

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: P148577

Luminaire Tested: **AVM-F04-LED-E-U-5XQ-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P148577
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33676)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: AVM-F04-LED-E-U-5XQ-7060
Description: VISION SITE MEDIUM LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (28) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10776.1 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U0 - G3

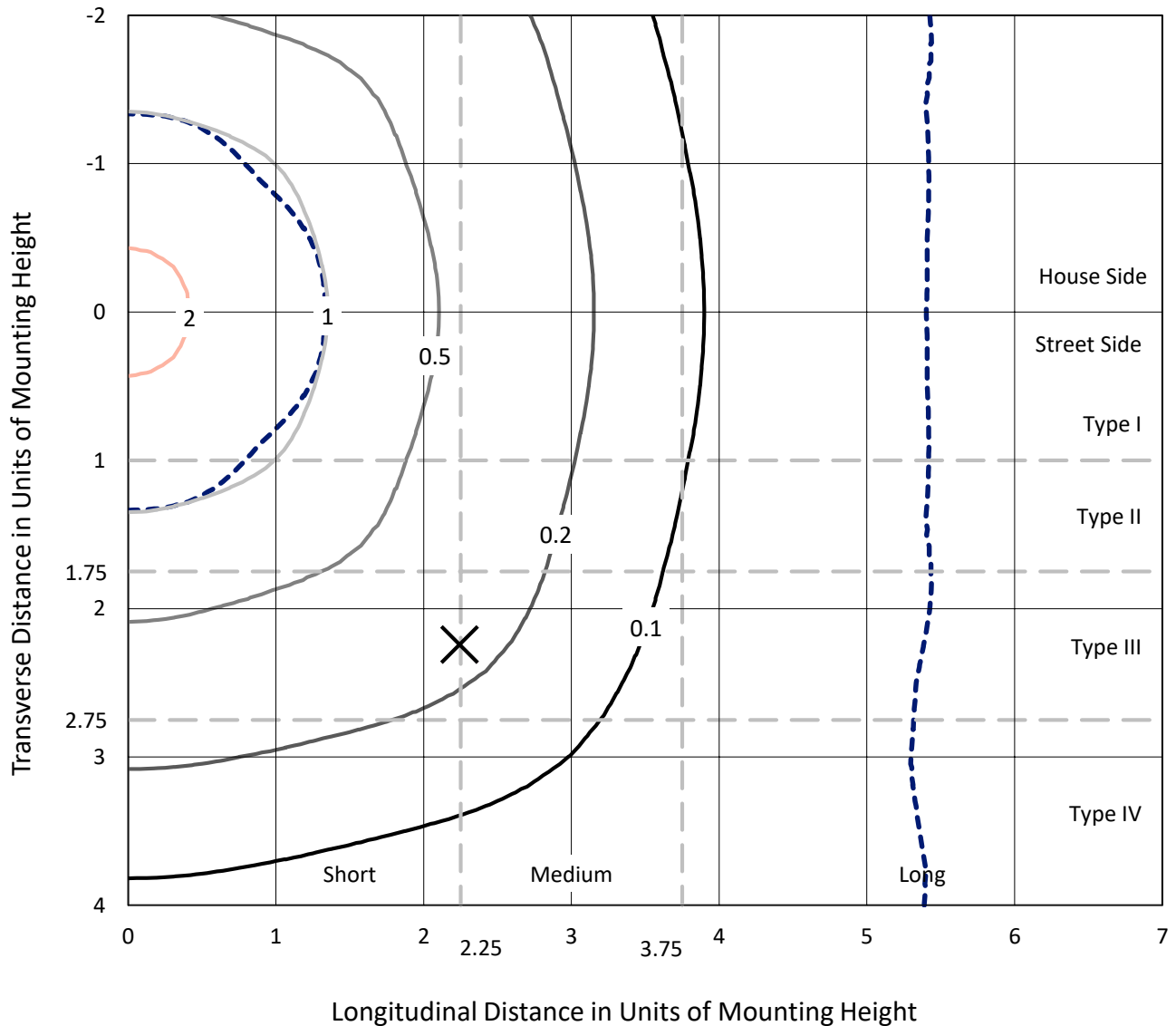
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

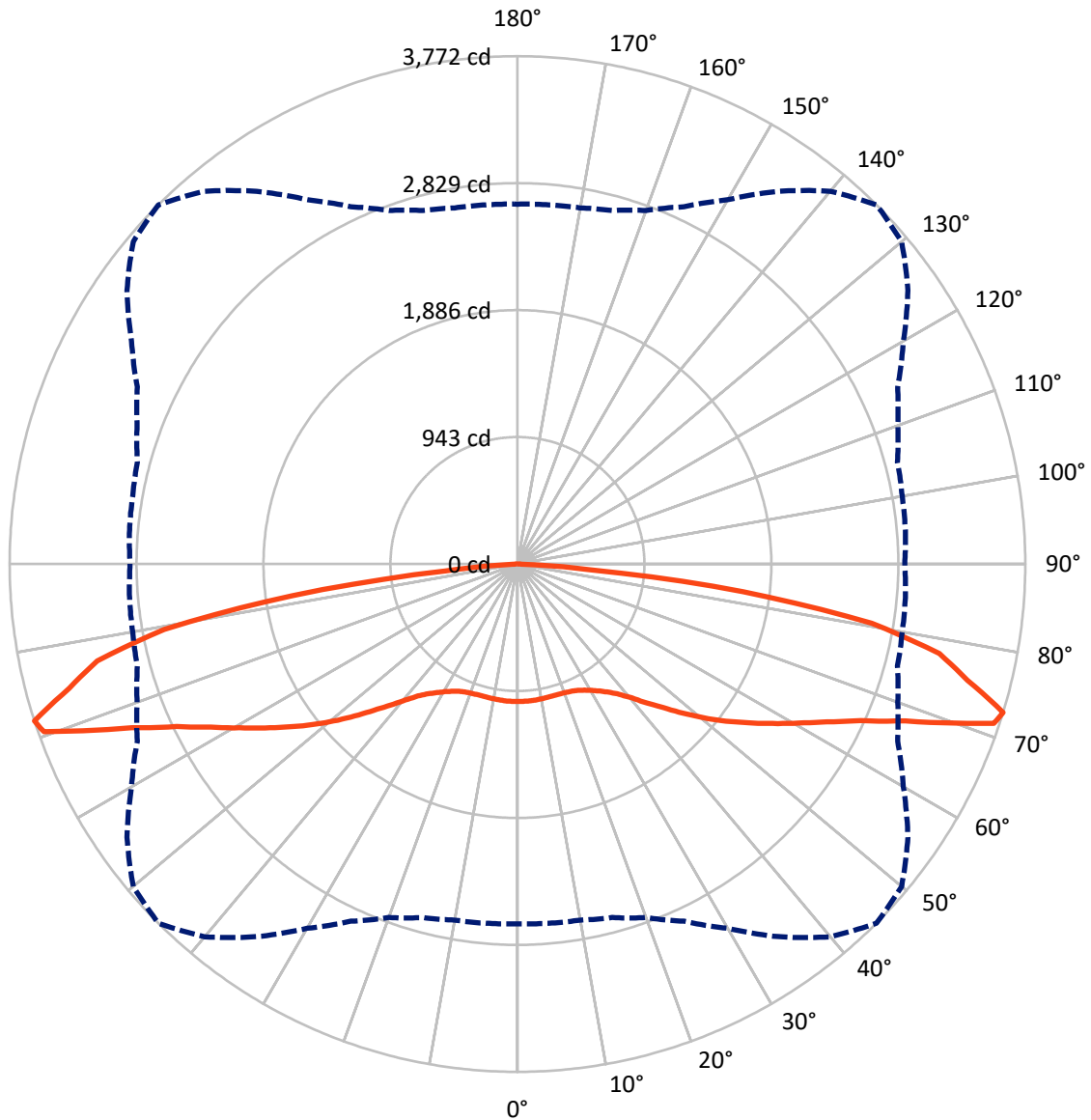
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5388.0 | 0.0 | 5388.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 5388.0 | 0.0 | 5388.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 10776.1 | 0.0 | 10776.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 97.3 | 0.9 |
| 10°-20° | 287.8 | 2.7 |
| 20°-30° | 482.0 | 4.5 |
| 30°-40° | 734.8 | 6.8 |
| 40°-50° | 1173.3 | 10.9 |
| 50°-60° | 1804.1 | 16.7 |
| 60°-70° | 2626.8 | 24.4 |
| 70°-80° | 2959.0 | 27.5 |
| 80°-90° | 610.9 | 5.7 |
| 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° | 10776.1 | 100.0 |
| 0°-180° | 10776.1 | 100.0 |

Coefficient of Utilization



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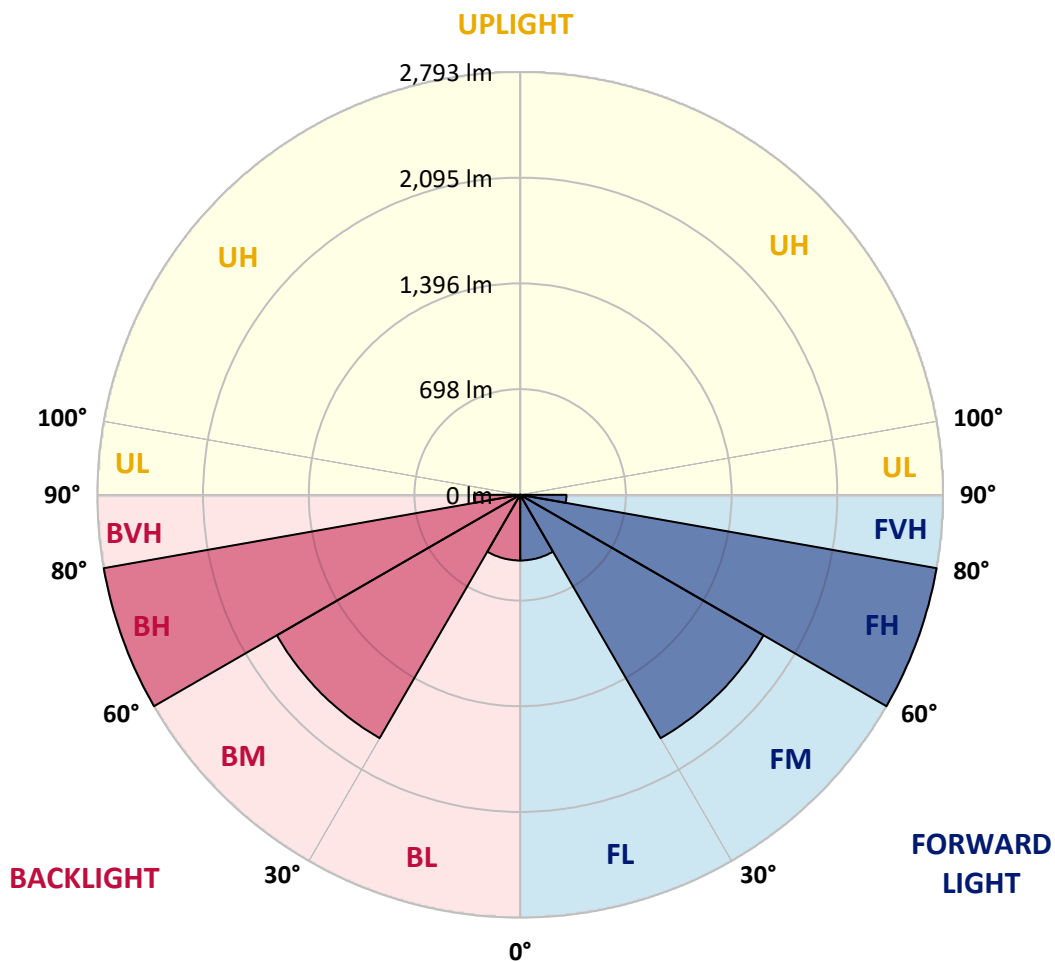
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 433.6 | 4.0 | | | |
| FM (30°-60°) | 1856.1 | 17.2 | | | |
| FH (60°-80°) | 2792.9 | 25.9 | | | G2/5000 |
| FVH (80°-90°) | 305.4 | 2.8 | | | G3/500 |
| BL (0°-30°) | 433.6 | 4.0 | B1/500 | | |
| BM (30°-60°) | 1856.1 | 17.2 | B2/2500 | | |
| BH (60°-80°) | 2792.9 | 25.9 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 305.4 | 2.8 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1021.0 | 1021.0 | 1021.0 | 1021.0 | 1021.0 | 1021.0 | 1021.0 | 1021.0 | 1021.0 | 1021.0 | 1021.0 |
| 2.5° | 1022.7 | 1023.2 | 1023.0 | 1022.4 | 1022.7 | 1022.4 | 1021.8 | 1021.6 | 1019.6 | 1020.8 | 1022.4 |
| 5° | 1022.7 | 1022.2 | 1021.9 | 1021.6 | 1021.6 | 1022.4 | 1021.6 | 1020.7 | 1020.4 | 1021.0 | 1020.2 |
| 7.5° | 1022.1 | 1021.0 | 1020.5 | 1020.2 | 1020.4 | 1020.7 | 1019.9 | 1018.8 | 1019.6 | 1018.7 | 1017.6 |
| 10° | 1020.4 | 1019.6 | 1019.9 | 1018.8 | 1019.0 | 1018.8 | 1017.6 | 1016.8 | 1017.3 | 1016.5 | 1015.1 |
| 12.5° | 1021.0 | 1019.6 | 1019.3 | 1018.8 | 1018.5 | 1018.2 | 1016.8 | 1015.4 | 1015.6 | 1015.1 | 1013.7 |
| 15° | 1021.0 | 1020.2 | 1019.9 | 1018.8 | 1018.5 | 1017.9 | 1016.2 | 1015.6 | 1015.6 | 1014.8 | 1013.1 |
| 17.5° | 1021.6 | 1021.0 | 1021.0 | 1019.6 | 1019.0 | 1018.8 | 1016.8 | 1015.9 | 1016.8 | 1015.1 | 1014.0 |
| 20° | 1023.3 | 1022.7 | 1023.0 | 1022.1 | 1021.0 | 1021.0 | 1019.6 | 1019.0 | 1019.4 | 1019.0 | 1015.9 |
| 22.5° | 1026.6 | 1026.6 | 1027.2 | 1026.9 | 1026.6 | 1027.0 | 1025.8 | 1025.8 | 1026.1 | 1026.1 | 1023.6 |
| 25° | 1036.2 | 1036.0 | 1036.6 | 1036.6 | 1036.8 | 1038.8 | 1038.0 | 1037.6 | 1039.1 | 1039.1 | 1036.5 |
| 27.5° | 1054.3 | 1053.8 | 1054.3 | 1054.9 | 1056.3 | 1058.8 | 1058.3 | 1059.2 | 1061.4 | 1060.8 | 1058.5 |
| 30° | 1075.2 | 1074.7 | 1076.1 | 1077.8 | 1078.9 | 1082.8 | 1081.1 | 1085.4 | 1087.4 | 1089.1 | 1087.4 |
| 32.5° | 1105.8 | 1105.7 | 1108.2 | 1109.4 | 1111.9 | 1115.9 | 1116.4 | 1119.8 | 1122.4 | 1125.2 | 1123.2 |
| 35° | 1146.4 | 1145.8 | 1147.8 | 1149.8 | 1152.9 | 1156.5 | 1158.0 | 1162.4 | 1166.4 | 1168.4 | 1164.8 |
| 37.5° | 1208.5 | 1205.4 | 1209.1 | 1210.2 | 1212.8 | 1213.6 | 1217.5 | 1223.2 | 1227.4 | 1226.9 | 1224.3 |
| 40° | 1292.6 | 1292.1 | 1290.6 | 1289.0 | 1292.9 | 1294.3 | 1294.3 | 1302.0 | 1308.7 | 1307.6 | 1307.3 |
| 42.5° | 1390.9 | 1388.4 | 1386.6 | 1386.7 | 1388.9 | 1389.5 | 1398.2 | 1403.9 | 1408.7 | 1409.8 | 1408.7 |
| 45° | 1496.5 | 1494.0 | 1494.5 | 1493.4 | 1494.2 | 1497.9 | 1503.0 | 1513.4 | 1522.5 | 1522.8 | 1517.9 |
| 47.5° | 1610.0 | 1602.1 | 1608.3 | 1599.6 | 1604.9 | 1607.8 | 1620.4 | 1635.7 | 1651.5 | 1654.4 | 1650.1 |
| 50° | 1725.2 | 1724.4 | 1723.8 | 1722.1 | 1724.6 | 1730.8 | 1746.4 | 1770.4 | 1785.6 | 1795.8 | 1789.0 |
| 52.5° | 1851.1 | 1846.9 | 1844.9 | 1842.1 | 1844.6 | 1856.8 | 1878.5 | 1899.4 | 1926.8 | 1938.4 | 1929.1 |
| 55° | 1973.7 | 1972.3 | 1965.0 | 1964.6 | 1970.0 | 1989.0 | 2012.7 | 2038.4 | 2068.0 | 2081.0 | 2077.6 |
| 57.5° | 2099.6 | 2091.4 | 2089.2 | 2085.8 | 2096.5 | 2114.3 | 2143.4 | 2189.7 | 2220.5 | 2235.2 | 2226.7 |
| 60° | 2222.7 | 2216.5 | 2211.7 | 2210.6 | 2217.9 | 2242.8 | 2284.6 | 2340.2 | 2378.3 | 2397.5 | 2384.0 |
| 62.5° | 2354.8 | 2350.9 | 2345.3 | 2338.8 | 2354.3 | 2386.2 | 2438.2 | 2499.7 | 2555.9 | 2579.6 | 2559.0 |
| 65° | 2519.2 | 2511.0 | 2504.8 | 2496.6 | 2509.3 | 2549.4 | 2614.6 | 2701.3 | 2776.7 | 2804.4 | 2789.7 |
| 67.5° | 2692.6 | 2685.0 | 2685.5 | 2680.4 | 2703.0 | 2758.6 | 2842.8 | 2960.5 | 3061.6 | 3108.8 | 3081.1 |
| 70° | 2843.9 | 2848.1 | 2849.3 | 2869.9 | 2908.9 | 2993.6 | 3133.6 | 3318.0 | 3471.3 | 3543.3 | 3513.7 |
| 71° | 2799.3 | 2808.6 | 2823.0 | 2844.5 | 2911.7 | 3011.9 | 3203.1 | 3426.4 | 3609.4 | 3731.4 | 3690.4 |
| 72.5° | 2672.8 | 2678.4 | 2685.8 | 2718.5 | 2794.5 | 2927.2 | 3124.0 | 3379.2 | 3614.5 | 3772.3 | 3724.9 |
| 75° | 2489.9 | 2495.2 | 2497.7 | 2520.6 | 2589.8 | 2705.6 | 2885.7 | 3112.2 | 3319.7 | 3454.1 | 3440.8 |
| 77.5° | 2213.7 | 2214.5 | 2234.3 | 2269.6 | 2347.2 | 2479.7 | 2669.4 | 2904.3 | 3099.4 | 3203.9 | 3137.6 |
| 80° | 1589.7 | 1579.0 | 1599.3 | 1644.7 | 1740.7 | 1892.6 | 2086.9 | 2355.2 | 2571.7 | 2669.4 | 2566.6 |
| 82.5° | 604.8 | 637.6 | 689.2 | 764.4 | 796.8 | 965.7 | 1146.9 | 1304.5 | 1486.9 | 1690.8 | 1639.7 |
| 85° | 65.0 | 73.2 | 91.8 | 113.8 | 143.7 | 198.8 | 274.7 | 375.0 | 462.2 | 543.3 | 482.3 |
| 87.5° | 24.3 | 24.8 | 27.7 | 31.9 | 32.5 | 33.9 | 36.1 | 42.1 | 39.2 | 33.9 | 27.4 |
| 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: AVM-F04-LED-E-U-5XQ-7060

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1021.0 | 1021.0 | 1021.0 | 1021.0 | 1021.0 | 1021.0 | 1021.0 | 1021.0 |
| 2.5° | 1021.0 | 1021.3 | 1021.0 | 1021.3 | 1021.3 | 1020.2 | 1020.4 | 1019.8 |
| 5° | 1020.7 | 1019.9 | 1020.2 | 1020.4 | 1020.2 | 1020.8 | 1019.9 | 1020.4 |
| 7.5° | 1019.3 | 1017.6 | 1018.2 | 1018.2 | 1017.6 | 1018.4 | 1017.9 | 1017.6 |
| 10° | 1016.5 | 1014.2 | 1015.4 | 1014.8 | 1014.5 | 1014.8 | 1014.8 | 1014.8 |
| 12.5° | 1013.9 | 1012.6 | 1012.8 | 1012.5 | 1012.2 | 1013.1 | 1012.8 | 1013.1 |
| 15° | 1013.4 | 1011.1 | 1010.8 | 1010.3 | 1010.6 | 1011.2 | 1011.1 | 1012.0 |
| 17.5° | 1012.8 | 1010.0 | 1009.7 | 1009.1 | 1009.4 | 1010.6 | 1010.8 | 1010.3 |
| 20° | 1014.5 | 1012.2 | 1011.7 | 1011.1 | 1010.8 | 1012.2 | 1012.0 | 1012.0 |
| 22.5° | 1022.4 | 1019.6 | 1019.3 | 1017.1 | 1016.2 | 1017.0 | 1016.5 | 1016.5 |
| 25° | 1035.1 | 1031.8 | 1030.6 | 1027.5 | 1025.2 | 1025.2 | 1024.4 | 1023.8 |
| 27.5° | 1058.0 | 1052.9 | 1051.8 | 1049.2 | 1046.1 | 1046.7 | 1045.0 | 1044.7 |
| 30° | 1084.6 | 1080.0 | 1076.0 | 1072.4 | 1068.7 | 1067.3 | 1065.4 | 1065.1 |
| 32.5° | 1119.2 | 1114.2 | 1109.4 | 1104.9 | 1099.8 | 1097.8 | 1094.4 | 1092.8 |
| 35° | 1161.9 | 1155.2 | 1149.5 | 1146.4 | 1141.3 | 1138.7 | 1136.5 | 1139.1 |
| 37.5° | 1221.5 | 1213.3 | 1210.5 | 1206.8 | 1203.4 | 1199.4 | 1200.3 | 1199.4 |
| 40° | 1303.9 | 1296.6 | 1293.8 | 1287.3 | 1286.4 | 1281.9 | 1284.7 | 1281.9 |
| 42.5° | 1405.9 | 1392.3 | 1390.3 | 1385.2 | 1383.6 | 1381.0 | 1382.2 | 1380.2 |
| 45° | 1516.8 | 1504.7 | 1502.4 | 1494.2 | 1494.5 | 1488.6 | 1490.8 | 1490.8 |
| 47.5° | 1641.6 | 1628.9 | 1618.5 | 1612.6 | 1610.3 | 1606.6 | 1608.6 | 1608.4 |
| 50° | 1770.4 | 1753.2 | 1741.6 | 1730.0 | 1724.9 | 1726.4 | 1722.4 | 1729.2 |
| 52.5° | 1908.8 | 1883.0 | 1866.6 | 1855.6 | 1846.1 | 1848.0 | 1848.6 | 1850.6 |
| 55° | 2051.9 | 2019.2 | 1995.4 | 1981.0 | 1972.3 | 1972.8 | 1975.4 | 1977.6 |
| 57.5° | 2195.9 | 2155.0 | 2122.8 | 2101.3 | 2095.7 | 2098.2 | 2098.2 | 2098.0 |
| 60° | 2345.3 | 2296.1 | 2254.6 | 2230.4 | 2225.3 | 2223.8 | 2234.9 | 2231.2 |
| 62.5° | 2505.7 | 2446.6 | 2403.7 | 2372.7 | 2365.3 | 2370.4 | 2380.3 | 2378.0 |
| 65° | 2718.2 | 2636.6 | 2581.3 | 2550.6 | 2538.1 | 2543.2 | 2556.5 | 2555.9 |
| 67.5° | 2992.4 | 2878.4 | 2805.2 | 2765.7 | 2756.7 | 2762.9 | 2770.2 | 2777.3 |
| 70° | 3402.4 | 3239.5 | 3135.0 | 3049.4 | 3012.7 | 3005.7 | 3013.1 | 3013.3 |
| 71° | 3546.7 | 3359.5 | 3193.2 | 3088.7 | 3028.6 | 3003.2 | 3005.2 | 2992.4 |
| 72.5° | 3540.8 | 3310.1 | 3115.6 | 3006.3 | 2922.7 | 2902.3 | 2892.5 | 2877.2 |
| 75° | 3302.2 | 3094.4 | 2925.5 | 2806.4 | 2725.9 | 2701.9 | 2684.4 | 2683.6 |
| 77.5° | 2994.7 | 2841.4 | 2655.3 | 2529.1 | 2431.1 | 2391.3 | 2373.5 | 2373.0 |
| 80° | 2407.4 | 2177.8 | 2041.7 | 1965.8 | 1847.5 | 1813.3 | 1777.2 | 1763.6 |
| 82.5° | 1455.8 | 1137.6 | 925.0 | 822.0 | 764.9 | 629.9 | 565.3 | 534.8 |
| 85° | 339.1 | 240.8 | 166.0 | 109.0 | 78.5 | 62.4 | 48.0 | 42.4 |
| 87.5° | 22.9 | 18.1 | 16.1 | 13.0 | 9.9 | 9.6 | 5.9 | 5.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)