

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: P191221

Luminaire Tested: **GAN-AF-03-LED-U-SL4-1200-HSS-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191221  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-03-LED-U-SL4-1200-HSS-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16551.3 lumens  
Efficiency: N/A  
Efficacy: 86.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G3

Input Watts (W): 191  
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: 28.75 FT

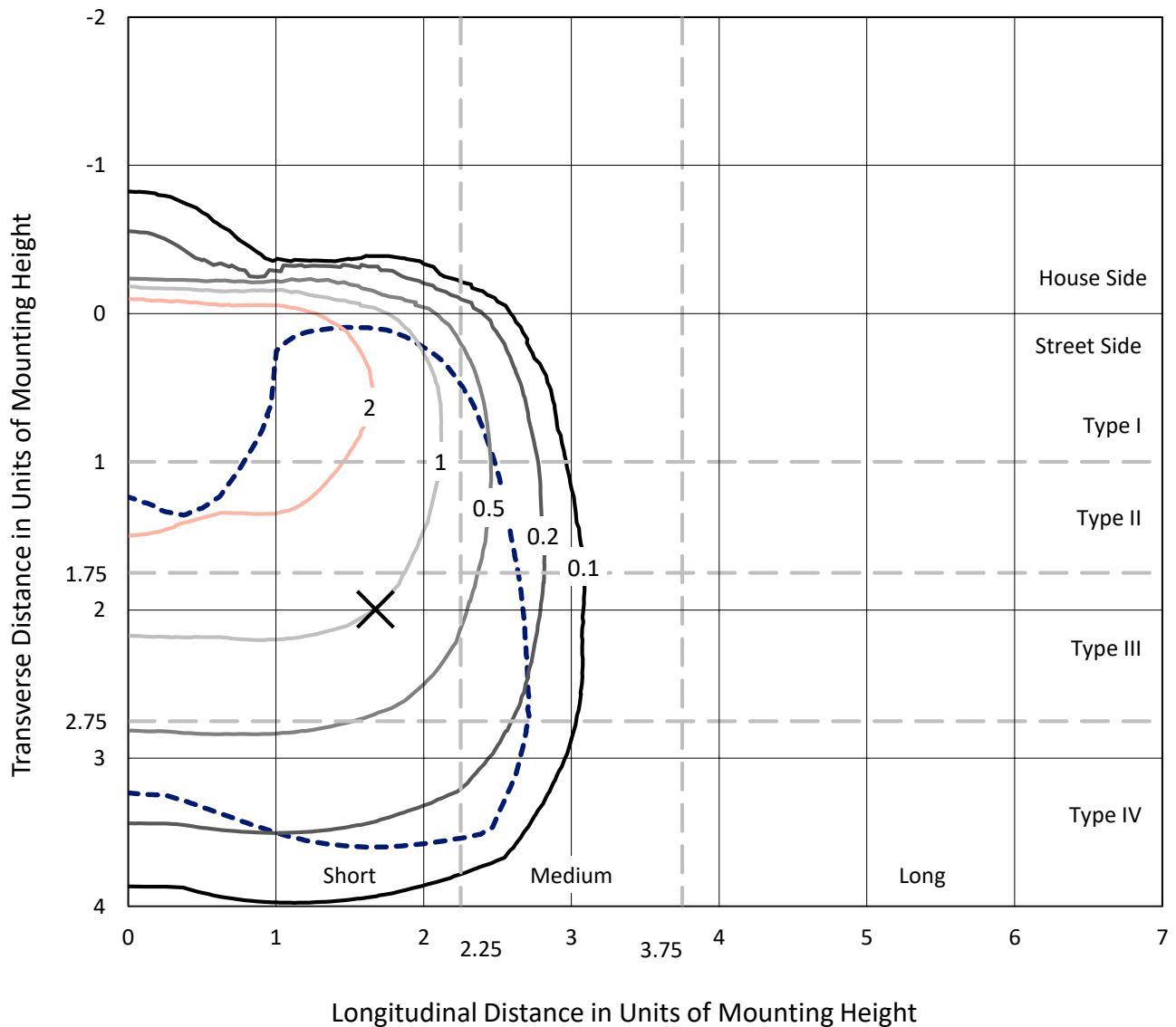


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

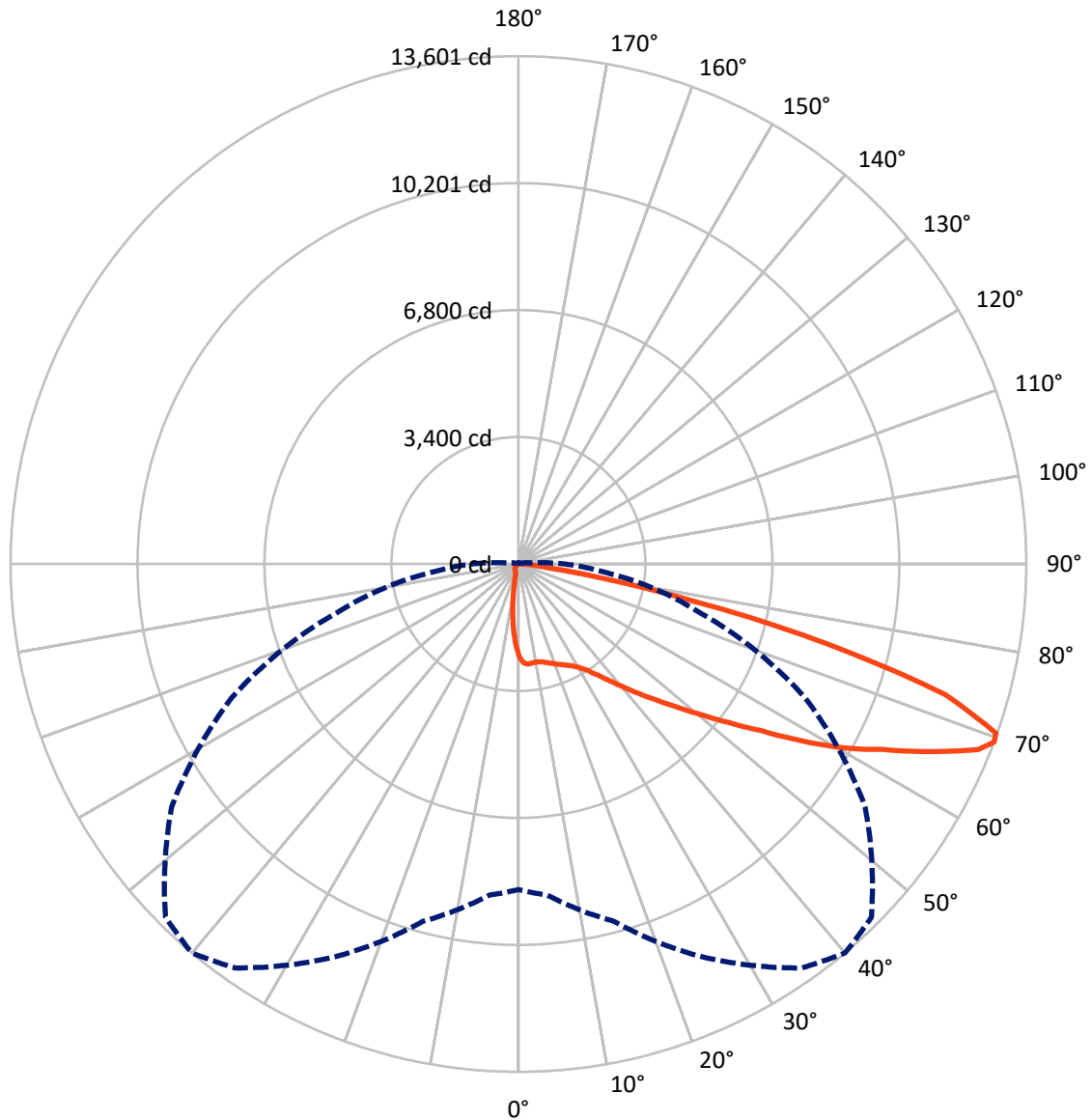


Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 968.4    | 0.0    | 968.4   |
|                    | % Fixture | 5.9      | 0.0    | 5.9     |
| <b>Street Side</b> | Lumens    | 15583.0  | 0.0    | 15583.0 |
|                    | % Fixture | 94.1     | 0.0    | 94.1    |
| <b>Total</b>       | Lumens    | 16551.3  | 0.0    | 16551.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 200.5   | 1.2       |
| 10°-20°   | 493.1   | 3.0       |
| 20°-30°   | 830.5   | 5.0       |
| 30°-40°   | 1359.5  | 8.2       |
| 40°-50°   | 2354.0  | 14.2      |
| 50°-60°   | 3707.8  | 22.4      |
| 60°-70°   | 4842.2  | 29.3      |
| 70°-80°   | 2494.0  | 15.1      |
| 80°-90°   | 269.8   | 1.6       |
| 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°    | 16551.3 | 100.0     |
| 0°-180°   | 16551.3 | 100.0     |

**Coefficient of Utilization**



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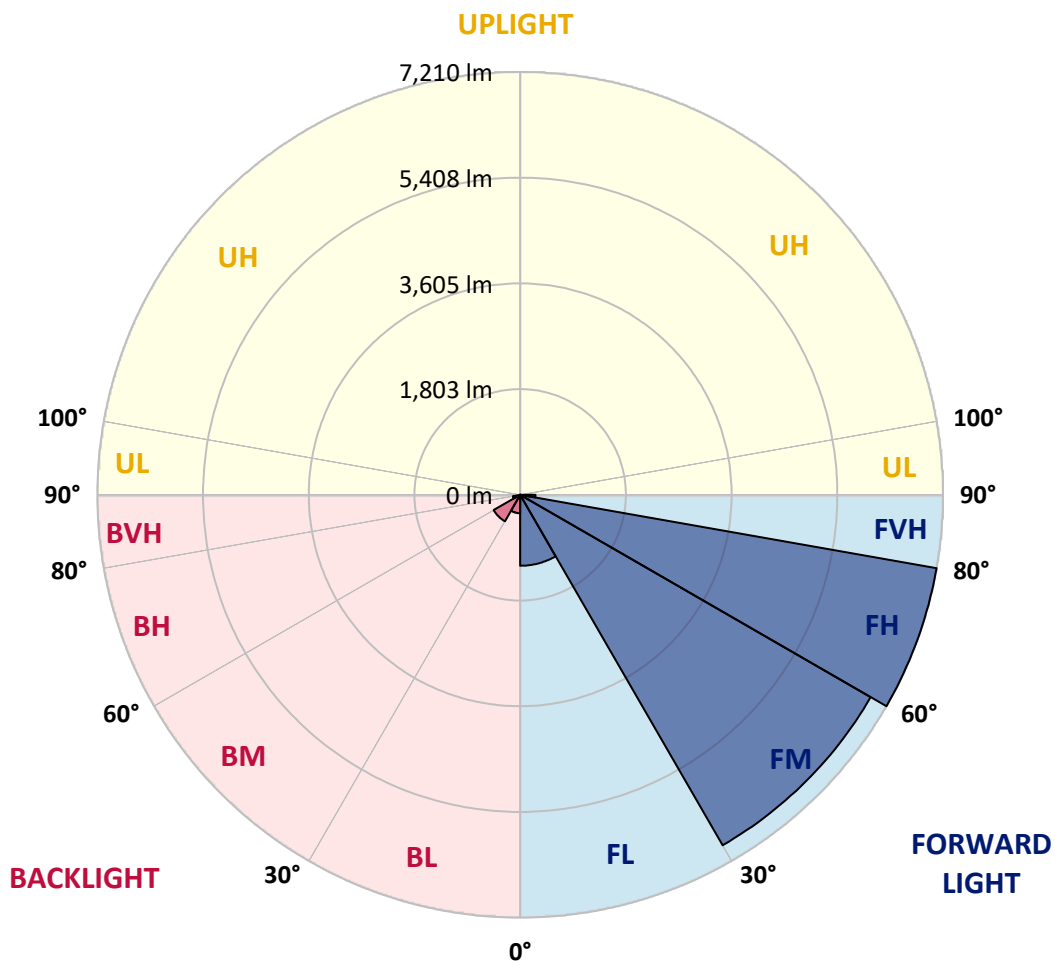
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1210.4 | 7.3       |                         |      |         |
| FM   | (30°-60°)   | 6900.9 | 41.7      |                         |      |         |
| FH   | (60°-80°)   | 7210.5 | 43.6      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 261.3  | 1.6       |                         |      | G3/500  |
| BL   | (0°-30°)    | 313.7  | 1.9       | B1/500                  |      |         |
| BM   | (30°-60°)   | 520.5  | 3.1       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 125.7  | 0.8       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 8.5    | 0.1       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°     | 35°     | 40°     | 45°     | 55°     | 65°     | 75°    | 85°    |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|--------|--------|
| 0°    | 2472.9 | 2472.9 | 2472.9 | 2472.9  | 2472.9  | 2472.9  | 2472.9  | 2472.9  | 2472.9  | 2472.9 | 2472.9 |
| 2.5°  | 2715.2 | 2700.5 | 2691.6 | 2679.7  | 2665.0  | 2652.2  | 2647.2  | 2610.8  | 2576.3  | 2529.0 | 2474.8 |
| 5°    | 2765.4 | 2760.5 | 2744.8 | 2729.0  | 2711.2  | 2691.6  | 2680.7  | 2637.4  | 2588.2  | 2519.1 | 2424.6 |
| 7.5°  | 2770.4 | 2764.5 | 2744.8 | 2723.1  | 2698.4  | 2674.8  | 2656.1  | 2612.7  | 2567.4  | 2497.5 | 2382.2 |
| 10°   | 2762.5 | 2755.6 | 2740.8 | 2717.2  | 2686.7  | 2664.0  | 2645.2  | 2603.9  | 2565.5  | 2502.4 | 2374.4 |
| 12.5° | 2753.7 | 2746.7 | 2739.9 | 2728.0  | 2701.4  | 2685.7  | 2669.9  | 2630.5  | 2596.0  | 2542.9 | 2402.9 |
| 15°   | 2762.5 | 2758.6 | 2766.5 | 2761.6  | 2746.7  | 2732.9  | 2717.2  | 2681.8  | 2650.2  | 2605.9 | 2455.1 |
| 17.5° | 2799.9 | 2799.9 | 2824.6 | 2827.5  | 2813.7  | 2794.0  | 2771.4  | 2735.9  | 2709.3  | 2671.8 | 2517.2 |
| 20°   | 2887.6 | 2884.7 | 2916.2 | 2922.1  | 2888.6  | 2858.0  | 2824.6  | 2781.2  | 2760.5  | 2736.9 | 2578.2 |
| 22.5° | 3038.4 | 3024.6 | 3043.3 | 3037.3  | 2971.4  | 2924.1  | 2882.7  | 2829.5  | 2818.6  | 2807.8 | 2646.3 |
| 25°   | 3234.4 | 3226.5 | 3239.4 | 3181.2  | 3065.0  | 3000.9  | 2951.6  | 2891.6  | 2891.6  | 2902.4 | 2723.1 |
| 27.5° | 3519.2 | 3489.6 | 3446.2 | 3343.8  | 3169.4  | 3087.6  | 3034.4  | 2970.3  | 2987.1  | 3027.5 | 2824.6 |
| 30°   | 3810.8 | 3778.3 | 3678.7 | 3521.1  | 3296.5  | 3210.7  | 3148.7  | 3081.7  | 3121.1  | 3195.0 | 2960.5 |
| 32.5° | 4098.5 | 4062.0 | 3921.1 | 3722.1  | 3478.7  | 3393.0  | 3333.0  | 3259.0  | 3325.1  | 3449.2 | 3159.6 |
| 35°   | 4377.2 | 4344.8 | 4182.1 | 3947.7  | 3721.1  | 3650.2  | 3595.0  | 3530.9  | 3615.7  | 3789.1 | 3440.3 |
| 37.5° | 4690.5 | 4655.0 | 4457.1 | 4202.9  | 4015.7  | 3964.4  | 3924.0  | 3860.0  | 4007.8  | 4262.0 | 3831.5 |
| 40°   | 5075.8 | 5015.6 | 4748.6 | 4495.5  | 4356.5  | 4331.9  | 4304.4  | 4295.5  | 4525.0  | 4876.7 | 4352.7 |
| 42.5° | 5517.1 | 5418.6 | 5054.1 | 4803.9  | 4730.9  | 4748.6  | 4741.8  | 4781.2  | 5172.3  | 5641.3 | 4987.1 |
| 45°   | 5958.5 | 5831.4 | 5394.0 | 5132.9  | 5142.8  | 5204.8  | 5243.2  | 5400.9  | 5983.1  | 6518.1 | 5669.8 |
| 47.5° | 6332.9 | 6207.8 | 5720.0 | 5488.5  | 5606.8  | 5728.9  | 5833.4  | 6131.9  | 6816.6  | 7381.1 | 6200.8 |
| 50°   | 6653.1 | 6534.8 | 6065.9 | 5879.7  | 6145.7  | 6342.7  | 6512.2  | 6954.5  | 7713.2  | 8038.2 | 6573.3 |
| 52.5° | 6915.1 | 6836.3 | 6424.5 | 6328.0  | 6761.4  | 7050.1  | 7298.3  | 7828.4  | 8507.2  | 8572.2 | 6862.9 |
| 55°   | 7170.3 | 7114.1 | 6809.7 | 6860.9  | 7484.6  | 7877.6  | 8192.0  | 8755.4  | 9190.9  | 9017.5 | 7140.7 |
| 57.5° | 7463.9 | 7412.6 | 7249.1 | 7536.8  | 8435.3  | 8929.8  | 9272.7  | 9577.2  | 9792.9  | 9472.7 | 7402.8 |
| 60°   | 7763.4 | 7733.8 | 7737.8 | 8287.5  | 9526.9  | 10001.8 | 10190.9 | 10269.7 | 10384.0 | 9901.2 | 7417.6 |
| 62.5° | 8049.1 | 8105.2 | 8296.3 | 9123.0  | 10572.2 | 10936.7 | 11032.3 | 11110.2 | 10976.2 | 9969.3 | 6853.1 |
| 65°   | 8532.8 | 8624.5 | 9080.6 | 10241.2 | 11721.9 | 12112.0 | 12210.6 | 11943.6 | 11069.8 | 9090.5 | 5574.3 |
| 67.5° | 8769.2 | 8936.8 | 9750.6 | 11283.6 | 12837.2 | 13270.6 | 13234.2 | 11997.8 | 9933.8  | 6931.9 | 3577.3 |
| 69°   | 8720.0 | 8898.3 | 9905.2 | 11602.7 | 13207.6 | 13600.7 | 13369.1 | 11334.7 | 8462.9  | 5021.6 | 2196.0 |
| 70°   | 8525.0 | 8705.2 | 9825.4 | 11590.9 | 13254.9 | 13566.3 | 13118.9 | 10516.0 | 7155.5  | 3671.9 | 1373.4 |
| 72.5° | 7119.0 | 7274.7 | 8723.0 | 10476.7 | 12210.6 | 11957.4 | 10975.1 | 7285.6  | 3486.6  | 999.9  | 309.3  |
| 75°   | 4382.2 | 4468.9 | 6259.0 | 7892.5  | 9222.5  | 8572.2  | 7312.2  | 3624.5  | 1039.4  | 282.7  | 171.4  |
| 77.5° | 2315.2 | 2354.6 | 3426.6 | 4652.1  | 5846.2  | 4837.3  | 3747.7  | 1413.7  | 478.8   | 177.4  | 124.2  |
| 80°   | 1368.4 | 1398.0 | 1845.3 | 2127.0  | 2530.0  | 2113.2  | 1498.5  | 868.0   | 342.9   | 111.3  | 110.4  |
| 82.5° | 783.3  | 802.0  | 1337.9 | 1182.2  | 997.1   | 851.2   | 745.8   | 822.7   | 205.9   | 74.9   | 114.3  |
| 85°   | 287.7  | 291.6  | 752.7  | 899.5   | 593.1   | 352.7   | 370.4   | 681.8   | 55.1    | 47.3   | 89.6   |
| 87.5° | 134.0  | 131.0  | 387.2  | 550.8   | 346.8   | 223.6   | 288.7   | 149.8   | 21.7    | 30.6   | 24.7   |
| 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°    | 2472.9 | 2472.9 | 2472.9 | 2472.9 | 2472.9 | 2472.9 | 2472.9 | 2472.9 | 2472.9 | 2472.9 | 2472.9 |
| 2.5°  | 2443.3 | 2406.8 | 2340.8 | 2272.9 | 2203.8 | 2150.7 | 2098.5 | 2057.1 | 2043.3 | 2017.7 | 2019.7 |
| 5°    | 2368.4 | 2301.4 | 2163.5 | 2023.6 | 1877.8 | 1757.6 | 1644.3 | 1552.6 | 1508.3 | 1463.0 | 1463.0 |
| 7.5°  | 2303.4 | 2205.9 | 1990.2 | 1762.5 | 1527.1 | 1329.0 | 1150.7 | 1016.7 | 942.9  | 883.7  | 882.7  |
| 10°   | 2278.7 | 2146.8 | 1845.3 | 1519.2 | 1191.1 | 921.2  | 709.3  | 573.4  | 503.4  | 458.1  | 456.1  |
| 12.5° | 2289.6 | 2126.1 | 1734.0 | 1294.5 | 882.7  | 592.1  | 410.8  | 323.2  | 293.6  | 279.8  | 279.8  |
| 15°   | 2321.2 | 2120.2 | 1622.6 | 1074.8 | 623.6  | 370.4  | 272.9  | 249.3  | 247.2  | 247.2  | 247.2  |
| 17.5° | 2359.5 | 2122.1 | 1508.3 | 861.0  | 424.6  | 265.0  | 235.5  | 232.5  | 234.5  | 234.5  | 234.5  |
| 20°   | 2398.9 | 2123.1 | 1385.2 | 663.1  | 299.5  | 230.6  | 221.7  | 220.7  | 222.7  | 222.7  | 223.6  |
| 22.5° | 2447.2 | 2128.0 | 1262.0 | 495.5  | 247.2  | 217.7  | 210.8  | 210.8  | 211.9  | 211.9  | 210.8  |
| 25°   | 2502.4 | 2137.9 | 1133.9 | 367.4  | 225.6  | 208.9  | 203.0  | 201.9  | 203.0  | 201.9  | 201.0  |
| 27.5° | 2571.4 | 2151.7 | 991.1  | 287.7  | 215.7  | 200.0  | 195.1  | 195.1  | 194.1  | 193.1  | 192.1  |
| 30°   | 2658.0 | 2167.4 | 830.5  | 244.3  | 205.9  | 192.1  | 187.2  | 186.2  | 185.3  | 183.2  | 183.2  |
| 32.5° | 2790.1 | 2201.9 | 671.9  | 221.7  | 195.1  | 181.3  | 177.4  | 177.4  | 175.3  | 173.4  | 172.4  |
| 35°   | 2993.1 | 2269.9 | 530.0  | 207.9  | 183.2  | 169.5  | 164.5  | 164.5  | 162.5  | 161.5  | 160.6  |
| 37.5° | 3273.9 | 2373.3 | 411.8  | 195.1  | 171.4  | 156.6  | 151.7  | 150.8  | 148.7  | 146.8  | 145.8  |
| 40°   | 3647.2 | 2501.4 | 324.2  | 183.2  | 159.6  | 143.8  | 139.9  | 137.9  | 134.0  | 131.0  | 131.0  |
| 42.5° | 4116.1 | 2647.2 | 263.0  | 170.4  | 145.8  | 132.1  | 129.1  | 126.1  | 119.2  | 116.2  | 115.3  |
| 45°   | 4606.8 | 2778.2 | 222.7  | 155.7  | 132.1  | 120.2  | 118.3  | 113.3  | 104.4  | 101.5  | 101.5  |
| 47.5° | 4960.5 | 2808.8 | 196.1  | 141.9  | 119.2  | 107.4  | 106.4  | 97.5   | 89.6   | 87.7   | 86.7   |
| 50°   | 5181.1 | 2748.7 | 174.4  | 128.1  | 107.4  | 95.5   | 92.6   | 81.7   | 76.8   | 74.9   | 73.9   |
| 52.5° | 5330.0 | 2641.4 | 156.6  | 116.2  | 96.6   | 84.7   | 77.8   | 70.0   | 66.0   | 64.0   | 64.0   |
| 55°   | 5449.2 | 2489.6 | 138.9  | 105.5  | 87.7   | 75.9   | 66.0   | 60.0   | 56.2   | 54.2   | 54.2   |
| 57.5° | 5482.6 | 2283.7 | 121.2  | 96.6   | 78.8   | 67.0   | 56.2   | 52.2   | 47.3   | 46.3   | 46.3   |
| 60°   | 5239.3 | 1912.3 | 107.4  | 85.7   | 70.9   | 58.1   | 49.3   | 44.3   | 39.4   | 38.5   | 37.4   |
| 62.5° | 4598.0 | 1479.8 | 94.6   | 75.9   | 62.1   | 50.2   | 42.4   | 36.4   | 32.5   | 32.5   | 32.5   |
| 65°   | 3507.3 | 992.1  | 82.8   | 66.0   | 54.2   | 42.4   | 36.4   | 29.6   | 27.6   | 27.6   | 28.5   |
| 67.5° | 2099.5 | 539.9  | 70.9   | 56.2   | 46.3   | 35.5   | 30.6   | 25.6   | 24.7   | 25.6   | 25.6   |
| 69°   | 1230.5 | 317.2  | 64.0   | 50.2   | 40.4   | 31.5   | 26.6   | 22.7   | 24.7   | 25.6   | 25.6   |
| 70°   | 759.5  | 213.8  | 59.1   | 45.3   | 36.4   | 28.5   | 24.7   | 21.7   | 23.6   | 24.7   | 24.7   |
| 72.5° | 211.9  | 110.4  | 47.3   | 35.5   | 29.6   | 23.6   | 19.7   | 19.7   | 22.7   | 23.6   | 23.6   |
| 75°   | 137.9  | 81.7   | 36.4   | 26.6   | 22.7   | 18.7   | 16.8   | 18.7   | 21.7   | 22.7   | 22.7   |
| 77.5° | 114.3  | 67.0   | 29.6   | 21.7   | 18.7   | 17.7   | 15.8   | 16.8   | 19.7   | 20.7   | 20.7   |
| 80°   | 104.4  | 47.3   | 23.6   | 19.7   | 16.8   | 15.8   | 14.7   | 13.8   | 17.7   | 18.7   | 18.7   |
| 82.5° | 99.5   | 37.4   | 20.7   | 17.7   | 15.8   | 13.8   | 12.8   | 13.8   | 15.8   | 16.8   | 17.7   |
| 85°   | 62.1   | 24.7   | 18.7   | 16.8   | 13.8   | 12.8   | 12.8   | 12.8   | 14.7   | 15.8   | 15.8   |
| 87.5° | 22.7   | 19.7   | 16.8   | 13.8   | 11.9   | 11.9   | 11.9   | 11.9   | 12.8   | 14.7   | 14.7   |
| 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)