

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: P959766

Luminaire Tested: **NVN-SB1B-727-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P959766  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB1B-727-U-T2U  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5427.4 lumens  
Efficiency: N/A  
Efficacy: 136.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

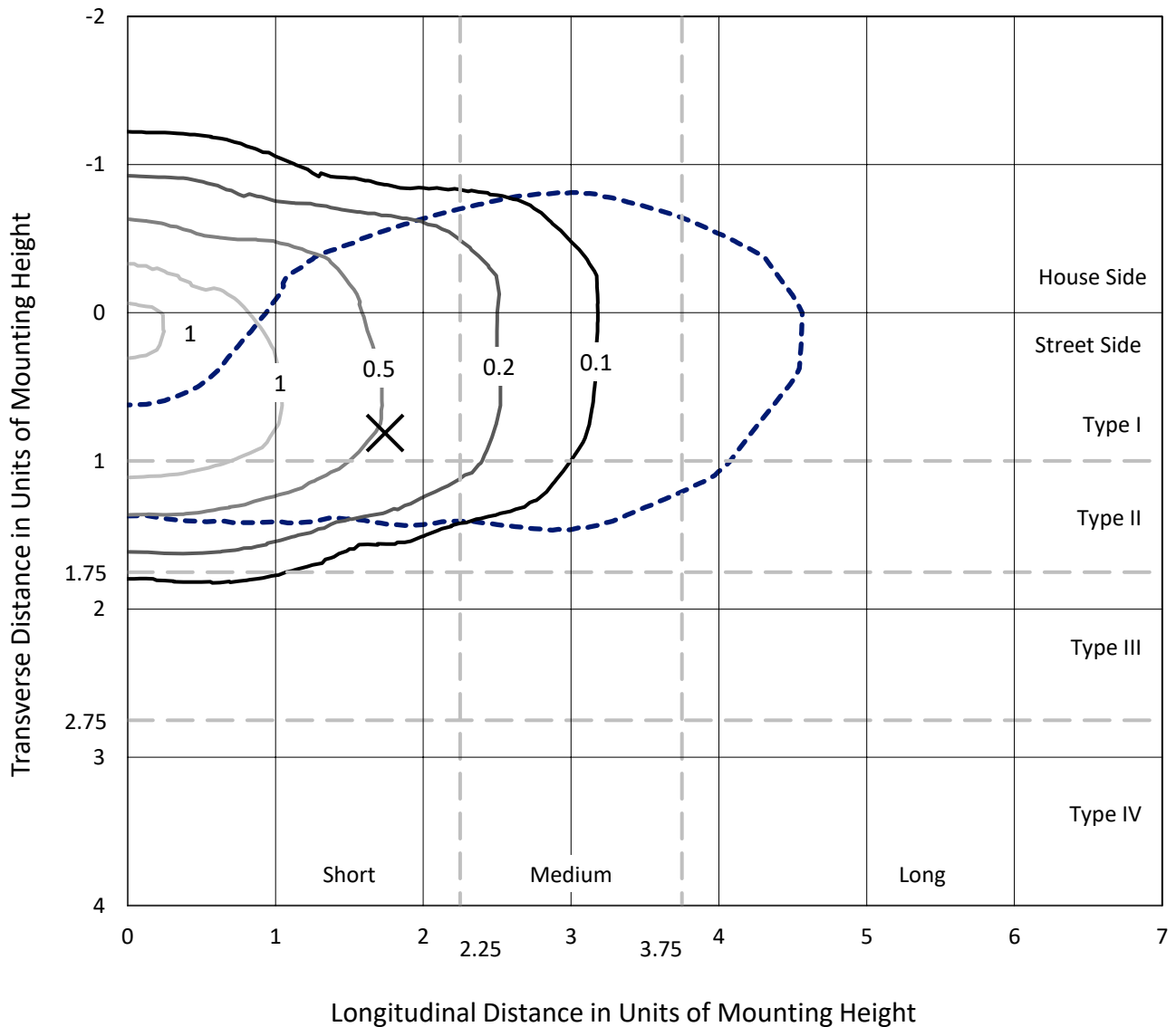
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

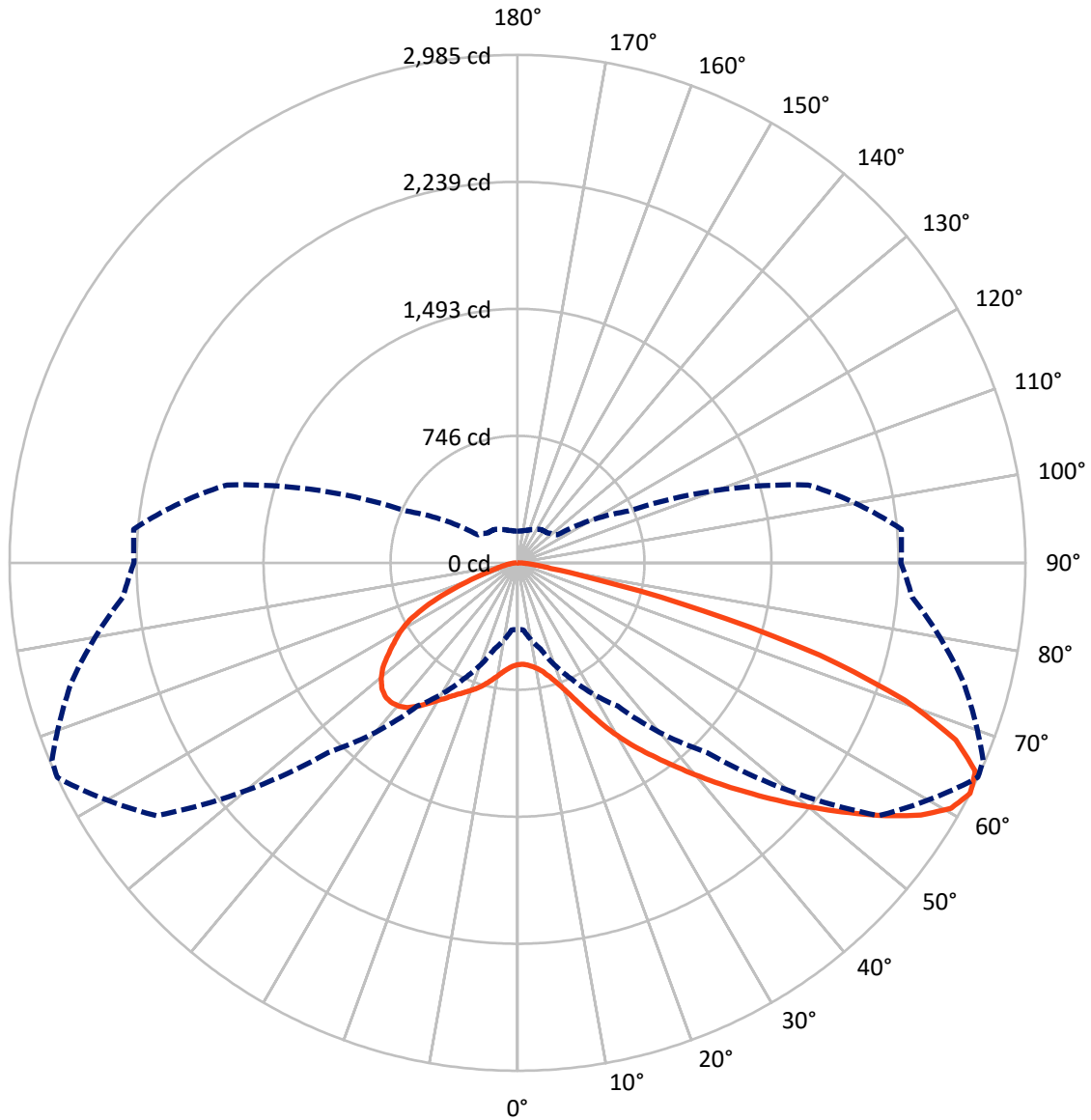
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1712.6   | 0.0    | 1712.6 |
|                    | % Fixture | 31.6     | 0.0    | 31.6   |
| <b>Street Side</b> | Lumens    | 3714.7   | 0.0    | 3714.7 |
|                    | % Fixture | 68.4     | 0.0    | 68.4   |
| <b>Total</b>       | Lumens    | 5427.4   | 0.0    | 5427.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 59.6   | 1.1       |
| 10°-20°   | 202.2  | 3.7       |
| 20°-30°   | 410.0  | 7.6       |
| 30°-40°   | 709.5  | 13.1      |
| 40°-50°   | 1073.7 | 19.8      |
| 50°-60°   | 1258.8 | 23.2      |
| 60°-70°   | 1055.3 | 19.4      |
| 70°-80°   | 582.6  | 10.7      |
| 80°-90°   | 75.7   | 1.4       |
| 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°    | 5427.4 | 100.0     |
| 0°-180°   | 5427.4 | 100.0     |

**Coefficient of Utilization**



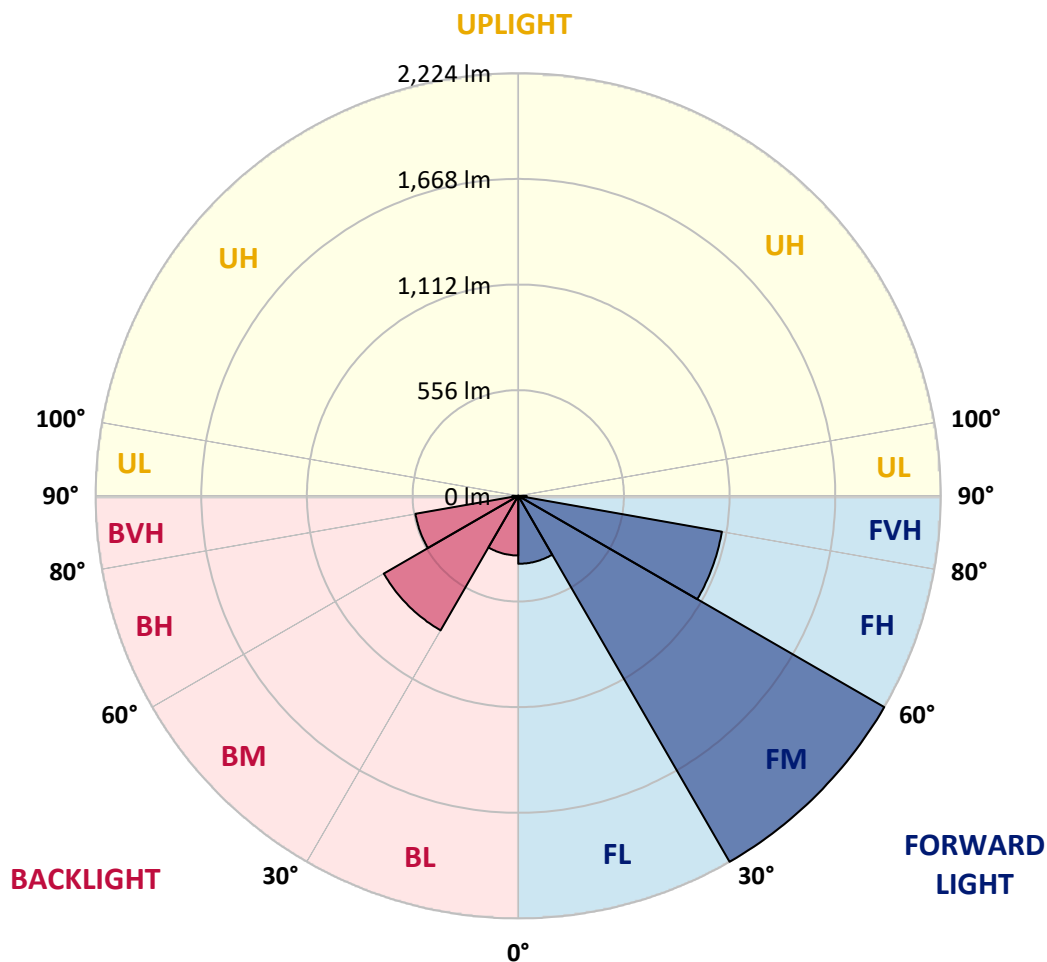
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 357.7  | 6.6       |                         |      |         |
| FM (30°-60°)   | 2224.3 | 41.0      |                         |      |         |
| FH (60°-80°)   | 1088.6 | 20.1      |                         |      | G1/1800 |
| FVH (80°-90°)  | 44.1   | 0.8       |                         |      | G1/100  |
| BL (0°-30°)    | 314.1  | 5.8       | B1/500                  |      |         |
| BM (30°-60°)   | 817.6  | 15.1      | B1/1000                 |      |         |
| BH (60°-80°)   | 549.4  | 10.1      | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 31.6   | 0.6       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 67°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 598.1  | 598.1  | 598.1  | 598.1  | 598.1  | 598.1  | 598.1  | 598.1  | 598.1  | 598.1  | 598.1  |
| 2.5°  | 594.1  | 592.4  | 593.9  | 593.9  | 594.4  | 594.1  | 596.1  | 596.7  | 597.5  | 599.2  | 599.2  |
| 5°    | 588.2  | 587.9  | 590.5  | 592.8  | 595.0  | 597.0  | 599.5  | 603.1  | 603.7  | 605.7  | 608.2  |
| 7.5°  | 586.2  | 584.6  | 588.5  | 591.3  | 596.7  | 601.5  | 608.2  | 614.4  | 616.9  | 617.8  | 622.6  |
| 10°   | 601.5  | 598.6  | 602.3  | 604.0  | 608.5  | 613.3  | 621.2  | 631.0  | 633.9  | 637.2  | 642.6  |
| 12.5° | 627.4  | 624.2  | 629.7  | 632.1  | 636.3  | 640.6  | 646.0  | 655.5  | 656.9  | 663.1  | 668.2  |
| 15°   | 662.9  | 659.2  | 662.6  | 665.6  | 672.7  | 676.6  | 681.9  | 691.3  | 691.3  | 696.1  | 699.8  |
| 17.5° | 710.9  | 706.2  | 708.7  | 709.8  | 714.3  | 720.3  | 729.3  | 737.5  | 741.7  | 739.9  | 734.9  |
| 20°   | 782.8  | 776.8  | 776.8  | 771.2  | 769.6  | 774.4  | 786.2  | 797.4  | 802.0  | 793.2  | 780.8  |
| 22.5° | 890.6  | 882.2  | 877.4  | 858.2  | 850.6  | 851.3  | 863.0  | 876.8  | 880.5  | 865.0  | 837.1  |
| 25°   | 1027.8 | 1014.5 | 1008.1 | 979.9  | 962.7  | 947.8  | 957.0  | 974.8  | 979.9  | 960.7  | 915.7  |
| 27.5° | 1164.9 | 1165.7 | 1159.6 | 1125.8 | 1097.3 | 1070.0 | 1065.2 | 1083.8 | 1089.2 | 1067.4 | 1011.7 |
| 30°   | 1357.2 | 1337.2 | 1325.4 | 1284.8 | 1244.2 | 1206.0 | 1186.3 | 1193.9 | 1195.3 | 1169.4 | 1104.6 |
| 32.5° | 1523.0 | 1518.0 | 1492.6 | 1457.1 | 1405.1 | 1345.1 | 1312.2 | 1300.0 | 1297.8 | 1261.0 | 1184.1 |
| 35°   | 1712.0 | 1709.2 | 1682.4 | 1640.2 | 1583.8 | 1500.5 | 1441.1 | 1406.5 | 1403.6 | 1351.9 | 1262.6 |
| 37.5° | 1904.0 | 1904.0 | 1877.8 | 1831.7 | 1773.4 | 1669.2 | 1578.8 | 1523.9 | 1514.8 | 1447.3 | 1342.5 |
| 40°   | 2057.2 | 2048.0 | 2052.7 | 2033.3 | 1966.6 | 1855.9 | 1731.7 | 1652.0 | 1639.9 | 1558.8 | 1427.6 |
| 42.5° | 2144.2 | 2141.1 | 2169.8 | 2191.6 | 2164.2 | 2075.8 | 1900.0 | 1790.9 | 1774.0 | 1681.6 | 1525.6 |
| 45°   | 2163.7 | 2160.3 | 2211.5 | 2290.9 | 2329.2 | 2292.9 | 2083.1 | 1936.9 | 1916.4 | 1809.9 | 1630.7 |
| 47.5° | 2118.9 | 2112.1 | 2187.4 | 2312.6 | 2435.4 | 2499.3 | 2281.3 | 2095.5 | 2065.7 | 1935.0 | 1738.5 |
| 50°   | 1984.3 | 1977.8 | 2091.6 | 2258.0 | 2471.2 | 2639.5 | 2496.5 | 2263.6 | 2218.0 | 2069.1 | 1847.5 |
| 52.5° | 1691.8 | 1694.8 | 1873.1 | 2101.7 | 2424.1 | 2726.8 | 2681.7 | 2440.7 | 2385.8 | 2206.2 | 1949.7 |
| 55°   | 1317.7 | 1324.5 | 1543.6 | 1795.4 | 2236.0 | 2713.6 | 2808.2 | 2623.2 | 2568.5 | 2335.2 | 2055.2 |
| 57.5° | 943.6  | 973.4  | 1178.6 | 1427.9 | 1874.7 | 2503.8 | 2835.8 | 2796.6 | 2743.7 | 2475.9 | 2158.5 |
| 60°   | 611.6  | 616.9  | 828.1  | 1079.3 | 1427.6 | 2131.0 | 2779.7 | 2928.1 | 2886.7 | 2619.5 | 2245.1 |
| 62.5° | 392.0  | 395.6  | 524.3  | 754.9  | 1027.5 | 1576.6 | 2591.1 | 2985.3 | 2972.6 | 2714.4 | 2328.1 |
| 65°   | 288.0  | 285.3  | 352.3  | 499.0  | 692.1  | 972.3  | 2224.8 | 2957.7 | 2982.7 | 2773.9 | 2396.8 |
| 67.5° | 240.5  | 236.6  | 269.5  | 345.5  | 509.9  | 552.2  | 1646.2 | 2778.4 | 2870.1 | 2767.1 | 2447.2 |
| 70°   | 219.0  | 215.7  | 235.6  | 256.6  | 397.9  | 369.7  | 829.8  | 2415.4 | 2556.8 | 2690.2 | 2439.0 |
| 72.5° | 185.5  | 179.7  | 206.9  | 227.8  | 309.4  | 283.5  | 343.0  | 1855.4 | 2027.7 | 2443.8 | 2324.2 |
| 75°   | 143.9  | 139.9  | 163.3  | 200.5  | 232.6  | 221.3  | 216.8  | 1126.6 | 1314.7 | 1890.0 | 2033.3 |
| 77.5° | 114.1  | 108.6  | 130.1  | 156.3  | 209.2  | 167.0  | 158.0  | 485.1  | 671.6  | 1206.5 | 1521.4 |
| 80°   | 85.9   | 81.1   | 98.8   | 123.6  | 160.8  | 125.9  | 102.2  | 197.9  | 253.2  | 611.3  | 765.1  |
| 82.5° | 61.1   | 56.9   | 69.0   | 90.7   | 108.1  | 113.0  | 62.8   | 110.9  | 124.7  | 235.6  | 170.9  |
| 85°   | 39.2   | 36.6   | 46.2   | 56.9   | 68.7   | 72.7   | 38.3   | 58.0   | 63.7   | 97.2   | 71.2   |
| 87.5° | 21.4   | 17.4   | 24.8   | 26.4   | 31.8   | 29.0   | 18.3   | 21.1   | 22.9   | 35.2   | 30.1   |
| 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°    | 598.1  | 598.1  | 598.1  | 598.1  | 598.1 | 598.1 | 598.1 | 598.1 | 598.1 | 598.1 | 598.1 |
| 2.5°  | 600.3  | 601.2  | 604.0  | 604.9  | 606.8 | 609.4 | 611.0 | 612.7 | 612.7 | 614.4 | 614.4 |
| 5°    | 608.5  | 610.5  | 616.3  | 619.5  | 624.5 | 629.7 | 632.7 | 636.3 | 638.6 | 639.7 | 640.3 |
| 7.5°  | 624.2  | 627.4  | 635.8  | 641.1  | 649.8 | 656.9 | 661.7 | 666.8 | 667.9 | 671.0 | 669.8 |
| 10°   | 645.6  | 649.3  | 658.9  | 669.0  | 679.5 | 688.2 | 692.7 | 696.4 | 697.7 | 698.3 | 696.9 |
| 12.5° | 670.1  | 675.5  | 687.9  | 700.3  | 711.2 | 718.8 | 720.0 | 719.1 | 715.2 | 711.9 | 711.9 |
| 15°   | 700.3  | 705.1  | 718.8  | 732.4  | 743.1 | 744.5 | 737.5 | 733.0 | 728.2 | 727.3 | 727.3 |
| 17.5° | 736.4  | 738.8  | 751.5  | 764.8  | 765.6 | 760.9 | 750.4 | 746.2 | 741.7 | 738.6 | 738.8 |
| 20°   | 778.3  | 777.5  | 786.5  | 792.1  | 786.2 | 771.5 | 755.7 | 748.8 | 744.3 | 740.6 | 740.9 |
| 22.5° | 828.4  | 821.9  | 820.8  | 819.4  | 803.6 | 773.0 | 751.5 | 742.5 | 735.4 | 730.4 | 732.1 |
| 25°   | 901.3  | 876.6  | 859.4  | 849.8  | 814.4 | 765.4 | 738.0 | 718.0 | 704.8 | 696.1 | 699.5 |
| 27.5° | 992.6  | 950.9  | 907.5  | 884.2  | 814.4 | 749.9 | 705.4 | 673.0 | 651.3 | 642.3 | 646.8 |
| 30°   | 1079.5 | 1036.0 | 972.0  | 925.6  | 812.3 | 724.5 | 652.7 | 607.6 | 582.3 | 573.3 | 578.6 |
| 32.5° | 1153.9 | 1106.3 | 1040.5 | 970.9  | 807.6 | 683.4 | 587.3 | 537.5 | 513.0 | 502.4 | 507.7 |
| 35°   | 1222.9 | 1172.2 | 1109.2 | 1020.7 | 794.9 | 623.1 | 515.6 | 477.5 | 450.3 | 433.1 | 438.7 |
| 37.5° | 1293.6 | 1233.3 | 1174.1 | 1065.8 | 772.1 | 552.8 | 460.4 | 428.0 | 395.9 | 372.8 | 379.0 |
| 40°   | 1370.4 | 1298.4 | 1243.7 | 1092.5 | 734.6 | 485.7 | 417.6 | 388.1 | 353.9 | 329.4 | 334.3 |
| 42.5° | 1460.3 | 1376.4 | 1321.1 | 1106.3 | 683.4 | 438.2 | 389.7 | 360.7 | 328.6 | 308.6 | 312.5 |
| 45°   | 1554.0 | 1462.3 | 1391.8 | 1106.1 | 626.3 | 415.8 | 380.7 | 352.0 | 316.5 | 295.6 | 299.0 |
| 47.5° | 1652.3 | 1552.1 | 1452.9 | 1088.0 | 576.7 | 419.0 | 375.7 | 333.1 | 294.0 | 273.7 | 276.5 |
| 50°   | 1750.9 | 1650.4 | 1512.1 | 1054.2 | 555.6 | 412.3 | 356.8 | 306.7 | 260.5 | 242.2 | 243.3 |
| 52.5° | 1848.6 | 1754.8 | 1563.0 | 1006.0 | 534.1 | 387.1 | 332.5 | 272.2 | 246.6 | 234.0 | 234.0 |
| 55°   | 1946.9 | 1858.1 | 1618.5 | 935.9  | 480.6 | 357.9 | 292.0 | 259.3 | 235.6 | 224.2 | 223.0 |
| 57.5° | 2045.4 | 1977.5 | 1671.2 | 865.8  | 413.4 | 321.8 | 269.8 | 243.5 | 224.7 | 214.8 | 213.2 |
| 60°   | 2147.9 | 2114.1 | 1725.5 | 801.3  | 346.9 | 275.6 | 253.4 | 230.9 | 211.8 | 200.8 | 199.9 |
| 62.5° | 2253.5 | 2264.4 | 1768.0 | 718.3  | 285.8 | 247.5 | 238.8 | 215.7 | 197.1 | 186.7 | 186.4 |
| 65°   | 2360.0 | 2409.5 | 1795.9 | 603.1  | 231.8 | 220.8 | 223.0 | 199.1 | 180.2 | 171.2 | 170.9 |
| 67.5° | 2440.1 | 2513.9 | 1788.0 | 456.4  | 190.0 | 195.4 | 203.3 | 181.6 | 163.9 | 156.8 | 157.1 |
| 70°   | 2449.1 | 2501.5 | 1710.3 | 312.5  | 159.1 | 170.7 | 181.3 | 164.4 | 146.2 | 141.0 | 141.3 |
| 72.5° | 2329.2 | 2332.6 | 1493.7 | 204.2  | 134.6 | 149.8 | 158.3 | 147.0 | 129.3 | 124.1 | 123.9 |
| 75°   | 2014.7 | 1929.0 | 1096.8 | 134.6  | 112.6 | 128.6 | 136.5 | 128.6 | 111.5 | 112.6 | 108.6 |
| 77.5° | 1526.4 | 1366.2 | 665.9  | 95.7   | 94.1  | 108.1 | 118.8 | 113.2 | 98.5  | 110.7 | 97.4  |
| 80°   | 786.5  | 739.1  | 297.0  | 71.5   | 74.3  | 86.4  | 97.7  | 90.4  | 78.0  | 74.3  | 67.9  |
| 82.5° | 180.2  | 209.5  | 117.2  | 51.2   | 53.8  | 62.2  | 74.6  | 67.9  | 56.1  | 47.4  | 46.7  |
| 85°   | 63.0   | 69.0   | 51.8   | 32.1   | 31.6  | 38.8  | 50.6  | 45.3  | 38.0  | 30.4  | 32.1  |
| 87.5° | 20.0   | 26.1   | 19.5   | 12.9   | 13.5  | 17.4  | 23.4  | 21.4  | 17.7  | 11.6  | 12.1  |
| 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)