

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: P963030

Luminaire Tested: **NVN-SB2D-740-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P963030  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB2D-740-U-T4W  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

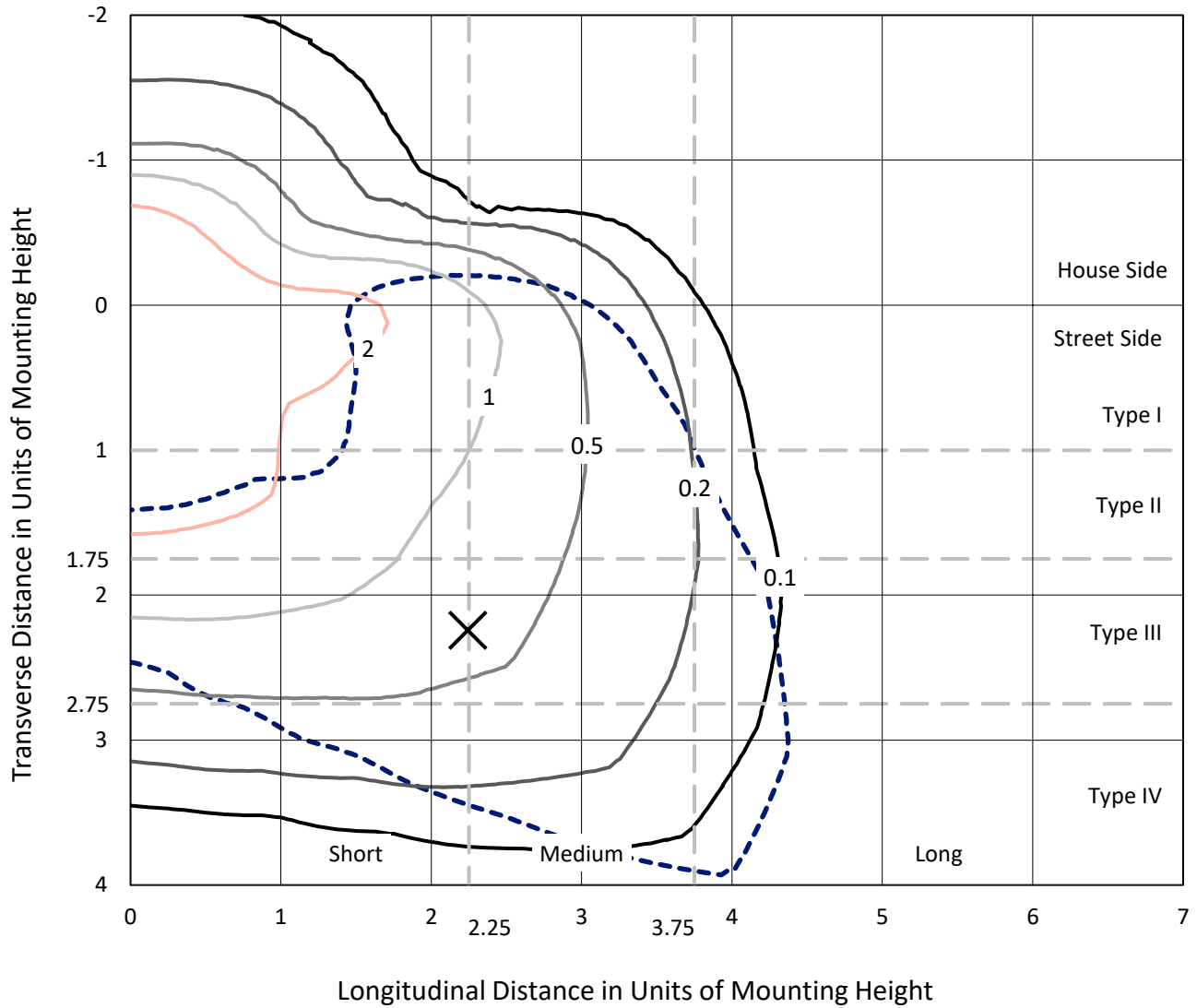
Lumens per Lamp: N/A  
Luminaire Lumens: 22025.2 lumens  
Efficiency: N/A  
Efficacy: 149.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): 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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### Iso-Footcandle Lines of Horizontal Illumination

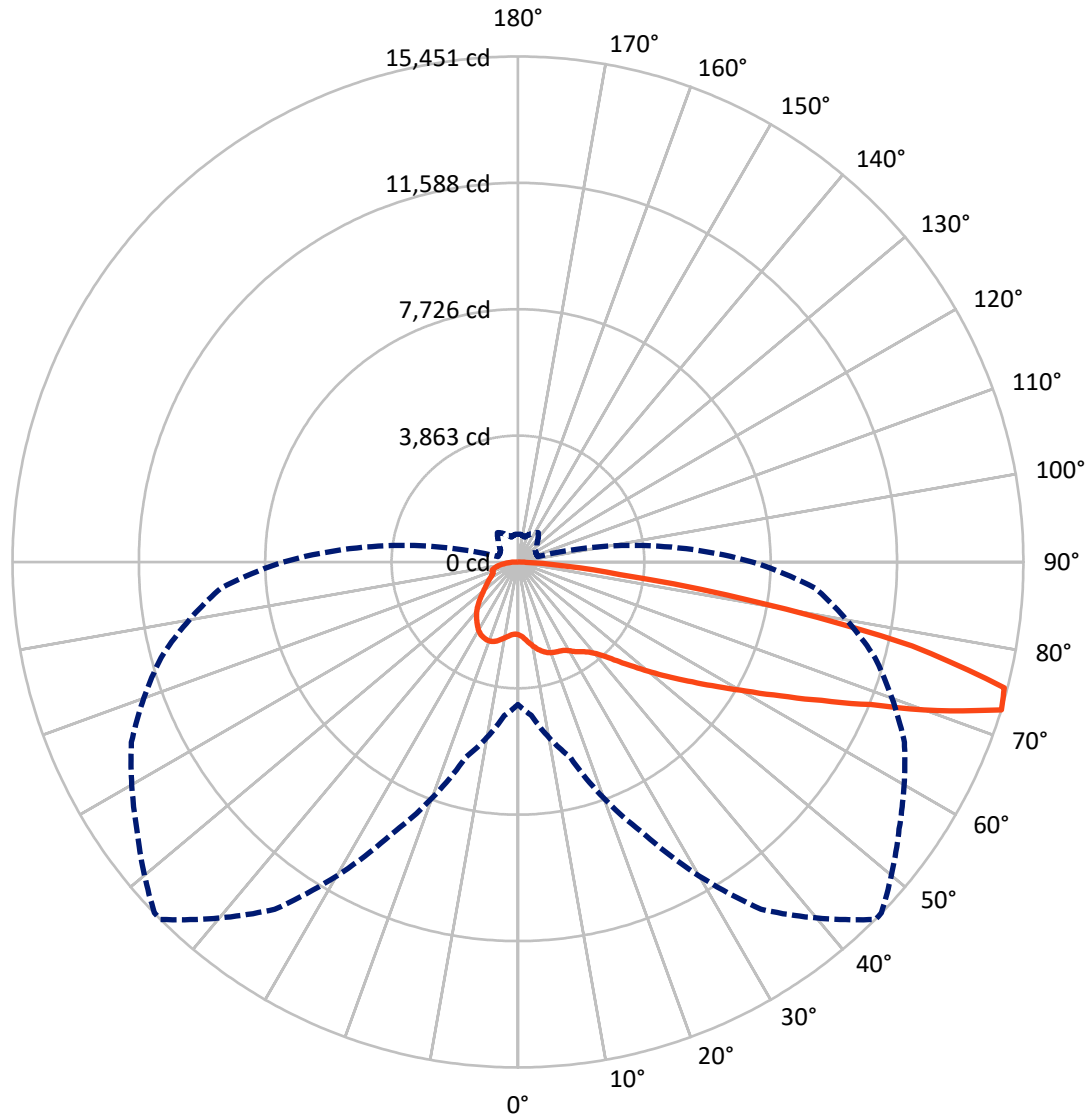
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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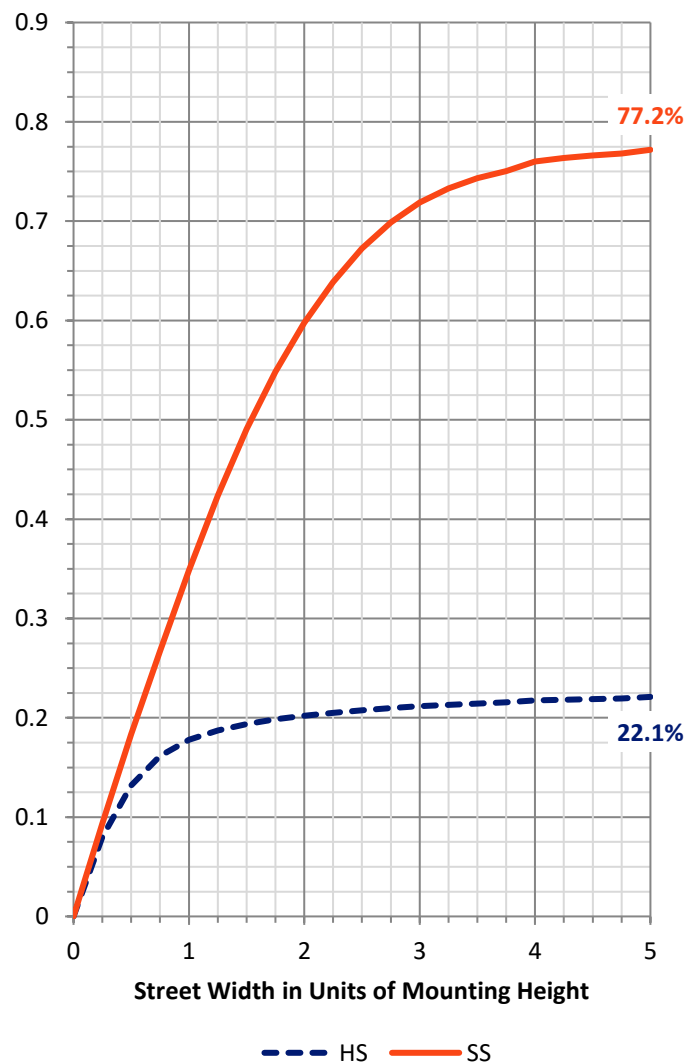
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4979.1   | 0.0    | 4979.1  |
|                    | % Fixture | 22.6     | 0.0    | 22.6    |
| <b>Street Side</b> | Lumens    | 17046.0  | 0.0    | 17046.0 |
|                    | % Fixture | 77.4     | 0.0    | 77.4    |
| <b>Total</b>       | Lumens    | 22025.2  | 0.0    | 22025.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 226.1   | 1.0       |
| 10°-20°   | 754.0   | 3.4       |
| 20°-30°   | 1311.6  | 6.0       |
| 30°-40°   | 1880.3  | 8.5       |
| 40°-50°   | 2647.6  | 12.0      |
| 50°-60°   | 4055.3  | 18.4      |
| 60°-70°   | 5874.7  | 26.7      |
| 70°-80°   | 4691.3  | 21.3      |
| 80°-90°   | 584.3   | 2.7       |
| 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°    | 22025.2 | 100.0     |
| 0°-180°   | 22025.2 | 100.0     |

**Coefficient of Utilization**



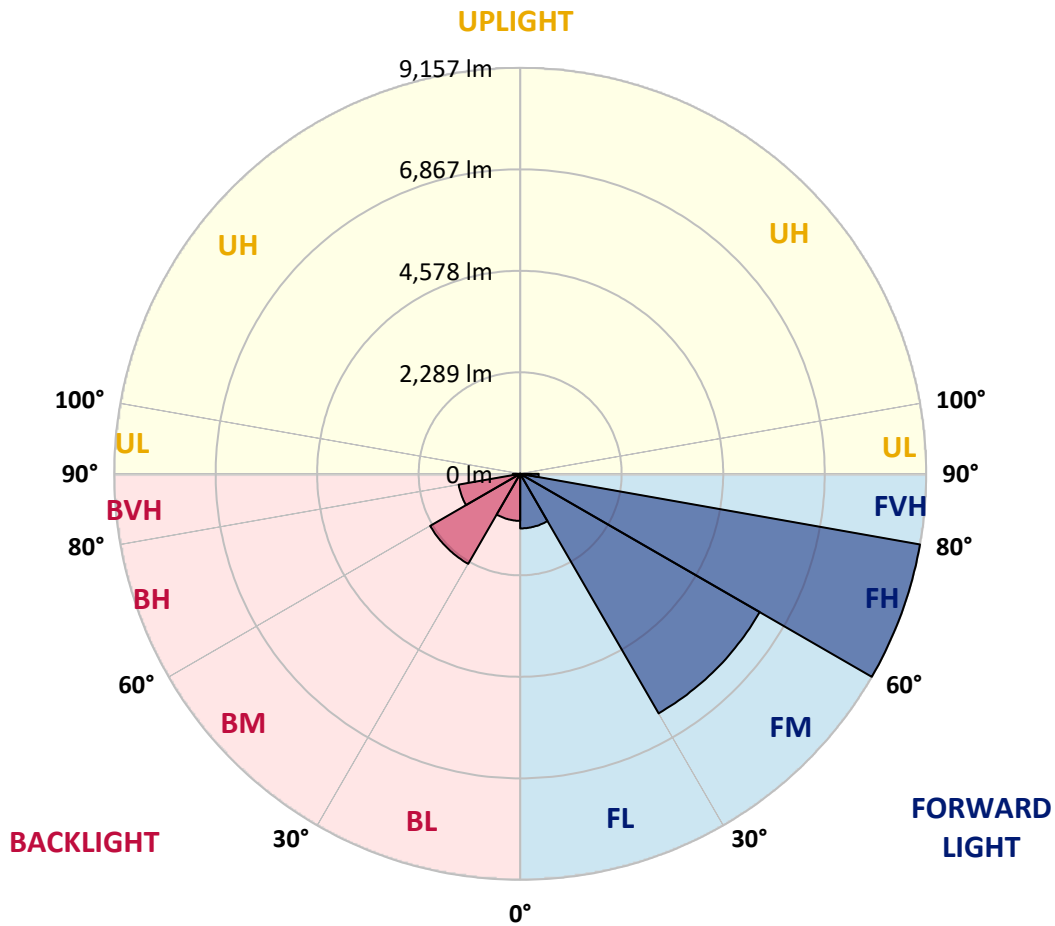
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|--------|-----------|-------------------------|------|----------|
|                |        |           | B                       | U    | G        |
| FL (0°-30°)    | 1231.7 | 5.6       |                         |      |          |
| FM (30°-60°)   | 6238.7 | 28.3      |                         |      |          |
| FH (60°-80°)   | 9156.5 | 41.6      |                         |      | G4/12000 |
| FVH (80°-90°)  | 419.2  | 1.9       |                         |      | G3/500   |
| BL (0°-30°)    | 1060.1 | 4.8       | B3/2500                 |      |          |
| BM (30°-60°)   | 2344.5 | 10.6      | B2/2500                 |      |          |
| BH (60°-80°)   | 1409.5 | 6.4       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 165.1  | 0.7       |                         |      | G2/225   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°     | 35°     | 45°     | 46°     | 55°     | 65°     | 75°     | 85°     |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2221.9 | 2221.9 | 2221.9 | 2221.9  | 2221.9  | 2221.9  | 2221.9  | 2221.9  | 2221.9  | 2221.9  | 2221.9  |
| 2.5°  | 2308.9 | 2324.0 | 2310.1 | 2297.3  | 2291.5  | 2276.4  | 2275.3  | 2266.0  | 2260.2  | 2243.9  | 2239.3  |
| 5°    | 2470.2 | 2489.9 | 2466.8 | 2441.2  | 2418.0  | 2380.9  | 2376.3  | 2349.5  | 2319.4  | 2284.5  | 2264.8  |
| 7.5°  | 2652.4 | 2669.8 | 2643.1 | 2604.8  | 2564.2  | 2502.7  | 2501.5  | 2452.8  | 2405.3  | 2346.0  | 2312.4  |
| 10°   | 2811.4 | 2834.5 | 2798.6 | 2746.4  | 2695.3  | 2625.6  | 2617.5  | 2561.9  | 2501.5  | 2424.9  | 2373.9  |
| 12.5° | 2951.7 | 2968.0 | 2933.1 | 2869.4  | 2810.1  | 2740.5  | 2730.1  | 2668.6  | 2601.3  | 2514.3  | 2449.3  |
| 15°   | 3063.1 | 3084.0 | 3037.6 | 2969.1  | 2906.5  | 2838.0  | 2828.7  | 2773.0  | 2705.8  | 2614.1  | 2530.5  |
| 17.5° | 3136.2 | 3153.6 | 3106.1 | 3029.5  | 2969.1  | 2912.2  | 2905.4  | 2858.9  | 2799.7  | 2706.9  | 2617.5  |
| 20°   | 3164.1 | 3182.6 | 3132.7 | 3055.0  | 2999.3  | 2955.2  | 2951.7  | 2918.1  | 2877.5  | 2792.7  | 2702.3  |
| 22.5° | 3191.8 | 3209.3 | 3144.3 | 3063.1  | 3014.4  | 2986.5  | 2985.4  | 2963.3  | 2947.1  | 2877.5  | 2789.3  |
| 25°   | 3304.4 | 3309.1 | 3222.1 | 3104.8  | 3035.2  | 3010.9  | 3009.7  | 3008.6  | 3015.5  | 2961.0  | 2883.2  |
| 27.5° | 3401.9 | 3400.7 | 3326.5 | 3216.2  | 3108.3  | 3057.3  | 3056.1  | 3067.7  | 3089.8  | 3044.6  | 2980.7  |
| 30°   | 3544.7 | 3531.8 | 3443.7 | 3328.8  | 3230.2  | 3151.3  | 3144.3  | 3133.8  | 3151.3  | 3115.3  | 3078.2  |
| 32.5° | 3847.4 | 3806.8 | 3664.2 | 3459.9  | 3331.1  | 3270.8  | 3261.5  | 3196.6  | 3203.5  | 3181.5  | 3162.8  |
| 35°   | 4281.4 | 4228.0 | 4037.8 | 3708.2  | 3456.4  | 3370.6  | 3365.9  | 3283.6  | 3269.6  | 3249.9  | 3256.8  |
| 37.5° | 4797.7 | 4731.6 | 4510.0 | 4067.9  | 3672.3  | 3486.6  | 3479.7  | 3405.4  | 3348.6  | 3327.7  | 3367.1  |
| 40°   | 5316.4 | 5232.8 | 5049.5 | 4506.5  | 3990.1  | 3680.4  | 3658.3  | 3545.8  | 3480.8  | 3445.9  | 3529.6  |
| 42.5° | 5820.0 | 5750.2 | 5593.6 | 4998.4  | 4382.3  | 3963.5  | 3914.8  | 3722.2  | 3673.4  | 3640.9  | 3791.8  |
| 45°   | 6265.4 | 6202.8 | 6087.9 | 5524.0  | 4841.8  | 4348.7  | 4301.1  | 3986.6  | 3971.6  | 3971.6  | 4189.7  |
| 47.5° | 6627.4 | 6613.5 | 6491.7 | 6060.1  | 5383.6  | 4787.3  | 4704.9  | 4354.5  | 4395.1  | 4457.7  | 4754.8  |
| 50°   | 7028.9 | 6990.6 | 6860.6 | 6588.0  | 6020.6  | 5289.6  | 5222.4  | 4805.8  | 4957.8  | 5129.5  | 5571.6  |
| 52.5° | 7397.8 | 7418.7 | 7273.7 | 7138.0  | 6740.0  | 5850.1  | 5731.7  | 5338.4  | 5666.7  | 5951.0  | 6528.8  |
| 55°   | 7777.3 | 7778.4 | 7737.8 | 7719.3  | 7494.2  | 6469.7  | 6339.7  | 5978.8  | 6501.0  | 6853.7  | 7645.0  |
| 57.5° | 8133.5 | 8135.8 | 8196.1 | 8359.7  | 8369.0  | 7184.4  | 7037.0  | 6765.5  | 7428.1  | 7787.7  | 8796.0  |
| 60°   | 8451.4 | 8467.6 | 8632.4 | 9015.3  | 9138.3  | 8003.5  | 7864.3  | 7694.9  | 8386.4  | 8748.4  | 10006.2 |
| 62.5° | 8558.1 | 8617.3 | 8983.9 | 9528.1  | 9898.2  | 9008.3  | 8871.4  | 8770.5  | 9393.5  | 9730.0  | 11017.9 |
| 65°   | 8377.1 | 8512.9 | 9221.8 | 9951.6  | 10680.3 | 10202.2 | 10066.5 | 9956.2  | 10440.1 | 10756.9 | 11848.7 |
| 67.5° | 7932.8 | 8108.0 | 9207.9 | 10396.0 | 11629.3 | 11638.7 | 11512.2 | 11253.5 | 11562.1 | 11683.9 | 12119.0 |
| 70°   | 6762.0 | 7024.2 | 8396.9 | 10561.9 | 12718.8 | 13603.0 | 13481.1 | 12815.2 | 12681.7 | 12092.3 | 11357.8 |
| 72.5° | 4356.8 | 4709.6 | 6183.1 | 9196.3  | 12961.3 | 15451.3 | 15444.3 | 14224.8 | 13035.6 | 11298.7 | 9109.3  |
| 75°   | 1589.6 | 1805.3 | 2872.9 | 5772.3  | 10879.9 | 15357.3 | 15402.6 | 13983.6 | 11899.7 | 8727.6  | 5674.9  |
| 77.5° | 579.0  | 633.6  | 937.5  | 2218.4  | 6691.3  | 12322.0 | 12416.0 | 11179.2 | 8470.0  | 4380.0  | 2248.6  |
| 80°   | 304.0  | 334.2  | 480.3  | 860.9   | 2867.0  | 7317.8  | 7465.2  | 6643.7  | 3980.9  | 1319.2  | 674.1   |
| 82.5° | 168.2  | 182.1  | 269.2  | 467.6   | 1291.4  | 3129.2  | 3217.5  | 2624.5  | 1400.5  | 559.2   | 278.5   |
| 85°   | 90.5   | 96.4   | 126.5  | 255.2   | 631.2   | 1084.9  | 1109.3  | 784.3   | 558.1   | 328.3   | 134.6   |
| 87.5° | 26.6   | 32.5   | 41.8   | 81.2    | 247.1   | 243.6   | 249.5   | 155.5   | 220.5   | 165.9   | 44.1    |
| 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°    | 2221.9  | 2221.9 | 2221.9 | 2221.9 | 2221.9 | 2221.9 | 2221.9 | 2221.9 | 2221.9 | 2221.9 | 2221.9 |
| 2.5°  | 2232.3  | 2228.9 | 2216.2 | 2210.3 | 2203.3 | 2202.2 | 2208.0 | 2209.2 | 2210.3 | 2211.4 | 2216.2 |
| 5°    | 2253.3  | 2241.7 | 2230.0 | 2223.1 | 2225.4 | 2226.5 | 2238.2 | 2246.3 | 2252.1 | 2256.7 | 2259.0 |
| 7.5°  | 2293.8  | 2284.5 | 2264.8 | 2263.7 | 2267.2 | 2277.7 | 2292.7 | 2311.3 | 2321.7 | 2329.8 | 2332.2 |
| 10°   | 2354.2  | 2336.8 | 2313.5 | 2317.0 | 2324.0 | 2339.0 | 2370.4 | 2385.5 | 2402.9 | 2418.0 | 2414.5 |
| 12.5° | 2415.7  | 2400.5 | 2373.9 | 2376.3 | 2387.8 | 2414.5 | 2444.7 | 2463.3 | 2474.9 | 2486.4 | 2491.1 |
| 15°   | 2495.8  | 2469.0 | 2440.0 | 2440.0 | 2460.9 | 2489.9 | 2503.9 | 2518.9 | 2525.9 | 2538.6 | 2543.3 |
| 17.5° | 2578.1  | 2543.3 | 2505.0 | 2502.7 | 2528.3 | 2542.1 | 2550.3 | 2552.6 | 2554.9 | 2568.9 | 2573.5 |
| 20°   | 2660.5  | 2622.3 | 2567.6 | 2563.0 | 2568.9 | 2566.5 | 2565.4 | 2563.0 | 2566.5 | 2583.9 | 2590.9 |
| 22.5° | 2741.7  | 2697.6 | 2622.3 | 2601.3 | 2585.0 | 2563.0 | 2561.9 | 2560.8 | 2563.0 | 2580.4 | 2592.0 |
| 25°   | 2836.9  | 2783.5 | 2682.5 | 2619.9 | 2565.4 | 2535.2 | 2538.6 | 2539.8 | 2542.1 | 2556.0 | 2574.6 |
| 27.5° | 2940.1  | 2881.0 | 2738.2 | 2614.1 | 2515.5 | 2494.5 | 2488.8 | 2492.3 | 2500.4 | 2522.4 | 2544.5 |
| 30°   | 3043.4  | 2973.7 | 2789.3 | 2590.9 | 2452.8 | 2423.8 | 2405.3 | 2413.4 | 2438.9 | 2460.9 | 2485.3 |
| 32.5° | 3137.3  | 3067.7 | 2829.9 | 2539.8 | 2372.8 | 2327.5 | 2303.2 | 2313.5 | 2339.0 | 2347.2 | 2376.3 |
| 35°   | 3247.6  | 3168.7 | 2847.3 | 2458.6 | 2285.8 | 2216.2 | 2183.7 | 2168.6 | 2181.3 | 2173.2 | 2198.7 |
| 37.5° | 3370.6  | 3288.2 | 2845.0 | 2351.9 | 2183.7 | 2103.6 | 2058.3 | 2001.4 | 1974.8 | 1946.9 | 1964.3 |
| 40°   | 3552.8  | 3434.4 | 2817.1 | 2223.1 | 2057.2 | 1984.1 | 1902.8 | 1806.6 | 1746.2 | 1691.7 | 1695.1 |
| 42.5° | 3801.0  | 3637.4 | 2766.1 | 2081.6 | 1914.4 | 1846.0 | 1735.7 | 1623.2 | 1528.1 | 1437.6 | 1429.5 |
| 45°   | 4171.1  | 3903.1 | 2702.3 | 1930.7 | 1760.1 | 1692.8 | 1573.4 | 1446.9 | 1339.0 | 1222.9 | 1209.0 |
| 47.5° | 4704.9  | 4260.5 | 2641.9 | 1759.0 | 1597.7 | 1536.2 | 1428.3 | 1311.1 | 1183.5 | 1070.9 | 1058.2 |
| 50°   | 5438.1  | 4773.3 | 2586.3 | 1591.9 | 1437.6 | 1391.1 | 1305.3 | 1185.8 | 1057.0 | 966.5  | 960.7  |
| 52.5° | 6371.0  | 5470.6 | 2563.0 | 1430.6 | 1287.9 | 1270.5 | 1202.0 | 1090.7 | 968.8  | 892.3  | 886.4  |
| 55°   | 7442.0  | 6304.9 | 2563.0 | 1276.3 | 1156.8 | 1162.6 | 1115.0 | 1011.8 | 906.2  | 837.7  | 830.8  |
| 57.5° | 8535.0  | 7149.6 | 2516.6 | 1133.5 | 1045.4 | 1069.8 | 1039.6 | 949.1  | 853.9  | 783.2  | 771.6  |
| 60°   | 9542.0  | 7857.3 | 2328.7 | 1003.7 | 946.8  | 985.0  | 965.3  | 887.6  | 771.6  | 712.4  | 703.2  |
| 62.5° | 10315.9 | 8256.5 | 1966.7 | 900.4  | 865.5  | 909.7  | 899.2  | 806.4  | 756.4  | 732.2  | 724.0  |
| 65°   | 10703.5 | 8191.5 | 1503.7 | 808.7  | 797.1  | 865.5  | 843.5  | 840.0  | 800.6  | 772.7  | 763.4  |
| 67.5° | 10465.7 | 7632.3 | 1090.7 | 741.4  | 757.7  | 824.9  | 909.7  | 923.5  | 850.4  | 795.9  | 786.7  |
| 70°   | 9422.5  | 6620.5 | 812.2  | 677.6  | 707.8  | 826.2  | 1037.3 | 966.5  | 834.2  | 770.4  | 759.9  |
| 72.5° | 7168.1  | 4936.9 | 630.1  | 610.3  | 642.8  | 831.9  | 1094.1 | 946.8  | 787.8  | 851.7  | 844.7  |
| 75°   | 4099.2  | 2710.4 | 505.8  | 527.9  | 561.6  | 777.4  | 1065.1 | 895.7  | 751.8  | 782.0  | 782.0  |
| 77.5° | 1562.9  | 1041.9 | 417.7  | 446.7  | 451.3  | 678.8  | 1018.7 | 892.3  | 715.9  | 698.4  | 637.0  |
| 80°   | 541.8   | 407.2  | 345.7  | 355.1  | 349.2  | 603.3  | 976.9  | 776.2  | 585.9  | 524.5  | 507.1  |
| 82.5° | 221.6   | 203.1  | 273.8  | 262.2  | 248.3  | 468.7  | 788.9  | 634.7  | 479.2  | 423.5  | 418.8  |
| 85°   | 96.4    | 128.7  | 181.0  | 159.0  | 143.9  | 324.9  | 632.3  | 537.2  | 405.0  | 349.2  | 348.1  |
| 87.5° | 19.7    | 48.7   | 76.6   | 72.0   | 74.2   | 217.0  | 449.1  | 381.7  | 286.6  | 214.6  | 168.2  |
| 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)