



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : SLLED4HTMOWT40120-277V.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] SLLED4HTMOWT40120-277V  
 [TESTLAB] BEGHELLI  
 [TESTDATE] 2017-07-07  
 [ISSUEDATE] 2017-07-07 15:48:13  
 [NEARFIELD]  
 [LAMPPOSITION] 0,0  
 [MANUFAC] BEGHELLI

Note: Candela values converted from Type-B to Type-C

### CHARACTERISTICS

Lumens Per Lamp	1000 (1 lamp)
Total Lamp Lumens	1000
Luminaire Lumens	3597
Total Luminaire Efficiency	360 %
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	38.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Point
Luminous Length (0-180)	0.00 m
Luminous Width (90-270)	0.00 m
Luminous Height	0.00 m

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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**CANDELA TABULATION**

	<u>0.0</u>	<u>2.5</u>	<u>5.0</u>	<u>7.5</u>	<u>10.0</u>	<u>12.5</u>	<u>15.0</u>	<u>17.5</u>	<u>20.0</u>	<u>22.5</u>
<b>0.0</b>	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40
<b>2.5</b>	1143.66	1143.60	1143.57	1143.55	1143.55	1143.57	1143.60	1143.66	1143.74	1143.80
<b>5.0</b>	1133.92	1133.80	1133.72	1133.68	1133.67	1133.66	1133.63	1133.63	1133.67	1133.65
<b>7.5</b>	1124.19	1124.00	1123.86	1123.77	1123.65	1123.55	1123.44	1123.41	1123.35	1123.34
<b>10.0</b>	1114.45	1114.19	1114.00	1113.78	1113.60	1113.40	1113.14	1112.95	1112.57	1112.26
<b>12.5</b>	1104.71	1104.37	1104.09	1103.79	1103.49	1103.05	1102.57	1102.00	1101.38	1100.71
<b>15.0</b>	1094.97	1094.54	1094.16	1093.78	1093.22	1092.55	1091.76	1090.79	1089.80	1088.61
<b>17.5</b>	1076.37	1075.94	1075.63	1075.34	1074.94	1074.39	1073.79	1073.17	1072.16	1072.09
<b>20.0</b>	1057.77	1057.29	1056.90	1056.36	1055.67	1054.88	1054.00	1052.65	1052.16	1051.20
<b>22.5</b>	1039.17	1038.63	1038.08	1037.38	1036.39	1035.27	1033.98	1032.73	1031.37	1029.90
<b>25.0</b>	1020.57	1020.01	1019.35	1018.31	1017.02	1015.58	1013.96	1012.23	1010.34	1008.32
<b>27.5</b>	1001.97	1001.34	1000.47	999.16	997.60	995.84	993.77	991.51	989.14	986.44
<b>30.0</b>	983.37	982.67	981.59	980.01	978.17	976.03	973.43	970.72	967.61	964.57
<b>32.5</b>	957.50	956.78	955.78	954.37	952.76	950.78	948.69	946.25	943.71	940.81
<b>35.0</b>	931.63	930.82	929.74	928.10	926.26	923.98	921.47	918.23	915.54	912.01
<b>37.5</b>	905.76	904.86	903.69	901.86	899.77	897.18	894.33	890.95	887.25	883.25
<b>40.0</b>	879.89	878.89	877.60	875.66	873.24	870.44	867.05	863.35	859.08	854.54
<b>42.5</b>	854.02	852.93	851.52	849.48	846.84	843.66	839.89	835.66	831.00	825.81
<b>45.0</b>	828.15	826.97	825.47	823.23	820.50	816.99	812.77	808.14	803.00	797.47
<b>47.5</b>	798.63	797.48	795.97	793.76	791.07	787.70	783.65	779.16	774.11	768.81
<b>50.0</b>	769.10	767.87	766.33	763.98	761.08	757.42	753.12	748.36	742.99	737.25
<b>52.5</b>	739.58	738.43	736.66	734.12	730.92	727.26	722.76	717.71	712.09	705.90
<b>55.0</b>	710.06	708.93	707.11	704.55	701.29	697.19	692.52	687.21	681.34	674.81
<b>57.5</b>	680.53	679.42	677.52	674.89	671.48	667.25	662.43	656.87	650.78	643.94
<b>60.0</b>	651.01	649.92	647.94	645.28	641.74	637.44	632.33	626.75	620.45	613.34
<b>62.5</b>	622.43	621.34	619.32	616.59	612.95	608.50	603.32	597.36	590.76	583.33
<b>65.0</b>	593.85	592.78	590.77	588.02	584.37	579.86	574.64	568.66	561.93	554.38
<b>67.5</b>	565.28	564.23	562.23	559.35	555.82	551.34	546.12	540.10	533.25	525.72
<b>70.0</b>	536.70	535.68	533.71	530.96	527.36	522.95	517.73	511.67	504.84	497.36
<b>72.5</b>	508.12	507.14	505.20	502.47	498.98	494.43	489.42	483.41	476.68	469.21
<b>75.0</b>	479.54	478.60	476.72	474.02	470.67	466.44	461.24	455.32	448.74	441.37
<b>77.5</b>	239.77	240.31	242.42	246.12	251.48	258.29	266.51	276.16	287.24	299.35
<b>80.0</b>	0.00	0.89	3.56	7.99	14.14	21.96	31.42	42.44	54.96	68.90
<b>82.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>85.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>87.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert. Angles**      **Horizontal Angles**

	<u>25.0</u>	<u>27.5</u>	<u>30.0</u>	<u>32.5</u>	<u>35.0</u>	<u>37.5</u>	<u>40.0</u>	<u>42.5</u>	<u>45.0</u>	<u>47.5</u>
<b>0.0</b>	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40
<b>2.5</b>	1143.91	1143.98	1144.08	1144.19	1144.32	1144.47	1144.63	1144.82	1145.02	1145.24
<b>5.0</b>	1133.83	1133.91	1134.03	1134.19	1134.39	1134.60	1134.73	1134.91	1135.12	1135.38
<b>7.5</b>	1123.27	1123.16	1123.11	1123.11	1123.06	1123.09	1123.18	1123.30	1123.36	1123.81
<b>10.0</b>	1111.93	1111.59	1111.28	1110.93	1110.62	1110.40	1110.29	1110.27	1110.31	1110.20
<b>12.5</b>	1100.00	1099.24	1098.62	1098.14	1097.63	1096.94	1096.38	1095.81	1095.37	1094.97
<b>15.0</b>	1087.60	1086.75	1085.58	1084.39	1083.25	1082.20	1081.04	1080.03	1078.98	1078.13
<b>17.5</b>	1071.66	1071.00	1070.62	1069.87	1067.76	1066.24	1064.46	1062.67	1061.13	1059.82
<b>20.0</b>	1050.19	1049.28	1048.26	1047.25	1046.28	1045.42	1045.01	1044.72	1042.20	1039.89
<b>22.5</b>	1028.40	1026.82	1025.27	1023.52	1022.21	1020.85	1019.49	1018.22	1017.32	1016.60
<b>25.0</b>	1006.18	1003.98	1001.63	999.59	997.33	994.46	993.12	991.28	989.69	988.32
<b>27.5</b>	983.72	980.67	977.80	974.74	971.75	968.87	966.10	963.54	960.89	957.79
<b>30.0</b>	960.80	957.18	953.38	949.60	945.78	942.12	938.36	934.73	931.34	928.21

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**CANDELA TABULATION - (Cont.)**

32.5	937.81	933.31	928.78	924.07	919.15	914.72	909.97	905.46	901.15	897.10
35.0	908.44	904.68	900.83	896.71	892.68	886.87	881.22	875.79	869.59	865.20
37.5	878.43	874.71	870.19	865.54	860.62	855.88	851.34	845.53	839.11	832.94
40.0	849.81	844.70	839.53	833.88	828.33	822.87	817.10	811.67	806.32	800.45
42.5	820.55	814.91	808.78	802.51	796.25	789.66	783.81	776.77	770.57	764.48
45.0	791.47	785.23	778.25	771.40	763.50	756.86	749.47	742.18	734.96	728.00
47.5	762.60	754.78	748.09	740.45	732.47	724.31	716.10	707.89	699.76	691.07
50.0	731.04	724.05	717.09	709.59	701.17	692.16	683.13	674.03	665.09	656.14
52.5	699.15	691.87	684.29	676.29	667.91	659.38	650.63	640.78	630.88	621.15
55.0	667.63	660.03	651.92	643.44	634.55	624.60	616.02	606.61	597.14	586.66
57.5	636.48	627.94	619.58	610.55	601.03	591.99	582.13	571.99	561.79	551.71
60.0	605.66	597.37	588.55	579.21	569.46	559.25	548.85	538.23	527.43	516.60
62.5	575.22	566.70	557.55	547.92	537.85	527.34	516.47	505.29	494.06	482.50
65.0	546.09	537.25	527.32	517.60	506.99	496.06	484.83	473.31	461.54	448.91
67.5	517.27	508.39	498.75	488.54	477.64	466.34	454.58	442.52	430.09	417.13
70.0	488.97	479.98	470.33	460.01	449.07	437.66	425.68	413.36	401.06	388.28
72.5	460.93	451.99	442.33	432.06	421.09	409.58	397.56	385.15	374.35	361.31
75.0	433.21	424.36	414.86	404.62	393.68	382.24	370.27	358.14	349.48	335.39
77.5	312.95	327.50	343.04	359.31	366.93	355.62	343.76	332.47	324.65	310.55
80.0	84.15	100.64	118.25	136.71	156.25	176.42	197.17	220.26	245.50	267.33
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.91	33.25	58.65
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles	Horizontal Angles									
	<u>50.0</u>	<u>52.5</u>	<u>55.0</u>	<u>57.5</u>	<u>60.0</u>	<u>62.5</u>	<u>65.0</u>	<u>67.5</u>	<u>70.0</u>	<u>72.5</u>
0.0	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40
2.5	1145.37	1145.70	1145.97	1146.24	1146.52	1146.81	1147.12	1147.45	1147.79	1148.14
5.0	1135.68	1135.94	1136.37	1136.74	1137.16	1137.62	1138.11	1138.65	1139.23	1139.84
7.5	1123.70	1123.79	1124.33	1124.75	1125.25	1125.81	1126.44	1126.88	1127.87	1128.61
10.0	1110.22	1109.99	1110.48	1110.70	1111.18	1111.48	1112.02	1112.61	1113.33	1114.16
12.5	1094.61	1094.41	1094.27	1094.25	1094.39	1094.66	1094.97	1095.47	1096.14	1096.42
15.0	1077.22	1076.51	1076.00	1075.68	1075.25	1075.44	1075.53	1075.85	1076.37	1077.06
17.5	1058.44	1057.14	1056.00	1055.05	1054.35	1053.82	1053.60	1053.63	1053.89	1054.48
20.0	1037.76	1035.79	1034.07	1032.59	1031.34	1030.32	1029.64	1029.17	1029.11	1029.46
22.5	1015.91	1013.20	1010.64	1008.26	1006.30	1004.74	1003.41	1002.46	1001.97	1001.92
25.0	986.94	986.09	985.52	982.32	979.58	977.32	975.36	973.76	972.91	972.45
27.5	956.66	955.02	953.85	952.21	951.37	948.16	945.41	943.23	942.05	940.81
30.0	925.44	922.99	920.88	918.61	918.18	917.42	913.17	910.97	908.84	907.28
32.5	893.25	889.85	887.40	883.74	882.57	881.36	881.29	877.38	874.44	872.29
35.0	860.49	856.02	852.19	848.00	846.14	844.15	842.89	842.42	838.65	835.84
37.5	827.13	822.03	815.72	812.60	808.90	806.00	803.90	802.76	801.95	798.33
40.0	793.50	787.05	781.11	775.81	771.11	767.36	764.45	762.48	761.61	759.76
42.5	758.89	752.19	745.12	738.71	733.09	728.27	724.37	721.56	719.80	719.29
45.0	721.42	715.05	709.06	701.57	694.79	689.02	683.97	680.24	677.75	676.59
47.5	684.52	676.93	670.10	663.94	656.53	649.63	642.67	638.11	635.43	633.39
50.0	646.76	639.20	631.50	624.08	617.64	610.71	603.08	597.76	593.15	589.02
52.5	611.46	602.32	593.33	585.10	577.57	570.75	563.28	556.72	551.17	546.97
55.0	576.30	565.95	556.21	546.85	538.15	530.21	522.49	516.20	509.28	504.15
57.5	541.59	530.77	519.87	509.49	498.60	490.76	482.46	475.35	468.25	461.86
60.0	505.82	495.11	484.62	472.17	462.45	452.18	442.85	434.54	427.53	420.31
62.5	471.07	459.69	448.43	437.63	426.35	415.04	404.52	394.99	386.61	379.76
65.0	437.16	425.14	412.86	401.80	390.36	379.33	367.71	356.94	349.26	340.00
67.5	405.20	392.55	379.96	367.39	355.23	343.43	332.29	325.30	313.57	301.83

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**CANDELA TABULATION - (Cont.)**

<b>70.0</b>	374.38	360.98	347.78	334.65	321.68	309.05	300.35	291.17	278.74	265.67
<b>72.5</b>	346.49	332.63	317.90	303.49	289.90	277.31	266.38	254.51	243.39	231.56
<b>75.0</b>	320.96	306.23	291.25	276.13	260.99	245.48	233.05	220.36	208.20	197.19
<b>77.5</b>	296.06	281.15	266.06	250.69	235.19	219.53	203.99	188.79	176.83	165.92
<b>80.0</b>	272.10	257.47	242.33	226.84	211.23	195.44	179.56	163.80	151.56	136.61
<b>82.5</b>	84.15	109.37	134.03	157.84	180.48	173.20	157.07	141.68	127.58	112.65
<b>85.0</b>	0.00	0.00	0.00	0.00	0.00	24.21	49.60	72.75	93.39	91.20
<b>87.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b><u>75.0</u></b>	<b><u>77.5</u></b>	<b><u>80.0</u></b>	<b><u>82.5</u></b>	<b><u>85.0</u></b>	<b><u>87.5</u></b>	<b><u>90.0</u></b>	<b><u>92.5</u></b>	<b><u>95.0</u></b>	<b><u>97.5</u></b>
<b>0.0</b>	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40
<b>2.5</b>	1148.50	1148.88	1149.26	1149.66	1150.06	1150.48	1150.90	1150.87	1150.84	1150.83
<b>5.0</b>	1140.49	1141.18	1141.69	1142.53	1143.38	1144.23	1145.08	1145.02	1144.95	1144.89
<b>7.5</b>	1129.44	1130.33	1131.30	1132.35	1133.46	1134.64	1135.88	1135.82	1135.82	1135.89
<b>10.0</b>	1115.12	1116.20	1117.39	1118.23	1119.91	1121.60	1123.29	1123.19	1123.08	1122.98
<b>12.5</b>	1098.00	1099.17	1100.51	1102.02	1103.71	1105.57	1107.60	1107.57	1107.71	1108.01
<b>15.0</b>	1078.01	1079.20	1080.64	1082.32	1083.79	1086.30	1088.82	1088.70	1088.57	1089.49
<b>17.5</b>	1055.37	1056.54	1057.98	1059.74	1061.84	1064.26	1067.01	1067.06	1067.43	1068.12
<b>20.0</b>	1030.10	1031.14	1032.60	1034.47	1035.94	1039.23	1042.54	1042.44	1042.34	1044.07
<b>22.5</b>	1002.36	1002.63	1004.68	1006.56	1008.97	1011.89	1015.33	1015.49	1016.16	1017.34
<b>25.0</b>	972.54	973.10	974.28	976.09	978.54	981.30	985.34	985.31	986.54	988.08
<b>27.5</b>	940.41	940.74	941.80	943.62	946.19	949.51	953.58	953.91	954.99	956.81
<b>30.0</b>	906.53	906.55	907.40	909.10	911.67	914.68	919.44	919.46	921.24	923.44
<b>32.5</b>	870.98	870.60	870.46	872.76	875.33	878.91	883.52	884.07	885.63	888.17
<b>35.0</b>	833.97	833.16	833.39	834.73	837.21	840.25	845.63	845.77	848.24	851.27
<b>37.5</b>	795.83	794.44	794.30	795.41	797.81	801.52	806.56	807.37	809.51	812.95
<b>40.0</b>	756.54	754.61	753.98	754.75	756.98	759.94	765.91	766.15	769.39	773.33
<b>42.5</b>	716.31	713.81	712.78	713.26	715.25	718.89	724.22	725.39	728.25	732.77
<b>45.0</b>	675.72	672.29	670.58	670.66	672.49	675.21	681.60	681.96	686.03	691.00
<b>47.5</b>	632.82	630.31	627.91	626.82	628.87	632.38	637.92	639.41	642.95	647.98
<b>50.0</b>	588.70	587.98	584.42	583.81	584.90	587.06	593.77	594.34	599.47	605.66
<b>52.5</b>	544.51	544.12	541.63	539.90	540.51	543.54	549.09	550.99	555.42	562.31
<b>55.0</b>	500.73	499.24	498.21	495.80	495.88	497.20	504.03	504.78	511.10	518.69
<b>57.5</b>	457.34	454.79	454.46	451.63	451.05	453.32	458.62	461.06	466.58	475.04
<b>60.0</b>	414.46	410.78	409.46	407.66	406.25	406.34	413.17	414.21	422.02	431.36
<b>62.5</b>	371.83	367.30	365.00	364.10	361.79	362.98	367.78	370.88	377.68	388.03
<b>65.0</b>	331.51	325.03	321.74	323.28	321.66	320.68	322.85	326.49	334.10	343.90
<b>67.5</b>	291.85	284.79	281.83	281.57	278.95	276.56	278.28	284.70	295.34	305.33
<b>70.0</b>	254.03	244.34	239.15	237.32	236.87	233.21	234.55	241.31	253.21	260.94
<b>72.5</b>	218.28	206.93	197.25	194.91	195.27	191.32	192.25	199.38	211.50	218.15
<b>75.0</b>	184.03	172.20	161.46	157.17	154.59	152.10	154.17	160.03	169.52	177.93
<b>77.5</b>	152.84	140.70	130.25	122.63	116.89	115.16	117.81	122.89	132.20	145.56
<b>80.0</b>	123.47	110.53	99.02	89.59	83.18	80.66	82.38	88.24	98.23	112.01
<b>82.5</b>	98.14	84.49	72.22	61.83	54.23	50.72	52.21	57.95	68.82	83.91
<b>85.0</b>	76.93	63.33	50.81	39.89	31.51	28.05	28.50	34.48	45.19	60.48
<b>87.5</b>	0.00	14.15	29.26	24.87	17.18	13.11	13.01	18.20	27.91	42.35
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	4.28	0.00	0.00	0.00

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b><u>100.0</u></b>	<b><u>102.5</u></b>	<b><u>105.0</u></b>	<b><u>107.5</u></b>	<b><u>110.0</u></b>	<b><u>112.5</u></b>	<b><u>115.0</u></b>	<b><u>117.5</u></b>	<b><u>120.0</u></b>	<b><u>122.5</u></b>
<b>0.0</b>	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40
<b>2.5</b>	1150.81	1150.81	1150.81	1150.82	1150.84	1150.87	1150.90	1150.94	1150.98	1151.04

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

<b>5.0</b>	1144.83	1145.09	1145.16	1145.27	1145.39	1145.54	1145.72	1145.92	1146.14	1146.39
<b>7.5</b>	1136.02	1136.20	1136.45	1136.76	1137.12	1137.23	1137.89	1138.34	1138.83	1139.37
<b>10.0</b>	1123.71	1124.07	1124.53	1125.09	1125.75	1126.50	1127.35	1128.24	1129.18	1130.21
<b>12.5</b>	1108.48	1109.11	1109.90	1110.26	1111.83	1112.99	1114.28	1115.69	1117.14	1118.69
<b>15.0</b>	1090.18	1091.10	1092.25	1093.62	1095.22	1096.92	1098.74	1100.75	1102.59	1105.17
<b>17.5</b>	1069.13	1070.45	1072.01	1073.82	1075.92	1078.30	1080.82	1083.49	1086.38	1089.50
<b>20.0</b>	1045.37	1047.07	1049.14	1051.59	1054.26	1057.27	1060.64	1064.20	1068.03	1072.06
<b>22.5</b>	1019.02	1020.51	1023.76	1026.81	1030.32	1034.16	1038.39	1042.94	1047.69	1052.73
<b>25.0</b>	990.22	992.96	996.28	1000.02	1004.25	1008.81	1014.11	1019.70	1025.56	1031.81
<b>27.5</b>	959.35	962.62	966.57	971.19	976.27	981.91	988.11	994.77	1001.80	1005.99
<b>30.0</b>	926.50	930.40	935.07	940.40	946.46	953.12	959.79	968.34	972.66	976.55
<b>32.5</b>	890.92	896.19	901.67	908.02	915.09	922.94	931.31	935.62	940.61	945.59
<b>35.0</b>	855.41	860.63	866.91	874.25	882.28	891.06	895.96	901.47	907.62	913.62
<b>37.5</b>	817.67	823.63	830.81	839.05	848.36	853.95	859.73	866.32	873.53	881.72
<b>40.0</b>	778.70	785.44	793.48	802.77	810.07	815.86	822.69	830.40	838.95	848.43
<b>42.5</b>	738.77	746.26	755.25	764.56	770.14	777.01	785.03	794.01	803.91	814.52
<b>45.0</b>	697.77	706.29	716.48	723.13	729.74	737.63	746.91	757.32	768.63	780.61
<b>47.5</b>	656.16	665.65	674.74	681.00	688.88	697.13	707.72	720.30	733.01	746.05
<b>50.0</b>	613.53	624.42	631.35	637.70	647.92	658.44	669.92	683.59	696.45	708.07
<b>52.5</b>	571.59	581.35	588.00	596.48	606.88	618.90	631.95	645.32	657.70	671.03
<b>55.0</b>	528.89	536.83	544.67	554.54	566.20	579.61	592.03	605.91	619.70	634.34
<b>57.5</b>	485.77	492.54	501.67	512.95	526.24	539.90	552.89	567.27	581.36	598.61
<b>60.0</b>	440.60	448.61	459.19	472.06	486.21	499.38	514.10	529.73	546.51	562.81
<b>62.5</b>	395.92	405.32	416.74	431.86	445.25	460.18	476.34	493.68	511.72	529.28
<b>65.0</b>	352.11	363.00	376.81	390.78	405.74	422.38	440.18	458.90	475.87	492.98
<b>67.5</b>	310.98	322.08	336.76	351.34	368.15	386.30	405.09	422.26	440.01	458.32
<b>70.0</b>	269.88	282.38	299.32	317.57	332.74	350.96	368.58	387.10	406.10	425.41
<b>72.5</b>	227.74	244.82	263.60	284.67	302.02	315.49	334.42	353.99	374.10	394.28
<b>75.0</b>	191.74	209.93	229.44	248.54	266.18	283.66	302.60	322.74	344.31	365.01
<b>77.5</b>	158.28	178.52	195.73	213.63	232.43	251.84	273.44	295.04	316.73	338.46
<b>80.0</b>	129.06	147.10	165.09	181.48	203.50	225.21	247.24	269.46	291.50	313.44
<b>82.5</b>	100.83	120.09	139.98	157.63	179.35	201.49	223.49	246.20	255.91	222.35
<b>85.0</b>	77.93	96.63	116.52	136.99	139.03	106.64	71.77	34.67	0.00	0.00
<b>87.5</b>	49.68	23.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert.  
Angles**

**Horizontal Angles**

	<b>125.0</b>	<b>127.5</b>	<b>130.0</b>	<b>132.5</b>	<b>135.0</b>	<b>137.5</b>	<b>140.0</b>	<b>142.5</b>	<b>145.0</b>	<b>147.5</b>
<b>0.0</b>	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40
<b>2.5</b>	1151.10	1151.14	1151.11	1151.27	1151.34	1151.40	1151.48	1151.55	1151.64	1151.72
<b>5.0</b>	1146.65	1146.85	1147.19	1147.47	1147.77	1148.09	1148.42	1148.77	1149.02	1149.26
<b>7.5</b>	1139.96	1140.39	1141.20	1141.86	1142.56	1143.28	1143.91	1144.51	1145.13	1145.78
<b>10.0</b>	1131.31	1132.09	1133.50	1134.63	1135.82	1136.93	1138.06	1139.24	1140.36	1141.48
<b>12.5</b>	1120.36	1122.09	1123.81	1125.62	1127.44	1129.27	1131.16	1132.85	1134.60	1136.26
<b>15.0</b>	1107.59	1110.07	1112.48	1115.02	1117.58	1120.27	1122.80	1125.37	1127.84	1130.34
<b>17.5</b>	1092.85	1096.23	1099.55	1103.00	1106.56	1110.02	1113.34	1116.77	1119.91	1123.45
<b>20.0</b>	1076.30	1080.59	1084.87	1089.42	1094.19	1098.48	1100.72	1103.19	1105.26	1107.56
<b>22.5</b>	1058.02	1063.45	1068.98	1072.19	1075.10	1077.86	1081.36	1084.47	1087.58	1090.85
<b>25.0</b>	1038.27	1041.61	1045.12	1048.94	1052.81	1056.86	1060.96	1064.19	1069.36	1073.12
<b>27.5</b>	1010.84	1015.13	1019.75	1023.68	1029.53	1034.66	1039.80	1045.01	1049.96	1055.13
<b>30.0</b>	982.12	987.47	993.19	999.15	1005.33	1011.64	1017.94	1024.25	1030.48	1036.48
<b>32.5</b>	952.43	958.97	965.75	972.93	980.32	987.83	995.45	1003.01	1009.98	1017.64
<b>35.0</b>	921.71	929.49	937.71	946.19	953.83	963.57	972.34	981.19	989.92	996.42
<b>37.5</b>	889.12	899.52	908.89	918.69	928.74	938.71	947.94	955.69	963.52	971.20
<b>40.0</b>	858.24	868.77	879.72	890.94	900.73	909.74	918.64	927.80	936.60	945.41

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

42.5	825.92	837.86	849.10	858.96	869.11	879.28	889.61	899.65	909.82	919.55
45.0	793.33	803.99	814.98	826.04	837.45	848.98	860.44	871.88	882.17	893.90
47.5	757.04	768.69	780.81	792.51	806.02	818.79	831.56	844.11	856.47	868.37
50.0	720.75	733.70	746.26	760.97	775.03	788.99	802.86	816.70	830.21	842.69
52.5	684.75	699.30	713.73	729.14	744.33	759.58	774.43	787.43	799.87	811.91
55.0	649.68	665.38	681.56	697.73	713.87	727.79	741.65	754.34	768.69	781.58
57.5	615.29	632.43	649.40	664.32	679.31	694.48	709.31	723.83	737.12	750.96
60.0	581.98	597.86	613.86	629.92	645.89	661.90	677.53	692.87	707.77	722.09
62.5	545.69	562.56	579.38	596.49	613.49	630.11	646.69	662.81	678.33	693.21
65.0	509.70	528.00	545.97	563.34	581.98	599.53	616.70	633.40	649.20	663.88
67.5	476.97	495.67	514.63	532.30	551.63	569.37	586.24	602.60	618.42	633.54
70.0	444.91	464.48	483.72	502.32	520.51	538.37	555.68	572.43	588.54	603.85
72.5	414.01	433.57	452.01	471.78	490.37	508.54	526.16	543.13	559.40	574.82
75.0	383.63	403.70	423.31	442.68	461.44	479.78	497.55	514.72	530.90	546.42
77.5	355.66	375.49	395.39	414.83	433.87	452.15	469.92	487.11	503.21	492.63
80.0	331.24	349.10	368.65	361.52	331.24	301.01	271.38	242.58	214.51	187.47
82.5	186.31	149.08	114.22	79.36	44.87	10.77	0.00	0.00	0.00	0.00
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert. Angles**      **Horizontal Angles**

	<u>150.0</u>	<u>152.5</u>	<u>155.0</u>	<u>157.5</u>	<u>160.0</u>	<u>162.5</u>	<u>165.0</u>	<u>167.5</u>	<u>170.0</u>	<u>172.5</u>
0.0	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40
2.5	1151.81	1151.91	1152.01	1152.06	1152.13	1152.18	1152.23	1152.29	1152.34	1152.40
5.0	1149.50	1149.75	1150.02	1150.16	1150.46	1150.67	1150.89	1151.11	1151.24	1151.37
7.5	1146.36	1146.95	1147.56	1148.09	1148.52	1148.97	1149.33	1149.72	1150.04	1150.35
10.0	1142.57	1143.53	1144.46	1145.35	1146.18	1147.00	1147.65	1148.29	1148.80	1149.19
12.5	1137.93	1139.50	1141.00	1142.36	1143.56	1144.68	1145.71	1146.63	1147.48	1148.09
15.0	1132.58	1134.80	1136.92	1138.91	1140.75	1142.25	1143.65	1144.87	1145.98	1146.93
17.5	1125.48	1127.06	1128.52	1129.96	1131.10	1132.62	1133.64	1134.56	1135.40	1136.15
20.0	1109.98	1112.20	1114.31	1116.28	1118.16	1119.66	1121.52	1122.79	1123.87	1124.82
22.5	1093.73	1096.80	1099.65	1102.31	1104.76	1107.01	1109.08	1110.88	1112.35	1113.53
25.0	1077.21	1080.91	1084.57	1088.02	1091.15	1093.99	1096.54	1098.82	1100.74	1102.21
27.5	1059.93	1064.71	1069.18	1073.42	1077.39	1080.77	1083.95	1086.64	1089.01	1090.86
30.0	1042.42	1048.02	1053.54	1058.60	1063.31	1067.54	1071.21	1074.43	1077.23	1079.53
32.5	1024.49	1031.26	1037.40	1042.29	1046.49	1050.45	1053.82	1056.75	1059.24	1061.45
35.0	1003.14	1009.03	1015.04	1020.18	1025.33	1029.59	1033.92	1037.33	1040.19	1042.59
37.5	978.49	985.50	991.39	998.28	1004.18	1009.31	1014.03	1017.88	1021.19	1023.76
40.0	953.79	961.79	969.29	976.37	982.81	988.76	994.00	998.54	1002.10	1004.97
42.5	929.12	938.08	946.49	954.30	961.61	968.24	974.08	979.06	983.05	986.21
45.0	904.40	914.43	923.76	932.45	940.43	947.75	954.10	959.63	964.03	967.49
47.5	879.87	890.18	901.16	910.00	917.53	924.34	930.25	935.38	939.54	942.78
50.0	853.45	863.62	873.18	882.00	890.14	897.41	903.81	909.33	913.91	917.41
52.5	823.39	834.32	844.71	854.11	862.79	870.62	877.56	883.39	888.07	891.93
55.0	793.73	805.38	816.47	826.46	835.66	844.00	851.36	857.47	862.69	866.65
57.5	763.94	776.13	788.45	799.10	808.75	817.53	825.24	831.65	837.10	841.29
60.0	735.79	748.64	760.73	772.01	782.03	791.23	799.07	805.95	811.60	815.99
62.5	707.52	720.92	733.24	744.47	754.23	763.22	771.11	777.68	783.13	787.43
65.0	677.37	690.93	703.17	714.64	724.73	733.89	741.90	748.65	754.17	758.60
67.5	647.74	660.81	673.46	685.16	695.45	704.75	712.85	719.72	725.24	729.67
70.0	618.28	631.86	644.36	656.04	666.45	675.77	683.95	690.88	696.41	701.04
72.5	589.33	603.06	615.56	627.22	637.71	647.03	655.16	661.85	667.65	672.26
75.0	561.13	574.62	587.13	598.75	609.19	618.49	626.54	633.49	638.96	643.52
77.5	469.94	448.18	427.86	408.95	392.09	376.72	363.15	351.57	341.86	334.38

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

<b>80.0</b>	162.01	137.73	115.06	94.13	75.03	57.89	42.81	29.90	19.22	0.00
<b>82.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>85.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>87.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert. Horizontal Angles**  
**Angles**

	<u><b>175.0</b></u>	<u><b>177.5</b></u>	<u><b>180.0</b></u>	<u><b>182.5</b></u>	<u><b>185.0</b></u>	<u><b>187.5</b></u>	<u><b>190.0</b></u>	<u><b>192.5</b></u>	<u><b>195.0</b></u>	<u><b>197.5</b></u>
<b>0.0</b>	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40
<b>2.5</b>	1152.46	1152.52	1152.59	1152.59	1152.59	1152.60	1152.60	1152.61	1152.62	1152.64
<b>5.0</b>	1151.50	1151.64	1151.77	1151.77	1151.76	1151.76	1151.75	1151.79	1151.70	1151.64
<b>7.5</b>	1150.55	1150.75	1150.96	1150.94	1150.93	1150.92	1150.80	1150.68	1150.56	1150.26
<b>10.0</b>	1149.58	1149.86	1150.14	1150.10	1150.06	1149.89	1149.71	1149.42	1148.98	1148.55
<b>12.5</b>	1148.59	1148.97	1149.33	1149.26	1149.22	1148.86	1148.49	1147.97	1147.31	1146.44
<b>15.0</b>	1147.55	1148.07	1148.52	1148.41	1148.15	1147.75	1147.18	1146.41	1145.28	1144.08
<b>17.5</b>	1136.69	1137.12	1137.52	1137.49	1137.32	1137.08	1136.84	1136.08	1135.36	1134.63
<b>20.0</b>	1125.29	1126.06	1126.52	1126.45	1125.94	1125.89	1125.27	1124.36	1123.65	1122.18
<b>22.5</b>	1114.39	1115.14	1115.52	1115.58	1115.18	1114.72	1113.72	1112.61	1111.12	1109.34
<b>25.0</b>	1102.95	1104.08	1104.52	1104.54	1103.71	1103.41	1102.15	1100.68	1098.64	1096.41
<b>27.5</b>	1092.15	1093.16	1093.53	1093.57	1092.95	1092.00	1090.56	1088.50	1086.08	1083.42
<b>30.0</b>	1080.60	1082.03	1082.53	1082.45	1081.42	1080.62	1079.01	1076.25	1073.41	1070.05
<b>32.5</b>	1062.78	1063.75	1064.11	1064.13	1063.53	1062.44	1060.72	1058.38	1055.95	1052.84
<b>35.0</b>	1044.28	1045.12	1045.69	1045.46	1044.91	1043.46	1041.31	1038.72	1035.66	1032.11
<b>37.5</b>	1025.76	1026.88	1027.27	1027.17	1026.32	1024.51	1022.15	1018.99	1015.70	1011.08
<b>40.0</b>	1007.20	1008.28	1008.85	1008.50	1007.52	1005.54	1002.58	999.32	995.06	990.02
<b>42.5</b>	988.65	990.08	990.43	990.24	988.79	986.69	983.24	979.45	975.08	969.00
<b>45.0</b>	970.13	971.49	972.01	971.57	970.08	967.43	964.09	959.65	954.15	947.98
<b>47.5</b>	945.18	946.63	946.94	946.67	945.08	942.55	939.27	935.22	929.91	924.15
<b>50.0</b>	919.95	921.16	921.87	921.22	919.81	917.09	913.55	909.05	903.37	897.03
<b>52.5</b>	894.68	896.32	896.81	896.31	894.55	891.69	887.88	882.98	876.97	870.06
<b>55.0</b>	869.50	870.92	871.74	870.90	869.45	866.26	862.16	856.90	850.56	843.20
<b>57.5</b>	844.29	846.02	846.67	845.91	843.99	840.83	836.46	830.88	824.21	816.48
<b>60.0</b>	818.17	820.64	821.61	820.49	817.78	815.42	810.82	804.99	798.02	790.48
<b>62.5</b>	790.41	792.09	792.77	791.89	789.86	786.61	782.12	776.72	769.57	761.67
<b>65.0</b>	760.62	763.04	763.92	762.78	759.92	757.51	753.10	747.08	740.05	731.98
<b>67.5</b>	732.77	734.47	735.08	734.15	731.92	728.44	723.78	717.85	710.69	702.44
<b>70.0</b>	703.16	705.47	706.23	705.08	702.18	699.52	694.72	688.72	681.80	673.04
<b>72.5</b>	675.16	676.87	677.39	676.42	674.07	670.45	665.73	659.69	652.33	643.85
<b>75.0</b>	645.75	647.92	648.54	647.41	644.54	641.51	636.80	630.99	623.38	614.86
<b>77.5</b>	328.82	325.45	324.27	325.19	328.20	333.34	340.68	349.99	361.25	374.60
<b>80.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	19.15	29.76	42.59	57.53
<b>82.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>85.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>87.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert. Horizontal Angles**  
**Angles**

	<u><b>200.0</b></u>	<u><b>202.5</b></u>	<u><b>205.0</b></u>	<u><b>207.5</b></u>	<u><b>210.0</b></u>	<u><b>212.5</b></u>	<u><b>215.0</b></u>	<u><b>217.5</b></u>	<u><b>220.0</b></u>	<u><b>222.5</b></u>
<b>0.0</b>	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40
<b>2.5</b>	1152.65	1152.66	1152.68	1152.65	1152.64	1152.63	1152.62	1152.62	1152.62	1152.62
<b>5.0</b>	1151.58	1151.53	1151.39	1151.17	1150.96	1150.76	1150.56	1150.43	1150.18	1149.99
<b>7.5</b>	1149.92	1149.59	1149.22	1148.82	1148.43	1148.10	1147.53	1147.03	1146.55	1146.22
<b>10.0</b>	1147.92	1147.30	1146.60	1145.84	1145.09	1144.20	1143.32	1142.67	1141.40	1140.41
<b>12.5</b>	1145.51	1144.50	1143.40	1142.20	1140.88	1139.40	1137.94	1136.41	1134.97	1133.34

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**CANDELA TABULATION - (Cont.)**

15.0	1143.02	1141.32	1139.62	1137.71	1135.75	1133.80	1131.58	1129.73	1127.11	1125.23
17.5	1133.75	1132.56	1131.38	1130.26	1128.90	1127.14	1124.25	1121.14	1118.07	1114.97
20.0	1120.65	1119.08	1117.41	1116.01	1113.69	1111.66	1109.67	1107.89	1105.47	1103.41
22.5	1107.41	1105.28	1102.94	1100.47	1098.01	1095.14	1092.13	1089.23	1086.45	1083.68
25.0	1093.94	1091.12	1088.11	1084.83	1081.37	1077.63	1074.26	1070.33	1066.31	1062.58
27.5	1080.59	1076.74	1072.88	1068.70	1064.30	1059.91	1055.17	1050.23	1045.58	1040.89
30.0	1066.30	1062.23	1057.27	1052.21	1047.10	1041.40	1035.60	1029.94	1024.01	1018.17
32.5	1049.45	1045.58	1041.39	1035.66	1029.19	1022.48	1015.94	1009.62	1001.81	994.66
35.0	1027.87	1023.23	1018.65	1013.17	1007.38	1001.96	995.34	987.28	978.87	970.38
37.5	1006.36	1000.85	995.28	988.73	982.43	976.33	968.64	961.48	954.60	946.02
40.0	984.47	978.40	971.59	964.53	956.99	949.21	941.10	933.12	924.64	916.29
42.5	962.70	955.88	948.13	940.18	931.58	922.68	913.40	904.15	894.59	885.06
45.0	940.95	933.08	924.74	916.17	906.09	896.18	885.90	875.28	864.99	853.95
47.5	917.40	909.99	901.29	891.28	880.76	869.66	858.46	846.56	834.70	822.76
50.0	889.76	882.17	873.00	863.48	853.61	843.07	831.56	818.01	805.01	791.83
52.5	862.24	853.60	844.18	834.08	823.26	811.93	800.95	788.08	775.28	761.25
55.0	834.93	825.64	815.65	804.95	793.38	781.26	768.89	755.60	742.22	728.77
57.5	807.81	798.02	787.46	776.00	763.82	751.01	737.56	723.69	709.53	695.02
60.0	780.82	770.61	759.58	747.53	734.72	721.26	707.10	692.43	677.45	662.01
62.5	752.58	742.70	732.00	719.50	706.12	692.00	677.21	661.92	646.17	630.00
65.0	722.90	712.45	701.15	688.97	675.96	662.07	647.60	632.12	615.71	598.80
67.5	692.85	682.51	670.94	658.13	645.11	630.94	616.06	600.60	584.53	568.03
70.0	663.43	653.39	641.07	628.37	615.06	600.36	585.20	569.39	552.93	536.00
72.5	634.46	623.46	611.60	598.77	585.01	570.42	555.13	539.04	522.29	505.03
75.0	605.27	594.35	583.12	569.59	555.87	541.14	525.79	509.74	492.60	475.10
77.5	389.40	405.89	424.12	443.71	464.75	486.88	497.63	480.84	463.82	446.27
80.0	74.51	93.36	114.04	136.43	160.21	185.42	211.84	239.25	267.51	296.47
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.62
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert. Angles**      **Horizontal Angles**

	<u>225.0</u>	<u>227.5</u>	<u>230.0</u>	<u>232.5</u>	<u>235.0</u>	<u>237.5</u>	<u>240.0</u>	<u>242.5</u>	<u>245.0</u>	<u>247.5</u>
0.0	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40
2.5	1152.62	1152.63	1152.64	1152.65	1152.68	1152.56	1152.52	1152.48	1152.45	1152.42
5.0	1149.83	1149.67	1149.53	1149.40	1149.42	1149.02	1148.84	1148.67	1148.53	1148.41
7.5	1145.51	1144.99	1144.51	1144.05	1143.55	1143.05	1142.60	1142.19	1141.82	1141.50
10.0	1139.65	1138.44	1137.49	1136.60	1135.68	1134.78	1133.96	1133.22	1132.78	1131.83
12.5	1131.79	1130.23	1128.65	1127.16	1125.66	1124.22	1122.89	1122.05	1120.42	1119.32
15.0	1122.49	1120.25	1117.93	1115.74	1113.53	1111.39	1109.43	1107.51	1105.74	1104.16
17.5	1111.75	1108.48	1105.31	1102.27	1099.27	1096.37	1094.38	1090.96	1088.54	1086.34
20.0	1099.45	1095.23	1091.11	1086.99	1083.08	1079.40	1075.80	1072.32	1069.65	1066.20
22.5	1080.73	1078.10	1075.82	1070.30	1065.35	1060.64	1056.04	1051.69	1047.58	1043.87
25.0	1059.00	1055.50	1052.18	1048.99	1045.96	1040.04	1034.24	1029.00	1023.77	1019.19
27.5	1036.72	1031.65	1027.20	1022.91	1018.94	1015.42	1010.84	1004.41	998.30	992.63
30.0	1012.35	1006.51	1000.90	995.69	990.84	986.22	981.90	977.98	971.02	964.27
32.5	987.47	980.58	973.98	967.46	961.23	955.70	950.40	945.67	941.58	933.98
35.0	962.29	954.30	946.68	939.13	931.20	924.06	917.54	911.98	907.06	902.68
37.5	936.28	926.66	917.33	908.49	899.64	891.70	883.99	877.05	870.96	865.74
40.0	908.49	899.05	888.38	877.92	867.84	858.42	849.53	841.34	834.15	827.91
42.5	875.81	866.54	857.64	846.98	835.57	824.70	814.60	805.30	796.77	789.33
45.0	843.24	832.73	822.63	812.64	803.11	790.95	779.33	768.75	758.88	750.07
47.5	810.81	799.19	787.52	776.45	766.04	756.08	744.01	731.77	720.64	710.53
50.0	778.74	765.59	752.76	740.45	728.63	717.33	706.89	694.95	682.28	671.80



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**CANDELA TABULATION - (Cont.)**

52.5	746.86	732.45	718.22	704.85	691.46	678.90	667.08	656.26	644.24	631.36
55.0	715.03	700.05	684.51	669.47	654.94	640.99	627.83	615.49	604.38	592.07
57.5	680.35	665.53	650.93	634.95	619.14	603.81	589.13	575.47	562.85	551.58
60.0	646.41	630.69	615.02	599.63	584.14	567.40	551.44	536.34	522.26	509.57
62.5	613.50	596.84	580.30	563.65	547.32	531.28	514.89	498.24	482.82	468.91
65.0	581.60	564.22	546.57	529.15	511.56	494.54	477.81	461.66	444.46	428.65
67.5	550.69	532.61	514.84	495.74	477.40	459.31	441.53	424.53	407.44	390.28
70.0	518.61	500.75	483.38	463.88	444.84	425.72	406.77	388.29	370.69	353.84
72.5	487.30	468.90	450.52	431.77	413.04	393.87	374.07	354.59	339.00	319.29
75.0	457.97	438.61	419.67	400.90	381.04	361.70	342.35	326.45	309.82	287.08
77.5	428.11	409.87	390.30	370.87	351.20	331.19	311.31	296.44	277.02	257.42
80.0	325.80	355.37	362.30	342.83	322.87	302.62	282.94	264.70	244.75	224.97
82.5	44.13	78.06	112.11	146.08	179.53	212.18	243.89	235.47	215.28	195.18
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.11	68.07	100.90
87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles	Horizontal Angles									
	<u>250.0</u>	<u>252.5</u>	<u>255.0</u>	<u>257.5</u>	<u>260.0</u>	<u>262.5</u>	<u>265.0</u>	<u>267.5</u>	<u>270.0</u>	<u>272.5</u>
0.0	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40
2.5	1152.40	1152.39	1152.39	1152.39	1152.39	1152.41	1152.43	1152.46	1152.50	1152.07
5.0	1148.31	1148.24	1148.18	1148.14	1148.13	1148.13	1148.16	1148.21	1148.28	1147.44
7.5	1141.38	1140.94	1140.71	1140.55	1140.43	1140.37	1140.36	1140.41	1140.51	1139.26
10.0	1131.22	1130.71	1130.28	1129.95	1129.71	1129.56	1129.50	1129.54	1129.67	1128.03
12.5	1118.34	1117.51	1117.20	1116.18	1115.73	1115.43	1115.29	1115.30	1115.45	1113.42
15.0	1103.28	1101.41	1100.31	1099.41	1098.73	1098.26	1098.01	1097.97	1098.14	1095.74
17.5	1084.35	1082.63	1081.16	1080.56	1078.86	1078.12	1077.67	1077.54	1077.71	1074.96
20.0	1063.59	1061.66	1059.19	1057.46	1056.10	1055.12	1054.53	1054.31	1054.48	1051.38
22.5	1041.31	1037.38	1034.71	1032.50	1030.74	1029.45	1028.65	1028.33	1028.51	1025.06
25.0	1014.98	1011.29	1009.16	1005.32	1003.14	1001.55	1000.54	1000.13	1000.31	996.53
27.5	987.42	982.87	979.01	975.80	973.84	971.20	969.90	969.33	969.50	965.41
30.0	958.50	952.65	947.88	943.88	940.69	938.33	936.81	936.13	936.29	931.93
32.5	927.01	920.86	915.30	910.53	906.71	903.83	901.94	901.04	901.15	896.52
35.0	894.37	887.03	880.66	876.08	870.75	867.38	865.16	864.09	864.17	859.31
37.5	860.32	852.04	845.14	838.59	833.50	829.64	827.04	825.73	825.73	820.66
40.0	822.60	816.06	807.71	800.63	794.83	790.39	787.40	785.86	785.81	780.54
42.5	782.95	777.77	769.39	761.39	754.91	750.84	746.55	744.80	744.73	739.27
45.0	742.55	736.30	731.52	721.26	713.98	708.33	704.45	702.39	702.20	696.65
47.5	701.71	694.40	688.68	681.31	672.42	666.09	661.72	659.39	659.12	653.50
50.0	661.64	652.38	645.50	639.20	630.07	623.06	618.20	615.57	615.22	609.56
52.5	619.95	610.05	602.45	595.92	587.34	579.47	574.09	571.20	570.80	565.12
55.0	579.15	567.93	558.57	551.44	544.27	535.55	529.54	526.29	525.84	520.21
57.5	538.89	526.20	515.31	506.73	500.61	491.41	484.75	481.11	480.54	475.06
60.0	498.20	484.97	472.63	462.57	455.18	447.28	439.89	435.83	435.19	429.89
62.5	455.63	444.39	430.53	419.00	410.11	403.10	396.48	390.49	389.80	384.78
65.0	414.06	401.39	390.97	376.19	365.77	358.51	350.31	345.43	344.68	339.94
67.5	374.24	359.73	347.32	335.77	325.09	314.85	307.46	304.48	306.25	299.32
70.0	336.34	319.80	308.10	299.94	284.67	271.75	263.23	259.59	261.11	254.94
72.5	299.95	282.37	268.18	256.08	244.86	230.33	220.10	215.68	217.06	211.71
75.0	266.38	246.74	229.08	214.85	204.14	190.76	178.94	173.42	174.45	170.23
77.5	235.73	214.71	194.84	177.11	165.48	153.76	142.58	136.83	134.40	134.38
80.0	205.40	186.02	165.44	147.21	131.97	117.30	106.42	99.96	97.18	98.59
82.5	176.19	157.57	137.58	118.60	101.02	85.96	73.87	67.66	64.37	67.67
85.0	133.50	132.67	112.58	93.40	75.62	59.78	47.16	39.21	37.10	40.62
87.5	0.00	0.00	0.00	21.83	46.64	41.11	27.73	19.23	17.86	22.51

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CANDELA TABULATION - (Cont.)

90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.56	0.00
<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u>275.0</u>	<u>277.5</u>	<u>280.0</u>	<u>282.5</u>	<u>285.0</u>	<u>287.5</u>	<u>290.0</u>	<u>292.5</u>	<u>295.0</u>	<u>297.5</u>
0.0	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40
2.5	1151.66	1151.25	1150.86	1150.47	1150.09	1149.73	1149.38	1149.03	1148.71	1148.39
5.0	1146.62	1145.83	1145.07	1144.33	1143.62	1142.94	1142.29	1141.68	1141.10	1140.55
7.5	1138.08	1136.95	1135.89	1134.88	1133.94	1133.07	1132.43	1131.48	1130.74	1130.07
10.0	1126.49	1125.04	1123.69	1122.45	1121.31	1120.28	1119.35	1118.53	1118.08	1117.15
12.5	1111.55	1109.83	1108.27	1106.87	1106.04	1104.54	1103.59	1102.81	1102.18	1102.10
15.0	1093.56	1091.61	1089.87	1088.37	1087.09	1086.05	1085.78	1084.58	1084.11	1083.86
17.5	1072.51	1070.39	1068.58	1067.72	1065.82	1064.80	1064.09	1063.68	1063.50	1063.56
20.0	1048.66	1046.34	1044.41	1042.87	1041.72	1041.32	1040.47	1040.35	1041.12	1041.12
22.5	1022.11	1019.66	1017.72	1016.26	1015.25	1014.70	1015.41	1014.91	1015.62	1016.72
25.0	993.34	990.76	988.79	987.43	987.75	986.37	986.54	987.24	988.51	990.51
27.5	962.07	959.45	958.17	956.29	955.71	955.85	956.93	957.94	959.87	962.41
30.0	928.41	925.73	923.91	922.93	922.78	923.42	925.16	926.78	929.40	932.69
32.5	892.89	890.26	888.61	887.93	888.21	889.35	891.26	893.97	897.67	897.85
35.0	855.59	853.01	851.55	852.00	851.88	853.59	856.19	859.72	860.39	861.77
37.5	816.91	814.47	813.28	813.28	814.73	816.71	820.07	821.20	822.56	824.76
40.0	776.76	774.44	773.58	774.08	775.77	778.78	780.81	781.98	784.15	787.25
42.5	735.45	734.09	732.63	733.64	736.09	739.04	740.03	742.11	745.16	749.40
45.0	692.98	691.14	691.10	692.66	697.08	696.90	698.63	701.79	705.92	711.23
47.5	649.93	648.36	648.70	651.54	653.30	654.52	657.43	661.49	666.47	672.93
50.0	606.16	604.92	605.76	608.75	610.15	612.27	616.67	621.64	627.49	634.98
52.5	561.91	561.14	562.75	565.40	567.20	569.83	574.80	581.03	588.68	595.51
55.0	517.33	517.15	519.50	521.24	523.67	528.00	534.07	541.42	548.76	555.12
57.5	472.62	473.08	476.00	477.32	480.96	486.61	493.97	501.33	507.98	515.48
60.0	427.92	429.15	431.37	433.98	439.01	445.90	453.83	460.43	468.19	476.98
62.5	384.91	385.46	387.51	391.51	397.88	406.32	412.72	421.02	429.68	439.65
65.0	339.18	341.84	344.92	350.14	359.54	365.06	372.94	382.23	392.48	403.74
67.5	296.89	299.46	306.18	314.15	318.64	325.48	334.77	345.38	357.11	369.40
70.0	253.77	258.05	266.36	276.78	282.68	288.59	298.64	310.60	323.92	337.74
72.5	211.86	218.33	228.55	235.59	243.20	252.62	264.60	278.41	292.69	307.47
75.0	172.38	180.76	190.23	197.10	206.56	219.23	233.55	248.37	264.67	279.16
77.5	138.32	145.93	155.46	162.82	175.06	189.69	204.99	220.79	234.55	248.31
80.0	103.61	112.14	123.34	135.89	147.92	163.19	177.89	192.30	205.23	219.38
82.5	73.31	83.48	95.17	108.49	122.35	136.97	151.99	167.13	178.09	192.40
85.0	48.76	59.52	71.81	85.03	99.00	113.74	113.43	86.38	56.39	27.00
87.5	30.71	41.38	44.08	19.75	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u>300.0</u>	<u>302.5</u>	<u>305.0</u>	<u>307.5</u>	<u>310.0</u>	<u>312.5</u>	<u>315.0</u>	<u>317.5</u>	<u>320.0</u>	<u>322.5</u>
0.0	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40
2.5	1148.09	1147.81	1147.60	1147.26	1146.95	1146.65	1146.36	1146.08	1145.82	1145.58
5.0	1140.05	1139.58	1139.36	1138.72	1138.23	1137.78	1137.36	1136.97	1136.63	1136.37
7.5	1129.46	1128.92	1128.44	1128.00	1127.55	1127.48	1126.83	1126.71	1126.30	1126.09
10.0	1116.70	1116.06	1115.67	1115.35	1115.06	1114.86	1114.97	1114.63	1114.55	1114.77
12.5	1101.29	1101.00	1100.85	1100.80	1100.77	1100.87	1101.02	1101.22	1101.54	1101.81
15.0	1083.79	1083.75	1083.92	1084.24	1084.65	1085.24	1085.82	1086.94	1087.24	1088.32
17.5	1064.64	1064.39	1065.08	1065.93	1066.89	1068.00	1069.18	1070.45	1071.77	1073.14
20.0	1041.95	1043.00	1044.25	1045.74	1047.46	1049.26	1051.22	1053.22	1053.26	1053.75
22.5	1018.07	1019.77	1021.78	1024.02	1026.86	1026.98	1027.50	1028.28	1029.03	1029.89

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

25.0	992.37	994.84	997.74	998.19	998.83	999.83	1000.99	1002.33	1003.84	1005.52
27.5	965.16	966.46	967.31	968.38	969.83	971.71	974.00	975.68	978.01	980.36
30.0	933.35	934.28	935.92	937.62	939.84	942.47	945.29	948.40	951.38	954.70
32.5	899.08	900.84	903.76	905.96	909.25	912.62	916.41	920.34	924.57	929.26
35.0	863.81	866.52	870.14	874.26	878.55	882.35	887.14	891.89	897.03	902.19
37.5	827.77	831.53	835.71	840.72	845.72	851.23	857.12	863.23	868.44	871.99
40.0	791.26	795.89	801.23	807.10	813.32	820.03	825.63	829.88	834.50	839.47
42.5	754.39	760.07	766.53	773.44	779.83	784.64	789.87	795.29	801.46	806.45
45.0	717.14	724.19	731.71	737.16	742.56	748.47	754.59	760.95	767.79	773.81
47.5	680.16	687.46	693.02	699.21	706.05	712.51	719.64	726.86	734.20	741.54
50.0	641.90	647.85	654.54	661.54	669.29	677.01	685.04	693.19	701.37	709.49
52.5	601.91	608.76	616.50	624.82	633.15	642.14	651.00	660.04	668.94	677.04
55.0	562.34	570.59	579.21	588.47	597.99	607.62	617.38	626.17	634.99	643.52
57.5	523.97	533.09	542.93	553.05	563.43	572.98	582.62	592.15	601.53	610.68
60.0	486.53	496.84	507.48	517.81	528.12	538.53	548.77	559.06	568.89	578.50
62.5	450.35	461.21	471.99	482.87	493.99	505.06	515.86	526.60	536.97	546.98
65.0	414.69	426.04	437.58	449.30	461.06	472.62	484.04	495.09	505.95	516.26
67.5	380.23	392.29	404.60	416.93	429.66	441.34	453.19	464.45	475.64	486.23
70.0	348.46	360.23	373.16	385.92	398.98	411.01	423.02	434.65	446.02	456.82
72.5	321.39	329.91	342.91	355.93	368.85	381.47	393.79	405.72	417.17	428.15
75.0	292.61	301.89	313.77	327.38	340.24	353.06	366.16	377.78	389.10	400.26
77.5	262.11	274.73	286.05	299.56	312.81	326.05	338.25	350.24	361.80	372.73
80.0	233.40	247.21	259.69	273.27	286.54	279.37	254.98	231.02	207.69	185.04
82.5	197.26	170.56	143.41	116.02	88.60	61.42	34.56	8.28	0.00	0.00
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert. Angles**      **Horizontal Angles**

	<u>325.0</u>	<u>327.5</u>	<u>330.0</u>	<u>332.5</u>	<u>335.0</u>	<u>337.5</u>	<u>340.0</u>	<u>342.5</u>	<u>345.0</u>	<u>347.5</u>
0.0	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40	1153.40
2.5	1145.35	1145.13	1144.94	1144.76	1144.61	1144.44	1144.28	1144.14	1144.01	1143.91
5.0	1136.05	1135.81	1135.62	1135.47	1135.35	1135.17	1134.92	1134.70	1134.52	1134.40
7.5	1125.94	1125.90	1125.58	1125.34	1125.16	1125.03	1124.96	1124.93	1124.91	1124.70
10.0	1114.50	1114.48	1114.55	1114.61	1114.76	1114.81	1114.74	1114.74	1114.76	1114.86
12.5	1102.20	1102.52	1102.88	1103.19	1103.48	1103.82	1104.23	1104.48	1104.59	1104.73
15.0	1088.77	1089.64	1090.41	1091.23	1091.92	1092.54	1093.30	1093.75	1094.34	1094.60
17.5	1074.61	1075.87	1076.26	1076.41	1076.51	1076.62	1076.73	1076.71	1076.85	1076.97
20.0	1053.94	1054.41	1054.97	1055.84	1055.92	1056.43	1056.94	1057.35	1057.78	1057.94
22.5	1030.87	1031.97	1033.14	1034.06	1035.06	1035.95	1036.83	1037.66	1038.29	1038.78
25.0	1007.38	1008.81	1010.56	1012.17	1013.78	1015.30	1016.56	1017.79	1018.86	1019.64
27.5	982.80	985.24	987.58	989.97	992.18	994.29	996.63	997.76	999.29	1000.45
30.0	958.02	961.20	964.38	967.37	970.38	973.22	975.58	977.75	979.53	981.18
32.5	932.72	936.94	940.83	944.65	948.21	950.37	952.13	953.87	955.11	956.30
35.0	907.12	910.64	913.76	916.57	919.56	921.87	924.29	926.49	928.20	929.70
37.5	875.85	880.22	883.29	886.95	890.35	893.46	896.58	898.99	901.51	903.03
40.0	843.90	848.59	852.86	857.30	861.29	865.12	868.46	871.56	874.25	876.46
42.5	811.94	817.37	822.72	827.49	832.35	836.70	840.62	844.18	847.64	849.76
45.0	780.22	786.48	792.37	798.47	803.39	808.28	812.96	816.81	820.28	823.07
47.5	748.78	755.55	762.38	768.81	774.47	779.78	784.19	787.98	791.29	794.00
50.0	717.95	724.86	731.51	737.60	743.37	748.97	753.34	757.53	761.08	764.08
52.5	685.45	692.07	699.12	705.85	712.05	717.55	722.65	727.24	731.02	734.20
55.0	652.03	659.76	667.24	674.47	680.96	686.80	692.20	697.02	701.00	704.31
57.5	619.55	627.95	635.76	643.27	650.05	656.35	661.95	666.92	671.08	674.51
60.0	587.77	596.56	604.79	612.52	619.65	626.13	631.87	637.40	641.33	644.86

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

62.5	556.66	565.77	574.28	582.20	589.78	596.32	602.25	607.55	612.12	616.02
65.0	526.16	535.59	544.35	552.51	560.21	567.04	573.45	578.56	583.26	587.02
67.5	496.29	506.01	514.99	523.31	531.10	538.03	544.28	549.71	554.51	558.30
70.0	467.10	476.95	486.23	494.51	502.30	509.66	515.60	521.02	526.08	529.68
72.5	438.52	448.39	457.55	466.05	473.84	480.87	487.27	492.50	497.25	501.14
75.0	410.51	420.30	429.47	437.93	446.09	452.64	458.78	464.14	468.75	472.79
77.5	383.37	373.58	355.37	338.22	322.14	307.32	293.74	281.75	270.90	261.77
80.0	163.20	142.33	122.56	104.03	86.64	70.71	56.22	43.28	31.94	22.26
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert. Horizontal Angles**

	<u>350.0</u>	<u>352.5</u>	<u>355.0</u>	<u>357.5</u>	<u>360.0</u>
0.0	1153.40	1153.40	1153.40	1153.40	1153.40
2.5	1143.82	1143.75	1143.70	1143.67	1143.66
5.0	1134.23	1134.10	1134.00	1133.94	1133.92
7.5	1124.54	1124.43	1124.30	1124.21	1124.19
10.0	1114.79	1114.67	1114.58	1114.48	1114.45
12.5	1104.91	1104.88	1104.85	1104.74	1104.71
15.0	1094.84	1095.08	1095.03	1094.99	1094.97
17.5	1076.92	1076.82	1076.67	1076.50	1076.37
20.0	1058.09	1058.12	1058.09	1057.99	1057.77
22.5	1039.24	1039.46	1039.50	1039.48	1039.17
25.0	1020.28	1020.73	1020.86	1020.97	1020.57
27.5	1001.29	1001.92	1002.20	1002.38	1001.97
30.0	982.37	983.10	983.58	983.80	983.37
32.5	957.15	957.70	957.90	957.91	957.50
35.0	930.81	931.56	931.96	931.95	931.63
37.5	904.61	905.46	906.05	906.01	905.76
40.0	878.06	879.38	879.99	880.06	879.89
42.5	851.75	853.39	854.01	854.12	854.02
45.0	825.61	827.07	828.05	828.19	828.15
47.5	796.25	797.69	798.67	798.76	798.63
50.0	766.46	768.02	769.14	769.31	769.10
52.5	736.73	738.40	739.61	739.86	739.58
55.0	707.00	708.81	710.15	710.43	710.06
57.5	677.33	679.24	680.49	680.94	680.53
60.0	647.75	649.71	650.95	651.47	651.01
62.5	618.89	620.94	622.28	622.83	622.43
65.0	590.28	592.27	593.64	594.20	593.85
67.5	561.41	563.62	565.02	565.57	565.28
70.0	532.74	535.04	536.41	536.95	536.70
72.5	504.11	506.36	507.80	508.33	508.12
75.0	475.54	477.77	479.20	479.72	479.54
77.5	254.10	248.10	243.70	240.89	239.77
80.0	14.29	8.05	3.58	0.89	0.00
82.5	0.00	0.00	0.00	0.00	0.00
85.0	0.00	0.00	0.00	0.00	0.00
87.5	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00

**IES INDOOR REPORT**  
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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	419.88	42.00	11.70
0-30	892.68	89.30	24.80
0-40	1468.44	146.80	40.80
0-60	2667.68	266.80	74.20
0-80	3551.16	355.10	98.70
0-90	3597.15	359.70	100.00
10-90	3488.54	348.90	97.00
20-40	1048.56	104.90	29.10
20-50	1661.03	166.10	46.20
40-70	1712.21	171.20	47.60
60-80	883.48	88.30	24.60
70-80	370.52	37.10	10.30
80-90	45.99	4.60	1.30
90-110	0.00	0.00	0.00
90-120	0.00	0.00	0.00
90-130	0.00	0.00	0.00
90-150	0.00	0.00	0.00
90-180	0.00	0.00	0.00
110-180	0.00	0.00	0.00
0-180	3597.15	359.70	100.00

Total Luminaire Efficiency = 359.70%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	108.61
10-20	311.26
20-30	472.81
30-40	575.75
40-50	612.47
50-60	586.77
60-70	512.96
70-80	370.52
80-90	45.99
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

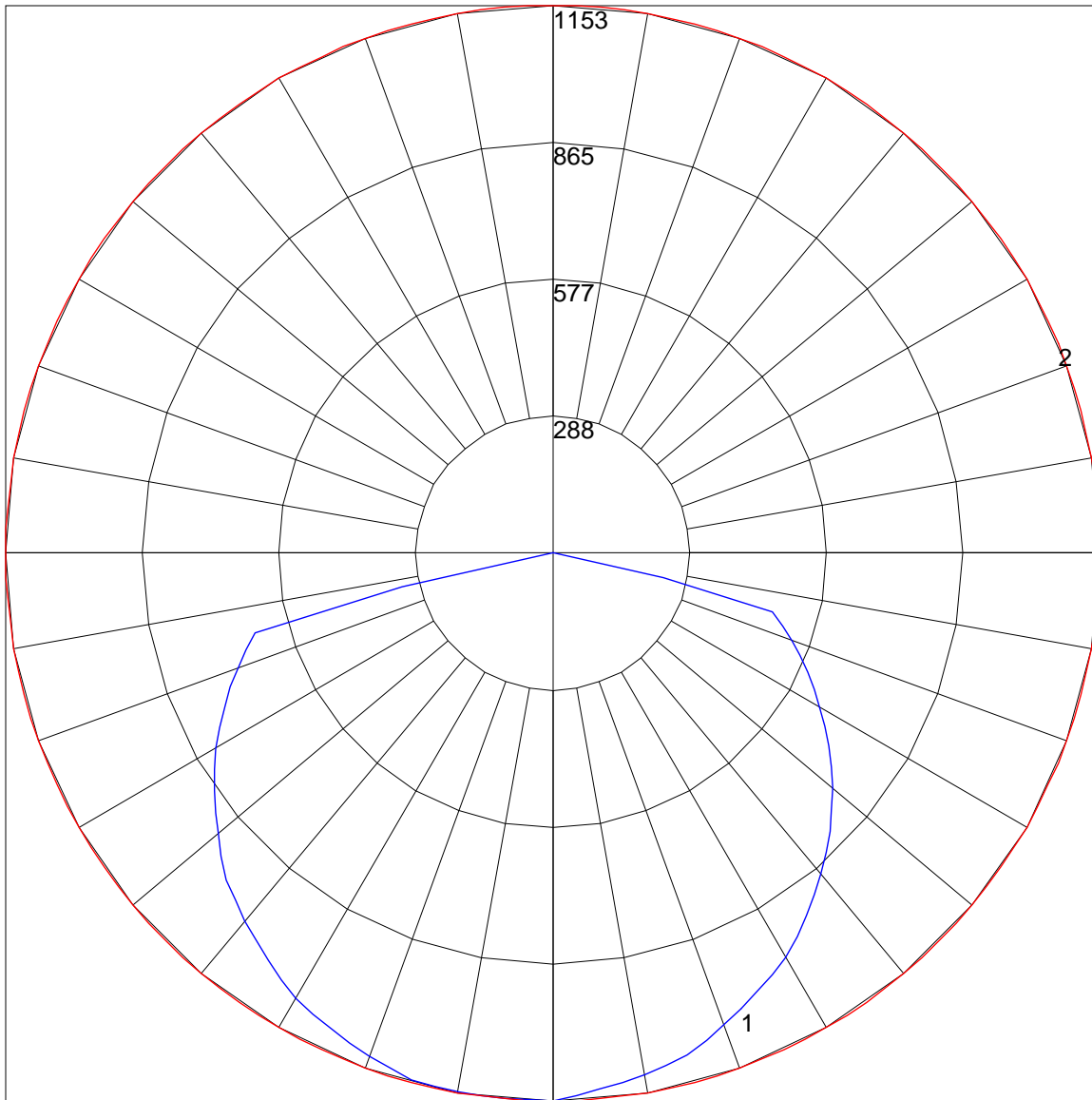
**IES INDOOR REPORT**  
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	428	428	428	428	418	418	418	418	400	400	400	383	383	383	367	367	367	360
1	389	371	354	340	379	362	348	334	347	335	323	333	323	314	320	312	304	296
2	351	319	293	271	341	312	288	268	300	279	262	288	271	256	276	262	250	242
3	318	278	247	222	309	272	243	220	261	237	216	251	230	212	242	224	209	200
4	290	245	212	186	282	240	209	185	231	204	182	222	199	180	214	194	177	169
5	266	218	184	159	258	214	182	158	206	178	156	199	174	155	192	170	153	145
6	245	195	162	138	238	192	160	137	185	157	136	179	154	135	173	151	134	126
7	227	177	144	121	221	174	143	121	168	140	120	163	138	119	158	135	118	111
8	211	161	130	108	205	159	128	108	154	126	107	149	124	106	145	122	105	98
9	197	148	117	97	192	145	116	97	141	115	96	137	113	95	134	111	95	88
10	185	136	107	88	180	134	106	87	131	105	87	127	103	87	124	102	86	80

POLAR GRAPH



Maximum Candela = 1153.4 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)