

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: McGRAW-EDISON

Report Number: P451765

Luminaire Tested: **GALN-SA2C-830-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451765  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2C-830-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11135 lumens  
Efficiency: N/A  
Efficacy: 103.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

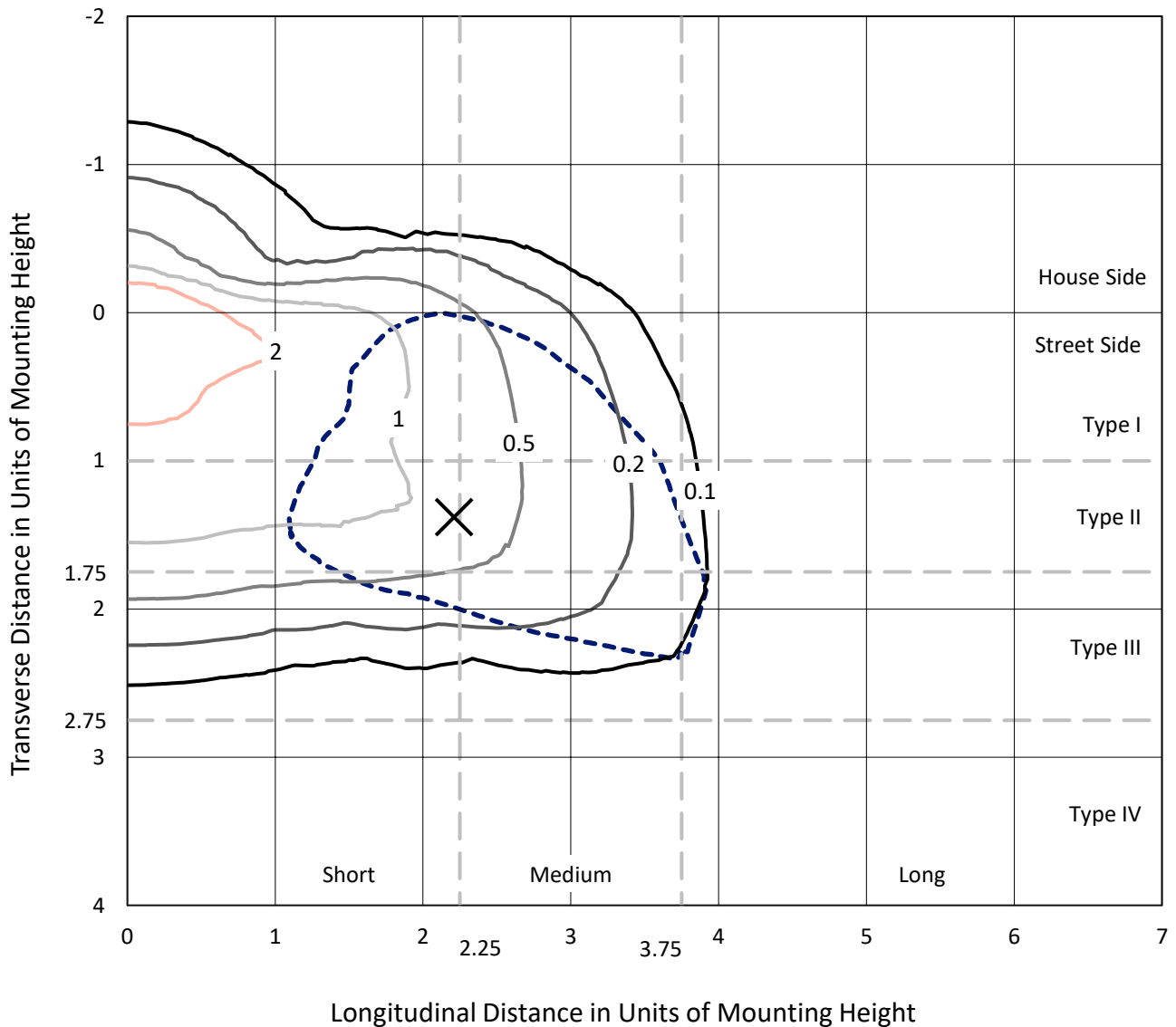
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

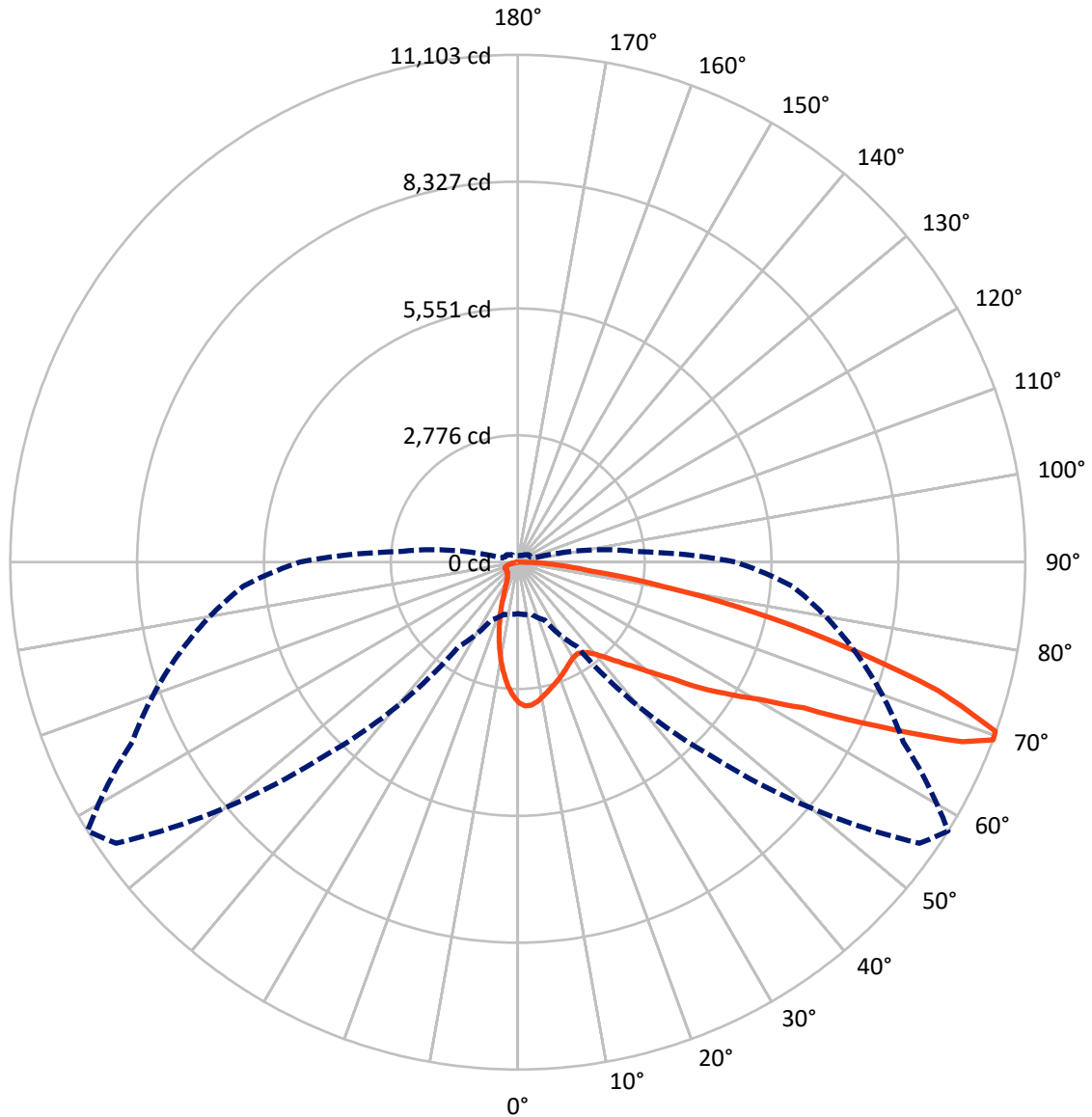
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1631.8   | 0.0    | 1631.8  |
|                    | % Fixture | 14.7     | 0.0    | 14.7    |
| <b>Street Side</b> | Lumens    | 9503.2   | 0.0    | 9503.2  |
|                    | % Fixture | 85.3     | 0.0    | 85.3    |
| <b>Total</b>       | Lumens    | 11135.0  | 0.0    | 11135.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 261.3   | 2.3       |
| 10°-20°   | 573.8   | 5.2       |
| 20°-30°   | 741.4   | 6.7       |
| 30°-40°   | 962.9   | 8.6       |
| 40°-50°   | 1399.9  | 12.6      |
| 50°-60°   | 2233.8  | 20.1      |
| 60°-70°   | 2984.1  | 26.8      |
| 70°-80°   | 1720.2  | 15.4      |
| 80°-90°   | 257.6   | 2.3       |
| 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°    | 11135.0 | 100.0     |
| 0°-180°   | 11135.0 | 100.0     |

**Coefficient of Utilization**



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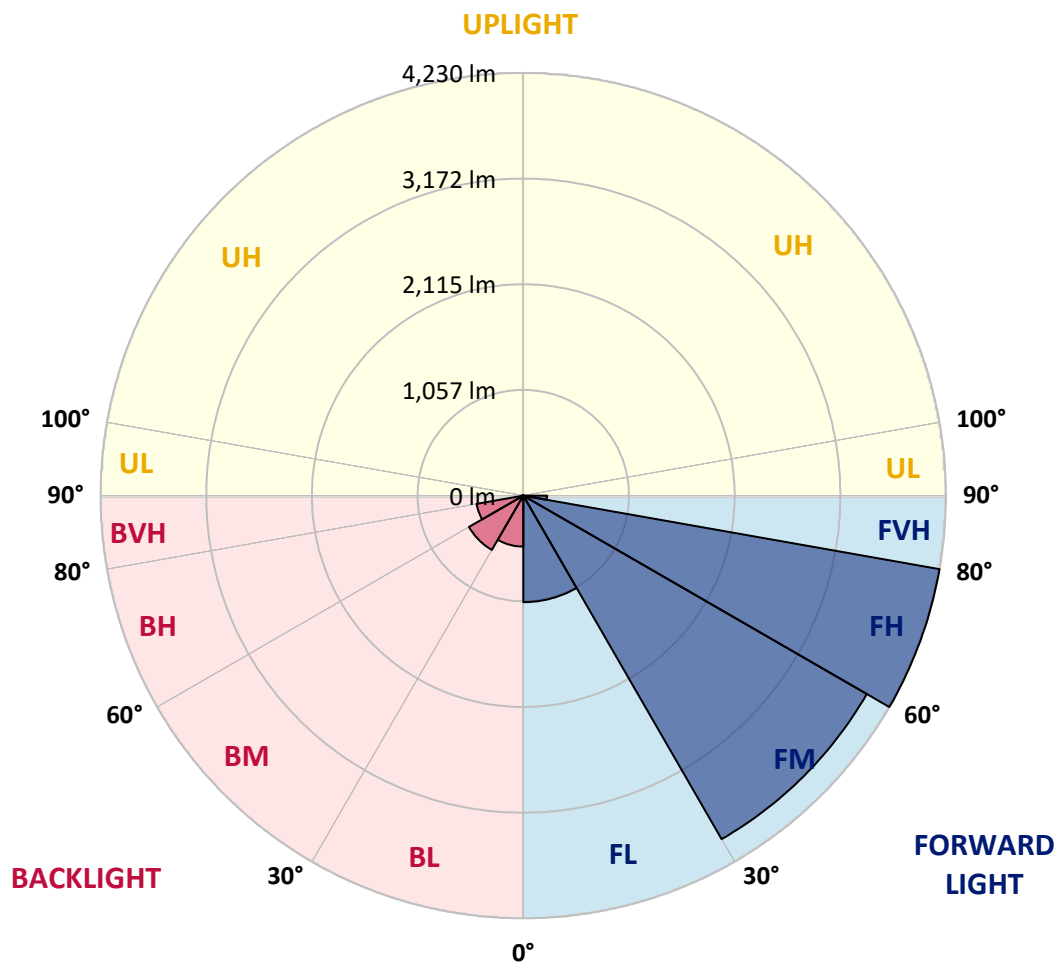
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1066.4 | 9.6       |                         |      |         |
| FM (30°-60°)   | 3969.1 | 35.6      |                         |      |         |
| FH (60°-80°)   | 4229.8 | 38.0      |                         |      | G2/5000 |
| FVH (80°-90°)  | 237.9  | 2.1       |                         |      | G3/500  |
| BL (0°-30°)    | 510.0  | 4.6       | B2/1000                 |      |         |
| BM (30°-60°)   | 627.5  | 5.6       | B1/1000                 |      |         |
| BH (60°-80°)   | 474.5  | 4.3       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 19.7   | 0.2       |                         |      | 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 III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 58°     | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|--------|--------|--------|
| 0°    | 3077.1 | 3077.1 | 3077.1 | 3077.1 | 3077.1 | 3077.1 | 3077.1  | 3077.1  | 3077.1 | 3077.1 | 3077.1 |
| 2.5°  | 3191.3 | 3200.0 | 3197.5 | 3194.4 | 3189.5 | 3175.8 | 3153.4  | 3149.7  | 3135.4 | 3105.0 | 3067.1 |
| 5°    | 3142.3 | 3149.7 | 3150.3 | 3154.7 | 3160.9 | 3158.4 | 3142.3  | 3140.4  | 3119.3 | 3078.3 | 3015.0 |
| 7.5°  | 2974.0 | 2983.9 | 3005.6 | 3029.9 | 3051.6 | 3072.1 | 3077.1  | 3080.2  | 3067.1 | 3019.9 | 2935.5 |
| 10°   | 2784.6 | 2794.5 | 2804.4 | 2840.5 | 2893.9 | 2944.8 | 2987.0  | 2992.6  | 2995.7 | 2952.2 | 2849.2 |
| 12.5° | 2574.7 | 2595.2 | 2616.3 | 2669.7 | 2741.1 | 2821.2 | 2895.7  | 2907.5  | 2928.6 | 2895.7 | 2774.6 |
| 15°   | 2396.4 | 2417.6 | 2448.0 | 2495.8 | 2582.1 | 2697.6 | 2802.6  | 2821.8  | 2863.4 | 2846.7 | 2705.1 |
| 17.5° | 2272.9 | 2280.3 | 2301.4 | 2356.1 | 2449.2 | 2570.9 | 2711.3  | 2749.8  | 2816.2 | 2811.9 | 2645.5 |
| 20°   | 2175.4 | 2184.7 | 2197.7 | 2231.3 | 2328.1 | 2456.7 | 2626.2  | 2675.9  | 2765.9 | 2780.8 | 2586.5 |
| 22.5° | 2134.4 | 2141.2 | 2139.3 | 2157.4 | 2223.2 | 2352.4 | 2539.9  | 2598.9  | 2721.2 | 2759.7 | 2531.8 |
| 25°   | 2136.9 | 2143.1 | 2133.8 | 2129.4 | 2168.5 | 2260.4 | 2449.9  | 2525.0  | 2685.2 | 2745.4 | 2482.1 |
| 27.5° | 2178.5 | 2182.8 | 2165.4 | 2148.0 | 2151.1 | 2203.3 | 2375.3  | 2458.5  | 2654.8 | 2751.7 | 2440.5 |
| 30°   | 2234.4 | 2242.4 | 2231.3 | 2210.1 | 2187.2 | 2189.7 | 2327.5  | 2409.5  | 2640.5 | 2773.4 | 2420.7 |
| 32.5° | 2306.4 | 2313.9 | 2308.9 | 2292.1 | 2262.3 | 2229.4 | 2315.7  | 2391.5  | 2641.7 | 2817.5 | 2416.3 |
| 35°   | 2382.2 | 2397.1 | 2405.1 | 2403.9 | 2379.7 | 2322.5 | 2362.3  | 2425.0  | 2671.5 | 2891.4 | 2441.8 |
| 37.5° | 2467.9 | 2480.3 | 2515.1 | 2537.4 | 2515.1 | 2448.6 | 2467.2  | 2510.7  | 2737.4 | 2998.2 | 2497.7 |
| 40°   | 2551.1 | 2569.7 | 2620.6 | 2690.2 | 2681.5 | 2623.1 | 2627.5  | 2656.0  | 2853.5 | 3157.2 | 2607.0 |
| 42.5° | 2638.0 | 2660.4 | 2749.2 | 2852.3 | 2872.8 | 2827.4 | 2839.2  | 2864.7  | 3018.7 | 3377.6 | 2794.5 |
| 45°   | 2749.8 | 2776.5 | 2885.8 | 3014.3 | 3095.1 | 3067.1 | 3100.7  | 3113.1  | 3239.8 | 3664.5 | 3041.7 |
| 47.5° | 2893.9 | 2924.9 | 3059.7 | 3219.9 | 3334.2 | 3359.6 | 3418.0  | 3410.5  | 3513.6 | 4004.2 | 3362.1 |
| 50°   | 3136.7 | 3154.1 | 3281.4 | 3444.7 | 3601.8 | 3716.7 | 3780.0  | 3791.8  | 3853.3 | 4334.6 | 3720.4 |
| 52.5° | 3425.4 | 3441.0 | 3532.9 | 3675.7 | 3872.6 | 4116.0 | 4272.5  | 4234.0  | 4248.9 | 4737.0 | 4139.6 |
| 55°   | 3750.2 | 3776.3 | 3834.7 | 3929.7 | 4184.9 | 4543.2 | 4857.5  | 4866.8  | 4701.6 | 5122.0 | 4541.4 |
| 57.5° | 4001.7 | 4045.8 | 4145.8 | 4281.2 | 4604.7 | 5018.3 | 5440.6  | 5446.8  | 5235.7 | 5533.1 | 4984.8 |
| 60°   | 3875.0 | 3927.2 | 4155.7 | 4485.5 | 5155.6 | 5847.3 | 6137.4  | 6102.0  | 5755.4 | 6001.4 | 5525.7 |
| 62.5° | 3328.6 | 3337.9 | 3670.1 | 4185.5 | 5325.1 | 6956.5 | 7174.4  | 7024.8  | 6449.1 | 6595.0 | 6075.3 |
| 65°   | 2154.3 | 2215.1 | 2478.4 | 3200.6 | 4768.0 | 7571.9 | 8991.5  | 8645.6  | 7421.6 | 7268.8 | 6535.4 |
| 67.5° | 1360.0 | 1344.5 | 1453.8 | 1827.6 | 3279.5 | 7029.7 | 10542.1 | 10487.5 | 8693.4 | 7694.2 | 6425.5 |
| 69°   | 1127.7 | 1145.1 | 1182.4 | 1401.0 | 2256.7 | 6002.0 | 10725.3 | 11102.9 | 9310.1 | 7660.7 | 6026.2 |
| 70°   | 1022.8 | 1030.9 | 1070.0 | 1242.0 | 1741.3 | 5027.0 | 10424.8 | 11086.1 | 9552.2 | 7520.3 | 5736.8 |
| 72.5° | 811.6  | 811.0  | 878.1  | 1033.3 | 1301.6 | 2869.6 | 8559.9  | 9624.9  | 9281.5 | 6867.0 | 4740.1 |
| 75°   | 616.7  | 626.6  | 700.5  | 874.4  | 1199.2 | 1568.0 | 5973.4  | 7412.3  | 7412.9 | 5423.8 | 2957.8 |
| 77.5° | 444.6  | 450.8  | 537.2  | 734.0  | 1129.6 | 1271.2 | 3978.8  | 5316.4  | 4997.8 | 2485.2 | 929.6  |
| 80°   | 291.2  | 295.0  | 360.8  | 581.3  | 1018.4 | 1199.2 | 2359.2  | 3254.0  | 2357.3 | 659.5  | 307.4  |
| 82.5° | 159.6  | 178.2  | 220.5  | 376.3  | 817.2  | 1107.9 | 1433.9  | 1646.9  | 884.3  | 293.7  | 160.2  |
| 85°   | 80.1   | 85.1   | 124.2  | 219.8  | 534.1  | 916.6  | 998.6   | 944.5   | 456.4  | 145.9  | 83.2   |
| 87.5° | 23.6   | 29.8   | 51.5   | 85.1   | 216.7  | 477.6  | 555.8   | 498.7   | 175.7  | 52.8   | 17.4   |
| 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°    | 3077.1 | 3077.1 | 3077.1 | 3077.1 | 3077.1 | 3077.1 | 3077.1 | 3077.1 | 3077.1 | 3077.1 | 3077.1 |
| 2.5°  | 3051.6 | 3040.4 | 2990.7 | 2946.0 | 2905.0 | 2861.6 | 2824.9 | 2792.6 | 2795.7 | 2796.4 | 2763.5 |
| 5°    | 2982.0 | 2956.6 | 2862.2 | 2774.0 | 2699.5 | 2605.1 | 2524.4 | 2472.2 | 2446.1 | 2411.3 | 2423.8 |
| 7.5°  | 2887.7 | 2838.6 | 2707.6 | 2561.0 | 2423.8 | 2301.4 | 2168.5 | 2077.2 | 2018.9 | 1962.4 | 1969.8 |
| 10°   | 2790.2 | 2711.3 | 2520.6 | 2326.9 | 2149.3 | 1953.7 | 1784.1 | 1638.8 | 1530.8 | 1490.4 | 1463.7 |
| 12.5° | 2690.2 | 2586.5 | 2344.3 | 2086.6 | 1841.3 | 1607.2 | 1366.8 | 1211.0 | 1091.7 | 1028.4 | 1036.5 |
| 15°   | 2598.9 | 2472.8 | 2160.5 | 1846.2 | 1527.7 | 1248.8 | 1009.1 | 860.7  | 777.5  | 760.1  | 770.0  |
| 17.5° | 2514.4 | 2349.2 | 1988.4 | 1612.7 | 1240.8 | 936.5  | 758.2  | 674.4  | 640.9  | 631.6  | 630.9  |
| 20°   | 2427.5 | 2244.3 | 1795.3 | 1363.1 | 966.9  | 726.0  | 622.2  | 583.1  | 576.9  | 580.6  | 581.3  |
| 22.5° | 2339.3 | 2114.5 | 1596.6 | 1115.3 | 770.0  | 593.7  | 544.0  | 533.4  | 538.4  | 547.1  | 548.3  |
| 25°   | 2258.0 | 2000.2 | 1405.3 | 898.0  | 614.8  | 521.6  | 497.4  | 497.4  | 508.6  | 521.6  | 522.3  |
| 27.5° | 2190.9 | 1889.7 | 1214.7 | 712.9  | 514.8  | 469.5  | 461.4  | 465.8  | 481.3  | 491.2  | 491.8  |
| 30°   | 2135.6 | 1786.6 | 1034.6 | 571.3  | 452.7  | 427.9  | 426.0  | 433.5  | 444.6  | 454.0  | 454.6  |
| 32.5° | 2094.0 | 1696.0 | 866.3  | 480.0  | 409.9  | 396.2  | 395.6  | 401.2  | 407.4  | 409.9  | 412.3  |
| 35°   | 2077.9 | 1620.8 | 712.3  | 422.3  | 381.3  | 372.6  | 372.6  | 372.0  | 374.5  | 375.7  | 376.9  |
| 37.5° | 2090.9 | 1563.1 | 593.1  | 385.0  | 360.2  | 354.0  | 350.2  | 346.5  | 345.3  | 345.3  | 345.9  |
| 40°   | 2146.2 | 1532.6 | 504.3  | 360.8  | 345.3  | 336.0  | 329.1  | 324.8  | 320.4  | 321.7  | 322.9  |
| 42.5° | 2263.6 | 1538.2 | 444.0  | 344.7  | 332.2  | 319.2  | 309.3  | 304.3  | 301.2  | 304.9  | 304.3  |
| 45°   | 2450.5 | 1594.1 | 405.5  | 333.5  | 319.2  | 302.4  | 293.1  | 288.1  | 288.1  | 293.7  | 295.6  |
| 47.5° | 2711.9 | 1700.9 | 385.0  | 324.8  | 309.3  | 289.4  | 280.1  | 276.3  | 277.6  | 286.9  | 287.5  |
| 50°   | 3031.1 | 1886.6 | 381.3  | 320.4  | 304.3  | 280.1  | 269.5  | 265.8  | 268.9  | 278.8  | 280.1  |
| 52.5° | 3383.2 | 2125.7 | 399.3  | 321.1  | 299.9  | 274.5  | 260.8  | 255.2  | 258.3  | 266.4  | 268.9  |
| 55°   | 3800.5 | 2425.0 | 445.9  | 323.5  | 293.7  | 271.4  | 254.6  | 242.2  | 245.9  | 251.5  | 252.1  |
| 57.5° | 4226.5 | 2802.6 | 527.9  | 324.2  | 288.8  | 265.8  | 244.1  | 227.9  | 227.9  | 231.6  | 233.5  |
| 60°   | 4746.9 | 3213.7 | 635.9  | 324.8  | 289.4  | 257.7  | 229.8  | 211.8  | 209.3  | 211.1  | 211.8  |
| 62.5° | 5263.6 | 3557.7 | 653.9  | 322.9  | 295.6  | 249.6  | 214.2  | 195.6  | 191.3  | 190.6  | 189.4  |
| 65°   | 5491.5 | 3493.8 | 535.9  | 314.2  | 302.4  | 244.7  | 201.8  | 180.1  | 172.6  | 170.2  | 170.2  |
| 67.5° | 5120.2 | 2955.3 | 403.0  | 302.4  | 298.1  | 239.7  | 190.0  | 167.0  | 158.4  | 153.4  | 153.4  |
| 69°   | 4771.2 | 2628.7 | 362.0  | 294.4  | 286.9  | 231.6  | 182.6  | 160.2  | 149.7  | 144.1  | 142.2  |
| 70°   | 4501.6 | 2403.9 | 344.7  | 287.5  | 276.3  | 222.3  | 177.0  | 155.3  | 143.5  | 137.2  | 136.0  |
| 72.5° | 3592.5 | 1886.0 | 301.8  | 261.4  | 235.4  | 186.9  | 157.1  | 139.7  | 128.5  | 121.7  | 119.9  |
| 75°   | 2070.4 | 1022.2 | 250.3  | 227.3  | 189.4  | 145.3  | 132.9  | 121.7  | 113.0  | 106.8  | 104.9  |
| 77.5° | 637.1  | 395.0  | 181.3  | 179.5  | 139.1  | 112.4  | 106.2  | 101.8  | 95.6   | 88.8   | 87.6   |
| 80°   | 268.3  | 201.2  | 123.0  | 121.1  | 92.5   | 78.2   | 76.4   | 75.8   | 73.3   | 67.7   | 65.8   |
| 82.5° | 147.2  | 113.6  | 85.7   | 74.5   | 55.9   | 45.3   | 47.2   | 47.8   | 46.0   | 40.4   | 36.6   |
| 85°   | 72.0   | 62.1   | 41.6   | 33.5   | 25.5   | 16.1   | 15.5   | 18.6   | 17.4   | 12.4   | 13.7   |
| 87.5° | 14.3   | 17.4   | 11.2   | 5.0    | 2.5    | 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)