

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: P959382

Luminaire Tested: **NVN-SB1A-760-U-SL3**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P959382  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB1A-760-U-SL3  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 5700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 4756 lumens  
Efficiency: N/A  
Efficacy: 153.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 30.9  
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: 24 FT



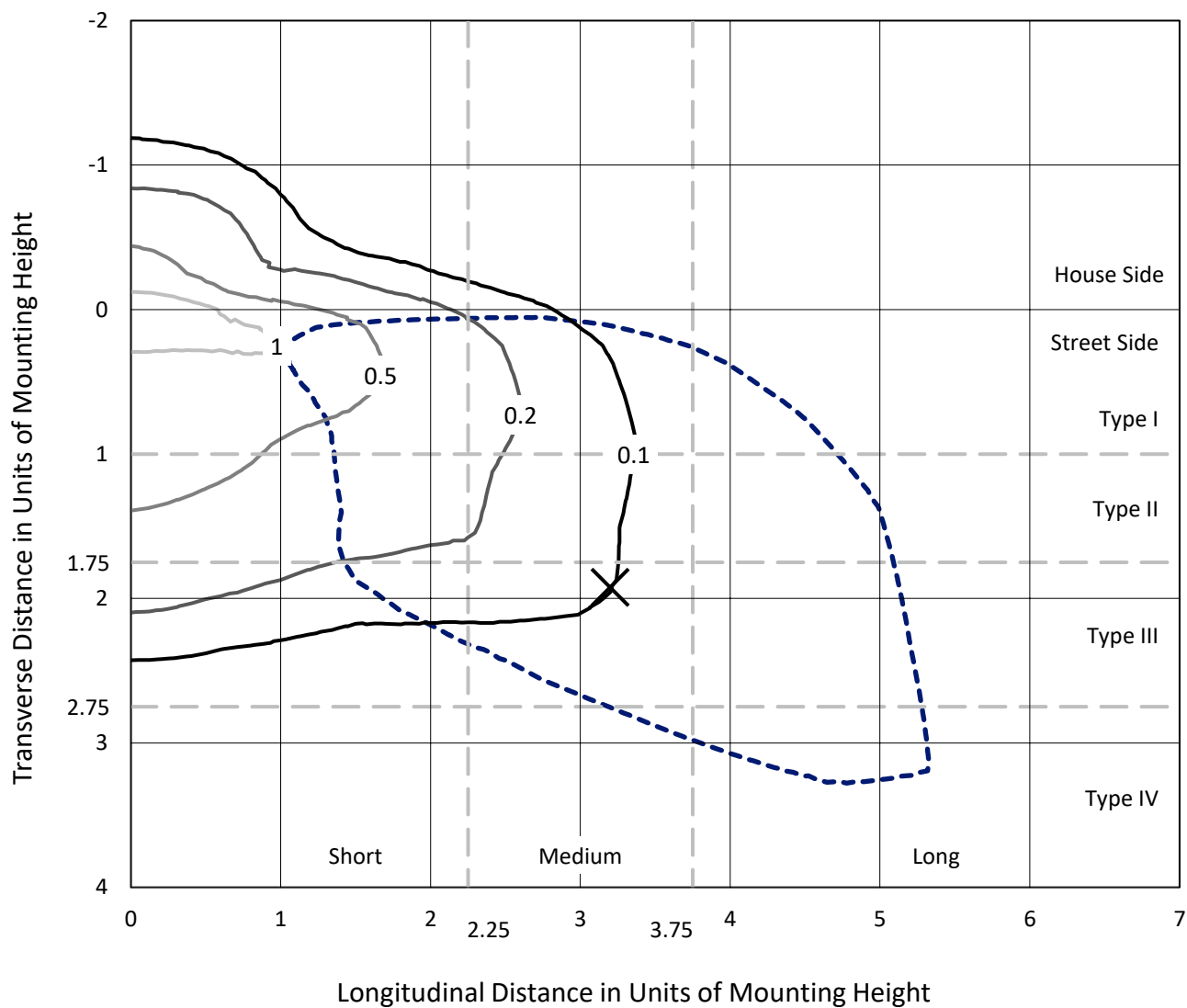
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## Iso-Footcandle Lines of Horizontal Illumination

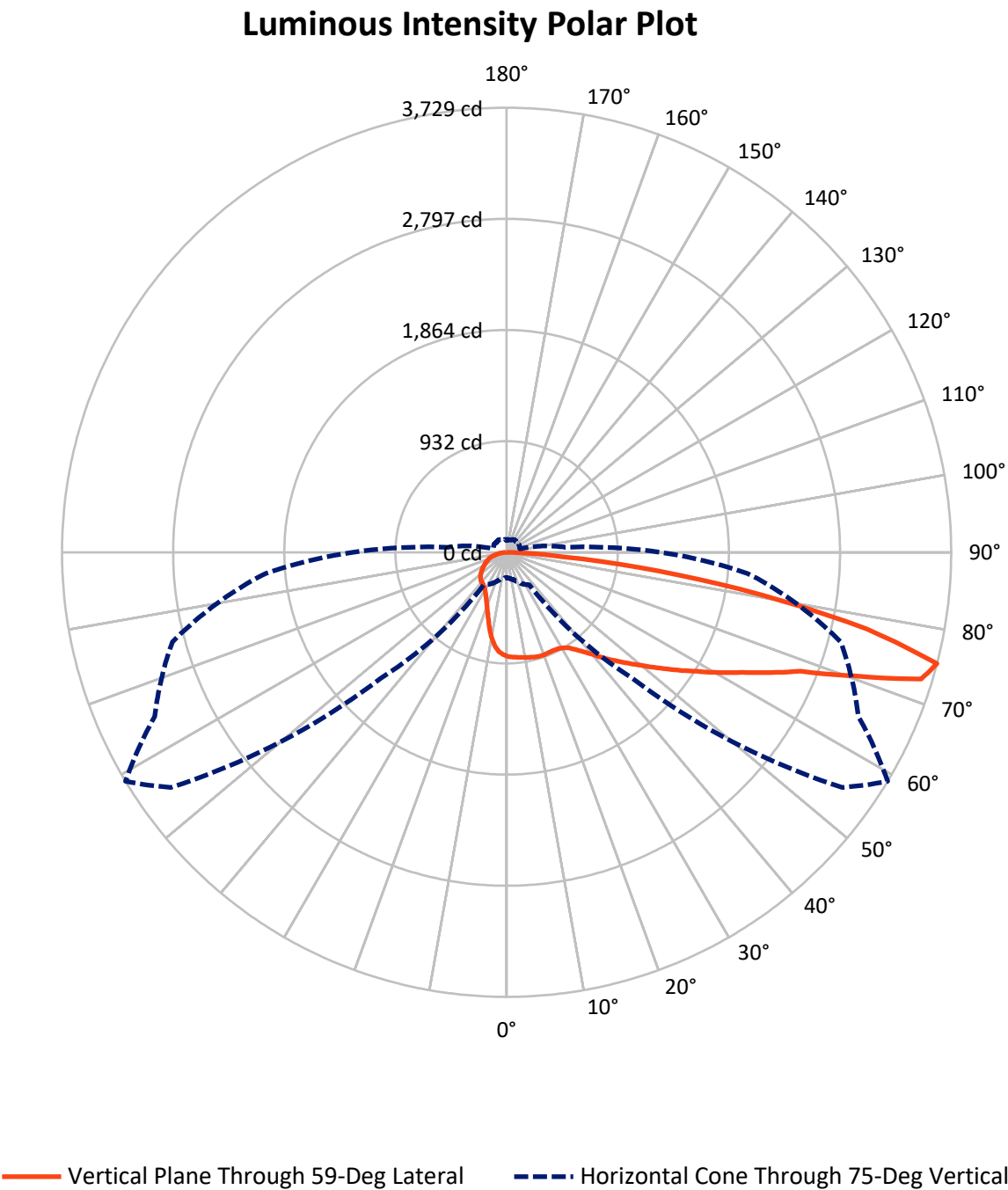
× Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc  
Type IV - Medium - N/A

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 892.0    | 0.0    | 892.0  |
|                    | % Fixture | 18.8     | 0.0    | 18.8   |
| <b>Street Side</b> | Lumens    | 3864.0   | 0.0    | 3864.0 |
|                    | % Fixture | 81.2     | 0.0    | 81.2   |
| <b>Total</b>       | Lumens    | 4756.0   | 0.0    | 4756.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 78.3   | 1.6       |
| 10°-20°   | 200.1  | 4.2       |
| 20°-30°   | 303.9  | 6.4       |
| 30°-40°   | 451.7  | 9.5       |
| 40°-50°   | 671.8  | 14.1      |
| 50°-60°   | 911.9  | 19.2      |
| 60°-70°   | 1113.3 | 23.4      |
| 70°-80°   | 873.7  | 18.4      |
| 80°-90°   | 151.4  | 3.2       |
| 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°    | 4756.0 | 100.0     |
| 0°-180°   | 4756.0 | 100.0     |

**Coefficient of Utilization**



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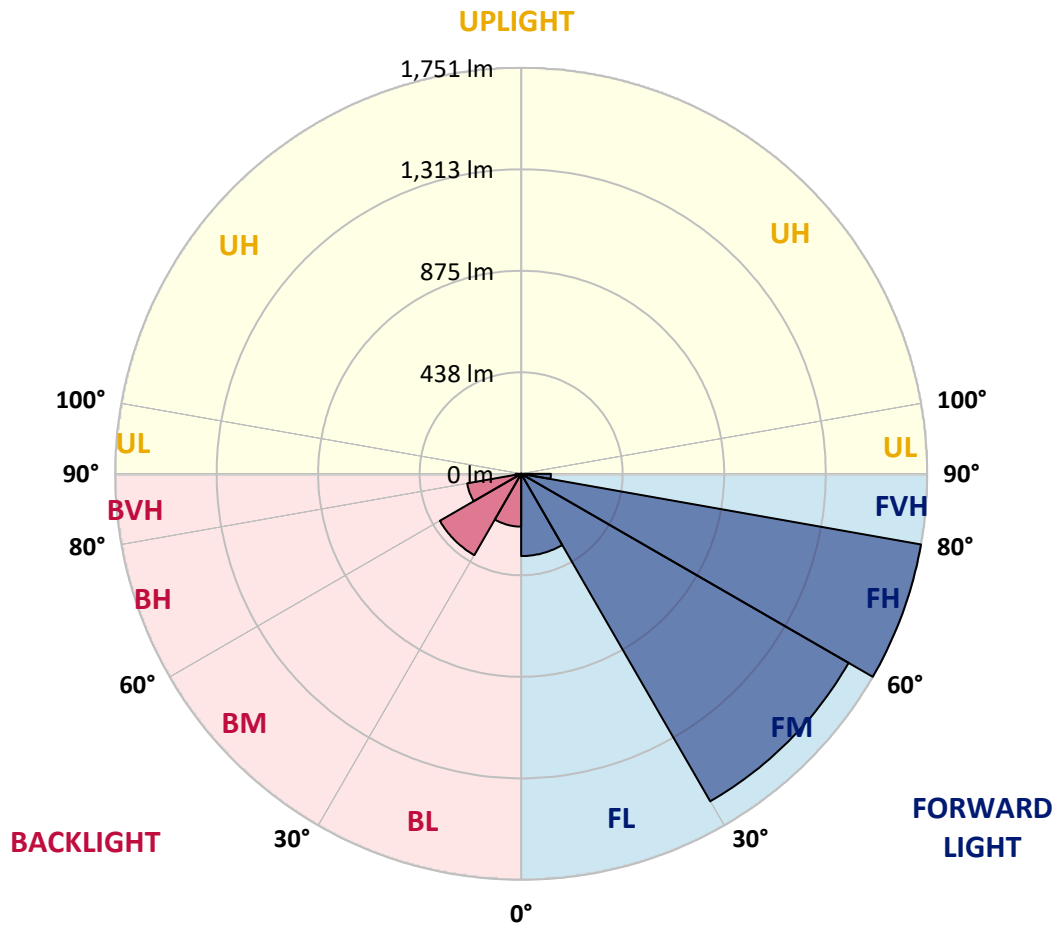
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 354.6  | 7.5       |                         |      |         |
| FM   | (30°-60°)   | 1630.6 | 34.3      |                         |      |         |
| FH   | (60°-80°)   | 1750.6 | 36.8      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 128.2  | 2.7       |                         |      | G2/225  |
| BL   | (0°-30°)    | 227.6  | 4.8       | B1/500                  |      |         |
| BM   | (30°-60°)   | 404.9  | 8.5       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 236.3  | 5.0       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 23.2   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 59°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 873.0  | 873.0  | 873.0  | 873.0  | 873.0  | 873.0  | 873.0  | 873.0  | 873.0  | 873.0  | 873.0  |
| 2.5°  | 880.4  | 877.3  | 880.4  | 879.1  | 878.6  | 877.6  | 877.8  | 879.7  | 878.6  | 879.9  | 875.6  |
| 5°    | 874.5  | 872.7  | 875.8  | 875.0  | 878.3  | 878.8  | 882.1  | 884.2  | 885.5  | 885.7  | 882.4  |
| 7.5°  | 864.8  | 862.9  | 867.4  | 870.9  | 878.1  | 880.2  | 887.0  | 890.3  | 892.2  | 895.2  | 890.3  |
| 10°   | 829.2  | 828.4  | 839.2  | 852.7  | 869.6  | 880.2  | 890.6  | 896.3  | 899.0  | 907.2  | 901.6  |
| 12.5° | 766.3  | 767.3  | 781.4  | 807.5  | 841.2  | 875.0  | 894.7  | 902.9  | 907.2  | 917.5  | 914.9  |
| 15°   | 706.1  | 705.9  | 721.2  | 749.2  | 796.4  | 852.5  | 896.8  | 910.8  | 918.2  | 933.4  | 931.3  |
| 17.5° | 671.4  | 670.3  | 681.1  | 702.3  | 746.3  | 817.9  | 891.6  | 915.1  | 931.0  | 950.0  | 948.1  |
| 20°   | 664.9  | 662.9  | 668.5  | 679.1  | 710.2  | 780.1  | 878.3  | 915.1  | 941.3  | 965.9  | 964.8  |
| 22.5° | 688.2  | 684.9  | 682.6  | 681.3  | 695.2  | 748.9  | 863.3  | 912.1  | 956.3  | 988.6  | 986.8  |
| 25°   | 735.0  | 729.9  | 718.1  | 706.6  | 702.5  | 734.8  | 849.9  | 911.3  | 978.9  | 1019.3 | 1012.6 |
| 27.5° | 810.8  | 804.4  | 780.6  | 753.0  | 728.2  | 742.0  | 844.1  | 915.9  | 1003.7 | 1051.8 | 1038.5 |
| 30°   | 904.7  | 897.8  | 867.9  | 825.3  | 780.8  | 768.5  | 851.5  | 929.5  | 1035.5 | 1095.0 | 1069.0 |
| 32.5° | 988.8  | 981.1  | 955.6  | 912.4  | 852.2  | 814.7  | 875.0  | 955.3  | 1085.3 | 1155.2 | 1114.7 |
| 35°   | 1063.5 | 1054.6 | 1031.6 | 991.7  | 939.7  | 879.3  | 917.5  | 1001.1 | 1156.2 | 1252.9 | 1176.9 |
| 37.5° | 1136.7 | 1126.3 | 1101.2 | 1058.9 | 1022.6 | 965.6  | 976.1  | 1060.0 | 1250.3 | 1371.6 | 1259.3 |
| 40°   | 1218.6 | 1203.6 | 1173.1 | 1131.4 | 1096.0 | 1066.6 | 1053.1 | 1132.1 | 1346.0 | 1504.1 | 1362.1 |
| 42.5° | 1298.0 | 1283.6 | 1247.2 | 1211.7 | 1167.5 | 1159.0 | 1142.4 | 1216.6 | 1450.7 | 1649.7 | 1466.6 |
| 45°   | 1383.3 | 1366.2 | 1322.2 | 1277.1 | 1249.3 | 1220.4 | 1228.9 | 1301.0 | 1553.3 | 1798.1 | 1576.0 |
| 47.5° | 1463.5 | 1444.2 | 1392.4 | 1342.1 | 1326.9 | 1272.0 | 1308.1 | 1393.9 | 1660.0 | 1948.5 | 1684.5 |
| 50°   | 1506.6 | 1487.8 | 1444.5 | 1399.2 | 1387.2 | 1335.8 | 1394.1 | 1496.0 | 1771.7 | 2098.5 | 1788.6 |
| 52.5° | 1542.7 | 1522.3 | 1465.7 | 1440.6 | 1437.0 | 1405.1 | 1500.1 | 1612.6 | 1883.5 | 2231.0 | 1889.2 |
| 55°   | 1581.2 | 1558.4 | 1486.2 | 1463.7 | 1480.1 | 1482.9 | 1625.6 | 1744.9 | 2001.7 | 2360.2 | 1984.1 |
| 57.5° | 1625.4 | 1596.5 | 1505.9 | 1483.2 | 1522.0 | 1574.0 | 1770.0 | 1882.0 | 2118.0 | 2479.9 | 2068.6 |
| 60°   | 1667.1 | 1637.9 | 1543.8 | 1514.1 | 1567.3 | 1679.7 | 1935.5 | 2048.1 | 2249.5 | 2586.6 | 2148.4 |
| 62.5° | 1675.3 | 1651.3 | 1574.0 | 1573.7 | 1628.7 | 1803.0 | 2131.5 | 2215.6 | 2364.3 | 2692.1 | 2219.9 |
| 65°   | 1533.5 | 1518.4 | 1472.6 | 1571.4 | 1716.8 | 1980.5 | 2349.7 | 2430.1 | 2510.4 | 2784.1 | 2282.9 |
| 67.5° | 1167.2 | 1169.2 | 1165.9 | 1356.5 | 1645.6 | 2235.6 | 2665.7 | 2659.6 | 2690.7 | 2887.5 | 2355.3 |
| 70°   | 533.7  | 545.7  | 624.0  | 936.4  | 1318.4 | 2265.0 | 3188.2 | 3108.5 | 2917.1 | 3021.3 | 2418.0 |
| 72.5° | 288.3  | 297.6  | 329.5  | 453.7  | 792.6  | 2013.8 | 3578.6 | 3635.1 | 3218.3 | 3111.4 | 2349.2 |
| 75°   | 211.6  | 216.7  | 238.9  | 288.3  | 332.8  | 1496.7 | 3438.6 | 3728.7 | 3255.9 | 2901.4 | 2028.6 |
| 77.5° | 158.4  | 160.7  | 178.9  | 228.5  | 170.4  | 789.0  | 2747.5 | 3088.1 | 2787.2 | 2383.7 | 1498.6 |
| 80°   | 114.9  | 117.5  | 131.0  | 171.4  | 119.5  | 288.6  | 1886.6 | 2167.6 | 1908.9 | 1519.5 | 746.8  |
| 82.5° | 79.3   | 80.4   | 86.2   | 116.6  | 83.4   | 112.0  | 1070.5 | 1271.1 | 1065.6 | 533.2  | 201.6  |
| 85°   | 47.9   | 49.1   | 51.7   | 68.1   | 47.4   | 53.2   | 462.1  | 478.0  | 318.6  | 127.4  | 62.7   |
| 87.5° | 19.7   | 21.0   | 23.1   | 28.7   | 18.7   | 14.9   | 76.3   | 95.7   | 59.7   | 37.3   | 19.5   |
| 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):**

|       | 90°    | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 873.0  | 873.0 | 873.0 | 873.0 | 873.0 | 873.0 | 873.0 | 873.0 | 873.0 | 873.0 | 873.0 |
| 2.5°  | 874.2  | 872.5 | 867.6 | 860.9 | 854.7 | 847.2 | 843.8 | 841.0 | 838.4 | 833.5 | 831.3 |
| 5°    | 879.7  | 874.7 | 861.7 | 844.8 | 825.6 | 804.6 | 784.1 | 770.1 | 758.1 | 749.2 | 741.7 |
| 7.5°  | 887.8  | 878.6 | 854.7 | 820.2 | 776.2 | 731.2 | 690.5 | 661.6 | 639.9 | 631.9 | 618.2 |
| 10°   | 896.3  | 885.2 | 843.8 | 782.9 | 706.9 | 637.6 | 583.6 | 553.9 | 536.5 | 530.8 | 522.1 |
| 12.5° | 906.2  | 890.1 | 826.7 | 730.9 | 629.3 | 553.4 | 506.4 | 488.9 | 480.0 | 476.9 | 477.6 |
| 15°   | 920.8  | 894.2 | 800.8 | 665.9 | 555.4 | 492.0 | 461.6 | 449.6 | 445.0 | 444.6 | 445.7 |
| 17.5° | 931.8  | 894.9 | 760.7 | 596.3 | 498.7 | 454.9 | 429.8 | 425.2 | 428.2 | 432.9 | 434.7 |
| 20°   | 944.1  | 888.1 | 708.0 | 532.9 | 458.7 | 422.4 | 411.9 | 415.0 | 422.4 | 429.1 | 431.3 |
| 22.5° | 952.7  | 875.6 | 644.2 | 483.6 | 424.1 | 403.7 | 403.2 | 409.6 | 413.7 | 417.1 | 418.8 |
| 25°   | 960.4  | 854.2 | 576.7 | 442.1 | 395.8 | 392.5 | 398.1 | 396.1 | 393.2 | 396.1 | 397.8 |
| 27.5° | 966.1  | 820.7 | 516.3 | 405.8 | 375.9 | 384.8 | 381.5 | 376.9 | 376.6 | 378.1 | 380.7 |
| 30°   | 964.3  | 776.0 | 466.7 | 371.3 | 361.7 | 370.4 | 362.5 | 361.7 | 361.0 | 361.7 | 364.6 |
| 32.5° | 964.3  | 725.1 | 428.6 | 347.5 | 352.8 | 349.5 | 348.7 | 347.0 | 343.9 | 343.6 | 347.0 |
| 35°   | 969.6  | 674.1 | 395.8 | 334.7 | 345.4 | 337.4 | 337.9 | 333.6 | 327.2 | 324.2 | 327.2 |
| 37.5° | 980.6  | 633.2 | 363.3 | 328.5 | 332.3 | 332.1 | 330.0 | 322.7 | 311.4 | 301.7 | 304.9 |
| 40°   | 1007.3 | 621.2 | 341.0 | 325.7 | 326.2 | 329.2 | 323.9 | 309.5 | 284.0 | 268.1 | 270.2 |
| 42.5° | 1049.0 | 641.4 | 336.2 | 318.8 | 322.2 | 325.2 | 314.7 | 281.5 | 263.2 | 253.8 | 253.8 |
| 45°   | 1102.0 | 676.7 | 346.7 | 308.8 | 312.4 | 317.8 | 286.6 | 270.7 | 262.5 | 262.7 | 264.0 |
| 47.5° | 1169.0 | 713.8 | 366.1 | 300.1 | 298.3 | 301.3 | 267.8 | 258.2 | 246.9 | 249.7 | 256.9 |
| 50°   | 1246.5 | 751.4 | 384.6 | 288.3 | 282.7 | 272.8 | 255.8 | 246.6 | 232.3 | 225.7 | 227.4 |
| 52.5° | 1330.4 | 787.7 | 392.0 | 274.0 | 265.8 | 254.3 | 247.6 | 236.4 | 219.0 | 208.0 | 207.8 |
| 55°   | 1410.0 | 820.7 | 383.8 | 256.9 | 249.0 | 240.0 | 238.9 | 232.1 | 213.4 | 198.0 | 198.0 |
| 57.5° | 1485.2 | 848.4 | 363.3 | 239.4 | 231.8 | 226.4 | 233.3 | 230.0 | 206.4 | 186.8 | 185.7 |
| 60°   | 1548.9 | 867.4 | 333.6 | 221.8 | 216.5 | 213.6 | 224.2 | 223.1 | 196.7 | 174.8 | 173.9 |
| 62.5° | 1599.5 | 874.7 | 300.8 | 204.9 | 203.7 | 198.5 | 211.4 | 211.4 | 184.5 | 163.0 | 162.3 |
| 65°   | 1639.2 | 867.6 | 267.6 | 188.3 | 190.9 | 183.2 | 195.7 | 194.2 | 171.4 | 152.5 | 151.5 |
| 67.5° | 1674.2 | 844.1 | 230.7 | 171.9 | 177.8 | 168.1 | 179.4 | 175.8 | 157.1 | 142.0 | 140.9 |
| 70°   | 1689.9 | 789.2 | 188.8 | 155.6 | 162.8 | 153.2 | 163.0 | 156.3 | 140.9 | 130.7 | 128.7 |
| 72.5° | 1564.6 | 656.0 | 148.6 | 138.4 | 144.5 | 136.8 | 145.3 | 137.7 | 123.6 | 119.0 | 115.1 |
| 75°   | 1294.4 | 492.2 | 114.4 | 119.7 | 124.3 | 118.5 | 124.1 | 118.5 | 105.7 | 109.0 | 99.5  |
| 77.5° | 940.0  | 332.3 | 87.5  | 100.0 | 102.1 | 99.0  | 103.8 | 97.5  | 86.0  | 85.2  | 81.4  |
| 80°   | 467.4  | 194.7 | 68.6  | 79.0  | 78.3  | 76.3  | 81.9  | 78.8  | 69.1  | 73.2  | 72.4  |
| 82.5° | 135.3  | 83.4  | 49.9  | 55.6  | 54.0  | 54.5  | 58.6  | 60.2  | 90.1  | 89.3  | 91.3  |
| 85°   | 42.4   | 32.7  | 29.9  | 31.0  | 29.4  | 30.2  | 34.5  | 68.6  | 63.4  | 37.1  | 40.2  |
| 87.5° | 11.0   | 11.3  | 7.4   | 7.9   | 8.2   | 9.7   | 11.0  | 41.7  | 20.0  | 13.0  | 13.8  |
| 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)