

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: P961549

Luminaire Tested: **NVN-SB2A-830-U-SL2-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P961549  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB2A-830-U-SL2-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 6696.3 lumens  
Efficiency: N/A  
Efficacy: 116.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 57.3  
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

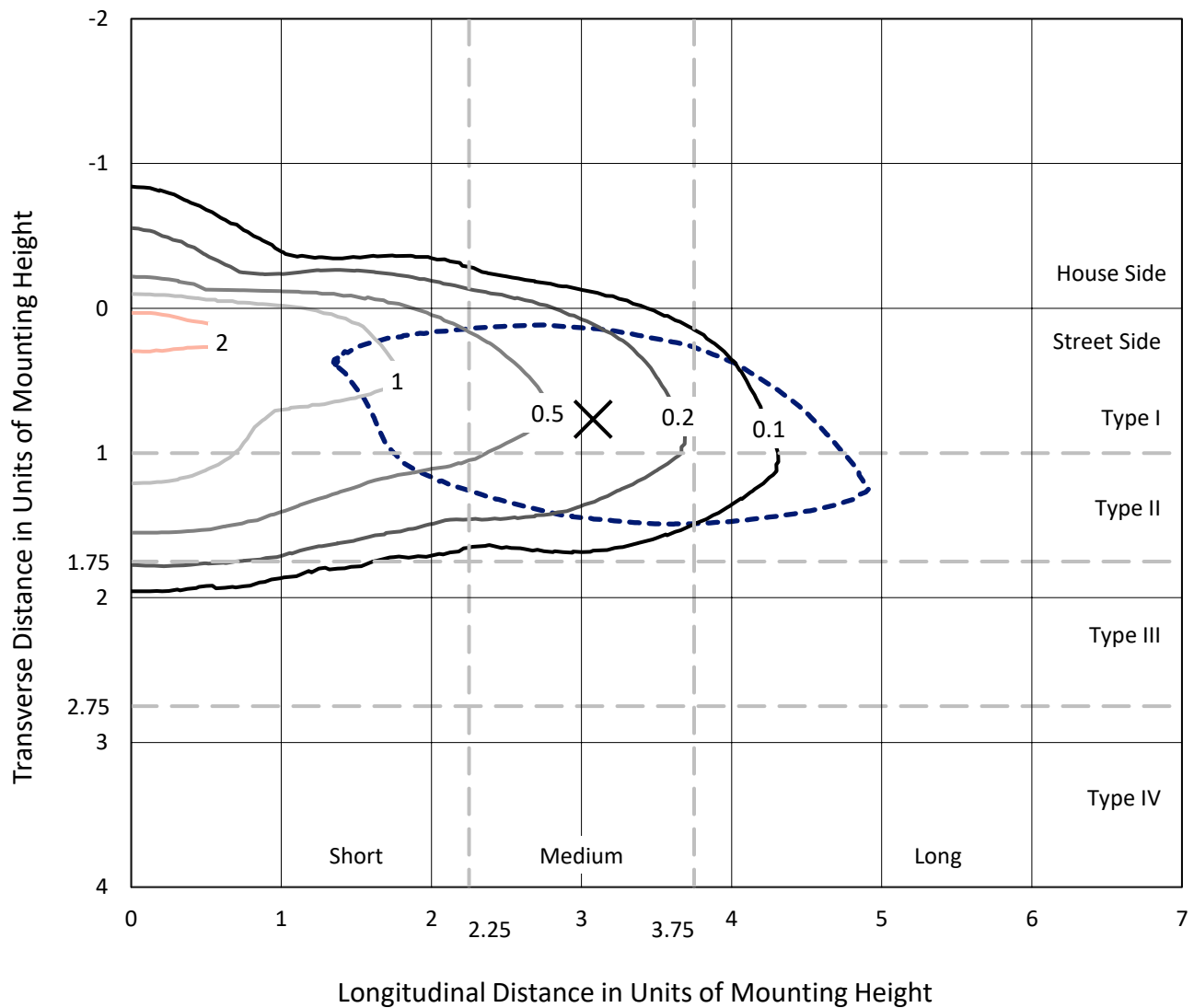


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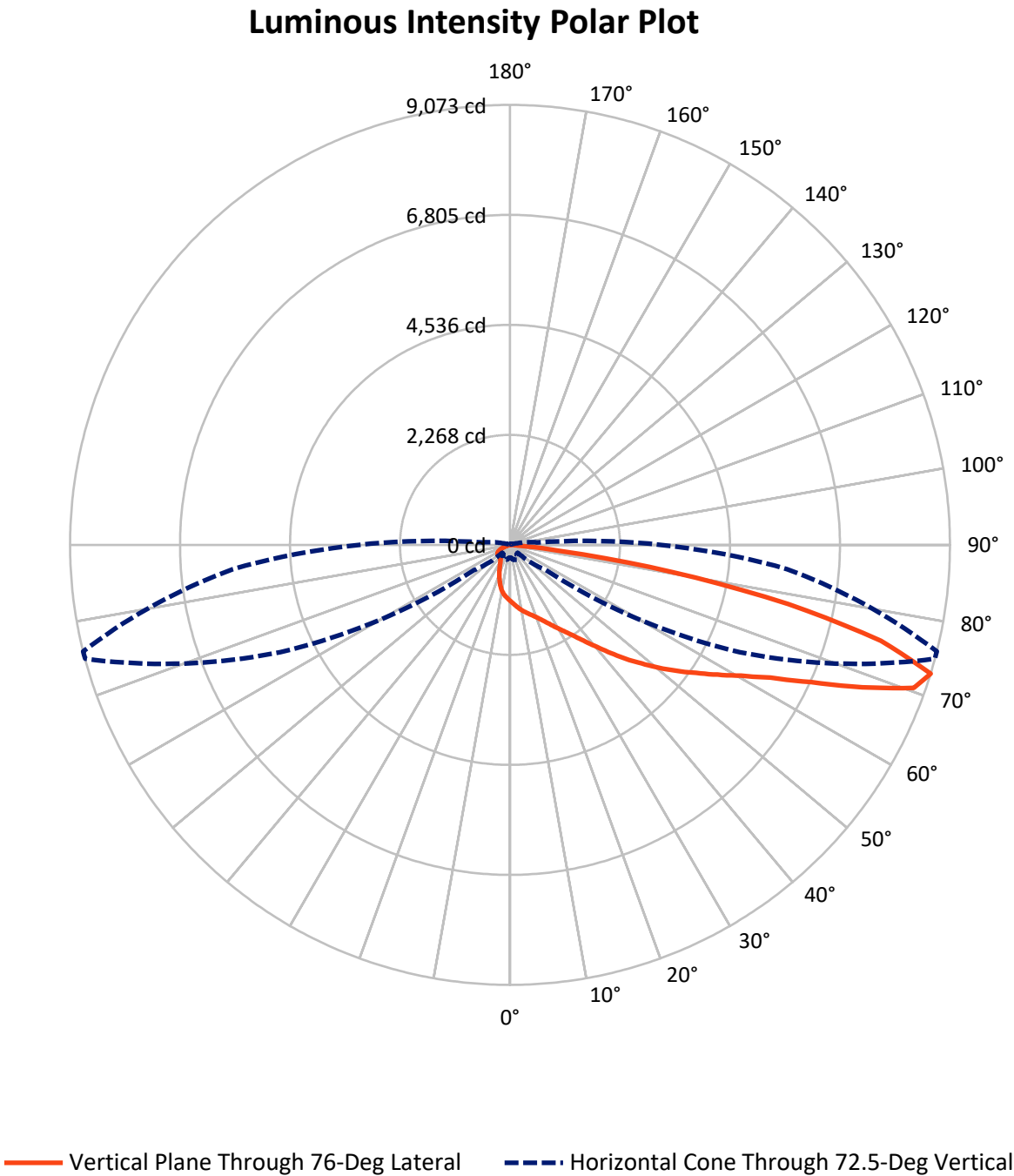
## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc  
 Type II - Medium - N/A

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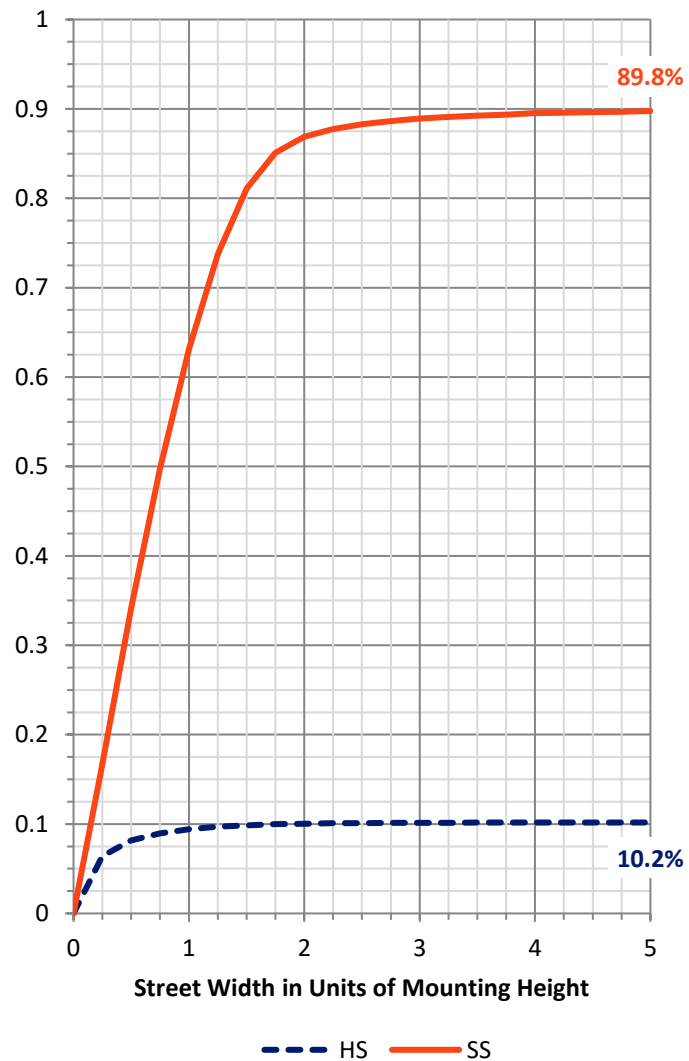
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 685.4    | 0.0    | 685.4  |
|                    | % Fixture | 10.2     | 0.0    | 10.2   |
| <b>Street Side</b> | Lumens    | 6011.0   | 0.0    | 6011.0 |
|                    | % Fixture | 89.8     | 0.0    | 89.8   |
| <b>Total</b>       | Lumens    | 6696.3   | 0.0    | 6696.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 105.3  | 1.6       |
| 10°-20°   | 282.2  | 4.2       |
| 20°-30°   | 446.6  | 6.7       |
| 30°-40°   | 691.0  | 10.3      |
| 40°-50°   | 1049.5 | 15.7      |
| 50°-60°   | 1446.9 | 21.6      |
| 60°-70°   | 1528.6 | 22.8      |
| 70°-80°   | 1048.6 | 15.7      |
| 80°-90°   | 97.6   | 1.5       |
| 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°    | 6696.3 | 100.0     |
| 0°-180°   | 6696.3 | 100.0     |

**Coefficient of Utilization**



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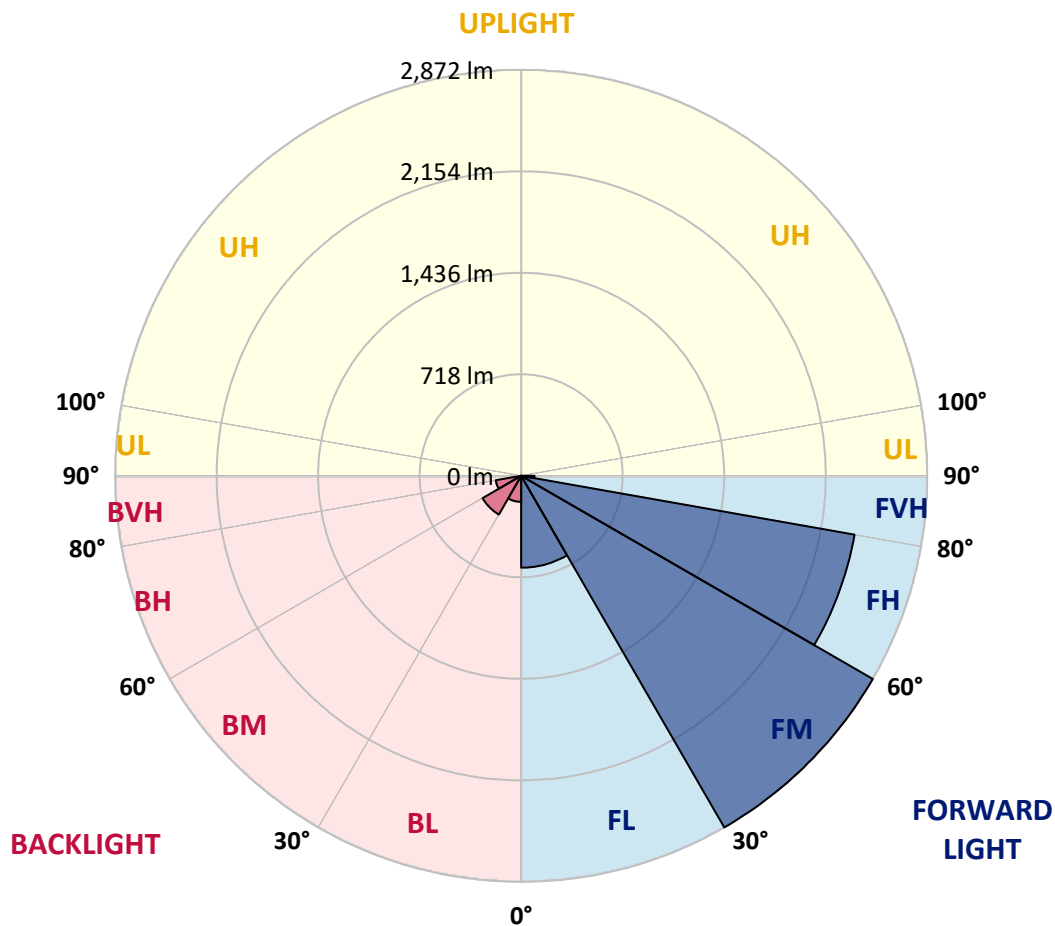
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 649.9  | 9.7       |                         |      |         |
| FM   | (30°-60°)   | 2871.9 | 42.9      |                         |      |         |
| FH   | (60°-80°)   | 2394.2 | 35.8      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 95.0   | 1.4       |                         |      | G1/100  |
| BL   | (0°-30°)    | 184.2  | 2.8       | B1/500                  |      |         |
| BM   | (30°-60°)   | 315.5  | 4.7       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 183.0  | 2.7       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 2.6    | 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-G2**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 76°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1157.2 | 1157.2 | 1157.2 | 1157.2 | 1157.2 | 1157.2 | 1157.2 | 1157.2 | 1157.2 | 1157.2 | 1157.2 |
| 2.5°  | 1345.3 | 1327.5 | 1331.0 | 1313.1 | 1304.8 | 1284.9 | 1264.0 | 1236.7 | 1206.2 | 1206.2 | 1176.7 |
| 5°    | 1486.9 | 1475.6 | 1475.6 | 1454.8 | 1438.7 | 1407.4 | 1370.0 | 1321.8 | 1264.4 | 1258.8 | 1202.8 |
| 7.5°  | 1573.8 | 1566.8 | 1571.1 | 1559.0 | 1545.9 | 1513.4 | 1469.0 | 1406.1 | 1324.8 | 1317.9 | 1233.6 |
| 10°   | 1590.7 | 1590.3 | 1602.4 | 1605.9 | 1614.6 | 1598.1 | 1558.5 | 1486.0 | 1384.4 | 1374.4 | 1260.1 |
| 12.5° | 1525.1 | 1516.9 | 1546.8 | 1582.0 | 1631.5 | 1653.6 | 1633.2 | 1559.0 | 1438.7 | 1424.7 | 1284.9 |
| 15°   | 1417.4 | 1419.1 | 1447.8 | 1502.0 | 1584.6 | 1663.7 | 1690.1 | 1630.3 | 1493.8 | 1477.3 | 1308.3 |
| 17.5° | 1355.7 | 1349.2 | 1373.9 | 1422.6 | 1513.8 | 1625.4 | 1716.7 | 1696.7 | 1552.5 | 1533.8 | 1332.2 |
| 20°   | 1348.3 | 1347.9 | 1353.5 | 1375.7 | 1445.1 | 1570.7 | 1713.6 | 1761.4 | 1621.6 | 1599.8 | 1366.5 |
| 22.5° | 1399.5 | 1398.7 | 1393.9 | 1389.6 | 1408.7 | 1517.3 | 1700.6 | 1823.1 | 1704.1 | 1680.6 | 1415.2 |
| 25°   | 1478.2 | 1476.9 | 1469.5 | 1443.0 | 1424.3 | 1488.6 | 1688.4 | 1880.5 | 1801.8 | 1775.7 | 1474.3 |
| 27.5° | 1574.2 | 1573.3 | 1559.8 | 1519.9 | 1471.7 | 1491.2 | 1682.3 | 1939.5 | 1914.7 | 1889.1 | 1542.5 |
| 30°   | 1691.9 | 1690.1 | 1662.3 | 1605.9 | 1542.9 | 1532.5 | 1690.6 | 2005.9 | 2032.5 | 2012.9 | 1621.1 |
| 32.5° | 1839.6 | 1834.9 | 1798.4 | 1713.2 | 1625.0 | 1587.6 | 1706.2 | 2074.2 | 2171.9 | 2153.6 | 1726.2 |
| 35°   | 1953.9 | 1946.5 | 1925.2 | 1850.0 | 1720.2 | 1655.4 | 1742.7 | 2155.0 | 2339.6 | 2323.5 | 1860.5 |
| 37.5° | 2052.0 | 2044.6 | 2027.2 | 1965.5 | 1856.6 | 1741.9 | 1801.3 | 2262.7 | 2537.6 | 2529.8 | 2024.2 |
| 40°   | 2158.0 | 2145.8 | 2137.5 | 2071.5 | 1972.9 | 1866.5 | 1885.2 | 2388.7 | 2765.7 | 2766.6 | 2221.0 |
| 42.5° | 2239.6 | 2234.9 | 2235.7 | 2184.9 | 2085.5 | 2014.2 | 1996.4 | 2530.7 | 3038.9 | 3047.1 | 2457.7 |
| 45°   | 2309.6 | 2305.6 | 2321.7 | 2286.2 | 2198.8 | 2111.1 | 2126.7 | 2691.4 | 3337.8 | 3354.7 | 2722.7 |
| 47.5° | 2363.4 | 2367.8 | 2390.8 | 2367.8 | 2316.5 | 2179.3 | 2242.3 | 2864.8 | 3651.8 | 3654.0 | 2996.4 |
| 50°   | 2417.4 | 2419.1 | 2457.2 | 2446.0 | 2425.1 | 2265.8 | 2348.7 | 3058.5 | 3982.8 | 3986.7 | 3252.2 |
| 52.5° | 2434.3 | 2431.6 | 2492.5 | 2520.3 | 2521.1 | 2372.6 | 2486.3 | 3269.5 | 4307.3 | 4319.9 | 3515.4 |
| 55°   | 2347.4 | 2354.7 | 2452.9 | 2565.9 | 2610.6 | 2520.3 | 2672.3 | 3536.7 | 4653.1 | 4658.3 | 3776.0 |
| 57.5° | 1922.6 | 1963.4 | 2180.6 | 2442.5 | 2668.4 | 2731.8 | 2939.4 | 3849.0 | 5052.2 | 5047.5 | 4040.1 |
| 60°   | 1166.8 | 1215.3 | 1475.2 | 2048.6 | 2479.9 | 2944.2 | 3333.0 | 4332.9 | 5488.4 | 5474.9 | 4307.3 |
| 62.5° | 652.4  | 667.2  | 750.2  | 1226.2 | 1886.1 | 2809.1 | 3717.4 | 4954.5 | 6073.9 | 6028.3 | 4570.1 |
| 65°   | 480.8  | 485.6  | 505.2  | 600.8  | 927.0  | 2160.6 | 3633.1 | 5697.8 | 6896.6 | 6815.4 | 4885.0 |
| 67.5° | 417.9  | 422.6  | 441.8  | 454.8  | 414.0  | 1135.0 | 2993.3 | 6109.9 | 7941.3 | 7834.9 | 5311.1 |
| 70°   | 351.9  | 354.4  | 385.3  | 394.0  | 296.2  | 431.7  | 1923.0 | 5982.7 | 8908.3 | 8832.2 | 5768.5 |
| 72.5° | 262.4  | 272.8  | 317.5  | 338.4  | 237.6  | 229.4  | 905.3  | 5230.8 | 9072.0 | 9072.9 | 5737.7 |
| 75°   | 178.1  | 187.7  | 238.9  | 278.4  | 183.3  | 160.7  | 365.3  | 3906.0 | 7899.6 | 7899.6 | 5029.7 |
| 77.5° | 121.7  | 129.5  | 166.4  | 218.5  | 139.0  | 110.3  | 189.4  | 2479.0 | 5667.3 | 5866.7 | 3584.9 |
| 80°   | 53.8   | 58.6   | 107.3  | 158.6  | 105.6  | 71.2   | 107.3  | 1357.4 | 3427.3 | 3385.1 | 1405.2 |
| 82.5° | 26.5   | 30.4   | 68.7   | 99.0   | 68.2   | 43.9   | 56.5   | 645.4  | 1110.7 | 1055.5 | 219.4  |
| 85°   | 5.2    | 7.0    | 36.9   | 42.1   | 31.7   | 19.6   | 21.3   | 198.5  | 133.8  | 152.9  | 46.4   |
| 87.5° | 0.0    | 0.0    | 11.3   | 7.8    | 3.5    | 4.3    | 4.3    | 17.8   | 10.5   | 12.2   | 12.2   |
| 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°    | 1157.2 | 1157.2 | 1157.2 | 1157.2 | 1157.2 | 1157.2 | 1157.2 | 1157.2 | 1157.2 | 1157.2 | 1157.2 |
| 2.5°  | 1161.1 | 1145.0 | 1109.9 | 1075.1 | 1039.5 | 1006.9 | 984.3  | 961.8  | 947.8  | 941.8  | 942.6  |
| 5°    | 1170.2 | 1137.6 | 1063.7 | 986.5  | 910.0  | 835.3  | 779.3  | 726.7  | 710.2  | 682.9  | 684.6  |
| 7.5°  | 1184.6 | 1131.6 | 1015.2 | 884.8  | 760.6  | 651.2  | 572.1  | 509.1  | 483.9  | 459.6  | 459.1  |
| 10°   | 1194.1 | 1120.2 | 950.9  | 776.6  | 608.5  | 485.6  | 410.1  | 364.5  | 348.0  | 333.1  | 332.7  |
| 12.5° | 1198.0 | 1099.4 | 877.0  | 655.5  | 473.4  | 370.1  | 324.9  | 303.6  | 298.0  | 292.7  | 292.7  |
| 15°   | 1201.5 | 1079.0 | 794.5  | 538.6  | 374.0  | 309.8  | 291.9  | 285.0  | 281.1  | 277.6  | 277.6  |
| 17.5° | 1204.6 | 1053.0 | 700.2  | 437.9  | 315.8  | 285.4  | 276.8  | 269.3  | 266.3  | 262.4  | 262.4  |
| 20°   | 1214.9 | 1027.8 | 615.9  | 361.4  | 284.1  | 268.0  | 258.5  | 250.6  | 248.0  | 245.4  | 245.9  |
| 22.5° | 1234.5 | 1007.4 | 534.3  | 309.8  | 265.0  | 250.2  | 238.0  | 229.4  | 227.7  | 225.9  | 224.6  |
| 25°   | 1258.0 | 982.2  | 457.4  | 276.2  | 246.3  | 229.8  | 216.3  | 208.9  | 207.2  | 207.7  | 206.7  |
| 27.5° | 1287.9 | 954.4  | 391.3  | 255.0  | 229.8  | 210.6  | 195.5  | 189.8  | 190.6  | 192.4  | 191.6  |
| 30°   | 1320.9 | 928.6  | 339.7  | 240.3  | 215.0  | 193.7  | 178.6  | 174.7  | 177.6  | 180.3  | 179.4  |
| 32.5° | 1370.0 | 906.1  | 303.6  | 228.5  | 202.0  | 179.8  | 167.7  | 162.9  | 166.4  | 169.8  | 169.0  |
| 35°   | 1436.9 | 894.8  | 283.2  | 218.5  | 190.6  | 169.0  | 156.8  | 153.3  | 156.8  | 157.6  | 157.2  |
| 37.5° | 1519.0 | 893.9  | 274.5  | 210.2  | 180.3  | 159.9  | 146.4  | 145.0  | 147.7  | 148.1  | 147.3  |
| 40°   | 1625.0 | 899.6  | 268.0  | 204.2  | 169.4  | 149.4  | 136.8  | 135.5  | 136.4  | 139.4  | 139.0  |
| 42.5° | 1759.2 | 923.0  | 258.9  | 196.4  | 157.6  | 139.0  | 129.0  | 126.0  | 125.6  | 129.0  | 128.5  |
| 45°   | 1927.8 | 974.8  | 246.7  | 183.8  | 147.3  | 130.3  | 120.3  | 116.8  | 115.5  | 116.4  | 117.7  |
| 47.5° | 2111.5 | 1038.1 | 234.5  | 172.0  | 139.9  | 123.4  | 113.4  | 109.1  | 106.9  | 106.9  | 106.9  |
| 50°   | 2289.6 | 1109.9 | 226.3  | 159.9  | 134.7  | 116.8  | 106.0  | 101.7  | 98.2   | 97.3   | 96.9   |
| 52.5° | 2465.9 | 1180.2 | 219.8  | 147.7  | 128.5  | 108.5  | 99.0   | 94.3   | 90.3   | 88.7   | 87.7   |
| 55°   | 2626.7 | 1247.1 | 208.5  | 135.9  | 120.7  | 99.9   | 92.0   | 87.3   | 82.5   | 79.5   | 78.2   |
| 57.5° | 2780.9 | 1302.7 | 187.7  | 123.8  | 108.5  | 91.6   | 84.7   | 79.5   | 73.8   | 69.9   | 68.2   |
| 60°   | 2921.1 | 1331.4 | 161.5  | 110.8  | 96.5   | 82.9   | 76.5   | 71.6   | 64.3   | 57.8   | 56.1   |
| 62.5° | 3028.1 | 1320.1 | 133.4  | 96.0   | 83.8   | 75.1   | 66.9   | 62.1   | 53.4   | 45.6   | 42.5   |
| 65°   | 3137.5 | 1258.4 | 106.4  | 80.4   | 73.4   | 64.7   | 56.1   | 51.2   | 41.3   | 33.0   | 30.9   |
| 67.5° | 3279.6 | 1126.8 | 83.8   | 66.9   | 63.4   | 51.2   | 43.9   | 40.8   | 33.9   | 26.0   | 24.3   |
| 70°   | 3370.8 | 875.2  | 65.2   | 54.3   | 52.2   | 37.3   | 33.9   | 33.4   | 27.0   | 20.0   | 17.8   |
| 72.5° | 3120.6 | 573.8  | 49.9   | 41.3   | 37.3   | 24.3   | 26.0   | 26.0   | 19.6   | 13.4   | 11.7   |
| 75°   | 2604.9 | 335.8  | 36.1   | 29.5   | 21.3   | 15.7   | 17.8   | 17.8   | 12.2   | 6.6    | 5.2    |
| 77.5° | 1860.5 | 179.0  | 23.9   | 18.2   | 10.9   | 7.0    | 9.5    | 9.1    | 3.9    | 0.4    | 0.0    |
| 80°   | 711.6  | 61.7   | 11.3   | 7.4    | 3.1    | 1.3    | 0.8    | 0.4    | 0.4    | 0.0    | 0.0    |
| 82.5° | 108.5  | 16.1   | 2.2    | 1.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 19.6   | 2.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 4.3    | 0.0    | 0.0    | 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    | 0.0    |

(END OF REPORT)