

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: P964206

Luminaire Tested: **NVN-SB3B-830-U-T4FT**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P964206  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB3B-830-U-T4FT  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 15380.1 lumens  
Efficiency: N/A  
Efficacy: 140.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - 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



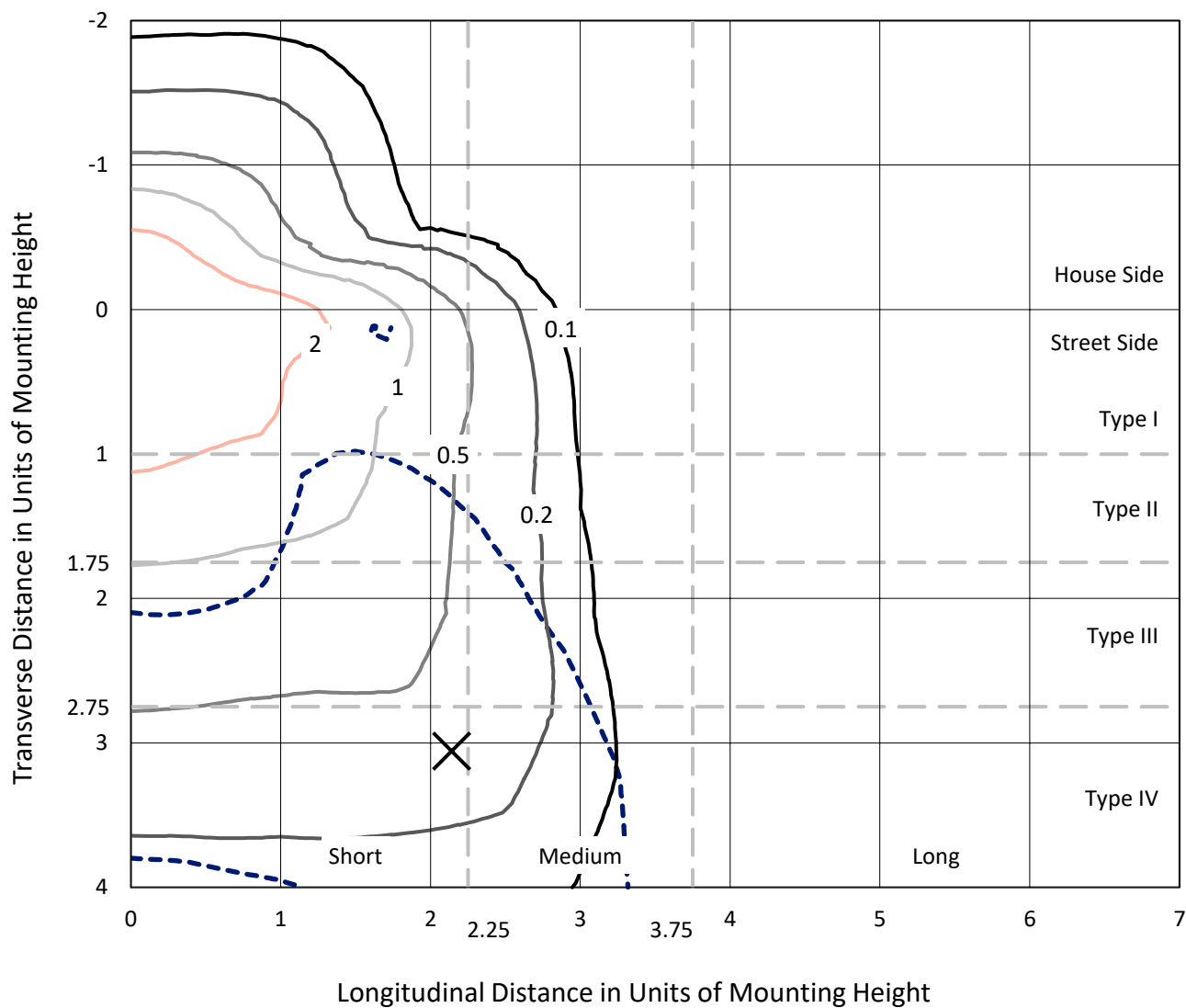
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

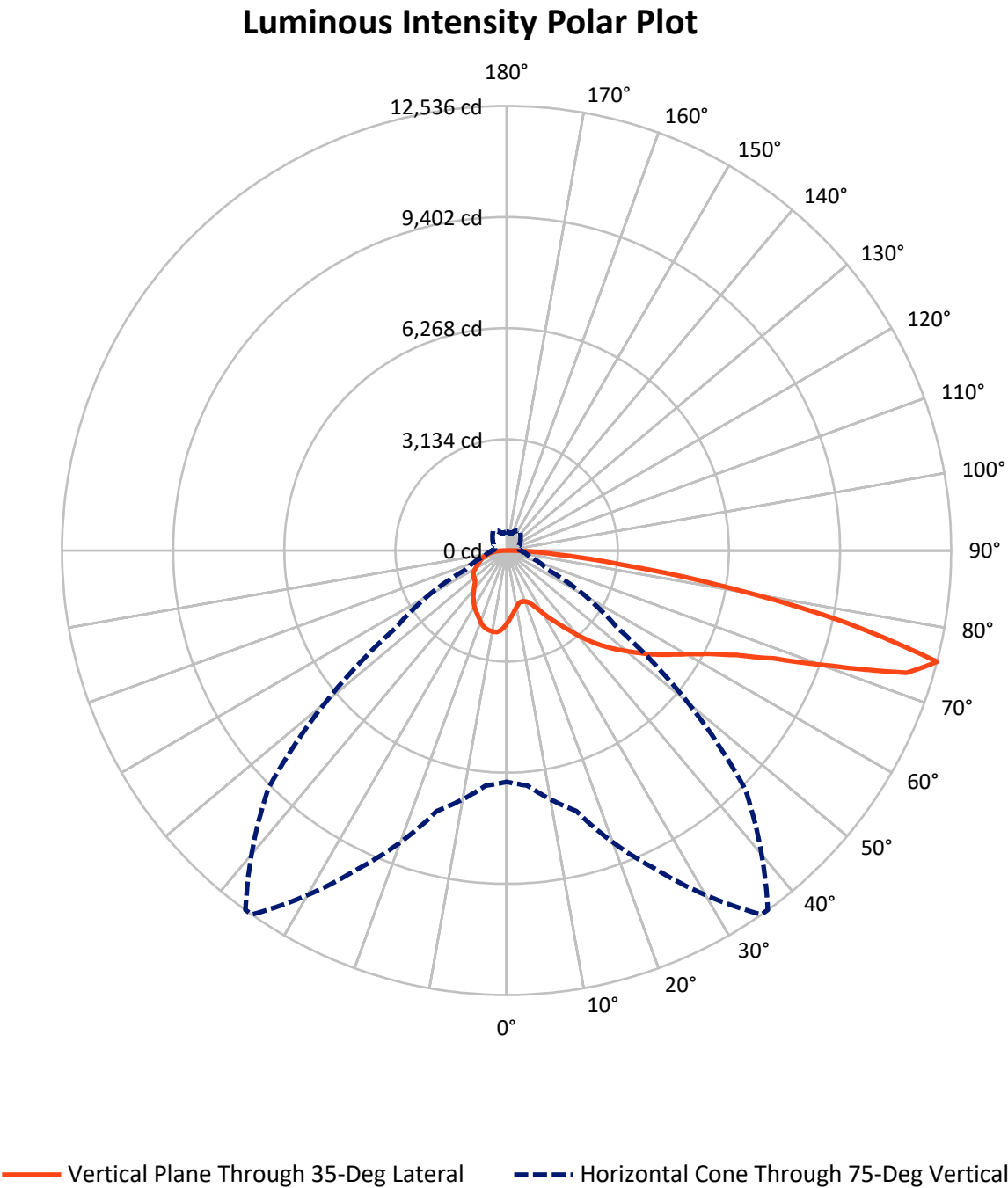
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc

Type IV - Short - N/A

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3660.1   | 0.0    | 3660.1  |
|                    | % Fixture | 23.8     | 0.0    | 23.8    |
| <b>Street Side</b> | Lumens    | 11720.0  | 0.0    | 11720.0 |
|                    | % Fixture | 76.2     | 0.0    | 76.2    |
| <b>Total</b>       | Lumens    | 15380.1  | 0.0    | 15380.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 194.0   | 1.3       |
| 10°-20°   | 559.7   | 3.6       |
| 20°-30°   | 939.9   | 6.1       |
| 30°-40°   | 1460.7  | 9.5       |
| 40°-50°   | 2168.1  | 14.1      |
| 50°-60°   | 2993.2  | 19.5      |
| 60°-70°   | 3631.5  | 23.6      |
| 70°-80°   | 3001.2  | 19.5      |
| 80°-90°   | 431.7   | 2.8       |
| 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°    | 15380.1 | 100.0     |
| 0°-180°   | 15380.1 | 100.0     |

**Coefficient of Utilization**



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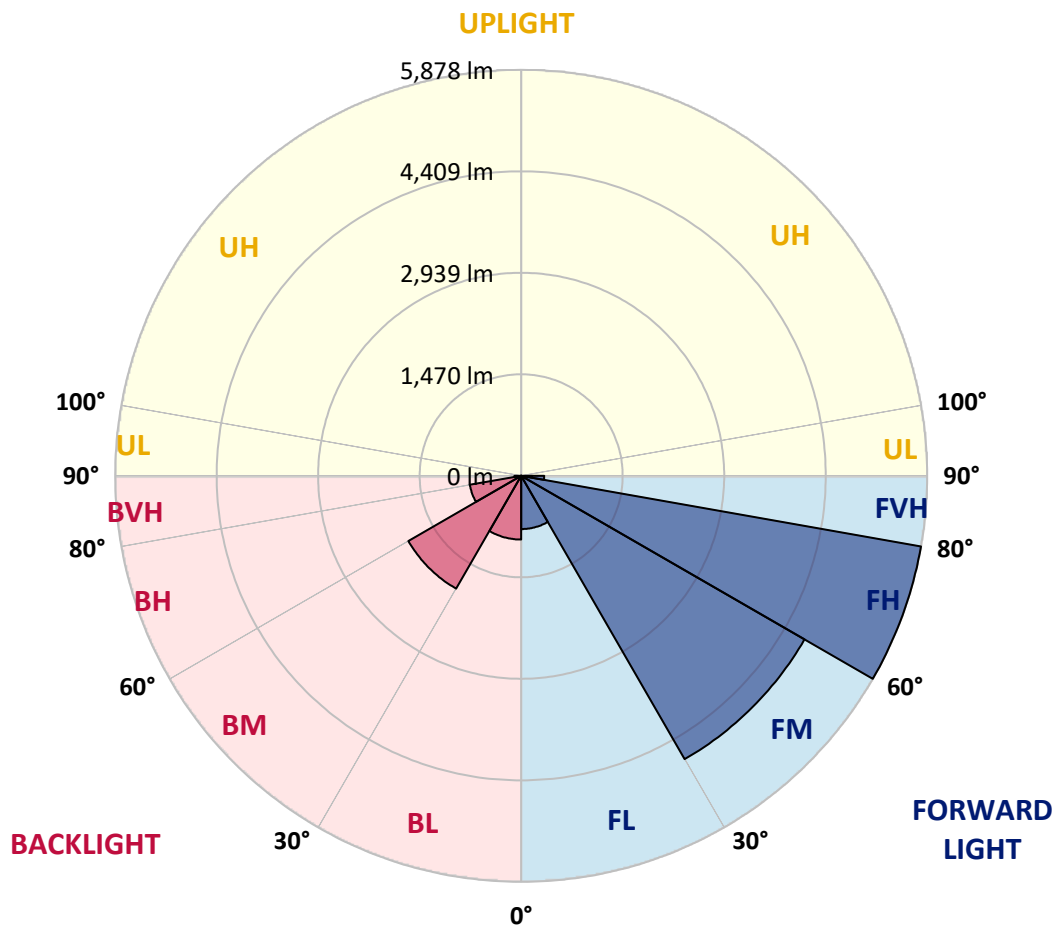
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 771.3  | 5.0       |                         |      |         |
| FM   | (30°-60°)   | 4736.2 | 30.8      |                         |      |         |
| FH   | (60°-80°)   | 5878.0 | 38.2      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 334.5  | 2.2       |                         |      | G3/500  |
| BL   | (0°-30°)    | 922.4  | 6.0       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1885.9 | 12.3      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 754.6  | 4.9       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 97.2   | 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-G3**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 36°     | 45°     | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|---------|---------|---------|--------|--------|--------|--------|
| 0°    | 2049.5 | 2049.5 | 2049.5 | 2049.5 | 2049.5  | 2049.5  | 2049.5  | 2049.5 | 2049.5 | 2049.5 | 2049.5 |
| 2.5°  | 1889.9 | 1901.5 | 1906.5 | 1904.0 | 1916.4  | 1914.8  | 1932.2  | 1953.9 | 1983.8 | 2012.9 | 2055.3 |
| 5°    | 1744.3 | 1756.8 | 1767.6 | 1777.7 | 1801.7  | 1809.2  | 1836.7  | 1878.2 | 1933.2 | 1988.8 | 2058.6 |
| 7.5°  | 1608.8 | 1619.6 | 1636.3 | 1654.6 | 1695.4  | 1702.8  | 1748.5  | 1813.3 | 1889.9 | 1971.4 | 2067.8 |
| 10°   | 1498.2 | 1509.1 | 1526.5 | 1547.3 | 1598.1  | 1607.2  | 1665.4  | 1751.8 | 1851.7 | 1954.7 | 2077.8 |
| 12.5° | 1450.9 | 1454.2 | 1464.2 | 1484.9 | 1529.0  | 1534.8  | 1598.9  | 1697.8 | 1814.2 | 1942.3 | 2092.7 |
| 15°   | 1448.3 | 1455.0 | 1455.8 | 1466.7 | 1503.3  | 1505.7  | 1564.8  | 1662.9 | 1790.9 | 1939.7 | 2115.2 |
| 17.5° | 1473.3 | 1478.3 | 1470.8 | 1477.4 | 1508.3  | 1512.4  | 1558.9  | 1646.3 | 1783.4 | 1950.6 | 2153.4 |
| 20°   | 1539.9 | 1544.0 | 1521.5 | 1512.4 | 1534.8  | 1538.2  | 1583.9  | 1657.0 | 1790.9 | 1973.0 | 2205.8 |
| 22.5° | 1681.2 | 1683.7 | 1628.8 | 1591.4 | 1593.1  | 1594.7  | 1634.6  | 1701.1 | 1820.0 | 2013.7 | 2272.3 |
| 25°   | 1901.5 | 1899.8 | 1812.5 | 1740.2 | 1698.6  | 1689.5  | 1716.1  | 1772.6 | 1869.1 | 2067.8 | 2358.0 |
| 27.5° | 2159.3 | 2146.8 | 2059.5 | 1951.4 | 1860.8  | 1847.5  | 1841.6  | 1865.8 | 1938.9 | 2139.3 | 2462.8 |
| 30°   | 2450.3 | 2438.6 | 2344.7 | 2203.3 | 2077.8  | 2056.1  | 2001.3  | 1988.8 | 2042.8 | 2236.5 | 2608.2 |
| 32.5° | 2769.5 | 2762.1 | 2649.8 | 2478.6 | 2310.6  | 2285.6  | 2193.3  | 2160.1 | 2202.5 | 2383.7 | 2811.1 |
| 35°   | 3037.3 | 3030.6 | 2937.4 | 2761.2 | 2555.8  | 2525.1  | 2431.1  | 2393.7 | 2415.3 | 2572.4 | 3076.3 |
| 37.5° | 3279.2 | 3275.9 | 3196.1 | 3057.2 | 2845.2  | 2807.8  | 2702.2  | 2689.7 | 2685.6 | 2821.1 | 3398.1 |
| 40°   | 3503.7 | 3495.4 | 3412.2 | 3339.0 | 3181.9  | 3147.9  | 3054.7  | 3043.9 | 3012.3 | 3127.1 | 3762.3 |
| 42.5° | 3752.3 | 3730.7 | 3610.2 | 3576.0 | 3533.6  | 3505.4  | 3449.6  | 3451.3 | 3381.5 | 3472.1 | 4148.1 |
| 45°   | 3955.2 | 3942.7 | 3818.8 | 3798.9 | 3844.6  | 3833.0  | 3881.2  | 3893.7 | 3758.2 | 3833.8 | 4548.8 |
| 47.5° | 4173.0 | 4161.4 | 4056.6 | 4042.5 | 4166.3  | 4169.7  | 4340.2  | 4344.3 | 4125.6 | 4209.6 | 4950.4 |
| 50°   | 4441.5 | 4424.9 | 4321.0 | 4338.5 | 4477.3  | 4489.8  | 4801.6  | 4773.3 | 4464.0 | 4591.2 | 5348.7 |
| 52.5° | 4618.6 | 4628.6 | 4606.1 | 4634.4 | 4824.1  | 4835.6  | 5255.6  | 5183.2 | 4799.0 | 4967.9 | 5739.5 |
| 55°   | 4749.2 | 4769.1 | 4839.0 | 4903.8 | 5189.9  | 5201.5  | 5683.7  | 5573.1 | 5076.8 | 5317.1 | 6107.0 |
| 57.5° | 4917.1 | 4888.8 | 5019.4 | 5145.8 | 5537.4  | 5568.2  | 6100.3  | 5949.0 | 5322.9 | 5618.0 | 6358.9 |
| 60°   | 5158.3 | 5138.3 | 5239.8 | 5426.9 | 5926.5  | 5975.5  | 6540.9  | 6287.3 | 5503.3 | 5856.6 | 6407.9 |
| 62.5° | 5647.1 | 5597.3 | 5613.1 | 5778.5 | 6417.1  | 6481.9  | 7038.2  | 6582.6 | 5593.1 | 5949.8 | 6145.2 |
| 65°   | 6378.0 | 6292.4 | 6212.5 | 6327.3 | 7108.0  | 7172.0  | 7599.4  | 6814.5 | 5559.8 | 5769.4 | 5447.6 |
| 67.5° | 7298.4 | 7213.6 | 7115.4 | 7223.6 | 8125.7  | 8176.4  | 8291.9  | 6945.0 | 5297.9 | 5074.3 | 4214.6 |
| 70°   | 8057.5 | 8026.0 | 8143.1 | 8588.0 | 9751.1  | 9752.8  | 9180.0  | 6837.0 | 4580.4 | 3597.6 | 2438.6 |
| 72.5° | 7956.9 | 7937.8 | 8555.6 | 9930.7 | 11799.8 | 11755.7 | 10020.5 | 6018.8 | 3085.5 | 1623.0 | 913.8  |
| 75°   | 6527.6 | 6651.5 | 7608.6 | 9906.6 | 12535.6 | 12529.8 | 9505.8  | 3826.3 | 1276.2 | 672.6  | 472.2  |
| 77.5° | 3500.4 | 3696.6 | 4939.6 | 7314.2 | 9786.1  | 9933.3  | 6683.1  | 1338.6 | 548.0  | 430.7  | 326.8  |
| 80°   | 1141.5 | 1312.8 | 1968.8 | 3724.0 | 6358.9  | 6331.4  | 2864.4  | 525.5  | 374.9  | 305.1  | 226.1  |
| 82.5° | 484.7  | 504.7  | 879.7  | 1758.5 | 3263.4  | 3212.7  | 912.0   | 301.9  | 263.5  | 208.7  | 139.7  |
| 85°   | 189.5  | 212.0  | 388.3  | 813.1  | 1413.5  | 1382.7  | 329.2   | 149.6  | 168.8  | 136.3  | 83.1   |
| 87.5° | 62.3   | 75.6   | 138.9  | 278.5  | 439.8   | 424.0   | 80.7    | 51.6   | 73.2   | 62.3   | 29.9   |
| 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°    | 2049.5 | 2049.5 | 2049.5 | 2049.5 | 2049.5 | 2049.5 | 2049.5 | 2049.5 | 2049.5 | 2049.5 | 2049.5 |
| 2.5°  | 2067.0 | 2080.2 | 2096.0 | 2119.4 | 2139.3 | 2155.9 | 2173.4 | 2184.2 | 2188.4 | 2200.8 | 2200.0 |
| 5°    | 2082.0 | 2111.0 | 2150.1 | 2188.4 | 2225.8 | 2248.2 | 2268.2 | 2278.2 | 2287.3 | 2294.0 | 2295.6 |
| 7.5°  | 2106.9 | 2144.3 | 2205.8 | 2255.7 | 2287.3 | 2305.6 | 2318.9 | 2315.6 | 2318.9 | 2320.6 | 2323.1 |
| 10°   | 2128.5 | 2180.9 | 2254.1 | 2301.4 | 2325.5 | 2326.3 | 2323.1 | 2311.4 | 2305.6 | 2306.5 | 2308.1 |
| 12.5° | 2154.2 | 2212.5 | 2291.5 | 2331.4 | 2338.0 | 2319.7 | 2305.6 | 2285.6 | 2278.2 | 2274.8 | 2273.1 |
| 15°   | 2189.2 | 2255.7 | 2332.2 | 2347.1 | 2330.5 | 2307.3 | 2283.2 | 2250.7 | 2234.1 | 2220.8 | 2225.0 |
| 17.5° | 2231.6 | 2304.7 | 2363.8 | 2353.0 | 2317.2 | 2279.0 | 2239.9 | 2190.8 | 2156.8 | 2142.7 | 2143.5 |
| 20°   | 2290.7 | 2356.3 | 2387.9 | 2340.5 | 2286.5 | 2228.2 | 2161.7 | 2101.9 | 2070.3 | 2056.1 | 2054.5 |
| 22.5° | 2362.1 | 2425.4 | 2411.2 | 2318.9 | 2242.4 | 2149.3 | 2066.1 | 2022.0 | 2006.2 | 1996.3 | 1997.9 |
| 25°   | 2447.8 | 2501.8 | 2427.8 | 2287.3 | 2170.0 | 2044.6 | 1980.5 | 1966.4 | 1958.9 | 1951.4 | 1951.4 |
| 27.5° | 2559.2 | 2588.3 | 2440.3 | 2240.8 | 2057.0 | 1933.2 | 1909.8 | 1912.3 | 1909.8 | 1897.4 | 1899.8 |
| 30°   | 2706.3 | 2700.6 | 2451.9 | 2165.1 | 1927.3 | 1832.5 | 1834.1 | 1845.0 | 1846.6 | 1838.3 | 1842.4 |
| 32.5° | 2900.0 | 2841.0 | 2457.7 | 2067.0 | 1803.4 | 1744.3 | 1746.0 | 1757.7 | 1766.0 | 1751.8 | 1758.5 |
| 35°   | 3134.6 | 3004.8 | 2448.6 | 1943.9 | 1707.8 | 1660.4 | 1647.9 | 1651.3 | 1653.7 | 1640.4 | 1649.5 |
| 37.5° | 3408.1 | 3188.6 | 2407.8 | 1807.6 | 1628.8 | 1578.1 | 1551.4 | 1529.0 | 1515.8 | 1503.3 | 1511.6 |
| 40°   | 3708.2 | 3389.0 | 2333.0 | 1674.5 | 1540.7 | 1490.8 | 1450.9 | 1408.5 | 1363.6 | 1347.0 | 1354.4 |
| 42.5° | 4022.5 | 3595.2 | 2242.4 | 1547.3 | 1439.2 | 1398.5 | 1356.1 | 1294.6 | 1227.2 | 1193.1 | 1197.3 |
| 45°   | 4348.5 | 3806.3 | 2153.4 | 1421.8 | 1335.3 | 1317.8 | 1268.7 | 1194.7 | 1121.7 | 1078.4 | 1075.0 |
| 47.5° | 4667.7 | 4005.9 | 2022.9 | 1295.4 | 1238.0 | 1257.2 | 1218.9 | 1150.8 | 1069.3 | 1001.0 | 993.5  |
| 50°   | 4972.9 | 4193.0 | 1809.2 | 1167.4 | 1159.1 | 1238.8 | 1202.2 | 1104.1 | 1011.1 | 923.7  | 916.2  |
| 52.5° | 5275.5 | 4344.3 | 1535.7 | 1050.9 | 1116.6 | 1233.9 | 1180.7 | 1072.6 | 958.7  | 867.2  | 857.2  |
| 55°   | 5532.4 | 4422.5 | 1272.1 | 951.2  | 1055.1 | 1191.5 | 1154.9 | 1035.1 | 884.7  | 787.4  | 779.1  |
| 57.5° | 5678.7 | 4359.2 | 1052.6 | 853.1  | 970.3  | 1121.7 | 1110.8 | 955.3  | 796.5  | 721.7  | 711.8  |
| 60°   | 5615.6 | 4103.2 | 873.0  | 767.4  | 889.6  | 1045.9 | 1034.3 | 876.4  | 729.2  | 658.5  | 648.5  |
| 62.5° | 5267.2 | 3615.1 | 730.8  | 692.6  | 816.5  | 968.6  | 957.9  | 815.7  | 677.6  | 609.5  | 598.6  |
| 65°   | 4565.5 | 2940.8 | 620.2  | 630.3  | 742.5  | 875.6  | 891.3  | 765.0  | 636.9  | 570.4  | 559.5  |
| 67.5° | 3482.1 | 2130.2 | 533.8  | 576.2  | 670.1  | 784.0  | 829.7  | 728.4  | 602.8  | 539.6  | 529.6  |
| 70°   | 1984.6 | 1209.7 | 460.6  | 523.8  | 606.1  | 699.3  | 782.4  | 699.3  | 566.2  | 513.8  | 507.2  |
| 72.5° | 752.5  | 555.4  | 398.2  | 471.4  | 544.6  | 627.7  | 730.0  | 653.5  | 523.8  | 484.7  | 478.1  |
| 75°   | 401.6  | 338.4  | 335.1  | 409.9  | 474.0  | 557.9  | 664.3  | 608.6  | 492.2  | 512.2  | 528.8  |
| 77.5° | 273.6  | 239.4  | 280.2  | 350.9  | 396.6  | 480.6  | 594.5  | 540.5  | 426.5  | 424.9  | 391.7  |
| 80°   | 189.5  | 169.6  | 227.9  | 282.7  | 306.8  | 404.1  | 518.9  | 463.9  | 347.6  | 324.3  | 310.2  |
| 82.5° | 113.9  | 110.6  | 170.5  | 211.2  | 217.0  | 311.8  | 429.9  | 389.1  | 284.3  | 247.7  | 249.4  |
| 85°   | 62.3   | 65.7   | 109.0  | 123.9  | 126.4  | 217.8  | 336.7  | 300.9  | 218.6  | 183.8  | 185.4  |
| 87.5° | 17.4   | 22.4   | 39.9   | 49.1   | 60.7   | 113.1  | 200.4  | 178.8  | 109.8  | 76.5   | 76.5   |
| 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)