



Photometric Toolbox™

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HBRMSR-LED135DMV40.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 08:58:06

[NEARFIELD]

[LAMPPOSITION] 0,0

[OTHER] EVERFINE GO-R5000_V2 SYSTEM

[MANUFAC] Mobern Lighting Co.

[LUMCAT] HBRMSR-LED135DMV40

[MORE]MHB04

[LUMINAIRE] LED

[BALLAST] 120-277Vac,60Hz

[OTHER]

[OTHER]	Gamma(deg)	Fz(lm)	Ft(lm)	%Lum	%Lamp
[OTHER]	0- 10	771.16	771.16	3.97	3.97
[OTHER]	10- 20	2322.00	3093.15	15.93	15.93
[OTHER]	20- 30	3857.47	6950.63	35.80	35.80
[OTHER]	30- 40	5106.35	12056.98	62.10	62.10
[OTHER]	40- 50	4836.98	16893.96	87.01	87.01
[OTHER]	50- 60	2062.26	18956.23	97.63	97.63
[OTHER]	60- 70	276.75	19232.97	99.06	99.06
[OTHER]	70- 80	131.58	19364.56	99.73	99.73
[OTHER]	80- 90	37.10	19401.66	99.93	99.93
[OTHER]	90-100	0.14	19401.80	99.93	99.93
[OTHER]	100-110	0.52	19402.32	99.93	99.93
[OTHER]	110-120	1.12	19403.44	99.93	99.93
[OTHER]	120-130	1.92	19405.36	99.94	99.94
[OTHER]	130-140	2.66	19408.02	99.96	99.96
[OTHER]	140-150	2.96	19410.98	99.97	99.97
[OTHER]	150-160	2.70	19413.68	99.99	99.99
[OTHER]	160-170	1.84	19415.52	100.00	100.00
[OTHER]	170-180	0.64	19416.16	100.00	100.00
[OTHER]					

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CHARACTERISTICS

Lumens Per Lamp	19416 (1 lamp)
Total Lamp Lumens	19416
Luminaire Lumens	19416
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	143
Total Luminaire Watts	135.509
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	92054	92905	95648
55	37865	38944	42133
65	5394	5557	5856
75	4853	4956	5191
85	2553	3743	4625

CANDELA TABULATION

	0	15	30	45	60	75	90	105	120	135
0	8039.06	8039.06	8039.06	8039.06	8039.06	8039.06	8039.06	8039.06	8039.06	8039.06
1	8048.01	8049.93	8046.06	8045.59	8049.15	8047.53	8041.52	8042.82	8042.09	8037.70
2	8055.94	8063.89	8053.38	8058.13	8054.27	8052.81	8045.97	8045.19	8044.17	8038.36
3	8065.26	8072.11	8064.09	8067.16	8066.76	8058.99	8056.16	8050.38	8048.17	8040.44
4	8075.20	8083.14	8080.36	8078.03	8081.38	8072.62	8065.63	8058.84	8056.57	8043.81
5	8088.63	8098.68	8093.15	8093.54	8090.95	8086.92	8076.75	8069.53	8060.51	8050.29
6	8107.00	8113.62	8107.90	8109.57	8105.26	8095.95	8082.81	8080.33	8071.85	8056.54
7	8119.29	8130.13	8123.88	8123.67	8121.34	8111.04	8099.61	8091.42	8083.15	8063.45
8	8135.39	8146.10	8138.16	8143.96	8140.35	8126.60	8111.47	8101.07	8092.26	8073.11
9	8154.92	8165.95	8161.51	8158.84	8153.16	8143.80	8128.11	8115.88	8103.90	8079.93
10	8171.57	8181.71	8177.94	8179.75	8171.08	8160.43	8141.42	8128.45	8114.78	8089.44
11	8189.52	8199.92	8195.60	8197.00	8191.18	8178.68	8158.14	8144.75	8124.35	8096.96
12	8204.09	8217.52	8215.45	8217.65	8211.64	8194.05	8175.87	8157.30	8140.00	8108.70
13	8226.37	8238.75	8235.80	8234.07	8229.18	8209.76	8192.12	8173.14	8152.82	8122.21
14	8245.90	8256.26	8256.79	8252.69	8250.17	8228.45	8207.32	8188.50	8169.17	8136.11
15	8265.69	8278.13	8276.01	8274.54	8266.13	8250.88	8226.34	8205.27	8179.30	8150.66
16	8284.55	8297.11	8298.41	8295.07	8288.62	8266.25	8246.37	8221.04	8196.54	8166.64
17	8304.61	8318.87	8319.01	8314.39	8307.25	8284.78	8259.91	8239.01	8212.44	8181.74
18	8323.36	8335.49	8335.16	8335.36	8324.44	8305.75	8283.33	8258.42	8230.89	8198.31
19	8339.97	8353.90	8355.76	8356.82	8346.33	8325.03	8302.23	8271.41	8247.65	8211.61
20	8357.18	8379.05	8374.48	8375.35	8364.44	8343.95	8315.64	8290.25	8262.85	8226.79
21	8377.42	8391.98	8391.30	8393.03	8382.32	8360.01	8337.01	8305.89	8281.06	8244.91
22	8395.87	8409.44	8417.87	8413.90	8402.30	8381.29	8354.36	8324.40	8297.16	8260.53
23	8411.36	8426.04	8430.60	8430.12	8421.55	8396.45	8367.80	8345.67	8313.36	8279.06
24	8428.57	8442.81	8444.91	8446.99	8435.38	8416.27	8387.20	8356.77	8329.54	8292.89
25	8439.60	8457.56	8456.29	8459.72	8446.20	8428.74	8402.25	8371.63	8343.90	8306.49
26	8448.78	8464.38	8464.25	8467.98	8455.42	8439.19	8413.50	8382.98	8354.52	8320.48
27	8451.35	8465.73	8466.76	8473.36	8462.10	8446.93	8424.05	8389.05	8364.17	8326.82
28	8449.03	8466.00	8468.18	8473.94	8464.23	8445.38	8431.04	8395.69	8370.27	8333.96
29	8446.96	8461.40	8462.84	8467.35	8461.51	8447.78	8431.31	8396.03	8370.52	8335.73
30	8433.94	8443.90	8446.87	8452.79	8451.71	8439.11	8424.42	8392.35	8363.67	8330.03
31	8412.45	8421.42	8428.39	8433.07	8428.59	8423.48	8411.41	8378.97	8358.37	8325.43
32	8376.62	8393.72	8394.68	8400.15	8399.62	8396.95	8389.79	8355.62	8337.91	8305.75
33	8335.85	8351.48	8354.82	8362.60	8361.72	8357.50	8359.02	8325.63	8312.96	8284.67
34	8285.88	8299.70	8301.93	8310.27	8311.50	8312.64	8317.33	8281.61	8273.35	8244.09
35	8211.55	8228.45	8234.74	8242.78	8243.79	8250.17	8264.28	8228.47	8225.91	8201.00
36	8134.46	8146.68	8152.49	8159.27	8164.35	8171.59	8193.92	8162.14	8162.40	8140.42
37	8029.62	8046.00	8047.40	8058.04	8060.44	8076.51	8110.22	8074.37	8081.85	8061.70
38	7912.00	7921.26	7922.18	7941.46	7946.39	7960.04	8003.22	7963.53	7980.13	7963.00
39	7762.56	7776.94	7777.73	7801.30	7801.21	7824.28	7877.62	7835.20	7859.46	7844.80
40	7592.39	7607.22	7607.37	7632.77	7634.59	7663.49	7724.93	7683.34	7710.90	7703.00
41	7397.18	7410.50	7412.75	7441.06	7439.60	7475.39	7547.69	7501.55	7534.07	7530.69
42	7168.47	7180.91	7188.37	7210.92	7214.69	7253.84	7338.97	7286.03	7325.41	7326.62
43	6901.66	6921.66	6930.11	6950.91	6954.79	7001.28	7102.02	7038.16	7086.04	7088.34
44	6599.17	6621.05	6631.61	6656.40	6660.45	6700.54	6819.80	6753.69	6811.42	6820.08
45	6265.25	6288.32	6299.21	6323.18	6329.96	6373.57	6509.86	6430.30	6497.50	6502.83
46	5888.78	5915.01	5929.60	5950.72	5956.57	5999.90	6157.30	6066.35	6138.23	6148.85
47	5484.26	5509.42	5531.27	5549.52	5556.34	5598.13	5770.22	5665.30	5750.43	5757.44
48	5068.86	5094.18	5110.62	5133.43	5133.62	5181.75	5353.69	5250.57	5329.31	5337.23
49	4635.71	4660.21	4675.49	4700.90	4706.42	4747.40	4924.29	4809.17	4897.34	4900.45
50	4197.04	4227.50	4232.93	4264.72	4267.38	4308.89	4477.57	4374.33	4454.33	4470.21
51	3763.79	3790.37	3792.04	3825.72	3826.88	3872.89	4037.52	3939.26	4015.81	4032.08
52	3332.07	3360.34	3351.21	3391.73	3396.64	3440.88	3592.11	3501.61	3581.48	3598.20
53	2916.58	2938.81	2925.42	2965.74	2969.01	3016.64	3155.88	3080.99	3149.97	3166.48

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CANDELA TABULATION - (Cont.)

54	2497.80	2513.79	2502.52	2542.19	2540.06	2592.61	2732.44	2646.94	2732.38	2744.07
55	2090.46	2116.60	2096.24	2150.00	2127.68	2194.66	2326.06	2228.62	2326.74	2320.27
56	1688.17	1719.99	1691.56	1757.81	1719.29	1796.71	1919.68	1811.74	1921.09	1900.15
57	1329.53	1354.51	1327.95	1365.63	1354.16	1400.94	1513.89	1425.90	1515.61	1519.29
58	1009.62	1034.89	1008.66	1044.94	1036.18	1076.35	1159.91	1080.65	1165.10	1161.84
59	802.07	757.86	799.93	769.43	822.05	797.87	862.32	859.89	862.86	927.87
60	597.96	542.86	592.37	552.35	609.88	576.99	630.93	642.22	630.25	696.95
61	393.85	394.84	384.81	400.98	397.71	418.98	461.87	424.54	463.80	466.04
62	305.86	307.83	304.87	312.02	313.11	324.35	352.51	332.82	359.20	355.28
63	261.89	262.29	263.54	267.16	270.21	275.52	292.54	281.38	297.73	294.38
64	237.26	243.45	239.60	242.67	245.46	249.42	259.52	252.00	262.11	257.67
65	219.40	224.61	222.25	226.03	226.91	233.55	238.19	231.45	238.67	233.56
66	205.13	205.91	207.52	209.48	212.00	217.68	221.56	215.92	222.25	216.09
67	193.12	194.51	195.24	197.57	199.51	201.88	205.04	202.64	205.88	202.24
68	182.73	184.39	184.66	187.18	188.59	190.50	192.54	191.48	193.70	190.93
69	173.73	175.17	175.41	177.75	178.83	180.65	182.14	181.17	183.11	180.91
70	165.35	167.03	167.28	169.31	169.94	171.31	172.73	171.33	173.10	171.58
71	157.23	158.95	159.42	160.99	161.24	162.70	164.00	162.19	163.98	163.34
72	148.39	150.16	151.89	152.17	151.70	153.65	155.82	153.49	154.97	154.97
73	139.55	141.31	142.95	142.70	142.52	144.16	147.39	144.39	145.70	146.07
74	130.52	131.96	133.58	132.81	132.86	134.78	138.78	135.38	136.61	137.05
75	120.90	123.01	123.20	123.47	122.67	125.08	129.31	126.02	126.93	127.63
76	111.66	113.69	112.88	113.88	112.87	115.87	119.73	116.94	117.37	118.18
77	101.88	104.52	103.08	104.62	103.31	106.86	109.95	108.13	107.77	109.20
78	92.32	95.24	93.57	95.36	94.22	97.69	100.67	98.95	98.01	100.01
79	82.77	85.57	84.07	86.60	85.13	89.00	91.01	89.91	88.96	90.94
80	73.21	75.49	74.56	77.76	76.05	80.11	82.46	80.86	80.04	81.86
81	64.38	66.18	65.59	69.04	67.92	71.46	73.66	71.82	71.70	72.79
82	54.84	56.86	56.88	60.09	59.58	62.86	65.39	63.25	63.54	64.28
83	42.56	46.00	47.16	51.46	50.57	54.44	56.66	54.78	55.15	55.74
84	31.68	34.17	35.27	41.80	41.69	45.65	47.50	46.06	46.04	46.73
85	21.42	24.06	24.13	31.40	32.72	36.39	38.80	37.14	37.54	36.84
86	10.61	13.95	14.90	21.01	22.92	25.91	28.52	28.38	27.50	26.35
87	5.41	3.99	9.92	10.64	13.39	15.43	18.24	19.45	17.46	13.63
88	0.34	0.39	4.99	2.24	8.97	5.05	8.04	12.99	7.48	9.07
89	0.04	0.05	0.07	0.05	4.56	0.03	0.29	6.55	0.34	4.62
90	0.02	0.01	0.02	0.01	0.15	0.01	0.11	0.11	0.10	0.18
91	0.02	0.02	0.02	0.02	0.02	0.02	0.12	0.12	0.11	0.11
92	0.02	0.02	0.02	0.02	0.02	0.02	0.13	0.13	0.13	0.13
93	0.03	0.02	0.02	0.03	0.03	0.02	0.15	0.15	0.14	0.14
94	0.03	0.03	0.03	0.03	0.03	0.03	0.17	0.17	0.16	0.16
95	0.04	0.04	0.04	0.04	0.04	0.04	0.19	0.20	0.19	0.19
96	0.05	0.05	0.05	0.06	0.05	0.05	0.23	0.23	0.22	0.22
97	0.06	0.06	0.06	0.07	0.08	0.06	0.26	0.27	0.26	0.26
98	0.08	0.07	0.08	0.08	0.09	0.08	0.31	0.31	0.30	0.30
99	0.09	0.09	0.09	0.10	0.10	0.09	0.36	0.36	0.35	0.35
100	0.11	0.11	0.11	0.11	0.12	0.11	0.41	0.42	0.40	0.40
101	0.13	0.13	0.13	0.13	0.14	0.13	0.47	0.48	0.46	0.46
102	0.16	0.16	0.16	0.16	0.16	0.15	0.54	0.55	0.53	0.53
103	0.18	0.18	0.18	0.18	0.18	0.18	0.62	0.63	0.60	0.60
104	0.21	0.20	0.20	0.20	0.21	0.20	0.70	0.71	0.68	0.68
105	0.23	0.23	0.23	0.23	0.24	0.23	0.78	0.78	0.76	0.75
106	0.26	0.26	0.26	0.26	0.27	0.26	0.85	0.85	0.83	0.83
107	0.30	0.29	0.29	0.29	0.30	0.29	0.92	0.92	0.90	0.89
108	0.33	0.33	0.33	0.33	0.34	0.34	1.00	1.00	0.97	0.96
109	0.37	0.37	0.37	0.37	0.38	0.38	1.08	1.08	1.05	1.04

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110	0.42	0.41	0.42	0.41	0.43	0.43	1.16	1.16	1.13	1.12
111	0.47	0.45	0.46	0.46	0.47	0.48	1.24	1.24	1.21	1.19
112	0.52	0.49	0.51	0.51	0.52	0.54	1.33	1.33	1.30	1.28
113	0.57	0.53	0.57	0.57	0.57	0.60	1.42	1.42	1.39	1.36
114	0.63	0.59	0.63	0.63	0.64	0.66	1.52	1.52	1.48	1.44
115	0.69	0.65	0.69	0.69	0.71	0.73	1.61	1.62	1.57	1.53
116	0.76	0.73	0.76	0.76	0.79	0.80	1.71	1.71	1.67	1.62
117	0.84	0.80	0.83	0.84	0.88	0.87	1.82	1.82	1.77	1.72
118	0.91	0.88	0.91	0.91	0.96	0.94	1.92	1.93	1.87	1.83
119	0.99	0.96	0.99	0.99	1.05	1.01	2.03	2.04	1.98	1.95
120	1.08	1.04	1.08	1.08	1.13	1.08	2.14	2.15	2.11	2.06
121	1.17	1.13	1.16	1.17	1.23	1.15	2.26	2.27	2.23	2.17
122	1.26	1.22	1.25	1.25	1.32	1.22	2.38	2.39	2.36	2.28
123	1.35	1.31	1.34	1.34	1.42	1.30	2.51	2.55	2.48	2.40
124	1.44	1.40	1.42	1.44	1.52	1.40	2.65	2.69	2.60	2.54
125	1.54	1.50	1.52	1.53	1.62	1.51	2.85	2.86	2.75	2.67
126	1.63	1.59	1.62	1.62	1.72	1.63	3.05	3.02	2.90	2.83
127	1.72	1.68	1.72	1.71	1.83	1.75	3.23	3.19	3.06	2.98
128	1.82	1.79	1.83	1.80	1.94	1.88	3.40	3.36	3.23	3.13
129	1.93	1.90	1.95	1.89	2.05	2.00	3.56	3.52	3.39	3.28
130	2.05	2.02	2.07	1.99	2.16	2.12	3.71	3.67	3.56	3.44
131	2.18	2.14	2.18	2.09	2.26	2.24	3.87	3.83	3.71	3.59
132	2.31	2.27	2.28	2.19	2.36	2.37	4.03	3.98	3.86	3.74
133	2.45	2.41	2.39	2.28	2.45	2.50	4.18	4.12	3.98	3.88
134	2.58	2.55	2.50	2.37	2.54	2.62	4.32	4.27	4.11	4.03
135	2.70	2.68	2.62	2.46	2.63	2.73	4.44	4.41	4.23	4.16
136	2.82	2.81	2.75	2.60	2.75	2.83	4.56	4.54	4.37	4.30
137	2.95	2.95	2.87	2.77	2.88	2.95	4.66	4.64	4.51	4.44
138	3.08	3.10	2.98	2.96	3.02	3.08	4.78	4.75	4.64	4.58
139	3.21	3.25	3.10	3.11	3.14	3.21	4.91	4.85	4.78	4.74
140	3.34	3.39	3.24	3.23	3.26	3.33	5.04	4.96	4.92	4.86
141	3.45	3.53	3.39	3.33	3.38	3.44	5.18	5.09	5.06	5.01
142	3.56	3.66	3.53	3.43	3.52	3.54	5.33	5.20	5.22	5.15
143	3.67	3.79	3.67	3.55	3.66	3.64	5.47	5.30	5.38	5.28
144	3.78	3.92	3.82	3.67	3.79	3.73	5.64	5.42	5.52	5.42
145	3.90	4.04	3.95	3.80	3.91	3.83	5.78	5.58	5.64	5.57
146	4.01	4.17	4.08	3.92	4.00	3.93	5.93	5.78	5.78	5.72
147	4.12	4.29	4.17	4.04	4.05	4.04	6.08	5.99	5.91	5.88
148	4.22	4.39	4.27	4.15	4.09	4.14	6.24	6.18	6.02	6.05
149	4.32	4.48	4.38	4.26	4.13	4.23	6.37	6.32	6.13	6.22
150	4.42	4.58	4.51	4.35	4.18	4.30	6.45	6.44	6.26	6.39
151	4.54	4.69	4.65	4.44	4.25	4.35	6.50	6.54	6.36	6.52
152	4.65	4.81	4.79	4.52	4.33	4.40	6.60	6.63	6.49	6.63
153	4.74	4.90	4.92	4.59	4.41	4.47	6.71	6.74	6.66	6.74
154	4.82	4.99	5.02	4.64	4.50	4.55	6.80	6.86	6.82	6.84
155	4.89	5.09	5.11	4.70	4.58	4.62	6.86	6.97	6.94	6.95
156	4.99	5.18	5.20	4.75	4.63	4.67	6.91	7.04	7.06	7.03
157	5.09	5.26	5.26	4.82	4.66	4.70	6.97	7.08	7.13	7.11
158	5.19	5.34	5.29	4.91	4.72	4.71	7.04	7.13	7.19	7.19
159	5.28	5.41	5.30	5.00	4.76	4.72	7.11	7.22	7.25	7.28
160	5.31	5.43	5.31	5.08	4.80	4.74	7.19	7.27	7.31	7.39
161	5.33	5.46	5.33	5.16	4.85	4.77	7.22	7.28	7.35	7.47
162	5.34	5.47	5.36	5.23	4.91	4.81	7.25	7.26	7.37	7.48
163	5.37	5.53	5.42	5.32	4.98	4.91	7.29	7.24	7.37	7.47
164	5.44	5.61	5.49	5.42	5.09	5.03	7.38	7.28	7.38	7.46
165	5.51	5.69	5.58	5.53	5.22	5.19	7.45	7.37	7.39	7.46

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CANDELA TABULATION - (Cont.)

166	5.59	5.80	5.70	5.67	5.37	5.34	7.50	7.44	7.40	7.47
167	5.70	5.89	5.81	5.78	5.48	5.44	7.50	7.40	7.36	7.44
168	5.78	5.97	5.90	5.84	5.51	5.49	7.49	7.36	7.28	7.39
169	5.86	6.03	5.98	5.91	5.52	5.52	7.44	7.35	7.20	7.38
170	5.88	6.02	5.99	5.94	5.50	5.55	7.38	7.36	7.06	7.29
171	5.87	6.01	5.98	5.94	5.51	5.59	7.32	7.39	7.03	7.30
172	5.94	6.08	6.04	6.03	5.63	5.68	7.23	7.40	7.07	7.31
173	6.08	6.23	6.17	6.17	5.77	5.81	7.11	7.36	7.03	7.28
174	6.35	6.49	6.44	6.43	6.06	6.07	7.01	7.29	7.01	7.26
175	6.62	6.77	6.72	6.69	6.36	6.32	7.01	7.18	6.97	7.24
176	6.76	6.98	6.87	6.85	6.54	6.52	7.03	7.07	6.92	7.15
177	6.86	7.06	6.99	6.97	6.67	6.68	7.03	6.96	6.89	7.07
178	6.89	7.07	7.03	7.02	6.78	6.78	6.93	6.76	6.80	6.93
179	6.93	7.10	7.08	7.07	6.86	6.85	6.91	6.68	6.78	6.85
180	7.01	7.01	7.01	7.01	7.01	7.01	7.01	7.01	7.01	7.01

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	8039.06	8039.06	8039.06	8039.06	8039.06	8039.06	8039.06	8039.06	8039.06	8039.06
1	8035.28	8031.73	8031.90	8035.07	8032.65	8035.64	8039.03	8036.77	8038.98	8039.44
2	8034.71	8027.40	8031.53	8032.27	8030.92	8032.80	8036.90	8037.39	8036.63	8041.45
3	8039.43	8027.67	8029.18	8032.56	8030.57	8027.07	8033.52	8036.06	8040.57	8041.82
4	8040.14	8027.68	8030.20	8031.54	8028.84	8027.90	8034.24	8037.69	8041.71	8047.74
5	8044.03	8029.34	8030.90	8032.21	8027.85	8029.63	8035.64	8040.12	8049.08	8053.15
6	8050.52	8033.46	8032.94	8031.89	8028.86	8029.99	8040.11	8046.70	8054.34	8062.21
7	8053.48	8037.99	8032.74	8034.98	8029.30	8035.82	8040.47	8047.45	8058.11	8069.95
8	8063.31	8040.68	8037.89	8038.39	8033.36	8040.03	8043.98	8051.54	8066.69	8074.50
9	8067.76	8047.53	8042.99	8043.49	8037.63	8043.80	8053.34	8057.95	8071.72	8084.15
10	8073.65	8054.16	8045.25	8047.70	8043.25	8049.36	8057.61	8066.96	8082.06	8096.86
11	8083.88	8060.27	8053.67	8051.89	8049.98	8054.13	8064.46	8074.72	8092.23	8107.33
12	8095.42	8070.71	8060.95	8060.55	8051.52	8060.75	8071.77	8080.91	8098.36	8118.22
13	8104.88	8080.61	8071.49	8066.76	8058.04	8068.56	8083.91	8091.32	8112.25	8133.51
14	8116.92	8092.11	8079.53	8075.39	8068.52	8077.31	8089.46	8105.28	8124.93	8144.34
15	8127.94	8102.32	8087.34	8084.81	8078.34	8082.64	8102.68	8113.93	8138.07	8159.81
16	8145.27	8113.17	8102.77	8091.96	8088.46	8096.22	8112.93	8130.19	8153.62	8173.88
17	8157.88	8128.32	8111.73	8107.61	8096.61	8104.71	8127.01	8139.17	8167.51	8189.00
18	8172.01	8141.28	8124.76	8116.33	8112.94	8119.63	8138.92	8157.00	8182.45	8209.36
19	8186.46	8155.77	8134.08	8129.70	8123.02	8132.03	8151.64	8172.24	8198.69	8223.59
20	8201.75	8166.89	8146.54	8144.70	8138.58	8145.95	8164.62	8183.46	8212.83	8238.03
21	8217.22	8183.13	8164.99	8154.38	8151.64	8161.32	8176.33	8197.48	8227.30	8255.87
22	8233.06	8196.79	8178.57	8170.15	8166.76	8176.43	8194.62	8215.43	8243.13	8273.65
23	8247.90	8214.00	8195.74	8184.82	8183.92	8193.41	8209.29	8230.61	8259.30	8289.21
24	8262.15	8226.35	8211.56	8202.42	8199.18	8206.13	8222.44	8244.62	8274.73	8309.35
25	8278.92	8240.97	8226.29	8215.27	8210.10	8220.47	8234.68	8261.83	8289.64	8322.73
26	8290.68	8256.76	8236.85	8229.24	8222.73	8231.10	8250.29	8273.94	8300.38	8335.23
27	8301.33	8266.32	8249.08	8241.22	8235.21	8239.83	8261.66	8279.40	8310.33	8347.03
28	8311.89	8274.92	8255.82	8249.76	8242.78	8250.44	8270.55	8291.96	8313.57	8349.40
29	8316.31	8278.95	8259.94	8252.76	8251.66	8256.84	8278.75	8291.66	8318.62	8349.74
30	8315.23	8279.65	8257.16	8255.82	8252.31	8256.53	8274.24	8292.99	8311.88	8344.84
31	8308.69	8276.68	8256.00	8251.75	8246.73	8254.79	8269.96	8285.31	8302.74	8334.90
32	8295.95	8263.28	8249.85	8243.60	8239.42	8247.65	8260.05	8272.39	8286.36	8315.73
33	8271.26	8243.57	8226.63	8228.02	8220.37	8228.31	8239.62	8251.18	8259.30	8286.60
34	8238.49	8216.78	8201.51	8203.27	8194.31	8199.26	8213.59	8221.18	8219.85	8247.96
35	8197.05	8179.88	8162.72	8161.61	8158.32	8159.60	8171.81	8179.03	8168.95	8197.13
36	8143.28	8127.02	8117.10	8115.76	8112.13	8108.48	8115.93	8120.05	8105.57	8134.00

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CANDELA TABULATION - (Cont.)

37	8069.09	8053.05	8047.48	8045.32	8046.42	8037.41	8050.42	8044.84	8021.91	8046.25
38	7978.36	7968.31	7962.18	7964.02	7961.38	7958.07	7961.71	7954.63	7919.91	7943.91
39	7862.08	7860.46	7863.35	7859.13	7861.24	7846.25	7853.12	7837.92	7790.97	7816.66
40	7728.73	7726.77	7729.29	7733.35	7728.88	7723.27	7715.94	7696.16	7639.99	7662.04
41	7562.46	7561.97	7575.17	7578.38	7578.84	7564.39	7557.94	7526.77	7456.99	7488.28
42	7367.01	7374.89	7392.08	7393.77	7392.37	7381.80	7372.77	7327.58	7246.84	7275.25
43	7144.27	7152.71	7176.37	7177.98	7180.71	7162.89	7144.78	7096.02	6995.17	7025.86
44	6880.74	6894.87	6916.96	6921.05	6927.11	6901.45	6884.47	6826.85	6708.47	6737.58
45	6582.88	6594.25	6618.48	6623.94	6631.74	6599.88	6576.11	6510.25	6377.37	6408.97
46	6250.04	6253.34	6278.64	6288.57	6298.70	6254.21	6226.17	6157.91	6002.97	6038.90
47	5869.25	5877.76	5902.46	5901.70	5918.74	5872.73	5832.20	5756.76	5591.72	5628.17
48	5459.98	5458.95	5487.16	5485.51	5504.89	5447.16	5408.42	5331.17	5154.94	5197.45
49	5028.29	5018.02	5046.73	5038.11	5059.12	5004.32	4965.92	4886.31	4708.03	4746.11
50	4574.52	4571.40	4593.86	4594.50	4606.46	4548.58	4506.51	4434.47	4255.09	4300.90
51	4125.62	4117.95	4139.34	4142.82	4150.03	4091.19	4055.27	3991.56	3807.15	3859.71
52	3674.89	3675.52	3700.09	3692.56	3694.09	3653.55	3614.43	3553.32	3379.44	3432.31
53	3240.86	3248.63	3271.26	3270.30	3265.71	3223.58	3195.99	3130.70	2954.89	3017.15
54	2816.97	2827.29	2857.01	2844.89	2837.45	2802.53	2775.11	2720.97	2552.32	2616.06
55	2414.60	2413.05	2458.57	2437.25	2449.23	2385.76	2393.87	2318.11	2168.41	2253.70
56	2012.22	2008.97	2060.12	2029.68	2061.01	1993.38	2012.63	1944.42	1809.55	1891.33
57	1610.07	1611.36	1661.98	1642.17	1673.74	1625.47	1632.91	1582.06	1466.63	1528.97
58	1247.05	1247.48	1299.30	1287.71	1320.12	1290.92	1297.99	1258.43	1148.23	1206.54
59	925.79	937.12	993.06	989.87	1015.19	995.59	1001.09	964.93	923.99	923.55
60	680.39	725.38	747.87	799.93	769.70	803.84	754.27	747.97	701.53	685.68
61	503.99	517.17	558.54	613.26	579.88	612.87	563.70	533.54	479.07	499.97
62	385.34	393.51	428.65	426.59	440.36	421.90	424.28	396.59	359.63	373.06
63	314.48	319.24	344.07	338.01	346.54	327.80	328.40	307.92	286.27	293.68
64	270.09	272.42	289.16	283.24	287.60	271.07	270.82	256.61	244.72	248.74
65	247.82	241.07	251.64	246.60	259.45	238.33	246.95	228.17	221.21	230.67
66	225.56	219.19	228.52	221.22	231.30	215.83	223.08	210.00	204.74	212.61
67	203.37	203.10	205.58	203.52	203.56	199.87	199.60	196.16	191.55	194.64
68	190.19	189.93	191.24	189.91	189.10	186.90	186.76	184.58	180.87	184.01
69	180.03	179.46	179.73	178.72	177.57	176.27	176.11	174.43	171.62	175.08
70	171.07	170.09	169.78	169.27	168.04	167.22	166.71	165.30	163.30	166.79
71	162.99	162.51	161.87	161.84	160.04	159.46	158.01	157.04	155.66	159.46
72	156.02	155.44	154.68	155.25	153.25	152.90	150.20	148.95	147.93	151.80
73	147.99	146.95	146.14	146.43	147.40	146.08	142.54	140.68	139.69	143.27
74	139.57	138.56	137.30	137.61	140.80	136.88	134.83	132.23	131.70	133.99
75	131.15	129.48	128.43	127.92	131.35	127.16	126.16	123.77	122.32	124.72
76	120.43	119.16	118.20	118.32	120.02	117.88	116.81	115.09	112.75	115.47
77	110.51	109.68	108.05	108.80	109.52	109.37	107.27	106.92	103.60	106.45
78	100.76	100.27	98.07	99.31	99.65	100.37	98.08	98.13	94.10	97.16
79	91.32	90.50	88.62	89.73	90.49	91.43	89.13	89.33	85.25	88.57
80	82.29	80.74	78.16	80.15	81.57	82.50	80.66	80.53	76.42	79.91
81	73.20	70.97	69.05	70.56	72.30	73.57	72.19	71.74	68.21	71.26
82	64.01	61.88	60.10	61.71	63.28	65.01	64.14	63.31	60.19	62.93
83	55.10	52.29	50.34	52.02	54.59	56.43	55.81	55.14	51.91	54.96
84	45.08	41.15	39.06	41.17	45.00	47.82	46.78	46.71	42.97	46.44
85	33.95	30.26	29.02	29.81	33.63	37.89	38.36	38.04	34.83	37.46
86	22.82	18.72	18.97	19.41	23.97	27.40	29.10	29.91	26.31	27.10
87	11.73	8.44	8.98	9.62	14.31	16.53	19.83	21.20	17.09	16.74
88	3.32	4.24	2.04	4.92	4.81	11.06	10.57	10.46	11.37	6.42
89	0.15	0.23	0.16	0.35	0.41	5.59	1.40	5.27	5.74	0.06
90	0.10	0.11	0.11	0.11	0.11	0.13	0.10	0.21	0.11	0.02
91	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.02	0.02
92	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.02	0.02

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CANDELA TABULATION - (Cont.)

93	0.14	0.14	0.13	0.13	0.13	0.14	0.14	0.14	0.03	0.03
94	0.16	0.15	0.15	0.15	0.15	0.16	0.15	0.16	0.03	0.03
95	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.04	0.04
96	0.21	0.21	0.20	0.20	0.20	0.21	0.21	0.21	0.05	0.05
97	0.25	0.25	0.24	0.24	0.24	0.25	0.25	0.25	0.06	0.06
98	0.29	0.29	0.28	0.28	0.28	0.29	0.29	0.29	0.07	0.07
99	0.34	0.33	0.33	0.33	0.32	0.33	0.34	0.34	0.09	0.08
100	0.39	0.38	0.38	0.38	0.38	0.39	0.39	0.40	0.11	0.10
101	0.45	0.44	0.44	0.44	0.43	0.44	0.45	0.46	0.13	0.12
102	0.51	0.51	0.50	0.50	0.50	0.51	0.51	0.52	0.15	0.14
103	0.59	0.58	0.57	0.58	0.57	0.59	0.59	0.60	0.17	0.17
104	0.67	0.66	0.65	0.65	0.65	0.66	0.67	0.68	0.20	0.19
105	0.74	0.73	0.73	0.72	0.73	0.74	0.74	0.76	0.22	0.22
106	0.81	0.80	0.79	0.79	0.79	0.81	0.81	0.82	0.26	0.25
107	0.87	0.87	0.85	0.86	0.86	0.87	0.88	0.89	0.29	0.28
108	0.94	0.93	0.92	0.93	0.93	0.94	0.95	0.97	0.33	0.32
109	1.01	1.00	0.99	0.99	1.00	1.02	1.03	1.04	0.38	0.37
110	1.08	1.06	1.05	1.06	1.07	1.10	1.11	1.12	0.43	0.42
111	1.15	1.13	1.12	1.13	1.14	1.17	1.19	1.21	0.49	0.48
112	1.23	1.20	1.18	1.20	1.22	1.26	1.28	1.30	0.55	0.54
113	1.30	1.27	1.25	1.27	1.30	1.34	1.36	1.39	0.62	0.60
114	1.38	1.35	1.33	1.35	1.38	1.43	1.46	1.49	0.68	0.67
115	1.47	1.43	1.41	1.43	1.46	1.52	1.55	1.58	0.76	0.74
116	1.56	1.51	1.49	1.52	1.55	1.61	1.65	1.69	0.83	0.81
117	1.67	1.64	1.59	1.64	1.67	1.72	1.75	1.79	0.90	0.89
118	1.77	1.75	1.76	1.77	1.79	1.84	1.86	1.90	0.98	0.98
119	1.88	1.87	1.86	1.88	1.91	1.96	1.97	2.01	1.07	1.06
120	2.00	1.98	1.97	2.00	2.02	2.08	2.10	2.13	1.15	1.15
121	2.12	2.09	2.08	2.12	2.14	2.21	2.23	2.24	1.24	1.24
122	2.23	2.21	2.19	2.23	2.25	2.34	2.36	2.37	1.33	1.33
123	2.35	2.32	2.30	2.36	2.37	2.47	2.52	2.53	1.42	1.42
124	2.47	2.45	2.43	2.49	2.50	2.61	2.67	2.70	1.51	1.51
125	2.60	2.58	2.56	2.63	2.64	2.75	2.83	2.88	1.60	1.60
126	2.74	2.71	2.71	2.77	2.78	2.90	2.98	3.05	1.70	1.69
127	2.89	2.85	2.85	2.91	2.94	3.05	3.15	3.22	1.79	1.79
128	3.04	2.99	3.00	3.07	3.11	3.20	3.32	3.40	1.89	1.88
129	3.19	3.15	3.15	3.24	3.28	3.36	3.49	3.57	1.99	1.98
130	3.36	3.32	3.32	3.40	3.46	3.54	3.67	3.75	2.10	2.09
131	3.54	3.50	3.49	3.57	3.64	3.72	3.85	3.93	2.21	2.20
132	3.70	3.66	3.65	3.74	3.81	3.90	4.02	4.10	2.33	2.32
133	3.86	3.81	3.79	3.90	3.98	4.08	4.19	4.26	2.45	2.44
134	4.00	3.94	3.91	4.05	4.13	4.26	4.35	4.39	2.56	2.55
135	4.12	4.07	4.04	4.18	4.26	4.42	4.49	4.51	2.65	2.66
136	4.22	4.19	4.16	4.30	4.39	4.55	4.63	4.62	2.75	2.76
137	4.32	4.32	4.28	4.43	4.51	4.69	4.77	4.74	2.88	2.86
138	4.47	4.46	4.40	4.56	4.65	4.84	4.90	4.87	3.00	2.96
139	4.61	4.62	4.56	4.69	4.77	4.97	5.03	4.99	3.12	3.08
140	4.74	4.78	4.68	4.82	4.89	5.09	5.15	5.13	3.25	3.19
141	4.89	4.92	4.82	4.96	5.04	5.22	5.30	5.26	3.38	3.31
142	5.03	5.08	4.96	5.11	5.19	5.35	5.45	5.39	3.48	3.44
143	5.18	5.23	5.11	5.27	5.34	5.48	5.60	5.53	3.59	3.58
144	5.32	5.39	5.26	5.43	5.48	5.62	5.76	5.68	3.70	3.72
145	5.47	5.58	5.46	5.60	5.61	5.76	5.89	5.84	3.83	3.85
146	5.62	5.73	5.62	5.76	5.74	5.91	6.02	5.99	3.93	3.97
147	5.79	5.86	5.77	5.90	5.87	6.07	6.16	6.13	4.00	4.05
148	5.92	5.99	5.91	6.02	6.00	6.23	6.28	6.25	4.05	4.12

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

149	6.13	6.14	6.06	6.12	6.15	6.39	6.41	6.38	4.10	4.17
150	6.32	6.28	6.19	6.22	6.30	6.54	6.54	6.50	4.16	4.23
151	6.51	6.43	6.32	6.33	6.48	6.67	6.67	6.61	4.23	4.31
152	6.70	6.55	6.43	6.46	6.64	6.79	6.78	6.72	4.31	4.41
153	6.87	6.67	6.54	6.59	6.83	6.91	6.89	6.84	4.36	4.50
154	7.06	6.77	6.67	6.71	7.01	7.03	7.00	6.96	4.39	4.58
155	7.22	6.89	6.80	6.85	7.16	7.15	7.11	7.04	4.39	4.65
156	7.37	7.04	6.93	7.03	7.30	7.26	7.21	7.11	4.42	4.72
157	7.48	7.19	7.11	7.19	7.42	7.40	7.31	7.20	4.45	4.79
158	7.56	7.34	7.28	7.34	7.50	7.53	7.41	7.29	4.49	4.86
159	7.61	7.47	7.43	7.47	7.58	7.65	7.50	7.39	4.53	4.93
160	7.64	7.54	7.53	7.54	7.64	7.76	7.58	7.47	4.56	4.97
161	7.64	7.57	7.55	7.57	7.67	7.81	7.64	7.52	4.59	5.01
162	7.62	7.57	7.54	7.57	7.67	7.84	7.68	7.53	4.66	5.06
163	7.61	7.57	7.53	7.57	7.67	7.85	7.73	7.54	4.78	5.13
164	7.60	7.58	7.53	7.60	7.69	7.87	7.78	7.56	4.94	5.23
165	7.61	7.59	7.55	7.65	7.76	7.91	7.85	7.59	5.12	5.34
166	7.61	7.57	7.53	7.70	7.81	7.94	7.89	7.61	5.26	5.47
167	7.59	7.55	7.55	7.71	7.84	7.94	7.88	7.58	5.37	5.59
168	7.57	7.51	7.54	7.70	7.82	7.90	7.86	7.50	5.45	5.65
169	7.51	7.42	7.52	7.65	7.75	7.83	7.79	7.39	5.55	5.65
170	7.44	7.35	7.48	7.59	7.69	7.77	7.70	7.33	5.59	5.56
171	7.43	7.37	7.48	7.59	7.69	7.74	7.68	7.29	5.61	5.47
172	7.43	7.39	7.48	7.60	7.68	7.68	7.65	7.33	5.67	5.58
173	7.37	7.36	7.44	7.58	7.63	7.59	7.58	7.30	5.78	5.74
174	7.34	7.36	7.45	7.58	7.61	7.54	7.56	7.25	5.96	5.95
175	7.29	7.35	7.43	7.57	7.59	7.49	7.52	7.17	6.13	6.19
176	7.18	7.27	7.37	7.51	7.53	7.43	7.45	7.12	6.28	6.33
177	7.07	7.17	7.30	7.46	7.46	7.36	7.33	7.07	6.42	6.43
178	6.91	7.03	7.18	7.31	7.31	7.24	7.17	6.98	6.59	6.47
179	6.85	6.97	7.09	7.22	7.22	7.18	7.08	6.93	6.80	6.53
180	7.01	7.01	7.01	7.01	7.01	7.01	7.01	7.01	7.01	7.01

Vert. Angles **Horizontal Angles**

	<u>300</u>	<u>315</u>	<u>330</u>	<u>345</u>	<u>360</u>
0	8039.06	8039.06	8039.06	8039.06	8039.06
1	8042.72	8040.17	8046.07	8040.26	8048.01
2	8047.14	8044.71	8053.00	8048.11	8055.94
3	8050.60	8051.29	8059.93	8061.19	8065.26
4	8058.49	8062.63	8069.42	8072.99	8075.20
5	8065.97	8069.99	8077.29	8080.28	8088.63
6	8075.94	8080.18	8092.27	8095.27	8107.00
7	8084.80	8093.78	8102.69	8109.76	8119.29
8	8092.12	8106.82	8117.46	8127.84	8135.39
9	8107.97	8120.12	8132.62	8138.41	8154.92
10	8121.43	8132.30	8150.65	8158.06	8171.57
11	8133.81	8146.21	8163.68	8175.36	8189.52
12	8148.12	8163.48	8182.20	8193.28	8204.09
13	8161.84	8176.69	8197.52	8212.49	8226.37
14	8175.59	8188.21	8214.75	8232.22	8245.90
15	8190.24	8208.18	8235.19	8252.60	8265.69
16	8210.40	8228.75	8248.81	8270.20	8284.55
17	8228.32	8248.53	8269.97	8289.83	8304.61
18	8248.60	8266.85	8290.87	8306.46	8323.36
19	8261.35	8284.65	8309.12	8328.76	8339.97

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CANDELA TABULATION - (Cont.)

20	8277.43	8301.09	8328.86	8347.86	8357.18
21	8294.11	8318.69	8345.48	8364.21	8377.42
22	8311.66	8334.97	8365.46	8376.36	8395.87
23	8323.99	8351.04	8379.28	8396.35	8411.36
24	8340.89	8366.59	8393.97	8410.42	8428.57
25	8354.70	8376.01	8404.02	8422.18	8439.60
26	8367.52	8391.06	8417.00	8429.83	8448.78
27	8376.75	8400.45	8421.37	8436.21	8451.35
28	8379.79	8403.80	8424.80	8437.45	8449.03
29	8378.53	8401.04	8419.39	8433.32	8446.96
30	8371.16	8395.58	8409.04	8419.82	8433.94
31	8359.99	8376.89	8392.14	8398.02	8412.45
32	8336.94	8356.21	8364.22	8373.49	8376.62
33	8306.00	8321.75	8324.57	8336.48	8335.85
34	8261.07	8277.73	8279.37	8285.43	8285.88
35	8203.48	8219.72	8216.26	8216.72	8211.55
36	8134.11	8144.16	8140.85	8134.84	8134.46
37	8041.83	8052.32	8041.53	8038.31	8029.62
38	7931.10	7940.74	7923.51	7917.82	7912.00
39	7797.96	7806.06	7787.25	7776.41	7762.56
40	7638.12	7645.63	7622.24	7609.86	7592.39
41	7450.54	7458.79	7433.26	7414.70	7397.18
42	7230.59	7242.17	7210.26	7194.09	7168.47
43	6977.99	6986.20	6954.75	6931.50	6901.66
44	6682.28	6693.66	6655.67	6630.70	6599.17
45	6345.40	6359.84	6326.80	6294.88	6265.25
46	5967.86	5992.33	5952.48	5921.88	5888.78
47	5552.35	5583.77	5556.23	5522.04	5484.26
48	5120.26	5154.71	5135.13	5099.08	5068.86
49	4676.24	4713.37	4690.11	4665.24	4635.71
50	4230.99	4263.68	4233.07	4222.91	4197.04
51	3790.17	3826.08	3794.31	3784.60	3763.79
52	3364.70	3397.06	3355.77	3360.18	3332.07
53	2951.78	2976.92	2931.61	2939.19	2916.58
54	2547.69	2564.88	2521.57	2534.83	2497.80
55	2160.99	2191.24	2121.72	2149.79	2090.46
56	1790.35	1817.59	1729.69	1764.75	1688.17
57	1438.56	1444.64	1374.06	1380.57	1329.53
58	1121.74	1121.36	1050.59	1057.91	1009.62
59	897.46	839.40	836.68	783.08	802.07
60	675.45	618.98	625.78	565.87	597.96
61	453.45	448.63	414.89	412.07	393.85
62	342.70	337.49	318.68	316.11	305.86
63	277.82	275.14	267.33	265.37	261.89
64	242.74	242.58	239.96	245.17	237.26
65	222.31	224.72	221.37	224.96	219.40
66	207.37	206.88	206.14	204.85	205.13
67	195.16	194.95	193.70	192.94	193.12
68	184.64	184.55	182.76	181.91	182.73
69	175.62	175.65	173.64	172.55	173.73
70	167.33	167.51	165.21	164.14	165.35
71	159.30	160.12	157.67	155.98	157.23
72	151.19	151.84	149.99	147.72	148.39
73	141.99	142.60	141.59	139.02	139.55
74	132.79	132.93	132.79	130.11	130.52
75	122.74	123.26	122.64	121.50	120.90

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CANDELA TABULATION - (Cont.)

76	112.36	113.54	112.75	112.77	111.66
77	102.48	104.20	103.52	104.24	101.88
78	93.34	95.10	94.41	95.01	92.32
79	84.20	86.22	85.31	85.96	82.77
80	75.07	77.53	76.20	76.57	73.21
81	66.90	69.04	67.26	67.30	64.38
82	58.99	60.67	58.45	57.80	54.84
83	50.50	52.45	49.07	47.49	42.56
84	41.84	43.38	37.98	35.41	31.68
85	33.48	33.55	26.37	24.96	21.42
86	24.53	22.47	15.52	14.50	10.61
87	14.55	11.41	10.32	4.31	5.41
88	9.68	2.60	5.22	0.38	0.34
89	4.87	0.03	0.13	0.03	0.04
90	0.07	0.02	0.02	0.01	0.02
91	0.02	0.02	0.02	0.02	0.02
92	0.02	0.02	0.02	0.02	0.02
93	0.03	0.03	0.03	0.02	0.03
94	0.03	0.03	0.03	0.03	0.03
95	0.04	0.04	0.04	0.04	0.04
96	0.05	0.05	0.05	0.05	0.05
97	0.06	0.06	0.06	0.06	0.06
98	0.07	0.07	0.08	0.07	0.08
99	0.09	0.09	0.09	0.09	0.09
100	0.11	0.11	0.11	0.11	0.11
101	0.13	0.13	0.13	0.13	0.13
102	0.15	0.15	0.16	0.15	0.16
103	0.17	0.17	0.18	0.18	0.18
104	0.20	0.20	0.20	0.20	0.21
105	0.23	0.22	0.23	0.23	0.23
106	0.26	0.26	0.27	0.26	0.26
107	0.29	0.29	0.30	0.29	0.30
108	0.34	0.33	0.34	0.33	0.33
109	0.38	0.38	0.39	0.37	0.37
110	0.43	0.43	0.43	0.42	0.42
111	0.49	0.48	0.48	0.47	0.47
112	0.55	0.54	0.54	0.52	0.52
113	0.61	0.60	0.59	0.58	0.57
114	0.68	0.66	0.65	0.64	0.63
115	0.75	0.73	0.72	0.70	0.69
116	0.83	0.80	0.79	0.77	0.76
117	0.91	0.88	0.87	0.85	0.84
118	0.99	0.96	0.95	0.92	0.91
119	1.07	1.04	1.04	1.00	0.99
120	1.16	1.13	1.13	1.09	1.08
121	1.25	1.21	1.22	1.17	1.17
122	1.33	1.30	1.31	1.25	1.26
123	1.42	1.38	1.40	1.34	1.35
124	1.51	1.47	1.49	1.43	1.44
125	1.60	1.56	1.58	1.51	1.54
126	1.69	1.65	1.67	1.60	1.63
127	1.78	1.74	1.77	1.71	1.72
128	1.88	1.83	1.87	1.82	1.82
129	1.98	1.92	1.97	1.94	1.93
130	2.09	2.02	2.07	2.05	2.05
131	2.20	2.12	2.17	2.17	2.18

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

132	2.30	2.22	2.27	2.29	2.31
133	2.41	2.33	2.38	2.42	2.45
134	2.51	2.46	2.48	2.54	2.58
135	2.62	2.58	2.58	2.65	2.70
136	2.72	2.71	2.67	2.77	2.82
137	2.82	2.83	2.79	2.90	2.95
138	2.94	2.97	2.90	3.02	3.08
139	3.05	3.09	3.02	3.14	3.21
140	3.18	3.20	3.13	3.26	3.34
141	3.31	3.31	3.26	3.38	3.45
142	3.45	3.42	3.39	3.50	3.56
143	3.60	3.53	3.51	3.62	3.67
144	3.73	3.64	3.63	3.75	3.78
145	3.83	3.76	3.74	3.87	3.90
146	3.92	3.89	3.85	3.98	4.01
147	3.99	4.00	3.96	4.08	4.12
148	4.06	4.11	4.06	4.17	4.22
149	4.14	4.22	4.17	4.26	4.32
150	4.24	4.33	4.31	4.34	4.42
151	4.35	4.43	4.45	4.43	4.54
152	4.46	4.54	4.62	4.52	4.65
153	4.56	4.64	4.76	4.59	4.74
154	4.65	4.72	4.89	4.67	4.82
155	4.74	4.80	5.01	4.78	4.89
156	4.81	4.89	5.10	4.92	4.99
157	4.88	4.99	5.17	5.04	5.09
158	4.96	5.09	5.23	5.15	5.19
159	5.02	5.19	5.26	5.20	5.28
160	5.09	5.28	5.28	5.23	5.31
161	5.16	5.35	5.30	5.27	5.33
162	5.22	5.40	5.31	5.29	5.34
163	5.31	5.46	5.35	5.35	5.37
164	5.42	5.51	5.41	5.43	5.44
165	5.53	5.59	5.51	5.52	5.51
166	5.66	5.69	5.64	5.66	5.59
167	5.73	5.75	5.72	5.76	5.70
168	5.80	5.78	5.78	5.84	5.78
169	5.81	5.81	5.82	5.87	5.86
170	5.76	5.79	5.80	5.86	5.88
171	5.75	5.77	5.77	5.84	5.87
172	5.83	5.81	5.83	5.91	5.94
173	5.95	5.93	5.95	6.04	6.08
174	6.15	6.17	6.18	6.28	6.35
175	6.40	6.40	6.45	6.55	6.62
176	6.56	6.52	6.59	6.73	6.76
177	6.66	6.61	6.68	6.81	6.86
178	6.69	6.68	6.70	6.82	6.89
179	6.66	6.73	6.74	6.87	6.93
180	7.01	7.01	7.01	7.01	7.01

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3093.15	15.90	15.90
0-30	6950.62	35.80	35.80
0-40	12056.97	62.10	62.10
0-60	18956.27	97.60	97.60
0-80	19364.61	99.70	99.70
0-90	19401.71	99.90	99.90
10-90	18630.56	96.00	96.00
20-40	8963.81	46.20	46.20
20-50	13800.83	71.10	71.10
40-70	7176.07	37.00	37.00
60-80	408.34	2.10	2.10
70-80	131.58	0.70	0.70
80-90	37.10	0.20	0.20
90-110	0.66	0.00	0.00
90-120	1.78	0.00	0.00
90-130	3.70	0.00	0.00
90-150	9.32	0.00	0.00
90-180	14.50	0.10	0.10
110-180	13.84	0.10	0.10
0-180	19416.21	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	771.16
10-20	2322.00
20-30	3857.47
30-40	5106.34
40-50	4837.01
50-60	2062.29
60-70	276.76
70-80	131.58
80-90	37.10
90-100	0.14
100-110	0.52
110-120	1.12
120-130	1.92
130-140	2.66
140-150	2.96
150-160	2.70
160-170	1.84
170-180	0.64

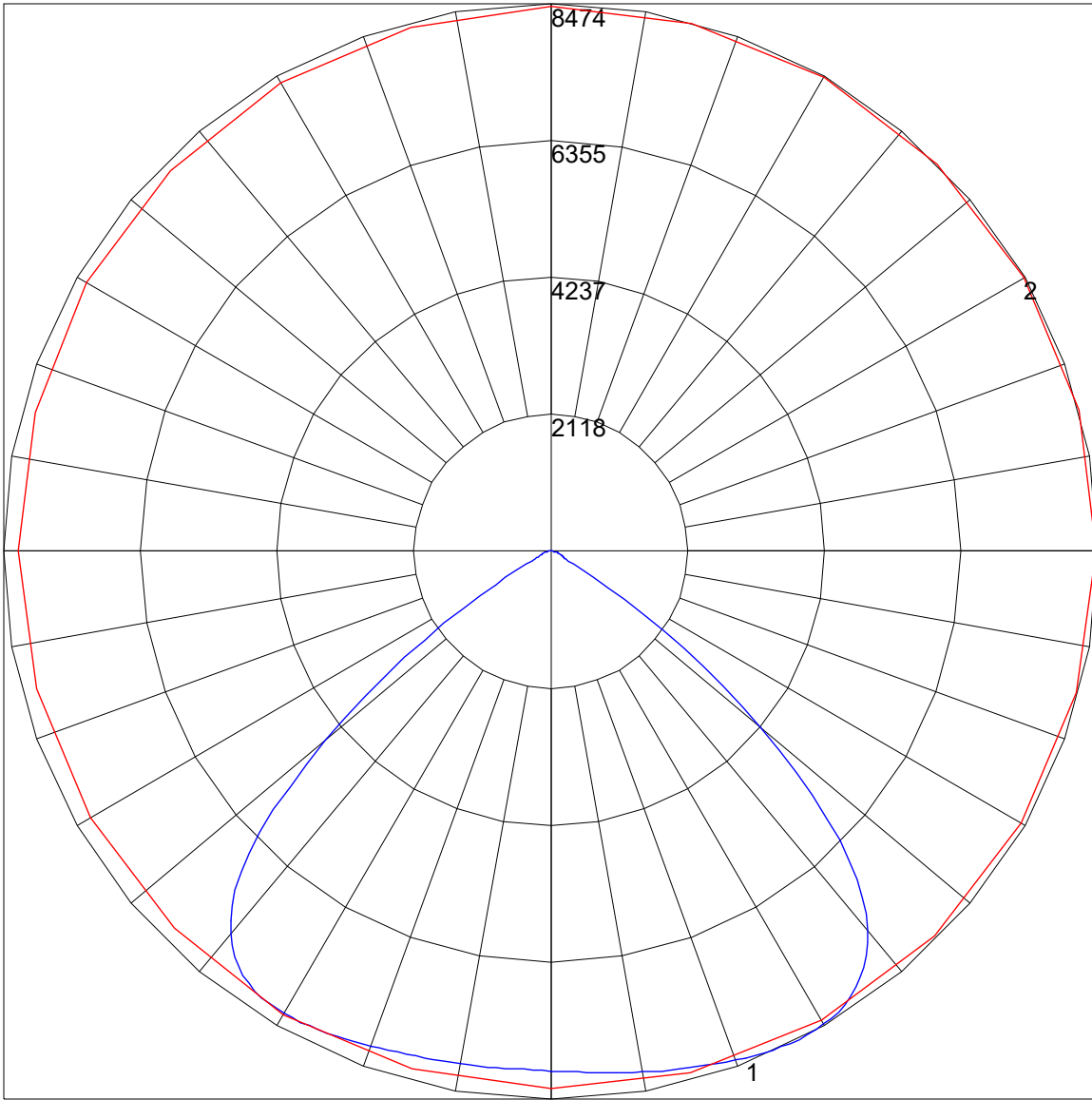
IES INDOOR REPORT
PHOTOMETRIC FILENAME : HBRMSR-LED135DMV40.IES

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	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	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70
4	89	79	72	67	87	78	71	66	76	70	65	74	69	64	72	67	64	62
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	60	57	55
6	77	65	58	52	75	64	57	52	63	56	51	61	55	51	60	55	51	49
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44
8	67	55	47	42	65	54	47	42	53	46	41	51	45	41	50	45	41	39
9	62	50	43	38	61	50	42	37	48	42	37	47	41	37	46	41	37	35
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32

POLAR GRAPH



Maximum Candela = 8473.94 Located At Horizontal Angle = 45, Vertical Angle = 28
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (28) (Through Max. Cd.)