

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: P964189

Luminaire Tested: **NVN-SB3B-830-U-SL4**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P964189  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB3B-830-U-SL4  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 15425.2 lumens  
Efficiency: N/A  
Efficacy: 141.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 109.2  
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

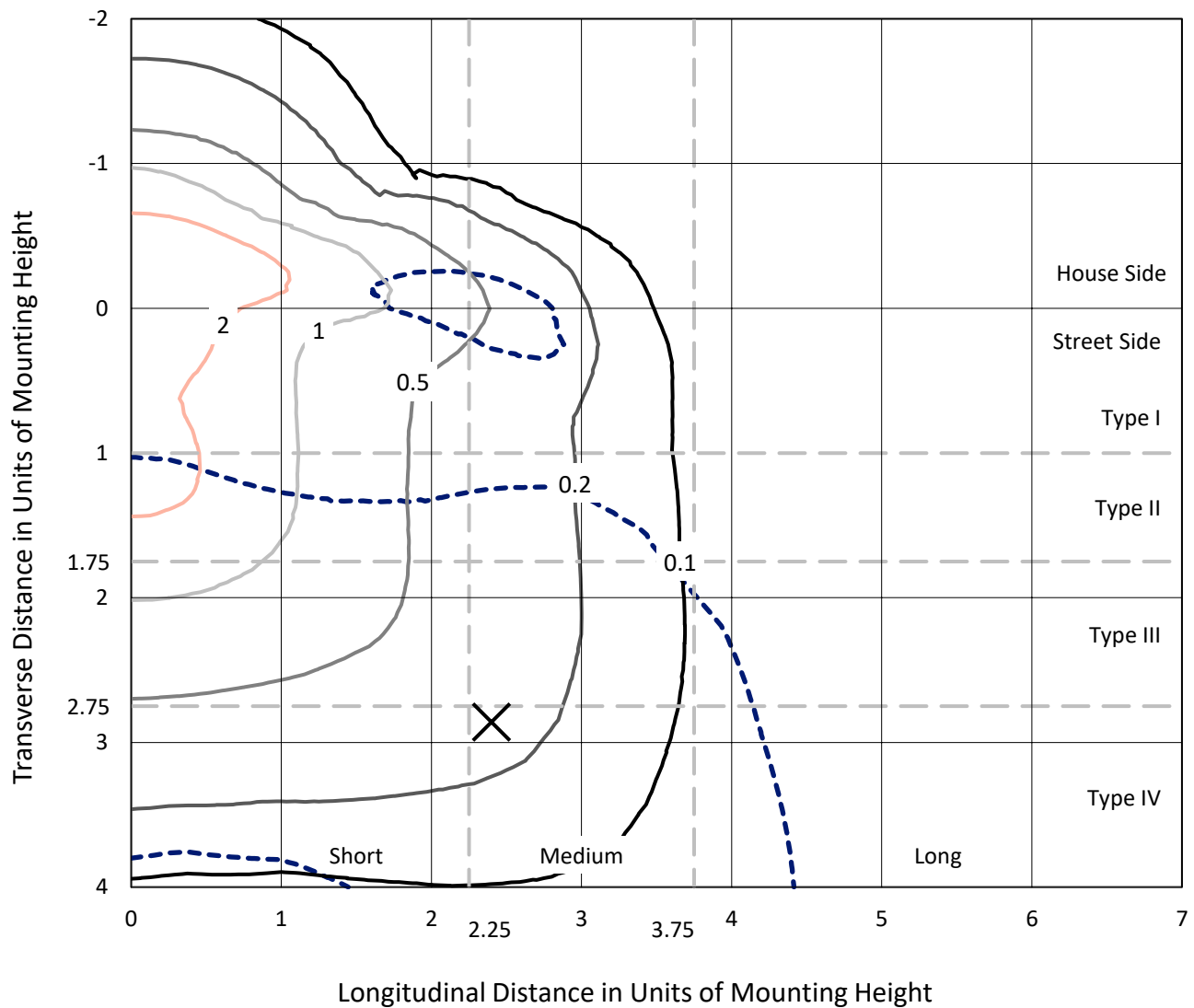


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
--- 1/2 Max cd

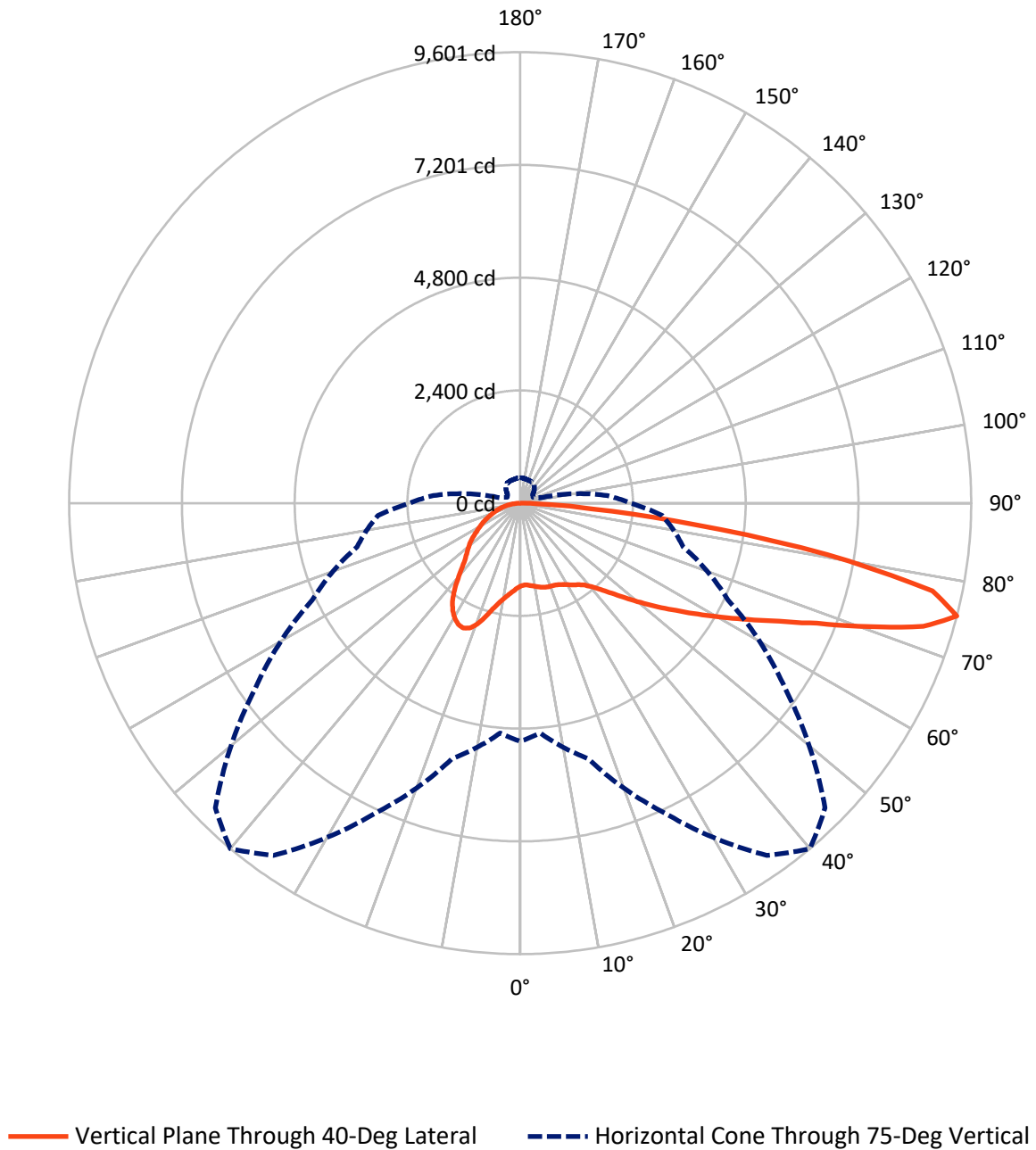


Based on 25 foot mounting height. Maximum calculated value = 3.6 fc  
Type IV - Medium - N/A

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## Luminous Intensity Polar Plot



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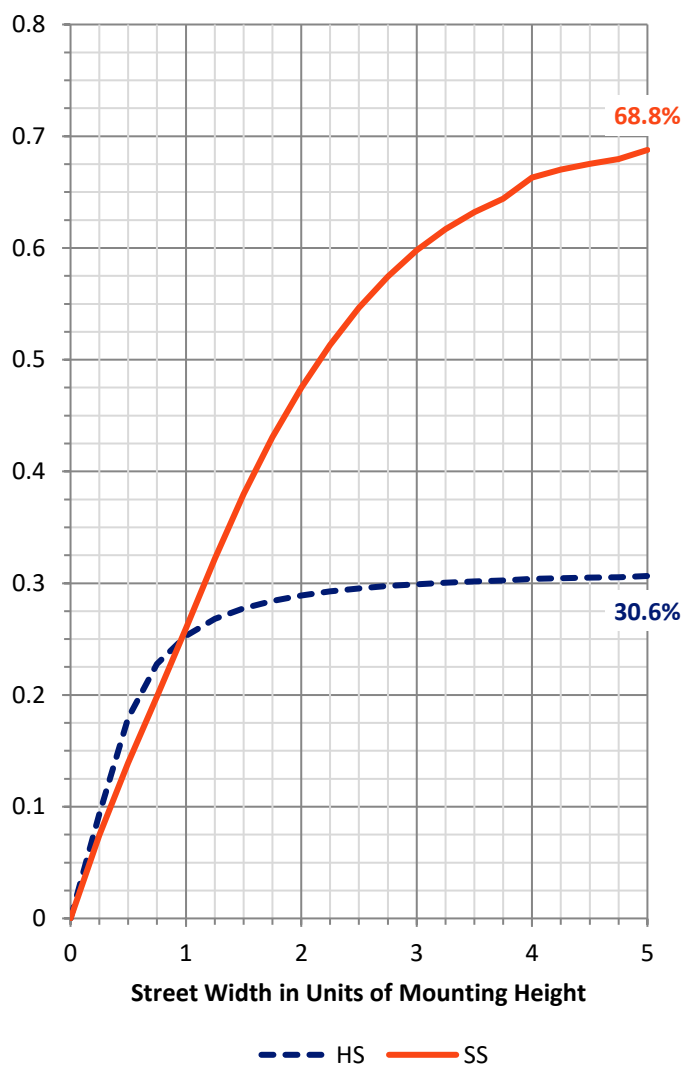
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4779.3   | 0.0    | 4779.3  |
|                    | % Fixture | 31.0     | 0.0    | 31.0    |
| <b>Street Side</b> | Lumens    | 10646.0  | 0.0    | 10646.0 |
|                    | % Fixture | 69.0     | 0.0    | 69.0    |
| <b>Total</b>       | Lumens    | 15425.2  | 0.0    | 15425.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 176.1   | 1.1       |
| 10°-20°   | 591.1   | 3.8       |
| 20°-30°   | 1079.4  | 7.0       |
| 30°-40°   | 1530.9  | 9.9       |
| 40°-50°   | 2067.1  | 13.4      |
| 50°-60°   | 2780.9  | 18.0      |
| 60°-70°   | 3529.5  | 22.9      |
| 70°-80°   | 3203.3  | 20.8      |
| 80°-90°   | 466.9   | 3.0       |
| 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°    | 15425.2 | 100.0     |
| 0°-180°   | 15425.2 | 100.0     |

**Coefficient of Utilization**



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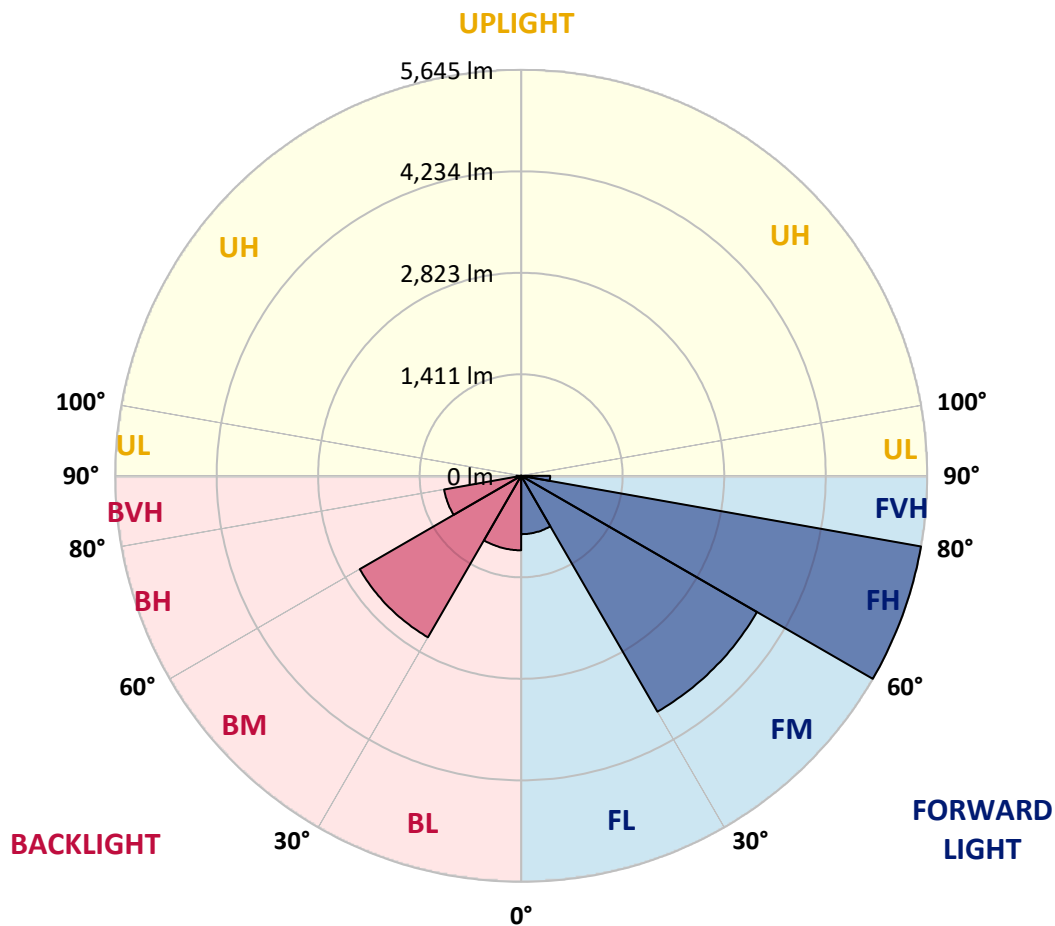
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 811.4  | 5.3       |                         |      |         |
| FM   | (30°-60°)   | 3786.5 | 24.5      |                         |      |         |
| FH   | (60°-80°)   | 5645.4 | 36.6      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 402.7  | 2.6       |                         |      | G3/500  |
| BL   | (0°-30°)    | 1035.2 | 6.7       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2592.3 | 16.8      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1087.4 | 7.0       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 64.3   | 0.4       |                         |      | 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 IV Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 40°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1763.9 | 1763.9 | 1763.9 | 1763.9 | 1763.9 | 1763.9 | 1763.9 | 1763.9 | 1763.9 | 1763.9 | 1763.9 |
| 2.5°  | 1736.9 | 1746.7 | 1744.2 | 1741.0 | 1741.0 | 1741.8 | 1741.0 | 1746.7 | 1752.4 | 1758.2 | 1767.2 |
| 5°    | 1754.9 | 1764.7 | 1759.8 | 1755.7 | 1752.4 | 1751.6 | 1749.2 | 1748.3 | 1751.6 | 1759.0 | 1771.3 |
| 7.5°  | 1790.1 | 1799.9 | 1792.5 | 1785.1 | 1778.6 | 1775.3 | 1772.1 | 1767.2 | 1764.7 | 1768.8 | 1786.0 |
| 10°   | 1829.3 | 1839.2 | 1830.1 | 1817.1 | 1806.5 | 1802.4 | 1799.1 | 1794.2 | 1790.9 | 1793.3 | 1812.2 |
| 12.5° | 1868.6 | 1878.4 | 1866.1 | 1848.2 | 1834.2 | 1831.8 | 1827.7 | 1826.0 | 1825.2 | 1824.4 | 1843.3 |
| 15°   | 1905.5 | 1913.6 | 1898.1 | 1876.8 | 1862.1 | 1858.0 | 1853.9 | 1856.4 | 1860.5 | 1865.3 | 1886.6 |
| 17.5° | 1934.1 | 1942.3 | 1919.3 | 1891.5 | 1877.6 | 1876.0 | 1873.5 | 1881.7 | 1893.2 | 1905.5 | 1931.6 |
| 20°   | 1960.2 | 1968.4 | 1939.0 | 1901.4 | 1885.0 | 1885.0 | 1885.8 | 1903.0 | 1919.3 | 1937.4 | 1973.3 |
| 22.5° | 1997.1 | 2003.6 | 1967.6 | 1916.0 | 1892.4 | 1894.0 | 1900.6 | 1917.7 | 1938.2 | 1962.7 | 2012.6 |
| 25°   | 2051.8 | 2056.8 | 2012.6 | 1943.9 | 1916.9 | 1921.8 | 1927.5 | 1935.7 | 1955.3 | 1984.0 | 2051.0 |
| 27.5° | 2140.2 | 2144.3 | 2086.3 | 1993.0 | 1952.1 | 1960.2 | 1968.4 | 1962.7 | 1971.7 | 1996.3 | 2082.2 |
| 30°   | 2264.6 | 2267.1 | 2193.4 | 2069.9 | 2011.8 | 2015.9 | 2017.5 | 1993.8 | 1976.6 | 1996.3 | 2104.2 |
| 32.5° | 2411.8 | 2411.0 | 2323.5 | 2163.2 | 2079.7 | 2075.6 | 2061.7 | 2015.0 | 1975.0 | 1992.2 | 2123.9 |
| 35°   | 2640.1 | 2631.1 | 2518.2 | 2294.1 | 2156.6 | 2131.3 | 2098.5 | 2038.8 | 1983.2 | 1988.1 | 2141.0 |
| 37.5° | 3018.1 | 2990.2 | 2834.0 | 2508.4 | 2271.1 | 2206.5 | 2158.2 | 2077.3 | 2001.1 | 1986.4 | 2161.5 |
| 40°   | 3444.3 | 3409.2 | 3237.4 | 2802.1 | 2443.0 | 2339.0 | 2261.4 | 2132.1 | 2030.6 | 1993.8 | 2191.8 |
| 42.5° | 3949.9 | 3900.0 | 3715.1 | 3148.2 | 2660.6 | 2510.0 | 2393.1 | 2201.6 | 2074.0 | 2017.5 | 2232.7 |
| 45°   | 4570.9 | 4504.7 | 4242.9 | 3538.4 | 2934.7 | 2734.2 | 2578.0 | 2307.2 | 2140.2 | 2063.3 | 2294.1 |
| 47.5° | 5198.4 | 5214.8 | 4842.5 | 3985.1 | 3263.5 | 3010.7 | 2809.4 | 2465.8 | 2236.8 | 2136.9 | 2393.1 |
| 50°   | 5865.2 | 5876.6 | 5439.0 | 4480.1 | 3636.6 | 3323.3 | 3069.7 | 2643.4 | 2370.9 | 2241.7 | 2541.1 |
| 52.5° | 6385.5 | 6387.2 | 5980.6 | 4998.0 | 4025.2 | 3666.8 | 3350.2 | 2846.3 | 2526.4 | 2380.8 | 2738.3 |
| 55°   | 6711.2 | 6707.1 | 6360.1 | 5488.1 | 4471.9 | 4027.6 | 3661.1 | 3076.9 | 2716.2 | 2544.4 | 2986.2 |
| 57.5° | 6947.6 | 6935.4 | 6622.0 | 5909.3 | 4948.1 | 4453.9 | 4013.0 | 3338.8 | 2940.4 | 2739.1 | 3312.6 |
| 60°   | 7037.5 | 7030.2 | 6799.5 | 6273.4 | 5448.8 | 4925.1 | 4418.8 | 3631.7 | 3194.8 | 2969.0 | 3732.3 |
| 62.5° | 7072.0 | 7085.8 | 6973.8 | 6626.0 | 5984.7 | 5447.2 | 4864.6 | 3981.8 | 3481.2 | 3229.2 | 4174.9 |
| 65°   | 7193.0 | 7218.4 | 7195.5 | 7087.5 | 6590.0 | 6058.3 | 5456.2 | 4398.3 | 3793.7 | 3508.2 | 4637.2 |
| 67.5° | 7432.8 | 7458.1 | 7467.9 | 7639.7 | 7329.7 | 6819.9 | 6194.1 | 4917.0 | 4159.3 | 3797.7 | 4984.9 |
| 70°   | 7427.0 | 7419.7 | 7593.1 | 8079.0 | 8255.8 | 7874.6 | 7188.9 | 5555.1 | 4595.5 | 4038.3 | 5029.1 |
| 72.5° | 6760.3 | 6701.3 | 7111.2 | 8074.1 | 9026.5 | 8975.7 | 8403.9 | 6378.2 | 4971.8 | 4067.7 | 4363.9 |
| 75°   | 5071.6 | 4914.6 | 5638.5 | 7276.5 | 9154.9 | 9600.8 | 9176.2 | 6888.7 | 4882.6 | 3594.1 | 3036.9 |
| 77.5° | 2168.9 | 2010.9 | 2864.3 | 5386.6 | 8193.6 | 8974.9 | 8467.6 | 6010.0 | 3897.6 | 2376.7 | 1491.5 |
| 80°   | 567.7  | 566.9  | 865.6  | 2442.2 | 5572.3 | 6627.6 | 5814.5 | 3881.3 | 2226.9 | 849.2  | 411.5  |
| 82.5° | 234.8  | 229.1  | 318.3  | 949.9  | 2722.7 | 3719.2 | 3035.2 | 1731.1 | 804.2  | 229.9  | 136.6  |
| 85°   | 87.5   | 86.7   | 154.7  | 328.1  | 960.5  | 1534.0 | 1110.2 | 442.6  | 200.5  | 112.1  | 61.4   |
| 87.5° | 24.5   | 23.7   | 33.5   | 113.7  | 234.0  | 355.1  | 189.8  | 72.8   | 56.5   | 44.2   | 18.0   |
| 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°    | 1763.9 | 1763.9 | 1763.9 | 1763.9 | 1763.9 | 1763.9 | 1763.9 | 1763.9 | 1763.9 | 1763.9 | 1763.9 |
| 2.5°  | 1769.7 | 1773.8 | 1781.0 | 1786.8 | 1794.2 | 1802.4 | 1813.8 | 1821.1 | 1828.5 | 1833.4 | 1830.1 |
| 5°    | 1776.9 | 1786.0 | 1804.8 | 1823.6 | 1845.7 | 1866.1 | 1889.9 | 1907.1 | 1921.0 | 1925.1 | 1926.7 |
| 7.5°  | 1793.3 | 1808.1 | 1840.0 | 1871.9 | 1907.1 | 1940.6 | 1975.0 | 2004.4 | 2028.2 | 2037.2 | 2038.0 |
| 10°   | 1821.9 | 1841.6 | 1886.6 | 1931.6 | 1978.2 | 2029.8 | 2074.0 | 2116.5 | 2150.0 | 2164.0 | 2164.8 |
| 12.5° | 1858.0 | 1882.5 | 1941.5 | 2003.6 | 2068.2 | 2139.4 | 2196.7 | 2249.1 | 2290.8 | 2309.6 | 2309.6 |
| 15°   | 1904.7 | 1936.5 | 2011.8 | 2095.2 | 2190.1 | 2289.1 | 2361.9 | 2420.0 | 2466.7 | 2489.6 | 2488.0 |
| 17.5° | 1955.3 | 1997.9 | 2092.7 | 2218.8 | 2354.6 | 2484.7 | 2569.8 | 2612.3 | 2660.6 | 2682.6 | 2681.8 |
| 20°   | 2004.4 | 2056.8 | 2192.6 | 2375.8 | 2556.7 | 2694.9 | 2763.6 | 2775.1 | 2778.4 | 2780.8 | 2787.4 |
| 22.5° | 2055.1 | 2125.5 | 2317.7 | 2573.9 | 2767.7 | 2863.4 | 2873.3 | 2824.2 | 2755.5 | 2723.5 | 2732.5 |
| 25°   | 2110.8 | 2204.1 | 2481.4 | 2792.3 | 2949.3 | 2960.8 | 2885.6 | 2766.1 | 2636.0 | 2576.3 | 2585.3 |
| 27.5° | 2164.8 | 2294.9 | 2677.7 | 3000.9 | 3080.2 | 2979.7 | 2817.6 | 2648.3 | 2491.3 | 2428.2 | 2435.6 |
| 30°   | 2218.8 | 2398.8 | 2894.6 | 3183.3 | 3140.0 | 2933.0 | 2710.5 | 2521.5 | 2363.5 | 2297.3 | 2304.7 |
| 32.5° | 2273.6 | 2519.9 | 3144.1 | 3315.1 | 3129.3 | 2834.0 | 2577.2 | 2379.1 | 2240.0 | 2170.5 | 2179.5 |
| 35°   | 2335.8 | 2668.8 | 3380.6 | 3387.1 | 3058.2 | 2688.4 | 2401.3 | 2209.0 | 2087.9 | 2032.3 | 2044.5 |
| 37.5° | 2416.7 | 2857.7 | 3589.1 | 3405.0 | 2933.9 | 2474.9 | 2182.7 | 2007.7 | 1907.9 | 1882.5 | 1900.6 |
| 40°   | 2517.4 | 3085.1 | 3748.7 | 3376.5 | 2749.8 | 2215.5 | 1943.9 | 1804.0 | 1747.5 | 1753.3 | 1772.9 |
| 42.5° | 2648.3 | 3339.7 | 3860.8 | 3302.8 | 2493.6 | 1948.0 | 1734.4 | 1672.3 | 1699.2 | 1722.2 | 1743.4 |
| 45°   | 2818.4 | 3603.9 | 3930.4 | 3177.6 | 2204.1 | 1721.4 | 1610.9 | 1625.6 | 1646.0 | 1648.5 | 1664.9 |
| 47.5° | 3036.0 | 3871.4 | 3976.1 | 2988.6 | 1908.8 | 1561.8 | 1532.4 | 1535.7 | 1531.6 | 1514.3 | 1527.5 |
| 50°   | 3307.7 | 4131.6 | 4017.1 | 2738.3 | 1657.5 | 1462.0 | 1422.7 | 1411.3 | 1354.8 | 1299.2 | 1306.6 |
| 52.5° | 3616.9 | 4370.5 | 4034.2 | 2427.4 | 1462.0 | 1378.5 | 1314.8 | 1242.7 | 1137.2 | 1120.0 | 1125.8 |
| 55°   | 3960.6 | 4591.4 | 3990.0 | 2045.3 | 1297.5 | 1271.4 | 1174.9 | 1088.1 | 1076.7 | 1061.9 | 1064.4 |
| 57.5° | 4371.3 | 4829.4 | 3900.0 | 1619.1 | 1129.0 | 1146.2 | 1052.2 | 1061.9 | 1041.5 | 1018.5 | 1014.4 |
| 60°   | 4820.5 | 5075.7 | 3742.2 | 1230.5 | 954.8  | 989.9  | 1020.2 | 1019.4 | 1013.6 | 994.9  | 988.3  |
| 62.5° | 5224.6 | 5237.6 | 3431.3 | 942.5  | 801.8  | 868.9  | 951.5  | 950.7  | 945.8  | 935.1  | 931.0  |
| 65°   | 5465.1 | 5213.2 | 2912.5 | 742.0  | 675.8  | 769.1  | 858.2  | 864.8  | 865.6  | 864.8  | 864.8  |
| 67.5° | 5422.6 | 4925.9 | 2200.8 | 590.7  | 571.8  | 667.6  | 765.8  | 774.8  | 781.4  | 783.0  | 784.6  |
| 70°   | 4941.5 | 4295.2 | 1435.0 | 471.3  | 479.4  | 578.4  | 678.2  | 687.3  | 693.0  | 699.5  | 702.7  |
| 72.5° | 3851.7 | 3158.0 | 821.4  | 381.3  | 398.4  | 501.5  | 591.5  | 602.2  | 605.5  | 617.7  | 622.6  |
| 75°   | 2347.2 | 1857.2 | 443.4  | 300.2  | 327.3  | 428.7  | 505.6  | 517.8  | 523.6  | 538.3  | 540.0  |
| 77.5° | 1115.9 | 804.2  | 252.8  | 234.0  | 263.4  | 350.1  | 427.0  | 441.0  | 425.5  | 433.6  | 427.0  |
| 80°   | 377.2  | 298.6  | 159.5  | 178.4  | 201.3  | 273.3  | 341.9  | 355.9  | 323.2  | 321.5  | 318.3  |
| 82.5° | 131.7  | 121.1  | 101.5  | 118.6  | 130.1  | 195.6  | 258.5  | 276.5  | 240.6  | 239.7  | 228.3  |
| 85°   | 51.6   | 49.1   | 56.5   | 64.7   | 77.7   | 120.2  | 170.1  | 179.2  | 148.1  | 119.4  | 117.8  |
| 87.5° | 10.7   | 11.5   | 13.9   | 14.8   | 23.7   | 41.7   | 61.4   | 75.2   | 59.8   | 50.7   | 46.6   |
| 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)