

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: P963549

Luminaire Tested: **NVN-SB3A-740-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P963549  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB3A-740-U-T2  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

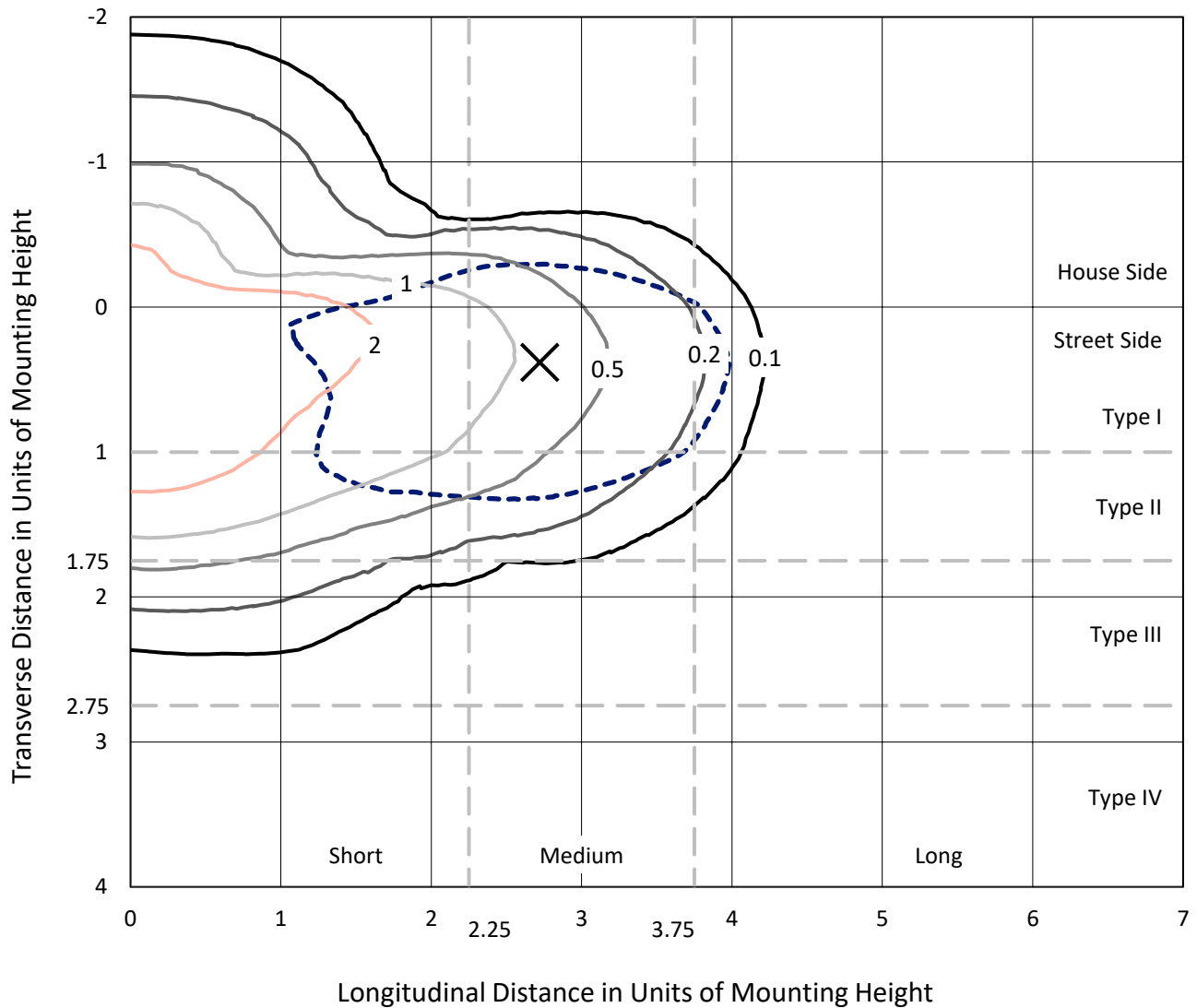
Lumens per Lamp: N/A  
Luminaire Lumens: 14461.7 lumens  
Efficiency: N/A  
Efficacy: 170.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

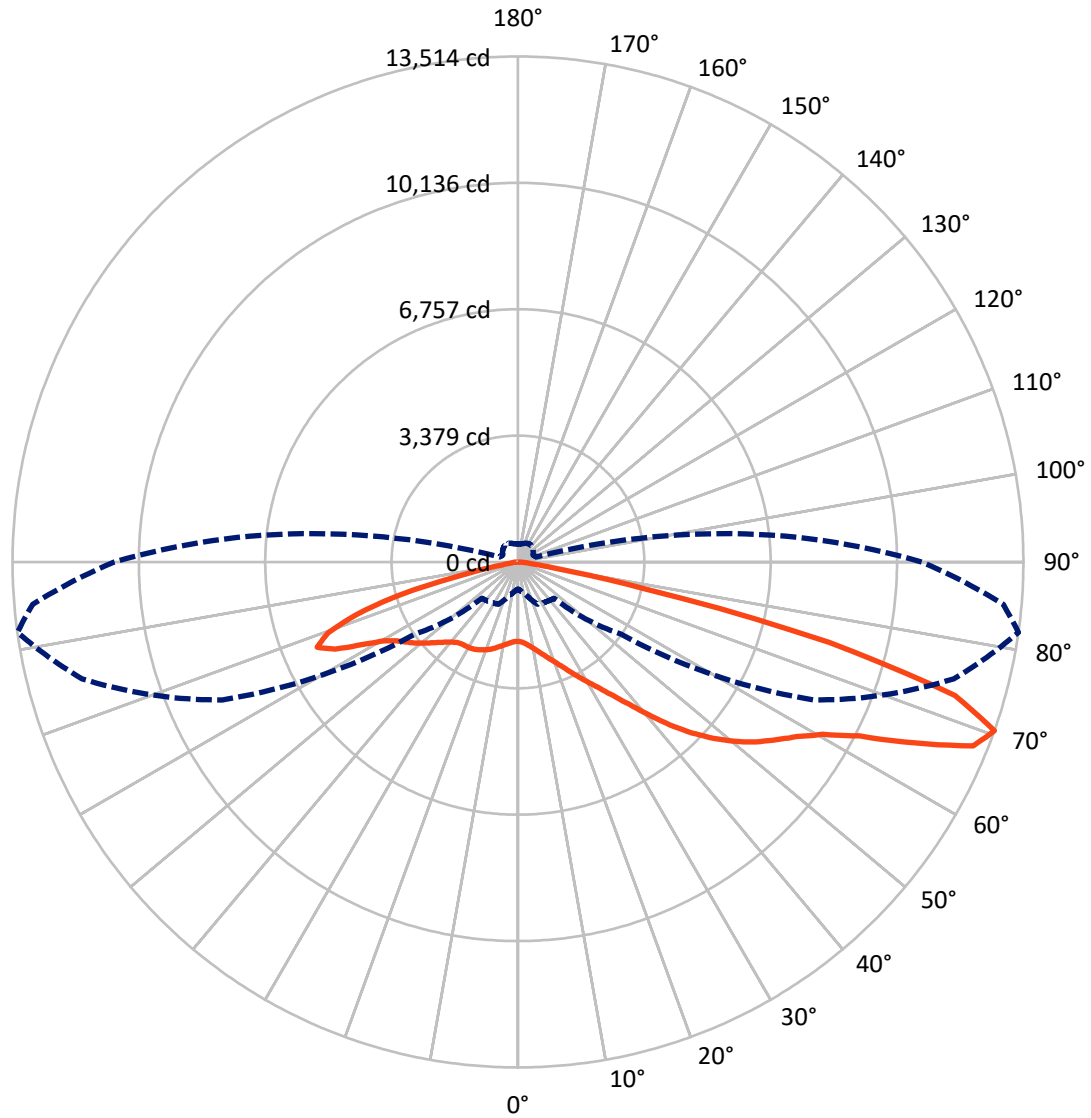
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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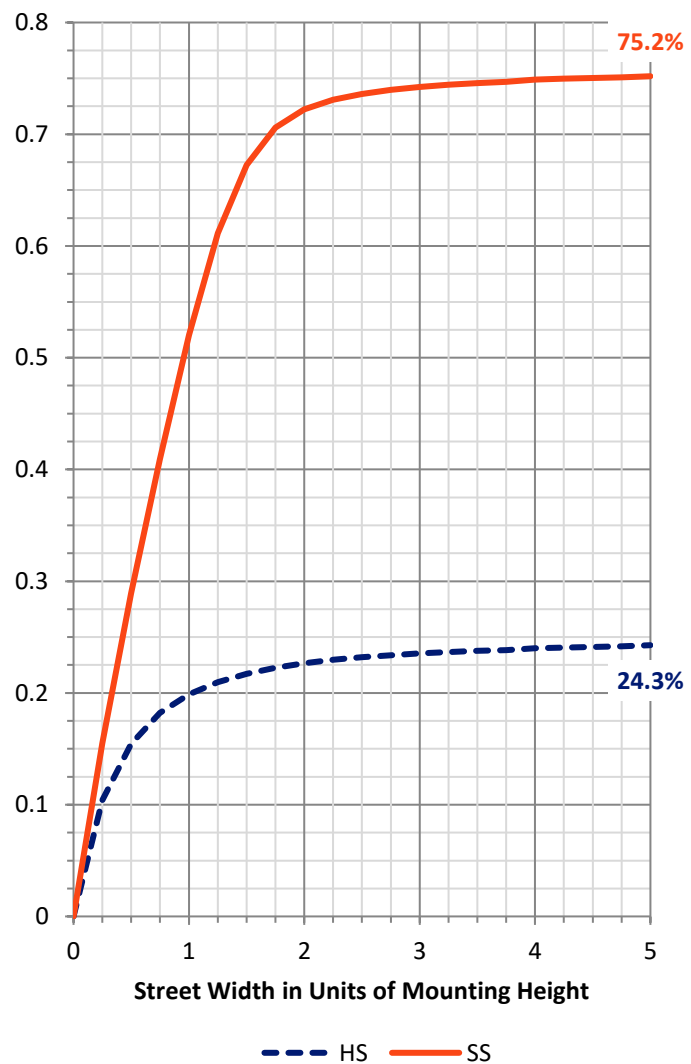
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3565.2   | 0.0    | 3565.2  |
|                    | % Fixture | 24.7     | 0.0    | 24.7    |
| <b>Street Side</b> | Lumens    | 10896.6  | 0.0    | 10896.6 |
|                    | % Fixture | 75.3     | 0.0    | 75.3    |
| <b>Total</b>       | Lumens    | 14461.7  | 0.0    | 14461.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 200.2   | 1.4       |
| 10°-20°   | 575.2   | 4.0       |
| 20°-30°   | 962.2   | 6.7       |
| 30°-40°   | 1503.2  | 10.4      |
| 40°-50°   | 2394.0  | 16.6      |
| 50°-60°   | 3331.5  | 23.0      |
| 60°-70°   | 3484.9  | 24.1      |
| 70°-80°   | 1821.4  | 12.6      |
| 80°-90°   | 189.1   | 1.3       |
| 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°    | 14461.7 | 100.0     |
| 0°-180°   | 14461.7 | 100.0     |

**Coefficient of Utilization**



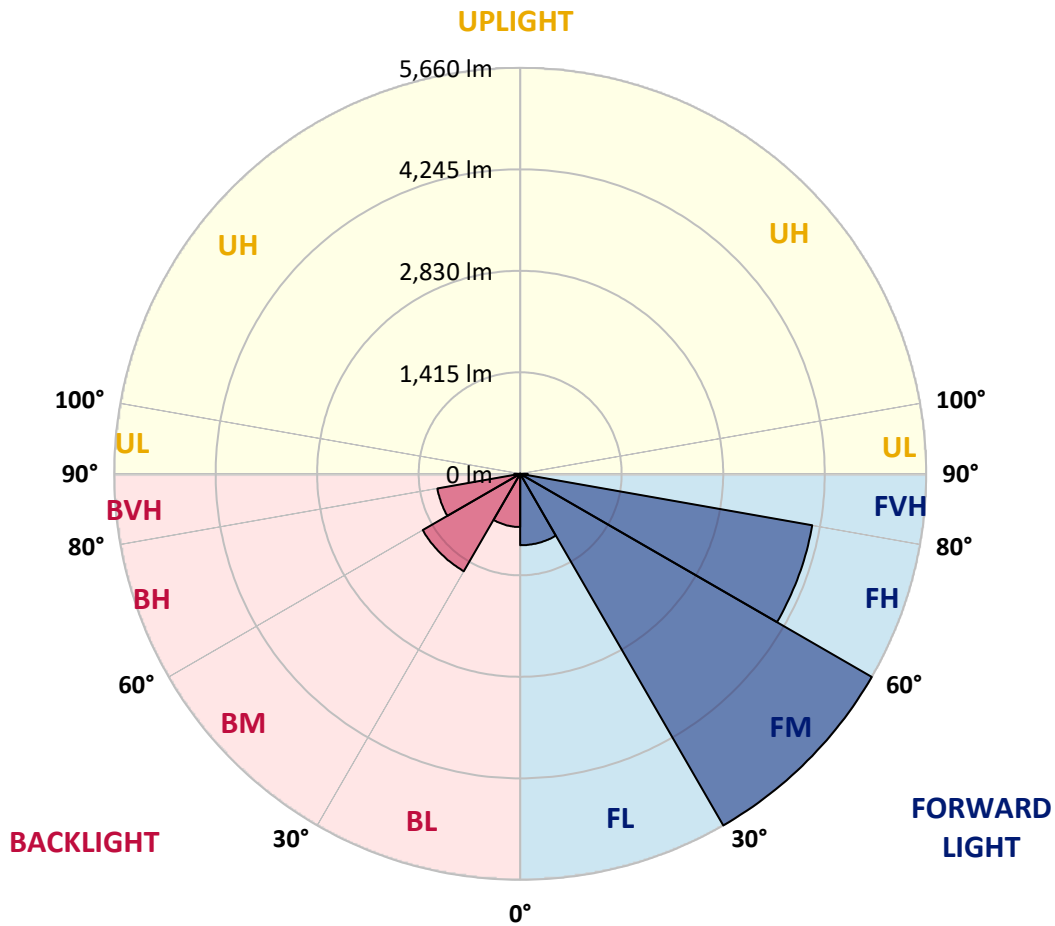
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 995.9  | 6.9       |                         |      |         |
| FM (30°-60°)   | 5660.2 | 39.1      |                         |      |         |
| FH (60°-80°)   | 4134.7 | 28.6      |                         |      | G2/5000 |
| FVH (80°-90°)  | 105.9  | 0.7       |                         |      | G2/225  |
| BL (0°-30°)    | 741.7  | 5.1       | B2/1000                 |      |         |
| BM (30°-60°)   | 1568.5 | 10.8      | B2/2500                 |      |         |
| BH (60°-80°)   | 1171.7 | 8.1       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 83.2   | 0.6       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

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

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°     | 75°     | 82°     | 85°     |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0°    | 2120.3 | 2120.3 | 2120.3 | 2120.3 | 2120.3 | 2120.3 | 2120.3 | 2120.3  | 2120.3  | 2120.3  | 2120.3  |
| 2.5°  | 2171.0 | 2183.1 | 2179.4 | 2175.6 | 2175.6 | 2170.1 | 2169.4 | 2161.7  | 2155.6  | 2145.6  | 2143.3  |
| 5°    | 2198.5 | 2211.5 | 2210.0 | 2213.1 | 2223.1 | 2225.4 | 2227.7 | 2223.1  | 2210.8  | 2198.5  | 2193.2  |
| 7.5°  | 2174.0 | 2188.6 | 2193.2 | 2211.5 | 2242.3 | 2269.9 | 2290.7 | 2299.1  | 2287.6  | 2269.9  | 2261.5  |
| 10°   | 2091.1 | 2107.2 | 2123.4 | 2167.1 | 2221.6 | 2286.8 | 2342.0 | 2375.0  | 2372.8  | 2355.9  | 2341.3  |
| 12.5° | 1923.0 | 1939.9 | 1974.5 | 2059.6 | 2159.4 | 2274.5 | 2377.4 | 2446.4  | 2470.1  | 2458.0  | 2432.6  |
| 15°   | 1788.7 | 1803.4 | 1829.4 | 1917.0 | 2046.6 | 2221.6 | 2390.4 | 2524.7  | 2585.3  | 2578.4  | 2547.7  |
| 17.5° | 1784.9 | 1791.1 | 1807.2 | 1848.6 | 1948.4 | 2138.7 | 2376.6 | 2601.4  | 2717.3  | 2716.6  | 2678.1  |
| 20°   | 1852.5 | 1854.7 | 1864.0 | 1872.4 | 1929.2 | 2075.7 | 2341.3 | 2665.1  | 2865.4  | 2865.4  | 2824.0  |
| 22.5° | 1946.1 | 1944.5 | 1953.8 | 1946.1 | 1973.7 | 2070.4 | 2319.1 | 2721.2  | 3030.4  | 3042.6  | 2990.4  |
| 25°   | 2086.5 | 2078.8 | 2076.5 | 2058.9 | 2064.2 | 2120.3 | 2343.6 | 2784.8  | 3226.1  | 3251.4  | 3186.1  |
| 27.5° | 2273.8 | 2261.5 | 2253.1 | 2212.4 | 2198.5 | 2223.1 | 2418.8 | 2861.6  | 3444.0  | 3487.8  | 3404.8  |
| 30°   | 2517.8 | 2495.6 | 2483.3 | 2412.6 | 2362.7 | 2366.6 | 2532.4 | 2963.6  | 3672.0  | 3742.5  | 3637.4  |
| 32.5° | 2850.8 | 2816.3 | 2783.3 | 2667.5 | 2576.1 | 2546.2 | 2678.9 | 3104.8  | 3919.0  | 4031.8  | 3896.7  |
| 35°   | 3223.7 | 3196.2 | 3160.8 | 2982.0 | 2841.6 | 2772.5 | 2876.9 | 3302.0  | 4208.3  | 4387.1  | 4211.4  |
| 37.5° | 3582.9 | 3559.1 | 3576.0 | 3335.0 | 3153.9 | 3053.4 | 3136.3 | 3566.8  | 4565.1  | 4829.1  | 4605.8  |
| 40°   | 3954.3 | 3935.9 | 3938.2 | 3707.9 | 3497.0 | 3384.1 | 3450.9 | 3899.1  | 4974.1  | 5354.8  | 5080.0  |
| 42.5° | 4358.0 | 4344.2 | 4298.1 | 4094.0 | 3856.9 | 3751.7 | 3813.1 | 4282.8  | 5413.1  | 5953.3  | 5600.3  |
| 45°   | 4809.9 | 4801.5 | 4758.6 | 4524.5 | 4252.8 | 4134.6 | 4217.6 | 4706.4  | 5854.3  | 6516.5  | 6122.9  |
| 47.5° | 5200.5 | 5207.4 | 5202.1 | 5004.9 | 4723.2 | 4549.8 | 4648.8 | 5148.4  | 6264.9  | 7046.1  | 6624.1  |
| 50°   | 5388.5 | 5424.6 | 5477.6 | 5416.2 | 5241.2 | 5064.7 | 5083.9 | 5575.0  | 6656.2  | 7542.6  | 7104.4  |
| 52.5° | 5290.3 | 5358.6 | 5502.9 | 5601.1 | 5668.7 | 5631.8 | 5580.4 | 5998.6  | 7024.6  | 7990.7  | 7558.7  |
| 55°   | 4924.3 | 5020.2 | 5259.6 | 5496.8 | 5841.3 | 6109.1 | 6176.6 | 6468.3  | 7383.7  | 8385.1  | 7988.4  |
| 57.5° | 4257.4 | 4413.2 | 4628.1 | 5107.7 | 5687.8 | 6340.1 | 6871.9 | 7119.8  | 7764.4  | 8806.5  | 8438.1  |
| 60°   | 3114.1 | 3322.7 | 3589.8 | 4303.5 | 5150.6 | 6216.5 | 7463.5 | 8120.5  | 8305.4  | 9352.1  | 9023.6  |
| 62.5° | 1992.9 | 2121.9 | 2367.3 | 3039.6 | 4013.4 | 5583.5 | 7644.7 | 9371.3  | 9222.3  | 10246.8 | 9901.5  |
| 65°   | 1364.4 | 1447.3 | 1672.1 | 2049.7 | 2594.5 | 4156.2 | 7159.6 | 10308.9 | 10678.9 | 11664.9 | 11402.5 |
| 67.5° | 991.5  | 1054.4 | 1246.2 | 1577.0 | 1690.5 | 2459.5 | 5555.8 | 10266.0 | 12094.7 | 13126.0 | 12717.8 |
| 70°   | 722.8  | 767.4  | 928.5  | 1246.2 | 1300.7 | 1368.3 | 3365.7 | 8726.6  | 12063.9 | 13514.3 | 13025.5 |
| 72.5° | 535.7  | 566.3  | 674.6  | 966.9  | 1052.9 | 923.9  | 1665.9 | 6342.4  | 10366.5 | 12223.6 | 11831.5 |
| 75°   | 387.6  | 410.5  | 490.4  | 739.7  | 842.6  | 703.7  | 831.1  | 3706.4  | 7231.1  | 8598.5  | 8667.5  |
| 77.5° | 296.2  | 313.9  | 366.0  | 541.8  | 674.6  | 528.0  | 515.7  | 1705.1  | 3428.6  | 3445.5  | 3639.0  |
| 80°   | 237.9  | 249.4  | 277.8  | 381.4  | 517.2  | 395.2  | 336.1  | 688.4   | 1083.5  | 917.1   | 962.3   |
| 82.5° | 175.0  | 194.1  | 234.8  | 267.8  | 369.9  | 272.4  | 204.9  | 347.6   | 412.0   | 354.5   | 357.6   |
| 85°   | 99.7   | 112.9  | 142.0  | 191.9  | 236.4  | 166.6  | 117.4  | 154.3   | 191.9   | 157.3   | 140.4   |
| 87.5° | 35.3   | 46.0   | 49.9   | 75.2   | 102.8  | 69.1   | 45.3   | 44.5    | 62.9    | 46.8    | 39.2    |
| 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°    | 2120.3  | 2120.3 | 2120.3 | 2120.3 | 2120.3 | 2120.3 | 2120.3 | 2120.3 | 2120.3 | 2120.3 | 2120.3 |
| 2.5°  | 2135.6  | 2131.8 | 2116.4 | 2095.7 | 2074.2 | 2053.5 | 2046.6 | 2032.1 | 2022.0 | 2016.7 | 2022.8 |
| 5°    | 2178.6  | 2166.3 | 2130.3 | 2084.2 | 2035.9 | 1983.7 | 1946.9 | 1913.1 | 1888.6 | 1865.5 | 1874.7 |
| 7.5°  | 2239.9  | 2218.5 | 2156.3 | 2075.7 | 1989.8 | 1903.1 | 1838.6 | 1789.5 | 1756.5 | 1735.0 | 1739.6 |
| 10°   | 2311.4  | 2278.4 | 2183.1 | 2062.7 | 1930.0 | 1805.6 | 1729.7 | 1687.5 | 1666.8 | 1655.3 | 1658.3 |
| 12.5° | 2393.5  | 2346.6 | 2210.8 | 2032.8 | 1838.6 | 1696.7 | 1644.5 | 1632.2 | 1633.0 | 1633.7 | 1635.3 |
| 15°   | 2494.7  | 2429.6 | 2233.1 | 1967.6 | 1719.7 | 1613.0 | 1603.8 | 1623.8 | 1644.5 | 1654.5 | 1653.7 |
| 17.5° | 2609.1  | 2517.0 | 2237.0 | 1860.2 | 1603.1 | 1559.3 | 1588.4 | 1631.5 | 1663.0 | 1676.7 | 1679.8 |
| 20°   | 2731.8  | 2606.1 | 2209.3 | 1708.2 | 1507.2 | 1515.6 | 1567.7 | 1623.0 | 1657.5 | 1675.2 | 1679.8 |
| 22.5° | 2872.3  | 2701.2 | 2143.3 | 1548.6 | 1428.8 | 1468.0 | 1529.4 | 1583.1 | 1619.2 | 1636.8 | 1641.4 |
| 25°   | 3032.7  | 2807.9 | 2039.6 | 1414.3 | 1361.3 | 1414.3 | 1475.7 | 1520.2 | 1549.4 | 1565.5 | 1570.1 |
| 27.5° | 3210.7  | 2919.1 | 1901.6 | 1307.6 | 1302.3 | 1359.0 | 1409.7 | 1444.2 | 1459.6 | 1471.8 | 1476.4 |
| 30°   | 3389.5  | 3020.4 | 1734.3 | 1227.0 | 1250.8 | 1304.5 | 1340.6 | 1356.0 | 1360.6 | 1362.8 | 1368.3 |
| 32.5° | 3582.9  | 3107.9 | 1558.5 | 1160.3 | 1201.7 | 1251.6 | 1273.0 | 1280.0 | 1258.5 | 1243.9 | 1248.6 |
| 35°   | 3816.9  | 3201.5 | 1386.6 | 1107.3 | 1153.3 | 1196.4 | 1203.2 | 1197.1 | 1171.8 | 1141.8 | 1143.4 |
| 37.5° | 4106.3  | 3318.1 | 1249.3 | 1069.7 | 1108.1 | 1136.5 | 1128.0 | 1126.5 | 1128.8 | 1093.5 | 1095.8 |
| 40°   | 4460.8  | 3470.1 | 1148.7 | 1040.6 | 1071.2 | 1077.4 | 1053.6 | 1066.6 | 1078.2 | 1024.5 | 1026.0 |
| 42.5° | 4854.4  | 3653.5 | 1085.1 | 1020.6 | 1040.6 | 1026.0 | 989.1  | 1003.8 | 1002.2 | 931.6  | 930.8  |
| 45°   | 5255.8  | 3853.0 | 1062.8 | 1006.0 | 1012.2 | 983.0  | 942.4  | 946.2  | 914.0  | 850.2  | 852.6  |
| 47.5° | 5654.8  | 4067.1 | 1076.7 | 993.7  | 976.8  | 943.9  | 912.5  | 895.5  | 848.0  | 800.4  | 800.4  |
| 50°   | 6046.2  | 4292.0 | 1127.3 | 969.2  | 928.5  | 909.4  | 886.3  | 856.4  | 805.8  | 765.1  | 762.0  |
| 52.5° | 6409.1  | 4518.3 | 1184.1 | 928.5  | 867.9  | 879.4  | 864.8  | 830.4  | 780.4  | 739.0  | 739.7  |
| 55°   | 6752.9  | 4744.7 | 1206.3 | 872.5  | 811.1  | 853.3  | 844.9  | 781.2  | 721.3  | 687.6  | 684.5  |
| 57.5° | 7127.4  | 5017.2 | 1181.7 | 801.1  | 765.1  | 823.4  | 791.2  | 720.6  | 686.0  | 660.7  | 658.5  |
| 60°   | 7646.2  | 5444.6 | 1128.8 | 712.9  | 721.3  | 778.9  | 723.6  | 694.4  | 656.9  | 628.5  | 627.0  |
| 62.5° | 8507.9  | 6241.8 | 1043.7 | 625.5  | 669.9  | 712.9  | 691.4  | 662.3  | 623.9  | 596.2  | 596.2  |
| 65°   | 9781.8  | 7350.0 | 883.2  | 557.1  | 612.3  | 648.4  | 656.9  | 627.7  | 587.8  | 558.6  | 560.2  |
| 67.5° | 10856.1 | 8045.2 | 668.4  | 500.3  | 553.3  | 596.2  | 620.0  | 591.6  | 549.4  | 521.0  | 521.8  |
| 70°   | 10797.0 | 7540.3 | 510.3  | 444.3  | 501.1  | 544.9  | 575.5  | 553.3  | 508.0  | 481.1  | 483.5  |
| 72.5° | 9589.9  | 6307.8 | 412.9  | 387.6  | 448.1  | 491.1  | 528.0  | 511.1  | 465.0  | 438.9  | 438.9  |
| 75°   | 7045.3  | 4477.6 | 329.9  | 329.9  | 382.1  | 435.1  | 475.8  | 465.0  | 422.8  | 404.4  | 399.0  |
| 77.5° | 2969.7  | 1878.5 | 258.6  | 274.0  | 317.6  | 373.7  | 424.4  | 428.2  | 391.3  | 414.4  | 376.0  |
| 80°   | 789.7   | 517.9  | 197.2  | 215.7  | 249.4  | 308.5  | 369.1  | 367.6  | 327.7  | 306.2  | 284.7  |
| 82.5° | 300.8   | 204.1  | 140.4  | 151.9  | 180.3  | 236.4  | 292.3  | 301.6  | 261.7  | 226.4  | 226.4  |
| 85°   | 115.8   | 87.4   | 86.7   | 91.3   | 105.2  | 156.5  | 221.0  | 228.7  | 197.2  | 167.3  | 172.6  |
| 87.5° | 29.9    | 26.1   | 32.2   | 30.6   | 48.4   | 83.6   | 126.6  | 131.2  | 120.4  | 69.8   | 99.7   |
| 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)