



IES FLOOD REPORT

PHOTOMETRIC FILENAME : TMFL-LED-05L-W-30.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] 3529

[TESTLAB] TUV SUD America

[TESTDATE] 9/19/2018 10:43:14 AM

[ISSUEDATE] 01/07/2019

[MANUFAC] LSI INDUSTRIES, INC

[LUMCAT] TMFL-LED-05L-W-30

[OTHER] TEST PROCEDURE: IESNA LM-79-08

[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED

[OTHER] SCALED FROM ORIGINAL TEST DATA

[SEARCH_SOURCETYPE] LED

[SEARCH_APPLICATION] Outdoor

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

CHARACTERISTICS

| | |
|------------------------------|-----------------|
| NEMA Type | 7 H x 7 V |
| Maximum Candela | 2022.989 |
| Maximum Candela Angle | -1H 0V |
| Horizontal Beam Angle (50%) | 108.7 |
| Vertical Beam Angle (50%) | 100.7 |
| Horizontal Field Angle (10%) | 146.4 |
| Vertical Field Angle (10%) | 138.2 |
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Beam Lumens | 3950 |
| Beam Efficiency | N.A. |
| Field Lumens | 4923 |
| Field Efficiency | N.A. |
| Spill Lumens | 113 |
| Luminaire Lumens | 5036 |
| Total Efficiency | N.A. |
| Total Luminaire Watts | 43.19 |
| Ballast Factor | 1.00 |

IES FLOOD REPORT
PHOTOMETRIC FILENAME : TMFL-LED-05L-W-30.IES

AXIAL CANDELA

| DEG. | HOR. | DEG. | VERT. |
|-------|----------|-------|----------|
| 90 | .002 | 90 | 0 |
| 85 | 1.68 | 85 | 0 |
| 75 | 128.762 | 75 | 0 |
| 65 | 539.505 | 65 | 2.803 |
| 55 | 986.736 | 55 | 370.48 |
| 47.5 | 1271.115 | 47.5 | 858.966 |
| 42.5 | 1457.564 | 42.5 | 1183.324 |
| 37.5 | 1593.814 | 37.5 | 1450.046 |
| 33 | 1690.704 | 33 | 1621.48 |
| 29 | 1766.835 | 29 | 1723.689 |
| 25.5 | 1826.227 | 25.5 | 1790.083 |
| 22.5 | 1869.45 | 22.5 | 1838.942 |
| 19.5 | 1906.26 | 19.5 | 1880.692 |
| 17 | 1934.016 | 17 | 1910.858 |
| 15 | 1955.217 | 15 | 1930.983 |
| 13 | 1972.638 | 13 | 1949.666 |
| 11 | 1987.405 | 11 | 1966.601 |
| 9 | 1999.103 | 9 | 1980.921 |
| 7 | 2008.108 | 7 | 1992.153 |
| 5 | 2015.596 | 5 | 2000.216 |
| 3 | 2021.675 | 3 | 2007.606 |
| 1 | 2022.989 | 1 | 2017.492 |
| 0 | 2022.851 | 0 | 2022.851 |
| -1 | 2022.989 | -1 | 2021.171 |
| -3 | 2021.675 | -3 | 2018.209 |
| -5 | 2015.596 | -5 | 2016.436 |
| -7 | 2008.108 | -7 | 2011.498 |
| -9 | 1999.103 | -9 | 2004.957 |
| -11 | 1987.405 | -11 | 1996.968 |
| -13 | 1972.638 | -13 | 1986.875 |
| -15 | 1955.217 | -15 | 1973.219 |
| -17 | 1934.016 | -17 | 1957.96 |
| -19.5 | 1906.26 | -19.5 | 1935.105 |
| -22.5 | 1869.45 | -22.5 | 1903.945 |
| -25.5 | 1826.227 | -25.5 | 1866.517 |
| -29 | 1766.835 | -29 | 1815.28 |
| -33 | 1690.704 | -33 | 1748.295 |
| -37.5 | 1593.814 | -37.5 | 1664.787 |
| -42.5 | 1457.564 | -42.5 | 1521.12 |
| -47.5 | 1271.115 | -47.5 | 1303.596 |
| -55 | 986.736 | -55 | 1025.976 |
| -65 | 539.505 | -65 | 710.432 |
| -75 | 128.762 | -75 | 303.018 |
| -85 | 1.68 | -85 | 19.823 |
| -90 | .002 | -90 | .038 |

IES FLOOD REPORT
PHOTOMETRIC FILENAME : TMFL-LED-05L-W-30.IES

CANDELA TABULATION

Maximum Candela = 2022.989

Beam Edge = 1011.4945 Cd (50% of Max.)

Field Edge = 202.2989 Cd (10% of Max.)

* Indicates Values Inside Field Edge

| Vert. Angles | Horizontal Angles | | | | | | | | | |
|-----------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | <u>-90.0</u> | <u>-85.0</u> | <u>-75.0</u> | <u>-65.0</u> | <u>-55.0</u> | <u>-47.5</u> | <u>-42.5</u> | <u>-37.5</u> | <u>-33.0</u> | <u>-29.0</u> |
| 90.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 85.0 | 0.000 | 0.056 | 0.072 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 75.0 | 0.000 | 0.169 | 0.388 | 0.057 | 0.297 | 0.235 | 0.000 | 0.000 | 0.004 | 0.044 |
| 65.0 | 0.001 | 0.280 | 1.910 | 2.137 | 14.842 | 19.516 | 12.718 | 19.573 | 26.830 | 27.577 |
| 55.0 | 0.001 | 0.491 | 7.339 | 31.723 | 109.411 | 169.028 | 199.622 | 253.935 * | 291.683 * | 314.575 * |
| 47.5 | 0.001 | 0.717 | 14.709 | 89.359 | 260.499 * | 396.809 * | 479.078 * | 599.564 * | 672.386 * | 735.432 * |
| 42.5 | 0.001 | 0.862 | 24.722 | 143.320 | 380.180 * | 561.452 * | 699.267 * | 826.312 * | 943.613 * | 1022.664 * |
| 37.5 | 0.001 | 1.000 | 34.996 | 205.785 * | 514.790 * | 747.325 * | 887.868 * | 1043.222 * | 1167.107 * | 1247.938 * |
| 33.0 | 0.001 | 1.117 | 44.731 | 264.266 * | 617.987 * | 878.556 * | 1038.239 * | 1192.022 * | 1317.139 * | 1406.302 * |
| 29.0 | 0.001 | 1.215 | 58.453 | 314.655 * | 697.704 * | 984.706 * | 1150.011 * | 1297.193 * | 1416.780 * | 1502.460 * |
| 25.5 | 0.002 | 1.296 | 69.953 | 358.569 * | 762.258 * | 1060.550 * | 1224.978 * | 1373.181 * | 1485.042 * | 1563.532 * |
| 22.5 | 0.002 | 1.360 | 79.353 | 388.180 * | 811.523 * | 1107.854 * | 1280.538 * | 1428.886 * | 1533.360 * | 1609.527 * |
| 19.5 | 0.002 | 1.420 | 88.259 | 418.465 * | 853.868 * | 1149.334 * | 1321.265 * | 1472.716 * | 1573.836 * | 1648.935 * |
| 17.0 | 0.002 | 1.467 | 95.248 | 441.438 * | 882.995 * | 1178.892 * | 1351.452 * | 1501.960 * | 1602.418 * | 1675.415 * |
| 15.0 | 0.002 | 1.502 | 100.526 | 458.295 * | 903.686 * | 1199.078 * | 1373.414 * | 1522.354 * | 1622.594 * | 1694.433 * |
| 13.0 | 0.002 | 1.534 | 105.498 | 473.773 * | 922.058 * | 1216.776 * | 1393.104 * | 1538.659 * | 1640.019 * | 1711.148 * |
| 11.0 | 0.002 | 1.609 | 110.143 | 487.850 * | 938.125 * | 1231.969 * | 1410.328 * | 1553.031 * | 1653.573 * | 1725.659 * |
| 9.0 | 0.002 | 1.621 | 114.436 | 500.507 * | 951.909 * | 1244.651 * | 1425.000 * | 1565.375 * | 1664.657 * | 1738.191 * |
| 7.0 | 0.002 | 1.634 | 118.353 | 511.726 * | 963.441 * | 1254.828 * | 1437.038 * | 1575.607 * | 1673.942 * | 1748.367 * |
| 5.0 | 0.002 | 1.647 | 123.322 | 521.495 * | 972.762 * | 1262.520 * | 1446.376 * | 1583.651 * | 1681.312 * | 1756.303 * |
| 3.0 | 0.002 | 1.660 | 125.495 | 531.467 * | 982.219 * | 1270.407 * | 1456.138 * | 1589.445 * | 1686.663 * | 1762.170 * |
| 1.0 | 0.002 | 1.673 | 127.672 | 536.824 * | 985.229 * | 1270.879 * | 1457.088 * | 1593.232 * | 1689.901 * | 1765.848 * |
| 0.0 | 0.002 | 1.680 | 128.762 | 539.505 * | 986.736 * | 1271.115 * | 1457.564 * | 1593.814 * | 1690.704 * | 1766.835 * |
| -1.0 | 0.002 | 1.680 | 129.684 | 541.771 * | 988.823 * | 1273.426 * | 1459.174 * | 1595.083 * | 1691.650 * | 1767.596 * |
| -3.0 | 0.002 | 1.793 | 131.526 | 546.300 * | 992.993 * | 1278.041 * | 1462.387 * | 1595.011 * | 1691.896 * | 1767.436 * |
| -5.0 | 0.002 | 1.869 | 133.364 | 546.158 * | 990.983 * | 1275.291 * | 1457.166 * | 1592.969 * | 1689.990 * | 1765.151 * |
| -7.0 | 0.002 | 1.944 | 132.226 | 546.154 * | 989.283 * | 1272.752 * | 1452.620 * | 1588.737 * | 1685.999 * | 1760.900 * |
| -9.0 | 0.002 | 2.019 | 132.099 | 544.601 * | 985.697 * | 1267.771 * | 1445.835 * | 1582.398 * | 1680.007 * | 1754.507 * |
| -11.0 | 0.002 | 2.093 | 131.469 | 541.484 * | 980.272 * | 1260.340 * | 1436.994 * | 1574.048 * | 1672.110 * | 1745.839 * |
| -13.0 | 0.002 | 2.084 | 130.332 | 536.795 * | 973.056 * | 1250.461 * | 1426.278 * | 1563.787 * | 1662.065 * | 1735.317 * |
| -15.0 | 0.002 | 2.127 | 128.687 | 530.526 * | 964.100 * | 1238.149 * | 1413.865 * | 1551.722 * | 1649.421 * | 1722.498 * |
| -17.0 | 0.002 | 2.163 | 126.531 | 522.677 * | 953.460 * | 1223.429 * | 1399.210 * | 1536.675 * | 1634.656 * | 1706.877 * |
| -19.5 | 0.002 | 2.198 | 123.119 | 510.646 * | 937.878 * | 1202.753 * | 1375.848 * | 1515.453 * | 1613.285 * | 1684.923 * |
| -22.5 | 0.002 | 2.226 | 117.975 | 492.970 * | 915.347 * | 1174.689 * | 1343.575 * | 1485.350 * | 1582.495 * | 1654.253 * |
| -25.5 | 0.002 | 2.236 | 111.693 | 475.447 * | 889.631 * | 1142.669 * | 1304.202 * | 1448.935 * | 1547.486 * | 1619.607 * |
| -29.0 | 0.001 | 2.225 | 102.941 | 445.421 * | 856.449 * | 1098.929 * | 1251.770 * | 1398.338 * | 1500.598 * | 1575.712 * |
| -33.0 | 0.001 | 2.180 | 91.095 | 410.032 * | 807.939 * | 1036.539 * | 1185.893 * | 1329.452 * | 1437.305 * | 1511.115 * |
| -37.5 | 0.001 | 2.088 | 81.133 | 365.119 * | 741.239 * | 953.282 * | 1093.556 * | 1235.830 * | 1348.926 * | 1419.063 * |
| -42.5 | 0.001 | 1.932 | 68.126 | 310.217 * | 647.956 * | 841.869 * | 965.015 * | 1101.591 * | 1214.003 * | 1276.167 * |
| -47.5 | 0.001 | 1.720 | 52.790 | 253.561 * | 543.122 * | 727.911 * | 825.573 * | 936.826 * | 1033.125 * | 1100.111 * |
| -55.0 | 0.001 | 1.302 | 35.338 | 172.799 | 393.538 * | 551.636 * | 638.223 * | 711.816 * | 782.613 * | 839.179 * |
| -65.0 | 0.001 | 0.836 | 15.717 | 83.715 | 205.709 * | 319.871 * | 390.842 * | 452.762 * | 503.890 * | 545.676 * |
| -75.0 | 0.000 | 0.531 | 5.307 | 23.573 | 61.471 | 101.473 | 132.233 | 156.850 | 178.343 | 200.544 |
| -85.0 | 0.000 | 0.182 | 1.194 | 2.967 | 5.958 | 9.066 | 10.947 | 12.376 | 13.477 | 14.313 |
| -90.0 | 0.000 | 0.000 | 0.002 | 0.006 | 0.010 | 0.014 | 0.017 | 0.020 | 0.022 | 0.024 |

IES FLOOD REPORT
PHOTOMETRIC FILENAME : TMFL-LED-05L-W-30.IES

CANDELA TABULATION - (Cont.)

| Vert. Angles | Horizontal Angles | | | | | | | | | |
|-----------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|
| | <u>-25.5</u> | <u>-22.5</u> | <u>-19.5</u> | <u>-17.0</u> | <u>-15.0</u> | <u>-13.0</u> | <u>-11.0</u> | <u>-9.0</u> | <u>-7.0</u> | <u>-5.0</u> |
| 90.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 85.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 75.0 | 0.039 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 65.0 | 22.314 | 15.898 | 10.712 | 11.735 | 11.973 | 11.750 | 11.117 | 10.129 | 8.841 | 7.310 |
| 55.0 | 345.468 * | 362.755 * | 369.233 * | 374.865 * | 381.374 * | 386.591 * | 390.250 * | 392.084 * | 391.821 * | 389.188 * |
| 47.5 | 790.248 * | 816.768 * | 831.550 * | 837.181 * | 850.536 * | 862.023 * | 871.312 * | 877.873 * | 881.164 * | 880.631 * |
| 42.5 | 1062.671 * | 1096.203 * | 1126.307 * | 1147.927 * | 1159.867 * | 1171.789 * | 1182.162 * | 1190.380 * | 1195.809 * | 1197.793 * |
| 37.5 | 1299.538 * | 1333.734 * | 1368.043 * | 1397.847 * | 1421.612 * | 1432.973 * | 1441.641 * | 1449.463 * | 1455.580 * | 1459.076 * |
| 33.0 | 1455.651 * | 1496.027 * | 1533.240 * | 1559.655 * | 1579.087 * | 1597.688 * | 1608.959 * | 1616.619 * | 1622.279 * | 1625.603 * |
| 29.0 | 1557.333 * | 1595.494 * | 1631.372 * | 1656.887 * | 1676.054 * | 1691.692 * | 1705.183 * | 1714.736 * | 1721.435 * | 1725.063 * |
| 25.5 | 1620.232 * | 1659.554 * | 1694.701 * | 1721.404 * | 1739.861 * | 1756.028 * | 1770.422 * | 1780.258 * | 1786.605 * | 1790.682 * |
| 22.5 | 1663.966 * | 1704.243 * | 1740.627 * | 1767.408 * | 1786.065 * | 1802.483 * | 1817.034 * | 1827.749 * | 1833.992 * | 1838.287 * |
| 19.5 | 1702.058 * | 1743.727 * | 1780.306 * | 1806.614 * | 1825.403 * | 1841.376 * | 1855.322 * | 1866.457 * | 1874.634 * | 1879.651 * |
| 17.0 | 1730.368 * | 1772.239 * | 1808.467 * | 1834.571 * | 1853.832 * | 1869.859 * | 1884.354 * | 1895.678 * | 1904.745 * | 1910.134 * |
| 15.0 | 1749.944 * | 1791.894 * | 1828.430 * | 1855.558 * | 1873.736 * | 1890.888 * | 1904.970 * | 1917.139 * | 1926.166 * | 1931.983 * |
| 13.0 | 1767.198 * | 1809.002 * | 1846.150 * | 1873.327 * | 1892.799 * | 1909.218 * | 1923.579 * | 1935.337 * | 1945.330 * | 1951.582 * |
| 11.0 | 1782.561 * | 1824.117 * | 1862.114 * | 1889.886 * | 1908.647 * | 1925.335 * | 1939.004 * | 1951.085 * | 1960.971 * | 1967.999 * |
| 9.0 | 1795.147 * | 1837.077 * | 1875.363 * | 1903.094 * | 1922.577 * | 1938.453 * | 1952.688 * | 1964.900 * | 1974.307 * | 1981.525 * |
| 7.0 | 1805.675 * | 1848.356 * | 1886.665 * | 1914.034 * | 1932.927 * | 1949.742 * | 1964.656 * | 1976.342 * | 1985.914 * | 1991.997 * |
| 5.0 | 1814.239 * | 1857.363 * | 1895.604 * | 1922.833 * | 1941.759 * | 1958.876 * | 1974.042 * | 1985.755 * | 1994.156 * | 2000.556 * |
| 3.0 | 1820.703 * | 1864.005 * | 1901.603 * | 1929.040 * | 1948.866 * | 1966.290 * | 1980.902 * | 1992.392 * | 2000.760 * | 2006.707 * |
| 1.0 | 1824.956 * | 1868.536 * | 1905.260 * | 1932.926 * | 1954.079 * | 1971.180 * | 1985.819 * | 1997.359 * | 2006.083 * | 2012.998 * |
| 0.0 | 1826.227 * | 1869.450 * | 1906.260 * | 1934.016 * | 1955.217 * | 1972.638 * | 1987.405 * | 1999.103 * | 2008.108 * | 2015.596 * |
| -1.0 | 1826.866 * | 1870.245 * | 1906.745 * | 1934.691 * | 1956.171 * | 1972.945 * | 1987.220 * | 1998.424 * | 2006.945 * | 2014.079 * |
| -3.0 | 1826.400 * | 1869.220 * | 1906.022 * | 1934.264 * | 1955.036 * | 1971.803 * | 1985.357 * | 1995.791 * | 2003.413 * | 2010.252 * |
| -5.0 | 1823.620 * | 1866.300 * | 1902.963 * | 1931.335 * | 1951.723 * | 1968.733 * | 1982.088 * | 1992.012 * | 1999.878 * | 2006.816 * |
| -7.0 | 1818.577 * | 1861.362 * | 1897.563 * | 1925.586 * | 1946.108 * | 1963.620 * | 1976.507 * | 1986.448 * | 1994.486 * | 2001.381 * |
| -9.0 | 1811.354 * | 1854.598 * | 1890.620 * | 1918.353 * | 1938.889 * | 1955.510 * | 1968.911 * | 1979.579 * | 1987.783 * | 1994.735 * |
| -11.0 | 1802.010 * | 1846.392 * | 1882.741 * | 1909.795 * | 1929.201 * | 1946.119 * | 1959.711 * | 1970.485 * | 1979.386 * | 1986.240 * |
| -13.0 | 1790.944 * | 1834.518 * | 1871.968 * | 1899.011 * | 1918.607 * | 1935.119 * | 1948.599 * | 1959.532 * | 1968.662 * | 1975.424 * |
| -15.0 | 1777.930 * | 1820.820 * | 1858.992 * | 1886.973 * | 1905.532 * | 1922.029 * | 1935.117 * | 1946.749 * | 1955.396 * | 1962.649 * |
| -17.0 | 1762.503 * | 1805.118 * | 1843.168 * | 1870.569 * | 1890.328 * | 1905.548 * | 1919.772 * | 1930.857 * | 1940.093 * | 1947.851 * |
| -19.5 | 1739.548 * | 1781.869 * | 1820.361 * | 1846.751 * | 1865.146 * | 1881.504 * | 1896.041 * | 1907.465 * | 1917.319 * | 1925.273 * |
| -22.5 | 1707.985 * | 1749.115 * | 1786.178 * | 1812.983 * | 1831.127 * | 1846.971 * | 1861.048 * | 1872.743 * | 1883.660 * | 1892.284 * |
| -25.5 | 1672.465 * | 1712.269 * | 1748.053 * | 1774.249 * | 1792.394 * | 1808.227 * | 1821.965 * | 1834.000 * | 1844.734 * | 1853.498 * |
| -29.0 | 1625.897 * | 1664.714 * | 1699.373 * | 1724.740 * | 1743.005 * | 1758.514 * | 1772.165 * | 1784.324 * | 1794.524 * | 1802.762 * |
| -33.0 | 1561.664 * | 1600.955 * | 1636.522 * | 1661.469 * | 1678.997 * | 1694.882 * | 1708.234 * | 1719.610 * | 1729.230 * | 1737.032 * |
| -37.5 | 1469.082 * | 1508.166 * | 1543.169 * | 1569.779 * | 1589.758 * | 1605.963 * | 1620.551 * | 1633.250 * | 1643.968 * | 1652.621 * |
| -42.5 | 1321.946 * | 1359.807 * | 1396.322 * | 1426.794 * | 1445.963 * | 1462.653 * | 1477.727 * | 1490.949 * | 1502.080 * | 1510.879 * |
| -47.5 | 1143.180 * | 1171.853 * | 1195.441 * | 1212.277 * | 1234.029 * | 1252.914 * | 1268.827 * | 1281.761 * | 1291.724 * | 1298.734 * |
| -55.0 | 883.873 * | 913.752 * | 937.056 * | 956.304 * | 970.820 * | 983.554 * | 994.541 * | 1003.825 * | 1011.454 * | 1017.483 * |
| -65.0 | 582.840 * | 607.263 * | 631.430 * | 647.993 * | 659.882 * | 670.557 * | 680.014 * | 688.256 * | 695.284 * | 701.105 * |
| -75.0 | 217.195 * | 229.429 * | 243.024 * | 254.149 * | 262.392 * | 270.023 * | 277.016 * | 283.348 * | 288.992 * | 296.324 * |
| -85.0 | 14.938 | 15.398 | 16.122 | 16.704 | 17.149 | 17.575 | 18.343 | 18.612 | 18.881 | 19.150 |
| -90.0 | 0.026 | 0.028 | 0.030 | 0.031 | 0.032 | 0.033 | 0.034 | 0.034 | 0.035 | 0.036 |

| Vert. Angles | Horizontal Angles | | | | | | | | | |
|-----------------|-------------------|-------------|------------|------------|------------|------------|------------|------------|-------------|-------------|
| | <u>-3.0</u> | <u>-1.0</u> | <u>0.0</u> | <u>1.0</u> | <u>3.0</u> | <u>5.0</u> | <u>7.0</u> | <u>9.0</u> | <u>11.0</u> | <u>13.0</u> |
| 90.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 85.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 75.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 65.0 | 5.668 | 3.758 | 2.803 | 3.758 | 5.668 | 7.310 | 8.841 | 10.129 | 11.117 | 11.750 |

IES FLOOD REPORT
PHOTOMETRIC FILENAME : TMFL-LED-05L-W-30.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | | | |
|-------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---|
| 55.0 | 387.470 | * 376.146 | * 370.480 | * 376.145 | * 387.470 | * 389.189 | * 391.821 | * 392.084 | * 390.250 | * 386.591 | * |
| 47.5 | 881.843 | * 866.597 | * 858.966 | * 866.597 | * 881.843 | * 880.631 | * 881.164 | * 877.873 | * 871.312 | * 862.023 | * |
| 42.5 | 1201.747 | *1189.471 | *1183.324 | *1189.471 | *1201.746 | *1197.793 | *1195.809 | *1190.380 | *1182.162 | *1171.789 | * |
| 37.5 | 1458.995 | *1455.095 | *1450.046 | *1455.095 | *1458.995 | *1459.076 | *1455.580 | *1449.464 | *1441.641 | *1432.973 | * |
| 33.0 | 1626.251 | *1623.889 | *1621.480 | *1623.889 | *1626.251 | *1625.603 | *1622.279 | *1616.619 | *1608.959 | *1597.688 | * |
| 29.0 | 1726.358 | *1725.208 | *1723.689 | *1725.208 | *1726.358 | *1725.063 | *1721.435 | *1714.736 | *1705.183 | *1691.692 | * |
| 25.5 | 1792.347 | *1791.486 | *1790.083 | *1791.486 | *1792.347 | *1790.682 | *1786.605 | *1780.258 | *1770.422 | *1756.028 | * |
| 22.5 | 1840.388 | *1840.402 | *1838.942 | *1840.402 | *1840.388 | *1838.287 | *1833.992 | *1827.760 | *1817.034 | *1802.483 | * |
| 19.5 | 1881.935 | *1881.717 | *1880.692 | *1881.717 | *1881.935 | *1879.651 | *1874.634 | *1866.457 | *1855.322 | *1841.376 | * |
| 17.0 | 1912.517 | *1912.026 | *1910.858 | *1912.026 | *1912.517 | *1910.134 | *1904.745 | *1895.678 | *1884.354 | *1869.859 | * |
| 15.0 | 1933.823 | *1932.975 | *1930.983 | *1932.975 | *1933.823 | *1931.983 | *1926.166 | *1917.139 | *1904.970 | *1890.888 | * |
| 13.0 | 1952.801 | *1951.405 | *1949.666 | *1951.405 | *1952.801 | *1951.582 | *1945.330 | *1935.337 | *1923.579 | *1909.218 | * |
| 11.0 | 1969.749 | *1968.339 | *1966.601 | *1968.339 | *1969.749 | *1967.999 | *1960.971 | *1951.085 | *1939.004 | *1925.335 | * |
| 9.0 | 1984.416 | *1982.736 | *1980.921 | *1982.736 | *1984.416 | *1981.525 | *1974.307 | *1964.900 | *1952.688 | *1938.453 | * |
| 7.0 | 1996.295 | *1994.292 | *1992.153 | *1994.292 | *1996.295 | *1991.997 | *1985.914 | *1976.342 | *1964.656 | *1949.742 | * |
| 5.0 | 2004.251 | *2003.521 | *2000.216 | *2003.521 | *2004.251 | *2000.556 | *1994.156 | *1985.755 | *1974.042 | *1958.876 | * |
| 3.0 | 2011.361 | *2012.324 | *2007.606 | *2012.324 | *2011.364 | *2006.707 | *2000.760 | *1992.392 | *1980.902 | *1966.290 | * |
| 1.0 | 2017.246 | *2019.657 | *2017.492 | *2019.657 | *2017.246 | *2012.998 | *2006.083 | *1997.359 | *1985.819 | *1971.180 | * |
| 0.0 | 2021.675 | *2022.989 | *2022.851 | *2022.989 | *2021.675 | *2015.596 | *2008.108 | *1999.103 | *1987.405 | *1972.638 | * |
| -1.0 | 2018.718 | *2021.603 | *2021.171 | *2021.603 | *2018.718 | *2014.079 | *2006.945 | *1998.424 | *1987.220 | *1972.945 | * |
| -3.0 | 2016.124 | *2018.670 | *2018.209 | *2018.670 | *2016.126 | *2010.252 | *2003.413 | *1995.791 | *1985.357 | *1971.803 | * |
| -5.0 | 2012.045 | *2015.789 | *2016.436 | *2015.789 | *2012.045 | *2006.816 | *1999.878 | *1992.012 | *1982.088 | *1968.733 | * |
| -7.0 | 2006.780 | *2010.357 | *2011.498 | *2010.357 | *2006.780 | *2001.381 | *1994.486 | *1986.448 | *1976.507 | *1963.620 | * |
| -9.0 | 1999.958 | *2003.695 | *2004.957 | *2003.695 | *1999.958 | *1994.735 | *1987.783 | *1979.579 | *1968.911 | *1955.510 | * |
| -11.0 | 1991.653 | *1995.615 | *1996.968 | *1995.615 | *1991.653 | *1986.240 | *1979.386 | *1970.485 | *1959.711 | *1946.119 | * |
| -13.0 | 1981.265 | *1985.478 | *1986.875 | *1985.478 | *1981.265 | *1975.424 | *1968.662 | *1959.532 | *1948.599 | *1935.119 | * |
| -15.0 | 1968.309 | *1972.325 | *1973.219 | *1972.325 | *1968.309 | *1962.649 | *1955.396 | *1946.749 | *1935.117 | *1922.029 | * |
| -17.0 | 1953.364 | *1956.861 | *1957.960 | *1956.861 | *1953.364 | *1947.851 | *1940.093 | *1930.857 | *1919.772 | *1905.548 | * |
| -19.5 | 1930.650 | *1934.080 | *1935.105 | *1934.080 | *1930.650 | *1925.273 | *1917.319 | *1907.465 | *1896.041 | *1881.504 | * |
| -22.5 | 1898.616 | *1902.969 | *1903.945 | *1902.969 | *1898.616 | *1892.284 | *1883.660 | *1872.751 | *1861.048 | *1846.971 | * |
| -25.5 | 1860.237 | *1864.933 | *1866.517 | *1864.933 | *1860.237 | *1853.498 | *1844.734 | *1834.000 | *1821.965 | *1808.227 | * |
| -29.0 | 1809.199 | *1813.742 | *1815.280 | *1813.742 | *1809.199 | *1802.762 | *1794.524 | *1784.324 | *1772.165 | *1758.514 | * |
| -33.0 | 1742.966 | *1746.998 | *1748.295 | *1746.998 | *1742.966 | *1737.032 | *1729.230 | *1719.610 | *1708.234 | *1694.882 | * |
| -37.5 | 1659.139 | *1663.744 | *1664.787 | *1663.744 | *1659.139 | *1652.621 | *1643.968 | *1633.250 | *1620.551 | *1605.963 | * |
| -42.5 | 1520.510 | *1520.916 | *1521.120 | *1520.916 | *1520.510 | *1510.879 | *1502.080 | *1490.949 | *1477.727 | *1462.653 | * |
| -47.5 | 1305.986 | *1304.393 | *1303.596 | *1304.393 | *1305.986 | *1298.734 | *1291.724 | *1281.761 | *1268.827 | *1252.914 | * |
| -55.0 | 1023.549 | *1025.167 | *1025.976 | *1025.167 | *1023.549 | *1017.483 | *1011.454 | *1003.825 | *994.541 | *983.554 | * |
| -65.0 | 707.050 | *709.305 | *710.432 | *709.305 | *707.050 | *701.105 | *695.284 | *688.256 | *680.014 | *670.557 | * |
| -75.0 | 299.001 | *301.679 | *303.018 | *301.679 | *299.001 | *296.324 | *288.992 | *283.348 | *277.016 | *270.023 | * |
| -85.0 | 19.419 | 19.688 | 19.823 | 19.688 | 19.419 | 19.150 | 18.881 | 18.612 | 18.343 | 17.575 | |
| -90.0 | 0.037 | 0.038 | 0.038 | 0.038 | 0.037 | 0.036 | 0.035 | 0.034 | 0.034 | 0.033 | |

**Vert.
Angles**

Horizontal Angles

| | <u>15.0</u> | <u>17.0</u> | <u>19.5</u> | <u>22.5</u> | <u>25.5</u> | <u>29.0</u> | <u>33.0</u> | <u>37.5</u> | <u>42.5</u> | <u>47.5</u> |
|------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 90.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 85.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 75.0 | 0.000 | 0.000 | 0.000 | 0.010 | 0.039 | 0.044 | 0.004 | 0.000 | 0.000 | 0.235 |
| 65.0 | 11.973 | 11.735 | 10.712 | 15.898 | 22.314 | 27.577 | 26.830 | 19.573 | 12.718 | 19.516 |
| 55.0 | 381.374 | * 374.865 | * 369.233 | * 362.755 | * 345.468 | * 314.575 | * 291.683 | * 253.934 | * 199.622 | 169.028 |
| 47.5 | 850.536 | * 837.436 | * 831.550 | * 816.768 | * 790.248 | * 735.432 | * 672.386 | * 599.564 | * 479.078 | * 396.809 |
| 42.5 | 1159.867 | *1147.927 | *1126.307 | *1096.203 | *1062.671 | *1022.664 | *943.613 | * 826.312 | * 699.267 | * 561.453 |
| 37.5 | 1421.612 | *1397.847 | *1368.043 | *1333.734 | *1299.538 | *1247.938 | *1167.107 | *1043.222 | *887.868 | * 747.325 |
| 33.0 | 1579.087 | *1559.655 | *1533.240 | *1496.027 | *1455.651 | *1406.302 | *1317.139 | *1192.022 | *1038.239 | *878.556 |
| 29.0 | 1676.054 | *1656.887 | *1631.372 | *1595.494 | *1557.333 | *1502.460 | *1416.780 | *1297.193 | *1150.011 | *984.706 |
| 25.5 | 1739.861 | *1721.404 | *1694.701 | *1659.554 | *1620.232 | *1563.532 | *1485.042 | *1373.181 | *1224.978 | *1060.550 |

IES FLOOD REPORT
PHOTOMETRIC FILENAME : TMFL-LED-05L-W-30.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | | | |
|--------------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---|
| 22.5 | 1786.065 | *1767.408 | *1740.627 | *1704.243 | *1663.966 | *1609.527 | *1533.360 | *1428.886 | *1280.538 | *1107.854 | * |
| 19.5 | 1825.403 | *1806.614 | *1780.306 | *1743.727 | *1702.058 | *1648.935 | *1573.836 | *1472.716 | *1321.265 | *1149.334 | * |
| 17.0 | 1853.832 | *1834.570 | *1808.467 | *1772.239 | *1730.368 | *1675.415 | *1602.418 | *1501.960 | *1351.452 | *1178.892 | * |
| 15.0 | 1873.736 | *1855.558 | *1828.430 | *1791.894 | *1749.944 | *1694.433 | *1622.594 | *1522.354 | *1373.414 | *1199.078 | * |
| 13.0 | 1892.799 | *1873.327 | *1846.150 | *1809.002 | *1767.198 | *1711.148 | *1640.019 | *1538.659 | *1393.104 | *1216.776 | * |
| 11.0 | 1908.647 | *1889.886 | *1862.114 | *1824.117 | *1782.561 | *1725.659 | *1653.573 | *1553.031 | *1410.328 | *1231.969 | * |
| 9.0 | 1922.577 | *1903.094 | *1875.363 | *1837.077 | *1795.147 | *1738.191 | *1664.657 | *1565.375 | *1425.000 | *1244.651 | * |
| 7.0 | 1932.927 | *1914.034 | *1886.665 | *1848.356 | *1805.675 | *1748.367 | *1673.942 | *1575.607 | *1437.038 | *1254.828 | * |
| 5.0 | 1941.759 | *1922.833 | *1895.604 | *1857.363 | *1814.239 | *1756.303 | *1681.312 | *1583.651 | *1446.376 | *1262.520 | * |
| 3.0 | 1948.866 | *1929.040 | *1901.603 | *1864.005 | *1820.703 | *1762.170 | *1686.663 | *1589.445 | *1456.138 | *1270.407 | * |
| 1.0 | 1954.079 | *1932.926 | *1905.260 | *1868.536 | *1824.956 | *1765.848 | *1689.901 | *1593.232 | *1457.088 | *1270.879 | * |
| 0.0 | 1955.217 | *1934.016 | *1906.260 | *1869.450 | *1826.227 | *1766.835 | *1690.704 | *1593.814 | *1457.564 | *1271.115 | * |
| -1.0 | 1956.171 | *1934.691 | *1906.745 | *1870.245 | *1826.866 | *1767.596 | *1691.650 | *1595.083 | *1459.174 | *1273.426 | * |
| -3.0 | 1955.036 | *1934.264 | *1906.022 | *1869.220 | *1826.400 | *1767.436 | *1691.896 | *1595.011 | *1462.387 | *1278.041 | * |
| -5.0 | 1951.723 | *1931.335 | *1902.963 | *1866.300 | *1823.620 | *1765.151 | *1689.990 | *1592.969 | *1457.166 | *1275.291 | * |
| -7.0 | 1946.108 | *1925.586 | *1897.563 | *1861.362 | *1818.577 | *1760.900 | *1685.999 | *1588.737 | *1452.620 | *1272.752 | * |
| -9.0 | 1938.889 | *1918.353 | *1890.620 | *1854.598 | *1811.354 | *1754.507 | *1680.007 | *1582.398 | *1445.835 | *1267.771 | * |
| -11.0 | 1929.201 | *1909.795 | *1882.741 | *1846.392 | *1802.010 | *1745.839 | *1672.110 | *1574.048 | *1436.994 | *1260.340 | * |
| -13.0 | 1918.607 | *1899.011 | *1871.968 | *1834.518 | *1790.944 | *1735.317 | *1662.065 | *1563.787 | *1426.278 | *1250.461 | * |
| -15.0 | 1905.532 | *1886.973 | *1858.992 | *1820.820 | *1777.930 | *1722.498 | *1649.421 | *1551.722 | *1413.865 | *1238.148 | * |
| -17.0 | 1890.328 | *1870.569 | *1843.168 | *1805.118 | *1762.503 | *1706.877 | *1634.656 | *1536.675 | *1399.210 | *1223.429 | * |
| -19.5 | 1865.146 | *1846.751 | *1820.361 | *1781.869 | *1739.548 | *1684.923 | *1613.285 | *1515.453 | *1375.848 | *1202.753 | * |
| -22.5 | 1831.127 | *1812.983 | *1786.178 | *1749.115 | *1707.985 | *1654.253 | *1582.495 | *1485.350 | *1343.575 | *1174.689 | * |
| -25.5 | 1792.394 | *1774.249 | *1748.053 | *1712.269 | *1672.465 | *1619.607 | *1547.486 | *1448.935 | *1304.202 | *1142.669 | * |
| -29.0 | 1743.005 | *1724.740 | *1699.373 | *1664.714 | *1625.897 | *1575.712 | *1500.598 | *1398.338 | *1251.770 | *1098.929 | * |
| -33.0 | 1678.997 | *1661.469 | *1636.522 | *1600.955 | *1561.664 | *1511.115 | *1437.305 | *1329.452 | *1185.893 | *1036.539 | * |
| -37.5 | 1589.758 | *1569.779 | *1543.169 | *1508.166 | *1469.082 | *1419.063 | *1348.926 | *1235.830 | *1093.556 | *953.282 | * |
| -42.5 | 1445.963 | *1426.794 | *1396.322 | *1359.807 | *1321.946 | *1276.167 | *1214.003 | *1101.591 | *965.015 | *841.869 | * |
| -47.5 | 1234.029 | *1212.187 | *1195.441 | *1171.853 | *1143.180 | *1100.111 | *1033.125 | *936.826 | *825.573 | *727.911 | * |
| -55.0 | 970.820 | *956.304 | *937.056 | *913.752 | *883.873 | *839.179 | *782.613 | *711.816 | *638.223 | *551.636 | * |
| -65.0 | 659.882 | *647.993 | *631.430 | *607.263 | *582.840 | *545.676 | *503.890 | *452.762 | *390.842 | *319.871 | * |
| -75.0 | 262.392 | *254.149 | *243.024 | *229.429 | *217.195 | *200.544 | 178.343 | 156.850 | 132.233 | 101.473 | |
| -85.0 | 17.149 | 16.704 | 16.122 | 15.399 | 14.938 | 14.313 | 13.477 | 12.376 | 10.947 | 9.066 | |
| -90.0 | 0.032 | 0.031 | 0.030 | 0.028 | 0.026 | 0.024 | 0.022 | 0.020 | 0.017 | 0.014 | |

| Vert. Angles | Horizontal Angles | | | | |
|-------------------------|--------------------------|-------------|-------------|-------------|-------------|
| | 55.0 | 65.0 | 75.0 | 85.0 | 90.0 |
| 90.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 85.0 | 0.000 | 0.000 | 0.072 | 0.056 | 0.000 |
| 75.0 | 0.297 | 0.057 | 0.388 | 0.169 | 0.000 |
| 65.0 | 14.842 | 2.137 | 1.910 | 0.280 | 0.001 |
| 55.0 | 109.411 | 31.723 | 7.339 | 0.491 | 0.001 |
| 47.5 | 260.499 | *89.359 | 14.709 | 0.717 | 0.001 |
| 42.5 | 380.180 | *143.320 | 24.722 | 0.862 | 0.001 |
| 37.5 | 514.790 | *205.785 | *34.996 | 1.000 | 0.001 |
| 33.0 | 617.987 | *264.266 | *44.731 | 1.117 | 0.001 |
| 29.0 | 697.704 | *314.655 | *58.453 | 1.215 | 0.001 |
| 25.5 | 762.258 | *358.569 | *69.953 | 1.296 | 0.002 |
| 22.5 | 811.523 | *388.180 | *79.353 | 1.360 | 0.002 |
| 19.5 | 853.868 | *418.465 | *88.259 | 1.420 | 0.002 |
| 17.0 | 882.995 | *441.438 | *95.248 | 1.467 | 0.002 |
| 15.0 | 903.686 | *458.295 | *100.526 | 1.502 | 0.002 |
| 13.0 | 922.058 | *473.773 | *105.498 | 1.534 | 0.002 |
| 11.0 | 938.125 | *487.850 | *110.143 | 1.609 | 0.002 |
| 9.0 | 951.909 | *500.507 | *114.436 | 1.621 | 0.002 |

IES FLOOD REPORT
PHOTOMETRIC FILENAME : TMFL-LED-05L-W-30.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | |
|--------------|---------|---|---------|---|---------|-------|-------|
| 7.0 | 963.441 | * | 511.726 | * | 118.353 | 1.634 | 0.002 |
| 5.0 | 972.762 | * | 521.495 | * | 123.322 | 1.647 | 0.002 |
| 3.0 | 982.219 | * | 531.467 | * | 125.495 | 1.660 | 0.002 |
| 1.0 | 985.229 | * | 536.824 | * | 127.672 | 1.680 | 0.002 |
| 0.0 | 986.736 | * | 539.505 | * | 128.762 | 1.680 | 0.002 |
| -1.0 | 988.823 | * | 541.771 | * | 129.684 | 1.718 | 0.002 |
| -3.0 | 992.993 | * | 546.300 | * | 131.526 | 1.793 | 0.002 |
| -5.0 | 990.983 | * | 546.158 | * | 133.364 | 1.869 | 0.002 |
| -7.0 | 989.283 | * | 546.154 | * | 132.226 | 1.944 | 0.002 |
| -9.0 | 985.697 | * | 544.601 | * | 132.099 | 2.019 | 0.002 |
| -11.0 | 980.272 | * | 541.484 | * | 131.469 | 2.093 | 0.002 |
| -13.0 | 973.056 | * | 536.795 | * | 130.332 | 2.084 | 0.002 |
| -15.0 | 964.100 | * | 530.526 | * | 128.687 | 2.127 | 0.002 |
| -17.0 | 953.460 | * | 522.677 | * | 126.531 | 2.163 | 0.002 |
| -19.5 | 937.878 | * | 510.646 | * | 123.119 | 2.198 | 0.002 |
| -22.5 | 915.347 | * | 492.970 | * | 117.975 | 2.226 | 0.002 |
| -25.5 | 889.631 | * | 475.447 | * | 111.693 | 2.236 | 0.002 |
| -29.0 | 856.449 | * | 445.421 | * | 102.941 | 2.225 | 0.001 |
| -33.0 | 807.939 | * | 410.032 | * | 91.095 | 2.180 | 0.001 |
| -37.5 | 741.239 | * | 365.119 | * | 81.133 | 2.088 | 0.001 |
| -42.5 | 647.956 | * | 310.217 | * | 68.126 | 1.932 | 0.001 |
| -47.5 | 543.122 | * | 253.561 | * | 52.790 | 1.720 | 0.001 |
| -55.0 | 393.538 | * | 172.799 | * | 35.338 | 1.302 | 0.001 |
| -65.0 | 205.709 | * | 83.715 | * | 15.717 | 0.836 | 0.001 |
| -75.0 | 61.471 | | 23.573 | | 5.307 | 0.531 | 0.000 |
| -85.0 | 5.958 | | 2.967 | | 1.194 | 0.182 | 0.000 |
| -90.0 | 0.010 | | 0.006 | | 0.002 | 0.000 | 0.000 |

IES FLOOD REPORT
PHOTOMETRIC FILENAME : TMFL-LED-05L-W-30.IES

LUMEN TABULATION

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 2517.83

Total Field Lumens (one side of beam only) = 2461.42

* Indicates Values Inside Field Edge

| Vert. Angles | Horizontal Angles | | | | | | | | | |
|-----------------|-------------------|----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|
| | <u>0</u> | <u>1</u> | <u>3</u> | <u>5</u> | <u>7</u> | <u>9</u> | <u>11</u> | <u>13</u> | <u>15</u> | <u>17</u> |
| 90 | | | | | | | | | | |
| 85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 65 | 0.00 | 0.01 | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 | 0.04 | 0.03 | 0.04 |
| 55 | 0.57 | 1.18 | 1.20 | 1.21 | 1.21 | 1.21 | 1.19 | 1.17 | 1.14 | 1.39 |
| 47.5 | 1.41 * | 2.87 * | 2.89 * | 2.89 * | 2.88 * | 2.85 * | 2.80 * | 2.75 * | 2.68 * | 3.27 * |
| 42.5 | 1.56 * | 3.15 * | 3.16 * | 3.15 * | 3.13 * | 3.09 * | 3.04 * | 2.99 * | 2.92 * | 3.56 * |
| 37.5 | 2.01 * | 4.04 * | 4.04 * | 4.02 * | 3.99 * | 3.95 * | 3.89 * | 3.83 * | 3.75 * | 4.56 * |
| 33 | 2.11 * | 4.22 * | 4.22 * | 4.20 * | 4.17 * | 4.13 * | 4.08 * | 4.01 * | 3.93 * | 4.77 * |
| 29 | 2.04 * | 4.08 * | 4.07 * | 4.06 * | 4.03 * | 3.99 * | 3.93 * | 3.87 * | 3.79 * | 4.61 * |
| 25.5 | 1.87 * | 3.75 * | 3.74 * | 3.72 * | 3.70 * | 3.66 * | 3.61 * | 3.55 * | 3.48 * | 4.24 * |
| 22.5 | 1.66 * | 3.32 * | 3.31 * | 3.29 * | 3.27 * | 3.24 * | 3.19 * | 3.14 * | 3.08 * | 3.76 * |
| 19.5 | 1.70 * | 3.40 * | 3.39 * | 3.37 * | 3.35 * | 3.31 * | 3.27 * | 3.22 * | 3.16 * | 3.85 * |
| 17 | 1.44 * | 2.89 * | 2.88 * | 2.87 * | 2.84 * | 2.81 * | 2.77 * | 2.73 * | 2.68 * | 3.27 * |
| 15 | 1.17 * | 2.34 * | 2.34 * | 2.32 * | 2.31 * | 2.28 * | 2.25 * | 2.21 * | 2.17 * | 2.65 * |
| 13 | 1.18 * | 2.37 * | 2.36 * | 2.35 * | 2.33 * | 2.30 * | 2.27 * | 2.24 * | 2.19 * | 2.68 * |
| 11 | 1.19 * | 2.39 * | 2.38 * | 2.37 * | 2.35 * | 2.32 * | 2.29 * | 2.26 * | 2.21 * | 2.70 * |
| 9 | 1.20 * | 2.41 * | 2.40 * | 2.39 * | 2.37 * | 2.34 * | 2.31 * | 2.27 * | 2.23 * | 2.72 * |
| 7 | 1.21 * | 2.42 * | 2.42 * | 2.40 * | 2.38 * | 2.36 * | 2.33 * | 2.29 * | 2.25 * | 2.74 * |
| 5 | 1.22 * | 2.43 * | 2.43 * | 2.42 * | 2.40 * | 2.37 * | 2.34 * | 2.30 * | 2.26 * | 2.76 * |
| 3 | 1.22 * | 2.44 * | 2.44 * | 2.42 * | 2.40 * | 2.38 * | 2.35 * | 2.31 * | 2.27 * | 2.77 * |
| 1 | 1.23 * | 2.45 * | 2.45 * | 2.43 * | 2.41 * | 2.39 * | 2.36 * | 2.32 * | 2.27 * | 2.77 * |
| 0 | 0.62 * | 1.23 * | 1.23 * | 1.22 * | 1.21 * | 1.20 * | 1.18 * | 1.16 * | 1.14 * | 1.39 * |
| -1 | 0.62 * | 1.23 * | 1.23 * | 1.22 * | 1.21 * | 1.20 * | 1.18 * | 1.16 * | 1.14 * | 1.39 * |
| | 1.23 * | 2.46 * | 2.45 * | 2.43 * | 2.41 * | 2.39 * | 2.36 * | 2.32 * | 2.28 * | 2.78 * |

IES FLOOD REPORT
PHOTOMETRIC FILENAME : TMFL-LED-05L-W-30.IES

LUMENS TABULATION - (Cont.)

| | | | | | | | | | | |
|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| -3 | 1.23 * | 2.45 * | 2.44 * | 2.43 * | 2.41 * | 2.39 * | 2.36 * | 2.32 * | 2.28 * | 2.78 * |
| -5 | 1.23 * | 2.45 * | 2.44 * | 2.42 * | 2.40 * | 2.38 * | 2.35 * | 2.31 * | 2.27 * | 2.77 * |
| -7 | 1.22 * | 2.44 * | 2.43 * | 2.42 * | 2.40 * | 2.37 * | 2.34 * | 2.31 * | 2.26 * | 2.76 * |
| -9 | 1.22 * | 2.43 * | 2.42 * | 2.41 * | 2.39 * | 2.36 * | 2.33 * | 2.30 * | 2.25 * | 2.75 * |
| -11 | 1.21 * | 2.42 * | 2.41 * | 2.40 * | 2.38 * | 2.35 * | 2.32 * | 2.28 * | 2.24 * | 2.73 * |
| -13 | 1.21 * | 2.41 * | 2.40 * | 2.38 * | 2.36 * | 2.34 * | 2.31 * | 2.27 * | 2.23 * | 2.72 * |
| -15 | 1.20 * | 2.39 * | 2.38 * | 2.36 * | 2.34 * | 2.32 * | 2.29 * | 2.25 * | 2.21 * | 2.70 * |
| -17 | 1.48 * | 2.96 * | 2.95 * | 2.93 * | 2.90 * | 2.87 * | 2.83 * | 2.79 * | 2.74 * | 3.34 * |
| -19.5 | 1.75 * | 3.50 * | 3.49 * | 3.46 * | 3.43 * | 3.39 * | 3.35 * | 3.29 * | 3.23 * | 3.94 * |
| -22.5 | 1.72 * | 3.44 * | 3.42 * | 3.40 * | 3.36 * | 3.33 * | 3.28 * | 3.23 * | 3.17 * | 3.86 * |
| -25.5 | 1.96 * | 3.91 * | 3.90 * | 3.87 * | 3.83 * | 3.79 * | 3.73 * | 3.67 * | 3.60 * | 4.40 * |
| -29 | 2.17 * | 4.33 * | 4.31 * | 4.28 * | 4.24 * | 4.19 * | 4.13 * | 4.06 * | 3.99 * | 4.86 * |
| -33 | 2.34 * | 4.67 * | 4.64 * | 4.61 * | 4.56 * | 4.51 * | 4.44 * | 4.37 * | 4.28 * | 5.22 * |
| -37.5 | 2.43 * | 4.84 * | 4.82 * | 4.78 * | 4.73 * | 4.67 * | 4.59 * | 4.51 * | 4.42 * | 5.37 * |
| -42.5 | 2.15 * | 4.30 * | 4.28 * | 4.24 * | 4.20 * | 4.14 * | 4.07 * | 3.99 * | 3.89 * | 4.73 * |
| -47.5 | 2.66 * | 5.32 * | 5.29 * | 5.25 * | 5.19 * | 5.12 * | 5.03 * | 4.92 * | 4.80 * | 5.83 * |
| -55 | 2.64 * | 5.27 * | 5.24 * | 5.19 * | 5.13 * | 5.05 * | 4.96 * | 4.85 * | 4.74 * | 5.74 * |
| -65 | 1.54 * | 3.07 * | 3.04 * | 3.00 * | 2.95 * | 2.89 * | 2.83 * | 2.75 * | 2.67 * | 3.21 * |
| -75 | 0.49 | 0.97 | 0.96 | 0.94 | 0.92 | 0.90 | 0.87 | 0.84 | 0.81 | 0.96 |
| -85 | 0.02 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.02 | 0.03 |
| -90 | | | | | | | | | | |
| Total | 60.34 | 120.69 | 120.34 | 119.58 | 118.53 | 117.16 | 115.48 | 113.48 | 111.17 | 135.33 |

| Vert. Angles | Horizontal Angles | | | | | | | | | |
|---------------------|--------------------------|-------------|-------------|-----------|-----------|-------------|-------------|-------------|-----------|-----------|
| | 19.5 | 22.5 | 25.5 | 29 | 33 | 37.5 | 42.5 | 47.5 | 55 | 65 |
| 90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 75 | 0.06 | 0.08 | 0.12 | 0.14 | 0.13 | 0.09 | 0.09 | 0.12 | 0.07 | 0.01 |
| 65 | 1.62 | 1.56 | 1.68 | 1.72 | 1.66 | 1.42 | 1.08 | 1.12 | 0.60 | 0.11 |
| 55 | 3.81 * | 3.62 * | 3.88 * | 3.94 * | 3.81 * | 3.35 * | 2.51 * | 2.51 * | 1.40 | 0.28 |

IES FLOOD REPORT
PHOTOMETRIC FILENAME : TMFL-LED-05L-W-30.IES

LUMENS TABULATION - (Cont.)

| | | | | | | | | | | |
|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 47.5 | | | | | | | | | | |
| | 4.13 * | 3.93 * | 4.28 * | 4.40 * | 4.26 * | 3.80 * | 2.88 * | 2.86 * | 1.66 * | 0.35 |
| 42.5 | | | | | | | | | | |
| | 5.25 * | 5.00 * | 5.49 * | 5.72 * | 5.57 * | 5.04 * | 3.90 * | 3.94 * | 2.37 * | 0.53 |
| 37.5 | | | | | | | | | | |
| | 5.50 * | 5.24 * | 5.77 * | 6.04 * | 5.94 * | 5.46 * | 4.30 * | 4.43 * | 2.74 * | 0.64 |
| 33 | | | | | | | | | | |
| | 5.34 * | 5.10 * | 5.61 * | 5.89 * | 5.85 * | 5.46 * | 4.36 * | 4.54 * | 2.88 * | 0.71 |
| 29 | | | | | | | | | | |
| | 4.91 * | 4.70 * | 5.18 * | 5.45 * | 5.46 * | 5.15 * | 4.16 * | 4.38 * | 2.84 * | 0.73 |
| 25.5 | | | | | | | | | | |
| | 4.35 * | 4.16 * | 4.59 * | 4.85 * | 4.89 * | 4.64 * | 3.77 * | 4.01 * | 2.65 * | 0.70 * |
| 22.5 | | | | | | | | | | |
| | 4.46 * | 4.27 * | 4.71 * | 4.99 * | 5.04 * | 4.81 * | 3.92 * | 4.20 * | 2.82 * | 0.76 * |
| 19.5 | | | | | | | | | | |
| | 3.79 * | 3.63 * | 4.00 * | 4.24 * | 4.30 * | 4.12 * | 3.37 * | 3.63 * | 2.47 * | 0.68 * |
| 17 | | | | | | | | | | |
| | 3.07 * | 2.94 * | 3.25 * | 3.44 * | 3.50 * | 3.35 * | 2.75 * | 2.98 * | 2.04 * | 0.57 * |
| 15 | | | | | | | | | | |
| | 3.10 * | 2.97 * | 3.28 * | 3.48 * | 3.54 * | 3.40 * | 2.79 * | 3.03 * | 2.10 * | 0.59 * |
| 13 | | | | | | | | | | |
| | 3.13 * | 3.00 * | 3.31 * | 3.51 * | 3.57 * | 3.44 * | 2.83 * | 3.08 * | 2.15 * | 0.61 * |
| 11 | | | | | | | | | | |
| | 3.16 * | 3.02 * | 3.34 * | 3.54 * | 3.60 * | 3.47 * | 2.86 * | 3.12 * | 2.19 * | 0.63 * |
| 9 | | | | | | | | | | |
| | 3.18 * | 3.04 * | 3.36 * | 3.56 * | 3.63 * | 3.50 * | 2.89 * | 3.15 * | 2.23 * | 0.65 * |
| 7 | | | | | | | | | | |
| | 3.19 * | 3.06 * | 3.38 * | 3.58 * | 3.65 * | 3.52 * | 2.91 * | 3.18 * | 2.26 * | 0.66 * |
| 5 | | | | | | | | | | |
| | 3.21 * | 3.07 * | 3.39 * | 3.60 * | 3.66 * | 3.54 * | 2.93 * | 3.21 * | 2.29 * | 0.68 * |
| 3 | | | | | | | | | | |
| | 3.22 * | 3.08 * | 3.40 * | 3.60 * | 3.67 * | 3.56 * | 2.94 * | 3.22 * | 2.31 * | 0.69 * |
| 1 | | | | | | | | | | |
| | 1.61 * | 1.54 * | 1.70 * | 1.80 * | 1.84 * | 1.78 * | 1.47 * | 1.61 * | 1.16 * | 0.35 * |
| 0 | | | | | | | | | | |
| | 1.61 * | 1.54 * | 1.70 * | 1.81 * | 1.84 * | 1.78 * | 1.47 * | 1.61 * | 1.16 * | 0.35 * |
| -1 | | | | | | | | | | |
| | 3.22 * | 3.09 * | 3.41 * | 3.61 * | 3.68 * | 3.56 * | 2.95 * | 3.24 * | 2.33 * | 0.70 * |
| -3 | | | | | | | | | | |
| | 3.22 * | 3.08 * | 3.40 * | 3.61 * | 3.68 * | 3.56 * | 2.95 * | 3.24 * | 2.34 * | 0.71 * |
| -5 | | | | | | | | | | |
| | 3.21 * | 3.08 * | 3.40 * | 3.60 * | 3.67 * | 3.55 * | 2.94 * | 3.24 * | 2.34 * | 0.71 * |
| -7 | | | | | | | | | | |
| | 3.20 * | 3.07 * | 3.39 * | 3.59 * | 3.66 * | 3.54 * | 2.93 * | 3.23 * | 2.33 * | 0.71 * |
| -9 | | | | | | | | | | |
| | 3.19 * | 3.05 * | 3.37 * | 3.58 * | 3.64 * | 3.52 * | 2.91 * | 3.21 * | 2.32 * | 0.70 * |
| -11 | | | | | | | | | | |
| | 3.17 * | 3.04 * | 3.35 * | 3.56 * | 3.62 * | 3.50 * | 2.89 * | 3.19 * | 2.31 * | 0.70 * |
| -13 | | | | | | | | | | |
| | 3.15 * | 3.02 * | 3.33 * | 3.53 * | 3.60 * | 3.47 * | 2.87 * | 3.16 * | 2.29 * | 0.69 * |
| -15 | | | | | | | | | | |
| | 3.13 * | 2.99 * | 3.30 * | 3.51 * | 3.57 * | 3.44 * | 2.84 * | 3.13 * | 2.26 * | 0.68 * |
| -17 | | | | | | | | | | |
| | 3.87 * | 3.70 * | 4.08 * | 4.33 * | 4.41 * | 4.25 * | 3.50 * | 3.86 * | 2.78 * | 0.83 * |
| -19.5 | | | | | | | | | | |
| | 4.57 * | 4.37 * | 4.82 * | 5.12 * | 5.20 * | 5.00 * | 4.12 * | 4.53 * | 3.26 * | 0.97 * |

IES FLOOD REPORT
PHOTOMETRIC FILENAME : TMFL-LED-05L-W-30.IES

LUMENS TABULATION - (Cont.)

| | | | | | | | | | | |
|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| -22.5 | 4.48 * | 4.28 * | 4.73 * | 5.02 * | 5.09 * | 4.88 * | 4.01 * | 4.42 * | 3.16 * | 0.93 * |
| -25.5 | 5.09 * | 4.88 * | 5.38 * | 5.70 * | 5.77 * | 5.51 * | 4.52 * | 4.99 * | 3.55 * | 1.03 * |
| -29 | 5.63 * | 5.39 * | 5.95 * | 6.29 * | 6.34 * | 6.02 * | 4.92 * | 5.43 * | 3.83 * | 1.09 * |
| -33 | 6.04 * | 5.77 * | 6.36 * | 6.72 * | 6.74 * | 6.36 * | 5.17 * | 5.69 * | 3.98 * | 1.11 * |
| -37.5 | 6.19 * | 5.90 * | 6.50 * | 6.86 * | 6.86 * | 6.41 * | 5.19 * | 5.69 * | 3.93 * | 1.07 * |
| -42.5 | 5.46 * | 5.21 * | 5.74 * | 6.03 * | 6.00 * | 5.58 * | 4.52 * | 4.93 * | 3.34 * | 0.89 |
| -47.5 | 6.75 * | 6.44 * | 7.05 * | 7.35 * | 7.27 * | 6.81 * | 5.54 * | 5.94 * | 3.89 * | 1.00 |
| -55 | 6.59 * | 6.24 * | 6.76 * | 6.97 * | 6.86 * | 6.40 * | 5.12 * | 5.25 * | 3.25 * | 0.80 |
| -65 | 3.65 * | 3.42 * | 3.66 * | 3.73 * | 3.61 * | 3.30 * | 2.54 * | 2.46 | 1.42 | 0.33 |
| -75 | 1.07 | 1.00 | 1.06 | 1.06 | 1.01 | 0.91 | 0.68 | 0.64 | 0.36 | 0.09 |
| -85 | 0.03 | 0.03 | 0.03 | 0.04 | 0.04 | 0.03 | 0.03 | 0.03 | 0.02 | 0.01 |
| -90 | | | | | | | | | | |
| Total | 156.59 | 149.56 | 164.47 | 173.15 | 173.68 | 164.31 | 133.29 | 143.43 | 97.66 | 27.05 |

| Vert. Angles | Horizontal Angles | | | |
|-----------------|-------------------|-----------|-----------|--------------|
| | <u>75</u> | <u>85</u> | <u>90</u> | <u>Total</u> |
| 90 | | | | |
| | 0.00 | 0.00 | 0.00 | |
| 85 | | | | |
| | 0.00 | 0.00 | 0.01 | |
| 75 | | | | |
| | 0.00 | 0.00 | 1.18 | |
| 65 | | | | |
| | 0.01 | 0.00 | 24.04 | |
| 55 | | | | |
| | 0.02 | 0.00 | 56.44 | |
| 47.5 | | | | |
| | 0.03 | 0.00 | 62.32 | |
| 42.5 | | | | |
| | 0.04 | 0.00 | 80.92 | |
| 37.5 | | | | |
| | 0.05 | 0.00 | 85.95 | |
| 33 | | | | |
| | 0.06 | 0.00 | 84.26 | |
| 29 | | | | |
| | 0.06 | 0.00 | 78.35 | |
| 25.5 | | | | |
| | 0.06 | 0.00 | 69.93 | |
| 22.5 | | | | |
| | 0.07 | 0.00 | 72.07 | |
| 19.5 | | | | |
| | 0.06 | 0.00 | 61.47 | |
| 17 | | | | |
| | 0.05 | 0.00 | 49.98 | |

IES FLOOD REPORT
PHOTOMETRIC FILENAME : TMFL-LED-05L-W-30.IES

LUMENS TABULATION - (Cont.)

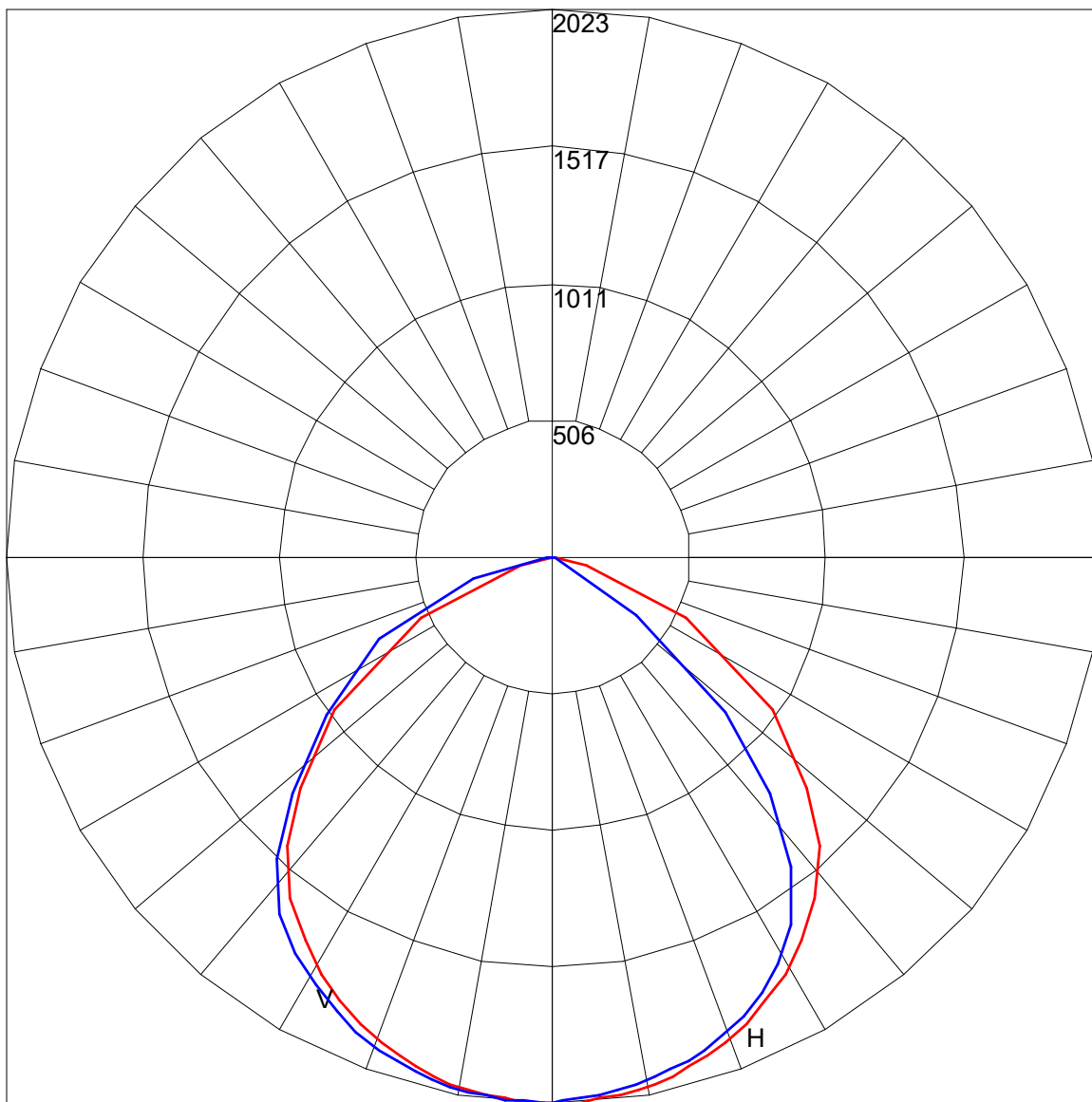
| | | | |
|--------------|------|------|--------|
| 15 | 0.06 | 0.00 | 50.61 |
| 13 | 0.06 | 0.00 | 51.16 |
| 11 | 0.06 | 0.00 | 51.64 |
| 9 | 0.06 | 0.00 | 52.04 |
| 7 | 0.06 | 0.00 | 52.37 |
| 5 | 0.07 | 0.00 | 52.63 |
| 3 | 0.07 | 0.00 | 52.82 |
| 1 | 0.03 | 0.00 | 26.46 |
| 0 | 0.03 | 0.00 | 26.48 |
| -1 | 0.07 | 0.00 | 52.97 |
| -3 | 0.07 | 0.00 | 52.94 |
| -5 | 0.07 | 0.00 | 52.83 |
| -7 | 0.07 | 0.00 | 52.66 |
| -9 | 0.07 | 0.00 | 52.44 |
| -11 | 0.07 | 0.00 | 52.15 |
| -13 | 0.07 | 0.00 | 51.79 |
| -15 | 0.07 | 0.00 | 51.36 |
| -17 | 0.08 | 0.00 | 63.47 |
| -19.5 | 0.10 | 0.00 | 74.89 |
| -22.5 | 0.09 | 0.00 | 73.30 |
| -25.5 | 0.10 | 0.00 | 83.20 |
| -29 | 0.10 | 0.00 | 91.57 |
| -33 | 0.10 | 0.00 | 97.66 |
| -37.5 | 0.10 | 0.00 | 99.84 |
| -42.5 | 0.08 | 0.00 | 87.78 |
| -47.5 | 0.09 | 0.00 | 107.53 |
| -55 | 0.07 | 0.00 | 103.11 |
| -65 | 0.03 | 0.00 | 56.13 |

IES FLOOD REPORT
PHOTOMETRIC FILENAME : TMFL-LED-05L-W-30.IES

LUMENS TABULATION - (Cont.)

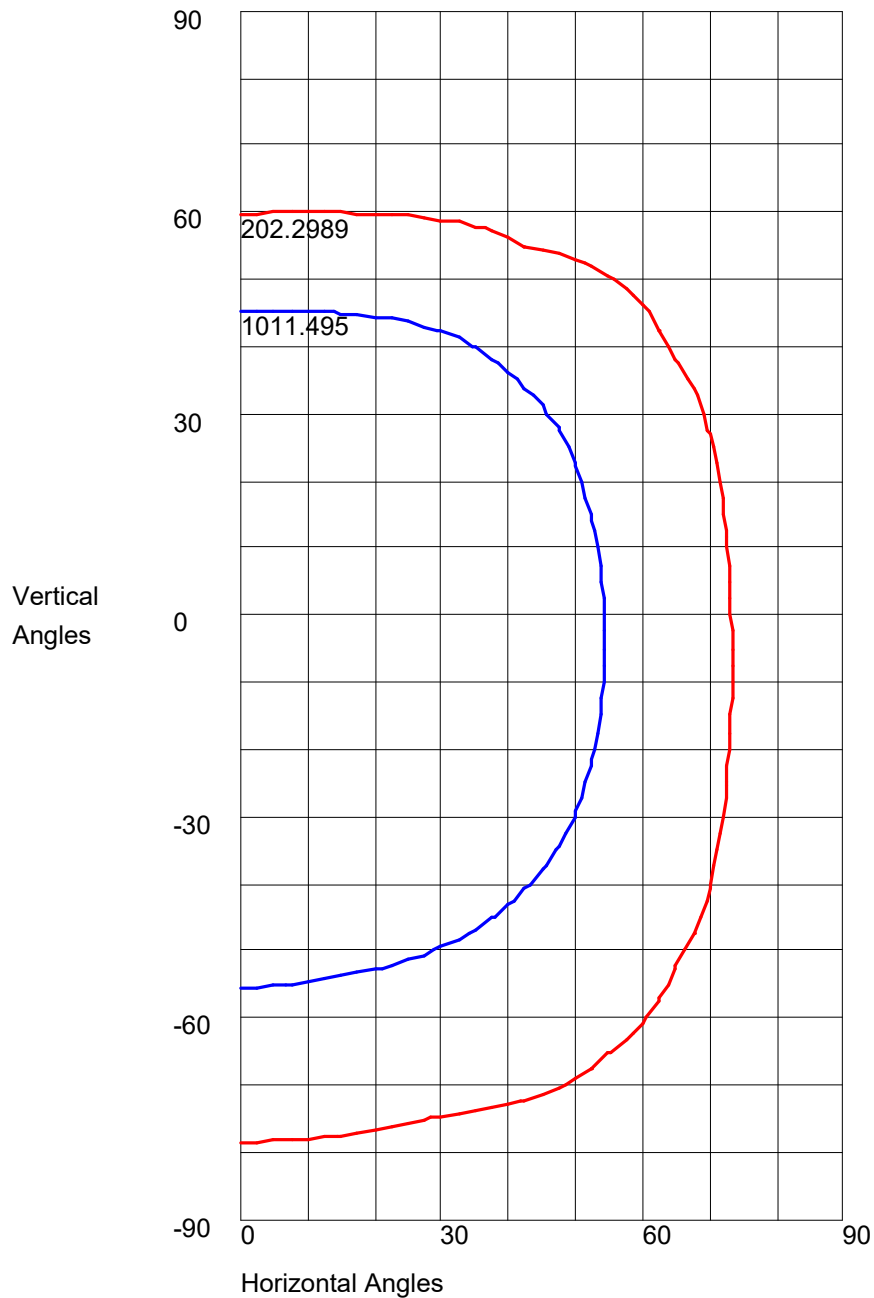
| | | | |
|--------------|------|------|---------|
| -75 | 0.01 | 0.00 | 16.54 |
| -85 | 0.00 | 0.00 | 0.55 |
| -90 | | | |
| Total | 2.55 | 0.01 | 2517.83 |

AXIAL CANDELA DISPLAY



Maximum Candela = 2022.989 Located At Horizontal Angle = -1, Vertical Angle = 0
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 2022.989 Located At Horizontal Angle = -1, Vertical Angle = 0
50% Maximum Candela = 1011.4945
10% Maximum Candela = 202.2989