

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: P960957

Luminaire Tested: **NVN-SB1D-760-U-AFL-HSS**

Issue Date: 1/21/2025

### Test Information

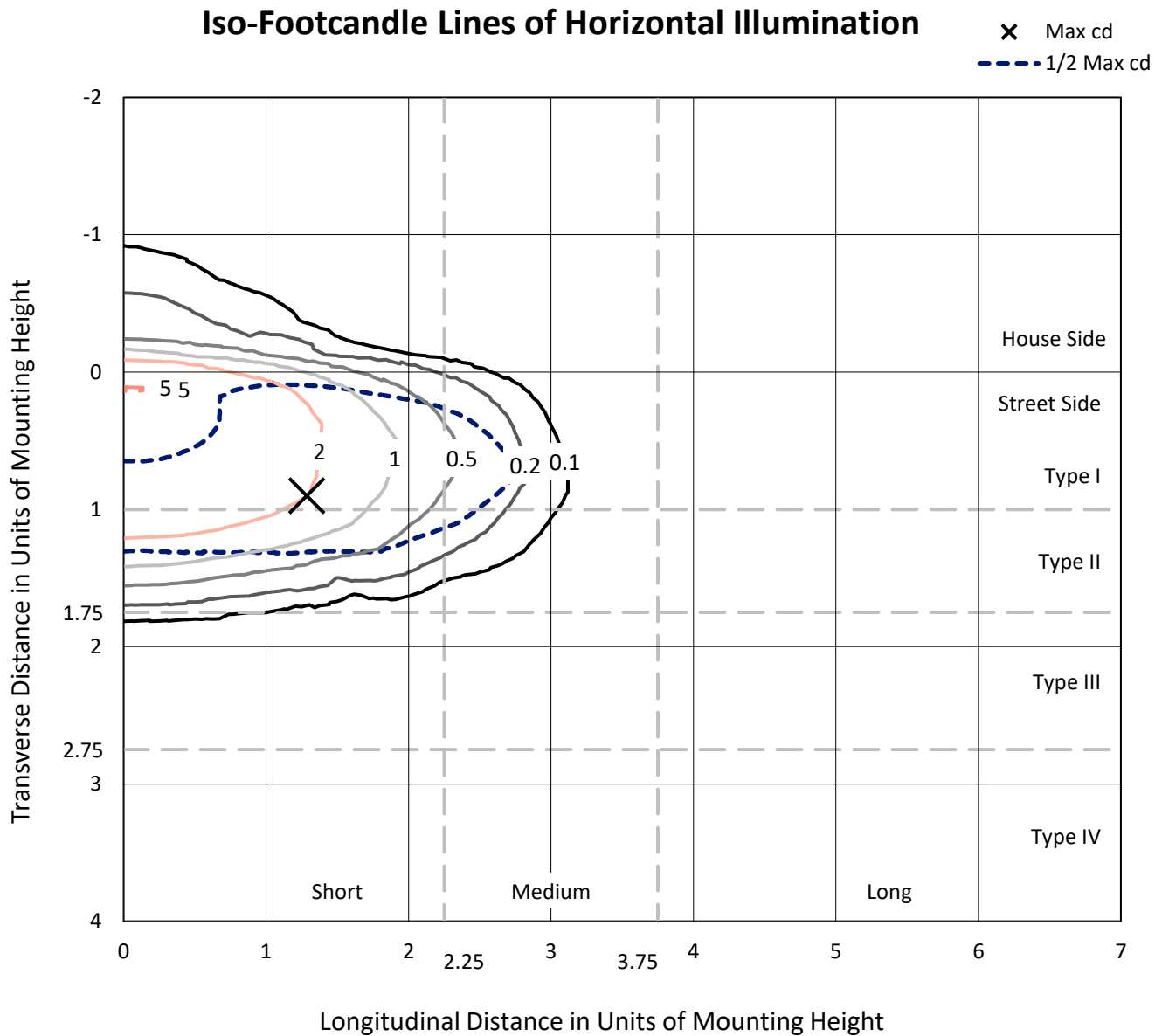
Test Method: LM-79-08  
Report Number: P960957  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB1D-760-U-AFL-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 5700K, 900mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 9411.5 lumens  
Efficiency: N/A  
Efficacy: 118.2 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): 79.6  
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



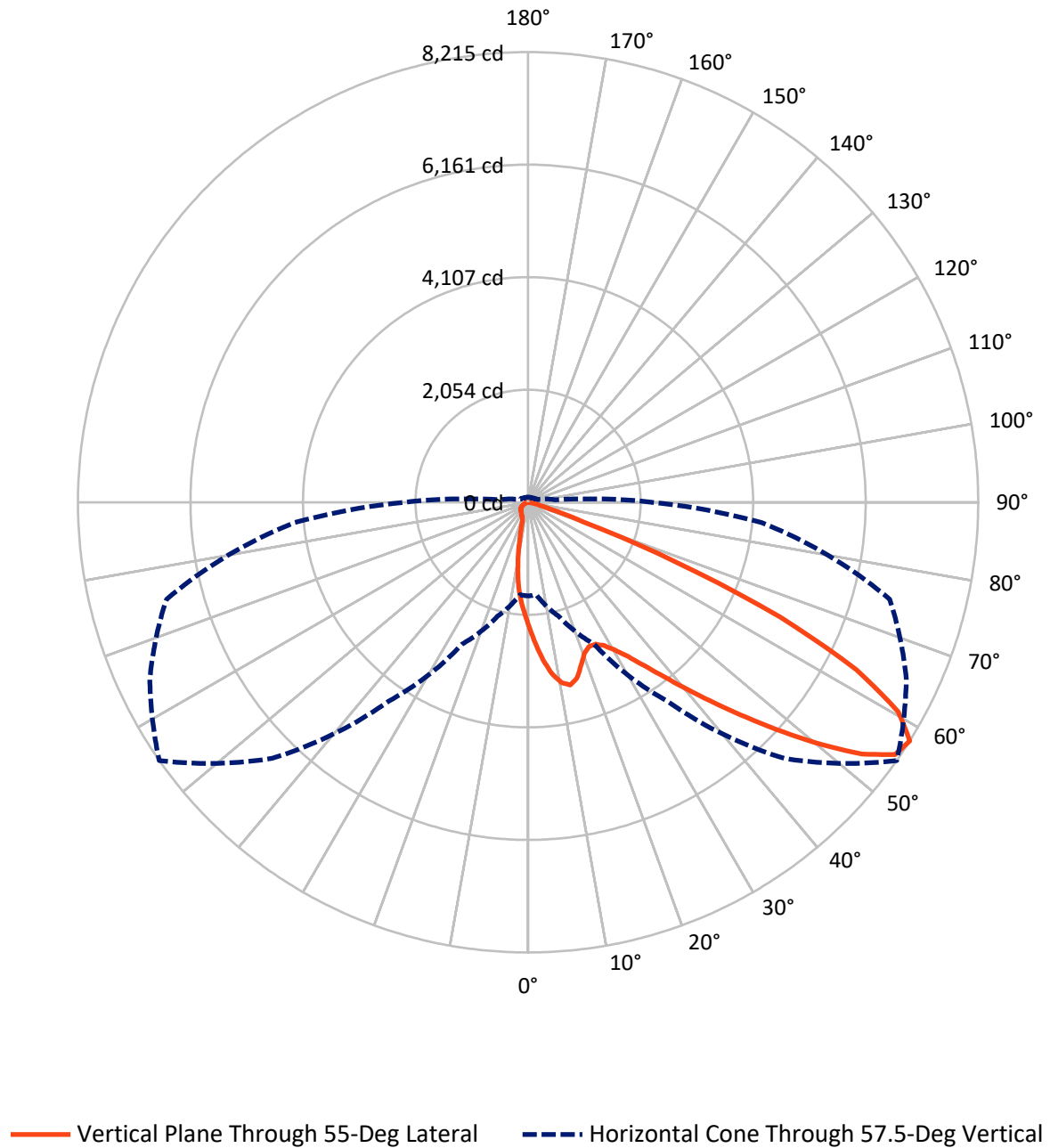
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Based on 25 foot mounting height. Maximum calculated value = 5.2 fc  
Type II - Short - N/A

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## Luminous Intensity Polar Plot



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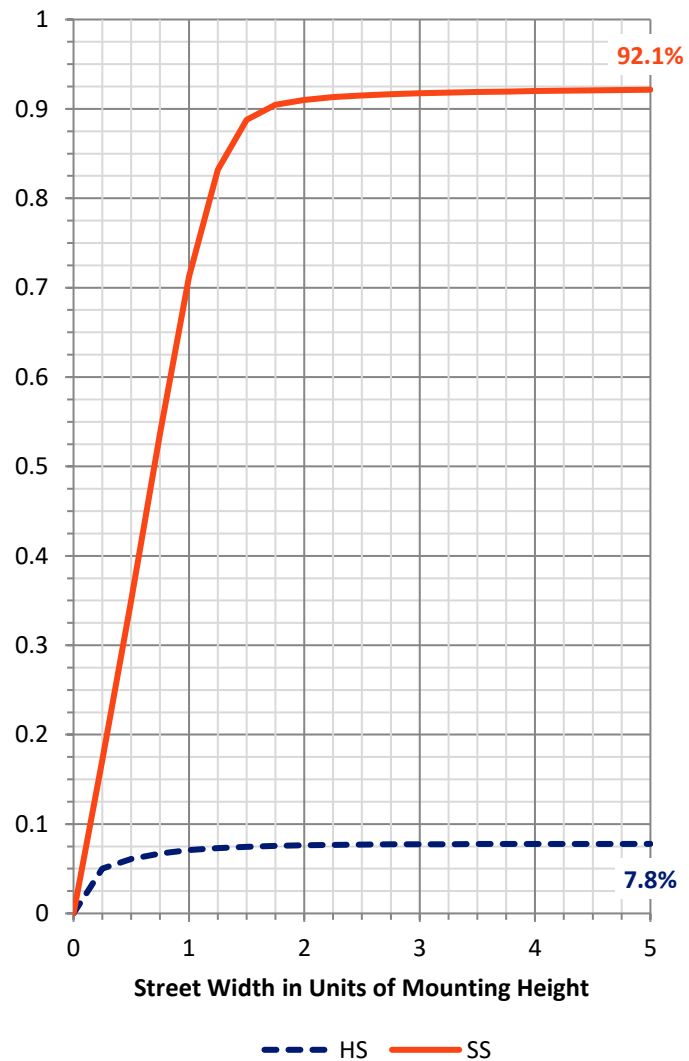
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 735.0    | 0.0    | 735.0  |
|                    | % Fixture | 7.8      | 0.0    | 7.8    |
| <b>Street Side</b> | Lumens    | 8676.6   | 0.0    | 8676.6 |
|                    | % Fixture | 92.2     | 0.0    | 92.2   |
| <b>Total</b>       | Lumens    | 9411.5   | 0.0    | 9411.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 211.0  | 2.2       |
| 10°-20°   | 509.7  | 5.4       |
| 20°-30°   | 815.5  | 8.7       |
| 30°-40°   | 1380.4 | 14.7      |
| 40°-50°   | 2266.3 | 24.1      |
| 50°-60°   | 2490.8 | 26.5      |
| 60°-70°   | 1428.7 | 15.2      |
| 70°-80°   | 291.9  | 3.1       |
| 80°-90°   | 17.2   | 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°    | 9411.5 | 100.0     |
| 0°-180°   | 9411.5 | 100.0     |

**Coefficient of Utilization**



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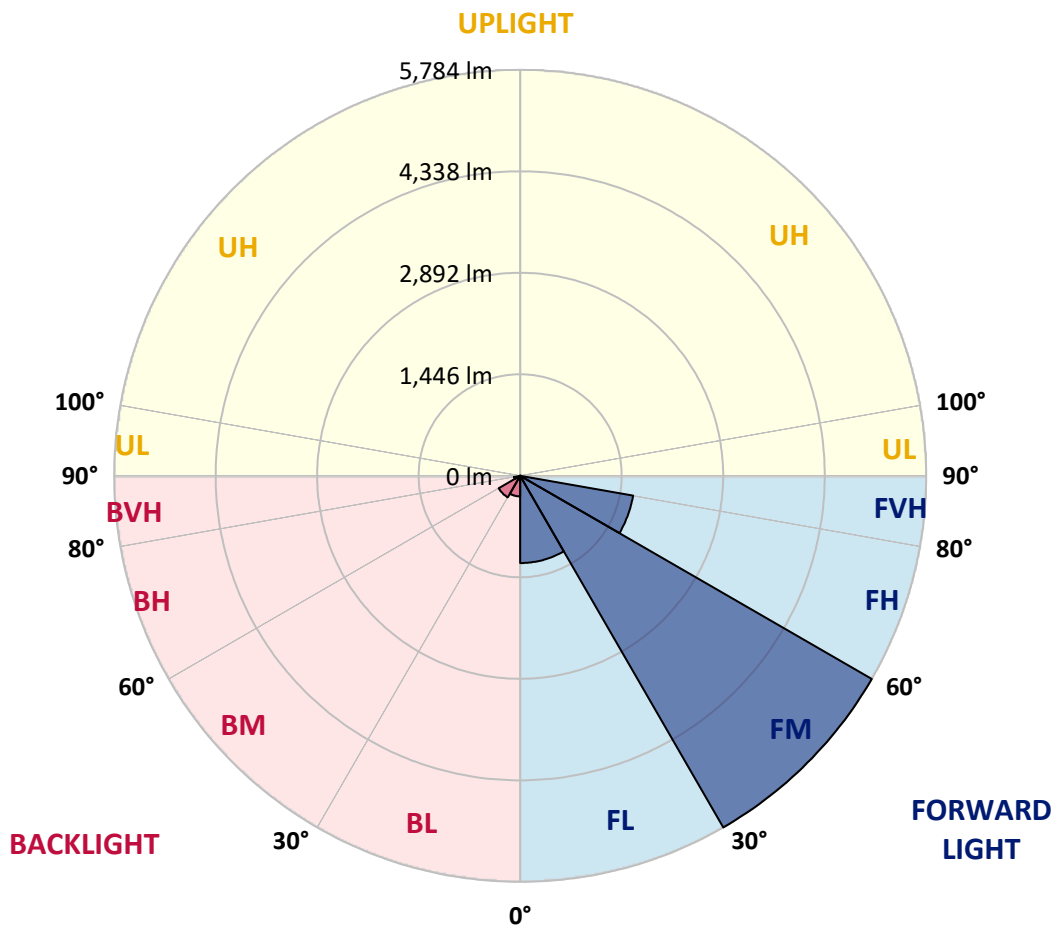
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1242.9 | 13.2      |                         |      |         |
| FM   | (30°-60°)   | 5784.4 | 61.5      |                         |      |         |
| FH   | (60°-80°)   | 1633.2 | 17.4      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 16.1   | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 293.4  | 3.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 353.0  | 3.8       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 87.4   | 0.9       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 1.2    | 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°    | 2267.9 | 2267.9 | 2267.9 | 2267.9 | 2267.9 | 2267.9 | 2267.9 | 2267.9 | 2267.9 | 2267.9 | 2267.9 |
| 2.5°  | 2814.0 | 2778.7 | 2773.4 | 2766.5 | 2699.1 | 2648.7 | 2575.5 | 2495.5 | 2405.5 | 2313.8 | 2273.1 |
| 5°    | 3251.0 | 3223.2 | 3218.0 | 3185.5 | 3108.8 | 3022.9 | 2893.0 | 2728.8 | 2561.1 | 2363.8 | 2279.0 |
| 7.5°  | 3335.8 | 3330.5 | 3354.3 | 3353.2 | 3342.7 | 3274.9 | 3165.2 | 2969.5 | 2717.7 | 2425.3 | 2294.1 |
| 10°   | 2957.9 | 2971.3 | 3042.1 | 3104.2 | 3271.9 | 3369.4 | 3345.6 | 3184.3 | 2879.0 | 2495.5 | 2310.9 |
| 12.5° | 2613.9 | 2598.2 | 2648.7 | 2718.9 | 2913.9 | 3204.0 | 3420.5 | 3363.6 | 3063.6 | 2574.9 | 2335.9 |
| 15°   | 2398.0 | 2391.5 | 2420.0 | 2452.5 | 2601.0 | 2893.6 | 3333.4 | 3509.3 | 3241.2 | 2669.0 | 2373.6 |
| 17.5° | 2328.9 | 2323.7 | 2332.4 | 2340.5 | 2436.8 | 2663.2 | 3126.2 | 3598.7 | 3411.2 | 2776.3 | 2415.3 |
| 20°   | 2385.2 | 2378.2 | 2377.1 | 2370.6 | 2410.7 | 2565.1 | 2938.8 | 3605.0 | 3563.8 | 2873.8 | 2451.3 |
| 22.5° | 2549.4 | 2541.3 | 2512.9 | 2487.4 | 2490.8 | 2578.4 | 2855.2 | 3541.2 | 3678.7 | 2964.9 | 2473.9 |
| 25°   | 2847.1 | 2833.8 | 2774.6 | 2688.7 | 2634.1 | 2671.3 | 2868.1 | 3457.0 | 3788.4 | 3036.4 | 2463.0 |
| 27.5° | 3219.7 | 3202.3 | 3126.2 | 2998.6 | 2873.8 | 2828.6 | 2960.3 | 3399.0 | 3879.5 | 3090.9 | 2439.2 |
| 30°   | 3584.7 | 3562.1 | 3487.3 | 3388.0 | 3205.8 | 3063.0 | 3126.9 | 3424.5 | 3988.1 | 3147.8 | 2407.8 |
| 32.5° | 3978.7 | 3957.3 | 3858.1 | 3735.0 | 3584.1 | 3392.0 | 3354.9 | 3549.4 | 4121.0 | 3227.2 | 2385.8 |
| 35°   | 4477.3 | 4443.6 | 4302.6 | 4134.8 | 3974.7 | 3780.3 | 3663.7 | 3764.6 | 4297.9 | 3348.6 | 2398.0 |
| 37.5° | 5044.8 | 4999.6 | 4847.5 | 4616.0 | 4407.1 | 4189.5 | 4039.7 | 4060.6 | 4557.4 | 3511.0 | 2435.7 |
| 40°   | 5579.9 | 5538.7 | 5398.3 | 5180.0 | 4917.7 | 4653.7 | 4494.1 | 4447.7 | 4915.5 | 3709.0 | 2501.8 |
| 42.5° | 5900.8 | 5863.7 | 5804.5 | 5712.2 | 5491.1 | 5221.9 | 5020.4 | 4920.1 | 5339.1 | 3945.7 | 2582.5 |
| 45°   | 5918.9 | 5886.4 | 5965.8 | 6073.2 | 6029.7 | 5850.4 | 5604.9 | 5420.9 | 5764.5 | 4168.0 | 2666.0 |
| 47.5° | 5631.0 | 5608.9 | 5850.4 | 6225.2 | 6412.1 | 6487.5 | 6261.2 | 5879.9 | 6115.6 | 4327.5 | 2700.3 |
| 50°   | 4846.4 | 4838.3 | 5335.0 | 6023.3 | 6557.7 | 7045.8 | 6953.6 | 6307.1 | 6387.8 | 4410.0 | 2667.8 |
| 52.5° | 4202.2 | 4172.6 | 4462.2 | 5376.8 | 6346.0 | 7339.5 | 7630.2 | 6726.0 | 6578.1 | 4425.6 | 2591.8 |
| 55°   | 3187.2 | 3161.1 | 3524.4 | 4295.1 | 5662.9 | 7235.1 | 8125.3 | 7158.4 | 6714.5 | 4385.6 | 2455.4 |
| 57.5° | 1709.7 | 1693.4 | 2152.5 | 2858.7 | 4426.8 | 6608.3 | 8214.7 | 7615.7 | 6829.4 | 4279.4 | 2264.4 |
| 60°   | 665.6  | 662.8  | 834.6  | 1387.0 | 2690.4 | 5376.2 | 7763.8 | 7890.2 | 6901.3 | 4148.8 | 2104.8 |
| 62.5° | 402.7  | 411.4  | 439.3  | 622.7  | 1188.5 | 3339.9 | 6724.3 | 7578.0 | 6949.5 | 4029.3 | 1973.1 |
| 65°   | 333.1  | 333.7  | 337.2  | 427.7  | 569.3  | 1397.5 | 5062.3 | 6550.9 | 6830.6 | 3816.3 | 1786.3 |
| 67.5° | 285.6  | 290.8  | 304.1  | 339.5  | 401.6  | 612.8  | 2914.5 | 5074.5 | 6106.8 | 3320.7 | 1495.0 |
| 70°   | 225.2  | 232.2  | 249.0  | 279.1  | 309.9  | 383.6  | 1077.1 | 3376.4 | 4665.3 | 2502.9 | 1130.5 |
| 72.5° | 189.7  | 189.2  | 197.9  | 226.9  | 246.1  | 269.9  | 414.4  | 1891.9 | 2711.3 | 1194.9 | 559.4  |
| 75°   | 146.8  | 152.6  | 163.7  | 189.7  | 201.4  | 195.6  | 224.6  | 691.2  | 971.5  | 362.1  | 190.3  |
| 77.5° | 114.9  | 119.5  | 129.5  | 155.0  | 166.6  | 138.7  | 129.5  | 247.2  | 312.2  | 130.0  | 85.9   |
| 80°   | 51.7   | 55.8   | 88.3   | 114.3  | 135.8  | 95.7   | 70.2   | 126.5  | 138.7  | 59.2   | 43.6   |
| 82.5° | 9.3    | 15.7   | 51.7   | 60.4   | 69.6   | 62.1   | 36.6   | 65.6   | 67.9   | 23.8   | 15.1   |
| 85°   | 0.6    | 1.1    | 18.0   | 22.0   | 27.9   | 20.3   | 11.1   | 26.1   | 22.7   | 8.1    | 5.8    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.6    | 0.6    | 2.9    | 3.5    | 4.6    | 3.5    | 2.9    | 2.4    |
| 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°    | 2267.9 | 2267.9 | 2267.9 | 2267.9 | 2267.9 | 2267.9 | 2267.9 | 2267.9 | 2267.9 | 2267.9 |
| 2.5°  | 2231.4 | 2149.0 | 2068.9 | 2003.4 | 1965.0 | 1900.0 | 1857.1 | 1850.1 | 1832.1 | 1847.8 |
| 5°    | 2188.5 | 2041.1 | 1891.9 | 1758.4 | 1648.7 | 1507.2 | 1401.5 | 1356.8 | 1317.9 | 1331.3 |
| 7.5°  | 2168.2 | 1935.4 | 1703.2 | 1475.2 | 1240.8 | 1014.4 | 846.1  | 775.9  | 722.5  | 730.1  |
| 10°   | 2140.8 | 1825.7 | 1461.9 | 1113.7 | 799.7  | 576.3  | 460.2  | 417.3  | 393.5  | 394.0  |
| 12.5° | 2120.0 | 1694.5 | 1181.5 | 755.0  | 486.9  | 368.0  | 332.0  | 321.5  | 314.6  | 315.1  |
| 15°   | 2109.6 | 1540.2 | 904.8  | 503.2  | 348.2  | 311.6  | 302.9  | 298.3  | 293.7  | 293.0  |
| 17.5° | 2092.1 | 1368.5 | 662.2  | 367.4  | 304.6  | 291.9  | 284.3  | 279.1  | 273.4  | 272.1  |
| 20°   | 2066.0 | 1173.4 | 484.0  | 310.5  | 285.6  | 275.6  | 265.2  | 258.3  | 251.3  | 250.1  |
| 22.5° | 2017.8 | 967.4  | 372.0  | 287.3  | 271.6  | 260.6  | 247.8  | 239.6  | 232.7  | 231.5  |
| 25°   | 1928.4 | 774.2  | 313.3  | 272.8  | 259.4  | 246.1  | 232.2  | 221.1  | 214.7  | 213.6  |
| 27.5° | 1815.3 | 608.2  | 284.3  | 259.4  | 243.7  | 231.5  | 215.9  | 205.4  | 199.7  | 198.4  |
| 30°   | 1681.8 | 468.3  | 267.5  | 244.4  | 225.2  | 214.7  | 200.8  | 192.1  | 188.6  | 188.6  |
| 32.5° | 1537.9 | 374.3  | 260.6  | 229.2  | 208.9  | 197.3  | 186.2  | 182.8  | 181.6  | 181.0  |
| 35°   | 1402.7 | 325.0  | 257.1  | 217.1  | 194.4  | 183.4  | 178.8  | 179.3  | 181.6  | 181.6  |
| 37.5° | 1282.6 | 309.3  | 255.3  | 208.4  | 181.6  | 171.8  | 174.7  | 179.9  | 177.6  | 177.6  |
| 40°   | 1174.0 | 311.1  | 254.2  | 201.9  | 171.2  | 165.4  | 171.2  | 167.2  | 161.3  | 160.7  |
| 42.5° | 1091.0 | 325.5  | 251.8  | 196.7  | 164.8  | 160.7  | 158.5  | 152.0  | 151.5  | 152.6  |
| 45°   | 1030.6 | 338.4  | 251.3  | 194.4  | 157.8  | 150.3  | 147.4  | 141.0  | 152.6  | 155.5  |
| 47.5° | 959.3  | 338.4  | 251.3  | 186.2  | 146.3  | 143.3  | 138.7  | 131.7  | 143.3  | 146.3  |
| 50°   | 867.0  | 316.8  | 241.4  | 177.0  | 136.9  | 135.2  | 127.1  | 118.4  | 116.0  | 117.8  |
| 52.5° | 750.4  | 278.0  | 216.5  | 164.2  | 127.7  | 124.2  | 114.3  | 107.9  | 106.2  | 106.2  |
| 55°   | 617.5  | 232.7  | 182.8  | 145.7  | 117.8  | 111.4  | 104.4  | 101.6  | 99.8   | 98.7   |
| 57.5° | 501.9  | 191.0  | 146.8  | 129.5  | 108.5  | 100.3  | 98.1   | 94.6   | 91.7   | 90.0   |
| 60°   | 412.0  | 150.3  | 121.3  | 114.9  | 99.2   | 91.7   | 91.1   | 86.5   | 78.9   | 77.8   |
| 62.5° | 318.1  | 110.3  | 102.1  | 99.8   | 90.0   | 83.5   | 82.4   | 73.1   | 61.5   | 59.2   |
| 65°   | 224.6  | 85.9   | 82.4   | 87.6   | 80.1   | 74.3   | 71.3   | 57.5   | 45.3   | 43.6   |
| 67.5° | 157.8  | 72.0   | 65.0   | 76.6   | 69.6   | 62.1   | 60.4   | 48.8   | 37.7   | 36.6   |
| 70°   | 112.5  | 58.6   | 53.4   | 65.6   | 55.8   | 54.5   | 51.0   | 40.6   | 30.7   | 29.6   |
| 72.5° | 79.5   | 44.7   | 41.2   | 56.9   | 38.3   | 47.0   | 41.8   | 31.4   | 23.2   | 22.0   |
| 75°   | 58.6   | 31.9   | 29.0   | 33.1   | 27.9   | 35.4   | 29.6   | 20.9   | 14.6   | 13.9   |
| 77.5° | 42.9   | 20.3   | 17.4   | 16.3   | 16.3   | 22.0   | 16.3   | 8.7    | 6.4    | 5.8    |
| 80°   | 30.1   | 9.3    | 8.1    | 7.0    | 6.4    | 5.2    | 2.4    | 1.1    | 0.6    | 0.6    |
| 82.5° | 18.0   | 4.1    | 4.1    | 2.9    | 1.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 4.1    | 1.7    | 1.7    | 0.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.6    | 0.6    | 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)