



## IES ROAD REPORT

PHOTOMETRIC FILENAME : SWPM-WB-LED-PL2-50.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST]DCL-150-070W-50K-8-3PC  
[TESTLAB]Standard-Tech Co., Ltd.  
[TESTDATE]2015-11-25  
[ISSUE DATE]2016-05-09  
[MANUFACT]LSI INDUSTRIES, INC  
[LUMCAT]SWPM-WB-LED-PL2-50  
[OTHER]TEST PROCEDURE: IESNA LM-79-08  
[\_ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED  
[\_SEARCH\_SOURCE TYPE] LED  
[\_SEARCH\_APPLICATION] Outdoor

### CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6364
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	67.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.22
Maximum Candela	2244.836
Maximum Candela Angle	360H 80V
Maximum Candela (<90 Degrees Vertical)	2244.836
Maximum Candela Angle (<90 Degrees Vertical)	360H 80V
Maximum Candela At 90 Degrees Vertical	1909.175 (30.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	2244.836 (35.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : SWPM-WB-LED-PL2-50.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	612.0	N.A.	9.6
FM - Front-Medium (30-60)	1648.8	N.A.	25.9
FH - Front-High (60-80)	1375.7	N.A.	21.6
FVH - Front-Very High (80-90)	639.6	N.A.	10.1
BL - Back-Low (0-30)	298.9	N.A.	4.7
BM - Back-Medium (30-60)	295.4	N.A.	4.6
BH - Back-High (60-80)	86.3	N.A.	1.4
BVH - Back-Very High (80-90)	19.9	N.A.	0.3
UL - Uplight-Low (90-100)	526.5	N.A.	8.3
UH - Uplight-High (100-180)	860.8	N.A.	13.5
Total	6363.9	N.A.	100.0
BUG Rating	B1-U4-G4		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b>0.0</b>	<b>2.5</b>	<b>5.0</b>	<b>7.5</b>	<b>10.0</b>	<b>12.5</b>	<b>15.0</b>	<b>17.5</b>	<b>20.0</b>	<b>22.5</b>
<b>0.0</b>	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383
<b>2.5</b>	1288.592	1289.070	1289.549	1290.028	1290.507	1290.986	1291.465	1291.943	1292.422	1292.901
<b>5.0</b>	1385.170	1385.042	1384.914	1384.786	1384.658	1384.530	1384.402	1384.274	1384.146	1384.018
<b>7.5</b>	1478.312	1476.859	1475.407	1473.955	1472.502	1471.050	1469.598	1468.145	1466.693	1465.241
<b>10.0</b>	1473.716	1476.959	1480.201	1483.444	1486.686	1489.929	1493.171	1496.414	1499.656	1502.899
<b>12.5</b>	1554.577	1548.428	1542.278	1536.129	1529.979	1523.830	1517.680	1511.531	1505.381	1499.232
<b>15.0</b>	1707.103	1699.051	1690.998	1682.946	1674.894	1666.841	1658.789	1650.737	1642.684	1634.632
<b>17.5</b>	1649.534	1646.790	1644.046	1641.302	1638.558	1635.815	1633.071	1630.327	1627.583	1624.840
<b>20.0</b>	1624.279	1626.778	1629.277	1631.776	1634.275	1636.774	1639.273	1641.772	1644.271	1646.770
<b>22.5</b>	1661.621	1660.863	1660.106	1659.348	1658.590	1657.833	1657.075	1656.317	1655.560	1654.802
<b>25.0</b>	1760.836	1754.682	1748.528	1742.374	1736.220	1730.066	1723.912	1717.758	1711.604	1705.450
<b>27.5</b>	1601.130	1611.779	1622.428	1633.078	1643.727	1654.376	1665.026	1675.675	1686.325	1696.974
<b>30.0</b>	1731.093	1720.303	1709.512	1698.722	1687.931	1677.141	1666.350	1655.560	1644.769	1633.979
<b>32.5</b>	1762.774	1757.528	1752.283	1747.037	1741.792	1736.546	1731.300	1726.055	1720.809	1715.564
<b>35.0</b>	1911.582	1890.757	1869.932	1849.107	1828.282	1807.457	1786.632	1765.807	1744.982	1724.157
<b>37.5</b>	1826.239	1828.351	1830.463	1832.575	1834.687	1836.799	1838.911	1841.023	1843.135	1845.247
<b>40.0</b>	1815.161	1820.869	1826.576	1832.284	1837.991	1843.699	1849.406	1855.114	1860.821	1866.529
<b>42.5</b>	2010.262	1992.414	1974.566	1956.719	1938.871	1921.023	1903.175	1885.328	1867.480	1849.632
<b>45.0</b>	2036.563	2022.657	2008.751	1994.845	1980.939	1967.033	1953.127	1939.221	1925.315	1911.409
<b>47.5</b>	2096.248	2077.458	2058.668	2039.878	2021.088	2002.297	1983.507	1964.717	1945.927	1927.137
<b>50.0</b>	2117.704	2102.954	2088.203	2073.453	2058.703	2043.952	2029.202	2014.452	1999.701	1984.951
<b>52.5</b>	2051.914	2045.011	2038.108	2031.206	2024.303	2017.401	2010.498	2003.596	1996.693	1989.791
<b>55.0</b>	2223.794	2204.156	2184.517	2164.879	2145.240	2125.602	2105.963	2086.325	2066.686	2047.048
<b>57.5</b>	2121.248	2113.434	2105.621	2097.807	2089.993	2082.179	2074.365	2066.551	2058.738	2050.924
<b>60.0</b>	2095.559	2076.598	2057.638	2038.677	2019.716	2000.756	1981.795	1962.834	1943.874	1924.913
<b>62.5</b>	2121.029	2095.996	2070.963	2045.930	2020.897	1995.864	1970.831	1945.798	1920.765	1895.732
<b>65.0</b>	2174.263	2149.953	2125.643	2101.333	2077.023	2052.713	2028.403	2004.093	1979.783	1955.473
<b>67.5</b>	2229.746	2210.311	2190.877	2171.442	2152.008	2132.574	2113.139	2093.705	2074.270	2054.836
<b>70.0</b>	2185.646	2168.809	2151.972	2135.136	2118.299	2101.462	2084.625	2067.789	2050.952	2034.115
<b>72.5</b>	2178.001	2151.023	2124.044	2097.066	2070.087	2043.109	2016.130	1989.152	1962.173	1935.195
<b>75.0</b>	2057.462	2037.381	2017.299	1997.218	1977.136	1957.055	1936.973	1916.892	1896.810	1876.729
<b>77.5</b>	2072.212	2046.870	2021.529	1996.188	1970.846	1945.505	1920.164	1894.823	1869.481	1844.140
<b>80.0</b>	2244.836	2212.968	2181.100	2149.232	2117.364	2085.495	2053.627	2021.759	1989.891	1958.023
<b>82.5</b>	2106.382	2082.511	2058.640	2034.769	2010.898	1987.027	1963.157	1939.286	1915.415	1891.544
<b>85.0</b>	2066.653	2040.907	2015.161	1989.415	1963.669	1937.923	1912.177	1886.431	1860.685	1834.939
<b>87.5</b>	1957.916	1932.120	1906.324	1880.528	1854.732	1828.937	1803.141	1777.345	1751.549	1725.754
<b>90.0</b>	1909.175	1881.878	1854.580	1827.283	1799.985	1772.688	1745.390	1718.093	1690.795	1663.498
<b>92.5</b>	1787.407	1769.886	1752.364	1734.843	1717.322	1699.800	1682.279	1664.758	1647.236	1629.715
<b>95.0</b>	1696.199	1678.621	1661.043	1643.465	1625.887	1608.309	1590.731	1573.153	1555.575	1537.997
<b>97.5</b>	1583.331	1562.514	1541.697	1520.880	1500.063	1479.245	1458.428	1437.611	1416.794	1395.977
<b>100.0</b>	1527.634	1504.372	1481.111	1457.849	1434.587	1411.326	1388.064	1364.802	1341.541	1318.279
<b>102.5</b>	1440.169	1422.115	1404.061	1386.007	1367.953	1349.899	1331.845	1313.791	1295.737	1277.683
<b>105.0</b>	1291.861	1280.434	1269.006	1257.579	1246.151	1234.724	1223.296	1211.869	1200.441	1189.014
<b>107.5</b>	1085.194	1088.907	1092.620	1096.334	1100.047	1103.760	1107.474	1111.187	1114.900	1118.614
<b>110.0</b>	886.941	901.636	916.331	931.025	945.720	960.415	975.110	989.804	1004.499	1019.194
<b>112.5</b>	814.817	825.792	836.766	847.741	858.715	869.690	880.665	891.639	902.614	913.589
<b>115.0</b>	781.493	786.825	792.158	797.490	802.822	808.155	813.487	818.819	824.152	829.484
<b>117.5</b>	686.894	694.698	702.503	710.308	718.112	725.917	733.722	741.526	749.331	757.136
<b>120.0</b>	601.412	608.447	615.481	622.516	629.551	636.585	643.620	650.655	657.689	664.724
<b>122.5</b>	531.079	535.889	540.699	545.510	550.320	555.131	559.941	564.752	569.562	574.373
<b>125.0</b>	474.922	476.105	477.288	478.472	479.655	480.838	482.021	483.205	484.388	485.571
<b>127.5</b>	413.799	413.604	413.410	413.215	413.021	412.827	412.632	412.438	412.243	412.049
<b>130.0</b>	361.386	359.950	358.514	357.078	355.642	354.207	352.771	351.335	349.899	348.463

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**CANDELA TABULATION - (Cont.)**

132.5	311.218	309.587	307.957	306.327	304.696	303.066	301.436	299.806	298.175	296.545
135.0	265.526	263.998	262.471	260.943	259.415	257.888	256.360	254.832	253.305	251.777
137.5	228.954	227.792	226.630	225.468	224.305	223.143	221.981	220.819	219.657	218.495
140.0	194.371	193.691	193.011	192.331	191.651	190.971	190.291	189.611	188.931	188.251
142.5	169.096	168.406	167.716	167.027	166.337	165.647	164.958	164.268	163.579	162.889
145.0	146.900	145.873	144.846	143.820	142.793	141.766	140.739	139.713	138.686	137.659
147.5	133.182	131.747	130.312	128.877	127.442	126.008	124.573	123.138	121.703	120.269
150.0	118.300	116.597	114.893	113.190	111.486	109.783	108.079	106.376	104.672	102.969
152.5	100.037	98.206	96.375	94.544	92.713	90.882	89.051	87.220	85.389	83.559
155.0	78.591	76.854	75.116	73.379	71.641	69.904	68.166	66.429	64.691	62.954
157.5	55.937	54.400	52.862	51.325	49.787	48.250	46.713	45.175	43.638	42.101
160.0	30.641	29.721	28.800	27.880	26.960	26.039	25.119	24.199	23.278	22.358
162.5	14.658	14.138	13.619	13.100	12.581	12.062	11.543	11.024	10.505	9.986
165.0	4.315	4.003	3.692	3.380	3.068	2.757	2.445	2.133	1.822	1.510
167.5	1.306	1.306	1.307	1.307	1.308	1.308	1.309	1.309	1.310	1.311
170.0	1.255	1.287	1.318	1.350	1.382	1.413	1.445	1.477	1.508	1.540
172.5	1.438	1.483	1.529	1.574	1.619	1.665	1.710	1.755	1.801	1.846
175.0	1.856	1.873	1.890	1.907	1.924	1.941	1.958	1.975	1.992	2.009
177.5	2.060	2.091	2.122	2.154	2.185	2.216	2.247	2.278	2.309	2.341
180.0	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000

**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>
0.0	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383
2.5	1291.851	1290.801	1289.751	1288.701	1287.651	1286.601	1285.551	1284.501	1283.451	1280.020
5.0	1374.762	1365.506	1356.250	1346.994	1337.738	1328.482	1319.226	1309.970	1300.714	1297.555
7.5	1456.465	1447.690	1438.914	1430.139	1421.363	1412.588	1403.812	1395.037	1386.262	1377.359
10.0	1499.760	1496.620	1493.481	1490.342	1487.202	1484.063	1480.924	1477.784	1474.645	1458.892
12.5	1498.518	1497.805	1497.091	1496.378	1495.664	1494.951	1494.237	1493.524	1492.811	1478.550
15.0	1616.238	1597.844	1579.450	1561.056	1542.662	1524.268	1505.874	1487.480	1469.086	1461.699
17.5	1612.124	1599.408	1586.692	1573.976	1561.260	1548.544	1535.828	1523.112	1510.396	1502.059
20.0	1641.769	1636.767	1631.766	1626.764	1621.763	1616.761	1611.760	1606.758	1601.757	1577.105
22.5	1646.275	1637.748	1629.221	1620.693	1612.166	1603.639	1595.112	1586.585	1578.058	1554.308
25.0	1686.175	1666.901	1647.626	1628.352	1609.077	1589.803	1570.528	1551.254	1531.979	1510.017
27.5	1677.426	1657.877	1638.329	1618.781	1599.232	1579.684	1560.136	1540.587	1521.039	1501.219
30.0	1623.249	1612.518	1601.788	1591.057	1580.327	1569.596	1558.866	1548.135	1537.405	1515.443
32.5	1703.883	1692.202	1680.522	1668.841	1657.160	1645.480	1633.799	1622.118	1610.438	1572.676
35.0	1699.999	1675.841	1651.683	1627.525	1603.366	1579.208	1555.050	1530.892	1506.734	1477.122
37.5	1799.309	1753.372	1707.434	1661.497	1615.559	1569.622	1523.684	1477.747	1431.810	1404.100
40.0	1819.457	1772.385	1725.313	1678.241	1631.170	1584.098	1537.026	1489.954	1442.882	1415.281
42.5	1803.301	1756.970	1710.638	1664.307	1617.976	1571.645	1525.313	1478.982	1432.651	1399.576
45.0	1865.281	1819.153	1773.025	1726.897	1680.770	1634.642	1588.514	1542.386	1496.258	1454.396
47.5	1872.388	1817.639	1762.890	1708.141	1653.391	1598.642	1543.893	1489.144	1434.395	1394.439
50.0	1918.581	1852.210	1785.840	1719.470	1653.099	1586.729	1520.359	1453.988	1387.618	1346.488
52.5	1923.884	1857.978	1792.072	1726.166	1660.260	1594.354	1528.447	1462.541	1396.635	1353.908
55.0	1976.003	1904.958	1833.912	1762.867	1691.822	1620.777	1549.731	1478.686	1407.641	1362.199
57.5	1982.451	1913.979	1845.506	1777.034	1708.561	1640.088	1571.616	1503.143	1434.671	1387.778
60.0	1875.162	1825.411	1775.660	1725.909	1676.158	1626.407	1576.656	1526.905	1477.154	1422.419
62.5	1843.132	1790.532	1737.932	1685.333	1632.733	1580.133	1527.533	1474.934	1422.334	1366.872
65.0	1892.817	1830.160	1767.504	1704.848	1642.191	1579.535	1516.879	1454.222	1391.566	1341.614
67.5	1979.116	1903.395	1827.675	1751.955	1676.235	1600.514	1524.794	1449.074	1373.354	1323.729
70.0	1965.994	1897.872	1829.751	1761.630	1693.508	1625.387	1557.266	1489.144	1421.023	1362.995
72.5	1880.854	1826.513	1772.172	1717.831	1663.490	1609.149	1554.808	1500.467	1446.126	1380.107
75.0	1813.722	1750.716	1687.709	1624.703	1561.696	1498.690	1435.683	1372.677	1309.670	1259.763
77.5	1781.716	1719.292	1656.868	1594.444	1532.020	1469.596	1407.172	1344.748	1282.324	1235.268

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**CANDELA TABULATION - (Cont.)**

<b>80.0</b>	1883.326	1808.629	1733.932	1659.235	1584.539	1509.842	1435.145	1360.448	1285.751	1229.541
<b>82.5</b>	1823.082	1754.619	1686.157	1617.694	1549.232	1480.770	1412.307	1343.845	1275.383	1212.730
<b>85.0</b>	1768.236	1701.532	1634.829	1568.125	1501.422	1434.718	1368.015	1301.311	1234.608	1172.531
<b>87.5</b>	1661.573	1597.393	1533.213	1469.033	1404.853	1340.673	1276.493	1212.313	1148.133	1092.094
<b>90.0</b>	1601.145	1538.793	1476.440	1414.087	1351.735	1289.382	1227.029	1164.677	1102.324	1045.117
<b>92.5</b>	1563.441	1497.167	1430.893	1364.619	1298.346	1232.072	1165.798	1099.524	1033.250	976.743
<b>95.0</b>	1475.966	1413.935	1351.905	1289.874	1227.843	1165.812	1103.782	1041.751	979.720	923.354
<b>97.5</b>	1344.019	1292.061	1240.102	1188.144	1136.186	1084.228	1032.269	980.311	928.353	872.767
<b>100.0</b>	1268.648	1219.017	1169.386	1119.755	1070.124	1020.493	970.862	921.231	871.600	817.711
<b>102.5</b>	1224.287	1170.890	1117.494	1064.097	1010.701	957.304	903.908	850.511	797.115	746.413
<b>105.0</b>	1136.307	1083.600	1030.894	978.187	925.480	872.773	820.067	767.360	714.653	669.285
<b>107.5</b>	1070.165	1021.716	973.267	924.818	876.369	827.921	779.472	731.023	682.574	636.069
<b>110.0</b>	975.416	931.637	887.859	844.081	800.302	756.524	712.746	668.967	625.189	581.474
<b>112.5</b>	875.082	836.576	798.070	759.564	721.058	682.552	644.045	605.539	567.033	526.737
<b>115.0</b>	793.743	758.002	722.262	686.521	650.780	615.039	579.299	543.558	507.817	471.720
<b>117.5</b>	722.873	688.610	654.347	620.084	585.821	551.558	517.295	483.032	448.770	417.131
<b>120.0</b>	635.085	605.446	575.807	546.168	516.529	486.890	457.251	427.612	397.973	370.044
<b>122.5</b>	549.419	524.466	499.513	474.560	449.606	424.653	399.700	374.747	349.794	325.533
<b>125.0</b>	465.339	445.107	424.874	404.642	384.410	364.178	343.945	323.713	303.481	283.113
<b>127.5</b>	395.623	379.196	362.770	346.343	329.917	313.490	297.064	280.637	264.211	247.041
<b>130.0</b>	335.366	322.269	309.172	296.075	282.979	269.882	256.785	243.688	230.591	215.862
<b>132.5</b>	286.259	275.974	265.688	255.403	245.117	234.831	224.546	214.260	203.975	190.818
<b>135.0</b>	243.879	235.981	228.082	220.184	212.286	204.388	196.489	188.591	180.693	168.822
<b>137.5</b>	212.120	205.746	199.371	192.997	186.622	180.248	173.873	167.499	161.124	150.156
<b>140.0</b>	183.363	178.475	173.587	168.699	163.811	158.923	154.035	149.147	144.259	133.949
<b>142.5</b>	158.739	154.590	150.440	146.290	142.140	137.991	133.841	129.691	125.542	115.992
<b>145.0</b>	134.108	130.558	127.007	123.456	119.906	116.355	112.804	109.254	105.703	97.243
<b>147.5</b>	116.488	112.708	108.928	105.147	101.367	97.587	93.807	90.026	86.246	78.943
<b>150.0</b>	98.853	94.737	90.620	86.504	82.388	78.272	74.155	70.039	65.923	60.178
<b>152.5</b>	79.441	75.324	71.206	67.089	62.972	58.854	54.737	50.619	46.502	42.478
<b>155.0</b>	59.138	55.322	51.506	47.690	43.875	40.059	36.243	32.427	28.611	26.242
<b>157.5</b>	39.089	36.077	33.065	30.053	27.041	24.030	21.018	18.006	14.994	13.870
<b>160.0</b>	20.401	18.444	16.486	14.529	12.572	10.615	8.657	6.700	4.743	4.548
<b>162.5</b>	9.041	8.097	7.153	6.209	5.265	4.321	3.377	2.433	1.489	1.547
<b>165.0</b>	1.496	1.483	1.469	1.455	1.442	1.428	1.414	1.401	1.387	1.427
<b>167.5</b>	1.344	1.377	1.411	1.444	1.478	1.511	1.545	1.578	1.612	1.660
<b>170.0</b>	1.597	1.653	1.710	1.767	1.823	1.880	1.937	1.993	2.050	2.061
<b>172.5</b>	1.891	1.937	1.982	2.027	2.073	2.118	2.163	2.209	2.254	2.285
<b>175.0</b>	2.088	2.168	2.247	2.326	2.406	2.485	2.564	2.644	2.723	2.740
<b>177.5</b>	2.400	2.460	2.519	2.579	2.638	2.698	2.757	2.817	2.876	2.887
<b>180.0</b>	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000

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

	<b><u>50.0</u></b>	<b><u>52.5</u></b>	<b><u>55.0</u></b>	<b><u>57.5</u></b>	<b><u>60.0</u></b>	<b><u>62.5</u></b>	<b><u>65.0</u></b>	<b><u>67.5</u></b>	<b><u>70.0</u></b>	<b><u>72.5</u></b>
<b>0.0</b>	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383
<b>2.5</b>	1276.589	1273.159	1269.728	1266.297	1262.867	1259.436	1256.006	1252.575	1248.694	1244.813
<b>5.0</b>	1294.397	1291.238	1288.080	1284.921	1281.763	1278.604	1275.446	1272.287	1265.710	1259.133
<b>7.5</b>	1368.456	1359.553	1350.650	1341.747	1332.844	1323.941	1315.038	1306.136	1296.112	1286.088
<b>10.0</b>	1443.138	1427.385	1411.632	1395.878	1380.125	1364.372	1348.618	1332.865	1318.461	1304.058
<b>12.5</b>	1464.289	1450.028	1435.768	1421.507	1407.246	1392.985	1378.725	1364.464	1344.534	1324.605
<b>15.0</b>	1454.312	1446.925	1439.538	1432.150	1424.763	1417.376	1409.989	1402.602	1379.117	1355.632
<b>17.5</b>	1493.722	1485.385	1477.048	1468.712	1460.375	1452.038	1443.701	1435.365	1403.757	1372.149
<b>20.0</b>	1552.453	1527.800	1503.148	1478.496	1453.844	1429.191	1404.539	1379.887	1351.385	1322.883
<b>22.5</b>	1530.558	1506.809	1483.059	1459.309	1435.560	1411.810	1388.061	1364.311	1333.412	1302.513
<b>25.0</b>	1488.055	1466.094	1444.132	1422.170	1400.208	1378.247	1356.285	1334.323	1302.258	1270.192

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : SWPM-WB-LED-PL2-50.IES**

**CANDELA TABULATION - (Cont.)**

27.5	1481.400	1461.580	1441.760	1421.941	1402.121	1382.301	1362.482	1342.662	1306.942	1271.221
30.0	1493.482	1471.520	1449.558	1427.597	1405.635	1383.673	1361.712	1339.750	1298.318	1256.885
32.5	1534.914	1497.153	1459.391	1421.629	1383.868	1346.106	1308.345	1270.583	1232.507	1194.431
35.0	1447.510	1417.899	1388.287	1358.675	1329.063	1299.452	1269.840	1240.228	1198.613	1156.998
37.5	1376.391	1348.681	1320.972	1293.263	1265.553	1237.844	1210.134	1182.425	1143.620	1104.815
40.0	1387.680	1360.078	1332.477	1304.876	1277.275	1249.673	1222.072	1194.471	1152.694	1110.917
42.5	1366.501	1333.426	1300.350	1267.275	1234.200	1201.125	1168.050	1134.975	1095.977	1056.979
45.0	1412.534	1370.672	1328.810	1286.949	1245.087	1203.225	1161.363	1119.501	1078.065	1036.629
47.5	1354.483	1314.526	1274.570	1234.614	1194.658	1154.701	1114.745	1074.789	1034.579	994.369
50.0	1305.358	1264.229	1223.099	1181.969	1140.839	1099.710	1058.580	1017.450	979.364	941.279
52.5	1311.182	1268.455	1225.728	1183.002	1140.275	1097.548	1054.822	1012.095	968.614	925.132
55.0	1316.757	1271.315	1225.873	1180.430	1134.988	1089.546	1044.104	998.662	953.051	907.440
57.5	1340.886	1293.994	1247.102	1200.209	1153.317	1106.425	1059.533	1012.641	962.894	913.148
60.0	1367.683	1312.948	1258.212	1203.477	1148.741	1094.006	1039.270	984.535	933.969	883.403
62.5	1311.409	1255.947	1200.484	1145.021	1089.559	1034.097	978.634	923.172	875.016	826.860
65.0	1291.663	1241.711	1191.759	1141.808	1091.856	1041.904	991.953	942.001	888.333	834.665
67.5	1274.104	1224.479	1174.855	1125.230	1075.605	1025.980	976.356	926.731	870.382	814.034
70.0	1304.967	1246.940	1188.912	1130.884	1072.856	1014.829	956.801	898.773	842.430	786.088
72.5	1314.088	1248.069	1182.050	1116.031	1050.012	983.993	917.974	851.955	795.940	739.925
75.0	1209.855	1159.948	1110.040	1060.133	1010.225	960.318	910.410	860.503	798.983	737.464
77.5	1188.213	1141.157	1094.102	1047.046	999.991	952.935	905.880	858.825	792.391	725.957
80.0	1173.331	1117.121	1060.911	1004.701	948.491	892.281	836.071	779.861	717.134	654.408
82.5	1150.078	1087.425	1024.773	962.120	899.468	836.816	774.163	711.511	652.181	592.851
85.0	1110.454	1048.376	986.299	924.222	862.145	800.067	737.990	675.913	617.200	558.486
87.5	1036.056	980.018	923.980	867.941	811.903	755.865	699.827	643.789	585.594	527.399
90.0	987.910	930.702	873.495	816.288	759.081	701.873	644.666	587.459	533.085	478.711
92.5	920.235	863.728	807.220	750.712	694.205	637.698	581.190	524.683	475.573	426.463
95.0	866.987	810.621	754.255	697.888	641.522	585.156	528.789	472.423	427.960	383.497
97.5	817.181	761.595	706.009	650.423	594.837	539.251	483.665	428.079	388.112	348.145
100.0	763.822	709.933	656.044	602.155	548.267	494.378	440.489	386.600	351.145	315.690
102.5	695.710	645.008	594.305	543.602	492.900	442.198	391.495	340.793	310.461	280.130
105.0	623.916	578.548	533.179	487.811	442.442	397.074	351.705	306.337	279.861	253.385
107.5	589.565	543.060	496.555	450.051	403.546	357.041	310.537	264.032	242.197	220.362
110.0	537.759	494.044	450.329	406.614	362.899	319.184	275.469	231.754	213.402	195.050
112.5	486.441	446.145	405.848	365.552	325.256	284.960	244.664	204.368	188.787	173.207
115.0	435.624	399.527	363.430	327.334	291.237	255.140	219.044	182.947	169.497	156.046
117.5	385.493	353.855	322.217	290.579	258.941	227.302	195.664	164.026	152.281	140.535
120.0	342.116	314.187	286.258	258.330	230.401	202.472	174.544	146.615	136.432	126.249
122.5	301.273	277.013	252.753	228.493	204.233	179.973	155.713	131.453	122.452	113.452
125.0	262.744	242.376	222.008	201.639	181.271	160.903	140.534	120.166	111.897	103.628
127.5	229.872	212.702	195.533	178.363	161.194	144.024	126.855	109.686	102.112	94.539
130.0	201.133	186.405	171.676	156.947	142.218	127.490	112.761	98.032	91.231	84.430
132.5	177.661	164.504	151.347	138.190	125.033	111.876	98.719	85.563	79.623	73.684
135.0	156.952	145.081	133.211	121.340	109.470	97.599	85.729	73.858	68.753	63.649
137.5	139.188	128.221	117.253	106.285	95.317	84.350	73.382	62.414	58.163	53.912
140.0	123.639	113.329	103.019	92.709	82.399	72.089	61.779	51.469	48.027	44.585
142.5	106.443	96.893	87.344	77.794	68.245	58.695	49.146	39.597	37.059	34.521
145.0	88.782	80.322	71.862	63.401	54.941	46.481	38.020	29.560	27.777	25.994
147.5	71.640	64.336	57.033	49.730	42.427	35.123	27.820	20.517	19.421	18.324
150.0	54.433	48.688	42.943	37.199	31.454	25.709	19.964	14.219	13.532	12.845
152.5	38.453	34.429	30.404	26.380	22.355	18.331	14.306	10.282	9.786	9.290
155.0	23.874	21.505	19.136	16.768	14.399	12.030	9.662	7.293	6.933	6.572
157.5	12.747	11.623	10.499	9.376	8.252	7.128	6.005	4.881	4.662	4.442
160.0	4.353	4.158	3.963	3.769	3.574	3.379	3.184	2.989	2.882	2.776
162.5	1.605	1.662	1.720	1.778	1.836	1.893	1.951	2.009	2.014	2.019
165.0	1.466	1.506	1.546	1.585	1.625	1.665	1.704	1.744	1.781	1.819

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : SWPM-WB-LED-PL2-50.IES**

**CANDELA TABULATION - (Cont.)**

<b>167.5</b>	1.709	1.758	1.806	1.855	1.904	1.953	2.001	2.050	2.118	2.186
<b>170.0</b>	2.073	2.084	2.095	2.107	2.118	2.129	2.141	2.152	2.222	2.293
<b>172.5</b>	2.316	2.348	2.379	2.410	2.441	2.472	2.503	2.535	2.575	2.615
<b>175.0</b>	2.757	2.774	2.791	2.808	2.825	2.842	2.859	2.876	2.884	2.892
<b>177.5</b>	2.899	2.910	2.921	2.933	2.944	2.955	2.967	2.978	2.979	2.980
<b>180.0</b>	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b>75.0</b>	<b>77.5</b>	<b>80.0</b>	<b>82.5</b>	<b>85.0</b>	<b>87.5</b>	<b>90.0</b>	<b>92.5</b>	<b>95.0</b>	<b>97.5</b>
<b>0.0</b>	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383
<b>2.5</b>	1240.932	1237.051	1233.170	1229.289	1225.408	1221.527	1217.646	1212.400	1207.154	1201.909
<b>5.0</b>	1252.557	1245.980	1239.403	1232.826	1226.250	1219.673	1213.096	1202.291	1191.486	1180.680
<b>7.5</b>	1276.064	1266.040	1256.017	1245.993	1235.969	1225.945	1215.922	1200.917	1185.913	1170.909
<b>10.0</b>	1289.654	1275.251	1260.847	1246.444	1232.040	1217.637	1203.233	1182.747	1162.261	1141.775
<b>12.5</b>	1304.675	1284.746	1264.816	1244.886	1224.957	1205.027	1185.098	1161.789	1138.481	1115.173
<b>15.0</b>	1332.147	1308.662	1285.178	1261.693	1238.208	1214.723	1191.238	1162.060	1132.883	1103.705
<b>17.5</b>	1340.542	1308.934	1277.327	1245.719	1214.112	1182.504	1150.897	1120.634	1090.372	1060.110
<b>20.0</b>	1294.380	1265.878	1237.376	1208.874	1180.371	1151.869	1123.367	1089.944	1056.521	1023.098
<b>22.5</b>	1271.614	1240.714	1209.815	1178.916	1148.017	1117.118	1086.219	1050.385	1014.551	978.717
<b>25.0</b>	1238.127	1206.062	1173.996	1141.931	1109.866	1077.800	1045.735	1008.886	972.037	935.187
<b>27.5</b>	1235.501	1199.780	1164.060	1128.340	1092.619	1056.899	1021.179	982.460	943.741	905.023
<b>30.0</b>	1215.453	1174.020	1132.588	1091.155	1049.723	1008.290	966.858	928.456	890.054	851.652
<b>32.5</b>	1156.355	1118.279	1080.203	1042.127	1004.051	965.975	927.900	888.785	849.670	810.555
<b>35.0</b>	1115.383	1073.768	1032.154	990.539	948.924	907.309	865.694	829.237	792.780	756.323
<b>37.5</b>	1066.011	1027.206	988.401	949.596	910.792	871.987	833.182	794.822	756.461	718.101
<b>40.0</b>	1069.140	1027.363	985.587	943.810	902.033	860.256	818.479	776.548	734.617	692.686
<b>42.5</b>	1017.981	978.983	939.985	900.987	861.989	822.991	783.993	741.152	698.311	655.471
<b>45.0</b>	995.194	953.758	912.322	870.886	829.451	788.015	746.579	704.078	661.577	619.076
<b>47.5</b>	954.159	913.949	873.739	833.529	793.319	753.109	712.899	669.745	626.591	583.437
<b>50.0</b>	903.193	865.107	827.022	788.936	750.850	712.765	674.679	631.887	589.094	546.302
<b>52.5</b>	881.651	838.169	794.688	751.206	707.725	664.243	620.762	580.283	539.805	499.327
<b>55.0</b>	861.829	816.218	770.607	724.996	679.385	633.774	588.163	548.002	507.841	467.680
<b>57.5</b>	863.401	813.655	763.908	714.162	664.415	614.669	564.922	524.976	485.030	445.084
<b>60.0</b>	832.837	782.271	731.705	681.139	630.573	580.007	529.441	491.379	453.317	415.255
<b>62.5</b>	778.704	730.548	682.392	634.236	586.080	537.924	489.769	454.180	418.592	383.003
<b>65.0</b>	780.997	727.329	673.662	619.994	566.326	512.658	458.990	424.617	390.244	355.871
<b>67.5</b>	757.685	701.336	644.987	588.639	532.290	475.941	419.593	387.610	355.627	323.645
<b>70.0</b>	729.745	673.403	617.060	560.718	504.375	448.033	391.690	361.129	330.567	300.006
<b>72.5</b>	683.910	627.895	571.880	515.865	459.850	403.835	347.820	320.737	293.655	266.572
<b>75.0</b>	675.944	614.424	552.905	491.385	429.865	368.346	306.826	283.054	259.283	235.511
<b>77.5</b>	659.524	593.090	526.656	460.223	393.789	327.355	260.922	241.166	221.411	201.656
<b>80.0</b>	591.681	528.955	466.228	403.502	340.775	278.049	215.322	199.791	184.260	168.728
<b>82.5</b>	533.521	474.191	414.861	355.531	296.201	236.871	177.541	165.544	153.547	141.550
<b>85.0</b>	499.773	441.059	382.346	323.632	264.919	206.205	147.492	138.348	129.204	120.061
<b>87.5</b>	469.204	411.009	352.814	294.619	236.424	178.229	120.034	113.540	107.047	100.553
<b>90.0</b>	424.337	369.963	315.589	261.215	206.841	152.467	98.093	93.797	89.500	85.204
<b>92.5</b>	377.354	328.244	279.135	230.025	180.916	131.806	82.697	79.765	76.833	73.901
<b>95.0</b>	339.034	294.571	250.109	205.646	161.183	116.720	72.257	70.064	67.871	65.678
<b>97.5</b>	308.178	268.211	228.244	188.277	148.310	108.343	68.376	66.147	63.918	61.689
<b>100.0</b>	280.235	244.780	209.324	173.869	138.414	102.959	67.504	64.877	62.250	59.623
<b>102.5</b>	249.798	219.467	189.136	158.804	128.473	98.141	67.810	64.684	61.557	58.431
<b>105.0</b>	226.909	200.433	173.958	147.482	121.006	94.530	68.054	64.435	60.817	57.198
<b>107.5</b>	198.528	176.693	154.858	133.023	111.188	89.353	67.519	63.515	59.512	55.508
<b>110.0</b>	176.698	158.346	139.994	121.642	103.290	84.938	66.586	62.308	58.029	53.751
<b>112.5</b>	157.626	142.046	126.465	110.885	95.304	79.724	64.143	59.763	55.382	51.002

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : SWPM-WB-LED-PL2-50.IES**

**CANDELA TABULATION - (Cont.)**

115.0	142.596	129.146	115.695	102.245	88.795	75.344	61.894	57.465	53.036	48.607
117.5	128.790	117.045	105.300	93.554	81.809	70.064	58.319	54.032	49.746	45.460
120.0	116.066	105.883	95.700	85.517	75.334	65.151	54.968	50.820	46.672	42.524
122.5	104.451	95.451	86.451	77.450	68.450	59.449	50.449	46.622	42.796	38.969
125.0	95.360	87.091	78.822	70.553	62.285	54.016	45.747	42.273	38.800	35.326
127.5	86.965	79.392	71.818	64.245	56.671	49.098	41.524	38.321	35.117	31.914
130.0	77.629	70.828	64.026	57.225	50.424	43.623	36.822	34.009	31.196	28.383
132.5	67.745	61.806	55.866	49.927	43.988	38.049	32.110	29.648	27.186	24.725
135.0	58.544	53.440	48.335	43.231	38.126	33.022	27.917	25.788	23.658	21.529
137.5	49.661	45.410	41.158	36.907	32.656	28.405	24.154	22.326	20.498	18.670
140.0	41.143	37.701	34.260	30.818	27.376	23.934	20.492	18.976	17.459	15.943
142.5	31.984	29.446	26.909	24.371	21.834	19.296	16.759	15.580	14.402	13.224
145.0	24.212	22.429	20.646	18.863	17.081	15.298	13.515	12.621	11.727	10.832
147.5	17.228	16.131	15.035	13.938	12.842	11.745	10.649	9.980	9.312	8.644
150.0	12.159	11.472	10.785	10.098	9.412	8.725	8.038	7.566	7.095	6.623
152.5	8.794	8.298	7.803	7.307	6.811	6.315	5.819	5.539	5.258	4.978
155.0	6.212	5.851	5.491	5.130	4.770	4.409	4.049	3.909	3.768	3.628
157.5	4.223	4.004	3.784	3.565	3.346	3.126	2.907	2.832	2.757	2.683
160.0	2.669	2.563	2.456	2.350	2.243	2.137	2.030	2.024	2.019	2.013
162.5	2.024	2.029	2.035	2.040	2.045	2.050	2.055	2.038	2.021	2.004
165.0	1.856	1.894	1.931	1.969	2.006	2.044	2.081	2.093	2.106	2.118
167.5	2.254	2.322	2.390	2.458	2.526	2.594	2.663	2.683	2.704	2.725
170.0	2.363	2.433	2.504	2.574	2.644	2.715	2.785	2.795	2.805	2.815
172.5	2.655	2.696	2.736	2.776	2.816	2.857	2.897	2.896	2.896	2.895
175.0	2.900	2.908	2.916	2.924	2.932	2.940	2.948	2.945	2.941	2.938
177.5	2.982	2.983	2.984	2.985	2.987	2.988	2.989	2.983	2.978	2.972
180.0	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000

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

	<u>100.0</u>	<u>102.5</u>	<u>105.0</u>	<u>107.5</u>	<u>110.0</u>	<u>112.5</u>	<u>115.0</u>	<u>117.5</u>	<u>120.0</u>	<u>122.5</u>
0.0	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383
2.5	1196.663	1191.417	1186.172	1180.926	1175.681	1170.435	1167.015	1163.594	1160.174	1156.753
5.0	1169.875	1159.070	1148.265	1137.459	1126.654	1115.849	1105.458	1095.066	1084.675	1074.283
7.5	1155.905	1140.901	1125.897	1110.892	1095.888	1080.884	1065.088	1049.292	1033.497	1017.701
10.0	1121.289	1100.802	1080.316	1059.830	1039.344	1018.858	1003.347	987.836	972.325	956.814
12.5	1091.865	1068.557	1045.249	1021.940	998.632	975.324	956.471	937.618	918.765	899.912
15.0	1074.527	1045.350	1016.172	986.994	957.817	928.639	907.791	886.944	866.096	845.248
17.5	1029.847	999.585	969.323	939.061	908.798	878.536	857.793	837.050	816.308	795.565
20.0	989.675	956.251	922.828	889.405	855.982	822.559	804.013	785.467	766.921	748.375
22.5	942.884	907.050	871.216	835.382	799.549	763.715	746.651	729.587	712.523	695.459
25.0	898.338	861.489	824.640	787.790	750.941	714.092	697.294	680.495	663.697	646.899
27.5	866.304	827.585	788.867	750.148	711.429	672.711	654.757	636.803	618.849	600.896
30.0	813.250	774.849	736.447	698.045	659.643	621.241	603.006	584.770	566.535	548.300
32.5	771.440	732.326	693.211	654.096	614.981	575.867	557.051	538.235	519.420	500.604
35.0	719.866	683.409	646.952	610.495	574.038	537.581	517.141	496.702	476.262	455.822
37.5	679.740	641.380	603.019	564.659	526.298	487.938	467.823	447.708	427.593	407.478
40.0	650.755	608.823	566.892	524.961	483.030	441.099	421.003	400.907	380.810	360.714
42.5	612.630	569.790	526.949	484.109	441.268	398.428	378.799	359.170	339.541	319.912
45.0	576.575	534.073	491.572	449.071	406.570	364.069	344.504	324.939	305.375	285.810
47.5	540.283	497.129	453.975	410.821	367.667	324.513	306.253	287.994	269.734	251.474
50.0	503.509	460.717	417.924	375.132	332.339	289.547	272.711	255.876	239.040	222.204
52.5	458.849	418.371	377.893	337.415	296.937	256.459	241.738	227.018	212.298	197.577
55.0	427.519	387.359	347.198	307.037	266.876	226.715	214.132	201.548	188.965	176.382
57.5	405.138	365.192	325.246	285.300	245.354	205.407	193.772	182.137	170.501	158.866
60.0	377.193	339.132	301.070	263.008	224.946	186.884	176.279	165.675	155.070	144.466



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : SWPM-WB-LED-PL2-50.IES**

**CANDELA TABULATION - (Cont.)**

62.5	347.415	311.827	276.238	240.650	205.061	169.473	159.679	149.884	140.090	130.296
65.0	321.498	287.126	252.753	218.380	184.007	149.634	140.804	131.974	123.145	114.315
67.5	291.662	259.679	227.697	195.714	163.731	131.749	123.694	115.639	107.585	99.530
70.0	269.444	238.883	208.321	177.760	147.198	116.637	109.033	101.430	93.826	86.223
72.5	239.489	212.406	185.324	158.241	131.158	104.076	96.806	89.537	82.268	74.999
75.0	211.739	187.968	164.196	140.424	116.653	92.881	85.770	78.660	71.549	64.439
77.5	181.901	162.146	142.391	122.635	102.880	83.125	76.797	70.469	64.141	57.813
80.0	153.197	137.666	122.135	106.603	91.072	75.541	69.800	64.058	58.317	52.575
82.5	129.553	117.557	105.560	93.563	81.566	69.569	64.247	58.925	53.603	48.280
85.0	110.917	101.773	92.629	83.486	74.342	65.198	60.168	55.139	50.109	45.079
87.5	94.060	87.566	81.073	74.579	68.086	61.593	56.759	51.925	47.092	42.258
90.0	80.907	76.611	72.314	68.018	63.721	59.425	54.590	49.755	44.921	40.086
92.5	70.969	68.037	65.105	62.173	59.241	56.309	51.611	46.913	42.214	37.516
95.0	63.485	61.292	59.099	56.906	54.713	52.520	48.040	43.560	39.080	34.600
97.5	59.461	57.232	55.003	52.774	50.546	48.317	44.171	40.026	35.880	31.734
100.0	56.996	54.368	51.741	49.114	46.487	43.860	40.076	36.292	32.507	28.723
102.5	55.304	52.178	49.052	45.925	42.799	39.673	36.266	32.859	29.452	26.045
105.0	53.579	49.961	46.342	42.723	39.105	35.486	32.419	29.352	26.286	23.219
107.5	51.505	47.501	43.498	39.494	35.491	31.488	28.774	26.061	23.348	20.635
110.0	49.473	45.194	40.916	36.638	32.359	28.081	25.707	23.332	20.958	18.584
112.5	46.622	42.241	37.861	33.481	29.100	24.720	22.656	20.592	18.529	16.465
115.0	44.178	39.748	35.319	30.890	26.461	22.032	20.211	18.390	16.568	14.747
117.5	41.174	36.887	32.601	28.315	24.029	19.743	18.111	16.479	14.847	13.215
120.0	38.376	34.228	30.080	25.932	21.784	17.636	16.196	14.755	13.315	11.874
122.5	35.142	31.316	27.489	23.662	19.836	16.009	14.688	13.366	12.045	10.723
125.0	31.852	28.379	24.905	21.431	17.958	14.484	13.287	12.090	10.894	9.697
127.5	28.710	25.507	22.304	19.100	15.897	12.694	11.665	10.636	9.607	8.578
130.0	25.570	22.758	19.945	17.132	14.319	11.506	10.589	9.672	8.755	7.838
132.5	22.263	19.802	17.340	14.879	12.417	9.956	9.197	8.438	7.679	6.920
135.0	19.399	17.270	15.140	13.011	10.881	8.752	8.107	7.462	6.817	6.172
137.5	16.842	15.013	13.185	11.357	9.529	7.701	7.173	6.645	6.117	5.589
140.0	14.426	12.910	11.393	9.877	8.360	6.844	6.411	5.978	5.545	5.112
142.5	12.046	10.868	9.690	8.512	7.334	6.156	5.799	5.443	5.086	4.730
145.0	9.938	9.044	8.150	7.255	6.361	5.467	5.179	4.891	4.603	4.315
147.5	7.976	7.308	6.640	5.972	5.304	4.636	4.431	4.226	4.022	3.817
150.0	6.152	5.680	5.209	4.737	4.266	3.794	3.655	3.515	3.376	3.237
152.5	4.697	4.417	4.136	3.856	3.575	3.295	3.194	3.092	2.991	2.889
155.0	3.487	3.347	3.206	3.066	2.925	2.785	2.738	2.692	2.645	2.599
157.5	2.608	2.533	2.458	2.384	2.309	2.234	2.246	2.259	2.271	2.284
160.0	2.007	2.002	1.996	1.990	1.985	1.979	2.018	2.056	2.095	2.133
162.5	1.987	1.970	1.953	1.936	1.919	1.903	1.947	1.992	2.037	2.081
165.0	2.131	2.143	2.156	2.168	2.181	2.193	2.228	2.263	2.298	2.333
167.5	2.746	2.767	2.788	2.809	2.830	2.851	2.921	2.992	3.062	3.132
170.0	2.825	2.836	2.846	2.856	2.866	2.876	2.953	3.030	3.107	3.184
172.5	2.895	2.894	2.894	2.893	2.893	2.892	2.975	3.057	3.140	3.223
175.0	2.934	2.931	2.927	2.924	2.920	2.917	3.004	3.092	3.179	3.266
177.5	2.966	2.961	2.955	2.949	2.944	2.938	3.024	3.110	3.196	3.282
180.0	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000

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

	<u>125.0</u>	<u>127.5</u>	<u>130.0</u>	<u>132.5</u>	<u>135.0</u>	<u>137.5</u>	<u>140.0</u>	<u>142.5</u>	<u>145.0</u>	<u>147.5</u>
0.0	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383
2.5	1153.333	1149.912	1146.492	1143.071	1139.651	1135.621	1131.592	1127.562	1123.533	1119.503
5.0	1063.892	1053.500	1043.109	1032.717	1022.326	1017.625	1012.924	1008.223	1003.522	998.820
7.5	1001.905	986.109	970.313	954.517	938.722	931.527	924.332	917.137	909.942	902.747

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : SWPM-WB-LED-PL2-50.IES**

**CANDELA TABULATION - (Cont.)**

10.0	941.304	925.793	910.282	894.771	879.260	868.744	858.228	847.712	837.196	826.679
12.5	881.059	862.206	843.353	824.500	805.647	795.793	785.939	776.086	766.232	756.378
15.0	824.401	803.553	782.705	761.858	741.010	733.196	725.381	717.567	709.753	701.938
17.5	774.822	754.079	733.337	712.594	691.851	683.644	675.437	667.230	659.023	650.815
20.0	729.830	711.284	692.738	674.192	655.646	646.006	636.366	626.726	617.086	607.445
22.5	678.395	661.331	644.267	627.203	610.139	599.407	588.676	577.944	567.213	556.481
25.0	630.100	613.302	596.504	579.705	562.907	550.343	537.779	525.215	512.651	500.086
27.5	582.942	564.988	547.034	529.081	511.127	497.702	484.276	470.851	457.425	444.000
30.0	530.064	511.829	493.594	475.358	457.123	442.532	427.942	413.351	398.761	384.170
32.5	481.789	462.973	444.158	425.342	406.527	390.585	374.644	358.702	342.761	326.819
35.0	435.383	414.943	394.503	374.064	353.624	337.951	322.278	306.605	290.932	275.260
37.5	387.363	367.248	347.133	327.018	306.903	292.087	277.272	262.456	247.641	232.825
40.0	340.618	320.522	300.425	280.329	260.233	247.191	234.148	221.106	208.063	195.021
42.5	300.284	280.655	261.026	241.397	221.769	210.356	198.944	187.532	176.120	164.708
45.0	266.245	246.680	227.116	207.551	187.986	178.355	168.724	159.093	149.462	139.830
47.5	233.214	214.955	196.695	178.435	160.176	151.689	143.202	134.715	126.228	117.741
50.0	205.369	188.533	171.697	154.862	138.026	130.396	122.767	115.137	107.508	99.878
52.5	182.857	168.137	153.417	138.696	123.976	116.903	109.830	102.757	95.683	88.610
55.0	163.798	151.215	138.632	126.048	113.465	106.583	99.702	92.820	85.938	79.057
57.5	147.231	135.595	123.960	112.324	100.689	94.431	88.174	81.916	75.658	69.401
60.0	133.861	123.257	112.652	102.048	91.443	85.389	79.335	73.280	67.226	61.172
62.5	120.502	110.707	100.913	91.119	81.325	75.438	69.552	63.665	57.779	51.892
65.0	105.485	96.655	87.826	78.996	70.166	64.599	59.032	53.465	47.898	42.331
67.5	91.475	83.421	75.366	67.312	59.257	53.977	48.698	43.418	38.138	32.859
70.0	78.619	71.016	63.412	55.809	48.205	43.529	38.853	34.177	29.501	24.824
72.5	67.730	60.461	53.191	45.922	38.653	34.799	30.944	27.090	23.235	19.381
75.0	57.328	50.218	43.107	35.997	28.886	25.978	23.070	20.162	17.254	14.345
77.5	51.485	45.157	38.829	32.501	26.173	23.575	20.977	18.379	15.780	13.182
80.0	46.834	41.092	35.351	29.609	23.868	21.551	19.235	16.918	14.602	12.285
82.5	42.958	37.636	32.314	26.992	21.670	19.623	17.576	15.529	13.482	11.436
85.0	40.050	35.020	29.990	24.961	19.931	18.126	16.320	14.515	12.709	10.904
87.5	37.424	32.591	27.757	22.923	18.090	16.496	14.903	13.309	11.716	10.122
90.0	35.251	30.416	25.582	20.747	15.912	14.563	13.215	11.866	10.517	9.169
92.5	32.818	28.120	23.421	18.723	14.025	12.889	11.753	10.617	9.480	8.344
95.0	30.119	25.639	21.159	16.679	12.199	11.269	10.338	9.408	8.477	7.547
97.5	27.588	23.443	19.297	15.151	11.006	10.203	9.401	8.598	7.796	6.994
100.0	24.939	21.155	17.370	13.586	9.802	9.129	8.456	7.782	7.109	6.436
102.5	22.639	19.232	15.825	12.418	9.012	8.422	7.833	7.244	6.654	6.065
105.0	20.152	17.085	14.019	10.952	7.885	7.418	6.951	6.484	6.017	5.550
107.5	17.922	15.209	12.495	9.782	7.069	6.687	6.305	5.923	5.541	5.159
110.0	16.209	13.835	11.461	9.086	6.712	6.347	5.982	5.617	5.252	4.887
112.5	14.401	12.337	10.273	8.209	6.146	5.842	5.538	5.234	4.931	4.627
115.0	12.926	11.105	9.283	7.462	5.641	5.392	5.142	4.893	4.644	4.394
117.5	11.583	9.951	8.319	6.687	5.055	4.867	4.680	4.493	4.306	4.119
120.0	10.434	8.993	7.553	6.112	4.672	4.526	4.380	4.233	4.087	3.941
122.5	9.402	8.080	6.759	5.437	4.116	4.029	3.941	3.854	3.767	3.679
125.0	8.500	7.303	6.107	4.910	3.713	3.669	3.625	3.580	3.536	3.492
127.5	7.549	6.520	5.491	4.462	3.433	3.417	3.401	3.385	3.369	3.353
130.0	6.922	6.005	5.088	4.171	3.254	3.255	3.256	3.257	3.258	3.260
132.5	6.162	5.403	4.644	3.885	3.127	3.140	3.154	3.167	3.181	3.195
135.0	5.528	4.883	4.238	3.593	2.948	2.979	3.009	3.040	3.070	3.101
137.5	5.060	4.532	4.004	3.476	2.948	2.977	3.006	3.035	3.064	3.092
140.0	4.680	4.247	3.814	3.381	2.948	2.974	3.000	3.026	3.052	3.078
142.5	4.374	4.017	3.661	3.304	2.948	2.967	2.986	3.006	3.025	3.044
145.0	4.028	3.740	3.452	3.164	2.876	2.892	2.908	2.924	2.940	2.955
147.5	3.613	3.408	3.204	2.999	2.795	2.808	2.821	2.834	2.847	2.860

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : SWPM-WB-LED-PL2-50.IES**

**CANDELA TABULATION - (Cont.)**

<b>150.0</b>	3.097	2.958	2.819	2.679	2.540	2.524	2.508	2.492	2.476	2.461
<b>152.5</b>	2.788	2.686	2.585	2.483	2.382	2.376	2.369	2.363	2.357	2.351
<b>155.0</b>	2.552	2.506	2.459	2.413	2.366	2.366	2.366	2.366	2.366	2.366
<b>157.5</b>	2.296	2.309	2.321	2.334	2.346	2.353	2.360	2.366	2.373	2.380
<b>160.0</b>	2.172	2.210	2.249	2.287	2.326	2.340	2.353	2.367	2.380	2.394
<b>162.5</b>	2.126	2.171	2.216	2.260	2.305	2.325	2.346	2.366	2.387	2.407
<b>165.0</b>	2.369	2.404	2.439	2.474	2.509	2.511	2.514	2.516	2.518	2.521
<b>167.5</b>	3.202	3.273	3.343	3.413	3.484	3.500	3.517	3.534	3.551	3.568
<b>170.0</b>	3.262	3.339	3.416	3.493	3.570	3.581	3.593	3.604	3.615	3.627
<b>172.5</b>	3.306	3.388	3.471	3.554	3.637	3.643	3.650	3.657	3.664	3.670
<b>175.0</b>	3.354	3.441	3.528	3.616	3.703	3.705	3.707	3.710	3.712	3.714
<b>177.5</b>	3.369	3.455	3.541	3.627	3.713	3.707	3.700	3.694	3.688	3.682
<b>180.0</b>	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b><u>150.0</u></b>	<b><u>152.5</u></b>	<b><u>155.0</u></b>	<b><u>157.5</u></b>	<b><u>160.0</u></b>	<b><u>162.5</u></b>	<b><u>165.0</u></b>	<b><u>167.5</u></b>	<b><u>170.0</u></b>	<b><u>172.5</u></b>
<b>0.0</b>	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383
<b>2.5</b>	1115.474	1111.444	1107.415	1103.385	1101.221	1099.057	1096.893	1094.729	1092.564	1090.400
<b>5.0</b>	994.119	989.418	984.717	980.016	976.453	972.890	969.326	965.763	962.200	958.637
<b>7.5</b>	895.552	888.357	881.162	873.967	870.164	866.361	862.558	858.755	854.952	851.149
<b>10.0</b>	816.163	805.647	795.131	784.615	780.278	775.940	771.603	767.266	762.928	758.591
<b>12.5</b>	746.524	736.671	726.817	716.963	713.247	709.531	705.814	702.098	698.382	694.666
<b>15.0</b>	694.124	686.310	678.495	670.681	665.727	660.773	655.819	650.865	645.912	640.958
<b>17.5</b>	642.608	634.401	626.194	617.987	613.648	609.308	604.969	600.629	596.290	591.950
<b>20.0</b>	597.805	588.165	578.525	568.885	564.289	559.694	555.098	550.502	545.907	541.311
<b>22.5</b>	545.750	535.018	524.287	513.555	508.226	502.897	497.568	492.239	486.910	481.581
<b>25.0</b>	487.522	474.958	462.394	449.830	444.648	439.467	434.285	429.104	423.922	418.741
<b>27.5</b>	430.574	417.149	403.723	390.298	383.781	377.265	370.749	364.233	357.717	351.201
<b>30.0</b>	369.580	354.989	340.399	325.808	318.597	311.385	304.174	296.963	289.751	282.540
<b>32.5</b>	310.878	294.936	278.995	263.053	256.948	250.844	244.739	238.634	232.530	226.425
<b>35.0</b>	259.587	243.914	228.241	212.568	207.593	202.617	197.642	192.667	187.691	182.716
<b>37.5</b>	218.010	203.194	188.379	173.563	169.458	165.352	161.247	157.141	153.036	148.930
<b>40.0</b>	181.978	168.936	155.893	142.851	139.304	135.756	132.209	128.662	125.114	121.567
<b>42.5</b>	153.296	141.884	130.472	119.060	115.891	112.722	109.553	106.384	103.216	100.047
<b>45.0</b>	130.199	120.568	110.937	101.306	98.140	94.973	91.807	88.640	85.474	82.307
<b>47.5</b>	109.254	100.767	92.280	83.793	81.185	78.576	75.968	73.359	70.751	68.143
<b>50.0</b>	92.249	84.619	76.990	69.360	67.191	65.022	62.852	60.683	58.514	56.345
<b>52.5</b>	81.537	74.464	67.391	60.318	58.460	56.603	54.745	52.888	51.030	49.173
<b>55.0</b>	72.175	65.293	58.412	51.530	49.940	48.350	46.760	45.170	43.580	41.990
<b>57.5</b>	63.143	56.885	50.628	44.370	42.952	41.534	40.116	38.699	37.281	35.863
<b>60.0</b>	55.118	49.063	43.009	36.955	35.664	34.373	33.082	31.791	30.501	29.210
<b>62.5</b>	46.006	40.119	34.233	28.346	27.210	26.075	24.939	23.804	22.668	21.532
<b>65.0</b>	36.764	31.197	25.630	20.063	19.034	18.005	16.976	15.947	14.918	13.889
<b>67.5</b>	27.579	22.299	17.020	11.740	11.010	10.279	9.549	8.818	8.088	7.358
<b>70.0</b>	20.148	15.472	10.796	6.120	5.641	5.161	4.682	4.202	3.723	3.243
<b>72.5</b>	15.526	11.672	7.817	3.963	3.765	3.568	3.371	3.174	2.976	2.779
<b>75.0</b>	11.437	8.529	5.621	2.713	2.704	2.695	2.686	2.677	2.668	2.659
<b>77.5</b>	10.584	7.986	5.388	2.790	2.812	2.834	2.856	2.878	2.900	2.923
<b>80.0</b>	9.969	7.652	5.336	3.019	3.038	3.058	3.077	3.096	3.116	3.135
<b>82.5</b>	9.389	7.342	5.295	3.249	3.289	3.329	3.369	3.410	3.450	3.490
<b>85.0</b>	9.098	7.293	5.487	3.682	3.731	3.780	3.828	3.877	3.926	3.975
<b>87.5</b>	8.529	6.935	5.342	3.749	3.833	3.917	4.002	4.086	4.171	4.255
<b>90.0</b>	7.820	6.471	5.123	3.774	3.875	3.976	4.077	4.178	4.278	4.379
<b>92.5</b>	7.208	6.072	4.936	3.800	3.936	4.072	4.208	4.344	4.480	4.616
<b>95.0</b>	6.616	5.686	4.755	3.825	3.963	4.101	4.240	4.378	4.516	4.654

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : SWPM-WB-LED-PL2-50.IES**

**CANDELA TABULATION - (Cont.)**

97.5	6.191	5.389	4.586	3.784	3.930	4.075	4.221	4.367	4.512	4.658
100.0	5.763	5.089	4.416	3.743	3.896	4.049	4.202	4.355	4.508	4.661
102.5	5.476	4.887	4.297	3.708	3.866	4.023	4.181	4.338	4.496	4.653
105.0	5.083	4.616	4.149	3.682	3.834	3.986	4.138	4.290	4.441	4.593
107.5	4.777	4.395	4.013	3.631	3.763	3.895	4.027	4.159	4.291	4.423
110.0	4.522	4.157	3.792	3.427	3.566	3.706	3.845	3.985	4.124	4.264
112.5	4.323	4.019	3.716	3.412	3.536	3.660	3.784	3.908	4.033	4.157
115.0	4.145	3.896	3.646	3.397	3.517	3.637	3.757	3.877	3.998	4.118
117.5	3.932	3.745	3.558	3.371	3.483	3.594	3.706	3.818	3.929	4.041
120.0	3.795	3.648	3.502	3.356	3.430	3.503	3.577	3.651	3.724	3.798
122.5	3.592	3.505	3.417	3.330	3.395	3.459	3.524	3.589	3.653	3.718
125.0	3.448	3.403	3.359	3.315	3.378	3.442	3.505	3.569	3.632	3.696
127.5	3.337	3.321	3.305	3.290	3.354	3.418	3.482	3.546	3.610	3.674
130.0	3.261	3.262	3.263	3.264	3.329	3.393	3.458	3.522	3.587	3.651
132.5	3.208	3.222	3.235	3.249	3.312	3.376	3.439	3.503	3.566	3.630
135.0	3.131	3.162	3.192	3.223	3.288	3.352	3.417	3.482	3.546	3.611
137.5	3.121	3.150	3.179	3.208	3.271	3.335	3.398	3.462	3.525	3.589
140.0	3.104	3.130	3.156	3.182	3.246	3.309	3.373	3.436	3.500	3.563
142.5	3.063	3.083	3.102	3.121	3.187	3.253	3.318	3.384	3.450	3.516
145.0	2.971	2.987	3.003	3.019	3.092	3.164	3.237	3.309	3.382	3.454
147.5	2.873	2.886	2.899	2.912	2.977	3.042	3.108	3.173	3.238	3.303
150.0	2.445	2.429	2.413	2.397	2.456	2.515	2.574	2.633	2.691	2.750
152.5	2.344	2.338	2.332	2.326	2.371	2.416	2.462	2.507	2.552	2.598
155.0	2.366	2.366	2.366	2.366	2.384	2.402	2.421	2.439	2.457	2.475
157.5	2.387	2.393	2.400	2.407	2.409	2.412	2.414	2.416	2.418	2.421
160.0	2.407	2.421	2.434	2.448	2.441	2.434	2.428	2.421	2.414	2.407
162.5	2.428	2.448	2.469	2.489	2.473	2.456	2.440	2.423	2.407	2.390
165.0	2.523	2.525	2.528	2.530	2.507	2.485	2.462	2.439	2.417	2.394
167.5	3.585	3.602	3.619	3.636	3.616	3.596	3.577	3.557	3.537	3.517
170.0	3.638	3.649	3.661	3.672	3.677	3.681	3.686	3.690	3.695	3.699
172.5	3.677	3.684	3.691	3.698	3.684	3.670	3.657	3.643	3.630	3.616
175.0	3.716	3.719	3.721	3.723	3.692	3.662	3.631	3.601	3.570	3.540
177.5	3.675	3.669	3.663	3.657	3.596	3.535	3.475	3.414	3.353	3.293
180.0	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000

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

	<u>175.0</u>	<u>177.5</u>	<u>180.0</u>	<u>182.5</u>	<u>185.0</u>	<u>187.5</u>	<u>190.0</u>	<u>192.5</u>	<u>195.0</u>	<u>197.5</u>
0.0	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383
2.5	1088.236	1086.072	1083.908	1085.137	1086.366	1087.595	1088.824	1090.054	1091.283	1092.512
5.0	955.073	951.510	947.947	949.497	951.048	952.598	954.149	955.699	957.250	958.800
7.5	847.346	843.543	839.741	842.582	845.424	848.266	851.108	853.950	856.792	859.633
10.0	754.254	749.916	745.579	751.034	756.489	761.943	767.398	772.853	778.308	783.762
12.5	690.949	687.233	683.517	689.442	695.367	701.292	707.217	713.143	719.068	724.993
15.0	636.004	631.050	626.096	632.796	639.497	646.197	652.897	659.598	666.298	672.998
17.5	587.611	583.271	578.932	585.256	591.581	597.905	604.230	610.554	616.879	623.203
20.0	536.715	532.120	527.524	533.143	538.762	544.381	550.000	555.619	561.238	566.857
22.5	476.252	470.923	465.594	470.520	475.446	480.372	485.298	490.224	495.150	500.076
25.0	413.559	408.378	403.196	407.592	411.988	416.385	420.781	425.177	429.573	433.970
27.5	344.685	338.169	331.653	336.529	341.405	346.282	351.158	356.034	360.910	365.786
30.0	275.329	268.117	260.906	265.912	270.918	275.924	280.930	285.935	290.941	295.947
32.5	220.320	214.216	208.111	212.223	216.334	220.446	224.558	228.669	232.781	236.893
35.0	177.741	172.765	167.790	170.771	173.751	176.732	179.713	182.693	185.674	188.655
37.5	144.825	140.719	136.614	138.850	141.087	143.324	145.560	147.797	150.034	152.270
40.0	118.020	114.472	110.925	113.042	115.159	117.276	119.393	121.511	123.628	125.745
42.5	96.878	93.709	90.541	92.615	94.689	96.763	98.837	100.911	102.985	105.059

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : SWPM-WB-LED-PL2-50.IES**

**CANDELA TABULATION - (Cont.)**

45.0	79.141	75.974	72.808	74.740	76.673	78.605	80.537	82.470	84.402	86.334
47.5	65.534	62.926	60.318	61.918	63.518	65.118	66.719	68.319	69.919	71.519
50.0	54.175	52.006	49.837	51.197	52.557	53.917	55.277	56.637	57.997	59.357
52.5	47.315	45.458	43.600	44.668	45.736	46.804	47.872	48.941	50.009	51.077
55.0	40.400	38.810	37.220	38.201	39.183	40.164	41.146	42.127	43.109	44.090
57.5	34.445	33.027	31.610	32.461	33.313	34.165	35.016	35.868	36.720	37.572
60.0	27.919	26.628	25.337	26.085	26.833	27.581	28.329	29.077	29.825	30.573
62.5	20.397	19.261	18.126	18.782	19.439	20.096	20.753	21.409	22.066	22.723
65.0	12.860	11.831	10.802	11.387	11.972	12.556	13.141	13.726	14.311	14.895
67.5	6.627	5.897	5.167	5.509	5.851	6.193	6.536	6.878	7.220	7.562
70.0	2.764	2.284	1.805	1.811	1.816	1.822	1.828	1.833	1.839	1.845
72.5	2.582	2.385	2.188	2.179	2.171	2.162	2.154	2.145	2.137	2.128
75.0	2.650	2.641	2.632	2.597	2.562	2.526	2.491	2.456	2.421	2.385
77.5	2.945	2.967	2.989	2.957	2.925	2.894	2.862	2.830	2.798	2.767
80.0	3.154	3.174	3.193	3.159	3.125	3.091	3.057	3.023	2.989	2.955
82.5	3.530	3.571	3.611	3.587	3.563	3.540	3.516	3.492	3.468	3.445
85.0	4.023	4.072	4.121	4.069	4.017	3.965	3.913	3.860	3.808	3.756
87.5	4.340	4.424	4.509	4.415	4.322	4.228	4.135	4.041	3.948	3.854
90.0	4.480	4.581	4.682	4.571	4.460	4.349	4.238	4.126	4.015	3.904
92.5	4.752	4.888	5.024	4.877	4.730	4.583	4.437	4.290	4.143	3.996
95.0	4.793	4.931	5.069	4.919	4.770	4.620	4.471	4.321	4.172	4.022
97.5	4.804	4.949	5.095	4.944	4.793	4.643	4.492	4.341	4.190	4.040
100.0	4.814	4.967	5.120	4.968	4.816	4.665	4.513	4.361	4.209	4.058
102.5	4.811	4.968	5.126	4.975	4.824	4.673	4.523	4.372	4.221	4.070
105.0	4.745	4.897	5.049	4.908	4.768	4.627	4.487	4.346	4.206	4.065
107.5	4.555	4.687	4.820	4.707	4.594	4.481	4.369	4.256	4.143	4.030
110.0	4.403	4.543	4.682	4.590	4.498	4.407	4.315	4.223	4.131	4.040
112.5	4.281	4.405	4.529	4.445	4.361	4.277	4.193	4.110	4.026	3.942
115.0	4.238	4.358	4.478	4.398	4.317	4.237	4.156	4.076	3.995	3.915
117.5	4.153	4.264	4.376	4.301	4.226	4.152	4.077	4.002	3.927	3.852
120.0	3.872	3.945	4.019	3.978	3.937	3.897	3.856	3.815	3.774	3.734
122.5	3.783	3.847	3.912	3.876	3.841	3.805	3.769	3.733	3.698	3.662
125.0	3.759	3.823	3.886	3.847	3.809	3.770	3.732	3.693	3.655	3.616
127.5	3.738	3.802	3.866	3.828	3.790	3.752	3.714	3.676	3.638	3.600
130.0	3.716	3.780	3.845	3.808	3.770	3.733	3.696	3.658	3.621	3.584
132.5	3.693	3.757	3.820	3.784	3.749	3.713	3.677	3.642	3.606	3.570
135.0	3.676	3.740	3.805	3.770	3.735	3.699	3.664	3.629	3.594	3.558
137.5	3.652	3.716	3.779	3.745	3.711	3.677	3.643	3.609	3.575	3.541
140.0	3.627	3.690	3.754	3.721	3.688	3.655	3.622	3.590	3.557	3.524
142.5	3.581	3.647	3.713	3.684	3.654	3.625	3.595	3.566	3.536	3.507
145.0	3.527	3.599	3.672	3.629	3.586	3.543	3.500	3.456	3.413	3.370
147.5	3.369	3.434	3.499	3.447	3.396	3.344	3.293	3.241	3.189	3.138
150.0	2.809	2.868	2.927	2.910	2.893	2.876	2.859	2.842	2.825	2.808
152.5	2.643	2.688	2.734	2.724	2.714	2.705	2.695	2.685	2.676	2.666
155.0	2.494	2.512	2.530	2.534	2.539	2.543	2.548	2.552	2.557	2.561
157.5	2.423	2.425	2.428	2.423	2.419	2.414	2.410	2.405	2.401	2.396
160.0	2.401	2.394	2.387	2.381	2.376	2.370	2.364	2.359	2.353	2.347
162.5	2.374	2.357	2.341	2.341	2.341	2.341	2.341	2.341	2.341	2.341
165.0	2.371	2.349	2.326	2.343	2.360	2.377	2.394	2.411	2.428	2.445
167.5	3.498	3.478	3.458	3.388	3.317	3.247	3.177	3.107	3.036	2.966
170.0	3.704	3.708	3.713	3.630	3.547	3.465	3.382	3.299	3.216	3.134
172.5	3.603	3.589	3.576	3.515	3.454	3.393	3.333	3.272	3.211	3.150
175.0	3.509	3.479	3.448	3.390	3.332	3.274	3.216	3.159	3.101	3.043
177.5	3.232	3.172	3.111	3.065	3.019	2.973	2.927	2.881	2.835	2.789
180.0	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : SWPM-WB-LED-PL2-50.IES**

**CANDELA TABULATION - (Cont.)**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b><u>200.0</u></b>	<b><u>202.5</u></b>	<b><u>205.0</u></b>	<b><u>207.5</u></b>	<b><u>210.0</u></b>	<b><u>212.5</u></b>	<b><u>215.0</u></b>	<b><u>217.5</u></b>	<b><u>220.0</u></b>	<b><u>222.5</u></b>
<b>0.0</b>	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383
<b>2.5</b>	1093.741	1094.970	1098.418	1101.865	1105.313	1108.760	1112.208	1115.656	1119.103	1122.551
<b>5.0</b>	960.351	961.901	969.679	977.457	985.235	993.013	1000.791	1008.569	1016.347	1024.125
<b>7.5</b>	862.475	865.317	877.851	890.384	902.918	915.451	927.985	940.518	953.052	965.585
<b>10.0</b>	789.217	794.672	804.620	814.569	824.517	834.465	844.414	854.362	864.310	874.259
<b>12.5</b>	730.918	736.843	743.215	749.586	755.958	762.329	768.701	775.073	781.444	787.816
<b>15.0</b>	679.699	686.399	691.623	696.846	702.070	707.293	712.517	717.740	722.964	728.187
<b>17.5</b>	629.528	635.853	641.798	647.744	653.689	659.635	665.580	671.526	677.471	683.417
<b>20.0</b>	572.476	578.095	585.254	592.414	599.573	606.732	613.892	621.051	628.210	635.370
<b>22.5</b>	505.002	509.929	519.403	528.878	538.353	547.827	557.302	566.777	576.251	585.726
<b>25.0</b>	438.366	442.762	453.627	464.492	475.358	486.223	497.088	507.953	518.819	529.684
<b>27.5</b>	370.662	375.539	387.518	399.497	411.477	423.456	435.435	447.415	459.394	471.373
<b>30.0</b>	300.953	305.959	319.438	332.917	346.395	359.874	373.353	386.832	400.310	413.789
<b>32.5</b>	241.004	245.116	259.871	274.626	289.381	304.136	318.890	333.645	348.400	363.155
<b>35.0</b>	191.635	194.616	209.432	224.248	239.064	253.880	268.697	283.513	298.329	313.145
<b>37.5</b>	154.507	156.744	170.481	184.218	197.955	211.692	225.429	239.166	252.903	266.640
<b>40.0</b>	127.862	129.979	141.667	153.355	165.043	176.731	188.419	200.107	211.795	223.483
<b>42.5</b>	107.133	109.207	118.943	128.679	138.416	148.152	157.889	167.625	177.362	187.098
<b>45.0</b>	88.267	90.199	98.841	107.482	116.124	124.766	133.407	142.049	150.691	159.332
<b>47.5</b>	73.120	74.720	82.566	90.412	98.258	106.104	113.950	121.796	129.642	137.488
<b>50.0</b>	60.717	62.077	69.580	77.082	84.585	92.088	99.590	107.093	114.596	122.098
<b>52.5</b>	52.145	53.213	59.950	66.686	73.423	80.159	86.896	93.632	100.369	107.105
<b>55.0</b>	45.072	46.053	52.062	58.071	64.080	70.089	76.097	82.106	88.115	94.124
<b>57.5</b>	38.423	39.275	45.128	50.980	56.833	62.685	68.538	74.390	80.243	86.095
<b>60.0</b>	31.321	32.069	37.627	43.185	48.743	54.301	59.858	65.416	70.974	76.532
<b>62.5</b>	23.380	24.037	29.225	34.413	39.602	44.790	49.978	55.167	60.355	65.544
<b>65.0</b>	15.480	16.065	20.874	25.683	30.491	35.300	40.109	44.918	49.726	54.535
<b>67.5</b>	7.905	8.247	12.659	17.071	21.483	25.895	30.307	34.719	39.131	43.543
<b>70.0</b>	1.850	1.856	5.873	9.889	13.906	17.922	21.939	25.955	29.972	33.988
<b>72.5</b>	2.120	2.111	5.012	7.914	10.815	13.717	16.618	19.519	22.421	25.322
<b>75.0</b>	2.350	2.315	4.494	6.674	8.853	11.033	13.212	15.392	17.571	19.751
<b>77.5</b>	2.735	2.703	4.644	6.585	8.526	10.466	12.407	14.348	16.289	18.230
<b>80.0</b>	2.921	2.887	4.544	6.201	7.858	9.515	11.171	12.828	14.485	16.142
<b>82.5</b>	3.421	3.397	4.784	6.170	7.557	8.943	10.330	11.717	13.103	14.490
<b>85.0</b>	3.704	3.652	4.849	6.046	7.242	8.439	9.636	10.833	12.029	13.226
<b>87.5</b>	3.761	3.667	4.694	5.721	6.748	7.774	8.801	9.828	10.855	11.882
<b>90.0</b>	3.793	3.682	4.585	5.489	6.392	7.295	8.199	9.102	10.005	10.909
<b>92.5</b>	3.850	3.703	4.469	5.235	6.001	6.767	7.533	8.299	9.065	9.831
<b>95.0</b>	3.873	3.723	4.364	5.006	5.647	6.289	6.930	7.572	8.213	8.855
<b>97.5</b>	3.889	3.738	4.270	4.801	5.333	5.864	6.396	6.927	7.459	7.990
<b>100.0</b>	3.906	3.754	4.174	4.595	5.015	5.436	5.856	6.277	6.697	7.118
<b>102.5</b>	3.920	3.769	4.119	4.469	4.820	5.170	5.520	5.870	6.221	6.571
<b>105.0</b>	3.925	3.784	4.059	4.335	4.610	4.886	5.161	5.437	5.712	5.988
<b>107.5</b>	3.918	3.805	4.015	4.225	4.436	4.646	4.856	5.066	5.277	5.487
<b>110.0</b>	3.948	3.856	4.015	4.173	4.332	4.491	4.649	4.808	4.967	5.125
<b>112.5</b>	3.858	3.774	3.896	4.019	4.141	4.264	4.386	4.509	4.631	4.754
<b>115.0</b>	3.834	3.754	3.850	3.947	4.043	4.139	4.236	4.332	4.428	4.525
<b>117.5</b>	3.777	3.703	3.784	3.866	3.947	4.029	4.111	4.192	4.274	4.355
<b>120.0</b>	3.693	3.652	3.679	3.706	3.733	3.760	3.788	3.815	3.842	3.869
<b>122.5</b>	3.626	3.591	3.585	3.579	3.573	3.568	3.562	3.556	3.550	3.545
<b>125.0</b>	3.578	3.539	3.527	3.514	3.502	3.489	3.477	3.464	3.452	3.439
<b>127.5</b>	3.562	3.524	3.505	3.485	3.466	3.447	3.428	3.408	3.389	3.370
<b>130.0</b>	3.546	3.509	3.482	3.455	3.427	3.400	3.373	3.346	3.318	3.291

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : SWPM-WB-LED-PL2-50.IES**

**CANDELA TABULATION - (Cont.)**

132.5	3.535	3.499	3.464	3.430	3.395	3.361	3.326	3.291	3.257	3.222
135.0	3.523	3.488	3.446	3.404	3.362	3.320	3.279	3.237	3.195	3.153
137.5	3.507	3.473	3.429	3.385	3.340	3.296	3.252	3.208	3.163	3.119
140.0	3.491	3.458	3.413	3.367	3.322	3.277	3.231	3.186	3.141	3.095
142.5	3.477	3.448	3.400	3.353	3.305	3.257	3.210	3.162	3.114	3.067
145.0	3.327	3.284	3.251	3.218	3.186	3.153	3.120	3.087	3.055	3.022
147.5	3.086	3.035	3.011	2.988	2.965	2.942	2.918	2.895	2.872	2.849
150.0	2.791	2.774	2.762	2.749	2.737	2.724	2.712	2.699	2.687	2.674
152.5	2.656	2.647	2.628	2.610	2.592	2.574	2.556	2.538	2.520	2.502
155.0	2.566	2.570	2.558	2.545	2.533	2.520	2.508	2.495	2.483	2.470
157.5	2.392	2.387	2.395	2.403	2.411	2.419	2.426	2.434	2.442	2.450
160.0	2.342	2.336	2.350	2.363	2.377	2.390	2.404	2.417	2.431	2.444
162.5	2.341	2.341	2.355	2.369	2.383	2.397	2.411	2.426	2.440	2.454
165.0	2.462	2.479	2.490	2.502	2.513	2.524	2.536	2.547	2.558	2.570
167.5	2.896	2.826	2.900	2.974	3.048	3.122	3.197	3.271	3.345	3.419
170.0	3.051	2.968	3.026	3.084	3.141	3.199	3.257	3.315	3.372	3.430
172.5	3.090	3.029	3.055	3.080	3.106	3.131	3.157	3.182	3.208	3.233
175.0	2.985	2.927	2.950	2.972	2.995	3.018	3.040	3.063	3.086	3.108
177.5	2.743	2.698	2.714	2.730	2.747	2.763	2.780	2.796	2.813	2.829
180.0	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000

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	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383
2.5	1125.999	1130.147	1134.295	1138.443	1142.591	1146.739	1150.887	1155.035	1159.183	1163.331
5.0	1031.903	1044.383	1056.864	1069.344	1081.824	1094.305	1106.785	1119.265	1131.746	1144.226
7.5	978.119	992.350	1006.581	1020.812	1035.044	1049.275	1063.506	1077.737	1091.969	1106.200
10.0	884.207	896.339	908.472	920.604	932.736	944.869	957.001	969.133	981.266	993.398
12.5	794.188	810.854	827.520	844.186	860.852	877.519	894.185	910.851	927.517	944.184
15.0	733.411	751.578	769.746	787.913	806.080	824.248	842.415	860.582	878.750	896.917
17.5	689.362	705.872	722.382	738.892	755.401	771.911	788.421	804.931	821.441	837.951
20.0	642.529	656.636	670.742	684.849	698.955	713.062	727.168	741.275	755.381	769.488
22.5	595.201	608.654	622.108	635.562	649.016	662.469	675.923	689.377	702.831	716.285
25.0	540.549	555.682	570.816	585.949	601.083	616.216	631.350	646.483	661.617	676.750
27.5	483.353	499.972	516.591	533.210	549.829	566.448	583.068	599.687	616.306	632.925
30.0	427.268	443.893	460.518	477.143	493.768	510.392	527.017	543.642	560.267	576.892
32.5	377.910	395.212	412.514	429.816	447.118	464.420	481.722	499.024	516.326	533.629
35.0	327.961	346.345	364.729	383.112	401.496	419.880	438.264	456.647	475.031	493.415
37.5	280.378	298.230	316.082	333.934	351.787	369.639	387.491	405.343	423.196	441.048
40.0	235.171	253.933	272.696	291.458	310.220	328.983	347.745	366.507	385.270	404.032
42.5	196.835	215.988	235.141	254.295	273.448	292.601	311.755	330.908	350.061	369.215
45.0	167.974	185.478	202.983	220.487	237.991	255.496	273.000	290.504	308.009	325.513
47.5	145.335	161.447	177.560	193.672	209.785	225.898	242.010	258.123	274.235	290.348
50.0	129.601	144.374	159.147	173.920	188.693	203.466	218.239	233.012	247.785	262.558
52.5	113.842	127.551	141.260	154.969	168.677	182.386	196.095	209.804	223.513	237.222
55.0	100.133	112.204	124.275	136.347	148.418	160.489	172.560	184.632	196.703	208.774
57.5	91.948	102.270	112.593	122.915	133.238	143.560	153.882	164.205	174.527	184.849
60.0	82.090	91.053	100.017	108.980	117.944	126.907	135.871	144.834	153.798	162.761
62.5	70.732	78.472	86.211	93.951	101.690	109.430	117.169	124.909	132.648	140.388
65.0	59.344	66.618	73.891	81.165	88.439	95.712	102.986	110.260	117.533	124.807
67.5	47.956	55.092	62.228	69.364	76.500	83.636	90.772	97.908	105.044	112.180
70.0	38.005	44.949	51.893	58.837	65.781	72.725	79.669	86.613	93.557	100.501
72.5	28.224	35.003	41.782	48.561	55.340	62.119	68.898	75.677	82.456	89.235
75.0	21.930	28.364	34.798	41.232	47.666	54.099	60.533	66.967	73.401	79.835
77.5	20.171	25.829	31.487	37.145	42.803	48.461	54.120	59.778	65.436	71.094

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : SWPM-WB-LED-PL2-50.IES**

**CANDELA TABULATION - (Cont.)**

80.0	17.799	22.935	28.071	33.208	38.344	43.480	48.616	53.753	58.889	64.025
82.5	15.877	20.710	25.543	30.376	35.209	40.042	44.875	49.708	54.541	59.374
85.0	14.423	18.999	23.576	28.152	32.728	37.305	41.881	46.457	51.034	55.610
87.5	12.909	17.305	21.701	26.097	30.493	34.889	39.286	43.682	48.078	52.474
90.0	11.812	15.899	19.986	24.072	28.159	32.246	36.333	40.419	44.506	48.593
92.5	10.598	14.372	18.146	21.920	25.694	29.468	33.242	37.016	40.790	44.564
95.0	9.496	12.950	16.405	19.859	23.314	26.768	30.223	33.677	37.132	40.586
97.5	8.522	11.645	14.768	17.891	21.014	24.136	27.259	30.382	33.505	36.628
100.0	7.538	10.361	13.184	16.007	18.830	21.654	24.477	27.300	30.123	32.946
102.5	6.921	9.383	11.844	14.306	16.767	19.229	21.690	24.152	26.613	29.075
105.0	6.263	8.433	10.604	12.774	14.944	17.115	19.285	21.455	23.626	25.796
107.5	5.697	7.625	9.552	11.480	13.408	15.336	17.263	19.191	21.119	23.047
110.0	5.284	6.959	8.634	10.309	11.984	13.659	15.334	17.009	18.684	20.359
112.5	4.876	6.371	7.866	9.361	10.855	12.350	13.845	15.340	16.835	18.330
115.0	4.621	5.947	7.273	8.599	9.925	11.251	12.577	13.903	15.229	16.555
117.5	4.437	5.623	6.808	7.994	9.179	10.365	11.550	12.736	13.921	15.107
120.0	3.896	4.997	6.097	7.198	8.298	9.399	10.499	11.600	12.700	13.801
122.5	3.539	4.506	5.474	6.441	7.408	8.376	9.343	10.310	11.278	12.245
125.0	3.427	4.243	5.059	5.875	6.691	7.507	8.323	9.139	9.955	10.771
127.5	3.351	4.029	4.708	5.387	6.066	6.745	7.424	8.103	8.782	9.461
130.0	3.264	3.831	4.397	4.964	5.531	6.097	6.664	7.231	7.797	8.364
132.5	3.188	3.691	4.194	4.697	5.200	5.704	6.207	6.710	7.213	7.717
135.0	3.111	3.535	3.959	4.383	4.807	5.230	5.654	6.078	6.502	6.926
137.5	3.075	3.400	3.725	4.049	4.374	4.699	5.024	5.348	5.673	5.998
140.0	3.050	3.298	3.546	3.795	4.043	4.291	4.539	4.788	5.036	5.284
142.5	3.019	3.194	3.369	3.545	3.720	3.895	4.070	4.245	4.420	4.596
145.0	2.989	3.090	3.191	3.291	3.392	3.493	3.594	3.694	3.795	3.896
147.5	2.826	2.848	2.871	2.893	2.916	2.939	2.961	2.984	3.006	3.029
150.0	2.662	2.656	2.651	2.645	2.639	2.634	2.628	2.622	2.617	2.611
152.5	2.484	2.494	2.504	2.514	2.524	2.535	2.545	2.555	2.565	2.576
155.0	2.458	2.467	2.476	2.485	2.494	2.504	2.513	2.522	2.531	2.540
157.5	2.458	2.463	2.468	2.473	2.478	2.484	2.489	2.494	2.499	2.504
160.0	2.458	2.459	2.460	2.461	2.462	2.464	2.465	2.466	2.467	2.468
162.5	2.468	2.464	2.460	2.456	2.452	2.449	2.445	2.441	2.437	2.433
165.0	2.581	2.575	2.570	2.564	2.558	2.553	2.547	2.541	2.536	2.530
167.5	3.494	3.501	3.509	3.517	3.525	3.533	3.541	3.549	3.557	3.565
170.0	3.488	3.507	3.527	3.546	3.565	3.585	3.604	3.623	3.643	3.662
172.5	3.259	3.306	3.353	3.400	3.447	3.494	3.541	3.588	3.635	3.682
175.0	3.131	3.193	3.256	3.318	3.380	3.443	3.505	3.567	3.630	3.692
177.5	2.846	2.891	2.937	2.983	3.029	3.075	3.121	3.167	3.213	3.259
180.0	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000

**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	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383
2.5	1168.937	1174.543	1180.149	1185.755	1191.361	1196.967	1202.573	1208.179	1213.785	1218.502
5.0	1155.753	1167.280	1178.807	1190.334	1201.862	1213.389	1224.916	1236.443	1247.970	1252.575
7.5	1120.268	1134.335	1148.403	1162.470	1176.538	1190.605	1204.673	1218.740	1232.808	1243.286
10.0	1013.830	1034.262	1054.693	1075.125	1095.557	1115.989	1136.420	1156.852	1177.284	1189.697
12.5	969.622	995.060	1020.498	1045.936	1071.375	1096.813	1122.251	1147.689	1173.128	1191.660
15.0	922.404	947.892	973.379	998.867	1024.354	1049.842	1075.329	1100.817	1126.304	1152.560
17.5	867.548	897.145	926.742	956.339	985.936	1015.533	1045.130	1074.727	1104.324	1133.926
20.0	803.268	837.048	870.828	904.608	938.389	972.169	1005.949	1039.729	1073.509	1105.263
22.5	753.718	791.152	828.585	866.019	903.452	940.886	978.319	1015.753	1053.186	1083.674
25.0	713.046	749.342	785.638	821.934	858.231	894.527	930.823	967.119	1003.415	1038.450



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : SWPM-WB-LED-PL2-50.IES**

**CANDELA TABULATION - (Cont.)**

27.5	667.552	702.180	736.807	771.434	806.062	840.689	875.316	909.944	944.571	981.207
30.0	614.669	652.447	690.224	728.001	765.779	803.556	841.333	879.111	916.888	950.936
32.5	569.580	605.531	641.482	677.433	713.384	749.335	785.286	821.237	857.188	900.459
35.0	529.647	565.878	602.110	638.341	674.573	710.804	747.036	783.267	819.499	861.707
37.5	479.954	518.859	557.765	596.670	635.576	674.482	713.387	752.293	791.199	833.836
40.0	441.536	479.041	516.545	554.049	591.554	629.058	666.562	704.067	741.571	784.233
42.5	406.232	443.250	480.267	517.285	554.302	591.320	628.337	665.355	702.372	747.657
45.0	361.499	397.484	433.470	469.455	505.441	541.426	577.412	613.397	649.383	697.188
47.5	326.143	361.937	397.732	433.527	469.321	505.116	540.911	576.705	612.500	661.866
50.0	296.703	330.848	364.993	399.138	433.284	467.429	501.574	535.719	569.864	620.234
52.5	268.928	300.635	332.342	364.048	395.755	427.462	459.169	490.875	522.582	573.125
55.0	239.575	270.375	301.176	331.976	362.777	393.577	424.378	455.178	485.979	536.883
57.5	215.402	245.955	276.508	307.061	337.614	368.167	398.720	429.273	459.826	510.640
60.0	192.989	223.218	253.446	283.674	313.903	344.131	374.359	404.588	434.816	485.726
62.5	169.690	198.993	228.295	257.597	286.899	316.202	345.504	374.806	404.109	459.929
65.0	151.009	177.210	203.412	229.613	255.815	282.016	308.218	334.419	360.621	419.499
67.5	135.408	158.636	181.865	205.093	228.321	251.549	274.778	298.006	321.234	382.963
70.0	120.543	140.585	160.626	180.668	200.710	220.752	240.793	260.835	280.877	340.459
72.5	106.453	123.671	140.889	158.107	175.326	192.544	209.762	226.980	244.199	303.483
75.0	93.746	107.656	121.567	135.477	149.388	163.298	177.209	191.119	205.030	260.597
77.5	82.525	93.956	105.387	116.817	128.248	139.679	151.110	162.541	173.972	231.431
80.0	73.101	82.177	91.252	100.328	109.404	118.480	127.555	136.631	145.707	202.164
82.5	65.647	71.920	78.193	84.466	90.739	97.012	103.285	109.558	115.832	170.803
85.0	59.814	64.017	68.221	72.424	76.628	80.831	85.035	89.238	93.442	146.929
87.5	55.455	58.435	61.416	64.397	67.377	70.358	73.339	76.319	79.300	130.355
90.0	51.131	53.668	56.206	58.743	61.281	63.818	66.356	68.893	71.431	115.518
92.5	47.223	49.883	52.542	55.202	57.861	60.520	63.180	65.839	68.499	108.178
95.0	43.728	46.869	50.011	53.152	56.294	59.435	62.577	65.718	68.860	104.796
97.5	40.255	43.881	47.508	51.135	54.761	58.388	62.015	65.641	69.268	99.537
100.0	36.966	40.986	45.006	49.026	53.045	57.065	61.085	65.105	69.125	95.507
102.5	33.372	37.668	41.965	46.261	50.558	54.854	59.151	63.447	67.744	90.835
105.0	30.284	34.772	39.260	43.748	48.236	52.724	57.212	61.700	66.188	85.873
107.5	27.554	32.062	36.570	41.078	45.586	50.094	54.602	59.110	63.618	80.369
110.0	24.840	29.321	33.803	38.284	42.765	47.246	51.728	56.209	60.690	75.029
112.5	22.655	26.980	31.306	35.631	39.956	44.282	48.607	52.932	57.258	69.632
115.0	20.638	24.722	28.805	32.888	36.972	41.055	45.138	49.222	53.305	63.927
117.5	18.866	22.626	26.386	30.146	33.906	37.666	41.425	45.185	48.945	58.355
120.0	17.194	20.587	23.980	27.373	30.767	34.160	37.553	40.946	44.339	52.811
122.5	15.362	18.478	21.595	24.712	27.828	30.945	34.062	37.178	40.295	47.916
125.0	13.610	16.449	19.288	22.127	24.966	27.805	30.644	33.483	36.322	43.188
127.5	12.047	14.634	17.221	19.808	22.395	24.982	27.568	30.155	32.742	38.831
130.0	10.659	12.954	15.249	17.544	19.839	22.134	24.429	26.724	29.019	34.339
132.5	9.719	11.722	13.724	15.727	17.729	19.732	21.734	23.737	25.740	30.208
135.0	8.665	10.403	12.142	13.880	15.619	17.357	19.096	20.834	22.573	26.342
137.5	7.521	9.044	10.568	12.091	13.614	15.137	16.660	18.183	19.707	22.650
140.0	6.563	7.843	9.122	10.402	11.681	12.961	14.240	15.520	16.799	19.029
142.5	5.672	6.749	7.826	8.902	9.979	11.056	12.132	13.209	14.286	15.855
145.0	4.737	5.578	6.419	7.260	8.101	8.942	9.783	10.624	11.465	12.470
147.5	3.724	4.420	5.115	5.810	6.506	7.201	7.896	8.592	9.287	10.046
150.0	3.144	3.676	4.209	4.742	5.274	5.807	6.340	6.872	7.405	7.958
152.5	2.918	3.260	3.602	3.944	4.287	4.629	4.971	5.313	5.656	6.082
155.0	2.747	2.955	3.162	3.369	3.577	3.784	3.991	4.199	4.406	4.671
157.5	2.609	2.715	2.820	2.926	3.031	3.137	3.242	3.348	3.453	3.584
160.0	2.476	2.484	2.492	2.500	2.508	2.516	2.524	2.532	2.540	2.592
162.5	2.414	2.394	2.375	2.356	2.337	2.317	2.298	2.279	2.260	2.240
165.0	2.502	2.473	2.445	2.417	2.388	2.360	2.332	2.303	2.275	2.236

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : SWPM-WB-LED-PL2-50.IES**

**CANDELA TABULATION - (Cont.)**

<b>167.5</b>	3.467	3.369	3.271	3.173	3.075	2.977	2.879	2.781	2.683	2.630
<b>170.0</b>	3.568	3.474	3.380	3.286	3.191	3.097	3.003	2.909	2.815	2.806
<b>172.5</b>	3.593	3.503	3.414	3.324	3.235	3.145	3.056	2.966	2.877	2.886
<b>175.0</b>	3.605	3.518	3.430	3.343	3.256	3.169	3.081	2.994	2.907	2.956
<b>177.5</b>	3.223	3.187	3.152	3.116	3.080	3.045	3.009	2.974	2.938	3.014
<b>180.0</b>	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b><u>275.0</u></b>	<b><u>277.5</u></b>	<b><u>280.0</u></b>	<b><u>282.5</u></b>	<b><u>285.0</u></b>	<b><u>287.5</u></b>	<b><u>290.0</u></b>	<b><u>292.5</u></b>	<b><u>295.0</u></b>	<b><u>297.5</u></b>
<b>0.0</b>	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383
<b>2.5</b>	1223.219	1227.936	1232.653	1237.370	1242.087	1246.804	1251.521	1256.238	1257.298	1258.358
<b>5.0</b>	1257.180	1261.784	1266.389	1270.994	1275.599	1280.203	1284.808	1289.413	1294.480	1299.547
<b>7.5</b>	1253.765	1264.244	1274.723	1285.202	1295.681	1306.159	1316.638	1327.117	1339.347	1351.578
<b>10.0</b>	1202.111	1214.524	1226.938	1239.351	1251.765	1264.178	1276.592	1289.005	1318.690	1348.376
<b>12.5</b>	1210.193	1228.726	1247.259	1265.792	1284.325	1302.857	1321.390	1339.923	1353.767	1367.612
<b>15.0</b>	1178.816	1205.072	1231.328	1257.584	1283.840	1310.096	1336.352	1362.608	1376.468	1390.327
<b>17.5</b>	1163.529	1193.132	1222.734	1252.337	1281.940	1311.542	1341.145	1370.748	1381.405	1392.063
<b>20.0</b>	1137.017	1168.770	1200.524	1232.278	1264.032	1295.785	1327.539	1359.293	1381.704	1404.114
<b>22.5</b>	1114.163	1144.651	1175.139	1205.628	1236.116	1266.604	1297.093	1327.581	1351.723	1375.866
<b>25.0</b>	1073.484	1108.519	1143.554	1178.588	1213.623	1248.658	1283.692	1318.727	1334.649	1350.571
<b>27.5</b>	1017.843	1054.479	1091.115	1127.752	1164.388	1201.024	1237.660	1274.296	1295.449	1316.602
<b>30.0</b>	984.983	1019.031	1053.079	1087.126	1121.174	1155.222	1189.269	1223.317	1250.882	1278.447
<b>32.5</b>	943.729	987.000	1030.270	1073.541	1116.812	1160.082	1203.353	1246.624	1290.150	1333.677
<b>35.0</b>	903.914	946.122	988.329	1030.537	1072.744	1114.952	1157.159	1199.367	1239.441	1279.514
<b>37.5</b>	876.474	919.112	961.749	1004.387	1047.025	1089.663	1132.300	1174.938	1202.355	1229.772
<b>40.0</b>	826.895	869.557	912.219	954.881	997.543	1040.205	1082.867	1125.529	1156.172	1186.815
<b>42.5</b>	792.941	838.226	883.510	928.795	974.080	1019.364	1064.649	1109.934	1143.524	1177.115
<b>45.0</b>	744.993	792.798	840.603	888.409	936.214	984.019	1031.824	1079.629	1116.899	1154.168
<b>47.5</b>	711.231	760.597	809.963	859.329	908.694	958.060	1007.426	1056.792	1096.186	1135.580
<b>50.0</b>	670.604	720.974	771.344	821.713	872.083	922.453	972.823	1023.193	1064.741	1106.289
<b>52.5</b>	623.668	674.212	724.755	775.298	825.841	876.385	926.928	977.471	1019.117	1060.763
<b>55.0</b>	587.786	638.690	689.594	740.497	791.401	842.305	893.208	944.112	989.077	1034.042
<b>57.5</b>	561.453	612.267	663.080	713.894	764.708	815.521	866.335	917.148	969.178	1021.207
<b>60.0</b>	536.637	587.547	638.458	689.368	740.279	791.189	842.100	893.010	949.673	1006.336
<b>62.5</b>	515.750	571.571	627.391	683.212	739.033	794.853	850.674	906.495	960.847	1015.200
<b>65.0</b>	478.377	537.254	596.132	655.010	713.888	772.765	831.643	890.521	941.026	991.531
<b>67.5</b>	444.691	506.420	568.149	629.877	691.606	753.335	815.063	876.792	927.623	978.453
<b>70.0</b>	400.040	459.622	519.204	578.785	638.367	697.949	757.530	817.112	871.963	926.814
<b>72.5</b>	362.767	422.051	481.335	540.619	599.903	659.187	718.471	777.755	837.599	897.443
<b>75.0</b>	316.165	371.732	427.299	482.867	538.434	594.001	649.569	705.136	770.151	835.166
<b>77.5</b>	288.890	346.350	403.809	461.269	518.728	576.188	633.647	691.107	751.030	810.953
<b>80.0</b>	258.621	315.078	371.535	427.992	484.449	540.906	597.363	653.820	712.370	770.920
<b>82.5</b>	225.774	280.745	335.716	390.687	445.659	500.630	555.601	610.572	678.943	747.313
<b>85.0</b>	200.415	253.902	307.388	360.875	414.361	467.848	521.334	574.821	638.714	702.607
<b>87.5</b>	181.410	232.465	283.520	334.575	385.630	436.685	487.740	538.795	597.162	655.529
<b>90.0</b>	159.604	203.691	247.778	291.864	335.951	380.038	424.124	468.211	526.314	584.416
<b>92.5</b>	147.857	187.536	227.215	266.894	306.573	346.252	385.931	425.611	483.896	542.182
<b>95.0</b>	140.732	176.667	212.603	248.539	284.475	320.410	356.346	392.282	448.144	504.006
<b>97.5</b>	129.806	160.075	190.344	220.613	250.882	281.151	311.420	341.690	397.705	453.720
<b>100.0</b>	121.889	148.270	174.652	201.034	227.416	253.797	280.179	306.561	360.401	414.241
<b>102.5</b>	113.926	137.017	160.108	183.199	206.290	229.381	252.472	275.564	324.945	374.326
<b>105.0</b>	105.558	125.243	144.928	164.612	184.297	203.982	223.667	243.352	290.393	337.434
<b>107.5</b>	97.121	113.873	130.625	147.376	164.128	180.880	197.632	214.384	256.922	299.461
<b>110.0</b>	89.368	103.707	118.046	132.384	146.723	161.062	175.401	189.740	230.088	270.436
<b>112.5</b>	82.006	94.381	106.755	119.129	131.504	143.878	156.252	168.627	206.054	243.482

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : SWPM-WB-LED-PL2-50.IES**

**CANDELA TABULATION - (Cont.)**

115.0	74.548	85.170	95.792	106.413	117.035	127.657	138.278	148.900	182.409	215.918
117.5	67.764	77.174	86.583	95.993	105.402	114.812	124.221	133.631	162.784	191.937
120.0	61.282	69.754	78.226	86.697	95.169	103.641	112.112	120.584	146.027	171.471
122.5	55.536	63.157	70.777	78.398	86.018	93.639	101.259	108.880	131.071	153.262
125.0	50.054	56.919	63.785	70.651	77.517	84.382	91.248	98.114	117.428	136.742
127.5	44.921	51.010	57.100	63.189	69.278	75.368	81.457	87.547	104.109	120.672
130.0	39.659	44.979	50.299	55.618	60.938	66.258	71.578	76.898	91.490	106.081
132.5	34.677	39.146	43.614	48.083	52.552	57.021	61.489	65.958	79.270	92.581
135.0	30.112	33.881	37.651	41.420	45.190	48.959	52.729	56.498	68.452	80.407
137.5	25.594	28.538	31.482	34.425	37.369	40.313	43.257	46.201	57.365	68.530
140.0	21.260	23.490	25.721	27.951	30.182	32.412	34.643	36.873	47.229	57.586
142.5	17.425	18.995	20.564	22.134	23.704	25.273	26.843	28.413	37.634	46.855
145.0	13.475	14.481	15.486	16.491	17.496	18.502	19.507	20.512	28.415	36.318
147.5	10.806	11.565	12.324	13.084	13.843	14.602	15.362	16.121	22.417	28.712
150.0	8.511	9.064	9.617	10.171	10.724	11.277	11.830	12.383	16.948	21.513
152.5	6.508	6.934	7.360	7.786	8.213	8.639	9.065	9.491	12.158	14.826
155.0	4.936	5.202	5.467	5.732	5.997	6.263	6.528	6.793	8.352	9.912
157.5	3.716	3.847	3.979	4.110	4.242	4.373	4.505	4.636	5.331	6.025
160.0	2.644	2.696	2.748	2.801	2.853	2.905	2.957	3.009	2.969	2.930
162.5	2.221	2.202	2.182	2.163	2.144	2.125	2.105	2.086	2.044	2.002
165.0	2.198	2.159	2.121	2.082	2.044	2.005	1.967	1.928	1.918	1.908
167.5	2.576	2.523	2.470	2.417	2.363	2.310	2.257	2.204	2.173	2.142
170.0	2.797	2.788	2.779	2.770	2.761	2.752	2.743	2.734	2.690	2.646
172.5	2.896	2.906	2.915	2.925	2.935	2.944	2.954	2.964	2.942	2.920
175.0	3.005	3.053	3.102	3.151	3.200	3.248	3.297	3.346	3.319	3.292
177.5	3.090	3.166	3.242	3.317	3.393	3.469	3.545	3.621	3.580	3.539
180.0	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000

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

	<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	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383
2.5	1259.418	1260.478	1261.539	1262.599	1263.659	1264.719	1265.780	1267.591	1269.403	1271.214
5.0	1304.614	1309.681	1314.749	1319.816	1324.883	1329.950	1335.017	1337.907	1340.797	1343.687
7.5	1363.808	1376.038	1388.269	1400.499	1412.729	1424.960	1437.190	1441.123	1445.055	1448.988
10.0	1378.061	1407.746	1437.432	1467.117	1496.802	1526.488	1556.173	1551.733	1547.292	1542.852
12.5	1381.456	1395.300	1409.144	1422.989	1436.833	1450.677	1464.522	1471.901	1479.280	1486.659
15.0	1404.187	1418.046	1431.906	1445.765	1459.625	1473.484	1487.344	1510.729	1534.114	1557.499
17.5	1402.721	1413.379	1424.037	1434.695	1445.353	1456.011	1466.669	1491.786	1516.903	1542.021
20.0	1426.525	1448.935	1471.346	1493.756	1516.167	1538.577	1560.988	1572.274	1583.559	1594.845
22.5	1400.008	1424.150	1448.292	1472.435	1496.577	1520.719	1544.862	1551.936	1559.011	1566.086
25.0	1366.494	1382.416	1398.338	1414.260	1430.183	1446.105	1462.027	1488.035	1514.043	1540.050
27.5	1337.756	1358.909	1380.062	1401.215	1422.368	1443.521	1464.675	1490.032	1515.390	1540.748
30.0	1306.012	1333.577	1361.141	1388.706	1416.271	1443.836	1471.401	1488.207	1505.013	1521.820
32.5	1377.204	1420.731	1464.257	1507.784	1551.311	1594.838	1638.365	1648.285	1658.205	1668.125
35.0	1319.588	1359.661	1399.735	1439.808	1479.882	1519.955	1560.029	1577.597	1595.165	1612.732
37.5	1257.189	1284.606	1312.023	1339.440	1366.857	1394.274	1421.692	1456.810	1491.928	1527.046
40.0	1217.458	1248.101	1278.745	1309.388	1340.031	1370.674	1401.317	1442.832	1484.347	1525.862
42.5	1210.706	1244.297	1277.888	1311.479	1345.070	1378.661	1412.252	1450.066	1487.880	1525.694
45.0	1191.438	1228.708	1265.977	1303.247	1340.517	1377.786	1415.056	1459.808	1504.560	1549.312
47.5	1174.974	1214.368	1253.762	1293.156	1332.550	1371.944	1411.338	1460.286	1509.233	1558.181
50.0	1147.837	1189.385	1230.933	1272.481	1314.029	1355.577	1397.125	1451.262	1505.399	1559.536
52.5	1102.409	1144.055	1185.701	1227.347	1268.993	1310.639	1352.286	1414.181	1476.076	1537.971
55.0	1079.007	1123.972	1168.937	1213.902	1258.867	1303.832	1348.797	1416.607	1484.416	1552.226
57.5	1073.236	1125.265	1177.294	1229.323	1281.352	1333.381	1385.410	1451.732	1518.053	1584.375
60.0	1063.000	1119.663	1176.326	1232.989	1289.653	1346.316	1402.979	1458.783	1514.587	1570.392

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : SWPM-WB-LED-PL2-50.IES**

**CANDELA TABULATION - (Cont.)**

62.5	1069.553	1123.906	1178.259	1232.612	1286.965	1341.318	1395.671	1450.756	1505.840	1560.925
65.0	1042.035	1092.540	1143.045	1193.550	1244.054	1294.559	1345.064	1411.152	1477.240	1543.328
67.5	1029.284	1080.114	1130.945	1181.775	1232.606	1283.436	1334.267	1410.927	1487.588	1564.248
70.0	981.665	1036.516	1091.367	1146.218	1201.069	1255.920	1310.771	1390.079	1469.388	1548.696
72.5	957.287	1017.131	1076.975	1136.819	1196.663	1256.507	1316.351	1385.529	1454.707	1523.885
75.0	900.180	965.195	1030.210	1095.225	1160.239	1225.254	1290.269	1357.226	1424.184	1491.141
77.5	870.876	930.800	990.723	1050.646	1110.569	1170.493	1230.416	1296.417	1362.418	1428.418
80.0	829.471	888.021	946.571	1005.121	1063.672	1122.222	1180.772	1265.923	1351.074	1436.224
82.5	815.684	884.054	952.425	1020.796	1089.166	1157.537	1225.908	1296.691	1367.475	1438.258
85.0	766.499	830.392	894.285	958.178	1022.070	1085.963	1149.856	1218.050	1286.244	1354.437
87.5	713.896	772.263	830.631	888.998	947.365	1005.732	1064.100	1141.438	1218.777	1296.116
90.0	642.519	700.621	758.724	816.826	874.929	933.031	991.134	1062.737	1134.340	1205.943
92.5	600.467	658.753	717.039	775.324	833.610	891.895	950.181	1020.338	1090.494	1160.651
95.0	559.868	615.730	671.592	727.454	783.316	839.178	895.040	962.471	1029.902	1097.333
97.5	509.735	565.750	621.765	677.780	733.795	789.810	845.825	907.039	968.253	1029.467
100.0	468.081	521.921	575.762	629.602	683.442	737.282	791.122	853.109	915.095	977.082
102.5	423.707	473.088	522.469	571.850	621.231	670.612	719.993	777.920	835.848	893.775
105.0	384.476	431.517	478.558	525.599	572.641	619.682	666.723	721.522	776.321	831.120
107.5	341.999	384.538	427.076	469.615	512.153	554.692	597.231	650.986	704.742	758.498
110.0	310.784	351.132	391.479	431.827	472.175	512.523	552.871	598.636	644.401	690.166
112.5	280.910	318.338	355.765	393.193	430.621	468.049	505.477	547.223	588.969	630.716
115.0	249.428	282.937	316.446	349.955	383.465	416.974	450.483	489.821	529.159	568.497
117.5	221.090	250.244	279.397	308.550	337.703	366.857	396.010	432.056	468.101	504.147
120.0	196.914	222.357	247.801	273.244	298.687	324.131	349.574	381.630	413.687	445.743
122.5	175.454	197.645	219.836	242.027	264.219	286.410	308.601	335.137	361.674	388.210
125.0	156.057	175.371	194.685	213.999	233.314	252.628	271.942	293.571	315.199	336.828
127.5	137.234	153.797	170.359	186.922	203.484	220.047	236.610	254.518	272.427	290.336
130.0	120.673	135.265	149.856	164.448	179.040	193.631	208.223	222.378	236.534	250.689
132.5	105.893	119.204	132.516	145.828	159.139	172.451	185.763	196.717	207.671	218.625
135.0	92.361	104.315	116.270	128.224	140.178	152.133	164.087	172.845	181.604	190.362
137.5	79.694	90.859	102.023	113.188	124.352	135.517	146.681	153.354	160.026	166.699
140.0	67.942	78.299	88.655	99.012	109.368	119.725	130.081	135.147	140.213	145.279
142.5	56.077	65.298	74.519	83.741	92.962	102.183	111.405	115.677	119.950	124.223
145.0	44.220	52.123	60.026	67.929	75.831	83.734	91.637	95.523	99.409	103.296
147.5	35.008	41.304	47.599	53.895	60.191	66.486	72.782	76.842	80.901	84.961
150.0	26.078	30.643	35.208	39.773	44.338	48.903	53.468	57.860	62.251	66.643
152.5	17.493	20.160	22.827	25.495	28.162	30.829	33.497	37.978	42.460	46.942
155.0	11.471	13.031	14.590	16.150	17.709	19.269	20.828	24.561	28.294	32.028
157.5	6.720	7.415	8.110	8.804	9.499	10.194	10.889	13.302	15.715	18.129
160.0	2.890	2.850	2.811	2.771	2.731	2.692	2.652	4.243	5.834	7.426
162.5	1.960	1.918	1.876	1.834	1.792	1.750	1.709	2.428	3.147	3.866
165.0	1.897	1.887	1.877	1.867	1.856	1.846	1.836	1.808	1.779	1.751
167.5	2.112	2.081	2.050	2.020	1.989	1.959	1.928	1.876	1.824	1.772
170.0	2.601	2.557	2.513	2.469	2.424	2.380	2.336	2.269	2.202	2.135
172.5	2.899	2.877	2.856	2.834	2.813	2.791	2.770	2.689	2.609	2.528
175.0	3.264	3.237	3.210	3.183	3.155	3.128	3.101	3.013	2.924	2.836
177.5	3.499	3.458	3.417	3.376	3.336	3.295	3.254	3.191	3.127	3.064
180.0	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000

**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	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383	1210.383
2.5	1273.026	1274.838	1276.649	1278.461	1280.272	1282.084	1282.807	1283.530	1284.253	1284.976
5.0	1346.577	1349.467	1352.357	1355.247	1358.137	1361.027	1363.710	1366.392	1369.075	1371.757
7.5	1452.921	1456.853	1460.786	1464.719	1468.651	1472.584	1473.220	1473.857	1474.493	1475.130

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : SWPM-WB-LED-PL2-50.IES**

**CANDELA TABULATION - (Cont.)**

10.0	1538.412	1533.971	1529.531	1525.091	1520.650	1516.210	1511.488	1506.767	1502.045	1497.324
12.5	1494.038	1501.417	1508.796	1516.175	1523.554	1530.934	1533.561	1536.188	1538.815	1541.442
15.0	1580.884	1604.270	1627.655	1651.040	1674.425	1697.810	1698.843	1699.875	1700.908	1701.940
17.5	1567.138	1592.256	1617.373	1642.491	1667.608	1692.726	1687.926	1683.127	1678.328	1673.529
20.0	1606.131	1617.416	1628.702	1639.988	1651.273	1662.559	1658.306	1654.052	1649.799	1645.546
22.5	1573.161	1580.236	1587.311	1594.385	1601.460	1608.535	1614.433	1620.332	1626.230	1632.129
25.0	1566.058	1592.066	1618.074	1644.081	1670.089	1696.097	1703.290	1710.483	1717.677	1724.870
27.5	1566.105	1591.463	1616.821	1642.179	1667.536	1692.894	1682.698	1672.502	1662.306	1652.110
30.0	1538.626	1555.432	1572.238	1589.045	1605.851	1622.657	1634.705	1646.754	1658.802	1670.851
32.5	1678.045	1687.965	1697.885	1707.805	1717.725	1727.646	1731.549	1735.452	1739.355	1743.258
35.0	1630.300	1647.868	1665.436	1683.003	1700.571	1718.139	1739.633	1761.126	1782.620	1804.114
37.5	1562.164	1597.282	1632.400	1667.518	1702.636	1737.754	1747.585	1757.417	1767.249	1777.080
40.0	1567.377	1608.893	1650.408	1691.923	1733.438	1774.953	1779.421	1783.888	1788.356	1792.823
42.5	1563.508	1601.323	1639.137	1676.951	1714.765	1752.580	1781.211	1809.842	1838.474	1867.105
45.0	1594.064	1638.816	1683.568	1728.320	1773.072	1817.824	1842.128	1866.433	1890.737	1915.041
47.5	1607.128	1656.076	1705.023	1753.971	1802.918	1851.866	1879.020	1906.173	1933.327	1960.480
50.0	1613.673	1667.810	1721.947	1776.084	1830.221	1884.358	1910.285	1936.213	1962.140	1988.067
52.5	1599.867	1661.762	1723.657	1785.552	1847.448	1909.343	1925.184	1941.025	1956.867	1972.708
55.0	1620.035	1687.845	1755.654	1823.464	1891.273	1959.083	1988.495	2017.908	2047.320	2076.732
57.5	1650.696	1717.017	1783.339	1849.660	1915.982	1982.303	1997.742	2013.180	2028.618	2044.057
60.0	1626.196	1682.000	1737.804	1793.609	1849.413	1905.217	1926.366	1947.515	1968.664	1989.813
62.5	1616.009	1671.094	1726.178	1781.263	1836.347	1891.432	1916.943	1942.453	1967.964	1993.475
65.0	1609.416	1675.504	1741.592	1807.680	1873.768	1939.856	1965.901	1991.946	2017.992	2044.037
67.5	1640.909	1717.569	1794.229	1870.890	1947.550	2024.211	2047.048	2069.885	2092.722	2115.559
70.0	1628.005	1707.313	1786.622	1865.930	1945.239	2024.547	2042.447	2060.347	2078.247	2096.147
72.5	1593.063	1662.242	1731.420	1800.598	1869.776	1938.954	1965.515	1992.076	2018.636	2045.197
75.0	1558.098	1625.056	1692.013	1758.970	1825.928	1892.885	1911.171	1929.458	1947.744	1966.030
77.5	1494.419	1560.420	1626.421	1692.421	1758.422	1824.423	1851.955	1879.487	1907.019	1934.551
80.0	1521.375	1606.526	1691.677	1776.827	1861.978	1947.129	1980.208	2013.286	2046.365	2079.443
82.5	1509.042	1579.825	1650.609	1721.392	1792.176	1862.959	1890.006	1917.053	1944.100	1971.147
85.0	1422.631	1490.825	1559.019	1627.212	1695.406	1763.600	1797.273	1830.945	1864.618	1898.290
87.5	1373.454	1450.793	1528.132	1605.471	1682.809	1760.148	1782.122	1804.096	1826.071	1848.045
90.0	1277.546	1349.148	1420.751	1492.354	1563.957	1635.560	1665.962	1696.363	1726.765	1757.167
92.5	1230.808	1300.965	1371.121	1441.278	1511.435	1581.592	1604.460	1627.328	1650.197	1673.065
95.0	1164.764	1232.195	1299.626	1367.057	1434.488	1501.919	1523.506	1545.092	1566.679	1588.266
97.5	1090.681	1151.895	1213.110	1274.324	1335.538	1396.752	1417.483	1438.214	1458.945	1479.676
100.0	1039.068	1101.055	1163.041	1225.028	1287.014	1349.001	1368.849	1388.697	1408.545	1428.393
102.5	951.703	1009.630	1067.558	1125.485	1183.413	1241.340	1263.432	1285.524	1307.616	1329.708
105.0	885.919	940.717	995.516	1050.315	1105.114	1159.913	1174.574	1189.235	1203.896	1218.557
107.5	812.253	866.009	919.765	973.520	1027.276	1081.032	1081.494	1081.956	1082.419	1082.881
110.0	735.931	781.697	827.462	873.227	918.992	964.757	956.111	947.465	938.818	930.172
112.5	672.462	714.208	755.955	797.701	839.447	881.194	873.818	866.443	859.068	851.693
115.0	607.835	647.173	686.511	725.849	765.187	804.525	801.966	799.407	796.848	794.289
117.5	540.193	576.238	612.284	648.330	684.375	720.421	716.696	712.970	709.245	705.520
120.0	477.799	509.856	541.912	573.968	606.025	638.081	634.007	629.932	625.858	621.784
122.5	414.747	441.283	467.820	494.356	520.893	547.429	545.612	543.796	541.979	540.162
125.0	358.456	380.085	401.713	423.342	444.970	466.599	467.524	468.449	469.373	470.298
127.5	308.245	326.154	344.063	361.972	379.881	397.790	399.569	401.347	403.126	404.905
130.0	264.844	279.000	293.155	307.310	321.466	335.621	338.484	341.347	344.209	347.072
132.5	229.579	240.534	251.488	262.442	273.396	284.351	287.336	290.321	293.306	296.291
135.0	199.121	207.879	216.638	225.396	234.155	242.913	245.426	247.938	250.451	252.963
137.5	173.371	180.044	186.716	193.389	200.061	206.734	209.202	211.671	214.140	216.609
140.0	150.345	155.411	160.477	165.543	170.609	175.675	177.752	179.830	181.907	183.984
142.5	128.495	132.768	137.041	141.313	145.586	149.859	151.996	154.133	156.271	158.408
145.0	107.182	111.068	114.954	118.841	122.727	126.613	128.867	131.121	133.375	135.629
147.5	89.020	93.080	97.140	101.199	105.259	109.319	111.970	114.621	117.273	119.924

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : SWPM-WB-LED-PL2-50.IES**

**CANDELA TABULATION - (Cont.)**

150.0	71.035	75.426	79.818	84.210	88.601	92.993	95.805	98.617	101.429	104.241
152.5	51.424	55.905	60.387	64.869	69.351	73.833	76.744	79.656	82.567	85.479
155.0	35.761	39.494	43.227	46.961	50.694	54.427	57.112	59.797	62.482	65.167
157.5	20.542	22.956	25.369	27.783	30.196	32.610	35.201	37.793	40.385	42.977
160.0	9.017	10.608	12.199	13.791	15.382	16.973	18.492	20.010	21.529	23.048
162.5	4.585	5.304	6.023	6.742	7.461	8.181	8.900	9.620	10.340	11.059
165.0	1.723	1.694	1.666	1.638	1.609	1.581	1.885	2.189	2.492	2.796
167.5	1.719	1.667	1.615	1.563	1.511	1.459	1.442	1.425	1.408	1.391
170.0	2.068	2.002	1.935	1.868	1.801	1.734	1.681	1.628	1.574	1.521
172.5	2.448	2.367	2.287	2.206	2.126	2.045	1.978	1.910	1.843	1.775
175.0	2.747	2.659	2.570	2.482	2.393	2.305	2.255	2.205	2.155	2.105
177.5	3.000	2.937	2.873	2.810	2.746	2.683	2.613	2.544	2.475	2.406
180.0	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000

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

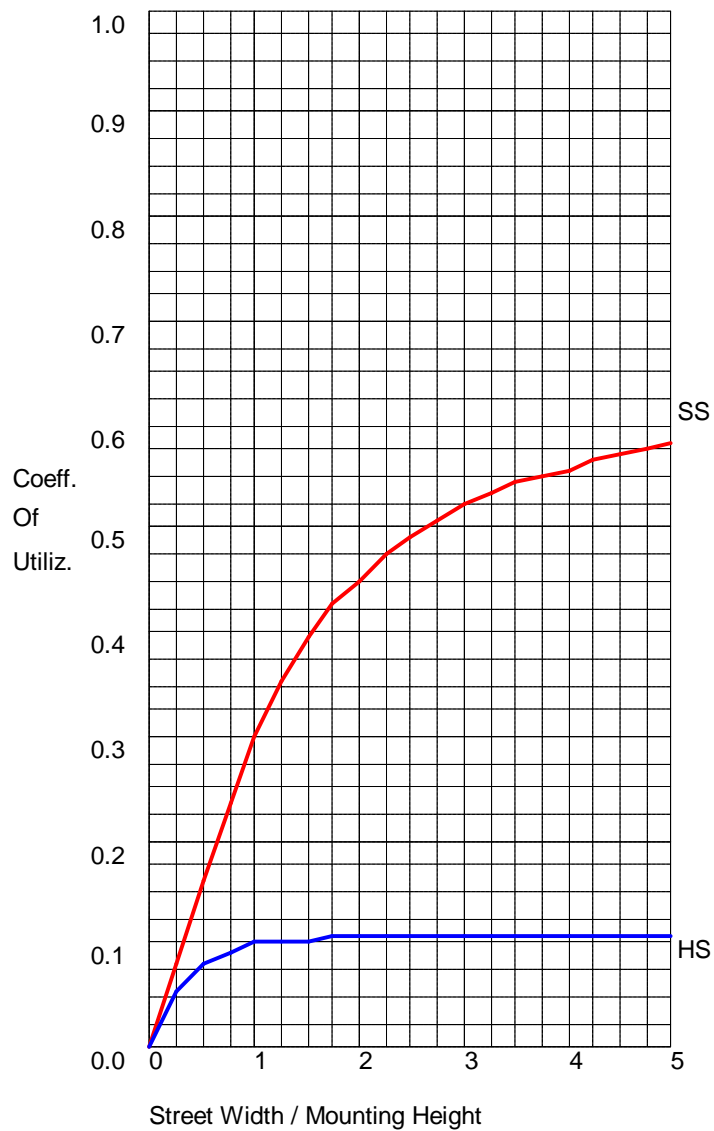
	<u>350.0</u>	<u>352.5</u>	<u>355.0</u>	<u>357.5</u>	<u>360.0</u>
0.0	1210.383	1210.383	1210.383	1210.383	1210.383
2.5	1285.699	1286.422	1287.145	1287.868	1288.592
5.0	1374.440	1377.122	1379.805	1382.487	1385.170
7.5	1475.766	1476.402	1477.039	1477.675	1478.312
10.0	1492.602	1487.881	1483.159	1478.438	1473.716
12.5	1544.069	1546.696	1549.323	1551.950	1554.577
15.0	1702.973	1704.005	1705.038	1706.070	1707.103
17.5	1668.730	1663.931	1659.132	1654.333	1649.534
20.0	1641.292	1637.039	1632.786	1628.532	1624.279
22.5	1638.027	1643.926	1649.824	1655.723	1661.621
25.0	1732.063	1739.256	1746.450	1753.643	1760.836
27.5	1641.914	1631.718	1621.522	1611.326	1601.130
30.0	1682.899	1694.948	1706.996	1719.045	1731.093
32.5	1747.161	1751.065	1754.968	1758.871	1762.774
35.0	1825.607	1847.101	1868.595	1890.088	1911.582
37.5	1786.912	1796.744	1806.575	1816.407	1826.239
40.0	1797.291	1801.758	1806.226	1810.693	1815.161
42.5	1895.736	1924.368	1952.999	1981.631	2010.262
45.0	1939.346	1963.650	1987.954	2012.259	2036.563
47.5	1987.634	2014.787	2041.941	2069.094	2096.248
50.0	2013.995	2039.922	2065.849	2091.777	2117.704
52.5	1988.549	2004.390	2020.231	2036.072	2051.914
55.0	2106.145	2135.557	2164.969	2194.382	2223.794
57.5	2059.495	2074.933	2090.372	2105.810	2121.248
60.0	2010.963	2032.112	2053.261	2074.410	2095.559
62.5	2018.986	2044.496	2070.007	2095.518	2121.029
65.0	2070.082	2096.127	2122.173	2148.218	2174.263
67.5	2138.397	2161.234	2184.071	2206.908	2229.746
70.0	2114.046	2131.946	2149.846	2167.746	2185.646
72.5	2071.758	2098.319	2124.879	2151.440	2178.001
75.0	1984.317	2002.603	2020.889	2039.176	2057.462
77.5	1962.083	1989.615	2017.147	2044.679	2072.212
80.0	2112.522	2145.600	2178.679	2211.757	2244.836
82.5	1998.194	2025.241	2052.288	2079.335	2106.382
85.0	1931.963	1965.635	1999.308	2032.980	2066.653
87.5	1870.019	1891.993	1913.967	1935.941	1957.916
90.0	1787.568	1817.970	1848.372	1878.773	1909.175
92.5	1695.933	1718.802	1741.670	1764.539	1787.407
95.0	1609.852	1631.439	1653.026	1674.612	1696.199

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : SWPM-WB-LED-PL2-50.IES**

**CANDELA TABULATION - (Cont.)**

<b>97.5</b>	1500.407	1521.138	1541.869	1562.600	1583.331
<b>100.0</b>	1448.242	1468.090	1487.938	1507.786	1527.634
<b>102.5</b>	1351.800	1373.892	1395.984	1418.076	1440.169
<b>105.0</b>	1233.217	1247.878	1262.539	1277.200	1291.861
<b>107.5</b>	1083.344	1083.806	1084.269	1084.731	1085.194
<b>110.0</b>	921.526	912.880	904.233	895.587	886.941
<b>112.5</b>	844.318	836.943	829.567	822.192	814.817
<b>115.0</b>	791.729	789.170	786.611	784.052	781.493
<b>117.5</b>	701.795	698.069	694.344	690.619	686.894
<b>120.0</b>	617.709	613.635	609.561	605.486	601.412
<b>122.5</b>	538.345	536.529	534.712	532.895	531.079
<b>125.0</b>	471.223	472.148	473.072	473.997	474.922
<b>127.5</b>	406.684	408.462	410.241	412.020	413.799
<b>130.0</b>	349.935	352.798	355.660	358.523	361.386
<b>132.5</b>	299.277	302.262	305.247	308.232	311.218
<b>135.0</b>	255.476	257.988	260.501	263.013	265.526
<b>137.5</b>	219.078	221.547	224.016	226.485	228.954
<b>140.0</b>	186.062	188.139	190.216	192.294	194.371
<b>142.5</b>	160.546	162.683	164.821	166.958	169.096
<b>145.0</b>	137.884	140.138	142.392	144.646	146.900
<b>147.5</b>	122.576	125.227	127.879	130.530	133.182
<b>150.0</b>	107.052	109.864	112.676	115.488	118.300
<b>152.5</b>	88.390	91.302	94.213	97.125	100.037
<b>155.0</b>	67.851	70.536	73.221	75.906	78.591
<b>157.5</b>	45.569	48.161	50.753	53.345	55.937
<b>160.0</b>	24.566	26.085	27.604	29.122	30.641
<b>162.5</b>	11.779	12.499	13.218	13.938	14.658
<b>165.0</b>	3.100	3.404	3.707	4.011	4.315
<b>167.5</b>	1.374	1.357	1.340	1.323	1.306
<b>170.0</b>	1.468	1.415	1.361	1.308	1.255
<b>172.5</b>	1.708	1.640	1.573	1.505	1.438
<b>175.0</b>	2.056	2.006	1.956	1.906	1.856
<b>177.5</b>	2.337	2.268	2.198	2.129	2.060
<b>180.0</b>	2.000	2.000	2.000	2.000	2.000

### COEFFICIENTS OF UTILIZATION

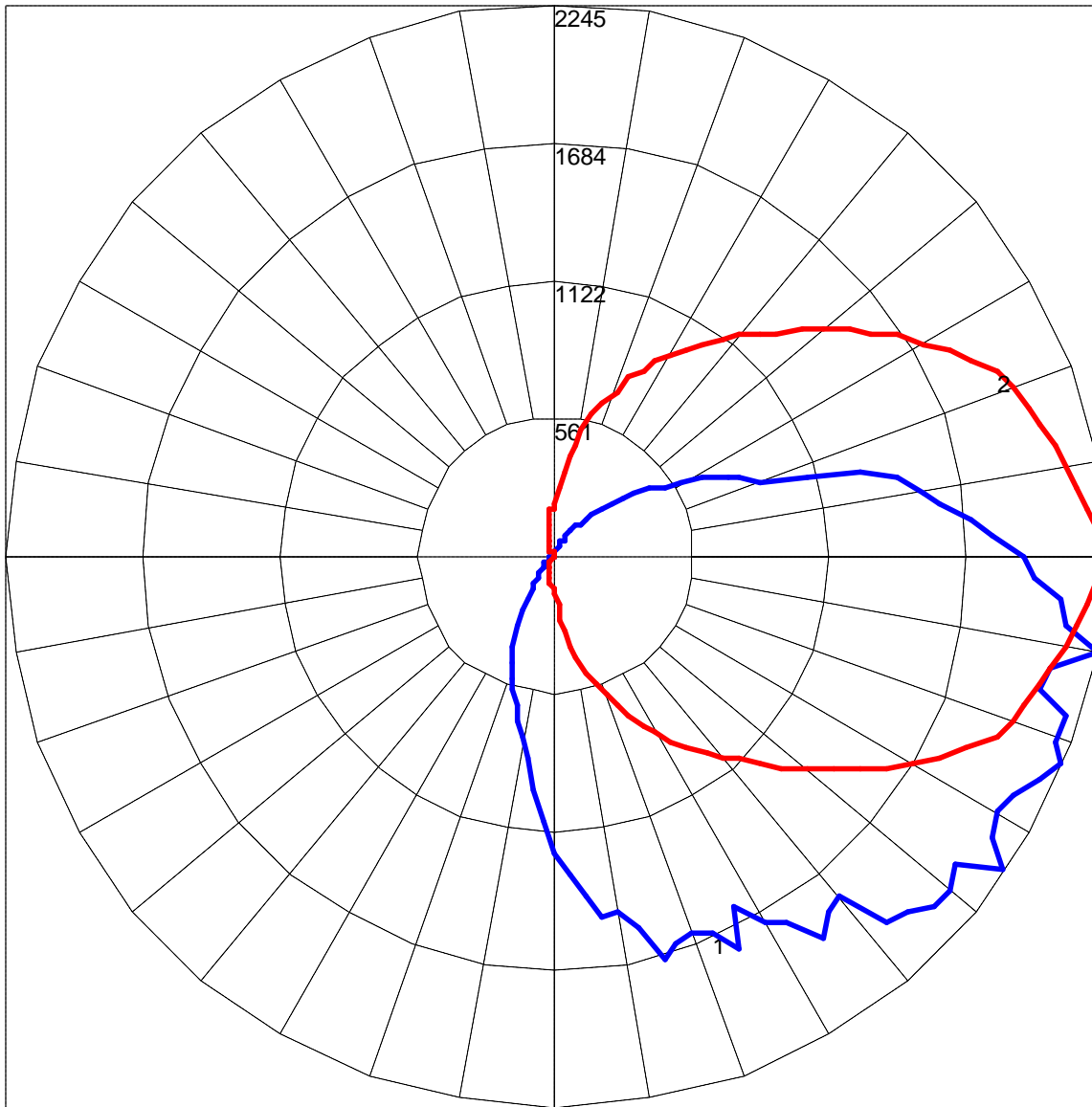


### FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	4276.1	67.2
Downward House Side	700.5	11.0
Downward Total	4976.6	78.2
Upward Street Side	1345.8	21.1
Upward House Side	41.5	0.7
Upward Total	1387.3	21.8
Total Flux	6363.9	100.0

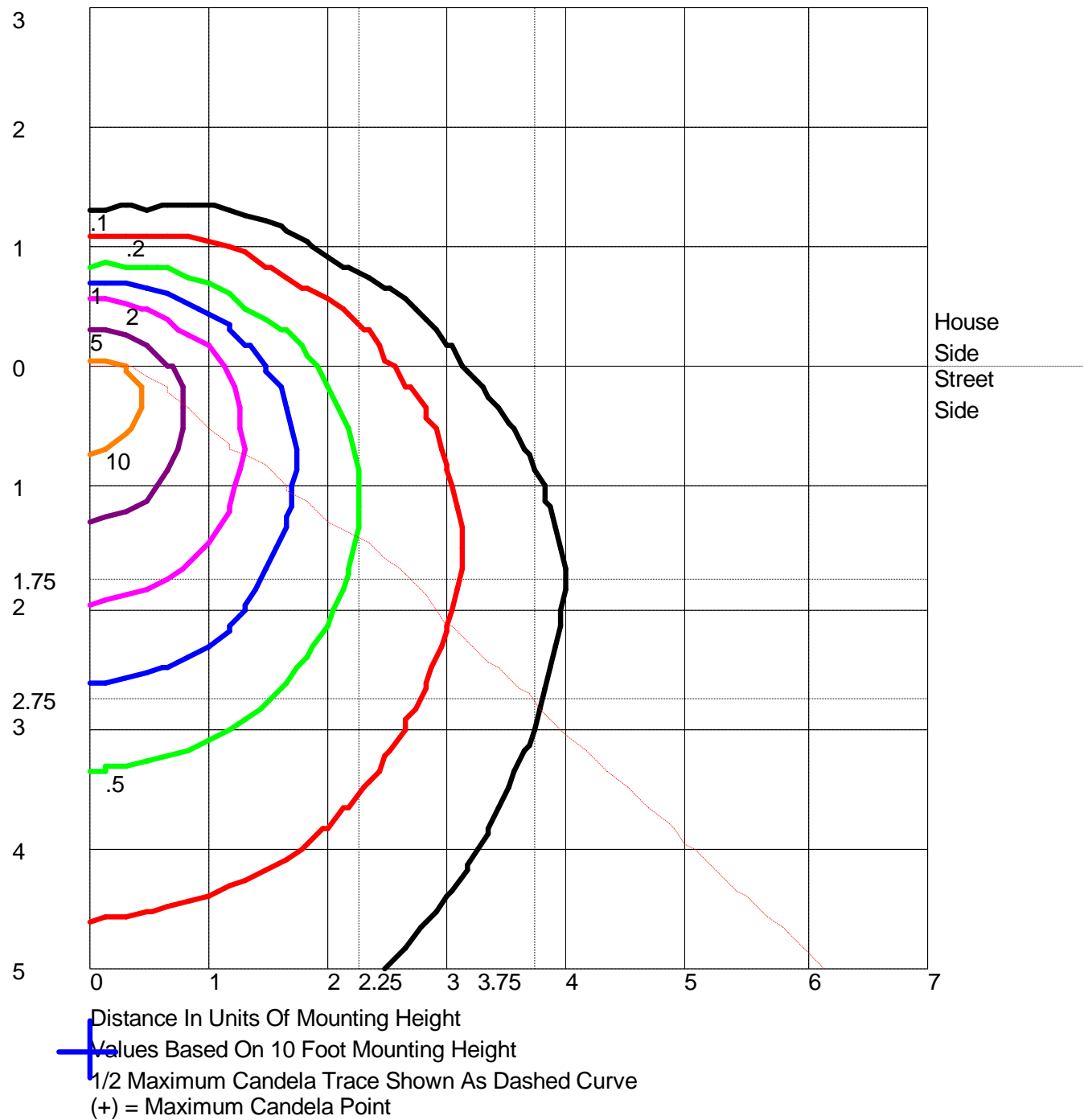


POLAR GRAPH

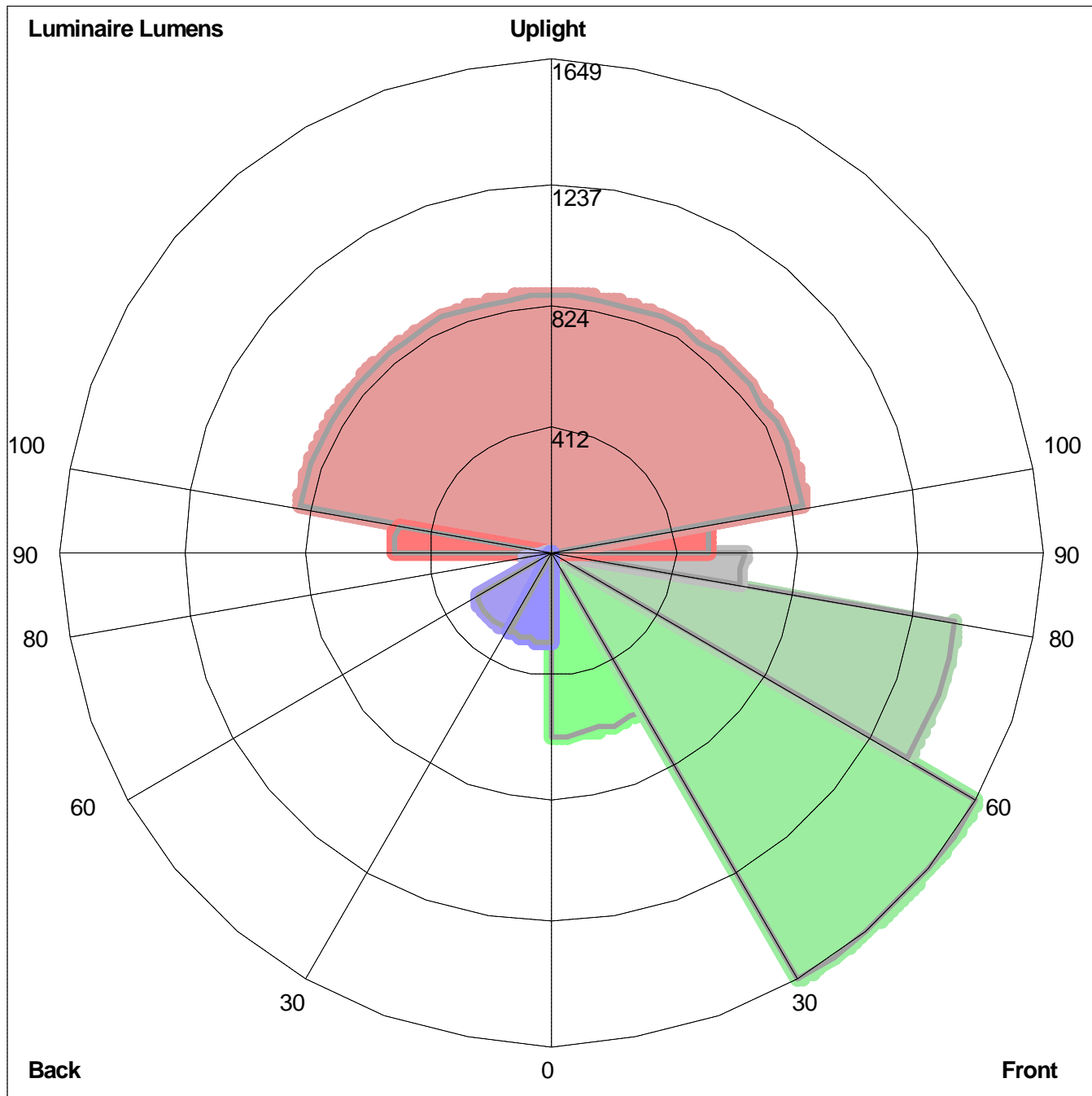


Maximum Candela = 2244.836 Located At Horizontal Angle = 360, Vertical Angle = 80  
# 1 - Vertical Plane Through Horizontal Angles (360 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (80) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=612.0, Medium=1648.8, High=1375.7, Very High=639.6  
Back: Low=298.9, Medium=295.4, High=86.3, Very High=19.9  
Uplight: Low=526.5, High=860.8

BUG Rating : B1-U4-G4