

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: P965532

Luminaire Tested: **NVN-SB4A-722-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P965532  
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-SB4A-722-U-T2U  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15426.2 lumens  
Efficiency: N/A  
Efficacy: 135.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

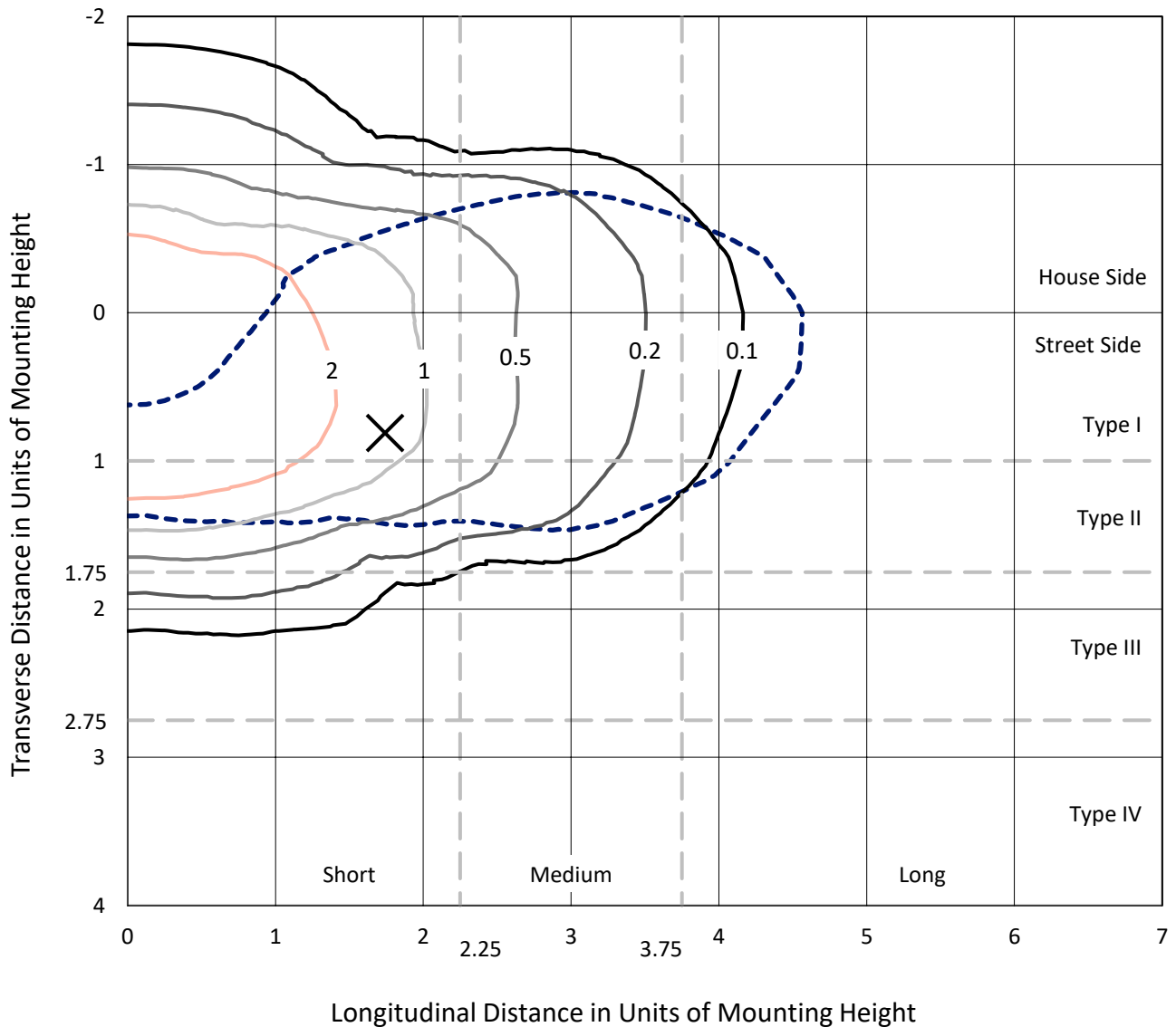
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

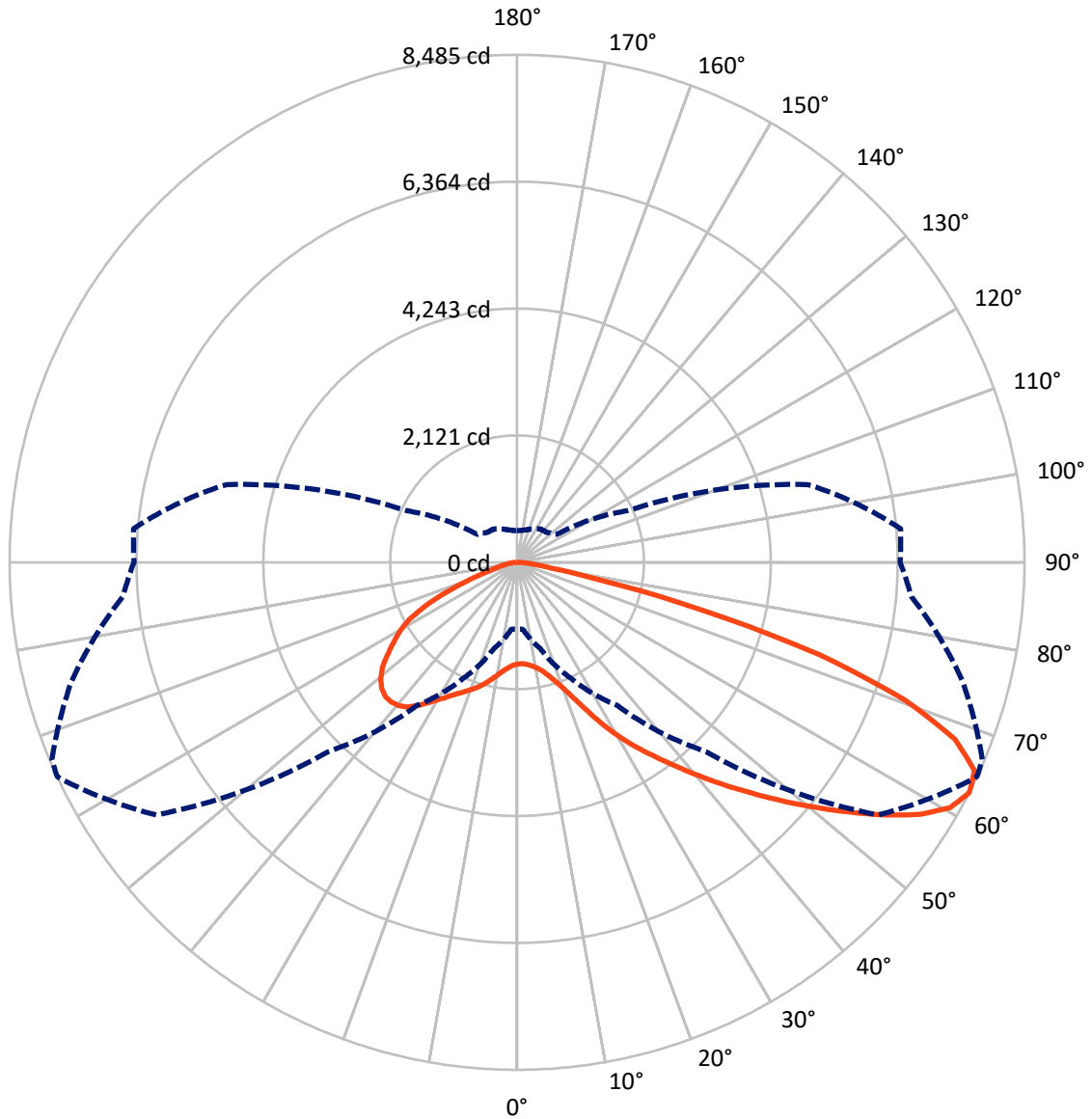
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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    | 4867.8   | 0.0    | 4867.8  |
|                    | % Fixture | 31.6     | 0.0    | 31.6    |
| <b>Street Side</b> | Lumens    | 10558.4  | 0.0    | 10558.4 |
|                    | % Fixture | 68.4     | 0.0    | 68.4    |
| <b>Total</b>       | Lumens    | 15426.2  | 0.0    | 15426.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 169.5   | 1.1       |
| 10°-20°   | 574.7   | 3.7       |
| 20°-30°   | 1165.3  | 7.6       |
| 30°-40°   | 2016.5  | 13.1      |
| 40°-50°   | 3051.6  | 19.8      |
| 50°-60°   | 3577.8  | 23.2      |
| 60°-70°   | 2999.6  | 19.4      |
| 70°-80°   | 1656.0  | 10.7      |
| 80°-90°   | 215.1   | 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°    | 15426.2 | 100.0     |
| 0°-180°   | 15426.2 | 100.0     |

**Coefficient of Utilization**



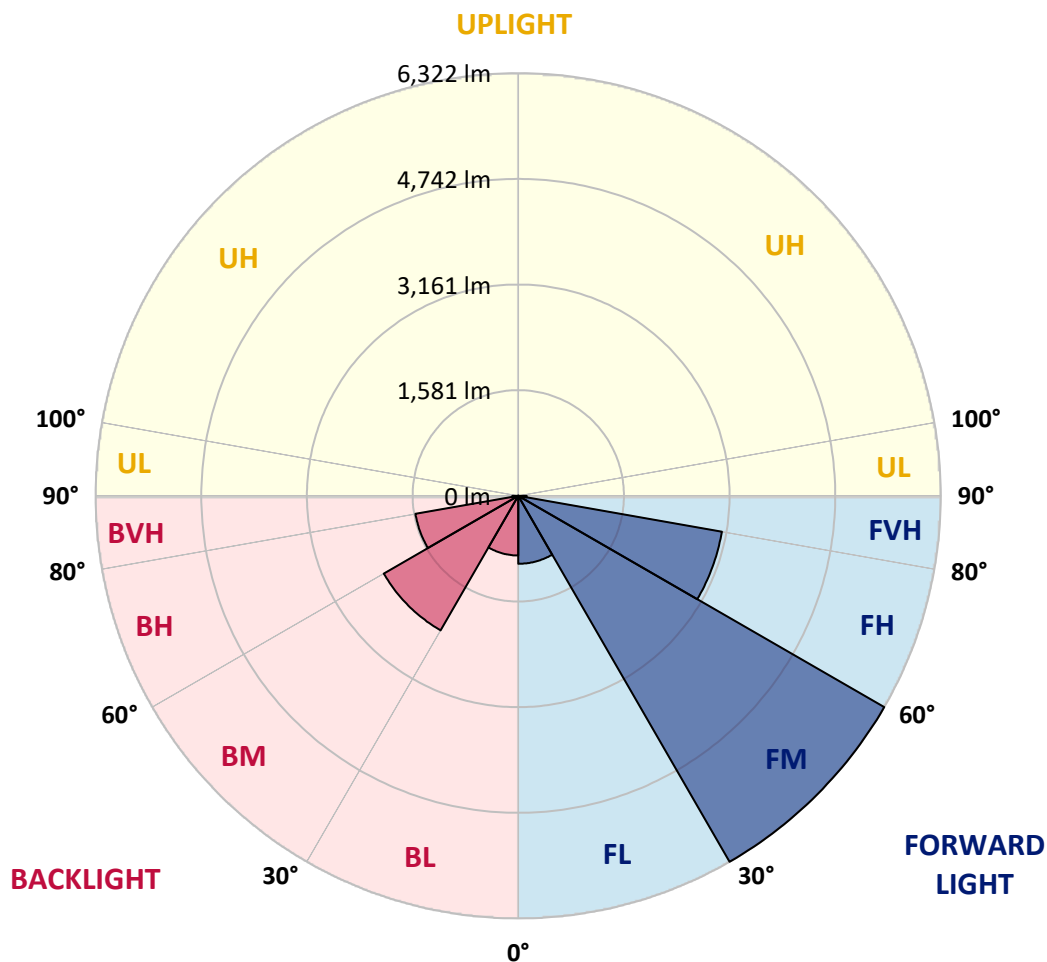
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1016.8 | 6.6       |                         |      |         |
| FM (30°-60°)   | 6322.2 | 41.0      |                         |      |         |
| FH (60°-80°)   | 3094.1 | 20.1      |                         |      | G2/5000 |
| FVH (80°-90°)  | 125.4  | 0.8       |                         |      | G2/225  |
| BL (0°-30°)    | 892.7  | 5.8       | B2/1000                 |      |         |
| BM (30°-60°)   | 2323.8 | 15.1      | B2/2500                 |      |         |
| BH (60°-80°)   | 1561.6 | 10.1      | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 89.7   | 0.6       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 67°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1699.9 | 1699.9 | 1699.9 | 1699.9 | 1699.9 | 1699.9 | 1699.9 | 1699.9 | 1699.9 | 1699.9 | 1699.9 |
| 2.5°  | 1688.7 | 1683.9 | 1687.9 | 1687.9 | 1689.5 | 1688.7 | 1694.3 | 1695.9 | 1698.3 | 1703.1 | 1703.1 |
| 5°    | 1671.9 | 1671.1 | 1678.3 | 1684.7 | 1691.1 | 1696.7 | 1703.9 | 1714.3 | 1716.0 | 1721.5 | 1728.8 |
| 7.5°  | 1666.3 | 1661.5 | 1672.7 | 1680.7 | 1695.9 | 1709.5 | 1728.8 | 1746.3 | 1753.6 | 1755.9 | 1769.6 |
| 10°   | 1709.5 | 1701.5 | 1712.0 | 1716.7 | 1729.5 | 1743.1 | 1765.6 | 1793.5 | 1801.5 | 1811.2 | 1826.3 |
| 12.5° | 1783.1 | 1774.4 | 1789.5 | 1796.7 | 1808.7 | 1820.7 | 1836.0 | 1863.1 | 1867.1 | 1884.8 | 1899.2 |
| 15°   | 1884.0 | 1873.6 | 1883.2 | 1891.9 | 1912.0 | 1923.2 | 1938.4 | 1964.8 | 1964.8 | 1978.5 | 1988.8 |
| 17.5° | 2020.9 | 2007.3 | 2014.4 | 2017.6 | 2030.4 | 2047.2 | 2072.9 | 2096.0 | 2108.1 | 2103.3 | 2088.8 |
| 20°   | 2225.0 | 2208.2 | 2208.2 | 2192.1 | 2187.4 | 2200.9 | 2234.5 | 2266.6 | 2279.4 | 2254.5 | 2219.3 |
| 22.5° | 2531.4 | 2507.5 | 2493.8 | 2439.4 | 2417.8 | 2419.4 | 2453.0 | 2492.2 | 2502.6 | 2458.7 | 2379.4 |
| 25°   | 2921.2 | 2883.6 | 2865.2 | 2785.1 | 2736.3 | 2693.9 | 2720.4 | 2770.8 | 2785.1 | 2730.7 | 2602.7 |
| 27.5° | 3311.0 | 3313.4 | 3295.8 | 3199.7 | 3118.9 | 3041.3 | 3027.6 | 3080.4 | 3095.7 | 3034.1 | 2875.6 |
| 30°   | 3857.6 | 3800.8 | 3767.2 | 3651.9 | 3536.7 | 3427.8 | 3371.8 | 3393.4 | 3397.4 | 3323.8 | 3139.7 |
| 32.5° | 4329.0 | 4314.6 | 4242.6 | 4141.7 | 3993.7 | 3823.1 | 3729.6 | 3695.1 | 3688.8 | 3583.9 | 3365.4 |
| 35°   | 4866.0 | 4858.0 | 4782.0 | 4661.9 | 4501.9 | 4264.9 | 4096.1 | 3997.7 | 3989.6 | 3842.4 | 3588.7 |
| 37.5° | 5411.9 | 5411.9 | 5337.4 | 5206.2 | 5040.5 | 4744.4 | 4487.4 | 4331.4 | 4305.8 | 4113.7 | 3816.0 |
| 40°   | 5847.2 | 5820.8 | 5834.4 | 5779.2 | 5589.5 | 5275.0 | 4922.0 | 4695.5 | 4661.1 | 4430.7 | 4057.7 |
| 42.5° | 6094.5 | 6085.7 | 6167.3 | 6229.0 | 6151.3 | 5900.0 | 5400.6 | 5090.2 | 5042.1 | 4779.6 | 4336.2 |
| 45°   | 6149.8 | 6140.2 | 6285.8 | 6511.5 | 6620.4 | 6517.2 | 5920.8 | 5505.5 | 5447.1 | 5144.6 | 4634.7 |
| 47.5° | 6022.5 | 6003.3 | 6216.9 | 6573.1 | 6922.0 | 7103.8 | 6484.3 | 5956.1 | 5871.2 | 5499.8 | 4941.2 |
| 50°   | 5640.0 | 5621.5 | 5944.9 | 6417.8 | 7023.7 | 7502.3 | 7095.8 | 6433.8 | 6304.3 | 5880.8 | 5251.0 |
| 52.5° | 4808.4 | 4817.2 | 5323.8 | 5973.7 | 6890.0 | 7750.4 | 7622.4 | 6937.3 | 6781.2 | 6270.6 | 5541.5 |
| 55°   | 3745.6 | 3764.7 | 4387.4 | 5103.0 | 6355.4 | 7712.8 | 7981.7 | 7455.8 | 7300.7 | 6637.2 | 5841.6 |
| 57.5° | 2681.9 | 2766.8 | 3350.2 | 4058.5 | 5328.6 | 7116.6 | 8060.2 | 7948.9 | 7798.4 | 7037.3 | 6135.3 |
| 60°   | 1738.3 | 1753.6 | 2353.8 | 3067.7 | 4057.7 | 6056.9 | 7900.9 | 8322.7 | 8205.0 | 7445.5 | 6381.0 |
| 62.5° | 1114.1 | 1124.4 | 1490.2 | 2145.7 | 2920.4 | 4481.1 | 7364.6 | 8485.2 | 8449.1 | 7715.2 | 6617.2 |
| 65°   | 818.8  | 810.8  | 1001.2 | 1418.2 | 1967.2 | 2763.5 | 6323.4 | 8406.6 | 8477.9 | 7884.1 | 6812.5 |
| 67.5° | 683.5  | 672.3  | 765.9  | 982.1  | 1449.5 | 1569.5 | 4678.7 | 7896.9 | 8157.8 | 7864.8 | 6955.6 |
| 70°   | 622.7  | 613.1  | 669.8  | 729.1  | 1130.9 | 1050.8 | 2358.6 | 6865.2 | 7267.0 | 7646.4 | 6932.5 |
| 72.5° | 527.5  | 510.7  | 588.2  | 647.5  | 879.6  | 806.0  | 974.8  | 5273.4 | 5763.2 | 6946.1 | 6605.9 |
| 75°   | 409.0  | 397.8  | 464.2  | 569.8  | 661.1  | 629.0  | 616.2  | 3202.1 | 3736.7 | 5371.8 | 5779.2 |
| 77.5° | 324.1  | 308.9  | 369.7  | 444.2  | 594.6  | 474.6  | 449.0  | 1378.9 | 1908.8 | 3429.4 | 4324.2 |
| 80°   | 244.1  | 230.5  | 281.0  | 351.4  | 456.9  | 357.7  | 290.5  | 562.6  | 719.6  | 1737.5 | 2174.5 |
| 82.5° | 173.6  | 161.6  | 196.1  | 257.7  | 307.3  | 320.9  | 178.5  | 315.3  | 354.5  | 669.8  | 485.8  |
| 85°   | 111.2  | 104.0  | 131.3  | 161.6  | 195.3  | 206.4  | 108.9  | 164.8  | 180.9  | 276.1  | 202.4  |
| 87.5° | 60.8   | 49.6   | 70.4   | 75.2   | 90.4   | 82.4   | 52.1   | 60.1   | 64.8   | 100.0  | 85.6   |
| 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°    | 1699.9 | 1699.9 | 1699.9 | 1699.9 | 1699.9 | 1699.9 | 1699.9 | 1699.9 | 1699.9 | 1699.9 | 1699.9 |
| 2.5°  | 1706.3 | 1708.7 | 1716.7 | 1719.1 | 1724.7 | 1731.9 | 1736.8 | 1741.5 | 1741.5 | 1746.3 | 1746.3 |
| 5°    | 1729.5 | 1735.1 | 1751.9 | 1760.7 | 1775.1 | 1789.5 | 1798.4 | 1808.7 | 1815.2 | 1818.4 | 1820.0 |
| 7.5°  | 1774.4 | 1783.1 | 1807.2 | 1822.3 | 1847.2 | 1867.1 | 1880.8 | 1895.2 | 1898.4 | 1907.2 | 1904.0 |
| 10°   | 1835.2 | 1845.6 | 1872.8 | 1901.6 | 1931.2 | 1956.0 | 1968.8 | 1979.2 | 1983.3 | 1984.8 | 1980.8 |
| 12.5° | 1904.8 | 1920.0 | 1955.2 | 1990.4 | 2021.6 | 2043.2 | 2046.4 | 2044.1 | 2032.9 | 2023.2 | 2023.2 |
| 15°   | 1990.4 | 2004.1 | 2043.2 | 2081.7 | 2112.1 | 2116.1 | 2096.0 | 2083.3 | 2069.7 | 2067.2 | 2067.2 |
| 17.5° | 2092.8 | 2100.1 | 2136.1 | 2173.7 | 2176.1 | 2162.5 | 2132.9 | 2120.9 | 2108.1 | 2099.3 | 2100.1 |
| 20°   | 2212.2 | 2209.7 | 2235.3 | 2251.3 | 2234.5 | 2192.9 | 2148.1 | 2128.1 | 2115.3 | 2104.8 | 2105.7 |
| 22.5° | 2354.5 | 2336.2 | 2333.0 | 2329.0 | 2284.1 | 2196.9 | 2136.1 | 2110.5 | 2090.5 | 2076.0 | 2080.9 |
| 25°   | 2561.9 | 2491.5 | 2442.6 | 2415.4 | 2314.6 | 2175.3 | 2097.7 | 2040.9 | 2003.3 | 1978.5 | 1988.0 |
| 27.5° | 2821.2 | 2702.7 | 2579.5 | 2513.0 | 2314.6 | 2131.3 | 2004.8 | 1912.8 | 1851.2 | 1825.5 | 1838.3 |
| 30°   | 3068.4 | 2944.4 | 2762.8 | 2630.7 | 2308.9 | 2059.2 | 1855.1 | 1727.1 | 1655.1 | 1629.4 | 1644.7 |
| 32.5° | 3279.8 | 3144.5 | 2957.2 | 2759.5 | 2295.4 | 1942.4 | 1669.5 | 1527.9 | 1458.2 | 1427.8 | 1443.0 |
| 35°   | 3475.9 | 3331.8 | 3152.5 | 2901.2 | 2259.3 | 1771.1 | 1465.4 | 1357.4 | 1279.7 | 1230.9 | 1246.9 |
| 37.5° | 3676.8 | 3505.5 | 3337.4 | 3029.3 | 2194.5 | 1571.0 | 1308.5 | 1216.5 | 1125.2 | 1059.6 | 1077.3 |
| 40°   | 3895.2 | 3690.3 | 3535.0 | 3105.3 | 2088.0 | 1380.6 | 1186.8 | 1102.9 | 1006.0 | 936.4  | 950.0  |
| 42.5° | 4150.5 | 3912.0 | 3755.2 | 3144.5 | 1942.4 | 1245.3 | 1107.6 | 1025.2 | 934.0  | 877.2  | 888.4  |
| 45°   | 4417.0 | 4156.2 | 3956.1 | 3143.7 | 1779.9 | 1182.1 | 1082.1 | 1000.4 | 899.5  | 840.4  | 849.9  |
| 47.5° | 4696.3 | 4411.4 | 4129.7 | 3092.5 | 1639.1 | 1190.8 | 1067.6 | 946.8  | 835.6  | 777.9  | 786.0  |
| 50°   | 4976.5 | 4690.7 | 4297.8 | 2996.5 | 1579.0 | 1171.7 | 1014.0 | 871.6  | 740.4  | 688.3  | 691.5  |
| 52.5° | 5254.2 | 4987.6 | 4442.7 | 2859.5 | 1518.2 | 1100.4 | 945.2  | 773.9  | 701.1  | 665.1  | 665.1  |
| 55°   | 5533.5 | 5281.4 | 4600.3 | 2660.3 | 1366.1 | 1017.2 | 829.9  | 737.1  | 669.8  | 637.0  | 633.9  |
| 57.5° | 5813.6 | 5620.7 | 4750.0 | 2461.0 | 1174.9 | 914.8  | 766.7  | 692.3  | 638.7  | 610.7  | 605.9  |
| 60°   | 6104.9 | 6008.9 | 4904.4 | 2277.8 | 986.0  | 783.5  | 720.3  | 656.3  | 601.9  | 570.6  | 568.3  |
| 62.5° | 6405.0 | 6436.3 | 5025.3 | 2041.7 | 812.3  | 703.5  | 678.7  | 613.1  | 560.3  | 530.6  | 529.8  |
| 65°   | 6707.6 | 6848.4 | 5104.5 | 1714.3 | 658.7  | 627.5  | 633.9  | 565.8  | 512.2  | 486.6  | 485.8  |
| 67.5° | 6935.7 | 7145.4 | 5082.2 | 1297.3 | 540.2  | 555.4  | 577.8  | 516.2  | 465.8  | 445.8  | 446.6  |
| 70°   | 6961.3 | 7110.1 | 4861.3 | 888.4  | 452.2  | 485.0  | 515.4  | 467.4  | 415.3  | 401.0  | 401.8  |
| 72.5° | 6620.4 | 6629.9 | 4245.8 | 580.3  | 382.5  | 425.8  | 449.8  | 417.8  | 367.4  | 352.9  | 352.2  |
| 75°   | 5726.4 | 5483.0 | 3117.3 | 382.5  | 320.1  | 365.7  | 388.2  | 365.7  | 316.9  | 320.1  | 308.9  |
| 77.5° | 4338.6 | 3883.2 | 1892.8 | 272.1  | 267.3  | 307.3  | 337.7  | 321.7  | 280.1  | 314.6  | 277.0  |
| 80°   | 2235.3 | 2100.8 | 844.4  | 203.3  | 211.3  | 245.7  | 277.7  | 256.9  | 221.7  | 211.3  | 192.9  |
| 82.5° | 512.2  | 595.4  | 332.9  | 145.7  | 152.8  | 176.9  | 212.1  | 192.9  | 159.3  | 134.5  | 132.8  |
| 85°   | 179.3  | 196.1  | 147.3  | 91.2   | 89.7   | 110.5  | 144.0  | 128.8  | 108.0  | 86.4   | 91.2   |
| 87.5° | 56.8   | 74.4   | 55.2   | 36.8   | 38.4   | 49.6   | 66.4   | 60.8   | 50.4   | 32.8   | 34.4   |
| 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)