

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: P140897

Luminaire Tested: **MEM-F04-LED-E-U-RW-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P140897
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-F04-LED-E-U-RW-7060
Description: EPIC MODERN MEDIUM DECORATIVE LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (28) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10020.3 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B3 - U0 - G2

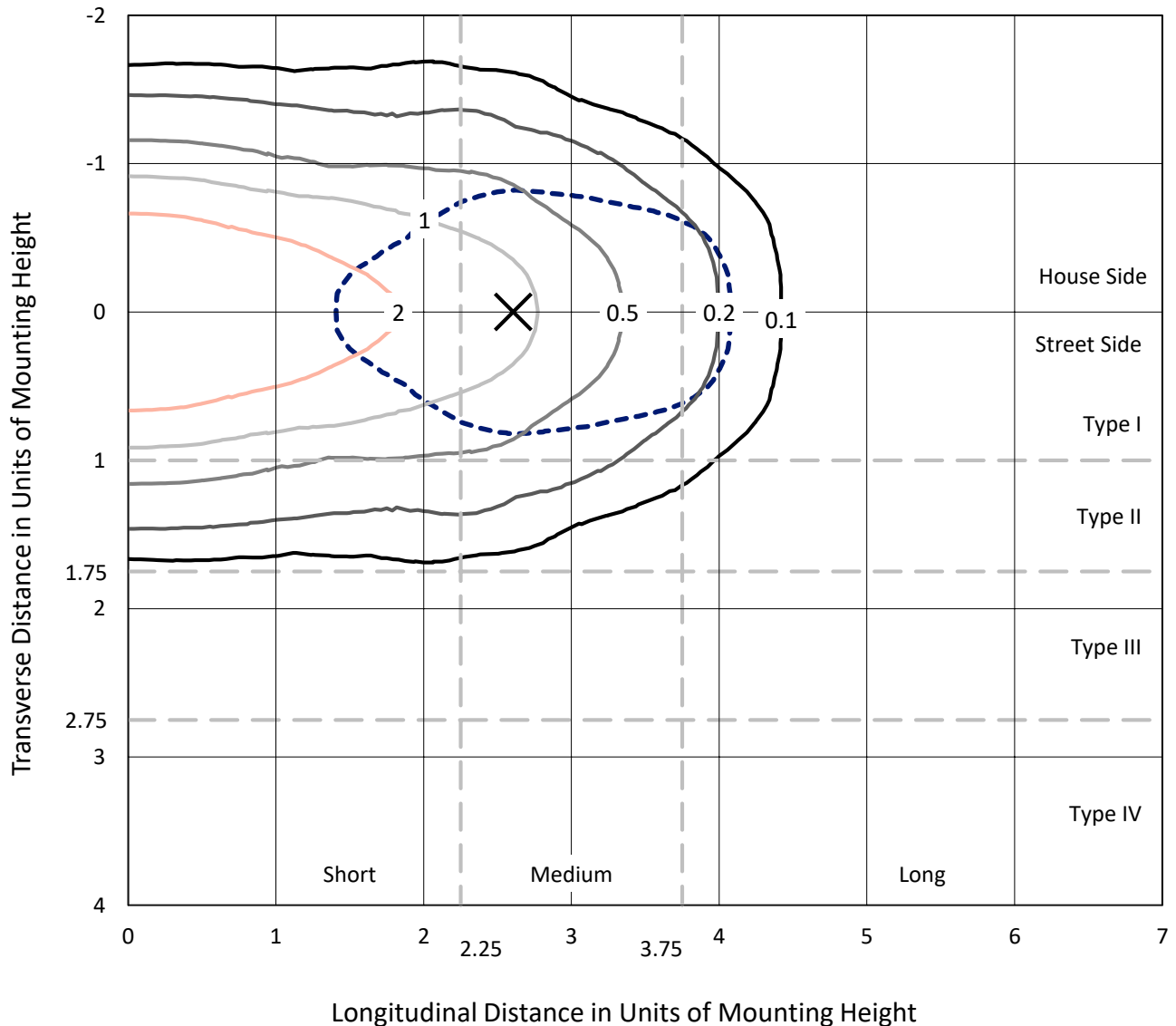
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

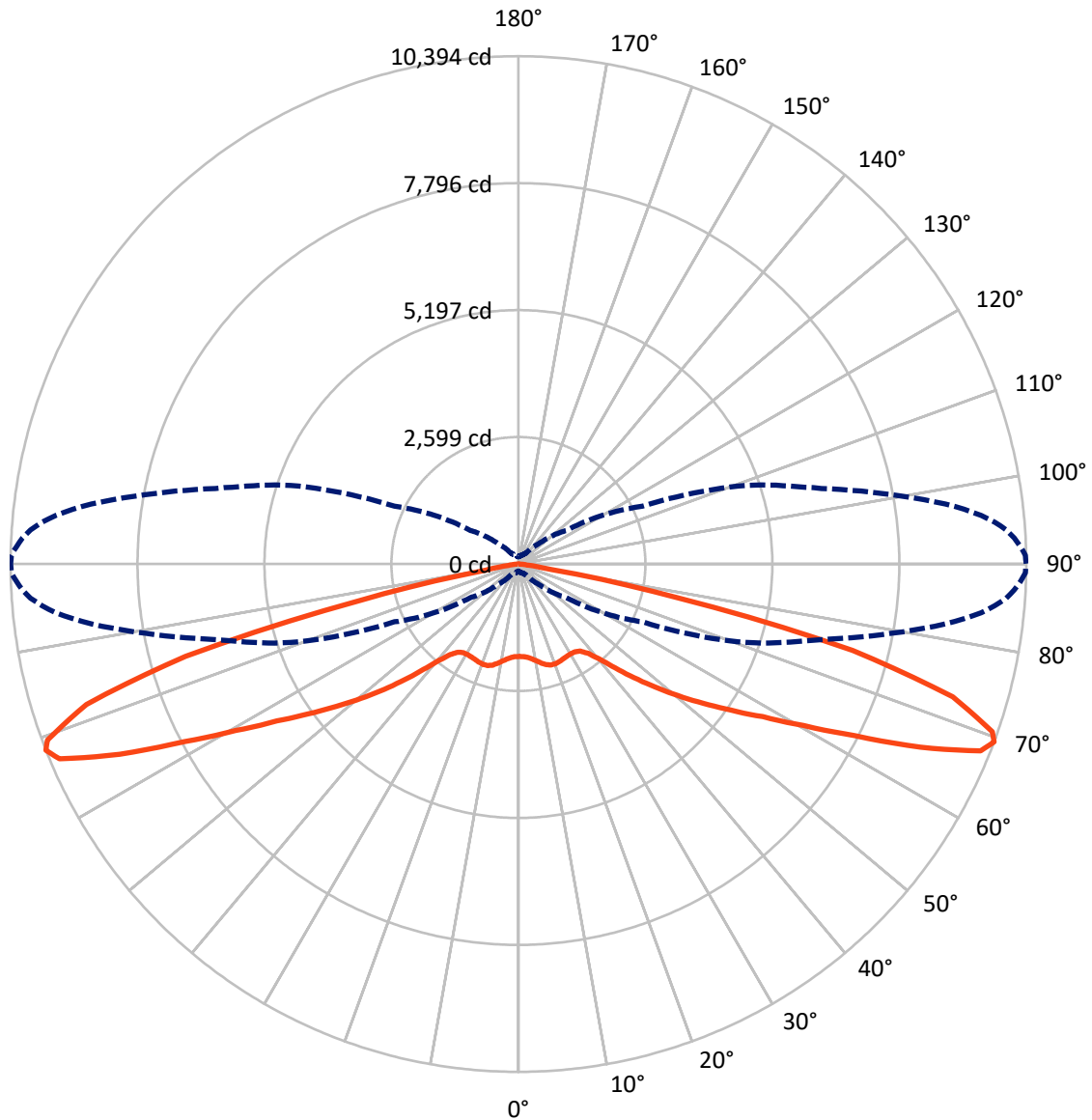
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.8 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 | 5010.2 | 0.0 | 5010.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 5010.2 | 0.0 | 5010.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 10020.3 | 0.0 | 10020.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 185.2 | 1.8 |
| 10°-20° | 582.3 | 5.8 |
| 20°-30° | 941.7 | 9.4 |
| 30°-40° | 1176.2 | 11.7 |
| 40°-50° | 1471.2 | 14.7 |
| 50°-60° | 1812.9 | 18.1 |
| 60°-70° | 2244.4 | 22.4 |
| 70°-80° | 1466.9 | 14.6 |
| 80°-90° | 139.4 | 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° | 10020.3 | 100.0 |
| 0°-180° | 10020.3 | 100.0 |



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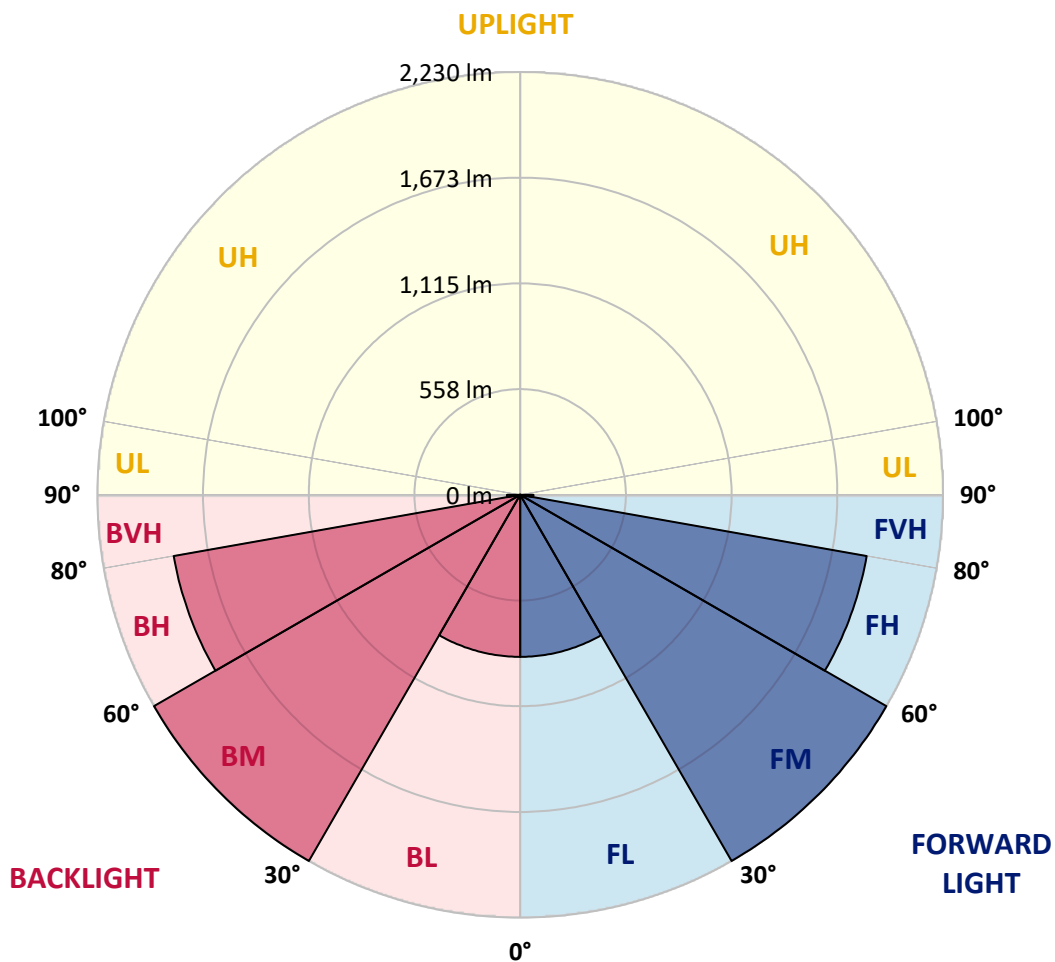
CATALOG NUMBER: MEM-F04-LED-E-U-RW-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 854.6 | 8.5 | | | |
| FM | (30°-60°) | 2230.2 | 22.3 | | | |
| FH | (60°-80°) | 1855.7 | 18.5 | | | G2/5000 |
| FVH | (80°-90°) | 69.7 | 0.7 | | | G1/100 |
| BL | (0°-30°) | 854.6 | 8.5 | B2/1000 | | |
| BM | (30°-60°) | 2230.2 | 22.3 | B2/2500 | | |
| BH | (60°-80°) | 1855.7 | 18.5 | B3/2500 | | G2/5000 |
| BVH | (80°-90°) | 69.7 | 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-G2

Type V Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 67° | 68° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1891.8 | 1891.8 | 1891.8 | 1891.8 | 1891.8 | 1891.8 | 1891.8 | 1891.8 | 1891.8 | 1891.8 | 1891.8 |
| 2.5° | 1904.2 | 1905.4 | 1902.0 | 1903.1 | 1904.2 | 1903.1 | 1901.4 | 1901.4 | 1900.8 | 1900.3 | 1899.7 |
| 5° | 1916.6 | 1917.2 | 1915.5 | 1918.4 | 1918.9 | 1920.6 | 1920.6 | 1921.2 | 1920.8 | 1920.5 | 1920.2 |
| 7.5° | 1934.2 | 1936.4 | 1934.7 | 1938.6 | 1942.6 | 1948.2 | 1951.1 | 1957.8 | 1957.7 | 1957.6 | 1957.5 |
| 10° | 1950.5 | 1952.8 | 1952.8 | 1961.8 | 1971.4 | 1982.2 | 1993.4 | 2004.2 | 2004.9 | 2005.5 | 2006.2 |
| 12.5° | 1963.0 | 1964.6 | 1967.5 | 1983.8 | 2005.4 | 2023.4 | 2043.2 | 2060.1 | 2060.8 | 2061.5 | 2062.1 |
| 15° | 1957.9 | 1961.8 | 1974.8 | 2000.8 | 2038.6 | 2068.6 | 2092.8 | 2113.2 | 2114.5 | 2115.9 | 2117.2 |
| 17.5° | 1940.4 | 1946.6 | 1965.2 | 2009.2 | 2067.4 | 2115.4 | 2144.2 | 2149.9 | 2150.8 | 2151.7 | 2152.6 |
| 20° | 1902.5 | 1911.6 | 1941.0 | 2003.6 | 2089.4 | 2154.4 | 2183.2 | 2173.0 | 2172.1 | 2171.2 | 2170.3 |
| 22.5° | 1839.3 | 1851.2 | 1887.8 | 1977.1 | 2091.2 | 2182.6 | 2210.8 | 2182.6 | 2179.5 | 2176.3 | 2173.1 |
| 25° | 1754.6 | 1764.2 | 1806.0 | 1911.6 | 2065.1 | 2187.8 | 2228.4 | 2188.8 | 2183.8 | 2178.7 | 2173.6 |
| 27.5° | 1651.8 | 1659.7 | 1711.6 | 1824.0 | 2000.8 | 2161.8 | 2239.6 | 2199.6 | 2193.0 | 2186.5 | 2179.9 |
| 30° | 1536.0 | 1542.8 | 1599.8 | 1719.6 | 1910.4 | 2104.7 | 2238.6 | 2223.9 | 2216.1 | 2208.3 | 2200.5 |
| 32.5° | 1420.8 | 1423.6 | 1474.4 | 1606.0 | 1809.9 | 2020.6 | 2219.9 | 2261.1 | 2253.6 | 2246.0 | 2238.4 |
| 35° | 1294.4 | 1303.4 | 1357.6 | 1501.0 | 1696.4 | 1928.0 | 2195.1 | 2313.1 | 2308.8 | 2304.5 | 2300.2 |
| 37.5° | 1192.7 | 1195.5 | 1253.6 | 1402.8 | 1604.4 | 1843.8 | 2163.4 | 2379.7 | 2382.8 | 2385.8 | 2388.8 |
| 40° | 1091.0 | 1091.0 | 1148.6 | 1303.4 | 1512.3 | 1768.1 | 2136.8 | 2461.6 | 2477.1 | 2492.5 | 2508.0 |
| 42.5° | 979.8 | 987.6 | 1044.2 | 1198.3 | 1423.1 | 1703.8 | 2123.4 | 2559.9 | 2589.0 | 2618.2 | 2647.3 |
| 45° | 875.8 | 881.0 | 938.6 | 1089.4 | 1311.8 | 1630.4 | 2119.4 | 2669.4 | 2713.7 | 2757.9 | 2802.2 |
| 47.5° | 773.7 | 781.0 | 835.8 | 974.2 | 1190.4 | 1532.6 | 2114.3 | 2794.2 | 2850.8 | 2907.4 | 2964.0 |
| 50° | 678.8 | 683.4 | 744.3 | 870.2 | 1070.7 | 1406.2 | 2081.0 | 2933.7 | 3002.8 | 3072.0 | 3141.1 |
| 52.5° | 578.3 | 587.3 | 637.6 | 767.4 | 949.9 | 1270.0 | 1993.5 | 3085.6 | 3169.2 | 3252.8 | 3336.3 |
| 55° | 473.2 | 471.0 | 531.4 | 653.4 | 844.2 | 1139.6 | 1832.0 | 3217.2 | 3318.0 | 3418.9 | 3519.8 |
| 57.5° | 346.8 | 354.0 | 409.4 | 533.1 | 721.7 | 1030.0 | 1641.6 | 3285.5 | 3411.3 | 3537.2 | 3663.0 |
| 60° | 248.5 | 258.6 | 306.6 | 404.4 | 599.8 | 922.7 | 1447.4 | 3238.1 | 3404.8 | 3571.5 | 3738.2 |
| 62.5° | 194.3 | 198.8 | 240.0 | 303.2 | 467.6 | 810.4 | 1316.9 | 3115.0 | 3344.8 | 3574.7 | 3804.5 |
| 65° | 169.4 | 174.5 | 211.2 | 244.0 | 355.2 | 703.7 | 1238.4 | 3016.7 | 3320.1 | 3623.4 | 3926.8 |
| 67.5° | 154.2 | 160.4 | 192.0 | 214.6 | 291.4 | 612.8 | 1219.8 | 2936.5 | 3292.4 | 3648.3 | 4004.2 |
| 69° | 146.8 | 153.0 | 182.4 | 203.3 | 270.5 | 583.9 | 1198.3 | 2801.5 | 3162.7 | 3523.9 | 3885.1 |
| 70° | 143.4 | 148.5 | 176.8 | 196.5 | 263.8 | 567.0 | 1149.8 | 2647.4 | 2996.5 | 3345.6 | 3694.7 |
| 72.5° | 132.2 | 135.0 | 161.0 | 180.2 | 249.6 | 474.4 | 910.9 | 1981.6 | 2273.3 | 2565.1 | 2856.8 |
| 75° | 116.9 | 121.4 | 145.1 | 164.9 | 200.5 | 303.8 | 597.5 | 1197.8 | 1413.8 | 1629.9 | 1845.9 |
| 77.5° | 100.5 | 104.5 | 124.8 | 157.6 | 154.2 | 184.1 | 343.4 | 669.2 | 786.0 | 902.8 | 1019.5 |
| 80° | 86.9 | 91.0 | 109.6 | 146.2 | 125.4 | 136.1 | 231.6 | 436.6 | 480.9 | 525.3 | 569.7 |
| 82.5° | 68.4 | 71.2 | 92.0 | 119.2 | 97.2 | 101.1 | 173.4 | 381.2 | 408.0 | 434.7 | 461.5 |
| 85° | 43.4 | 45.2 | 67.2 | 81.4 | 67.8 | 59.8 | 109.0 | 279.6 | 300.7 | 321.8 | 342.9 |
| 87.5° | 15.2 | 21.5 | 30.0 | 28.2 | 28.2 | 21.5 | 38.4 | 103.4 | 111.6 | 119.8 | 128.1 |
| 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-F04-LED-E-U-RW-7060

CANDELA DISTRIBUTION (continued):

| | 69° | 70° | 71° | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1891.8 | 1891.8 | 1891.8 | 1891.8 | 1891.8 | 1891.8 | 1891.8 | 1891.8 | 1891.8 | 1891.8 | 1891.8 |
| 2.5° | 1899.1 | 1898.6 | 1899.2 | 1899.2 | 1898.6 | 1898.0 | 1898.0 | 1897.4 | 1896.4 | 1896.4 | 1895.8 |
| 5° | 1919.8 | 1919.5 | 1920.6 | 1920.0 | 1920.6 | 1920.0 | 1920.0 | 1919.4 | 1920.0 | 1917.8 | 1917.2 |
| 7.5° | 1957.4 | 1957.3 | 1957.4 | 1959.0 | 1957.9 | 1957.3 | 1958.4 | 1958.4 | 1958.4 | 1957.3 | 1957.3 |
| 10° | 2006.9 | 2007.6 | 2008.7 | 2009.8 | 2009.8 | 2009.8 | 2012.1 | 2010.4 | 2013.8 | 2010.4 | 2012.1 |
| 12.5° | 2062.8 | 2063.5 | 2066.3 | 2067.4 | 2068.6 | 2068.6 | 2068.6 | 2072.0 | 2074.2 | 2073.6 | 2074.2 |
| 15° | 2118.6 | 2120.0 | 2120.5 | 2122.2 | 2122.2 | 2122.8 | 2125.0 | 2129.0 | 2127.8 | 2130.1 | 2130.1 |
| 17.5° | 2153.5 | 2154.4 | 2153.8 | 2153.9 | 2155.0 | 2156.6 | 2158.9 | 2161.2 | 2160.6 | 2162.3 | 2163.4 |
| 20° | 2169.4 | 2168.5 | 2166.8 | 2165.7 | 2165.1 | 2166.2 | 2166.2 | 2166.8 | 2168.0 | 2168.0 | 2168.0 |
| 22.5° | 2170.0 | 2166.8 | 2162.8 | 2160.6 | 2157.8 | 2156.1 | 2157.2 | 2156.1 | 2156.1 | 2156.0 | 2155.0 |
| 25° | 2168.5 | 2163.4 | 2157.2 | 2152.7 | 2148.2 | 2145.4 | 2142.6 | 2141.4 | 2139.2 | 2139.1 | 2139.2 |
| 27.5° | 2173.4 | 2166.8 | 2160.6 | 2152.2 | 2145.9 | 2142.5 | 2138.6 | 2134.6 | 2132.4 | 2130.1 | 2130.1 |
| 30° | 2192.7 | 2184.9 | 2177.0 | 2166.8 | 2158.4 | 2155.6 | 2148.2 | 2144.2 | 2138.6 | 2135.8 | 2134.6 |
| 32.5° | 2230.9 | 2223.3 | 2212.6 | 2201.2 | 2194.5 | 2186.0 | 2179.8 | 2171.4 | 2165.1 | 2161.2 | 2156.1 |
| 35° | 2295.9 | 2291.6 | 2282.6 | 2275.2 | 2265.1 | 2255.5 | 2243.0 | 2238.6 | 2225.6 | 2223.3 | 2217.0 |
| 37.5° | 2391.9 | 2395.0 | 2393.2 | 2387.6 | 2380.9 | 2372.4 | 2367.3 | 2357.7 | 2352.6 | 2347.5 | 2341.9 |
| 40° | 2523.5 | 2539.0 | 2544.0 | 2550.3 | 2552.0 | 2559.3 | 2550.8 | 2549.7 | 2542.9 | 2548.6 | 2545.2 |
| 42.5° | 2676.4 | 2705.6 | 2721.4 | 2740.0 | 2760.3 | 2779.0 | 2793.6 | 2818.5 | 2815.7 | 2834.9 | 2848.4 |
| 45° | 2846.5 | 2890.8 | 2931.5 | 2962.5 | 3001.5 | 3044.4 | 3082.2 | 3117.2 | 3156.8 | 3179.4 | 3212.6 |
| 47.5° | 3020.6 | 3077.2 | 3135.3 | 3192.9 | 3248.2 | 3303.6 | 3371.4 | 3432.9 | 3492.8 | 3533.4 | 3584.8 |
| 50° | 3210.2 | 3279.4 | 3349.4 | 3420.0 | 3498.4 | 3585.4 | 3661.0 | 3741.2 | 3823.7 | 3907.3 | 3966.0 |
| 52.5° | 3419.9 | 3503.5 | 3579.7 | 3654.3 | 3751.4 | 3843.5 | 3941.7 | 4042.2 | 4167.0 | 4258.0 | 4338.8 |
| 55° | 3620.6 | 3721.4 | 3805.1 | 3894.2 | 3996.0 | 4098.2 | 4218.4 | 4344.4 | 4476.5 | 4607.5 | 4726.2 |
| 57.5° | 3788.8 | 3914.6 | 4014.0 | 4102.6 | 4211.6 | 4329.6 | 4459.0 | 4614.9 | 4765.6 | 4928.3 | 5081.4 |
| 60° | 3904.9 | 4071.6 | 4191.3 | 4298.0 | 4424.6 | 4555.6 | 4724.5 | 4908.5 | 5106.7 | 5308.9 | 5505.5 |
| 62.5° | 4034.3 | 4264.2 | 4427.9 | 4580.4 | 4730.0 | 4875.8 | 5066.1 | 5294.8 | 5563.6 | 5808.1 | 6068.4 |
| 65° | 4230.2 | 4533.6 | 4775.2 | 4969.5 | 5181.8 | 5394.2 | 5616.1 | 5883.2 | 6188.8 | 6545.6 | 6848.8 |
| 67.5° | 4360.1 | 4716.0 | 5023.2 | 5301.6 | 5549.5 | 5807.6 | 6087.6 | 6407.3 | 6776.0 | 7140.3 | 7517.6 |
| 69° | 4246.3 | 4607.5 | 4932.2 | 5238.8 | 5510.5 | 5788.4 | 6073.0 | 6394.8 | 6771.6 | 7174.2 | 7572.3 |
| 70° | 4043.8 | 4392.9 | 4728.4 | 5051.4 | 5316.8 | 5607.1 | 5887.2 | 6193.8 | 6575.6 | 6978.2 | 7411.4 |
| 72.5° | 3148.6 | 3440.3 | 3784.8 | 4096.5 | 4413.2 | 4678.2 | 4931.1 | 5238.9 | 5624.0 | 6007.4 | 6429.3 |
| 75° | 2062.0 | 2278.0 | 2593.2 | 2849.5 | 3123.4 | 3372.0 | 3555.4 | 3861.0 | 4094.8 | 4455.6 | 4847.6 |
| 77.5° | 1136.3 | 1253.1 | 1416.8 | 1625.8 | 1743.8 | 1883.9 | 2067.4 | 2178.6 | 2344.7 | 2597.1 | 2714.6 |
| 80° | 614.1 | 658.4 | 727.4 | 770.8 | 805.8 | 771.4 | 752.8 | 786.1 | 772.0 | 768.0 | 730.2 |
| 82.5° | 488.2 | 515.0 | 550.6 | 576.0 | 559.6 | 485.6 | 407.2 | 350.1 | 313.4 | 263.7 | 225.9 |
| 85° | 364.0 | 385.2 | 398.6 | 415.6 | 412.8 | 373.2 | 298.8 | 231.0 | 181.2 | 144.6 | 126.0 |
| 87.5° | 136.3 | 144.6 | 148.5 | 180.7 | 166.0 | 157.6 | 122.5 | 89.2 | 68.4 | 49.7 | 40.1 |
| 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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CANDELA DISTRIBUTION (continued):

| | 80° | 81° | 82° | 83° | 84° | 85° | 86° | 87° | 88° | 89° | 90° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0° | 1891.8 | 1891.8 | 1891.8 | 1891.8 | 1891.8 | 1891.8 | 1891.8 | 1891.8 | 1891.8 | 1891.8 | 1891.8 |
| 2.5° | 1896.9 | 1896.4 | 1896.3 | 1896.3 | 1896.8 | 1895.8 | 1894.6 | 1895.8 | 1895.2 | 1895.2 | 1895.2 |
| 5° | 1919.5 | 1918.9 | 1918.9 | 1919.5 | 1918.9 | 1919.5 | 1918.9 | 1916.6 | 1917.8 | 1918.4 | 1918.9 |
| 7.5° | 1958.4 | 1957.9 | 1957.8 | 1960.7 | 1960.2 | 1959.6 | 1959.0 | 1960.2 | 1958.4 | 1958.4 | 1959.6 |
| 10° | 2012.1 | 2014.4 | 2013.8 | 2015.4 | 2014.9 | 2013.8 | 2012.6 | 2013.8 | 2015.5 | 2016.0 | 2013.8 |
| 12.5° | 2077.6 | 2078.1 | 2077.0 | 2079.9 | 2078.2 | 2082.1 | 2077.6 | 2079.9 | 2082.1 | 2078.8 | 2080.4 |
| 15° | 2130.7 | 2130.6 | 2133.0 | 2133.5 | 2133.0 | 2134.0 | 2137.4 | 2135.8 | 2134.1 | 2136.9 | 2138.0 |
| 17.5° | 2162.9 | 2164.6 | 2165.2 | 2165.7 | 2166.9 | 2168.0 | 2168.5 | 2168.0 | 2168.5 | 2169.6 | 2171.9 |
| 20° | 2170.2 | 2169.6 | 2170.8 | 2171.4 | 2173.0 | 2173.0 | 2174.1 | 2173.6 | 2175.3 | 2175.8 | 2176.4 |
| 22.5° | 2157.2 | 2157.8 | 2158.4 | 2160.0 | 2159.5 | 2160.6 | 2161.2 | 2162.9 | 2162.3 | 2163.4 | 2164.0 |
| 25° | 2139.7 | 2140.8 | 2141.4 | 2140.9 | 2140.9 | 2141.4 | 2142.0 | 2141.4 | 2143.6 | 2144.8 | 2144.8 |
| 27.5° | 2128.4 | 2128.4 | 2130.1 | 2129.6 | 2128.4 | 2129.6 | 2129.0 | 2129.0 | 2129.0 | 2129.6 | 2131.2 |
| 30° | 2133.0 | 2131.2 | 2130.1 | 2130.1 | 2129.6 | 2128.4 | 2127.3 | 2125.6 | 2125.6 | 2126.2 | 2125.6 |
| 32.5° | 2157.2 | 2153.8 | 2152.2 | 2150.4 | 2149.4 | 2146.5 | 2143.1 | 2142.0 | 2139.2 | 2139.2 | 2138.0 |
| 35° | 2219.4 | 2215.4 | 2215.4 | 2209.2 | 2205.8 | 2204.1 | 2201.2 | 2192.8 | 2193.4 | 2190.0 | 2188.8 |
| 37.5° | 2343.0 | 2336.2 | 2333.4 | 2339.0 | 2328.4 | 2332.8 | 2323.2 | 2319.3 | 2321.6 | 2315.3 | 2318.7 |
| 40° | 2550.9 | 2561.6 | 2557.0 | 2563.2 | 2566.0 | 2567.2 | 2567.2 | 2557.6 | 2567.2 | 2552.0 | 2557.0 |
| 42.5° | 2850.7 | 2878.9 | 2889.1 | 2892.4 | 2910.0 | 2905.4 | 2900.4 | 2899.8 | 2899.2 | 2906.6 | 2902.6 |
| 45° | 3227.9 | 3231.8 | 3279.8 | 3288.9 | 3298.5 | 3309.2 | 3306.4 | 3318.8 | 3327.9 | 3315.4 | 3317.1 |
| 47.5° | 3613.6 | 3653.7 | 3688.8 | 3708.0 | 3728.8 | 3718.0 | 3726.6 | 3731.6 | 3763.8 | 3760.4 | 3757.6 |
| 50° | 4038.3 | 4105.5 | 4124.2 | 4145.0 | 4161.4 | 4194.2 | 4191.4 | 4211.1 | 4207.7 | 4234.2 | 4237.6 |
| 52.5° | 4441.0 | 4514.9 | 4590.0 | 4622.8 | 4647.6 | 4685.4 | 4700.2 | 4721.5 | 4713.7 | 4711.4 | 4731.2 |
| 55° | 4841.3 | 4965.0 | 5050.8 | 5135.0 | 5181.8 | 5232.1 | 5253.5 | 5284.0 | 5297.6 | 5303.8 | 5279.0 |
| 57.5° | 5238.3 | 5386.8 | 5532.0 | 5635.9 | 5708.2 | 5783.8 | 5823.9 | 5857.2 | 5896.2 | 5909.2 | 5896.8 |
| 60° | 5702.5 | 5919.9 | 6110.2 | 6249.2 | 6382.4 | 6464.9 | 6551.3 | 6614.6 | 6626.4 | 6680.0 | 6714.5 |
| 62.5° | 6320.8 | 6585.7 | 6826.9 | 7029.0 | 7235.7 | 7389.9 | 7545.8 | 7607.8 | 7669.4 | 7711.2 | 7736.6 |
| 65° | 7164.0 | 7513.0 | 7846.2 | 8133.6 | 8387.2 | 8643.6 | 8825.4 | 8920.8 | 9043.4 | 9067.6 | 9041.1 |
| 67.5° | 7903.2 | 8314.9 | 8728.8 | 9094.8 | 9368.7 | 9634.6 | 9850.4 | 10008.4 | 10123.1 | 10179.6 | 10203.3 |
| 69° | 7984.6 | 8403.0 | 8826.0 | 9190.8 | 9522.2 | 9787.7 | 10008.5 | 10165.4 | 10279.6 | 10377.2 | 10394.2 |
| 70° | 7818.0 | 8287.8 | 8698.9 | 9067.1 | 9408.8 | 9679.3 | 9876.9 | 10056.5 | 10186.4 | 10261.5 | 10288.0 |
| 72.5° | 6863.0 | 7285.4 | 7700.5 | 8124.6 | 8417.6 | 8742.3 | 8905.0 | 9049.0 | 9221.8 | 9320.1 | 9298.6 |
| 75° | 5201.0 | 5566.4 | 5928.4 | 6245.8 | 6471.7 | 6591.4 | 6781.7 | 6921.2 | 6895.8 | 7061.2 | 7065.7 |
| 77.5° | 2933.7 | 2981.1 | 3226.8 | 3194.0 | 3302.5 | 3305.2 | 3333.5 | 3382.6 | 3288.4 | 3482.0 | 3343.1 |
| 80° | 711.6 | 702.0 | 752.8 | 692.9 | 687.8 | 682.8 | 665.8 | 699.1 | 703.6 | 669.2 | 675.4 |
| 82.5° | 209.0 | 199.9 | 196.0 | 190.9 | 199.4 | 196.5 | 198.2 | 199.4 | 205.0 | 197.6 | 205.6 |
| 85° | 114.6 | 107.8 | 107.3 | 104.5 | 103.9 | 97.7 | 97.2 | 97.2 | 93.2 | 94.3 | 93.7 |
| 87.5° | 44.1 | 41.2 | 39.0 | 37.2 | 36.8 | 35.0 | 33.3 | 30.5 | 27.1 | 24.2 | 22.6 |
| 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)