



## IES ROAD REPORT

PHOTOMETRIC FILENAME : SWPM-WB-LED-PL2-40.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST]DCL-150-070W-40K-8-3PC  
[TESTLAB]Standard-Tech Co., Ltd.  
[TESTDATE]2015-11-25  
[ISSUE DATE]2016-05-09  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMCAT]SWPM-WB-LED-PL2-40  
[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	6239
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	67.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.22
Maximum Candela	2200.82
Maximum Candela Angle	360H 80V
Maximum Candela (<90 Degrees Vertical)	2200.82
Maximum Candela Angle (<90 Degrees Vertical)	360H 80V
Maximum Candela At 90 Degrees Vertical	1871.74 (30.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	2200.82 (35.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : SWPM-WB-LED-PL2-40.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	600.0	N.A.	9.6
FM - Front-Medium (30-60)	1616.4	N.A.	25.9
FH - Front-High (60-80)	1348.8	N.A.	21.6
FVH - Front-Very High (80-90)	627.1	N.A.	10.1
BL - Back-Low (0-30)	293.0	N.A.	4.7
BM - Back-Medium (30-60)	289.6	N.A.	4.6
BH - Back-High (60-80)	84.6	N.A.	1.4
BVH - Back-Very High (80-90)	19.5	N.A.	0.3
UL - Uplight-Low (90-100)	516.2	N.A.	8.3
UH - Uplight-High (100-180)	843.9	N.A.	13.5
Total	6239.1	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>	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65
<b>2.5</b>	1263.33	1263.79	1264.26	1264.73	1265.20	1265.67	1266.14	1266.61	1267.08	1267.55
<b>5.0</b>	1358.01	1357.88	1357.76	1357.63	1357.51	1357.38	1357.26	1357.13	1357.01	1356.88
<b>7.5</b>	1449.33	1447.90	1446.48	1445.05	1443.63	1442.21	1440.78	1439.36	1437.93	1436.51
<b>10.0</b>	1444.82	1448.00	1451.18	1454.36	1457.54	1460.71	1463.89	1467.07	1470.25	1473.43
<b>12.5</b>	1524.10	1518.07	1512.04	1506.01	1499.98	1493.95	1487.92	1481.89	1475.86	1469.84
<b>15.0</b>	1673.63	1665.74	1657.84	1649.95	1642.05	1634.16	1626.26	1618.37	1610.47	1602.58
<b>17.5</b>	1617.19	1614.50	1611.81	1609.12	1606.43	1603.74	1601.05	1598.36	1595.67	1592.98
<b>20.0</b>	1592.43	1594.88	1597.33	1599.78	1602.23	1604.68	1607.13	1609.58	1612.03	1614.48
<b>22.5</b>	1629.04	1628.30	1627.55	1626.81	1626.07	1625.33	1624.58	1623.84	1623.10	1622.36
<b>25.0</b>	1726.31	1720.28	1714.24	1708.21	1702.18	1696.14	1690.11	1684.08	1678.04	1672.01
<b>27.5</b>	1569.74	1580.18	1590.62	1601.06	1611.50	1621.94	1632.38	1642.82	1653.26	1663.70
<b>30.0</b>	1697.15	1686.57	1675.99	1665.41	1654.83	1644.26	1633.68	1623.10	1612.52	1601.94
<b>32.5</b>	1728.21	1723.07	1717.92	1712.78	1707.64	1702.50	1697.35	1692.21	1687.07	1681.93
<b>35.0</b>	1874.10	1853.68	1833.27	1812.85	1792.43	1772.02	1751.60	1731.18	1710.77	1690.35
<b>37.5</b>	1790.43	1792.50	1794.57	1796.64	1798.71	1800.78	1802.85	1804.92	1806.99	1809.07
<b>40.0</b>	1779.57	1785.17	1790.76	1796.36	1801.95	1807.55	1813.14	1818.74	1824.33	1829.93
<b>42.5</b>	1970.85	1953.35	1935.85	1918.35	1900.85	1883.36	1865.86	1848.36	1830.86	1813.37
<b>45.0</b>	1996.63	1983.00	1969.36	1955.73	1942.10	1928.46	1914.83	1901.20	1887.56	1873.93
<b>47.5</b>	2055.15	2036.72	2018.30	1999.88	1981.46	1963.04	1944.62	1926.19	1907.77	1889.35
<b>50.0</b>	2076.18	2061.72	2047.26	2032.80	2018.34	2003.87	1989.41	1974.95	1960.49	1946.03
<b>52.5</b>	2011.68	2004.91	1998.15	1991.38	1984.61	1977.84	1971.08	1964.31	1957.54	1950.78
<b>55.0</b>	2180.19	2160.94	2141.68	2122.43	2103.18	2083.92	2064.67	2045.42	2026.16	2006.91
<b>57.5</b>	2079.65	2071.99	2064.33	2056.67	2049.01	2041.35	2033.69	2026.03	2018.37	2010.71
<b>60.0</b>	2054.47	2035.88	2017.29	1998.70	1980.11	1961.53	1942.94	1924.35	1905.76	1887.17
<b>62.5</b>	2079.44	2054.90	2030.36	2005.81	1981.27	1956.73	1932.19	1907.64	1883.10	1858.56
<b>65.0</b>	2131.63	2107.80	2083.96	2060.13	2036.30	2012.46	1988.63	1964.80	1940.96	1917.13
<b>67.5</b>	2186.03	2166.97	2147.92	2128.87	2109.81	2090.76	2071.71	2052.65	2033.60	2014.55
<b>70.0</b>	2142.79	2126.28	2109.78	2093.27	2076.76	2060.26	2043.75	2027.24	2010.74	1994.23
<b>72.5</b>	2135.30	2108.85	2082.40	2055.95	2029.50	2003.05	1976.60	1950.15	1923.70	1897.25
<b>75.0</b>	2017.12	1997.43	1977.74	1958.06	1938.37	1918.68	1898.99	1879.31	1859.62	1839.93
<b>77.5</b>	2031.58	2006.74	1981.89	1957.05	1932.20	1907.36	1882.51	1857.67	1832.82	1807.98
<b>80.0</b>	2200.82	2169.58	2138.33	2107.09	2075.85	2044.60	2013.36	1982.12	1950.87	1919.63
<b>82.5</b>	2065.08	2041.68	2018.27	1994.87	1971.47	1948.07	1924.66	1901.26	1877.86	1854.46
<b>85.0</b>	2026.13	2000.89	1975.65	1950.41	1925.17	1899.92	1874.68	1849.44	1824.20	1798.96
<b>87.5</b>	1919.53	1894.24	1868.95	1843.66	1818.37	1793.08	1767.79	1742.50	1717.21	1691.92
<b>90.0</b>	1871.74	1844.98	1818.22	1791.45	1764.69	1737.93	1711.17	1684.40	1657.64	1630.88
<b>92.5</b>	1752.36	1735.18	1718.00	1700.83	1683.65	1666.47	1649.29	1632.12	1614.94	1597.76
<b>95.0</b>	1662.94	1645.71	1628.47	1611.24	1594.01	1576.77	1559.54	1542.31	1525.07	1507.84
<b>97.5</b>	1552.29	1531.88	1511.47	1491.06	1470.65	1450.24	1429.83	1409.42	1389.01	1368.61
<b>100.0</b>	1497.68	1474.87	1452.07	1429.26	1406.46	1383.65	1360.85	1338.04	1315.24	1292.43
<b>102.5</b>	1411.93	1394.23	1376.53	1358.83	1341.13	1323.43	1305.73	1288.03	1270.33	1252.63
<b>105.0</b>	1266.53	1255.33	1244.12	1232.92	1221.72	1210.51	1199.31	1188.11	1176.90	1165.70
<b>107.5</b>	1063.92	1067.56	1071.20	1074.84	1078.48	1082.12	1085.76	1089.40	1093.04	1096.68
<b>110.0</b>	869.55	883.96	898.36	912.77	927.18	941.58	955.99	970.40	984.80	999.21
<b>112.5</b>	798.84	809.60	820.36	831.12	841.88	852.64	863.40	874.16	884.92	895.68
<b>115.0</b>	766.17	771.40	776.63	781.85	787.08	792.31	797.54	802.76	807.99	813.22
<b>117.5</b>	673.43	681.08	688.73	696.38	704.03	711.68	719.34	726.99	734.64	742.29
<b>120.0</b>	589.62	596.52	603.41	610.31	617.21	624.10	631.00	637.90	644.79	651.69
<b>122.5</b>	520.67	525.38	530.10	534.81	539.53	544.25	548.96	553.68	558.39	563.11
<b>125.0</b>	465.61	466.77	467.93	469.09	470.25	471.41	472.57	473.73	474.89	476.05
<b>127.5</b>	405.69	405.49	405.30	405.11	404.92	404.73	404.54	404.35	404.16	403.97
<b>130.0</b>	354.30	352.89	351.48	350.08	348.67	347.26	345.85	344.45	343.04	341.63

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : SWPM-WB-LED-PL2-40.IES**

**CANDELA TABULATION - (Cont.)**

132.5	305.12	303.52	301.92	300.32	298.72	297.12	295.53	293.93	292.33	290.73
135.0	260.32	258.82	257.32	255.83	254.33	252.83	251.33	249.84	248.34	246.84
137.5	224.47	223.33	222.19	221.05	219.91	218.77	217.63	216.49	215.35	214.21
140.0	190.56	189.89	189.23	188.56	187.89	187.23	186.56	185.89	185.23	184.56
142.5	165.78	165.10	164.43	163.75	163.08	162.40	161.72	161.05	160.37	159.70
145.0	144.02	143.01	142.01	141.00	139.99	138.99	137.98	136.97	135.97	134.96
147.5	130.57	129.16	127.76	126.35	124.94	123.54	122.13	120.72	119.32	117.91
150.0	115.98	114.31	112.64	110.97	109.30	107.63	105.96	104.29	102.62	100.95
152.5	98.08	96.28	94.49	92.69	90.90	89.10	87.31	85.51	83.72	81.92
155.0	77.05	75.35	73.64	71.94	70.24	68.53	66.83	65.13	63.42	61.72
157.5	54.84	53.33	51.83	50.32	48.81	47.30	45.80	44.29	42.78	41.28
160.0	30.04	29.14	28.24	27.33	26.43	25.53	24.63	23.72	22.82	21.92
162.5	14.37	13.86	13.35	12.84	12.33	11.83	11.32	10.81	10.30	9.79
165.0	4.23	3.92	3.62	3.31	3.01	2.70	2.40	2.09	1.79	1.48
167.5	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.29
170.0	1.23	1.26	1.29	1.32	1.35	1.39	1.42	1.45	1.48	1.51
172.5	1.41	1.45	1.50	1.54	1.59	1.63	1.68	1.72	1.77	1.81
175.0	1.82	1.84	1.85	1.87	1.89	1.90	1.92	1.94	1.95	1.97
177.5	2.02	2.05	2.08	2.11	2.14	2.17	2.20	2.23	2.26	2.30
180.0	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00

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

	<u>25.0</u>	<u>27.5</u>	<u>30.0</u>	<u>32.5</u>	<u>35.0</u>	<u>37.5</u>	<u>40.0</u>	<u>42.5</u>	<u>45.0</u>	<u>47.5</u>
0.0	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65
2.5	1266.52	1265.49	1264.46	1263.43	1262.40	1261.37	1260.34	1259.31	1258.29	1254.92
5.0	1347.81	1338.73	1329.66	1320.58	1311.51	1302.43	1293.36	1284.28	1275.21	1272.11
7.5	1427.91	1419.30	1410.70	1402.10	1393.49	1384.89	1376.29	1367.68	1359.08	1350.35
10.0	1470.35	1467.27	1464.20	1461.12	1458.04	1454.96	1451.89	1448.81	1445.73	1430.29
12.5	1469.14	1468.44	1467.74	1467.04	1466.34	1465.64	1464.94	1464.24	1463.54	1449.56
15.0	1584.55	1566.51	1548.48	1530.45	1512.41	1494.38	1476.35	1458.31	1440.28	1433.04
17.5	1580.51	1568.05	1555.58	1543.11	1530.65	1518.18	1505.71	1493.25	1480.78	1472.61
20.0	1609.58	1604.67	1599.77	1594.87	1589.96	1585.06	1580.16	1575.25	1570.35	1546.18
22.5	1614.00	1605.64	1597.28	1588.92	1580.56	1572.20	1563.84	1555.48	1547.12	1523.83
25.0	1653.11	1634.22	1615.32	1596.42	1577.53	1558.63	1539.73	1520.84	1501.94	1480.41
27.5	1644.54	1625.37	1606.21	1587.04	1567.88	1548.71	1529.55	1510.38	1491.22	1471.78
30.0	1591.42	1580.90	1570.38	1559.86	1549.34	1538.82	1528.30	1517.78	1507.26	1485.73
32.5	1670.47	1659.02	1647.57	1636.12	1624.67	1613.22	1601.76	1590.31	1578.86	1541.84
35.0	1666.67	1642.98	1619.30	1595.61	1571.93	1548.24	1524.56	1500.87	1477.19	1448.16
37.5	1764.03	1718.99	1673.96	1628.92	1583.88	1538.85	1493.81	1448.77	1403.74	1376.57
40.0	1783.78	1737.63	1691.48	1645.33	1599.19	1553.04	1506.89	1460.74	1414.59	1387.53
42.5	1767.94	1722.52	1677.10	1631.67	1586.25	1540.83	1495.41	1449.98	1404.56	1372.13
45.0	1828.71	1783.48	1738.26	1693.04	1647.81	1602.59	1557.37	1512.14	1466.92	1425.88
47.5	1835.67	1782.00	1728.32	1674.65	1620.97	1567.30	1513.62	1459.95	1406.27	1367.10
50.0	1880.96	1815.89	1750.82	1685.75	1620.69	1555.62	1490.55	1425.48	1360.41	1320.09
52.5	1886.16	1821.55	1756.93	1692.32	1627.71	1563.09	1498.48	1433.86	1369.25	1327.36
55.0	1937.26	1867.61	1797.95	1728.30	1658.65	1589.00	1519.34	1449.69	1380.04	1335.49
57.5	1943.58	1876.45	1809.32	1742.19	1675.06	1607.93	1540.80	1473.67	1406.54	1360.57
60.0	1838.39	1789.62	1740.84	1692.07	1643.29	1594.52	1545.74	1496.97	1448.19	1394.53
62.5	1806.99	1755.42	1703.86	1652.29	1600.72	1549.15	1497.58	1446.01	1394.45	1340.07
65.0	1855.70	1794.27	1732.85	1671.42	1609.99	1548.56	1487.14	1425.71	1364.28	1315.31
67.5	1940.31	1866.07	1791.84	1717.60	1643.37	1569.13	1494.90	1420.66	1346.43	1297.77
70.0	1927.44	1860.66	1793.87	1727.09	1660.30	1593.52	1526.73	1459.95	1393.16	1336.27
72.5	1843.97	1790.70	1737.42	1684.15	1630.87	1577.60	1524.32	1471.05	1417.77	1353.05
75.0	1778.16	1716.39	1654.62	1592.85	1531.07	1469.30	1407.53	1345.76	1283.99	1235.06
77.5	1746.78	1685.58	1624.38	1563.18	1501.98	1440.78	1379.58	1318.38	1257.18	1211.05

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : SWPM-WB-LED-PL2-40.IES**

**CANDELA TABULATION - (Cont.)**

<b>80.0</b>	1846.40	1773.17	1699.93	1626.70	1553.47	1480.24	1407.00	1333.77	1260.54	1205.43
<b>82.5</b>	1787.34	1720.22	1653.10	1585.98	1518.86	1451.74	1384.62	1317.50	1250.38	1188.95
<b>85.0</b>	1733.56	1668.17	1602.77	1537.38	1471.98	1406.59	1341.19	1275.80	1210.40	1149.54
<b>87.5</b>	1628.99	1566.07	1503.15	1440.23	1377.31	1314.39	1251.46	1188.54	1125.62	1070.68
<b>90.0</b>	1569.75	1508.62	1447.49	1386.36	1325.23	1264.10	1202.97	1141.84	1080.71	1024.62
<b>92.5</b>	1532.79	1467.81	1402.84	1337.86	1272.89	1207.91	1142.94	1077.96	1012.99	957.59
<b>95.0</b>	1447.03	1386.21	1325.40	1264.58	1203.77	1142.95	1082.14	1021.32	960.51	905.25
<b>97.5</b>	1317.67	1266.73	1215.79	1164.85	1113.91	1062.97	1012.03	961.09	910.15	855.65
<b>100.0</b>	1243.77	1195.11	1146.46	1097.80	1049.14	1000.48	951.83	903.17	854.51	801.68
<b>102.5</b>	1200.28	1147.93	1095.58	1043.23	990.88	938.53	886.18	833.83	781.49	731.78
<b>105.0</b>	1114.03	1062.35	1010.68	959.01	907.33	855.66	803.99	752.31	700.64	656.16
<b>107.5</b>	1049.18	1001.68	954.18	906.68	859.19	811.69	764.19	716.69	669.19	623.60
<b>110.0</b>	956.29	913.37	870.45	827.53	784.61	741.69	698.77	655.85	612.93	570.07
<b>112.5</b>	857.92	820.17	782.42	744.67	706.92	669.17	631.42	593.67	555.92	516.41
<b>115.0</b>	778.18	743.14	708.10	673.06	638.02	602.98	567.94	532.90	497.86	462.47
<b>117.5</b>	708.70	675.11	641.52	607.93	574.33	540.74	507.15	473.56	439.97	408.95
<b>120.0</b>	622.63	593.57	564.52	535.46	506.40	477.34	448.29	419.23	390.17	362.79
<b>122.5</b>	538.65	514.18	489.72	465.25	440.79	416.33	391.86	367.40	342.94	319.15
<b>125.0</b>	456.21	436.38	416.54	396.71	376.87	357.04	337.20	317.37	297.53	277.56
<b>127.5</b>	387.87	371.76	355.66	339.55	323.45	307.34	291.24	275.13	259.03	242.20
<b>130.0</b>	328.79	315.95	303.11	290.27	277.43	264.59	251.75	238.91	226.07	211.63
<b>132.5</b>	280.65	270.56	260.48	250.39	240.31	230.23	220.14	210.06	199.98	187.08
<b>135.0</b>	239.10	231.35	223.61	215.87	208.12	200.38	192.64	184.89	177.15	165.51
<b>137.5</b>	207.96	201.71	195.46	189.21	182.96	176.71	170.46	164.21	157.97	147.21
<b>140.0</b>	179.77	174.98	170.18	165.39	160.60	155.81	151.01	146.22	141.43	131.32
<b>142.5</b>	155.63	151.56	147.49	143.42	139.35	135.29	131.22	127.15	123.08	113.72
<b>145.0</b>	131.48	128.00	124.52	121.04	117.55	114.07	110.59	107.11	103.63	95.34
<b>147.5</b>	114.20	110.50	106.79	103.09	99.38	95.67	91.97	88.26	84.56	77.40
<b>150.0</b>	96.91	92.88	88.84	84.81	80.77	76.74	72.70	68.67	64.63	59.00
<b>152.5</b>	77.88	73.85	69.81	65.77	61.74	57.70	53.66	49.63	45.59	41.64
<b>155.0</b>	57.98	54.24	50.50	46.76	43.01	39.27	35.53	31.79	28.05	25.73
<b>157.5</b>	38.32	35.37	32.42	29.46	26.51	23.56	20.61	17.65	14.70	13.60
<b>160.0</b>	20.00	18.08	16.16	14.24	12.33	10.41	8.49	6.57	4.65	4.46
<b>162.5</b>	8.86	7.94	7.01	6.09	5.16	4.24	3.31	2.39	1.46	1.52
<b>165.0</b>	1.47	1.45	1.44	1.43	1.41	1.40	1.39	1.37	1.36	1.40
<b>167.5</b>	1.32	1.35	1.38	1.42	1.45	1.48	1.51	1.55	1.58	1.63
<b>170.0</b>	1.57	1.62	1.68	1.73	1.79	1.84	1.90	1.95	2.01	2.02
<b>172.5</b>	1.85	1.90	1.94	1.99	2.03	2.08	2.12	2.17	2.21	2.24
<b>175.0</b>	2.05	2.13	2.20	2.28	2.36	2.44	2.51	2.59	2.67	2.69
<b>177.5</b>	2.35	2.41	2.47	2.53	2.59	2.65	2.70	2.76	2.82	2.83
<b>180.0</b>	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00

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

	<b>50.0</b>	<b>52.5</b>	<b>55.0</b>	<b>57.5</b>	<b>60.0</b>	<b>62.5</b>	<b>65.0</b>	<b>67.5</b>	<b>70.0</b>	<b>72.5</b>
<b>0.0</b>	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65
<b>2.5</b>	1251.56	1248.20	1244.83	1241.47	1238.11	1234.74	1231.38	1228.02	1224.21	1220.41
<b>5.0</b>	1269.02	1265.92	1262.82	1259.73	1256.63	1253.53	1250.44	1247.34	1240.89	1234.44
<b>7.5</b>	1341.62	1332.90	1324.17	1315.44	1306.71	1297.98	1289.25	1280.53	1270.70	1260.87
<b>10.0</b>	1414.84	1399.40	1383.95	1368.51	1353.06	1337.62	1322.17	1306.73	1292.61	1278.49
<b>12.5</b>	1435.58	1421.60	1407.62	1393.63	1379.65	1365.67	1351.69	1337.71	1318.17	1298.63
<b>15.0</b>	1425.80	1418.55	1411.31	1404.07	1396.83	1389.58	1382.34	1375.10	1352.08	1329.05
<b>17.5</b>	1464.43	1456.26	1448.09	1439.91	1431.74	1423.57	1415.39	1407.22	1376.23	1345.24
<b>20.0</b>	1522.01	1497.84	1473.67	1449.51	1425.34	1401.17	1377.00	1352.83	1324.89	1296.94
<b>22.5</b>	1500.55	1477.26	1453.98	1430.70	1407.41	1384.13	1360.84	1337.56	1307.27	1276.97
<b>25.0</b>	1458.88	1437.35	1415.82	1394.28	1372.75	1351.22	1329.69	1308.16	1276.72	1245.29

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : SWPM-WB-LED-PL2-40.IES**

**CANDELA TABULATION - (Cont.)**

27.5	1452.35	1432.92	1413.49	1394.06	1374.63	1355.20	1335.77	1316.34	1281.32	1246.30
30.0	1464.20	1442.67	1421.14	1399.60	1378.07	1356.54	1335.01	1313.48	1272.86	1232.24
32.5	1504.82	1467.80	1430.78	1393.75	1356.73	1319.71	1282.69	1245.67	1208.34	1171.01
35.0	1419.13	1390.10	1361.07	1332.03	1303.00	1273.97	1244.94	1215.91	1175.11	1134.31
37.5	1349.40	1322.24	1295.07	1267.90	1240.74	1213.57	1186.41	1159.24	1121.20	1083.15
40.0	1360.47	1333.41	1306.35	1279.29	1252.23	1225.17	1198.11	1171.05	1130.09	1089.13
42.5	1339.71	1307.28	1274.85	1242.43	1210.00	1177.57	1145.15	1112.72	1074.49	1036.25
45.0	1384.84	1343.80	1302.76	1261.71	1220.67	1179.63	1138.59	1097.55	1056.93	1016.30
47.5	1327.92	1288.75	1249.58	1210.41	1171.23	1132.06	1092.89	1053.72	1014.29	974.87
50.0	1279.76	1239.44	1199.12	1158.79	1118.47	1078.15	1037.82	997.50	960.16	922.82
52.5	1285.47	1243.58	1201.69	1159.81	1117.92	1076.03	1034.14	992.25	949.62	906.99
55.0	1290.94	1246.39	1201.84	1157.28	1112.73	1068.18	1023.63	979.08	934.36	889.65
57.5	1314.59	1268.62	1222.65	1176.68	1130.70	1084.73	1038.76	992.79	944.01	895.24
60.0	1340.87	1287.20	1233.54	1179.88	1126.22	1072.55	1018.89	965.23	915.66	866.08
62.5	1285.70	1231.32	1176.95	1122.57	1068.20	1013.82	959.45	905.07	857.86	810.65
65.0	1266.34	1217.36	1168.39	1119.42	1070.45	1021.47	972.50	923.53	870.91	818.30
67.5	1249.12	1200.47	1151.82	1103.17	1054.52	1005.86	957.21	908.56	853.32	798.07
70.0	1279.38	1222.49	1165.60	1108.71	1051.82	994.93	938.04	881.15	825.91	770.67
72.5	1288.32	1223.60	1158.87	1094.15	1029.42	964.70	899.97	835.25	780.33	725.42
75.0	1186.13	1137.20	1088.27	1039.35	990.42	941.49	892.56	843.63	783.32	723.00
77.5	1164.91	1118.78	1072.65	1026.52	980.38	934.25	888.12	841.99	776.85	711.72
80.0	1150.32	1095.22	1040.11	985.00	929.89	874.79	819.68	764.57	703.07	641.58
82.5	1127.53	1066.10	1004.68	943.26	881.83	820.41	758.98	697.56	639.39	581.23
85.0	1088.68	1027.82	966.96	906.10	845.24	784.38	723.52	662.66	605.10	547.54
87.5	1015.74	960.80	905.86	850.92	795.98	741.04	686.10	631.17	574.11	517.06
90.0	968.54	912.45	856.37	800.28	744.20	688.11	632.03	575.94	522.63	469.32
92.5	902.19	846.79	791.39	735.99	680.59	625.19	569.79	514.40	466.25	418.10
95.0	849.99	794.73	739.47	684.20	628.94	573.68	518.42	463.16	419.57	375.98
97.5	801.16	746.66	692.17	637.67	583.17	528.68	474.18	419.69	380.50	341.32
100.0	748.85	696.01	643.18	590.35	537.52	484.68	431.85	379.02	344.26	309.50
102.5	682.07	632.36	582.65	532.94	483.24	433.53	383.82	334.11	304.37	274.64
105.0	611.68	567.20	522.72	478.25	433.77	389.29	344.81	300.33	274.37	248.42
107.5	578.00	532.41	486.82	441.23	395.63	350.04	304.45	258.86	237.45	216.04
110.0	527.21	484.36	441.50	398.64	355.78	312.93	270.07	227.21	209.22	191.23
112.5	476.90	437.40	397.89	358.38	318.88	279.37	239.87	200.36	185.09	169.81
115.0	427.08	391.69	356.30	320.92	285.53	250.14	214.75	179.36	166.17	152.99
117.5	377.93	346.92	315.90	284.88	253.86	222.85	191.83	160.81	149.30	137.78
120.0	335.41	308.03	280.65	253.26	225.88	198.50	171.12	143.74	133.76	123.77
122.5	295.37	271.58	247.80	224.01	200.23	176.44	152.66	128.88	120.05	111.23
125.0	257.59	237.62	217.65	197.69	177.72	157.75	137.78	117.81	109.70	101.60
127.5	225.36	208.53	191.70	174.87	158.03	141.20	124.37	107.54	100.11	92.69
130.0	197.19	182.75	168.31	153.87	139.43	124.99	110.55	96.11	89.44	82.77
132.5	174.18	161.28	148.38	135.48	122.58	109.68	96.78	83.89	78.06	72.24
135.0	153.87	142.24	130.60	118.96	107.32	95.69	84.05	72.41	67.41	62.40
137.5	136.46	125.71	114.95	104.20	93.45	82.70	71.94	61.19	57.02	52.85
140.0	121.21	111.11	101.00	90.89	80.78	70.68	60.57	50.46	47.09	43.71
142.5	104.36	94.99	85.63	76.27	66.91	57.54	48.18	38.82	36.33	33.84
145.0	87.04	78.75	70.45	62.16	53.86	45.57	37.27	28.98	27.23	25.48
147.5	70.24	63.08	55.92	48.75	41.60	34.44	27.28	20.12	19.04	17.97
150.0	53.37	47.73	42.10	36.47	30.84	25.20	19.57	13.94	13.27	12.59
152.5	37.70	33.75	29.81	25.86	21.92	17.97	14.03	10.08	9.59	9.11
155.0	23.41	21.08	18.76	16.44	14.12	11.79	9.47	7.15	6.80	6.44
157.5	12.50	11.40	10.29	9.19	8.09	6.99	5.89	4.79	4.57	4.36
160.0	4.27	4.08	3.89	3.69	3.50	3.31	3.12	2.93	2.83	2.72
162.5	1.57	1.63	1.69	1.74	1.80	1.86	1.91	1.97	1.98	1.98
165.0	1.44	1.48	1.52	1.55	1.59	1.63	1.67	1.71	1.75	1.78

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : SWPM-WB-LED-PL2-40.IES**

**CANDELA TABULATION - (Cont.)**

<b>167.5</b>	1.68	1.72	1.77	1.82	1.87	1.91	1.96	2.01	2.08	2.14
<b>170.0</b>	2.03	2.04	2.05	2.07	2.08	2.09	2.10	2.11	2.18	2.25
<b>172.5</b>	2.27	2.30	2.33	2.36	2.39	2.42	2.45	2.49	2.52	2.56
<b>175.0</b>	2.70	2.72	2.74	2.75	2.77	2.79	2.80	2.82	2.83	2.84
<b>177.5</b>	2.84	2.85	2.86	2.88	2.89	2.90	2.91	2.92	2.92	2.92
<b>180.0</b>	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00

<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>	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65
<b>2.5</b>	1216.60	1212.80	1208.99	1205.19	1201.38	1197.58	1193.77	1188.63	1183.48	1178.34
<b>5.0</b>	1228.00	1221.55	1215.10	1208.65	1202.21	1195.76	1189.31	1178.72	1168.12	1157.53
<b>7.5</b>	1251.04	1241.22	1231.39	1221.56	1211.73	1201.91	1192.08	1177.37	1162.66	1147.95
<b>10.0</b>	1264.37	1250.25	1236.12	1222.00	1207.88	1193.76	1179.64	1159.56	1139.47	1119.39
<b>12.5</b>	1279.09	1259.55	1240.02	1220.48	1200.94	1181.40	1161.86	1139.01	1116.16	1093.31
<b>15.0</b>	1306.03	1283.00	1259.98	1236.95	1213.93	1190.90	1167.88	1139.27	1110.67	1082.06
<b>17.5</b>	1314.26	1283.27	1252.28	1221.29	1190.31	1159.32	1128.33	1098.66	1068.99	1039.32
<b>20.0</b>	1269.00	1241.06	1213.11	1185.17	1157.23	1129.28	1101.34	1068.57	1035.80	1003.04
<b>22.5</b>	1246.68	1216.39	1186.09	1155.80	1125.51	1095.21	1064.92	1029.79	994.66	959.53
<b>25.0</b>	1213.85	1182.41	1150.98	1119.54	1088.10	1056.67	1025.23	989.10	952.98	916.85
<b>27.5</b>	1211.28	1176.26	1141.24	1106.22	1071.20	1036.18	1001.16	963.20	925.24	887.28
<b>30.0</b>	1191.62	1151.00	1110.38	1069.76	1029.14	988.52	947.90	910.25	872.60	834.95
<b>32.5</b>	1133.68	1096.35	1059.02	1021.69	984.36	947.03	909.71	871.36	833.01	794.66
<b>35.0</b>	1093.51	1052.71	1011.92	971.12	930.32	889.52	848.72	812.98	777.24	741.49
<b>37.5</b>	1045.11	1007.06	969.02	930.98	892.93	854.89	816.85	779.24	741.63	704.02
<b>40.0</b>	1048.18	1007.22	966.26	925.30	884.35	843.39	802.43	761.32	720.21	679.10
<b>42.5</b>	998.02	959.79	921.55	883.32	845.09	806.85	768.62	726.62	684.62	642.62
<b>45.0</b>	975.68	935.06	894.43	853.81	813.19	772.56	731.94	690.27	648.60	606.94
<b>47.5</b>	935.45	896.03	856.61	817.19	777.76	738.34	698.92	656.61	614.30	572.00
<b>50.0</b>	885.48	848.14	810.81	773.47	736.13	698.79	661.45	619.50	577.54	535.59
<b>52.5</b>	864.36	821.73	779.11	736.48	693.85	651.22	608.59	568.91	529.22	489.54
<b>55.0</b>	844.93	800.21	755.50	710.78	666.06	621.35	576.63	537.26	497.88	458.51
<b>57.5</b>	846.47	797.70	748.93	700.16	651.39	602.62	553.85	514.68	475.52	436.36
<b>60.0</b>	816.51	766.93	717.36	667.78	618.21	568.63	519.06	481.74	444.43	407.11
<b>62.5</b>	763.44	716.22	669.01	621.80	574.59	527.38	480.17	445.27	410.38	375.49
<b>65.0</b>	765.68	713.07	660.45	607.84	555.22	502.61	449.99	416.29	382.59	348.89
<b>67.5</b>	742.83	687.58	632.34	577.10	521.85	466.61	411.37	380.01	348.65	317.30
<b>70.0</b>	715.44	660.20	604.96	549.72	494.49	439.25	384.01	354.05	324.09	294.12
<b>72.5</b>	670.50	615.58	560.67	505.75	450.83	395.92	341.00	314.45	287.90	261.35
<b>75.0</b>	662.69	602.38	542.06	481.75	421.44	361.12	300.81	277.50	254.20	230.89
<b>77.5</b>	646.59	581.46	516.33	451.20	386.07	320.94	255.81	236.44	217.07	197.70
<b>80.0</b>	580.08	518.58	457.09	395.59	334.09	272.60	211.10	195.87	180.65	165.42
<b>82.5</b>	523.06	464.89	406.73	348.56	290.39	232.23	174.06	162.30	150.54	138.78
<b>85.0</b>	489.97	432.41	374.85	317.29	259.72	202.16	144.60	135.64	126.67	117.71
<b>87.5</b>	460.00	402.95	345.90	288.84	231.79	174.73	117.68	111.31	104.95	98.58
<b>90.0</b>	416.02	362.71	309.40	256.09	202.79	149.48	96.17	91.96	87.75	83.53
<b>92.5</b>	369.96	321.81	273.66	225.52	177.37	129.22	81.08	78.20	75.33	72.45
<b>95.0</b>	332.39	288.80	245.20	201.61	158.02	114.43	70.84	68.69	66.54	64.39
<b>97.5</b>	302.14	262.95	223.77	184.59	145.40	106.22	67.04	64.85	62.67	60.48
<b>100.0</b>	274.74	239.98	205.22	170.46	135.70	100.94	66.18	63.60	61.03	58.45
<b>102.5</b>	244.90	215.16	185.43	155.69	125.95	96.22	66.48	63.42	60.35	57.29
<b>105.0</b>	222.46	196.50	170.55	144.59	118.63	92.68	66.72	63.17	59.62	56.08
<b>107.5</b>	194.64	173.23	151.82	130.42	109.01	87.60	66.20	62.27	58.35	54.42
<b>110.0</b>	173.23	155.24	137.25	119.26	101.26	83.27	65.28	61.09	56.89	52.70
<b>112.5</b>	154.54	139.26	123.99	108.71	93.44	78.16	62.89	58.59	54.30	50.00

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : SWPM-WB-LED-PL2-40.IES**

**CANDELA TABULATION - (Cont.)**

115.0	139.80	126.61	113.43	100.24	87.05	73.87	60.68	56.34	52.00	47.65
117.5	126.27	114.75	103.24	91.72	80.21	68.69	57.18	52.97	48.77	44.57
120.0	113.79	103.81	93.82	83.84	73.86	63.87	53.89	49.82	45.76	41.69
122.5	102.40	93.58	84.76	75.93	67.11	58.28	49.46	45.71	41.96	38.21
125.0	93.49	85.38	77.28	69.17	61.06	52.96	44.85	41.44	38.04	34.63
127.5	85.26	77.84	70.41	62.99	55.56	48.14	40.71	37.57	34.43	31.29
130.0	76.11	69.44	62.77	56.10	49.44	42.77	36.10	33.34	30.58	27.83
132.5	66.42	60.59	54.77	48.95	43.13	37.30	31.48	29.07	26.65	24.24
135.0	57.40	52.39	47.39	42.38	37.38	32.37	27.37	25.28	23.19	21.11
137.5	48.69	44.52	40.35	36.18	32.02	27.85	23.68	21.89	20.10	18.30
140.0	40.34	36.96	33.59	30.21	26.84	23.46	20.09	18.60	17.12	15.63
142.5	31.36	28.87	26.38	23.89	21.41	18.92	16.43	15.28	14.12	12.97
145.0	23.74	21.99	20.24	18.49	16.75	15.00	13.25	12.37	11.50	10.62
147.5	16.89	15.82	14.74	13.67	12.59	11.52	10.44	9.79	9.13	8.48
150.0	11.92	11.25	10.57	9.90	9.23	8.55	7.88	7.42	6.96	6.49
152.5	8.62	8.14	7.65	7.16	6.68	6.19	5.71	5.43	5.16	4.88
155.0	6.09	5.74	5.38	5.03	4.68	4.32	3.97	3.83	3.69	3.56
157.5	4.14	3.93	3.71	3.50	3.28	3.07	2.85	2.78	2.70	2.63
160.0	2.62	2.51	2.41	2.30	2.20	2.09	1.99	1.98	1.98	1.97
162.5	1.99	1.99	2.00	2.00	2.01	2.01	2.02	2.00	1.98	1.97
165.0	1.82	1.86	1.89	1.93	1.97	2.00	2.04	2.05	2.06	2.08
167.5	2.21	2.28	2.34	2.41	2.48	2.54	2.61	2.63	2.65	2.67
170.0	2.32	2.39	2.45	2.52	2.59	2.66	2.73	2.74	2.75	2.76
172.5	2.60	2.64	2.68	2.72	2.76	2.80	2.84	2.84	2.84	2.84
175.0	2.84	2.85	2.86	2.87	2.87	2.88	2.89	2.89	2.88	2.88
177.5	2.92	2.92	2.93	2.93	2.93	2.93	2.93	2.92	2.92	2.91
180.0	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00

**Vert. Horizontal Angles**  
**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	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65
2.5	1173.20	1168.06	1162.91	1157.77	1152.63	1147.49	1144.13	1140.78	1137.43	1134.07
5.0	1146.94	1136.34	1125.75	1115.16	1104.56	1093.97	1083.78	1073.59	1063.41	1053.22
7.5	1133.24	1118.53	1103.82	1089.11	1074.40	1059.69	1044.20	1028.72	1013.23	997.75
10.0	1099.30	1079.22	1059.13	1039.05	1018.96	998.88	983.67	968.47	953.26	938.05
12.5	1070.46	1047.60	1024.75	1001.90	979.05	956.20	937.72	919.23	900.75	882.27
15.0	1053.46	1024.85	996.25	967.64	939.04	910.43	889.99	869.55	849.11	828.67
17.5	1009.65	979.99	950.32	920.65	890.98	861.31	840.97	820.64	800.30	779.97
20.0	970.27	937.50	904.73	871.97	839.20	806.43	788.25	770.07	751.88	733.70
22.5	924.40	889.26	854.13	819.00	783.87	748.74	732.01	715.28	698.55	681.82
25.0	880.72	844.60	808.47	772.34	736.22	700.09	683.62	667.15	650.68	634.21
27.5	849.32	811.36	773.40	735.44	697.48	659.52	641.92	624.32	606.72	589.11
30.0	797.30	759.66	722.01	684.36	646.71	609.06	591.18	573.30	555.43	537.55
32.5	756.31	717.97	679.62	641.27	602.92	564.58	546.13	527.68	509.24	490.79
35.0	705.75	670.01	634.27	598.52	562.78	527.04	507.00	486.96	466.92	446.88
37.5	666.41	628.80	591.20	553.59	515.98	478.37	458.65	438.93	419.21	399.49
40.0	637.99	596.89	555.78	514.67	473.56	432.45	412.75	393.05	373.34	353.64
42.5	600.62	558.62	516.62	474.62	432.62	390.62	371.37	352.13	332.88	313.64
45.0	565.27	523.60	481.93	440.27	398.60	356.93	337.75	318.57	299.39	280.21
47.5	529.69	487.38	445.07	402.77	360.46	318.15	300.25	282.35	264.45	246.54
50.0	493.64	451.68	409.73	367.78	325.82	283.87	267.36	250.86	234.35	217.85
52.5	449.85	410.17	370.48	330.80	291.11	251.43	237.00	222.57	208.14	193.70
55.0	419.14	379.76	340.39	301.02	261.64	222.27	209.93	197.60	185.26	172.92
57.5	397.19	358.03	318.87	279.71	240.54	201.38	189.97	178.57	167.16	155.75
60.0	369.80	332.48	295.17	257.85	220.54	183.22	172.82	162.43	152.03	141.63



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : SWPM-WB-LED-PL2-40.IES**

**CANDELA TABULATION - (Cont.)**

62.5	340.60	305.71	270.82	235.93	201.04	166.15	156.55	146.95	137.34	127.74
65.0	315.19	281.50	247.80	214.10	180.40	146.70	138.04	129.39	120.73	112.07
67.5	285.94	254.59	223.23	191.88	160.52	129.17	121.27	113.37	105.48	97.58
70.0	264.16	234.20	204.24	174.27	144.31	114.35	106.90	99.44	91.99	84.53
72.5	234.79	208.24	181.69	155.14	128.59	102.04	94.91	87.78	80.66	73.53
75.0	207.59	184.28	160.98	137.67	114.37	91.06	84.09	77.12	70.15	63.18
77.5	178.33	158.97	139.60	120.23	100.86	81.50	75.29	69.09	62.88	56.68
80.0	150.19	134.97	119.74	104.51	89.29	74.06	68.43	62.80	57.17	51.54
82.5	127.01	115.25	103.49	91.73	79.97	68.21	62.99	57.77	52.55	47.33
85.0	108.74	99.78	90.81	81.85	72.88	63.92	58.99	54.06	49.13	44.20
87.5	92.22	85.85	79.48	73.12	66.75	60.39	55.65	50.91	46.17	41.43
90.0	79.32	75.11	70.90	66.68	62.47	58.26	53.52	48.78	44.04	39.30
92.5	69.58	66.70	63.83	60.95	58.08	55.21	50.60	45.99	41.39	36.78
95.0	62.24	60.09	57.94	55.79	53.64	51.49	47.10	42.71	38.31	33.92
97.5	58.30	56.11	53.93	51.74	49.56	47.37	43.31	39.24	35.18	31.11
100.0	55.88	53.30	50.73	48.15	45.58	43.00	39.29	35.58	31.87	28.16
102.5	54.22	51.16	48.09	45.03	41.96	38.90	35.55	32.22	28.88	25.54
105.0	52.53	48.98	45.43	41.89	38.34	34.79	31.78	28.78	25.77	22.76
107.5	50.50	46.57	42.65	38.72	34.80	30.87	28.21	25.55	22.89	20.23
110.0	48.50	44.31	40.11	35.92	31.72	27.53	25.20	22.87	20.55	18.22
112.5	45.71	41.41	37.12	32.82	28.53	24.24	22.21	20.19	18.17	16.14
115.0	43.31	38.97	34.63	30.28	25.94	21.60	19.81	18.03	16.24	14.46
117.5	40.37	36.16	31.96	27.76	23.56	19.36	17.76	16.16	14.56	12.96
120.0	37.62	33.56	29.49	25.42	21.36	17.29	15.88	14.47	13.05	11.64
122.5	34.45	30.70	26.95	23.20	19.45	15.70	14.40	13.10	11.81	10.51
125.0	31.23	27.82	24.42	21.01	17.61	14.20	13.03	11.85	10.68	9.51
127.5	28.15	25.01	21.87	18.73	15.59	12.45	11.44	10.43	9.42	8.41
130.0	25.07	22.31	19.55	16.80	14.04	11.28	10.38	9.48	8.58	7.68
132.5	21.83	19.41	17.00	14.59	12.17	9.76	9.02	8.27	7.53	6.78
135.0	19.02	16.93	14.84	12.76	10.67	8.58	7.95	7.32	6.68	6.05
137.5	16.51	14.72	12.93	11.13	9.34	7.55	7.03	6.51	6.00	5.48
140.0	14.14	12.66	11.17	9.68	8.20	6.71	6.29	5.86	5.44	5.01
142.5	11.81	10.66	9.50	8.35	7.19	6.04	5.69	5.34	4.99	4.64
145.0	9.74	8.87	7.99	7.11	6.24	5.36	5.08	4.80	4.51	4.23
147.5	7.82	7.17	6.51	5.86	5.20	4.55	4.34	4.14	3.94	3.74
150.0	6.03	5.57	5.11	4.64	4.18	3.72	3.58	3.45	3.31	3.17
152.5	4.61	4.33	4.06	3.78	3.51	3.23	3.13	3.03	2.93	2.83
155.0	3.42	3.28	3.14	3.01	2.87	2.73	2.68	2.64	2.59	2.55
157.5	2.56	2.48	2.41	2.34	2.26	2.19	2.20	2.21	2.23	2.24
160.0	1.97	1.96	1.96	1.95	1.95	1.94	1.98	2.02	2.05	2.09
162.5	1.95	1.93	1.92	1.90	1.88	1.87	1.91	1.95	2.00	2.04
165.0	2.09	2.10	2.11	2.13	2.14	2.15	2.18	2.22	2.25	2.29
167.5	2.69	2.71	2.73	2.75	2.77	2.80	2.86	2.93	3.00	3.07
170.0	2.77	2.78	2.79	2.80	2.81	2.82	2.90	2.97	3.05	3.12
172.5	2.84	2.84	2.84	2.84	2.84	2.84	2.92	3.00	3.08	3.16
175.0	2.88	2.87	2.87	2.87	2.86	2.86	2.95	3.03	3.12	3.20
177.5	2.91	2.90	2.90	2.89	2.89	2.88	2.96	3.05	3.13	3.22
180.0	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00

**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	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65
2.5	1130.72	1127.37	1124.01	1120.66	1117.31	1113.35	1109.40	1105.45	1101.50	1097.55
5.0	1043.03	1032.84	1022.66	1012.47	1002.28	997.67	993.06	988.45	983.84	979.24
7.5	982.26	966.77	951.29	935.80	920.32	913.26	906.21	899.15	892.10	885.05

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : SWPM-WB-LED-PL2-40.IES**

**CANDELA TABULATION - (Cont.)**

10.0	922.85	907.64	892.43	877.23	862.02	851.71	841.40	831.09	820.78	810.47
12.5	863.78	845.30	826.82	808.33	789.85	780.19	770.53	760.87	751.21	741.55
15.0	808.24	787.80	767.36	746.92	726.48	718.82	711.16	703.50	695.84	688.17
17.5	759.63	739.29	718.96	698.62	678.29	670.24	662.19	654.15	646.10	638.05
20.0	715.52	697.34	679.15	660.97	642.79	633.34	623.89	614.44	604.99	595.53
22.5	665.09	648.36	631.63	614.90	598.18	587.65	577.13	566.61	556.09	545.57
25.0	617.75	601.28	584.81	568.34	551.87	539.55	527.23	514.92	502.60	490.28
27.5	571.51	553.91	536.31	518.71	501.11	487.94	474.78	461.62	448.46	435.29
30.0	519.67	501.79	483.92	466.04	448.16	433.86	419.55	405.25	390.94	376.64
32.5	472.34	453.90	435.45	417.00	398.56	382.93	367.30	351.67	336.04	320.41
35.0	426.85	406.81	386.77	366.73	346.69	331.32	315.96	300.59	285.23	269.86
37.5	379.77	360.05	340.33	320.61	300.89	286.36	271.84	257.31	242.79	228.26
40.0	333.94	314.24	294.53	274.83	255.13	242.34	229.56	216.77	203.98	191.20
42.5	294.40	275.15	255.91	236.66	217.42	206.23	195.04	183.86	172.67	161.48
45.0	261.02	241.84	222.66	203.48	184.30	174.86	165.42	155.97	146.53	137.09
47.5	228.64	210.74	192.84	174.94	157.04	148.71	140.39	132.07	123.75	115.43
50.0	201.34	184.84	168.33	151.83	135.32	127.84	120.36	112.88	105.40	97.92
52.5	179.27	164.84	150.41	135.98	121.55	114.61	107.68	100.74	93.81	86.87
55.0	160.59	148.25	135.91	123.58	111.24	104.49	97.75	91.00	84.25	77.51
57.5	144.34	132.94	121.53	110.12	98.71	92.58	86.44	80.31	74.17	68.04
60.0	131.24	120.84	110.44	100.05	89.65	83.71	77.78	71.84	65.91	59.97
62.5	118.14	108.54	98.93	89.33	79.73	73.96	68.19	62.42	56.65	50.87
65.0	103.42	94.76	86.10	77.45	68.79	63.33	57.87	52.42	46.96	41.50
67.5	89.68	81.79	73.89	65.99	58.10	52.92	47.74	42.57	37.39	32.21
70.0	77.08	69.62	62.17	54.71	47.26	42.68	38.09	33.51	28.92	24.34
72.5	66.40	59.28	52.15	45.02	37.90	34.12	30.34	26.56	22.78	19.00
75.0	56.20	49.23	42.26	35.29	28.32	25.47	22.62	19.77	16.92	14.06
77.5	50.48	44.27	38.07	31.86	25.66	23.11	20.57	18.02	15.47	12.92
80.0	45.92	40.29	34.66	29.03	23.40	21.13	18.86	16.59	14.32	12.04
82.5	42.12	36.90	31.68	26.46	21.25	19.24	17.23	15.23	13.22	11.21
85.0	39.26	34.33	29.40	24.47	19.54	17.77	16.00	14.23	12.46	10.69
87.5	36.69	31.95	27.21	22.47	17.74	16.17	14.61	13.05	11.49	9.92
90.0	34.56	29.82	25.08	20.34	15.60	14.28	12.96	11.63	10.31	8.99
92.5	32.17	27.57	22.96	18.36	13.75	12.64	11.52	10.41	9.29	8.18
95.0	29.53	25.14	20.74	16.35	11.96	11.05	10.14	9.22	8.31	7.40
97.5	27.05	22.98	18.92	14.85	10.79	10.00	9.22	8.43	7.64	6.86
100.0	24.45	20.74	17.03	13.32	9.61	8.95	8.29	7.63	6.97	6.31
102.5	22.20	18.86	15.52	12.18	8.84	8.26	7.68	7.10	6.52	5.95
105.0	19.76	16.75	13.74	10.74	7.73	7.27	6.81	6.36	5.90	5.44
107.5	17.57	14.91	12.25	9.59	6.93	6.56	6.18	5.81	5.43	5.06
110.0	15.89	13.56	11.24	8.91	6.58	6.22	5.86	5.51	5.15	4.79
112.5	14.12	12.10	10.07	8.05	6.03	5.73	5.43	5.13	4.83	4.54
115.0	12.67	10.89	9.10	7.32	5.53	5.29	5.04	4.80	4.55	4.31
117.5	11.36	9.76	8.16	6.56	4.96	4.77	4.59	4.41	4.22	4.04
120.0	10.23	8.82	7.40	5.99	4.58	4.44	4.29	4.15	4.01	3.86
122.5	9.22	7.92	6.63	5.33	4.04	3.95	3.86	3.78	3.69	3.61
125.0	8.33	7.16	5.99	4.81	3.64	3.60	3.55	3.51	3.47	3.42
127.5	7.40	6.39	5.38	4.37	3.37	3.35	3.33	3.32	3.30	3.29
130.0	6.79	5.89	4.99	4.09	3.19	3.19	3.19	3.19	3.19	3.20
132.5	6.04	5.30	4.55	3.81	3.07	3.08	3.09	3.11	3.12	3.13
135.0	5.42	4.79	4.15	3.52	2.89	2.92	2.95	2.98	3.01	3.04
137.5	4.96	4.44	3.93	3.41	2.89	2.92	2.95	2.98	3.00	3.03
140.0	4.59	4.16	3.74	3.31	2.89	2.92	2.94	2.97	2.99	3.02
142.5	4.29	3.94	3.59	3.24	2.89	2.91	2.93	2.95	2.97	2.98
145.0	3.95	3.67	3.38	3.10	2.82	2.84	2.85	2.87	2.88	2.90
147.5	3.54	3.34	3.14	2.94	2.74	2.75	2.77	2.78	2.79	2.80

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : SWPM-WB-LED-PL2-40.IES**

**CANDELA TABULATION - (Cont.)**

150.0	3.04	2.90	2.76	2.63	2.49	2.47	2.46	2.44	2.43	2.41
152.5	2.73	2.63	2.53	2.43	2.34	2.33	2.32	2.32	2.31	2.30
155.0	2.50	2.46	2.41	2.37	2.32	2.32	2.32	2.32	2.32	2.32
157.5	2.25	2.26	2.28	2.29	2.30	2.31	2.31	2.32	2.33	2.33
160.0	2.13	2.17	2.20	2.24	2.28	2.29	2.31	2.32	2.33	2.35
162.5	2.08	2.13	2.17	2.22	2.26	2.28	2.30	2.32	2.34	2.36
165.0	2.32	2.36	2.39	2.43	2.46	2.46	2.46	2.47	2.47	2.47
167.5	3.14	3.21	3.28	3.35	3.42	3.43	3.45	3.47	3.48	3.50
170.0	3.20	3.27	3.35	3.42	3.50	3.51	3.52	3.53	3.54	3.56
172.5	3.24	3.32	3.40	3.48	3.57	3.57	3.58	3.59	3.59	3.60
175.0	3.29	3.37	3.46	3.54	3.63	3.63	3.63	3.64	3.64	3.64
177.5	3.30	3.39	3.47	3.56	3.64	3.63	3.63	3.62	3.62	3.61
180.0	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00

Vert. Angles	Horizontal Angles									
	<u>150.0</u>	<u>152.5</u>	<u>155.0</u>	<u>157.5</u>	<u>160.0</u>	<u>162.5</u>	<u>165.0</u>	<u>167.5</u>	<u>170.0</u>	<u>172.5</u>
0.0	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65
2.5	1093.60	1089.65	1085.70	1081.75	1079.63	1077.51	1075.39	1073.26	1071.14	1069.02
5.0	974.63	970.02	965.41	960.80	957.31	953.81	950.32	946.83	943.33	939.84
7.5	877.99	870.94	863.88	856.83	853.10	849.37	845.65	841.92	838.19	834.46
10.0	800.16	789.85	779.54	769.23	764.98	760.73	756.47	752.22	747.97	743.72
12.5	731.89	722.23	712.57	702.91	699.26	695.62	691.98	688.33	684.69	681.05
15.0	680.51	672.85	665.19	657.53	652.67	647.82	642.96	638.10	633.25	628.39
17.5	630.01	621.96	613.92	605.87	601.62	597.36	593.11	588.85	584.60	580.34
20.0	586.08	576.63	567.18	557.73	553.22	548.72	544.21	539.71	535.20	530.70
22.5	535.05	524.53	514.01	503.49	498.26	493.04	487.81	482.59	477.36	472.14
25.0	477.96	465.65	453.33	441.01	435.93	430.85	425.77	420.69	415.61	410.53
27.5	422.13	408.97	395.81	382.65	376.26	369.87	363.48	357.09	350.70	344.32
30.0	362.33	348.03	333.72	319.42	312.35	305.28	298.21	291.14	284.07	277.00
32.5	304.78	289.15	273.52	257.90	251.91	245.93	239.94	233.96	227.97	221.99
35.0	254.50	239.13	223.77	208.40	203.52	198.64	193.77	188.89	184.01	179.13
37.5	213.74	199.21	184.69	170.16	166.14	162.11	158.09	154.06	150.04	146.01
40.0	178.41	165.62	152.84	140.05	136.57	133.09	129.62	126.14	122.66	119.18
42.5	150.29	139.10	127.91	116.73	113.62	110.51	107.41	104.30	101.19	98.09
45.0	127.65	118.20	108.76	99.32	96.22	93.11	90.01	86.90	83.80	80.69
47.5	107.11	98.79	90.47	82.15	79.59	77.04	74.48	71.92	69.36	66.81
50.0	90.44	82.96	75.48	68.00	65.87	63.75	61.62	59.49	57.37	55.24
52.5	79.94	73.00	66.07	59.14	57.31	55.49	53.67	51.85	50.03	48.21
55.0	70.76	64.01	57.27	50.52	48.96	47.40	45.84	44.28	42.73	41.17
57.5	61.90	55.77	49.63	43.50	42.11	40.72	39.33	37.94	36.55	35.16
60.0	54.04	48.10	42.17	36.23	34.96	33.70	32.43	31.17	29.90	28.64
62.5	45.10	39.33	33.56	27.79	26.68	25.56	24.45	23.34	22.22	21.11
65.0	36.04	30.59	25.13	19.67	18.66	17.65	16.64	15.63	14.63	13.62
67.5	27.04	21.86	16.69	11.51	10.79	10.08	9.36	8.65	7.93	7.21
70.0	19.75	15.17	10.58	6.00	5.53	5.06	4.59	4.12	3.65	3.18
72.5	15.22	11.44	7.66	3.89	3.69	3.50	3.31	3.11	2.92	2.73
75.0	11.21	8.36	5.51	2.66	2.65	2.64	2.63	2.62	2.62	2.61
77.5	10.38	7.83	5.28	2.74	2.76	2.78	2.80	2.82	2.84	2.87
80.0	9.77	7.50	5.23	2.96	2.98	3.00	3.02	3.04	3.05	3.07
82.5	9.21	7.20	5.19	3.19	3.22	3.26	3.30	3.34	3.38	3.42
85.0	8.92	7.15	5.38	3.61	3.66	3.71	3.75	3.80	3.85	3.90
87.5	8.36	6.80	5.24	3.68	3.76	3.84	3.92	4.01	4.09	4.17
90.0	7.67	6.34	5.02	3.70	3.80	3.90	4.00	4.10	4.19	4.29
92.5	7.07	5.95	4.84	3.73	3.86	3.99	4.13	4.26	4.39	4.53
95.0	6.49	5.57	4.66	3.75	3.89	4.02	4.16	4.29	4.43	4.56

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : SWPM-WB-LED-PL2-40.IES**

**CANDELA TABULATION - (Cont.)**

97.5	6.07	5.28	4.50	3.71	3.85	4.00	4.14	4.28	4.42	4.57
100.0	5.65	4.99	4.33	3.67	3.82	3.97	4.12	4.27	4.42	4.57
102.5	5.37	4.79	4.21	3.64	3.79	3.94	4.10	4.25	4.41	4.56
105.0	4.98	4.53	4.07	3.61	3.76	3.91	4.06	4.21	4.35	4.50
107.5	4.68	4.31	3.93	3.56	3.69	3.82	3.95	4.08	4.21	4.34
110.0	4.43	4.08	3.72	3.36	3.50	3.63	3.77	3.91	4.04	4.18
112.5	4.24	3.94	3.64	3.35	3.47	3.59	3.71	3.83	3.95	4.08
115.0	4.06	3.82	3.57	3.33	3.45	3.57	3.68	3.80	3.92	4.04
117.5	3.86	3.67	3.49	3.31	3.41	3.52	3.63	3.74	3.85	3.96
120.0	3.72	3.58	3.43	3.29	3.36	3.43	3.51	3.58	3.65	3.72
122.5	3.52	3.44	3.35	3.27	3.33	3.39	3.46	3.52	3.58	3.65
125.0	3.38	3.34	3.29	3.25	3.31	3.37	3.44	3.50	3.56	3.62
127.5	3.27	3.26	3.24	3.23	3.29	3.35	3.41	3.48	3.54	3.60
130.0	3.20	3.20	3.20	3.20	3.26	3.33	3.39	3.45	3.52	3.58
132.5	3.15	3.16	3.17	3.19	3.25	3.31	3.37	3.43	3.50	3.56
135.0	3.07	3.10	3.13	3.16	3.22	3.29	3.35	3.41	3.48	3.54
137.5	3.06	3.09	3.12	3.15	3.21	3.27	3.33	3.39	3.46	3.52
140.0	3.04	3.07	3.09	3.12	3.18	3.24	3.31	3.37	3.43	3.49
142.5	3.00	3.02	3.04	3.06	3.12	3.19	3.25	3.32	3.38	3.45
145.0	2.91	2.93	2.94	2.96	3.03	3.10	3.17	3.24	3.32	3.39
147.5	2.82	2.83	2.84	2.86	2.92	2.98	3.05	3.11	3.17	3.24
150.0	2.40	2.38	2.37	2.35	2.41	2.47	2.52	2.58	2.64	2.70
152.5	2.30	2.29	2.29	2.28	2.32	2.37	2.41	2.46	2.50	2.55
155.0	2.32	2.32	2.32	2.32	2.34	2.36	2.37	2.39	2.41	2.43
157.5	2.34	2.35	2.35	2.36	2.36	2.36	2.37	2.37	2.37	2.37
160.0	2.36	2.37	2.39	2.40	2.39	2.39	2.38	2.37	2.37	2.36
162.5	2.38	2.40	2.42	2.44	2.42	2.41	2.39	2.38	2.36	2.34
165.0	2.47	2.48	2.48	2.48	2.46	2.44	2.41	2.39	2.37	2.35
167.5	3.52	3.53	3.55	3.57	3.55	3.53	3.51	3.49	3.47	3.45
170.0	3.57	3.58	3.59	3.60	3.60	3.61	3.61	3.62	3.62	3.63
172.5	3.61	3.61	3.62	3.63	3.61	3.60	3.59	3.57	3.56	3.55
175.0	3.64	3.65	3.65	3.65	3.62	3.59	3.56	3.53	3.50	3.47
177.5	3.60	3.60	3.59	3.59	3.53	3.47	3.41	3.35	3.29	3.23
180.0	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00

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	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65
2.5	1066.90	1064.78	1062.66	1063.86	1065.07	1066.27	1067.48	1068.68	1069.89	1071.09
5.0	936.35	932.85	929.36	930.88	932.40	933.92	935.44	936.96	938.48	940.00
7.5	830.73	827.00	823.28	826.06	828.85	831.63	834.42	837.21	839.99	842.78
10.0	739.46	735.21	730.96	736.31	741.66	747.00	752.35	757.70	763.05	768.39
12.5	677.40	673.76	670.12	675.92	681.73	687.54	693.35	699.16	704.97	710.78
15.0	623.53	618.68	613.82	620.39	626.96	633.53	640.10	646.66	653.23	659.80
17.5	576.09	571.83	567.58	573.78	579.98	586.18	592.38	598.58	604.78	610.98
20.0	526.19	521.69	517.18	522.69	528.20	533.71	539.22	544.72	550.23	555.74
22.5	466.91	461.69	456.47	461.29	466.12	470.95	475.78	480.61	485.44	490.27
25.0	405.45	400.37	395.29	399.60	403.91	408.22	412.53	416.84	421.15	425.46
27.5	337.93	331.54	325.15	329.93	334.71	339.49	344.27	349.05	353.83	358.61
30.0	269.93	262.86	255.79	260.70	265.61	270.51	275.42	280.33	285.24	290.14
32.5	216.00	210.02	204.03	208.06	212.09	216.12	220.15	224.19	228.22	232.25
35.0	174.26	169.38	164.50	167.42	170.34	173.27	176.19	179.11	182.03	184.96
37.5	141.99	137.96	133.94	136.13	138.32	140.51	142.71	144.90	147.09	149.28
40.0	115.71	112.23	108.75	110.83	112.90	114.98	117.05	119.13	121.20	123.28
42.5	94.98	91.87	88.77	90.80	92.83	94.87	96.90	98.93	100.97	103.00

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : SWPM-WB-LED-PL2-40.IES**

**CANDELA TABULATION - (Cont.)**

45.0	77.59	74.48	71.38	73.27	75.17	77.06	78.96	80.85	82.75	84.64
47.5	64.25	61.69	59.14	60.70	62.27	63.84	65.41	66.98	68.55	70.12
50.0	53.11	50.99	48.86	50.19	51.53	52.86	54.19	55.53	56.86	58.19
52.5	46.39	44.57	42.75	43.79	44.84	45.89	46.93	47.98	49.03	50.08
55.0	39.61	38.05	36.49	37.45	38.41	39.38	40.34	41.30	42.26	43.23
57.5	33.77	32.38	30.99	31.83	32.66	33.50	34.33	35.17	36.00	36.84
60.0	27.37	26.11	24.84	25.57	26.31	27.04	27.77	28.51	29.24	29.97
62.5	20.00	18.88	17.77	18.41	19.06	19.70	20.35	20.99	21.63	22.28
65.0	12.61	11.60	10.59	11.16	11.74	12.31	12.88	13.46	14.03	14.60
67.5	6.50	5.78	5.07	5.40	5.74	6.07	6.41	6.74	7.08	7.41
70.0	2.71	2.24	1.77	1.78	1.78	1.79	1.79	1.80	1.80	1.81
72.5	2.53	2.34	2.15	2.14	2.13	2.12	2.11	2.10	2.10	2.09
75.0	2.60	2.59	2.58	2.55	2.51	2.48	2.44	2.41	2.37	2.34
77.5	2.89	2.91	2.93	2.90	2.87	2.84	2.81	2.77	2.74	2.71
80.0	3.09	3.11	3.13	3.10	3.06	3.03	3.00	2.96	2.93	2.90
82.5	3.46	3.50	3.54	3.52	3.49	3.47	3.45	3.42	3.40	3.38
85.0	3.94	3.99	4.04	3.99	3.94	3.89	3.84	3.78	3.73	3.68
87.5	4.25	4.34	4.42	4.33	4.24	4.15	4.05	3.96	3.87	3.78
90.0	4.39	4.49	4.59	4.48	4.37	4.26	4.15	4.05	3.94	3.83
92.5	4.66	4.79	4.93	4.78	4.64	4.49	4.35	4.21	4.06	3.92
95.0	4.70	4.83	4.97	4.82	4.68	4.53	4.38	4.24	4.09	3.94
97.5	4.71	4.85	5.00	4.85	4.70	4.55	4.40	4.26	4.11	3.96
100.0	4.72	4.87	5.02	4.87	4.72	4.57	4.42	4.28	4.13	3.98
102.5	4.72	4.87	5.03	4.88	4.73	4.58	4.43	4.29	4.14	3.99
105.0	4.65	4.80	4.95	4.81	4.67	4.54	4.40	4.26	4.12	3.99
107.5	4.47	4.60	4.73	4.61	4.50	4.39	4.28	4.17	4.06	3.95
110.0	4.32	4.45	4.59	4.50	4.41	4.32	4.23	4.14	4.05	3.96
112.5	4.20	4.32	4.44	4.36	4.28	4.19	4.11	4.03	3.95	3.86
115.0	4.15	4.27	4.39	4.31	4.23	4.15	4.07	4.00	3.92	3.84
117.5	4.07	4.18	4.29	4.22	4.14	4.07	4.00	3.92	3.85	3.78
120.0	3.80	3.87	3.94	3.90	3.86	3.82	3.78	3.74	3.70	3.66
122.5	3.71	3.77	3.84	3.80	3.77	3.73	3.70	3.66	3.63	3.59
125.0	3.69	3.75	3.81	3.77	3.73	3.70	3.66	3.62	3.58	3.55
127.5	3.66	3.73	3.79	3.75	3.72	3.68	3.64	3.60	3.57	3.53
130.0	3.64	3.71	3.77	3.73	3.70	3.66	3.62	3.59	3.55	3.51
132.5	3.62	3.68	3.75	3.71	3.68	3.64	3.61	3.57	3.54	3.50
135.0	3.60	3.67	3.73	3.70	3.66	3.63	3.59	3.56	3.52	3.49
137.5	3.58	3.64	3.71	3.67	3.64	3.61	3.57	3.54	3.51	3.47
140.0	3.56	3.62	3.68	3.65	3.62	3.58	3.55	3.52	3.49	3.45
142.5	3.51	3.58	3.64	3.61	3.58	3.55	3.52	3.50	3.47	3.44
145.0	3.46	3.53	3.60	3.56	3.52	3.47	3.43	3.39	3.35	3.30
147.5	3.30	3.37	3.43	3.38	3.33	3.28	3.23	3.18	3.13	3.08
150.0	2.75	2.81	2.87	2.85	2.84	2.82	2.80	2.79	2.77	2.75
152.5	2.59	2.64	2.68	2.67	2.66	2.65	2.64	2.63	2.62	2.61
155.0	2.44	2.46	2.48	2.48	2.49	2.49	2.50	2.50	2.51	2.51
157.5	2.38	2.38	2.38	2.38	2.37	2.37	2.36	2.36	2.35	2.35
160.0	2.35	2.35	2.34	2.33	2.33	2.32	2.32	2.31	2.31	2.30
162.5	2.33	2.31	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30
165.0	2.32	2.30	2.28	2.30	2.31	2.33	2.35	2.36	2.38	2.40
167.5	3.43	3.41	3.39	3.32	3.25	3.18	3.11	3.05	2.98	2.91
170.0	3.63	3.64	3.64	3.56	3.48	3.40	3.32	3.23	3.15	3.07
172.5	3.53	3.52	3.51	3.45	3.39	3.33	3.27	3.21	3.15	3.09
175.0	3.44	3.41	3.38	3.32	3.27	3.21	3.15	3.10	3.04	2.98
177.5	3.17	3.11	3.05	3.01	2.96	2.92	2.87	2.83	2.78	2.74
180.0	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : SWPM-WB-LED-PL2-40.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>	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65
<b>2.5</b>	1072.30	1073.50	1076.88	1080.26	1083.64	1087.02	1090.40	1093.78	1097.16	1100.54
<b>5.0</b>	941.52	943.04	950.67	958.29	965.92	973.54	981.17	988.79	996.42	1004.04
<b>7.5</b>	845.56	848.35	860.64	872.93	885.21	897.50	909.79	922.08	934.36	946.65
<b>10.0</b>	773.74	779.09	788.84	798.60	808.35	818.10	827.86	837.61	847.36	857.12
<b>12.5</b>	716.59	722.40	728.64	734.89	741.14	747.38	753.63	759.88	766.12	772.37
<b>15.0</b>	666.37	672.94	678.06	683.18	688.30	693.42	698.55	703.67	708.79	713.91
<b>17.5</b>	617.18	623.39	629.21	635.04	640.87	646.70	652.53	658.36	664.19	670.02
<b>20.0</b>	561.25	566.76	573.78	580.80	587.82	594.84	601.85	608.87	615.89	622.91
<b>22.5</b>	495.10	499.93	509.22	518.51	527.80	537.09	546.37	555.66	564.95	574.24
<b>25.0</b>	429.77	434.08	444.73	455.38	466.04	476.69	487.34	497.99	508.65	519.30
<b>27.5</b>	363.39	368.18	379.92	391.66	403.41	415.15	426.90	438.64	450.39	462.13
<b>30.0</b>	295.05	299.96	313.17	326.39	339.60	352.82	366.03	379.25	392.46	405.68
<b>32.5</b>	236.28	240.31	254.78	269.24	283.71	298.17	312.64	327.10	341.57	356.03
<b>35.0</b>	187.88	190.80	205.33	219.85	234.38	248.90	263.43	277.95	292.48	307.00
<b>37.5</b>	151.48	153.67	167.14	180.61	194.07	207.54	221.01	234.48	247.94	261.41
<b>40.0</b>	125.35	127.43	138.89	150.35	161.81	173.27	184.72	196.18	207.64	219.10
<b>42.5</b>	105.03	107.07	116.61	126.16	135.70	145.25	154.79	164.34	173.88	183.43
<b>45.0</b>	86.54	88.43	96.90	105.37	113.85	122.32	130.79	139.26	147.74	156.21
<b>47.5</b>	71.69	73.26	80.95	88.64	96.33	104.02	111.72	119.41	127.10	134.79
<b>50.0</b>	59.53	60.86	68.22	75.57	82.93	90.28	97.64	104.99	112.35	119.70
<b>52.5</b>	51.12	52.17	58.77	65.38	71.98	78.59	85.19	91.80	98.40	105.01
<b>55.0</b>	44.19	45.15	51.04	56.93	62.82	68.71	74.61	80.50	86.39	92.28
<b>57.5</b>	37.67	38.51	44.24	49.98	55.72	61.46	67.19	72.93	78.67	84.41
<b>60.0</b>	30.71	31.44	36.89	42.34	47.79	53.24	58.68	64.13	69.58	75.03
<b>62.5</b>	22.92	23.57	28.65	33.74	38.83	43.91	49.00	54.09	59.17	64.26
<b>65.0</b>	15.18	15.75	20.46	25.18	29.89	34.61	39.32	44.04	48.75	53.47
<b>67.5</b>	7.75	8.09	12.41	16.74	21.06	25.39	29.71	34.04	38.36	42.69
<b>70.0</b>	1.81	1.82	5.76	9.70	13.63	17.57	21.51	25.45	29.38	33.32
<b>72.5</b>	2.08	2.07	4.91	7.76	10.60	13.45	16.29	19.14	21.98	24.83
<b>75.0</b>	2.30	2.27	4.41	6.54	8.68	10.82	12.95	15.09	17.23	19.36
<b>77.5</b>	2.68	2.65	4.55	6.46	8.36	10.26	12.16	14.07	15.97	17.87
<b>80.0</b>	2.86	2.83	4.45	6.08	7.70	9.33	10.95	12.58	14.20	15.83
<b>82.5</b>	3.35	3.33	4.69	6.05	7.41	8.77	10.13	11.49	12.85	14.21
<b>85.0</b>	3.63	3.58	4.75	5.93	7.10	8.27	9.45	10.62	11.79	12.97
<b>87.5</b>	3.69	3.60	4.60	5.61	6.62	7.62	8.63	9.64	10.64	11.65
<b>90.0</b>	3.72	3.61	4.50	5.38	6.27	7.15	8.04	8.92	9.81	10.69
<b>92.5</b>	3.77	3.63	4.38	5.13	5.88	6.63	7.39	8.14	8.89	9.64
<b>95.0</b>	3.80	3.65	4.28	4.91	5.54	6.17	6.79	7.42	8.05	8.68
<b>97.5</b>	3.81	3.67	4.19	4.71	5.23	5.75	6.27	6.79	7.31	7.83
<b>100.0</b>	3.83	3.68	4.09	4.50	4.92	5.33	5.74	6.15	6.57	6.98
<b>102.5</b>	3.84	3.70	4.04	4.38	4.73	5.07	5.41	5.76	6.10	6.44
<b>105.0</b>	3.85	3.71	3.98	4.25	4.52	4.79	5.06	5.33	5.60	5.87
<b>107.5</b>	3.84	3.73	3.94	4.14	4.35	4.55	4.76	4.97	5.17	5.38
<b>110.0</b>	3.87	3.78	3.94	4.09	4.25	4.40	4.56	4.71	4.87	5.02
<b>112.5</b>	3.78	3.70	3.82	3.94	4.06	4.18	4.30	4.42	4.54	4.66
<b>115.0</b>	3.76	3.68	3.77	3.87	3.96	4.06	4.15	4.25	4.34	4.44
<b>117.5</b>	3.70	3.63	3.71	3.79	3.87	3.95	4.03	4.11	4.19	4.27
<b>120.0</b>	3.62	3.58	3.61	3.63	3.66	3.69	3.71	3.74	3.77	3.79
<b>122.5</b>	3.56	3.52	3.51	3.51	3.50	3.50	3.49	3.49	3.48	3.48
<b>125.0</b>	3.51	3.47	3.46	3.45	3.43	3.42	3.41	3.40	3.38	3.37
<b>127.5</b>	3.49	3.46	3.44	3.42	3.40	3.38	3.36	3.34	3.32	3.30
<b>130.0</b>	3.48	3.44	3.41	3.39	3.36	3.33	3.31	3.28	3.25	3.23

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : SWPM-WB-LED-PL2-40.IES**

**CANDELA TABULATION - (Cont.)**

132.5	3.47	3.43	3.40	3.36	3.33	3.29	3.26	3.23	3.19	3.16
135.0	3.45	3.42	3.38	3.34	3.30	3.26	3.21	3.17	3.13	3.09
137.5	3.44	3.41	3.36	3.32	3.28	3.23	3.19	3.15	3.10	3.06
140.0	3.42	3.39	3.35	3.30	3.26	3.21	3.17	3.12	3.08	3.03
142.5	3.41	3.38	3.33	3.29	3.24	3.19	3.15	3.10	3.05	3.01
145.0	3.26	3.22	3.19	3.16	3.12	3.09	3.06	3.03	2.99	2.96
147.5	3.03	2.98	2.95	2.93	2.91	2.88	2.86	2.84	2.82	2.79
150.0	2.74	2.72	2.71	2.70	2.68	2.67	2.66	2.65	2.63	2.62
152.5	2.60	2.60	2.58	2.56	2.54	2.52	2.51	2.49	2.47	2.45
155.0	2.52	2.52	2.51	2.50	2.48	2.47	2.46	2.45	2.43	2.42
157.5	2.34	2.34	2.35	2.36	2.36	2.37	2.38	2.39	2.39	2.40
160.0	2.30	2.29	2.30	2.32	2.33	2.34	2.36	2.37	2.38	2.40
162.5	2.30	2.30	2.31	2.32	2.34	2.35	2.36	2.38	2.39	2.41
165.0	2.41	2.43	2.44	2.45	2.46	2.47	2.49	2.50	2.51	2.52
167.5	2.84	2.77	2.84	2.92	2.99	3.06	3.13	3.21	3.28	3.35
170.0	2.99	2.91	2.97	3.02	3.08	3.14	3.19	3.25	3.31	3.36
172.5	3.03	2.97	3.00	3.02	3.05	3.07	3.10	3.12	3.15	3.17
175.0	2.93	2.87	2.89	2.91	2.94	2.96	2.98	3.00	3.03	3.05
177.5	2.69	2.65	2.66	2.68	2.69	2.71	2.73	2.74	2.76	2.77
180.0	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00

Vert. Angles	Horizontal Angles									
	<u>225.0</u>	<u>227.5</u>	<u>230.0</u>	<u>232.5</u>	<u>235.0</u>	<u>237.5</u>	<u>240.0</u>	<u>242.5</u>	<u>245.0</u>	<u>247.5</u>
0.0	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65
2.5	1103.92	1107.99	1112.05	1116.12	1120.19	1124.25	1128.32	1132.39	1136.45	1140.52
5.0	1011.67	1023.91	1036.14	1048.38	1060.61	1072.85	1085.08	1097.32	1109.55	1121.79
7.5	958.94	972.89	986.84	1000.80	1014.75	1028.70	1042.65	1056.61	1070.56	1084.51
10.0	866.87	878.76	890.66	902.55	914.45	926.34	938.24	950.13	962.03	973.92
12.5	778.62	794.95	811.29	827.63	843.97	860.31	876.65	892.99	909.33	925.67
15.0	719.03	736.84	754.65	772.46	790.27	808.09	825.90	843.71	861.52	879.33
17.5	675.85	692.03	708.22	724.40	740.59	756.78	772.96	789.15	805.33	821.52
20.0	629.93	643.76	657.59	671.42	685.25	699.08	712.91	726.74	740.57	754.40
22.5	583.53	596.72	609.91	623.10	636.29	649.48	662.67	675.86	689.05	702.24
25.0	529.95	544.79	559.62	574.46	589.30	604.13	618.97	633.81	648.64	663.48
27.5	473.88	490.17	506.46	522.76	539.05	555.34	571.64	587.93	604.22	620.52
30.0	418.89	435.19	451.49	467.79	484.09	500.38	516.68	532.98	549.28	565.58
32.5	370.50	387.46	404.43	421.39	438.35	455.31	472.28	489.24	506.20	523.17
35.0	321.53	339.55	357.58	375.60	393.62	411.65	429.67	447.69	465.72	483.74
37.5	274.88	292.38	309.88	327.39	344.89	362.39	379.89	397.40	414.90	432.40
40.0	230.56	248.95	267.35	285.74	304.14	322.53	340.93	359.32	377.72	396.11
42.5	192.98	211.75	230.53	249.31	268.09	286.86	305.64	324.42	343.20	361.98
45.0	164.68	181.84	199.00	216.16	233.32	250.49	267.65	284.81	301.97	319.13
47.5	142.49	158.28	174.08	189.88	205.67	221.47	237.27	253.06	268.86	284.66
50.0	127.06	141.54	156.03	170.51	184.99	199.48	213.96	228.44	242.93	257.41
52.5	111.61	125.05	138.49	151.93	165.37	178.81	192.25	205.69	219.13	232.57
55.0	98.17	110.00	121.84	133.67	145.51	157.34	169.18	181.01	192.85	204.68
57.5	90.14	100.26	110.38	120.50	130.62	140.74	150.86	160.98	171.10	181.22
60.0	80.48	89.27	98.06	106.84	115.63	124.42	133.21	141.99	150.78	159.57
62.5	69.35	76.93	84.52	92.11	99.70	107.28	114.87	122.46	130.05	137.64
65.0	58.18	65.31	72.44	79.57	86.70	93.84	100.97	108.10	115.23	122.36
67.5	47.02	54.01	61.01	68.00	75.00	82.00	88.99	95.99	102.98	109.98
70.0	37.26	44.07	50.88	57.68	64.49	71.30	78.11	84.91	91.72	98.53
72.5	27.67	34.32	40.96	47.61	54.25	60.90	67.55	74.19	80.84	87.49
75.0	21.50	27.81	34.12	40.42	46.73	53.04	59.35	65.65	71.96	78.27
77.5	19.78	25.32	30.87	36.42	41.96	47.51	53.06	58.61	64.15	69.70

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : SWPM-WB-LED-PL2-40.IES**

**CANDELA TABULATION - (Cont.)**

<b>80.0</b>	17.45	22.49	27.52	32.56	37.59	42.63	47.66	52.70	57.73	62.77
<b>82.5</b>	15.57	20.30	25.04	29.78	34.52	39.26	44.00	48.73	53.47	58.21
<b>85.0</b>	14.14	18.63	23.11	27.60	32.09	36.57	41.06	45.55	50.03	54.52
<b>87.5</b>	12.66	16.97	21.28	25.59	29.90	34.21	38.52	42.83	47.14	51.45
<b>90.0</b>	11.58	15.59	19.59	23.60	27.61	31.61	35.62	39.63	43.63	47.64
<b>92.5</b>	10.39	14.09	17.79	21.49	25.19	28.89	32.59	36.29	39.99	43.69
<b>95.0</b>	9.31	12.70	16.08	19.47	22.86	26.24	29.63	33.02	36.40	39.79
<b>97.5</b>	8.36	11.42	14.48	17.54	20.60	23.66	26.73	29.79	32.85	35.91
<b>100.0</b>	7.39	10.16	12.93	15.69	18.46	21.23	24.00	26.76	29.53	32.30
<b>102.5</b>	6.79	9.20	11.61	14.03	16.44	18.85	21.27	23.68	26.09	28.51
<b>105.0</b>	6.14	8.27	10.40	12.52	14.65	16.78	18.91	21.03	23.16	25.29
<b>107.5</b>	5.59	7.48	9.37	11.26	13.15	15.04	16.93	18.82	20.71	22.60
<b>110.0</b>	5.18	6.82	8.46	10.11	11.75	13.39	15.03	16.68	18.32	19.96
<b>112.5</b>	4.78	6.25	7.71	9.18	10.64	12.11	13.57	15.04	16.50	17.97
<b>115.0</b>	4.53	5.83	7.13	8.43	9.73	11.03	12.33	13.63	14.93	16.23
<b>117.5</b>	4.35	5.51	6.67	7.84	9.00	10.16	11.32	12.49	13.65	14.81
<b>120.0</b>	3.82	4.90	5.98	7.06	8.14	9.21	10.29	11.37	12.45	13.53
<b>122.5</b>	3.47	4.42	5.37	6.32	7.26	8.21	9.16	10.11	11.06	12.01
<b>125.0</b>	3.36	4.16	4.96	5.76	6.56	7.36	8.16	8.96	9.76	10.56
<b>127.5</b>	3.29	3.95	4.62	5.28	5.95	6.61	7.28	7.94	8.61	9.28
<b>130.0</b>	3.20	3.76	4.31	4.87	5.42	5.98	6.53	7.09	7.64	8.20
<b>132.5</b>	3.13	3.62	4.11	4.61	5.10	5.59	6.09	6.58	7.07	7.57
<b>135.0</b>	3.05	3.47	3.88	4.30	4.71	5.13	5.54	5.96	6.37	6.79
<b>137.5</b>	3.02	3.33	3.65	3.97	4.29	4.61	4.93	5.24	5.56	5.88
<b>140.0</b>	2.99	3.23	3.48	3.72	3.96	4.21	4.45	4.69	4.94	5.18
<b>142.5</b>	2.96	3.13	3.30	3.48	3.65	3.82	3.99	4.16	4.33	4.51
<b>145.0</b>	2.93	3.03	3.13	3.23	3.33	3.42	3.52	3.62	3.72	3.82
<b>147.5</b>	2.77	2.79	2.81	2.84	2.86	2.88	2.90	2.93	2.95	2.97
<b>150.0</b>	2.61	2.60	2.60	2.59	2.59	2.58	2.58	2.57	2.57	2.56
<b>152.5</b>	2.44	2.45	2.46	2.47	2.48	2.49	2.50	2.51	2.52	2.53
<b>155.0</b>	2.41	2.42	2.43	2.44	2.45	2.45	2.46	2.47	2.48	2.49
<b>157.5</b>	2.41	2.42	2.42	2.43	2.43	2.44	2.44	2.45	2.45	2.46
<b>160.0</b>	2.41	2.41	2.41	2.41	2.41	2.42	2.42	2.42	2.42	2.42
<b>162.5</b>	2.42	2.42	2.41	2.41	2.40	2.40	2.40	2.39	2.39	2.39
<b>165.0</b>	2.53	2.52	2.52	2.51	2.51	2.50	2.50	2.49	2.49	2.48
<b>167.5</b>	3.43	3.43	3.44	3.45	3.46	3.46	3.47	3.48	3.49	3.50
<b>170.0</b>	3.42	3.44	3.46	3.48	3.50	3.51	3.53	3.55	3.57	3.59
<b>172.5</b>	3.20	3.24	3.29	3.33	3.38	3.43	3.47	3.52	3.56	3.61
<b>175.0</b>	3.07	3.13	3.19	3.25	3.31	3.38	3.44	3.50	3.56	3.62
<b>177.5</b>	2.79	2.84	2.88	2.93	2.97	3.02	3.06	3.11	3.15	3.20
<b>180.0</b>	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00

**Vert.  
Angles**

**Horizontal Angles**

	<b><u>250.0</u></b>	<b><u>252.5</u></b>	<b><u>255.0</u></b>	<b><u>257.5</u></b>	<b><u>260.0</u></b>	<b><u>262.5</u></b>	<b><u>265.0</u></b>	<b><u>267.5</u></b>	<b><u>270.0</u></b>	<b><u>272.5</u></b>
<b>0.0</b>	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65
<b>2.5</b>	1146.02	1151.51	1157.01	1162.50	1168.00	1173.50	1178.99	1184.49	1189.99	1194.61
<b>5.0</b>	1133.09	1144.39	1155.69	1166.99	1178.30	1189.60	1200.90	1212.20	1223.50	1228.01
<b>7.5</b>	1098.30	1112.09	1125.89	1139.68	1153.47	1167.26	1181.05	1194.84	1208.64	1218.91
<b>10.0</b>	993.95	1013.98	1034.01	1054.04	1074.08	1094.11	1114.14	1134.17	1154.20	1166.37
<b>12.5</b>	950.61	975.55	1000.49	1025.43	1050.37	1075.31	1100.25	1125.19	1150.13	1168.29
<b>15.0</b>	904.32	929.31	954.29	979.28	1004.27	1029.26	1054.24	1079.23	1104.22	1129.96
<b>17.5</b>	850.54	879.55	908.57	937.59	966.60	995.62	1024.64	1053.65	1082.67	1111.69
<b>20.0</b>	787.52	820.64	853.75	886.87	919.99	953.11	986.22	1019.34	1052.46	1083.59
<b>22.5</b>	738.94	775.64	812.34	849.04	885.74	922.44	959.14	995.84	1032.54	1062.43
<b>25.0</b>	699.06	734.65	770.23	805.82	841.40	876.99	912.57	948.16	983.74	1018.09



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : SWPM-WB-LED-PL2-40.IES**

**CANDELA TABULATION - (Cont.)**

27.5	654.46	688.41	722.36	756.31	790.26	824.21	858.15	892.10	926.05	961.97
30.0	602.62	639.65	676.69	713.73	750.76	787.80	824.84	861.87	898.91	932.29
32.5	558.41	593.66	628.90	664.15	699.40	734.64	769.89	805.13	840.38	882.80
35.0	519.26	554.78	590.30	625.82	661.35	696.87	732.39	767.91	803.43	844.81
37.5	470.54	508.69	546.83	584.97	623.11	661.26	699.40	737.54	775.69	817.49
40.0	432.88	469.65	506.42	543.19	579.95	616.72	653.49	690.26	727.03	768.86
42.5	398.27	434.56	470.85	507.14	543.43	579.73	616.02	652.31	688.60	733.00
45.0	354.41	389.69	424.97	460.25	495.53	530.81	566.09	601.37	636.65	683.52
47.5	319.75	354.84	389.93	425.03	460.12	495.21	530.30	565.40	600.49	648.89
50.0	290.89	324.36	357.84	391.31	424.79	458.26	491.74	525.21	558.69	608.07
52.5	263.66	294.74	325.83	356.91	388.00	419.08	450.17	481.25	512.34	561.89
55.0	234.88	265.07	295.27	325.47	355.66	385.86	416.06	446.25	476.45	526.36
57.5	211.18	241.13	271.09	301.04	330.99	360.95	390.90	420.86	450.81	500.63
60.0	189.21	218.84	248.48	278.11	307.75	337.38	367.02	396.65	426.29	476.20
62.5	166.36	195.09	223.82	252.55	281.27	310.00	338.73	367.46	396.19	450.91
65.0	148.05	173.74	199.42	225.11	250.80	276.49	302.17	327.86	353.55	411.27
67.5	132.75	155.53	178.30	201.07	223.84	246.62	269.39	292.16	314.94	375.45
70.0	118.18	137.83	157.48	177.13	196.77	216.42	236.07	255.72	275.37	333.78
72.5	104.37	121.25	138.13	155.01	171.89	188.77	205.65	222.53	239.41	297.53
75.0	91.91	105.55	119.18	132.82	146.46	160.10	173.73	187.37	201.01	255.49
77.5	80.91	92.11	103.32	114.53	125.73	136.94	148.15	159.35	170.56	226.89
80.0	71.67	80.57	89.46	98.36	107.26	116.16	125.05	133.95	142.85	198.20
82.5	64.36	70.51	76.66	82.81	88.96	95.11	101.26	107.41	113.56	167.45
85.0	58.64	62.76	66.88	71.00	75.13	79.25	83.37	87.49	91.61	144.05
87.5	54.37	57.29	60.21	63.13	66.06	68.98	71.90	74.82	77.75	127.80
90.0	50.13	52.62	55.10	57.59	60.08	62.57	65.05	67.54	70.03	113.25
92.5	46.30	48.90	51.51	54.12	56.73	59.33	61.94	64.55	67.16	106.06
95.0	42.87	45.95	49.03	52.11	55.19	58.27	61.35	64.43	67.51	102.74
97.5	39.47	43.02	46.58	50.13	53.69	57.24	60.80	64.35	67.91	97.59
100.0	36.24	40.18	44.12	48.06	52.01	55.95	59.89	63.83	67.77	93.63
102.5	32.72	36.93	41.14	45.35	49.57	53.78	57.99	62.20	66.42	89.05
105.0	29.69	34.09	38.49	42.89	47.29	51.69	56.09	60.49	64.89	84.19
107.5	27.01	31.43	35.85	40.27	44.69	49.11	53.53	57.95	62.37	78.79
110.0	24.35	28.75	33.14	37.53	41.93	46.32	50.71	55.11	59.50	73.56
112.5	22.21	26.45	30.69	34.93	39.17	43.41	47.65	51.89	56.14	68.27
115.0	20.23	24.24	28.24	32.24	36.25	40.25	44.25	48.26	52.26	62.67
117.5	18.50	22.18	25.87	29.55	33.24	36.93	40.61	44.30	47.99	57.21
120.0	16.86	20.18	23.51	26.84	30.16	33.49	36.82	40.14	43.47	51.78
122.5	15.06	18.12	21.17	24.23	27.28	30.34	33.39	36.45	39.51	46.98
125.0	13.34	16.13	18.91	21.69	24.48	27.26	30.04	32.83	35.61	42.34
127.5	11.81	14.35	16.88	19.42	21.96	24.49	27.03	29.56	32.10	38.07
130.0	10.45	12.70	14.95	17.20	19.45	21.70	23.95	26.20	28.45	33.67
132.5	9.53	11.49	13.46	15.42	17.38	19.35	21.31	23.27	25.24	29.62
135.0	8.49	10.20	11.90	13.61	15.31	17.02	18.72	20.43	22.13	25.83
137.5	7.37	8.87	10.36	11.85	13.35	14.84	16.33	17.83	19.32	22.21
140.0	6.43	7.69	8.94	10.20	11.45	12.71	13.96	15.22	16.47	18.66
142.5	5.56	6.62	7.67	8.73	9.78	10.84	11.89	12.95	14.01	15.54
145.0	4.64	5.47	6.29	7.12	7.94	8.77	9.59	10.42	11.24	12.23
147.5	3.65	4.33	5.02	5.70	6.38	7.06	7.74	8.42	9.11	9.85
150.0	3.08	3.60	4.13	4.65	5.17	5.69	6.22	6.74	7.26	7.80
152.5	2.86	3.20	3.53	3.87	4.20	4.54	4.87	5.21	5.55	5.96
155.0	2.69	2.90	3.10	3.30	3.51	3.71	3.91	4.12	4.32	4.58
157.5	2.56	2.66	2.77	2.87	2.97	3.08	3.18	3.28	3.39	3.51
160.0	2.43	2.44	2.44	2.45	2.46	2.47	2.47	2.48	2.49	2.54
162.5	2.37	2.35	2.33	2.31	2.29	2.27	2.25	2.23	2.22	2.20
165.0	2.45	2.42	2.40	2.37	2.34	2.31	2.29	2.26	2.23	2.19

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : SWPM-WB-LED-PL2-40.IES**

**CANDELA TABULATION - (Cont.)**

<b>167.5</b>	3.40	3.30	3.21	3.11	3.01	2.92	2.82	2.73	2.63	2.58
<b>170.0</b>	3.50	3.41	3.31	3.22	3.13	3.04	2.94	2.85	2.76	2.75
<b>172.5</b>	3.52	3.43	3.35	3.26	3.17	3.08	3.00	2.91	2.82	2.83
<b>175.0</b>	3.53	3.45	3.36	3.28	3.19	3.11	3.02	2.94	2.85	2.90
<b>177.5</b>	3.16	3.13	3.09	3.06	3.02	2.99	2.95	2.92	2.88	2.95
<b>180.0</b>	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b>275.0</b>	<b>277.5</b>	<b>280.0</b>	<b>282.5</b>	<b>285.0</b>	<b>287.5</b>	<b>290.0</b>	<b>292.5</b>	<b>295.0</b>	<b>297.5</b>
<b>0.0</b>	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65
<b>2.5</b>	1199.23	1203.86	1208.48	1213.11	1217.73	1222.36	1226.98	1231.61	1232.64	1233.68
<b>5.0</b>	1232.53	1237.04	1241.56	1246.07	1250.59	1255.10	1259.62	1264.13	1269.10	1274.07
<b>7.5</b>	1229.18	1239.46	1249.73	1260.00	1270.28	1280.55	1290.82	1301.10	1313.09	1325.08
<b>10.0</b>	1178.54	1190.71	1202.88	1215.05	1227.22	1239.39	1251.56	1263.73	1292.83	1321.94
<b>12.5</b>	1186.46	1204.63	1222.80	1240.97	1259.14	1277.31	1295.48	1313.65	1327.22	1340.80
<b>15.0</b>	1155.70	1181.44	1207.18	1232.93	1258.67	1284.41	1310.15	1335.89	1349.48	1363.07
<b>17.5</b>	1140.71	1169.74	1198.76	1227.78	1256.80	1285.83	1314.85	1343.87	1354.32	1364.77
<b>20.0</b>	1114.72	1145.85	1176.98	1208.12	1239.25	1270.38	1301.51	1332.64	1354.61	1376.58
<b>22.5</b>	1092.32	1122.21	1152.10	1181.99	1211.88	1241.77	1271.66	1301.55	1325.22	1348.89
<b>25.0</b>	1052.44	1086.78	1121.13	1155.48	1189.83	1224.17	1258.52	1292.87	1308.48	1324.09
<b>27.5</b>	997.89	1033.80	1069.72	1105.64	1141.56	1177.47	1213.39	1249.31	1270.05	1290.79
<b>30.0</b>	965.67	999.05	1032.43	1065.81	1099.19	1132.57	1165.95	1199.33	1226.35	1253.38
<b>32.5</b>	925.22	967.65	1010.07	1052.49	1094.91	1137.34	1179.76	1222.18	1264.85	1307.53
<b>35.0</b>	886.19	927.57	968.95	1010.33	1051.71	1093.09	1134.47	1175.85	1215.14	1254.43
<b>37.5</b>	859.29	901.09	942.89	984.69	1026.50	1068.30	1110.10	1151.90	1178.78	1205.66
<b>40.0</b>	810.68	852.51	894.33	936.16	977.98	1019.81	1061.63	1103.46	1133.50	1163.54
<b>42.5</b>	777.39	821.79	866.19	910.58	954.98	999.38	1043.77	1088.17	1121.10	1154.03
<b>45.0</b>	730.39	777.25	824.12	870.99	917.86	964.72	1011.59	1058.46	1095.00	1131.54
<b>47.5</b>	697.29	745.68	794.08	842.48	890.88	939.27	987.67	1036.07	1074.69	1113.31
<b>50.0</b>	657.45	706.84	756.22	805.60	854.98	904.37	953.75	1003.13	1043.86	1084.60
<b>52.5</b>	611.44	660.99	710.54	760.10	809.65	859.20	908.75	958.31	999.13	1039.96
<b>55.0</b>	576.26	626.17	676.07	725.98	775.88	825.79	875.69	925.60	969.68	1013.77
<b>57.5</b>	550.44	600.26	650.08	699.90	749.71	799.53	849.35	899.16	950.17	1001.18
<b>60.0</b>	526.11	576.03	625.94	675.85	725.76	775.68	825.59	875.50	931.05	986.60
<b>62.5</b>	505.64	560.36	615.09	669.82	724.54	779.27	833.99	888.72	942.01	995.29
<b>65.0</b>	469.00	526.72	584.44	642.17	699.89	757.61	815.34	873.06	922.57	972.09
<b>67.5</b>	435.97	496.49	557.01	617.53	678.05	738.56	799.08	859.60	909.43	959.27
<b>70.0</b>	392.20	450.61	509.02	567.44	625.85	684.26	742.68	801.09	854.87	908.64
<b>72.5</b>	355.65	413.78	471.90	530.02	588.14	646.26	704.38	762.51	821.18	879.85
<b>75.0</b>	309.97	364.44	418.92	473.40	527.88	582.35	636.83	691.31	755.05	818.79
<b>77.5</b>	283.23	339.56	395.89	452.22	508.56	564.89	621.22	677.56	736.30	795.05
<b>80.0</b>	253.55	308.90	364.25	419.60	474.95	530.30	585.65	641.00	698.40	755.80
<b>82.5</b>	221.35	275.24	329.13	383.03	436.92	490.81	544.71	598.60	665.63	732.66
<b>85.0</b>	196.49	248.92	301.36	353.80	406.24	458.67	511.11	563.55	626.19	688.83
<b>87.5</b>	177.85	227.91	277.96	328.01	378.07	428.12	478.18	528.23	585.45	642.68
<b>90.0</b>	156.47	199.70	242.92	286.14	329.36	372.59	415.81	459.03	515.99	572.96
<b>92.5</b>	144.96	183.86	222.76	261.66	300.56	339.46	378.36	417.27	474.41	531.55
<b>95.0</b>	137.97	173.20	208.43	243.67	278.90	314.13	349.36	384.59	439.36	494.12
<b>97.5</b>	127.26	156.94	186.61	216.29	245.96	275.64	305.31	334.99	389.91	444.82
<b>100.0</b>	119.50	145.36	171.23	197.09	222.96	248.82	274.69	300.55	353.33	406.12
<b>102.5</b>	111.69	134.33	156.97	179.61	202.25	224.88	247.52	270.16	318.57	366.99
<b>105.0</b>	103.49	122.79	142.09	161.38	180.68	199.98	219.28	238.58	284.70	330.82
<b>107.5</b>	95.22	111.64	128.06	144.49	160.91	177.33	193.76	210.18	251.88	293.59
<b>110.0</b>	87.62	101.67	115.73	129.79	143.85	157.90	171.96	186.02	225.58	265.13
<b>112.5</b>	80.40	92.53	104.66	116.79	128.93	141.06	153.19	165.32	202.01	238.71

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : SWPM-WB-LED-PL2-40.IES**

**CANDELA TABULATION - (Cont.)**

<b>115.0</b>	73.09	83.50	93.91	104.33	114.74	125.15	135.57	145.98	178.83	211.68
<b>117.5</b>	66.44	75.66	84.89	94.11	103.34	112.56	121.79	131.01	159.59	188.17
<b>120.0</b>	60.08	68.39	76.69	85.00	93.30	101.61	109.91	118.22	143.16	168.11
<b>122.5</b>	54.45	61.92	69.39	76.86	84.33	91.80	99.27	106.75	128.50	150.26
<b>125.0</b>	49.07	55.80	62.53	69.27	76.00	82.73	89.46	96.19	115.13	134.06
<b>127.5</b>	44.04	50.01	55.98	61.95	67.92	73.89	79.86	85.83	102.07	118.31
<b>130.0</b>	38.88	44.10	49.31	54.53	59.74	64.96	70.17	75.39	89.70	104.00
<b>132.5</b>	34.00	38.38	42.76	47.14	51.52	55.90	60.28	64.67	77.72	90.77
<b>135.0</b>	29.52	33.22	36.91	40.61	44.30	48.00	51.69	55.39	67.11	78.83
<b>137.5</b>	25.09	27.98	30.86	33.75	36.64	39.52	42.41	45.30	56.24	67.19
<b>140.0</b>	20.84	23.03	25.22	27.40	29.59	31.78	33.96	36.15	46.30	56.46
<b>142.5</b>	17.08	18.62	20.16	21.70	23.24	24.78	26.32	27.86	36.90	45.94
<b>145.0</b>	13.21	14.20	15.18	16.17	17.15	18.14	19.12	20.11	27.86	35.61
<b>147.5</b>	10.59	11.34	12.08	12.83	13.57	14.32	15.06	15.81	21.98	28.15
<b>150.0</b>	8.34	8.89	9.43	9.97	10.51	11.06	11.60	12.14	16.62	21.09
<b>152.5</b>	6.38	6.80	7.22	7.63	8.05	8.47	8.89	9.31	11.92	14.54
<b>155.0</b>	4.84	5.10	5.36	5.62	5.88	6.14	6.40	6.66	8.19	9.72
<b>157.5</b>	3.64	3.77	3.90	4.03	4.16	4.29	4.42	4.55	5.23	5.91
<b>160.0</b>	2.59	2.64	2.69	2.75	2.80	2.85	2.90	2.95	2.91	2.87
<b>162.5</b>	2.18	2.16	2.14	2.12	2.10	2.08	2.06	2.05	2.00	1.96
<b>165.0</b>	2.15	2.12	2.08	2.04	2.00	1.97	1.93	1.89	1.88	1.87
<b>167.5</b>	2.53	2.47	2.42	2.37	2.32	2.26	2.21	2.16	2.13	2.10
<b>170.0</b>	2.74	2.73	2.72	2.72	2.71	2.70	2.69	2.68	2.64	2.59
<b>172.5</b>	2.84	2.85	2.86	2.87	2.88	2.89	2.90	2.91	2.88	2.86
<b>175.0</b>	2.95	2.99	3.04	3.09	3.14	3.18	3.23	3.28	3.25	3.23
<b>177.5</b>	3.03	3.10	3.18	3.25	3.33	3.40	3.48	3.55	3.51	3.47
<b>180.0</b>	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00

**Vert. Angles Horizontal Angles**

	<u><b>300.0</b></u>	<u><b>302.5</b></u>	<u><b>305.0</b></u>	<u><b>307.5</b></u>	<u><b>310.0</b></u>	<u><b>312.5</b></u>	<u><b>315.0</b></u>	<u><b>317.5</b></u>	<u><b>320.0</b></u>	<u><b>322.5</b></u>
<b>0.0</b>	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65
<b>2.5</b>	1234.72	1235.76	1236.80	1237.84	1238.88	1239.92	1240.96	1242.74	1244.51	1246.29
<b>5.0</b>	1279.03	1284.00	1288.97	1293.94	1298.90	1303.87	1308.84	1311.67	1314.51	1317.34
<b>7.5</b>	1337.07	1349.06	1361.05	1373.04	1385.03	1397.02	1409.01	1412.87	1416.72	1420.58
<b>10.0</b>	1351.04	1380.14	1409.25	1438.35	1467.45	1496.56	1525.66	1521.31	1516.95	1512.60
<b>12.5</b>	1354.37	1367.94	1381.51	1395.09	1408.66	1422.23	1435.81	1443.04	1450.27	1457.51
<b>15.0</b>	1376.65	1390.24	1403.83	1417.42	1431.00	1444.59	1458.18	1481.11	1504.03	1526.96
<b>17.5</b>	1375.22	1385.67	1396.11	1406.56	1417.01	1427.46	1437.91	1462.54	1487.16	1511.79
<b>20.0</b>	1398.55	1420.52	1442.50	1464.47	1486.44	1508.41	1530.38	1541.44	1552.51	1563.57
<b>22.5</b>	1372.56	1396.23	1419.89	1443.56	1467.23	1490.90	1514.57	1521.51	1528.44	1535.38
<b>25.0</b>	1339.70	1355.31	1370.92	1386.53	1402.14	1417.75	1433.36	1458.86	1484.36	1509.85
<b>27.5</b>	1311.53	1332.26	1353.00	1373.74	1394.48	1415.22	1435.96	1460.82	1485.68	1510.54
<b>30.0</b>	1280.40	1307.43	1334.45	1361.48	1388.50	1415.53	1442.55	1459.03	1475.50	1491.98
<b>32.5</b>	1350.20	1392.87	1435.55	1478.22	1520.89	1563.57	1606.24	1615.97	1625.69	1635.42
<b>35.0</b>	1293.71	1333.00	1372.29	1411.58	1450.86	1490.15	1529.44	1546.66	1563.89	1581.11
<b>37.5</b>	1232.54	1259.42	1286.30	1313.18	1340.06	1366.94	1393.82	1428.24	1462.67	1497.10
<b>40.0</b>	1193.59	1223.63	1253.67	1283.71	1313.76	1343.80	1373.84	1414.54	1455.24	1495.94
<b>42.5</b>	1186.97	1219.90	1252.83	1285.76	1318.70	1351.63	1384.56	1421.63	1458.71	1495.78
<b>45.0</b>	1168.08	1204.62	1241.15	1277.69	1314.23	1350.77	1387.31	1431.18	1475.06	1518.93
<b>47.5</b>	1151.94	1190.56	1229.18	1267.80	1306.42	1345.04	1383.67	1431.65	1479.64	1527.63
<b>50.0</b>	1125.33	1166.06	1206.80	1247.53	1288.26	1329.00	1369.73	1422.81	1475.88	1528.96
<b>52.5</b>	1080.79	1121.62	1162.45	1203.28	1244.11	1284.94	1325.77	1386.45	1447.13	1507.82
<b>55.0</b>	1057.85	1101.93	1146.02	1190.10	1234.18	1278.27	1322.35	1388.83	1455.31	1521.79
<b>57.5</b>	1052.19	1103.20	1154.21	1205.22	1256.23	1307.24	1358.25	1423.27	1488.29	1553.31
<b>60.0</b>	1042.16	1097.71	1153.26	1208.81	1264.37	1319.92	1375.47	1430.18	1484.89	1539.60

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : SWPM-WB-LED-PL2-40.IES**

**CANDELA TABULATION - (Cont.)**

62.5	1048.58	1101.87	1155.16	1208.44	1261.73	1315.02	1368.31	1422.31	1476.31	1530.32
65.0	1021.60	1071.12	1120.63	1170.15	1219.66	1269.18	1318.69	1383.48	1448.27	1513.07
67.5	1009.10	1058.94	1108.77	1158.60	1208.44	1258.27	1308.11	1383.26	1458.42	1533.58
70.0	962.42	1016.19	1069.97	1123.74	1177.52	1231.29	1285.07	1362.82	1440.58	1518.33
72.5	938.52	997.19	1055.86	1114.53	1173.20	1231.87	1290.54	1358.36	1426.18	1494.01
75.0	882.53	946.27	1010.01	1073.75	1137.49	1201.23	1264.97	1330.61	1396.26	1461.90
77.5	853.80	912.55	971.30	1030.05	1088.79	1147.54	1206.29	1271.00	1335.70	1400.41
80.0	813.21	870.61	928.01	985.41	1042.82	1100.22	1157.62	1241.10	1324.58	1408.06
82.5	799.69	866.72	933.75	1000.78	1067.81	1134.84	1201.87	1271.27	1340.66	1410.06
85.0	751.47	814.11	876.75	939.39	1002.03	1064.67	1127.31	1194.17	1261.02	1327.88
87.5	699.90	757.12	814.34	871.57	928.79	986.01	1043.24	1119.06	1194.88	1270.70
90.0	629.92	686.88	743.85	800.81	857.77	914.74	971.70	1041.90	1112.10	1182.30
92.5	588.69	645.84	702.98	760.12	817.26	874.41	931.55	1000.33	1069.11	1137.89
95.0	548.89	603.66	658.42	713.19	767.96	822.72	877.49	943.60	1009.71	1075.82
97.5	499.74	554.66	609.57	664.49	719.41	774.32	829.24	889.25	949.27	1009.28
100.0	458.90	511.69	564.47	617.26	670.04	722.83	775.61	836.38	897.15	957.92
102.5	415.40	463.81	512.22	560.64	609.05	657.46	705.88	762.67	819.46	876.25
105.0	376.94	423.06	469.17	515.29	561.41	607.53	653.65	707.37	761.10	814.82
107.5	335.29	377.00	418.70	460.41	502.11	543.82	585.52	638.22	690.92	743.63
110.0	304.69	344.25	383.80	423.36	462.92	502.47	542.03	586.90	631.77	676.63
112.5	275.40	312.10	348.79	385.48	422.18	458.87	495.57	536.49	577.42	618.35
115.0	244.54	277.39	310.24	343.09	375.95	408.80	441.65	480.22	518.78	557.35
117.5	216.76	245.34	273.92	302.50	331.08	359.66	388.25	423.58	458.92	494.26
120.0	193.05	218.00	242.94	267.89	292.83	317.78	342.72	374.15	405.58	437.00
122.5	172.01	193.77	215.53	237.28	259.04	280.79	302.55	328.57	354.58	380.60
125.0	153.00	171.93	190.87	209.80	228.74	247.67	266.61	287.81	309.02	330.22
127.5	134.54	150.78	167.02	183.26	199.49	215.73	231.97	249.53	267.09	284.64
130.0	118.31	132.61	146.92	161.22	175.53	189.83	204.14	218.02	231.90	245.77
132.5	103.82	116.87	129.92	142.97	156.02	169.07	182.12	192.86	203.60	214.34
135.0	90.55	102.27	113.99	125.71	137.43	149.15	160.87	169.46	178.04	186.63
137.5	78.13	89.08	100.02	110.97	121.91	132.86	143.81	150.35	156.89	163.43
140.0	66.61	76.76	86.92	97.07	107.22	117.38	127.53	132.50	137.46	142.43
142.5	54.98	64.02	73.06	82.10	91.14	100.18	109.22	113.41	117.60	121.79
145.0	43.35	51.10	58.85	66.60	74.34	82.09	89.84	93.65	97.46	101.27
147.5	34.32	40.49	46.67	52.84	59.01	65.18	71.36	75.34	79.32	83.30
150.0	25.57	30.04	34.52	38.99	43.47	47.94	52.42	56.73	61.03	65.34
152.5	17.15	19.77	22.38	25.00	27.61	30.23	32.84	37.23	41.63	46.02
155.0	11.25	12.78	14.30	15.83	17.36	18.89	20.42	24.08	27.74	31.40
157.5	6.59	7.27	7.95	8.63	9.31	9.99	10.68	13.04	15.41	17.77
160.0	2.83	2.79	2.76	2.72	2.68	2.64	2.60	4.16	5.72	7.28
162.5	1.92	1.88	1.84	1.80	1.76	1.72	1.68	2.38	3.09	3.79
165.0	1.86	1.85	1.84	1.83	1.82	1.81	1.80	1.77	1.74	1.72
167.5	2.07	2.04	2.01	1.98	1.95	1.92	1.89	1.84	1.79	1.74
170.0	2.55	2.51	2.46	2.42	2.38	2.33	2.29	2.22	2.16	2.09
172.5	2.84	2.82	2.80	2.78	2.76	2.74	2.72	2.64	2.56	2.48
175.0	3.20	3.17	3.15	3.12	3.09	3.07	3.04	2.95	2.87	2.78
177.5	3.43	3.39	3.35	3.31	3.27	3.23	3.19	3.13	3.07	3.00
180.0	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00

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

	<u>325.0</u>	<u>327.5</u>	<u>330.0</u>	<u>332.5</u>	<u>335.0</u>	<u>337.5</u>	<u>340.0</u>	<u>342.5</u>	<u>345.0</u>	<u>347.5</u>
0.0	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65	1186.65
2.5	1248.06	1249.84	1251.62	1253.39	1255.17	1256.95	1257.65	1258.36	1259.07	1259.78
5.0	1320.17	1323.01	1325.84	1328.67	1331.51	1334.34	1336.97	1339.60	1342.23	1344.86
7.5	1424.43	1428.29	1432.14	1436.00	1439.85	1443.71	1444.33	1444.96	1445.58	1446.21

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : SWPM-WB-LED-PL2-40.IES**

**CANDELA TABULATION - (Cont.)**

10.0	1508.25	1503.89	1499.54	1495.19	1490.83	1486.48	1481.85	1477.22	1472.59	1467.96
12.5	1464.74	1471.98	1479.21	1486.45	1493.68	1500.92	1503.49	1506.07	1508.64	1511.22
15.0	1549.89	1572.81	1595.74	1618.67	1641.59	1664.52	1665.53	1666.54	1667.56	1668.57
17.5	1536.41	1561.04	1585.66	1610.29	1634.91	1659.54	1654.83	1650.13	1645.42	1640.72
20.0	1574.64	1585.70	1596.77	1607.83	1618.90	1629.96	1625.79	1621.62	1617.45	1613.28
22.5	1542.31	1549.25	1556.19	1563.12	1570.06	1577.00	1582.78	1588.56	1594.34	1600.13
25.0	1535.35	1560.85	1586.35	1611.84	1637.34	1662.84	1669.89	1676.94	1684.00	1691.05
27.5	1535.40	1560.26	1585.12	1609.98	1634.84	1659.70	1649.70	1639.71	1629.71	1619.72
30.0	1508.46	1524.93	1541.41	1557.89	1574.36	1590.84	1602.65	1614.46	1626.28	1638.09
32.5	1645.14	1654.87	1664.59	1674.32	1684.04	1693.77	1697.60	1701.42	1705.25	1709.08
35.0	1598.33	1615.56	1632.78	1650.00	1667.23	1684.45	1705.52	1726.59	1747.67	1768.74
37.5	1531.53	1565.96	1600.39	1634.82	1669.25	1703.68	1713.32	1722.96	1732.60	1742.24
40.0	1536.64	1577.35	1618.05	1658.75	1699.45	1740.15	1744.53	1748.91	1753.29	1757.67
42.5	1532.85	1569.92	1607.00	1644.07	1681.14	1718.22	1746.29	1774.36	1802.43	1830.50
45.0	1562.81	1606.68	1650.56	1694.43	1738.31	1782.18	1806.01	1829.84	1853.66	1877.49
47.5	1575.62	1623.60	1671.59	1719.58	1767.57	1815.56	1842.18	1868.80	1895.42	1922.04
50.0	1582.03	1635.11	1688.18	1741.26	1794.33	1847.41	1872.83	1898.25	1923.67	1949.09
52.5	1568.50	1629.18	1689.86	1750.54	1811.22	1871.91	1887.44	1902.97	1918.50	1934.03
55.0	1588.27	1654.75	1721.23	1787.71	1854.19	1920.67	1949.51	1978.34	2007.18	2036.01
57.5	1618.33	1683.35	1748.37	1813.39	1878.41	1943.43	1958.57	1973.71	1988.84	2003.98
60.0	1594.31	1649.02	1703.73	1758.44	1813.15	1867.86	1888.59	1909.33	1930.06	1950.80
62.5	1584.32	1638.33	1692.33	1746.34	1800.34	1854.35	1879.36	1904.37	1929.38	1954.39
65.0	1577.86	1642.65	1707.44	1772.24	1837.03	1901.82	1927.35	1952.89	1978.42	2003.96
67.5	1608.73	1683.89	1759.05	1834.21	1909.36	1984.52	2006.91	2029.30	2051.69	2074.08
70.0	1596.08	1673.84	1751.59	1829.34	1907.10	1984.85	2002.40	2019.95	2037.50	2055.05
72.5	1561.83	1629.65	1697.47	1765.29	1833.11	1900.94	1926.98	1953.02	1979.06	2005.10
75.0	1527.55	1593.19	1658.84	1724.48	1790.13	1855.77	1873.70	1891.63	1909.55	1927.48
77.5	1465.12	1529.82	1594.53	1659.24	1723.94	1788.65	1815.64	1842.63	1869.63	1896.62
80.0	1491.54	1575.03	1658.51	1741.99	1825.47	1908.95	1941.38	1973.81	2006.24	2038.67
82.5	1479.45	1548.85	1618.24	1687.64	1757.03	1826.43	1852.95	1879.46	1905.98	1932.50
85.0	1394.74	1461.59	1528.45	1595.31	1662.16	1729.02	1762.03	1795.04	1828.06	1861.07
87.5	1346.52	1422.35	1498.17	1573.99	1649.81	1725.64	1747.18	1768.72	1790.27	1811.81
90.0	1252.50	1322.69	1392.89	1463.09	1533.29	1603.49	1633.30	1663.10	1692.91	1722.71
92.5	1206.67	1275.46	1344.24	1413.02	1481.80	1550.58	1573.00	1595.42	1617.84	1640.26
95.0	1141.93	1208.03	1274.14	1340.25	1406.36	1472.47	1493.63	1514.80	1535.96	1557.12
97.5	1069.30	1129.31	1189.32	1249.34	1309.35	1369.37	1389.69	1410.01	1430.34	1450.66
100.0	1018.69	1079.47	1140.24	1201.01	1261.78	1322.55	1342.01	1361.47	1380.93	1400.39
102.5	933.04	989.83	1046.63	1103.42	1160.21	1217.00	1238.66	1260.32	1281.98	1303.64
105.0	868.55	922.27	976.00	1029.72	1083.45	1137.17	1151.54	1165.92	1180.29	1194.66
107.5	796.33	849.03	901.73	954.43	1007.13	1059.84	1060.29	1060.74	1061.20	1061.65
110.0	721.50	766.37	811.24	856.10	900.97	945.84	937.36	928.89	920.41	911.93
112.5	659.28	700.20	741.13	782.06	822.99	863.92	856.68	849.45	842.22	834.99
115.0	595.92	634.48	673.05	711.62	750.18	788.75	786.24	783.73	781.22	778.71
117.5	529.60	564.94	600.28	635.62	670.96	706.30	702.64	698.99	695.34	691.69
120.0	468.43	499.86	531.29	562.71	594.14	625.57	621.58	617.58	613.59	609.59
122.5	406.61	432.63	458.65	484.66	510.68	536.70	534.91	533.13	531.35	529.57
125.0	351.43	372.63	393.84	415.04	436.25	457.45	458.36	459.26	460.17	461.08
127.5	302.20	319.76	337.32	354.87	372.43	389.99	391.73	393.48	395.22	396.97
130.0	259.65	273.53	287.41	301.28	315.16	329.04	331.85	334.65	337.46	340.27
132.5	225.08	235.82	246.56	257.30	268.04	278.78	281.70	284.63	287.56	290.48
135.0	195.22	203.80	212.39	220.98	229.56	238.15	240.61	243.08	245.54	248.00
137.5	169.97	176.51	183.06	189.60	196.14	202.68	205.10	207.52	209.94	212.36
140.0	147.40	152.36	157.33	162.30	167.26	172.23	174.27	176.30	178.34	180.38
142.5	125.98	130.16	134.35	138.54	142.73	146.92	149.02	151.11	153.21	155.30
145.0	105.08	108.89	112.70	116.51	120.32	124.13	126.34	128.55	130.76	132.97
147.5	87.28	91.26	95.24	99.22	103.20	107.18	109.77	112.37	114.97	117.57

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : SWPM-WB-LED-PL2-40.IES**

**CANDELA TABULATION - (Cont.)**

<b>150.0</b>	69.64	73.95	78.25	82.56	86.86	91.17	93.93	96.68	99.44	102.20
<b>152.5</b>	50.42	54.81	59.20	63.60	67.99	72.39	75.24	78.09	80.95	83.80
<b>155.0</b>	35.06	38.72	42.38	46.04	49.70	53.36	55.99	58.62	61.26	63.89
<b>157.5</b>	20.14	22.51	24.87	27.24	29.60	31.97	34.51	37.05	39.59	42.13
<b>160.0</b>	8.84	10.40	11.96	13.52	15.08	16.64	18.13	19.62	21.11	22.60
<b>162.5</b>	4.50	5.20	5.91	6.61	7.32	8.02	8.73	9.43	10.14	10.84
<b>165.0</b>	1.69	1.66	1.63	1.61	1.58	1.55	1.85	2.15	2.44	2.74
<b>167.5</b>	1.69	1.63	1.58	1.53	1.48	1.43	1.41	1.40	1.38	1.36
<b>170.0</b>	2.03	1.96	1.90	1.83	1.77	1.70	1.65	1.60	1.54	1.49
<b>172.5</b>	2.40	2.32	2.24	2.16	2.08	2.01	1.94	1.87	1.81	1.74
<b>175.0</b>	2.69	2.61	2.52	2.43	2.35	2.26	2.21	2.16	2.11	2.06
<b>177.5</b>	2.94	2.88	2.82	2.75	2.69	2.63	2.56	2.49	2.43	2.36
<b>180.0</b>	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00

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

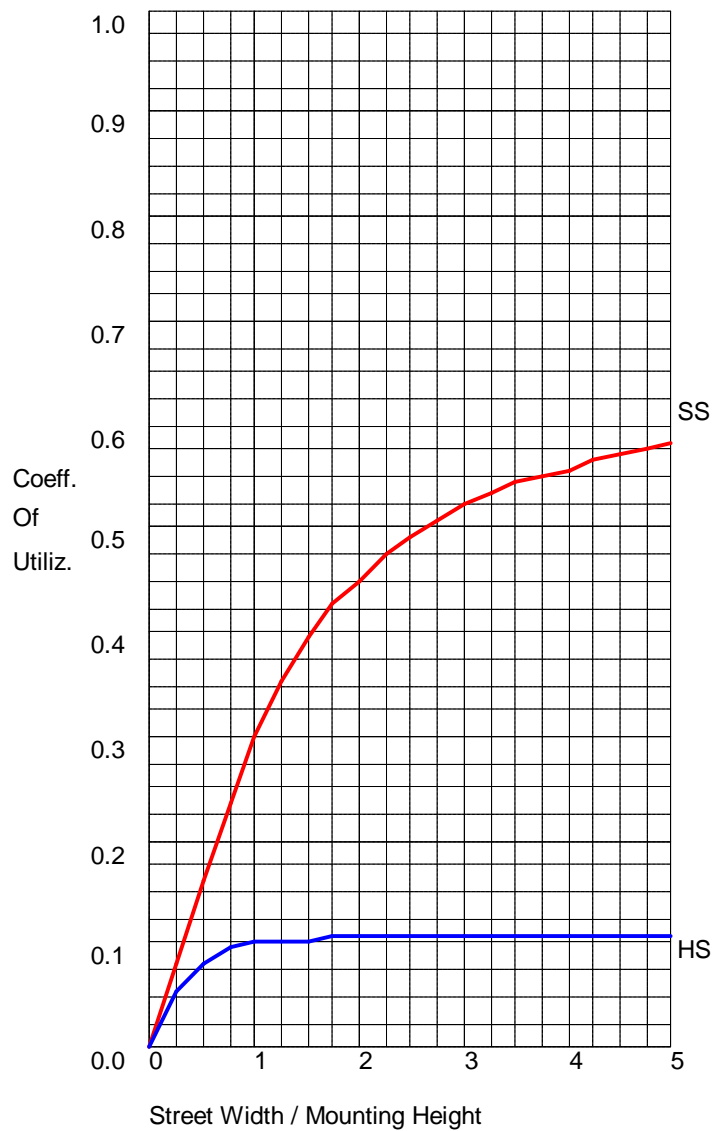
	<u><b>350.0</b></u>	<u><b>352.5</b></u>	<u><b>355.0</b></u>	<u><b>357.5</b></u>	<u><b>360.0</b></u>
<b>0.0</b>	1186.65	1186.65	1186.65	1186.65	1186.65
<b>2.5</b>	1260.49	1261.20	1261.91	1262.62	1263.33
<b>5.0</b>	1347.49	1350.12	1352.75	1355.38	1358.01
<b>7.5</b>	1446.83	1447.45	1448.08	1448.70	1449.33
<b>10.0</b>	1463.34	1458.71	1454.08	1449.45	1444.82
<b>12.5</b>	1513.79	1516.37	1518.94	1521.52	1524.10
<b>15.0</b>	1669.58	1670.59	1671.61	1672.62	1673.63
<b>17.5</b>	1636.01	1631.31	1626.60	1621.90	1617.19
<b>20.0</b>	1609.11	1604.94	1600.77	1596.60	1592.43
<b>22.5</b>	1605.91	1611.69	1617.47	1623.26	1629.04
<b>25.0</b>	1698.10	1705.15	1712.21	1719.26	1726.31
<b>27.5</b>	1609.72	1599.72	1589.73	1579.73	1569.74
<b>30.0</b>	1649.90	1661.71	1673.53	1685.34	1697.15
<b>32.5</b>	1712.90	1716.73	1720.56	1724.38	1728.21
<b>35.0</b>	1789.81	1810.88	1831.96	1853.03	1874.10
<b>37.5</b>	1751.87	1761.51	1771.15	1780.79	1790.43
<b>40.0</b>	1762.05	1766.43	1770.81	1775.19	1779.57
<b>42.5</b>	1858.57	1886.64	1914.71	1942.78	1970.85
<b>45.0</b>	1901.32	1925.15	1948.97	1972.80	1996.63
<b>47.5</b>	1948.66	1975.28	2001.90	2028.52	2055.15
<b>50.0</b>	1974.50	1999.92	2025.34	2050.76	2076.18
<b>52.5</b>	1949.56	1965.09	1980.62	1996.15	2011.68
<b>55.0</b>	2064.85	2093.68	2122.52	2151.35	2180.19
<b>57.5</b>	2019.11	2034.25	2049.38	2064.52	2079.65
<b>60.0</b>	1971.53	1992.27	2013.00	2033.74	2054.47
<b>62.5</b>	1979.40	2004.41	2029.42	2054.43	2079.44
<b>65.0</b>	2029.49	2055.03	2080.56	2106.10	2131.63
<b>67.5</b>	2096.47	2118.86	2141.25	2163.64	2186.03
<b>70.0</b>	2072.59	2090.14	2107.69	2125.24	2142.79
<b>72.5</b>	2031.14	2057.18	2083.22	2109.26	2135.30
<b>75.0</b>	1945.41	1963.34	1981.26	1999.19	2017.12
<b>77.5</b>	1923.61	1950.60	1977.60	2004.59	2031.58
<b>80.0</b>	2071.10	2103.53	2135.96	2168.39	2200.82
<b>82.5</b>	1959.01	1985.53	2012.05	2038.56	2065.08
<b>85.0</b>	1894.08	1927.09	1960.11	1993.12	2026.13
<b>87.5</b>	1833.35	1854.90	1876.44	1897.98	1919.53
<b>90.0</b>	1752.52	1782.32	1812.13	1841.93	1871.74
<b>92.5</b>	1662.68	1685.10	1707.52	1729.94	1752.36
<b>95.0</b>	1578.29	1599.45	1620.61	1641.78	1662.94

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : SWPM-WB-LED-PL2-40.IES**

**CANDELA TABULATION - (Cont.)**

<b>97.5</b>	1470.99	1491.31	1511.64	1531.96	1552.29
<b>100.0</b>	1419.84	1439.30	1458.76	1478.22	1497.68
<b>102.5</b>	1325.29	1346.95	1368.61	1390.27	1411.93
<b>105.0</b>	1209.04	1223.41	1237.78	1252.16	1266.53
<b>107.5</b>	1062.10	1062.56	1063.01	1063.46	1063.92
<b>110.0</b>	903.46	894.98	886.50	878.03	869.55
<b>112.5</b>	827.76	820.53	813.30	806.07	798.84
<b>115.0</b>	776.21	773.70	771.19	768.68	766.17
<b>117.5</b>	688.03	684.38	680.73	677.08	673.43
<b>120.0</b>	605.60	601.60	597.61	593.61	589.62
<b>122.5</b>	527.79	526.01	524.23	522.45	520.67
<b>125.0</b>	461.98	462.89	463.80	464.70	465.61
<b>127.5</b>	398.71	400.45	402.20	403.94	405.69
<b>130.0</b>	343.07	345.88	348.69	351.49	354.30
<b>132.5</b>	293.41	296.34	299.26	302.19	305.12
<b>135.0</b>	250.47	252.93	255.39	257.86	260.32
<b>137.5</b>	214.78	217.20	219.62	222.04	224.47
<b>140.0</b>	182.41	184.45	186.49	188.52	190.56
<b>142.5</b>	157.40	159.49	161.59	163.68	165.78
<b>145.0</b>	135.18	137.39	139.60	141.81	144.02
<b>147.5</b>	120.17	122.77	125.37	127.97	130.57
<b>150.0</b>	104.95	107.71	110.47	113.22	115.98
<b>152.5</b>	86.66	89.51	92.37	95.22	98.08
<b>155.0</b>	66.52	69.15	71.79	74.42	77.05
<b>157.5</b>	44.68	47.22	49.76	52.30	54.84
<b>160.0</b>	24.08	25.57	27.06	28.55	30.04
<b>162.5</b>	11.55	12.25	12.96	13.66	14.37
<b>165.0</b>	3.04	3.34	3.63	3.93	4.23
<b>167.5</b>	1.35	1.33	1.31	1.30	1.28
<b>170.0</b>	1.44	1.39	1.33	1.28	1.23
<b>172.5</b>	1.67	1.61	1.54	1.48	1.41
<b>175.0</b>	2.02	1.97	1.92	1.87	1.82
<b>177.5</b>	2.29	2.22	2.16	2.09	2.02
<b>180.0</b>	2.00	2.00	2.00	2.00	2.00

COEFFICIENTS OF UTILIZATION

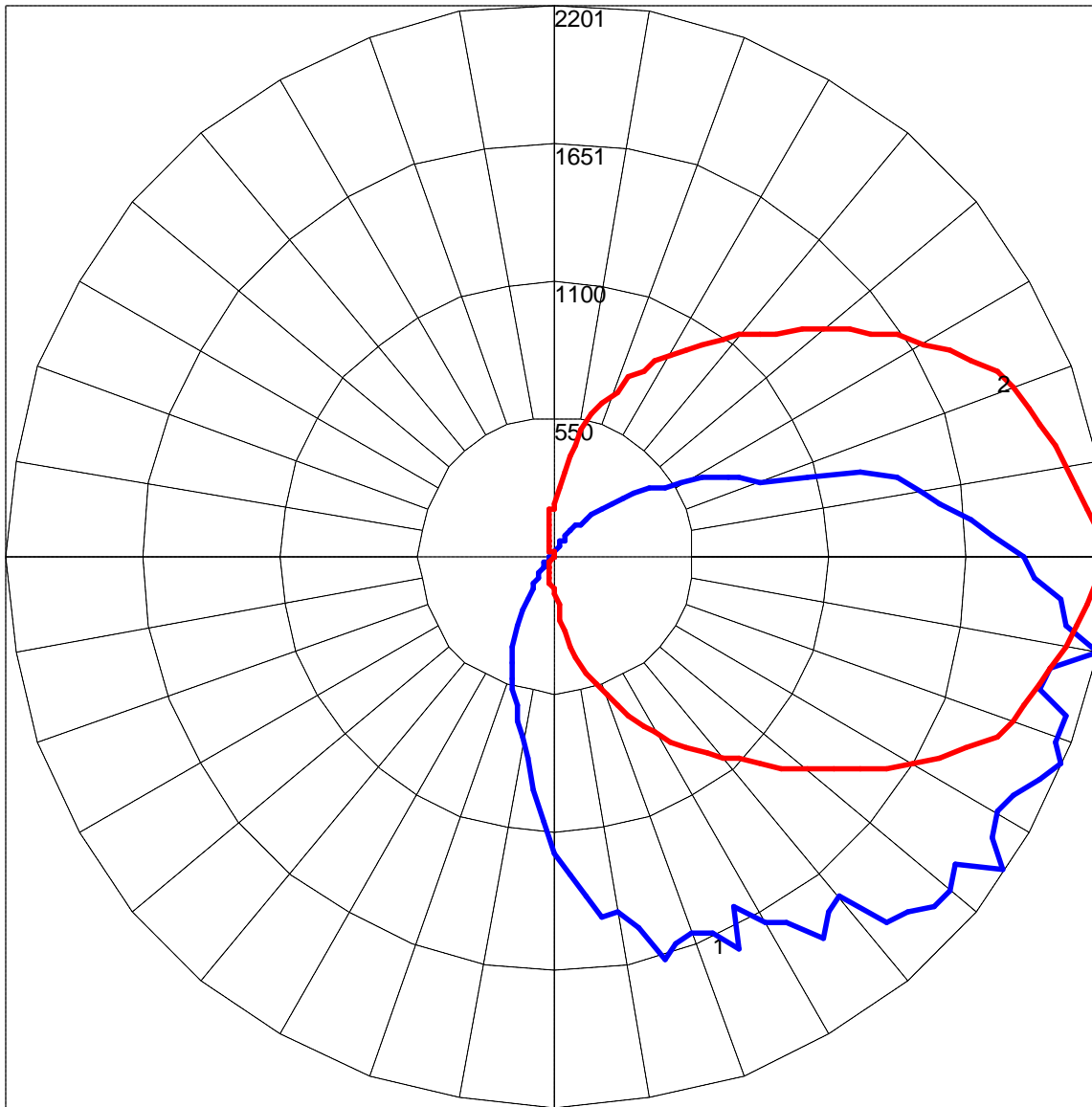


FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	4192.3	67.2
Downward House Side	686.8	11.0
Downward Total	4879.1	78.2
Upward Street Side	1319.4	21.1
Upward House Side	40.7	0.7
Upward Total	1360.1	21.8
Total Flux	6239.2	100.0

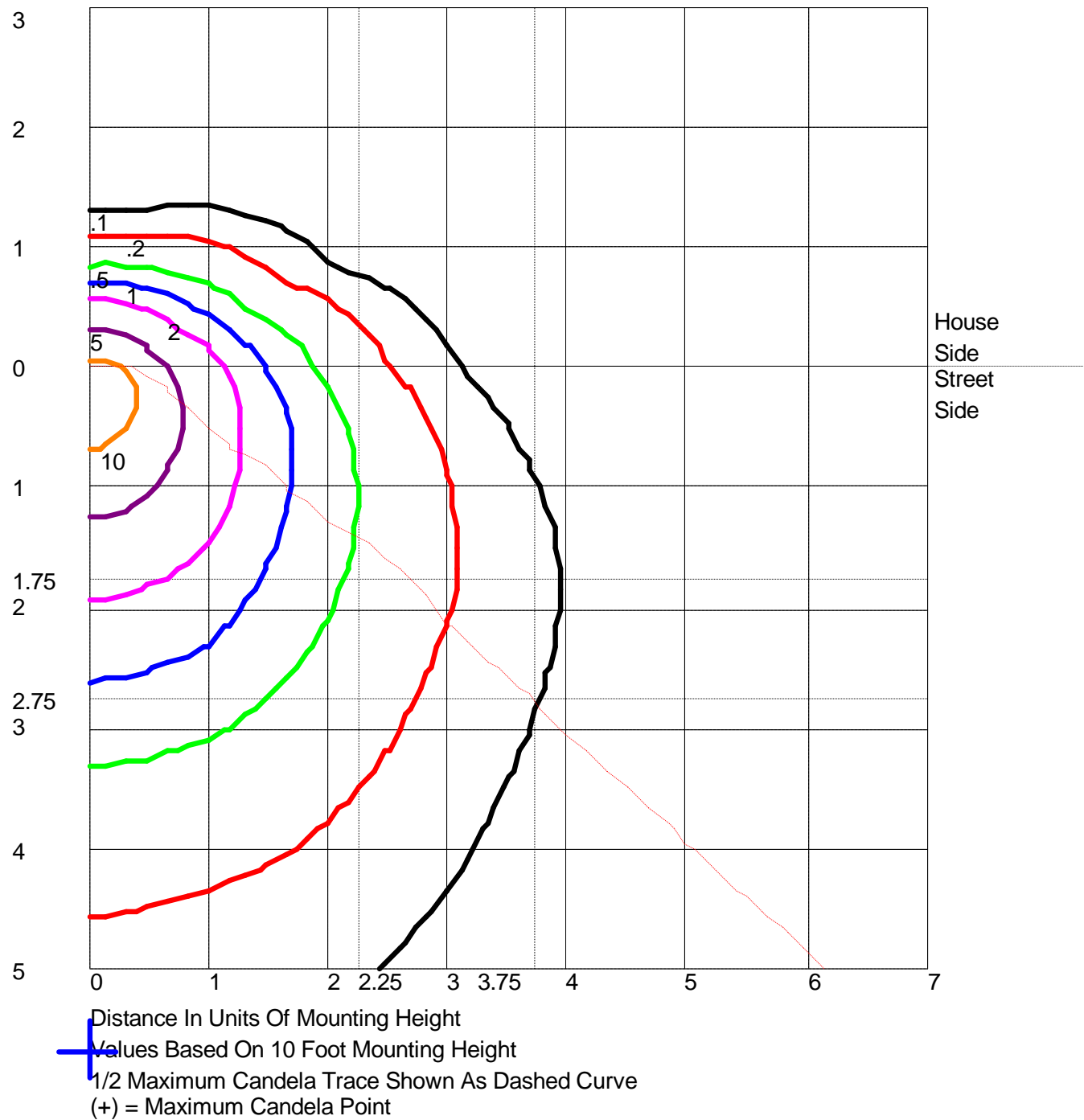


POLAR GRAPH

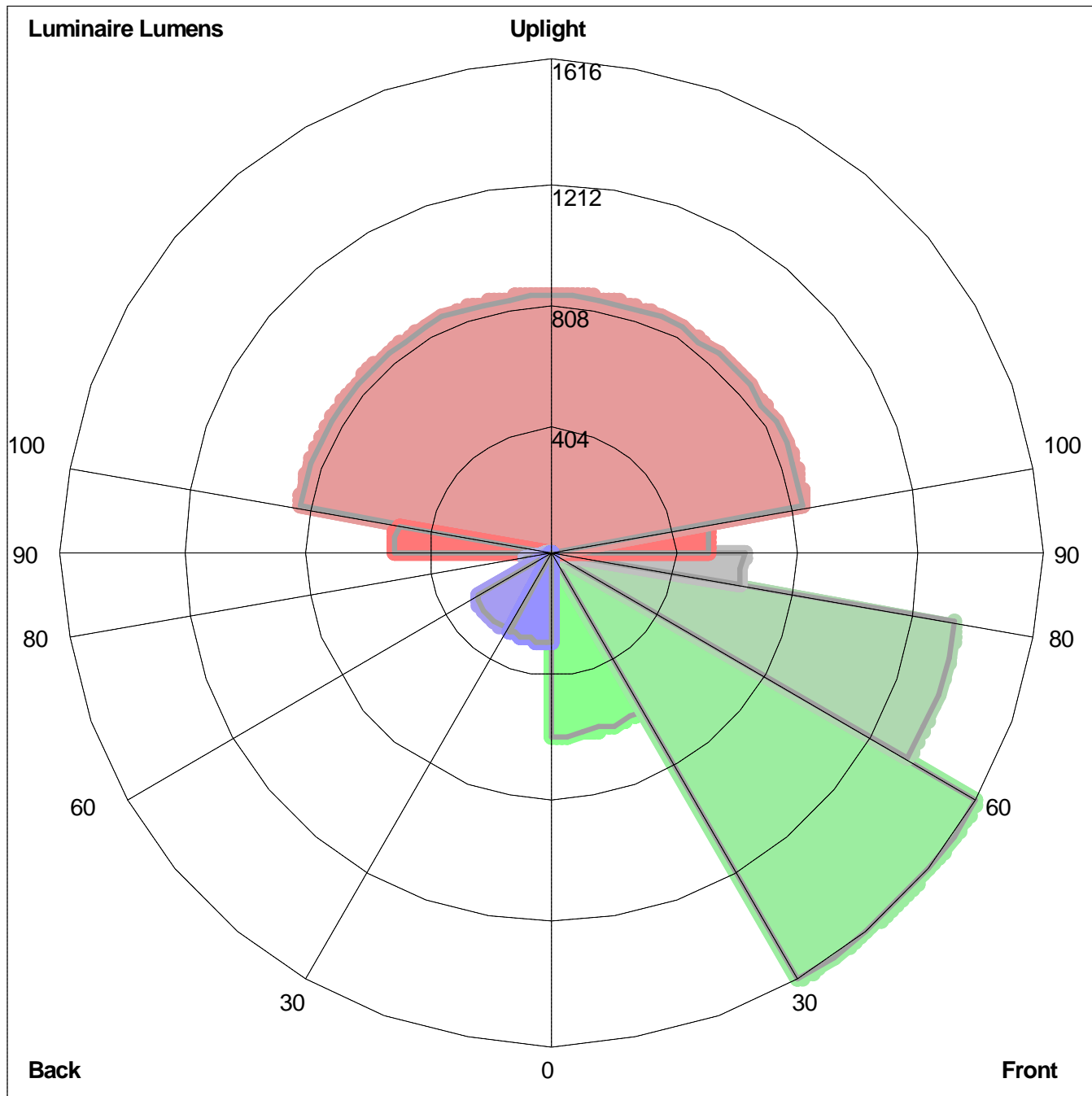


Maximum Candela = 2200.82 Located At Horizontal Angle = 360, Vertical Angle = 80  
# 1 - Vertical Plane Through Horizontal Angles (360 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (80) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=600.0, Medium=1616.4, High=1348.8, Very High=627.1  
Back: Low=293.0, Medium=289.6, High=84.6, Very High=19.5  
Uplight: Low=516.2, High=843.9

BUG Rating : B1-U4-G4