55	11754.46
40	11705.60	11681.15	11638.31	11601.42	11554.72
41	11472.09	11457.11	11410.33	11370.40	11322.64
42	11190.21	11184.15	11127.60	11085.50	11030.93
43	10860.90	10860.85	10807.07	10754.13	10696.20
44	10488.82	10487.55	10428.39	10368.50	10298.28
45	10059.08	10056.06	9997.99	9930.42	9854.64
46	9571.03	9573.74	9504.99	9431.15	9350.65
47	9020.62	9026.60	8946.07	8868.08	8786.09
48	8430.78	8440.00	8354.38	8261.00	8172.12
49	7801.09	7800.57	7718.89	7625.54	7528.75
50	7151.27	7142.72	7057.81	6958.98	6872.85
51	6493.11	6479.01	6399.11	6298.84	6210.42
52	5836.63	5818.99	5741.47	5650.85	5561.92
53	5185.63	5169.12	5093.67	5019.03	4925.82
54	4548.03	4522.18	4454.68	4389.50	4301.17
55	3932.06	3897.33	3837.14	3788.21	3704.73
56	3305.12	3284.14	3230.13	3180.41	3114.46
57	2718.26	2690.58	2637.88	2599.40	2521.07
58	2168.07	2212.24	2076.17	2079.92	1980.41
59	1684.12	1733.90	1578.21	1561.50	1498.93
60	1260.79	1258.30	1158.80	1134.73	1102.60
61	919.32	901.81	841.76	812.51	883.46
62	735.92	638.30	640.77	589.53	665.60
63	556.71	465.11	442.56	448.55	447.74
64	377.51	373.71	364.09	370.06	366.54
65	328.73	327.00	321.59	324.56	321.38
66	301.34	299.39	294.88	297.21	292.89
67	282.39	279.84	274.66	277.16	272.43
68	266.56	263.58	258.11	260.66	256.70
69	252.81	249.97	244.73	246.82	243.15
70	240.52	237.95	232.83	234.12	231.11
71	228.87	226.72	221.66	222.27	220.52
72	217.59	215.36	210.72	210.43	210.20
73	205.55	204.01	199.98	198.60	198.87
74	193.79	192.64	188.71	187.41	187.07
75	181.32	180.39	176.38	175.52	174.82

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CANDELA TABULATION - (Cont.)

76	168.22	167.62	164.09	163.25	162.02
77	156.09	155.42	151.74	150.68	149.50
78	143.51	142.74	139.27	138.44	137.07
79	131.12	130.52	127.01	126.48	125.42
80	119.22	118.77	115.49	115.13	113.75
81	107.15	107.06	103.79	103.56	102.46
82	94.81	95.52	92.69	92.30	91.33
83	80.93	84.00	81.05	81.60	79.60
84	67.04	72.01	69.40	70.25	67.87
85	53.14	58.63	57.75	58.19	56.13
86	38.19	45.26	46.42	46.93	44.03
87	23.67	31.83	33.26	32.30	31.81
88	11.47	18.39	19.80	17.67	14.13
89	7.66	4.97	13.22	3.29	9.45
90	3.91	0.10	6.75	0.08	4.82
91	0.15	0.07	0.29	0.07	0.19
92	0.08	0.08	0.08	0.08	0.08
93	0.09	0.09	0.09	0.09	0.09
94	0.10	0.10	0.10	0.10	0.10
95	0.11	0.11	0.11	0.11	0.12
96	0.12	0.12	0.13	0.13	0.13
97	0.14	0.14	0.15	0.14	0.15
98	0.16	0.17	0.17	0.17	0.17
99	0.19	0.19	0.20	0.19	0.20
100	0.21	0.21	0.22	0.22	0.22
101	0.24	0.24	0.26	0.25	0.26
102	0.28	0.28	0.29	0.29	0.29
103	0.31	0.31	0.33	0.32	0.33
104	0.35	0.35	0.36	0.36	0.37
105	0.39	0.39	0.41	0.41	0.41
106	0.43	0.44	0.45	0.46	0.47
107	0.49	0.49	0.51	0.51	0.52
108	0.54	0.55	0.57	0.57	0.59
109	0.60	0.61	0.64	0.64	0.66
110	0.67	0.67	0.71	0.72	0.74
111	0.74	0.75	0.79	0.80	0.82
112	0.82	0.82	0.87	0.89	0.92
113	0.90	0.91	0.95	0.98	1.01
114	0.99	1.00	1.03	1.08	1.12
115	1.08	1.10	1.12	1.19	1.23
116	1.19	1.21	1.22	1.30	1.34
117	1.29	1.33	1.34	1.41	1.46
118	1.41	1.45	1.49	1.53	1.58
119	1.53	1.57	1.63	1.65	1.70
120	1.65	1.69	1.78	1.78	1.84
121	1.79	1.82	1.93	1.91	1.97
122	1.93	1.95	2.07	2.03	2.12
123	2.06	2.09	2.23	2.14	2.25
124	2.20	2.22	2.38	2.26	2.40
125	2.33	2.36	2.54	2.37	2.54
126	2.47	2.50	2.70	2.50	2.68
127	2.63	2.64	2.86	2.66	2.83
128	2.81	2.78	3.03	2.83	2.98
129	2.99	2.92	3.21	3.01	3.13
130	3.18	3.08	3.39	3.22	3.29
131	3.36	3.22	3.55	3.44	3.47

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CANDELA TABULATION - (Cont.)

132	3.55	3.38	3.71	3.66	3.64
133	3.72	3.53	3.86	3.88	3.83
134	3.87	3.68	3.99	4.08	4.01
135	4.03	3.83	4.11	4.25	4.15
136	4.22	4.02	4.26	4.41	4.30
137	4.41	4.26	4.43	4.58	4.48
138	4.58	4.53	4.63	4.79	4.67
139	4.74	4.75	4.85	4.99	4.85
140	4.93	4.91	5.07	5.18	5.03
141	5.14	5.06	5.28	5.37	5.24
142	5.35	5.20	5.49	5.56	5.42
143	5.54	5.34	5.70	5.72	5.60
144	5.73	5.51	5.88	5.87	5.78
145	5.94	5.71	6.00	6.01	5.96
146	6.15	5.89	6.09	6.15	6.14
147	6.33	6.08	6.17	6.27	6.27
148	6.50	6.26	6.23	6.40	6.34
149	6.68	6.40	6.29	6.52	6.39
150	6.86	6.54	6.35	6.62	6.44
151	7.07	6.67	6.44	6.72	6.52
152	7.29	6.81	6.56	6.82	6.61
153	7.49	6.91	6.71	6.95	6.72
154	7.65	7.00	6.87	7.07	6.80
155	7.78	7.10	7.01	7.18	6.82
156	7.91	7.21	7.10	7.25	6.82
157	8.02	7.33	7.15	7.29	6.85
158	8.06	7.46	7.22	7.30	6.89
159	8.09	7.60	7.29	7.32	6.93
160	8.11	7.73	7.38	7.33	6.98
161	8.12	7.85	7.49	7.35	7.03
162	8.15	7.94	7.60	7.41	7.07
163	8.27	8.08	7.71	7.55	7.22
164	8.39	8.24	7.85	7.76	7.44
165	8.55	8.43	8.04	7.98	7.70
166	8.74	8.64	8.25	8.19	7.96
167	8.88	8.86	8.42	8.36	8.12
168	9.05	8.98	8.51	8.42	8.25
169	9.17	9.12	8.51	8.46	8.39
170	9.20	9.16	8.49	8.51	8.48
171	9.18	9.15	8.51	8.56	8.49
172	9.25	9.25	8.68	8.68	8.56
173	9.44	9.46	8.89	8.86	8.69
174	9.84	9.83	9.32	9.21	8.95
175	10.26	10.25	9.75	9.56	9.23
176	10.53	10.50	10.03	9.90	9.47
177	10.74	10.71	10.24	10.18	9.73
178	10.86	10.82	10.42	10.33	9.91
179	10.96	10.93	10.58	10.46	10.21
180	10.50	10.50	10.50	10.50	10.50

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	4710.98	15.80	15.80
0-30	10548.34	35.30	35.30
0-40	18269.85	61.20	61.20
0-60	29139.3	97.60	97.60
0-80	29777.25	99.70	99.70
0-90	29833.5	99.90	99.90
10-90	28654.35	96.00	96.00
20-40	13558.87	45.40	45.40
20-50	21008.04	70.40	70.40
40-70	11321.06	37.90	37.90
60-80	637.95	2.10	2.10
70-80	186.33	0.60	0.60
80-90	56.26	0.20	0.20
90-110	1.24	0.00	0.00
90-120	3.06	0.00	0.00
90-130	6.05	0.00	0.00
90-150	14.68	0.00	0.00
90-180	22.64	0.10	0.10
110-180	21.40	0.10	0.10
0-180	29856.15	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1179.15
10-20	3531.83
20-30	5837.36
30-40	7721.51
40-50	7449.17
50-60	3420.28
60-70	451.61
70-80	186.33
80-90	56.26
90-100	0.34
100-110	0.91
110-120	1.82
120-130	2.98
130-140	4.08
140-150	4.55
150-160	4.15
160-170	2.82
170-180	0.99

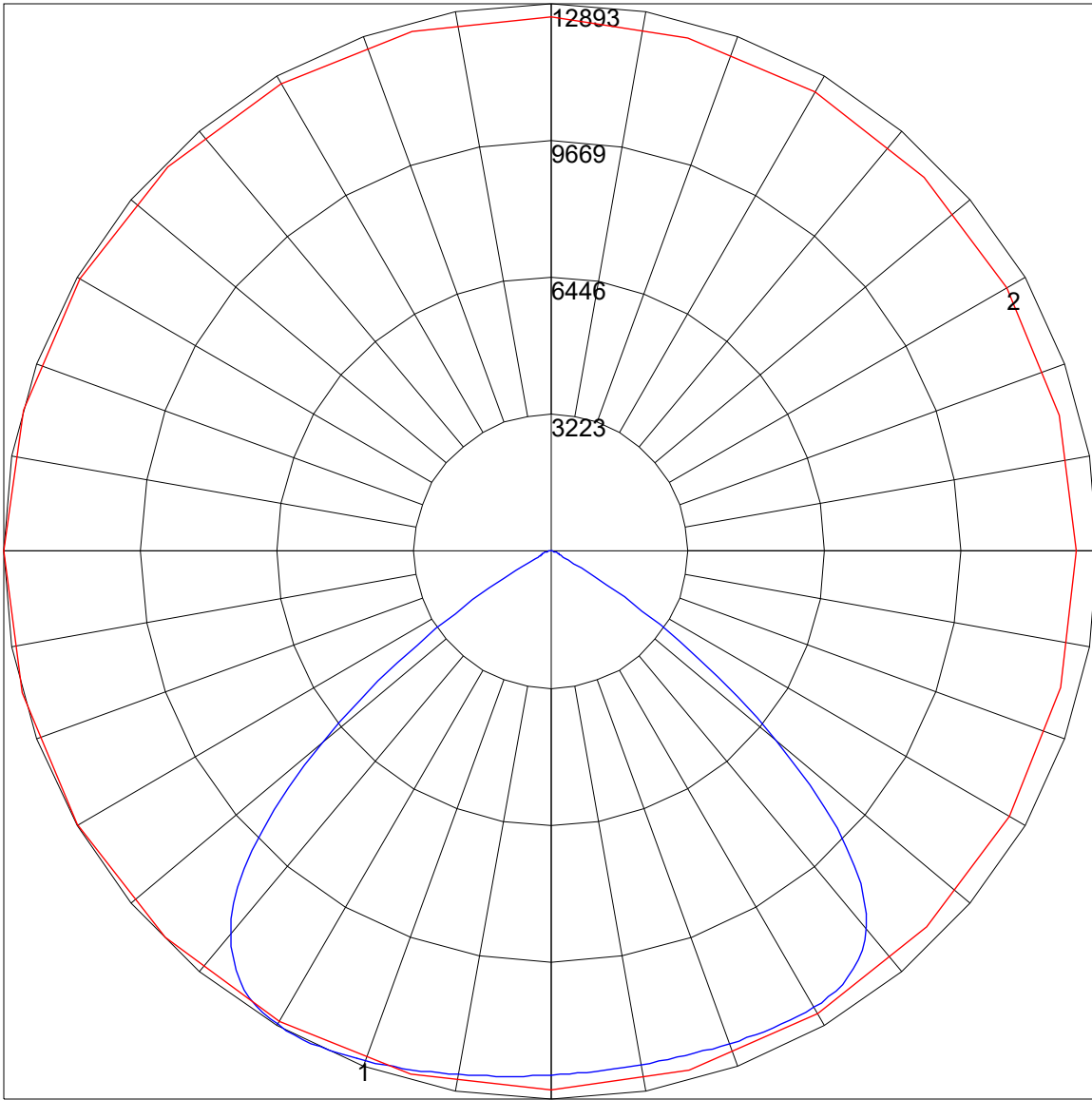
IES INDOOR REPORT
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54
6	77	65	57	52	75	64	57	51	62	56	51	61	55	51	59	54	50	48
7	71	59	51	46	70	59	51	46	57	50	46	56	50	45	54	49	45	43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35
10	58	46	39	34	57	45	38	34	45	38	34	44	38	33	43	37	33	32

POLAR GRAPH



Maximum Candela = 12892.6 Located At Horizontal Angle = 195, Vertical Angle = 27
1 - Vertical Plane Through Horizontal Angles (195 - 15) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (27) (Through Max. Cd.)