

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: P885180

Luminaire Tested: **NVN-SB6B-830-U-T4FT-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885180  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB6B-830-U-T4FT-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

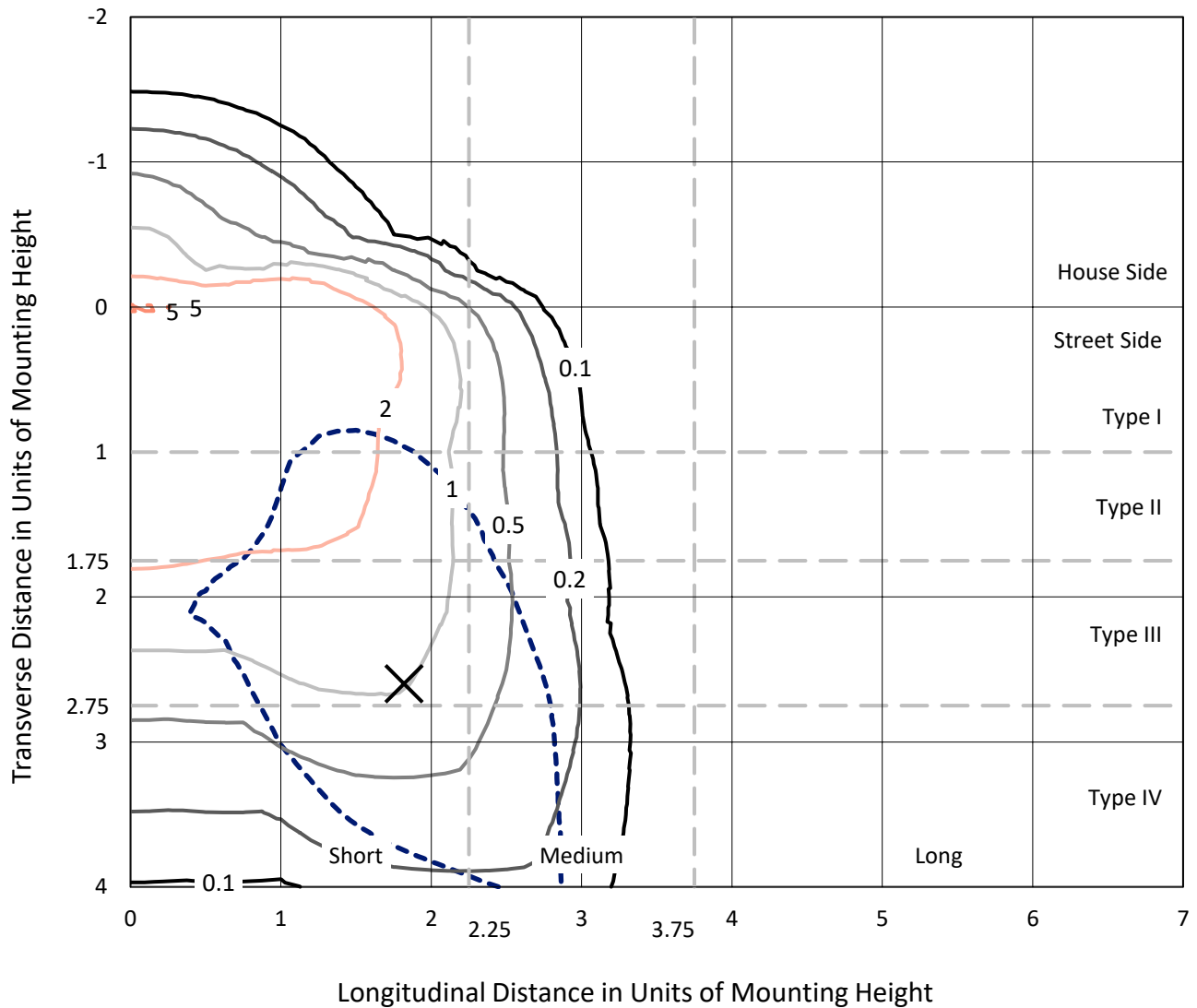
Lumens per Lamp: N/A  
Luminaire Lumens: 22643 lumens  
Efficiency: N/A  
Efficacy: 102.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 220.4  
Input Voltage (V): 120.0  
Input Current (Ain): 1.838  
Voltage Rise (V): NR  
Power Factor: 0.995  
Total Harmonic Distortion (THDi): 8.657  
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

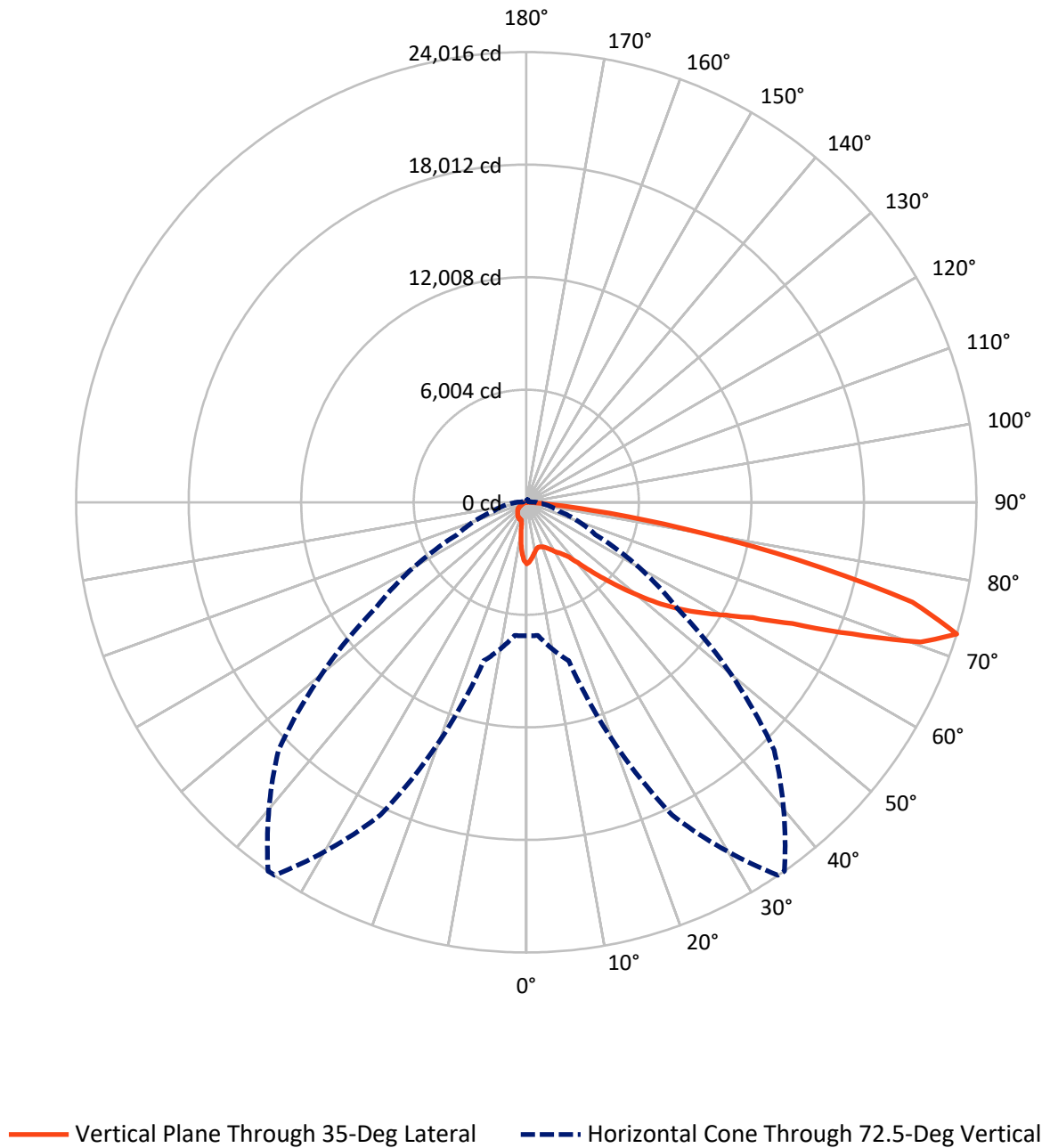
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2548.4   | 0.0    | 2548.4  |
|                    | % Fixture | 11.3     | 0.0    | 11.3    |
| <b>Street Side</b> | Lumens    | 20094.6  | 0.0    | 20094.6 |
|                    | % Fixture | 88.7     | 0.0    | 88.7    |
| <b>Total</b>       | Lumens    | 22643.0  | 0.0    | 22643.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 269.7   | 1.2       |
| 10°-20°   | 630.9   | 2.8       |
| 20°-30°   | 1024.8  | 4.5       |
| 30°-40°   | 1709.9  | 7.6       |
| 40°-50°   | 3235.2  | 14.3      |
| 50°-60°   | 5140.7  | 22.7      |
| 60°-70°   | 6359.4  | 28.1      |
| 70°-80°   | 3953.0  | 17.5      |
| 80°-90°   | 319.5   | 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°    | 22643.0 | 100.0     |
| 0°-180°   | 22643.0 | 100.0     |

**Coefficient of Utilization**



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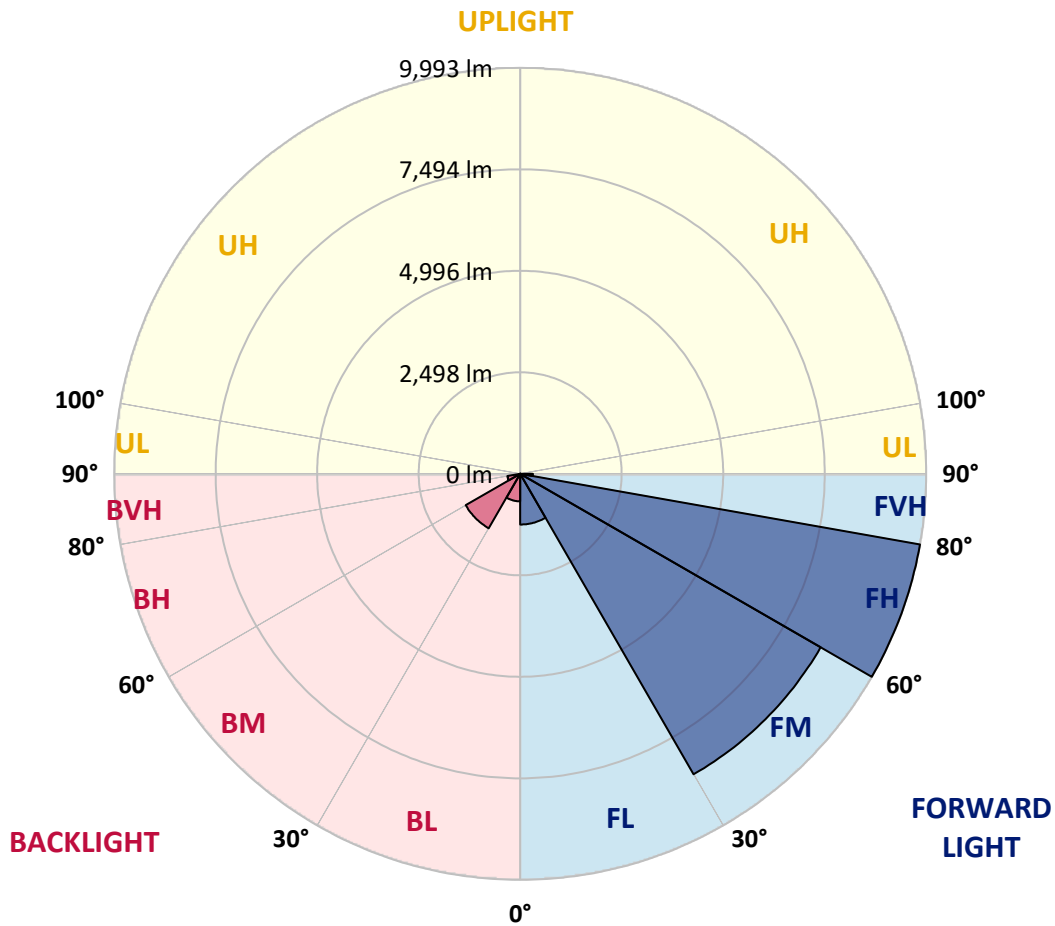
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|--------|-----------|-------------------------|------|----------|
|                |        |           | B                       | U    | G        |
| FL (0°-30°)    | 1248.2 | 5.5       |                         |      |          |
| FM (30°-60°)   | 8538.7 | 37.7      |                         |      |          |
| FH (60°-80°)   | 9992.6 | 44.1      |                         |      | G4/12000 |
| FVH (80°-90°)  | 315.1  | 1.4       |                         |      | G3/500   |
| BL (0°-30°)    | 677.2  | 3.0       | B2/1000                 |      |          |
| BM (30°-60°)   | 1547.1 | 6.8       | B2/2500                 |      |          |
| BH (60°-80°)   | 319.8  | 1.4       | B1/500                  |      | G1/500   |
| BVH (80°-90°)  | 4.4    | 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°    | 3281.7  | 3281.7  | 3281.7  | 3281.7  | 3281.7  | 3281.7  | 3281.7  | 3281.7  | 3281.7  | 3281.7  | 3281.7  |
| 2.5°  | 3135.7  | 3162.3  | 3167.3  | 3175.5  | 3175.5  | 3185.5  | 3202.1  | 3225.3  | 3263.5  | 3283.4  | 3296.7  |
| 5°    | 2890.2  | 2910.1  | 2935.0  | 2954.9  | 2993.0  | 2998.0  | 3062.7  | 3125.8  | 3213.7  | 3280.1  | 3326.5  |
| 7.5°  | 2643.0  | 2666.2  | 2699.4  | 2747.5  | 2797.3  | 2812.2  | 2910.1  | 3016.3  | 3155.6  | 3280.1  | 3358.0  |
| 10°   | 2468.8  | 2470.4  | 2500.3  | 2548.4  | 2628.0  | 2646.3  | 2765.7  | 2916.7  | 3090.9  | 3260.2  | 3387.9  |
| 12.5° | 2370.9  | 2382.5  | 2395.8  | 2432.3  | 2508.6  | 2520.2  | 2647.9  | 2825.5  | 3026.2  | 3248.5  | 3422.8  |
| 15°   | 2370.9  | 2379.2  | 2387.5  | 2405.7  | 2467.1  | 2477.1  | 2589.9  | 2767.4  | 2993.0  | 3253.5  | 3479.2  |
| 17.5° | 2395.8  | 2409.0  | 2402.4  | 2424.0  | 2488.7  | 2495.3  | 2594.9  | 2750.8  | 2991.4  | 3285.0  | 3565.4  |
| 20°   | 2455.5  | 2465.4  | 2452.2  | 2465.4  | 2530.2  | 2543.4  | 2646.3  | 2782.3  | 3019.6  | 3339.8  | 3673.3  |
| 22.5° | 2550.1  | 2555.0  | 2523.5  | 2533.5  | 2599.8  | 2616.4  | 2735.9  | 2871.9  | 3087.6  | 3427.7  | 3817.6  |
| 25°   | 2669.5  | 2679.5  | 2631.4  | 2643.0  | 2706.0  | 2725.9  | 2863.6  | 3006.3  | 3195.5  | 3548.8  | 4001.8  |
| 27.5° | 2807.2  | 2812.2  | 2770.7  | 2769.1  | 2850.4  | 2878.6  | 3017.9  | 3172.2  | 3339.8  | 3701.5  | 4234.1  |
| 30°   | 2964.8  | 2979.8  | 2940.0  | 2933.3  | 3036.2  | 3059.4  | 3197.1  | 3376.3  | 3552.2  | 3930.4  | 4564.2  |
| 32.5° | 3089.3  | 3100.9  | 3077.7  | 3094.2  | 3198.8  | 3217.0  | 3414.5  | 3665.0  | 3885.6  | 4255.6  | 5013.8  |
| 35°   | 3268.5  | 3275.1  | 3222.0  | 3251.9  | 3371.3  | 3417.8  | 3711.4  | 4069.8  | 4305.4  | 4663.8  | 5601.2  |
| 37.5° | 3917.2  | 3917.2  | 3691.5  | 3543.9  | 3658.3  | 3699.8  | 4117.9  | 4579.2  | 4823.0  | 5211.3  | 6341.1  |
| 40°   | 4814.8  | 4799.8  | 4469.7  | 4167.7  | 4152.8  | 4234.1  | 4697.0  | 5221.2  | 5491.7  | 5868.3  | 7174.0  |
| 42.5° | 5772.1  | 5748.8  | 5299.2  | 5000.6  | 4950.8  | 4979.0  | 5365.6  | 6012.6  | 6288.0  | 6669.6  | 8069.9  |
| 45°   | 6621.5  | 6614.9  | 6203.4  | 5801.9  | 5712.3  | 5801.9  | 6200.1  | 6938.4  | 7135.9  | 7537.4  | 8964.2  |
| 47.5° | 7333.3  | 7333.3  | 7033.0  | 6770.8  | 6724.4  | 6777.5  | 7330.0  | 7965.4  | 7947.2  | 8461.5  | 9835.2  |
| 50°   | 8152.9  | 8146.3  | 7860.9  | 7748.1  | 7796.2  | 7870.8  | 8630.7  | 9047.2  | 8786.7  | 9369.0  | 10613.4 |
| 52.5° | 8726.9  | 8766.8  | 8668.9  | 8650.6  | 8896.2  | 9025.6  | 9951.4  | 10105.7 | 9538.3  | 10230.1 | 11195.7 |
| 55°   | 9181.5  | 9228.0  | 9340.8  | 9468.6  | 9941.4  | 10110.6 | 11230.6 | 11109.4 | 10167.1 | 10976.7 | 11530.9 |
| 57.5° | 9825.3  | 9758.9  | 9933.1  | 10185.3 | 10950.2 | 11154.2 | 12469.9 | 12056.8 | 10673.1 | 11582.3 | 11567.4 |
| 60°   | 10606.7 | 10616.7 | 10646.5 | 10965.1 | 11957.2 | 12219.4 | 13691.0 | 12952.7 | 10998.3 | 11953.9 | 11162.5 |
| 62.5° | 11545.8 | 11560.7 | 11622.1 | 12111.5 | 13309.4 | 13556.6 | 14991.8 | 13686.0 | 11147.6 | 11849.4 | 10117.3 |
| 65°   | 11481.1 | 11544.1 | 12229.3 | 13903.4 | 15365.1 | 15609.0 | 16509.9 | 14200.4 | 10922.0 | 10893.8 | 8237.5  |
| 67.5° | 10459.1 | 10561.9 | 11708.4 | 16043.6 | 18464.3 | 18736.4 | 18344.8 | 14301.6 | 9948.1  | 8471.4  | 5373.9  |
| 70°   | 9118.5  | 9155.0  | 10533.7 | 17968.2 | 22053.0 | 22328.4 | 19987.4 | 13188.3 | 7549.0  | 4725.2  | 2407.4  |
| 72.5° | 7120.9  | 7129.2  | 8746.9  | 18414.5 | 24000.8 | 24015.7 | 18698.2 | 9790.4  | 4059.9  | 1815.1  | 836.2   |
| 75°   | 5086.8  | 5037.1  | 5858.3  | 14933.7 | 21115.6 | 21284.8 | 14017.9 | 4592.4  | 1551.3  | 857.8   | 416.4   |
| 77.5° | 2727.6  | 2782.3  | 3314.9  | 8856.4  | 14586.9 | 14875.6 | 7648.5  | 1324.0  | 789.7   | 584.0   | 275.4   |
| 80°   | 842.8   | 889.3   | 1358.8  | 4054.9  | 8262.4  | 8436.6  | 2835.4  | 589.0   | 550.8   | 416.4   | 180.8   |
| 82.5° | 265.5   | 275.4   | 633.8   | 1703.9  | 3429.4  | 3509.0  | 821.3   | 333.5   | 376.6   | 275.4   | 106.2   |
| 85°   | 76.3    | 78.0    | 282.0   | 635.4   | 847.8   | 864.4   | 230.6   | 129.4   | 215.7   | 170.9   | 54.8    |
| 87.5° | 8.3     | 26.5    | 106.2   | 106.2   | 74.7    | 73.0    | 24.9    | 28.2    | 61.4    | 21.6    | 10.0    |
| 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°    | 3281.7 | 3281.7 | 3281.7 | 3281.7 | 3281.7 | 3281.7 | 3281.7 | 3281.7 | 3281.7 | 3281.7 | 3281.7 |
| 2.5°  | 3288.4 | 3290.0 | 3268.5 | 3232.0 | 3192.1 | 3159.0 | 3117.5 | 3084.3 | 3061.1 | 3054.4 | 3066.0 |
| 5°    | 3311.6 | 3300.0 | 3238.6 | 3127.4 | 2994.7 | 2880.2 | 2752.5 | 2651.3 | 2584.9 | 2556.7 | 2566.7 |
| 7.5°  | 3346.4 | 3313.3 | 3178.9 | 2959.9 | 2706.0 | 2480.4 | 2251.4 | 2073.9 | 1961.1 | 1904.7 | 1913.0 |
| 10°   | 3376.3 | 3309.9 | 3079.3 | 2717.6 | 2329.4 | 1987.6 | 1679.0 | 1465.0 | 1345.5 | 1289.1 | 1290.8 |
| 12.5° | 3404.5 | 3308.3 | 2949.9 | 2430.6 | 1904.7 | 1486.6 | 1199.5 | 1093.4 | 1060.2 | 1048.6 | 1045.2 |
| 15°   | 3457.6 | 3313.3 | 2787.3 | 2102.1 | 1481.6 | 1123.2 | 1018.7 | 1017.0 | 1023.7 | 1020.4 | 1018.7 |
| 17.5° | 3530.6 | 3318.2 | 2603.2 | 1753.7 | 1143.1 | 990.5  | 985.5  | 1000.4 | 1010.4 | 1005.4 | 1003.8 |
| 20°   | 3625.2 | 3338.1 | 2407.4 | 1408.6 | 982.2  | 957.3  | 968.9  | 982.2  | 990.5  | 982.2  | 980.5  |
| 22.5° | 3757.9 | 3373.0 | 2193.4 | 1131.5 | 930.8  | 937.4  | 947.4  | 962.3  | 970.6  | 959.0  | 957.3  |
| 25°   | 3920.5 | 3427.7 | 1982.6 | 983.9  | 905.9  | 914.2  | 929.1  | 945.7  | 955.7  | 944.0  | 942.4  |
| 27.5° | 4131.2 | 3515.7 | 1788.5 | 950.7  | 881.0  | 886.0  | 907.5  | 932.4  | 945.7  | 930.8  | 930.8  |
| 30°   | 4436.5 | 3660.0 | 1621.0 | 965.6  | 866.1  | 854.4  | 884.3  | 919.1  | 934.1  | 920.8  | 919.1  |
| 32.5° | 4841.3 | 3864.1 | 1518.1 | 988.8  | 859.4  | 817.9  | 846.1  | 890.9  | 915.8  | 907.5  | 907.5  |
| 35°   | 5372.2 | 4174.3 | 1478.3 | 1015.4 | 854.4  | 779.8  | 799.7  | 847.8  | 890.9  | 899.2  | 899.2  |
| 37.5° | 6016.0 | 4605.7 | 1489.9 | 1027.0 | 839.5  | 748.3  | 758.2  | 799.7  | 856.1  | 882.6  | 889.3  |
| 40°   | 6747.6 | 5108.4 | 1556.3 | 1015.4 | 822.9  | 721.7  | 723.4  | 754.9  | 804.7  | 844.5  | 857.8  |
| 42.5° | 7502.5 | 5695.7 | 1679.0 | 972.2  | 808.0  | 698.5  | 693.5  | 715.1  | 748.3  | 776.5  | 788.1  |
| 45°   | 8220.9 | 6299.7 | 1800.1 | 912.5  | 789.7  | 675.3  | 663.6  | 671.9  | 678.6  | 690.2  | 696.8  |
| 47.5° | 8848.1 | 6724.4 | 1765.3 | 857.8  | 764.9  | 648.7  | 628.8  | 625.5  | 605.6  | 603.9  | 602.3  |
| 50°   | 9281.1 | 6817.3 | 1567.9 | 803.0  | 728.4  | 618.8  | 587.3  | 567.4  | 532.6  | 516.0  | 517.6  |
| 52.5° | 9418.8 | 6450.6 | 1280.8 | 748.3  | 668.6  | 579.0  | 534.2  | 502.7  | 459.6  | 444.6  | 443.0  |
| 55°   | 9236.3 | 5732.2 | 1023.7 | 681.9  | 585.7  | 525.9  | 476.2  | 434.7  | 399.8  | 381.6  | 381.6  |
| 57.5° | 8790.0 | 4818.1 | 809.6  | 603.9  | 497.7  | 466.2  | 416.4  | 375.0  | 345.1  | 326.8  | 323.5  |
| 60°   | 8050.0 | 3825.9 | 640.4  | 511.0  | 424.7  | 401.5  | 350.1  | 323.5  | 297.0  | 275.4  | 270.4  |
| 62.5° | 6926.8 | 2730.9 | 502.7  | 404.8  | 355.1  | 328.5  | 298.6  | 278.7  | 247.2  | 217.3  | 212.4  |
| 65°   | 5405.4 | 1670.7 | 388.2  | 297.0  | 285.4  | 272.1  | 253.8  | 235.6  | 197.4  | 167.6  | 162.6  |
| 67.5° | 3409.5 | 791.4  | 277.1  | 224.0  | 225.6  | 219.0  | 210.7  | 195.8  | 167.6  | 141.0  | 137.7  |
| 70°   | 1501.5 | 383.3  | 182.5  | 170.9  | 167.6  | 167.6  | 174.2  | 169.2  | 142.7  | 117.8  | 112.8  |
| 72.5° | 511.0  | 205.7  | 136.0  | 129.4  | 121.1  | 119.5  | 146.0  | 141.0  | 114.5  | 91.3   | 86.3   |
| 75°   | 267.1  | 137.7  | 99.5   | 92.9   | 73.0   | 87.9   | 116.1  | 109.5  | 81.3   | 59.7   | 54.8   |
| 77.5° | 174.2  | 97.9   | 68.0   | 59.7   | 41.5   | 58.1   | 86.3   | 76.3   | 48.1   | 29.9   | 26.5   |
| 80°   | 109.5  | 64.7   | 39.8   | 28.2   | 19.9   | 31.5   | 46.5   | 33.2   | 18.3   | 6.6    | 5.0    |
| 82.5° | 58.1   | 33.2   | 14.9   | 10.0   | 8.3    | 10.0   | 11.6   | 8.3    | 3.3    | 0.0    | 0.0    |
| 85°   | 23.2   | 11.6   | 5.0    | 3.3    | 1.7    | 0.0    | 3.3    | 1.7    | 0.0    | 0.0    | 0.0    |
| 87.5° | 8.3    | 1.7    | 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)