

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: P960399

Luminaire Tested: **NVN-SB1C-750-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P960399  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB1C-750-U-AFL-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 5000K, 615mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

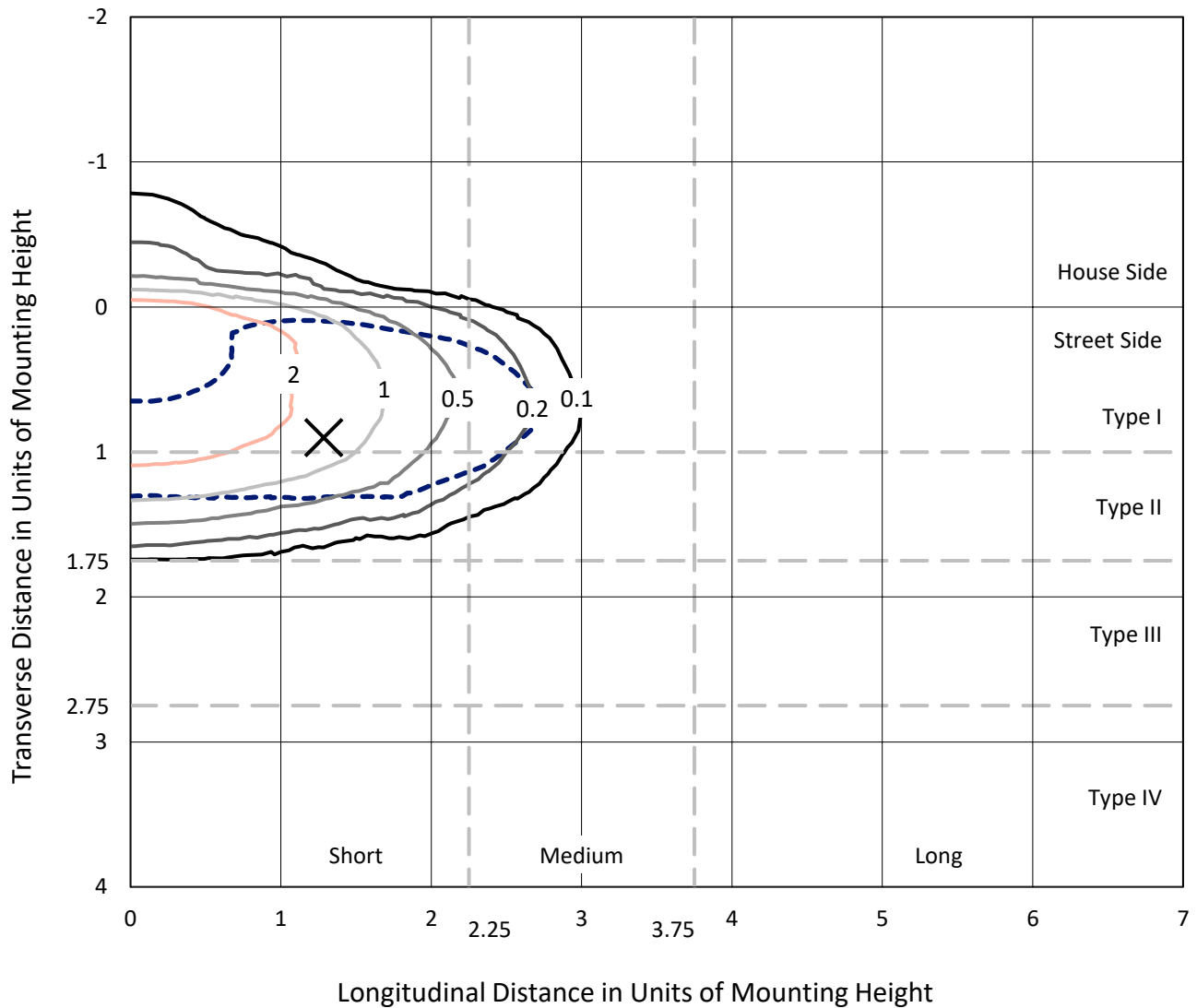
Lumens per Lamp: N/A  
Luminaire Lumens: 6926.9 lumens  
Efficiency: N/A  
Efficacy: 127.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): 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

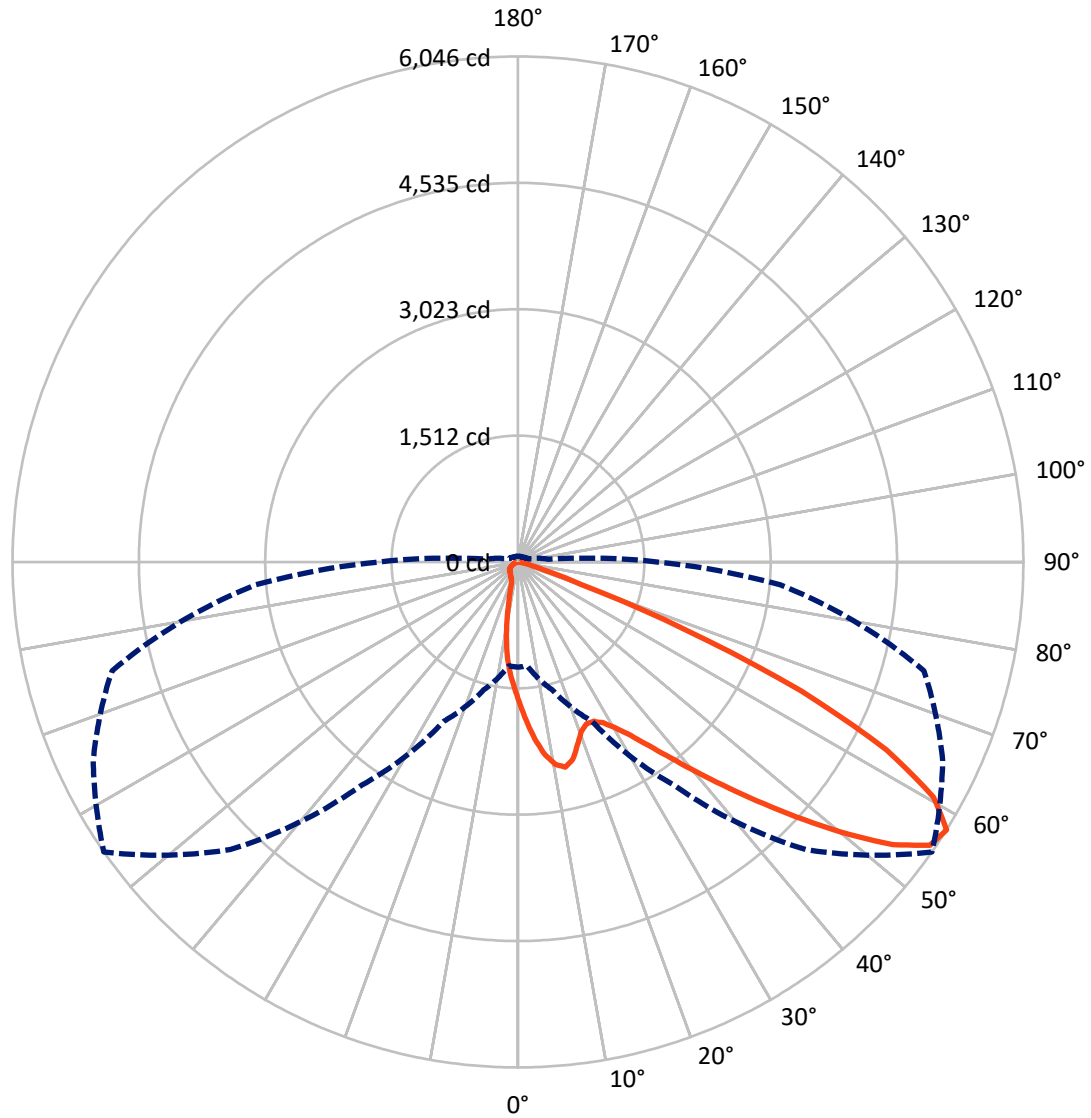
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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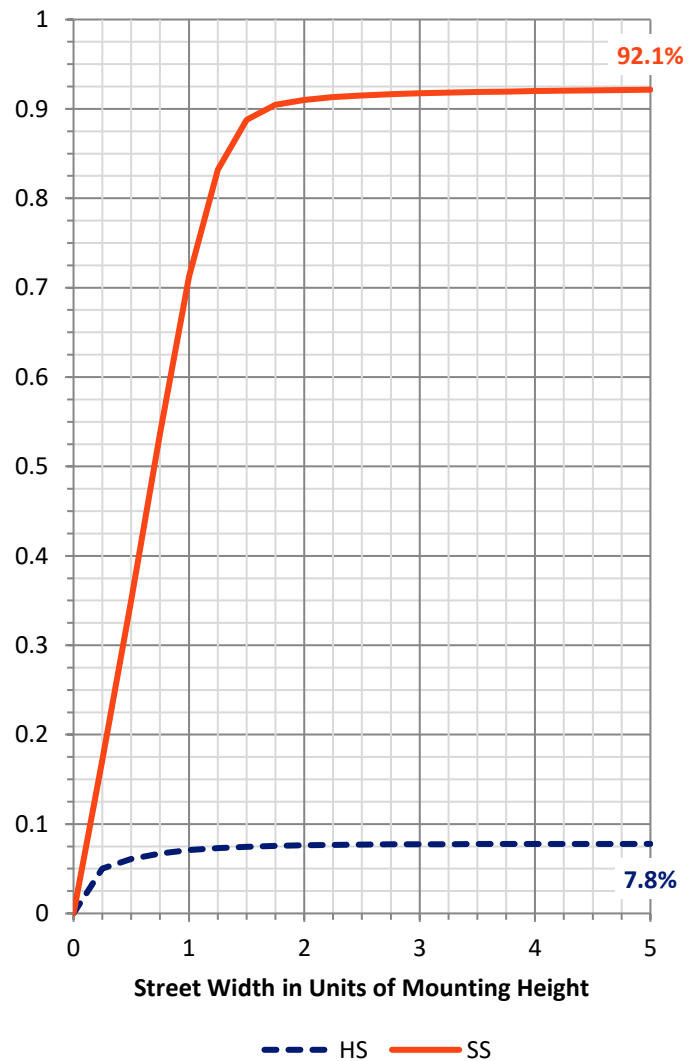
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 541.0    | 0.0    | 541.0  |
|                    | % Fixture | 7.8      | 0.0    | 7.8    |
| <b>Street Side</b> | Lumens    | 6386.0   | 0.0    | 6386.0 |
|                    | % Fixture | 92.2     | 0.0    | 92.2   |
| <b>Total</b>       | Lumens    | 6926.9   | 0.0    | 6926.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 155.3  | 2.2       |
| 10°-20°   | 375.2  | 5.4       |
| 20°-30°   | 600.2  | 8.7       |
| 30°-40°   | 1016.0 | 14.7      |
| 40°-50°   | 1668.0 | 24.1      |
| 50°-60°   | 1833.2 | 26.5      |
| 60°-70°   | 1051.5 | 15.2      |
| 70°-80°   | 214.9  | 3.1       |
| 80°-90°   | 12.7   | 0.2       |
| 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°    | 6926.9 | 100.0     |
| 0°-180°   | 6926.9 | 100.0     |

**Coefficient of Utilization**



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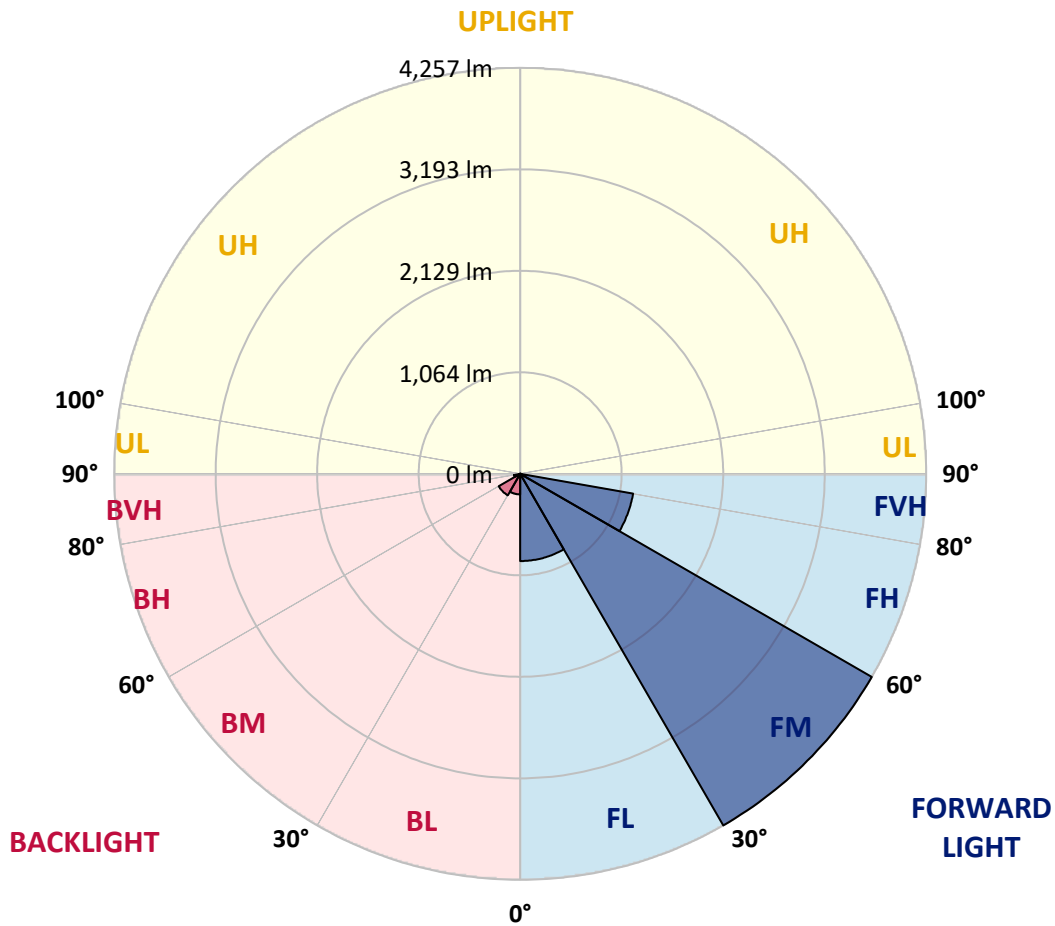
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 914.7  | 13.2      |                         |      |         |
| FM (30°-60°)   | 4257.4 | 61.5      |                         |      |         |
| FH (60°-80°)   | 1202.1 | 17.4      |                         |      | G1/1800 |
| FVH (80°-90°)  | 11.8   | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 216.0  | 3.1       | B1/500                  |      |         |
| BM (30°-60°)   | 259.8  | 3.8       | B1/1000                 |      |         |
| BH (60°-80°)   | 64.3   | 0.9       | B0/110                  |      | G0/110  |
| BVH (80°-90°)  | 0.9    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G1**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1669.2 | 1669.2 | 1669.2 | 1669.2 | 1669.2 | 1669.2 | 1669.2 | 1669.2 | 1669.2 | 1669.2 | 1669.2 |
| 2.5°  | 2071.1 | 2045.1 | 2041.3 | 2036.2 | 1986.6 | 1949.4 | 1895.6 | 1836.7 | 1770.5 | 1702.9 | 1673.1 |
| 5°    | 2392.8 | 2372.3 | 2368.5 | 2344.5 | 2288.1 | 2225.0 | 2129.2 | 2008.4 | 1885.0 | 1739.7 | 1677.3 |
| 7.5°  | 2455.2 | 2451.3 | 2468.8 | 2468.0 | 2460.3 | 2410.3 | 2329.5 | 2185.6 | 2000.3 | 1784.9 | 1688.5 |
| 10°   | 2177.1 | 2186.9 | 2239.0 | 2284.7 | 2408.1 | 2479.9 | 2462.4 | 2343.7 | 2119.0 | 1836.7 | 1700.8 |
| 12.5° | 1923.8 | 1912.2 | 1949.4 | 2001.1 | 2144.6 | 2358.2 | 2517.5 | 2475.7 | 2254.8 | 1895.2 | 1719.2 |
| 15°   | 1764.9 | 1760.2 | 1781.1 | 1805.0 | 1914.4 | 2129.6 | 2453.4 | 2582.9 | 2385.5 | 1964.4 | 1747.0 |
| 17.5° | 1714.1 | 1710.2 | 1716.7 | 1722.6 | 1793.5 | 1960.1 | 2300.9 | 2648.6 | 2510.6 | 2043.4 | 1777.8 |
| 20°   | 1755.5 | 1750.4 | 1749.6 | 1744.9 | 1774.3 | 1887.9 | 2163.0 | 2653.3 | 2623.0 | 2115.2 | 1804.2 |
| 22.5° | 1876.4 | 1870.4 | 1849.5 | 1830.6 | 1833.2 | 1897.8 | 2101.5 | 2606.4 | 2707.5 | 2182.2 | 1820.8 |
| 25°   | 2095.5 | 2085.7 | 2042.1 | 1978.9 | 1938.8 | 1966.1 | 2110.9 | 2544.5 | 2788.3 | 2234.7 | 1812.7 |
| 27.5° | 2369.7 | 2356.9 | 2300.9 | 2207.0 | 2115.2 | 2081.9 | 2178.7 | 2501.7 | 2855.3 | 2274.9 | 1795.2 |
| 30°   | 2638.4 | 2621.7 | 2566.6 | 2493.6 | 2359.4 | 2254.4 | 2301.3 | 2520.5 | 2935.2 | 2316.7 | 1772.1 |
| 32.5° | 2928.4 | 2912.6 | 2839.6 | 2749.0 | 2637.9 | 2496.6 | 2469.2 | 2612.3 | 3033.1 | 2375.2 | 1755.9 |
| 35°   | 3295.3 | 3270.6 | 3166.7 | 3043.3 | 2925.5 | 2782.4 | 2696.5 | 2770.8 | 3163.4 | 2464.5 | 1764.9 |
| 37.5° | 3713.1 | 3679.7 | 3567.8 | 3397.4 | 3243.6 | 3083.4 | 2973.2 | 2988.6 | 3354.2 | 2584.1 | 1792.6 |
| 40°   | 4106.9 | 4076.5 | 3973.2 | 3812.6 | 3619.5 | 3425.1 | 3307.7 | 3273.5 | 3617.8 | 2729.8 | 1841.3 |
| 42.5° | 4343.0 | 4315.8 | 4272.2 | 4204.2 | 4041.5 | 3843.3 | 3695.1 | 3621.2 | 3929.6 | 2904.0 | 1900.8 |
| 45°   | 4356.2 | 4332.4 | 4390.9 | 4469.9 | 4437.8 | 4305.9 | 4125.2 | 3989.8 | 4242.7 | 3067.6 | 1962.3 |
| 47.5° | 4144.5 | 4128.2 | 4305.9 | 4581.9 | 4719.4 | 4774.9 | 4608.3 | 4327.7 | 4501.1 | 3185.1 | 1987.5 |
| 50°   | 3567.0 | 3561.0 | 3926.6 | 4433.2 | 4826.5 | 5185.8 | 5117.8 | 4642.0 | 4701.5 | 3245.8 | 1963.5 |
| 52.5° | 3092.8 | 3071.1 | 3284.2 | 3957.3 | 4670.6 | 5402.0 | 5615.9 | 4950.4 | 4841.5 | 3257.2 | 1907.5 |
| 55°   | 2345.8 | 2326.5 | 2594.0 | 3161.2 | 4168.0 | 5325.1 | 5980.3 | 5268.6 | 4941.9 | 3227.8 | 1807.2 |
| 57.5° | 1258.3 | 1246.4 | 1584.2 | 2104.0 | 3258.2 | 4863.7 | 6046.1 | 5605.2 | 5026.5 | 3149.6 | 1666.6 |
| 60°   | 489.9  | 487.8  | 614.2  | 1020.8 | 1980.2 | 3956.9 | 5714.2 | 5807.2 | 5079.4 | 3053.6 | 1549.2 |
| 62.5° | 296.4  | 302.8  | 323.4  | 458.3  | 874.7  | 2458.2 | 4949.1 | 5577.4 | 5114.9 | 2965.5 | 1452.2 |
| 65°   | 245.2  | 245.6  | 248.2  | 314.8  | 419.0  | 1028.5 | 3725.9 | 4821.4 | 5027.3 | 2808.8 | 1314.7 |
| 67.5° | 210.1  | 214.0  | 223.9  | 249.9  | 295.6  | 451.0  | 2145.0 | 3734.8 | 4494.7 | 2444.0 | 1100.3 |
| 70°   | 165.7  | 170.9  | 183.3  | 205.4  | 228.1  | 282.3  | 792.7  | 2485.0 | 3433.6 | 1842.2 | 832.1  |
| 72.5° | 139.7  | 139.2  | 145.7  | 167.0  | 181.1  | 198.6  | 304.9  | 1392.5 | 1995.6 | 879.4  | 411.7  |
| 75°   | 108.0  | 112.3  | 120.4  | 139.7  | 148.2  | 143.9  | 165.3  | 508.7  | 715.0  | 266.5  | 140.1  |
| 77.5° | 84.6   | 87.9   | 95.2   | 114.1  | 122.6  | 102.1  | 95.2   | 181.9  | 229.8  | 95.6   | 63.2   |
| 80°   | 38.0   | 41.0   | 64.9   | 84.2   | 99.9   | 70.5   | 51.7   | 93.1   | 102.1  | 43.6   | 32.1   |
| 82.5° | 6.9    | 11.6   | 38.0   | 44.4   | 51.2   | 45.7   | 27.0   | 48.3   | 50.0   | 17.5   | 11.1   |
| 85°   | 0.4    | 0.8    | 13.2   | 16.2   | 20.5   | 15.0   | 8.1    | 19.3   | 16.7   | 5.9    | 4.3    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.4    | 0.4    | 2.2    | 2.6    | 3.4    | 2.6    | 2.2    | 1.7    |
| 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):**

|       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1669.2 | 1669.2 | 1669.2 | 1669.2 | 1669.2 | 1669.2 | 1669.2 | 1669.2 | 1669.2 | 1669.2 |
| 2.5°  | 1642.4 | 1581.7 | 1522.7 | 1474.5 | 1446.3 | 1398.4 | 1366.8 | 1361.7 | 1348.5 | 1360.0 |
| 5°    | 1610.7 | 1502.2 | 1392.5 | 1294.2 | 1213.5 | 1109.3 | 1031.6 | 998.7  | 970.1  | 979.8  |
| 7.5°  | 1595.7 | 1424.4 | 1253.7 | 1085.8 | 913.2  | 746.6  | 622.8  | 571.0  | 531.8  | 537.3  |
| 10°   | 1575.7 | 1343.8 | 1075.9 | 819.7  | 588.6  | 424.1  | 338.8  | 307.1  | 289.6  | 290.0  |
| 12.5° | 1560.3 | 1247.2 | 869.6  | 555.7  | 358.3  | 270.8  | 244.4  | 236.7  | 231.5  | 232.0  |
| 15°   | 1552.6 | 1133.6 | 665.9  | 370.3  | 256.2  | 229.4  | 222.9  | 219.6  | 216.2  | 215.7  |
| 17.5° | 1539.8 | 1007.2 | 487.4  | 270.4  | 224.3  | 214.8  | 209.3  | 205.4  | 201.2  | 200.3  |
| 20°   | 1520.6 | 863.7  | 356.2  | 228.5  | 210.1  | 202.8  | 195.2  | 190.0  | 184.9  | 184.1  |
| 22.5° | 1485.1 | 712.1  | 273.8  | 211.5  | 199.9  | 191.8  | 182.3  | 176.4  | 171.3  | 170.5  |
| 25°   | 1419.3 | 569.8  | 230.6  | 200.8  | 191.0  | 181.1  | 170.9  | 162.8  | 158.1  | 157.2  |
| 27.5° | 1336.1 | 447.6  | 209.3  | 191.0  | 179.4  | 170.5  | 158.9  | 151.2  | 146.9  | 146.1  |
| 30°   | 1237.8 | 344.7  | 196.9  | 179.8  | 165.7  | 158.1  | 147.8  | 141.3  | 138.8  | 138.8  |
| 32.5° | 1131.9 | 275.5  | 191.8  | 168.7  | 153.8  | 145.2  | 137.1  | 134.6  | 133.7  | 133.2  |
| 35°   | 1032.4 | 239.2  | 189.2  | 159.8  | 143.1  | 135.0  | 131.5  | 132.0  | 133.7  | 133.7  |
| 37.5° | 943.9  | 227.7  | 188.0  | 153.3  | 133.7  | 126.4  | 128.5  | 132.4  | 130.7  | 130.7  |
| 40°   | 864.1  | 229.0  | 187.1  | 148.6  | 126.0  | 121.8  | 126.0  | 123.0  | 118.7  | 118.3  |
| 42.5° | 803.0  | 239.6  | 185.4  | 144.8  | 121.3  | 118.3  | 116.6  | 111.9  | 111.5  | 112.3  |
| 45°   | 758.6  | 249.0  | 184.9  | 143.1  | 116.1  | 110.6  | 108.4  | 103.8  | 112.3  | 114.5  |
| 47.5° | 706.0  | 249.0  | 184.9  | 137.1  | 107.6  | 105.5  | 102.1  | 97.0   | 105.5  | 107.6  |
| 50°   | 638.2  | 233.2  | 177.7  | 130.3  | 100.8  | 99.5   | 93.6   | 87.1   | 85.4   | 86.7   |
| 52.5° | 552.3  | 204.6  | 159.3  | 120.8  | 94.0   | 91.4   | 84.2   | 79.4   | 78.2   | 78.2   |
| 55°   | 454.5  | 171.3  | 134.6  | 107.2  | 86.7   | 82.0   | 76.9   | 74.7   | 73.5   | 72.6   |
| 57.5° | 369.5  | 140.5  | 108.0  | 95.2   | 79.8   | 73.9   | 72.2   | 69.6   | 67.4   | 66.2   |
| 60°   | 303.3  | 110.6  | 89.3   | 84.6   | 73.1   | 67.4   | 67.0   | 63.7   | 58.1   | 57.2   |
| 62.5° | 234.1  | 81.2   | 75.1   | 73.5   | 66.2   | 61.5   | 60.7   | 53.8   | 45.3   | 43.6   |
| 65°   | 165.3  | 63.2   | 60.7   | 64.5   | 58.9   | 54.6   | 52.6   | 42.3   | 33.3   | 32.1   |
| 67.5° | 116.1  | 53.0   | 47.9   | 56.4   | 51.2   | 45.7   | 44.4   | 35.9   | 27.8   | 27.0   |
| 70°   | 82.8   | 43.2   | 39.3   | 48.3   | 41.0   | 40.2   | 37.6   | 29.9   | 22.7   | 21.8   |
| 72.5° | 58.5   | 32.9   | 30.3   | 41.8   | 28.2   | 34.6   | 30.7   | 23.1   | 17.1   | 16.2   |
| 75°   | 43.2   | 23.5   | 21.3   | 24.4   | 20.5   | 26.0   | 21.8   | 15.4   | 10.7   | 10.2   |
| 77.5° | 31.6   | 15.0   | 12.8   | 12.0   | 12.0   | 16.2   | 12.0   | 6.5    | 4.7    | 4.3    |
| 80°   | 22.2   | 6.9    | 5.9    | 5.1    | 4.7    | 3.9    | 1.7    | 0.8    | 0.4    | 0.4    |
| 82.5° | 13.2   | 3.0    | 3.0    | 2.2    | 1.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 3.0    | 1.3    | 1.3    | 0.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.4    | 0.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)