

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: P963059

Luminaire Tested: **NVN-SB2D-750-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P963059  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB2D-750-U-T4FT  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

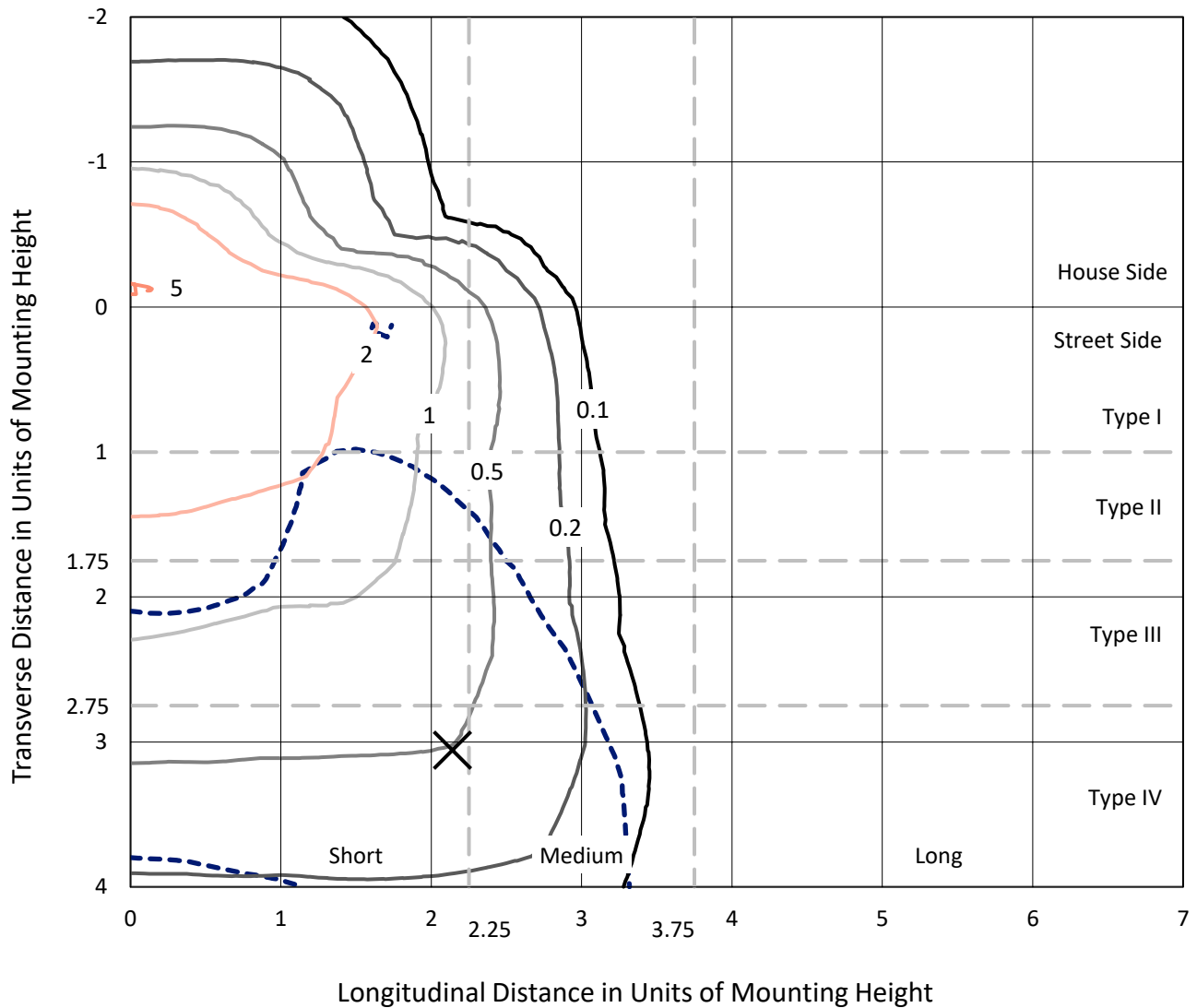
Lumens per Lamp: N/A  
Luminaire Lumens: 21812 lumens  
Efficiency: N/A  
Efficacy: 147.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

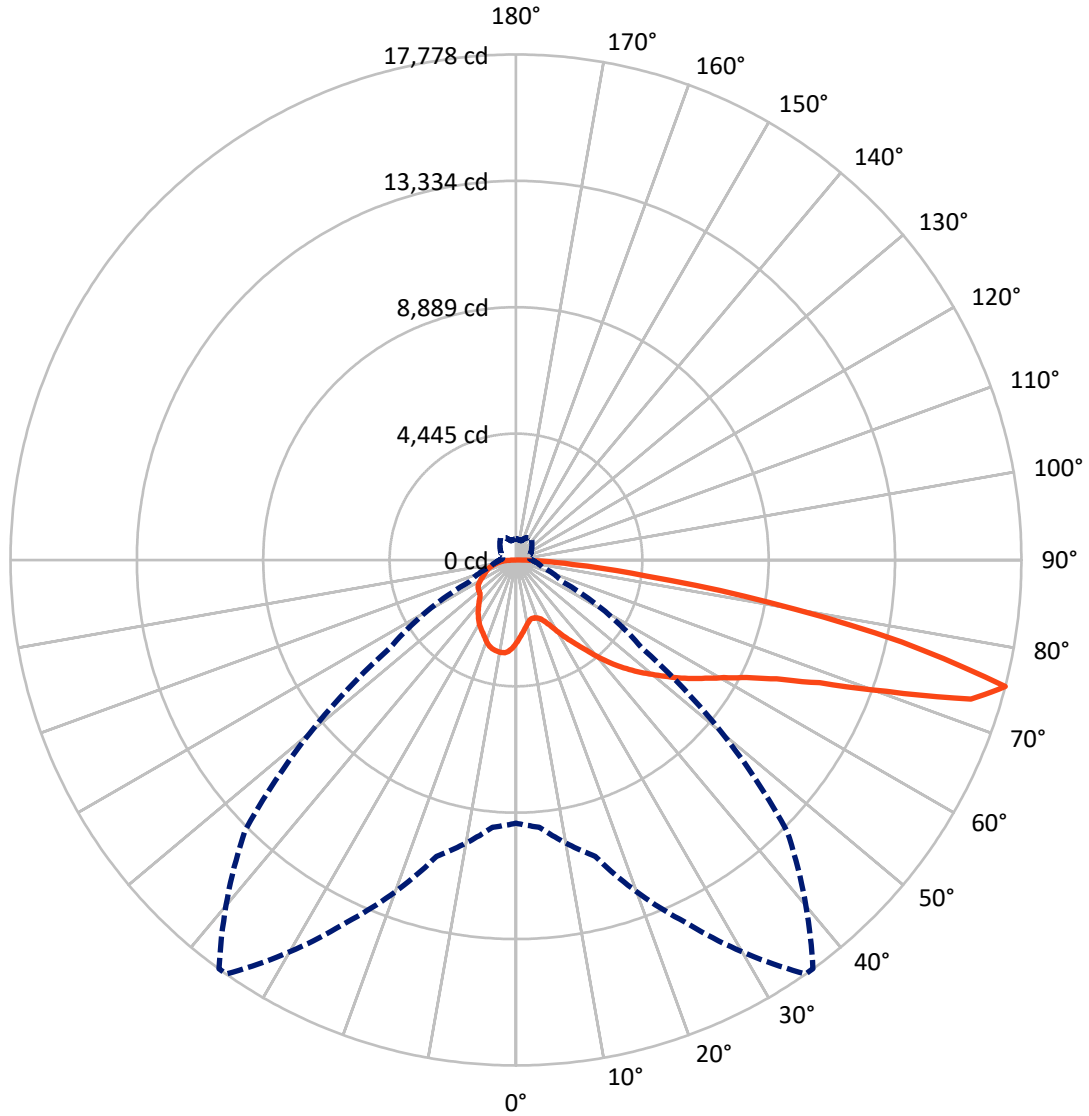
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5190.7   | 0.0    | 5190.7  |
|                    | % Fixture | 23.8     | 0.0    | 23.8    |
| <b>Street Side</b> | Lumens    | 16621.3  | 0.0    | 16621.3 |
|                    | % Fixture | 76.2     | 0.0    | 76.2    |
| <b>Total</b>       | Lumens    | 21812.0  | 0.0    | 21812.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 275.2   | 1.3       |
| 10°-20°   | 793.8   | 3.6       |
| 20°-30°   | 1333.0  | 6.1       |
| 30°-40°   | 2071.6  | 9.5       |
| 40°-50°   | 3074.9  | 14.1      |
| 50°-60°   | 4245.0  | 19.5      |
| 60°-70°   | 5150.2  | 23.6      |
| 70°-80°   | 4256.2  | 19.5      |
| 80°-90°   | 612.2   | 2.8       |
| 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°    | 21812.0 | 100.0     |
| 0°-180°   | 21812.0 | 100.0     |

**Coefficient of Utilization**



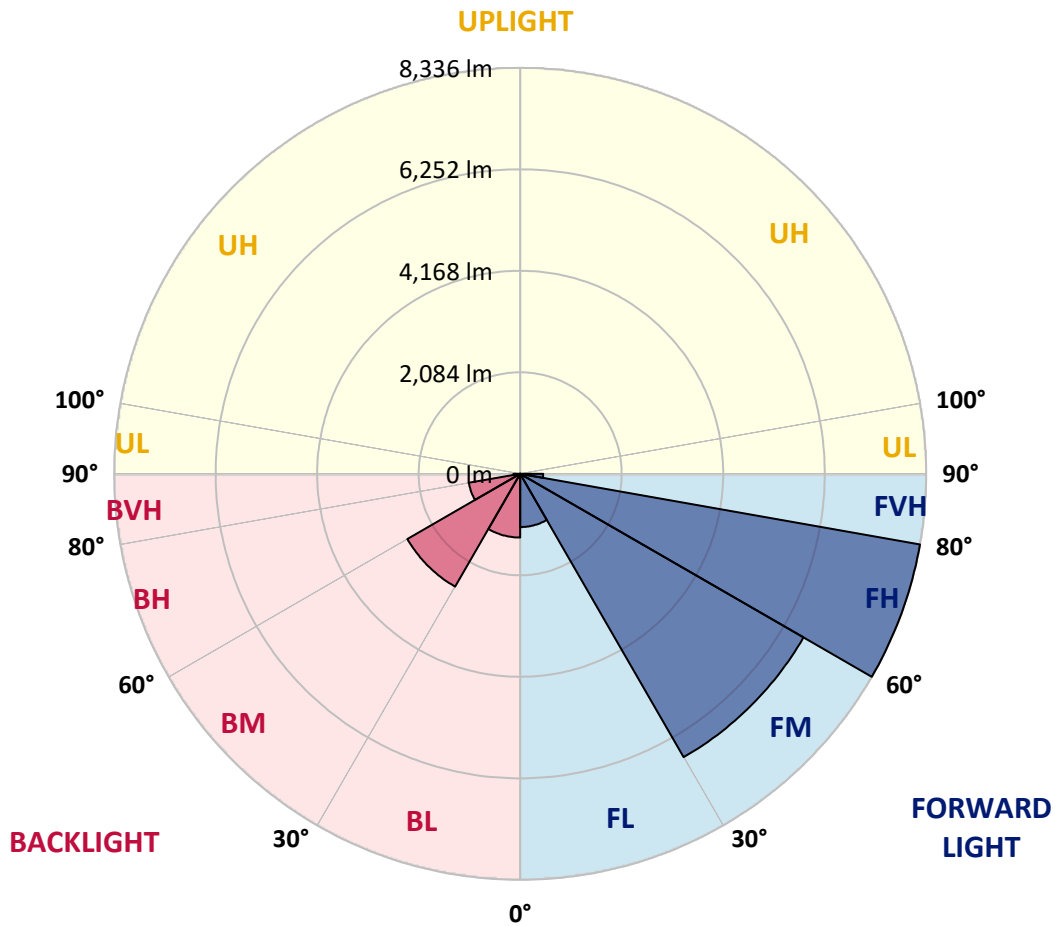
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|--------|-----------|-------------------------|------|----------|
|                |        |           | B                       | U    | G        |
| FL (0°-30°)    | 1093.8 | 5.0       |                         |      |          |
| FM (30°-60°)   | 6716.9 | 30.8      |                         |      |          |
| FH (60°-80°)   | 8336.2 | 38.2      |                         |      | G4/12000 |
| FVH (80°-90°)  | 474.3  | 2.2       |                         |      | G3/500   |
| BL (0°-30°)    | 1308.1 | 6.0       | B3/2500                 |      |          |
| BM (30°-60°)   | 2674.6 | 12.3      | B3/5000                 |      |          |
| BH (60°-80°)   | 1070.2 | 4.9       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 137.8  | 0.6       |                         |      | 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°     | 36°     | 45°     | 55°    | 65°    | 75°    | 85°    |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0°    | 2906.6  | 2906.6  | 2906.6  | 2906.6  | 2906.6  | 2906.6  | 2906.6  | 2906.6 | 2906.6 | 2906.6 | 2906.6 |
| 2.5°  | 2680.2  | 2696.7  | 2703.7  | 2700.3  | 2717.9  | 2715.5  | 2740.3  | 2771.0 | 2813.4 | 2854.7 | 2914.9 |
| 5°    | 2473.8  | 2491.6  | 2506.8  | 2521.0  | 2555.2  | 2565.8  | 2604.7  | 2663.7 | 2741.5 | 2820.5 | 2919.6 |
| 7.5°  | 2281.6  | 2297.0  | 2320.6  | 2346.5  | 2404.2  | 2414.9  | 2479.8  | 2571.7 | 2680.2 | 2795.8 | 2932.5 |
| 10°   | 2124.8  | 2140.2  | 2164.9  | 2194.4  | 2266.3  | 2279.3  | 2361.8  | 2484.5 | 2625.9 | 2772.2 | 2946.7 |
| 12.5° | 2057.6  | 2062.3  | 2076.4  | 2106.0  | 2168.5  | 2176.7  | 2267.5  | 2407.8 | 2572.9 | 2754.5 | 2967.9 |
| 15°   | 2054.1  | 2063.5  | 2064.7  | 2080.0  | 2131.9  | 2135.5  | 2219.1  | 2358.3 | 2539.8 | 2751.0 | 2999.8 |
| 17.5° | 2089.5  | 2096.5  | 2085.9  | 2095.3  | 2139.0  | 2144.9  | 2210.9  | 2334.7 | 2529.3 | 2766.3 | 3054.0 |
| 20°   | 2183.8  | 2189.7  | 2157.8  | 2144.9  | 2176.7  | 2181.4  | 2246.3  | 2350.0 | 2539.8 | 2798.1 | 3128.3 |
| 22.5° | 2384.3  | 2387.7  | 2309.9  | 2256.8  | 2259.2  | 2261.6  | 2318.2  | 2412.5 | 2581.2 | 2855.9 | 3222.6 |
| 25°   | 2696.7  | 2694.3  | 2570.5  | 2468.0  | 2409.0  | 2396.0  | 2433.8  | 2513.9 | 2650.8 | 2932.5 | 3344.1 |
| 27.5° | 3062.3  | 3044.6  | 2920.7  | 2767.5  | 2639.0  | 2620.1  | 2611.8  | 2646.0 | 2749.8 | 3033.9 | 3492.6 |
| 30°   | 3475.0  | 3458.5  | 3325.2  | 3124.7  | 2946.7  | 2916.0  | 2838.2  | 2820.5 | 2897.2 | 3171.9 | 3699.0 |
| 32.5° | 3927.7  | 3917.1  | 3758.0  | 3515.0  | 3276.8  | 3241.5  | 3110.6  | 3063.4 | 3123.6 | 3380.7 | 3986.7 |
| 35°   | 4307.5  | 4298.0  | 4165.9  | 3915.9  | 3624.7  | 3581.0  | 3447.8  | 3394.8 | 3425.4 | 3648.3 | 4362.8 |
| 37.5° | 4650.5  | 4645.8  | 4532.7  | 4335.8  | 4035.0  | 3982.0  | 3832.3  | 3814.5 | 3808.7 | 4000.9 | 4819.1 |
| 40°   | 4968.9  | 4957.1  | 4839.2  | 4735.5  | 4512.6  | 4464.3  | 4332.2  | 4316.9 | 4272.1 | 4434.8 | 5335.6 |
| 42.5° | 5321.5  | 5290.8  | 5119.9  | 5071.5  | 5011.3  | 4971.2  | 4892.3  | 4894.7 | 4795.6 | 4924.1 | 5882.8 |
| 45°   | 5609.2  | 5591.5  | 5415.8  | 5387.5  | 5452.4  | 5435.9  | 5504.2  | 5522.0 | 5329.7 | 5437.0 | 6451.1 |
| 47.5° | 5918.1  | 5901.6  | 5753.0  | 5733.0  | 5908.7  | 5913.4  | 6155.1  | 6161.1 | 5850.9 | 5970.0 | 7020.6 |
| 50°   | 6299.0  | 6275.5  | 6128.1  | 6152.8  | 6349.7  | 6367.4  | 6809.6  | 6769.5 | 6330.8 | 6511.2 | 7585.4 |
| 52.5° | 6550.2  | 6564.3  | 6532.4  | 6572.6  | 6841.4  | 6858.0  | 7453.4  | 7350.8 | 6806.0 | 7045.4 | 8139.6 |
| 55°   | 6735.3  | 6763.6  | 6862.7  | 6954.6  | 7360.2  | 7376.7  | 8060.6  | 7903.8 | 7199.9 | 7540.6 | 8660.8 |
| 57.5° | 6973.5  | 6933.4  | 7118.5  | 7297.7  | 7853.1  | 7896.7  | 8651.4  | 8436.8 | 7548.9 | 7967.5 | 9018.2 |
| 60°   | 7315.4  | 7287.1  | 7430.9  | 7696.3  | 8405.0  | 8474.5  | 9276.4  | 8916.7 | 7804.8 | 8305.9 | 9087.6 |
| 62.5° | 8008.7  | 7938.0  | 7960.5  | 8195.1  | 9100.7  | 9192.6  | 9981.4  | 9335.3 | 7932.2 | 8438.0 | 8715.1 |
| 65°   | 9045.2  | 8923.8  | 8810.6  | 8973.3  | 10080.6 | 10171.3 | 10777.4 | 9664.3 | 7884.9 | 8182.1 | 7725.7 |
| 67.5° | 10350.6 | 10230.3 | 10091.1 | 10244.5 | 11523.8 | 11595.7 | 11759.6 | 9849.4 | 7513.6 | 7196.3 | 5977.1 |
| 70°   | 11427.1 | 11382.3 | 11548.6 | 12179.4 | 13829.0 | 13831.4 | 13018.9 | 9696.1 | 6495.9 | 5102.1 | 3458.5 |
| 72.5° | 11284.4 | 11257.3 | 12133.4 | 14083.7 | 16734.5 | 16671.9 | 14211.1 | 8535.9 | 4375.8 | 2301.7 | 1295.9 |
| 75°   | 9257.5  | 9433.2  | 10790.4 | 14049.6 | 17778.0 | 17769.7 | 13481.2 | 5426.5 | 1809.9 | 954.0  | 669.7  |
| 77.5° | 4964.2  | 5242.5  | 7005.3  | 10373.0 | 13878.6 | 14087.3 | 9478.0  | 1898.4 | 777.1  | 610.8  | 463.4  |
| 80°   | 1619.0  | 1861.9  | 2792.2  | 5281.4  | 9018.2  | 8979.2  | 4062.2  | 745.2  | 531.8  | 432.8  | 320.7  |
| 82.5° | 687.5   | 715.8   | 1247.5  | 2493.9  | 4628.2  | 4556.2  | 1293.6  | 428.0  | 373.8  | 295.9  | 198.1  |
| 85°   | 268.9   | 300.6   | 550.6   | 1153.2  | 2004.6  | 1960.9  | 467.0   | 212.3  | 239.3  | 193.4  | 117.9  |
| 87.5° | 88.5    | 107.3   | 196.9   | 395.0   | 623.8   | 601.4   | 114.4   | 73.1   | 103.7  | 88.5   | 42.4   |
| 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):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2906.6 | 2906.6 | 2906.6 | 2906.6 | 2906.6 | 2906.6 | 2906.6 | 2906.6 | 2906.6 | 2906.6 | 2906.6 |
| 2.5°  | 2931.4 | 2950.3 | 2972.6 | 3005.6 | 3033.9 | 3057.6 | 3082.3 | 3097.7 | 3103.5 | 3121.2 | 3120.0 |
| 5°    | 2952.6 | 2993.8 | 3049.3 | 3103.5 | 3156.6 | 3188.4 | 3216.8 | 3230.9 | 3243.8 | 3253.2 | 3255.6 |
| 7.5°  | 2988.0 | 3041.0 | 3128.3 | 3199.0 | 3243.8 | 3269.7 | 3288.6 | 3283.9 | 3288.6 | 3291.0 | 3294.6 |
| 10°   | 3018.6 | 3092.9 | 3196.7 | 3263.9 | 3298.0 | 3299.3 | 3294.6 | 3278.1 | 3269.7 | 3271.0 | 3273.3 |
| 12.5° | 3055.2 | 3137.7 | 3249.8 | 3306.3 | 3315.8 | 3289.8 | 3269.7 | 3241.5 | 3230.9 | 3226.2 | 3223.8 |
| 15°   | 3104.7 | 3199.0 | 3307.5 | 3328.7 | 3305.1 | 3272.1 | 3238.0 | 3192.0 | 3168.4 | 3149.5 | 3155.4 |
| 17.5° | 3164.8 | 3268.6 | 3352.4 | 3337.0 | 3286.3 | 3232.0 | 3176.6 | 3107.1 | 3058.7 | 3038.6 | 3039.8 |
| 20°   | 3248.5 | 3341.7 | 3386.5 | 3319.3 | 3242.7 | 3160.1 | 3065.8 | 2980.9 | 2936.1 | 2916.0 | 2913.7 |
| 22.5° | 3349.9 | 3439.6 | 3419.5 | 3288.6 | 3180.2 | 3048.1 | 2930.2 | 2867.6 | 2845.3 | 2831.2 | 2833.5 |
| 25°   | 3471.4 | 3548.0 | 3443.1 | 3243.8 | 3077.6 | 2899.5 | 2808.7 | 2788.7 | 2778.1 | 2767.5 | 2767.5 |
| 27.5° | 3629.4 | 3670.7 | 3460.8 | 3177.8 | 2917.3 | 2741.5 | 2708.5 | 2712.0 | 2708.5 | 2690.8 | 2694.3 |
| 30°   | 3838.1 | 3829.9 | 3477.3 | 3070.5 | 2733.3 | 2598.9 | 2601.2 | 2616.5 | 2618.9 | 2607.1 | 2613.0 |
| 32.5° | 4112.8 | 4029.2 | 3485.5 | 2931.4 | 2557.6 | 2473.8 | 2476.2 | 2492.7 | 2504.5 | 2484.5 | 2493.9 |
| 35°   | 4445.4 | 4261.4 | 3472.6 | 2756.8 | 2422.0 | 2354.7 | 2337.1 | 2341.8 | 2345.3 | 2326.4 | 2339.5 |
| 37.5° | 4833.3 | 4522.0 | 3414.8 | 2563.4 | 2309.9 | 2238.0 | 2200.3 | 2168.5 | 2149.6 | 2131.9 | 2143.7 |
| 40°   | 5259.0 | 4806.2 | 3308.7 | 2374.8 | 2185.0 | 2114.2 | 2057.6 | 1997.5 | 1933.8 | 1910.2 | 1920.8 |
| 42.5° | 5704.7 | 5098.7 | 3180.2 | 2194.4 | 2041.1 | 1983.4 | 1923.2 | 1836.0 | 1740.4 | 1692.1 | 1698.0 |
| 45°   | 6166.9 | 5398.2 | 3054.0 | 2016.4 | 1893.7 | 1869.0 | 1799.4 | 1694.4 | 1590.7 | 1529.4 | 1524.7 |
| 47.5° | 6619.8 | 5681.2 | 2868.9 | 1837.1 | 1755.7 | 1782.9 | 1728.7 | 1631.9 | 1516.4 | 1419.7 | 1409.1 |
| 50°   | 7052.5 | 5946.4 | 2565.8 | 1655.5 | 1643.7 | 1757.0 | 1705.1 | 1565.9 | 1433.9 | 1310.1 | 1299.4 |
| 52.5° | 7481.7 | 6161.1 | 2177.9 | 1490.5 | 1583.6 | 1749.9 | 1674.3 | 1521.1 | 1359.6 | 1229.9 | 1215.6 |
| 55°   | 7846.1 | 6271.9 | 1804.1 | 1348.9 | 1496.3 | 1689.7 | 1637.8 | 1468.0 | 1254.6 | 1116.6 | 1104.8 |
| 57.5° | 8053.5 | 6182.3 | 1492.8 | 1209.8 | 1376.1 | 1590.7 | 1575.3 | 1354.8 | 1129.7 | 1023.5 | 1009.3 |
| 60°   | 7963.9 | 5819.1 | 1238.1 | 1088.3 | 1261.7 | 1483.4 | 1466.9 | 1242.8 | 1034.1 | 933.9  | 919.7  |
| 62.5° | 7469.9 | 5126.9 | 1036.5 | 982.3  | 1157.9 | 1373.7 | 1358.3 | 1156.7 | 961.0  | 864.3  | 849.0  |
| 65°   | 6474.7 | 4170.6 | 879.7  | 893.8  | 1053.0 | 1241.7 | 1264.0 | 1084.9 | 903.2  | 808.9  | 793.6  |
| 67.5° | 4938.2 | 3021.0 | 757.0  | 817.1  | 950.4  | 1111.9 | 1176.8 | 1032.9 | 854.8  | 765.3  | 751.1  |
| 70°   | 2814.6 | 1715.6 | 653.2  | 742.8  | 859.6  | 991.7  | 1109.6 | 991.7  | 803.0  | 728.7  | 719.2  |
| 72.5° | 1067.1 | 787.7  | 564.8  | 668.6  | 772.3  | 890.2  | 1035.2 | 926.8  | 742.8  | 687.5  | 678.0  |
| 75°   | 569.5  | 479.9  | 475.2  | 581.3  | 672.1  | 791.2  | 942.2  | 863.2  | 698.0  | 726.3  | 749.9  |
| 77.5° | 388.0  | 339.6  | 397.4  | 497.6  | 562.4  | 681.5  | 843.1  | 766.5  | 604.9  | 602.5  | 555.3  |
| 80°   | 268.9  | 240.6  | 323.1  | 400.9  | 435.1  | 573.1  | 735.7  | 657.9  | 492.9  | 459.9  | 439.8  |
| 82.5° | 161.5  | 156.8  | 241.7  | 299.5  | 307.8  | 442.2  | 609.7  | 551.9  | 403.2  | 351.4  | 353.7  |
| 85°   | 88.5   | 93.2   | 154.5  | 175.7  | 179.3  | 308.9  | 477.5  | 426.8  | 310.2  | 260.6  | 262.9  |
| 87.5° | 24.8   | 31.9   | 56.6   | 69.6   | 86.1   | 160.4  | 284.1  | 253.5  | 155.7  | 108.4  | 108.4  |
| 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)