



IES INDOOR REPORT
PHOTOMETRIC FILENAME : HBULED140DHVWH50.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 20:37:59
 [NEARFIELD]
 [LAMPPOSITION] 0,0
 [OTHER] EVERFINE GO-R5000_V2 SYSTEM
 [MANUFAC] MOBERN LIGHTING CO.
 [LUMCAT] HBULED140DHVWH50
 [LUMINAIRE] LED
 [BALLAST] 347-480Vac,50/60Hz
 [OTHER]

[OTHER] Gamma(deg)	Fz(lm)	Ft(lm)	%Lum	%Lamp
[OTHER] 0- 10	572.43	572.43	2.99	2.99
[OTHER] 10- 20	1662.16	2234.58	11.67	11.67
[OTHER] 20- 30	2564.91	4799.49	25.06	25.06
[OTHER] 30- 40	3156.91	7956.40	41.55	41.55
[OTHER] 40- 50	3313.34	11269.74	58.85	58.85
[OTHER] 50- 60	3002.96	14272.69	74.53	74.53
[OTHER] 60- 70	2344.23	16616.92	86.77	86.77
[OTHER] 70- 80	1545.85	18162.77	94.85	94.85
[OTHER] 80- 90	707.53	18870.30	98.54	98.54
[OTHER] 90-100	204.86	19075.16	99.61	99.61
[OTHER] 100-110	53.49	19128.65	99.89	99.89
[OTHER] 110-120	7.83	19136.47	99.93	99.93
[OTHER] 120-130	2.87	19139.34	99.95	99.95
[OTHER] 130-140	3.02	19142.36	99.96	99.96
[OTHER] 140-150	2.81	19145.17	99.98	99.98
[OTHER] 150-160	2.34	19147.51	99.99	99.99
[OTHER] 160-170	1.51	19149.02	100.00	100.00
[OTHER] 170-180	0.51	19149.53	100.00	100.00
[OTHER]				

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CHARACTERISTICS

Lumens Per Lamp	19150 (1 lamp)
Total Lamp Lumens	19150
Luminaire Lumens	19150
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	138
Total Luminaire Watts	138.699
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.32
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	47239	47124	47924
55	45147	44871	45932
65	42728	42125	43454
75	42412	41568	43372
85	53172	50826	54227

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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	5981.62	5981.62	5981.62	5981.62	5981.62	5981.62	5981.62	5981.62	5981.62	5981.62
1	5982.60	5984.04	5982.96	5982.76	5983.05	5984.79	5981.86	5986.19	5988.20	5992.18
2	5976.95	5980.57	5981.93	5985.95	5986.93	5988.80	5991.61	5993.55	5995.71	5998.77
3	5978.30	5984.14	5986.54	5988.43	5990.92	5992.59	5995.28	6000.77	6007.66	6009.22
4	5981.14	5986.59	5987.65	5990.71	5997.03	6001.66	6003.28	6010.80	6014.17	6018.65
5	5984.67	5985.28	5987.30	5995.27	6000.60	6005.65	6011.92	6019.73	6021.36	6026.53
6	5980.59	5987.97	5986.25	5997.94	6000.29	6009.84	6012.68	6022.92	6028.73	6035.68
7	5984.03	5983.95	5984.45	5990.52	5998.86	6008.32	6014.75	6025.11	6030.47	6036.29
8	5977.70	5978.93	5982.34	5987.80	5993.91	6004.39	6012.86	6021.32	6029.21	6036.64
9	5967.67	5970.53	5970.38	5976.86	5984.77	5996.00	6005.82	6012.33	6021.00	6026.71
10	5956.77	5959.96	5956.53	5964.82	5971.58	5981.20	5992.74	6001.07	6010.76	6017.59
11	5941.76	5942.10	5939.91	5948.98	5958.94	5963.62	5975.31	5984.56	5995.77	5998.04
12	5922.65	5918.53	5916.34	5926.21	5934.37	5942.19	5955.25	5964.78	5973.84	5978.93
13	5898.84	5896.24	5892.76	5901.46	5911.35	5919.04	5933.84	5938.66	5951.02	5955.20
14	5870.98	5868.10	5868.46	5871.83	5883.56	5894.39	5904.75	5908.52	5922.16	5926.72
15	5838.39	5840.12	5838.39	5848.45	5855.69	5861.93	5877.59	5878.02	5893.41	5897.74
16	5813.52	5810.13	5808.31	5811.25	5824.67	5832.25	5843.51	5848.26	5862.93	5867.86
17	5780.08	5775.61	5777.44	5784.17	5794.10	5799.26	5813.18	5818.07	5830.72	5838.59
18	5742.42	5747.12	5740.76	5751.57	5763.46	5767.61	5782.74	5786.02	5802.20	5806.27
19	5713.24	5710.45	5709.64	5720.08	5730.31	5735.03	5752.57	5753.95	5769.50	5777.40
20	5674.34	5678.15	5677.28	5687.19	5697.93	5704.37	5720.47	5722.18	5739.32	5745.94
21	5643.65	5643.09	5645.13	5654.30	5662.01	5670.28	5686.67	5688.76	5711.99	5717.17
22	5610.68	5609.35	5611.25	5618.92	5628.92	5635.48	5652.62	5654.76	5679.04	5685.73
23	5573.83	5573.68	5574.95	5582.92	5593.67	5603.74	5618.62	5624.11	5646.17	5654.47
24	5536.87	5536.41	5535.66	5544.81	5555.54	5566.84	5583.14	5590.26	5613.45	5620.03
25	5496.58	5497.12	5496.48	5506.19	5515.45	5528.10	5549.52	5553.85	5574.66	5583.58
26	5456.86	5455.75	5453.23	5461.51	5475.16	5490.14	5510.07	5513.12	5538.74	5544.77
27	5415.28	5411.44	5408.95	5416.57	5429.26	5444.80	5467.33	5469.51	5500.87	5503.77
28	5366.75	5365.13	5358.58	5369.67	5385.35	5396.88	5419.96	5427.38	5453.56	5459.90
29	5316.78	5313.35	5307.07	5320.27	5332.75	5348.85	5374.60	5375.48	5407.94	5410.40
30	5264.18	5262.19	5249.85	5268.59	5277.97	5299.56	5320.58	5326.32	5354.10	5357.46
31	5210.99	5204.31	5195.10	5209.73	5225.68	5242.68	5265.79	5269.64	5299.21	5302.44
32	5154.66	5144.68	5136.23	5149.24	5166.14	5185.48	5210.83	5213.03	5244.42	5245.11
33	5093.59	5083.24	5075.72	5084.93	5105.00	5127.37	5150.53	5153.74	5184.61	5184.20
34	5027.98	5019.29	5012.77	5023.68	5042.93	5064.53	5087.20	5088.13	5124.00	5121.19
35	4962.30	4954.77	4946.39	4954.54	4975.30	4996.77	5021.39	5024.24	5056.31	5054.96
36	4893.64	4886.51	4878.05	4889.12	4906.69	4929.79	4953.21	4955.81	4990.04	4990.77
37	4825.81	4818.19	4806.25	4818.13	4836.76	4859.76	4884.28	4884.91	4921.34	4919.54
38	4754.31	4746.92	4738.02	4747.12	4765.86	4787.12	4814.04	4814.99	4850.60	4849.66
39	4680.72	4673.75	4662.59	4673.41	4693.28	4713.24	4739.23	4743.86	4777.25	4776.82
40	4604.42	4598.45	4585.34	4599.15	4616.00	4640.19	4666.58	4669.12	4703.84	4704.79
41	4528.60	4522.23	4508.99	4521.05	4536.26	4559.81	4589.18	4593.89	4626.78	4629.11
42	4447.17	4442.24	4429.14	4438.03	4457.38	4479.86	4509.41	4514.03	4550.03	4551.23
43	4367.13	4360.89	4345.54	4358.62	4373.24	4399.49	4431.12	4432.41	4469.29	4472.01
44	4284.23	4277.05	4262.63	4274.98	4289.64	4315.83	4347.50	4348.96	4388.45	4391.43
45	4199.37	4190.83	4178.47	4189.11	4205.85	4232.39	4260.25	4264.07	4304.01	4305.33
46	4111.96	4103.29	4090.33	4100.37	4118.00	4142.62	4173.00	4175.53	4217.15	4221.01
47	4023.22	4013.40	3998.50	4009.73	4023.92	4050.81	4083.90	4087.49	4128.16	4130.26
48	3933.16	3923.19	3908.02	3917.78	3934.31	3959.11	3994.92	3996.66	4036.05	4040.06
49	3838.64	3829.82	3813.98	3823.13	3838.19	3864.74	3901.74	3903.35	3944.89	3947.37
50	3745.11	3734.56	3716.95	3727.09	3742.46	3770.49	3806.14	3808.03	3850.32	3854.71
51	3649.09	3638.75	3621.68	3630.29	3643.47	3673.05	3711.46	3710.93	3753.58	3754.84
52	3554.47	3541.08	3521.85	3535.10	3547.30	3573.48	3610.35	3613.52	3655.55	3657.97
53	3454.15	3443.50	3425.37	3435.44	3448.76	3474.31	3512.64	3514.96	3559.06	3562.18

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54	3353.69	3345.93	3324.22	3335.89	3348.03	3374.41	3413.22	3416.74	3460.89	3461.16
55	3255.50	3244.60	3226.47	3235.56	3249.41	3273.53	3312.10	3314.94	3361.67	3360.24
56	3158.13	3144.84	3124.80	3134.85	3145.99	3173.16	3212.88	3213.25	3260.15	3259.11
57	3057.63	3043.58	3025.89	3030.25	3045.33	3071.25	3111.99	3112.17	3158.20	3158.18
58	2957.52	2943.90	2922.50	2930.73	2945.56	2970.23	3007.85	3009.03	3055.17	3056.99
59	2857.41	2842.35	2822.75	2831.42	2843.85	2867.60	2906.70	2908.56	2953.87	2953.93
60	2756.69	2745.12	2720.44	2730.76	2743.73	2768.35	2807.02	2806.89	2851.84	2854.75
61	2659.59	2642.64	2621.66	2628.64	2643.42	2668.39	2705.82	2705.93	2750.95	2750.49
62	2561.53	2546.00	2523.10	2533.22	2544.49	2568.13	2604.28	2605.03	2650.56	2651.94
63	2461.06	2447.30	2423.47	2431.18	2446.17	2467.06	2505.58	2505.84	2550.23	2553.07
64	2365.01	2350.28	2326.21	2336.32	2347.74	2370.15	2408.29	2407.87	2451.56	2453.23
65	2270.15	2254.32	2231.15	2238.10	2251.53	2274.36	2308.75	2309.83	2353.81	2355.62
66	2173.19	2160.11	2136.87	2144.52	2155.35	2178.92	2214.46	2214.14	2257.97	2257.98
67	2081.76	2071.41	2042.87	2055.54	2061.98	2088.83	2118.84	2118.51	2161.90	2163.55
68	1989.25	1982.72	1950.68	1966.56	1966.74	1998.74	2028.99	2023.85	2072.09	2069.31
69	1900.59	1894.01	1859.48	1877.51	1876.67	1908.62	1939.16	1930.19	1982.28	1976.13
70	1808.47	1804.28	1770.43	1786.20	1786.59	1817.49	1851.47	1838.52	1892.41	1885.39
71	1721.24	1715.98	1682.34	1697.64	1696.41	1727.71	1759.60	1749.10	1800.50	1794.55
72	1633.09	1627.57	1594.72	1608.89	1610.94	1637.91	1670.10	1659.85	1710.30	1705.97
73	1547.89	1542.19	1509.81	1522.07	1523.24	1550.79	1582.71	1572.79	1621.77	1616.53
74	1464.34	1457.35	1425.63	1438.40	1437.53	1465.63	1496.93	1485.96	1534.21	1530.16
75	1380.01	1373.95	1342.08	1352.55	1353.78	1379.36	1411.24	1399.72	1447.33	1443.33
76	1298.42	1289.93	1259.38	1268.34	1268.74	1294.13	1326.10	1316.55	1362.19	1357.44
77	1216.13	1208.38	1175.83	1183.58	1184.35	1209.81	1241.56	1231.76	1275.87	1272.87
78	1135.71	1125.82	1093.78	1099.91	1099.14	1125.84	1155.43	1145.64	1187.86	1184.79
79	1053.76	1045.21	1011.35	1015.72	1015.94	1041.09	1070.27	1061.63	1102.17	1100.36
80	975.72	964.67	933.52	933.78	937.01	958.61	986.27	979.14	1017.30	1014.40
81	897.37	886.48	855.83	855.29	858.14	878.68	905.14	898.24	934.44	933.64
82	819.01	807.95	778.15	777.71	779.27	798.08	825.64	817.37	854.32	853.04
83	740.65	730.62	703.43	704.90	702.63	720.43	744.90	736.51	775.24	772.43
84	661.55	652.95	628.58	632.78	629.66	646.11	666.86	661.75	697.12	695.47
85	582.60	575.11	553.65	556.90	553.68	570.29	594.16	588.74	626.33	624.57
86	505.26	499.86	475.74	479.97	476.82	494.72	518.43	513.17	552.32	551.49
87	428.96	422.14	398.16	403.01	399.61	416.41	440.94	435.70	475.71	475.98
88	349.92	342.17	319.91	323.64	319.21	337.56	361.59	356.29	397.67	399.41
89	302.91	298.33	288.69	288.22	286.87	293.72	303.10	300.67	320.84	321.60
90	277.57	273.56	264.02	263.80	262.73	268.57	277.17	274.48	288.38	289.62
91	254.00	250.47	241.33	242.40	240.08	246.69	253.32	251.08	264.15	265.05
92	232.01	229.02	219.75	220.99	219.28	224.82	232.14	229.17	242.61	241.86
93	211.84	207.64	200.55	199.67	200.13	202.99	210.96	208.82	221.07	220.50
94	192.91	188.80	181.79	181.36	182.10	184.69	189.83	189.77	199.53	200.87
95	175.41	171.39	164.84	164.75	165.61	167.47	171.96	172.46	181.57	182.32
96	158.76	155.29	148.81	149.14	143.64	147.42	155.31	153.34	164.17	165.40
97	143.74	140.07	134.26	134.52	94.03	112.03	137.54	118.61	132.18	149.24
98	129.37	126.26	120.67	120.98	68.87	76.64	104.62	60.53	85.29	134.83
99	116.21	113.07	108.04	105.16	43.94	41.25	71.69	2.23	56.79	118.80
100	104.01	101.23	96.31	88.37	42.16	6.35	38.76	15.75	34.09	99.30
101	93.27	89.98	85.92	71.88	36.04	32.84	6.67	29.30	34.91	81.77
102	82.57	79.71	75.55	56.83	34.41	62.66	50.23	42.85	33.53	64.29
103	71.88	70.10	65.69	43.58	38.07	54.56	69.92	56.40	37.41	46.82
104	62.75	61.27	55.69	33.10	38.31	47.22	61.33	49.02	39.34	33.93
105	54.46	53.22	46.12	25.98	37.49	40.49	53.40	42.19	37.75	23.62
106	46.59	45.48	37.37	18.85	37.34	34.37	46.26	35.98	39.01	14.52
107	39.43	38.47	29.40	11.81	34.84	28.85	39.60	30.23	37.62	13.04
108	32.85	31.89	22.25	8.72	30.64	24.50	33.57	25.25	34.58	11.81
109	27.08	26.45	16.04	9.29	25.45	20.15	28.06	20.75	29.64	10.58

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110	21.74	21.01	10.16	9.48	20.38	15.84	23.47	16.81	24.77	10.91
111	16.99	15.60	6.42	9.34	15.97	12.47	18.87	13.33	19.90	10.87
112	12.89	11.26	2.72	8.83	12.17	9.62	14.30	10.39	15.05	10.38
113	10.17	7.77	2.55	7.91	9.79	7.21	10.74	8.29	11.52	9.44
114	7.47	4.88	2.64	6.58	7.44	5.34	7.77	6.20	8.70	8.09
115	4.77	2.16	2.65	4.91	5.08	3.98	5.40	4.76	6.51	6.27
116	2.07	2.20	2.65	3.56	3.71	3.05	3.79	3.78	4.85	4.54
117	2.03	2.24	2.69	2.77	2.91	2.56	3.36	3.30	3.75	3.54
118	2.09	2.28	2.75	2.67	2.76	2.57	3.41	3.30	3.36	3.27
119	2.15	2.33	2.80	2.72	2.82	2.64	3.48	3.36	3.39	3.30
120	2.21	2.38	2.85	2.78	2.87	2.70	3.58	3.41	3.45	3.36
121	2.26	2.44	2.89	2.84	2.92	2.76	3.64	3.46	3.49	3.41
122	2.32	2.49	2.92	2.89	2.97	2.82	3.70	3.52	3.54	3.48
123	2.37	2.56	2.97	2.95	3.01	2.85	3.76	3.57	3.60	3.55
124	2.43	2.60	3.00	3.01	3.07	2.88	3.76	3.62	3.67	3.64
125	2.49	2.66	3.03	3.08	3.12	2.91	3.77	3.69	3.74	3.72
126	2.54	2.71	3.06	3.14	3.18	2.87	3.77	3.74	3.82	3.82
127	2.60	2.76	3.08	3.19	3.24	2.86	3.64	3.78	3.90	3.91
128	2.66	2.81	3.12	3.24	3.31	2.95	3.60	3.88	3.98	4.00
129	2.71	2.86	3.17	3.28	3.37	3.00	3.99	3.91	4.07	4.10
130	2.77	2.92	3.22	3.32	3.42	3.07	4.12	3.98	4.17	4.20
131	2.84	3.00	3.27	3.37	3.47	3.15	4.22	4.08	4.26	4.31
132	2.93	3.08	3.31	3.42	3.50	3.27	4.33	4.20	4.37	4.43
133	3.02	3.17	3.33	3.47	3.54	3.40	4.44	4.31	4.46	4.54
134	3.11	3.25	3.36	3.51	3.59	3.49	4.54	4.44	4.56	4.63
135	3.18	3.29	3.39	3.55	3.62	3.53	4.60	4.56	4.65	4.72
136	3.23	3.33	3.43	3.59	3.63	3.58	4.63	4.64	4.73	4.81
137	3.28	3.38	3.48	3.64	3.63	3.62	4.68	4.71	4.79	4.87
138	3.34	3.43	3.54	3.70	3.62	3.66	4.76	4.79	4.84	4.94
139	3.43	3.49	3.59	3.75	3.64	3.69	4.83	4.83	4.85	5.00
140	3.50	3.56	3.64	3.80	3.67	3.73	4.89	4.88	4.91	5.07
141	3.57	3.62	3.69	3.81	3.72	3.74	4.96	4.92	5.00	5.15
142	3.64	3.68	3.75	3.83	3.76	3.72	5.01	4.94	5.09	5.23
143	3.70	3.74	3.80	3.86	3.81	3.70	4.93	4.97	5.18	5.30
144	3.75	3.80	3.86	3.89	3.83	3.42	4.94	4.75	5.27	5.38
145	3.79	3.85	3.90	3.91	3.78	3.48	4.81	4.85	5.38	5.46
146	3.84	3.89	3.92	3.93	3.73	3.65	4.99	5.21	5.39	5.53
147	3.91	3.92	3.93	3.92	3.73	3.91	5.18	5.49	5.41	5.59
148	3.94	3.93	3.94	3.95	3.75	3.96	5.53	5.62	5.46	5.66
149	3.95	3.95	3.96	3.98	3.79	3.99	5.62	5.70	5.54	5.76
150	3.94	3.94	3.97	4.02	3.87	4.01	5.69	5.75	5.63	5.87
151	3.93	3.97	3.99	4.06	3.96	4.03	5.73	5.82	5.73	5.96
152	3.95	4.01	3.98	4.12	4.01	4.04	5.77	5.87	5.88	6.05
153	3.98	4.06	4.02	4.10	4.05	4.04	5.82	5.86	5.92	6.07
154	4.01	4.07	4.06	4.08	4.10	4.06	5.87	5.85	5.95	5.98
155	4.01	4.08	4.15	4.11	4.16	4.09	5.94	5.90	6.06	5.99
156	4.04	4.13	4.25	4.16	4.23	4.16	6.01	6.01	6.16	6.07
157	4.09	4.20	4.32	4.24	4.26	4.27	6.12	6.15	6.21	6.20
158	4.12	4.29	4.30	4.36	4.32	4.38	6.22	6.29	6.26	6.31
159	4.12	4.37	4.33	4.46	4.37	4.46	6.33	6.39	6.33	6.45
160	4.04	4.32	4.37	4.51	4.41	4.49	6.42	6.46	6.44	6.50
161	3.97	4.32	4.45	4.52	4.43	4.51	6.45	6.50	6.48	6.52
162	3.96	4.32	4.55	4.53	4.43	4.50	6.46	6.51	6.51	6.53
163	4.04	4.36	4.57	4.55	4.45	4.49	6.49	6.45	6.50	6.55
164	4.14	4.46	4.58	4.57	4.49	4.48	6.42	6.38	6.50	6.58
165	4.19	4.45	4.59	4.65	4.55	4.50	6.34	6.36	6.53	6.64

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CANDELA TABULATION - (Cont.)

166	4.25	4.48	4.62	4.71	4.65	4.55	6.26	6.36	6.54	6.67
167	4.31	4.52	4.65	4.77	4.70	4.60	6.24	6.37	6.60	6.68
168	4.33	4.51	4.72	4.79	4.75	4.64	6.26	6.40	6.60	6.68
169	4.32	4.52	4.73	4.82	4.79	4.70	6.30	6.43	6.65	6.70
170	4.33	4.45	4.69	4.86	4.78	4.78	6.27	6.42	6.60	6.65
171	4.30	4.35	4.63	4.79	4.74	4.73	6.20	6.32	6.50	6.50
172	4.29	4.34	4.67	4.71	4.68	4.71	6.19	6.23	6.38	6.36
173	4.40	4.45	4.70	4.65	4.63	4.69	6.13	6.12	6.25	6.19
174	4.44	4.56	4.70	4.69	4.63	4.76	5.90	5.99	6.07	6.00
175	4.55	4.59	4.79	4.80	4.78	4.87	5.81	5.86	5.94	5.86
176	4.60	4.71	4.81	4.91	4.87	4.99	5.69	5.73	5.76	5.72
177	4.74	4.72	4.92	4.85	4.94	5.01	5.52	5.59	5.66	5.53
178	4.79	4.80	4.93	4.88	4.95	5.01	5.35	5.46	5.48	5.38
179	4.82	4.77	4.87	4.89	4.90	5.02	5.30	5.37	5.40	5.32
180	4.81	4.81	4.81	4.81	4.81	4.81	4.81	4.81	4.81	4.81

Vert. 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	5981.62	5981.62	5981.62	5981.62	5981.62	5981.62	5981.62	5981.62	5981.62	5981.62
1	5987.49	5990.92	5984.59	5987.92	5984.85	5984.04	5980.21	5975.54	5975.39	5979.66
2	5994.26	5993.81	5994.14	5994.09	5987.33	5985.87	5976.34	5976.82	5974.16	5971.99
3	6003.95	6003.44	5998.97	5999.70	5992.01	5990.11	5982.75	5976.87	5970.96	5973.77
4	6012.96	6011.25	6008.05	6001.63	5997.46	5995.11	5984.92	5978.29	5976.48	5974.51
5	6022.60	6020.62	6016.38	6010.55	6003.77	5998.40	5989.54	5982.47	5976.98	5978.42
6	6030.22	6027.35	6019.85	6017.24	6006.08	6004.04	5992.15	5987.22	5979.41	5979.56
7	6032.70	6030.34	6024.91	6021.68	6012.74	6008.03	5996.09	5988.32	5981.94	5982.37
8	6032.27	6031.46	6028.38	6026.93	6015.26	6008.49	5999.50	5989.05	5983.39	5984.45
9	6029.37	6029.05	6026.23	6024.59	6016.87	6009.20	5996.69	5989.75	5984.82	5982.19
10	6020.85	6021.25	6022.41	6019.92	6013.03	6007.78	5996.32	5989.78	5978.55	5977.34
11	6001.77	6005.80	6012.21	6008.71	6005.98	5999.75	5988.76	5982.71	5973.79	5968.72
12	5981.94	5989.83	5993.14	5998.85	5991.02	5988.25	5979.81	5966.56	5960.14	5958.31
13	5962.48	5964.54	5978.10	5979.97	5975.91	5974.66	5965.50	5955.83	5943.27	5943.31
14	5935.10	5944.38	5952.52	5958.97	5956.77	5956.45	5942.92	5935.82	5924.34	5918.26
15	5908.94	5916.38	5925.24	5930.26	5934.29	5934.10	5926.90	5916.22	5903.76	5894.26
16	5878.96	5887.30	5898.22	5906.15	5910.75	5911.71	5899.60	5893.34	5877.24	5864.56
17	5850.10	5858.43	5869.50	5875.85	5880.77	5882.33	5874.09	5863.90	5844.53	5841.23
18	5819.12	5828.05	5836.93	5846.68	5851.99	5854.15	5844.43	5835.66	5815.80	5806.67
19	5789.45	5796.95	5807.36	5817.55	5818.74	5825.48	5816.69	5805.95	5783.04	5774.38
20	5758.76	5769.33	5776.85	5786.73	5794.22	5794.89	5785.33	5772.63	5752.82	5742.06
21	5731.88	5736.41	5749.18	5753.67	5758.58	5764.94	5753.59	5742.01	5718.88	5708.34
22	5698.05	5708.30	5714.81	5723.07	5729.94	5731.54	5722.93	5708.09	5684.12	5673.46
23	5665.75	5674.14	5684.83	5691.69	5696.07	5700.20	5691.14	5675.16	5647.40	5636.78
24	5632.43	5639.90	5655.13	5659.48	5664.71	5664.88	5654.82	5643.48	5613.97	5602.22
25	5599.56	5609.39	5619.48	5623.65	5628.27	5633.09	5624.84	5606.32	5578.69	5564.70
26	5564.42	5571.54	5583.75	5592.24	5593.79	5597.29	5585.51	5570.84	5540.72	5529.69
27	5522.32	5531.77	5542.30	5551.29	5555.56	5558.73	5550.01	5529.41	5501.08	5486.95
28	5478.27	5490.16	5502.45	5509.93	5515.84	5517.99	5510.32	5485.85	5458.57	5448.34
29	5431.17	5443.69	5456.60	5465.55	5471.39	5471.68	5466.67	5443.62	5417.91	5404.69
30	5379.05	5391.45	5409.52	5419.25	5425.19	5428.02	5416.37	5397.76	5369.92	5353.30
31	5327.87	5339.41	5358.39	5368.42	5372.49	5375.21	5369.64	5351.90	5319.80	5309.08
32	5269.30	5284.54	5304.77	5314.75	5321.27	5320.00	5315.33	5299.90	5265.97	5253.34
33	5209.54	5226.40	5250.57	5254.81	5265.41	5267.73	5257.72	5244.63	5208.57	5199.28
34	5148.02	5168.15	5187.29	5197.66	5208.09	5208.72	5203.44	5187.84	5154.45	5140.25
35	5085.93	5102.49	5126.70	5136.31	5143.45	5146.92	5139.66	5126.11	5091.76	5076.72
36	5019.06	5036.47	5061.00	5070.81	5081.48	5080.35	5080.07	5064.69	5029.21	5013.05

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37	4950.64	4969.01	4994.23	5004.75	5015.36	5015.26	5013.20	4997.49	4962.64	4949.61
38	4884.41	4900.88	4925.84	4936.41	4945.39	4947.20	4947.40	4931.66	4894.08	4881.98
39	4808.70	4830.75	4853.44	4866.99	4876.87	4880.67	4874.73	4860.77	4824.11	4807.22
40	4737.07	4755.42	4784.82	4793.54	4806.11	4806.39	4805.42	4789.31	4750.52	4734.12
41	4660.26	4683.30	4710.91	4719.63	4731.37	4734.50	4731.63	4716.83	4677.83	4661.59
42	4585.45	4606.25	4633.86	4644.05	4656.17	4659.37	4654.21	4638.14	4602.58	4583.68
43	4504.34	4525.73	4555.61	4565.58	4575.50	4580.75	4577.34	4561.22	4523.19	4509.88
44	4424.39	4446.60	4474.36	4486.59	4498.87	4500.46	4493.60	4482.28	4442.30	4427.59
45	4341.72	4363.41	4392.79	4403.26	4414.64	4418.78	4412.03	4400.68	4358.47	4345.76
46	4254.72	4276.18	4308.62	4316.97	4332.09	4335.45	4330.19	4315.89	4274.86	4261.69
47	4168.29	4190.27	4219.51	4232.04	4245.07	4246.41	4243.29	4228.94	4186.72	4173.45
48	4075.27	4101.82	4131.80	4141.69	4153.42	4157.24	4155.89	4138.54	4100.42	4086.14
49	3984.51	4008.44	4043.93	4050.81	4062.33	4068.55	4064.28	4048.33	4007.59	3994.69
50	3888.76	3914.95	3949.01	3957.92	3968.41	3974.84	3970.19	3957.17	3914.89	3902.29
51	3795.96	3818.69	3856.19	3863.48	3873.34	3877.90	3874.83	3860.76	3820.63	3808.26
52	3696.51	3721.64	3759.00	3766.51	3777.51	3784.41	3777.41	3764.23	3725.50	3711.29
53	3599.62	3621.92	3658.85	3667.97	3677.44	3684.91	3684.40	3667.11	3629.62	3617.40
54	3499.80	3524.63	3560.27	3569.24	3580.56	3586.01	3583.85	3568.27	3533.89	3518.17
55	3399.53	3421.91	3461.12	3468.26	3480.36	3486.55	3485.25	3467.62	3432.62	3421.91
56	3297.65	3322.72	3361.50	3368.26	3380.80	3388.30	3384.52	3371.51	3334.22	3321.24
57	3196.70	3222.63	3260.72	3268.16	3277.17	3286.39	3283.01	3267.84	3233.79	3222.35
58	3095.37	3119.22	3157.60	3166.39	3177.44	3184.80	3182.14	3168.49	3135.47	3121.09
59	2994.38	3017.22	3055.80	3065.74	3075.08	3083.15	3082.06	3066.66	3034.44	3022.41
60	2890.91	2915.59	2954.15	2964.38	2975.62	2982.31	2981.03	2965.63	2932.49	2921.55
61	2790.58	2813.57	2850.60	2861.13	2875.11	2881.34	2880.09	2864.61	2831.75	2821.05
62	2690.09	2712.00	2748.82	2761.46	2773.86	2781.63	2779.38	2765.21	2733.19	2722.05
63	2589.66	2612.37	2648.88	2661.03	2675.70	2682.17	2682.44	2666.13	2634.18	2624.78
64	2490.89	2512.04	2549.22	2559.38	2576.21	2581.76	2582.98	2567.78	2535.79	2525.20
65	2392.17	2415.24	2450.90	2461.64	2478.63	2485.99	2486.78	2470.30	2439.22	2429.46
66	2296.85	2316.87	2354.71	2364.77	2381.15	2389.24	2387.84	2375.24	2343.81	2334.00
67	2200.35	2222.00	2258.19	2268.62	2287.10	2292.60	2294.16	2278.94	2248.37	2239.82
68	2111.54	2126.43	2162.95	2174.17	2193.80	2198.22	2199.45	2183.12	2153.67	2148.24
69	2022.74	2033.74	2074.57	2080.02	2104.71	2105.14	2110.16	2090.30	2063.25	2060.99
70	1933.87	1940.25	1986.19	1988.93	2015.63	2012.59	2020.87	2000.38	1973.33	1973.76
71	1840.99	1849.60	1897.80	1895.78	1926.52	1920.61	1931.59	1908.06	1882.76	1886.48
72	1751.19	1759.66	1808.04	1807.06	1834.70	1830.83	1842.99	1820.11	1793.51	1796.72
73	1662.54	1671.33	1717.09	1715.71	1746.17	1741.70	1753.02	1729.26	1703.79	1708.17
74	1573.43	1582.50	1628.33	1629.73	1657.52	1654.43	1664.56	1641.98	1617.48	1621.32
75	1487.73	1497.13	1541.17	1542.16	1571.29	1566.26	1577.18	1555.18	1532.25	1533.95
76	1400.83	1410.20	1456.09	1458.18	1484.24	1481.03	1491.86	1470.06	1446.96	1449.14
77	1316.03	1325.13	1369.55	1372.86	1399.70	1396.49	1405.52	1386.43	1363.58	1364.78
78	1229.77	1240.18	1283.84	1287.03	1313.16	1311.80	1320.39	1302.96	1280.61	1282.21
79	1142.24	1154.54	1196.77	1202.17	1228.58	1225.75	1236.30	1220.04	1197.55	1199.92
80	1055.76	1070.02	1108.64	1115.88	1141.39	1138.90	1148.62	1135.86	1115.46	1116.25
81	971.71	985.23	1024.07	1030.15	1054.14	1051.90	1062.87	1051.96	1033.56	1034.17
82	889.47	904.49	939.67	949.38	969.52	973.68	979.17	966.41	953.71	953.42
83	810.42	823.86	858.47	868.74	888.53	891.82	898.28	889.51	873.90	873.20
84	732.11	743.22	778.70	788.11	810.37	809.88	819.89	812.77	794.09	793.20
85	657.33	668.62	700.20	708.53	732.86	732.06	741.93	733.24	710.12	711.14
86	585.19	594.20	625.65	631.91	654.79	652.18	661.04	647.46	625.51	626.48
87	512.18	520.77	550.40	556.92	578.37	574.38	580.84	568.48	547.21	548.10
88	436.05	445.27	476.14	482.38	503.49	499.10	504.61	491.94	471.22	471.48
89	359.75	368.54	400.52	406.06	428.33	423.51	429.31	414.82	392.13	393.66
90	303.66	308.84	324.21	329.42	350.90	343.96	348.97	335.44	323.46	321.89
91	277.90	282.19	294.70	298.30	306.46	305.54	307.43	303.91	295.92	295.04
92	253.83	258.13	269.83	272.92	280.63	279.70	282.05	278.35	270.75	270.51

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93	231.72	235.58	248.10	249.31	256.65	256.08	258.55	254.67	247.90	248.78
94	209.68	215.19	226.36	227.85	235.63	234.10	237.64	232.97	226.18	227.05
95	190.87	195.78	204.69	207.55	214.60	213.70	216.73	212.49	206.05	205.36
96	173.02	178.04	186.12	189.06	193.68	194.79	195.44	192.55	187.17	186.89
97	156.47	161.27	169.00	171.48	175.69	177.03	135.22	152.64	167.74	168.03
98	141.02	145.97	153.13	155.39	159.12	160.04	85.47	78.49	100.88	143.04
99	126.71	131.51	138.36	140.44	143.54	137.43	53.21	3.74	97.05	118.04
100	113.43	118.15	124.53	126.44	129.39	112.08	26.73	0.44	94.89	93.04
101	101.35	105.73	111.83	113.71	115.79	91.73	45.00	41.31	92.74	68.04
102	89.67	94.90	99.78	101.65	101.54	71.49	52.69	82.31	90.59	43.05
103	78.44	84.10	88.82	90.91	87.30	51.24	56.27	76.54	88.43	72.24
104	66.51	73.30	78.66	80.20	72.79	38.84	61.48	67.64	78.56	63.76
105	55.02	63.97	69.04	69.50	59.40	27.51	61.62	59.40	69.21	56.11
106	44.13	55.23	60.06	59.22	46.83	19.03	60.59	51.82	60.79	48.49
107	34.39	46.72	51.89	49.61	35.82	16.82	56.68	44.83	53.07	41.75
108	26.01	38.56	44.18	40.34	26.72	18.17	50.33	38.54	46.01	35.63
109	17.63	30.88	36.72	31.88	17.63	19.00	43.00	32.68	39.41	30.07
110	9.28	23.94	29.63	23.65	8.55	19.26	36.56	27.50	33.37	25.68
111	2.91	16.85	22.68	16.47	4.62	19.06	30.46	22.83	27.90	21.30
112	3.15	10.00	15.72	9.31	5.28	18.24	25.61	18.66	22.81	16.91
113	3.28	6.42	8.78	6.08	5.67	17.35	20.76	14.96	18.16	13.43
114	3.36	2.84	2.55	2.98	5.85	15.18	15.95	11.69	14.13	10.43
115	3.34	2.78	2.56	2.96	5.76	12.47	12.44	9.48	10.49	7.87
116	3.25	2.79	2.58	2.98	5.43	10.01	9.61	7.29	7.72	5.84
117	3.13	2.80	2.61	3.00	4.83	7.56	7.34	5.10	4.98	4.35
118	3.12	2.83	2.65	3.02	4.03	5.11	5.54	4.02	3.19	3.43
119	3.15	2.86	2.69	3.03	3.31	3.88	4.24	3.38	2.81	2.84
120	3.19	2.89	2.74	3.04	3.24	3.30	3.48	3.10	2.88	2.71
121	3.23	2.94	2.79	3.06	3.28	3.28	3.33	3.14	2.94	2.75
122	3.30	2.99	2.85	3.08	3.33	3.33	3.38	3.20	2.98	2.82
123	3.37	3.06	2.92	3.12	3.38	3.38	3.44	3.25	3.05	2.89
124	3.44	3.15	3.00	3.19	3.43	3.42	3.49	3.31	3.09	2.96
125	3.53	3.27	3.08	3.28	3.49	3.48	3.56	3.36	3.11	3.00
126	3.62	3.38	3.18	3.37	3.56	3.56	3.62	3.37	3.09	3.02
127	3.70	3.48	3.30	3.45	3.63	3.63	3.70	3.38	2.84	2.93
128	3.80	3.58	3.42	3.55	3.73	3.71	3.77	3.56	2.71	2.84
129	3.90	3.68	3.53	3.65	3.82	3.78	3.85	3.68	3.21	2.91
130	4.01	3.79	3.63	3.75	3.93	3.88	3.93	3.81	3.35	2.96
131	4.12	3.91	3.74	3.87	4.03	3.99	4.03	3.97	3.42	3.03
132	4.23	4.02	3.86	3.98	4.10	4.10	4.13	4.13	3.48	3.12
133	4.33	4.14	3.99	4.08	4.17	4.19	4.24	4.22	3.54	3.23
134	4.41	4.25	4.13	4.17	4.22	4.27	4.34	4.32	3.57	3.36
135	4.51	4.34	4.25	4.24	4.26	4.34	4.43	4.40	3.62	3.48
136	4.60	4.42	4.35	4.31	4.32	4.42	4.49	4.46	3.67	3.54
137	4.68	4.50	4.42	4.38	4.38	4.50	4.50	4.52	3.73	3.61
138	4.76	4.60	4.50	4.45	4.46	4.61	4.53	4.57	3.78	3.65
139	4.85	4.71	4.57	4.53	4.55	4.71	4.59	4.59	3.82	3.66
140	4.93	4.80	4.66	4.61	4.64	4.79	4.69	4.62	3.80	3.64
141	5.02	4.88	4.76	4.69	4.74	4.84	4.80	4.65	3.67	3.61
142	5.11	4.97	4.85	4.79	4.85	4.90	4.87	4.48	3.63	3.42
143	5.20	5.08	4.94	4.87	4.98	4.98	4.97	4.42	3.34	3.28
144	5.28	5.18	5.02	4.95	5.11	5.06	5.03	4.61	3.35	3.36
145	5.36	5.26	5.11	5.05	5.20	5.15	5.06	4.75	3.55	3.48
146	5.44	5.35	5.19	5.13	5.26	5.24	5.11	5.13	3.64	3.81
147	5.51	5.43	5.26	5.24	5.32	5.31	5.18	5.34	4.01	3.98
148	5.59	5.51	5.35	5.33	5.38	5.39	5.28	5.46	4.11	4.06

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CANDELA TABULATION - (Cont.)

149	5.68	5.58	5.42	5.43	5.43	5.48	5.41	5.57	4.18	4.13
150	5.76	5.64	5.48	5.53	5.48	5.61	5.59	5.68	4.24	4.21
151	5.85	5.73	5.50	5.61	5.52	5.74	5.71	5.80	4.30	4.30
152	5.89	5.82	5.59	5.65	5.52	5.82	5.81	5.86	4.37	4.34
153	5.84	5.89	5.72	5.73	5.61	5.81	5.89	5.88	4.38	4.34
154	5.91	5.99	5.77	5.72	5.75	5.83	5.97	5.90	4.34	4.35
155	5.99	6.07	5.79	5.81	5.88	5.90	6.05	5.94	4.33	4.37
156	6.15	6.12	5.80	5.89	5.95	5.96	6.08	6.00	4.33	4.39
157	6.26	6.17	5.87	5.98	5.97	5.98	6.16	6.12	4.39	4.47
158	6.30	6.22	5.90	6.07	5.92	6.03	6.26	6.25	4.53	4.58
159	6.34	6.25	5.95	6.16	5.93	6.04	6.32	6.31	4.61	4.64
160	6.39	6.21	6.00	6.10	5.96	6.03	6.36	6.35	4.64	4.65
161	6.39	6.17	5.96	6.06	6.00	6.00	6.28	6.34	4.63	4.63
162	6.44	6.15	5.98	6.04	6.07	5.92	6.20	6.30	4.60	4.59
163	6.43	6.16	6.00	6.07	6.08	5.92	6.15	6.20	4.52	4.48
164	6.46	6.24	6.06	6.02	6.07	5.95	6.10	6.11	4.45	4.45
165	6.49	6.24	6.03	5.95	6.02	5.99	5.97	6.04	4.42	4.45
166	6.51	6.24	5.99	5.93	5.97	6.04	6.02	5.97	4.39	4.45
167	6.53	6.24	6.00	5.91	5.99	6.09	6.07	5.99	4.42	4.57
168	6.53	6.21	5.98	5.86	5.93	6.10	6.08	6.05	4.55	4.70
169	6.48	6.16	6.02	5.95	5.87	6.07	6.15	6.07	4.63	4.78
170	6.41	6.03	5.96	5.96	5.74	6.00	6.18	6.08	4.71	4.84
171	6.31	5.85	5.80	5.91	5.61	5.86	6.07	6.05	4.74	4.84
172	6.22	5.77	5.67	5.83	5.64	5.78	6.01	6.01	4.76	4.84
173	6.12	5.72	5.54	5.78	5.61	5.75	5.96	5.98	4.80	4.89
174	5.90	5.61	5.42	5.63	5.47	5.73	5.84	5.94	4.89	5.02
175	5.77	5.50	5.33	5.49	5.41	5.60	5.71	5.79	5.12	5.18
176	5.59	5.45	5.25	5.38	5.20	5.50	5.58	5.66	5.19	5.36
177	5.50	5.29	5.21	5.20	5.12	5.36	5.48	5.53	5.29	5.47
178	5.32	5.16	5.08	5.02	5.04	5.24	5.24	5.39	5.33	5.53
179	5.18	5.03	5.02	4.86	4.97	5.06	5.10	5.26	5.34	5.45
180	4.81	4.81	4.81	4.81	4.81	4.81	4.81	4.81	4.81	4.81

Vert. Angles **Horizontal Angles**

	<u>300</u>	<u>315</u>	<u>330</u>	<u>345</u>	<u>360</u>
0	5981.62	5981.62	5981.62	5981.62	5981.62
1	5976.69	5980.88	5975.61	5975.27	5982.60
2	5976.19	5978.41	5973.74	5973.87	5976.95
3	5973.76	5975.91	5974.08	5974.60	5978.30
4	5980.37	5974.93	5977.64	5975.41	5981.14
5	5980.83	5979.55	5981.14	5978.57	5984.67
6	5982.62	5981.99	5979.14	5980.66	5980.59
7	5984.38	5980.67	5980.15	5979.87	5984.03
8	5986.18	5984.05	5979.45	5975.18	5977.70
9	5983.37	5978.23	5973.48	5970.33	5967.67
10	5975.94	5971.61	5963.60	5958.45	5956.77
11	5965.15	5959.00	5949.68	5945.30	5941.76
12	5950.05	5946.38	5934.20	5926.85	5922.65
13	5929.62	5924.47	5910.24	5900.98	5898.84
14	5907.32	5898.81	5886.04	5880.65	5870.98
15	5882.29	5872.49	5857.05	5848.13	5838.39
16	5851.12	5842.11	5826.50	5818.50	5813.52
17	5820.47	5810.11	5792.72	5788.31	5780.08
18	5787.74	5777.03	5761.31	5755.15	5742.42
19	5751.50	5743.20	5728.01	5720.77	5713.24

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CANDELA TABULATION - (Cont.)

20	5717.92	5708.24	5690.95	5688.18	5674.34
21	5686.00	5674.11	5658.90	5654.28	5643.65
22	5648.94	5643.59	5622.65	5620.51	5610.68
23	5613.39	5604.96	5585.68	5584.69	5573.83
24	5580.29	5568.28	5550.96	5546.74	5536.87
25	5544.00	5534.02	5512.67	5507.71	5496.58
26	5505.87	5492.37	5474.54	5466.63	5456.86
27	5461.17	5451.25	5428.93	5424.78	5415.28
28	5422.40	5409.74	5384.72	5382.24	5366.75
29	5373.39	5364.82	5335.95	5329.79	5316.78
30	5326.44	5312.99	5283.75	5278.29	5264.18
31	5274.57	5258.33	5233.16	5224.64	5210.99
32	5221.50	5205.11	5171.36	5164.89	5154.66
33	5161.62	5147.72	5115.49	5105.70	5093.59
34	5100.02	5083.92	5051.67	5044.58	5027.98
35	5038.11	5020.08	4986.95	4981.47	4962.30
36	4971.68	4953.44	4922.42	4913.52	4893.64
37	4905.24	4887.02	4851.85	4844.55	4825.81
38	4834.92	4815.79	4783.45	4772.99	4754.31
39	4764.22	4745.99	4707.95	4699.58	4680.72
40	4691.73	4669.02	4634.56	4625.91	4604.42
41	4613.46	4595.21	4557.43	4546.32	4528.60
42	4537.20	4514.97	4478.79	4468.02	4447.17
43	4457.03	4434.42	4398.15	4389.68	4367.13
44	4375.73	4352.84	4314.43	4305.34	4284.23
45	4289.61	4270.32	4230.72	4220.37	4199.37
46	4206.36	4182.98	4143.56	4131.87	4111.96
47	4115.54	4093.91	4051.89	4044.70	4023.22
48	4028.01	4005.49	3963.37	3953.16	3933.16
49	3935.84	3913.33	3871.55	3860.18	3838.64
50	3843.07	3821.29	3778.55	3765.78	3745.11
51	3749.30	3727.14	3680.80	3670.55	3649.09
52	3654.72	3631.33	3587.09	3574.07	3554.47
53	3558.72	3535.94	3489.78	3476.37	3454.15
54	3457.62	3437.23	3391.38	3378.66	3353.69
55	3361.88	3338.57	3292.71	3280.34	3255.50
56	3260.27	3239.24	3194.21	3181.54	3158.13
57	3162.90	3139.94	3095.02	3082.03	3057.63
58	3063.46	3042.22	2994.98	2980.69	2957.52
59	2962.76	2942.77	2898.56	2880.97	2857.41
60	2863.41	2844.42	2797.83	2783.60	2756.69
61	2764.60	2741.72	2699.29	2684.99	2659.59
62	2665.74	2645.06	2600.62	2585.58	2561.53
63	2568.81	2547.81	2503.58	2488.92	2461.06
64	2472.35	2452.57	2406.95	2392.04	2365.01
65	2376.07	2356.25	2313.33	2297.27	2270.15
66	2281.64	2261.11	2218.09	2204.79	2173.19
67	2186.03	2169.17	2125.41	2116.95	2081.76
68	2094.57	2082.14	2031.95	2029.12	1989.25
69	2003.51	1995.12	1943.58	1941.22	1900.59
70	1913.07	1908.09	1853.14	1849.00	1808.47
71	1821.99	1817.87	1764.24	1760.59	1721.24
72	1734.46	1729.01	1676.73	1672.75	1633.09
73	1647.77	1641.64	1590.42	1586.00	1547.89
74	1560.38	1555.84	1506.75	1500.21	1464.34
75	1475.08	1470.02	1421.89	1414.73	1380.01

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CANDELA TABULATION - (Cont.)

76	1392.51	1386.02	1338.37	1330.91	1298.42
77	1308.46	1303.11	1254.66	1249.15	1216.13
78	1227.05	1220.34	1172.95	1166.25	1135.71
79	1143.69	1137.21	1089.78	1085.77	1053.76
80	1062.23	1052.76	1008.96	1004.46	975.72
81	981.36	971.50	932.10	925.87	897.37
82	903.67	892.11	855.30	848.24	819.01
83	826.02	815.42	778.50	771.04	740.65
84	748.36	741.03	701.90	693.77	661.55
85	662.32	659.27	620.80	610.72	582.60
86	582.01	580.86	544.37	535.88	505.26
87	505.69	503.14	466.77	458.00	428.96
88	428.86	426.95	389.74	380.52	349.92
89	350.14	348.24	318.68	313.82	302.91
90	306.30	304.38	291.75	287.49	277.57
91	280.59	278.77	267.00	263.15	254.00
92	256.76	255.26	243.72	241.70	232.01
93	234.89	234.40	222.27	220.26	211.84
94	214.63	213.53	202.10	198.87	192.91
95	196.08	192.70	183.59	180.52	175.41
96	178.06	174.99	166.16	163.68	158.76
97	151.69	158.60	150.12	148.11	143.74
98	99.36	143.31	135.19	133.51	129.37
99	81.66	128.93	121.29	119.96	116.21
100	64.27	111.78	108.59	107.46	104.01
101	46.88	91.83	96.53	95.76	93.27
102	40.77	73.91	85.72	84.91	82.57
103	35.48	57.61	74.91	75.23	71.88
104	41.03	43.71	64.28	65.81	62.75
105	42.31	35.72	53.63	57.27	54.46
106	42.08	27.73	43.64	49.35	46.59
107	40.56	19.74	34.59	41.74	39.43
108	38.15	11.77	26.46	34.67	32.85
109	34.38	9.28	19.36	28.36	27.08
110	29.45	9.94	13.09	23.12	21.74
111	23.98	10.24	9.55	17.89	16.99
112	19.10	10.17	6.04	12.66	12.89
113	14.79	9.71	2.54	8.61	10.17
114	11.25	8.82	2.65	5.57	7.47
115	9.08	7.57	2.72	2.56	4.77
116	6.96	5.90	2.69	2.12	2.07
117	4.84	4.20	2.61	2.16	2.03
118	3.62	3.08	2.62	2.21	2.09
119	2.92	2.66	2.65	2.25	2.15
120	2.87	2.69	2.68	2.30	2.21
121	2.92	2.73	2.71	2.36	2.26
122	2.97	2.79	2.75	2.41	2.32
123	3.02	2.84	2.79	2.46	2.37
124	3.05	2.90	2.84	2.52	2.43
125	3.09	2.94	2.89	2.57	2.49
126	3.13	2.98	2.93	2.63	2.54
127	3.17	3.02	2.98	2.69	2.60
128	3.21	3.06	3.04	2.75	2.66
129	3.25	3.11	3.09	2.80	2.71
130	3.28	3.15	3.15	2.84	2.77
131	3.32	3.19	3.21	2.91	2.84

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CANDELA TABULATION - (Cont.)

132	3.37	3.23	3.26	2.98	2.93
133	3.44	3.28	3.32	3.06	3.02
134	3.50	3.33	3.35	3.12	3.11
135	3.55	3.36	3.38	3.18	3.18
136	3.58	3.38	3.41	3.24	3.23
137	3.59	3.41	3.44	3.29	3.28
138	3.58	3.48	3.49	3.36	3.34
139	3.62	3.56	3.54	3.44	3.43
140	3.66	3.63	3.59	3.52	3.50
141	3.69	3.67	3.64	3.60	3.57
142	3.71	3.69	3.70	3.68	3.64
143	3.72	3.71	3.77	3.77	3.70
144	3.76	3.74	3.83	3.83	3.75
145	3.74	3.74	3.88	3.88	3.79
146	3.72	3.74	3.89	3.92	3.84
147	3.75	3.76	3.89	3.94	3.91
148	3.83	3.79	3.88	3.95	3.94
149	3.92	3.84	3.91	3.96	3.95
150	4.03	3.89	3.89	3.93	3.94
151	4.16	3.95	3.84	3.90	3.93
152	4.21	4.00	3.78	3.89	3.95
153	4.27	4.01	3.79	3.92	3.98
154	4.30	3.98	3.84	3.96	4.01
155	4.33	3.99	3.92	4.01	4.01
156	4.34	4.00	4.00	4.10	4.04
157	4.39	4.01	3.99	4.17	4.09
158	4.45	4.08	3.95	4.23	4.12
159	4.49	4.13	3.95	4.26	4.12
160	4.48	4.14	3.98	4.20	4.04
161	4.42	4.09	4.06	4.17	3.97
162	4.39	4.06	4.16	4.16	3.96
163	4.41	4.09	4.20	4.18	4.04
164	4.40	4.16	4.21	4.24	4.14
165	4.38	4.28	4.25	4.23	4.19
166	4.50	4.39	4.29	4.25	4.25
167	4.59	4.57	4.36	4.26	4.31
168	4.69	4.68	4.43	4.28	4.33
169	4.84	4.77	4.42	4.35	4.32
170	4.88	4.83	4.40	4.42	4.33
171	4.84	4.81	4.44	4.44	4.30
172	4.83	4.82	4.58	4.51	4.29
173	4.91	4.88	4.65	4.61	4.40
174	5.02	4.95	4.73	4.67	4.44
175	5.21	5.10	4.86	4.70	4.55
176	5.35	5.21	4.84	4.80	4.60
177	5.47	5.26	4.95	4.92	4.74
178	5.48	5.35	5.06	5.05	4.79
179	5.40	5.35	5.18	5.04	4.82
180	4.81	4.81	4.81	4.81	4.81

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2234.58	11.70	11.70
0-30	4799.49	25.10	25.10
0-40	7956.4	41.50	41.50
0-60	14272.7	74.50	74.50
0-80	18162.77	94.80	94.80
0-90	18870.29	98.50	98.50
10-90	18297.87	95.60	95.60
20-40	5721.82	29.90	29.90
20-50	9035.16	47.20	47.20
40-70	8660.52	45.20	45.20
60-80	3890.07	20.30	20.30
70-80	1545.84	8.10	8.10
80-90	707.53	3.70	3.70
90-110	258.35	1.30	1.30
90-120	266.18	1.40	1.40
90-130	269.04	1.40	1.40
90-150	274.87	1.40	1.40
90-180	279.23	1.50	1.50
110-180	20.88	0.10	0.10
0-180	19149.52	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	572.43
10-20	1662.16
20-30	2564.91
30-40	3156.91
40-50	3313.34
50-60	3002.96
60-70	2344.22
70-80	1545.84
80-90	707.53
90-100	204.86
100-110	53.49
110-120	7.83
120-130	2.87
130-140	3.02
140-150	2.81
150-160	2.34
160-170	1.51
170-180	0.51

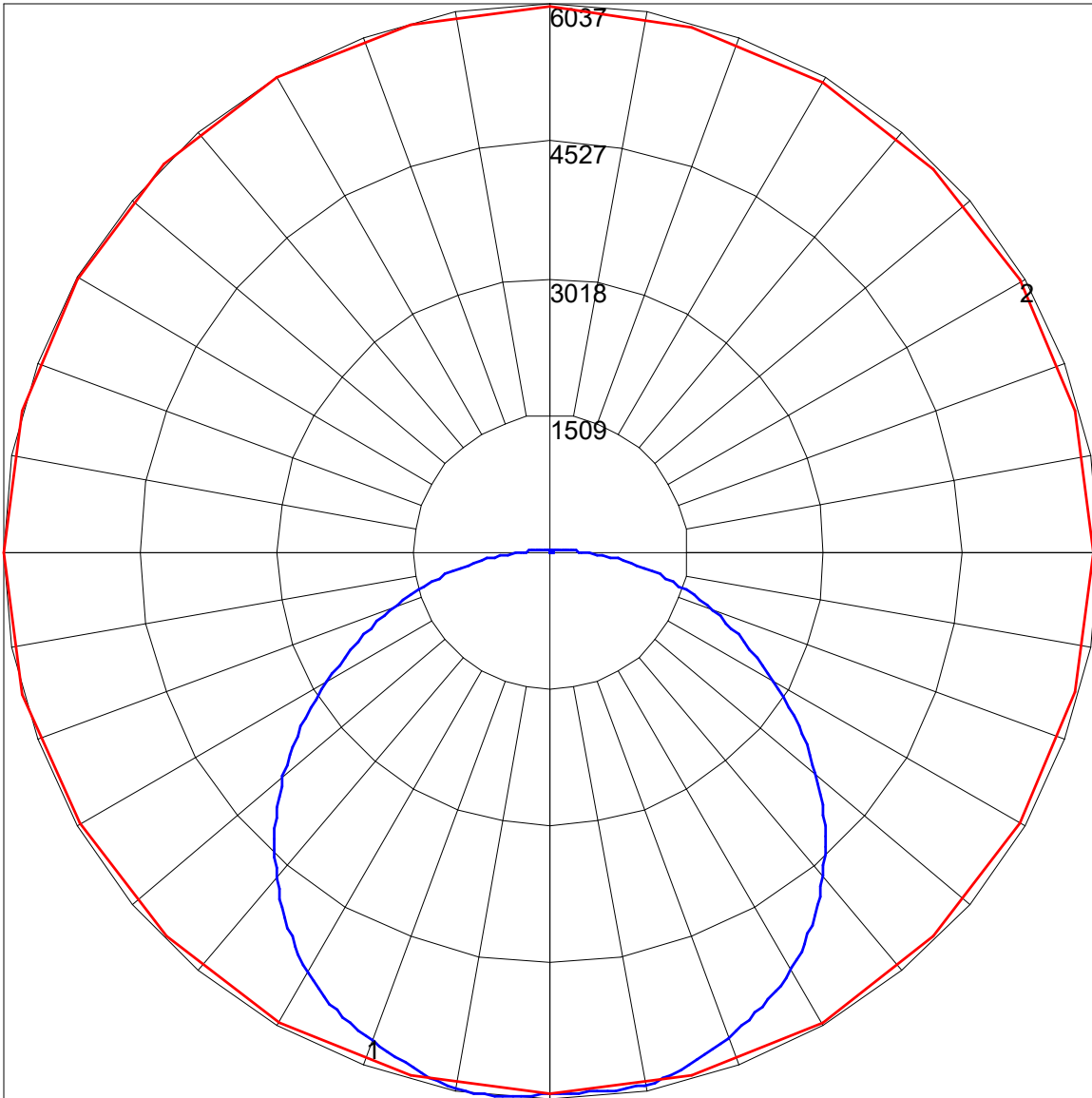
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101	99
1	107	102	98	93	104	100	96	92	95	92	88	91	88	86	87	85	83	80
2	97	89	81	75	94	87	80	74	83	77	72	79	74	70	76	72	69	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	45	57	50	44	55	49	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	39	33	44	38	33	31
8	59	45	37	31	57	44	36	30	43	35	30	42	35	30	40	34	30	28
9	55	41	33	27	54	41	33	27	40	32	27	38	32	27	37	31	27	25
10	52	38	30	25	50	38	30	25	37	29	25	35	29	24	34	28	24	22

POLAR GRAPH



Maximum Candela = 6036.64 Located At Horizontal Angle = 135, Vertical Angle = 8
1 - Vertical Plane Through Horizontal Angles (135 - 315) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (8) (Through Max. Cd.)