



IES INDOOR REPORT
PHOTOMETRIC FILENAME : HBRMSR-LED135DMV50.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]
 [TESTLAB] Dongguan New Testing Centre Co., Ltd
 [TESTDATE] 21 May 2019
 [ISSUEDATE] 2019-05-21 09:02:27
 [NEARFIELD]
 [LAMPPOSITION] 0,0
 [OTHER] EVERFINE GO-R5000_V2 SYSTEM
 [MANUFAC] Mobern Lighting Co.
 [LUMCAT] HBRMSR-LED135DMV40
 [MHB04]
 [LUMINAIRE] LED
 [BALLAST] 120-277Vac,50/60Hz
 [OTHER]

[OTHER]	Gamma(deg)	Fz(lm)	Ft(lm)	%Lum	%Lamp
[OTHER]	0- 10	800.42	800.42	4.09	4.09
[OTHER]	10- 20	2394.02	3194.43	16.34	16.34
[OTHER]	20- 30	3934.70	7129.13	36.46	36.46
[OTHER]	30- 40	5137.17	12266.30	62.73	62.73
[OTHER]	40- 50	4796.15	17062.45	87.26	87.26
[OTHER]	50- 60	2000.10	19062.56	97.49	97.49
[OTHER]	60- 70	294.30	19356.86	99.00	99.00
[OTHER]	70- 80	141.94	19498.80	99.72	99.72
[OTHER]	80- 90	39.53	19538.34	99.93	99.93
[OTHER]	90-100	0.15	19538.49	99.93	99.93
[OTHER]	100-110	0.51	19538.99	99.93	99.93
[OTHER]	110-120	1.10	19540.10	99.93	99.93
[OTHER]	120-130	1.92	19542.01	99.94	99.94
[OTHER]	130-140	2.68	19544.69	99.96	99.96
[OTHER]	140-150	3.00	19547.69	99.97	99.97
[OTHER]	150-160	2.75	19550.44	99.99	99.99
[OTHER]	160-170	1.87	19552.31	100.00	100.00
[OTHER]	170-180	0.65	19552.96	100.00	100.00
[OTHER]					

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CHARACTERISTICS

Lumens Per Lamp	19553 (1 lamp)
Total Lamp Lumens	19553
Luminaire Lumens	19553
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	144
Total Luminaire Watts	135.71
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.50
Spacing Criterion (90-270)	1.50
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	89107	90257	94469
55	34588	36282	39719
65	6063	6143	6111
75	5556	5378	5295
85	2922	4015	4397

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CANDELA TABULATION

	0	15	30	45	60	75	90	105	120	135
0	8365.95	8365.95	8365.95	8365.95	8365.95	8365.95	8365.95	8365.95	8365.95	8365.95
1	8378.21	8374.04	8374.70	8369.37	8370.00	8365.54	8359.41	8358.79	8355.99	8358.28
2	8389.42	8385.18	8380.75	8374.38	8373.51	8362.51	8357.38	8349.66	8347.23	8349.61
3	8402.84	8393.28	8389.31	8381.51	8372.92	8366.98	8356.36	8346.48	8342.42	8342.21
4	8417.58	8404.93	8396.38	8388.75	8377.73	8365.27	8354.29	8342.67	8334.84	8333.66
5	8427.81	8416.25	8408.63	8397.01	8381.50	8368.20	8353.04	8343.62	8331.78	8329.54
6	8438.76	8429.95	8421.04	8407.48	8389.00	8375.01	8355.74	8337.86	8327.29	8323.09
7	8454.75	8441.78	8428.87	8414.08	8394.28	8377.50	8357.19	8339.51	8323.92	8319.51
8	8466.21	8454.00	8441.95	8423.45	8403.96	8382.69	8360.85	8338.52	8323.82	8317.82
9	8482.66	8469.09	8451.69	8432.90	8413.00	8386.87	8362.23	8340.53	8319.46	8313.70
10	8496.17	8480.20	8466.10	8444.28	8419.29	8391.15	8365.64	8342.91	8320.82	8309.92
11	8513.88	8494.62	8479.80	8451.32	8427.19	8399.29	8370.18	8340.94	8320.55	8310.86
12	8526.76	8508.00	8492.59	8464.32	8436.11	8405.66	8374.21	8345.63	8323.23	8308.15
13	8542.11	8524.81	8501.20	8474.63	8445.02	8411.85	8378.32	8346.69	8322.64	8307.78
14	8553.89	8535.47	8512.77	8486.13	8455.01	8417.47	8382.18	8351.11	8327.79	8307.10
15	8566.19	8549.54	8525.81	8496.80	8465.01	8428.88	8391.37	8356.59	8331.53	8307.09
16	8580.62	8560.92	8536.57	8506.44	8472.79	8436.83	8399.27	8362.84	8333.21	8312.59
17	8593.32	8572.41	8548.66	8514.11	8482.55	8444.73	8403.78	8369.54	8342.50	8318.67
18	8602.14	8588.00	8560.66	8524.11	8490.18	8451.43	8412.96	8377.80	8343.58	8323.59
19	8613.65	8597.07	8571.30	8537.59	8500.10	8458.89	8420.12	8380.00	8348.45	8326.66
20	8625.35	8605.03	8578.29	8544.53	8507.57	8469.05	8425.06	8387.05	8357.79	8330.11
21	8630.40	8612.30	8585.43	8550.12	8519.65	8475.42	8431.15	8394.07	8365.25	8337.52
22	8634.93	8619.91	8593.21	8558.52	8528.27	8484.96	8441.17	8401.48	8371.48	8348.55
23	8642.44	8624.63	8595.30	8567.58	8533.94	8490.73	8451.07	8408.60	8377.45	8352.49
24	8641.29	8624.90	8599.32	8565.30	8538.40	8497.38	8457.62	8417.27	8387.32	8359.50
25	8638.86	8622.35	8598.09	8569.62	8539.83	8500.40	8465.01	8421.86	8392.80	8368.15
26	8630.47	8615.60	8592.96	8565.90	8536.80	8499.36	8467.72	8429.30	8398.86	8372.77
27	8621.44	8609.42	8586.76	8558.44	8531.28	8501.30	8469.31	8428.74	8408.43	8376.59
28	8601.84	8589.34	8572.93	8550.99	8520.70	8493.37	8466.23	8427.05	8405.24	8376.28
29	8578.45	8567.31	8551.04	8528.09	8508.67	8486.71	8460.91	8424.70	8397.07	8376.61
30	8545.59	8540.57	8523.87	8506.66	8488.08	8469.03	8447.82	8412.75	8391.49	8368.23
31	8502.42	8499.55	8490.16	8474.76	8457.85	8443.31	8428.84	8398.89	8376.70	8358.44
32	8452.66	8453.44	8444.43	8431.60	8423.61	8410.22	8402.11	8371.47	8355.49	8340.87
33	8388.98	8391.45	8384.37	8379.88	8376.50	8369.01	8363.82	8343.23	8327.82	8314.32
34	8314.30	8317.49	8317.55	8315.17	8319.07	8317.56	8322.81	8298.15	8292.71	8282.65
35	8223.30	8232.59	8233.40	8238.80	8247.01	8251.24	8266.91	8244.01	8242.94	8231.11
36	8118.18	8127.74	8134.74	8144.22	8161.71	8174.64	8192.71	8173.38	8179.46	8177.73
37	7989.24	8009.39	8014.56	8035.19	8055.53	8071.07	8106.44	8086.87	8105.06	8100.38
38	7843.49	7871.86	7874.26	7902.39	7924.37	7957.09	8001.65	7984.94	8006.57	8006.93
39	7679.54	7702.27	7713.98	7745.89	7777.35	7811.96	7865.52	7857.66	7890.69	7896.89
40	7481.83	7509.77	7525.61	7567.39	7598.90	7644.72	7710.23	7705.30	7743.13	7759.67
41	7260.81	7288.15	7301.50	7355.15	7392.95	7449.07	7525.85	7522.04	7572.32	7596.06
42	7005.14	7031.96	7045.88	7104.05	7152.06	7213.56	7305.79	7306.27	7365.43	7395.62
43	6723.77	6745.59	6753.63	6822.88	6879.93	6948.82	7052.97	7051.84	7128.34	7159.63
44	6404.52	6423.53	6420.26	6497.06	6563.71	6639.80	6760.58	6761.78	6849.04	6882.00
45	6064.67	6068.92	6073.18	6142.93	6215.66	6298.77	6429.63	6430.12	6530.90	6573.21
46	5685.99	5684.33	5683.97	5757.80	5834.17	5913.58	6060.69	6057.49	6174.82	6208.34
47	5286.70	5277.79	5283.23	5348.71	5420.40	5501.09	5649.16	5648.76	5766.10	5808.12
48	4873.22	4861.22	4860.87	4928.50	4997.94	5065.95	5215.57	5204.09	5329.83	5364.89
49	4436.43	4428.86	4431.35	4495.30	4549.66	4627.72	4760.93	4741.92	4857.09	4891.18
50	3999.75	4000.40	3987.42	4051.97	4106.97	4172.87	4303.36	4274.59	4386.09	4417.82
51	3564.76	3565.76	3567.05	3618.42	3657.29	3728.16	3853.59	3816.49	3916.40	3947.46
52	3133.55	3147.32	3143.95	3197.50	3226.74	3289.88	3405.78	3375.67	3463.34	3494.03
53	2712.47	2734.55	2729.30	2780.64	2802.62	2865.00	2979.84	2947.05	3028.53	3063.42

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54	2299.00	2347.12	2312.55	2391.85	2393.21	2452.73	2560.39	2533.27	2612.88	2653.81
55	1909.56	1959.70	1922.80	2003.06	2007.27	2080.09	2192.79	2140.33	2258.06	2261.94
56	1536.16	1573.03	1548.88	1615.83	1639.76	1708.27	1825.19	1781.33	1903.23	1897.37
57	1196.85	1232.10	1217.16	1280.25	1302.10	1366.08	1458.55	1448.13	1548.69	1554.29
58	918.13	949.69	943.49	999.72	1010.96	1068.08	1149.38	1137.84	1228.05	1235.73
59	726.78	729.94	755.04	771.03	830.45	819.35	879.10	921.35	946.96	959.23
60	535.86	567.96	566.79	595.89	650.19	627.91	670.40	707.73	718.25	772.79
61	428.48	449.27	454.07	470.16	469.93	485.24	510.30	494.11	541.81	589.34
62	354.31	367.95	375.20	383.27	379.95	382.97	396.09	378.27	412.22	405.89
63	304.11	312.00	317.38	321.41	318.62	315.17	321.70	308.04	327.61	321.40
64	270.73	274.37	276.91	278.84	277.23	271.94	276.71	267.75	278.45	274.25
65	246.61	248.69	249.17	249.88	249.08	246.10	248.59	243.06	250.12	247.55
66	229.05	233.18	228.90	233.12	228.65	229.87	231.91	224.91	233.15	228.66
67	214.95	217.66	212.93	216.37	212.03	213.64	215.23	210.06	216.19	214.02
68	203.41	202.20	200.38	199.73	198.86	197.53	198.55	197.05	199.24	201.21
69	193.91	192.56	189.65	189.06	188.18	186.64	186.87	186.19	188.21	190.58
70	184.67	183.26	180.94	180.11	178.68	177.19	176.84	176.60	178.35	181.10
71	177.09	176.23	173.35	173.18	171.34	169.29	167.52	167.27	169.33	172.46
72	168.91	167.61	164.10	164.06	164.60	162.38	158.78	158.11	161.00	164.19
73	159.41	157.65	154.07	154.65	157.38	153.29	150.48	149.06	152.14	154.69
74	150.45	147.95	144.47	144.69	146.82	142.23	141.72	139.67	143.00	144.61
75	138.40	136.45	133.36	133.97	134.60	131.74	131.92	129.83	133.18	134.80
76	126.54	125.47	121.94	123.46	122.73	122.02	121.17	120.52	122.48	124.65
77	114.66	114.67	110.80	113.15	112.21	112.65	110.92	110.81	112.62	114.71
78	102.76	103.17	100.56	103.15	101.78	102.91	100.87	101.24	102.27	104.46
79	92.24	93.22	90.36	93.65	92.20	93.32	91.33	91.67	92.48	96.07
80	81.75	82.43	80.15	84.18	82.66	83.69	82.35	82.09	83.06	85.90
81	71.26	72.53	69.95	74.62	73.11	74.33	73.24	72.52	73.96	75.72
82	61.06	62.34	60.40	65.19	64.21	65.06	64.56	63.29	65.31	66.48
83	48.27	50.79	50.01	55.69	54.83	56.23	55.56	54.73	56.33	57.49
84	36.48	38.13	37.95	45.07	44.61	46.80	45.97	45.41	47.24	48.00
85	24.51	26.75	26.01	33.68	35.31	37.47	36.89	35.88	37.70	37.18
86	12.24	15.38	15.75	22.28	25.48	26.59	26.42	26.53	27.26	26.47
87	8.05	4.18	10.48	10.95	13.66	15.72	15.95	17.38	16.82	13.85
88	4.06	0.43	5.34	2.24	9.07	4.92	5.54	11.64	6.41	9.17
89	0.06	0.06	0.21	0.06	4.62	0.04	0.14	5.94	0.28	4.68
90	0.02	0.02	0.02	0.02	0.17	0.02	0.12	0.25	0.12	0.20
91	0.02	0.02	0.02	0.02	0.02	0.02	0.13	0.13	0.12	0.13
92	0.03	0.02	0.03	0.02	0.03	0.02	0.14	0.14	0.14	0.14
93	0.03	0.03	0.03	0.03	0.03	0.03	0.16	0.16	0.15	0.15
94	0.04	0.03	0.03	0.03	0.04	0.03	0.18	0.18	0.17	0.17
95	0.05	0.04	0.04	0.04	0.04	0.04	0.20	0.20	0.19	0.19
96	0.06	0.05	0.06	0.06	0.06	0.05	0.23	0.23	0.22	0.22
97	0.07	0.07	0.07	0.07	0.07	0.06	0.27	0.27	0.26	0.25
98	0.08	0.08	0.08	0.08	0.09	0.08	0.31	0.31	0.30	0.29
99	0.10	0.10	0.10	0.10	0.10	0.09	0.36	0.36	0.34	0.34
100	0.12	0.11	0.12	0.11	0.12	0.11	0.41	0.41	0.39	0.38
101	0.14	0.14	0.14	0.13	0.14	0.13	0.47	0.47	0.45	0.44
102	0.16	0.16	0.16	0.16	0.16	0.15	0.54	0.54	0.51	0.50
103	0.19	0.18	0.18	0.18	0.18	0.18	0.62	0.61	0.58	0.58
104	0.21	0.21	0.21	0.20	0.21	0.20	0.70	0.69	0.66	0.65
105	0.24	0.23	0.23	0.23	0.23	0.23	0.77	0.77	0.74	0.72
106	0.27	0.26	0.26	0.26	0.27	0.26	0.84	0.84	0.80	0.79
107	0.30	0.30	0.30	0.29	0.30	0.29	0.91	0.90	0.87	0.85
108	0.34	0.33	0.33	0.33	0.34	0.33	0.99	0.97	0.94	0.92
109	0.38	0.37	0.38	0.37	0.38	0.38	1.06	1.05	1.01	0.99

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110	0.42	0.41	0.42	0.41	0.43	0.43	1.14	1.13	1.09	1.07
111	0.47	0.46	0.47	0.46	0.47	0.48	1.23	1.22	1.17	1.14
112	0.52	0.49	0.52	0.51	0.52	0.53	1.32	1.30	1.26	1.22
113	0.58	0.54	0.57	0.57	0.57	0.60	1.41	1.40	1.34	1.30
114	0.64	0.59	0.63	0.63	0.64	0.66	1.51	1.49	1.44	1.39
115	0.70	0.66	0.70	0.69	0.71	0.73	1.60	1.59	1.53	1.48
116	0.77	0.73	0.77	0.77	0.79	0.80	1.71	1.69	1.63	1.57
117	0.84	0.81	0.84	0.84	0.88	0.87	1.81	1.80	1.73	1.67
118	0.92	0.88	0.92	0.92	0.96	0.94	1.92	1.91	1.84	1.79
119	1.00	0.96	1.00	1.00	1.05	1.01	2.03	2.02	1.95	1.90
120	1.09	1.05	1.09	1.08	1.14	1.08	2.15	2.14	2.08	2.02
121	1.17	1.14	1.17	1.17	1.23	1.15	2.27	2.26	2.21	2.13
122	1.27	1.23	1.26	1.26	1.32	1.22	2.39	2.39	2.33	2.25
123	1.36	1.32	1.35	1.35	1.42	1.30	2.53	2.55	2.46	2.37
124	1.45	1.41	1.43	1.45	1.52	1.40	2.68	2.69	2.59	2.51
125	1.55	1.51	1.53	1.54	1.62	1.51	2.88	2.86	2.74	2.66
126	1.64	1.60	1.63	1.63	1.73	1.63	3.09	3.04	2.90	2.81
127	1.74	1.69	1.74	1.72	1.84	1.76	3.27	3.20	3.06	2.97
128	1.83	1.80	1.84	1.81	1.95	1.88	3.44	3.38	3.24	3.13
129	1.95	1.91	1.96	1.91	2.06	2.00	3.61	3.55	3.41	3.29
130	2.07	2.03	2.08	2.00	2.18	2.12	3.78	3.72	3.58	3.45
131	2.20	2.15	2.19	2.10	2.28	2.25	3.94	3.88	3.74	3.61
132	2.33	2.28	2.30	2.20	2.37	2.38	4.11	4.03	3.89	3.76
133	2.47	2.42	2.41	2.30	2.47	2.51	4.26	4.19	4.02	3.91
134	2.61	2.57	2.52	2.39	2.56	2.64	4.41	4.34	4.16	4.07
135	2.73	2.70	2.64	2.48	2.66	2.74	4.53	4.49	4.29	4.21
136	2.85	2.83	2.78	2.62	2.78	2.85	4.66	4.62	4.43	4.35
137	2.98	2.98	2.90	2.80	2.91	2.97	4.77	4.73	4.58	4.51
138	3.11	3.13	3.01	2.99	3.04	3.10	4.89	4.85	4.72	4.65
139	3.25	3.27	3.14	3.14	3.17	3.23	5.04	4.96	4.87	4.81
140	3.37	3.42	3.28	3.26	3.29	3.35	5.17	5.08	5.01	4.94
141	3.49	3.56	3.42	3.36	3.41	3.46	5.31	5.21	5.15	5.10
142	3.60	3.69	3.57	3.46	3.56	3.57	5.47	5.32	5.32	5.25
143	3.71	3.82	3.71	3.59	3.70	3.67	5.62	5.43	5.49	5.38
144	3.82	3.95	3.86	3.72	3.84	3.77	5.78	5.56	5.63	5.52
145	3.94	4.08	4.00	3.85	3.95	3.87	5.93	5.71	5.76	5.68
146	4.06	4.21	4.12	3.97	4.05	3.98	6.09	5.92	5.90	5.83
147	4.17	4.33	4.22	4.09	4.11	4.09	6.25	6.14	6.04	6.00
148	4.27	4.43	4.32	4.21	4.15	4.20	6.41	6.33	6.16	6.17
149	4.37	4.53	4.43	4.32	4.19	4.29	6.55	6.47	6.27	6.34
150	4.47	4.62	4.57	4.41	4.25	4.36	6.62	6.60	6.40	6.51
151	4.59	4.74	4.71	4.50	4.31	4.41	6.68	6.70	6.51	6.66
152	4.70	4.85	4.85	4.58	4.39	4.47	6.79	6.80	6.64	6.78
153	4.79	4.96	4.97	4.65	4.48	4.54	6.89	6.92	6.82	6.88
154	4.87	5.05	5.08	4.71	4.57	4.62	6.98	7.04	6.98	6.99
155	4.95	5.14	5.17	4.76	4.65	4.69	7.05	7.15	7.11	7.10
156	5.05	5.23	5.26	4.82	4.70	4.74	7.10	7.22	7.23	7.19
157	5.15	5.32	5.32	4.89	4.73	4.77	7.16	7.26	7.30	7.27
158	5.25	5.40	5.35	4.98	4.79	4.78	7.24	7.32	7.36	7.35
159	5.34	5.46	5.36	5.06	4.83	4.79	7.31	7.41	7.42	7.44
160	5.38	5.49	5.37	5.15	4.87	4.81	7.38	7.47	7.48	7.55
161	5.40	5.51	5.39	5.23	4.93	4.84	7.41	7.47	7.52	7.63
162	5.40	5.53	5.42	5.29	4.98	4.88	7.43	7.44	7.54	7.64
163	5.44	5.58	5.48	5.38	5.06	4.98	7.48	7.42	7.54	7.63
164	5.51	5.67	5.55	5.49	5.17	5.11	7.57	7.46	7.55	7.63
165	5.58	5.75	5.64	5.60	5.29	5.26	7.63	7.54	7.56	7.63

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CANDELA TABULATION - (Cont.)

166	5.67	5.86	5.77	5.73	5.45	5.42	7.68	7.61	7.56	7.63
167	5.79	5.95	5.88	5.84	5.56	5.52	7.67	7.56	7.52	7.60
168	5.87	6.04	5.97	5.90	5.59	5.56	7.65	7.53	7.44	7.55
169	5.96	6.10	6.05	5.97	5.60	5.59	7.59	7.50	7.35	7.53
170	5.98	6.09	6.06	5.99	5.59	5.62	7.53	7.51	7.20	7.44
171	5.97	6.09	6.05	6.00	5.60	5.67	7.46	7.54	7.17	7.44
172	6.03	6.16	6.10	6.09	5.71	5.77	7.36	7.54	7.20	7.46
173	6.17	6.31	6.24	6.24	5.86	5.91	7.24	7.49	7.16	7.42
174	6.45	6.59	6.52	6.51	6.17	6.17	7.15	7.42	7.13	7.40
175	6.73	6.88	6.81	6.78	6.47	6.44	7.15	7.30	7.09	7.37
176	6.88	7.09	6.98	6.95	6.65	6.64	7.17	7.19	7.04	7.27
177	6.98	7.18	7.09	7.09	6.80	6.82	7.16	7.08	7.00	7.19
178	7.00	7.19	7.15	7.14	6.92	6.91	7.05	6.88	6.91	7.05
179	7.05	7.22	7.20	7.20	7.01	6.99	7.04	6.80	6.89	6.96
180	7.13	7.13	7.13	7.13	7.13	7.13	7.13	7.13	7.13	7.13

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	8365.95	8365.95	8365.95	8365.95	8365.95	8365.95	8365.95	8365.95	8365.95	8365.95
1	8353.84	8353.46	8359.13	8356.67	8358.37	8361.50	8363.91	8367.66	8370.32	8372.27
2	8344.26	8343.86	8347.90	8349.67	8354.20	8359.34	8364.95	8370.10	8372.47	8381.49
3	8334.49	8336.03	8337.84	8344.50	8348.09	8359.95	8366.40	8370.80	8379.64	8387.05
4	8326.55	8327.00	8332.30	8337.45	8344.28	8357.57	8369.45	8378.23	8389.35	8397.42
5	8319.59	8322.75	8327.12	8330.96	8343.23	8358.90	8372.93	8381.19	8399.38	8407.43
6	8312.19	8315.69	8324.39	8329.18	8341.83	8359.94	8375.03	8386.64	8406.26	8417.65
7	8307.36	8311.73	8318.72	8325.70	8340.51	8358.24	8377.09	8395.01	8414.15	8430.86
8	8305.29	8308.23	8312.97	8321.00	8341.53	8363.00	8383.70	8401.10	8422.97	8439.74
9	8299.05	8305.16	8308.56	8319.49	8341.54	8364.09	8387.46	8409.09	8433.09	8451.25
10	8295.68	8300.30	8310.17	8318.79	8341.90	8368.52	8391.74	8416.05	8440.93	8460.08
11	8292.23	8298.26	8307.41	8321.51	8342.58	8371.34	8399.66	8428.19	8452.19	8477.00
12	8289.82	8294.79	8305.02	8323.26	8345.06	8381.32	8403.11	8434.73	8462.22	8484.74
13	8288.83	8293.75	8301.97	8320.25	8349.46	8380.06	8412.53	8443.50	8474.09	8499.85
14	8291.89	8295.08	8304.86	8324.26	8348.51	8384.49	8420.01	8450.39	8485.07	8509.45
15	8291.24	8296.47	8309.89	8322.62	8355.14	8389.23	8426.68	8461.30	8496.04	8524.34
16	8295.39	8301.52	8308.65	8327.28	8360.57	8395.91	8436.46	8469.85	8502.75	8536.32
17	8298.47	8302.67	8313.79	8333.20	8363.44	8403.78	8443.91	8479.36	8517.25	8551.54
18	8299.50	8305.79	8317.57	8337.78	8371.93	8412.02	8452.07	8491.62	8527.14	8563.11
19	8306.83	8309.20	8319.94	8344.92	8381.75	8420.93	8461.68	8499.50	8539.53	8571.79
20	8310.55	8313.03	8323.11	8347.78	8387.68	8429.39	8472.83	8511.86	8546.70	8586.25
21	8318.96	8321.18	8329.34	8353.52	8394.52	8438.31	8482.62	8524.20	8557.55	8591.60
22	8326.70	8324.42	8337.41	8362.15	8402.51	8444.01	8491.77	8530.19	8568.23	8601.42
23	8333.26	8335.56	8344.88	8370.89	8409.30	8452.18	8500.88	8538.27	8573.02	8611.33
24	8336.52	8342.63	8351.26	8376.97	8417.66	8458.18	8511.12	8541.89	8578.92	8615.10
25	8347.85	8348.38	8359.98	8381.22	8423.25	8465.99	8512.14	8547.42	8582.72	8617.11
26	8352.93	8352.99	8363.87	8386.79	8427.69	8466.91	8512.48	8547.17	8577.98	8616.25
27	8357.80	8357.50	8370.35	8392.00	8431.40	8471.05	8517.29	8545.83	8576.61	8609.22
28	8362.16	8362.94	8372.97	8392.38	8430.34	8464.59	8512.48	8539.27	8564.42	8600.30
29	8362.74	8363.05	8369.95	8389.63	8422.67	8460.00	8501.70	8529.38	8552.19	8580.91
30	8358.65	8359.34	8369.02	8383.52	8415.45	8451.15	8491.11	8513.36	8531.36	8562.28
31	8349.82	8347.60	8359.61	8373.39	8399.58	8438.54	8472.03	8488.69	8502.67	8532.15
32	8331.38	8334.37	8343.69	8354.01	8381.74	8411.79	8442.77	8457.79	8463.46	8487.42
33	8303.81	8312.76	8323.64	8328.07	8354.50	8379.70	8403.18	8416.09	8417.92	8436.33
34	8274.94	8283.51	8293.44	8298.55	8321.73	8340.09	8361.84	8364.38	8359.70	8375.33
35	8234.18	8244.66	8251.21	8254.40	8275.94	8289.76	8301.01	8297.76	8286.55	8298.15
36	8183.16	8190.36	8203.19	8200.90	8220.13	8225.69	8234.19	8221.79	8198.93	8208.45

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CANDELA TABULATION - (Cont.)

37	8111.15	8123.82	8139.13	8133.44	8145.82	8148.72	8144.93	8123.89	8095.09	8098.14
38	8025.50	8041.95	8058.52	8051.86	8058.40	8047.06	8043.75	8010.05	7975.38	7970.36
39	7915.73	7937.96	7957.06	7949.35	7950.13	7932.81	7918.20	7876.44	7826.35	7824.15
40	7782.72	7813.73	7835.35	7818.66	7815.53	7788.76	7770.71	7713.47	7656.48	7648.27
41	7627.95	7656.72	7682.30	7659.89	7650.16	7622.53	7594.58	7526.58	7458.81	7453.85
42	7431.85	7470.83	7495.98	7472.93	7458.64	7421.81	7385.68	7313.38	7232.14	7225.69
43	7209.57	7248.48	7278.61	7251.15	7236.42	7194.11	7150.71	7066.39	6980.46	6968.26
44	6947.08	6987.64	7023.37	6990.88	6975.29	6925.50	6884.53	6791.02	6690.59	6686.73
45	6643.87	6682.34	6719.51	6688.41	6674.99	6624.66	6575.32	6475.18	6368.92	6362.02
46	6292.77	6333.66	6375.82	6349.99	6338.17	6282.03	6234.69	6132.91	6011.91	6011.70
47	5894.09	5942.99	5989.00	5963.15	5947.35	5902.74	5850.68	5749.92	5622.19	5627.76
48	5453.92	5508.17	5565.69	5530.85	5526.75	5483.93	5439.50	5336.36	5204.73	5214.29
49	5001.73	5054.88	5115.01	5085.67	5080.25	5038.20	4992.47	4897.13	4767.20	4780.81
50	4521.25	4581.42	4645.99	4617.33	4612.24	4580.31	4540.06	4447.11	4316.88	4328.53
51	4053.52	4109.79	4170.24	4150.11	4153.45	4120.76	4084.24	3997.51	3865.21	3878.89
52	3590.39	3649.10	3702.46	3679.16	3696.72	3661.96	3633.87	3550.27	3421.25	3428.34
53	3158.43	3210.03	3256.51	3249.07	3258.74	3216.28	3188.05	3119.87	2988.47	2999.18
54	2740.41	2786.98	2829.68	2820.59	2829.44	2784.73	2761.04	2685.79	2563.77	2567.53
55	2364.03	2374.15	2444.44	2410.04	2441.09	2365.65	2374.76	2275.51	2152.69	2187.88
56	1987.64	1987.68	2059.20	2019.89	2052.74	1980.91	1988.48	1879.66	1766.49	1808.22
57	1611.27	1617.84	1675.38	1643.82	1665.79	1611.53	1602.69	1512.60	1405.36	1429.67
58	1283.99	1283.65	1337.13	1307.98	1324.60	1277.55	1261.16	1186.44	1094.45	1107.30
59	997.75	988.03	1023.94	1009.36	1017.59	977.23	961.06	906.34	880.72	839.31
60	755.12	794.38	768.98	806.89	756.55	778.75	713.65	697.04	668.02	626.26
61	561.24	601.51	562.02	604.61	551.61	582.48	519.94	488.87	455.32	466.58
62	423.14	408.64	420.12	402.33	408.38	386.21	388.81	371.86	353.87	362.91
63	334.64	324.71	330.76	316.86	324.25	310.21	315.25	306.16	300.65	304.02
64	284.67	279.71	283.86	274.00	278.22	271.08	277.08	272.47	269.92	272.55
65	255.76	253.80	257.37	249.76	252.74	248.36	253.87	251.09	248.98	251.20
66	236.65	234.96	238.11	231.76	236.23	230.69	237.91	233.73	231.99	235.82
67	221.34	219.66	222.56	216.43	219.71	216.00	221.94	219.22	217.67	220.45
68	206.05	206.80	207.05	203.13	203.35	203.23	206.02	206.75	204.92	205.21
69	194.16	195.39	194.80	191.38	191.79	191.81	194.19	195.37	193.92	193.95
70	184.37	185.79	184.66	181.16	181.63	181.85	184.27	184.96	183.89	183.98
71	175.57	177.12	175.20	171.88	172.44	173.21	175.06	175.73	174.16	174.56
72	167.03	168.90	166.82	163.28	163.95	164.71	166.69	166.57	164.53	165.07
73	157.78	159.81	158.29	154.11	154.90	155.42	158.07	156.61	154.38	155.35
74	147.77	149.78	149.58	144.68	145.17	146.11	148.61	146.27	144.10	145.67
75	137.69	139.36	139.64	135.25	135.70	136.60	138.23	135.95	133.41	135.11
76	126.57	128.93	128.84	125.84	125.66	126.75	127.41	125.79	122.58	125.27
77	115.41	118.55	118.19	116.65	115.97	116.79	116.45	115.91	111.91	115.55
78	104.49	107.90	107.37	106.82	105.96	106.72	105.95	105.84	101.86	105.56
79	94.41	97.51	96.46	96.57	96.44	97.19	96.20	96.64	92.48	96.26
80	84.65	86.96	86.47	86.63	86.82	87.63	86.87	87.12	83.12	87.08
81	74.76	76.41	76.77	76.69	77.02	78.06	77.66	77.59	73.76	77.80
82	65.52	65.86	67.07	66.75	67.64	68.49	68.89	68.07	65.11	68.62
83	55.69	56.19	56.93	56.63	58.00	59.42	60.18	59.23	56.22	59.72
84	45.15	44.35	44.05	44.28	47.47	49.92	50.82	50.64	46.71	50.57
85	34.56	32.28	32.39	32.18	35.23	39.51	41.15	41.20	37.91	41.02
86	23.96	20.37	20.72	20.68	24.87	27.73	30.90	32.24	28.30	29.54
87	13.37	8.43	9.18	9.61	14.52	16.29	20.66	22.89	19.42	18.06
88	2.96	4.29	2.08	4.84	4.25	10.87	10.45	10.46	13.00	6.61
89	0.16	0.20	0.17	0.25	0.36	5.52	1.50	5.21	6.57	0.09
90	0.11	0.12	0.13	0.13	0.13	0.17	0.12	0.20	0.15	0.02
91	0.12	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.03	0.02
92	0.13	0.14	0.13	0.13	0.13	0.14	0.13	0.14	0.03	0.03

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CANDELA TABULATION - (Cont.)

93	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.04	0.03
94	0.17	0.17	0.16	0.16	0.17	0.17	0.17	0.17	0.04	0.04
95	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.05	0.05
96	0.22	0.21	0.21	0.21	0.21	0.22	0.22	0.22	0.06	0.05
97	0.25	0.25	0.24	0.24	0.25	0.25	0.25	0.26	0.07	0.06
98	0.28	0.28	0.28	0.28	0.28	0.29	0.30	0.30	0.08	0.08
99	0.33	0.33	0.32	0.33	0.33	0.34	0.34	0.35	0.09	0.09
100	0.38	0.37	0.37	0.37	0.38	0.39	0.39	0.40	0.11	0.11
101	0.43	0.43	0.42	0.43	0.43	0.44	0.45	0.46	0.13	0.13
102	0.49	0.49	0.48	0.49	0.49	0.50	0.51	0.52	0.15	0.15
103	0.56	0.56	0.55	0.56	0.56	0.57	0.58	0.60	0.17	0.17
104	0.63	0.63	0.62	0.63	0.63	0.65	0.66	0.67	0.20	0.19
105	0.70	0.70	0.69	0.70	0.70	0.72	0.73	0.75	0.22	0.22
106	0.76	0.76	0.75	0.76	0.76	0.78	0.79	0.81	0.26	0.25
107	0.83	0.82	0.81	0.82	0.82	0.85	0.86	0.88	0.29	0.29
108	0.89	0.88	0.88	0.88	0.89	0.91	0.93	0.95	0.33	0.33
109	0.96	0.95	0.94	0.95	0.96	0.98	1.00	1.02	0.38	0.37
110	1.02	1.01	1.00	1.01	1.02	1.06	1.08	1.10	0.43	0.42
111	1.09	1.08	1.07	1.08	1.10	1.13	1.16	1.19	0.49	0.48
112	1.17	1.14	1.13	1.14	1.17	1.21	1.24	1.27	0.54	0.53
113	1.24	1.22	1.20	1.22	1.24	1.29	1.33	1.36	0.61	0.60
114	1.32	1.29	1.27	1.29	1.32	1.38	1.42	1.46	0.67	0.67
115	1.41	1.37	1.35	1.38	1.41	1.47	1.51	1.56	0.74	0.74
116	1.50	1.46	1.43	1.47	1.50	1.57	1.61	1.66	0.82	0.81
117	1.61	1.58	1.54	1.58	1.62	1.68	1.71	1.76	0.89	0.89
118	1.71	1.70	1.71	1.71	1.74	1.80	1.82	1.87	0.97	0.97
119	1.83	1.82	1.82	1.83	1.86	1.92	1.94	1.99	1.06	1.06
120	1.95	1.93	1.92	1.95	1.98	2.04	2.07	2.10	1.14	1.15
121	2.07	2.05	2.03	2.07	2.09	2.17	2.20	2.22	1.23	1.24
122	2.19	2.17	2.15	2.19	2.21	2.30	2.34	2.36	1.32	1.33
123	2.31	2.29	2.27	2.32	2.34	2.44	2.49	2.52	1.41	1.42
124	2.44	2.42	2.41	2.46	2.47	2.58	2.65	2.69	1.50	1.51
125	2.58	2.55	2.54	2.60	2.61	2.73	2.81	2.87	1.59	1.60
126	2.72	2.69	2.68	2.75	2.76	2.88	2.97	3.04	1.69	1.69
127	2.87	2.83	2.83	2.89	2.92	3.04	3.14	3.21	1.78	1.79
128	3.03	2.98	2.98	3.05	3.10	3.20	3.31	3.39	1.88	1.88
129	3.19	3.14	3.14	3.23	3.27	3.36	3.49	3.57	1.98	1.98
130	3.36	3.32	3.31	3.40	3.46	3.54	3.68	3.75	2.09	2.09
131	3.54	3.50	3.49	3.57	3.64	3.72	3.86	3.93	2.20	2.20
132	3.71	3.67	3.65	3.74	3.81	3.91	4.03	4.11	2.32	2.32
133	3.88	3.82	3.79	3.90	3.98	4.09	4.20	4.27	2.45	2.45
134	4.02	3.96	3.92	4.05	4.13	4.27	4.37	4.40	2.55	2.56
135	4.15	4.08	4.05	4.18	4.27	4.43	4.51	4.53	2.65	2.67
136	4.26	4.22	4.18	4.31	4.40	4.56	4.65	4.64	2.75	2.77
137	4.36	4.35	4.29	4.44	4.53	4.71	4.79	4.77	2.88	2.87
138	4.51	4.49	4.42	4.58	4.67	4.86	4.93	4.90	3.00	2.98
139	4.67	4.66	4.58	4.71	4.80	5.00	5.06	5.02	3.12	3.10
140	4.80	4.82	4.71	4.84	4.92	5.13	5.19	5.16	3.25	3.21
141	4.95	4.97	4.85	4.99	5.07	5.26	5.34	5.30	3.38	3.33
142	5.10	5.13	5.00	5.14	5.23	5.39	5.49	5.44	3.50	3.46
143	5.25	5.30	5.16	5.31	5.38	5.53	5.65	5.58	3.61	3.60
144	5.40	5.45	5.32	5.48	5.52	5.67	5.81	5.74	3.71	3.74
145	5.55	5.65	5.51	5.65	5.66	5.82	5.95	5.90	3.84	3.88
146	5.71	5.81	5.68	5.81	5.80	5.97	6.08	6.05	3.95	4.00
147	5.88	5.94	5.83	5.95	5.92	6.13	6.22	6.19	4.03	4.09
148	6.02	6.07	5.98	6.08	6.05	6.29	6.35	6.33	4.09	4.16

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

149	6.23	6.23	6.13	6.18	6.21	6.46	6.48	6.46	4.14	4.22
150	6.42	6.38	6.26	6.29	6.37	6.61	6.62	6.58	4.20	4.28
151	6.62	6.52	6.40	6.40	6.55	6.76	6.76	6.70	4.28	4.36
152	6.81	6.66	6.52	6.53	6.71	6.88	6.87	6.82	4.36	4.47
153	6.99	6.77	6.62	6.67	6.91	7.01	6.99	6.94	4.42	4.57
154	7.18	6.88	6.76	6.80	7.09	7.13	7.11	7.07	4.45	4.65
155	7.35	7.01	6.89	6.94	7.25	7.25	7.22	7.16	4.46	4.72
156	7.50	7.16	7.04	7.13	7.40	7.37	7.34	7.23	4.49	4.80
157	7.62	7.32	7.22	7.30	7.53	7.51	7.44	7.33	4.52	4.87
158	7.70	7.47	7.40	7.46	7.62	7.66	7.54	7.43	4.56	4.94
159	7.74	7.60	7.56	7.59	7.70	7.79	7.64	7.53	4.61	5.01
160	7.77	7.68	7.67	7.67	7.76	7.90	7.73	7.62	4.64	5.05
161	7.78	7.71	7.69	7.70	7.80	7.95	7.79	7.67	4.68	5.10
162	7.77	7.72	7.68	7.71	7.80	7.98	7.84	7.69	4.74	5.15
163	7.75	7.71	7.68	7.71	7.81	8.01	7.89	7.70	4.86	5.23
164	7.74	7.73	7.68	7.74	7.84	8.03	7.95	7.72	5.02	5.33
165	7.75	7.74	7.69	7.80	7.90	8.07	8.01	7.77	5.20	5.44
166	7.75	7.72	7.68	7.85	7.96	8.11	8.06	7.79	5.35	5.57
167	7.73	7.69	7.70	7.87	7.99	8.09	8.05	7.76	5.47	5.70
168	7.71	7.65	7.69	7.86	7.97	8.05	8.02	7.69	5.55	5.77
169	7.64	7.56	7.67	7.80	7.92	7.98	7.95	7.58	5.65	5.76
170	7.57	7.49	7.63	7.74	7.85	7.93	7.89	7.51	5.70	5.67
171	7.56	7.50	7.62	7.74	7.85	7.89	7.85	7.48	5.72	5.59
172	7.55	7.53	7.62	7.74	7.83	7.84	7.82	7.51	5.78	5.68
173	7.50	7.50	7.59	7.72	7.78	7.75	7.75	7.48	5.88	5.85
174	7.46	7.50	7.59	7.72	7.76	7.70	7.71	7.42	6.06	6.06
175	7.41	7.48	7.56	7.71	7.73	7.64	7.67	7.34	6.23	6.30
176	7.29	7.39	7.50	7.64	7.66	7.57	7.60	7.28	6.37	6.45
177	7.18	7.29	7.42	7.58	7.59	7.50	7.47	7.23	6.53	6.54
178	7.01	7.14	7.29	7.43	7.43	7.37	7.31	7.13	6.68	6.58
179	6.95	7.09	7.21	7.34	7.34	7.31	7.22	7.08	6.89	6.65
180	7.13	7.13	7.13	7.13	7.13	7.13	7.13	7.13	7.13	7.13

Vert. Angles **Horizontal Angles**

	<u>300</u>	<u>315</u>	<u>330</u>	<u>345</u>	<u>360</u>
0	8365.95	8365.95	8365.95	8365.95	8365.95
1	8374.92	8378.68	8377.83	8378.89	8378.21
2	8383.57	8389.81	8388.58	8389.38	8389.42
3	8396.04	8402.35	8400.29	8402.83	8402.84
4	8408.63	8415.60	8418.10	8415.41	8417.58
5	8418.56	8425.56	8427.86	8431.12	8427.81
6	8435.22	8443.07	8441.53	8445.74	8438.76
7	8445.90	8455.85	8454.71	8456.65	8454.75
8	8458.65	8470.64	8472.86	8473.85	8466.21
9	8472.44	8483.39	8486.80	8488.29	8482.66
10	8484.58	8497.81	8499.17	8504.15	8496.17
11	8497.97	8512.50	8515.98	8517.63	8513.88
12	8511.90	8524.75	8529.32	8535.34	8526.76
13	8526.86	8540.15	8545.76	8547.94	8542.11
14	8537.21	8553.07	8562.13	8562.83	8553.89
15	8553.28	8569.87	8572.78	8576.12	8566.19
16	8566.16	8583.58	8585.43	8590.75	8580.62
17	8578.71	8594.17	8596.91	8604.46	8593.32
18	8594.08	8610.09	8609.17	8617.58	8602.14
19	8602.99	8620.75	8622.14	8628.57	8613.65

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CANDELA TABULATION - (Cont.)

20	8613.39	8628.94	8633.55	8638.79	8625.35
21	8621.70	8635.82	8641.00	8645.32	8630.40
22	8627.60	8646.83	8646.81	8652.48	8634.93
23	8635.93	8653.00	8648.61	8656.59	8642.44
24	8635.68	8653.06	8650.00	8656.75	8641.29
25	8640.08	8654.97	8648.67	8651.90	8638.86
26	8634.69	8650.41	8639.59	8645.75	8630.47
27	8623.39	8640.79	8631.30	8631.45	8621.44
28	8610.64	8622.93	8612.43	8614.54	8601.84
29	8586.34	8599.95	8586.04	8589.96	8578.45
30	8560.44	8568.30	8554.92	8554.59	8545.59
31	8524.83	8528.68	8511.44	8515.27	8502.42
32	8480.96	8479.54	8460.31	8462.08	8452.66
33	8421.86	8421.52	8396.29	8399.41	8388.98
34	8351.21	8346.43	8320.84	8319.05	8314.30
35	8266.52	8260.04	8229.84	8231.48	8223.30
36	8170.10	8159.72	8123.32	8118.84	8118.18
37	8057.52	8035.60	7995.37	7995.07	7989.24
38	7917.79	7895.47	7848.03	7848.13	7843.49
39	7759.13	7731.88	7678.01	7679.77	7679.54
40	7578.16	7543.06	7486.77	7487.27	7481.83
41	7370.63	7328.47	7268.42	7264.73	7260.81
42	7136.45	7086.63	7019.39	7013.84	7005.14
43	6873.12	6813.09	6738.15	6731.66	6723.77
44	6573.89	6511.63	6425.18	6415.45	6404.52
45	6250.43	6176.38	6089.59	6075.88	6064.67
46	5886.66	5810.84	5719.62	5702.20	5685.99
47	5497.91	5415.42	5324.76	5306.45	5286.70
48	5084.93	4997.20	4911.73	4896.67	4873.22
49	4638.63	4562.09	4481.24	4467.39	4436.43
50	4198.09	4120.49	4038.90	4035.97	3999.75
51	3743.77	3682.07	3600.57	3601.26	3564.76
52	3306.19	3247.96	3164.69	3170.15	3133.55
53	2869.86	2819.37	2738.48	2748.28	2712.47
54	2444.44	2422.68	2318.07	2354.23	2299.00
55	2045.59	2026.00	1917.23	1960.17	1909.56
56	1658.89	1629.56	1536.80	1567.24	1536.16
57	1309.16	1280.42	1210.01	1224.49	1196.85
58	1001.23	978.08	920.77	940.96	918.13
59	810.22	734.48	725.71	713.52	726.78
60	620.78	554.34	532.71	552.19	535.86
61	431.34	429.89	421.78	433.31	428.48
62	347.63	349.81	348.92	355.10	354.31
63	299.34	301.60	302.33	303.71	304.11
64	269.72	270.73	271.40	270.68	270.73
65	248.04	249.13	250.01	248.63	246.61
66	230.56	234.38	233.43	234.37	229.05
67	215.85	219.63	219.42	220.12	214.95
68	202.71	204.98	207.44	205.92	203.41
69	191.69	193.81	196.23	195.75	193.91
70	181.19	183.19	186.14	186.35	184.67
71	171.70	173.30	176.60	177.79	177.09
72	162.54	163.44	166.39	168.59	168.91
73	153.56	153.75	156.22	158.44	159.41
74	144.28	144.17	145.97	148.33	150.45
75	134.34	134.21	134.92	137.79	138.40

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CANDELA TABULATION - (Cont.)

76	124.13	124.66	124.13	127.47	126.54
77	114.02	115.12	113.12	117.16	114.66
78	103.99	105.16	102.87	106.20	102.76
79	95.02	95.48	92.77	95.20	92.24
80	84.96	85.72	82.67	84.70	81.75
81	74.89	76.24	72.57	73.83	71.26
82	65.82	66.93	63.13	63.66	61.06
83	56.74	57.59	52.69	52.80	48.27
84	47.29	47.65	40.95	40.09	36.48
85	37.95	37.22	28.78	28.20	24.51
86	28.57	25.69	17.13	16.31	12.24
87	17.24	14.15	11.38	4.55	8.05
88	11.46	2.78	5.79	0.45	4.06
89	5.77	0.04	0.20	0.04	0.06
90	0.09	0.02	0.02	0.02	0.02
91	0.03	0.02	0.02	0.02	0.02
92	0.03	0.03	0.03	0.02	0.03
93	0.03	0.03	0.03	0.03	0.03
94	0.04	0.04	0.04	0.04	0.04
95	0.05	0.05	0.05	0.04	0.05
96	0.06	0.06	0.06	0.06	0.06
97	0.07	0.07	0.07	0.07	0.07
98	0.08	0.08	0.09	0.08	0.08
99	0.10	0.10	0.10	0.10	0.10
100	0.11	0.11	0.12	0.11	0.12
101	0.13	0.13	0.14	0.13	0.14
102	0.16	0.16	0.16	0.16	0.16
103	0.18	0.18	0.19	0.18	0.19
104	0.20	0.20	0.21	0.21	0.21
105	0.23	0.23	0.24	0.23	0.24
106	0.26	0.26	0.27	0.26	0.27
107	0.30	0.30	0.31	0.30	0.30
108	0.34	0.34	0.35	0.34	0.34
109	0.39	0.39	0.39	0.38	0.38
110	0.44	0.44	0.44	0.43	0.42
111	0.49	0.49	0.49	0.47	0.47
112	0.55	0.54	0.54	0.53	0.52
113	0.61	0.61	0.60	0.58	0.58
114	0.68	0.67	0.66	0.65	0.64
115	0.75	0.74	0.73	0.71	0.70
116	0.83	0.81	0.80	0.78	0.77
117	0.91	0.89	0.88	0.85	0.84
118	0.99	0.97	0.96	0.94	0.92
119	1.08	1.05	1.05	1.01	1.00
120	1.16	1.14	1.14	1.10	1.09
121	1.25	1.22	1.23	1.18	1.17
122	1.34	1.31	1.32	1.26	1.27
123	1.43	1.40	1.41	1.35	1.36
124	1.51	1.49	1.51	1.44	1.45
125	1.60	1.57	1.60	1.53	1.55
126	1.69	1.67	1.69	1.62	1.64
127	1.79	1.76	1.79	1.73	1.74
128	1.89	1.85	1.89	1.84	1.83
129	1.99	1.94	1.99	1.95	1.95
130	2.10	2.04	2.09	2.07	2.07
131	2.21	2.14	2.19	2.19	2.20

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

132	2.31	2.24	2.30	2.31	2.33
133	2.42	2.36	2.41	2.44	2.47
134	2.53	2.48	2.51	2.57	2.61
135	2.63	2.61	2.60	2.68	2.73
136	2.74	2.73	2.70	2.80	2.85
137	2.84	2.86	2.82	2.93	2.98
138	2.96	3.00	2.93	3.05	3.11
139	3.08	3.12	3.05	3.17	3.25
140	3.21	3.24	3.17	3.29	3.37
141	3.34	3.35	3.30	3.41	3.49
142	3.48	3.46	3.43	3.54	3.60
143	3.64	3.57	3.55	3.66	3.71
144	3.76	3.68	3.68	3.79	3.82
145	3.86	3.81	3.79	3.91	3.94
146	3.95	3.94	3.90	4.03	4.06
147	4.03	4.06	4.01	4.13	4.17
148	4.10	4.17	4.11	4.23	4.27
149	4.19	4.28	4.23	4.32	4.37
150	4.29	4.39	4.37	4.40	4.47
151	4.41	4.50	4.52	4.49	4.59
152	4.52	4.61	4.69	4.58	4.70
153	4.62	4.71	4.84	4.66	4.79
154	4.71	4.79	4.97	4.73	4.87
155	4.80	4.87	5.09	4.86	4.95
156	4.88	4.96	5.18	4.99	5.05
157	4.96	5.07	5.26	5.11	5.15
158	5.03	5.17	5.31	5.23	5.25
159	5.09	5.27	5.35	5.29	5.34
160	5.17	5.37	5.37	5.32	5.38
161	5.24	5.44	5.39	5.35	5.40
162	5.30	5.49	5.40	5.38	5.40
163	5.40	5.55	5.44	5.44	5.44
164	5.52	5.61	5.51	5.52	5.51
165	5.63	5.69	5.61	5.62	5.58
166	5.76	5.80	5.73	5.76	5.67
167	5.84	5.86	5.82	5.86	5.79
168	5.91	5.89	5.89	5.94	5.87
169	5.92	5.92	5.93	5.98	5.96
170	5.87	5.90	5.90	5.96	5.98
171	5.86	5.87	5.87	5.94	5.97
172	5.93	5.92	5.93	6.00	6.03
173	6.06	6.04	6.05	6.14	6.17
174	6.26	6.28	6.29	6.39	6.45
175	6.50	6.51	6.55	6.66	6.73
176	6.67	6.61	6.70	6.84	6.88
177	6.77	6.72	6.79	6.92	6.98
178	6.80	6.79	6.81	6.94	7.00
179	6.77	6.84	6.85	7.00	7.05
180	7.13	7.13	7.13	7.13	7.13

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3194.44	16.30	16.30
0-30	7129.13	36.50	36.50
0-40	12266.31	62.70	62.70
0-60	19062.58	97.50	97.50
0-80	19498.84	99.70	99.70
0-90	19538.37	99.90	99.90
10-90	18737.96	95.80	95.80
20-40	9071.87	46.40	46.40
20-50	13868.02	70.90	70.90
40-70	7090.59	36.30	36.30
60-80	436.25	2.20	2.20
70-80	141.95	0.70	0.70
80-90	39.53	0.20	0.20
90-110	0.65	0.00	0.00
90-120	1.76	0.00	0.00
90-130	3.68	0.00	0.00
90-150	9.35	0.00	0.00
90-180	14.62	0.10	0.10
110-180	13.97	0.10	0.10
0-180	19553.00	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	800.42
10-20	2394.02
20-30	3934.7
30-40	5137.17
40-50	4796.15
50-60	2000.13
60-70	294.31
70-80	141.95
80-90	39.53
90-100	0.15
100-110	0.51
110-120	1.10
120-130	1.92
130-140	2.68
140-150	3.00
150-160	2.75
160-170	1.87
170-180	0.65

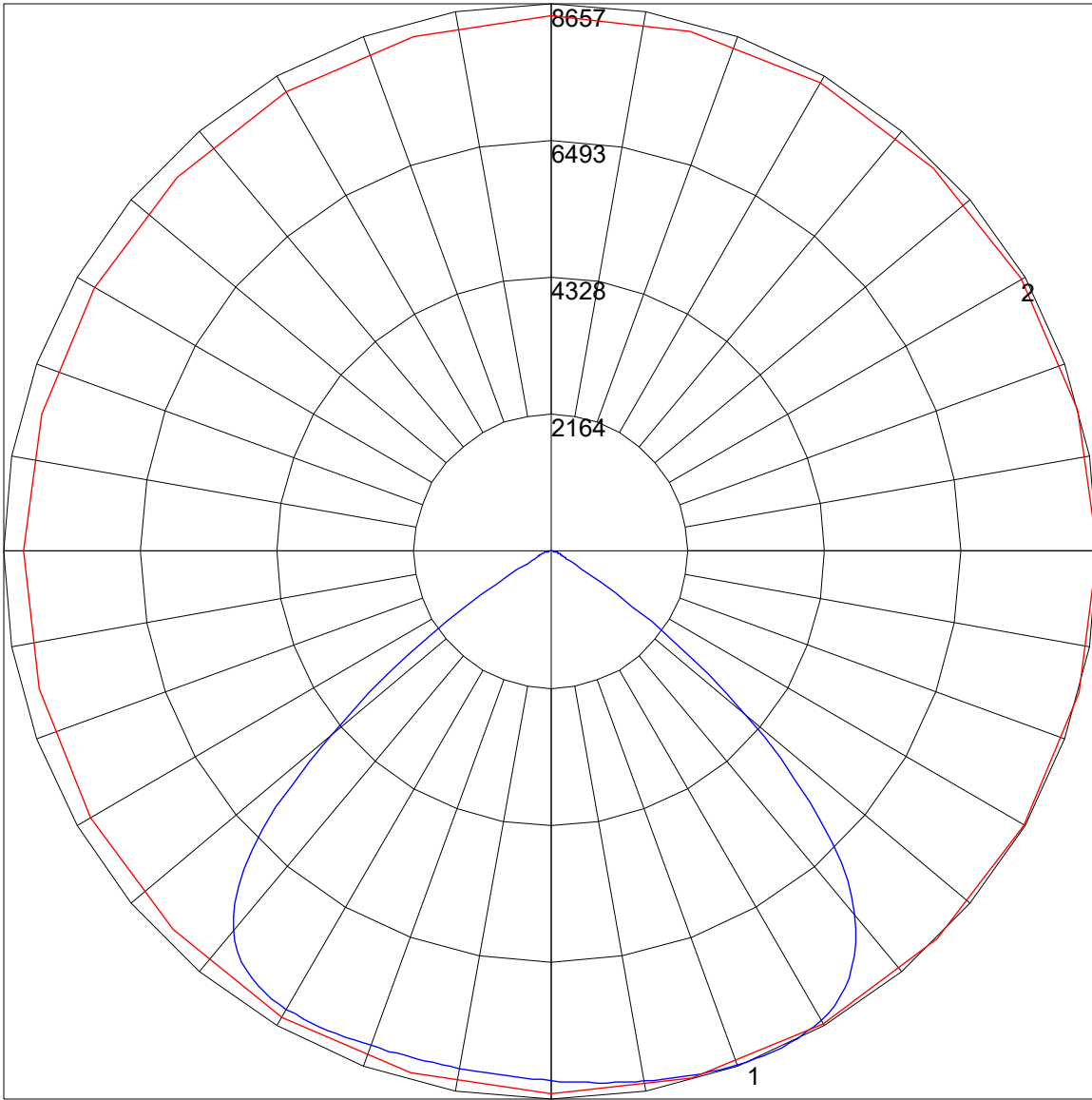
IES INDOOR REPORT
PHOTOMETRIC FILENAME : HBRMSR-LED135DMV50.IES

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
1	112	108	105	102	109	106	103	101	102	100	97	98	96	94	95	93	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70
4	90	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	57	66	61	57	55
6	77	66	58	52	75	65	57	52	63	57	52	61	56	51	60	55	51	49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44
8	67	55	47	42	66	54	47	42	53	46	42	52	46	41	51	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36
10	59	47	39	34	58	46	39	34	45	39	34	44	38	34	43	38	34	32

POLAR GRAPH



Maximum Candela = 8656.75 Located At Horizontal Angle = 345, Vertical Angle = 24
1 - Vertical Plane Through Horizontal Angles (345 - 165) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (24) (Through Max. Cd.)