

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: P140870

Luminaire Tested: **MEM-E02-LED-E-U-RW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P140870  
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-E02-LED-E-U-RW  
Description: EPIC MODERN MEDIUM DECORATIVE LED LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE  
Light Source: (42) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5914.6 lumens  
Efficiency: N/A  
Efficacy: 113.5 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')  
IES Classification: Type V - Medium - Full Cutoff  
BUG Rating: B3 - U0 - G1

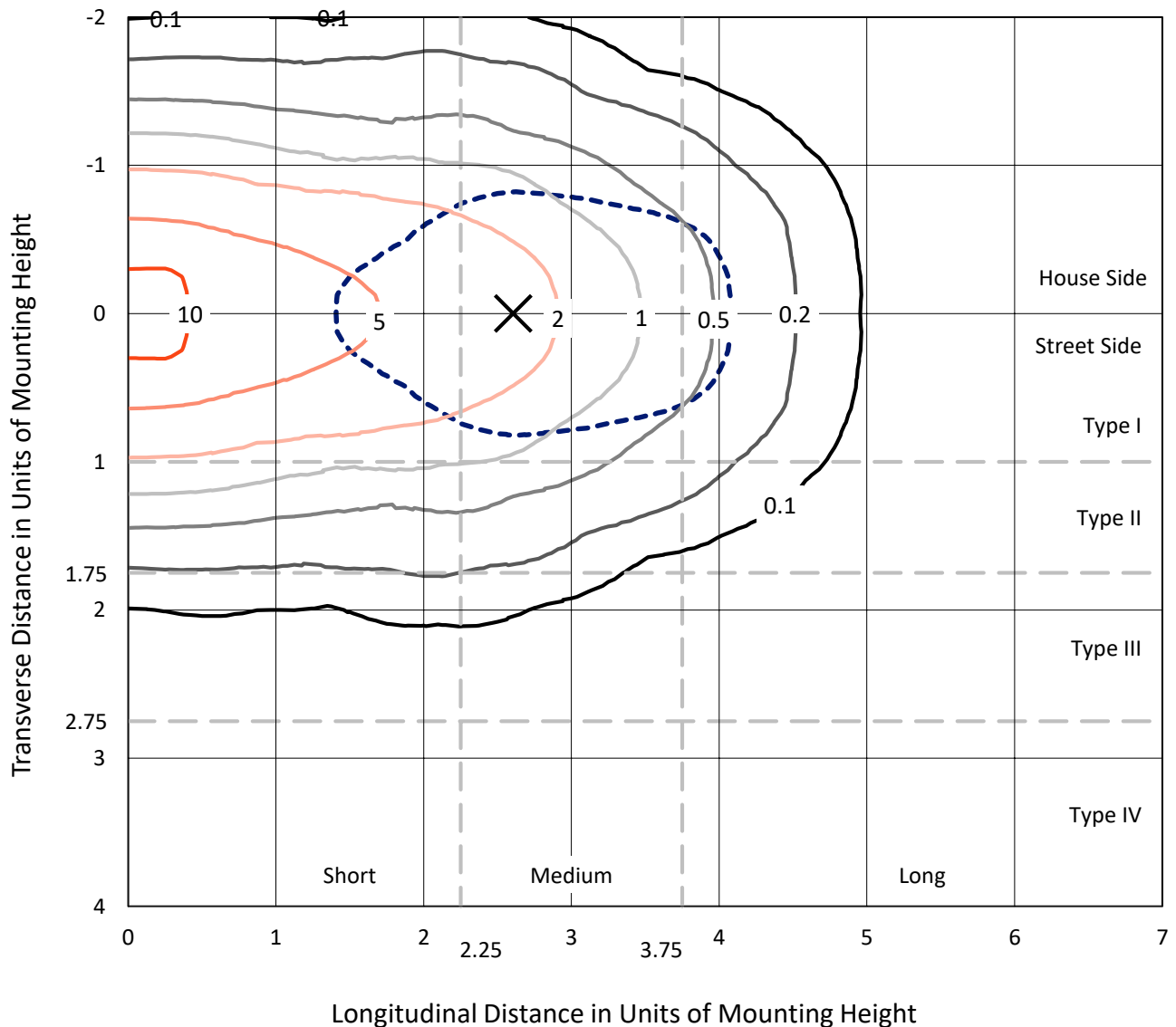
Input Watts (W): 52.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

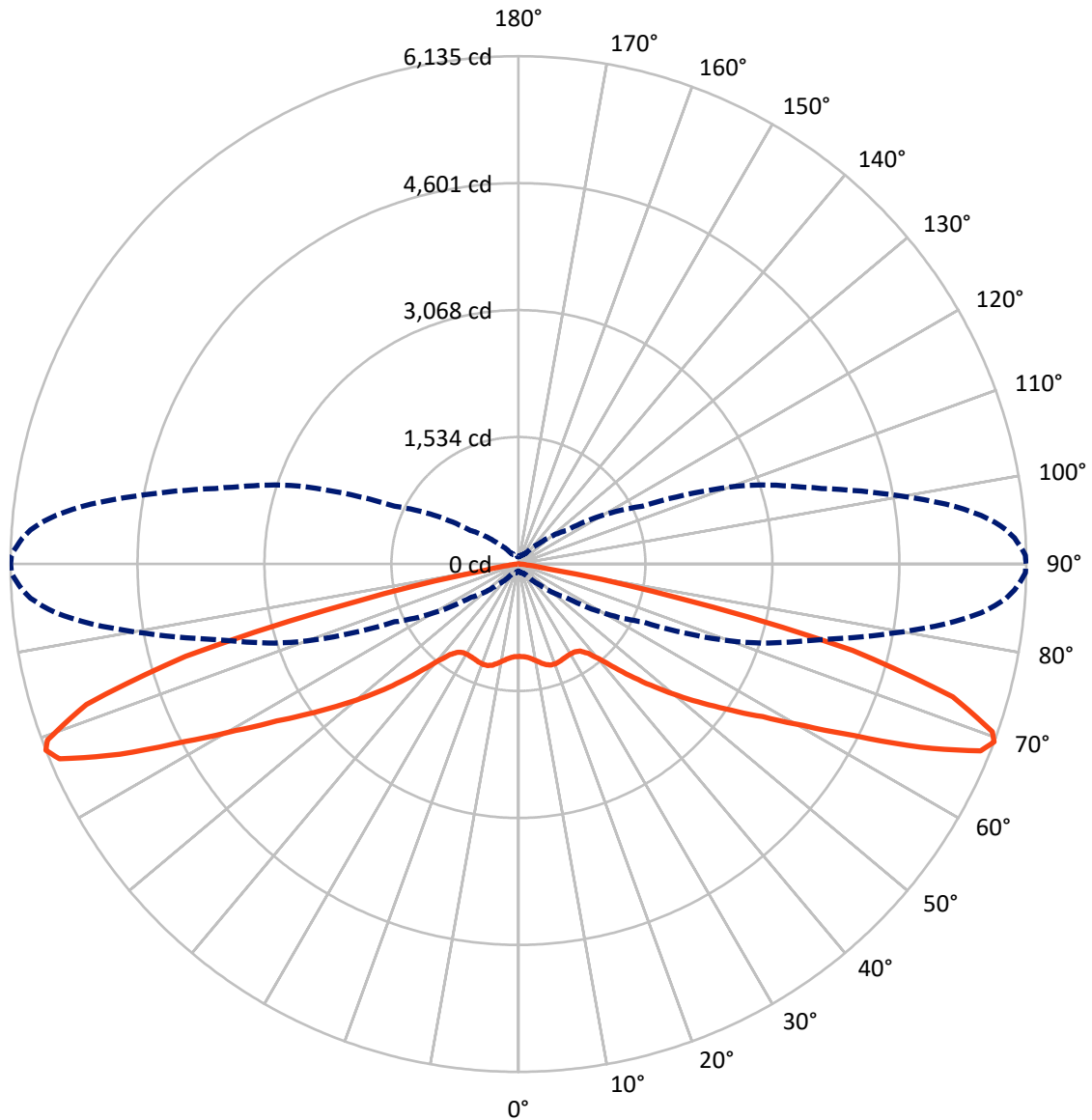


Based on 10 foot mounting height. Maximum calculated value = 11.4 fc  
 Type V - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



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

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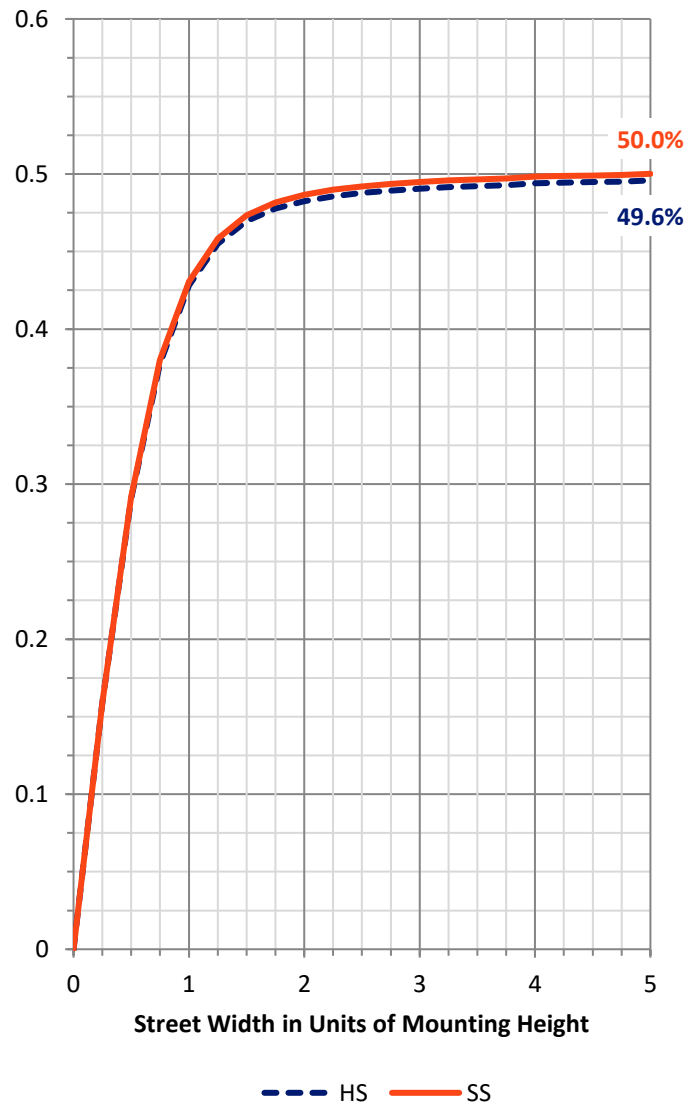
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2957.3   | 0.0    | 2957.3 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2957.3   | 0.0    | 2957.3 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 5914.6   | 0.0    | 5914.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 109.3  | 1.8       |
| 10°-20°   | 343.7  | 5.8       |
| 20°-30°   | 555.8  | 9.4       |
| 30°-40°   | 694.3  | 11.7      |
| 40°-50°   | 868.4  | 14.7      |
| 50°-60°   | 1070.1 | 18.1      |
| 60°-70°   | 1324.8 | 22.4      |
| 70°-80°   | 865.9  | 14.6      |
| 80°-90°   | 82.3   | 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°    | 5914.6 | 100.0     |
| 0°-180°   | 5914.6 | 100.0     |



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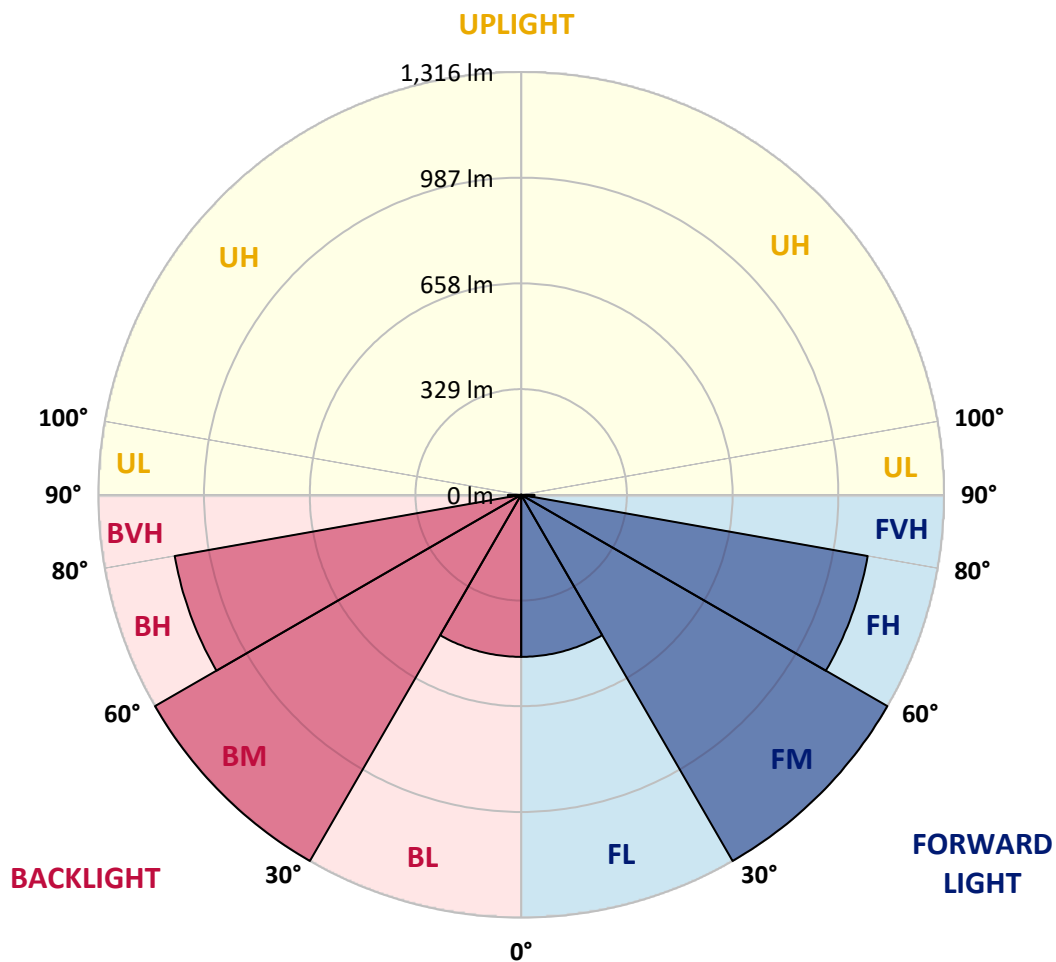
CATALOG NUMBER: MEM-E02-LED-E-U-RW

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 504.4  | 8.5       |                         |      |         |
| FM   | (30°-60°)   | 1316.4 | 22.3      |                         |      |         |
| FH   | (60°-80°)   | 1095.3 | 18.5      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 41.1   | 0.7       |                         |      | G1/100  |
| BL   | (0°-30°)    | 504.4  | 8.5       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1316.4 | 22.3      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1095.3 | 18.5      | B3/2500                 |      | G1/1800 |
| BVH  | (80°-90°)   | 41.1   | 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°    | 1116.7 | 1116.7 | 1116.7 | 1116.7 | 1116.7 | 1116.7 | 1116.7 | 1116.7 | 1116.7 | 1116.7 | 1116.7 |
| 2.5°  | 1124.0 | 1124.6 | 1122.6 | 1123.3 | 1124.0 | 1123.3 | 1122.4 | 1122.4 | 1122.0 | 1121.7 | 1121.3 |
| 5°    | 1131.4 | 1131.7 | 1130.6 | 1132.4 | 1132.6 | 1133.7 | 1133.7 | 1134.0 | 1133.8 | 1133.6 | 1133.4 |
| 7.5°  | 1141.7 | 1143.0 | 1142.0 | 1144.4 | 1146.6 | 1150.0 | 1151.6 | 1155.6 | 1155.6 | 1155.5 | 1155.4 |
| 10°   | 1151.4 | 1152.7 | 1152.6 | 1158.0 | 1163.7 | 1170.0 | 1176.7 | 1183.0 | 1183.4 | 1183.8 | 1184.2 |
| 12.5° | 1158.6 | 1159.6 | 1161.4 | 1171.0 | 1183.6 | 1194.4 | 1206.0 | 1216.0 | 1216.4 | 1216.8 | 1217.2 |
| 15°   | 1155.6 | 1158.0 | 1165.6 | 1181.0 | 1203.4 | 1221.0 | 1235.3 | 1247.4 | 1248.2 | 1249.0 | 1249.8 |
| 17.5° | 1145.4 | 1149.0 | 1160.0 | 1186.0 | 1220.4 | 1248.6 | 1265.6 | 1269.0 | 1269.5 | 1270.1 | 1270.6 |
| 20°   | 1123.0 | 1128.3 | 1145.7 | 1182.6 | 1233.3 | 1271.6 | 1288.6 | 1282.6 | 1282.1 | 1281.6 | 1281.1 |
| 22.5° | 1085.6 | 1092.7 | 1114.4 | 1167.0 | 1234.3 | 1288.4 | 1305.0 | 1288.4 | 1286.5 | 1284.6 | 1282.7 |
| 25°   | 1035.6 | 1041.3 | 1066.0 | 1128.4 | 1219.0 | 1291.3 | 1315.4 | 1292.0 | 1289.0 | 1286.0 | 1283.0 |
| 27.5° | 975.0  | 979.6  | 1010.3 | 1076.6 | 1181.0 | 1276.0 | 1322.0 | 1298.4 | 1294.5 | 1290.6 | 1286.7 |
| 30°   | 906.7  | 910.7  | 944.4  | 1015.0 | 1127.6 | 1242.4 | 1321.4 | 1312.7 | 1308.1 | 1303.5 | 1298.9 |
| 32.5° | 838.6  | 840.4  | 870.4  | 948.0  | 1068.4 | 1192.7 | 1310.3 | 1334.7 | 1330.2 | 1325.7 | 1321.3 |
| 35°   | 764.0  | 769.3  | 801.3  | 886.0  | 1001.3 | 1138.0 | 1295.7 | 1365.4 | 1362.8 | 1360.3 | 1357.7 |
| 37.5° | 704.0  | 705.7  | 740.0  | 828.0  | 947.0  | 1088.4 | 1277.0 | 1404.6 | 1406.5 | 1408.3 | 1410.1 |
| 40°   | 644.0  | 644.0  | 678.0  | 769.3  | 892.7  | 1043.6 | 1261.4 | 1453.0 | 1462.1 | 1471.3 | 1480.4 |
| 42.5° | 578.4  | 583.0  | 616.4  | 707.3  | 840.0  | 1005.6 | 1253.3 | 1511.0 | 1528.2 | 1545.4 | 1562.6 |
| 45°   | 517.0  | 520.0  | 554.0  | 643.0  | 774.4  | 962.4  | 1251.0 | 1575.6 | 1601.8 | 1627.9 | 1654.1 |
| 47.5° | 456.7  | 461.0  | 493.4  | 575.0  | 702.6  | 904.6  | 1248.0 | 1649.4 | 1682.7 | 1716.1 | 1749.5 |
| 50°   | 400.6  | 403.4  | 439.3  | 513.7  | 632.0  | 830.0  | 1228.4 | 1731.6 | 1772.4 | 1813.2 | 1854.0 |
| 52.5° | 341.4  | 346.7  | 376.3  | 453.0  | 560.6  | 749.6  | 1176.6 | 1821.4 | 1870.7 | 1920.0 | 1969.3 |
| 55°   | 279.4  | 278.0  | 313.6  | 385.6  | 498.4  | 672.6  | 1081.4 | 1899.0 | 1958.5 | 2018.1 | 2077.6 |
| 57.5° | 204.6  | 209.0  | 241.6  | 314.6  | 426.0  | 608.0  | 969.0  | 1939.4 | 2013.6 | 2087.9 | 2162.1 |
| 60°   | 146.7  | 152.6  | 181.0  | 238.6  | 354.0  | 544.6  | 854.4  | 1911.3 | 2009.7 | 2108.1 | 2206.5 |
| 62.5° | 114.6  | 117.3  | 141.6  | 179.0  | 276.0  | 478.4  | 777.3  | 1838.7 | 1974.4 | 2110.0 | 2245.7 |
| 65°   | 100.0  | 103.0  | 124.7  | 144.0  | 209.6  | 415.3  | 731.0  | 1780.6 | 1959.7 | 2138.8 | 2317.9 |
| 67.5° | 91.0   | 94.6   | 113.4  | 126.6  | 172.0  | 361.6  | 720.0  | 1733.3 | 1943.4 | 2153.5 | 2363.5 |
| 69°   | 86.6   | 90.4   | 107.6  | 120.0  | 159.6  | 344.7  | 707.3  | 1653.6 | 1866.8 | 2080.0 | 2293.2 |
| 70°   | 84.7   | 87.6   | 104.3  | 116.0  | 155.7  | 334.6  | 678.7  | 1562.7 | 1768.8 | 1974.8 | 2180.9 |
| 72.5° | 78.0   | 79.6   | 95.0   | 106.4  | 147.4  | 280.0  | 537.7  | 1169.7 | 1341.9 | 1514.1 | 1686.3 |
| 75°   | 69.0   | 71.6   | 85.6   | 97.4   | 118.3  | 179.4  | 352.7  | 707.0  | 834.5  | 962.1  | 1089.6 |
| 77.5° | 59.4   | 61.7   | 73.7   | 93.0   | 91.0   | 108.6  | 202.6  | 395.0  | 463.9  | 532.9  | 601.8  |
| 80°   | 51.4   | 53.6   | 64.6   | 86.3   | 74.0   | 80.3   | 136.7  | 257.7  | 283.9  | 310.1  | 336.3  |
| 82.5° | 40.4   | 42.0   | 54.4   | 70.4   | 57.4   | 59.6   | 102.3  | 225.0  | 240.8  | 256.6  | 272.4  |
| 85°   | 25.6   | 26.6   | 39.6   | 48.0   | 40.0   | 35.4   | 64.3   | 165.0  | 177.5  | 189.9  | 202.4  |
| 87.5° | 9.0    | 12.7   | 17.6   | 16.6   | 16.6   | 12.7   | 22.6   | 61.0   | 65.9   | 70.7   | 75.6   |
| 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-E02-LED-E-U-RW

**CANDELA DISTRIBUTION (continued):**

|       | 69°    | 70°    | 71°    | 72°    | 73°    | 74°    | 75°    | 76°    | 77°    | 78°    | 79°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1116.7 | 1116.7 | 1116.7 | 1116.7 | 1116.7 | 1116.7 | 1116.7 | 1116.7 | 1116.7 | 1116.7 | 1116.7 |
| 2.5°  | 1121.0 | 1120.6 | 1121.0 | 1121.0 | 1120.6 | 1120.3 | 1120.4 | 1120.0 | 1119.4 | 1119.4 | 1119.0 |
| 5°    | 1133.2 | 1133.0 | 1133.6 | 1133.4 | 1133.7 | 1133.4 | 1133.4 | 1133.0 | 1133.4 | 1132.0 | 1131.6 |
| 7.5°  | 1155.4 | 1155.3 | 1155.4 | 1156.4 | 1155.6 | 1155.4 | 1156.0 | 1156.0 | 1156.0 | 1155.4 | 1155.4 |
| 10°   | 1184.6 | 1185.0 | 1185.7 | 1186.4 | 1186.4 | 1186.4 | 1187.6 | 1186.6 | 1188.6 | 1186.6 | 1187.6 |
| 12.5° | 1217.6 | 1218.0 | 1219.6 | 1220.4 | 1221.0 | 1221.0 | 1221.0 | 1223.0 | 1224.4 | 1224.0 | 1224.4 |
| 15°   | 1250.6 | 1251.4 | 1251.6 | 1252.6 | 1252.7 | 1253.0 | 1254.3 | 1256.7 | 1256.0 | 1257.4 | 1257.3 |
| 17.5° | 1271.1 | 1271.6 | 1271.3 | 1271.4 | 1272.0 | 1273.0 | 1274.4 | 1275.6 | 1275.3 | 1276.4 | 1277.0 |
| 20°   | 1280.5 | 1280.0 | 1279.0 | 1278.3 | 1278.0 | 1278.7 | 1278.7 | 1279.0 | 1279.6 | 1279.7 | 1279.7 |
| 22.5° | 1280.9 | 1279.0 | 1276.7 | 1275.4 | 1273.6 | 1272.6 | 1273.3 | 1272.6 | 1272.7 | 1272.6 | 1272.0 |
| 25°   | 1280.0 | 1277.0 | 1273.4 | 1270.6 | 1268.0 | 1266.4 | 1264.6 | 1264.0 | 1262.6 | 1262.6 | 1262.6 |
| 27.5° | 1282.9 | 1279.0 | 1275.4 | 1270.4 | 1266.6 | 1264.6 | 1262.4 | 1260.0 | 1258.6 | 1257.4 | 1257.3 |
| 30°   | 1294.3 | 1289.7 | 1285.0 | 1279.0 | 1274.0 | 1272.4 | 1268.0 | 1265.6 | 1262.3 | 1260.7 | 1260.0 |
| 32.5° | 1316.8 | 1312.3 | 1306.0 | 1299.3 | 1295.4 | 1290.4 | 1286.6 | 1281.6 | 1278.0 | 1275.6 | 1272.6 |
| 35°   | 1355.2 | 1352.6 | 1347.4 | 1343.0 | 1337.0 | 1331.4 | 1324.0 | 1321.4 | 1313.6 | 1312.4 | 1308.6 |
| 37.5° | 1411.9 | 1413.7 | 1412.6 | 1409.4 | 1405.3 | 1400.3 | 1397.4 | 1391.6 | 1388.6 | 1385.6 | 1382.4 |
| 40°   | 1489.6 | 1498.7 | 1501.6 | 1505.4 | 1506.4 | 1510.7 | 1505.7 | 1505.0 | 1501.0 | 1504.3 | 1502.4 |
| 42.5° | 1579.8 | 1597.0 | 1606.4 | 1617.3 | 1629.4 | 1640.3 | 1649.0 | 1663.6 | 1662.0 | 1673.4 | 1681.4 |
| 45°   | 1680.2 | 1706.4 | 1730.4 | 1748.6 | 1771.7 | 1797.0 | 1819.3 | 1840.0 | 1863.4 | 1876.6 | 1896.3 |
| 47.5° | 1782.9 | 1816.3 | 1850.6 | 1884.7 | 1917.4 | 1950.0 | 1990.0 | 2026.4 | 2061.6 | 2085.6 | 2116.0 |
| 50°   | 1894.8 | 1935.6 | 1977.0 | 2018.7 | 2065.0 | 2116.4 | 2161.0 | 2208.4 | 2257.0 | 2306.4 | 2341.0 |
| 52.5° | 2018.7 | 2068.0 | 2113.0 | 2157.0 | 2214.3 | 2268.7 | 2326.7 | 2386.0 | 2459.6 | 2513.4 | 2561.0 |
| 55°   | 2137.2 | 2196.7 | 2246.0 | 2298.6 | 2358.7 | 2419.0 | 2490.0 | 2564.4 | 2642.4 | 2719.6 | 2789.6 |
| 57.5° | 2236.4 | 2310.6 | 2369.4 | 2421.6 | 2486.0 | 2555.6 | 2632.0 | 2724.0 | 2813.0 | 2909.0 | 2999.4 |
| 60°   | 2304.9 | 2403.4 | 2474.0 | 2537.0 | 2611.7 | 2689.0 | 2788.6 | 2897.4 | 3014.4 | 3133.6 | 3249.7 |
| 62.5° | 2381.3 | 2517.0 | 2613.6 | 2703.7 | 2792.0 | 2878.0 | 2990.3 | 3125.4 | 3284.0 | 3428.4 | 3582.0 |
| 65°   | 2496.9 | 2676.0 | 2818.6 | 2933.4 | 3058.7 | 3184.0 | 3315.0 | 3472.6 | 3653.0 | 3863.6 | 4042.7 |
| 67.5° | 2573.6 | 2783.7 | 2965.0 | 3129.3 | 3275.7 | 3428.0 | 3593.4 | 3782.0 | 3999.6 | 4214.6 | 4437.4 |
| 69°   | 2506.4 | 2719.6 | 2911.4 | 3092.4 | 3252.6 | 3416.7 | 3584.6 | 3774.6 | 3997.0 | 4234.7 | 4469.7 |
| 70°   | 2386.9 | 2593.0 | 2791.0 | 2981.6 | 3138.3 | 3309.6 | 3475.0 | 3656.0 | 3881.4 | 4119.0 | 4374.6 |
| 72.5° | 1858.5 | 2030.7 | 2234.0 | 2418.0 | 2605.0 | 2761.4 | 2910.6 | 3092.4 | 3319.6 | 3546.0 | 3795.0 |
| 75°   | 1217.1 | 1344.6 | 1530.6 | 1682.0 | 1843.6 | 1990.3 | 2098.6 | 2279.0 | 2417.0 | 2630.0 | 2861.4 |
| 77.5° | 670.7  | 739.6  | 836.4  | 959.6  | 1029.4 | 1112.0 | 1220.4 | 1286.0 | 1384.0 | 1533.0 | 1602.4 |
| 80°   | 362.5  | 388.6  | 429.4  | 455.0  | 475.6  | 455.4  | 444.3  | 464.0  | 455.7  | 453.4  | 431.0  |
| 82.5° | 288.2  | 304.0  | 325.0  | 340.0  | 330.4  | 286.7  | 240.4  | 206.7  | 185.0  | 155.6  | 133.3  |
| 85°   | 214.9  | 227.4  | 235.4  | 245.3  | 243.6  | 220.4  | 176.4  | 136.3  | 107.0  | 85.4   | 74.3   |
| 87.5° | 80.5   | 85.4   | 87.7   | 106.6  | 98.0   | 93.0   | 72.4   | 52.6   | 40.4   | 29.4   | 23.6   |
| 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-E02-LED-E-U-RW

**CANDELA DISTRIBUTION (continued):**

|       | 80°    | 81°    | 82°    | 83°    | 84°    | 85°    | 86°    | 87°    | 88°    | 89°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1116.7 | 1116.7 | 1116.7 | 1116.7 | 1116.7 | 1116.7 | 1116.7 | 1116.7 | 1116.7 | 1116.7 | 1116.7 |
| 2.5°  | 1119.7 | 1119.4 | 1119.3 | 1119.3 | 1119.6 | 1119.0 | 1118.3 | 1119.0 | 1118.6 | 1118.7 | 1118.7 |
| 5°    | 1133.0 | 1132.6 | 1132.7 | 1133.0 | 1132.7 | 1133.0 | 1132.7 | 1131.4 | 1132.0 | 1132.4 | 1132.7 |
| 7.5°  | 1156.0 | 1155.6 | 1155.7 | 1157.4 | 1157.0 | 1156.6 | 1156.4 | 1157.0 | 1156.0 | 1156.0 | 1156.7 |
| 10°   | 1187.6 | 1189.0 | 1188.7 | 1189.7 | 1189.4 | 1188.6 | 1188.0 | 1188.6 | 1189.6 | 1190.0 | 1188.7 |
| 12.5° | 1226.4 | 1226.6 | 1226.0 | 1227.7 | 1226.6 | 1229.0 | 1226.3 | 1227.6 | 1229.0 | 1227.0 | 1228.0 |
| 15°   | 1257.6 | 1257.6 | 1259.0 | 1259.4 | 1259.0 | 1259.6 | 1261.6 | 1260.6 | 1259.7 | 1261.4 | 1262.0 |
| 17.5° | 1276.7 | 1277.6 | 1278.0 | 1278.4 | 1279.0 | 1279.6 | 1280.0 | 1279.6 | 1280.0 | 1280.7 | 1282.0 |
| 20°   | 1281.0 | 1280.6 | 1281.4 | 1281.6 | 1282.6 | 1282.7 | 1283.4 | 1283.0 | 1284.0 | 1284.3 | 1284.7 |
| 22.5° | 1273.4 | 1273.6 | 1274.0 | 1275.0 | 1274.6 | 1275.4 | 1275.7 | 1276.6 | 1276.4 | 1277.0 | 1277.3 |
| 25°   | 1263.0 | 1263.7 | 1264.0 | 1263.7 | 1263.7 | 1264.0 | 1264.3 | 1264.0 | 1265.3 | 1266.0 | 1266.0 |
| 27.5° | 1256.4 | 1256.3 | 1257.4 | 1257.0 | 1256.4 | 1257.0 | 1256.6 | 1256.6 | 1256.6 | 1257.0 | 1258.0 |
| 30°   | 1259.0 | 1258.0 | 1257.4 | 1257.4 | 1257.0 | 1256.4 | 1255.6 | 1254.6 | 1254.7 | 1255.0 | 1254.7 |
| 32.5° | 1273.4 | 1271.4 | 1270.4 | 1269.3 | 1268.6 | 1267.0 | 1265.0 | 1264.4 | 1262.7 | 1262.6 | 1262.0 |
| 35°   | 1310.0 | 1307.6 | 1307.6 | 1304.0 | 1302.0 | 1301.0 | 1299.4 | 1294.4 | 1294.6 | 1292.7 | 1292.0 |
| 37.5° | 1383.0 | 1379.0 | 1377.3 | 1380.6 | 1374.3 | 1377.0 | 1371.3 | 1369.0 | 1370.4 | 1366.6 | 1368.7 |
| 40°   | 1505.7 | 1512.0 | 1509.4 | 1513.0 | 1514.6 | 1515.4 | 1515.3 | 1509.6 | 1515.4 | 1506.3 | 1509.3 |
| 42.5° | 1682.6 | 1699.3 | 1705.4 | 1707.4 | 1717.7 | 1715.0 | 1712.0 | 1711.6 | 1711.3 | 1715.7 | 1713.3 |
| 45°   | 1905.4 | 1907.6 | 1936.0 | 1941.4 | 1947.0 | 1953.4 | 1951.6 | 1959.0 | 1964.4 | 1957.0 | 1958.0 |
| 47.5° | 2133.0 | 2156.6 | 2177.3 | 2188.6 | 2201.0 | 2194.6 | 2199.6 | 2202.6 | 2221.7 | 2219.6 | 2218.0 |
| 50°   | 2383.6 | 2423.4 | 2434.4 | 2446.7 | 2456.4 | 2475.6 | 2474.0 | 2485.7 | 2483.7 | 2499.4 | 2501.3 |
| 52.5° | 2621.4 | 2665.0 | 2709.3 | 2728.7 | 2743.4 | 2765.6 | 2774.4 | 2787.0 | 2782.3 | 2781.0 | 2792.7 |
| 55°   | 2857.7 | 2930.6 | 2981.4 | 3031.0 | 3058.7 | 3088.4 | 3101.0 | 3119.0 | 3127.0 | 3130.7 | 3116.0 |
| 57.5° | 3092.0 | 3179.6 | 3265.4 | 3326.6 | 3369.3 | 3414.0 | 3437.6 | 3457.4 | 3480.4 | 3488.0 | 3480.7 |
| 60°   | 3366.0 | 3494.4 | 3606.6 | 3688.6 | 3767.3 | 3816.0 | 3867.0 | 3904.4 | 3911.4 | 3943.0 | 3963.3 |
| 62.5° | 3731.0 | 3887.4 | 4029.6 | 4149.0 | 4271.0 | 4362.0 | 4454.0 | 4490.6 | 4527.0 | 4551.6 | 4566.7 |
| 65°   | 4228.6 | 4434.6 | 4631.4 | 4801.0 | 4950.7 | 5102.0 | 5209.3 | 5265.7 | 5338.0 | 5352.4 | 5336.7 |
| 67.5° | 4665.0 | 4908.0 | 5152.4 | 5368.3 | 5530.0 | 5687.0 | 5814.3 | 5907.6 | 5975.3 | 6008.6 | 6022.7 |
| 69°   | 4713.0 | 4960.0 | 5209.6 | 5425.0 | 5620.6 | 5777.3 | 5907.7 | 6000.4 | 6067.6 | 6125.4 | 6135.3 |
| 70°   | 4614.7 | 4892.0 | 5134.6 | 5352.0 | 5553.7 | 5713.4 | 5830.0 | 5936.0 | 6012.7 | 6057.0 | 6072.7 |
| 72.5° | 4051.0 | 4300.3 | 4545.3 | 4795.7 | 4968.7 | 5160.4 | 5256.4 | 5341.3 | 5443.4 | 5501.3 | 5488.7 |
| 75°   | 3070.0 | 3285.7 | 3499.4 | 3686.6 | 3820.0 | 3890.6 | 4003.0 | 4085.4 | 4070.3 | 4168.0 | 4170.7 |
| 77.5° | 1731.6 | 1759.7 | 1904.7 | 1885.4 | 1949.4 | 1951.0 | 1967.7 | 1996.6 | 1941.0 | 2055.4 | 1973.3 |
| 80°   | 420.0  | 414.4  | 444.4  | 409.0  | 406.0  | 403.0  | 393.0  | 412.6  | 415.4  | 395.0  | 398.7  |
| 82.5° | 123.3  | 118.0  | 115.7  | 112.6  | 117.6  | 116.0  | 117.0  | 117.6  | 121.0  | 116.7  | 121.3  |
| 85°   | 67.6   | 63.7   | 63.4   | 61.6   | 61.4   | 57.7   | 57.4   | 57.3   | 55.0   | 55.6   | 55.3   |
| 87.5° | 26.0   | 24.4   | 23.0   | 22.0   | 21.6   | 20.6   | 19.6   | 18.0   | 16.0   | 14.4   | 13.3   |
| 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)