

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: P966864

Luminaire Tested: **NVN-SB4C-835-U-T2U-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P966864  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB4C-835-U-T2U-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 21807.9 lumens  
Efficiency: N/A  
Efficacy: 108.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 200.7  
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

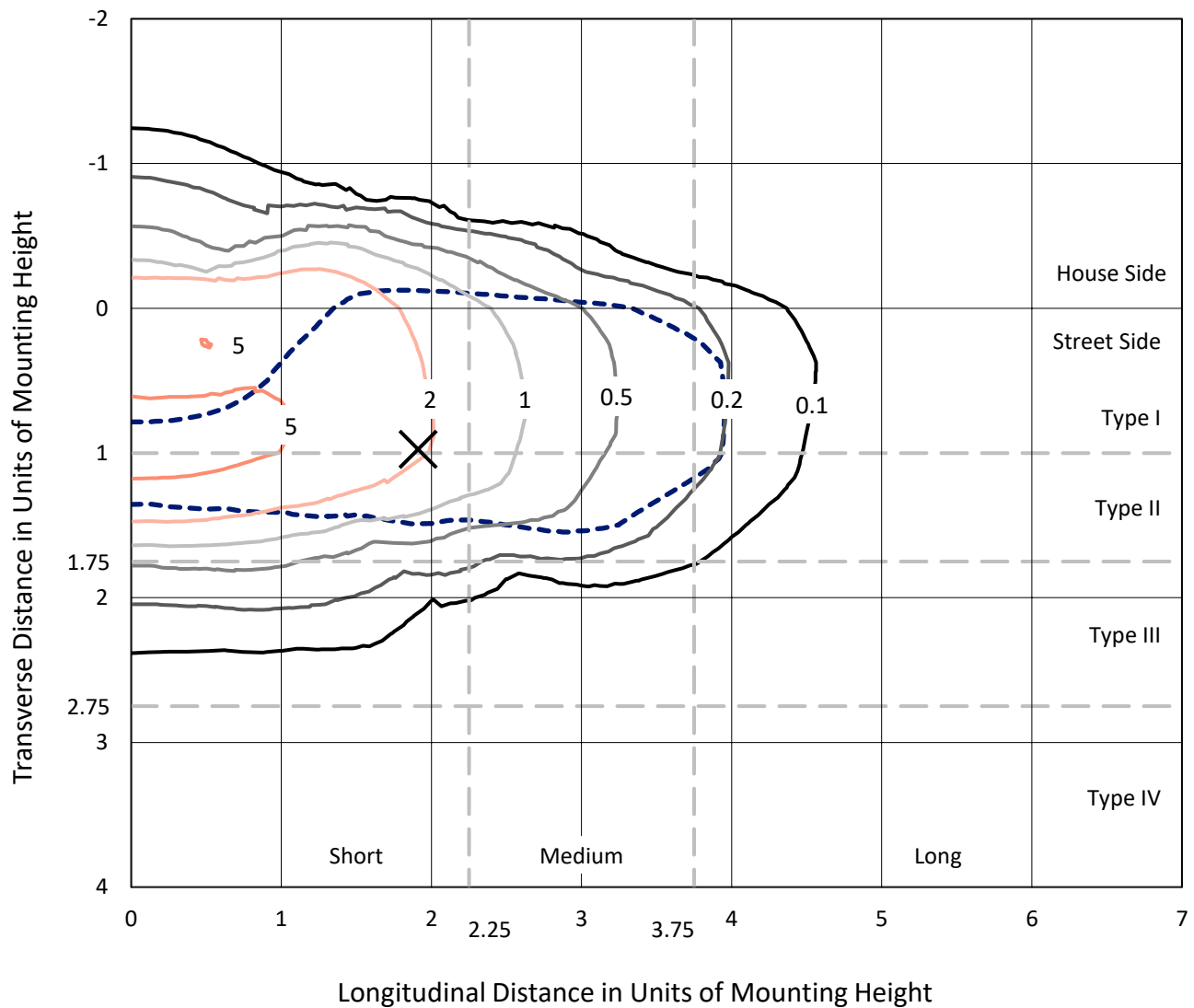


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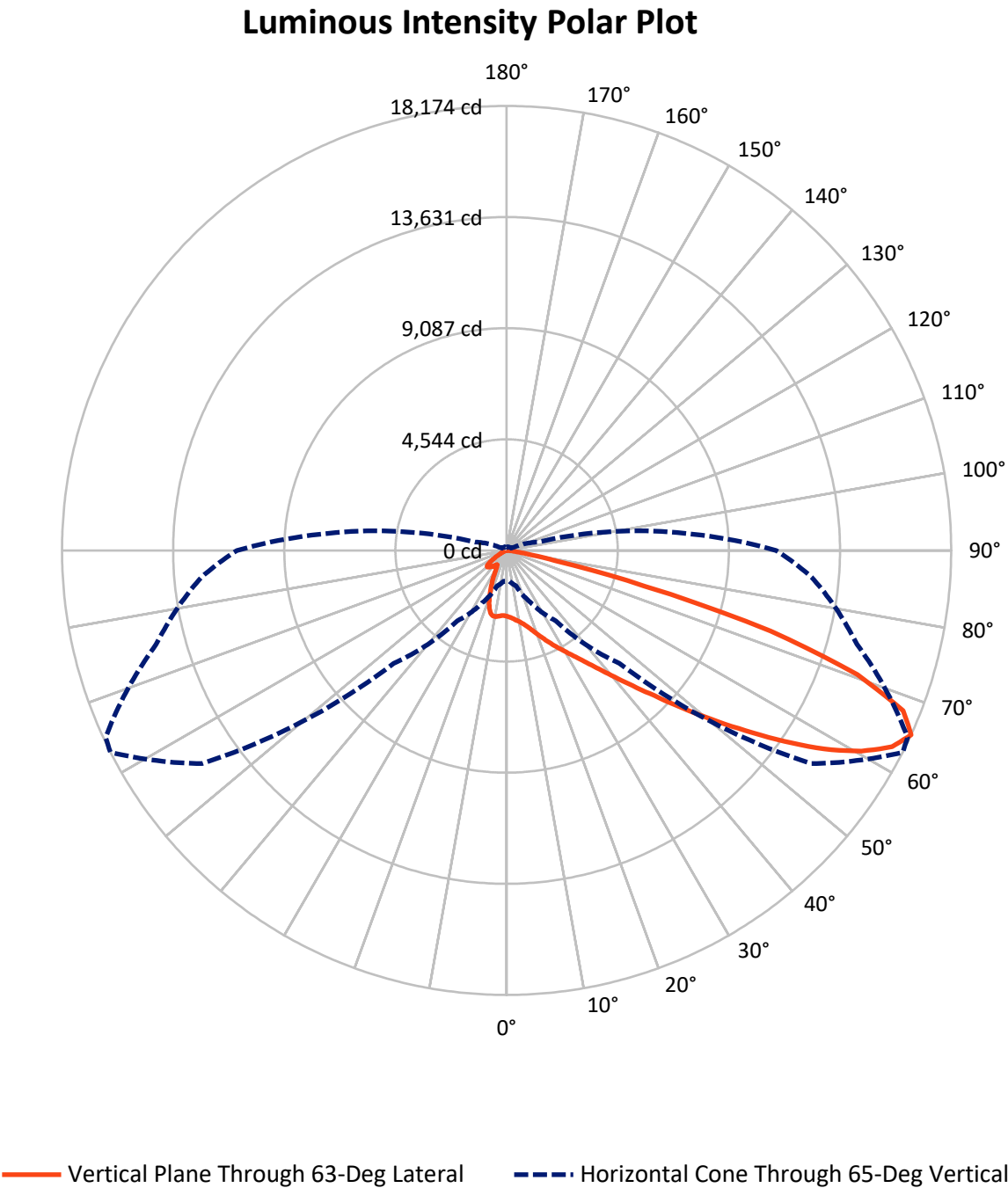
## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc  
Type II - Short - N/A

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3205.6   | 0.0    | 3205.6  |
|                    | % Fixture | 14.7     | 0.0    | 14.7    |
| <b>Street Side</b> | Lumens    | 18602.3  | 0.0    | 18602.3 |
|                    | % Fixture | 85.3     | 0.0    | 85.3    |
| <b>Total</b>       | Lumens    | 21807.9  | 0.0    | 21807.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 253.6   | 1.2       |
| 10°-20°   | 703.6   | 3.2       |
| 20°-30°   | 1225.2  | 5.6       |
| 30°-40°   | 2208.3  | 10.1      |
| 40°-50°   | 4379.7  | 20.1      |
| 50°-60°   | 5965.9  | 27.4      |
| 60°-70°   | 4761.9  | 21.8      |
| 70°-80°   | 2154.9  | 9.9       |
| 80°-90°   | 154.9   | 0.7       |
| 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°    | 21807.9 | 100.0     |
| 0°-180°   | 21807.9 | 100.0     |

**Coefficient of Utilization**



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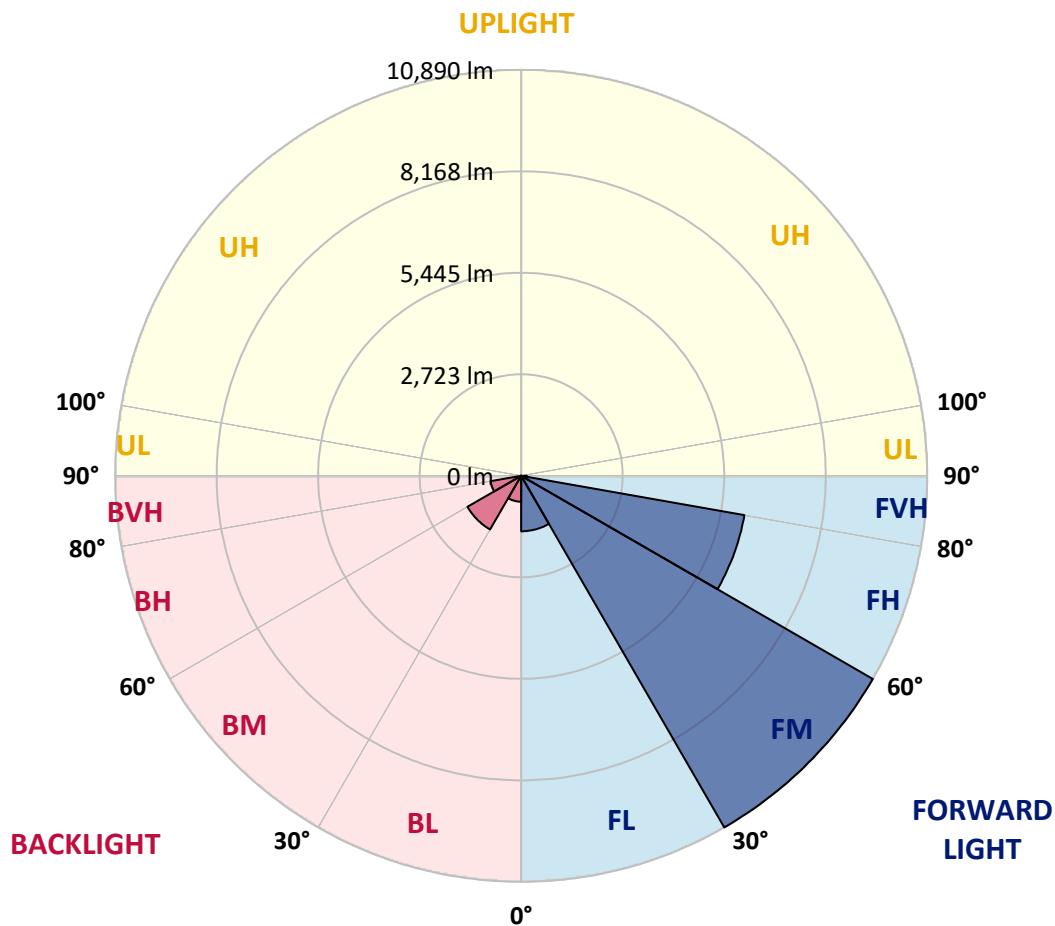
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1488.7  | 6.8       |                         |      |         |
| FM   | (30°-60°)   | 10890.3 | 49.9      |                         |      |         |
| FH   | (60°-80°)   | 6079.9  | 27.9      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 143.4   | 0.7       |                         |      | G2/225  |
| BL   | (0°-30°)    | 693.7   | 3.2       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1663.5  | 7.6       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 836.8   | 3.8       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 11.5    | 0.1       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

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

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 63°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2691.5  | 2691.5  | 2691.5  | 2691.5  | 2691.5  | 2691.5  | 2691.5  | 2691.5  | 2691.5  | 2691.5  | 2691.5  |
| 2.5°  | 2754.5  | 2747.0  | 2757.6  | 2753.0  | 2750.0  | 2744.0  | 2741.1  | 2738.0  | 2732.0  | 2727.5  | 2709.5  |
| 5°    | 2762.1  | 2757.6  | 2768.0  | 2777.0  | 2786.1  | 2795.1  | 2799.5  | 2805.5  | 2799.5  | 2787.5  | 2769.5  |
| 7.5°  | 2699.0  | 2696.1  | 2718.5  | 2745.6  | 2786.1  | 2820.5  | 2858.0  | 2879.0  | 2880.6  | 2876.0  | 2856.6  |
| 10°   | 2694.5  | 2687.0  | 2709.5  | 2742.5  | 2795.1  | 2856.6  | 2922.6  | 2967.6  | 2973.5  | 2993.1  | 2972.1  |
| 12.5° | 2765.0  | 2757.6  | 2789.0  | 2825.0  | 2879.0  | 2943.6  | 3024.6  | 3087.6  | 3096.6  | 3123.6  | 3108.6  |
| 15°   | 2883.5  | 2873.1  | 2909.1  | 2955.6  | 3024.6  | 3098.1  | 3183.6  | 3240.6  | 3248.1  | 3281.1  | 3254.1  |
| 17.5° | 3021.6  | 3011.0  | 3053.1  | 3102.6  | 3177.6  | 3278.2  | 3377.2  | 3440.1  | 3449.1  | 3470.1  | 3420.6  |
| 20°   | 3198.6  | 3185.1  | 3218.1  | 3263.1  | 3342.6  | 3462.7  | 3581.1  | 3671.2  | 3669.7  | 3669.7  | 3588.6  |
| 22.5° | 3404.1  | 3383.1  | 3411.6  | 3447.7  | 3522.6  | 3668.2  | 3825.7  | 3932.2  | 3932.2  | 3890.2  | 3756.7  |
| 25°   | 3624.7  | 3603.7  | 3635.2  | 3668.2  | 3734.2  | 3899.2  | 4083.8  | 4215.8  | 4221.8  | 4149.8  | 3936.7  |
| 27.5° | 3900.7  | 3873.7  | 3897.8  | 3936.7  | 3975.8  | 4143.8  | 4362.8  | 4515.8  | 4518.8  | 4407.8  | 4107.8  |
| 30°   | 4431.8  | 4355.3  | 4280.3  | 4238.3  | 4256.3  | 4422.9  | 4656.9  | 4826.4  | 4841.4  | 4688.3  | 4293.8  |
| 32.5° | 5404.0  | 5389.0  | 5125.0  | 4779.9  | 4599.9  | 4722.9  | 4985.4  | 5189.5  | 5198.5  | 5001.9  | 4535.3  |
| 35°   | 6914.8  | 6896.8  | 6472.3  | 5815.1  | 5228.5  | 5125.0  | 5384.5  | 5626.0  | 5620.1  | 5398.1  | 4848.9  |
| 37.5° | 8718.1  | 8701.6  | 8142.0  | 7262.8  | 6313.2  | 5732.6  | 5899.1  | 6152.7  | 6190.2  | 5899.1  | 5253.9  |
| 40°   | 10258.9 | 10197.4 | 9843.4  | 8995.7  | 7753.5  | 6740.8  | 6631.2  | 6799.2  | 6838.3  | 6493.3  | 5768.6  |
| 42.5° | 11426.2 | 11373.6 | 11193.6 | 10664.0 | 9496.8  | 8232.1  | 7493.9  | 7558.5  | 7601.9  | 7187.8  | 6359.7  |
| 45°   | 12030.7 | 12018.7 | 12090.8 | 12041.3 | 11273.2 | 10062.4 | 8727.2  | 8458.6  | 8475.1  | 7957.5  | 7030.4  |
| 47.5° | 12116.3 | 12110.3 | 12438.9 | 12903.9 | 12800.4 | 12126.8 | 10310.0 | 9580.8  | 9522.2  | 8826.2  | 7759.5  |
| 50°   | 11612.2 | 11600.2 | 12230.3 | 13102.0 | 13820.6 | 13861.1 | 12107.3 | 10845.5 | 10716.5 | 9724.8  | 8520.1  |
| 52.5° | 10002.4 | 9999.4  | 11034.5 | 12485.3 | 14179.1 | 15379.4 | 13883.6 | 12234.8 | 12018.7 | 10676.0 | 9324.2  |
| 55°   | 7696.4  | 7752.0  | 8938.7  | 10653.5 | 13525.1 | 16110.0 | 15478.4 | 13777.1 | 13445.5 | 11633.2 | 10065.4 |
| 57.5° | 5452.1  | 5533.1  | 6706.3  | 8233.5  | 11496.7 | 15678.0 | 16557.1 | 15322.4 | 14965.3 | 12587.4 | 10817.0 |
| 60°   | 2928.5  | 3000.6  | 4175.3  | 5998.1  | 8553.1  | 14066.7 | 17125.7 | 16663.6 | 16326.1 | 13493.5 | 11495.2 |
| 62.5° | 1744.9  | 1768.8  | 2254.9  | 3872.2  | 5785.1  | 10746.5 | 16884.2 | 17685.4 | 17407.8 | 14254.2 | 12084.7 |
| 65°   | 1252.8  | 1257.3  | 1501.8  | 2364.5  | 3512.2  | 6529.2  | 15190.4 | 18174.4 | 18088.9 | 14827.3 | 12521.4 |
| 67.5° | 1054.7  | 1051.6  | 1153.7  | 1570.8  | 2393.0  | 3270.6  | 11642.2 | 17482.8 | 17845.9 | 15190.4 | 12768.9 |
| 70°   | 904.7   | 909.2   | 1029.2  | 1150.8  | 1798.9  | 1851.4  | 5788.1  | 15221.9 | 15996.0 | 15286.3 | 12753.9 |
| 72.5° | 673.6   | 688.6   | 799.6   | 1048.7  | 1357.7  | 1273.8  | 1998.3  | 11286.6 | 12686.4 | 14402.7 | 12092.2 |
| 75°   | 475.6   | 483.1   | 562.6   | 882.1   | 1012.7  | 927.2   | 1020.2  | 5834.6  | 7629.0  | 11042.1 | 9897.4  |
| 77.5° | 366.0   | 379.6   | 426.1   | 616.6   | 997.7   | 651.1   | 624.1   | 2019.4  | 3102.6  | 6670.3  | 6785.8  |
| 80°   | 198.0   | 222.0   | 307.6   | 445.6   | 700.6   | 460.6   | 309.0   | 804.1   | 1051.6  | 3119.1  | 2616.5  |
| 82.5° | 102.0   | 114.0   | 214.5   | 321.0   | 399.0   | 402.1   | 153.0   | 334.6   | 433.6   | 963.2   | 358.5   |
| 85°   | 40.5    | 49.5    | 144.0   | 177.0   | 205.5   | 198.0   | 69.0    | 135.0   | 156.0   | 267.0   | 109.5   |
| 87.5° | 9.0     | 15.0    | 52.5    | 40.5    | 39.1    | 42.0    | 16.5    | 31.5    | 30.0    | 31.5    | 19.5    |
| 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°    | 2691.5  | 2691.5 | 2691.5 | 2691.5 | 2691.5 | 2691.5 | 2691.5 | 2691.5 | 2691.5 | 2691.5 | 2691.5 |
| 2.5°  | 2708.0  | 2702.0 | 2685.5 | 2667.5 | 2646.4 | 2634.5 | 2627.0 | 2625.5 | 2615.0 | 2607.5 | 2615.0 |
| 5°    | 2753.0  | 2747.0 | 2715.5 | 2678.0 | 2637.5 | 2606.0 | 2576.0 | 2549.0 | 2510.0 | 2502.4 | 2499.5 |
| 7.5°  | 2843.0  | 2826.5 | 2775.5 | 2724.6 | 2648.0 | 2556.5 | 2445.4 | 2317.9 | 2204.0 | 2169.4 | 2152.9 |
| 10°   | 2954.0  | 2931.6 | 2867.0 | 2777.0 | 2607.5 | 2358.4 | 2089.9 | 1840.8 | 1642.8 | 1587.3 | 1566.3 |
| 12.5° | 3080.1  | 3060.5 | 2975.1 | 2808.5 | 2438.0 | 1986.3 | 1575.3 | 1266.3 | 1074.2 | 1026.2 | 1012.7 |
| 15°   | 3230.1  | 3201.6 | 3083.1 | 2760.5 | 2134.9 | 1509.3 | 1081.7 | 898.7  | 829.6  | 820.6  | 811.7  |
| 17.5° | 3389.2  | 3342.6 | 3179.1 | 2588.0 | 1726.8 | 1072.7 | 835.7  | 783.1  | 753.2  | 744.2  | 739.6  |
| 20°   | 3534.7  | 3474.6 | 3236.1 | 2327.0 | 1290.3 | 835.7  | 748.7  | 714.1  | 687.2  | 676.6  | 670.7  |
| 22.5° | 3680.2  | 3594.7 | 3236.1 | 1971.4 | 967.7  | 741.2  | 687.2  | 655.6  | 624.1  | 610.6  | 603.1  |
| 25°   | 3831.8  | 3717.7 | 3179.1 | 1575.3 | 778.7  | 679.7  | 628.6  | 594.1  | 567.1  | 550.6  | 544.6  |
| 27.5° | 3978.7  | 3821.2 | 3048.6 | 1200.3 | 693.1  | 625.7  | 574.6  | 541.6  | 516.1  | 504.1  | 504.1  |
| 30°   | 4118.2  | 3923.3 | 2865.5 | 910.7  | 637.7  | 573.1  | 525.1  | 496.6  | 471.1  | 459.1  | 460.6  |
| 32.5° | 4307.4  | 4052.2 | 2670.5 | 747.1  | 589.6  | 523.6  | 480.1  | 453.0  | 430.6  | 421.6  | 421.6  |
| 35°   | 4569.9  | 4242.8 | 2502.4 | 733.6  | 549.1  | 483.1  | 439.6  | 414.1  | 391.5  | 384.1  | 384.1  |
| 37.5° | 4941.9  | 4550.4 | 2414.0 | 823.7  | 516.1  | 447.1  | 406.6  | 379.6  | 358.5  | 352.6  | 351.1  |
| 40°   | 5401.0  | 4967.5 | 2461.9 | 913.7  | 493.6  | 415.5  | 376.6  | 349.5  | 331.6  | 324.1  | 322.6  |
| 42.5° | 5945.6  | 5482.0 | 2727.5 | 982.7  | 478.6  | 388.6  | 348.1  | 318.1  | 306.1  | 303.1  | 303.1  |
| 45°   | 6571.3  | 6047.6 | 3134.0 | 1056.2 | 454.6  | 363.1  | 319.6  | 297.0  | 288.0  | 286.6  | 285.1  |
| 47.5° | 7282.4  | 6668.8 | 3605.1 | 1147.7 | 430.6  | 339.1  | 297.0  | 282.1  | 274.6  | 271.5  | 271.5  |
| 50°   | 7987.5  | 7294.4 | 4089.7 | 1198.7 | 411.1  | 316.5  | 279.0  | 267.0  | 261.1  | 259.5  | 259.5  |
| 52.5° | 8725.6  | 7938.0 | 4481.3 | 1150.8 | 394.6  | 298.6  | 264.0  | 255.0  | 249.1  | 247.5  | 247.5  |
| 55°   | 9429.3  | 8458.6 | 4548.8 | 976.7  | 361.5  | 280.5  | 247.5  | 243.0  | 235.5  | 235.5  | 234.0  |
| 57.5° | 10035.4 | 8719.7 | 4071.8 | 717.1  | 328.5  | 253.6  | 231.0  | 226.5  | 220.6  | 219.0  | 217.5  |
| 60°   | 10592.0 | 8644.6 | 3143.1 | 483.1  | 292.5  | 226.5  | 210.0  | 207.0  | 201.0  | 193.5  | 192.1  |
| 62.5° | 10905.6 | 8314.6 | 2149.9 | 315.1  | 256.6  | 198.0  | 186.0  | 184.5  | 171.1  | 156.0  | 153.0  |
| 65°   | 11024.1 | 7636.5 | 1341.2 | 229.5  | 214.5  | 169.5  | 160.5  | 157.5  | 138.1  | 121.6  | 120.0  |
| 67.5° | 10920.6 | 6520.2 | 676.6  | 181.5  | 169.5  | 141.0  | 132.0  | 132.0  | 118.5  | 103.5  | 102.0  |
| 70°   | 10506.5 | 4887.9 | 285.1  | 145.5  | 130.5  | 108.0  | 108.0  | 114.0  | 100.6  | 84.0   | 82.5   |
| 72.5° | 9607.8  | 3288.6 | 151.5  | 111.0  | 97.5   | 76.5   | 88.6   | 93.0   | 79.5   | 63.0   | 63.0   |
| 75°   | 7637.9  | 2005.9 | 105.1  | 82.5   | 61.5   | 54.0   | 67.5   | 70.5   | 54.0   | 42.0   | 40.5   |
| 77.5° | 5224.0  | 1152.2 | 70.5   | 52.5   | 39.1   | 31.5   | 46.5   | 43.5   | 28.5   | 19.5   | 21.0   |
| 80°   | 2294.0  | 480.1  | 40.5   | 24.0   | 15.0   | 12.0   | 16.5   | 12.0   | 9.0    | 6.0    | 6.0    |
| 82.5° | 268.5   | 112.5  | 15.0   | 9.0    | 6.0    | 3.0    | 1.5    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 55.6    | 13.5   | 7.5    | 3.0    | 1.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 10.5    | 3.0    | 1.5    | 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)