

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P141361

Luminaire Tested: **MEM-E03-LED-E-U-SL4-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P141361
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33692)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: MEM-E03-LED-E-U-SL4-7050
Description: EPIC MODERN MEDIUM DECORATIVE LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (63) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8691.5 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

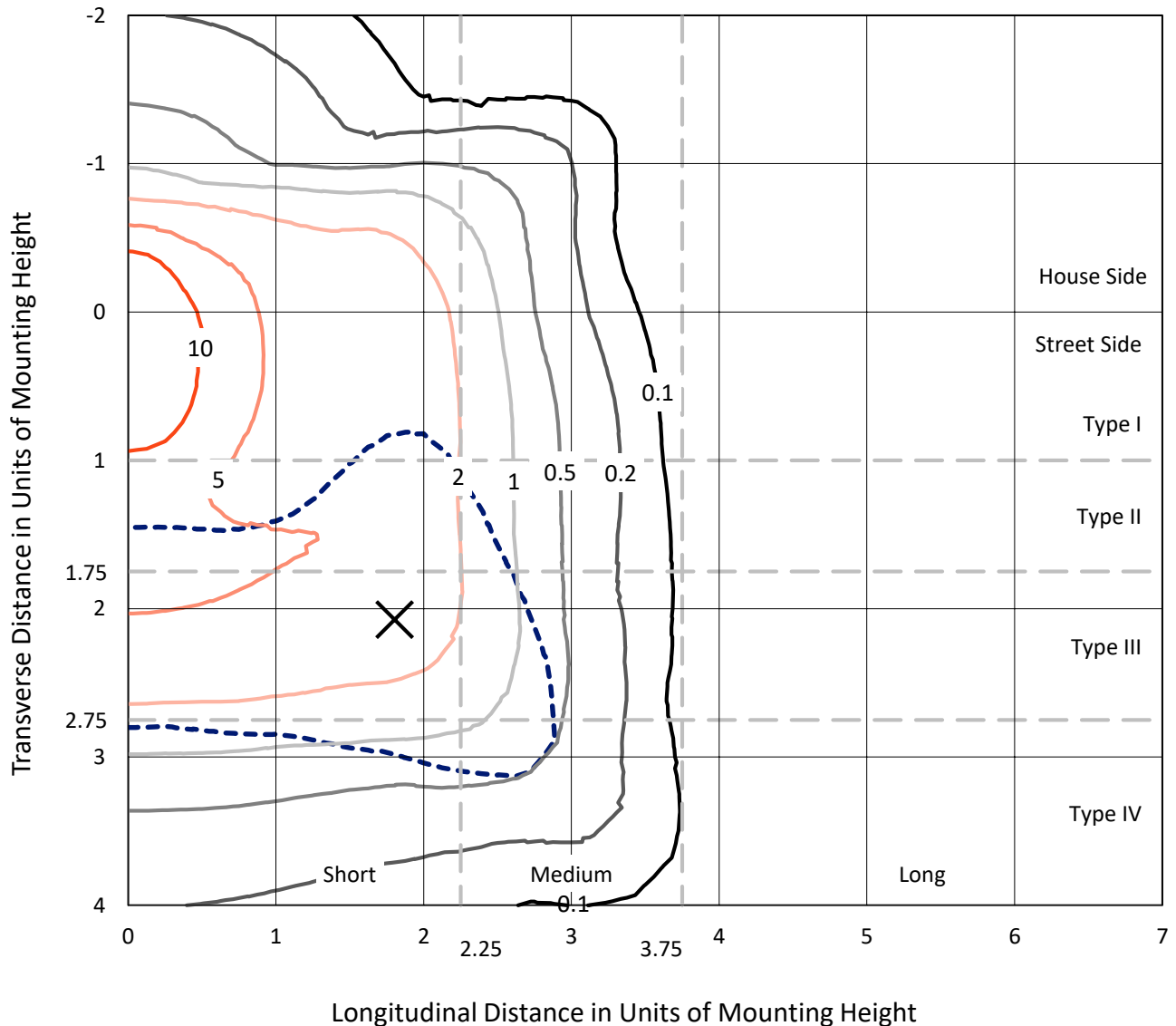
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P141361
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Iso-Footcandle Lines of Horizontal Illumination

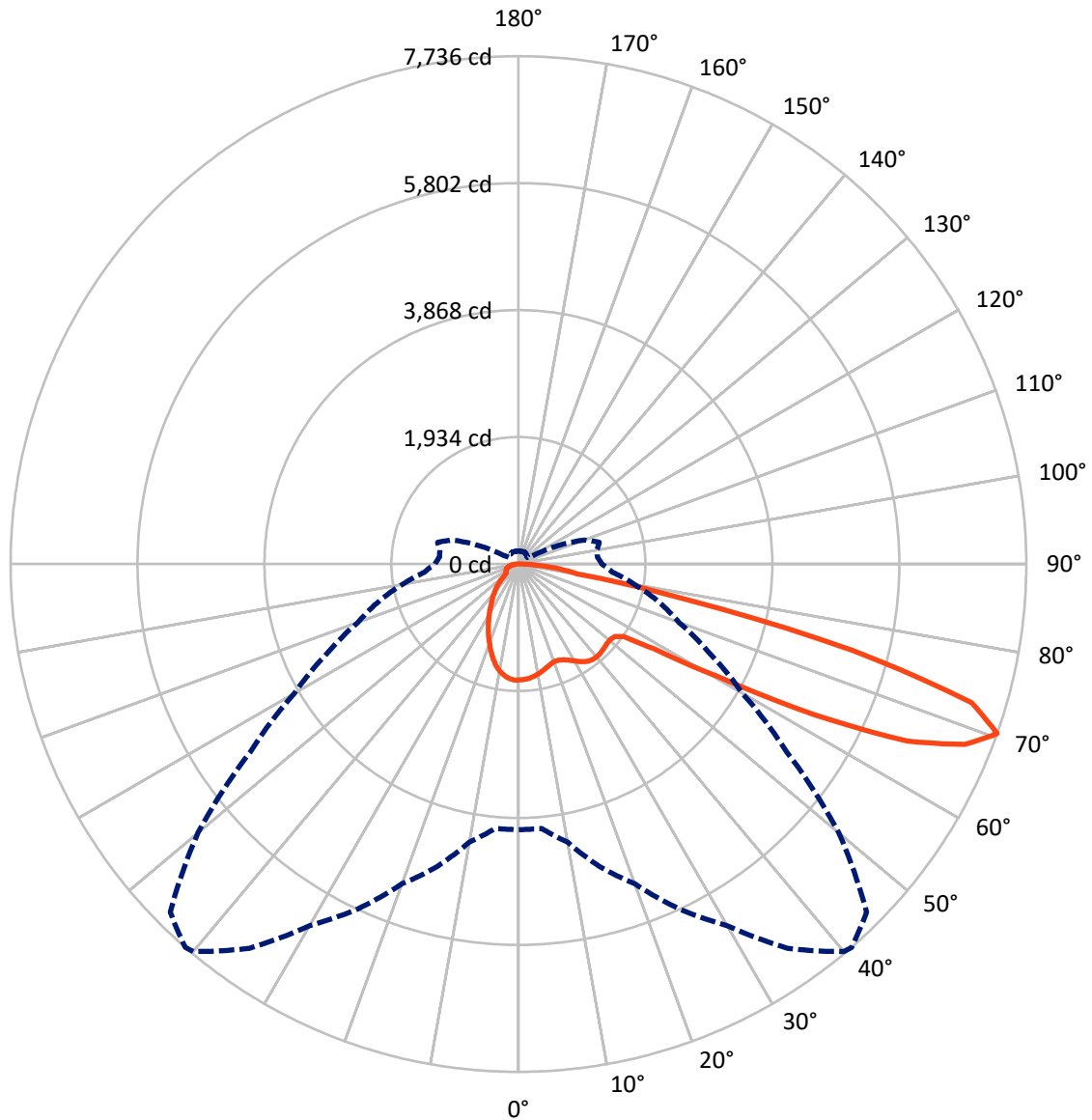
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 41-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1864.8 | 0.0 | 1864.8 |
| | % Fixture | 21.5 | 0.0 | 21.5 |
| Street Side | Lumens | 6826.8 | 0.0 | 6826.8 |
| | % Fixture | 78.5 | 0.0 | 78.5 |
| Total | Lumens | 8691.5 | 0.0 | 8691.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 164.3 | 1.9 |
| 10°-20° | 440.5 | 5.1 |
| 20°-30° | 636.8 | 7.3 |
| 30°-40° | 810.5 | 9.3 |
| 40°-50° | 955.1 | 11.0 |
| 50°-60° | 1461.4 | 16.8 |
| 60°-70° | 2716.2 | 31.3 |
| 70°-80° | 1311.0 | 15.1 |
| 80°-90° | 195.8 | 2.3 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 8691.5 | 100.0 |
| 0°-180° | 8691.5 | 100.0 |



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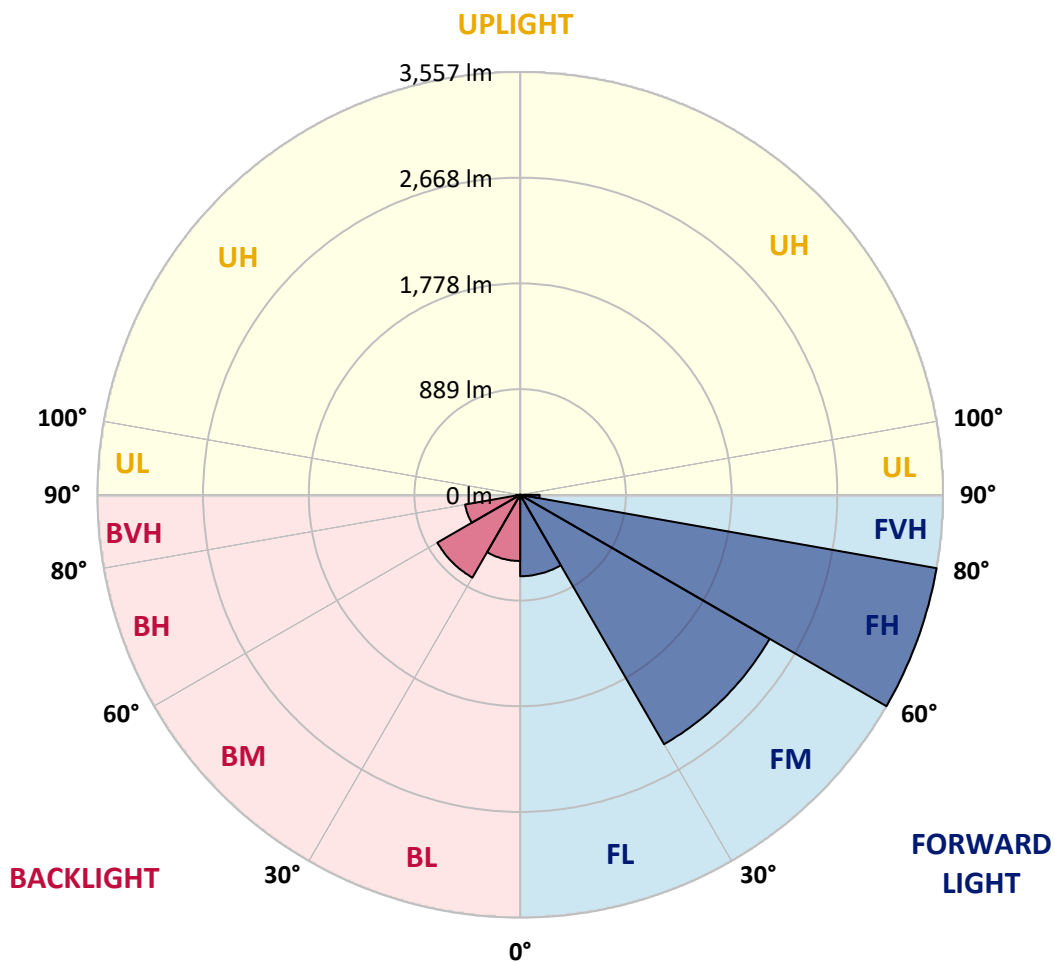
CATALOG NUMBER: MEM-E03-LED-E-U-SL4-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 684.6 | 7.9 | | | |
| FM | (30°-60°) | 2422.5 | 27.9 | | | |
| FH | (60°-80°) | 3556.9 | 40.9 | | | G2/5000 |
| FVH | (80°-90°) | 162.7 | 1.9 | | | G2/225 |
| BL | (0°-30°) | 557.0 | 6.4 | B2/1000 | | |
| BM | (30°-60°) | 804.5 | 9.3 | B1/1000 | | |
| BH | (60°-80°) | 470.2 | 5.4 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 33.0 | 0.4 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type IV Short





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CATALOG NUMBER: MEM-E03-LED-E-U-SL4-7050

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 41° | 45° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1765.9 | 1765.9 | 1765.9 | 1765.9 | 1765.9 | 1765.9 | 1765.9 | 1765.9 | 1765.9 | 1765.9 | 1765.9 |
| 2.5° | 1765.9 | 1768.0 | 1767.0 | 1764.9 | 1762.8 | 1763.9 | 1762.8 | 1761.8 | 1761.8 | 1760.8 | 1759.8 |
| 5° | 1757.7 | 1761.8 | 1758.7 | 1756.7 | 1753.6 | 1753.6 | 1752.6 | 1750.5 | 1748.5 | 1747.5 | 1745.4 |
| 7.5° | 1740.3 | 1744.4 | 1742.3 | 1740.3 | 1737.2 | 1735.1 | 1731.0 | 1729.0 | 1726.9 | 1725.9 | 1722.8 |
| 10° | 1716.7 | 1718.7 | 1716.7 | 1712.6 | 1710.5 | 1709.5 | 1707.4 | 1703.3 | 1699.2 | 1697.2 | 1694.1 |
| 12.5° | 1685.9 | 1686.9 | 1684.9 | 1682.8 | 1679.7 | 1679.7 | 1676.7 | 1673.6 | 1667.4 | 1665.4 | 1658.2 |
| 15° | 1659.2 | 1656.1 | 1654.1 | 1653.1 | 1652.0 | 1646.9 | 1647.9 | 1642.8 | 1632.5 | 1629.5 | 1621.2 |
| 17.5° | 1652.0 | 1649.0 | 1647.9 | 1644.8 | 1642.8 | 1636.6 | 1630.5 | 1620.2 | 1602.8 | 1599.7 | 1587.4 |
| 20° | 1672.6 | 1672.6 | 1669.5 | 1667.4 | 1664.3 | 1653.1 | 1639.7 | 1620.2 | 1588.4 | 1581.2 | 1565.8 |
| 22.5° | 1721.8 | 1716.7 | 1714.6 | 1714.6 | 1713.6 | 1697.2 | 1672.6 | 1641.8 | 1599.7 | 1590.5 | 1563.8 |
| 25° | 1798.8 | 1789.5 | 1792.6 | 1791.6 | 1789.5 | 1765.9 | 1730.0 | 1685.9 | 1628.4 | 1616.1 | 1581.2 |
| 27.5° | 1890.1 | 1892.1 | 1891.1 | 1887.0 | 1880.9 | 1855.2 | 1803.9 | 1744.4 | 1672.6 | 1660.2 | 1615.1 |
| 30° | 1985.5 | 1987.6 | 1993.7 | 1990.6 | 1986.5 | 1947.5 | 1883.9 | 1819.3 | 1732.1 | 1715.6 | 1660.2 |
| 32.5° | 2096.3 | 2103.5 | 2108.6 | 2109.7 | 2093.3 | 2039.9 | 1965.0 | 1882.9 | 1790.6 | 1774.1 | 1705.4 |
| 35° | 2224.6 | 2220.5 | 2229.7 | 2225.6 | 2196.9 | 2124.0 | 2031.7 | 1934.2 | 1839.8 | 1818.3 | 1744.4 |
| 37.5° | 2353.9 | 2359.0 | 2349.8 | 2332.3 | 2287.2 | 2191.8 | 2077.9 | 1968.1 | 1863.4 | 1842.9 | 1765.9 |
| 40° | 2479.1 | 2476.0 | 2454.4 | 2424.7 | 2357.0 | 2234.9 | 2103.5 | 1983.5 | 1871.6 | 1850.1 | 1771.1 |
| 42.5° | 2572.4 | 2564.2 | 2531.4 | 2483.2 | 2396.0 | 2255.4 | 2110.7 | 1983.5 | 1866.5 | 1843.9 | 1763.9 |
| 45° | 2613.5 | 2605.3 | 2573.5 | 2511.9 | 2408.3 | 2251.3 | 2098.4 | 1966.0 | 1849.0 | 1829.5 | 1749.5 |
| 47.5° | 2613.5 | 2610.4 | 2575.5 | 2516.0 | 2405.2 | 2240.0 | 2079.9 | 1944.5 | 1831.6 | 1812.1 | 1737.2 |
| 50° | 2593.0 | 2590.9 | 2560.1 | 2501.6 | 2394.9 | 2233.8 | 2074.8 | 1940.4 | 1830.6 | 1811.1 | 1742.3 |
| 52.5° | 2661.7 | 2648.4 | 2616.6 | 2548.8 | 2432.9 | 2259.5 | 2100.4 | 1960.9 | 1855.2 | 1835.7 | 1764.9 |
| 55° | 3498.0 | 3486.7 | 3325.6 | 3042.4 | 2745.9 | 2475.0 | 2243.1 | 2083.0 | 1976.3 | 1946.5 | 1895.2 |
| 57.5° | 4850.4 | 4834.0 | 4668.8 | 4411.2 | 3901.3 | 3321.5 | 2866.9 | 2600.2 | 2450.3 | 2428.8 | 2398.0 |
| 60° | 5399.4 | 5393.2 | 5323.4 | 5218.8 | 5025.9 | 4726.2 | 4303.5 | 3860.2 | 3515.4 | 3460.0 | 3464.1 |
| 62.5° | 5714.4 | 5699.0 | 5665.1 | 5639.5 | 5573.8 | 5451.7 | 5372.7 | 5248.5 | 5081.3 | 5043.3 | 4803.2 |
| 65° | 5890.9 | 5888.8 | 5907.3 | 5928.8 | 5924.7 | 5961.7 | 6001.7 | 6238.7 | 6516.8 | 6504.5 | 6251.0 |
| 67.5° | 5628.2 | 5645.6 | 5742.1 | 5889.8 | 6044.8 | 6209.0 | 6514.7 | 6989.8 | 7333.6 | 7333.6 | 7110.9 |
| 70° | 4045.9 | 4042.9 | 4299.4 | 4767.3 | 5183.9 | 5797.5 | 6360.8 | 7143.7 | 7706.1 | 7735.8 | 7499.8 |
| 72.5° | 2424.7 | 2481.1 | 2639.1 | 2851.5 | 3205.6 | 3948.5 | 4996.1 | 6402.9 | 7187.9 | 7219.7 | 6937.5 |
| 75° | 1703.3 | 1661.3 | 1655.1 | 1667.4 | 1728.0 | 1910.6 | 2487.3 | 3930.0 | 5210.6 | 5259.8 | 4986.9 |
| 77.5° | 1089.7 | 1080.5 | 1084.6 | 1097.9 | 1101.0 | 1118.5 | 1146.2 | 1347.3 | 2415.5 | 2651.5 | 2639.1 |
| 80° | 939.9 | 936.8 | 937.9 | 922.5 | 892.7 | 881.4 | 916.3 | 888.6 | 863.0 | 898.9 | 849.6 |
| 82.5° | 630.0 | 641.3 | 659.8 | 684.4 | 743.9 | 764.4 | 753.2 | 748.0 | 667.0 | 648.5 | 575.6 |
| 85° | 466.9 | 460.7 | 467.9 | 467.9 | 452.5 | 437.1 | 448.4 | 437.1 | 386.8 | 362.2 | 320.1 |
| 87.5° | 252.4 | 253.4 | 274.0 | 282.2 | 281.2 | 240.1 | 198.0 | 171.4 | 154.9 | 143.7 | 121.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: MEM-E03-LED-E-U-SL4-7050

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1765.9 | 1765.9 | 1765.9 | 1765.9 | 1765.9 | 1765.9 | 1765.9 | 1765.9 | 1765.9 | 1765.9 | 1765.9 |
| 2.5° | 1760.8 | 1757.7 | 1758.7 | 1758.7 | 1757.7 | 1759.8 | 1756.7 | 1755.7 | 1756.7 | 1756.7 | 1756.7 |
| 5° | 1743.4 | 1739.2 | 1739.2 | 1738.2 | 1736.2 | 1736.2 | 1732.1 | 1731.0 | 1729.0 | 1732.1 | 1730.0 |
| 7.5° | 1718.7 | 1712.6 | 1707.4 | 1703.3 | 1701.3 | 1698.2 | 1693.1 | 1691.0 | 1689.0 | 1687.9 | 1685.9 |
| 10° | 1689.0 | 1681.8 | 1671.5 | 1663.3 | 1659.2 | 1651.0 | 1644.8 | 1636.6 | 1636.6 | 1632.5 | 1628.4 |
| 12.5° | 1653.1 | 1642.8 | 1632.5 | 1621.2 | 1614.1 | 1602.8 | 1592.5 | 1583.3 | 1576.1 | 1566.9 | 1560.7 |
| 15° | 1617.1 | 1601.8 | 1590.5 | 1579.2 | 1565.8 | 1550.4 | 1538.1 | 1523.8 | 1510.4 | 1496.1 | 1492.0 |
| 17.5° | 1578.2 | 1565.8 | 1555.6 | 1542.2 | 1527.9 | 1509.4 | 1493.0 | 1469.4 | 1453.0 | 1435.5 | 1422.2 |
| 20° | 1552.5 | 1538.1 | 1526.8 | 1514.5 | 1499.1 | 1477.6 | 1456.0 | 1429.4 | 1404.7 | 1379.1 | 1359.6 |
| 22.5° | 1539.2 | 1515.6 | 1505.3 | 1494.0 | 1478.6 | 1455.0 | 1430.4 | 1397.6 | 1366.8 | 1332.9 | 1302.1 |
| 25° | 1544.3 | 1512.5 | 1492.0 | 1479.6 | 1466.3 | 1442.7 | 1410.9 | 1374.0 | 1339.1 | 1296.0 | 1261.1 |
| 27.5° | 1566.9 | 1523.8 | 1492.0 | 1471.4 | 1457.1 | 1432.4 | 1399.6 | 1357.5 | 1315.5 | 1270.3 | 1228.2 |
| 30° | 1596.6 | 1542.2 | 1501.2 | 1471.4 | 1449.9 | 1423.2 | 1387.3 | 1342.1 | 1296.0 | 1245.7 | 1197.5 |
| 32.5° | 1630.5 | 1563.8 | 1514.5 | 1473.5 | 1438.6 | 1404.7 | 1367.8 | 1320.6 | 1272.4 | 1219.0 | 1171.8 |
| 35° | 1657.2 | 1580.2 | 1523.8 | 1469.4 | 1423.2 | 1381.1 | 1338.0 | 1293.9 | 1245.7 | 1195.4 | 1145.1 |
| 37.5° | 1672.6 | 1590.5 | 1523.8 | 1455.0 | 1398.6 | 1354.5 | 1309.3 | 1266.2 | 1220.0 | 1170.8 | 1126.7 |
| 40° | 1678.7 | 1594.6 | 1517.6 | 1438.6 | 1372.9 | 1322.6 | 1280.6 | 1236.5 | 1195.4 | 1152.3 | 1113.3 |
| 42.5° | 1675.6 | 1591.5 | 1509.4 | 1423.2 | 1352.4 | 1298.0 | 1251.8 | 1210.8 | 1176.9 | 1141.0 | 1108.2 |
| 45° | 1663.3 | 1581.2 | 1501.2 | 1416.0 | 1345.2 | 1289.8 | 1242.6 | 1203.6 | 1171.8 | 1139.0 | 1113.3 |
| 47.5° | 1653.1 | 1577.1 | 1506.3 | 1433.5 | 1365.7 | 1309.3 | 1258.0 | 1214.9 | 1188.2 | 1162.6 | 1146.2 |
| 50° | 1661.3 | 1588.4 | 1517.6 | 1448.9 | 1383.2 | 1325.7 | 1273.4 | 1233.4 | 1218.0 | 1213.9 | 1208.8 |
| 52.5° | 1683.8 | 1612.0 | 1552.5 | 1504.3 | 1474.5 | 1453.0 | 1399.6 | 1390.4 | 1377.0 | 1369.9 | 1352.4 |
| 55° | 1830.6 | 1800.8 | 1854.2 | 1912.7 | 1922.9 | 1987.6 | 2013.2 | 2015.3 | 1992.7 | 1912.7 | 1725.9 |
| 57.5° | 2427.8 | 2501.6 | 2524.2 | 2659.7 | 2696.6 | 2667.9 | 2628.9 | 2626.8 | 2557.1 | 2451.4 | 2179.4 |
| 60° | 3494.9 | 3455.9 | 3407.7 | 3319.5 | 3236.3 | 3147.1 | 3023.9 | 2929.5 | 2840.3 | 2678.1 | 2391.9 |
| 62.5° | 4611.3 | 4271.7 | 4024.4 | 3770.9 | 3565.7 | 3386.1 | 3207.6 | 3055.7 | 2911.1 | 2686.3 | 2379.5 |
| 65° | 5580.0 | 4888.4 | 4386.6 | 4005.9 | 3687.8 | 3425.1 | 3188.1 | 2980.8 | 2798.2 | 2517.0 | 2206.1 |
| 67.5° | 6210.0 | 5215.7 | 4465.6 | 3897.1 | 3447.7 | 3113.2 | 2764.3 | 2437.0 | 2257.4 | 2030.7 | 1872.6 |
| 70° | 6371.1 | 4984.8 | 3938.2 | 3209.7 | 2604.3 | 2205.1 | 1793.6 | 1436.5 | 1271.3 | 1207.7 | 1212.9 |
| 72.5° | 5747.2 | 3940.2 | 2792.0 | 2041.9 | 1598.7 | 1267.2 | 1030.2 | 792.2 | 618.7 | 519.2 | 506.9 |
| 75° | 3754.5 | 2192.8 | 1325.7 | 923.5 | 734.7 | 584.9 | 460.7 | 387.9 | 334.5 | 269.9 | 225.7 |
| 77.5° | 1419.1 | 835.2 | 595.1 | 485.3 | 359.1 | 250.4 | 195.0 | 164.2 | 150.8 | 146.7 | 132.4 |
| 80° | 727.5 | 579.7 | 414.5 | 272.9 | 190.9 | 152.9 | 128.3 | 108.8 | 100.6 | 96.5 | 98.5 |
| 82.5° | 490.5 | 365.3 | 228.8 | 164.2 | 132.4 | 113.9 | 90.3 | 75.9 | 67.7 | 66.7 | 71.8 |
| 85° | 272.9 | 182.6 | 133.4 | 110.8 | 97.5 | 85.2 | 68.7 | 56.4 | 52.3 | 55.4 | 64.6 |
| 87.5° | 85.2 | 84.1 | 60.5 | 49.3 | 51.3 | 44.1 | 32.8 | 24.6 | 24.6 | 31.8 | 45.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: MEM-E03-LED-E-U-SL4-7050

CANDELA DISTRIBUTION (continued):

| | 105° | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1765.9 | 1765.9 | 1765.9 | 1765.9 | 1765.9 | 1765.9 | 1765.9 | 1765.9 | 1765.9 | 1765.9 | 1765.9 |
| 2.5° | 1756.7 | 1758.7 | 1762.8 | 1759.8 | 1760.8 | 1761.8 | 1764.9 | 1769.0 | 1765.9 | 1763.9 | 1770.0 |
| 5° | 1732.1 | 1732.1 | 1737.2 | 1735.1 | 1739.2 | 1743.4 | 1745.4 | 1752.6 | 1750.5 | 1748.5 | 1756.7 |
| 7.5° | 1686.9 | 1687.9 | 1695.1 | 1693.1 | 1701.3 | 1702.3 | 1710.5 | 1716.7 | 1716.7 | 1720.8 | 1728.0 |
| 10° | 1629.5 | 1629.5 | 1635.6 | 1636.6 | 1641.8 | 1645.9 | 1655.1 | 1666.4 | 1668.4 | 1675.6 | 1685.9 |
| 12.5° | 1564.8 | 1562.8 | 1567.9 | 1567.9 | 1572.0 | 1577.1 | 1587.4 | 1600.7 | 1602.8 | 1614.1 | 1627.4 |
| 15° | 1484.8 | 1481.7 | 1479.6 | 1481.7 | 1483.7 | 1484.8 | 1500.2 | 1513.5 | 1521.7 | 1534.0 | 1547.4 |
| 17.5° | 1407.8 | 1396.5 | 1391.4 | 1391.4 | 1392.4 | 1392.4 | 1398.6 | 1414.0 | 1425.3 | 1444.8 | 1464.3 |
| 20° | 1339.1 | 1319.6 | 1312.4 | 1296.0 | 1292.9 | 1285.7 | 1290.8 | 1308.3 | 1328.8 | 1344.2 | 1359.6 |
| 22.5° | 1274.4 | 1253.9 | 1233.4 | 1213.9 | 1198.5 | 1189.3 | 1198.5 | 1209.8 | 1217.0 | 1229.3 | 1233.4 |
| 25° | 1225.2 | 1191.3 | 1162.6 | 1131.8 | 1115.4 | 1107.2 | 1106.1 | 1105.1 | 1099.0 | 1096.9 | 1096.9 |
| 27.5° | 1186.2 | 1146.2 | 1103.1 | 1069.2 | 1046.6 | 1031.2 | 1013.8 | 1001.5 | 986.1 | 965.6 | 955.3 |
| 30° | 1153.3 | 1110.2 | 1063.0 | 1023.0 | 994.3 | 964.5 | 928.6 | 900.9 | 873.2 | 848.6 | 827.0 |
| 32.5° | 1123.6 | 1079.5 | 1033.3 | 991.2 | 942.0 | 890.7 | 845.5 | 812.7 | 764.4 | 731.6 | 703.9 |
| 35° | 1101.0 | 1056.9 | 1013.8 | 958.4 | 890.7 | 825.0 | 766.5 | 718.3 | 669.0 | 625.9 | 589.0 |
| 37.5° | 1084.6 | 1047.7 | 1001.5 | 926.6 | 841.4 | 762.4 | 700.8 | 643.4 | 584.9 | 526.4 | 480.2 |
| 40° | 1079.5 | 1047.7 | 989.2 | 891.7 | 794.2 | 709.0 | 638.2 | 567.4 | 502.8 | 440.2 | 393.0 |
| 42.5° | 1082.5 | 1048.7 | 969.7 | 860.9 | 755.2 | 662.9 | 582.8 | 500.7 | 423.8 | 357.1 | 309.9 |
| 45° | 1093.8 | 1048.7 | 949.1 | 827.0 | 719.3 | 620.8 | 525.4 | 427.9 | 338.6 | 285.3 | 264.7 |
| 47.5° | 1127.7 | 1055.9 | 932.7 | 802.4 | 687.5 | 574.6 | 460.7 | 349.9 | 274.0 | 251.4 | 251.4 |
| 50° | 1180.0 | 1077.4 | 930.7 | 783.9 | 651.6 | 521.3 | 380.7 | 276.0 | 242.2 | 241.1 | 247.3 |
| 52.5° | 1269.3 | 1115.4 | 940.9 | 771.6 | 613.6 | 449.4 | 296.5 | 238.1 | 230.9 | 237.0 | 246.3 |
| 55° | 1442.7 | 1182.1 | 955.3 | 749.1 | 550.0 | 352.0 | 243.2 | 225.7 | 228.8 | 236.0 | 244.2 |
| 57.5° | 1759.8 | 1316.5 | 970.7 | 700.8 | 445.3 | 266.8 | 220.6 | 221.6 | 226.8 | 234.0 | 241.1 |
| 60° | 1978.3 | 1482.7 | 1001.5 | 619.8 | 331.4 | 220.6 | 211.4 | 219.6 | 225.7 | 230.9 | 237.0 |
| 62.5° | 1996.8 | 1543.3 | 1024.1 | 528.4 | 246.3 | 201.1 | 203.2 | 215.5 | 223.7 | 225.7 | 228.8 |
| 65° | 1886.0 | 1465.3 | 959.4 | 436.1 | 204.2 | 190.9 | 198.0 | 209.3 | 217.5 | 218.6 | 221.6 |
| 67.5° | 1643.8 | 1302.1 | 818.8 | 331.4 | 186.8 | 183.7 | 191.9 | 199.1 | 205.2 | 210.4 | 214.5 |
| 70° | 1273.4 | 1063.0 | 658.8 | 257.6 | 173.4 | 172.4 | 179.6 | 187.8 | 193.9 | 199.1 | 205.2 |
| 72.5° | 671.1 | 755.2 | 490.5 | 206.2 | 159.0 | 160.1 | 167.3 | 174.4 | 178.5 | 183.7 | 189.8 |
| 75° | 208.3 | 320.1 | 302.7 | 165.2 | 141.6 | 145.7 | 149.8 | 156.0 | 163.2 | 166.2 | 169.3 |
| 77.5° | 123.1 | 130.3 | 158.0 | 129.3 | 123.1 | 126.2 | 131.3 | 136.5 | 141.6 | 145.7 | 148.8 |
| 80° | 99.5 | 101.6 | 102.6 | 102.6 | 102.6 | 106.7 | 110.8 | 118.0 | 122.1 | 124.2 | 125.2 |
| 82.5° | 78.0 | 83.1 | 84.1 | 82.1 | 85.2 | 89.3 | 91.3 | 95.4 | 96.5 | 98.5 | 100.6 |
| 85° | 64.6 | 63.6 | 65.7 | 66.7 | 62.6 | 62.6 | 60.5 | 60.5 | 64.6 | 71.8 | 72.9 |
| 87.5° | 50.3 | 44.1 | 35.9 | 33.9 | 31.8 | 29.8 | 27.7 | 27.7 | 28.7 | 32.8 | 35.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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| 35° | 555.1 | 531.5 | 508.9 | 502.8 | 498.7 |
| 37.5° | 447.4 | 418.7 | 390.9 | 381.7 | 379.7 |
| 40° | 349.9 | 326.3 | 307.8 | 302.7 | 300.6 |
| 42.5° | 284.2 | 274.0 | 270.9 | 270.9 | 271.9 |
| 45° | 259.6 | 260.6 | 263.7 | 265.8 | 266.8 |
| 47.5° | 254.5 | 258.6 | 262.7 | 266.8 | 267.8 |
| 50° | 254.5 | 257.6 | 260.6 | 264.7 | 265.8 |
| 52.5° | 252.4 | 255.5 | 256.5 | 258.6 | 260.6 |
| 55° | 250.4 | 251.4 | 251.4 | 252.4 | 254.5 |
| 57.5° | 245.2 | 246.3 | 244.2 | 245.2 | 249.3 |
| 60° | 240.1 | 241.1 | 239.1 | 241.1 | 242.2 |
| 62.5° | 232.9 | 232.9 | 231.9 | 232.9 | 234.0 |
| 65° | 224.7 | 221.6 | 223.7 | 222.7 | 223.7 |
| 67.5° | 214.5 | 210.4 | 209.3 | 209.3 | 210.4 |
| 70° | 200.1 | 197.0 | 196.0 | 198.0 | 200.1 |
| 72.5° | 182.6 | 184.7 | 187.8 | 190.9 | 196.0 |
| 75° | 170.3 | 173.4 | 177.5 | 187.8 | 195.0 |
| 77.5° | 152.9 | 151.9 | 156.0 | 167.3 | 177.5 |
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| 85° | 68.7 | 65.7 | 61.6 | 60.5 | 59.5 |
| 87.5° | 34.9 | 36.9 | 33.9 | 30.8 | 30.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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