

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: P148610

Luminaire Tested: **AVS-E02-LED-E-U-5XQ**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P148610  
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: AVS-E02-LED-E-U-5XQ  
Description: VISION SITE SMALL LED LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE  
Light Source: (42) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 6360.8 lumens  
Efficiency: N/A  
Efficacy: 122.1 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G2

Input Watts (W): 52.1  
Input Voltage (V): NR  
Input Current (Ain): 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



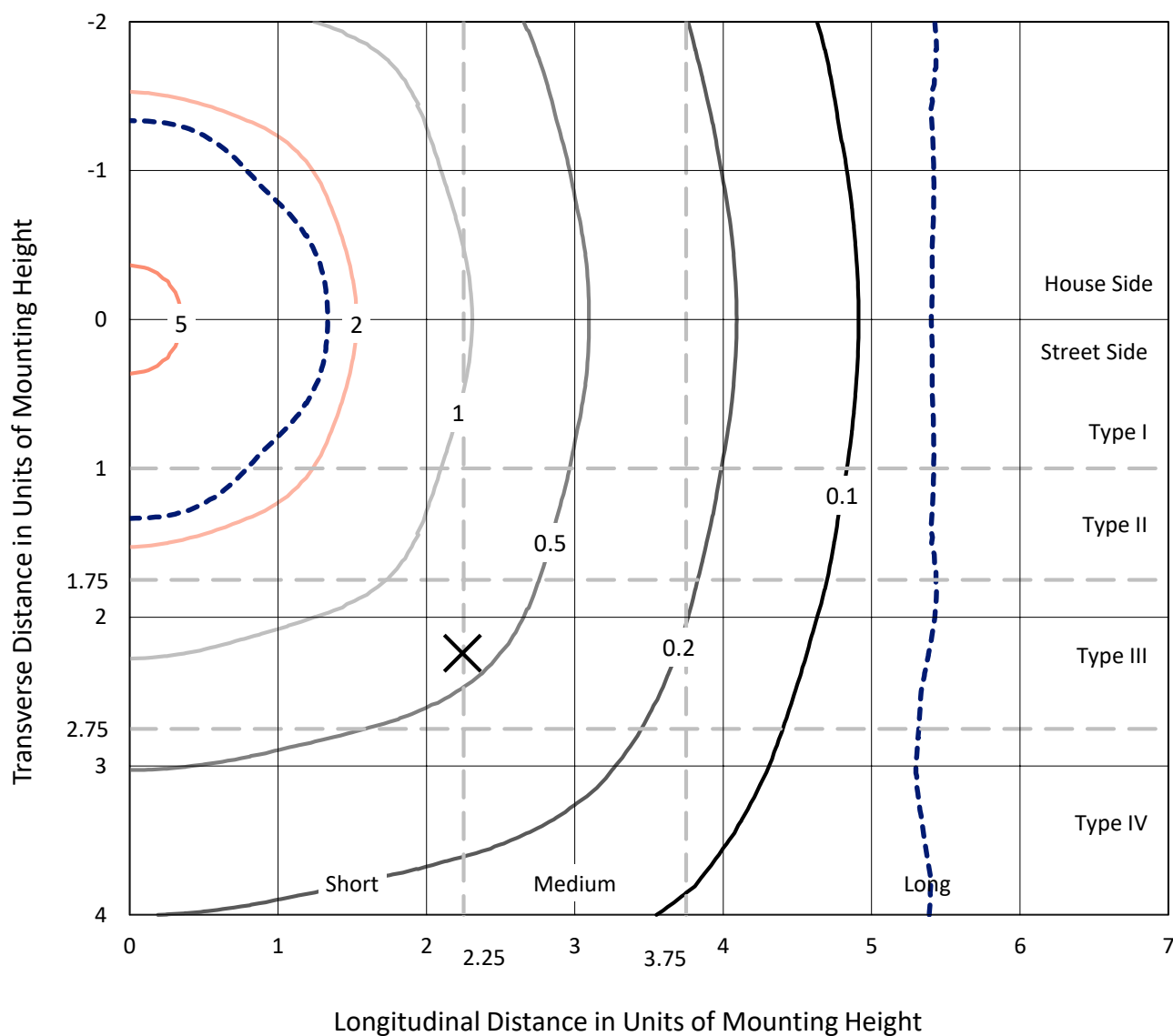
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

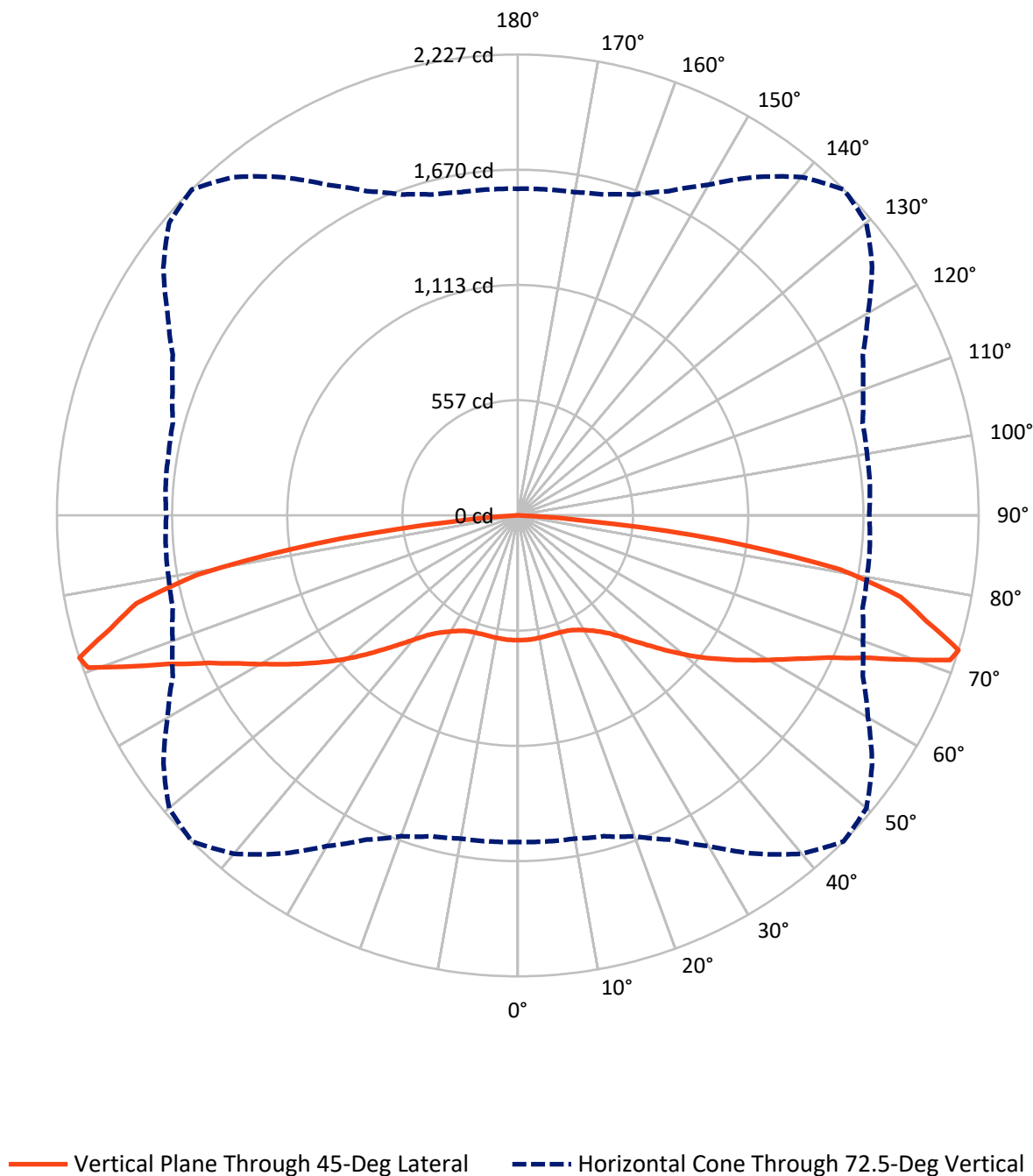


Based on 10 foot mounting height. Maximum calculated value = 6 fc  
 Type V - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 3180.4   | 0.0    | 3180.4 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 3180.4   | 0.0    | 3180.4 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 6360.8   | 0.0    | 6360.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 57.4   | 0.9       |
| 10°-20°   | 169.9  | 2.7       |
| 20°-30°   | 284.5  | 4.5       |
| 30°-40°   | 433.7  | 6.8       |
| 40°-50°   | 692.6  | 10.9      |
| 50°-60°   | 1064.9 | 16.7      |
| 60°-70°   | 1550.5 | 24.4      |
| 70°-80°   | 1746.6 | 27.5      |
| 80°-90°   | 360.6  | 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°    | 6360.8 | 100.0     |
| 0°-180°   | 6360.8 | 100.0     |

**Coefficient of Utilization**



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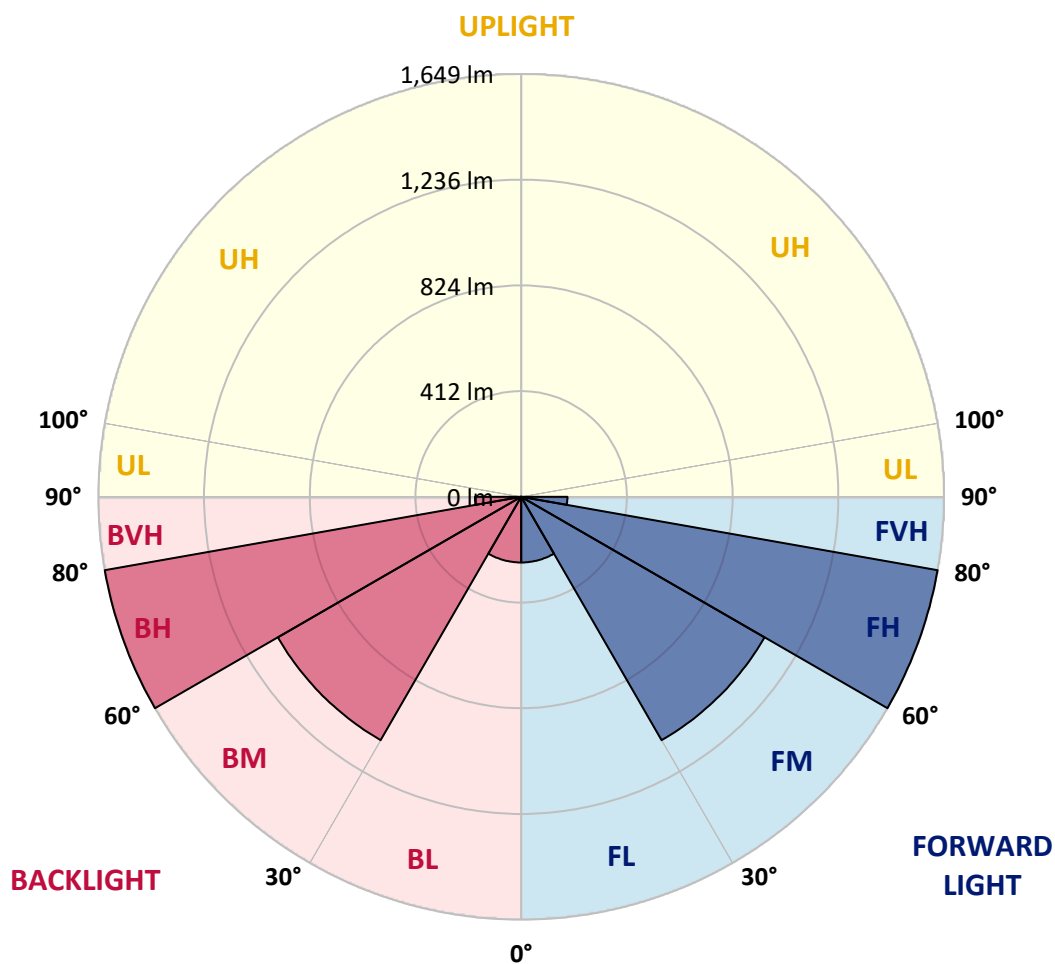
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 255.9  | 4.0       |                         |      |         |
| FM   | (30°-60°)   | 1095.6 | 17.2      |                         |      |         |
| FH   | (60°-80°)   | 1648.6 | 25.9      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 180.3  | 2.8       |                         |      | G2/225  |
| BL   | (0°-30°)    | 255.9  | 4.0       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1095.6 | 17.2      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1648.6 | 25.9      | B3/2500                 |      | G1/1800 |
| BVH  | (80°-90°)   | 180.3  | 2.8       |                         |      | G2/225  |
| 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 Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 602.7  | 602.7  | 602.7  | 602.7  | 602.7  | 602.7  | 602.7  | 602.7  | 602.7  | 602.7  | 602.7  |
| 2.5°  | 603.7  | 603.9  | 603.8  | 603.5  | 603.6  | 603.5  | 603.1  | 603.0  | 601.9  | 602.5  | 603.5  |
| 5°    | 603.6  | 603.3  | 603.2  | 603.0  | 603.0  | 603.5  | 603.0  | 602.5  | 602.3  | 602.7  | 602.2  |
| 7.5°  | 603.3  | 602.7  | 602.4  | 602.2  | 602.3  | 602.5  | 602.0  | 601.3  | 601.9  | 601.3  | 600.6  |
| 10°   | 602.3  | 601.9  | 602.0  | 601.3  | 601.5  | 601.3  | 600.6  | 600.2  | 600.5  | 600.0  | 599.2  |
| 12.5° | 602.7  | 601.9  | 601.7  | 601.3  | 601.1  | 601.0  | 600.2  | 599.4  | 599.5  | 599.2  | 598.3  |
| 15°   | 602.7  | 602.2  | 602.0  | 601.3  | 601.1  | 600.8  | 599.8  | 599.5  | 599.5  | 599.1  | 598.0  |
| 17.5° | 603.0  | 602.7  | 602.7  | 601.9  | 601.5  | 601.3  | 600.2  | 599.7  | 600.2  | 599.2  | 598.5  |
| 20°   | 604.0  | 603.7  | 603.8  | 603.3  | 602.7  | 602.7  | 601.9  | 601.5  | 601.7  | 601.5  | 599.7  |
| 22.5° | 606.0  | 606.0  | 606.3  | 606.2  | 606.0  | 606.2  | 605.5  | 605.5  | 605.7  | 605.6  | 604.1  |
| 25°   | 611.6  | 611.5  | 611.8  | 611.8  | 612.0  | 613.2  | 612.6  | 612.4  | 613.3  | 613.4  | 611.8  |
| 27.5° | 622.4  | 622.0  | 622.3  | 622.6  | 623.5  | 625.1  | 624.7  | 625.2  | 626.5  | 626.1  | 624.9  |
| 30°   | 634.6  | 634.4  | 635.2  | 636.2  | 636.9  | 639.2  | 638.1  | 640.6  | 641.9  | 642.8  | 641.9  |
| 32.5° | 652.6  | 652.6  | 654.2  | 654.8  | 656.4  | 658.7  | 659.0  | 661.0  | 662.5  | 664.1  | 663.0  |
| 35°   | 676.7  | 676.4  | 677.5  | 678.7  | 680.5  | 682.7  | 683.5  | 686.2  | 688.5  | 689.6  | 687.5  |
| 37.5° | 713.3  | 711.5  | 713.7  | 714.3  | 715.9  | 716.3  | 718.7  | 722.1  | 724.5  | 724.1  | 722.7  |
| 40°   | 763.0  | 762.7  | 761.9  | 760.8  | 763.1  | 763.9  | 763.9  | 768.5  | 772.5  | 771.8  | 771.7  |
| 42.5° | 820.9  | 819.5  | 818.4  | 818.4  | 819.8  | 820.2  | 825.3  | 828.7  | 831.5  | 832.2  | 831.5  |
| 45°   | 883.3  | 881.9  | 882.2  | 881.5  | 882.0  | 884.1  | 887.2  | 893.3  | 898.7  | 898.9  | 896.0  |
| 47.5° | 950.3  | 945.7  | 949.3  | 944.1  | 947.4  | 949.0  | 956.5  | 965.5  | 974.8  | 976.5  | 974.0  |
| 50°   | 1018.3 | 1017.8 | 1017.5 | 1016.5 | 1018.0 | 1021.7 | 1030.9 | 1045.0 | 1054.0 | 1060.0 | 1056.0 |
| 52.5° | 1092.6 | 1090.2 | 1089.0 | 1087.4 | 1088.8 | 1096.0 | 1108.8 | 1121.1 | 1137.3 | 1144.1 | 1138.7 |
| 55°   | 1165.0 | 1164.1 | 1159.8 | 1159.7 | 1162.9 | 1174.0 | 1188.0 | 1203.2 | 1220.7 | 1228.3 | 1226.3 |
| 57.5° | 1239.4 | 1234.5 | 1233.2 | 1231.1 | 1237.5 | 1248.0 | 1265.2 | 1292.5 | 1310.7 | 1319.4 | 1314.4 |
| 60°   | 1312.0 | 1308.4 | 1305.5 | 1304.9 | 1309.1 | 1323.8 | 1348.5 | 1381.3 | 1403.8 | 1415.1 | 1407.2 |
| 62.5° | 1390.1 | 1387.7 | 1384.4 | 1380.5 | 1389.6 | 1408.5 | 1439.2 | 1475.4 | 1508.7 | 1522.7 | 1510.5 |
| 65°   | 1486.9 | 1482.2 | 1478.5 | 1473.7 | 1481.1 | 1504.9 | 1543.3 | 1594.5 | 1639.0 | 1655.3 | 1646.6 |
| 67.5° | 1589.3 | 1584.9 | 1585.2 | 1582.2 | 1595.5 | 1628.4 | 1678.0 | 1747.6 | 1807.2 | 1835.0 | 1818.7 |
| 70°   | 1678.7 | 1681.1 | 1681.9 | 1694.0 | 1717.0 | 1767.0 | 1849.6 | 1958.5 | 2049.0 | 2091.5 | 2074.0 |
| 71°   | 1652.3 | 1657.8 | 1666.3 | 1679.0 | 1718.7 | 1777.8 | 1890.7 | 2022.5 | 2130.5 | 2202.5 | 2178.3 |
| 72.5° | 1577.6 | 1580.9 | 1585.3 | 1604.7 | 1649.5 | 1727.9 | 1843.9 | 1994.6 | 2133.5 | 2226.6 | 2198.7 |
| 75°   | 1469.6 | 1472.8 | 1474.4 | 1487.9 | 1528.7 | 1597.0 | 1703.3 | 1837.0 | 1959.5 | 2038.9 | 2031.0 |
| 77.5° | 1306.6 | 1307.2 | 1318.9 | 1339.7 | 1385.5 | 1463.6 | 1575.6 | 1714.4 | 1829.5 | 1891.2 | 1852.0 |
| 80°   | 938.3  | 932.0  | 944.0  | 970.8  | 1027.6 | 1117.2 | 1231.8 | 1390.2 | 1517.9 | 1575.6 | 1515.0 |
| 82.5° | 357.0  | 376.4  | 406.8  | 451.2  | 470.4  | 570.1  | 677.0  | 770.1  | 877.7  | 997.9  | 967.9  |
| 85°   | 38.3   | 43.1   | 54.2   | 67.2   | 84.8   | 117.3  | 162.2  | 221.3  | 272.8  | 320.6  | 284.7  |
| 87.5° | 14.3   | 14.7   | 16.4   | 18.9   | 19.2   | 20.0   | 21.3   | 24.9   | 23.2   | 20.0   | 16.2   |
| 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: P148610

CATALOG NUMBER: AVS-E02-LED-E-U-5XQ

**CANDELA DISTRIBUTION (continued):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 602.7  | 602.7  | 602.7  | 602.7  | 602.7  | 602.7  | 602.7  | 602.7  |
| 2.5°  | 602.7  | 602.8  | 602.7  | 602.8  | 602.8  | 602.2  | 602.3  | 602.0  |
| 5°    | 602.5  | 602.0  | 602.2  | 602.3  | 602.2  | 602.5  | 602.0  | 602.3  |
| 7.5°  | 601.7  | 600.7  | 601.0  | 601.0  | 600.7  | 601.1  | 600.8  | 600.7  |
| 10°   | 600.0  | 598.7  | 599.3  | 599.0  | 598.9  | 599.1  | 599.0  | 599.0  |
| 12.5° | 598.5  | 597.7  | 597.8  | 597.7  | 597.5  | 598.0  | 597.8  | 598.0  |
| 15°   | 598.1  | 596.9  | 596.7  | 596.3  | 596.5  | 596.9  | 596.9  | 597.3  |
| 17.5° | 597.8  | 596.2  | 596.0  | 595.6  | 595.9  | 596.5  | 596.7  | 596.3  |
| 20°   | 598.9  | 597.5  | 597.2  | 596.9  | 596.7  | 597.5  | 597.3  | 597.3  |
| 22.5° | 603.5  | 601.9  | 601.7  | 600.3  | 599.8  | 600.3  | 600.0  | 600.0  |
| 25°   | 611.0  | 609.0  | 608.3  | 606.5  | 605.2  | 605.2  | 604.7  | 604.4  |
| 27.5° | 624.5  | 621.6  | 620.8  | 619.3  | 617.5  | 617.8  | 616.8  | 616.7  |
| 30°   | 640.2  | 637.5  | 635.1  | 633.0  | 630.9  | 630.1  | 628.8  | 628.6  |
| 32.5° | 660.7  | 657.6  | 654.8  | 652.1  | 649.1  | 648.0  | 646.0  | 645.0  |
| 35°   | 685.8  | 681.9  | 678.5  | 676.7  | 673.7  | 672.1  | 670.8  | 672.3  |
| 37.5° | 721.0  | 716.2  | 714.5  | 712.3  | 710.3  | 708.0  | 708.5  | 708.0  |
| 40°   | 769.6  | 765.4  | 763.6  | 759.8  | 759.4  | 756.7  | 758.3  | 756.7  |
| 42.5° | 829.8  | 821.8  | 820.7  | 817.6  | 816.7  | 815.2  | 815.9  | 814.7  |
| 45°   | 895.3  | 888.2  | 886.8  | 882.0  | 882.2  | 878.7  | 880.0  | 880.0  |
| 47.5° | 969.0  | 961.6  | 955.3  | 951.8  | 950.5  | 948.4  | 949.5  | 949.3  |
| 50°   | 1045.0 | 1034.8 | 1028.0 | 1021.1 | 1018.1 | 1019.1 | 1016.7 | 1020.7 |
| 52.5° | 1126.6 | 1111.5 | 1101.9 | 1095.3 | 1089.6 | 1090.8 | 1091.2 | 1092.3 |
| 55°   | 1211.2 | 1191.8 | 1177.8 | 1169.3 | 1164.1 | 1164.5 | 1166.0 | 1167.3 |
| 57.5° | 1296.2 | 1272.0 | 1253.1 | 1240.3 | 1237.0 | 1238.5 | 1238.5 | 1238.3 |
| 60°   | 1384.4 | 1355.3 | 1330.8 | 1316.5 | 1313.5 | 1312.6 | 1319.2 | 1317.0 |
| 62.5° | 1479.0 | 1444.1 | 1418.9 | 1400.5 | 1396.2 | 1399.2 | 1405.0 | 1403.7 |
| 65°   | 1604.6 | 1556.4 | 1523.7 | 1505.5 | 1498.1 | 1501.1 | 1509.0 | 1508.6 |
| 67.5° | 1766.3 | 1699.1 | 1655.9 | 1632.5 | 1627.2 | 1630.9 | 1635.1 | 1639.4 |
| 70°   | 2008.3 | 1912.2 | 1850.6 | 1800.0 | 1778.3 | 1774.2 | 1778.4 | 1778.7 |
| 71°   | 2093.5 | 1983.0 | 1884.9 | 1823.2 | 1787.7 | 1772.6 | 1773.9 | 1766.3 |
| 72.5° | 2089.9 | 1953.8 | 1839.0 | 1774.5 | 1725.2 | 1713.2 | 1707.4 | 1698.2 |
| 75°   | 1949.2 | 1826.5 | 1726.8 | 1656.5 | 1609.0 | 1594.8 | 1584.5 | 1584.0 |
| 77.5° | 1767.7 | 1677.2 | 1567.4 | 1492.8 | 1435.0 | 1411.5 | 1400.9 | 1400.6 |
| 80°   | 1421.0 | 1285.5 | 1205.2 | 1160.3 | 1090.6 | 1070.3 | 1049.0 | 1041.0 |
| 82.5° | 859.3  | 671.5  | 546.0  | 485.2  | 451.5  | 371.8  | 333.7  | 315.6  |
| 85°   | 200.2  | 142.2  | 98.0   | 64.4   | 46.3   | 36.9   | 28.4   | 25.1   |
| 87.5° | 13.5   | 10.7   | 9.5    | 7.7    | 5.8    | 5.6    | 3.5    | 3.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)