

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: P962652

Luminaire Tested: **NVN-SB2C-835-U-T3R-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P962652  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB2C-835-U-T3R-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 11854.1 lumens  
Efficiency: N/A  
Efficacy: 117.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 100.9  
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

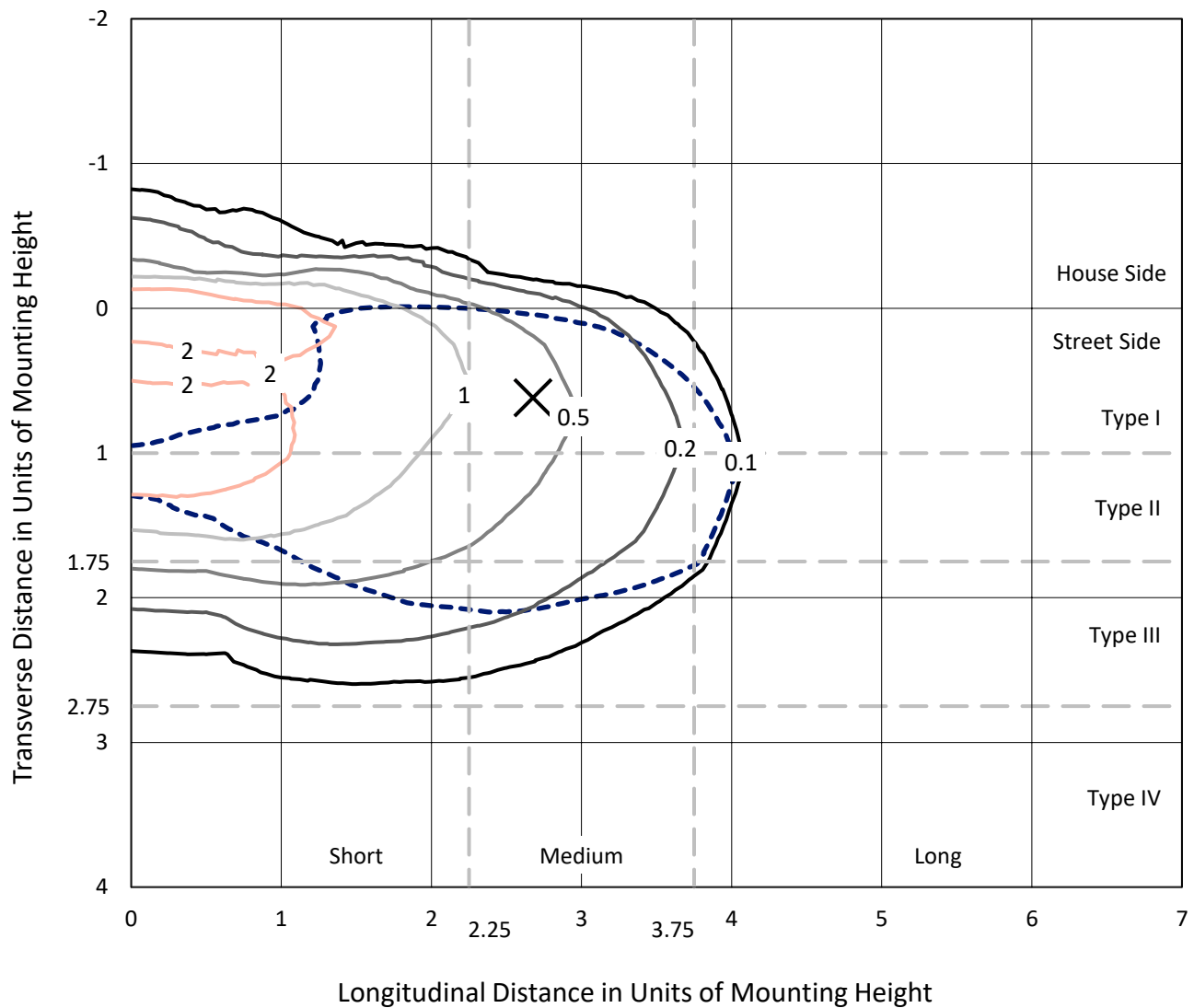


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 --- 1/2 Max cd

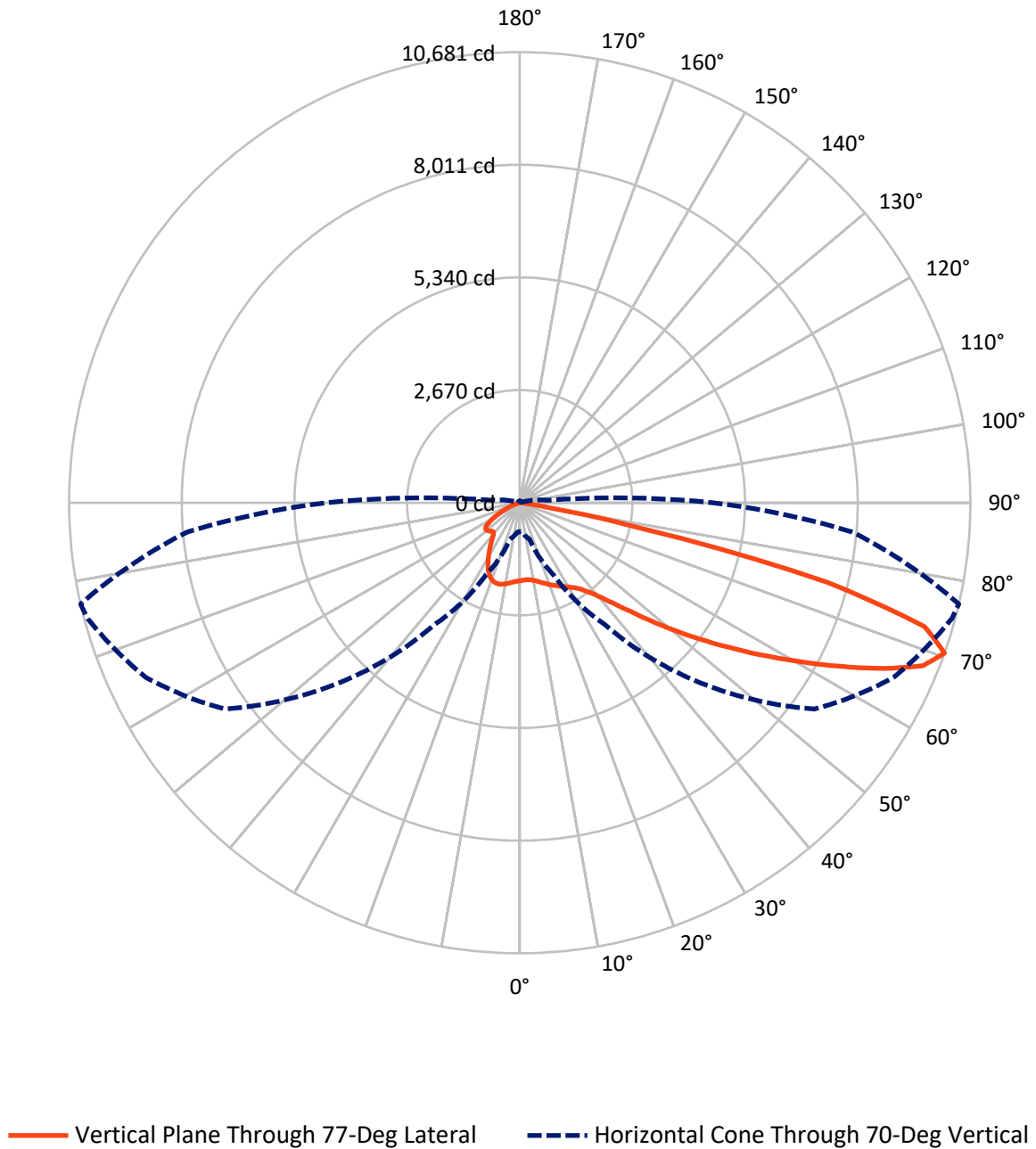


Based on 25 foot mounting height. Maximum calculated value = 3.5 fc  
 Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1249.6   | 0.0    | 1249.6  |
|                    | % Fixture | 10.5     | 0.0    | 10.5    |
| <b>Street Side</b> | Lumens    | 10604.5  | 0.0    | 10604.5 |
|                    | % Fixture | 89.5     | 0.0    | 89.5    |
| <b>Total</b>       | Lumens    | 11854.1  | 0.0    | 11854.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 159.4   | 1.3       |
| 10°-20°   | 378.3   | 3.2       |
| 20°-30°   | 585.1   | 4.9       |
| 30°-40°   | 1061.7  | 9.0       |
| 40°-50°   | 2004.1  | 16.9      |
| 50°-60°   | 2895.8  | 24.4      |
| 60°-70°   | 3082.5  | 26.0      |
| 70°-80°   | 1633.5  | 13.8      |
| 80°-90°   | 53.6    | 0.5       |
| 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°    | 11854.1 | 100.0     |
| 0°-180°   | 11854.1 | 100.0     |

**Coefficient of Utilization**



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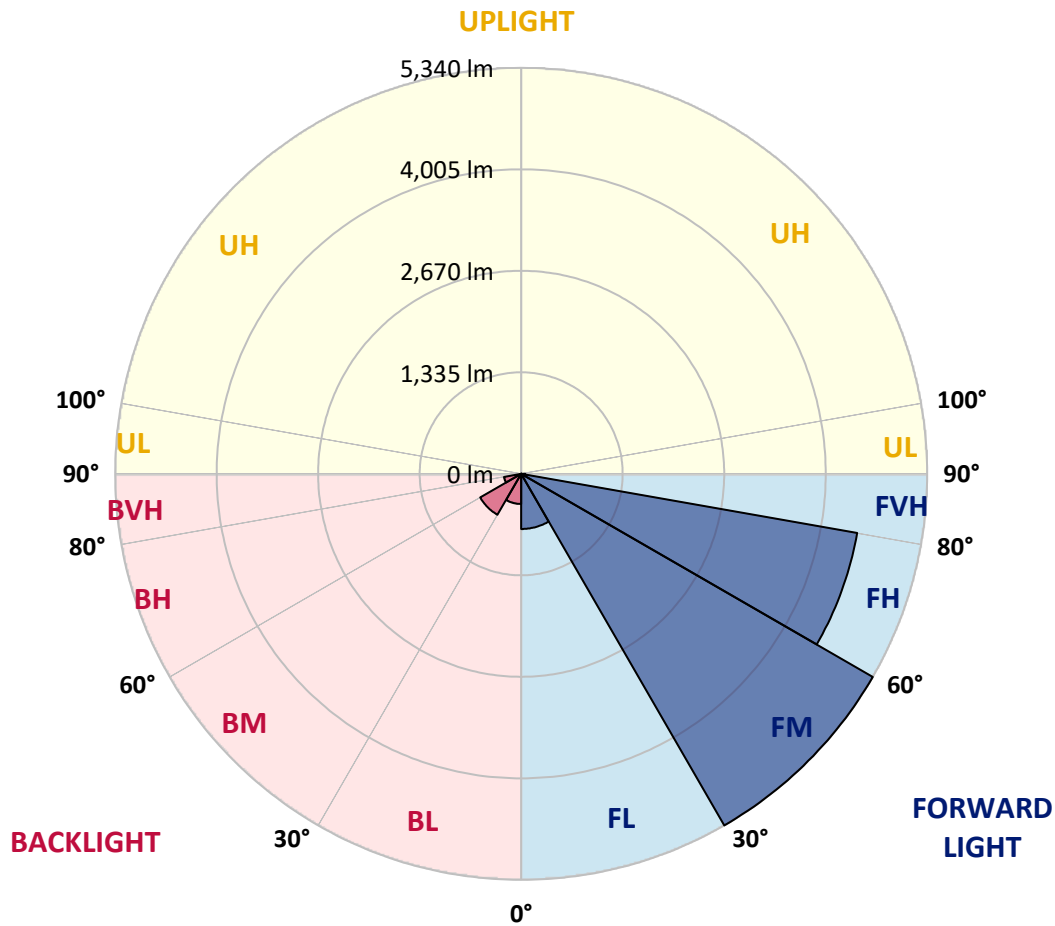
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 725.8  | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 5339.6 | 45.0      |                         |      |         |
| FH   | (60°-80°)   | 4487.0 | 37.9      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 52.2   | 0.4       |                         |      | G1/100  |
| BL   | (0°-30°)    | 397.0  | 3.3       | B1/500                  |      |         |
| BM   | (30°-60°)   | 622.1  | 5.2       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 229.1  | 1.9       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 1.4    | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

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

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°     | 77°     | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|
| 0°    | 1849.0 | 1849.0 | 1849.0 | 1849.0 | 1849.0 | 1849.0 | 1849.0 | 1849.0 | 1849.0  | 1849.0  | 1849.0 |
| 2.5°  | 1736.0 | 1751.7 | 1749.5 | 1759.9 | 1763.7 | 1778.7 | 1793.6 | 1813.8 | 1836.3  | 1835.6  | 1850.5 |
| 5°    | 1637.9 | 1653.6 | 1657.4 | 1671.6 | 1689.6 | 1712.8 | 1743.5 | 1783.9 | 1825.8  | 1832.6  | 1862.5 |
| 7.5°  | 1521.9 | 1538.3 | 1548.1 | 1576.6 | 1609.5 | 1657.4 | 1707.5 | 1766.7 | 1836.3  | 1846.0  | 1903.6 |
| 10°   | 1405.9 | 1420.9 | 1433.6 | 1473.9 | 1526.4 | 1597.5 | 1679.1 | 1764.4 | 1858.0  | 1872.3  | 1953.9 |
| 12.5° | 1334.0 | 1348.2 | 1362.4 | 1397.6 | 1462.8 | 1549.6 | 1660.4 | 1774.9 | 1894.0  | 1914.2  | 2021.9 |
| 15°   | 1308.5 | 1321.2 | 1332.5 | 1364.0 | 1424.5 | 1523.4 | 1656.6 | 1796.6 | 1939.6  | 1966.6  | 2104.3 |
| 17.5° | 1312.3 | 1319.1 | 1326.6 | 1350.4 | 1409.6 | 1511.4 | 1663.4 | 1834.0 | 1993.5  | 2017.5  | 2186.6 |
| 20°   | 1334.0 | 1337.7 | 1338.4 | 1354.9 | 1407.3 | 1509.9 | 1676.9 | 1870.0 | 2044.4  | 2076.6  | 2268.2 |
| 22.5° | 1361.7 | 1363.1 | 1361.7 | 1372.9 | 1421.6 | 1521.1 | 1694.8 | 1913.4 | 2101.4  | 2131.3  | 2350.6 |
| 25°   | 1491.2 | 1462.8 | 1426.8 | 1405.1 | 1445.6 | 1542.8 | 1721.8 | 1971.8 | 2163.5  | 2192.7  | 2430.7 |
| 27.5° | 1893.2 | 1811.6 | 1682.8 | 1538.3 | 1495.0 | 1574.3 | 1759.2 | 2030.9 | 2226.3  | 2252.5  | 2516.8 |
| 30°   | 2546.0 | 2438.9 | 2220.4 | 1894.7 | 1653.6 | 1640.2 | 1807.9 | 2090.1 | 2292.9  | 2321.4  | 2608.8 |
| 32.5° | 3200.3 | 3174.0 | 2921.8 | 2471.1 | 2010.7 | 1786.9 | 1888.7 | 2170.1 | 2381.3  | 2403.7  | 2733.2 |
| 35°   | 3862.0 | 3808.9 | 3602.3 | 3156.8 | 2561.0 | 2085.6 | 2023.5 | 2275.0 | 2497.3  | 2522.7  | 2914.3 |
| 37.5° | 4368.8 | 4336.6 | 4208.6 | 3841.8 | 3213.7 | 2546.7 | 2254.0 | 2437.4 | 2665.7  | 2694.2  | 3146.3 |
| 40°   | 4816.5 | 4801.5 | 4758.0 | 4516.3 | 3943.6 | 3150.1 | 2612.6 | 2689.0 | 2899.3  | 2933.0  | 3430.8 |
| 42.5° | 5168.3 | 5203.5 | 5228.2 | 5160.8 | 4695.9 | 3838.8 | 3094.7 | 3042.3 | 3225.0  | 3259.4  | 3793.1 |
| 45°   | 5528.3 | 5540.3 | 5640.0 | 5737.2 | 5443.1 | 4558.9 | 3638.1 | 3456.3 | 3629.9  | 3672.6  | 4227.3 |
| 47.5° | 5759.7 | 5807.6 | 5982.7 | 6154.2 | 6071.1 | 5273.1 | 4222.1 | 3945.1 | 4099.3  | 4179.4  | 4713.9 |
| 50°   | 5776.9 | 5867.5 | 6108.5 | 6407.3 | 6528.5 | 5952.8 | 4856.9 | 4502.0 | 4666.0  | 4754.4  | 5233.4 |
| 52.5° | 5490.2 | 5630.9 | 6004.4 | 6441.6 | 6775.6 | 6528.5 | 5513.4 | 5059.0 | 5269.3  | 5384.6  | 5772.4 |
| 55°   | 4209.4 | 4393.5 | 5613.0 | 6254.5 | 6785.3 | 6965.0 | 6152.7 | 5639.1 | 5941.6  | 6071.9  | 6354.8 |
| 57.5° | 3667.3 | 3760.2 | 4412.9 | 5929.6 | 6604.9 | 7140.9 | 6730.7 | 6191.6 | 6673.0  | 6834.7  | 6905.0 |
| 60°   | 3051.3 | 3173.3 | 3701.1 | 5398.2 | 6360.0 | 7158.1 | 7241.1 | 6904.3 | 7465.7  | 7647.6  | 7409.6 |
| 62.5° | 2073.6 | 2206.1 | 2730.9 | 4484.8 | 6025.5 | 7149.8 | 7659.6 | 7637.9 | 8346.9  | 8542.2  | 7837.0 |
| 65°   | 1284.6 | 1367.7 | 1713.5 | 3662.1 | 5557.5 | 7158.8 | 8097.5 | 8528.7 | 9276.6  | 9475.0  | 8167.9 |
| 67.5° | 1015.1 | 1053.3 | 1233.7 | 2811.7 | 4751.3 | 6956.7 | 8534.8 | 9366.4 | 10151.7 | 10308.9 | 8269.0 |
| 70°   | 681.9  | 705.2  | 897.6  | 1885.0 | 3534.8 | 6023.9 | 8526.5 | 9787.1 | 10602.4 | 10680.9 | 7900.7 |
| 72.5° | 359.4  | 377.3  | 524.8  | 872.9  | 2135.0 | 4281.9 | 7187.3 | 9284.0 | 10154.0 | 10035.7 | 6753.1 |
| 75°   | 179.7  | 209.6  | 353.3  | 443.2  | 911.7  | 2388.0 | 4463.2 | 7319.7 | 7992.0  | 7533.9  | 4332.9 |
| 77.5° | 136.2  | 164.7  | 291.9  | 291.9  | 317.4  | 804.0  | 1890.2 | 3992.3 | 3682.3  | 3066.3  | 1271.8 |
| 80°   | 86.8   | 112.3  | 255.2  | 220.8  | 132.5  | 204.4  | 492.6  | 1118.4 | 782.3   | 595.1   | 231.3  |
| 82.5° | 50.9   | 73.4   | 212.6  | 146.0  | 74.1   | 75.6   | 139.2  | 238.0  | 202.8   | 158.0   | 71.1   |
| 85°   | 20.2   | 47.9   | 146.0  | 57.6   | 29.2   | 18.8   | 41.9   | 50.9   | 41.9    | 31.5    | 17.9   |
| 87.5° | 0.0    | 11.3   | 25.4   | 0.0    | 2.3    | 1.5    | 3.0    | 3.8    | 3.8     | 3.0     | 5.9    |
| 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°    | 1849.0 | 1849.0 | 1849.0 | 1849.0 | 1849.0 | 1849.0 | 1849.0 | 1849.0 | 1849.0 | 1849.0 | 1849.0 |
| 2.5°  | 1857.3 | 1858.7 | 1863.2 | 1864.0 | 1853.5 | 1840.1 | 1834.9 | 1832.6 | 1823.6 | 1822.9 | 1824.3 |
| 5°    | 1879.7 | 1886.4 | 1879.7 | 1860.3 | 1813.8 | 1748.8 | 1699.3 | 1658.9 | 1622.2 | 1611.0 | 1604.2 |
| 7.5°  | 1924.6 | 1931.4 | 1911.1 | 1834.9 | 1718.0 | 1588.5 | 1471.7 | 1389.4 | 1315.3 | 1287.6 | 1276.3 |
| 10°   | 1989.0 | 1998.0 | 1934.4 | 1780.1 | 1573.6 | 1365.4 | 1167.8 | 1028.6 | 920.0  | 875.9  | 857.1  |
| 12.5° | 2069.9 | 2073.6 | 1947.1 | 1697.1 | 1385.7 | 1088.4 | 808.5  | 659.5  | 562.9  | 527.1  | 515.8  |
| 15°   | 2159.0 | 2153.7 | 1948.6 | 1584.0 | 1129.7 | 769.6  | 527.8  | 433.5  | 394.5  | 382.5  | 382.5  |
| 17.5° | 2252.5 | 2230.8 | 1918.7 | 1420.9 | 848.9  | 526.2  | 391.5  | 369.1  | 362.3  | 359.4  | 358.5  |
| 20°   | 2344.6 | 2295.9 | 1864.0 | 1207.4 | 609.4  | 393.0  | 355.6  | 348.8  | 345.1  | 343.6  | 342.1  |
| 22.5° | 2428.4 | 2345.3 | 1770.4 | 959.7  | 442.4  | 347.4  | 336.1  | 330.2  | 323.4  | 320.4  | 319.7  |
| 25°   | 2510.0 | 2373.8 | 1638.7 | 728.4  | 354.0  | 324.9  | 315.9  | 304.6  | 295.7  | 291.9  | 290.5  |
| 27.5° | 2589.4 | 2391.7 | 1473.9 | 538.9  | 315.9  | 303.9  | 287.4  | 271.7  | 265.0  | 263.5  | 262.0  |
| 30°   | 2674.0 | 2397.8 | 1286.8 | 402.0  | 292.7  | 277.8  | 253.8  | 235.9  | 232.1  | 232.8  | 232.8  |
| 32.5° | 2777.2 | 2406.7 | 1098.2 | 329.3  | 273.3  | 246.3  | 217.8  | 199.2  | 196.1  | 199.2  | 198.3  |
| 35°   | 2900.9 | 2424.7 | 916.2  | 303.2  | 256.0  | 214.1  | 183.4  | 167.7  | 164.7  | 167.0  | 166.2  |
| 37.5° | 3068.4 | 2453.8 | 746.3  | 298.0  | 241.8  | 187.2  | 154.2  | 141.4  | 141.4  | 142.3  | 141.4  |
| 40°   | 3291.6 | 2531.8 | 594.4  | 294.2  | 234.3  | 167.0  | 130.3  | 125.0  | 127.3  | 128.7  | 128.7  |
| 42.5° | 3563.3 | 2697.2 | 491.8  | 289.7  | 226.1  | 158.0  | 118.3  | 116.0  | 119.8  | 121.3  | 121.3  |
| 45°   | 3867.9 | 2906.8 | 455.9  | 282.2  | 218.6  | 163.9  | 113.1  | 110.1  | 114.5  | 115.3  | 116.0  |
| 47.5° | 4183.1 | 3111.9 | 451.4  | 274.0  | 211.2  | 172.9  | 111.5  | 104.8  | 110.1  | 110.8  | 111.5  |
| 50°   | 4502.0 | 3245.9 | 455.9  | 261.3  | 199.2  | 172.9  | 112.3  | 99.5   | 104.0  | 106.3  | 107.0  |
| 52.5° | 4823.2 | 3307.3 | 452.9  | 233.6  | 178.1  | 162.5  | 112.3  | 95.1   | 99.5   | 101.1  | 101.1  |
| 55°   | 5134.6 | 3295.3 | 407.2  | 192.4  | 151.2  | 143.7  | 109.3  | 91.3   | 94.3   | 95.1   | 95.1   |
| 57.5° | 5380.9 | 3128.4 | 322.7  | 149.8  | 122.8  | 119.8  | 99.5   | 86.8   | 89.1   | 88.4   | 88.4   |
| 60°   | 5509.7 | 2761.6 | 230.5  | 115.3  | 96.6   | 94.3   | 87.5   | 80.9   | 82.3   | 78.6   | 77.9   |
| 62.5° | 5511.1 | 2276.5 | 154.2  | 91.3   | 77.1   | 74.8   | 74.8   | 72.6   | 71.1   | 63.7   | 61.4   |
| 65°   | 5393.7 | 1738.2 | 102.6  | 72.6   | 62.1   | 58.4   | 62.8   | 62.1   | 56.9   | 46.4   | 44.9   |
| 67.5° | 5127.2 | 1139.4 | 77.9   | 56.9   | 47.9   | 45.7   | 50.1   | 52.4   | 48.7   | 38.9   | 38.1   |
| 70°   | 4579.2 | 663.3  | 64.4   | 44.2   | 36.0   | 33.7   | 40.4   | 44.9   | 40.4   | 31.5   | 29.9   |
| 72.5° | 3803.6 | 357.8  | 52.4   | 32.9   | 24.7   | 22.4   | 32.2   | 36.7   | 32.2   | 23.2   | 22.4   |
| 75°   | 2468.1 | 191.7  | 40.4   | 21.7   | 12.7   | 14.2   | 24.0   | 27.0   | 22.4   | 15.0   | 13.4   |
| 77.5° | 828.7  | 84.6   | 25.4   | 10.5   | 5.9    | 5.9    | 14.2   | 16.5   | 10.5   | 5.2    | 4.5    |
| 80°   | 184.9  | 35.2   | 10.5   | 4.5    | 2.3    | 2.3    | 3.0    | 3.0    | 1.5    | 0.0    | 0.0    |
| 82.5° | 60.7   | 14.2   | 4.5    | 1.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 23.2   | 5.2    | 1.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 9.0    | 0.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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)