



IES INDOOR REPORT
PHOTOMETRIC FILENAME : HBULED140DHVWH40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]
 [TESTLAB] Dongguan New Testing Centre Co., Ltd
 [TESTDATE] 25 November 2019
 [ISSUEDATE] 2019-11-25 20:38:26
 [NEARFIELD]
 [LAMPPOSITION] 0,0
 [OTHER] EVERFINE GO-R5000_V2 SYSTEM
 [MANUFAC] MOBERN LIGHTING CO.
 [LUMCAT] HBULED140DHVWH40
 [LUMINAIRE] LED
 [BALLAST] 347-480Vac,50/60Hz
 [OTHER]

[OTHER] Gamma(deg)	Fz(lm)	Ft(lm)	%Lum	%Lamp
[OTHER] 0- 10	569.42	569.42	2.99	2.99
[OTHER] 10- 20	1650.87	2220.30	11.66	11.66
[OTHER] 20- 30	2542.10	4762.39	25.00	25.00
[OTHER] 30- 40	3125.36	7887.76	41.41	41.41
[OTHER] 40- 50	3280.53	11168.28	58.64	58.64
[OTHER] 50- 60	2980.58	14148.87	74.29	74.29
[OTHER] 60- 70	2337.43	16486.30	86.56	86.56
[OTHER] 70- 80	1552.70	18039.00	94.71	94.71
[OTHER] 80- 90	728.86	18767.85	98.54	98.54
[OTHER] 90-100	204.10	18971.96	99.61	99.61
[OTHER] 100-110	53.65	19025.61	99.89	99.89
[OTHER] 110-120	7.79	19033.40	99.93	99.93
[OTHER] 120-130	2.84	19036.23	99.95	99.95
[OTHER] 130-140	2.99	19039.22	99.96	99.96
[OTHER] 140-150	2.80	19042.03	99.98	99.98
[OTHER] 150-160	2.35	19044.37	99.99	99.99
[OTHER] 160-170	1.51	19045.88	100.00	100.00
[OTHER] 170-180	0.50	19046.39	100.00	100.00
[OTHER]				

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CHARACTERISTICS

Lumens Per Lamp	19046 (1 lamp)
Total Lamp Lumens	19046
Luminaire Lumens	19046
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	137
Total Luminaire Watts	138.865
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.34
Spacing Criterion (90-270)	1.34
Spacing Criterion (Diagonal)	1.44
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.40 m (Diameter)
Luminous Width (90-270)	0.40 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	48630	49174	48982
55	47403	48147	47874
65	45792	46833	46256
75	46782	48507	47760
85	66216	70545	68453

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CANDELA TABULATION

	<u>0</u>	<u>15</u>	<u>30</u>	<u>45</u>	<u>60</u>	<u>75</u>	<u>90</u>	<u>105</u>	<u>120</u>	<u>135</u>
0	5954.11	5954.11	5954.11	5954.11	5954.11	5954.11	5954.11	5954.11	5954.11	5954.11
1	5949.95	5949.43	5945.62	5949.79	5954.43	5956.10	5956.45	5958.73	5959.23	5958.20
2	5945.88	5949.08	5947.57	5949.47	5954.76	5955.49	5959.30	5963.72	5964.26	5967.51
3	5943.11	5947.73	5945.27	5950.83	5957.10	5958.54	5966.99	5969.86	5971.30	5975.47
4	5944.74	5944.35	5947.60	5951.50	5961.24	5963.00	5971.23	5977.86	5982.63	5983.49
5	5944.08	5945.46	5948.64	5953.27	5964.94	5970.06	5981.42	5985.40	5991.50	5989.03
6	5949.77	5949.10	5952.01	5956.63	5967.33	5973.84	5982.29	5990.10	5998.42	5995.01
7	5948.48	5948.14	5954.36	5959.99	5973.76	5977.93	5988.59	5997.21	6000.79	5998.17
8	5952.21	5949.78	5953.40	5959.65	5976.87	5981.30	5991.16	5995.05	5999.71	5996.87
9	5946.82	5950.03	5954.75	5959.32	5975.89	5979.50	5987.02	5992.07	5995.65	5989.59
10	5941.06	5944.50	5949.33	5960.26	5971.12	5972.80	5979.86	5980.39	5988.19	5977.34
11	5937.05	5936.99	5942.37	5950.64	5963.71	5964.56	5972.16	5966.74	5973.04	5960.71
12	5920.74	5925.50	5933.07	5942.89	5949.52	5950.05	5955.14	5947.73	5950.46	5939.75
13	5903.56	5911.68	5916.13	5924.57	5928.39	5934.40	5933.69	5925.10	5931.09	5916.42
14	5884.14	5895.26	5897.78	5910.14	5908.54	5905.94	5909.54	5899.01	5901.01	5886.92
15	5858.08	5868.77	5876.98	5886.10	5884.58	5876.29	5881.14	5867.72	5874.03	5860.95
16	5830.63	5841.92	5847.66	5856.15	5855.02	5849.04	5848.64	5838.65	5841.71	5828.80
17	5802.01	5812.74	5818.40	5828.38	5824.64	5821.48	5819.60	5806.64	5811.83	5798.69
18	5768.21	5783.78	5789.26	5796.20	5791.23	5788.28	5788.41	5772.09	5779.55	5768.56
19	5736.96	5750.23	5756.80	5767.05	5760.19	5753.80	5750.80	5739.27	5745.94	5738.42
20	5698.86	5715.14	5721.36	5729.88	5724.23	5718.76	5719.81	5709.16	5715.33	5705.07
21	5667.61	5680.33	5687.15	5695.53	5692.67	5686.86	5686.32	5675.29	5682.79	5676.66
22	5628.73	5645.67	5654.49	5661.47	5661.08	5657.31	5656.41	5642.23	5650.51	5645.28
23	5596.93	5611.21	5617.51	5627.25	5624.21	5623.63	5621.42	5610.41	5618.60	5610.77
24	5559.74	5580.02	5585.15	5592.84	5591.95	5588.19	5587.97	5581.08	5584.96	5577.40
25	5521.51	5539.29	5548.23	5558.17	5553.56	5555.99	5553.95	5542.84	5551.34	5541.29
26	5482.44	5504.34	5507.88	5519.61	5519.19	5517.83	5518.41	5506.21	5515.34	5502.24
27	5443.62	5463.48	5471.75	5476.45	5480.25	5481.21	5479.55	5466.87	5473.12	5461.82
28	5402.37	5424.51	5429.66	5437.88	5435.56	5440.12	5440.82	5425.30	5432.43	5414.16
29	5359.93	5380.36	5386.15	5396.95	5395.21	5394.36	5398.89	5381.77	5381.70	5369.49
30	5313.67	5336.37	5342.95	5346.44	5348.93	5349.62	5355.37	5331.77	5334.18	5317.20
31	5264.32	5287.10	5292.84	5299.66	5298.03	5301.28	5301.45	5281.51	5280.57	5264.17
32	5211.18	5233.72	5242.50	5249.21	5244.51	5247.26	5249.10	5227.50	5226.31	5204.89
33	5156.55	5182.44	5188.57	5193.32	5190.99	5194.66	5192.47	5167.06	5165.47	5143.37
34	5099.09	5127.40	5129.90	5137.11	5131.53	5138.36	5135.95	5106.31	5106.45	5081.50
35	5038.88	5064.70	5068.37	5077.07	5070.89	5073.50	5074.98	5044.27	5042.16	5016.50
36	4977.29	5003.01	5007.46	5016.81	5007.77	5012.78	5009.75	4980.16	4975.98	4951.83
37	4910.36	4938.39	4945.26	4952.32	4942.92	4945.19	4944.88	4911.78	4907.23	4882.73
38	4845.12	4874.13	4879.16	4886.95	4875.75	4877.23	4878.81	4841.68	4836.98	4810.94
39	4776.66	4807.40	4808.62	4817.22	4808.11	4812.63	4806.49	4775.16	4770.11	4743.86
40	4706.33	4735.12	4739.03	4750.56	4735.40	4741.19	4734.72	4703.34	4697.25	4671.18
41	4633.32	4664.87	4666.66	4673.53	4661.12	4671.43	4662.69	4630.95	4622.54	4594.36
42	4558.65	4588.08	4590.19	4600.45	4586.13	4594.26	4588.96	4554.65	4547.73	4518.12
43	4482.32	4512.58	4516.69	4526.66	4509.28	4515.44	4510.62	4477.64	4469.67	4442.71
44	4404.66	4436.38	4438.23	4448.76	4433.83	4437.55	4432.74	4397.75	4391.99	4360.73
45	4322.97	4357.60	4359.82	4371.38	4354.52	4360.32	4354.27	4316.32	4309.44	4277.79
46	4243.02	4276.58	4277.23	4289.72	4270.66	4278.55	4272.10	4234.46	4223.76	4190.81
47	4155.84	4193.86	4195.03	4202.95	4184.76	4194.89	4188.50	4146.55	4139.90	4105.71
48	4071.86	4107.99	4107.25	4119.23	4098.20	4108.41	4102.14	4061.68	4048.53	4015.59
49	3983.53	4018.81	4020.53	4033.30	4014.39	4018.46	4014.67	3971.79	3962.16	3923.44
50	3891.89	3927.41	3932.37	3943.09	3920.28	3932.96	3923.94	3879.54	3867.93	3831.05
51	3799.72	3836.01	3840.06	3851.44	3832.65	3841.90	3832.31	3789.57	3776.95	3738.66
52	3704.96	3745.04	3746.12	3757.63	3738.50	3749.83	3739.45	3694.40	3680.25	3641.23
53	3613.31	3651.24	3652.49	3662.49	3643.15	3655.30	3644.71	3597.14	3584.05	3545.43

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54	3515.75	3553.35	3555.41	3568.31	3547.23	3556.74	3548.83	3502.67	3486.43	3449.12
55	3418.16	3458.57	3458.92	3471.83	3451.03	3462.36	3452.13	3403.62	3388.19	3347.07
56	3321.16	3358.99	3362.91	3373.93	3354.15	3362.14	3354.91	3305.81	3288.93	3250.96
57	3223.28	3261.79	3263.79	3275.90	3253.68	3265.37	3253.64	3204.98	3188.92	3149.35
58	3123.39	3164.47	3163.79	3179.17	3156.50	3164.31	3155.75	3108.08	3089.70	3050.32
59	3025.56	3063.57	3066.17	3079.29	3056.18	3064.32	3055.48	3006.89	2990.80	2951.39
60	2924.68	2963.75	2966.51	2979.03	2956.70	2964.04	2957.15	2907.85	2891.27	2851.73
61	2826.60	2863.15	2866.66	2881.60	2856.10	2865.02	2856.62	2809.44	2791.22	2751.76
62	2727.13	2764.86	2767.86	2780.63	2757.89	2765.17	2755.26	2708.23	2693.36	2653.84
63	2628.25	2664.27	2668.15	2683.27	2656.49	2664.45	2655.94	2609.08	2592.11	2555.91
64	2529.05	2567.25	2570.80	2585.44	2558.44	2567.44	2556.52	2510.73	2497.44	2459.79
65	2432.95	2469.50	2471.54	2488.25	2462.31	2468.59	2457.60	2413.79	2398.95	2362.65
66	2337.47	2373.04	2374.86	2391.15	2365.01	2373.29	2363.43	2319.20	2305.59	2269.88
67	2241.31	2277.87	2279.79	2294.27	2268.71	2275.72	2267.56	2223.93	2210.14	2175.29
68	2148.44	2184.27	2186.40	2200.80	2175.18	2180.78	2173.11	2129.61	2118.23	2082.72
69	2053.88	2091.16	2092.86	2107.50	2081.70	2089.77	2079.64	2037.43	2027.11	1991.97
70	1964.20	2003.02	2000.66	2019.10	1989.71	2001.71	1992.10	1945.79	1939.96	1901.64
71	1872.22	1914.87	1907.14	1930.69	1897.82	1913.65	1904.56	1856.10	1852.88	1813.60
72	1784.04	1826.71	1817.48	1842.25	1808.74	1825.58	1817.02	1768.10	1768.50	1724.58
73	1694.37	1737.81	1727.85	1752.83	1720.17	1736.94	1729.77	1681.00	1680.09	1639.62
74	1608.46	1650.75	1641.93	1666.51	1632.86	1649.33	1641.21	1593.67	1593.08	1553.28
75	1522.19	1564.08	1554.39	1578.32	1546.67	1561.10	1554.01	1507.85	1507.03	1468.57
76	1440.67	1478.78	1471.38	1493.01	1461.83	1477.01	1470.44	1425.25	1423.66	1385.62
77	1356.86	1395.06	1387.62	1409.01	1380.06	1392.08	1385.43	1343.12	1340.42	1303.22
78	1276.44	1312.80	1305.72	1327.77	1297.53	1309.58	1303.40	1258.46	1255.98	1220.61
79	1195.71	1233.42	1224.41	1246.04	1216.85	1228.85	1221.77	1178.98	1174.06	1137.67
80	1115.55	1151.89	1144.13	1165.39	1135.51	1147.99	1141.99	1098.11	1091.25	1056.16
81	1037.19	1071.96	1063.61	1083.22	1056.85	1069.17	1062.29	1018.24	1009.91	974.12
82	958.90	992.32	982.23	1003.52	977.27	989.90	981.94	939.62	929.31	895.50
83	881.10	914.15	905.69	924.88	902.33	913.08	903.64	862.15	850.85	816.90
84	803.32	836.45	829.25	848.46	827.53	836.60	827.38	784.70	774.79	738.30
85	725.53	758.40	752.80	772.96	752.73	761.07	750.04	707.25	698.54	662.45
86	641.33	677.95	672.00	697.41	674.20	684.74	672.13	628.26	619.97	582.58
87	561.28	594.94	589.87	615.41	593.15	602.38	591.86	551.26	544.75	507.97
88	484.76	516.44	512.87	536.40	517.07	526.56	515.78	476.41	469.33	434.40
89	408.42	440.16	436.21	459.63	440.18	449.70	441.62	401.35	394.79	358.12
90	328.59	361.75	357.05	381.90	361.15	372.29	363.91	324.48	317.13	298.46
91	295.63	305.25	303.84	310.58	302.98	304.64	301.48	287.58	284.65	272.37
92	270.63	279.89	278.24	284.75	277.11	278.81	276.29	262.97	259.69	249.06
93	247.24	256.42	254.61	260.77	253.15	254.48	253.12	240.40	237.66	226.93
94	225.71	235.64	233.50	239.57	230.84	203.61	232.08	219.42	216.84	207.26
95	205.74	214.85	213.20	218.36	205.67	152.74	211.03	199.95	195.47	188.43
96	186.63	194.08	194.34	197.19	130.96	101.86	189.60	173.99	159.95	171.35
97	169.43	176.44	176.99	178.67	85.86	50.99	143.44	90.55	106.66	155.15
98	153.06	160.19	160.60	153.99	64.84	1.13	97.28	5.43	69.28	136.16
99	138.08	144.99	145.36	126.49	44.10	5.70	51.12	0.12	43.36	111.79
100	124.25	130.87	129.92	100.24	48.57	41.35	8.48	26.64	45.44	88.53
101	111.10	117.55	113.02	74.99	54.60	98.52	69.20	53.57	40.43	69.10
102	99.47	105.43	96.74	57.48	62.01	88.03	104.33	80.49	48.90	49.73
103	89.21	93.52	81.32	44.39	61.05	78.12	93.08	71.74	51.88	37.49
104	78.96	81.82	65.90	34.20	64.61	68.91	82.67	63.12	50.15	28.31
105	68.71	70.27	50.48	25.38	63.18	60.53	73.04	55.28	52.69	20.79
106	60.18	59.12	39.10	17.42	60.21	52.67	64.17	47.97	51.24	14.81
107	52.08	49.30	28.99	21.52	55.26	45.60	55.88	41.37	48.40	17.19
108	44.37	39.92	20.33	22.24	48.22	38.99	48.23	35.31	43.79	17.76
109	36.69	31.41	10.55	22.36	41.68	33.14	41.27	29.80	37.47	17.63

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110	28.95	22.27	8.74	21.92	35.47	27.69	34.83	24.89	31.70	17.02
111	21.15	13.13	7.19	20.68	29.82	23.41	29.04	20.42	26.42	16.07
112	12.57	4.05	5.63	19.45	24.75	19.14	24.35	16.52	22.10	14.66
113	8.96	1.77	5.46	18.21	20.13	14.89	19.67	13.05	17.78	12.91
114	5.45	1.82	5.17	15.99	15.91	11.58	15.01	10.07	13.48	10.71
115	1.94	1.87	4.84	13.15	12.14	8.70	11.58	7.92	10.06	8.58
116	1.88	1.93	4.51	9.91	9.49	6.34	8.81	5.79	7.20	6.45
117	1.94	1.98	4.21	7.03	6.85	4.50	6.59	4.34	4.94	4.32
118	2.01	2.04	3.76	4.81	4.22	3.27	5.00	3.58	3.59	3.41
119	2.07	2.09	3.21	3.37	2.88	2.70	3.94	3.33	3.39	3.29
120	2.14	2.15	2.62	2.68	2.71	2.54	3.50	3.36	3.42	3.34
121	2.19	2.22	2.51	2.65	2.76	2.59	3.51	3.40	3.47	3.39
122	2.25	2.28	2.55	2.70	2.81	2.65	3.57	3.44	3.52	3.46
123	2.31	2.34	2.61	2.75	2.86	2.69	3.62	3.49	3.57	3.53
124	2.36	2.40	2.66	2.80	2.92	2.72	3.62	3.54	3.62	3.61
125	2.43	2.46	2.71	2.86	2.97	2.75	3.61	3.59	3.68	3.67
126	2.48	2.52	2.75	2.91	3.02	2.68	3.59	3.63	3.77	3.76
127	2.53	2.58	2.80	2.95	3.08	2.71	3.30	3.70	3.85	3.85
128	2.60	2.63	2.84	3.01	3.13	2.80	3.49	3.70	3.95	3.93
129	2.65	2.69	2.89	3.04	3.19	2.86	3.86	3.73	4.04	4.04
130	2.71	2.75	2.96	3.08	3.23	2.93	3.96	3.82	4.14	4.14
131	2.78	2.82	3.03	3.13	3.27	3.03	4.05	3.93	4.22	4.24
132	2.86	2.90	3.09	3.19	3.31	3.15	4.15	4.04	4.31	4.36
133	2.96	2.99	3.14	3.24	3.36	3.27	4.25	4.16	4.41	4.47
134	3.04	3.06	3.18	3.29	3.40	3.34	4.34	4.29	4.51	4.57
135	3.11	3.11	3.22	3.34	3.43	3.39	4.40	4.41	4.58	4.66
136	3.16	3.16	3.28	3.38	3.44	3.44	4.43	4.49	4.65	4.75
137	3.20	3.21	3.33	3.44	3.42	3.48	4.50	4.56	4.70	4.83
138	3.26	3.26	3.38	3.50	3.43	3.52	4.58	4.61	4.72	4.90
139	3.34	3.32	3.43	3.55	3.46	3.55	4.63	4.65	4.79	4.96
140	3.41	3.38	3.48	3.58	3.50	3.58	4.69	4.68	4.88	5.04
141	3.49	3.44	3.54	3.61	3.55	3.59	4.75	4.71	4.96	5.12
142	3.55	3.51	3.60	3.62	3.59	3.58	4.75	4.75	5.05	5.20
143	3.63	3.58	3.65	3.66	3.65	3.51	4.71	4.62	5.14	5.27
144	3.68	3.65	3.71	3.70	3.65	3.37	4.72	4.62	5.23	5.36
145	3.73	3.72	3.76	3.72	3.62	3.43	4.73	4.80	5.27	5.45
146	3.78	3.79	3.79	3.75	3.60	3.75	4.88	5.22	5.29	5.51
147	3.85	3.85	3.81	3.77	3.63	3.83	5.25	5.39	5.33	5.58
148	3.89	3.89	3.85	3.83	3.67	3.89	5.39	5.49	5.39	5.67
149	3.91	3.93	3.90	3.89	3.73	3.94	5.48	5.54	5.46	5.75
150	3.92	3.95	3.94	3.96	3.84	3.99	5.57	5.62	5.55	5.85
151	3.92	3.98	3.98	4.06	3.94	4.04	5.65	5.71	5.66	5.95
152	3.95	4.02	4.02	4.15	3.99	4.08	5.72	5.78	5.77	6.02
153	3.98	4.05	4.08	4.16	4.04	4.10	5.79	5.82	5.86	6.02
154	4.00	4.07	4.13	4.13	4.10	4.11	5.87	5.86	5.91	6.04
155	4.00	4.09	4.21	4.14	4.16	4.12	5.91	5.87	5.96	6.09
156	4.02	4.12	4.28	4.18	4.21	4.19	5.95	5.94	6.04	6.15
157	4.07	4.18	4.31	4.23	4.24	4.27	6.03	6.04	6.10	6.21
158	4.11	4.26	4.29	4.31	4.28	4.36	6.11	6.17	6.18	6.34
159	4.12	4.32	4.33	4.38	4.34	4.45	6.21	6.27	6.29	6.43
160	4.02	4.27	4.37	4.43	4.40	4.50	6.34	6.38	6.39	6.49
161	3.92	4.28	4.44	4.45	4.43	4.52	6.39	6.43	6.45	6.49
162	3.90	4.29	4.53	4.46	4.43	4.53	6.42	6.43	6.45	6.50
163	3.97	4.35	4.54	4.50	4.45	4.49	6.43	6.37	6.47	6.52
164	4.09	4.44	4.54	4.55	4.51	4.50	6.36	6.36	6.51	6.56
165	4.13	4.44	4.55	4.64	4.61	4.53	6.31	6.34	6.55	6.60

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166	4.17	4.44	4.58	4.73	4.71	4.58	6.26	6.36	6.60	6.63
167	4.24	4.43	4.63	4.77	4.77	4.61	6.27	6.37	6.61	6.63
168	4.26	4.44	4.69	4.78	4.79	4.65	6.28	6.38	6.61	6.71
169	4.33	4.48	4.69	4.81	4.80	4.71	6.25	6.39	6.61	6.68
170	4.34	4.44	4.65	4.82	4.77	4.75	6.23	6.39	6.56	6.60
171	4.30	4.35	4.60	4.74	4.69	4.70	6.19	6.32	6.45	6.46
172	4.28	4.31	4.63	4.68	4.63	4.67	6.19	6.26	6.33	6.30
173	4.36	4.43	4.65	4.62	4.57	4.64	6.11	6.13	6.19	6.11
174	4.39	4.52	4.68	4.66	4.60	4.66	5.87	5.95	6.01	5.94
175	4.52	4.57	4.78	4.78	4.74	4.79	5.79	5.85	5.91	5.81
176	4.59	4.68	4.82	4.87	4.85	4.94	5.63	5.75	5.76	5.71
177	4.72	4.68	4.92	4.84	4.94	4.96	5.48	5.60	5.67	5.54
178	4.71	4.75	4.88	4.88	4.92	5.05	5.35	5.45	5.48	5.39
179	4.74	4.73	4.82	4.88	4.88	5.02	5.32	5.35	5.35	5.26
180	4.78	4.78	4.78	4.78	4.78	4.78	4.78	4.78	4.78	4.78

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	5954.11	5954.11	5954.11	5954.11	5954.11	5954.11	5954.11	5954.11	5954.11	5954.11
1	5964.07	5957.25	5960.45	5959.53	5955.22	5956.22	5956.82	5956.39	5952.68	5955.43
2	5968.60	5967.56	5966.50	5965.32	5965.75	5958.23	5957.18	5959.11	5954.67	5955.44
3	5976.36	5976.49	5970.15	5972.10	5970.47	5963.30	5963.65	5960.16	5957.72	5956.43
4	5983.23	5982.36	5980.07	5979.98	5974.14	5968.14	5964.67	5965.58	5958.75	5956.12
5	5993.22	5985.36	5982.49	5980.35	5976.22	5967.83	5967.32	5967.64	5963.46	5956.61
6	5995.55	5989.13	5985.79	5982.02	5978.54	5968.49	5965.31	5965.03	5959.19	5964.52
7	5994.51	5990.83	5983.75	5980.73	5975.03	5965.85	5964.64	5963.94	5961.08	5960.42
8	5992.14	5984.79	5981.99	5975.33	5969.98	5959.09	5957.39	5957.24	5952.68	5956.84
9	5987.60	5977.78	5971.88	5964.66	5958.69	5947.79	5949.28	5948.22	5945.13	5947.26
10	5975.92	5963.57	5961.23	5950.29	5944.37	5931.78	5931.20	5928.55	5931.14	5935.31
11	5958.55	5949.19	5941.17	5930.58	5929.96	5915.58	5914.08	5912.33	5909.28	5922.12
12	5940.40	5925.92	5919.19	5912.42	5906.27	5892.99	5893.29	5890.31	5887.51	5899.49
13	5912.80	5903.12	5896.39	5887.40	5884.37	5865.32	5866.08	5862.71	5865.26	5875.32
14	5885.19	5874.12	5867.22	5858.97	5854.69	5838.72	5843.75	5833.19	5833.85	5846.81
15	5860.79	5843.52	5838.14	5832.25	5829.18	5812.12	5812.90	5803.12	5799.88	5815.77
16	5827.90	5815.76	5809.44	5802.12	5799.46	5785.35	5780.13	5773.98	5771.09	5784.88
17	5797.43	5785.04	5782.44	5774.13	5771.11	5749.87	5748.94	5740.04	5736.51	5749.15
18	5766.25	5752.79	5750.79	5741.08	5737.18	5718.35	5716.01	5706.08	5704.85	5712.93
19	5736.53	5725.71	5719.64	5712.35	5707.47	5686.93	5686.05	5671.27	5666.55	5675.41
20	5705.47	5695.98	5689.08	5678.53	5674.60	5655.96	5651.54	5642.70	5635.52	5642.74
21	5672.83	5664.28	5658.83	5646.58	5641.81	5625.09	5616.74	5605.72	5600.40	5608.14
22	5641.52	5634.53	5625.97	5608.37	5605.90	5587.83	5581.07	5571.03	5561.96	5574.08
23	5607.34	5599.54	5590.90	5577.24	5568.89	5548.57	5545.50	5533.07	5525.74	5538.27
24	5576.10	5564.43	5555.83	5538.81	5531.70	5509.98	5506.63	5490.66	5491.49	5499.35
25	5539.51	5524.23	5518.72	5498.77	5488.77	5468.29	5465.84	5452.30	5449.54	5461.04
26	5495.84	5485.28	5477.85	5457.22	5449.49	5425.56	5422.92	5411.04	5407.50	5419.20
27	5457.64	5441.52	5433.01	5411.97	5401.46	5376.80	5377.27	5361.09	5360.26	5376.07
28	5411.71	5396.53	5385.96	5361.76	5355.86	5330.15	5330.45	5313.09	5315.19	5329.82
29	5365.62	5345.90	5336.71	5310.65	5301.43	5278.21	5275.88	5262.44	5262.03	5282.78
30	5310.99	5294.96	5281.90	5257.18	5250.00	5221.31	5223.06	5207.53	5211.52	5226.96
31	5253.32	5240.71	5226.94	5203.10	5194.12	5164.90	5164.85	5153.92	5155.41	5175.45
32	5199.65	5178.98	5170.15	5141.86	5133.20	5105.33	5106.41	5091.41	5096.73	5116.40
33	5140.61	5119.19	5108.17	5082.88	5071.26	5041.74	5046.69	5032.37	5033.06	5056.72
34	5078.35	5057.60	5045.24	5017.59	5007.15	4975.02	4981.55	4968.60	4968.16	4993.22
35	5013.63	4988.59	4978.77	4949.58	4942.73	4911.27	4914.18	4900.08	4903.55	4926.93
36	4947.47	4924.89	4909.55	4882.14	4873.49	4841.92	4844.93	4834.32	4836.35	4861.45

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37	4880.15	4854.83	4840.95	4814.91	4803.28	4770.60	4777.02	4763.55	4767.40	4792.15
38	4809.37	4785.36	4770.21	4744.17	4730.27	4700.50	4704.16	4689.85	4696.38	4721.11
39	4738.37	4710.99	4697.65	4668.16	4656.05	4623.70	4629.97	4617.04	4620.90	4647.56
40	4664.88	4639.55	4620.79	4592.06	4578.16	4548.01	4551.19	4541.00	4547.69	4571.50
41	4591.29	4559.22	4545.61	4513.98	4503.86	4468.54	4474.92	4463.19	4470.67	4500.13
42	4512.96	4484.02	4467.63	4434.97	4423.19	4389.21	4395.79	4384.89	4390.15	4418.74
43	4432.45	4403.03	4384.16	4353.76	4339.93	4308.03	4313.08	4300.76	4310.64	4338.57
44	4351.20	4319.35	4304.75	4265.68	4255.82	4224.58	4226.73	4217.61	4227.01	4255.79
45	4267.71	4236.16	4216.53	4180.72	4169.53	4137.52	4142.36	4133.24	4139.68	4171.84
46	4184.10	4147.67	4128.43	4091.45	4080.18	4051.62	4054.05	4047.28	4053.20	4085.69
47	4093.84	4058.76	4038.03	4002.04	3989.30	3958.94	3963.37	3956.83	3965.73	3998.03
48	4004.68	3969.50	3947.02	3910.64	3897.77	3866.24	3873.30	3866.48	3873.70	3907.00
49	3913.19	3873.39	3853.94	3815.72	3806.29	3771.43	3782.18	3773.02	3783.38	3816.67
50	3818.06	3779.00	3756.30	3720.94	3709.92	3681.13	3687.26	3680.49	3689.43	3725.19
51	3724.82	3682.49	3662.56	3625.26	3613.40	3583.17	3593.26	3585.89	3596.29	3629.71
52	3627.18	3586.13	3563.49	3528.04	3517.59	3486.85	3500.10	3487.62	3503.46	3534.75
53	3529.17	3488.60	3468.44	3428.36	3421.22	3388.85	3397.50	3393.63	3405.16	3438.75
54	3431.95	3388.54	3370.30	3329.18	3320.74	3291.56	3301.07	3295.26	3308.71	3342.25
55	3334.14	3291.32	3271.59	3231.56	3222.78	3190.03	3203.12	3198.56	3211.26	3245.76
56	3235.06	3191.91	3171.50	3130.89	3124.60	3092.36	3105.20	3102.28	3113.41	3147.25
57	3135.05	3090.19	3071.57	3031.07	3026.50	2995.14	3008.28	3002.73	3015.50	3052.98
58	3035.48	2989.72	2971.96	2932.44	2925.96	2894.09	2910.56	2906.93	2918.93	2951.71
59	2934.46	2890.62	2873.16	2834.30	2827.83	2798.24	2813.38	2808.22	2821.72	2855.31
60	2835.65	2793.41	2775.49	2737.52	2730.58	2701.78	2715.68	2712.38	2724.08	2758.00
61	2736.12	2693.59	2676.12	2639.09	2633.70	2605.76	2620.59	2615.55	2627.24	2660.23
62	2637.76	2595.91	2579.29	2542.03	2538.76	2509.08	2524.87	2519.16	2531.36	2565.47
63	2540.41	2498.52	2483.40	2448.23	2443.16	2416.12	2428.66	2425.55	2438.10	2470.91
64	2442.76	2403.81	2388.50	2352.76	2348.34	2322.75	2336.59	2331.51	2344.87	2376.38
65	2346.89	2308.07	2292.03	2258.17	2254.85	2228.36	2243.23	2240.94	2251.71	2283.13
66	2253.10	2214.97	2201.79	2165.21	2160.55	2136.98	2153.75	2148.27	2160.56	2191.86
67	2161.39	2124.76	2110.15	2073.70	2070.74	2046.02	2064.47	2060.09	2069.35	2100.96
68	2069.52	2032.21	2020.80	1981.18	1984.35	1955.56	1979.68	1969.22	1980.38	2012.82
69	1982.99	1941.26	1934.82	1892.55	1897.96	1867.52	1894.88	1881.07	1890.64	1928.23
70	1896.46	1853.25	1848.78	1802.95	1811.54	1780.29	1809.98	1795.80	1803.18	1843.56
71	1809.92	1764.79	1760.07	1714.71	1722.72	1694.38	1721.83	1708.07	1716.41	1755.49
72	1721.74	1678.26	1673.76	1628.38	1635.96	1608.63	1636.51	1622.71	1630.68	1669.37
73	1634.72	1591.75	1586.40	1542.69	1551.07	1523.64	1552.44	1538.36	1544.49	1583.25
74	1548.13	1506.72	1501.16	1458.80	1465.67	1440.12	1467.75	1455.31	1462.04	1498.58
75	1464.80	1423.63	1418.74	1376.53	1383.14	1358.44	1385.57	1372.40	1378.66	1413.61
76	1380.77	1341.35	1336.40	1295.07	1301.65	1277.59	1304.22	1290.93	1296.69	1331.74
77	1298.95	1260.40	1255.20	1214.80	1219.63	1195.60	1223.62	1209.73	1213.65	1248.46
78	1215.68	1177.48	1170.62	1131.97	1136.87	1114.27	1139.91	1126.63	1131.13	1166.41
79	1132.29	1094.98	1089.08	1050.91	1053.54	1032.54	1058.42	1045.62	1049.51	1084.92
80	1049.09	1013.59	1007.04	970.38	973.19	953.75	978.58	966.07	968.24	1003.21
81	966.85	933.81	927.83	891.60	893.57	876.13	900.70	888.04	891.52	924.42
82	885.58	853.90	847.69	812.84	815.17	798.54	822.66	810.04	814.87	846.43
83	808.29	773.99	768.77	734.09	737.93	720.95	744.01	732.04	738.21	771.85
84	730.81	694.08	689.18	655.64	660.43	641.47	664.98	652.30	658.53	696.69
85	651.61	613.35	607.89	575.25	581.51	562.75	584.93	573.54	580.18	616.90
86	573.24	537.05	532.90	501.63	506.92	489.64	511.10	499.34	506.54	540.98
87	499.44	463.44	459.34	427.79	434.08	414.56	437.02	425.97	432.48	466.39
88	426.19	389.61	384.26	352.60	358.00	338.16	360.93	348.43	356.98	392.04
89	349.22	313.83	310.48	298.24	301.21	297.41	307.32	304.40	306.94	319.28
90	295.48	283.91	282.93	272.87	276.56	271.92	281.40	278.56	281.28	292.70
91	270.52	259.66	258.72	249.90	252.91	248.65	257.10	255.00	257.23	267.90
92	247.71	237.28	237.47	228.20	232.35	226.87	235.83	232.84	235.02	244.79

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93	227.20	215.97	216.23	207.95	211.79	206.82	214.57	212.38	214.50	224.52
94	206.70	196.86	195.06	189.15	191.28	187.94	193.34	193.28	195.18	204.26
95	186.32	178.81	176.33	171.97	173.43	170.61	175.34	175.64	177.37	184.05
96	169.64	161.96	159.85	155.49	157.44	154.61	158.02	158.87	160.64	166.69
97	153.60	146.51	143.84	140.45	142.29	139.29	139.29	103.29	123.99	143.21
98	138.70	131.92	129.51	126.62	128.14	123.39	61.97	63.55	59.41	111.11
99	125.00	118.54	115.95	113.52	115.06	102.79	34.24	3.01	61.26	76.86
100	111.78	106.01	103.75	101.30	102.83	83.33	14.08	4.57	64.15	42.60
101	97.90	94.61	92.20	90.73	91.00	63.90	35.07	22.24	67.03	11.40
102	83.30	84.19	81.59	80.20	78.33	44.47	44.85	40.30	69.92	55.41
103	69.06	73.79	72.03	69.66	65.90	31.95	46.74	58.37	72.81	63.49
104	55.07	63.40	62.90	60.54	52.97	21.94	50.30	51.22	63.95	55.45
105	43.53	53.50	54.78	51.85	41.46	12.96	49.33	44.13	55.39	48.12
106	33.38	44.72	47.33	43.26	31.38	12.22	46.49	37.52	47.68	41.33
107	25.12	36.45	40.49	35.41	22.64	14.72	40.94	31.53	40.53	35.22
108	16.87	28.75	33.78	28.11	13.90	15.23	34.67	26.18	33.97	29.72
109	8.64	21.61	27.13	21.02	5.29	15.08	29.00	21.34	27.93	25.28
110	4.00	14.83	20.48	14.10	3.59	14.39	24.31	17.03	22.55	20.85
111	4.50	10.87	13.78	10.35	3.75	13.25	19.61	13.33	17.73	16.44
112	4.45	6.91	5.11	6.70	3.77	11.65	14.94	10.12	13.53	12.95
113	4.31	2.95	2.67	3.05	3.72	9.45	11.24	7.81	10.06	9.82
114	4.18	2.94	2.69	2.96	3.73	7.24	8.06	5.52	7.82	7.20
115	4.04	2.94	2.71	2.95	3.65	5.03	5.53	4.09	5.61	5.11
116	3.84	2.95	2.73	2.96	3.52	3.82	3.83	3.33	4.02	3.61
117	3.58	2.96	2.75	2.97	3.34	3.38	3.34	3.08	3.04	2.89
118	3.28	2.98	2.79	2.98	3.30	3.37	3.35	3.09	2.82	2.70
119	3.20	3.01	2.83	3.00	3.32	3.40	3.37	3.15	2.90	2.74
120	3.23	3.05	2.87	3.03	3.35	3.44	3.39	3.22	3.00	2.78
121	3.27	3.09	2.92	3.06	3.39	3.48	3.43	3.28	3.05	2.81
122	3.33	3.15	2.98	3.10	3.43	3.52	3.49	3.33	3.06	2.85
123	3.40	3.21	3.05	3.15	3.48	3.56	3.55	3.38	3.12	2.91
124	3.48	3.29	3.13	3.23	3.53	3.59	3.62	3.45	3.16	2.98
125	3.57	3.41	3.21	3.33	3.58	3.64	3.68	3.50	3.19	3.02
126	3.65	3.53	3.30	3.42	3.63	3.69	3.75	3.49	3.15	3.04
127	3.74	3.63	3.42	3.51	3.70	3.74	3.83	3.53	2.91	3.00
128	3.84	3.74	3.55	3.61	3.79	3.81	3.91	3.73	2.88	2.99
129	3.93	3.84	3.65	3.71	3.87	3.88	3.98	3.88	3.26	3.01
130	4.02	3.95	3.75	3.81	3.98	3.97	4.06	4.03	3.38	3.05
131	4.13	4.06	3.86	3.92	4.07	4.08	4.15	4.17	3.44	3.11
132	4.23	4.17	3.96	4.03	4.14	4.19	4.24	4.27	3.51	3.19
133	4.32	4.28	4.08	4.13	4.21	4.27	4.35	4.35	3.57	3.29
134	4.41	4.37	4.22	4.22	4.26	4.33	4.44	4.44	3.59	3.41
135	4.50	4.47	4.35	4.29	4.31	4.39	4.52	4.51	3.64	3.51
136	4.60	4.55	4.44	4.36	4.37	4.45	4.56	4.56	3.70	3.57
137	4.70	4.63	4.52	4.44	4.44	4.53	4.57	4.62	3.77	3.65
138	4.80	4.72	4.59	4.52	4.51	4.63	4.60	4.67	3.83	3.69
139	4.91	4.82	4.66	4.61	4.59	4.74	4.66	4.70	3.88	3.71
140	5.00	4.92	4.74	4.70	4.69	4.81	4.76	4.72	3.87	3.69
141	5.09	5.00	4.85	4.79	4.79	4.89	4.86	4.76	3.74	3.66
142	5.17	5.09	4.97	4.89	4.91	4.96	4.93	4.55	3.70	3.43
143	5.27	5.18	5.06	4.97	5.04	5.04	5.01	4.52	3.42	3.36
144	5.36	5.27	5.15	5.04	5.15	5.12	5.08	4.74	3.43	3.43
145	5.46	5.30	5.23	5.12	5.25	5.20	5.10	4.86	3.63	3.57
146	5.54	5.34	5.31	5.21	5.31	5.28	5.16	5.27	3.72	3.92
147	5.62	5.44	5.37	5.34	5.37	5.37	5.24	5.45	4.09	4.06
148	5.68	5.54	5.46	5.45	5.45	5.49	5.37	5.55	4.17	4.11

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CANDELA TABULATION - (Cont.)

149	5.76	5.65	5.55	5.54	5.54	5.61	5.51	5.64	4.21	4.16
150	5.83	5.75	5.61	5.64	5.61	5.76	5.67	5.74	4.26	4.22
151	5.88	5.83	5.68	5.74	5.67	5.90	5.75	5.84	4.31	4.28
152	5.92	5.88	5.75	5.80	5.71	5.94	5.83	5.91	4.36	4.32
153	6.01	5.95	5.83	5.85	5.80	5.90	5.90	5.93	4.37	4.31
154	6.10	5.96	5.85	5.84	5.93	5.91	6.00	5.96	4.33	4.32
155	6.18	6.05	5.87	5.85	6.02	5.99	6.05	6.02	4.36	4.35
156	6.26	6.09	5.91	5.85	6.05	6.04	6.13	6.10	4.38	4.39
157	6.28	6.12	5.95	5.99	6.00	6.09	6.26	6.20	4.44	4.46
158	6.26	6.23	6.01	6.06	5.98	6.09	6.36	6.32	4.55	4.59
159	6.31	6.27	6.03	6.12	5.99	6.10	6.43	6.39	4.63	4.65
160	6.36	6.25	6.02	6.13	6.01	6.07	6.44	6.39	4.66	4.68
161	6.39	6.21	5.99	6.12	6.05	6.04	6.38	6.37	4.64	4.67
162	6.48	6.18	5.96	6.11	6.04	5.95	6.29	6.35	4.61	4.62
163	6.44	6.22	5.98	6.10	6.06	5.96	6.25	6.26	4.54	4.51
164	6.43	6.24	6.07	5.92	6.07	6.02	6.22	6.18	4.46	4.47
165	6.42	6.23	6.00	5.82	6.04	6.03	6.10	6.10	4.44	4.47
166	6.44	6.22	5.98	5.78	6.01	6.06	6.08	6.04	4.44	4.50
167	6.46	6.19	6.00	5.78	5.99	6.10	6.12	6.08	4.46	4.62
168	6.49	6.13	5.94	5.81	5.90	6.11	6.14	6.12	4.58	4.76
169	6.44	6.09	5.91	5.87	5.85	6.09	6.13	6.11	4.63	4.82
170	6.37	5.95	5.84	5.86	5.76	5.99	6.18	6.09	4.68	4.84
171	6.28	5.79	5.70	5.76	5.69	5.83	6.09	6.08	4.70	4.85
172	6.19	5.75	5.62	5.69	5.67	5.79	6.01	6.05	4.71	4.84
173	6.04	5.70	5.51	5.68	5.50	5.69	5.98	5.98	4.77	4.87
174	5.85	5.57	5.39	5.54	5.38	5.64	5.81	5.94	4.86	5.01
175	5.73	5.48	5.30	5.45	5.34	5.56	5.72	5.76	5.06	5.16
176	5.58	5.46	5.23	5.33	5.17	5.41	5.56	5.61	5.17	5.32
177	5.51	5.30	5.19	5.17	5.09	5.28	5.46	5.50	5.25	5.42
178	5.33	5.17	5.10	5.02	5.03	5.19	5.26	5.42	5.31	5.46
179	5.18	5.02	5.02	4.86	4.96	5.07	5.12	5.27	5.34	5.41
180	4.78	4.78	4.78	4.78	4.78	4.78	4.78	4.78	4.78	4.78

Vert. Angles **Horizontal Angles**

	<u>300</u>	<u>315</u>	<u>330</u>	<u>345</u>	<u>360</u>
0	5954.11	5954.11	5954.11	5954.11	5954.11
1	5952.36	5950.06	5948.59	5948.43	5949.95
2	5953.35	5948.73	5947.08	5948.04	5945.88
3	5953.03	5949.75	5948.39	5945.43	5943.11
4	5957.40	5951.14	5950.12	5947.72	5944.74
5	5959.43	5952.48	5950.13	5946.75	5944.08
6	5962.77	5954.83	5952.82	5948.81	5949.77
7	5959.20	5956.21	5956.16	5950.14	5948.48
8	5959.45	5958.46	5954.91	5950.80	5952.21
9	5951.11	5953.31	5949.89	5946.72	5946.82
10	5940.54	5945.30	5943.80	5944.65	5941.06
11	5925.74	5929.61	5931.04	5936.62	5937.05
12	5906.63	5912.51	5914.60	5922.41	5920.74
13	5881.99	5889.86	5895.71	5903.93	5903.56
14	5855.16	5864.50	5869.61	5881.56	5884.14
15	5824.66	5837.81	5839.26	5852.37	5858.08
16	5791.84	5803.08	5811.09	5825.59	5830.63
17	5755.16	5768.00	5780.48	5794.00	5802.01
18	5720.67	5735.64	5746.31	5759.17	5768.21
19	5682.83	5701.36	5710.29	5730.70	5736.96

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CANDELA TABULATION - (Cont.)

20	5649.24	5665.08	5673.79	5692.24	5698.86
21	5614.45	5629.01	5641.49	5658.13	5667.61
22	5579.78	5595.81	5603.74	5622.19	5628.73
23	5542.48	5558.87	5571.66	5584.17	5596.93
24	5505.06	5523.03	5534.28	5548.62	5559.74
25	5470.90	5488.03	5495.81	5513.24	5521.51
26	5426.78	5445.13	5459.69	5475.36	5482.44
27	5383.92	5404.55	5419.21	5436.61	5443.62
28	5336.26	5359.25	5374.63	5394.38	5402.37
29	5289.22	5314.38	5329.97	5351.11	5359.93
30	5235.72	5263.89	5279.39	5302.54	5313.67
31	5184.96	5211.08	5231.86	5252.79	5264.32
32	5123.11	5153.76	5174.27	5197.54	5211.18
33	5066.50	5094.76	5118.89	5144.35	5156.55
34	5001.63	5033.85	5058.63	5083.57	5099.09
35	4939.43	4970.42	4995.94	5025.30	5038.88
36	4870.18	4905.71	4934.48	4961.66	4977.29
37	4802.21	4836.80	4863.20	4895.76	4910.36
38	4732.72	4767.32	4796.40	4828.53	4845.12
39	4658.64	4694.02	4726.69	4760.93	4776.66
40	4582.96	4620.58	4653.95	4688.37	4706.33
41	4510.39	4547.70	4576.94	4614.16	4633.32
42	4433.77	4471.44	4499.92	4541.01	4558.65
43	4354.66	4392.20	4423.36	4463.42	4482.32
44	4268.97	4311.35	4342.38	4382.58	4404.66
45	4182.70	4226.94	4261.92	4303.01	4322.97
46	4100.35	4146.43	4176.57	4220.73	4243.02
47	4012.05	4056.45	4092.27	4134.37	4155.84
48	3923.92	3969.82	4003.04	4051.33	4071.86
49	3832.44	3880.14	3912.61	3960.20	3983.53
50	3740.67	3787.21	3820.84	3870.22	3891.89
51	3646.57	3692.69	3728.15	3779.35	3799.72
52	3554.29	3598.03	3632.83	3685.79	3704.96
53	3456.48	3504.46	3540.60	3586.95	3613.31
54	3360.78	3406.75	3442.77	3493.87	3515.75
55	3263.48	3309.48	3346.07	3396.52	3418.16
56	3166.61	3212.46	3246.16	3297.60	3321.16
57	3068.50	3114.13	3148.52	3201.64	3223.28
58	2970.49	3015.14	3049.02	3101.69	3123.39
59	2872.54	2917.47	2950.47	3002.80	3025.56
60	2776.26	2818.36	2850.52	2901.80	2924.68
61	2677.76	2722.40	2754.81	2804.73	2826.60
62	2582.96	2623.32	2654.77	2704.70	2727.13
63	2486.58	2527.08	2557.93	2606.93	2628.25
64	2391.22	2432.52	2460.69	2509.53	2529.05
65	2298.43	2336.49	2366.03	2413.27	2432.95
66	2204.22	2243.18	2271.58	2315.95	2337.47
67	2113.09	2151.20	2177.67	2224.01	2241.31
68	2022.42	2061.74	2084.96	2129.47	2148.44
69	1932.31	1975.20	1994.38	2038.76	2053.88
70	1843.66	1888.66	1903.76	1951.55	1964.20
71	1755.48	1802.08	1814.43	1864.34	1872.22
72	1669.91	1714.01	1726.53	1777.14	1784.04
73	1582.98	1628.43	1639.03	1690.28	1694.37
74	1498.93	1542.45	1553.66	1602.85	1608.46
75	1416.01	1458.13	1468.78	1516.62	1522.19

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CANDELA TABULATION - (Cont.)

76	1333.75	1375.25	1385.97	1432.47	1440.67
77	1250.96	1292.32	1304.74	1349.81	1356.86
78	1170.16	1210.66	1222.76	1269.34	1276.44
79	1087.72	1128.71	1140.76	1188.13	1195.71
80	1008.32	1047.36	1060.31	1107.44	1115.55
81	926.50	968.02	981.85	1028.26	1037.19
82	852.10	889.14	905.08	948.62	958.90
83	777.85	814.38	828.37	871.71	881.10
84	703.59	738.86	751.66	794.15	803.32
85	623.90	661.52	673.34	716.04	725.53
86	547.91	581.97	592.96	634.05	641.33
87	473.23	507.99	517.49	554.97	561.28
88	398.53	433.10	442.88	478.79	484.76
89	324.11	355.88	365.33	402.87	408.42
90	294.69	306.14	308.28	348.36	328.59
91	269.83	280.43	283.09	294.03	295.63
92	246.21	256.54	258.93	269.41	270.63
93	224.78	235.68	236.76	246.50	247.24
94	204.68	214.82	216.31	226.14	225.71
95	185.85	194.02	197.13	205.77	205.74
96	168.26	176.31	179.16	185.43	186.63
97	142.72	159.48	162.38	168.35	169.43
98	97.52	144.11	146.97	152.29	153.06
99	75.33	129.67	132.61	137.38	138.08
100	53.75	112.49	119.35	123.62	124.25
101	32.17	92.07	106.80	110.84	111.10
102	27.63	72.80	94.83	99.14	99.47
103	30.23	52.79	82.00	88.08	89.21
104	38.85	38.27	69.16	77.81	78.96
105	40.08	28.26	56.32	68.58	68.71
106	39.92	18.24	44.71	59.38	60.18
107	38.67	8.25	34.53	50.39	52.08
108	36.24	9.29	25.18	42.14	44.37
109	32.52	10.82	16.32	34.21	36.69
110	27.25	11.44	11.64	25.55	28.95
111	22.25	11.20	7.00	16.90	21.15
112	17.72	10.64	2.37	8.27	12.57
113	13.65	9.81	2.44	1.81	8.96
114	10.06	8.74	2.47	1.92	5.45
115	7.43	7.42	2.56	1.97	1.94
116	4.80	5.87	2.61	2.02	1.88
117	3.13	4.27	2.64	2.07	1.94
118	2.68	3.11	2.63	2.12	2.01
119	2.71	2.58	2.55	2.17	2.07
120	2.75	2.58	2.54	2.22	2.14
121	2.80	2.63	2.57	2.28	2.19
122	2.85	2.69	2.61	2.34	2.25
123	2.91	2.75	2.66	2.40	2.31
124	2.95	2.82	2.71	2.46	2.36
125	3.00	2.88	2.77	2.52	2.43
126	3.05	2.93	2.83	2.59	2.48
127	3.10	2.98	2.89	2.65	2.53
128	3.15	3.03	2.96	2.71	2.60
129	3.20	3.09	3.03	2.76	2.65
130	3.24	3.14	3.10	2.81	2.71
131	3.28	3.18	3.17	2.86	2.78

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

132	3.34	3.23	3.24	2.93	2.86
133	3.40	3.29	3.29	3.00	2.96
134	3.47	3.34	3.32	3.06	3.04
135	3.53	3.38	3.35	3.10	3.11
136	3.57	3.41	3.37	3.15	3.16
137	3.59	3.45	3.40	3.20	3.20
138	3.58	3.52	3.43	3.26	3.26
139	3.62	3.59	3.47	3.34	3.34
140	3.67	3.65	3.51	3.42	3.41
141	3.72	3.70	3.56	3.50	3.49
142	3.76	3.71	3.62	3.59	3.55
143	3.81	3.73	3.70	3.68	3.63
144	3.87	3.77	3.78	3.76	3.68
145	3.86	3.78	3.85	3.83	3.73
146	3.83	3.78	3.89	3.87	3.78
147	3.83	3.79	3.90	3.90	3.85
148	3.88	3.86	3.92	3.92	3.89
149	3.95	3.91	3.95	3.94	3.91
150	4.03	3.96	3.94	3.94	3.92
151	4.14	4.01	3.91	3.94	3.92
152	4.17	4.05	3.86	3.95	3.95
153	4.20	4.04	3.87	3.97	3.98
154	4.24	4.00	3.90	3.99	4.00
155	4.30	4.00	3.97	4.02	4.00
156	4.35	4.01	4.04	4.07	4.02
157	4.39	4.01	4.02	4.13	4.07
158	4.45	4.08	3.98	4.18	4.11
159	4.51	4.13	3.99	4.20	4.12
160	4.51	4.14	4.01	4.16	4.02
161	4.45	4.10	4.07	4.16	3.92
162	4.41	4.07	4.17	4.16	3.90
163	4.41	4.11	4.20	4.18	3.97
164	4.43	4.17	4.23	4.23	4.09
165	4.40	4.27	4.26	4.22	4.13
166	4.49	4.36	4.29	4.24	4.17
167	4.57	4.52	4.34	4.24	4.24
168	4.66	4.62	4.41	4.27	4.26
169	4.77	4.69	4.39	4.35	4.33
170	4.85	4.77	4.38	4.40	4.34
171	4.82	4.74	4.40	4.43	4.30
172	4.80	4.76	4.53	4.47	4.28
173	4.90	4.87	4.61	4.56	4.36
174	5.00	4.96	4.69	4.63	4.39
175	5.19	5.09	4.85	4.66	4.52
176	5.30	5.16	4.83	4.77	4.59
177	5.40	5.21	4.91	4.88	4.72
178	5.44	5.29	5.02	4.97	4.71
179	5.36	5.28	5.12	4.98	4.74
180	4.78	4.78	4.78	4.78	4.78

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2220.3	11.70	11.70
0-30	4762.4	25.00	25.00
0-40	7887.76	41.40	41.40
0-60	14148.88	74.30	74.30
0-80	18039.02	94.70	94.70
0-90	18767.88	98.50	98.50
10-90	18198.46	95.60	95.50
20-40	5667.46	29.80	29.80
20-50	8948.00	47.00	47.00
40-70	8598.55	45.10	45.10
60-80	3890.14	20.40	20.40
70-80	1552.7	8.20	8.20
80-90	728.87	3.80	3.80
90-110	257.75	1.40	1.40
90-120	265.53	1.40	1.40
90-130	268.37	1.40	1.40
90-150	274.16	1.40	1.40
90-180	278.53	1.50	1.50
110-180	20.78	0.10	0.10
0-180	19046.41	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	569.42
10-20	1650.88
20-30	2542.1
30-40	3125.36
40-50	3280.53
50-60	2980.59
60-70	2337.44
70-80	1552.7
80-90	728.87
90-100	204.10
100-110	53.65
110-120	7.79
120-130	2.84
130-140	2.99
140-150	2.80
150-160	2.35
160-170	1.51
170-180	0.50

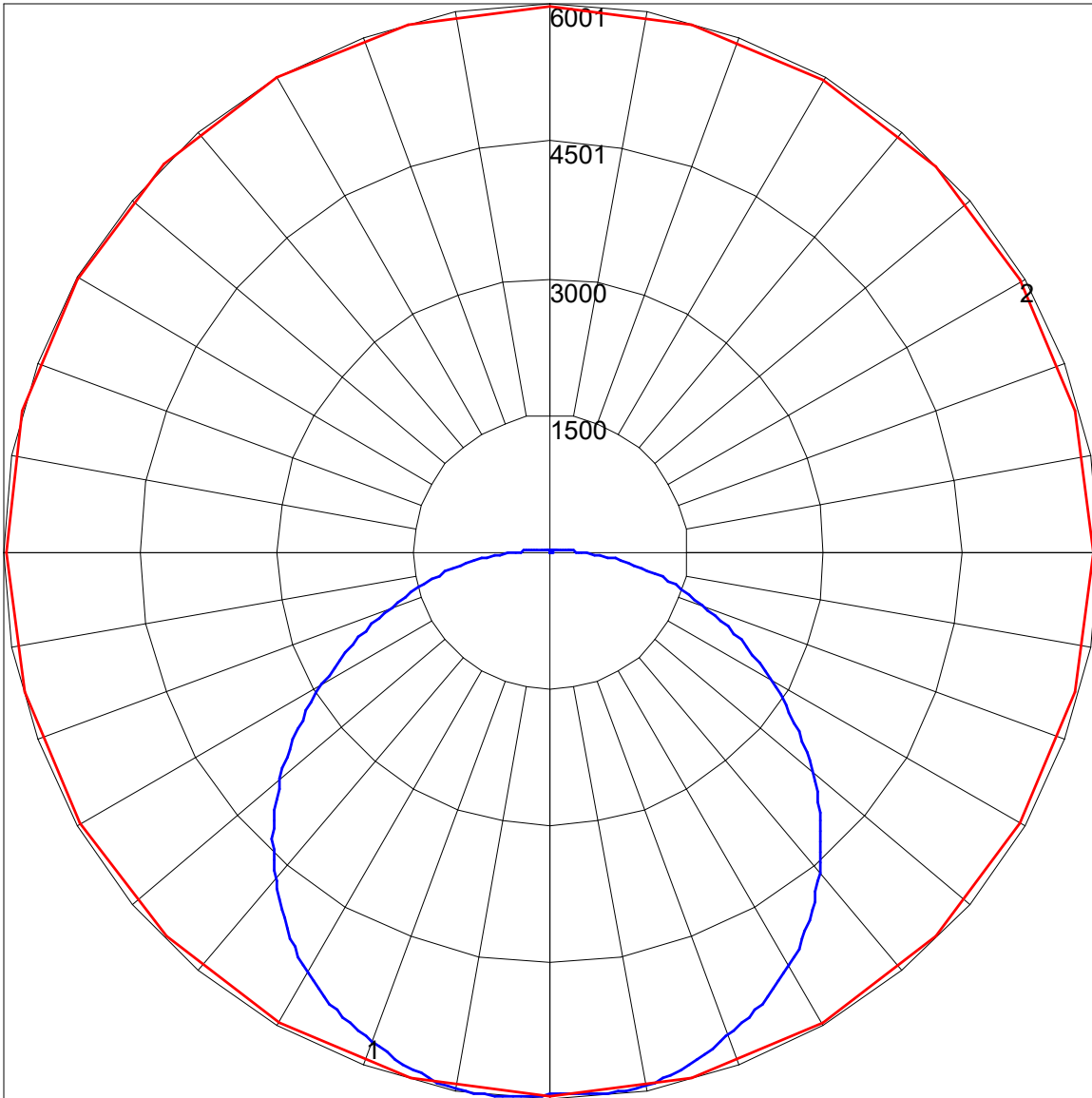
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101	99
1	107	102	97	93	104	100	95	92	95	92	88	91	88	85	87	85	83	80
2	97	88	81	75	94	86	80	74	83	77	72	79	74	70	76	72	68	66
3	88	77	69	62	86	76	68	61	72	66	60	69	64	59	67	62	58	55
4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	59	54	49	47
5	74	61	52	45	72	60	51	44	57	50	44	55	48	43	53	47	43	40
6	68	55	46	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35
7	63	50	41	34	62	49	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	30	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25
10	52	38	30	25	50	38	30	25	36	29	24	35	29	24	34	28	24	22

POLAR GRAPH



Maximum Candela = 6000.79 Located At Horizontal Angle = 120, Vertical Angle = 7
1 - Vertical Plane Through Horizontal Angles (120 - 300) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (7) (Through Max. Cd.)