

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: P149147

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P149147  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33677)  
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-RW-7060  
Description: VISION SITE MEDIUM 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: 10584.8 lumens  
Efficiency: N/A  
Efficacy: 103.6 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

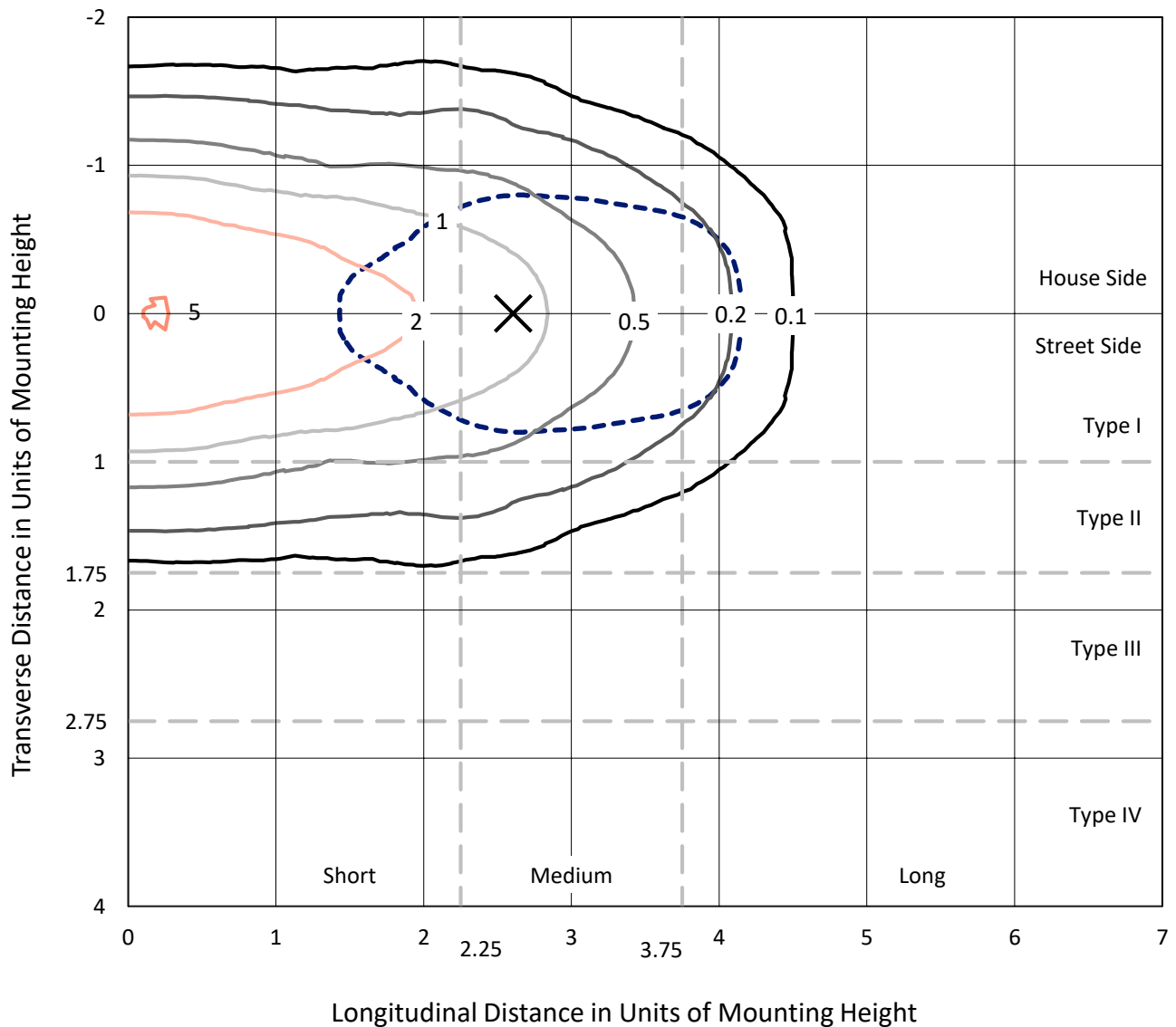
Input Watts (W): 102.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P149147  
 CATALOG NUMBER: AVM-F04-LED-E-U-RW-7060

### Iso-Footcandle Lines of Horizontal Illumination

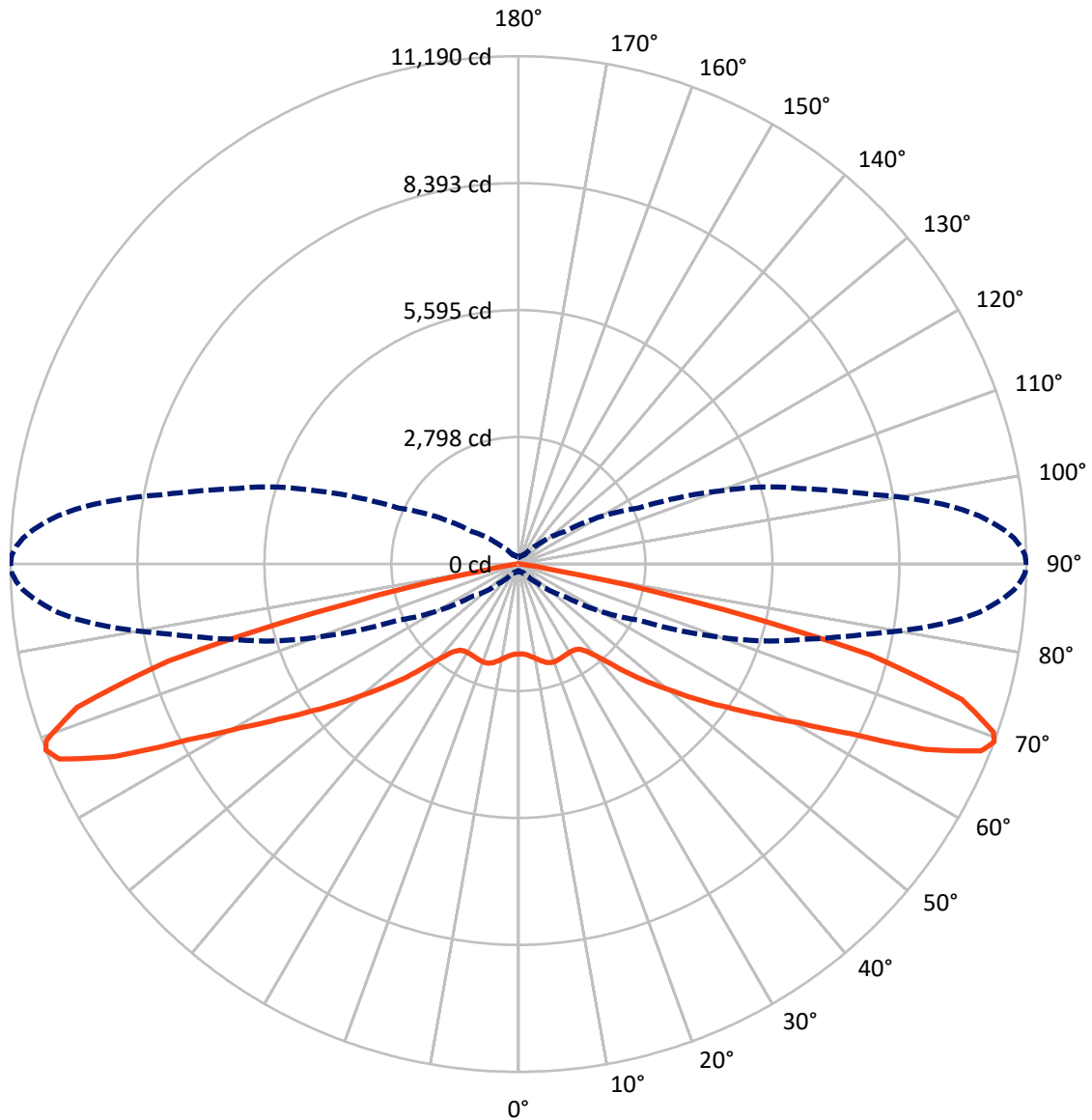
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.1 fc  
 Type V - Medium - Full Cutoff

REPORT NUMBER: P149147  
CATALOG NUMBER: AVM-F04-LED-E-U-RW-7060

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P149147

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

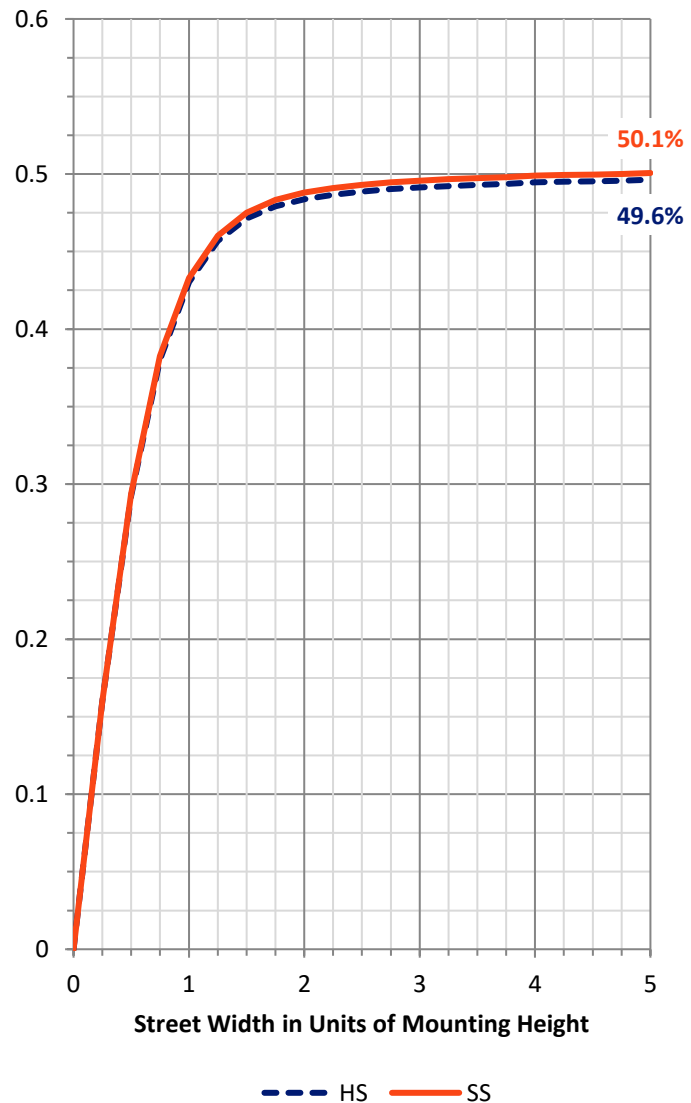
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5292.4   | 0.0    | 5292.4  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 5292.4   | 0.0    | 5292.4  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 10584.8  | 0.0    | 10584.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 194.5   | 1.8       |
| 10°-20°   | 613.7   | 5.8       |
| 20°-30°   | 994.2   | 9.4       |
| 30°-40°   | 1239.1  | 11.7      |
| 40°-50°   | 1548.4  | 14.6      |
| 50°-60°   | 1911.9  | 18.1      |
| 60°-70°   | 2375.7  | 22.4      |
| 70°-80°   | 1577.1  | 14.9      |
| 80°-90°   | 130.2   | 1.2       |
| 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°    | 10584.8 | 100.0     |
| 0°-180°   | 10584.8 | 100.0     |



REPORT NUMBER: P149147

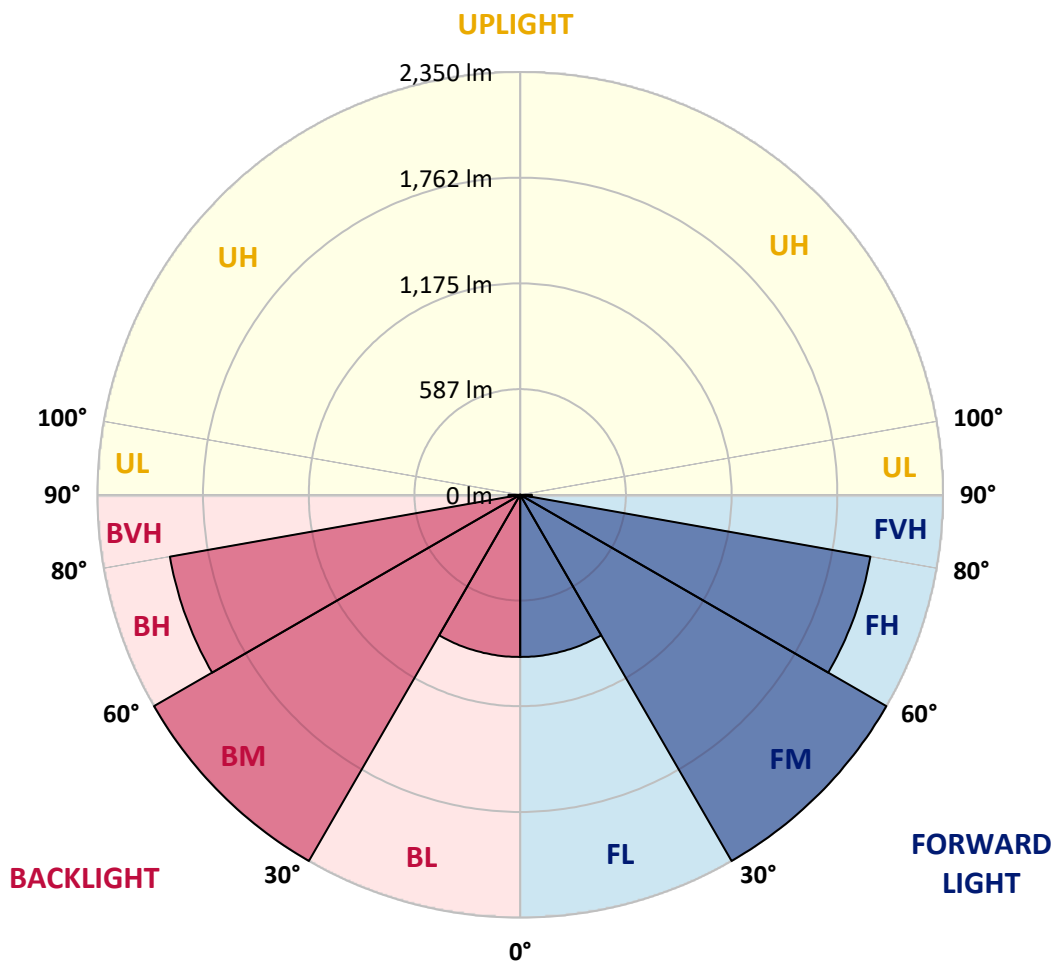
CATALOG NUMBER: AVM-F04-LED-E-U-RW-7060

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 901.2  | 8.5       |                         |      |         |
| FM   | (30°-60°)   | 2349.7 | 22.2      |                         |      |         |
| FH   | (60°-80°)   | 1976.4 | 18.7      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 65.1   | 0.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 901.2  | 8.5       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 2349.7 | 22.2      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1976.4 | 18.7      | B3/2500                 |      | G2/5000 |
| BVH  | (80°-90°)   | 65.1   | 0.6       |                         |      | 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





REPORT NUMBER: P149147

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

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 66°    | 67°    | 68°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1983.3 | 1983.3 | 1983.3 | 1983.3 | 1983.3 | 1983.3 | 1983.3 | 1983.3 | 1983.3 | 1983.3 | 1983.3 |
| 2.5°  | 1992.4 | 1994.0 | 1992.9 | 1995.2 | 1994.6 | 1994.6 | 1993.4 | 1991.2 | 1990.9 | 1990.6 | 1990.4 |
| 5°    | 2011.6 | 2009.2 | 2012.6 | 2016.0 | 2014.9 | 2015.5 | 2014.9 | 2015.0 | 2014.7 | 2014.5 | 2014.3 |
| 7.5°  | 2031.9 | 2031.3 | 2033.6 | 2042.6 | 2043.7 | 2047.1 | 2051.1 | 2053.9 | 2054.0 | 2054.1 | 2054.2 |
| 10°   | 2049.4 | 2049.9 | 2055.6 | 2068.6 | 2075.4 | 2086.0 | 2096.8 | 2105.2 | 2105.9 | 2106.5 | 2107.1 |
| 12.5° | 2063.4 | 2064.0 | 2072.5 | 2092.8 | 2109.2 | 2129.6 | 2152.7 | 2165.7 | 2166.8 | 2168.0 | 2169.1 |
| 15°   | 2064.6 | 2066.3 | 2081.0 | 2114.3 | 2147.0 | 2180.4 | 2208.0 | 2225.6 | 2226.5 | 2227.4 | 2228.3 |
| 17.5° | 2049.9 | 2051.0 | 2075.9 | 2125.0 | 2179.8 | 2231.8 | 2260.6 | 2268.4 | 2268.8 | 2269.1 | 2269.5 |
| 20°   | 2011.6 | 2014.4 | 2049.4 | 2122.2 | 2205.8 | 2273.6 | 2303.5 | 2292.8 | 2291.7 | 2290.6 | 2289.5 |
| 22.5° | 1949.4 | 1948.8 | 1994.6 | 2092.8 | 2210.8 | 2306.3 | 2332.8 | 2304.6 | 2301.3 | 2298.0 | 2294.6 |
| 25°   | 1848.8 | 1855.6 | 1909.3 | 2026.8 | 2182.0 | 2313.6 | 2353.8 | 2310.8 | 2306.0 | 2301.2 | 2296.4 |
| 27.5° | 1739.9 | 1743.8 | 1800.9 | 1926.8 | 2114.9 | 2288.2 | 2363.9 | 2323.2 | 2317.9 | 2312.5 | 2307.2 |
| 30°   | 1612.8 | 1617.9 | 1678.9 | 1810.5 | 2007.0 | 2222.8 | 2361.1 | 2351.5 | 2345.2 | 2339.0 | 2332.7 |
| 32.5° | 1488.6 | 1494.2 | 1549.0 | 1693.0 | 1893.5 | 2133.0 | 2344.2 | 2391.6 | 2385.1 | 2378.7 | 2372.2 |
| 35°   | 1359.9 | 1368.3 | 1435.0 | 1580.6 | 1784.0 | 2033.0 | 2318.1 | 2443.0 | 2439.4 | 2435.8 | 2432.3 |
| 37.5° | 1253.1 | 1254.8 | 1319.2 | 1472.2 | 1682.2 | 1937.6 | 2283.8 | 2507.9 | 2510.5 | 2513.1 | 2515.7 |
| 40°   | 1134.0 | 1144.7 | 1209.1 | 1370.6 | 1590.2 | 1856.8 | 2251.0 | 2596.0 | 2609.5 | 2623.0 | 2636.5 |
| 42.5° | 1027.2 | 1028.4 | 1093.8 | 1260.4 | 1490.3 | 1791.8 | 2232.9 | 2702.2 | 2731.0 | 2759.9 | 2788.7 |
| 45°   | 914.8  | 919.4  | 978.6  | 1139.6 | 1375.1 | 1715.0 | 2232.3 | 2824.7 | 2870.8 | 2916.9 | 2962.9 |
| 47.5° | 808.7  | 810.4  | 873.0  | 1022.7 | 1242.9 | 1607.8 | 2228.4 | 2956.3 | 3019.0 | 3081.8 | 3144.5 |
| 50°   | 707.0  | 705.3  | 766.9  | 910.8  | 1112.5 | 1467.1 | 2193.9 | 3105.4 | 3184.6 | 3263.9 | 3343.1 |
| 52.5° | 590.7  | 598.6  | 662.4  | 800.2  | 993.9  | 1324.2 | 2093.4 | 3268.6 | 3363.4 | 3458.1 | 3552.9 |
| 55°   | 476.6  | 480.0  | 548.4  | 677.0  | 873.6  | 1191.0 | 1918.3 | 3418.8 | 3530.5 | 3642.2 | 3753.9 |
| 57.5° | 351.2  | 361.4  | 421.2  | 548.3  | 751.7  | 1078.6 | 1695.8 | 3496.8 | 3632.7 | 3768.6 | 3904.5 |
| 60°   | 247.9  | 255.8  | 308.9  | 415.6  | 617.8  | 960.6  | 1504.4 | 3453.2 | 3629.9 | 3806.5 | 3983.2 |
| 62.5° | 193.2  | 199.4  | 241.7  | 311.2  | 481.7  | 842.6  | 1367.1 | 3312.6 | 3553.0 | 3793.3 | 4033.7 |
| 65°   | 169.4  | 175.0  | 213.4  | 249.0  | 359.8  | 722.3  | 1292.1 | 3164.2 | 3481.9 | 3799.6 | 4117.3 |
| 67.5° | 153.0  | 159.9  | 193.1  | 218.0  | 293.1  | 630.2  | 1272.3 | 3070.4 | 3430.2 | 3790.0 | 4149.9 |
| 69°   | 145.7  | 152.4  | 182.4  | 203.3  | 272.2  | 597.4  | 1238.4 | 2923.0 | 3280.7 | 3638.5 | 3996.2 |
| 70°   | 141.2  | 146.8  | 174.5  | 196.0  | 265.4  | 574.8  | 1181.9 | 2738.9 | 3090.2 | 3441.5 | 3792.8 |
| 72.5° | 131.0  | 133.8  | 158.1  | 179.0  | 246.2  | 464.8  | 909.2  | 2034.1 | 2338.6 | 2643.2 | 2947.8 |
| 75°   | 115.8  | 119.2  | 141.8  | 162.1  | 192.0  | 288.5  | 575.4  | 1258.2 | 1485.6 | 1712.9 | 1940.3 |
| 77.5° | 99.9   | 102.8  | 122.6  | 154.7  | 149.1  | 180.1  | 343.9  | 700.2  | 832.1  | 964.0  | 1095.8 |
| 80°   | 80.2   | 83.6   | 101.1  | 153.6  | 123.1  | 140.0  | 247.4  | 489.6  | 525.2  | 560.8  | 596.3  |
| 82.5° | 58.7   | 61.6   | 79.0   | 124.2  | 94.3   | 105.6  | 188.6  | 415.1  | 427.5  | 439.8  | 452.2  |
| 85°   | 29.9   | 30.5   | 50.2   | 75.6   | 59.8   | 54.8   | 106.2  | 284.0  | 292.0  | 299.9  | 307.8  |
| 87.5° | 5.1    | 5.1    | 11.3   | 13.0   | 14.6   | 9.0    | 13.6   | 48.6   | 50.1   | 51.6   | 53.1   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



REPORT NUMBER: P149147

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

**CANDELA DISTRIBUTION (continued):**

|       | 69°    | 70°    | 71°    | 72°    | 73°    | 74°    | 75°    | 76°    | 77°    | 78°    | 79°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1983.3 | 1983.3 | 1983.3 | 1983.3 | 1983.3 | 1983.3 | 1983.3 | 1983.3 | 1983.3 | 1983.3 | 1983.3 |
| 2.5°  | 1990.1 | 1989.8 | 1988.8 | 1989.0 | 1989.7 | 1989.3 | 1990.0 | 1990.2 | 1990.9 | 1988.7 | 1988.2 |
| 5°    | 2014.0 | 2013.8 | 2013.7 | 2013.6 | 2014.0 | 2013.9 | 2014.4 | 2015.2 | 2015.0 | 2013.7 | 2013.5 |
| 7.5°  | 2054.4 | 2054.5 | 2055.0 | 2054.5 | 2055.6 | 2055.0 | 2053.9 | 2055.7 | 2056.9 | 2057.0 | 2058.3 |
| 10°   | 2107.8 | 2108.4 | 2110.3 | 2110.1 | 2112.0 | 2111.8 | 2112.0 | 2113.9 | 2115.3 | 2115.5 | 2116.9 |
| 12.5° | 2170.2 | 2171.3 | 2172.3 | 2173.4 | 2175.5 | 2174.3 | 2177.0 | 2178.1 | 2179.8 | 2183.2 | 2181.5 |
| 15°   | 2229.2 | 2230.1 | 2233.1 | 2233.3 | 2235.2 | 2236.0 | 2238.6 | 2239.6 | 2240.0 | 2242.7 | 2243.2 |
| 17.5° | 2269.8 | 2270.2 | 2271.3 | 2270.7 | 2272.4 | 2271.8 | 2273.6 | 2274.4 | 2275.9 | 2277.4 | 2280.0 |
| 20°   | 2288.5 | 2287.4 | 2286.8 | 2286.1 | 2285.0 | 2283.2 | 2283.7 | 2284.5 | 2284.7 | 2286.1 | 2288.0 |
| 22.5° | 2291.3 | 2288.0 | 2284.5 | 2282.2 | 2278.7 | 2275.8 | 2273.0 | 2273.2 | 2273.4 | 2273.1 | 2274.4 |
| 25°   | 2291.6 | 2286.8 | 2281.5 | 2275.0 | 2270.2 | 2263.7 | 2258.3 | 2257.9 | 2256.3 | 2256.4 | 2257.1 |
| 27.5° | 2301.8 | 2296.4 | 2288.9 | 2281.4 | 2271.1 | 2262.5 | 2253.8 | 2250.8 | 2247.7 | 2245.8 | 2245.0 |
| 30°   | 2326.4 | 2320.1 | 2311.2 | 2301.6 | 2290.4 | 2276.9 | 2264.6 | 2260.7 | 2256.3 | 2252.4 | 2249.1 |
| 32.5° | 2365.8 | 2359.4 | 2349.4 | 2339.5 | 2324.5 | 2311.2 | 2299.0 | 2292.7 | 2286.5 | 2279.7 | 2273.6 |
| 35°   | 2428.7 | 2425.2 | 2416.4 | 2407.7 | 2396.7 | 2386.2 | 2375.2 | 2368.2 | 2357.8 | 2352.5 | 2344.9 |
| 37.5° | 2518.3 | 2520.9 | 2520.9 | 2522.0 | 2518.6 | 2513.5 | 2505.6 | 2498.3 | 2494.9 | 2480.8 | 2471.8 |
| 40°   | 2650.0 | 2663.5 | 2675.8 | 2685.4 | 2693.8 | 2702.2 | 2709.5 | 2705.2 | 2706.6 | 2702.8 | 2697.4 |
| 42.5° | 2817.6 | 2846.5 | 2872.8 | 2899.2 | 2918.2 | 2948.0 | 2968.7 | 2975.2 | 2992.0 | 2998.5 | 3010.7 |
| 45°   | 3009.0 | 3055.1 | 3099.4 | 3140.3 | 3178.3 | 3220.9 | 3262.4 | 3293.2 | 3326.9 | 3365.0 | 3403.2 |
| 47.5° | 3207.3 | 3270.0 | 3335.2 | 3388.6 | 3443.6 | 3506.6 | 3561.6 | 3608.1 | 3668.6 | 3724.7 | 3786.3 |
| 50°   | 3422.3 | 3501.5 | 3575.8 | 3641.6 | 3712.5 | 3785.0 | 3860.4 | 3928.6 | 4010.4 | 4100.0 | 4197.1 |
| 52.5° | 3647.6 | 3742.4 | 3828.4 | 3910.9 | 3994.0 | 4077.2 | 4157.5 | 4253.8 | 4354.7 | 4473.0 | 4594.2 |
| 55°   | 3865.6 | 3977.3 | 4074.8 | 4166.6 | 4261.8 | 4354.8 | 4437.6 | 4566.4 | 4690.2 | 4831.5 | 4989.7 |
| 57.5° | 4040.4 | 4176.4 | 4288.8 | 4397.8 | 4505.2 | 4604.1 | 4705.8 | 4851.1 | 5008.9 | 5174.0 | 5374.7 |
| 60°   | 4159.8 | 4336.4 | 4480.0 | 4611.1 | 4742.8 | 4867.2 | 4984.2 | 5174.2 | 5361.9 | 5567.1 | 5816.9 |
| 62.5° | 4274.0 | 4514.4 | 4701.6 | 4880.4 | 5058.1 | 5217.7 | 5363.2 | 5602.1 | 5847.3 | 6101.0 | 6398.1 |
| 65°   | 4435.0 | 4752.7 | 5028.5 | 5277.7 | 5523.6 | 5758.2 | 5975.8 | 6278.6 | 6588.2 | 6922.1 | 7276.8 |
| 67.5° | 4509.7 | 4869.5 | 5228.7 | 5564.7 | 5877.0 | 6174.1 | 6453.6 | 6819.6 | 7184.0 | 7570.9 | 7999.7 |
| 69°   | 4354.0 | 4711.7 | 5095.7 | 5462.7 | 5807.7 | 6122.7 | 6425.4 | 6799.1 | 7177.9 | 7573.1 | 8005.5 |
| 70°   | 4144.1 | 4495.4 | 4883.0 | 5266.6 | 5596.6 | 5924.8 | 6238.4 | 6609.2 | 6993.0 | 7389.2 | 7841.9 |
| 72.5° | 3252.3 | 3556.8 | 3934.8 | 4307.2 | 4638.2 | 4967.7 | 5272.2 | 5651.7 | 6038.0 | 6454.2 | 6882.8 |
| 75°   | 2167.6 | 2395.0 | 2676.6 | 3021.9 | 3325.6 | 3616.7 | 3911.8 | 4232.8 | 4609.7 | 4952.7 | 5344.8 |
| 77.5° | 1227.7 | 1359.6 | 1523.2 | 1747.8 | 1965.6 | 2139.9 | 2350.4 | 2501.4 | 2720.1 | 2909.0 | 3108.6 |
| 80°   | 631.9  | 667.5  | 716.2  | 770.1  | 800.8  | 796.0  | 827.3  | 796.3  | 803.3  | 777.9  | 751.0  |
| 82.5° | 464.5  | 476.9  | 499.0  | 509.8  | 508.7  | 473.2  | 435.4  | 383.0  | 336.8  | 288.4  | 243.8  |
| 85°   | 315.7  | 323.6  | 329.1  | 337.5  | 335.1  | 319.7  | 285.8  | 240.2  | 195.8  | 157.1  | 125.7  |
| 87.5° | 54.6   | 56.2   | 55.8   | 60.5   | 60.6   | 56.3   | 46.3   | 39.5   | 33.3   | 24.8   | 17.5   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |





REPORT NUMBER: P149147

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

**CANDELA DISTRIBUTION (continued):**

|       | 80°    | 81°    | 82°    | 83°    | 84°     | 85°     | 86°     | 87°     | 88°     | 89°     | 90°     |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 1983.3 | 1983.3 | 1983.3 | 1983.3 | 1983.3  | 1983.3  | 1983.3  | 1983.3  | 1983.3  | 1983.3  | 1983.3  |
| 2.5°  | 1987.8 | 1987.8 | 1989.0 | 1987.8 | 1987.8  | 1987.8  | 1987.2  | 1988.4  | 1987.8  | 1986.1  | 1984.4  |
| 5°    | 2013.8 | 2012.1 | 2011.6 | 2012.6 | 2013.8  | 2011.6  | 2013.2  | 2015.0  | 2012.1  | 2012.7  | 2011.5  |
| 7.5°  | 2057.2 | 2056.7 | 2056.2 | 2057.2 | 2057.2  | 2056.7  | 2057.2  | 2055.6  | 2054.4  | 2056.1  | 2057.8  |
| 10°   | 2115.4 | 2114.8 | 2116.0 | 2116.0 | 2118.3  | 2117.1  | 2116.6  | 2118.2  | 2117.1  | 2116.0  | 2116.6  |
| 12.5° | 2183.8 | 2182.0 | 2184.9 | 2184.9 | 2186.6  | 2186.6  | 2186.0  | 2186.6  | 2186.0  | 2184.3  | 2183.2  |
| 15°   | 2244.8 | 2242.5 | 2243.0 | 2247.6 | 2247.0  | 2248.2  | 2248.1  | 2247.0  | 2246.4  | 2245.9  | 2246.4  |
| 17.5° | 2281.4 | 2280.3 | 2280.4 | 2282.6 | 2284.2  | 2283.8  | 2283.7  | 2283.8  | 2283.2  | 2283.7  | 2284.8  |
| 20°   | 2288.2 | 2288.2 | 2288.8 | 2291.0 | 2293.9  | 2292.2  | 2292.2  | 2293.3  | 2292.2  | 2293.3  | 2293.9  |
| 22.5° | 2275.2 | 2276.4 | 2277.5 | 2280.3 | 2280.9  | 2280.9  | 2280.9  | 2281.4  | 2282.6  | 2282.6  | 2283.7  |
| 25°   | 2257.1 | 2258.4 | 2260.0 | 2262.2 | 2264.5  | 2264.5  | 2264.5  | 2265.6  | 2265.6  | 2266.2  | 2266.8  |
| 27.5° | 2243.6 | 2244.8 | 2246.4 | 2248.7 | 2251.5  | 2251.6  | 2251.5  | 2252.6  | 2252.6  | 2253.2  | 2254.4  |
| 30°   | 2245.3 | 2243.1 | 2244.8 | 2245.9 | 2247.6  | 2247.6  | 2247.0  | 2247.6  | 2248.2  | 2248.1  | 2248.7  |
| 32.5° | 2269.6 | 2264.6 | 2262.8 | 2262.3 | 2262.8  | 2261.1  | 2260.6  | 2259.4  | 2258.3  | 2258.3  | 2257.7  |
| 35°   | 2334.0 | 2326.1 | 2325.5 | 2321.0 | 2316.4  | 2312.0  | 2312.5  | 2309.1  | 2310.2  | 2307.4  | 2305.2  |
| 37.5° | 2466.1 | 2457.1 | 2462.8 | 2453.2 | 2447.0  | 2442.4  | 2437.3  | 2430.5  | 2426.6  | 2431.6  | 2431.7  |
| 40°   | 2702.7 | 2696.6 | 2694.9 | 2696.5 | 2690.9  | 2693.7  | 2681.3  | 2677.9  | 2670.6  | 2675.6  | 2682.4  |
| 42.5° | 3029.7 | 3025.8 | 3047.2 | 3051.2 | 3053.4  | 3056.8  | 3059.0  | 3040.4  | 3039.9  | 3035.9  | 3024.6  |
| 45°   | 3433.4 | 3457.2 | 3456.0 | 3482.0 | 3483.2  | 3475.2  | 3478.6  | 3470.2  | 3466.8  | 3454.4  | 3469.6  |
| 47.5° | 3848.6 | 3893.8 | 3910.6 | 3916.3 | 3937.8  | 3942.8  | 3922.5  | 3915.8  | 3927.6  | 3907.3  | 3910.1  |
| 50°   | 4294.1 | 4342.7 | 4382.2 | 4408.8 | 4424.0  | 4425.1  | 4409.9  | 4406.5  | 4417.2  | 4378.8  | 4396.9  |
| 52.5° | 4732.3 | 4805.8 | 4880.2 | 4919.8 | 4948.0  | 4950.4  | 4962.2  | 4948.0  | 4953.7  | 4944.6  | 4962.7  |
| 55°   | 5164.3 | 5291.4 | 5378.9 | 5456.3 | 5505.4  | 5547.8  | 5551.8  | 5567.0  | 5568.2  | 5586.8  | 5568.1  |
| 57.5° | 5586.8 | 5725.1 | 5877.6 | 6014.8 | 6091.0  | 6139.0  | 6184.2  | 6245.8  | 6259.3  | 6252.0  | 6263.8  |
| 60°   | 6085.4 | 6299.4 | 6506.7 | 6664.8 | 6796.4  | 6922.3  | 6990.1  | 7086.6  | 7101.8  | 7143.6  | 7107.5  |
| 62.5° | 6715.6 | 7026.2 | 7307.4 | 7520.4 | 7720.2  | 7916.2  | 8064.2  | 8138.8  | 8183.9  | 8271.4  | 8242.6  |
| 65°   | 7682.4 | 8055.2 | 8427.3 | 8732.2 | 9012.3  | 9245.6  | 9470.3  | 9577.6  | 9696.2  | 9820.4  | 9843.0  |
| 67.5° | 8478.6 | 8940.0 | 9359.6 | 9731.2 | 10070.6 | 10329.8 | 10563.6 | 10749.3 | 10894.0 | 10985.4 | 10992.8 |
| 69°   | 8514.8 | 8994.2 | 9450.0 | 9848.7 | 10202.8 | 10478.3 | 10724.6 | 10931.2 | 11071.8 | 11165.6 | 11190.4 |
| 70°   | 8342.0 | 8832.8 | 9318.4 | 9721.0 | 10083.6 | 10365.3 | 10626.2 | 10823.3 | 10980.4 | 11075.8 | 11109.1 |
| 72.5° | 7370.1 | 7894.2 | 8413.2 | 8766.1 | 9136.6  | 9472.0  | 9681.0  | 9882.0  | 10103.4 | 10132.2 | 10223.6 |
| 75°   | 5809.8 | 6250.3 | 6652.9 | 6922.9 | 7232.4  | 7533.4  | 7738.3  | 7791.4  | 7907.2  | 8052.8  | 8000.9  |
| 77.5° | 3366.8 | 3502.4 | 3762.2 | 3828.8 | 3772.3  | 3903.4  | 3946.8  | 3854.2  | 3849.6  | 3935.0  | 3765.5  |
| 80°   | 746.0  | 703.6  | 756.7  | 717.2  | 718.4   | 719.4   | 707.6   | 703.0   | 711.5   | 703.1   | 691.2   |
| 82.5° | 206.7  | 199.9  | 201.0  | 198.8  | 202.8   | 199.9   | 198.2   | 202.8   | 202.2   | 201.6   | 205.6   |
| 85°   | 99.4   | 98.3   | 96.6   | 96.0   | 93.8    | 90.9    | 86.4    | 86.4    | 88.6    | 85.3    | 87.0    |
| 87.5° | 13.0   | 12.4   | 12.4   | 14.7   | 13.0    | 10.8    | 10.8    | 10.8    | 10.2    | 10.2    | 10.2    |
| 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)