

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: P884438

Luminaire Tested: **NVN-SB5B-730-U-T3-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P884438  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB5B-730-U-T3-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22060 lumens  
Efficiency: N/A  
Efficacy: 120.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 182.7  
Input Voltage (V): 120.0  
Input Current (Ain): 1.547  
Voltage Rise (V): NR  
Power Factor: 0.992  
Total Harmonic Distortion (THDi): 11.125  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

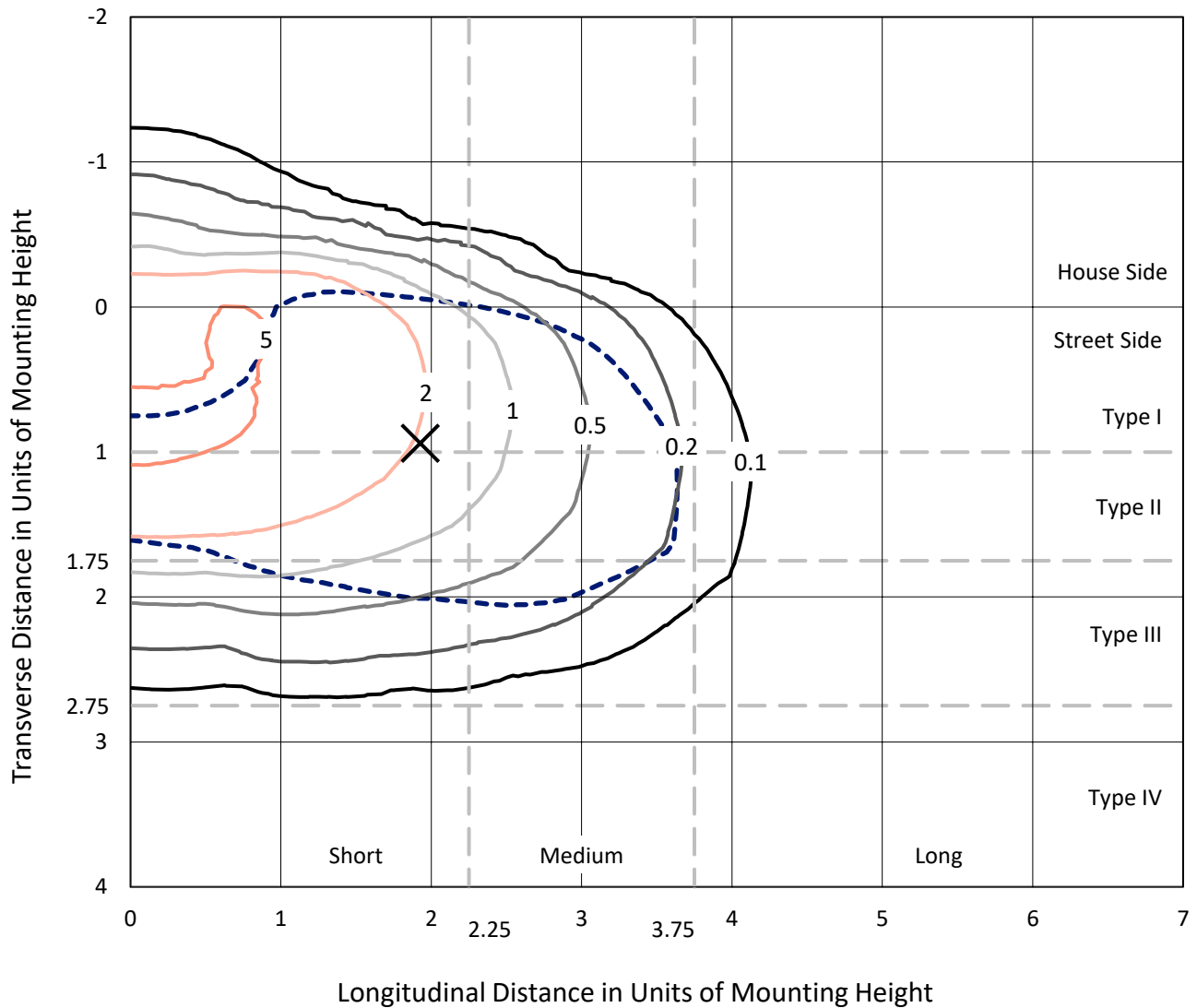


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### Iso-Footcandle Lines of Horizontal Illumination

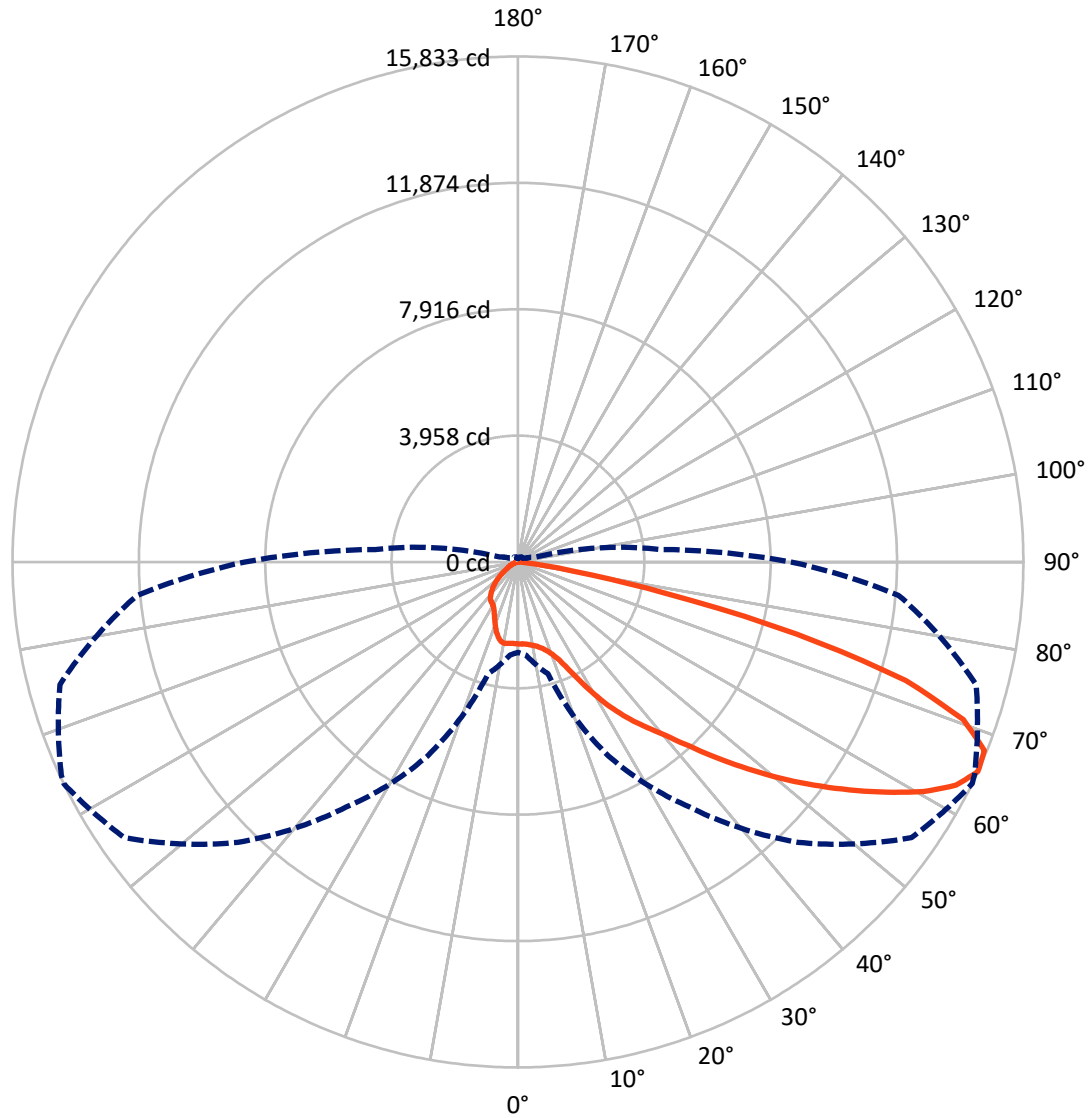
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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    | 2950.1   | 0.0    | 2950.1  |
|                    | % Fixture | 13.4     | 0.0    | 13.4    |
| <b>Street Side</b> | Lumens    | 19109.9  | 0.0    | 19109.9 |
|                    | % Fixture | 86.6     | 0.0    | 86.6    |
| <b>Total</b>       | Lumens    | 22060.0  | 0.0    | 22060.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 236.7   | 1.1       |
| 10°-20°   | 642.1   | 2.9       |
| 20°-30°   | 1216.6  | 5.5       |
| 30°-40°   | 2461.9  | 11.2      |
| 40°-50°   | 4193.9  | 19.0      |
| 50°-60°   | 5703.4  | 25.9      |
| 60°-70°   | 5355.7  | 24.3      |
| 70°-80°   | 2145.7  | 9.7       |
| 80°-90°   | 104.0   | 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°    | 22060.0 | 100.0     |
| 0°-180°   | 22060.0 | 100.0     |

**Coefficient of Utilization**



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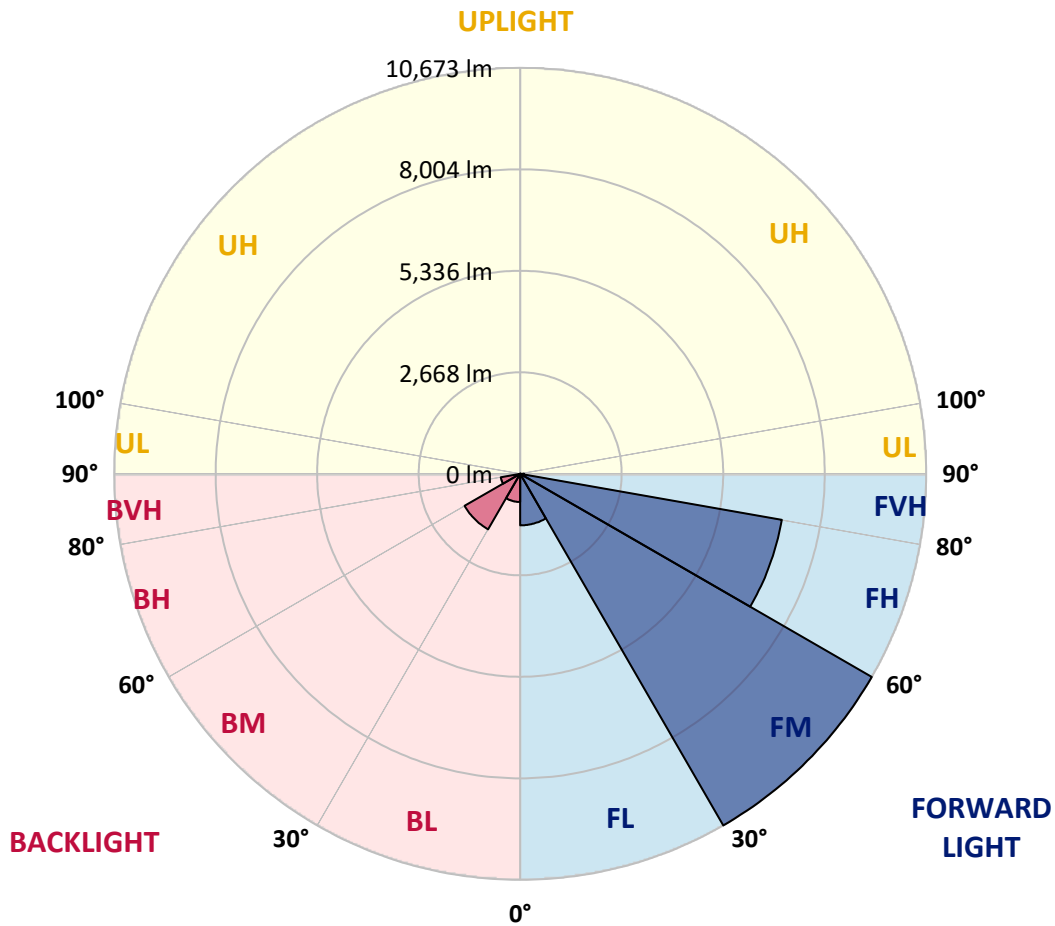
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 1354.7  | 6.1       |                         |      |         |
| FM (30°-60°)   | 10672.6 | 48.4      |                         |      |         |
| FH (60°-80°)   | 6983.7  | 31.7      |                         |      | G3/7500 |
| FVH (80°-90°)  | 98.9    | 0.4       |                         |      | G1/100  |
| BL (0°-30°)    | 740.7   | 3.4       | B2/1000                 |      |         |
| BM (30°-60°)   | 1686.5  | 7.6       | B2/2500                 |      |         |
| BH (60°-80°)   | 517.8   | 2.3       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 5.1     | 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°    | 2565.8  | 2565.8  | 2565.8  | 2565.8  | 2565.8  | 2565.8  | 2565.8  | 2565.8  | 2565.8  | 2565.8  | 2565.8  |
| 2.5°  | 2556.9  | 2574.7  | 2570.2  | 2565.8  | 2564.3  | 2567.3  | 2568.8  | 2567.3  | 2567.3  | 2567.3  | 2568.8  |
| 5°    | 2508.1  | 2522.9  | 2522.9  | 2533.3  | 2548.1  | 2565.8  | 2579.1  | 2582.1  | 2585.0  | 2589.5  | 2588.0  |
| 7.5°  | 2415.0  | 2426.8  | 2435.7  | 2469.7  | 2506.7  | 2554.0  | 2593.9  | 2614.6  | 2617.6  | 2633.8  | 2639.7  |
| 10°   | 2351.4  | 2366.2  | 2381.0  | 2416.4  | 2469.7  | 2540.7  | 2608.7  | 2659.0  | 2666.4  | 2704.8  | 2722.6  |
| 12.5° | 2348.4  | 2363.2  | 2382.4  | 2420.9  | 2483.0  | 2558.4  | 2641.2  | 2713.7  | 2727.0  | 2783.2  | 2820.2  |
| 15°   | 2379.5  | 2397.2  | 2415.0  | 2462.3  | 2528.8  | 2620.5  | 2709.3  | 2799.5  | 2812.8  | 2892.6  | 2932.6  |
| 17.5° | 2443.1  | 2466.7  | 2480.0  | 2527.4  | 2598.3  | 2700.4  | 2817.2  | 2920.7  | 2932.6  | 3025.7  | 3076.0  |
| 20°   | 2568.8  | 2596.9  | 2601.3  | 2639.7  | 2709.3  | 2818.7  | 2957.7  | 3086.4  | 3101.2  | 3207.6  | 3263.8  |
| 22.5° | 2829.0  | 2869.0  | 2833.5  | 2852.7  | 2914.8  | 3024.3  | 3175.1  | 3337.8  | 3358.5  | 3479.7  | 3530.0  |
| 25°   | 3287.5  | 3343.7  | 3252.0  | 3219.5  | 3246.1  | 3360.0  | 3549.2  | 3754.8  | 3778.5  | 3876.1  | 3901.2  |
| 27.5° | 4188.1  | 4115.6  | 3976.6  | 3840.6  | 3760.7  | 3825.8  | 4038.7  | 4293.1  | 4322.7  | 4417.3  | 4387.8  |
| 30°   | 5177.5  | 5113.9  | 4926.1  | 4624.4  | 4435.1  | 4424.7  | 4621.4  | 4905.3  | 4939.4  | 5029.6  | 4939.4  |
| 32.5° | 6168.3  | 6107.7  | 5903.6  | 5532.4  | 5204.1  | 5041.4  | 5177.5  | 5492.5  | 5510.2  | 5567.9  | 5434.8  |
| 35°   | 7142.9  | 7080.7  | 6876.7  | 6496.6  | 6092.9  | 5723.2  | 5696.5  | 6051.5  | 6057.4  | 6118.0  | 5919.8  |
| 37.5° | 8123.3  | 8071.6  | 7854.2  | 7481.5  | 7083.7  | 6573.5  | 6326.5  | 6580.9  | 6588.3  | 6647.4  | 6441.9  |
| 40°   | 8822.8  | 8845.0  | 8695.6  | 8407.3  | 8065.7  | 7508.1  | 7033.4  | 7144.3  | 7100.0  | 7199.0  | 7076.3  |
| 42.5° | 9423.2  | 9467.6  | 9337.5  | 9192.5  | 8994.4  | 8503.4  | 7908.9  | 7889.7  | 7818.7  | 7871.9  | 7744.7  |
| 45°   | 9942.3  | 9979.3  | 9862.5  | 9828.4  | 9824.0  | 9479.4  | 8865.7  | 8750.4  | 8651.3  | 8640.9  | 8488.6  |
| 47.5° | 10133.1 | 10204.1 | 10254.4 | 10368.2 | 10590.1 | 10445.1 | 9855.1  | 9676.1  | 9565.2  | 9483.9  | 9242.8  |
| 50°   | 10205.6 | 10281.0 | 10452.5 | 10783.8 | 11308.8 | 11370.9 | 10840.0 | 10638.9 | 10502.8 | 10354.9 | 10000.0 |
| 52.5° | 10107.9 | 10242.5 | 10473.2 | 11030.8 | 11792.4 | 12113.3 | 11785.0 | 11609.0 | 11453.7 | 11212.7 | 10686.2 |
| 55°   | 9532.7  | 9667.3  | 10139.0 | 11027.8 | 12033.4 | 12633.8 | 12678.2 | 12599.8 | 12425.3 | 12045.2 | 11240.7 |
| 57.5° | 8320.0  | 8519.7  | 9266.5  | 10652.2 | 12029.0 | 13081.9 | 13553.7 | 13609.9 | 13414.7 | 12870.4 | 11677.0 |
| 60°   | 6640.0  | 6910.7  | 7821.6  | 9819.6  | 11657.8 | 13324.5 | 14321.2 | 14602.2 | 14395.1 | 13683.8 | 12030.5 |
| 62.5° | 4633.2  | 4946.8  | 5808.9  | 8515.2  | 10808.9 | 13149.9 | 14881.7 | 15400.8 | 15244.0 | 14411.4 | 12166.5 |
| 65°   | 2826.1  | 2926.6  | 3621.7  | 6700.7  | 9365.6  | 12419.4 | 15054.7 | 15832.6 | 15780.8 | 14856.5 | 11965.4 |
| 67.5° | 1882.6  | 1966.9  | 2166.5  | 4594.8  | 7270.0  | 10959.8 | 14640.6 | 15757.2 | 15771.9 | 14784.1 | 11228.9 |
| 70°   | 1134.3  | 1206.7  | 1336.9  | 2672.3  | 4711.6  | 8674.9  | 13358.5 | 14795.9 | 14881.7 | 13815.4 | 9832.9  |
| 72.5° | 467.3   | 516.1   | 634.4   | 1211.2  | 2440.1  | 5505.8  | 10637.4 | 12703.3 | 12903.0 | 11616.4 | 7546.6  |
| 75°   | 264.7   | 289.9   | 372.7   | 607.8   | 1058.9  | 2565.8  | 6443.4  | 9018.0  | 9312.3  | 8006.5  | 4540.1  |
| 77.5° | 176.0   | 187.8   | 241.1   | 393.4   | 596.0   | 875.5   | 2753.6  | 4698.3  | 5260.3  | 4373.0  | 1965.4  |
| 80°   | 118.3   | 128.7   | 165.6   | 263.2   | 387.5   | 375.6   | 877.0   | 1740.6  | 2141.4  | 1502.5  | 479.1   |
| 82.5° | 79.9    | 81.3    | 118.3   | 173.0   | 245.5   | 181.9   | 258.8   | 541.3   | 680.3   | 434.8   | 181.9   |
| 85°   | 45.8    | 44.4    | 87.3    | 100.6   | 109.4   | 75.4    | 78.4    | 162.7   | 213.0   | 183.4   | 103.5   |
| 87.5° | 5.9     | 8.9     | 34.0    | 26.6    | 14.8    | 16.3    | 16.3    | 28.1    | 41.4    | 44.4    | 22.2    |
| 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°    | 2565.8 | 2565.8 | 2565.8 | 2565.8 | 2565.8 | 2565.8 | 2565.8 | 2565.8 | 2565.8 | 2565.8 | 2565.8 |
| 2.5°  | 2568.8 | 2567.3 | 2562.8 | 2558.4 | 2548.1 | 2542.1 | 2545.1 | 2542.1 | 2540.7 | 2542.1 | 2548.1 |
| 5°    | 2588.0 | 2583.6 | 2571.7 | 2556.9 | 2536.2 | 2511.1 | 2494.8 | 2471.2 | 2449.0 | 2435.7 | 2438.6 |
| 7.5°  | 2639.7 | 2635.3 | 2619.0 | 2577.6 | 2511.1 | 2406.1 | 2310.0 | 2225.7 | 2162.1 | 2125.1 | 2126.6 |
| 10°   | 2722.6 | 2715.2 | 2690.0 | 2598.3 | 2423.8 | 2194.6 | 2003.8 | 1845.6 | 1742.1 | 1693.3 | 1688.8 |
| 12.5° | 2820.2 | 2811.3 | 2766.9 | 2579.1 | 2258.2 | 1900.3 | 1637.1 | 1461.1 | 1365.0 | 1322.1 | 1317.7 |
| 15°   | 2935.5 | 2923.7 | 2836.4 | 2487.4 | 2017.2 | 1575.0 | 1333.9 | 1202.3 | 1140.2 | 1101.7 | 1103.2 |
| 17.5° | 3079.0 | 3058.3 | 2888.2 | 2349.9 | 1755.4 | 1326.5 | 1147.6 | 1048.5 | 993.8  | 956.8  | 953.9  |
| 20°   | 3265.3 | 3231.3 | 2929.6 | 2185.7 | 1514.3 | 1169.8 | 1021.9 | 939.1  | 897.7  | 865.1  | 859.2  |
| 22.5° | 3525.6 | 3476.8 | 2979.9 | 2008.3 | 1344.3 | 1061.8 | 928.7  | 868.1  | 834.1  | 797.1  | 791.2  |
| 25°   | 3848.0 | 3790.3 | 3042.0 | 1844.1 | 1227.4 | 968.6  | 860.7  | 810.4  | 770.5  | 727.6  | 723.2  |
| 27.5° | 4299.0 | 4195.5 | 3115.9 | 1709.6 | 1126.9 | 888.8  | 798.6  | 742.4  | 696.5  | 661.0  | 653.7  |
| 30°   | 4801.8 | 4631.8 | 3181.0 | 1628.2 | 1035.2 | 814.8  | 717.2  | 661.0  | 618.2  | 593.0  | 588.6  |
| 32.5° | 5278.0 | 5047.3 | 3223.9 | 1592.7 | 952.4  | 730.6  | 628.5  | 567.9  | 535.3  | 527.9  | 532.4  |
| 35°   | 5727.6 | 5422.9 | 3219.5 | 1558.7 | 878.4  | 646.3  | 541.3  | 479.1  | 454.0  | 458.4  | 458.4  |
| 37.5° | 6245.2 | 5823.7 | 3188.4 | 1505.5 | 817.8  | 569.4  | 465.8  | 411.1  | 388.9  | 390.4  | 396.3  |
| 40°   | 6847.1 | 6286.6 | 3169.2 | 1404.9 | 751.3  | 498.4  | 403.7  | 359.4  | 343.1  | 337.2  | 335.7  |
| 42.5° | 7488.9 | 6734.7 | 3172.1 | 1291.0 | 668.4  | 434.8  | 360.8  | 323.9  | 309.1  | 304.6  | 303.2  |
| 45°   | 8133.7 | 7162.1 | 3176.6 | 1172.7 | 581.2  | 386.0  | 329.8  | 298.7  | 289.9  | 283.9  | 283.9  |
| 47.5° | 8740.0 | 7525.9 | 3093.8 | 1045.5 | 495.4  | 349.0  | 304.6  | 283.9  | 276.5  | 269.2  | 269.2  |
| 50°   | 9304.9 | 7768.4 | 2894.1 | 897.7  | 427.4  | 319.4  | 285.4  | 270.6  | 263.2  | 255.8  | 255.8  |
| 52.5° | 9744.2 | 7806.9 | 2564.3 | 745.3  | 380.1  | 297.2  | 273.6  | 260.3  | 251.4  | 244.0  | 242.5  |
| 55°   | 9939.4 | 7565.8 | 2095.5 | 603.4  | 343.1  | 278.0  | 261.8  | 248.4  | 238.1  | 230.7  | 229.2  |
| 57.5° | 9889.1 | 7058.6 | 1634.1 | 485.1  | 307.6  | 258.8  | 247.0  | 238.1  | 226.3  | 214.4  | 213.0  |
| 60°   | 9642.1 | 6379.8 | 1231.9 | 403.7  | 275.1  | 238.1  | 230.7  | 223.3  | 207.0  | 189.3  | 186.3  |
| 62.5° | 9214.7 | 5526.5 | 878.4  | 334.2  | 239.6  | 214.4  | 211.5  | 205.6  | 181.9  | 149.4  | 146.4  |
| 65°   | 8561.1 | 4489.8 | 591.5  | 278.0  | 205.6  | 187.8  | 189.3  | 178.9  | 147.9  | 110.9  | 108.0  |
| 67.5° | 7605.7 | 3283.0 | 378.6  | 227.7  | 171.5  | 156.8  | 158.2  | 152.3  | 125.7  | 94.6   | 90.2   |
| 70°   | 6388.6 | 2173.9 | 247.0  | 173.0  | 137.5  | 121.3  | 130.1  | 131.6  | 106.5  | 76.9   | 73.9   |
| 72.5° | 4683.5 | 1283.6 | 173.0  | 128.7  | 100.6  | 84.3   | 106.5  | 109.4  | 85.8   | 57.7   | 54.7   |
| 75°   | 2669.3 | 609.3  | 130.1  | 93.2   | 62.1   | 59.2   | 82.8   | 82.8   | 59.2   | 38.5   | 35.5   |
| 77.5° | 1121.0 | 254.4  | 91.7   | 60.6   | 35.5   | 34.0   | 56.2   | 51.8   | 29.6   | 17.7   | 17.7   |
| 80°   | 323.9  | 113.9  | 48.8   | 29.6   | 14.8   | 13.3   | 22.2   | 16.3   | 7.4    | 3.0    | 3.0    |
| 82.5° | 127.2  | 50.3   | 19.2   | 11.8   | 5.9    | 5.9    | 3.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 75.4   | 20.7   | 8.9    | 4.4    | 1.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 19.2   | 4.4    | 3.0    | 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)