

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: P961056

Luminaire Tested: **NVN-SB1D-835-U-SL3**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P961056  
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-SB1D-835-U-SL3  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 3500K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 9458.7 lumens  
Efficiency: N/A  
Efficacy: 118.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 79.6  
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

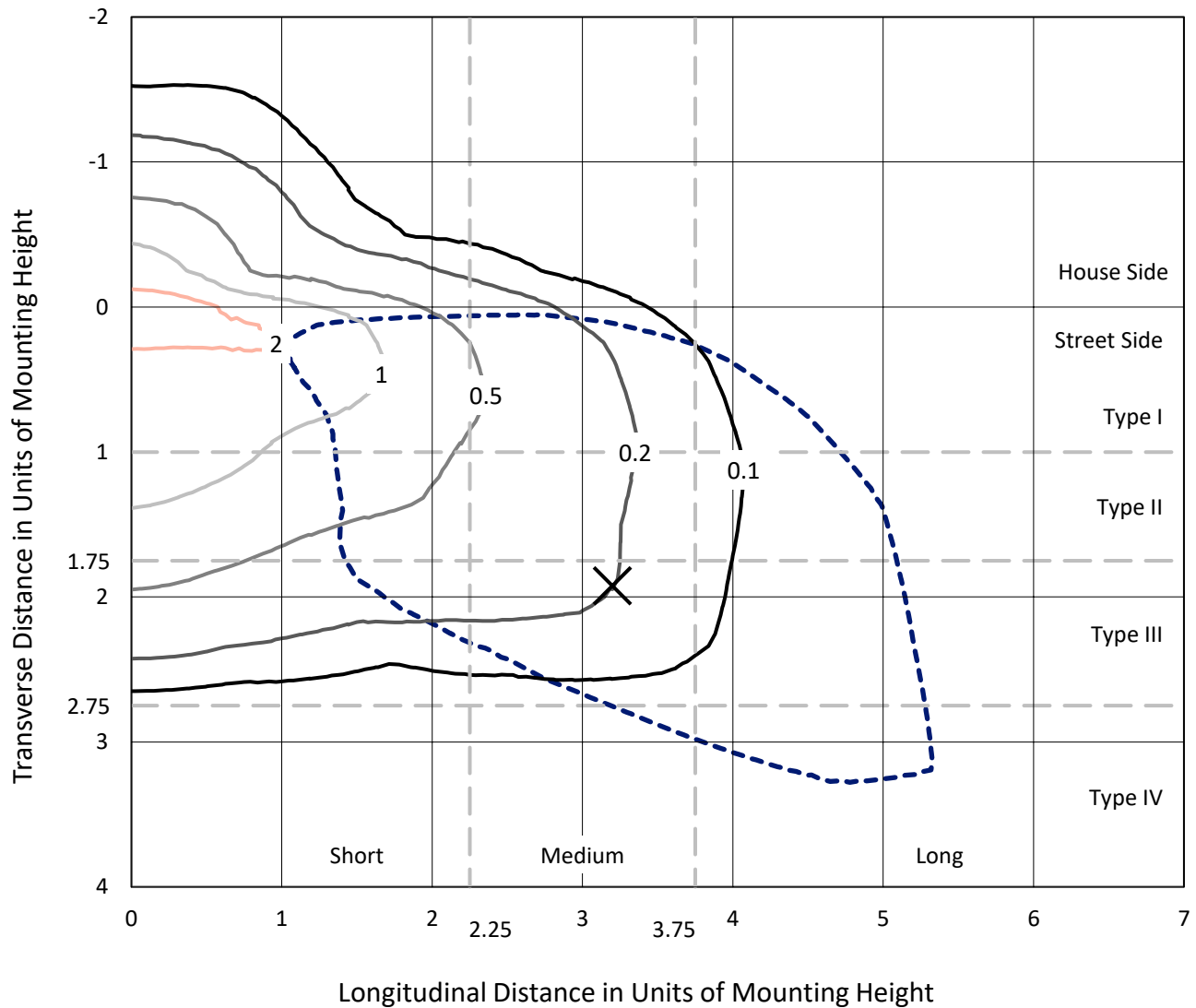


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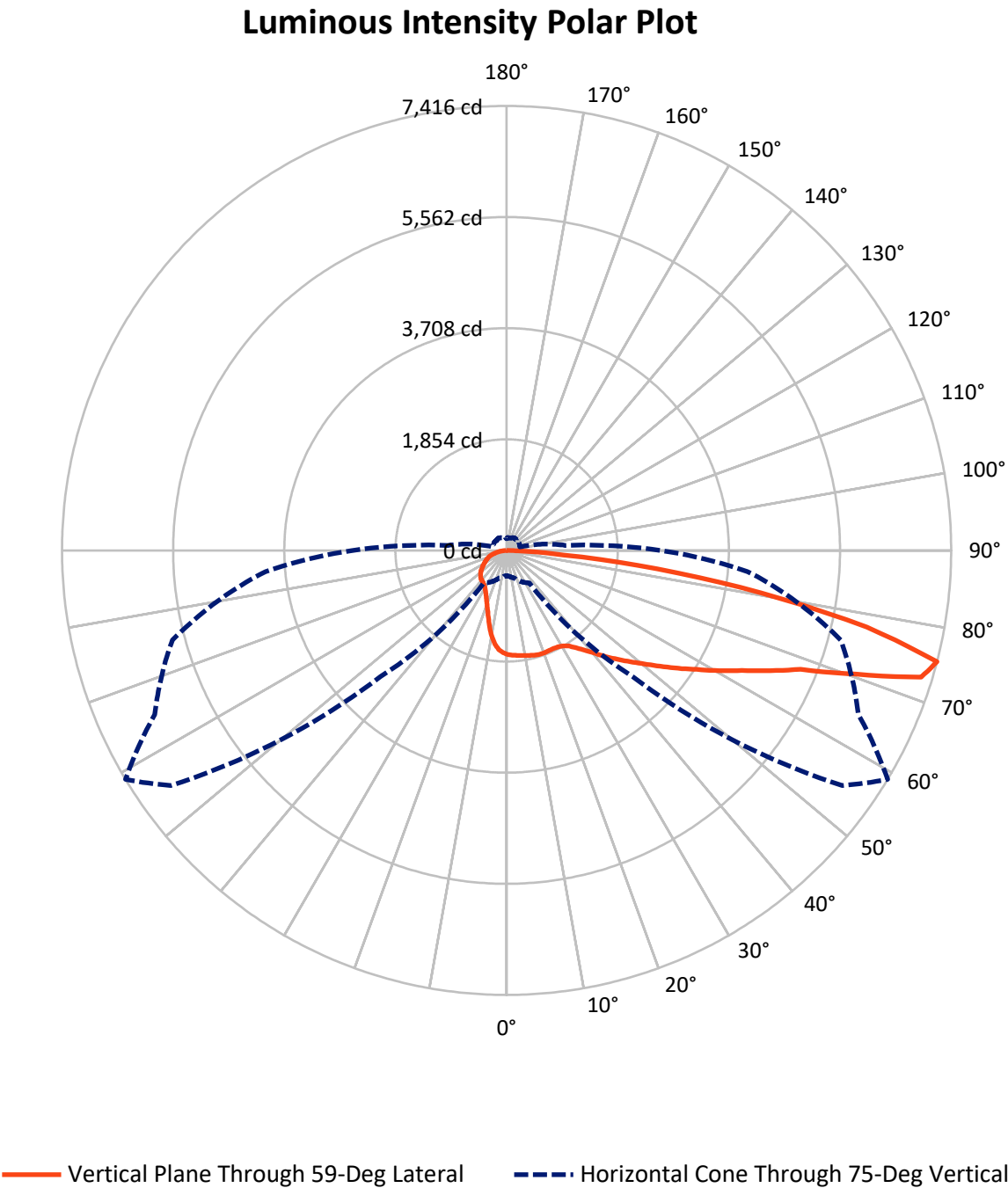
## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc  
Type IV - Medium - N/A

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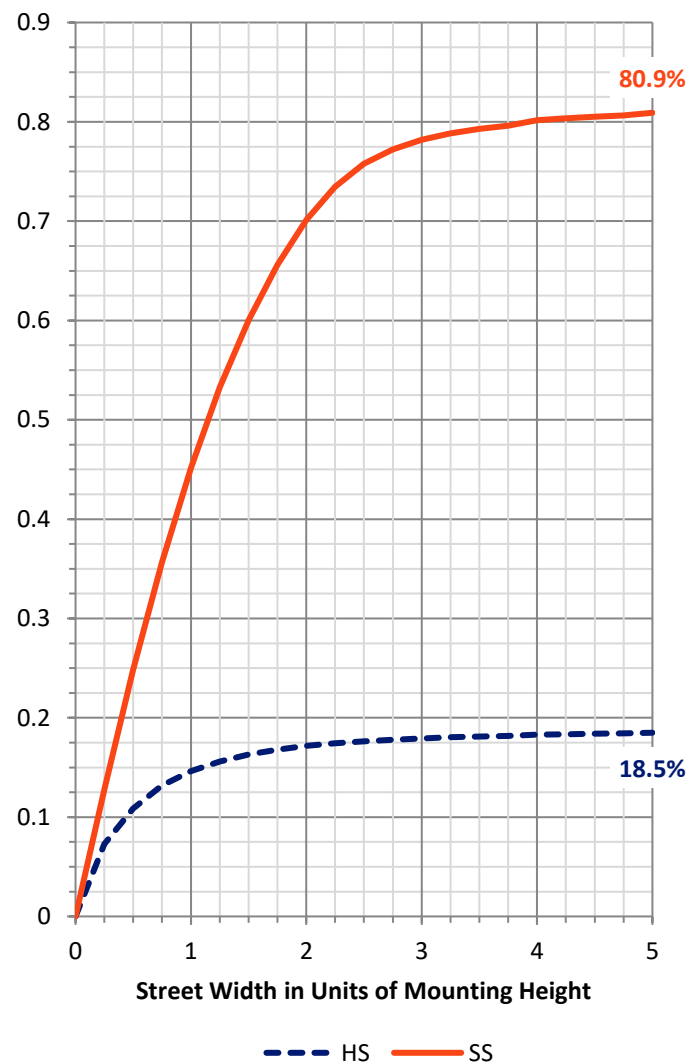
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1774.0   | 0.0    | 1774.0 |
|                    | % Fixture | 18.8     | 0.0    | 18.8   |
| <b>Street Side</b> | Lumens    | 7684.7   | 0.0    | 7684.7 |
|                    | % Fixture | 81.2     | 0.0    | 81.2   |
| <b>Total</b>       | Lumens    | 9458.7   | 0.0    | 9458.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 155.7  | 1.6       |
| 10°-20°   | 397.9  | 4.2       |
| 20°-30°   | 604.4  | 6.4       |
| 30°-40°   | 898.4  | 9.5       |
| 40°-50°   | 1336.1 | 14.1      |
| 50°-60°   | 1813.6 | 19.2      |
| 60°-70°   | 2214.1 | 23.4      |
| 70°-80°   | 1737.6 | 18.4      |
| 80°-90°   | 301.0  | 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°    | 9458.7 | 100.0     |
| 0°-180°   | 9458.7 | 100.0     |

**Coefficient of Utilization**



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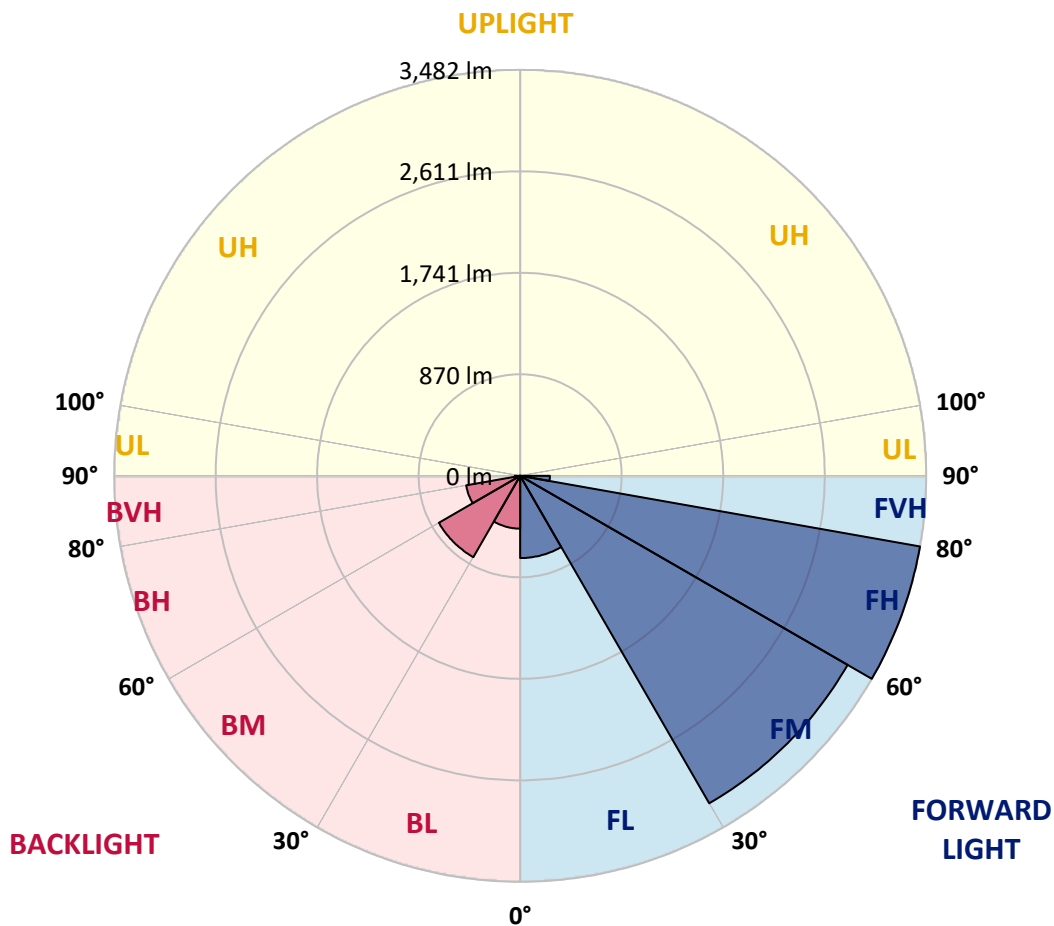
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 705.2  | 7.5       |                         |      |         |
| FM   | (30°-60°)   | 3242.8 | 34.3      |                         |      |         |
| FH   | (60°-80°)   | 3481.7 | 36.8      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 254.9  | 2.7       |                         |      | G3/500  |
| BL   | (0°-30°)    | 452.7  | 4.8       | B1/500                  |      |         |
| BM   | (30°-60°)   | 805.2  | 8.5       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 470.0  | 5.0       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 46.1   | 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-G3**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 59°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1736.1 | 1736.1 | 1736.1 | 1736.1 | 1736.1 | 1736.1 | 1736.1 | 1736.1 | 1736.1 | 1736.1 | 1736.1 |
| 2.5°  | 1750.9 | 1744.8 | 1750.9 | 1748.3 | 1747.3 | 1745.3 | 1745.8 | 1749.4 | 1747.3 | 1749.9 | 1741.2 |
| 5°    | 1739.2 | 1735.6 | 1741.7 | 1740.2 | 1746.8 | 1747.8 | 1754.4 | 1758.5 | 1761.1 | 1761.6 | 1754.9 |
| 7.5°  | 1719.8 | 1716.3 | 1725.0 | 1732.0 | 1746.3 | 1750.4 | 1764.1 | 1770.7 | 1774.3 | 1780.4 | 1770.7 |
| 10°   | 1649.1 | 1647.6 | 1669.0 | 1696.0 | 1729.5 | 1750.4 | 1771.2 | 1782.5 | 1788.0 | 1804.3 | 1793.1 |
| 12.5° | 1524.0 | 1526.0 | 1554.0 | 1605.9 | 1673.0 | 1740.2 | 1779.4 | 1795.7 | 1804.3 | 1824.7 | 1819.6 |
| 15°   | 1404.4 | 1403.8 | 1434.4 | 1489.8 | 1583.9 | 1695.5 | 1783.4 | 1811.4 | 1826.1 | 1856.2 | 1852.2 |
| 17.5° | 1335.2 | 1333.1 | 1354.5 | 1396.8 | 1484.3 | 1626.7 | 1773.2 | 1820.1 | 1851.7 | 1889.3 | 1885.7 |
| 20°   | 1322.5 | 1318.4 | 1329.5 | 1350.4 | 1412.6 | 1551.4 | 1746.8 | 1820.1 | 1872.0 | 1920.8 | 1918.8 |
| 22.5° | 1368.8 | 1362.1 | 1357.5 | 1355.0 | 1382.5 | 1489.3 | 1716.8 | 1813.9 | 1902.0 | 1966.2 | 1962.6 |
| 25°   | 1461.9 | 1451.7 | 1428.2 | 1405.4 | 1397.3 | 1461.3 | 1690.3 | 1812.4 | 1946.8 | 2027.1 | 2013.9 |
| 27.5° | 1612.4 | 1599.7 | 1552.5 | 1497.5 | 1448.1 | 1475.6 | 1678.6 | 1821.6 | 1996.1 | 2091.8 | 2065.4 |
| 30°   | 1799.2 | 1785.4 | 1726.0 | 1641.4 | 1553.0 | 1528.5 | 1693.4 | 1848.6 | 2059.2 | 2177.8 | 2125.8 |
| 32.5° | 1966.7 | 1951.4 | 1900.5 | 1814.5 | 1694.9 | 1620.1 | 1740.2 | 1899.9 | 2158.4 | 2297.3 | 2217.0 |
| 35°   | 2115.2 | 2097.4 | 2051.6 | 1972.2 | 1868.9 | 1748.9 | 1824.7 | 1991.1 | 2299.4 | 2491.8 | 2340.6 |
| 37.5° | 2260.7 | 2239.8 | 2190.0 | 2106.1 | 2033.8 | 1920.3 | 1941.1 | 2108.1 | 2486.6 | 2727.8 | 2504.5 |
| 40°   | 2423.5 | 2393.6 | 2333.0 | 2250.1 | 2179.9 | 2121.3 | 2094.4 | 2251.6 | 2677.0 | 2991.4 | 2709.0 |
| 42.5° | 2581.3 | 2552.8 | 2480.5 | 2409.8 | 2321.8 | 2305.0 | 2271.9 | 2419.5 | 2885.1 | 3280.9 | 2916.6 |
| 45°   | 2751.2 | 2717.2 | 2629.6 | 2540.1 | 2484.6 | 2427.1 | 2443.9 | 2587.4 | 3089.1 | 3576.0 | 3134.3 |
| 47.5° | 2910.5 | 2872.4 | 2769.0 | 2669.3 | 2638.8 | 2529.9 | 2601.7 | 2772.1 | 3301.3 | 3875.2 | 3350.1 |
| 50°   | 2996.5 | 2958.9 | 2872.9 | 2782.8 | 2758.9 | 2656.6 | 2772.6 | 2975.2 | 3523.6 | 4173.4 | 3557.3 |
| 52.5° | 3068.2 | 3027.5 | 2915.1 | 2865.2 | 2858.1 | 2794.5 | 2983.3 | 3207.1 | 3746.0 | 4437.0 | 3757.2 |
| 55°   | 3144.6 | 3099.3 | 2955.8 | 2911.0 | 2943.6 | 2949.1 | 3233.1 | 3470.2 | 3981.1 | 4694.0 | 3945.9 |
| 57.5° | 3232.5 | 3175.0 | 2994.9 | 2949.6 | 3027.0 | 3130.4 | 3520.1 | 3743.0 | 4212.0 | 4932.1 | 4113.8 |
| 60°   | 3315.6 | 3257.6 | 3070.3 | 3011.2 | 3117.1 | 3340.5 | 3849.3 | 4073.1 | 4473.6 | 5144.3 | 4272.6 |
| 62.5° | 3331.8 | 3284.0 | 3130.4 | 3129.8 | 3239.2 | 3585.8 | 4239.1 | 4406.5 | 4702.1 | 5353.9 | 4415.1 |
| 65°   | 3049.9 | 3019.9 | 2928.8 | 3125.2 | 3414.3 | 3938.9 | 4673.1 | 4832.9 | 4992.7 | 5537.0 | 4540.2 |
| 67.5° | 2321.3 | 2325.3 | 2318.8 | 2697.8 | 3272.8 | 4446.1 | 5301.5 | 5289.3 | 5351.3 | 5742.7 | 4684.2 |
| 70°   | 1061.4 | 1085.4 | 1241.1 | 1862.3 | 2622.0 | 4504.7 | 6340.5 | 6182.3 | 5801.7 | 6008.8 | 4808.9 |
| 72.5° | 573.5  | 591.7  | 655.4  | 902.1  | 1576.3 | 4005.0 | 7117.0 | 7229.4 | 6400.5 | 6187.8 | 4672.1 |
| 75°   | 420.8  | 431.0  | 475.3  | 573.5  | 661.9  | 2976.6 | 6838.7 | 7415.7 | 6475.3 | 5770.1 | 4034.5 |
| 77.5° | 315.0  | 319.6  | 355.7  | 454.4  | 338.9  | 1569.3 | 5464.3 | 6141.6 | 5543.2 | 4740.7 | 2980.2 |
| 80°   | 228.5  | 233.6  | 260.6  | 340.9  | 237.6  | 574.0  | 3752.1 | 4310.8 | 3796.4 | 3021.9 | 1485.2 |
| 82.5° | 157.7  | 159.8  | 171.5  | 232.1  | 165.8  | 222.8  | 2128.9 | 2527.9 | 2119.3 | 1060.4 | 401.0  |
| 85°   | 95.1   | 97.7   | 102.8  | 135.3  | 94.1   | 105.9  | 918.9  | 950.5  | 633.4  | 253.4  | 124.6  |
| 87.5° | 39.2   | 41.7   | 45.8   | 57.0   | 37.1   | 29.5   | 151.6  | 190.3  | 118.6  | 74.3   | 38.6   |
| 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°    | 1736.1 | 1736.1 | 1736.1 | 1736.1 | 1736.1 | 1736.1 | 1736.1 | 1736.1 | 1736.1 | 1736.1 | 1736.1 |
| 2.5°  | 1738.7 | 1735.1 | 1725.5 | 1712.2 | 1700.0 | 1684.7 | 1678.1 | 1672.5 | 1667.5 | 1657.7 | 1653.2 |
| 5°    | 1749.4 | 1739.7 | 1713.7 | 1680.2 | 1641.9 | 1600.2 | 1559.5 | 1531.6 | 1507.7 | 1489.8 | 1475.1 |
| 7.5°  | 1765.7 | 1747.3 | 1700.0 | 1631.3 | 1543.8 | 1454.3 | 1373.3 | 1315.8 | 1272.5 | 1256.9 | 1229.3 |
| 10°   | 1782.5 | 1760.5 | 1678.1 | 1557.0 | 1405.9 | 1268.0 | 1160.6 | 1101.6 | 1067.0 | 1055.9 | 1038.5 |
| 12.5° | 1802.3 | 1770.2 | 1644.0 | 1453.8 | 1251.7 | 1100.6 | 1007.0 | 972.4  | 954.6  | 948.4  | 950.0  |
| 15°   | 1831.3 | 1778.4 | 1592.6 | 1324.5 | 1104.6 | 978.5  | 917.9  | 894.0  | 884.9  | 884.4  | 886.4  |
| 17.5° | 1853.2 | 1779.9 | 1512.8 | 1186.1 | 991.7  | 904.7  | 854.8  | 845.6  | 851.8  | 860.9  | 864.5  |
| 20°   | 1877.6 | 1766.2 | 1407.9 | 1059.8 | 912.4  | 840.1  | 819.2  | 825.3  | 840.1  | 853.3  | 857.9  |
| 22.5° | 1894.9 | 1741.2 | 1281.2 | 961.7  | 843.7  | 802.9  | 802.0  | 814.7  | 822.8  | 829.4  | 832.9  |
| 25°   | 1910.2 | 1698.9 | 1146.9 | 879.2  | 787.2  | 780.5  | 791.7  | 787.7  | 782.1  | 787.7  | 791.2  |
| 27.5° | 1921.4 | 1632.3 | 1026.8 | 807.0  | 747.4  | 765.3  | 758.7  | 749.5  | 749.0  | 752.0  | 757.2  |
| 30°   | 1917.8 | 1543.2 | 928.1  | 738.3  | 719.4  | 736.8  | 721.0  | 719.4  | 717.9  | 719.4  | 725.1  |
| 32.5° | 1917.8 | 1442.0 | 852.3  | 691.0  | 701.7  | 695.1  | 693.5  | 689.9  | 683.9  | 683.4  | 689.9  |
| 35°   | 1928.4 | 1340.8 | 787.2  | 665.5  | 687.0  | 671.2  | 672.2  | 663.5  | 650.8  | 644.7  | 650.8  |
| 37.5° | 1950.4 | 1259.3 | 722.5  | 653.3  | 660.9  | 660.5  | 656.4  | 641.6  | 619.2  | 599.9  | 606.5  |
| 40°   | 2003.3 | 1235.4 | 678.2  | 647.7  | 648.7  | 654.9  | 644.2  | 615.7  | 564.8  | 533.2  | 537.3  |
| 42.5° | 2086.2 | 1275.6 | 668.6  | 634.0  | 640.6  | 646.7  | 625.9  | 559.8  | 523.6  | 504.7  | 504.7  |
| 45°   | 2191.6 | 1345.8 | 689.4  | 614.2  | 621.3  | 632.0  | 569.9  | 538.3  | 522.0  | 522.5  | 525.1  |
| 47.5° | 2324.8 | 1419.6 | 728.2  | 596.9  | 593.3  | 599.4  | 532.7  | 513.4  | 491.0  | 496.6  | 510.9  |
| 50°   | 2479.0 | 1494.4 | 764.8  | 573.5  | 562.2  | 542.4  | 508.8  | 490.5  | 462.0  | 448.7  | 452.3  |
| 52.5° | 2645.9 | 1566.7 | 779.5  | 545.0  | 528.7  | 505.7  | 492.5  | 470.2  | 435.5  | 413.7  | 413.2  |
| 55°   | 2804.2 | 1632.3 | 763.2  | 510.9  | 495.1  | 477.2  | 475.3  | 461.6  | 424.4  | 393.8  | 393.8  |
| 57.5° | 2953.7 | 1687.3 | 722.5  | 476.2  | 461.0  | 450.3  | 464.0  | 457.5  | 410.6  | 371.5  | 369.4  |
| 60°   | 3080.4 | 1725.0 | 663.5  | 441.2  | 430.5  | 424.9  | 445.8  | 443.7  | 391.2  | 347.6  | 346.0  |
| 62.5° | 3181.2 | 1739.7 | 598.4  | 407.5  | 405.0  | 394.8  | 420.2  | 420.2  | 366.8  | 324.1  | 322.6  |
| 65°   | 3260.1 | 1725.5 | 532.3  | 374.5  | 379.6  | 364.3  | 389.3  | 386.2  | 340.9  | 303.3  | 301.2  |
| 67.5° | 3329.8 | 1678.6 | 459.0  | 341.9  | 353.6  | 334.3  | 356.7  | 349.5  | 312.4  | 282.4  | 280.3  |
| 70°   | 3360.8 | 1569.8 | 375.6  | 309.3  | 323.6  | 304.8  | 324.1  | 310.9  | 280.3  | 260.0  | 255.9  |
| 72.5° | 3111.5 | 1304.6 | 295.6  | 275.3  | 287.5  | 272.2  | 289.0  | 273.8  | 245.8  | 236.6  | 229.0  |
| 75°   | 2574.2 | 979.0  | 227.4  | 238.1  | 247.3  | 235.5  | 246.8  | 235.5  | 210.1  | 216.8  | 197.9  |
| 77.5° | 1869.4 | 660.9  | 174.0  | 199.0  | 203.1  | 196.9  | 206.5  | 193.8  | 171.0  | 169.4  | 161.8  |
| 80°   | 929.7  | 387.2  | 136.3  | 157.2  | 155.7  | 151.6  | 162.9  | 156.7  | 137.4  | 145.5  | 144.0  |
| 82.5° | 269.2  | 165.8  | 99.2   | 110.4  | 107.3  | 108.3  | 116.5  | 119.6  | 179.1  | 177.5  | 181.6  |
| 85°   | 84.5   | 65.1   | 59.6   | 61.6   | 58.5   | 60.1   | 68.7   | 136.3  | 126.2  | 73.8   | 79.8   |
| 87.5° | 21.8   | 22.3   | 14.8   | 15.8   | 16.3   | 19.4   | 21.8   | 82.9   | 39.7   | 25.9   | 27.5   |
| 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)