

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: P963669

Luminaire Tested: **NVN-SB3A-830-U-T2R-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P963669  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB3A-830-U-T2R-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 10495 lumens  
Efficiency: N/A  
Efficacy: 123.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2  
  
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

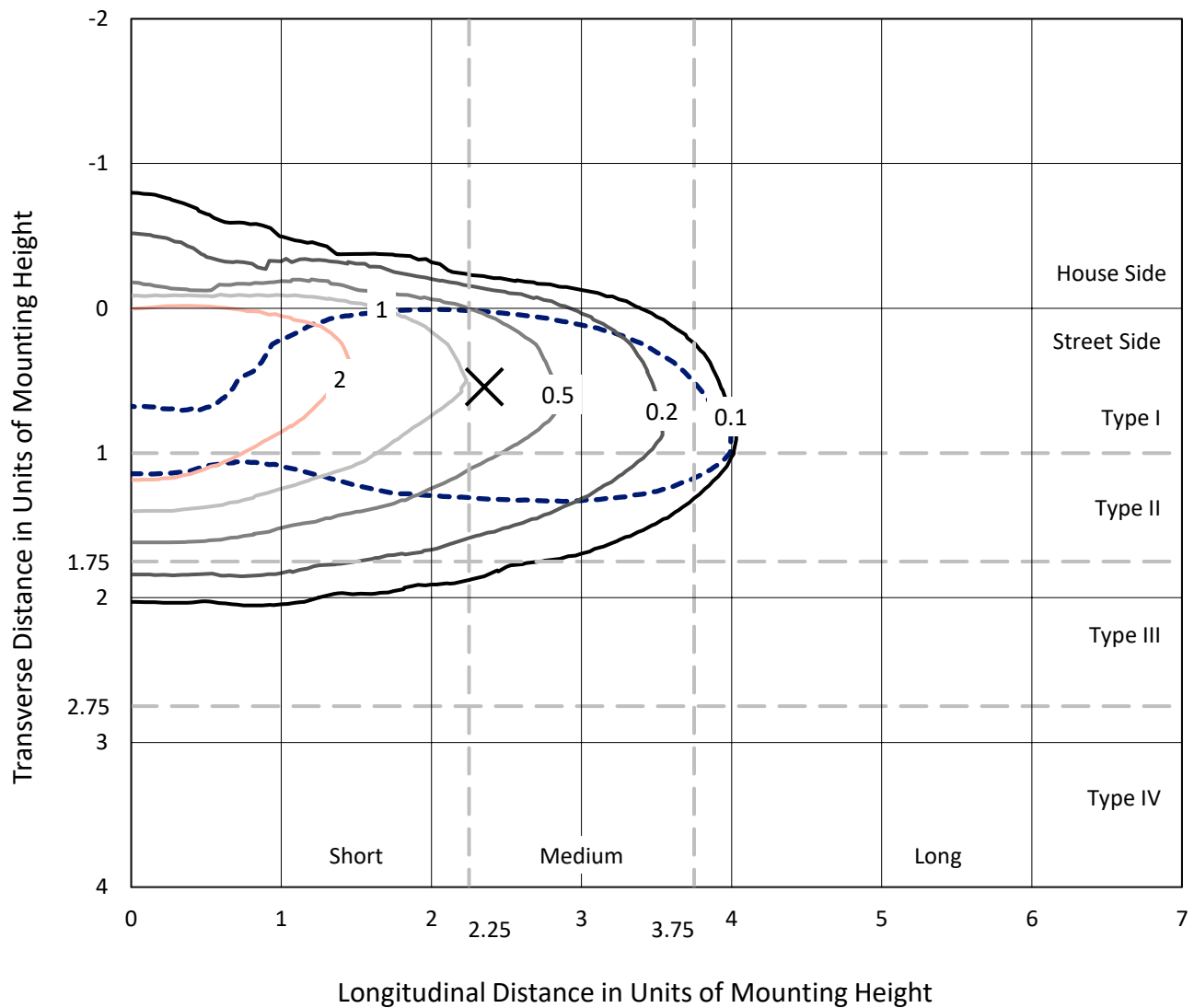


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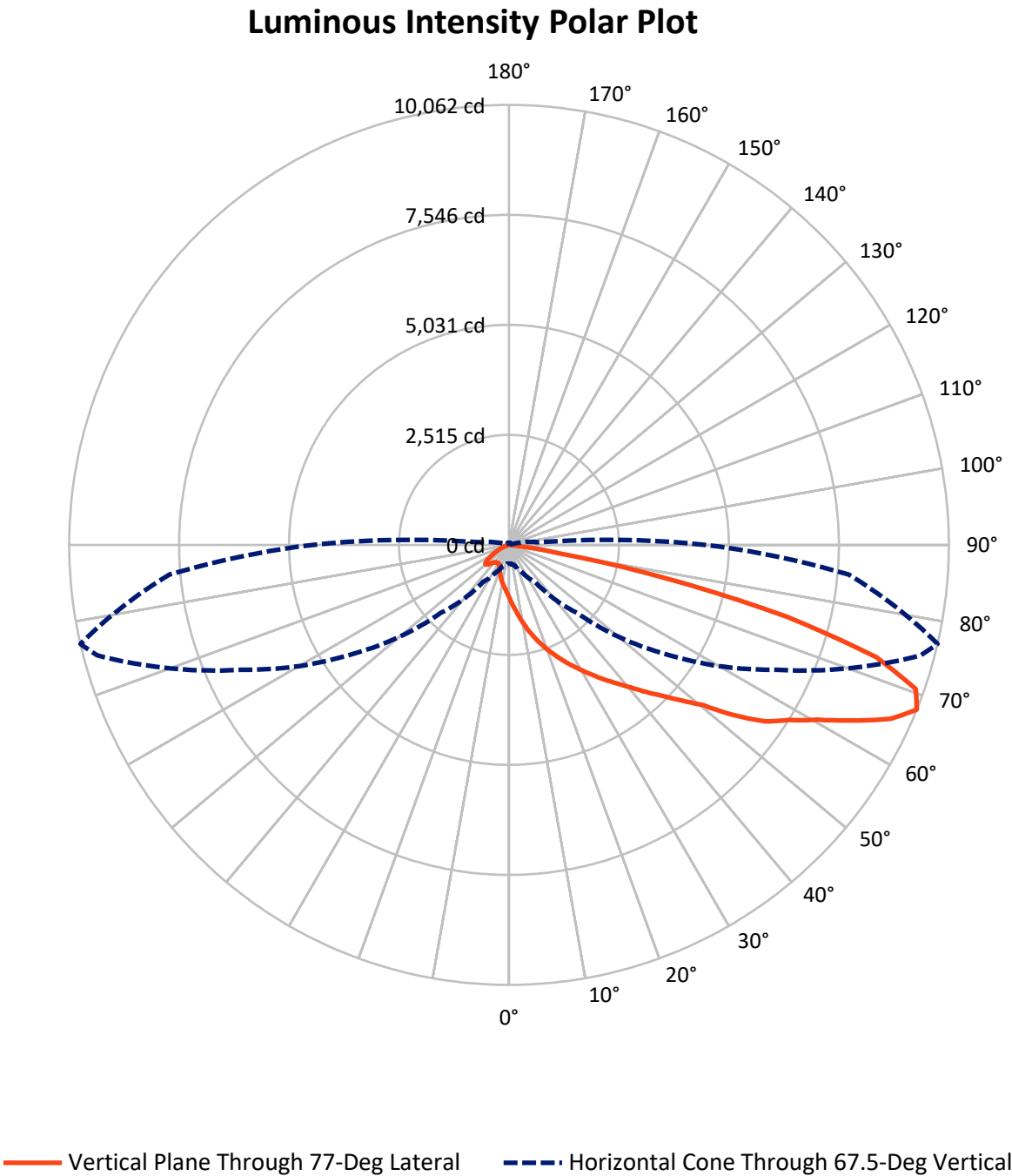
## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc  
Type II - Medium - N/A

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 772.1    | 0.0    | 772.1   |
|                    | % Fixture | 7.4      | 0.0    | 7.4     |
| <b>Street Side</b> | Lumens    | 9722.8   | 0.0    | 9722.8  |
|                    | % Fixture | 92.6     | 0.0    | 92.6    |
| <b>Total</b>       | Lumens    | 10495.0  | 0.0    | 10495.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 123.5   | 1.2       |
| 10°-20°   | 432.6   | 4.1       |
| 20°-30°   | 834.7   | 8.0       |
| 30°-40°   | 1449.1  | 13.8      |
| 40°-50°   | 2104.1  | 20.0      |
| 50°-60°   | 2416.3  | 23.0      |
| 60°-70°   | 2097.8  | 20.0      |
| 70°-80°   | 988.1   | 9.4       |
| 80°-90°   | 48.9    | 0.5       |
| 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°    | 10495.0 | 100.0     |
| 0°-180°   | 10495.0 | 100.0     |

**Coefficient of Utilization**



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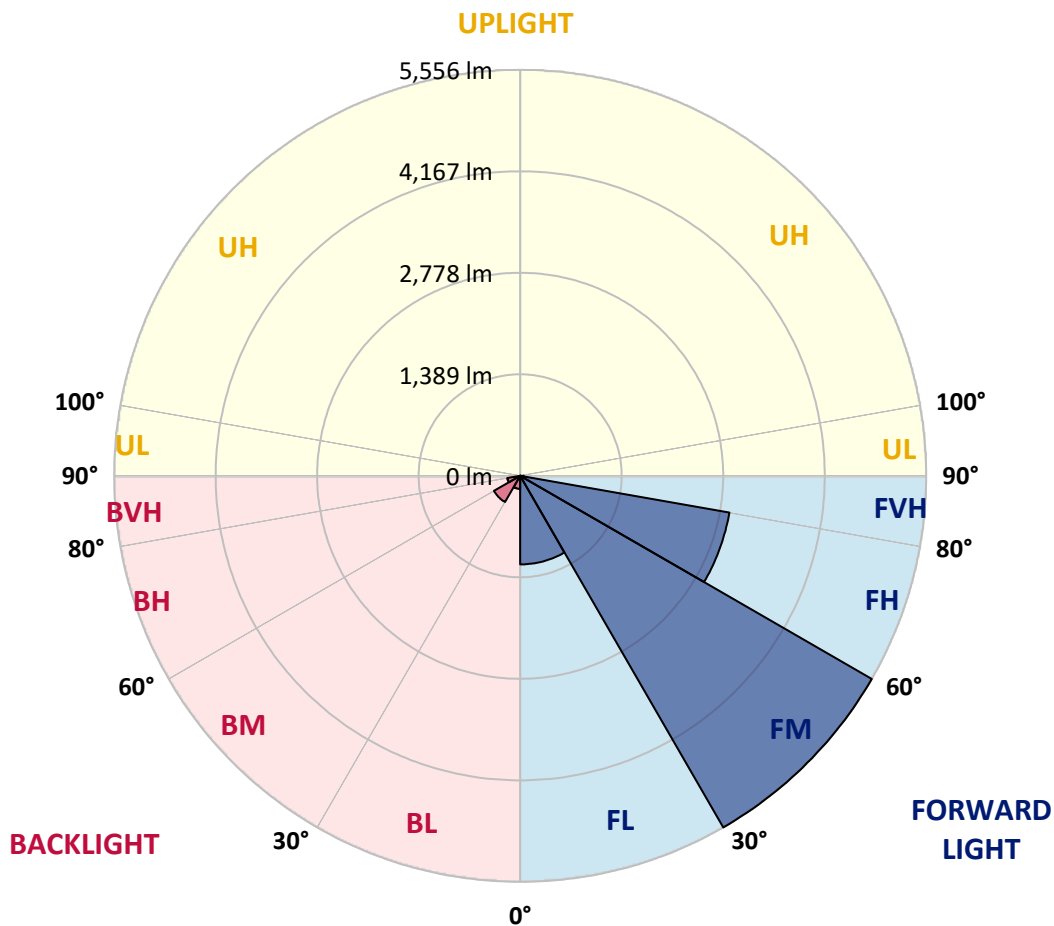
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1212.1 | 11.5      |                         |      |         |
| FM   | (30°-60°)   | 5555.7 | 52.9      |                         |      |         |
| FH   | (60°-80°)   | 2907.1 | 27.7      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 48.0   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 178.8  | 1.7       | B1/500                  |      |         |
| BM   | (30°-60°)   | 413.7  | 3.9       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 178.8  | 1.7       | B1/500                  |      | G1/500  |
| 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-G2**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 77°     | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| 0°    | 1210.2 | 1210.2 | 1210.2 | 1210.2 | 1210.2 | 1210.2 | 1210.2 | 1210.2 | 1210.2 | 1210.2  | 1210.2 |
| 2.5°  | 1675.6 | 1686.0 | 1671.0 | 1642.4 | 1599.3 | 1571.2 | 1502.9 | 1438.3 | 1366.6 | 1343.8  | 1272.1 |
| 5°    | 2042.4 | 2051.5 | 2034.6 | 2003.4 | 1946.0 | 1891.2 | 1801.3 | 1666.4 | 1526.3 | 1481.3  | 1354.2 |
| 7.5°  | 2314.2 | 2319.5 | 2312.9 | 2284.2 | 2229.5 | 2167.6 | 2067.2 | 1907.5 | 1699.7 | 1650.1  | 1455.3 |
| 10°   | 2509.7 | 2526.7 | 2524.7 | 2513.6 | 2477.1 | 2427.0 | 2320.1 | 2138.3 | 1893.9 | 1830.0  | 1569.3 |
| 12.5° | 2639.4 | 2658.3 | 2669.4 | 2694.2 | 2692.2 | 2660.3 | 2566.4 | 2374.2 | 2087.4 | 2012.5  | 1697.7 |
| 15°   | 2677.2 | 2697.4 | 2739.8 | 2797.1 | 2848.0 | 2864.3 | 2798.5 | 2605.5 | 2300.5 | 2204.8  | 1829.3 |
| 17.5° | 2655.7 | 2687.0 | 2737.9 | 2828.4 | 2939.9 | 3013.5 | 3006.3 | 2829.1 | 2494.1 | 2384.6  | 1958.4 |
| 20°   | 2703.3 | 2733.3 | 2773.0 | 2849.3 | 2979.0 | 3112.5 | 3166.0 | 3042.8 | 2686.3 | 2571.6  | 2094.0 |
| 22.5° | 2966.6 | 2961.3 | 2965.3 | 2977.6 | 3055.2 | 3187.5 | 3297.6 | 3237.1 | 2876.7 | 2759.3  | 2237.4 |
| 25°   | 3383.6 | 3360.3 | 3320.5 | 3253.4 | 3233.8 | 3297.6 | 3412.3 | 3409.0 | 3077.4 | 2951.6  | 2383.9 |
| 27.5° | 3862.0 | 3858.1 | 3764.9 | 3603.3 | 3512.1 | 3487.3 | 3542.1 | 3576.5 | 3276.1 | 3141.9  | 2531.2 |
| 30°   | 4320.2 | 4330.6 | 4204.9 | 4025.0 | 3857.5 | 3760.3 | 3710.8 | 3735.6 | 3478.1 | 3347.1  | 2683.0 |
| 32.5° | 4719.0 | 4730.1 | 4593.2 | 4382.8 | 4175.5 | 4058.2 | 3953.9 | 3892.6 | 3698.4 | 3555.7  | 2849.9 |
| 35°   | 5055.9 | 5067.1 | 4910.0 | 4677.3 | 4456.4 | 4350.2 | 4232.2 | 4064.7 | 3920.0 | 3787.1  | 3035.6 |
| 37.5° | 5357.1 | 5353.8 | 5143.2 | 4908.7 | 4691.6 | 4607.6 | 4545.7 | 4276.5 | 4148.2 | 4019.7  | 3241.6 |
| 40°   | 5535.0 | 5548.6 | 5368.7 | 5110.0 | 4899.6 | 4838.3 | 4834.4 | 4539.1 | 4411.4 | 4287.0  | 3467.1 |
| 42.5° | 5587.1 | 5611.3 | 5480.9 | 5268.4 | 5077.4 | 5011.0 | 5113.3 | 4823.3 | 4717.8 | 4596.5  | 3721.9 |
| 45°   | 5493.3 | 5516.8 | 5457.4 | 5310.1 | 5198.7 | 5155.6 | 5353.2 | 5117.8 | 5044.8 | 4924.9  | 4009.3 |
| 47.5° | 5219.5 | 5248.8 | 5263.2 | 5231.9 | 5230.6 | 5274.2 | 5568.2 | 5428.1 | 5433.3 | 5310.8  | 4342.3 |
| 50°   | 4689.7 | 4739.2 | 4870.9 | 4981.7 | 5153.1 | 5368.1 | 5777.4 | 5764.4 | 5871.3 | 5765.6  | 4776.4 |
| 52.5° | 3726.5 | 3796.9 | 4250.5 | 4553.5 | 4938.7 | 5350.5 | 6007.4 | 6304.0 | 6639.6 | 6485.2  | 5388.3 |
| 55°   | 2994.6 | 2994.6 | 3363.4 | 3930.5 | 4520.2 | 5234.6 | 6107.9 | 6654.6 | 7162.9 | 7126.4  | 5819.1 |
| 57.5° | 2441.3 | 2470.7 | 2705.9 | 3207.0 | 3914.8 | 4958.2 | 6169.8 | 6874.9 | 7584.6 | 7557.8  | 6240.1 |
| 60°   | 1506.7 | 1570.0 | 2014.4 | 2509.1 | 3226.0 | 4466.1 | 6130.6 | 7097.8 | 8096.2 | 8117.7  | 6747.2 |
| 62.5° | 848.5  | 872.0  | 1070.1 | 1805.2 | 2508.4 | 3804.7 | 5831.5 | 7222.3 | 8750.5 | 8841.8  | 7269.8 |
| 65°   | 585.9  | 597.6  | 673.8  | 1123.5 | 1738.8 | 3029.2 | 5246.9 | 7144.7 | 9406.1 | 9590.5  | 7713.0 |
| 67.5° | 425.6  | 431.4  | 479.0  | 686.2  | 1031.7 | 2196.3 | 4330.6 | 6753.6 | 9753.5 | 10061.7 | 7797.7 |
| 70°   | 327.2  | 331.1  | 365.6  | 451.0  | 609.4  | 1355.6 | 3145.1 | 5976.2 | 9502.0 | 9870.1  | 7363.7 |
| 72.5° | 265.9  | 269.8  | 296.5  | 333.6  | 404.1  | 801.7  | 1906.3 | 4853.3 | 8391.4 | 8789.0  | 6268.8 |
| 75°   | 224.2  | 229.4  | 253.5  | 277.7  | 316.7  | 514.9  | 894.1  | 3379.7 | 6310.5 | 6571.2  | 4359.3 |
| 77.5° | 124.4  | 114.7  | 205.9  | 230.0  | 267.2  | 325.8  | 418.4  | 1989.0 | 3534.2 | 3606.6  | 1934.3 |
| 80°   | 77.6   | 80.2   | 163.6  | 185.1  | 205.3  | 164.2  | 191.6  | 765.8  | 1225.2 | 1164.0  | 374.7  |
| 82.5° | 4.6    | 10.5   | 125.8  | 133.6  | 140.7  | 70.4   | 72.4   | 260.0  | 295.2  | 271.1   | 66.5   |
| 85°   | 0.0    | 0.0    | 57.4   | 46.2   | 48.9   | 20.2   | 20.8   | 60.6   | 39.8   | 43.0    | 13.0   |
| 87.5° | 0.0    | 0.0    | 0.0    | 1.3    | 0.0    | 1.9    | 3.9    | 5.2    | 1.9    | 2.6     | 4.6    |
| 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°    | 1210.2 | 1210.2 | 1210.2 | 1210.2 | 1210.2 | 1210.2 | 1210.2 | 1210.2 | 1210.2 | 1210.2 | 1210.2 |
| 2.5°  | 1226.5 | 1180.9 | 1088.3 | 997.7  | 924.1  | 855.7  | 806.8  | 760.6  | 737.1  | 735.7  | 734.5  |
| 5°    | 1263.6 | 1167.9 | 982.8  | 819.2  | 687.6  | 582.0  | 513.5  | 464.6  | 439.9  | 431.4  | 430.1  |
| 7.5°  | 1315.8 | 1171.8 | 890.2  | 662.8  | 507.7  | 417.1  | 378.0  | 362.3  | 357.1  | 351.3  | 349.9  |
| 10°   | 1381.6 | 1180.9 | 807.5  | 533.7  | 400.2  | 354.5  | 338.9  | 332.4  | 328.5  | 324.5  | 323.3  |
| 12.5° | 1455.3 | 1189.4 | 725.4  | 443.2  | 351.9  | 328.5  | 317.3  | 309.5  | 304.3  | 299.8  | 298.5  |
| 15°   | 1526.9 | 1194.5 | 640.0  | 380.0  | 327.2  | 308.2  | 296.5  | 288.0  | 280.8  | 275.6  | 275.0  |
| 17.5° | 1598.0 | 1201.7 | 559.9  | 342.1  | 307.0  | 288.0  | 276.3  | 265.9  | 260.0  | 254.2  | 253.5  |
| 20°   | 1676.9 | 1200.5 | 484.2  | 315.4  | 286.8  | 267.8  | 255.4  | 245.7  | 239.8  | 233.3  | 232.7  |
| 22.5° | 1749.9 | 1193.9 | 417.8  | 292.6  | 265.9  | 247.6  | 234.0  | 224.2  | 218.3  | 213.1  | 212.5  |
| 25°   | 1833.9 | 1188.7 | 362.3  | 271.7  | 246.3  | 228.1  | 213.1  | 204.0  | 197.5  | 192.9  | 192.3  |
| 27.5° | 1914.7 | 1180.9 | 322.0  | 252.9  | 227.4  | 209.8  | 195.5  | 185.1  | 179.2  | 176.0  | 176.0  |
| 30°   | 1994.2 | 1179.0 | 307.0  | 234.6  | 210.5  | 192.9  | 178.6  | 168.8  | 164.2  | 163.0  | 162.3  |
| 32.5° | 2090.1 | 1184.2 | 313.4  | 228.1  | 194.9  | 177.2  | 163.6  | 156.4  | 151.8  | 151.8  | 151.8  |
| 35°   | 2192.4 | 1182.8 | 323.3  | 234.0  | 184.4  | 161.6  | 151.2  | 146.7  | 142.1  | 142.1  | 142.1  |
| 37.5° | 2320.7 | 1184.8 | 331.1  | 243.7  | 180.5  | 148.6  | 142.7  | 136.8  | 134.3  | 134.3  | 134.3  |
| 40°   | 2512.4 | 1249.4 | 327.2  | 252.3  | 179.2  | 139.5  | 127.7  | 125.8  | 123.8  | 123.8  | 123.8  |
| 42.5° | 2747.0 | 1389.5 | 332.4  | 252.9  | 178.6  | 132.9  | 117.3  | 121.3  | 116.6  | 116.0  | 115.3  |
| 45°   | 3003.8 | 1542.6 | 365.6  | 239.1  | 177.9  | 129.7  | 112.1  | 116.6  | 109.5  | 109.5  | 109.5  |
| 47.5° | 3258.6 | 1694.4 | 399.5  | 219.7  | 176.0  | 129.0  | 107.5  | 105.0  | 103.0  | 103.6  | 103.6  |
| 50°   | 3609.8 | 1818.2 | 412.6  | 192.9  | 171.4  | 127.7  | 99.0   | 99.7   | 98.4   | 99.7   | 99.7   |
| 52.5° | 3992.4 | 1844.4 | 396.9  | 163.0  | 158.4  | 123.8  | 93.2   | 95.8   | 95.1   | 96.5   | 96.5   |
| 55°   | 4230.9 | 1816.3 | 327.8  | 135.5  | 138.2  | 108.1  | 87.3   | 92.6   | 92.6   | 92.6   | 92.6   |
| 57.5° | 4477.2 | 1697.1 | 232.7  | 110.2  | 114.7  | 88.7   | 82.1   | 89.3   | 88.7   | 87.9   | 87.9   |
| 60°   | 4654.5 | 1504.2 | 153.1  | 90.6   | 91.2   | 73.0   | 76.3   | 84.0   | 83.4   | 80.2   | 80.2   |
| 62.5° | 4786.9 | 1291.0 | 98.4   | 76.9   | 69.7   | 65.8   | 69.7   | 76.3   | 73.6   | 66.5   | 65.2   |
| 65°   | 4771.8 | 995.8  | 75.6   | 65.8   | 57.4   | 57.4   | 60.6   | 66.5   | 58.6   | 46.9   | 45.6   |
| 67.5° | 4493.5 | 673.8  | 62.5   | 55.4   | 48.3   | 47.6   | 50.2   | 55.4   | 50.2   | 39.8   | 38.4   |
| 70°   | 3996.3 | 440.5  | 50.2   | 43.0   | 38.4   | 35.2   | 40.4   | 47.6   | 42.3   | 32.0   | 30.6   |
| 72.5° | 3243.5 | 268.5  | 37.8   | 31.3   | 28.0   | 22.9   | 32.0   | 39.1   | 33.9   | 23.5   | 22.1   |
| 75°   | 2098.5 | 136.8  | 26.0   | 20.2   | 15.0   | 13.7   | 23.5   | 29.3   | 23.5   | 14.3   | 12.4   |
| 77.5° | 802.9  | 57.4   | 14.3   | 9.1    | 7.8    | 6.6    | 13.0   | 17.6   | 9.7    | 3.3    | 2.6    |
| 80°   | 154.5  | 24.1   | 7.2    | 4.6    | 3.9    | 2.6    | 1.9    | 1.3    | 0.0    | 0.0    | 0.0    |
| 82.5° | 26.8   | 7.8    | 2.6    | 1.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 9.1    | 1.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 3.3    | 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)