

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: P148030

Luminaire Tested: **AVM-E02-LED-E-U-5WQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P148030  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33675)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: AVM-E02-LED-E-U-5WQ  
Description: VISION SITE MEDIUM LED LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE  
Light Source: (42) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6367.6 lumens  
Efficiency: N/A  
Efficacy: 122.2 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G1

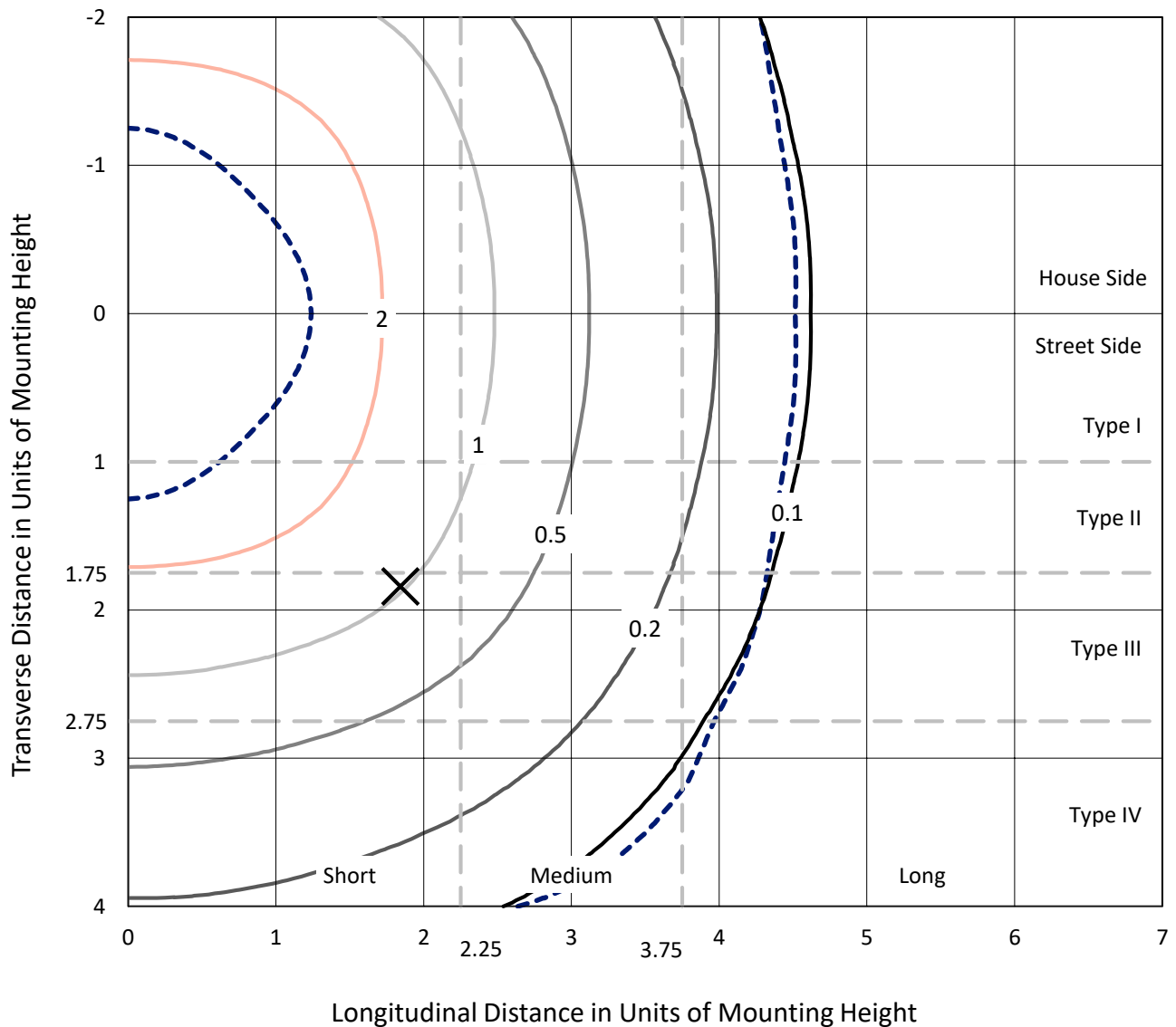
Input Watts (W): 52.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

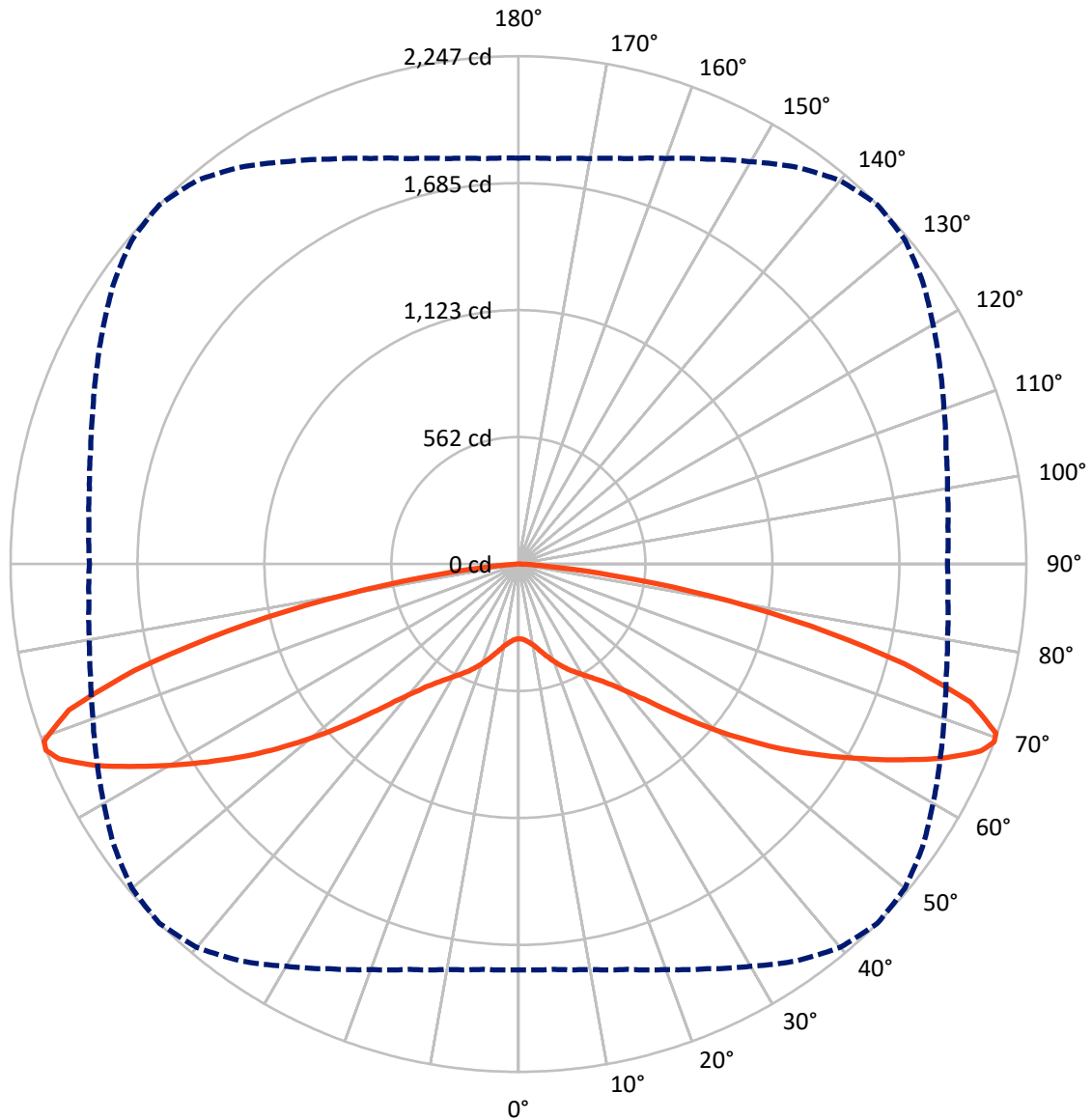


Based on 10 foot mounting height. Maximum calculated value = 3.8 fc  
 Type V - Short - Semi-Cutoff

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CATALOG NUMBER: AVM-E02-LED-E-U-5WQ

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 3183.8   | 0.0    | 3183.8 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 3183.8   | 0.0    | 3183.8 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 6367.6   | 0.0    | 6367.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 33.2   | 0.5       |
| 10°-20°   | 117.2  | 1.8       |
| 20°-30°   | 237.4  | 3.7       |
| 30°-40°   | 398.0  | 6.3       |
| 40°-50°   | 702.1  | 11.0      |
| 50°-60°   | 1238.1 | 19.4      |
| 60°-70°   | 1890.3 | 29.7      |
| 70°-80°   | 1579.5 | 24.8      |
| 80°-90°   | 171.6  | 2.7       |
| 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°    | 6367.6 | 100.0     |
| 0°-180°   | 6367.6 | 100.0     |



REPORT NUMBER: P148030

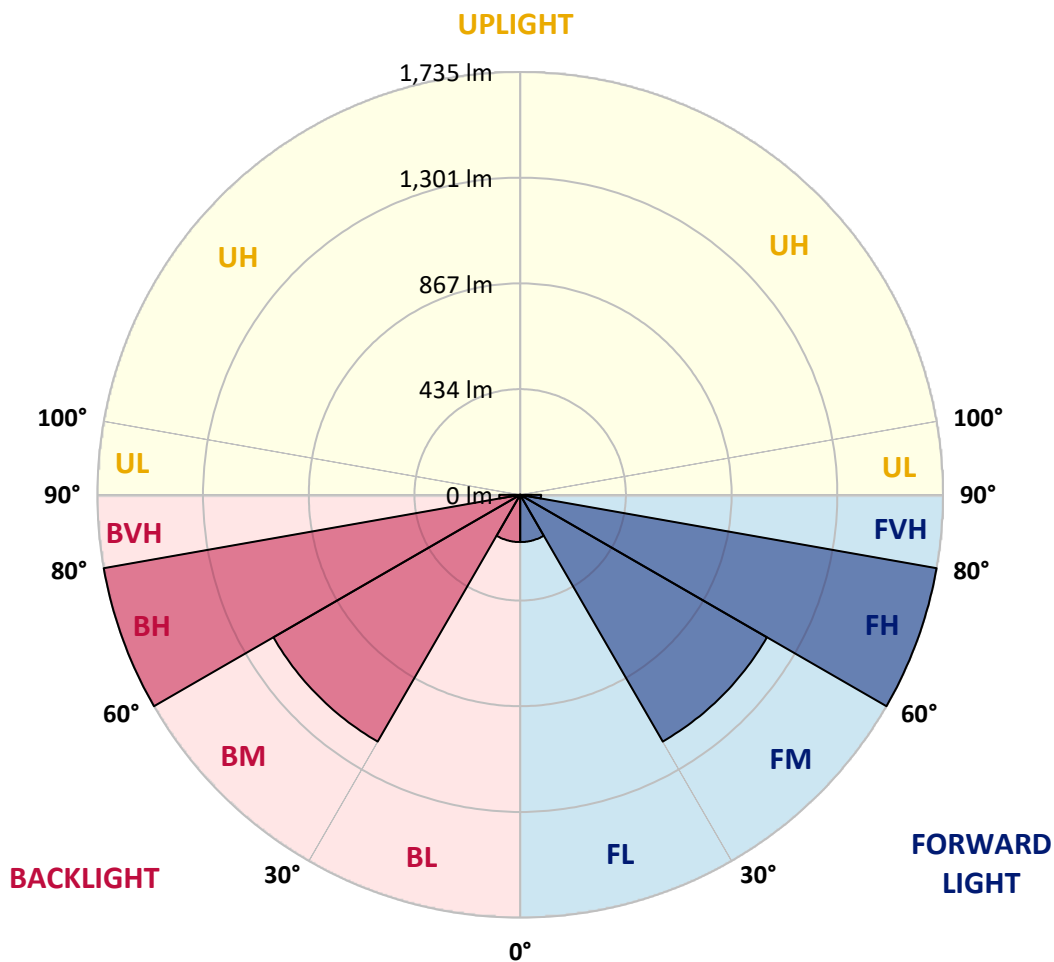
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 193.9  | 3.0       |                         |      |         |
| FM (30°-60°)   | 1169.1 | 18.4      |                         |      |         |
| FH (60°-80°)   | 1734.9 | 27.2      |                         |      | G1/1800 |
| FVH (80°-90°)  | 85.8   | 1.3       |                         |      | G1/100  |
| BL (0°-30°)    | 193.9  | 3.0       | B1/500                  |      |         |
| BM (30°-60°)   | 1169.1 | 18.4      | B2/2500                 |      |         |
| BH (60°-80°)   | 1734.9 | 27.2      | B3/2500                 |      | G1/1800 |
| BVH (80°-90°)  | 85.8   | 1.3       |                         |      | 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 Short





REPORT NUMBER: P148030

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 330.7  | 330.7  | 330.7  | 330.7  | 330.7  | 330.7  | 330.7  | 330.7  | 330.7  | 330.7  | 330.7  |
| 2.5°  | 333.3  | 334.0  | 333.3  | 333.3  | 333.3  | 333.3  | 333.3  | 332.7  | 332.7  | 332.7  | 333.3  |
| 5°    | 340.0  | 340.7  | 340.0  | 340.7  | 340.7  | 340.7  | 340.7  | 340.0  | 340.0  | 340.0  | 340.0  |
| 7.5°  | 350.7  | 350.7  | 350.7  | 351.3  | 350.7  | 350.7  | 351.3  | 350.7  | 350.7  | 350.7  | 350.7  |
| 10°   | 366.0  | 365.3  | 365.3  | 365.3  | 365.3  | 365.3  | 366.0  | 366.0  | 366.0  | 365.3  | 365.3  |
| 12.5° | 384.7  | 384.0  | 384.7  | 384.7  | 385.3  | 385.3  | 385.3  | 385.3  | 385.3  | 385.3  | 384.7  |
| 15°   | 407.3  | 407.3  | 407.3  | 408.0  | 409.3  | 409.3  | 408.7  | 409.3  | 409.3  | 409.3  | 409.3  |
| 17.5° | 432.7  | 434.0  | 432.7  | 433.3  | 434.0  | 433.3  | 434.7  | 435.3  | 436.0  | 435.3  | 433.3  |
| 20°   | 458.7  | 459.3  | 459.3  | 459.3  | 459.3  | 460.7  | 461.3  | 461.3  | 463.3  | 462.7  | 462.0  |
| 22.5° | 483.3  | 484.7  | 484.7  | 485.3  | 485.3  | 487.3  | 487.3  | 487.3  | 488.7  | 490.0  | 488.7  |
| 25°   | 509.3  | 508.7  | 508.7  | 510.0  | 510.7  | 513.3  | 513.3  | 514.7  | 516.7  | 517.3  | 516.0  |
| 27.5° | 532.7  | 532.0  | 532.0  | 534.0  | 534.7  | 538.0  | 538.0  | 540.7  | 542.0  | 542.7  | 541.3  |
| 30°   | 557.3  | 557.3  | 556.7  | 558.7  | 560.7  | 563.3  | 564.7  | 567.3  | 569.3  | 570.0  | 568.7  |
| 32.5° | 586.7  | 585.3  | 586.0  | 587.3  | 588.7  | 591.3  | 593.3  | 596.7  | 599.3  | 600.0  | 598.7  |
| 35°   | 620.0  | 618.0  | 618.7  | 620.0  | 622.0  | 626.0  | 629.3  | 631.3  | 635.3  | 636.7  | 634.0  |
| 37.5° | 656.7  | 657.3  | 656.7  | 660.0  | 663.3  | 668.0  | 672.0  | 674.7  | 678.7  | 680.7  | 678.7  |
| 40°   | 708.7  | 706.7  | 708.7  | 712.0  | 717.3  | 723.3  | 731.3  | 733.3  | 737.3  | 741.3  | 736.7  |
| 42.5° | 776.0  | 774.7  | 779.3  | 782.0  | 788.0  | 794.7  | 804.7  | 810.0  | 816.0  | 818.7  | 814.7  |
| 45°   | 864.0  | 864.0  | 869.3  | 870.0  | 879.3  | 888.0  | 902.0  | 908.7  | 920.0  | 920.0  | 920.0  |
| 47.5° | 961.3  | 965.3  | 968.7  | 975.3  | 982.0  | 998.0  | 1012.0 | 1026.7 | 1037.3 | 1038.7 | 1036.7 |
| 50°   | 1062.0 | 1066.0 | 1076.0 | 1085.3 | 1100.0 | 1120.0 | 1135.3 | 1154.7 | 1164.0 | 1172.0 | 1169.3 |
| 52.5° | 1173.3 | 1174.0 | 1186.0 | 1198.0 | 1219.3 | 1241.3 | 1266.0 | 1286.0 | 1302.7 | 1310.0 | 1304.0 |
| 55°   | 1295.3 | 1296.7 | 1307.3 | 1320.0 | 1344.0 | 1369.3 | 1400.0 | 1420.7 | 1442.0 | 1455.3 | 1445.3 |
| 57.5° | 1427.3 | 1428.0 | 1438.7 | 1454.0 | 1482.7 | 1508.0 | 1537.3 | 1566.7 | 1586.7 | 1598.7 | 1592.0 |
| 60°   | 1573.3 | 1576.7 | 1584.7 | 1604.0 | 1631.3 | 1658.0 | 1687.3 | 1713.3 | 1736.7 | 1749.3 | 1742.7 |
| 62.5° | 1729.3 | 1732.7 | 1744.0 | 1759.3 | 1783.3 | 1812.7 | 1840.7 | 1874.0 | 1893.3 | 1907.3 | 1897.3 |
| 65°   | 1834.0 | 1840.0 | 1858.0 | 1878.7 | 1914.0 | 1952.0 | 1984.7 | 2030.0 | 2053.3 | 2070.0 | 2060.7 |
| 67.5° | 1840.7 | 1844.0 | 1866.0 | 1897.3 | 1944.7 | 2002.0 | 2068.7 | 2139.3 | 2185.3 | 2207.3 | 2191.3 |
| 69°   | 1795.3 | 1800.0 | 1821.3 | 1856.7 | 1909.3 | 1976.0 | 2055.3 | 2143.3 | 2214.0 | 2246.7 | 2231.3 |
| 70°   | 1744.0 | 1754.0 | 1777.3 | 1816.0 | 1867.3 | 1937.3 | 2019.3 | 2113.3 | 2196.0 | 2240.7 | 2229.3 |
| 72.5° | 1636.0 | 1638.7 | 1654.0 | 1684.7 | 1724.0 | 1782.0 | 1859.3 | 1948.0 | 2026.7 | 2090.7 | 2100.0 |
| 75°   | 1452.0 | 1460.7 | 1472.0 | 1492.7 | 1512.7 | 1554.7 | 1606.7 | 1667.3 | 1713.3 | 1762.7 | 1764.7 |
| 77.5° | 1097.3 | 1123.3 | 1132.0 | 1136.7 | 1145.3 | 1178.7 | 1224.0 | 1276.7 | 1314.7 | 1322.7 | 1321.3 |
| 80°   | 492.7  | 527.3  | 535.3  | 573.3  | 596.7  | 652.0  | 721.3  | 802.0  | 856.0  | 862.0  | 847.3  |
| 82.5° | 96.7   | 103.3  | 120.7  | 150.7  | 205.3  | 238.0  | 283.3  | 340.0  | 392.0  | 422.0  | 404.0  |
| 85°   | 32.0   | 34.0   | 39.3   | 43.3   | 50.0   | 56.7   | 68.7   | 85.3   | 106.0  | 117.3  | 104.7  |
| 87.5° | 12.7   | 12.7   | 14.7   | 16.0   | 17.3   | 17.3   | 17.3   | 16.0   | 15.3   | 12.7   | 11.3   |
| 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: P148030

CATALOG NUMBER: AVM-E02-LED-E-U-5WQ

**CANDELA DISTRIBUTION (continued):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 330.7  | 330.7  | 330.7  | 330.7  | 330.7  | 330.7  | 330.7  | 330.7  |
| 2.5°  | 332.7  | 332.7  | 332.7  | 332.7  | 332.7  | 332.7  | 332.7  | 332.7  |
| 5°    | 340.0  | 339.3  | 339.3  | 338.7  | 338.7  | 338.7  | 338.7  | 338.7  |
| 7.5°  | 350.0  | 349.3  | 348.7  | 349.3  | 348.7  | 348.7  | 348.7  | 348.7  |
| 10°   | 365.3  | 364.0  | 363.3  | 362.7  | 362.7  | 362.7  | 362.0  | 362.0  |
| 12.5° | 383.3  | 383.3  | 382.7  | 382.0  | 380.7  | 381.3  | 380.7  | 379.3  |
| 15°   | 408.0  | 406.7  | 406.0  | 405.3  | 404.0  | 404.0  | 404.0  | 403.3  |
| 17.5° | 432.7  | 431.3  | 431.3  | 429.3  | 428.7  | 428.7  | 428.7  | 429.3  |
| 20°   | 460.0  | 458.0  | 456.7  | 455.3  | 454.0  | 454.7  | 453.3  | 454.7  |
| 22.5° | 487.3  | 484.7  | 483.3  | 481.3  | 479.3  | 479.3  | 478.7  | 477.3  |
| 25°   | 514.0  | 510.7  | 509.3  | 507.3  | 504.7  | 504.7  | 503.3  | 502.0  |
| 27.5° | 539.3  | 536.0  | 534.7  | 530.7  | 528.0  | 527.3  | 526.0  | 525.3  |
| 30°   | 567.3  | 563.3  | 561.3  | 557.3  | 553.3  | 552.7  | 550.7  | 550.7  |
| 32.5° | 596.7  | 592.7  | 591.3  | 585.3  | 582.0  | 582.0  | 580.7  | 579.3  |
| 35°   | 633.3  | 627.3  | 626.0  | 620.0  | 615.3  | 615.3  | 614.0  | 614.7  |
| 37.5° | 676.7  | 672.0  | 667.3  | 662.7  | 657.3  | 656.7  | 655.3  | 654.0  |
| 40°   | 734.7  | 729.3  | 724.0  | 717.3  | 712.7  | 711.3  | 709.3  | 708.7  |
| 42.5° | 812.0  | 806.7  | 796.0  | 790.7  | 786.0  | 782.0  | 781.3  | 780.7  |
| 45°   | 910.7  | 904.0  | 896.7  | 886.7  | 880.7  | 872.0  | 870.7  | 867.3  |
| 47.5° | 1029.3 | 1016.7 | 1004.0 | 995.3  | 986.0  | 976.0  | 974.0  | 968.7  |
| 50°   | 1155.3 | 1145.3 | 1124.0 | 1110.0 | 1095.3 | 1085.3 | 1078.7 | 1076.7 |
| 52.5° | 1290.7 | 1272.0 | 1250.7 | 1232.0 | 1210.7 | 1197.3 | 1185.3 | 1182.0 |
| 55°   | 1432.0 | 1405.3 | 1378.7 | 1356.7 | 1335.3 | 1319.3 | 1308.0 | 1302.7 |
| 57.5° | 1573.3 | 1544.0 | 1514.7 | 1490.7 | 1472.7 | 1452.0 | 1440.7 | 1438.0 |
| 60°   | 1720.7 | 1692.7 | 1662.7 | 1638.7 | 1616.7 | 1598.7 | 1592.0 | 1579.3 |
| 62.5° | 1876.7 | 1847.3 | 1819.3 | 1796.0 | 1768.0 | 1755.3 | 1744.0 | 1736.7 |
| 65°   | 2030.0 | 1996.0 | 1960.7 | 1936.0 | 1908.0 | 1890.0 | 1876.0 | 1866.0 |
| 67.5° | 2148.7 | 2097.3 | 2050.0 | 2008.7 | 1970.7 | 1942.7 | 1924.7 | 1915.3 |
| 69°   | 2182.0 | 2118.0 | 2057.3 | 2003.3 | 1958.7 | 1927.3 | 1907.3 | 1898.0 |
| 70°   | 2178.0 | 2107.3 | 2040.7 | 1981.3 | 1932.7 | 1899.3 | 1880.0 | 1862.7 |
| 72.5° | 2054.7 | 1990.0 | 1916.0 | 1851.3 | 1807.3 | 1775.3 | 1756.0 | 1746.7 |
| 75°   | 1753.3 | 1710.0 | 1656.7 | 1606.7 | 1574.7 | 1556.0 | 1532.0 | 1532.7 |
| 77.5° | 1276.7 | 1278.0 | 1242.0 | 1190.7 | 1154.7 | 1148.0 | 1137.3 | 1126.7 |
| 80°   | 792.0  | 728.7  | 687.3  | 632.0  | 591.3  | 556.0  | 540.7  | 507.3  |
| 82.5° | 365.3  | 285.3  | 221.3  | 167.3  | 128.7  | 100.7  | 88.0   | 72.0   |
| 85°   | 81.3   | 62.0   | 51.3   | 41.3   | 35.3   | 32.7   | 26.7   | 24.7   |
| 87.5° | 11.3   | 10.0   | 9.3    | 8.7    | 7.3    | 5.3    | 4.0    | 3.3    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)