

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: P963493

Luminaire Tested: **NVN-SB3A-730-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P963493  
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-SB3A-730-U-T4FT  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13634.5 lumens  
Efficiency: N/A  
Efficacy: 161.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

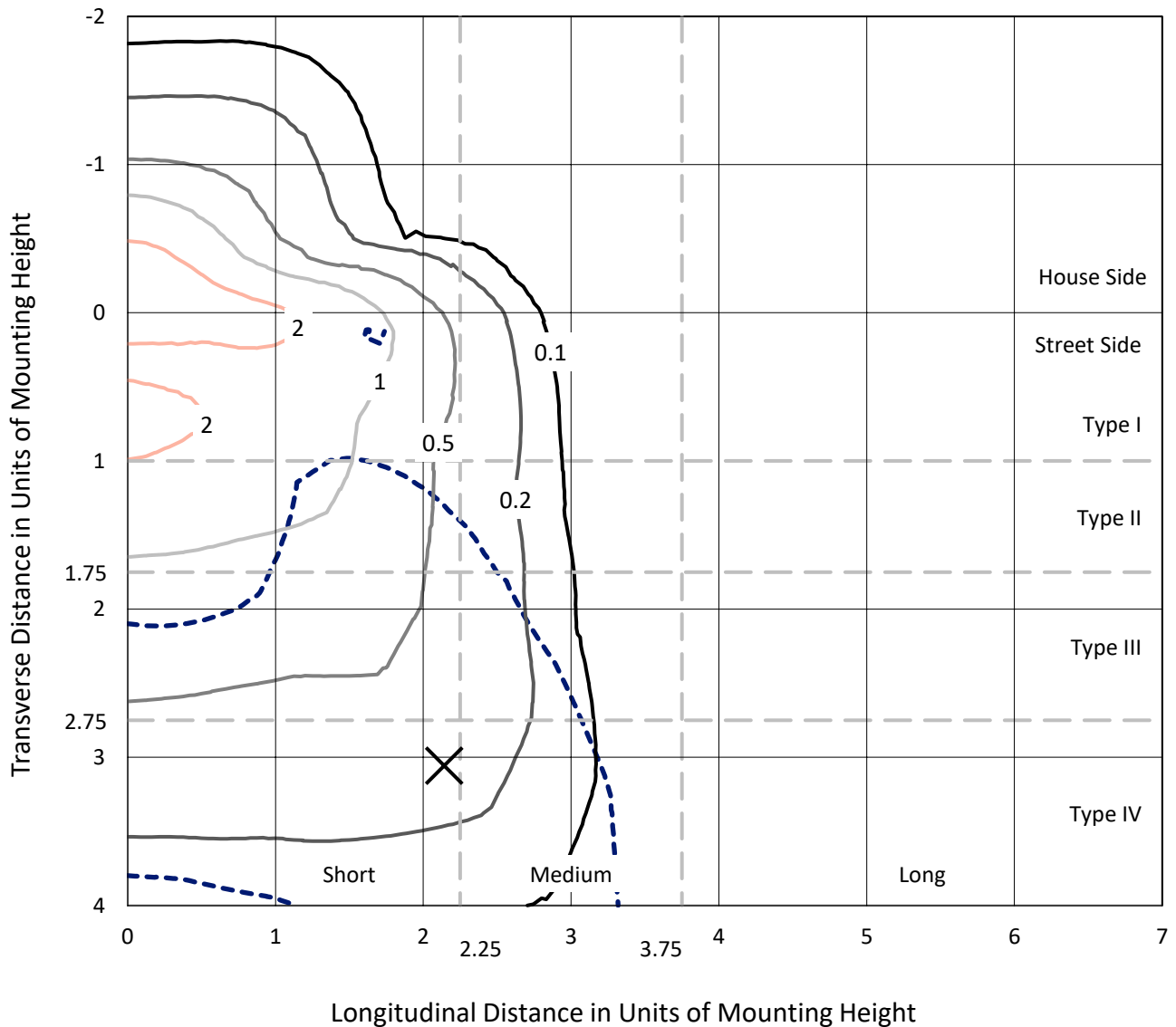
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

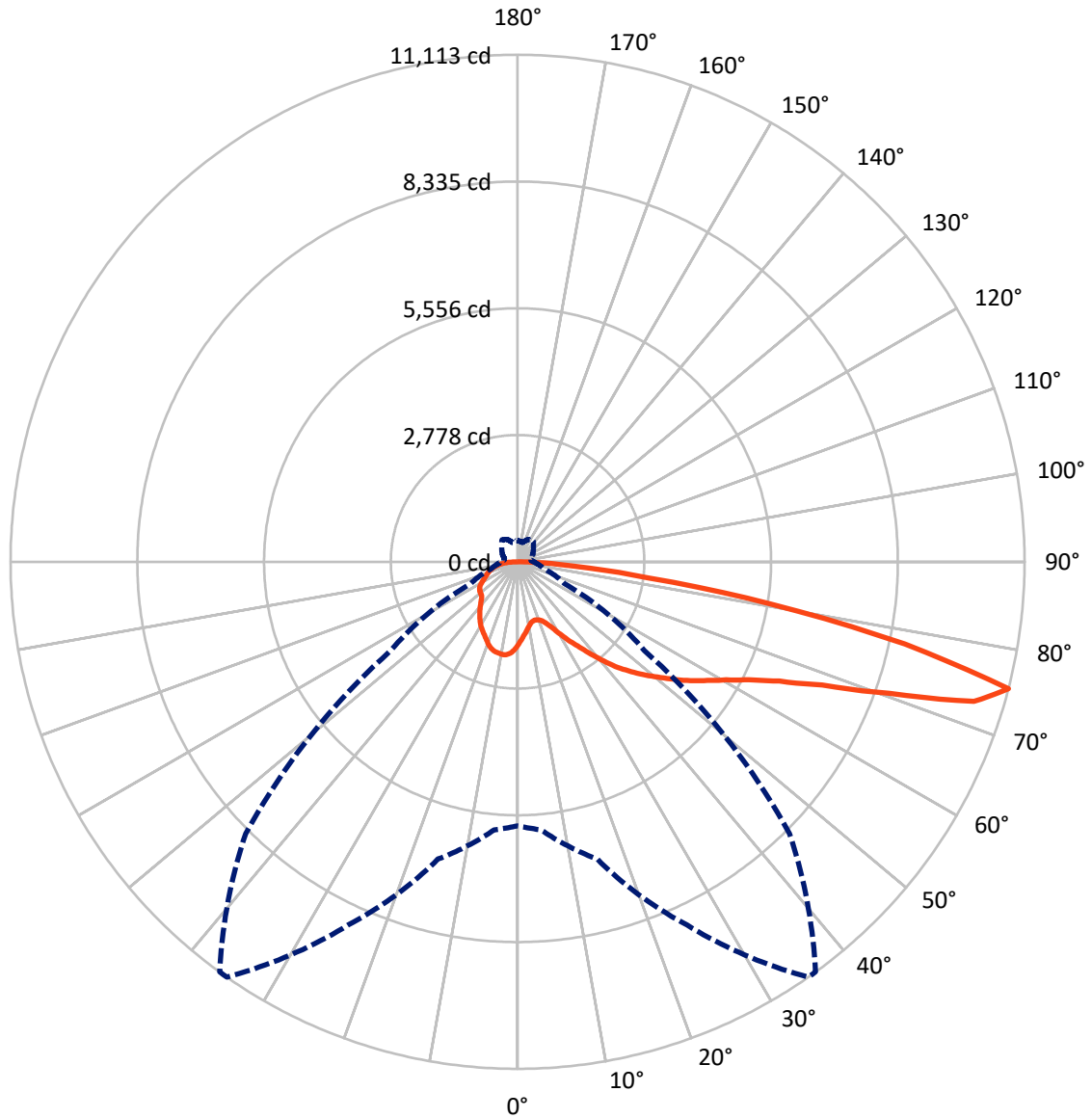
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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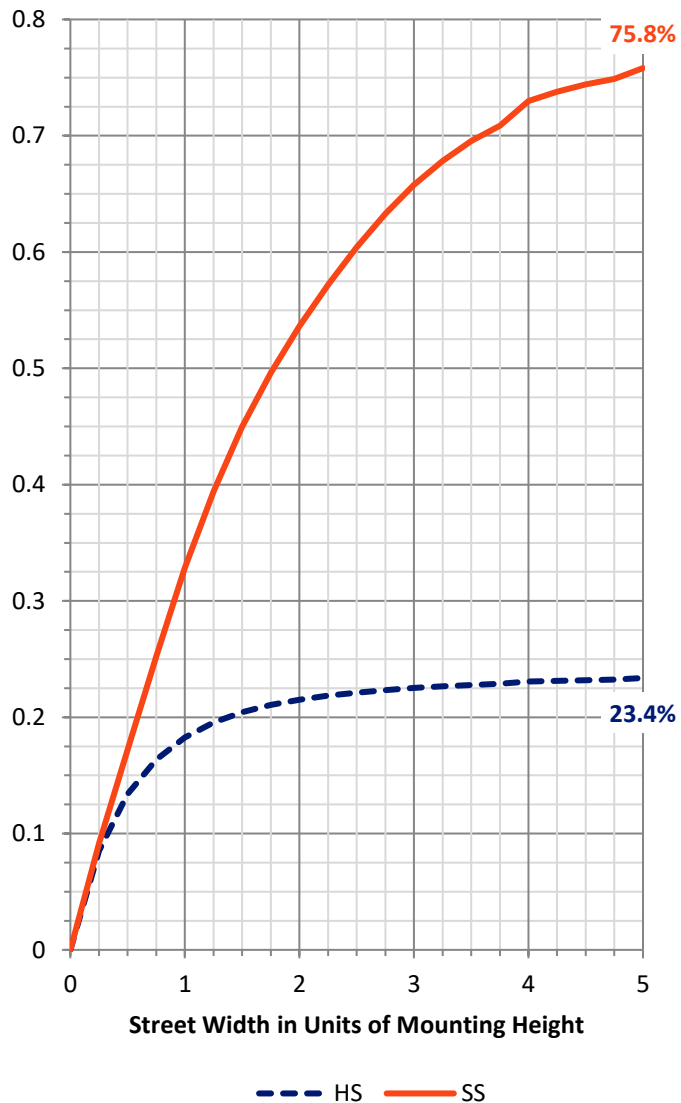
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3244.7   | 0.0    | 3244.7  |
|                    | % Fixture | 23.8     | 0.0    | 23.8    |
| <b>Street Side</b> | Lumens    | 10389.9  | 0.0    | 10389.9 |
|                    | % Fixture | 76.2     | 0.0    | 76.2    |
| <b>Total</b>       | Lumens    | 13634.5  | 0.0    | 13634.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 172.0   | 1.3       |
| 10°-20°   | 496.2   | 3.6       |
| 20°-30°   | 833.2   | 6.1       |
| 30°-40°   | 1295.0  | 9.5       |
| 40°-50°   | 1922.1  | 14.1      |
| 50°-60°   | 2653.5  | 19.5      |
| 60°-70°   | 3219.3  | 23.6      |
| 70°-80°   | 2660.5  | 19.5      |
| 80°-90°   | 382.7   | 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°    | 13634.5 | 100.0     |
| 0°-180°   | 13634.5 | 100.0     |

**Coefficient of Utilization**



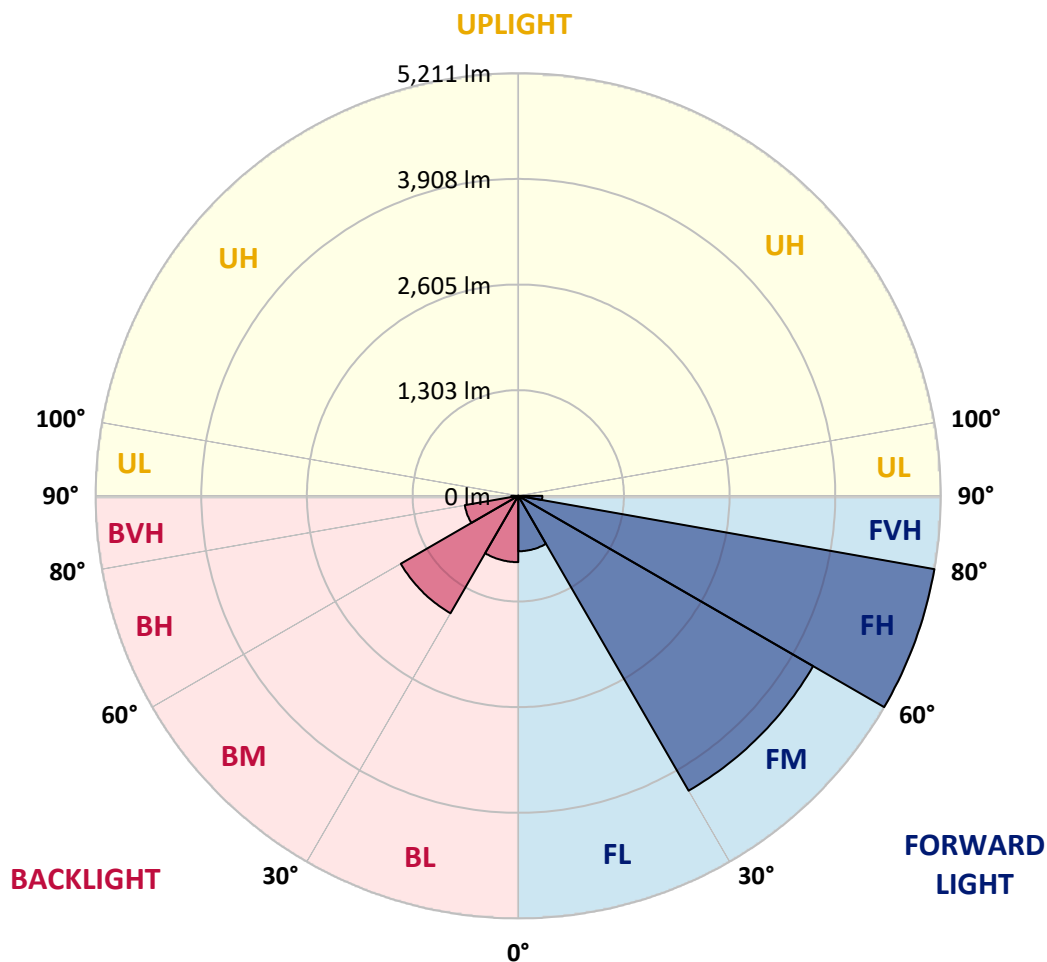
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 683.7  | 5.0       |                         |      |         |
| FM (30°-60°)   | 4198.7 | 30.8      |                         |      |         |
| FH (60°-80°)   | 5210.9 | 38.2      |                         |      | G3/7500 |
| FVH (80°-90°)  | 296.5  | 2.2       |                         |      | G3/500  |
| BL (0°-30°)    | 817.7  | 6.0       | B2/1000                 |      |         |
| BM (30°-60°)   | 1671.9 | 12.3      | B2/2500                 |      |         |
| BH (60°-80°)   | 669.0  | 4.9       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 86.2   | 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°    | 1816.9 | 1816.9 | 1816.9 | 1816.9 | 1816.9  | 1816.9  | 1816.9 | 1816.9 | 1816.9 | 1816.9 | 1816.9 |
| 2.5°  | 1675.4 | 1685.7 | 1690.1 | 1687.9 | 1698.9  | 1697.5  | 1713.0 | 1732.1 | 1758.7 | 1784.4 | 1822.0 |
| 5°    | 1546.4 | 1557.5 | 1567.0 | 1575.8 | 1597.3  | 1603.9  | 1628.2 | 1665.0 | 1713.7 | 1763.1 | 1825.0 |
| 7.5°  | 1426.3 | 1435.8 | 1450.6 | 1466.8 | 1502.9  | 1509.5  | 1550.1 | 1607.6 | 1675.4 | 1747.6 | 1833.1 |
| 10°   | 1328.2 | 1337.8 | 1353.3 | 1371.7 | 1416.7  | 1424.7  | 1476.4 | 1553.0 | 1641.4 | 1732.9 | 1841.9 |
| 12.5° | 1286.2 | 1289.1 | 1298.0 | 1316.4 | 1355.5  | 1360.7  | 1417.4 | 1505.1 | 1608.3 | 1721.8 | 1855.2 |
| 15°   | 1284.0 | 1289.9 | 1290.6 | 1300.2 | 1332.6  | 1334.9  | 1387.1 | 1474.2 | 1587.6 | 1719.6 | 1875.1 |
| 17.5° | 1306.1 | 1310.6 | 1303.9 | 1309.7 | 1337.0  | 1340.7  | 1382.0 | 1459.4 | 1581.1 | 1729.2 | 1909.1 |
| 20°   | 1365.1 | 1368.8 | 1348.9 | 1340.7 | 1360.7  | 1363.6  | 1404.1 | 1469.0 | 1587.6 | 1749.1 | 1955.5 |
| 22.5° | 1490.4 | 1492.6 | 1443.9 | 1410.8 | 1412.2  | 1413.7  | 1449.1 | 1508.1 | 1613.5 | 1785.2 | 2014.4 |
| 25°   | 1685.7 | 1684.2 | 1606.8 | 1542.7 | 1505.8  | 1497.7  | 1521.3 | 1571.4 | 1656.9 | 1833.1 | 2090.4 |
| 27.5° | 1914.2 | 1903.1 | 1825.7 | 1729.9 | 1649.5  | 1637.7  | 1632.6 | 1654.0 | 1718.8 | 1896.5 | 2183.2 |
| 30°   | 2172.2 | 2161.8 | 2078.6 | 1953.2 | 1841.9  | 1822.8  | 1774.2 | 1763.1 | 1811.0 | 1982.8 | 2312.2 |
| 32.5° | 2455.2 | 2448.6 | 2349.1 | 2197.2 | 2048.4  | 2026.2  | 1944.4 | 1914.9 | 1952.5 | 2113.2 | 2492.1 |
| 35°   | 2692.6 | 2686.6 | 2604.1 | 2447.8 | 2265.8  | 2238.5  | 2155.2 | 2122.1 | 2141.2 | 2280.5 | 2727.2 |
| 37.5° | 2907.0 | 2904.1 | 2833.3 | 2710.2 | 2522.3  | 2489.1  | 2395.5 | 2384.5 | 2380.8 | 2500.9 | 3012.5 |
| 40°   | 3106.1 | 3098.7 | 3025.0 | 2960.1 | 2820.8  | 2790.6  | 2708.0 | 2698.4 | 2670.4 | 2772.1 | 3335.2 |
| 42.5° | 3326.4 | 3307.3 | 3200.4 | 3170.1 | 3132.6  | 3107.5  | 3058.1 | 3059.6 | 2997.7 | 3078.1 | 3677.3 |
| 45°   | 3506.3 | 3495.2 | 3385.4 | 3367.7 | 3408.2  | 3398.0  | 3440.7 | 3451.7 | 3331.6 | 3398.7 | 4032.6 |
| 47.5° | 3699.4 | 3689.1 | 3596.2 | 3583.7 | 3693.5  | 3696.5  | 3847.5 | 3851.2 | 3657.4 | 3731.8 | 4388.5 |
| 50°   | 3937.4 | 3922.8 | 3830.6 | 3846.1 | 3969.2  | 3980.2  | 4256.6 | 4231.6 | 3957.3 | 4070.2 | 4741.6 |
| 52.5° | 4094.5 | 4103.3 | 4083.4 | 4108.5 | 4276.5  | 4286.9  | 4659.0 | 4595.0 | 4254.4 | 4404.0 | 5088.0 |
| 55°   | 4210.2 | 4227.9 | 4289.8 | 4347.3 | 4600.8  | 4611.2  | 5038.7 | 4940.6 | 4500.6 | 4713.6 | 5413.8 |
| 57.5° | 4359.1 | 4334.0 | 4449.7 | 4561.8 | 4908.9  | 4936.2  | 5407.9 | 5273.8 | 4718.8 | 4980.5 | 5637.2 |
| 60°   | 4572.8 | 4555.1 | 4645.1 | 4810.9 | 5253.8  | 5297.4  | 5798.6 | 5573.7 | 4878.7 | 5191.9 | 5680.7 |
| 62.5° | 5006.2 | 4962.0 | 4976.0 | 5122.6 | 5688.7  | 5746.3  | 6239.4 | 5835.4 | 4958.3 | 5274.5 | 5447.8 |
| 65°   | 5654.1 | 5578.2 | 5507.4 | 5609.2 | 6301.3  | 6358.1  | 6736.9 | 6041.0 | 4928.8 | 5114.5 | 4829.3 |
| 67.5° | 6470.1 | 6394.9 | 6308.0 | 6403.7 | 7203.5  | 7248.4  | 7350.9 | 6156.8 | 4696.7 | 4498.4 | 3736.2 |
| 70°   | 7143.0 | 7115.0 | 7219.0 | 7613.3 | 8644.4  | 8645.9  | 8138.1 | 6061.0 | 4060.5 | 3189.3 | 2161.8 |
| 72.5° | 7053.8 | 7036.8 | 7584.5 | 8803.6 | 10460.6 | 10421.6 | 8883.3 | 5335.7 | 2735.3 | 1438.8 | 810.1  |
| 75°   | 5786.8 | 5896.6 | 6745.0 | 8782.3 | 11112.9 | 11107.7 | 8427.0 | 3392.0 | 1131.4 | 596.3  | 418.6  |
| 77.5° | 3103.1 | 3277.0 | 4379.0 | 6484.0 | 8675.4  | 8805.9  | 5924.6 | 1186.7 | 485.7  | 381.8  | 289.7  |
| 80°   | 1012.0 | 1163.9 | 1745.4 | 3301.3 | 5637.2  | 5612.8  | 2539.2 | 465.9  | 332.4  | 270.5  | 200.5  |
| 82.5° | 429.7  | 447.4  | 779.8  | 1558.9 | 2893.1  | 2848.1  | 808.6  | 267.5  | 233.7  | 185.0  | 123.8  |
| 85°   | 168.1  | 188.0  | 344.2  | 720.9  | 1253.1  | 1225.8  | 291.9  | 132.6  | 149.6  | 120.8  | 73.7   |
| 87.5° | 55.2   | 67.0   | 123.1  | 246.9  | 389.9   | 375.9   | 71.5   | 45.7   | 64.9   | 55.2   | 26.5   |
| 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°    | 1816.9 | 1816.9 | 1816.9 | 1816.9 | 1816.9 | 1816.9 | 1816.9 | 1816.9 | 1816.9 | 1816.9 | 1816.9 |
| 2.5°  | 1832.4 | 1844.2 | 1858.2 | 1878.8 | 1896.5 | 1911.2 | 1926.7 | 1936.3 | 1940.0 | 1951.1 | 1950.3 |
| 5°    | 1845.6 | 1871.4 | 1906.1 | 1940.0 | 1973.1 | 1993.0 | 2010.7 | 2019.6 | 2027.7 | 2033.6 | 2035.0 |
| 7.5°  | 1867.8 | 1901.0 | 1955.5 | 1999.7 | 2027.7 | 2044.0 | 2055.7 | 2052.8 | 2055.7 | 2057.2 | 2059.4 |
| 10°   | 1886.9 | 1933.4 | 1998.2 | 2040.3 | 2061.6 | 2062.3 | 2059.4 | 2049.1 | 2044.0 | 2044.7 | 2046.1 |
| 12.5° | 1909.8 | 1961.3 | 2031.3 | 2066.8 | 2072.7 | 2056.5 | 2044.0 | 2026.2 | 2019.6 | 2016.7 | 2015.2 |
| 15°   | 1940.7 | 1999.7 | 2067.5 | 2080.8 | 2066.0 | 2045.4 | 2024.0 | 1995.3 | 1980.5 | 1968.7 | 1972.4 |
| 17.5° | 1978.4 | 2043.1 | 2095.5 | 2086.0 | 2054.2 | 2020.4 | 1985.7 | 1942.2 | 1911.9 | 1899.4 | 1900.1 |
| 20°   | 2030.6 | 2088.8 | 2116.9 | 2074.9 | 2026.9 | 1975.4 | 1916.4 | 1863.3 | 1835.4 | 1822.8 | 1821.3 |
| 22.5° | 2094.1 | 2150.0 | 2137.5 | 2055.7 | 1987.9 | 1905.4 | 1831.7 | 1792.6 | 1778.6 | 1769.8 | 1771.2 |
| 25°   | 2169.9 | 2217.9 | 2152.3 | 2027.7 | 1923.8 | 1812.5 | 1755.7 | 1743.2 | 1736.6 | 1729.9 | 1729.9 |
| 27.5° | 2268.7 | 2294.6 | 2163.4 | 1986.4 | 1823.6 | 1713.7 | 1693.1 | 1695.2 | 1693.1 | 1682.0 | 1684.2 |
| 30°   | 2399.2 | 2394.0 | 2173.6 | 1919.3 | 1708.6 | 1624.5 | 1626.0 | 1635.6 | 1637.0 | 1629.6 | 1633.3 |
| 32.5° | 2570.9 | 2518.6 | 2178.8 | 1832.4 | 1598.7 | 1546.4 | 1547.9 | 1558.2 | 1565.6 | 1553.0 | 1558.9 |
| 35°   | 2778.8 | 2663.8 | 2170.6 | 1723.3 | 1513.9 | 1471.9 | 1460.9 | 1463.8 | 1466.1 | 1454.3 | 1462.4 |
| 37.5° | 3021.3 | 2826.6 | 2134.6 | 1602.4 | 1443.9 | 1399.0 | 1375.3 | 1355.5 | 1343.7 | 1332.6 | 1340.0 |
| 40°   | 3287.4 | 3004.4 | 2068.2 | 1484.5 | 1365.8 | 1321.5 | 1286.2 | 1248.7 | 1208.8 | 1194.0 | 1200.7 |
| 42.5° | 3566.0 | 3187.1 | 1987.9 | 1371.7 | 1275.9 | 1239.7 | 1202.2 | 1147.6 | 1087.9 | 1057.7 | 1061.4 |
| 45°   | 3854.9 | 3374.3 | 1909.1 | 1260.4 | 1183.8 | 1168.3 | 1124.7 | 1059.1 | 994.4  | 956.0  | 953.0  |
| 47.5° | 4137.9 | 3551.2 | 1793.3 | 1148.4 | 1097.5 | 1114.5 | 1080.6 | 1020.1 | 947.9  | 887.4  | 880.8  |
| 50°   | 4408.4 | 3717.1 | 1603.9 | 1034.8 | 1027.5 | 1098.3 | 1065.8 | 978.9  | 896.3  | 818.9  | 812.2  |
| 52.5° | 4676.8 | 3851.2 | 1361.4 | 931.6  | 989.9  | 1093.8 | 1046.6 | 950.8  | 849.8  | 768.7  | 759.9  |
| 55°   | 4904.5 | 3920.5 | 1127.7 | 843.3  | 935.3  | 1056.3 | 1023.8 | 917.7  | 784.2  | 698.0  | 690.6  |
| 57.5° | 5034.3 | 3864.5 | 933.2  | 756.2  | 860.2  | 994.4  | 984.7  | 846.9  | 706.1  | 639.8  | 630.9  |
| 60°   | 4978.2 | 3637.5 | 774.0  | 680.3  | 788.6  | 927.2  | 917.0  | 776.8  | 646.5  | 583.7  | 574.9  |
| 62.5° | 4669.4 | 3204.8 | 647.9  | 614.0  | 723.9  | 858.7  | 849.1  | 723.0  | 600.8  | 540.3  | 530.7  |
| 65°   | 4047.3 | 2607.1 | 549.8  | 558.7  | 658.3  | 776.1  | 790.2  | 678.1  | 564.6  | 505.6  | 496.1  |
| 67.5° | 3086.9 | 1888.4 | 473.2  | 510.8  | 594.1  | 695.1  | 735.6  | 645.6  | 534.3  | 478.4  | 469.6  |
| 70°   | 1759.4 | 1072.5 | 408.4  | 464.3  | 537.3  | 619.9  | 693.6  | 619.9  | 501.9  | 455.5  | 449.7  |
| 72.5° | 667.1  | 492.4  | 353.0  | 417.9  | 482.8  | 556.5  | 647.2  | 579.3  | 464.3  | 429.7  | 423.8  |
| 75°   | 356.0  | 300.0  | 297.0  | 363.4  | 420.1  | 494.6  | 589.0  | 539.6  | 436.3  | 454.1  | 468.7  |
| 77.5° | 242.5  | 212.3  | 248.4  | 311.1  | 351.6  | 426.0  | 527.1  | 479.1  | 378.1  | 376.7  | 347.2  |
| 80°   | 168.1  | 150.4  | 201.9  | 250.6  | 271.9  | 358.2  | 459.9  | 411.3  | 308.1  | 287.4  | 274.9  |
| 82.5° | 101.0  | 98.0   | 151.1  | 187.3  | 192.4  | 276.4  | 381.1  | 344.9  | 252.0  | 219.7  | 221.1  |
| 85°   | 55.2   | 58.2   | 96.6   | 109.8  | 112.0  | 193.1  | 298.5  | 266.8  | 193.8  | 162.9  | 164.4  |
| 87.5° | 15.5   | 19.9   | 35.4   | 43.5   | 53.8   | 100.2  | 177.6  | 158.5  | 97.3   | 67.9   | 67.9   |
| 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)