

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: P965038

Luminaire Tested: **NVN-SB3D-727-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P965038  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB3D-727-U-T3-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22765.2 lumens  
Efficiency: N/A  
Efficacy: 104.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

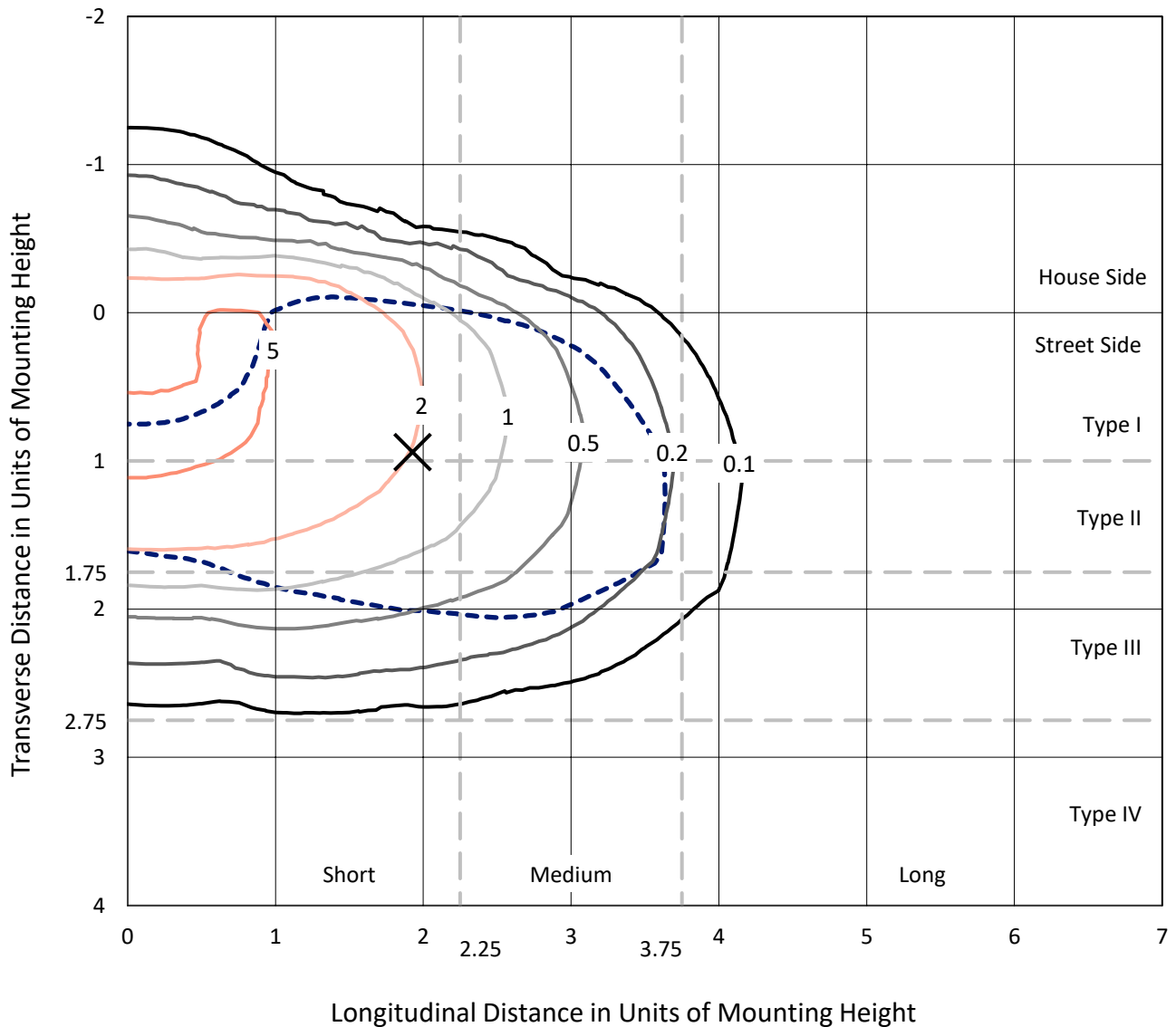
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

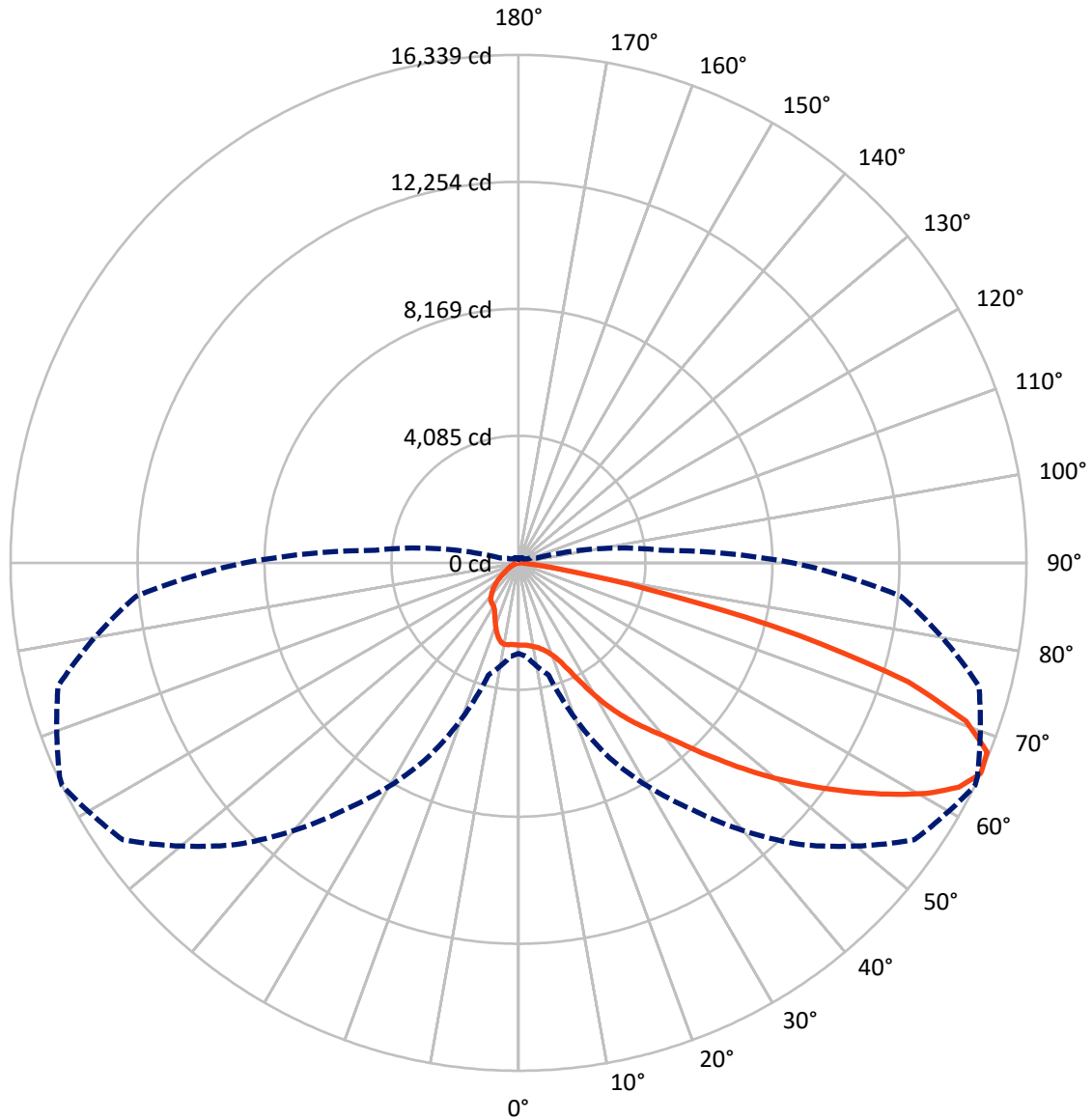
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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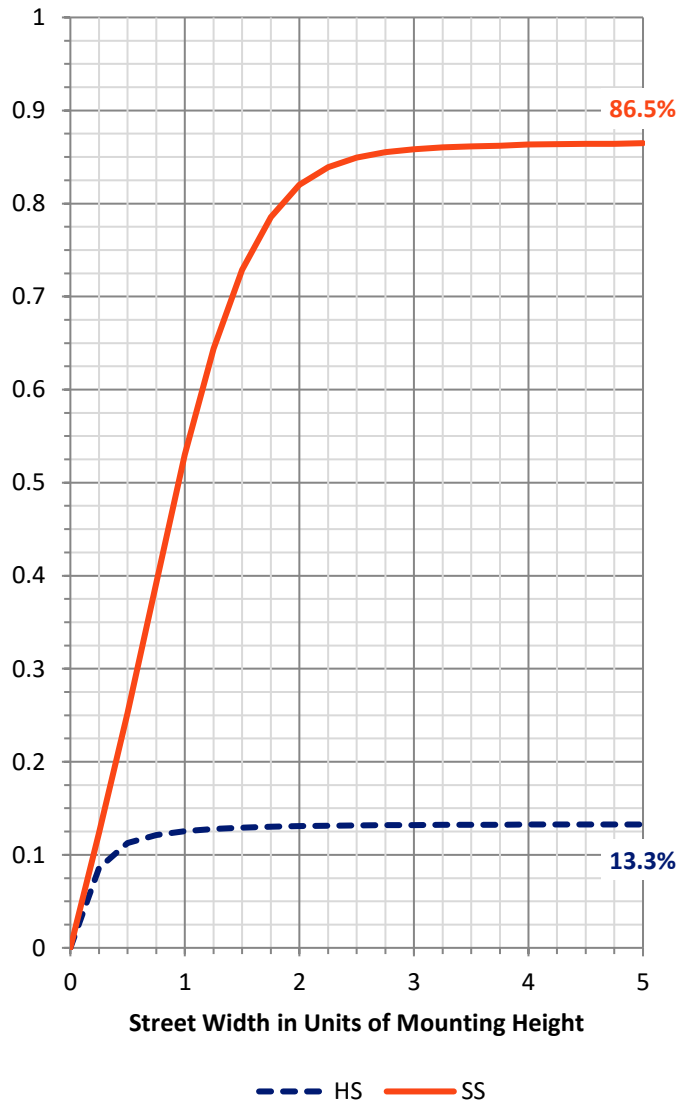
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3044.4   | 0.0    | 3044.4  |
|                    | % Fixture | 13.4     | 0.0    | 13.4    |
| <b>Street Side</b> | Lumens    | 19720.8  | 0.0    | 19720.8 |
|                    | % Fixture | 86.6     | 0.0    | 86.6    |
| <b>Total</b>       | Lumens    | 22765.2  | 0.0    | 22765.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 244.3   | 1.1       |
| 10°-20°   | 662.6   | 2.9       |
| 20°-30°   | 1255.5  | 5.5       |
| 30°-40°   | 2540.6  | 11.2      |
| 40°-50°   | 4328.0  | 19.0      |
| 50°-60°   | 5885.7  | 25.9      |
| 60°-70°   | 5527.0  | 24.3      |
| 70°-80°   | 2214.3  | 9.7       |
| 80°-90°   | 107.3   | 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°    | 22765.2 | 100.0     |
| 0°-180°   | 22765.2 | 100.0     |

**Coefficient of Utilization**



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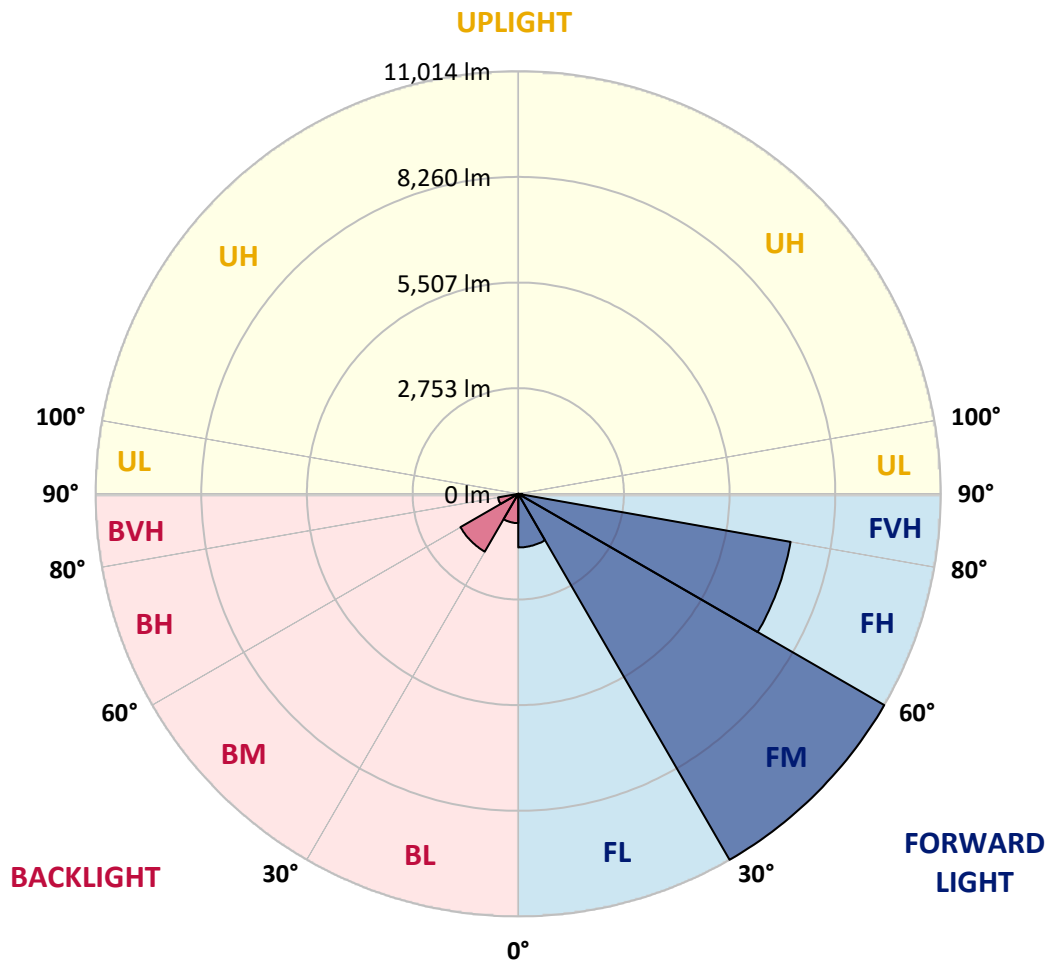
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 1398.0  | 6.1       |                         |      |         |
| FM (30°-60°)   | 11013.8 | 48.4      |                         |      |         |
| FH (60°-80°)   | 7207.0  | 31.7      |                         |      | G3/7500 |
| FVH (80°-90°)  | 102.0   | 0.4       |                         |      | G2/225  |
| BL (0°-30°)    | 764.4   | 3.4       | B2/1000                 |      |         |
| BM (30°-60°)   | 1740.5  | 7.6       | B2/2500                 |      |         |
| BH (60°-80°)   | 534.3   | 2.3       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 5.2     | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 64°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2647.9  | 2647.9  | 2647.9  | 2647.9  | 2647.9  | 2647.9  | 2647.9  | 2647.9  | 2647.9  | 2647.9  | 2647.9  |
| 2.5°  | 2638.7  | 2657.0  | 2652.4  | 2647.9  | 2646.3  | 2649.3  | 2650.9  | 2649.3  | 2649.3  | 2649.3  | 2650.9  |
| 5°    | 2588.3  | 2603.6  | 2603.6  | 2614.3  | 2629.5  | 2647.9  | 2661.6  | 2664.6  | 2667.7  | 2672.3  | 2670.7  |
| 7.5°  | 2492.2  | 2504.4  | 2513.5  | 2548.7  | 2586.8  | 2635.6  | 2676.8  | 2698.2  | 2701.3  | 2718.0  | 2724.1  |
| 10°   | 2426.6  | 2441.9  | 2457.0  | 2493.7  | 2548.7  | 2621.8  | 2692.1  | 2744.0  | 2751.6  | 2791.3  | 2809.6  |
| 12.5° | 2423.5  | 2438.8  | 2458.6  | 2498.2  | 2562.4  | 2640.2  | 2725.7  | 2800.4  | 2814.1  | 2872.2  | 2910.3  |
| 15°   | 2455.6  | 2473.8  | 2492.2  | 2541.0  | 2609.6  | 2704.3  | 2795.9  | 2889.0  | 2902.7  | 2985.1  | 3026.3  |
| 17.5° | 2521.2  | 2545.6  | 2559.3  | 2608.1  | 2681.4  | 2786.7  | 2907.3  | 3014.1  | 3026.3  | 3122.5  | 3174.3  |
| 20°   | 2650.9  | 2679.9  | 2684.5  | 2724.1  | 2795.9  | 2908.8  | 3052.2  | 3185.0  | 3200.3  | 3310.1  | 3368.2  |
| 22.5° | 2919.5  | 2960.7  | 2924.0  | 2943.9  | 3008.0  | 3120.9  | 3276.6  | 3444.5  | 3465.8  | 3591.0  | 3642.8  |
| 25°   | 3392.5  | 3450.6  | 3356.0  | 3322.4  | 3349.9  | 3467.4  | 3662.7  | 3874.8  | 3899.3  | 4000.0  | 4025.9  |
| 27.5° | 4322.0  | 4247.2  | 4103.8  | 3963.4  | 3881.0  | 3948.1  | 4167.9  | 4430.4  | 4460.9  | 4558.6  | 4528.0  |
| 30°   | 5343.0  | 5277.3  | 5083.5  | 4772.2  | 4576.8  | 4566.2  | 4769.1  | 5062.2  | 5097.2  | 5190.4  | 5097.2  |
| 32.5° | 6365.5  | 6302.9  | 6092.3  | 5709.2  | 5370.5  | 5202.6  | 5343.0  | 5668.0  | 5686.4  | 5745.8  | 5608.5  |
| 35°   | 7371.2  | 7307.1  | 7096.5  | 6704.3  | 6287.7  | 5906.2  | 5878.7  | 6244.9  | 6251.1  | 6313.6  | 6109.1  |
| 37.5° | 8383.1  | 8329.7  | 8105.3  | 7720.7  | 7310.2  | 6783.7  | 6528.7  | 6791.2  | 6798.9  | 6859.9  | 6647.8  |
| 40°   | 9104.9  | 9127.8  | 8973.7  | 8676.0  | 8323.5  | 7748.2  | 7258.2  | 7372.7  | 7326.9  | 7429.2  | 7302.5  |
| 42.5° | 9724.5  | 9770.3  | 9636.0  | 9486.4  | 9281.9  | 8775.2  | 8161.8  | 8141.9  | 8068.7  | 8123.6  | 7992.3  |
| 45°   | 10260.1 | 10298.3 | 10177.7 | 10142.7 | 10138.1 | 9782.5  | 9149.2  | 9030.1  | 8927.9  | 8917.2  | 8760.0  |
| 47.5° | 10457.0 | 10530.3 | 10582.2 | 10699.7 | 10928.7 | 10779.1 | 10170.2 | 9985.4  | 9871.1  | 9787.1  | 9538.3  |
| 50°   | 10531.8 | 10609.7 | 10786.7 | 11128.5 | 11670.3 | 11734.4 | 11186.5 | 10979.0 | 10838.6 | 10685.9 | 10319.7 |
| 52.5° | 10431.1 | 10570.0 | 10808.0 | 11383.4 | 12169.3 | 12500.5 | 12161.7 | 11980.1 | 11819.9 | 11571.1 | 11027.8 |
| 55°   | 9837.4  | 9976.3  | 10463.1 | 11380.4 | 12418.1 | 13037.7 | 13083.5 | 13002.6 | 12822.5 | 12430.3 | 11600.1 |
| 57.5° | 8586.0  | 8792.0  | 9562.7  | 10992.7 | 12413.6 | 13500.2 | 13986.9 | 14045.0 | 13843.5 | 13282.0 | 12050.3 |
| 60°   | 6852.3  | 7131.6  | 8071.7  | 10133.5 | 12030.5 | 13750.5 | 14779.1 | 15069.0 | 14855.3 | 14121.3 | 12415.1 |
| 62.5° | 4781.3  | 5104.9  | 5994.6  | 8787.4  | 11154.5 | 13570.4 | 15357.5 | 15893.1 | 15731.4 | 14872.1 | 12555.4 |
| 65°   | 2916.4  | 3020.2  | 3737.5  | 6914.9  | 9664.9  | 12816.4 | 15536.0 | 16338.7 | 16285.3 | 15331.5 | 12347.9 |
| 67.5° | 1942.8  | 2029.7  | 2235.7  | 4741.6  | 7502.5  | 11310.2 | 15108.7 | 16260.9 | 16276.2 | 15256.7 | 11587.9 |
| 70°   | 1170.6  | 1245.3  | 1379.6  | 2757.8  | 4862.3  | 8952.2  | 13785.5 | 15268.9 | 15357.5 | 14257.1 | 10147.2 |
| 72.5° | 482.3   | 532.6   | 654.7   | 1249.9  | 2518.1  | 5681.8  | 10977.4 | 13109.4 | 13315.5 | 11987.8 | 7787.8  |
| 75°   | 273.2   | 299.1   | 384.6   | 627.2   | 1092.8  | 2647.9  | 6649.4  | 9306.4  | 9610.0  | 8262.4  | 4685.2  |
| 77.5° | 181.6   | 193.8   | 248.8   | 405.9   | 615.0   | 903.4   | 2841.6  | 4848.6  | 5428.4  | 4512.8  | 2028.3  |
| 80°   | 122.1   | 132.7   | 171.0   | 271.6   | 399.9   | 387.7   | 905.0   | 1796.2  | 2209.8  | 1550.5  | 494.5   |
| 82.5° | 82.4    | 83.9    | 122.1   | 178.6   | 253.4   | 187.7   | 267.1   | 558.5   | 702.0   | 448.6   | 187.7   |
| 85°   | 47.4    | 45.8    | 90.0    | 103.7   | 113.0   | 77.8    | 80.9    | 167.9   | 219.8   | 189.2   | 106.8   |
| 87.5° | 6.1     | 9.1     | 35.1    | 27.5    | 15.3    | 16.8    | 16.8    | 29.0    | 42.7    | 45.8    | 22.9    |
| 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°    | 2647.9  | 2647.9 | 2647.9 | 2647.9 | 2647.9 | 2647.9 | 2647.9 | 2647.9 | 2647.9 | 2647.9 | 2647.9 |
| 2.5°  | 2650.9  | 2649.3 | 2644.8 | 2640.2 | 2629.5 | 2623.4 | 2626.5 | 2623.4 | 2621.8 | 2623.4 | 2629.5 |
| 5°    | 2670.7  | 2666.1 | 2653.9 | 2638.7 | 2617.3 | 2591.4 | 2574.6 | 2550.2 | 2527.2 | 2513.5 | 2516.6 |
| 7.5°  | 2724.1  | 2719.5 | 2702.8 | 2660.1 | 2591.4 | 2483.1 | 2383.8 | 2296.8 | 2231.2 | 2193.1 | 2194.5 |
| 10°   | 2809.6  | 2801.9 | 2776.0 | 2681.4 | 2501.3 | 2264.7 | 2067.9 | 1904.7 | 1797.7 | 1747.4 | 1742.8 |
| 12.5° | 2910.3  | 2901.2 | 2855.3 | 2661.6 | 2330.4 | 1961.0 | 1689.4 | 1507.8 | 1408.7 | 1364.4 | 1359.8 |
| 15°   | 3029.4  | 3017.2 | 2927.1 | 2566.9 | 2081.7 | 1625.3 | 1376.6 | 1240.8 | 1176.6 | 1136.9 | 1138.5 |
| 17.5° | 3177.4  | 3156.1 | 2980.5 | 2425.0 | 1811.5 | 1368.9 | 1184.3 | 1082.0 | 1025.5 | 987.4  | 984.3  |
| 20°   | 3369.7  | 3334.6 | 3023.2 | 2255.6 | 1562.7 | 1207.1 | 1054.5 | 969.1  | 926.4  | 892.8  | 886.7  |
| 22.5° | 3638.3  | 3587.9 | 3075.1 | 2072.4 | 1387.2 | 1095.7 | 958.4  | 895.8  | 860.7  | 822.6  | 816.5  |
| 25°   | 3971.0  | 3911.5 | 3139.3 | 1903.1 | 1266.7 | 999.6  | 888.2  | 836.3  | 795.1  | 750.8  | 746.3  |
| 27.5° | 4436.5  | 4329.6 | 3215.5 | 1764.2 | 1162.9 | 917.2  | 824.1  | 766.1  | 718.8  | 682.1  | 674.6  |
| 30°   | 4955.4  | 4779.9 | 3282.7 | 1680.3 | 1068.3 | 840.9  | 740.2  | 682.1  | 638.0  | 612.0  | 607.4  |
| 32.5° | 5446.7  | 5208.6 | 3326.9 | 1643.7 | 982.9  | 753.9  | 648.6  | 586.0  | 552.5  | 544.8  | 549.4  |
| 35°   | 5910.7  | 5596.3 | 3322.4 | 1608.5 | 906.5  | 667.0  | 558.5  | 494.5  | 468.5  | 473.1  | 473.1  |
| 37.5° | 6444.9  | 6009.9 | 3290.4 | 1553.6 | 844.0  | 587.5  | 480.7  | 424.2  | 401.4  | 402.9  | 409.0  |
| 40°   | 7065.9  | 6487.5 | 3270.5 | 1449.9 | 775.3  | 514.3  | 416.7  | 370.8  | 354.0  | 348.0  | 346.4  |
| 42.5° | 7728.3  | 6950.0 | 3273.5 | 1332.3 | 689.8  | 448.6  | 372.4  | 334.3  | 319.0  | 314.4  | 312.8  |
| 45°   | 8393.7  | 7391.1 | 3278.2 | 1210.2 | 599.7  | 398.3  | 340.3  | 308.3  | 299.1  | 293.0  | 293.0  |
| 47.5° | 9019.4  | 7766.4 | 3192.7 | 1079.0 | 511.3  | 360.2  | 314.4  | 293.0  | 285.4  | 277.8  | 277.8  |
| 50°   | 9602.4  | 8016.7 | 2986.6 | 926.4  | 441.1  | 329.6  | 294.6  | 279.3  | 271.6  | 264.0  | 264.0  |
| 52.5° | 10055.7 | 8056.4 | 2646.3 | 769.2  | 392.2  | 306.8  | 282.3  | 268.5  | 259.4  | 251.8  | 250.3  |
| 55°   | 10257.1 | 7807.6 | 2162.5 | 622.7  | 354.0  | 286.9  | 270.1  | 256.4  | 245.7  | 238.1  | 236.6  |
| 57.5° | 10205.2 | 7284.3 | 1686.3 | 500.6  | 317.4  | 267.1  | 254.8  | 245.7  | 233.5  | 221.3  | 219.8  |
| 60°   | 9950.4  | 6583.7 | 1271.3 | 416.7  | 283.8  | 245.7  | 238.1  | 230.4  | 213.6  | 195.4  | 192.3  |
| 62.5° | 9509.3  | 5703.1 | 906.5  | 344.9  | 247.2  | 221.3  | 218.2  | 212.2  | 187.7  | 154.2  | 151.1  |
| 65°   | 8834.8  | 4633.3 | 610.5  | 286.9  | 212.2  | 193.8  | 195.4  | 184.7  | 152.6  | 114.5  | 111.4  |
| 67.5° | 7848.8  | 3388.0 | 390.7  | 235.0  | 177.0  | 161.7  | 163.3  | 157.2  | 129.8  | 97.7   | 93.1   |
| 70°   | 6592.9  | 2243.4 | 254.8  | 178.6  | 142.0  | 125.2  | 134.3  | 135.8  | 109.9  | 79.3   | 76.3   |
| 72.5° | 4833.3  | 1324.7 | 178.6  | 132.7  | 103.7  | 87.0   | 109.9  | 113.0  | 88.6   | 59.6   | 56.5   |
| 75°   | 2754.7  | 628.7  | 134.3  | 96.1   | 64.1   | 61.1   | 85.5   | 85.5   | 61.1   | 39.7   | 36.6   |
| 77.5° | 1156.8  | 262.5  | 94.6   | 62.5   | 36.6   | 35.1   | 58.0   | 53.4   | 30.5   | 18.3   | 18.3   |
| 80°   | 334.3   | 117.5  | 50.3   | 30.5   | 15.3   | 13.7   | 22.9   | 16.8   | 7.6    | 3.1    | 3.1    |
| 82.5° | 131.2   | 51.9   | 19.9   | 12.2   | 6.1    | 6.1    | 3.1    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 77.8    | 21.3   | 9.1    | 4.6    | 1.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 19.9    | 4.6    | 3.1    | 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)