



# Photometric Toolbox™

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : LSBR48-LED45DMV50.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB] Dongguan New Testing Centre Co., Ltd

[TESTDATE] 03 July 2017

[ISSUEDATE] 2017-07-10 16:27:21

[NEARFIELD]

[LAMPPOSITION] 0,0

[OTHER] EVERFINE GO-R5000\_V2 SYSTEM

[MANUFAC] Mobern Lighting Co.

[LUMCAT] LSBR48-LED45DMV50

[LUMINAIRE] LED

[BALLAST] 120-277V,50/60Hz

[OTHER]

[OTHER]	Gamma(deg)	Fz(lm)	Ft(lm)	%Lum	%Lamp
[OTHER]	0- 10	152.26	152.26	2.47	2.47
[OTHER]	10- 20	436.73	589.00	9.57	9.57
[OTHER]	20- 30	664.85	1253.85	20.37	20.37
[OTHER]	30- 40	810.37	2064.21	33.54	33.54
[OTHER]	40- 50	860.26	2924.48	47.51	47.51
[OTHER]	50- 60	817.44	3741.91	60.79	60.79
[OTHER]	60- 70	701.41	4443.32	72.19	72.19
[OTHER]	70- 80	544.84	4988.16	81.04	81.04
[OTHER]	80- 90	388.51	5376.67	87.35	87.35
[OTHER]	90-100	270.17	5646.84	91.74	91.74
[OTHER]	100-110	186.75	5833.58	94.77	94.77
[OTHER]	110-120	123.96	5957.54	96.79	96.79
[OTHER]	120-130	79.99	6037.53	98.09	98.09
[OTHER]	130-140	53.36	6090.89	98.95	98.95
[OTHER]	140-150	33.41	6124.30	99.50	99.50
[OTHER]	150-160	18.93	6143.23	99.80	99.80
[OTHER]	160-170	9.24	6152.47	99.95	99.95
[OTHER]	170-180	2.84	6155.31	100.00	100.00
[OTHER]					

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**CHARACTERISTICS**

Lumens Per Lamp	6155.3 (1 lamp)
Total Lamp Lumens	6155.3
Luminaire Lumens	6155
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	46.7113
Ballast Factor	0.99
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.34
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.20 m
Luminous Width (90-270)	0.08 m
Luminous Height	0.00 m

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	18011	16278	14978
55	19067	16462	14079
65	21451	17573	13028
75	27996	21536	11457
85	65089	46114	8776

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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>
<b>0</b>	1608.669	1608.669	1608.669	1608.669	1608.669	1608.669	1608.669	1608.669	1608.669	1608.669
<b>1</b>	1609.210	1607.750	1606.680	1611.400	1608.580	1608.540	1605.800	1608.290	1607.920	1611.990
<b>2</b>	1608.400	1607.860	1604.710	1608.430	1606.790	1605.400	1609.550	1608.760	1610.260	1614.480
<b>3</b>	1607.910	1606.740	1605.100	1604.640	1605.920	1605.010	1610.180	1609.680	1609.080	1613.620
<b>4</b>	1604.380	1604.500	1602.220	1602.750	1604.260	1601.980	1607.380	1609.160	1606.370	1611.720
<b>5</b>	1603.070	1602.580	1599.290	1603.980	1601.070	1597.040	1606.280	1607.150	1606.280	1610.400
<b>6</b>	1600.310	1598.130	1597.580	1595.480	1597.930	1592.200	1601.180	1605.560	1604.110	1609.960
<b>7</b>	1596.600	1596.330	1590.750	1593.630	1593.460	1591.660	1597.750	1601.000	1600.310	1606.820
<b>8</b>	1592.390	1592.510	1589.020	1591.080	1588.490	1583.120	1593.950	1597.240	1596.690	1603.490
<b>9</b>	1589.190	1587.900	1585.460	1582.450	1582.290	1578.100	1591.250	1593.370	1592.870	1599.630
<b>10</b>	1584.740	1584.730	1580.630	1577.050	1573.210	1570.670	1586.140	1587.430	1587.500	1594.960
<b>11</b>	1579.810	1580.870	1574.160	1570.750	1568.710	1564.990	1579.010	1581.710	1583.000	1591.500
<b>12</b>	1574.450	1576.550	1568.370	1568.020	1561.000	1550.690	1572.720	1574.620	1577.940	1586.260
<b>13</b>	1568.180	1568.110	1563.600	1557.000	1551.140	1546.570	1564.470	1566.750	1571.660	1580.180
<b>14</b>	1564.840	1568.650	1558.760	1548.330	1542.620	1536.330	1554.990	1558.460	1564.380	1574.290
<b>15</b>	1559.300	1559.300	1549.530	1541.110	1533.860	1526.750	1545.840	1548.960	1556.410	1567.620
<b>16</b>	1551.890	1553.500	1545.680	1532.360	1522.190	1516.660	1536.910	1540.380	1547.360	1559.800
<b>17</b>	1545.360	1549.060	1535.090	1524.660	1511.260	1502.880	1525.890	1529.670	1538.810	1551.790
<b>18</b>	1539.220	1543.130	1528.150	1513.140	1501.710	1496.150	1515.420	1519.310	1529.130	1544.550
<b>19</b>	1533.080	1533.390	1518.580	1504.630	1486.520	1480.730	1503.570	1507.990	1517.620	1534.430
<b>20</b>	1527.990	1528.790	1516.850	1494.070	1478.690	1462.850	1490.490	1496.140	1505.690	1526.990
<b>21</b>	1517.400	1516.250	1503.390	1486.960	1466.920	1452.400	1477.490	1482.400	1494.140	1516.980
<b>22</b>	1512.530	1513.790	1492.400	1466.540	1450.490	1438.900	1464.320	1468.590	1481.740	1506.630
<b>23</b>	1502.650	1500.470	1484.860	1461.390	1436.770	1420.460	1450.030	1455.130	1469.830	1496.010
<b>24</b>	1493.350	1491.720	1471.680	1452.040	1420.870	1402.720	1435.880	1440.480	1457.480	1485.040
<b>25</b>	1479.450	1481.800	1459.930	1436.390	1405.050	1391.910	1419.880	1426.030	1443.780	1474.160
<b>26</b>	1468.750	1469.840	1447.700	1427.180	1395.750	1375.110	1404.240	1410.900	1430.120	1462.420
<b>27</b>	1461.870	1461.240	1441.000	1404.830	1378.970	1357.380	1387.980	1395.140	1415.780	1449.860
<b>28</b>	1455.070	1450.570	1427.130	1389.810	1358.210	1337.550	1371.180	1378.780	1400.610	1436.590
<b>29</b>	1442.900	1441.120	1419.020	1376.170	1343.140	1320.750	1353.230	1361.540	1385.180	1422.600
<b>30</b>	1435.440	1428.350	1404.310	1365.910	1326.700	1301.970	1335.030	1344.810	1370.000	1410.000
<b>31</b>	1417.550	1413.600	1389.230	1356.690	1307.810	1283.650	1316.990	1327.010	1353.480	1396.090
<b>32</b>	1403.140	1401.990	1376.170	1335.560	1289.800	1266.620	1298.190	1307.890	1336.930	1381.230
<b>33</b>	1393.380	1391.700	1362.020	1317.100	1275.780	1245.670	1277.820	1288.400	1318.860	1365.230
<b>34</b>	1382.320	1379.610	1349.900	1296.630	1259.710	1225.780	1257.150	1269.340	1300.860	1349.910
<b>35</b>	1372.380	1365.350	1336.720	1283.460	1234.180	1202.520	1236.080	1249.840	1283.180	1335.150
<b>36</b>	1353.250	1353.970	1324.670	1259.290	1216.660	1184.540	1216.170	1230.080	1265.580	1320.350
<b>37</b>	1349.790	1340.390	1305.160	1252.180	1195.790	1162.380	1195.490	1209.980	1246.900	1304.290
<b>38</b>	1333.540	1322.380	1286.640	1230.520	1176.150	1140.770	1172.770	1189.180	1228.080	1287.510
<b>39</b>	1319.490	1308.040	1272.240	1214.600	1158.000	1118.800	1151.130	1168.270	1209.290	1270.830
<b>40</b>	1298.440	1297.450	1260.080	1199.710	1137.700	1095.630	1129.210	1147.070	1191.050	1253.810
<b>41</b>	1284.710	1280.030	1239.350	1183.520	1116.620	1078.730	1107.020	1124.240	1170.300	1236.930
<b>42</b>	1272.890	1260.730	1225.260	1159.100	1094.200	1053.680	1085.930	1103.250	1149.570	1219.170
<b>43</b>	1252.580	1248.790	1206.910	1142.160	1074.770	1026.030	1062.950	1081.540	1129.850	1201.800
<b>44</b>	1238.590	1232.620	1188.980	1120.320	1054.590	1008.270	1040.520	1059.730	1110.270	1184.620
<b>45</b>	1223.150	1215.530	1175.850	1105.470	1031.430	984.590	1017.140	1037.200	1089.390	1165.550
<b>46</b>	1208.080	1198.500	1157.670	1085.990	1009.240	958.810	994.930	1014.390	1067.720	1147.090
<b>47</b>	1190.400	1183.520	1134.200	1065.070	990.090	936.120	970.690	992.000	1046.740	1127.310
<b>48</b>	1173.740	1162.740	1121.980	1047.240	971.200	911.810	946.320	968.730	1025.010	1107.350
<b>49</b>	1158.120	1147.230	1100.910	1026.650	946.950	887.420	921.890	945.260	1004.540	1088.270
<b>50</b>	1136.410	1127.350	1086.220	1004.150	923.550	862.490	897.730	922.150	982.990	1069.190
<b>51</b>	1124.350	1109.960	1066.630	985.430	903.130	840.360	874.660	898.990	961.050	1050.590
<b>52</b>	1106.490	1095.650	1046.750	967.820	880.970	816.770	851.590	875.490	940.140	1031.310
<b>53</b>	1087.650	1073.070	1030.450	945.070	858.740	794.770	825.570	852.140	918.380	1011.360

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**CANDELA TABULATION - (Cont.)**

54	1069.890	1058.550	1013.900	930.360	837.360	769.300	801.510	828.580	896.790	990.470
55	1050.320	1038.270	994.020	906.820	817.070	745.880	775.590	804.620	875.080	969.660
56	1029.880	1019.910	973.020	887.980	795.320	721.360	750.680	780.320	853.380	949.700
57	1015.700	1002.640	955.760	866.720	772.760	699.020	726.110	756.030	831.550	931.140
58	1000.020	981.770	937.490	846.420	750.130	676.600	701.180	731.600	809.520	910.490
59	977.690	963.990	918.750	829.640	731.780	650.720	675.830	708.700	788.210	890.380
60	955.920	946.280	898.930	809.450	708.770	626.860	651.520	685.010	767.030	869.510
61	938.230	926.450	881.070	788.300	687.730	602.340	626.190	661.890	744.660	848.610
62	925.000	909.170	860.020	767.880	667.170	580.840	601.310	638.350	722.270	828.260
63	904.230	890.800	841.330	748.760	645.090	556.620	577.200	614.330	701.120	807.530
64	883.920	874.010	823.730	731.840	622.600	534.020	552.900	590.310	681.130	786.640
65	870.680	855.010	804.360	713.260	603.430	509.520	528.800	567.650	661.380	766.390
66	849.150	838.620	787.050	694.870	582.140	487.070	504.420	543.650	639.590	746.300
67	833.000	819.010	769.310	676.530	564.790	466.450	478.770	519.900	617.700	727.090
68	814.070	799.340	748.870	656.140	542.330	442.840	454.340	496.660	598.140	707.960
69	798.660	784.550	730.920	639.710	523.430	421.750	429.940	474.510	578.150	689.000
70	779.210	764.830	714.590	622.020	506.490	397.010	404.650	451.280	556.960	669.800
71	761.650	748.810	695.050	603.950	486.140	377.160	380.160	429.060	538.340	651.140
72	746.310	732.120	678.050	586.510	467.820	356.180	356.310	407.710	518.250	631.750
73	730.370	716.210	662.030	568.410	450.180	332.850	331.620	386.490	497.370	612.830
74	712.600	699.880	644.370	552.300	431.490	314.320	308.270	364.130	478.690	594.800
75	695.910	682.350	626.290	535.320	414.420	294.710	284.790	342.990	460.500	577.750
76	680.530	665.350	611.940	519.540	397.620	275.180	261.310	321.970	441.400	560.030
77	664.540	649.230	597.530	501.380	380.080	256.120	238.140	301.670	423.970	542.760
78	647.400	633.890	581.650	485.700	364.970	237.830	215.030	282.180	406.030	525.730
79	630.770	619.500	564.260	471.040	347.160	220.350	192.440	263.070	388.760	508.800
80	617.920	603.500	549.960	456.320	332.820	203.400	170.300	244.400	371.990	492.460
81	602.300	588.070	534.410	441.260	318.990	187.560	149.810	227.470	355.660	476.360
82	588.160	572.280	521.690	427.260	303.610	171.890	129.230	209.940	339.720	460.440
83	573.180	559.160	507.040	413.990	290.310	157.250	109.740	193.710	323.960	444.860
84	557.690	542.760	492.420	400.020	277.080	144.330	90.910	177.900	309.420	429.340
85	544.830	528.710	477.130	386.000	264.180	131.870	73.460	162.830	295.270	414.750
86	530.450	514.480	464.420	373.240	253.260	120.060	56.710	149.140	280.960	400.520
87	516.400	501.780	451.230	360.930	241.740	110.570	42.320	136.390	268.390	386.830
88	503.410	488.160	437.840	348.300	229.180	100.310	29.440	124.140	255.380	373.000
89	489.760	475.270	423.080	335.510	218.730	91.660	19.010	113.500	243.020	359.750
90	478.010	462.180	413.620	323.550	208.750	83.760	10.830	103.220	231.050	347.090
91	464.990	449.570	400.330	313.360	198.060	76.450	5.250	94.190	219.710	335.210
92	452.870	438.150	390.410	302.840	189.730	70.810	2.020	85.880	208.970	322.480
93	442.100	425.850	378.200	293.540	181.210	65.100	2.030	78.680	199.040	310.300
94	428.750	415.080	366.670	282.740	172.380	60.710	2.230	71.830	190.140	300.290
95	416.750	403.100	355.910	273.200	165.420	56.360	2.430	65.570	181.010	288.930
96	404.870	392.240	345.140	263.670	158.300	52.720	2.710	60.730	171.980	279.220
97	394.730	380.710	334.770	254.900	150.930	49.020	3.040	56.260	164.450	269.600
98	383.350	370.810	324.230	246.310	144.600	44.830	3.390	52.190	156.320	258.700
99	372.490	360.490	314.570	237.510	138.870	41.040	3.790	48.770	148.640	249.200
100	362.470	349.830	304.760	229.610	133.450	38.020	4.250	44.320	142.270	239.740
101	352.700	339.490	295.790	221.720	127.750	36.350	4.660	40.800	135.240	230.460
102	343.110	329.430	287.050	213.730	123.160	35.330	5.130	37.120	128.770	221.730
103	331.970	319.890	278.690	206.250	116.940	34.010	5.680	35.470	123.380	215.360
104	323.040	310.800	269.420	199.600	111.320	32.990	6.220	34.600	118.470	207.250
105	313.840	301.230	262.570	192.980	104.760	32.010	6.760	33.410	112.580	199.610
106	305.410	292.930	253.290	186.600	99.170	31.260	7.310	32.460	107.220	191.250
107	295.390	284.160	245.710	180.100	93.370	30.580	7.980	31.530	101.070	184.330
108	288.060	275.480	238.060	173.070	88.260	29.790	8.580	30.920	95.210	177.910
109	279.150	266.970	230.370	165.890	84.410	29.390	9.110	30.380	90.060	171.710

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**CANDELA TABULATION - (Cont.)**

110	271.270	258.840	223.820	158.550	81.760	29.000	9.650	29.840	84.740	164.860
111	262.820	251.520	215.750	151.220	79.360	28.530	10.060	29.380	80.400	157.620
112	255.010	243.880	207.860	143.910	77.650	28.380	10.600	28.970	77.170	151.020
113	246.960	235.990	199.210	136.860	75.530	27.990	11.210	28.500	75.340	142.910
114	239.030	227.810	190.370	130.110	73.680	27.660	11.830	28.100	74.040	136.070
115	230.080	218.820	182.830	124.010	71.840	27.580	12.430	27.840	72.180	129.580
116	221.300	209.470	174.000	119.180	69.800	27.390	13.180	27.440	70.020	123.000
117	211.920	200.310	166.040	115.520	68.150	27.190	13.980	27.300	68.120	117.240
118	201.730	191.930	158.720	112.680	66.380	27.050	14.790	27.110	66.360	112.730
119	193.950	183.770	151.200	109.960	64.880	26.850	15.530	26.900	64.570	109.040
120	185.370	175.390	144.700	107.710	63.170	26.650	16.270	26.700	62.870	106.480
121	177.100	167.150	140.130	104.800	61.720	26.520	17.020	26.700	61.380	104.420
122	169.070	159.540	136.050	101.680	60.370	26.380	17.690	26.370	59.870	101.670
123	161.550	153.590	132.520	99.130	58.850	26.250	18.300	26.300	58.510	98.890
124	155.620	148.500	129.650	96.350	57.350	26.180	18.920	26.370	57.090	96.170
125	150.410	144.340	126.470	93.630	56.230	25.920	19.640	26.500	55.840	93.420
126	146.210	140.690	123.100	91.150	54.940	25.780	20.250	26.770	54.620	90.920
127	142.720	137.510	119.380	88.600	53.810	25.770	20.930	26.900	53.470	88.390
128	139.780	134.040	115.750	86.080	52.650	25.510	21.470	27.100	52.410	86.150
129	136.500	130.560	112.230	83.500	51.530	25.380	22.020	27.370	51.490	83.660
130	132.300	126.690	108.860	81.180	50.570	25.380	22.680	27.500	50.470	81.250
131	128.740	123.000	105.590	78.800	49.490	25.240	23.220	27.840	49.460	78.880
132	124.710	119.100	102.210	76.400	48.560	24.770	23.630	28.040	48.610	76.860
133	120.670	115.330	98.790	74.270	47.410	24.370	24.030	28.440	47.590	74.750
134	117.120	111.410	96.070	72.110	46.530	23.830	24.300	28.700	46.900	72.770
135	112.820	107.710	92.750	70.200	45.600	23.570	24.570	29.110	45.910	71.000
136	109.030	104.230	89.790	68.220	44.640	23.640	24.840	29.440	45.120	69.100
137	105.320	100.280	86.940	66.050	43.790	23.570	25.110	29.710	44.580	67.190
138	101.540	96.950	83.930	64.140	42.900	23.510	25.380	29.980	43.970	65.420
139	98.210	93.680	81.260	62.220	42.110	23.570	25.440	30.240	43.160	63.930
140	94.590	90.420	78.440	60.550	41.210	23.570	25.510	30.650	42.290	62.360
141	91.500	87.360	75.810	58.830	40.480	23.770	25.650	30.850	41.690	60.710
142	88.110	84.250	73.330	57.210	39.750	24.040	25.780	31.050	41.100	59.290
143	84.950	81.120	70.870	55.610	39.070	24.030	25.850	31.380	40.820	57.820
144	81.650	78.130	68.410	54.040	38.380	23.770	26.060	31.580	40.480	56.470
145	78.510	75.320	66.160	52.430	37.660	23.640	26.250	31.720	40.020	55.100
146	75.650	72.500	63.900	50.950	37.050	23.300	26.460	31.850	39.620	53.740
147	72.470	69.710	61.750	49.560	36.240	22.770	26.860	31.250	39.610	52.610
148	70.020	67.160	59.310	48.080	35.230	22.700	26.790	31.120	39.220	51.320
149	67.300	64.370	57.320	46.650	34.020	22.570	26.850	31.050	39.160	49.960
150	64.620	62.000	55.440	45.260	32.680	22.090	26.590	31.510	39.160	48.880
151	62.020	59.510	53.270	43.970	31.530	21.620	26.660	31.720	39.010	48.000
152	59.640	57.050	51.430	42.600	30.350	21.160	26.790	31.380	38.610	46.920
153	57.110	54.880	49.520	41.140	29.320	20.550	26.930	30.050	38.010	46.310
154	54.660	52.790	47.730	39.460	28.370	20.490	26.930	28.720	37.330	45.700
155	52.420	50.530	45.960	37.750	27.490	20.420	26.790	28.110	36.200	44.560
156	50.120	48.570	44.340	36.020	26.360	20.360	26.820	27.700	35.460	43.080
157	47.710	46.680	42.560	34.200	26.220	20.290	26.850	27.700	34.790	41.860
158	45.690	44.830	41.090	32.430	25.760	20.220	26.880	27.570	34.190	40.710
159	43.620	42.950	39.260	30.760	25.160	20.360	26.910	27.300	33.920	39.540
160	41.760	41.260	36.870	29.280	24.410	20.490	26.930	27.170	33.780	38.550
161	39.860	39.550	34.570	28.150	24.000	20.630	27.200	27.240	33.120	37.310
162	38.010	37.420	32.780	27.410	23.730	21.170	27.270	26.840	32.110	36.240
163	36.050	35.880	31.150	26.870	23.640	21.700	27.820	27.100	31.310	35.490
164	34.420	34.340	29.590	26.180	23.540	22.170	28.350	27.840	31.040	34.950
165	32.880	32.930	27.910	25.110	23.450	22.840	29.030	28.000	30.830	34.680

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

166	31.510	31.380	26.490	24.180	23.360	23.440	29.500	28.160	30.170	34.340
167	30.110	30.100	25.220	23.570	23.260	24.520	29.970	28.320	30.180	33.800
168	28.690	28.610	23.930	22.840	22.990	25.720	30.580	28.480	30.710	33.330
169	27.400	26.740	23.250	22.700	22.990	27.200	31.260	28.640	30.900	32.590
170	26.170	24.860	22.500	22.230	23.260	28.670	31.920	29.110	29.970	30.580
171	25.030	22.980	21.560	21.960	24.190	29.870	32.810	29.850	29.430	30.150
172	24.020	21.580	21.150	22.040	25.270	31.080	33.750	30.180	29.700	30.210
173	23.270	20.030	20.740	22.510	26.410	32.080	34.760	30.850	29.970	29.880
174	23.260	19.030	21.210	23.860	27.490	32.890	35.700	31.660	29.900	28.930
175	22.250	19.650	22.750	25.420	29.030	33.490	36.320	32.470	29.560	28.250
176	22.380	21.380	24.580	26.900	30.050	33.890	37.050	33.530	28.900	27.980
177	18.960	23.750	26.870	28.440	31.120	34.090	37.180	34.200	28.970	27.980
178	22.170	26.700	29.650	30.130	31.790	34.690	36.780	34.530	30.510	27.920
179	26.830	28.770	30.390	31.200	32.870	35.560	36.580	35.000	31.510	30.080
180	27.660	27.660	27.660	27.660	27.660	27.660	27.660	27.660	27.660	27.660

**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	1608.669	1608.669	1608.669	1608.669	1608.669	1608.669	1608.669	1608.669	1608.669	1608.669
1	1609.460	1611.050	1610.300	1608.970	1606.980	1608.890	1609.940	1608.190	1605.500	1606.470
2	1607.890	1611.920	1610.990	1608.830	1606.140	1610.900	1607.910	1607.760	1601.050	1604.540
3	1610.610	1610.260	1609.750	1610.010	1606.920	1610.760	1607.620	1605.610	1598.940	1599.430
4	1609.980	1610.500	1610.170	1607.770	1605.730	1606.020	1606.390	1603.260	1596.540	1597.340
5	1608.500	1609.350	1608.680	1607.750	1602.330	1608.320	1603.050	1600.110	1589.730	1593.060
6	1606.910	1607.380	1607.010	1605.460	1601.750	1602.540	1600.590	1595.600	1585.170	1590.630
7	1606.600	1603.950	1604.190	1601.840	1596.960	1598.870	1593.630	1592.010	1577.760	1586.370
8	1604.670	1604.010	1602.090	1598.030	1595.140	1593.120	1589.270	1586.480	1573.800	1578.270
9	1601.290	1600.720	1601.500	1595.920	1591.610	1588.950	1586.730	1580.710	1560.860	1567.810
10	1598.120	1598.750	1597.740	1593.660	1587.920	1582.820	1579.570	1574.440	1558.060	1559.170
11	1591.340	1595.510	1596.610	1589.000	1583.180	1579.280	1576.080	1567.420	1552.130	1548.530
12	1585.330	1589.960	1594.390	1585.160	1578.390	1572.400	1570.320	1560.610	1541.990	1543.210
13	1581.620	1583.890	1588.990	1581.270	1572.240	1563.480	1561.620	1552.320	1527.660	1534.220
14	1576.740	1580.630	1584.160	1576.560	1566.670	1554.620	1554.020	1542.290	1516.880	1519.490
15	1571.030	1579.290	1579.160	1571.660	1560.220	1549.220	1543.140	1532.300	1507.190	1508.570
16	1565.220	1571.510	1574.500	1567.590	1554.450	1543.710	1532.770	1521.940	1496.450	1498.180
17	1559.530	1566.770	1569.150	1559.780	1546.800	1532.170	1520.180	1509.330	1483.500	1483.420
18	1552.260	1560.070	1563.390	1553.080	1540.090	1522.420	1508.940	1497.330	1470.410	1473.680
19	1544.950	1555.050	1556.400	1546.820	1532.180	1511.590	1497.720	1484.060	1451.110	1455.650
20	1537.510	1547.230	1550.460	1540.210	1523.810	1501.820	1486.800	1471.110	1438.370	1441.830
21	1528.540	1542.620	1542.390	1532.460	1514.720	1491.770	1475.120	1458.130	1424.500	1429.030
22	1521.160	1533.190	1534.220	1525.550	1506.060	1481.070	1461.720	1444.800	1405.800	1415.510
23	1512.100	1524.920	1527.650	1517.030	1495.820	1469.650	1447.710	1430.420	1392.580	1391.450
24	1503.170	1517.460	1518.710	1508.310	1484.820	1457.090	1433.610	1414.930	1373.450	1379.790
25	1493.360	1509.130	1510.190	1499.190	1477.000	1445.180	1418.820	1399.510	1357.720	1360.820
26	1483.800	1502.250	1502.480	1490.540	1466.130	1431.980	1404.420	1383.610	1339.460	1345.130
27	1474.110	1493.500	1493.390	1481.210	1455.470	1418.400	1388.800	1365.650	1320.630	1325.580
28	1463.240	1484.110	1483.760	1471.460	1444.680	1404.360	1373.020	1348.570	1304.860	1311.310
29	1451.030	1470.450	1474.830	1459.990	1432.980	1391.650	1357.570	1331.330	1281.770	1288.650
30	1439.840	1461.510	1465.700	1450.410	1421.340	1377.450	1341.020	1312.310	1262.270	1272.610
31	1427.990	1453.360	1456.760	1438.390	1410.030	1361.230	1323.960	1293.940	1238.710	1250.720
32	1414.850	1443.580	1448.080	1429.050	1397.380	1345.160	1306.780	1275.350	1216.700	1231.710
33	1402.960	1431.400	1438.360	1418.370	1384.060	1329.960	1288.930	1256.190	1201.820	1210.230
34	1390.080	1418.730	1428.250	1404.290	1370.290	1316.680	1271.060	1236.050	1176.950	1189.550
35	1375.660	1407.020	1416.060	1392.460	1355.880	1299.020	1252.920	1215.470	1159.470	1170.010
36	1361.540	1394.960	1404.310	1380.760	1342.800	1281.680	1233.430	1194.850	1138.780	1151.370

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

37	1347.970	1382.890	1392.090	1367.050	1328.720	1264.960	1214.300	1173.820	1112.770	1124.740
38	1334.970	1371.410	1379.650	1354.850	1313.950	1248.200	1194.850	1151.810	1090.810	1100.440
39	1320.610	1359.160	1365.850	1342.120	1302.610	1230.050	1175.290	1129.690	1068.840	1083.710
40	1305.420	1344.300	1353.560	1327.430	1285.710	1212.810	1156.130	1107.170	1046.250	1060.330
41	1289.130	1329.960	1340.520	1313.850	1269.630	1196.770	1134.650	1084.530	1019.830	1033.880
42	1273.770	1315.220	1326.790	1299.530	1255.670	1176.330	1113.550	1063.550	996.210	1014.130
43	1259.870	1301.990	1311.900	1284.150	1238.480	1160.450	1092.840	1041.530	972.460	990.200
44	1243.900	1285.920	1298.230	1268.670	1221.870	1142.020	1072.130	1019.110	948.680	966.990
45	1226.830	1270.600	1282.800	1252.980	1206.400	1122.520	1050.110	995.710	924.000	945.270
46	1210.480	1255.880	1267.840	1237.800	1189.730	1103.270	1028.620	973.320	905.470	921.760
47	1194.130	1240.570	1253.050	1220.920	1172.450	1085.320	1008.170	949.760	876.070	894.180
48	1177.600	1224.550	1237.550	1205.720	1154.640	1065.540	986.820	926.180	851.560	873.850
49	1158.790	1207.990	1220.330	1189.430	1137.000	1044.550	965.260	902.150	831.230	849.150
50	1142.050	1191.180	1202.850	1173.450	1119.320	1025.210	943.620	879.160	795.970	824.390
51	1124.500	1172.880	1186.210	1155.830	1102.980	1007.050	920.640	856.690	778.270	799.500
52	1106.320	1156.400	1169.570	1137.320	1085.620	987.040	898.860	832.030	749.230	777.540
53	1087.210	1138.780	1151.490	1120.410	1066.940	967.020	876.480	808.170	728.350	753.510
54	1069.010	1121.760	1134.910	1102.150	1048.140	946.060	854.240	784.720	705.690	729.700
55	1050.620	1104.270	1116.750	1084.860	1028.910	926.450	831.890	760.480	680.510	707.050
56	1031.790	1087.210	1100.260	1066.810	1009.660	906.330	810.540	735.250	654.590	681.770
57	1013.210	1069.100	1083.180	1047.560	990.880	886.990	790.020	712.180	629.540	659.440
58	993.840	1049.680	1065.300	1030.710	971.580	867.380	768.660	687.810	606.100	634.770
59	974.820	1030.230	1047.120	1013.350	952.660	847.920	748.140	663.690	579.050	609.470
60	954.890	1010.600	1028.250	993.910	933.380	827.850	726.380	639.640	555.130	585.940
61	934.890	991.950	1009.920	974.350	913.630	806.540	704.080	615.600	529.570	563.610
62	916.800	974.920	991.540	954.790	894.790	786.870	682.320	593.360	505.710	538.460
63	897.580	955.440	972.490	936.560	875.380	767.130	660.290	569.580	481.020	515.030
64	879.380	936.070	952.540	918.000	857.060	749.260	639.640	545.660	454.230	493.100
65	860.330	917.710	935.230	900.250	838.500	729.320	618.220	521.760	433.110	470.980
66	841.410	899.350	916.340	880.750	819.640	710.770	597.330	498.770	407.450	446.680
67	822.650	880.040	897.580	860.780	800.680	690.700	576.540	475.800	380.840	424.200
68	803.890	860.370	878.200	843.470	782.050	672.820	557.120	452.340	358.120	402.020
69	785.330	841.140	859.220	824.910	763.290	653.180	536.370	429.830	336.190	381.260
70	766.940	821.240	840.400	806.340	744.150	633.470	516.530	407.570	311.650	360.190
71	747.020	802.500	821.630	788.560	724.820	616.200	497.540	385.340	286.340	339.380
72	728.320	783.960	802.780	769.950	707.110	597.990	478.210	363.720	261.300	318.470
73	710.060	765.070	784.040	751.590	689.670	580.700	459.360	342.530	239.500	297.900
74	691.000	746.780	766.460	732.950	671.640	561.570	440.340	321.090	214.170	279.100
75	673.200	729.260	747.830	715.360	652.830	545.090	422.730	300.440	192.560	260.570
76	655.670	710.980	729.320	696.970	636.470	527.940	404.920	280.140	171.580	241.740
77	637.620	693.460	711.700	680.830	618.650	511.790	387.100	260.500	150.770	224.180
78	621.050	675.900	693.730	664.230	602.640	494.740	371.000	241.780	130.180	207.830
79	604.110	658.160	676.170	646.720	584.970	478.020	354.170	223.390	110.100	191.490
80	587.310	641.780	658.870	629.410	569.440	462.850	337.630	205.680	91.790	176.320
81	570.500	624.490	641.900	611.880	552.890	447.170	322.720	188.530	73.960	161.370
82	554.580	607.890	625.920	596.100	537.090	432.220	307.820	172.120	57.980	147.410
83	538.390	590.970	609.630	579.910	520.710	417.710	293.270	156.860	42.680	135.290
84	522.190	574.800	592.820	564.690	505.460	403.190	279.130	142.900	29.890	123.320
85	507.730	558.840	578.050	548.590	491.870	389.250	265.470	129.280	19.140	113.100
86	493.000	543.300	562.030	533.670	476.830	374.720	251.230	117.270	11.070	102.780
87	477.730	528.730	546.130	517.930	461.890	361.900	239.740	105.970	5.250	94.230
88	464.090	514.350	531.180	504.770	447.970	348.490	227.800	95.590	2.100	86.080
89	450.840	500.140	516.240	489.570	434.380	336.280	216.650	86.670	2.110	79.090
90	436.850	485.470	502.370	475.080	420.730	323.550	205.740	78.380	2.120	72.740
91	423.210	472.280	488.230	461.710	407.790	311.450	194.800	70.550	2.130	66.950
92	410.360	458.610	474.070	448.040	395.230	299.780	184.530	64.020	2.140	62.150

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

93	398.020	443.910	459.940	434.870	381.160	289.000	175.760	58.180	2.150	57.600
94	383.950	432.030	447.650	422.580	371.810	278.690	167.330	53.130	2.560	53.740
95	372.510	419.360	432.480	410.540	358.070	267.780	158.670	48.940	3.040	50.140
96	360.540	406.920	420.820	398.870	347.570	257.630	150.930	45.000	3.690	45.830
97	349.550	394.540	409.210	385.820	333.850	246.900	143.690	41.790	4.180	41.470
98	338.470	383.030	397.200	373.630	324.070	239.160	136.640	37.820	4.900	38.250
99	329.120	370.940	384.820	362.920	313.320	229.940	130.870	34.420	5.520	36.000
100	316.140	360.260	375.590	353.590	304.360	221.570	125.580	31.720	6.210	34.780
101	306.880	347.590	363.440	341.050	293.380	213.580	118.910	30.680	6.730	33.440
102	297.600	338.070	352.430	331.970	284.320	205.280	114.490	29.960	7.220	32.190
103	288.790	328.490	340.520	321.830	276.200	197.660	108.850	29.130	7.810	31.370
104	278.220	318.420	329.910	311.110	265.330	191.200	102.970	28.410	8.490	30.580
105	268.100	309.230	320.300	302.200	258.020	184.780	97.830	27.930	9.180	29.840
106	259.750	299.380	311.340	291.750	249.160	177.230	92.120	27.190	9.900	29.310
107	251.040	289.540	301.230	283.250	241.070	171.140	86.010	26.800	10.460	28.710
108	243.260	280.290	292.380	274.780	232.430	164.350	81.550	26.590	11.200	28.440
109	234.100	271.470	281.710	265.550	225.240	158.160	77.520	26.390	11.930	27.970
110	227.760	263.030	272.670	256.590	217.220	150.750	74.880	25.980	12.550	27.630
111	220.420	253.530	264.790	248.630	210.880	143.600	73.730	25.850	13.210	27.440
112	212.600	245.150	257.410	240.970	203.370	137.020	71.890	25.590	13.900	27.300
113	205.400	238.020	248.870	233.030	194.920	130.330	70.040	25.190	14.560	26.970
114	196.870	231.020	241.320	225.010	188.320	123.310	68.200	25.110	15.240	26.900
115	189.060	223.040	232.700	216.530	179.900	117.480	66.360	24.980	15.770	26.770
116	181.660	214.360	225.180	209.520	172.010	112.610	64.710	24.850	16.450	26.630
117	173.480	205.100	216.510	199.630	164.520	108.850	62.890	24.910	16.930	26.630
118	165.450	196.790	207.670	191.630	157.050	106.140	61.470	24.580	17.400	26.500
119	157.950	188.320	198.980	183.760	149.680	104.120	60.130	24.110	17.680	26.500
120	150.760	179.980	190.360	175.660	142.530	101.900	58.650	24.240	18.150	26.430
121	143.450	172.100	182.240	167.250	136.280	99.500	57.460	25.030	18.680	26.370
122	137.060	164.220	174.080	159.830	131.960	96.740	56.240	25.440	19.100	26.310
123	132.280	156.970	165.970	152.710	128.150	94.110	55.190	25.850	19.690	26.260
124	128.580	149.740	158.580	145.950	124.760	91.620	54.100	26.300	20.230	26.210
125	125.730	144.150	151.720	140.890	122.580	89.290	53.210	26.640	20.850	26.150
126	122.920	139.980	146.300	137.170	119.750	86.800	52.220	27.040	21.320	26.100
127	119.950	136.050	142.030	134.040	116.620	84.310	51.210	27.390	21.730	26.030
128	116.810	132.840	138.430	131.140	113.280	81.940	50.410	27.780	22.190	25.960
129	113.110	130.060	135.290	127.630	109.950	79.780	49.380	28.320	22.600	25.900
130	109.700	126.230	132.080	124.160	106.680	77.900	48.400	28.720	22.870	25.830
131	106.320	122.640	128.580	120.620	103.400	75.780	47.710	29.200	23.280	25.760
132	102.930	118.620	124.750	116.940	100.630	73.740	46.830	29.530	23.550	25.360
133	99.950	115.170	120.570	113.280	97.620	71.850	45.980	29.860	23.750	25.030
134	97.000	111.560	117.060	109.760	94.610	70.040	45.360	30.330	23.950	24.560
135	93.730	107.830	113.260	106.330	91.940	68.230	44.700	30.540	24.230	24.290
136	91.050	104.040	109.800	103.090	89.280	66.610	44.140	30.990	24.560	24.160
137	88.210	100.590	106.080	99.630	86.580	64.900	42.990	31.270	24.900	24.020
138	85.440	97.420	102.460	96.340	84.050	63.310	41.940	31.810	25.100	24.090
139	83.000	94.370	99.180	93.200	81.400	61.950	41.210	32.340	25.370	24.420
140	80.240	91.460	95.760	90.470	78.980	60.400	41.070	33.000	25.510	24.690
141	78.000	88.370	92.830	87.410	76.600	58.770	41.070	33.410	25.840	25.090
142	75.680	85.520	89.840	84.690	74.340	57.430	40.860	33.550	26.320	25.100
143	73.280	82.940	86.880	81.870	72.070	56.220	40.470	33.680	26.730	25.160
144	70.910	80.370	84.160	79.320	70.110	54.870	40.330	33.820	26.790	25.020
145	68.640	77.550	81.340	76.570	68.080	53.770	40.130	34.080	26.780	24.890
146	66.810	75.190	78.500	74.270	66.120	52.570	39.990	34.420	26.770	24.690
147	65.050	72.840	75.810	71.690	64.040	50.830	39.730	34.550	26.750	24.690
148	62.890	70.490	73.360	69.630	62.330	49.300	39.590	34.620	26.740	24.490



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

149	61.230	68.160	70.890	67.440	60.620	48.190	39.460	34.290	26.730	24.160
150	59.520	66.090	68.700	65.310	58.690	47.510	39.460	33.890	26.460	24.020
151	57.770	64.030	66.210	63.360	57.410	46.910	39.260	33.430	26.190	23.890
152	56.040	62.020	64.210	61.390	55.680	46.170	39.120	33.280	25.920	23.750
153	54.630	60.040	62.110	59.440	53.600	45.290	39.120	33.150	25.850	23.620
154	53.140	58.280	60.160	57.610	51.790	44.600	39.060	33.020	25.920	23.290
155	51.560	56.480	58.470	55.540	50.780	44.010	39.120	32.950	25.780	23.090
156	50.110	54.310	56.370	53.440	49.570	43.200	38.990	32.750	25.580	22.950
157	48.760	52.550	54.400	51.720	48.550	42.720	38.720	32.410	25.510	22.950
158	47.680	51.060	52.320	50.490	47.530	42.120	38.450	31.950	25.310	23.020
159	46.530	49.370	51.030	49.030	46.320	41.240	38.250	32.010	25.710	23.220
160	45.310	48.200	49.540	47.750	45.440	40.310	37.910	32.080	26.180	23.490
161	44.300	46.870	48.080	46.540	44.510	39.550	37.640	32.080	26.650	23.950
162	43.150	45.640	46.920	45.460	43.760	39.280	37.500	31.740	27.660	24.760
163	42.010	44.570	45.560	44.240	42.810	38.810	36.890	31.810	28.820	25.490
164	40.650	43.680	44.540	43.370	41.740	38.810	35.540	31.940	29.950	26.290
165	39.370	42.610	43.680	42.430	40.660	38.540	34.410	31.680	31.090	26.770
166	37.890	41.710	42.730	41.490	39.980	38.140	33.950	31.340	32.390	27.570
167	36.750	40.780	41.710	40.750	39.510	37.800	33.470	30.870	33.530	28.310
168	35.790	40.230	40.900	40.200	39.230	37.200	32.730	30.470	34.620	29.370
169	34.730	40.020	40.300	40.000	38.300	35.400	31.790	30.600	35.560	29.910
170	33.780	39.550	39.890	39.400	37.550	34.250	31.600	31.210	36.370	30.440
171	33.180	38.680	39.210	38.720	36.650	33.560	32.000	32.400	36.980	31.520
172	30.950	36.990	38.680	37.180	34.520	32.690	32.060	33.820	37.460	32.380
173	29.460	34.020	36.440	35.290	33.970	32.010	31.930	35.360	37.660	33.050
174	28.110	32.260	35.970	34.220	32.890	31.670	31.650	36.560	37.520	33.720
175	26.770	28.950	34.610	32.220	31.740	31.400	30.650	37.160	37.390	34.060
176	26.430	25.710	33.060	30.600	30.930	30.730	30.870	37.230	37.260	34.190
177	24.960	23.190	31.490	29.110	29.450	29.310	32.670	37.370	37.120	34.590
178	25.310	20.430	28.120	27.100	28.720	30.310	33.880	37.170	37.120	35.130
179	27.930	20.820	26.850	27.960	30.330	32.190	34.280	36.900	36.780	35.130
180	27.660	27.660	27.660	27.660	27.660	27.660	27.660	27.660	27.660	27.660

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

	<u>300</u>	<u>315</u>	<u>330</u>	<u>345</u>	<u>360</u>
0	1608.669	1608.669	1608.669	1608.669	1608.669
1	1605.790	1609.540	1608.720	1609.270	1609.210
2	1604.270	1606.300	1608.470	1607.890	1608.400
3	1599.210	1610.580	1600.840	1605.630	1607.910
4	1594.260	1604.480	1601.960	1606.610	1604.380
5	1590.940	1594.670	1598.360	1603.290	1603.070
6	1586.750	1594.040	1596.650	1596.170	1600.310
7	1580.950	1588.150	1588.690	1593.840	1596.600
8	1574.050	1584.280	1584.840	1591.680	1592.390
9	1568.330	1580.290	1580.320	1587.370	1589.190
10	1560.270	1573.680	1576.690	1580.750	1584.740
11	1551.340	1564.200	1569.420	1575.080	1579.810
12	1540.410	1557.130	1560.870	1572.690	1574.450
13	1534.850	1552.770	1556.960	1567.330	1568.180
14	1523.390	1542.110	1550.870	1561.560	1564.840
15	1512.330	1533.380	1545.040	1553.590	1559.300
16	1499.700	1522.480	1536.360	1546.370	1551.890
17	1484.690	1507.400	1526.080	1539.870	1545.360
18	1478.040	1502.940	1518.420	1534.260	1539.220
19	1467.580	1491.550	1508.350	1529.150	1533.080

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CANDELA TABULATION - (Cont.)

20	1453.450	1480.570	1496.110	1513.590	1527.990
21	1435.260	1466.320	1486.460	1500.310	1517.400
22	1417.590	1455.140	1478.680	1498.940	1512.530
23	1407.160	1441.650	1467.450	1490.860	1502.650
24	1391.860	1429.370	1462.730	1483.340	1493.350
25	1377.380	1419.200	1451.950	1474.040	1479.450
26	1364.530	1403.210	1437.820	1459.070	1468.750
27	1339.840	1389.230	1423.980	1450.720	1461.870
28	1327.770	1379.040	1412.320	1442.780	1455.070
29	1312.120	1363.760	1395.900	1432.170	1442.900
30	1292.990	1347.890	1379.360	1419.110	1435.440
31	1276.760	1330.800	1367.990	1407.470	1417.550
32	1257.380	1314.660	1357.790	1397.880	1403.140
33	1234.040	1298.520	1341.730	1379.260	1393.380
34	1216.230	1276.840	1321.980	1367.410	1382.320
35	1197.510	1264.830	1310.750	1356.090	1372.380
36	1176.430	1242.690	1297.240	1343.080	1353.250
37	1158.530	1228.930	1285.690	1327.030	1349.790
38	1138.890	1213.470	1263.730	1317.510	1333.540
39	1116.660	1196.820	1246.340	1300.720	1319.490
40	1097.830	1176.960	1237.100	1286.190	1298.440
41	1077.380	1155.970	1220.970	1269.690	1284.710
42	1056.990	1138.160	1200.210	1250.150	1272.890
43	1035.790	1117.700	1185.490	1238.870	1252.580
44	1012.950	1101.920	1165.970	1221.110	1238.590
45	994.840	1081.570	1145.800	1203.990	1223.150
46	972.700	1063.500	1133.560	1189.000	1208.080
47	950.070	1043.160	1110.740	1171.220	1190.400
48	930.000	1024.060	1093.130	1159.340	1173.740
49	910.320	1001.640	1073.640	1135.780	1158.120
50	885.600	983.300	1057.780	1118.370	1136.410
51	864.770	963.290	1035.540	1102.840	1124.350
52	842.620	943.510	1019.220	1085.440	1106.490
53	821.380	921.710	998.330	1065.260	1087.650
54	799.600	901.240	979.380	1049.080	1069.890
55	776.440	882.470	965.580	1031.010	1050.320
56	756.350	863.080	944.560	1013.660	1029.880
57	734.420	841.400	927.070	996.410	1015.700
58	710.810	822.610	904.440	976.740	1000.020
59	689.080	801.550	888.560	956.150	977.690
60	669.120	783.000	870.540	938.790	955.920
61	649.090	762.530	851.600	922.210	938.230
62	630.060	740.020	833.210	902.840	925.000
63	608.540	722.990	815.820	886.900	904.230
64	587.930	703.890	797.420	867.280	883.920
65	567.390	683.100	780.200	847.820	870.680
66	544.870	666.110	761.300	831.880	849.150
67	528.510	649.170	742.410	814.410	833.000
68	508.210	630.390	724.840	796.720	814.070
69	490.020	611.200	710.520	780.330	798.660
70	472.210	594.760	694.520	763.120	779.210
71	453.630	577.860	677.910	745.650	761.650
72	435.750	561.040	660.470	728.630	746.310
73	420.640	545.240	643.120	711.210	730.370
74	404.030	530.610	628.200	694.560	712.600
75	385.040	511.680	608.120	678.270	695.910

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

76	368.990	496.620	595.740	662.360	680.530
77	351.840	481.510	580.840	646.900	664.540
78	337.700	465.540	565.140	631.960	647.400
79	322.520	451.250	550.650	615.210	630.770
80	308.230	437.880	534.020	600.220	617.920
81	295.290	422.970	519.780	585.690	602.300
82	282.670	411.690	506.910	569.930	588.160
83	269.020	397.600	493.180	555.980	573.180
84	256.910	383.650	479.140	542.120	557.690
85	244.400	371.790	464.510	527.670	544.830
86	233.870	358.670	453.270	514.460	530.450
87	222.820	347.670	440.030	502.460	516.400
88	213.840	335.930	427.460	488.060	503.410
89	203.890	325.230	415.650	475.750	489.760
90	195.360	314.980	403.920	461.860	478.010
91	186.850	304.370	392.500	449.830	464.990
92	179.090	294.410	381.570	438.300	452.870
93	170.260	284.990	370.950	426.340	442.100
94	162.890	275.000	360.000	414.990	428.750
95	156.050	266.150	350.000	403.640	416.750
96	149.710	256.810	338.750	391.820	404.870
97	143.800	248.270	328.760	381.160	394.730
98	137.200	240.050	319.080	371.340	383.350
99	131.970	232.520	309.870	361.200	372.490
100	126.950	225.130	301.320	351.400	362.470
101	121.470	216.940	292.460	341.260	352.700
102	115.930	209.770	283.150	331.220	343.110
103	109.670	203.190	274.920	321.840	331.970
104	103.180	196.450	266.340	312.950	323.040
105	97.030	189.690	258.680	303.110	313.840
106	91.240	183.720	251.130	293.790	305.410
107	86.040	176.180	243.490	285.290	295.390
108	82.600	168.900	236.080	276.890	288.060
109	80.400	161.320	228.790	268.040	279.150
110	78.560	153.730	221.280	260.500	271.270
111	76.780	146.180	212.810	252.620	262.820
112	74.940	138.940	204.270	244.850	255.010
113	72.970	131.940	195.900	236.320	246.960
114	71.190	126.210	187.010	227.930	239.030
115	69.360	121.050	179.300	219.160	230.080
116	67.660	117.010	171.010	209.960	221.300
117	66.080	113.950	163.480	201.120	211.920
118	64.390	111.620	155.780	192.300	201.730
119	62.900	109.220	148.780	183.490	193.950
120	61.380	106.380	143.530	175.330	185.370
121	60.080	103.510	138.550	167.180	177.100
122	58.520	100.650	135.440	159.760	169.070
123	57.340	97.780	132.070	154.110	161.550
124	55.920	95.170	129.230	149.170	155.620
125	54.810	92.310	126.100	145.050	150.410
126	53.780	89.630	122.530	141.890	146.210
127	52.400	87.190	119.170	138.960	142.720
128	51.240	84.600	115.540	135.250	139.780
129	50.180	82.140	111.760	131.610	136.500
130	49.160	79.750	108.460	127.800	132.300
131	48.140	77.360	105.040	124.080	128.740

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

132	47.090	75.230	101.630	119.680	124.710
133	46.070	73.020	98.250	116.020	120.670
134	45.060	70.790	95.250	112.150	117.120
135	44.070	68.730	92.100	108.300	112.820
136	43.190	66.750	89.190	104.600	109.030
137	42.130	64.970	85.970	101.190	105.320
138	41.310	62.980	83.370	97.540	101.540
139	40.390	61.000	80.370	94.250	98.210
140	39.890	59.190	77.750	90.910	94.590
141	38.970	57.790	75.070	87.650	91.500
142	38.170	56.160	72.330	84.560	88.110
143	37.490	54.440	69.890	81.330	84.950
144	36.940	52.980	67.480	78.410	81.650
145	36.030	51.500	65.310	75.550	78.510
146	35.280	49.940	63.050	72.800	75.650
147	34.410	48.370	60.910	69.990	72.470
148	33.210	47.090	58.480	67.180	70.020
149	32.120	45.750	56.490	64.960	67.300
150	31.520	44.450	54.610	62.230	64.620
151	30.720	43.040	52.370	59.730	62.020
152	30.180	41.830	50.600	57.340	59.640
153	29.580	40.530	48.700	55.200	57.110
154	29.040	39.380	46.840	52.850	54.660
155	28.310	38.050	45.150	50.780	52.420
156	27.770	36.620	43.600	48.720	50.120
157	27.230	35.260	41.750	46.700	47.710
158	26.560	33.860	40.280	44.840	45.690
159	26.030	32.370	38.530	42.750	43.620
160	25.290	30.750	36.430	40.960	41.760
161	24.820	29.870	34.870	39.250	39.860
162	24.480	29.250	33.610	37.170	38.010
163	24.140	28.320	32.120	35.590	36.050
164	23.740	27.510	30.700	34.130	34.420
165	23.410	26.290	29.470	32.710	32.880
166	23.200	25.340	28.210	31.360	31.510
167	23.000	24.730	26.920	29.850	30.110
168	23.000	24.060	25.300	28.520	28.690
169	23.470	23.450	24.560	27.170	27.400
170	24.320	22.910	23.890	25.750	26.170
171	25.330	22.990	23.270	24.650	25.030
172	26.410	23.540	22.730	23.310	24.020
173	27.290	24.680	22.730	22.240	23.270
174	28.560	26.030	23.870	22.450	23.260
175	29.560	27.440	25.550	23.460	22.250
176	30.770	28.460	26.840	24.880	22.380
177	31.370	29.950	28.250	27.110	18.960
178	31.780	30.820	29.810	27.510	22.170
179	32.180	31.430	30.350	26.630	26.830
180	27.660	27.660	27.660	27.660	27.660

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

Zone	Lumens	%Lamp	%Fixt
0-20	589.00	9.60	9.60
0-30	1253.85	20.40	20.40
0-40	2064.21	33.50	33.50
0-60	3741.91	60.80	60.80
0-80	4988.16	81.00	81.00
0-90	5376.67	87.40	87.40
10-90	5224.4	84.90	84.90
20-40	1475.22	24.00	24.00
20-50	2335.48	37.90	37.90
40-70	2379.11	38.70	38.70
60-80	1246.25	20.20	20.20
70-80	544.84	8.90	8.90
80-90	388.51	6.30	6.30
90-110	456.91	7.40	7.40
90-120	580.87	9.40	9.40
90-130	660.86	10.70	10.70
90-150	747.63	12.10	12.10
90-180	778.64	12.60	12.60
110-180	321.72	5.20	5.20
0-180	6155.31	100.00	100.00

Total Luminaire Efficiency = 100.00%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	152.26
10-20	436.73
20-30	664.85
30-40	810.37
40-50	860.26
50-60	817.44
60-70	701.41
70-80	544.84
80-90	388.51
90-100	270.17
100-110	186.75
110-120	123.96
120-130	79.99
130-140	53.36
140-150	33.41
150-160	18.93
160-170	9.24
170-180	2.84

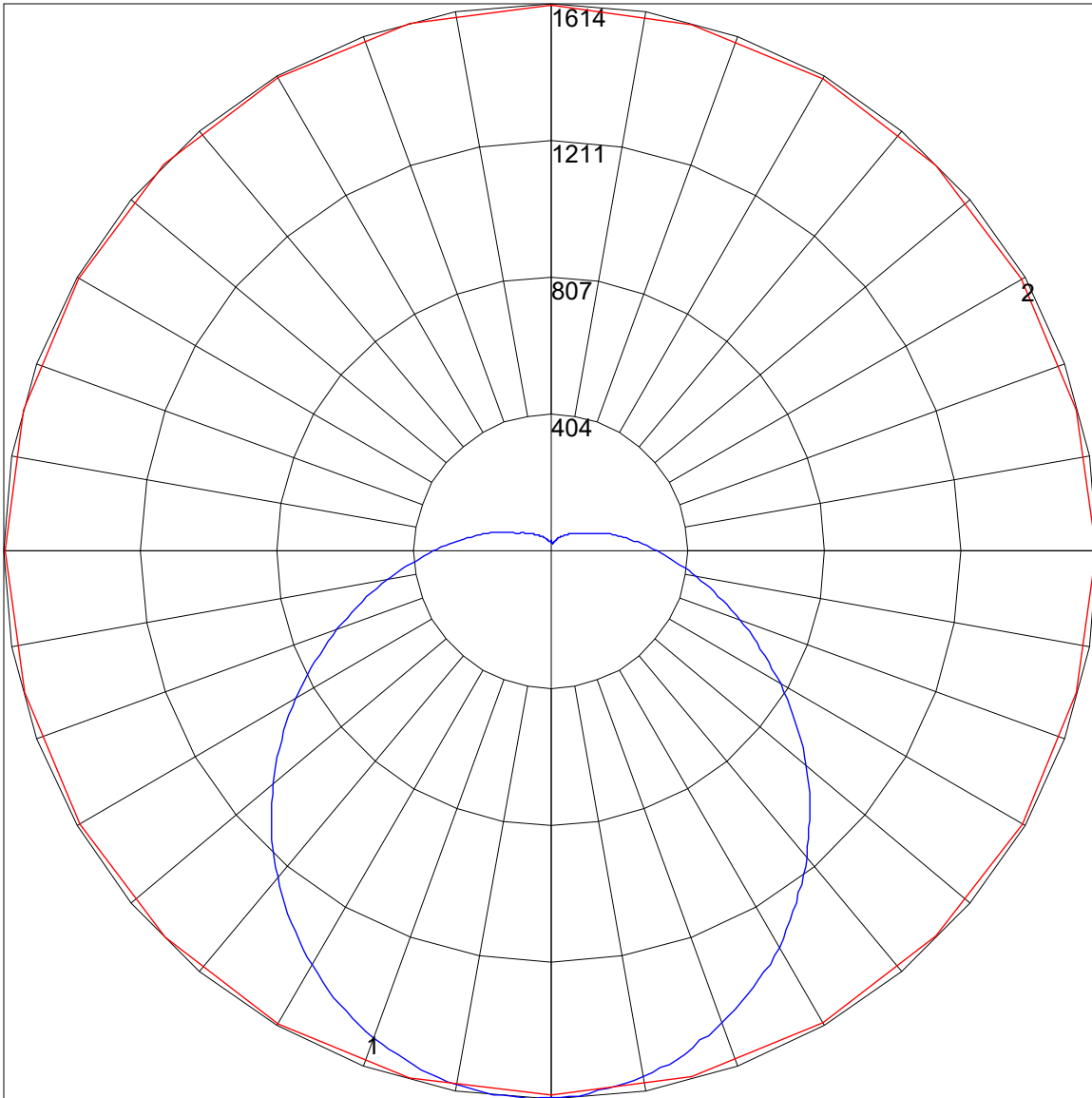
**IES INDOOR REPORT**  
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87
1	104	98	93	88	99	94	90	85	88	84	80	82	79	76	76	73	71	68
2	93	84	77	70	89	81	74	68	75	70	65	70	66	61	65	62	58	55
3	85	73	64	57	81	71	63	56	66	59	53	61	56	51	57	53	49	46
4	77	65	55	48	74	62	54	47	58	51	45	54	48	43	51	46	41	39
5	71	57	48	41	68	56	47	40	52	44	39	49	42	37	45	40	36	33
6	65	52	42	36	63	50	41	35	47	39	34	44	37	32	41	36	31	29
7	60	47	38	31	58	45	37	31	42	35	30	40	33	29	38	32	27	25
8	56	42	34	28	54	41	33	27	39	32	26	37	30	25	34	29	25	22
9	52	39	30	25	50	38	30	24	36	29	24	34	27	23	32	26	22	20
10	49	36	28	22	47	35	27	22	33	26	21	31	25	21	29	24	20	18

POLAR GRAPH



Maximum Candela = 1614.48 Located At Horizontal Angle = 135, Vertical Angle = 2  
# 1 - Vertical Plane Through Horizontal Angles (135 - 315) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2) (Through Max. Cd.)