

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: P966623

Luminaire Tested: **NVN-SB4C-727-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P966623  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB4C-727-U-T4FT-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21606 lumens  
Efficiency: N/A  
Efficacy: 107.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

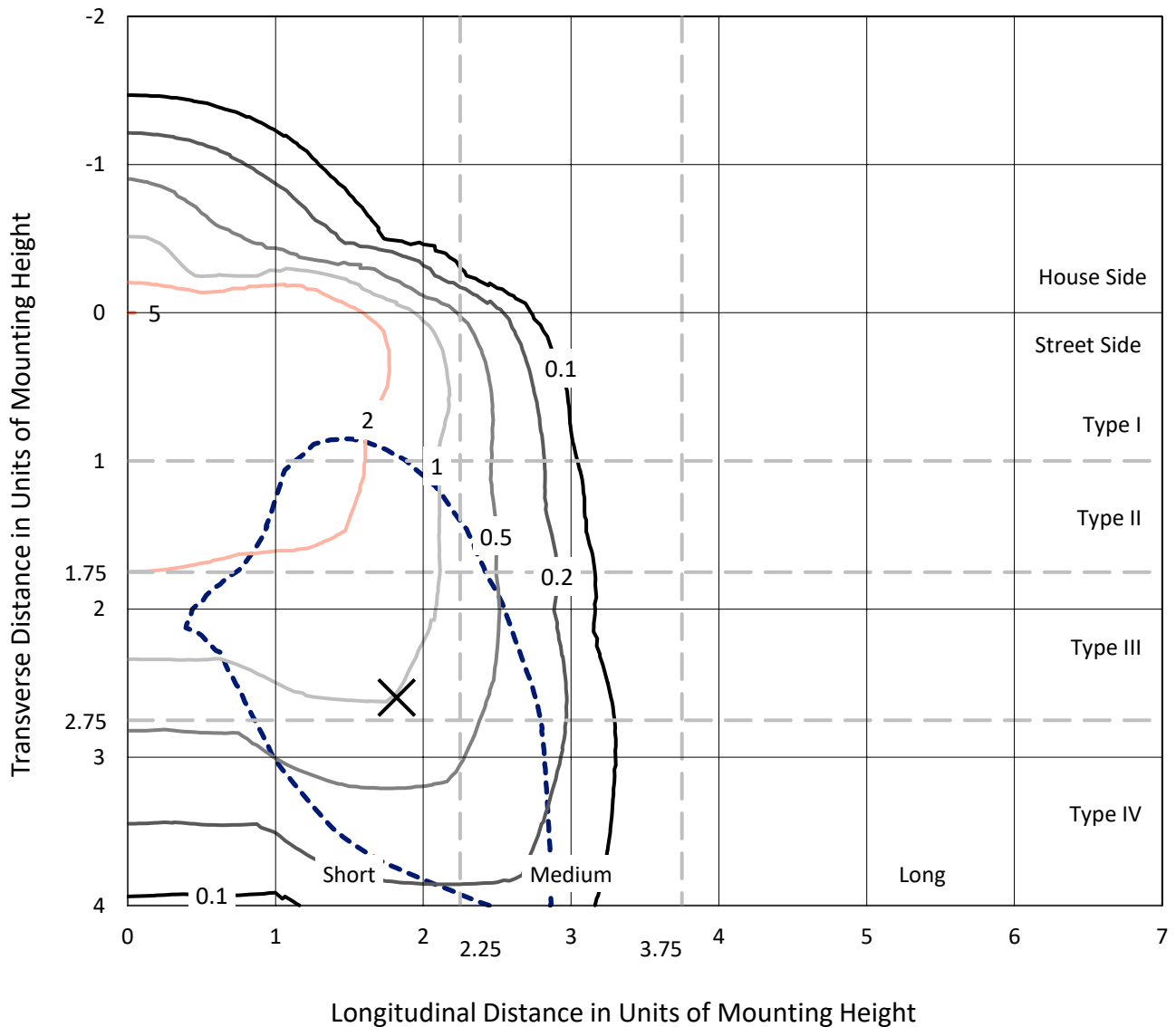
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

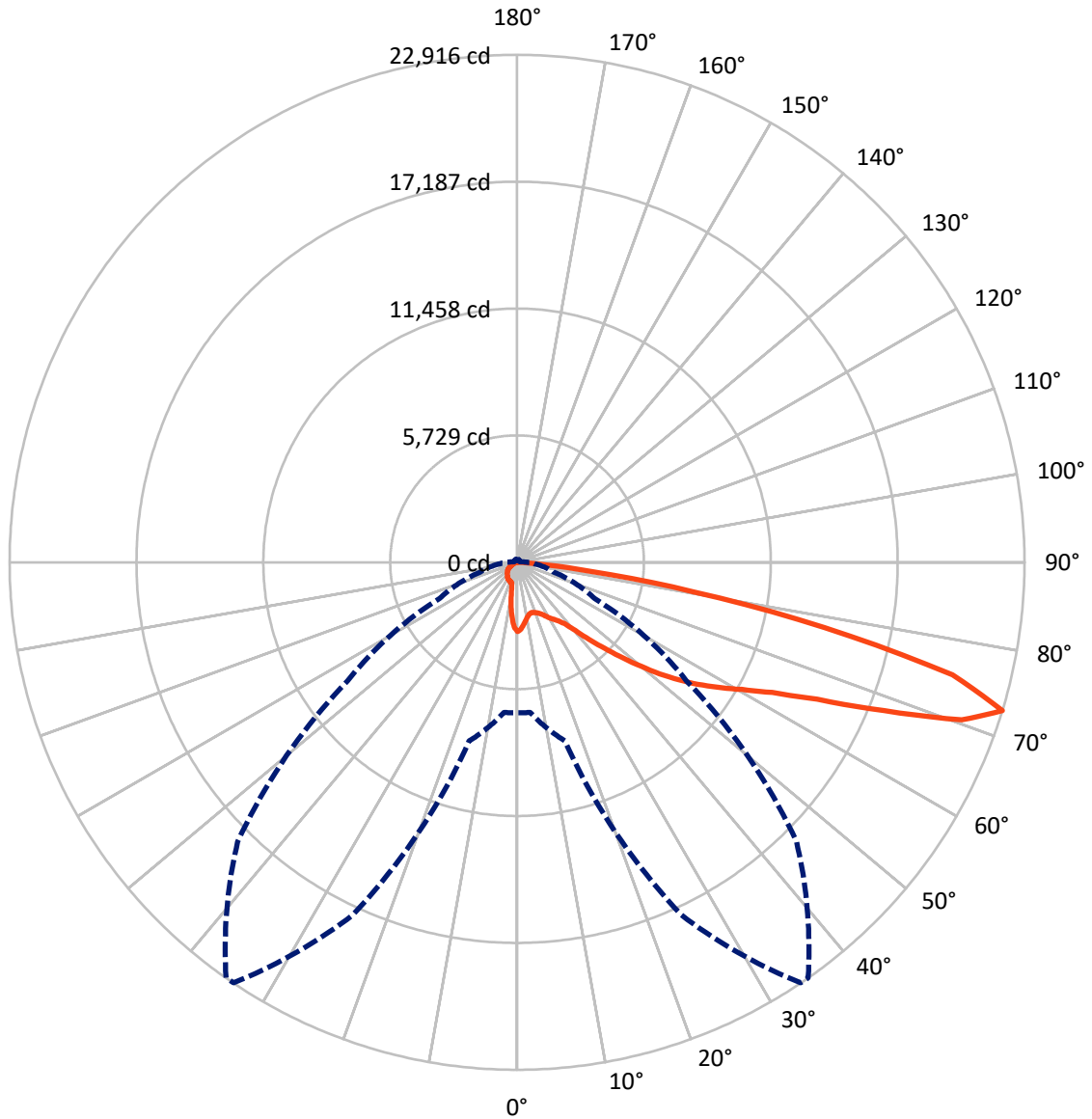
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2431.6   | 0.0    | 2431.6  |
|                    | % Fixture | 11.3     | 0.0    | 11.3    |
| <b>Street Side</b> | Lumens    | 19174.3  | 0.0    | 19174.3 |
|                    | % Fixture | 88.7     | 0.0    | 88.7    |
| <b>Total</b>       | Lumens    | 21606.0  | 0.0    | 21606.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 257.3   | 1.2       |
| 10°-20°   | 602.0   | 2.8       |
| 20°-30°   | 977.9   | 4.5       |
| 30°-40°   | 1631.6  | 7.6       |
| 40°-50°   | 3087.0  | 14.3      |
| 50°-60°   | 4905.2  | 22.7      |
| 60°-70°   | 6068.1  | 28.1      |
| 70°-80°   | 3772.0  | 17.5      |
| 80°-90°   | 304.8   | 1.4       |
| 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°    | 21606.0 | 100.0     |
| 0°-180°   | 21606.0 | 100.0     |

**Coefficient of Utilization**

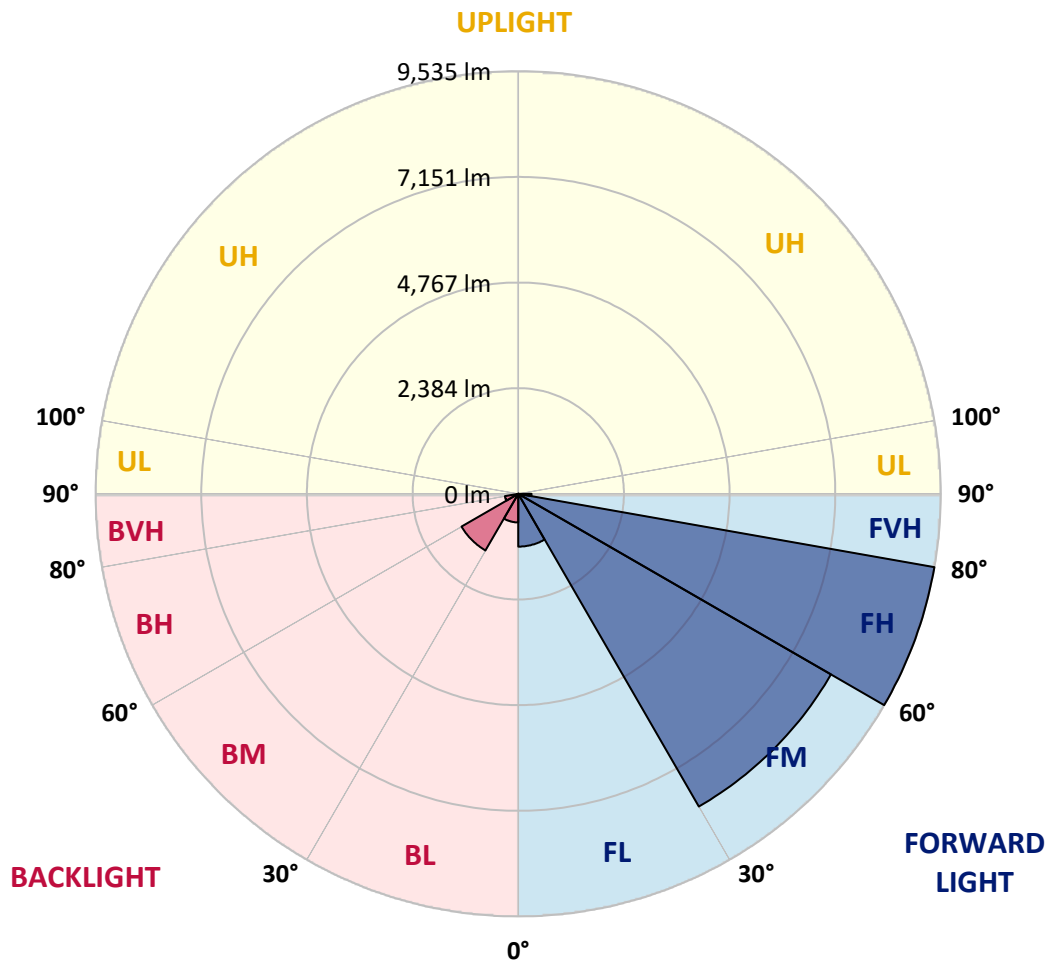


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|--------|-----------|-------------------------|------|----------|
|                |        |           | B                       | U    | G        |
| FL (0°-30°)    | 1191.0 | 5.5       |                         |      |          |
| FM (30°-60°)   | 8147.6 | 37.7      |                         |      |          |
| FH (60°-80°)   | 9535.0 | 44.1      |                         |      | G4/12000 |
| FVH (80°-90°)  | 300.7  | 1.4       |                         |      | G3/500   |
| BL (0°-30°)    | 646.1  | 3.0       | B2/1000                 |      |          |
| BM (30°-60°)   | 1476.2 | 6.8       | B2/2500                 |      |          |
| BH (60°-80°)   | 305.1  | 1.4       | B1/500                  |      | G1/500   |
| BVH (80°-90°)  | 4.1    | 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-G4**  
 Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 34°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3131.5  | 3131.5  | 3131.5  | 3131.5  | 3131.5  | 3131.5  | 3131.5  | 3131.5  | 3131.5  | 3131.5  | 3131.5  |
| 2.5°  | 2992.1  | 3017.4  | 3022.2  | 3030.1  | 3030.1  | 3039.6  | 3055.4  | 3077.6  | 3114.1  | 3133.0  | 3145.7  |
| 5°    | 2757.8  | 2776.8  | 2800.5  | 2819.6  | 2856.0  | 2860.7  | 2922.5  | 2982.6  | 3066.5  | 3129.8  | 3174.2  |
| 7.5°  | 2521.9  | 2544.0  | 2575.7  | 2621.6  | 2669.2  | 2683.4  | 2776.8  | 2878.1  | 3011.1  | 3129.8  | 3204.3  |
| 10°   | 2355.7  | 2357.3  | 2385.8  | 2431.7  | 2507.7  | 2525.1  | 2639.1  | 2783.2  | 2949.3  | 3110.9  | 3232.7  |
| 12.5° | 2262.3  | 2273.3  | 2286.1  | 2320.9  | 2393.7  | 2404.8  | 2526.6  | 2696.1  | 2887.6  | 3099.8  | 3266.0  |
| 15°   | 2262.3  | 2270.2  | 2278.2  | 2295.5  | 2354.1  | 2363.6  | 2471.3  | 2640.7  | 2856.0  | 3104.5  | 3319.9  |
| 17.5° | 2286.1  | 2298.7  | 2292.4  | 2312.9  | 2374.7  | 2381.1  | 2476.0  | 2624.8  | 2854.4  | 3134.6  | 3402.2  |
| 20°   | 2343.0  | 2352.6  | 2339.9  | 2352.6  | 2414.3  | 2426.9  | 2525.1  | 2655.0  | 2881.3  | 3186.8  | 3505.1  |
| 22.5° | 2433.2  | 2438.1  | 2407.9  | 2417.5  | 2480.8  | 2496.6  | 2610.6  | 2740.4  | 2946.2  | 3270.8  | 3642.7  |
| 25°   | 2547.2  | 2556.8  | 2510.8  | 2521.9  | 2582.1  | 2601.0  | 2732.4  | 2868.7  | 3049.1  | 3386.3  | 3818.5  |
| 27.5° | 2678.6  | 2683.4  | 2643.8  | 2642.2  | 2719.8  | 2746.7  | 2879.7  | 3026.9  | 3186.8  | 3531.9  | 4040.1  |
| 30°   | 2829.1  | 2843.4  | 2805.3  | 2799.0  | 2897.2  | 2919.3  | 3050.7  | 3221.7  | 3389.5  | 3750.5  | 4355.2  |
| 32.5° | 2947.8  | 2958.9  | 2936.7  | 2952.5  | 3052.2  | 3069.7  | 3258.1  | 3497.1  | 3707.7  | 4060.7  | 4784.2  |
| 35°   | 3118.8  | 3125.1  | 3074.5  | 3103.0  | 3217.0  | 3261.2  | 3541.5  | 3883.4  | 4108.2  | 4450.1  | 5344.7  |
| 37.5° | 3737.8  | 3737.8  | 3522.4  | 3381.6  | 3490.8  | 3530.4  | 3929.3  | 4369.5  | 4602.1  | 4972.6  | 6050.7  |
| 40°   | 4594.3  | 4580.0  | 4264.9  | 3976.8  | 3962.5  | 4040.1  | 4481.8  | 4982.1  | 5240.1  | 5599.6  | 6845.5  |
| 42.5° | 5507.7  | 5485.6  | 5056.5  | 4771.6  | 4724.0  | 4751.0  | 5119.9  | 5737.2  | 6000.0  | 6364.2  | 7700.3  |
| 45°   | 6318.3  | 6312.0  | 5919.3  | 5536.2  | 5450.7  | 5536.2  | 5916.2  | 6620.7  | 6809.1  | 7192.1  | 8553.6  |
| 47.5° | 6997.5  | 6997.5  | 6710.9  | 6460.8  | 6416.4  | 6467.1  | 6994.3  | 7600.6  | 7583.2  | 8073.9  | 9384.8  |
| 50°   | 7779.5  | 7773.2  | 7500.8  | 7393.2  | 7439.1  | 7510.4  | 8235.5  | 8632.8  | 8384.3  | 8939.9  | 10127.3 |
| 52.5° | 8327.3  | 8365.2  | 8271.9  | 8254.4  | 8488.7  | 8612.3  | 9495.6  | 9642.9  | 9101.4  | 9761.6  | 10683.0 |
| 55°   | 8761.1  | 8805.4  | 8913.0  | 9035.0  | 9486.1  | 9647.6  | 10716.2 | 10600.7 | 9701.4  | 10474.0 | 11002.8 |
| 57.5° | 9375.3  | 9311.9  | 9478.2  | 9718.8  | 10448.6 | 10643.4 | 11898.8 | 11504.6 | 10184.3 | 11051.9 | 11037.6 |
| 60°   | 10121.0 | 10130.5 | 10159.0 | 10462.9 | 11409.6 | 11659.8 | 13064.0 | 12359.4 | 10494.6 | 11406.4 | 10651.3 |
| 62.5° | 11017.0 | 11031.3 | 11089.8 | 11556.9 | 12699.9 | 12935.7 | 14305.2 | 13059.2 | 10637.0 | 11306.7 | 9654.0  |
| 65°   | 10955.3 | 11015.4 | 11669.2 | 13266.6 | 14661.4 | 14894.1 | 15753.7 | 13550.0 | 10421.8 | 10394.8 | 7860.2  |
| 67.5° | 9980.0  | 10078.2 | 11172.2 | 15308.9 | 17618.6 | 17878.3 | 17504.6 | 13646.5 | 9492.4  | 8083.5  | 5127.8  |
| 70°   | 8700.9  | 8735.7  | 10051.3 | 17145.3 | 21042.9 | 21305.8 | 19072.0 | 12584.3 | 7203.3  | 4508.8  | 2297.1  |
| 72.5° | 6794.8  | 6802.7  | 8346.3  | 17571.2 | 22901.6 | 22915.8 | 17841.9 | 9342.1  | 3873.9  | 1731.9  | 797.9   |
| 75°   | 4853.9  | 4806.4  | 5590.0  | 14249.8 | 20148.5 | 20310.0 | 13375.8 | 4382.1  | 1480.2  | 818.5   | 397.4   |
| 77.5° | 2602.7  | 2655.0  | 3163.0  | 8450.7  | 13918.9 | 14194.3 | 7298.2  | 1263.3  | 753.6   | 557.3   | 262.8   |
| 80°   | 804.2   | 848.6   | 1296.6  | 3869.2  | 7884.0  | 8050.2  | 2705.6  | 562.0   | 525.6   | 397.4   | 172.6   |
| 82.5° | 253.3   | 262.8   | 604.8   | 1625.9  | 3272.3  | 3348.4  | 783.6   | 318.2   | 359.4   | 262.8   | 101.3   |
| 85°   | 72.8    | 74.4    | 269.2   | 606.3   | 808.9   | 824.8   | 220.1   | 123.5   | 205.8   | 163.1   | 52.3    |
| 87.5° | 7.9     | 25.3    | 101.3   | 101.3   | 71.2    | 69.7    | 23.8    | 27.0    | 58.5    | 20.6    | 9.5     |
| 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°    | 3131.5 | 3131.5 | 3131.5 | 3131.5 | 3131.5 | 3131.5 | 3131.5 | 3131.5 | 3131.5 | 3131.5 | 3131.5 |
| 2.5°  | 3137.7 | 3139.4 | 3118.8 | 3083.9 | 3045.9 | 3014.3 | 2974.7 | 2943.1 | 2920.8 | 2914.6 | 2925.7 |
| 5°    | 3160.0 | 3148.8 | 3090.3 | 2984.2 | 2857.6 | 2748.3 | 2626.5 | 2529.8 | 2466.6 | 2439.6 | 2449.1 |
| 7.5°  | 3193.2 | 3161.5 | 3033.3 | 2824.3 | 2582.1 | 2366.8 | 2148.3 | 1978.9 | 1871.2 | 1817.4 | 1825.3 |
| 10°   | 3221.7 | 3158.3 | 2938.3 | 2593.1 | 2222.7 | 1896.6 | 1602.2 | 1397.9 | 1283.9 | 1230.1 | 1231.6 |
| 12.5° | 3248.5 | 3156.8 | 2814.9 | 2319.3 | 1817.4 | 1418.5 | 1144.6 | 1043.2 | 1011.6 | 1000.5 | 997.3  |
| 15°   | 3299.3 | 3161.5 | 2659.7 | 2005.8 | 1413.8 | 1071.7 | 972.0  | 970.5  | 976.8  | 973.6  | 972.0  |
| 17.5° | 3368.9 | 3166.2 | 2483.9 | 1673.4 | 1090.8 | 945.2  | 940.3  | 954.6  | 964.1  | 959.4  | 957.8  |
| 20°   | 3459.2 | 3185.3 | 2297.1 | 1344.1 | 937.3  | 913.5  | 924.6  | 937.3  | 945.2  | 937.3  | 935.6  |
| 22.5° | 3585.8 | 3218.5 | 2092.9 | 1079.7 | 888.2  | 894.5  | 903.9  | 918.2  | 926.1  | 915.0  | 913.5  |
| 25°   | 3740.9 | 3270.8 | 1891.8 | 938.8  | 864.4  | 872.3  | 886.5  | 902.4  | 911.8  | 900.8  | 899.2  |
| 27.5° | 3941.9 | 3354.6 | 1706.6 | 907.1  | 840.6  | 845.4  | 866.0  | 889.7  | 902.4  | 888.2  | 888.2  |
| 30°   | 4233.2 | 3492.4 | 1546.7 | 921.4  | 826.4  | 815.3  | 843.8  | 877.1  | 891.3  | 878.6  | 877.1  |
| 32.5° | 4619.6 | 3687.1 | 1448.5 | 943.5  | 820.1  | 780.4  | 807.4  | 850.1  | 873.9  | 866.0  | 866.0  |
| 35°   | 5126.1 | 3983.2 | 1410.6 | 968.8  | 815.3  | 744.0  | 763.1  | 808.9  | 850.1  | 858.0  | 858.0  |
| 37.5° | 5740.4 | 4394.8 | 1421.7 | 980.0  | 801.0  | 714.0  | 723.4  | 763.1  | 816.9  | 842.2  | 848.6  |
| 40°   | 6438.5 | 4874.5 | 1485.0 | 968.8  | 785.3  | 688.7  | 690.2  | 720.4  | 767.8  | 805.9  | 818.5  |
| 42.5° | 7158.9 | 5434.9 | 1602.2 | 927.7  | 771.0  | 666.5  | 661.7  | 682.3  | 714.0  | 740.9  | 751.9  |
| 45°   | 7844.4 | 6011.1 | 1717.7 | 870.7  | 753.6  | 644.3  | 633.2  | 641.1  | 647.5  | 658.6  | 664.9  |
| 47.5° | 8442.8 | 6416.4 | 1684.5 | 818.5  | 729.8  | 619.0  | 600.0  | 596.9  | 577.8  | 576.3  | 574.7  |
| 50°   | 8856.0 | 6505.1 | 1496.1 | 766.2  | 694.9  | 590.5  | 560.5  | 541.4  | 508.2  | 492.3  | 493.9  |
| 52.5° | 8987.4 | 6155.2 | 1222.2 | 714.0  | 638.0  | 552.5  | 509.7  | 479.7  | 438.5  | 424.2  | 422.7  |
| 55°   | 8813.3 | 5469.7 | 976.8  | 650.7  | 558.8  | 501.8  | 454.4  | 414.8  | 381.5  | 364.1  | 364.1  |
| 57.5° | 8387.4 | 4597.4 | 772.5  | 576.3  | 475.0  | 444.8  | 397.4  | 357.8  | 329.3  | 311.9  | 308.7  |
| 60°   | 7681.4 | 3650.7 | 611.1  | 487.6  | 405.3  | 383.1  | 334.0  | 308.7  | 283.4  | 262.8  | 258.1  |
| 62.5° | 6609.6 | 2605.9 | 479.7  | 386.3  | 338.8  | 313.4  | 285.0  | 266.0  | 235.9  | 207.4  | 202.6  |
| 65°   | 5157.8 | 1594.2 | 370.4  | 283.4  | 272.3  | 259.6  | 242.2  | 224.8  | 188.4  | 159.9  | 155.2  |
| 67.5° | 3253.4 | 755.1  | 264.3  | 213.7  | 215.4  | 209.0  | 201.1  | 186.9  | 159.9  | 134.6  | 131.4  |
| 70°   | 1432.7 | 365.7  | 174.1  | 163.1  | 159.9  | 159.9  | 166.3  | 161.4  | 136.1  | 112.4  | 107.6  |
| 72.5° | 487.6  | 196.3  | 129.9  | 123.5  | 115.5  | 114.0  | 139.3  | 134.6  | 109.3  | 87.0   | 82.3   |
| 75°   | 254.9  | 131.4  | 95.0   | 88.7   | 69.7   | 83.9   | 110.8  | 104.4  | 77.6   | 57.0   | 52.3   |
| 77.5° | 166.3  | 93.4   | 64.9   | 57.0   | 39.6   | 55.5   | 82.3   | 72.8   | 45.9   | 28.5   | 25.3   |
| 80°   | 104.4  | 61.7   | 38.0   | 27.0   | 19.0   | 30.0   | 44.3   | 31.7   | 17.4   | 6.4    | 4.7    |
| 82.5° | 55.5   | 31.7   | 14.2   | 9.5    | 7.9    | 9.5    | 11.1   | 7.9    | 3.2    | 0.0    | 0.0    |
| 85°   | 22.1   | 11.1   | 4.7    | 3.2    | 1.5    | 0.0    | 3.2    | 1.5    | 0.0    | 0.0    | 0.0    |
| 87.5° | 7.9    | 1.5    | 0.0    | 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)