

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: P140886

Luminaire Tested: **MEM-F03-LED-E-U-RW-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P140886
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33689)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: MEM-F03-LED-E-U-RW-7050
Description: EPIC MODERN MEDIUM DECORATIVE LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (21) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7515.2 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B3 - U0 - G1

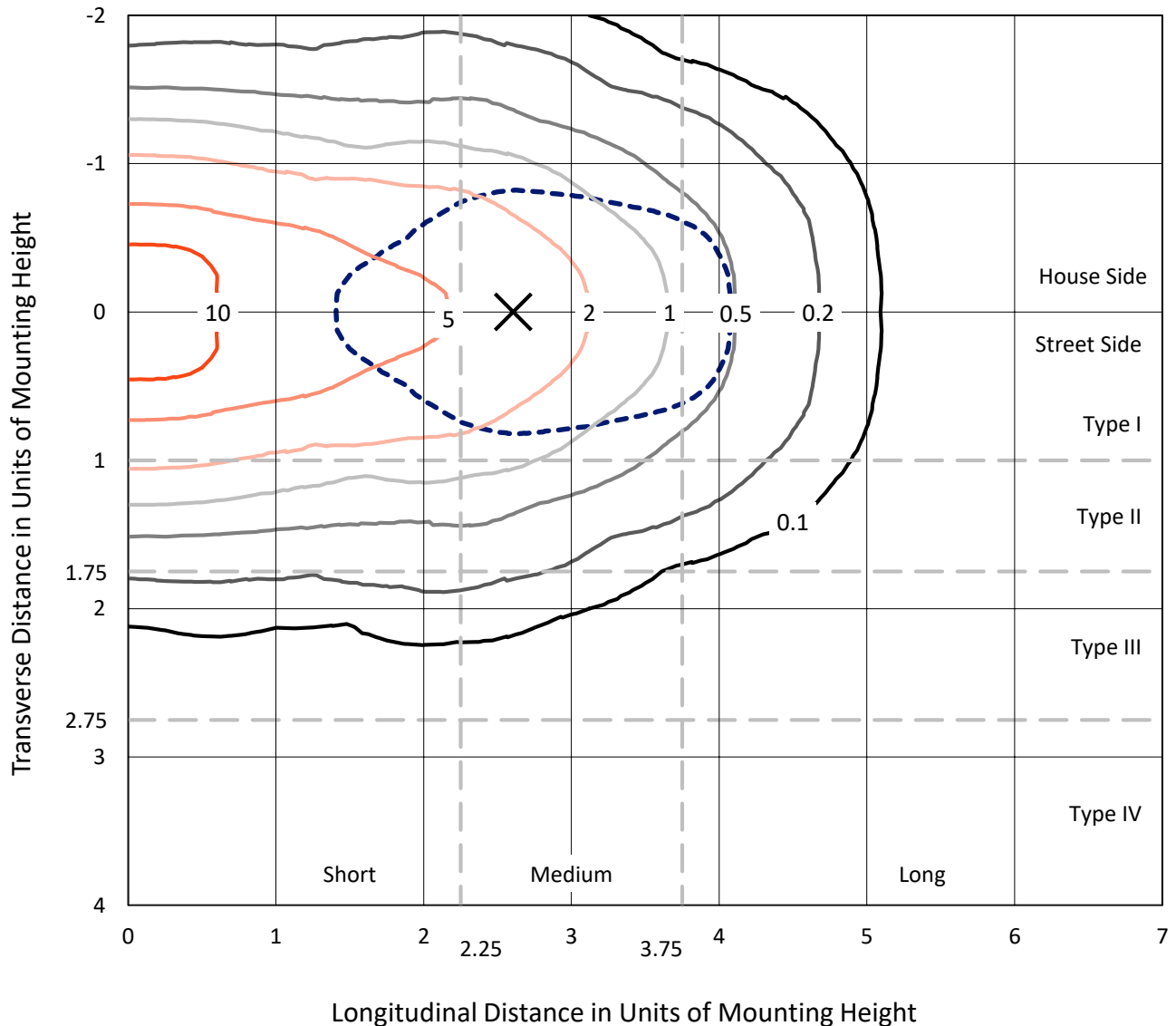
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

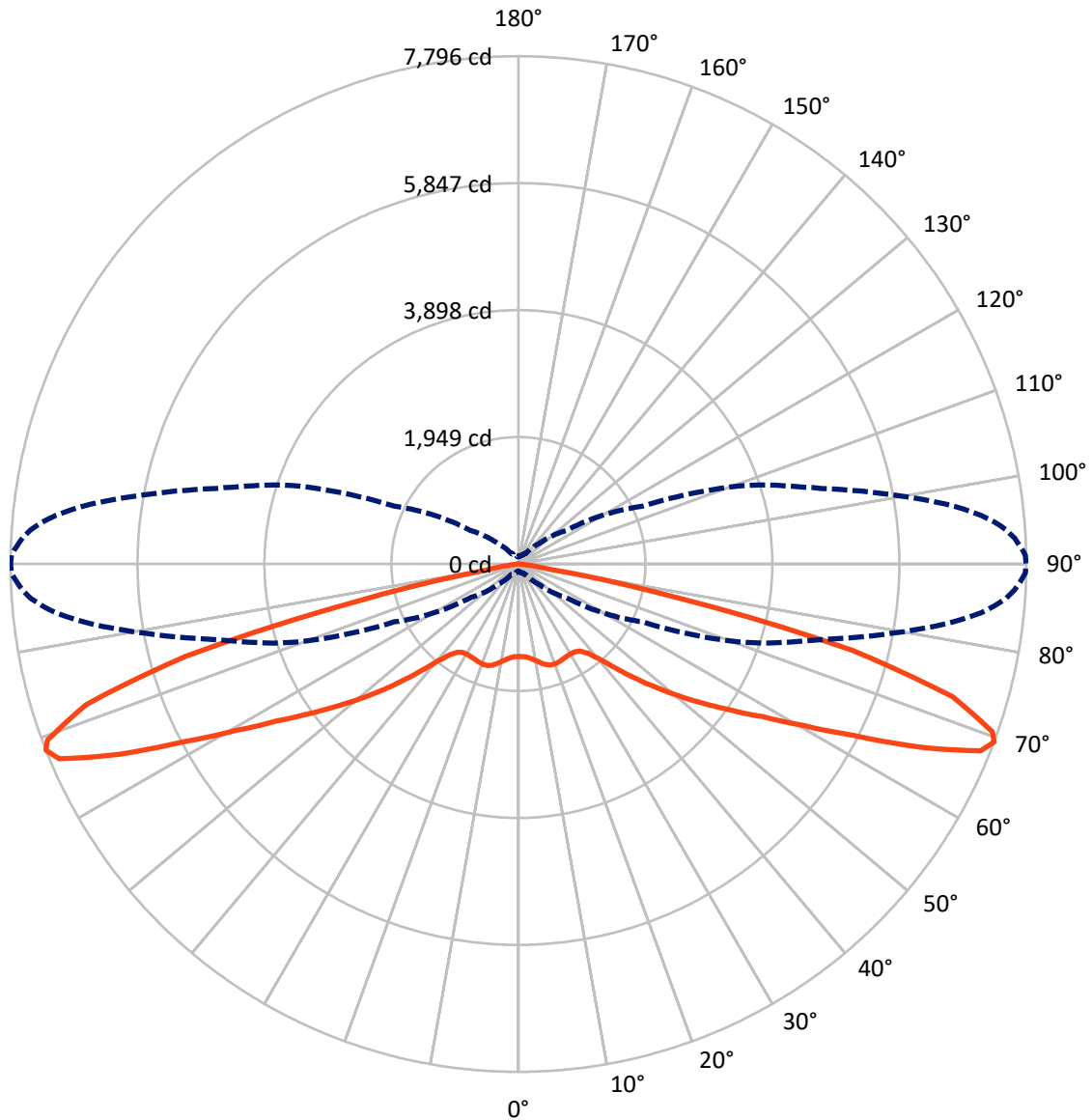
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.5 fc
 Type V - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3757.6 | 0.0 | 3757.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3757.6 | 0.0 | 3757.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 7515.2 | 0.0 | 7515.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 138.9 | 1.8 |
| 10°-20° | 436.7 | 5.8 |
| 20°-30° | 706.3 | 9.4 |
| 30°-40° | 882.2 | 11.7 |
| 40°-50° | 1103.4 | 14.7 |
| 50°-60° | 1359.7 | 18.1 |
| 60°-70° | 1683.3 | 22.4 |
| 70°-80° | 1100.2 | 14.6 |
| 80°-90° | 104.5 | 1.4 |
| 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° | 7515.2 | 100.0 |
| 0°-180° | 7515.2 | 100.0 |



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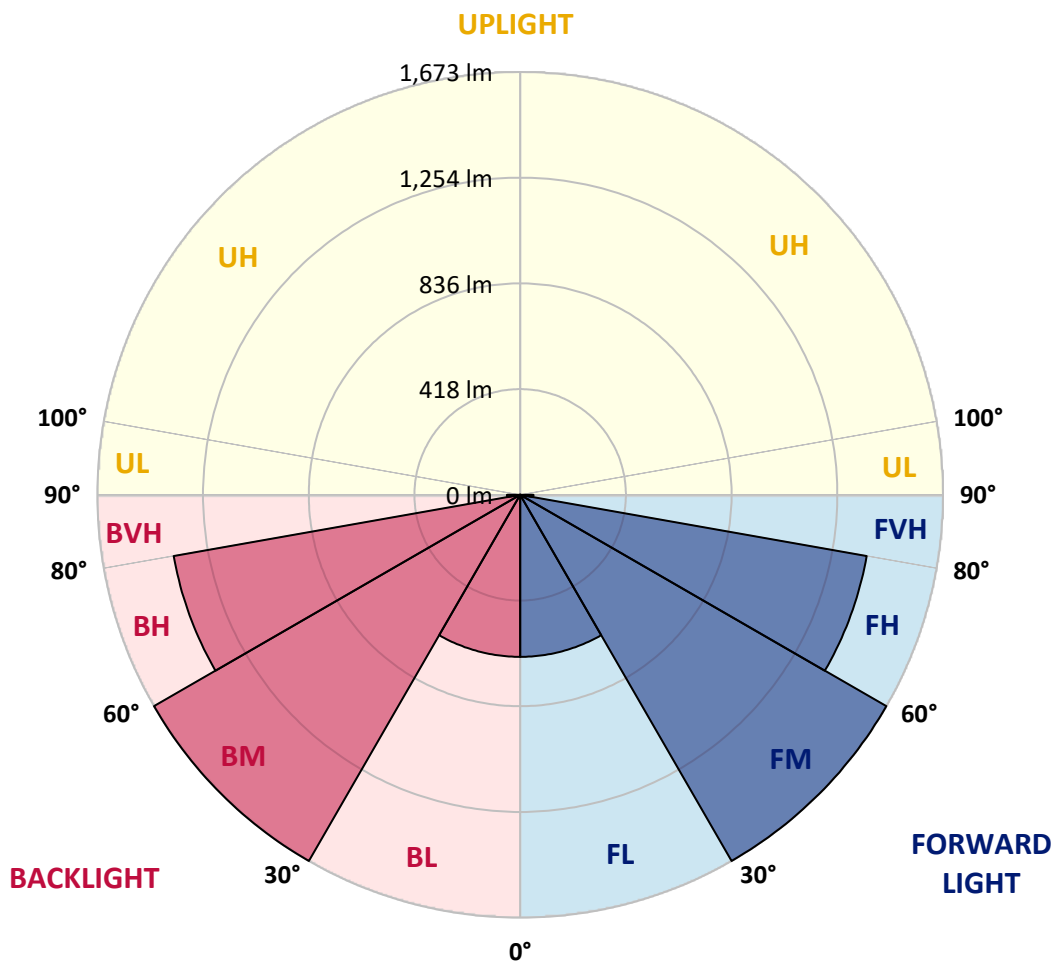
CATALOG NUMBER: MEM-F03-LED-E-U-RW-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 641.0 | 8.5 | | | |
| FM | (30°-60°) | 1672.6 | 22.3 | | | |
| FH | (60°-80°) | 1391.8 | 18.5 | | | G1/1800 |
| FVH | (80°-90°) | 52.3 | 0.7 | | | G1/100 |
| BL | (0°-30°) | 641.0 | 8.5 | B2/1000 | | |
| BM | (30°-60°) | 1672.6 | 22.3 | B2/2500 | | |
| BH | (60°-80°) | 1391.8 | 18.5 | B3/2500 | | G1/1800 |
| BVH | (80°-90°) | 52.3 | 0.7 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1

Type V Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 67° | 68° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1418.9 | 1418.9 | 1418.9 | 1418.9 | 1418.9 | 1418.9 | 1418.9 | 1418.9 | 1418.9 | 1418.9 | 1418.9 |
| 2.5° | 1428.2 | 1429.0 | 1426.4 | 1427.3 | 1428.2 | 1427.3 | 1426.0 | 1426.1 | 1425.7 | 1425.2 | 1424.8 |
| 5° | 1437.5 | 1437.9 | 1436.6 | 1438.8 | 1439.2 | 1440.4 | 1440.5 | 1440.8 | 1440.6 | 1440.4 | 1440.1 |
| 7.5° | 1450.6 | 1452.3 | 1451.0 | 1454.0 | 1457.0 | 1461.2 | 1463.4 | 1468.4 | 1468.3 | 1468.2 | 1468.2 |
| 10° | 1462.9 | 1464.6 | 1464.6 | 1471.4 | 1478.6 | 1486.6 | 1495.1 | 1503.2 | 1503.6 | 1504.2 | 1504.6 |
| 12.5° | 1472.2 | 1473.4 | 1475.6 | 1487.9 | 1504.0 | 1517.6 | 1532.4 | 1545.0 | 1545.6 | 1546.1 | 1546.6 |
| 15° | 1468.4 | 1471.4 | 1481.1 | 1500.6 | 1529.0 | 1551.4 | 1569.6 | 1584.9 | 1585.9 | 1586.9 | 1587.9 |
| 17.5° | 1455.2 | 1459.9 | 1473.9 | 1507.0 | 1550.6 | 1586.6 | 1608.2 | 1612.4 | 1613.1 | 1613.8 | 1614.4 |
| 20° | 1426.9 | 1433.7 | 1455.7 | 1502.7 | 1567.1 | 1615.8 | 1637.4 | 1629.8 | 1629.1 | 1628.4 | 1627.8 |
| 22.5° | 1379.4 | 1388.4 | 1415.9 | 1482.8 | 1568.4 | 1636.9 | 1658.2 | 1636.9 | 1634.6 | 1632.2 | 1629.8 |
| 25° | 1315.9 | 1323.2 | 1354.4 | 1433.7 | 1548.9 | 1640.8 | 1671.3 | 1641.6 | 1637.8 | 1634.0 | 1630.2 |
| 27.5° | 1238.8 | 1244.8 | 1283.8 | 1368.0 | 1500.6 | 1621.3 | 1679.8 | 1649.7 | 1644.8 | 1639.9 | 1634.9 |
| 30° | 1152.0 | 1157.1 | 1199.9 | 1289.7 | 1432.8 | 1578.5 | 1678.9 | 1667.9 | 1662.0 | 1656.2 | 1650.4 |
| 32.5° | 1065.6 | 1067.8 | 1105.9 | 1204.6 | 1357.4 | 1515.4 | 1665.0 | 1695.8 | 1690.2 | 1684.5 | 1678.8 |
| 35° | 970.8 | 977.6 | 1018.2 | 1125.8 | 1272.3 | 1446.0 | 1646.3 | 1734.8 | 1731.6 | 1728.4 | 1725.2 |
| 37.5° | 894.5 | 896.6 | 940.2 | 1052.0 | 1203.3 | 1382.8 | 1622.6 | 1784.8 | 1787.1 | 1789.4 | 1791.7 |
| 40° | 818.3 | 818.2 | 861.5 | 977.6 | 1134.2 | 1326.1 | 1602.7 | 1846.2 | 1857.8 | 1869.4 | 1881.0 |
| 42.5° | 734.8 | 740.8 | 783.1 | 898.8 | 1067.4 | 1277.8 | 1592.5 | 1919.9 | 1941.8 | 1963.6 | 1985.5 |
| 45° | 656.9 | 660.7 | 703.9 | 817.1 | 983.9 | 1222.8 | 1589.6 | 2002.1 | 2035.3 | 2068.5 | 2101.7 |
| 47.5° | 580.2 | 585.8 | 626.8 | 730.6 | 892.8 | 1149.5 | 1585.8 | 2095.7 | 2138.1 | 2180.6 | 2223.0 |
| 50° | 509.1 | 512.4 | 558.2 | 652.7 | 803.0 | 1054.6 | 1560.8 | 2200.3 | 2252.1 | 2304.0 | 2355.8 |
| 52.5° | 433.7 | 440.5 | 478.2 | 575.6 | 712.4 | 952.6 | 1495.1 | 2314.2 | 2376.9 | 2439.6 | 2502.3 |
| 55° | 355.0 | 353.2 | 398.6 | 490.0 | 633.2 | 854.7 | 1373.9 | 2412.9 | 2488.5 | 2564.2 | 2639.8 |
| 57.5° | 260.0 | 265.6 | 307.0 | 399.8 | 541.3 | 772.6 | 1231.2 | 2464.1 | 2558.5 | 2652.9 | 2747.2 |
| 60° | 186.4 | 194.0 | 230.0 | 303.2 | 449.8 | 692.1 | 1085.6 | 2428.6 | 2553.6 | 2678.7 | 2803.7 |
| 62.5° | 145.7 | 149.1 | 180.0 | 227.4 | 350.7 | 607.8 | 987.6 | 2336.2 | 2508.6 | 2681.0 | 2853.4 |
| 65° | 127.1 | 130.9 | 158.4 | 183.0 | 266.5 | 527.8 | 928.9 | 2262.6 | 2490.1 | 2717.6 | 2945.1 |
| 67.5° | 115.6 | 120.3 | 144.0 | 161.0 | 218.6 | 459.6 | 914.8 | 2202.4 | 2469.3 | 2736.2 | 3003.1 |
| 69° | 110.1 | 114.8 | 136.8 | 152.4 | 202.9 | 438.0 | 898.8 | 2101.2 | 2372.0 | 2643.0 | 2913.9 |
| 70° | 107.6 | 111.4 | 132.6 | 147.4 | 197.8 | 425.2 | 862.4 | 1985.5 | 2247.4 | 2509.2 | 2771.0 |
| 72.5° | 99.1 | 101.2 | 120.7 | 135.1 | 187.2 | 355.8 | 683.2 | 1486.2 | 1705.0 | 1923.8 | 2142.6 |
| 75° | 87.6 | 91.0 | 108.8 | 123.7 | 150.4 | 227.9 | 448.1 | 898.3 | 1060.4 | 1222.4 | 1384.4 |
| 77.5° | 75.4 | 78.4 | 93.6 | 118.2 | 115.6 | 138.0 | 257.5 | 501.8 | 589.4 | 677.1 | 764.6 |
| 80° | 65.2 | 68.2 | 82.2 | 109.6 | 94.0 | 102.1 | 173.6 | 327.3 | 360.6 | 393.9 | 427.2 |
| 82.5° | 51.2 | 53.4 | 69.1 | 89.4 | 72.8 | 75.8 | 130.0 | 285.8 | 305.9 | 326.0 | 346.1 |
| 85° | 32.6 | 33.8 | 50.4 | 61.0 | 50.8 | 44.9 | 81.7 | 209.6 | 225.5 | 241.3 | 257.2 |
| 87.5° | 11.4 | 16.1 | 22.4 | 21.2 | 21.2 | 16.1 | 28.8 | 77.5 | 83.7 | 89.9 | 96.1 |
| 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-F03-LED-E-U-RW-7050

CANDELA DISTRIBUTION (continued):

| | 69° | 70° | 71° | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1418.9 | 1418.9 | 1418.9 | 1418.9 | 1418.9 | 1418.9 | 1418.9 | 1418.9 | 1418.9 | 1418.9 | 1418.9 |
| 2.5° | 1424.4 | 1424.0 | 1424.4 | 1424.4 | 1423.9 | 1423.6 | 1423.5 | 1423.1 | 1422.2 | 1422.2 | 1421.8 |
| 5° | 1439.8 | 1439.6 | 1440.4 | 1440.1 | 1440.4 | 1440.1 | 1440.0 | 1439.6 | 1440.0 | 1438.4 | 1438.0 |
| 7.5° | 1468.1 | 1468.0 | 1468.0 | 1469.2 | 1468.4 | 1468.0 | 1468.8 | 1468.8 | 1468.8 | 1468.0 | 1468.0 |
| 10° | 1505.2 | 1505.6 | 1506.6 | 1507.4 | 1507.4 | 1507.4 | 1509.1 | 1507.8 | 1510.4 | 1507.8 | 1509.0 |
| 12.5° | 1547.1 | 1547.6 | 1549.7 | 1550.6 | 1551.4 | 1551.4 | 1551.4 | 1553.9 | 1555.6 | 1555.2 | 1555.6 |
| 15° | 1588.9 | 1589.9 | 1590.4 | 1591.7 | 1591.6 | 1592.0 | 1593.8 | 1596.8 | 1595.8 | 1597.6 | 1597.6 |
| 17.5° | 1615.1 | 1615.8 | 1615.4 | 1615.4 | 1616.2 | 1617.5 | 1619.2 | 1620.8 | 1620.4 | 1621.7 | 1622.6 |
| 20° | 1627.1 | 1626.4 | 1625.1 | 1624.2 | 1623.8 | 1624.7 | 1624.7 | 1625.2 | 1625.9 | 1626.0 | 1626.0 |
| 22.5° | 1627.5 | 1625.1 | 1622.2 | 1620.4 | 1618.4 | 1617.1 | 1617.9 | 1617.0 | 1617.1 | 1617.1 | 1616.2 |
| 25° | 1626.4 | 1622.6 | 1617.9 | 1614.6 | 1611.2 | 1609.1 | 1606.9 | 1606.0 | 1604.4 | 1604.4 | 1604.4 |
| 27.5° | 1630.0 | 1625.1 | 1620.4 | 1614.1 | 1609.4 | 1606.9 | 1604.0 | 1601.0 | 1599.2 | 1597.6 | 1597.6 |
| 30° | 1644.5 | 1638.6 | 1632.8 | 1625.1 | 1618.8 | 1616.6 | 1611.1 | 1608.2 | 1604.0 | 1601.8 | 1600.9 |
| 32.5° | 1673.2 | 1667.5 | 1659.4 | 1651.0 | 1645.8 | 1639.5 | 1634.8 | 1628.5 | 1623.9 | 1620.9 | 1617.1 |
| 35° | 1722.0 | 1718.8 | 1712.0 | 1706.4 | 1698.8 | 1691.6 | 1682.3 | 1678.9 | 1669.2 | 1667.4 | 1662.8 |
| 37.5° | 1794.0 | 1796.2 | 1795.0 | 1790.8 | 1785.6 | 1779.3 | 1775.4 | 1768.3 | 1764.4 | 1760.6 | 1756.4 |
| 40° | 1892.6 | 1904.2 | 1908.0 | 1912.7 | 1914.0 | 1919.4 | 1913.1 | 1912.3 | 1907.2 | 1911.4 | 1908.9 |
| 42.5° | 2007.3 | 2029.2 | 2041.0 | 2055.0 | 2070.2 | 2084.2 | 2095.2 | 2113.9 | 2111.8 | 2126.2 | 2136.4 |
| 45° | 2134.9 | 2168.1 | 2198.6 | 2221.9 | 2251.1 | 2283.3 | 2311.7 | 2338.0 | 2367.6 | 2384.5 | 2409.5 |
| 47.5° | 2265.4 | 2307.8 | 2351.5 | 2394.7 | 2436.2 | 2477.7 | 2528.5 | 2574.6 | 2619.6 | 2650.1 | 2688.6 |
| 50° | 2407.6 | 2459.4 | 2512.0 | 2565.0 | 2623.8 | 2689.0 | 2745.8 | 2806.0 | 2867.8 | 2930.4 | 2974.5 |
| 52.5° | 2565.0 | 2627.6 | 2684.8 | 2740.7 | 2813.5 | 2882.6 | 2956.3 | 3031.7 | 3125.2 | 3193.5 | 3254.0 |
| 55° | 2715.4 | 2791.1 | 2853.8 | 2920.8 | 2997.0 | 3073.6 | 3163.8 | 3258.3 | 3357.4 | 3455.6 | 3544.6 |
| 57.5° | 2841.6 | 2936.0 | 3010.5 | 3077.0 | 3158.8 | 3247.2 | 3344.2 | 3461.2 | 3574.2 | 3696.2 | 3811.0 |
| 60° | 2928.7 | 3053.8 | 3143.5 | 3223.6 | 3318.4 | 3416.7 | 3543.4 | 3681.4 | 3830.0 | 3981.7 | 4129.0 |
| 62.5° | 3025.8 | 3198.2 | 3321.0 | 3435.3 | 3547.6 | 3656.8 | 3799.6 | 3971.0 | 4172.7 | 4356.1 | 4551.4 |
| 65° | 3172.6 | 3400.2 | 3581.4 | 3727.2 | 3886.4 | 4045.6 | 4212.1 | 4412.4 | 4641.6 | 4909.2 | 5136.6 |
| 67.5° | 3270.0 | 3537.0 | 3767.4 | 3976.2 | 4162.1 | 4355.6 | 4565.8 | 4805.5 | 5082.0 | 5355.2 | 5638.2 |
| 69° | 3184.8 | 3455.6 | 3699.2 | 3929.2 | 4132.8 | 4341.2 | 4554.8 | 4796.2 | 5078.6 | 5380.6 | 5679.2 |
| 70° | 3032.9 | 3294.7 | 3546.3 | 3788.5 | 3987.6 | 4205.3 | 4415.4 | 4645.4 | 4931.7 | 5233.7 | 5558.5 |
| 72.5° | 2361.4 | 2580.2 | 2838.6 | 3072.4 | 3310.0 | 3508.6 | 3698.4 | 3929.2 | 4218.0 | 4505.6 | 4822.0 |
| 75° | 1546.5 | 1708.6 | 1944.9 | 2137.2 | 2342.6 | 2528.9 | 2666.6 | 2895.8 | 3071.0 | 3341.7 | 3635.6 |
| 77.5° | 852.2 | 939.9 | 1062.6 | 1219.4 | 1307.8 | 1413.0 | 1550.6 | 1634.0 | 1758.5 | 1947.8 | 2036.0 |
| 80° | 460.6 | 493.8 | 545.5 | 578.1 | 604.4 | 578.6 | 564.6 | 589.6 | 579.0 | 576.0 | 547.6 |
| 82.5° | 366.2 | 386.3 | 413.0 | 432.0 | 419.7 | 364.2 | 305.4 | 262.6 | 235.1 | 197.8 | 169.4 |
| 85° | 273.0 | 288.8 | 299.0 | 311.7 | 309.6 | 280.0 | 224.0 | 173.2 | 136.0 | 108.4 | 94.4 |
| 87.5° | 102.3 | 108.4 | 111.4 | 135.6 | 124.5 | 118.2 | 92.0 | 66.9 | 51.2 | 37.2 | 30.1 |
| 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-F03-LED-E-U-RW-7050

CANDELA DISTRIBUTION (continued):

| | 80° | 81° | 82° | 83° | 84° | 85° | 86° | 87° | 88° | 89° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1418.9 | 1418.9 | 1418.9 | 1418.9 | 1418.9 | 1418.9 | 1418.9 | 1418.9 | 1418.9 | 1418.9 | 1418.9 |
| 2.5° | 1422.7 | 1422.2 | 1422.2 | 1422.2 | 1422.6 | 1421.8 | 1421.0 | 1421.8 | 1421.4 | 1421.4 | 1421.4 |
| 5° | 1439.6 | 1439.2 | 1439.2 | 1439.6 | 1439.2 | 1439.6 | 1439.1 | 1437.4 | 1438.4 | 1438.8 | 1439.2 |
| 7.5° | 1468.8 | 1468.4 | 1468.4 | 1470.6 | 1470.1 | 1469.6 | 1469.2 | 1470.1 | 1468.8 | 1468.8 | 1469.7 |
| 10° | 1509.0 | 1510.8 | 1510.4 | 1511.6 | 1511.2 | 1510.4 | 1509.5 | 1510.3 | 1511.6 | 1512.0 | 1510.3 |
| 12.5° | 1558.2 | 1558.6 | 1557.8 | 1559.8 | 1558.6 | 1561.6 | 1558.2 | 1559.9 | 1561.6 | 1559.0 | 1560.3 |
| 15° | 1598.0 | 1598.0 | 1599.7 | 1600.1 | 1599.7 | 1600.6 | 1603.1 | 1601.8 | 1600.6 | 1602.6 | 1603.5 |
| 17.5° | 1622.1 | 1623.4 | 1623.8 | 1624.2 | 1625.1 | 1625.9 | 1626.4 | 1625.9 | 1626.4 | 1627.2 | 1628.9 |
| 20° | 1627.6 | 1627.2 | 1628.0 | 1628.5 | 1629.8 | 1629.8 | 1630.6 | 1630.2 | 1631.4 | 1631.9 | 1632.3 |
| 22.5° | 1617.9 | 1618.4 | 1618.8 | 1620.0 | 1619.6 | 1620.4 | 1620.9 | 1622.1 | 1621.8 | 1622.6 | 1623.0 |
| 25° | 1604.8 | 1605.6 | 1606.0 | 1605.6 | 1605.6 | 1606.0 | 1606.5 | 1606.0 | 1607.8 | 1608.6 | 1608.6 |
| 27.5° | 1596.3 | 1596.4 | 1597.6 | 1597.2 | 1596.3 | 1597.2 | 1596.8 | 1596.8 | 1596.8 | 1597.2 | 1598.4 |
| 30° | 1599.7 | 1598.4 | 1597.6 | 1597.6 | 1597.2 | 1596.3 | 1595.4 | 1594.2 | 1594.2 | 1594.6 | 1594.2 |
| 32.5° | 1617.9 | 1615.4 | 1614.1 | 1612.8 | 1612.0 | 1609.9 | 1607.3 | 1606.4 | 1604.4 | 1604.4 | 1603.5 |
| 35° | 1664.5 | 1661.6 | 1661.6 | 1656.9 | 1654.4 | 1653.1 | 1651.0 | 1644.6 | 1645.0 | 1642.5 | 1641.6 |
| 37.5° | 1757.3 | 1752.2 | 1750.0 | 1754.3 | 1746.2 | 1749.6 | 1742.4 | 1739.4 | 1741.2 | 1736.5 | 1739.0 |
| 40° | 1913.2 | 1921.2 | 1917.8 | 1922.4 | 1924.6 | 1925.4 | 1925.4 | 1918.2 | 1925.4 | 1914.0 | 1917.8 |
| 42.5° | 2138.0 | 2159.2 | 2166.8 | 2169.4 | 2182.5 | 2179.1 | 2175.2 | 2174.8 | 2174.4 | 2180.0 | 2177.0 |
| 45° | 2420.9 | 2423.9 | 2459.9 | 2466.6 | 2473.9 | 2482.0 | 2479.8 | 2489.1 | 2495.9 | 2486.6 | 2487.9 |
| 47.5° | 2710.2 | 2740.3 | 2766.6 | 2781.0 | 2796.6 | 2788.5 | 2794.9 | 2798.8 | 2822.8 | 2820.3 | 2818.2 |
| 50° | 3028.7 | 3079.1 | 3093.1 | 3108.8 | 3121.0 | 3145.6 | 3143.5 | 3158.3 | 3155.8 | 3175.7 | 3178.2 |
| 52.5° | 3330.7 | 3386.2 | 3442.6 | 3467.1 | 3485.7 | 3514.1 | 3525.1 | 3541.2 | 3535.3 | 3533.6 | 3548.4 |
| 55° | 3631.0 | 3723.8 | 3788.1 | 3851.2 | 3886.4 | 3924.0 | 3940.2 | 3963.0 | 3973.2 | 3977.8 | 3959.2 |
| 57.5° | 3928.8 | 4040.1 | 4149.0 | 4226.9 | 4281.2 | 4337.8 | 4368.0 | 4392.9 | 4422.2 | 4431.9 | 4422.6 |
| 60° | 4276.9 | 4440.0 | 4582.7 | 4686.8 | 4786.8 | 4848.6 | 4913.4 | 4960.9 | 4969.8 | 5010.0 | 5035.9 |
| 62.5° | 4740.6 | 4939.3 | 5120.2 | 5271.8 | 5426.8 | 5542.4 | 5659.3 | 5705.9 | 5752.1 | 5783.4 | 5802.5 |
| 65° | 5373.0 | 5634.8 | 5884.6 | 6100.2 | 6290.4 | 6482.6 | 6619.0 | 6690.6 | 6782.6 | 6800.8 | 6780.8 |
| 67.5° | 5927.4 | 6236.2 | 6546.6 | 6821.1 | 7026.5 | 7226.0 | 7387.8 | 7506.4 | 7592.4 | 7634.6 | 7652.5 |
| 69° | 5988.4 | 6302.2 | 6619.4 | 6893.1 | 7141.7 | 7340.8 | 7506.4 | 7624.2 | 7709.6 | 7783.0 | 7795.6 |
| 70° | 5863.4 | 6215.8 | 6524.2 | 6800.3 | 7056.6 | 7259.4 | 7407.6 | 7542.4 | 7639.8 | 7696.1 | 7716.0 |
| 72.5° | 5147.2 | 5464.0 | 5775.4 | 6093.5 | 6313.2 | 6556.8 | 6678.8 | 6786.8 | 6916.4 | 6990.0 | 6974.0 |
| 75° | 3900.8 | 4174.8 | 4446.3 | 4684.4 | 4853.8 | 4943.5 | 5086.3 | 5190.9 | 5171.8 | 5295.9 | 5299.3 |
| 77.5° | 2200.3 | 2235.8 | 2420.0 | 2395.5 | 2476.9 | 2479.0 | 2500.2 | 2537.0 | 2466.2 | 2611.6 | 2507.3 |
| 80° | 533.6 | 526.4 | 564.6 | 519.7 | 515.8 | 512.0 | 499.4 | 524.4 | 527.7 | 501.9 | 506.6 |
| 82.5° | 156.7 | 149.9 | 147.0 | 143.1 | 149.6 | 147.4 | 148.6 | 149.5 | 153.8 | 148.2 | 154.2 |
| 85° | 86.0 | 80.8 | 80.4 | 78.4 | 78.0 | 73.3 | 72.8 | 72.8 | 69.9 | 70.7 | 70.3 |
| 87.5° | 33.0 | 31.0 | 29.2 | 28.0 | 27.6 | 26.3 | 25.0 | 22.9 | 20.3 | 18.2 | 16.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)