

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: P198738

Luminaire Tested: **XNV-AF-01-LED-U-SLL-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198738  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24264)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: XNV-AF-01-LED-U-SLL-600  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3599.8 lumens  
Efficiency: N/A  
Efficacy: 105.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G1

Input Watts (W): 34  
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

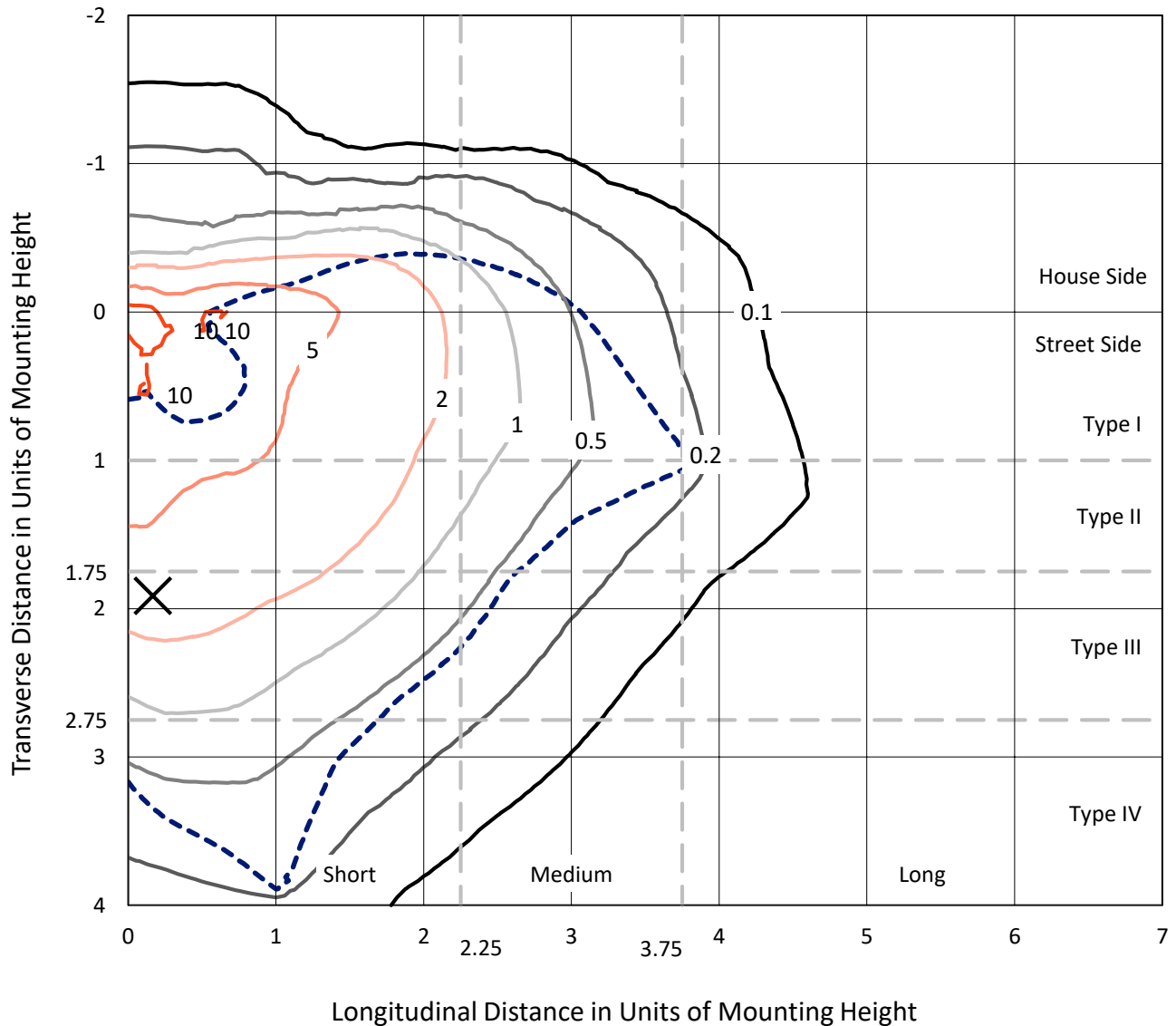


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

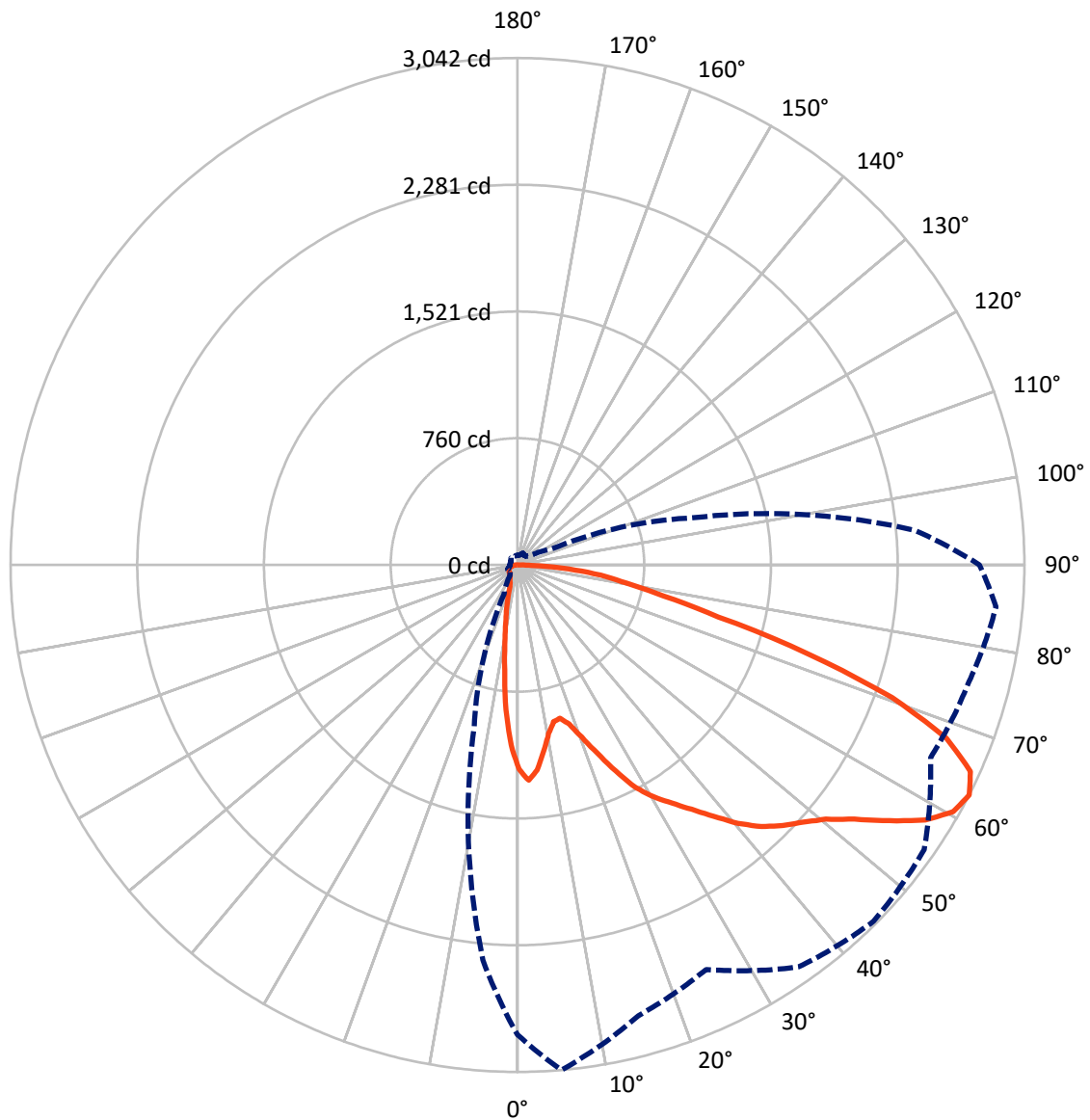


Based on 10 foot mounting height. Maximum calculated value = 14.1 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 5-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 637.7    | 0.0    | 637.7  |
|                    | % Fixture | 17.7     | 0.0    | 17.7   |
| <b>Street Side</b> | Lumens    | 2962.1   | 0.0    | 2962.1 |
|                    | % Fixture | 82.3     | 0.0    | 82.3   |
| <b>Total</b>       | Lumens    | 3599.8   | 0.0    | 3599.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 89.2   | 2.5       |
| 10°-20°   | 163.0  | 4.5       |
| 20°-30°   | 234.5  | 6.5       |
| 30°-40°   | 359.1  | 10.0      |
| 40°-50°   | 525.0  | 14.6      |
| 50°-60°   | 763.9  | 21.2      |
| 60°-70°   | 885.1  | 24.6      |
| 70°-80°   | 461.4  | 12.8      |
| 80°-90°   | 118.6  | 3.3       |
| 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°    | 3599.8 | 100.0     |
| 0°-180°   | 3599.8 | 100.0     |



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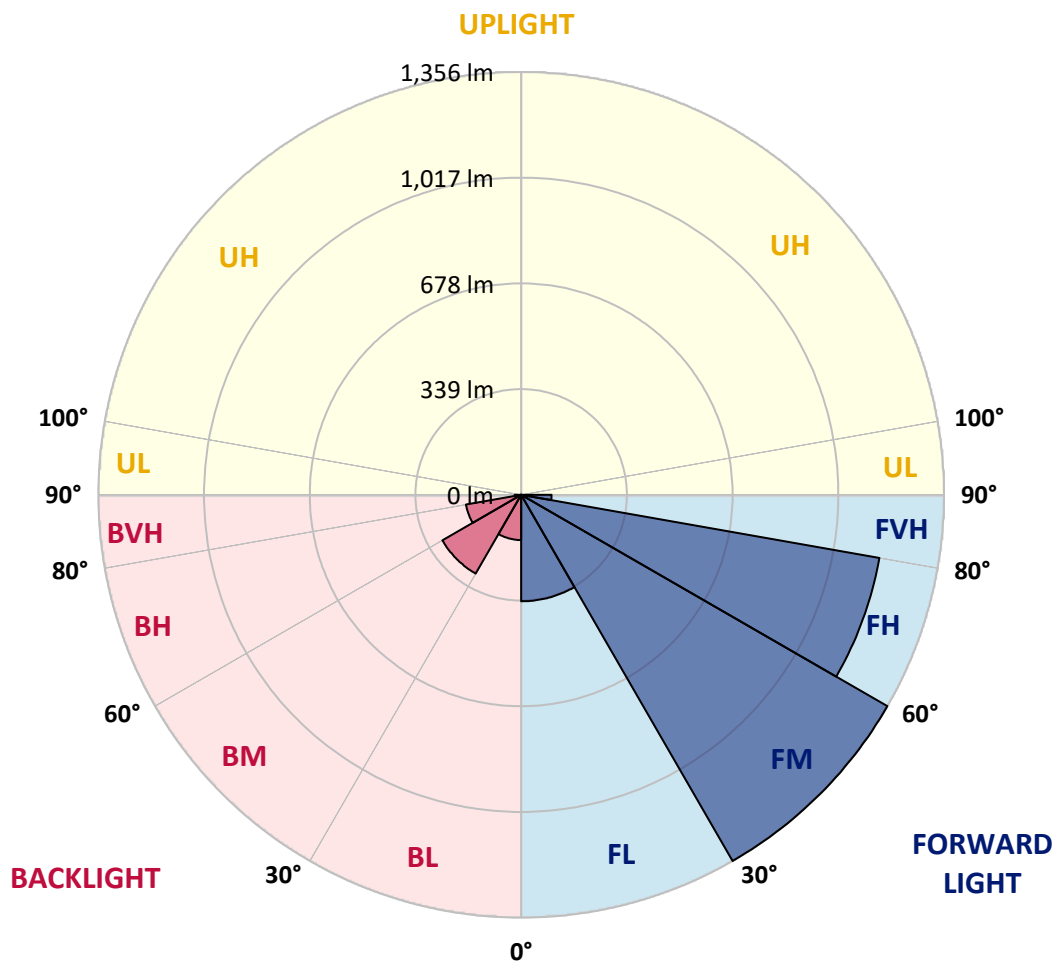
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 341.6  | 9.5       |                         |      |         |
| FM   | (30°-60°)   | 1356.2 | 37.7      |                         |      |         |
| FH   | (60°-80°)   | 1166.6 | 32.4      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 97.6   | 2.7       |                         |      | G1/100  |
| BL   | (0°-30°)    | 145.1  | 4.0       | B1/500                  |      |         |
| BM   | (30°-60°)   | 291.8  | 8.1       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 179.8  | 5.0       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 21.0   | 0.6       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1227.2 | 1227.2 | 1227.2 | 1227.2 | 1227.2 | 1227.2 | 1227.2 | 1227.2 | 1227.2 | 1227.2 | 1227.2 |
| 2.5°  | 1266.9 | 1293.8 | 1324.6 | 1364.8 | 1392.1 | 1403.2 | 1412.3 | 1396.8 | 1382.0 | 1354.1 | 1344.2 |
| 5°    | 1183.3 | 1235.1 | 1319.9 | 1400.5 | 1471.5 | 1512.2 | 1524.8 | 1496.4 | 1445.7 | 1372.6 | 1334.0 |
| 7.5°  | 1059.4 | 1127.5 | 1246.8 | 1365.5 | 1467.3 | 1535.2 | 1540.2 | 1483.8 | 1384.1 | 1264.3 | 1201.7 |
| 10°   | 951.1  | 1028.1 | 1166.2 | 1299.0 | 1406.8 | 1476.2 | 1462.6 | 1383.5 | 1263.2 | 1127.0 | 1056.3 |
| 12.5° | 888.2  | 965.2  | 1105.9 | 1240.8 | 1342.3 | 1368.7 | 1341.0 | 1274.5 | 1160.4 | 1023.9 | 952.7  |
| 15°   | 874.8  | 954.2  | 1084.4 | 1198.3 | 1261.2 | 1244.2 | 1216.8 | 1183.1 | 1101.9 | 990.2  | 921.4  |
| 17.5° | 915.0  | 1003.8 | 1112.9 | 1175.3 | 1172.7 | 1132.0 | 1109.0 | 1115.5 | 1101.7 | 1026.7 | 954.7  |
| 20°   | 997.8  | 1102.7 | 1185.2 | 1169.0 | 1102.2 | 1045.0 | 1031.7 | 1082.9 | 1146.8 | 1118.4 | 1039.3 |
| 22.5° | 1106.6 | 1226.2 | 1283.9 | 1187.0 | 1065.4 | 1003.8 | 1001.2 | 1081.1 | 1229.1 | 1257.0 | 1160.6 |
| 25°   | 1229.6 | 1368.9 | 1383.3 | 1218.8 | 1061.5 | 1000.1 | 997.8  | 1109.3 | 1328.0 | 1394.3 | 1296.7 |
| 27.5° | 1380.0 | 1513.0 | 1466.3 | 1261.4 | 1078.7 | 1010.9 | 1012.4 | 1157.3 | 1431.1 | 1530.0 | 1449.8 |
| 30°   | 1493.2 | 1615.3 | 1517.4 | 1303.1 | 1106.4 | 1029.7 | 1033.6 | 1209.2 | 1486.7 | 1624.2 | 1572.3 |
| 32.5° | 1599.2 | 1702.8 | 1566.5 | 1344.5 | 1146.8 | 1057.6 | 1071.1 | 1274.0 | 1553.5 | 1705.2 | 1687.9 |
| 35°   | 1716.3 | 1800.7 | 1621.1 | 1388.6 | 1204.8 | 1106.6 | 1126.3 | 1335.6 | 1619.7 | 1786.1 | 1802.4 |
| 37.5° | 1849.2 | 1912.6 | 1680.3 | 1451.0 | 1288.3 | 1197.5 | 1208.4 | 1398.5 | 1666.0 | 1875.6 | 1925.4 |
| 40°   | 1987.5 | 2038.1 | 1745.1 | 1534.1 | 1409.6 | 1320.1 | 1325.3 | 1479.1 | 1702.3 | 1968.3 | 2044.7 |
| 42.5° | 2106.3 | 2145.7 | 1810.0 | 1637.5 | 1549.1 | 1445.1 | 1449.6 | 1566.0 | 1737.0 | 2048.0 | 2140.2 |
| 45°   | 2201.3 | 2230.2 | 1871.4 | 1746.4 | 1697.8 | 1601.2 | 1600.2 | 1654.5 | 1783.4 | 2115.5 | 2213.6 |
| 47.5° | 2289.8 | 2305.2 | 1939.7 | 1852.4 | 1852.1 | 1802.2 | 1764.9 | 1758.9 | 1845.3 | 2172.0 | 2277.5 |
| 50°   | 2391.0 | 2396.8 | 2030.0 | 1959.4 | 2040.5 | 2032.7 | 1963.8 | 1891.4 | 1925.4 | 2235.8 | 2344.6 |
| 52.5° | 2532.0 | 2532.2 | 2142.1 | 2063.7 | 2248.5 | 2273.3 | 2193.2 | 2041.6 | 2043.9 | 2359.7 | 2460.5 |
| 55°   | 2697.7 | 2709.2 | 2287.9 | 2188.8 | 2466.2 | 2508.5 | 2433.1 | 2219.8 | 2214.1 | 2559.6 | 2648.4 |
| 57.5° | 2825.9 | 2886.7 | 2457.8 | 2345.1 | 2669.5 | 2724.6 | 2663.8 | 2404.7 | 2423.2 | 2765.9 | 2803.4 |
| 60°   | 2861.9 | 3004.1 | 2627.2 | 2520.4 | 2841.6 | 2924.3 | 2862.4 | 2604.2 | 2627.8 | 2899.8 | 2848.1 |
| 62.5° | 2818.8 | 3041.9 | 2799.8 | 2677.6 | 2943.5 | 3022.9 | 2978.5 | 2735.1 | 2794.5 | 2882.5 | 2772.6 |
| 65°   | 2691.2 | 2987.1 | 2949.6 | 2744.5 | 2884.8 | 2913.1 | 2901.3 | 2741.8 | 2885.1 | 2719.6 | 2564.1 |
| 67.5° | 2393.1 | 2775.8 | 2882.8 | 2601.7 | 2610.6 | 2580.3 | 2564.8 | 2555.4 | 2783.3 | 2456.8 | 2235.2 |
| 70°   | 1946.3 | 2385.0 | 2564.1 | 2177.2 | 2111.5 | 2082.3 | 2031.7 | 2156.9 | 2501.7 | 2093.3 | 1839.6 |
| 72.5° | 1499.2 | 1824.6 | 2103.2 | 1650.5 | 1513.8 | 1523.7 | 1466.3 | 1649.3 | 2072.4 | 1618.2 | 1404.4 |
| 75°   | 1064.6 | 1244.2 | 1678.8 | 1186.0 | 1004.8 | 1004.3 | 999.9  | 1187.0 | 1635.2 | 1161.5 | 1027.6 |
| 77.5° | 767.3  | 895.8  | 1315.2 | 793.7  | 713.1  | 722.2  | 707.6  | 806.8  | 1274.7 | 835.4  | 761.4  |
| 80°   | 612.0  | 663.2  | 850.1  | 529.3  | 530.9  | 552.3  | 549.1  | 551.8  | 838.6  | 605.0  | 569.3  |
| 82.5° | 439.8  | 503.5  | 649.9  | 405.6  | 351.1  | 373.8  | 378.2  | 409.3  | 591.7  | 427.8  | 375.3  |
| 85°   | 225.5  | 307.0  | 597.9  | 351.3  | 219.5  | 181.9  | 209.3  | 322.8  | 513.9  | 256.4  | 183.0  |
| 87.5° | 43.9   | 85.1   | 438.2  | 195.2  | 98.6   | 49.8   | 82.2   | 136.8  | 298.8  | 46.4   | 22.7   |
| 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):**

|       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   | 185°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1227.2 | 1227.2 | 1227.2 | 1227.2 | 1227.2 | 1227.2 | 1227.2 | 1227.2 | 1227.2 | 1227.2 | 1227.2 |
| 2.5°  | 1327.2 | 1293.8 | 1262.4 | 1230.1 | 1205.0 | 1174.6 | 1144.5 | 1118.4 | 1093.1 | 1076.3 | 1081.6 |
| 5°    | 1294.9 | 1213.4 | 1140.3 | 1072.5 | 1032.8 | 985.0  | 942.4  | 906.7  | 879.0  | 861.3  | 872.0  |
| 7.5°  | 1147.3 | 1037.3 | 940.9  | 851.4  | 795.0  | 733.1  | 683.5  | 648.6  | 627.2  | 615.2  | 632.7  |
| 10°   | 996.5  | 872.8  | 764.8  | 671.6  | 615.9  | 563.5  | 518.6  | 481.5  | 452.9  | 439.3  | 446.3  |
| 12.5° | 888.4  | 750.9  | 637.6  | 575.0  | 527.2  | 480.3  | 433.8  | 390.5  | 353.9  | 337.2  | 333.8  |
| 15°   | 848.0  | 685.4  | 569.8  | 499.8  | 452.3  | 401.2  | 351.1  | 304.6  | 269.9  | 255.5  | 252.4  |
| 17.5° | 865.7  | 671.3  | 529.6  | 446.8  | 378.0  | 315.8  | 259.4  | 215.6  | 190.0  | 181.9  | 182.7  |
| 20°   | 928.1  | 676.5  | 497.3  | 392.3  | 307.2  | 233.6  | 177.2  | 146.9  | 136.0  | 134.1  | 136.3  |
| 22.5° | 1013.7 | 698.0  | 473.7  | 345.3  | 244.8  | 169.9  | 131.8  | 117.4  | 114.6  | 114.4  | 116.4  |
| 25°   | 1126.8 | 739.7  | 458.1  | 303.5  | 193.4  | 134.7  | 114.9  | 106.8  | 104.4  | 105.0  | 107.0  |
| 27.5° | 1259.9 | 792.7  | 447.8  | 267.5  | 159.0  | 120.1  | 107.3  | 100.2  | 97.9   | 98.4   | 99.9   |
| 30°   | 1381.5 | 839.1  | 432.7  | 240.4  | 142.8  | 114.9  | 103.1  | 96.1   | 92.9   | 92.9   | 94.0   |
| 32.5° | 1490.3 | 879.3  | 415.0  | 220.0  | 127.9  | 103.1  | 93.4   | 88.0   | 85.6   | 86.4   | 87.0   |
| 35°   | 1586.9 | 900.5  | 401.2  | 208.1  | 115.9  | 95.0   | 85.3   | 79.6   | 76.5   | 77.0   | 77.7   |
| 37.5° | 1681.9 | 908.6  | 392.0  | 201.5  | 107.3  | 90.0   | 81.2   | 76.5   | 73.0   | 72.5   | 72.3   |
| 40°   | 1772.2 | 906.7  | 383.4  | 199.7  | 101.6  | 86.4   | 78.6   | 74.4   | 71.0   | 70.2   | 70.0   |
| 42.5° | 1850.2 | 900.7  | 375.3  | 194.7  | 97.6   | 83.8   | 76.5   | 72.8   | 69.5   | 68.3   | 67.8   |
| 45°   | 1921.5 | 897.0  | 366.4  | 185.6  | 99.7   | 82.8   | 75.4   | 71.5   | 68.3   | 67.1   | 66.6   |
| 47.5° | 2000.6 | 910.1  | 356.5  | 175.6  | 99.2   | 83.0   | 75.4   | 71.0   | 67.8   | 66.6   | 66.1   |
| 50°   | 2094.8 | 954.2  | 344.2  | 162.0  | 94.5   | 88.7   | 75.2   | 70.2   | 67.3   | 66.6   | 65.5   |
| 52.5° | 2227.9 | 1025.7 | 327.3  | 144.6  | 90.8   | 94.7   | 74.9   | 68.9   | 66.6   | 65.3   | 63.9   |
| 55°   | 2410.4 | 1097.2 | 305.4  | 126.0  | 85.1   | 90.5   | 75.4   | 67.3   | 64.8   | 63.4   | 61.9   |
| 57.5° | 2559.9 | 1151.5 | 277.7  | 110.7  | 79.9   | 85.6   | 74.7   | 65.5   | 62.6   | 61.4   | 60.0   |
| 60°   | 2550.2 | 1156.8 | 251.3  | 100.8  | 76.7   | 77.0   | 76.5   | 64.2   | 60.8   | 59.7   | 58.7   |
| 62.5° | 2392.4 | 1092.3 | 226.8  | 95.7   | 74.4   | 70.2   | 78.1   | 62.6   | 59.0   | 57.9   | 57.2   |
| 65°   | 2129.5 | 942.2  | 213.8  | 95.7   | 72.3   | 66.6   | 68.1   | 60.6   | 57.2   | 56.2   | 55.5   |
| 67.5° | 1796.2 | 757.2  | 201.5  | 97.9   | 69.5   | 63.9   | 61.9   | 58.5   | 55.3   | 54.3   | 53.8   |
| 70°   | 1439.7 | 595.9  | 192.9  | 96.9   | 66.8   | 61.1   | 58.5   | 55.5   | 52.5   | 52.2   | 51.7   |
| 72.5° | 1129.3 | 478.6  | 188.9  | 96.9   | 62.9   | 57.7   | 55.0   | 53.0   | 49.8   | 49.6   | 48.8   |
| 75°   | 904.9  | 359.4  | 172.8  | 95.0   | 59.0   | 53.2   | 50.9   | 49.1   | 45.9   | 46.2   | 45.7   |
| 77.5° | 700.8  | 254.2  | 144.3  | 85.6   | 54.0   | 48.3   | 46.4   | 45.1   | 41.5   | 41.7   | 41.7   |
| 80°   | 548.1  | 165.5  | 112.0  | 71.0   | 48.3   | 42.6   | 41.2   | 40.2   | 36.3   | 36.8   | 36.8   |
| 82.5° | 375.6  | 98.4   | 81.2   | 57.2   | 41.5   | 36.3   | 36.0   | 34.5   | 30.3   | 30.6   | 31.1   |
| 85°   | 205.1  | 64.8   | 54.0   | 42.2   | 32.6   | 29.5   | 28.9   | 28.2   | 24.2   | 24.2   | 24.6   |
| 87.5° | 37.8   | 34.7   | 31.8   | 27.9   | 21.9   | 21.2   | 20.4   | 21.2   | 18.3   | 17.7   | 17.7   |
| 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):**

|       | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   | 285°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1227.2 | 1227.2 | 1227.2 | 1227.2 | 1227.2 | 1227.2 | 1227.2 | 1227.2 | 1227.2 | 1227.2 | 1227.2 |
| 2.5°  | 1069.3 | 1051.3 | 1038.8 | 1027.9 | 1001.5 | 1003.3 | 1007.0 | 1012.2 | 995.7  | 1004.3 | 1015.1 |
| 5°    | 861.3  | 846.4  | 835.2  | 817.7  | 780.9  | 767.8  | 759.5  | 755.9  | 731.3  | 736.5  | 748.0  |
| 7.5°  | 635.0  | 634.7  | 630.9  | 611.3  | 566.9  | 540.0  | 522.2  | 516.8  | 501.7  | 507.4  | 524.9  |
| 10°   | 447.1  | 451.8  | 450.0  | 432.5  | 392.8  | 373.5  | 369.6  | 380.5  | 380.8  | 392.0  | 422.1  |
| 12.5° | 323.2  | 320.5  | 318.1  | 303.8  | 274.0  | 270.9  | 279.8  | 294.9  | 298.6  | 310.6  | 341.9  |
| 15°   | 241.2  | 234.9  | 233.6  | 222.4  | 202.7  | 205.7  | 212.2  | 220.0  | 220.2  | 228.6  | 254.5  |
| 17.5° | 180.9  | 180.9  | 183.0  | 175.6  | 161.5  | 160.3  | 156.8  | 154.8  | 151.6  | 155.1  | 169.1  |
| 20°   | 140.5  | 146.9  | 152.2  | 148.0  | 135.2  | 128.9  | 122.4  | 118.3  | 115.9  | 116.1  | 120.3  |
| 22.5° | 120.3  | 125.5  | 132.4  | 130.2  | 119.6  | 111.4  | 107.3  | 104.4  | 102.6  | 102.6  | 105.0  |
| 25°   | 110.2  | 113.5  | 119.8  | 118.8  | 109.7  | 103.1  | 99.7   | 96.9   | 94.7   | 94.5   | 96.9   |
| 27.5° | 102.1  | 104.1  | 108.3  | 107.8  | 98.4   | 94.2   | 92.2   | 90.3   | 89.0   | 88.7   | 91.0   |
| 30°   | 94.7   | 95.7   | 97.9   | 97.1   | 90.0   | 85.8   | 85.1   | 84.3   | 83.5   | 83.8   | 87.2   |
| 32.5° | 88.2   | 89.0   | 90.3   | 89.3   | 82.4   | 78.9   | 77.5   | 76.5   | 75.7   | 76.5   | 80.4   |
| 35°   | 80.9   | 83.3   | 84.8   | 84.3   | 77.0   | 72.5   | 69.7   | 67.1   | 66.1   | 66.8   | 71.3   |
| 37.5° | 74.7   | 78.6   | 80.6   | 80.1   | 72.5   | 67.3   | 63.7   | 63.1   | 63.1   | 64.2   | 68.6   |
| 40°   | 72.3   | 75.2   | 77.0   | 76.2   | 68.6   | 63.4   | 61.4   | 60.6   | 60.8   | 61.9   | 66.6   |
| 42.5° | 70.2   | 72.8   | 73.3   | 71.8   | 64.2   | 60.8   | 59.5   | 58.5   | 59.0   | 60.3   | 65.0   |
| 45°   | 68.3   | 70.5   | 70.2   | 67.8   | 60.6   | 58.2   | 58.2   | 57.4   | 57.7   | 58.7   | 63.7   |
| 47.5° | 67.1   | 68.1   | 67.6   | 65.3   | 57.9   | 56.2   | 56.9   | 56.9   | 57.4   | 58.2   | 63.1   |
| 50°   | 65.0   | 65.8   | 65.3   | 63.1   | 55.9   | 54.3   | 55.0   | 56.2   | 56.7   | 57.4   | 61.9   |
| 52.5° | 62.9   | 63.4   | 63.1   | 61.1   | 53.8   | 52.7   | 52.7   | 53.8   | 54.8   | 55.9   | 59.7   |
| 55°   | 60.8   | 61.4   | 61.6   | 60.0   | 52.2   | 51.1   | 50.9   | 50.9   | 52.0   | 53.5   | 57.7   |
| 57.5° | 59.2   | 59.2   | 59.7   | 58.7   | 50.6   | 49.3   | 48.0   | 48.3   | 49.6   | 50.9   | 55.0   |
| 60°   | 57.4   | 57.7   | 58.5   | 57.4   | 48.6   | 46.4   | 45.4   | 46.7   | 47.3   | 48.6   | 53.0   |
| 62.5° | 55.9   | 55.9   | 56.4   | 55.5   | 46.7   | 44.6   | 43.9   | 45.1   | 45.1   | 46.4   | 50.9   |
| 65°   | 54.5   | 54.3   | 54.3   | 54.0   | 44.9   | 42.8   | 42.2   | 42.8   | 43.1   | 44.4   | 48.8   |
| 67.5° | 53.5   | 52.2   | 52.2   | 52.7   | 43.1   | 41.0   | 40.7   | 40.7   | 41.0   | 42.6   | 46.4   |
| 70°   | 51.1   | 50.1   | 49.8   | 51.7   | 41.2   | 38.7   | 38.7   | 38.2   | 38.7   | 39.4   | 43.6   |
| 72.5° | 48.6   | 47.8   | 47.5   | 50.1   | 39.4   | 36.0   | 35.5   | 35.2   | 35.5   | 36.3   | 40.2   |
| 75°   | 45.1   | 44.6   | 45.1   | 49.1   | 37.5   | 33.1   | 32.3   | 32.1   | 32.1   | 32.3   | 36.5   |
| 77.5° | 41.2   | 40.7   | 44.6   | 45.7   | 36.5   | 29.8   | 28.9   | 28.4   | 27.9   | 27.9   | 32.6   |
| 80°   | 36.5   | 36.3   | 43.1   | 38.7   | 35.0   | 26.1   | 24.8   | 24.0   | 23.5   | 23.2   | 27.9   |
| 82.5° | 31.8   | 31.3   | 36.8   | 30.3   | 28.9   | 21.4   | 19.5   | 18.0   | 17.2   | 17.2   | 21.4   |
| 85°   | 26.1   | 25.9   | 28.9   | 22.2   | 20.0   | 15.7   | 13.1   | 11.8   | 10.7   | 10.7   | 13.8   |
| 87.5° | 19.0   | 18.5   | 18.0   | 13.3   | 10.2   | 7.1    | 4.9    | 4.7    | 4.2    | 3.9    | 5.7    |
| 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: P198738

CATALOG NUMBER: XNV-AF-01-LED-U-SLL-600

**CANDELA DISTRIBUTION (continued):**

|       | 295°   | 305°   | 315°   | 325°   | 335°   | 345°   | 355°   | 360°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1227.2 | 1227.2 | 1227.2 | 1227.2 | 1227.2 | 1227.2 | 1227.2 | 1227.2 |
| 2.5°  | 1030.9 | 1052.6 | 1093.6 | 1127.3 | 1172.2 | 1208.2 | 1249.1 | 1266.9 |
| 5°    | 769.2  | 803.3  | 866.0  | 919.5  | 993.6  | 1062.2 | 1140.6 | 1183.3 |
| 7.5°  | 551.8  | 602.4  | 649.9  | 716.7  | 809.4  | 901.5  | 1002.8 | 1059.4 |
| 10°   | 456.5  | 503.0  | 543.7  | 591.2  | 662.7  | 766.3  | 887.1  | 951.1  |
| 12.5° | 378.2  | 428.3  | 471.4  | 522.2  | 582.3  | 676.0  | 813.8  | 888.2  |
| 15°   | 290.0  | 344.5  | 396.2  | 457.6  | 531.1  | 638.1  | 791.9  | 874.8  |
| 17.5° | 198.7  | 257.1  | 320.8  | 395.7  | 484.5  | 622.3  | 812.7  | 915.0  |
| 20°   | 134.9  | 177.8  | 246.9  | 335.6  | 442.4  | 614.7  | 858.7  | 997.8  |
| 22.5° | 110.9  | 130.2  | 182.2  | 279.3  | 408.0  | 623.0  | 933.3  | 1106.6 |
| 25°   | 101.8  | 112.2  | 141.7  | 229.7  | 381.6  | 645.2  | 1034.3 | 1229.6 |
| 27.5° | 96.1   | 105.0  | 124.2  | 194.2  | 357.3  | 675.5  | 1157.3 | 1380.0 |
| 30°   | 92.7   | 101.0  | 117.2  | 175.9  | 335.1  | 701.5  | 1263.0 | 1493.2 |
| 32.5° | 85.1   | 91.3   | 104.6  | 165.5  | 319.2  | 722.7  | 1356.1 | 1599.2 |
| 35°   | 75.9   | 83.5   | 94.5   | 158.7  | 318.6  | 732.6  | 1443.9 | 1716.3 |
| 37.5° | 72.5   | 79.9   | 88.0   | 155.1  | 321.8  | 741.0  | 1551.1 | 1849.2 |
| 40°   | 70.5   | 77.0   | 83.5   | 154.5  | 324.4  | 747.5  | 1656.1 | 1987.5 |
| 42.5° | 68.6   | 75.2   | 82.8   | 150.9  | 323.4  | 756.4  | 1748.9 | 2106.3 |
| 45°   | 68.1   | 74.7   | 84.6   | 145.4  | 323.2  | 770.2  | 1822.8 | 2201.3 |
| 47.5° | 67.6   | 77.5   | 84.1   | 139.3  | 322.1  | 799.4  | 1906.1 | 2289.8 |
| 50°   | 67.1   | 82.8   | 80.4   | 131.0  | 314.3  | 849.3  | 2018.1 | 2391.0 |
| 52.5° | 66.8   | 83.5   | 76.5   | 119.6  | 300.1  | 923.2  | 2182.0 | 2532.0 |
| 55°   | 65.8   | 79.4   | 69.7   | 104.4  | 279.8  | 1002.8 | 2357.6 | 2697.7 |
| 57.5° | 63.4   | 70.7   | 65.8   | 89.5   | 250.5  | 1058.3 | 2487.3 | 2825.9 |
| 60°   | 69.2   | 60.8   | 63.1   | 81.9   | 215.6  | 1068.3 | 2493.1 | 2861.9 |
| 62.5° | 66.1   | 55.3   | 60.6   | 79.4   | 191.1  | 1003.5 | 2379.1 | 2818.8 |
| 65°   | 52.7   | 52.5   | 58.2   | 81.9   | 187.4  | 858.7  | 2186.5 | 2691.2 |
| 67.5° | 48.0   | 50.3   | 55.9   | 85.1   | 189.8  | 676.5  | 1903.0 | 2393.1 |
| 70°   | 44.9   | 47.8   | 52.7   | 88.0   | 194.0  | 533.0  | 1532.1 | 1946.3 |
| 72.5° | 41.7   | 44.1   | 49.6   | 90.8   | 191.1  | 420.4  | 1226.2 | 1499.2 |
| 75°   | 37.8   | 39.9   | 45.1   | 83.3   | 163.9  | 309.0  | 974.4  | 1064.6 |
| 77.5° | 33.5   | 35.2   | 39.7   | 65.8   | 123.2  | 215.0  | 729.8  | 767.3  |
| 80°   | 28.7   | 29.5   | 32.8   | 48.0   | 80.4   | 128.7  | 555.5  | 612.0  |
| 82.5° | 22.7   | 23.0   | 25.1   | 35.2   | 50.1   | 82.2   | 385.2  | 439.8  |
| 85°   | 14.6   | 15.1   | 16.2   | 24.8   | 33.7   | 52.7   | 196.8  | 225.5  |
| 87.5° | 4.9    | 5.7    | 5.7    | 12.0   | 16.5   | 29.3   | 60.3   | 43.9   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)