

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: P455982

Luminaire Tested: **GALN-SA7B-722-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455982  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA7B-722-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21390 lumens  
Efficiency: N/A  
Efficacy: 74.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

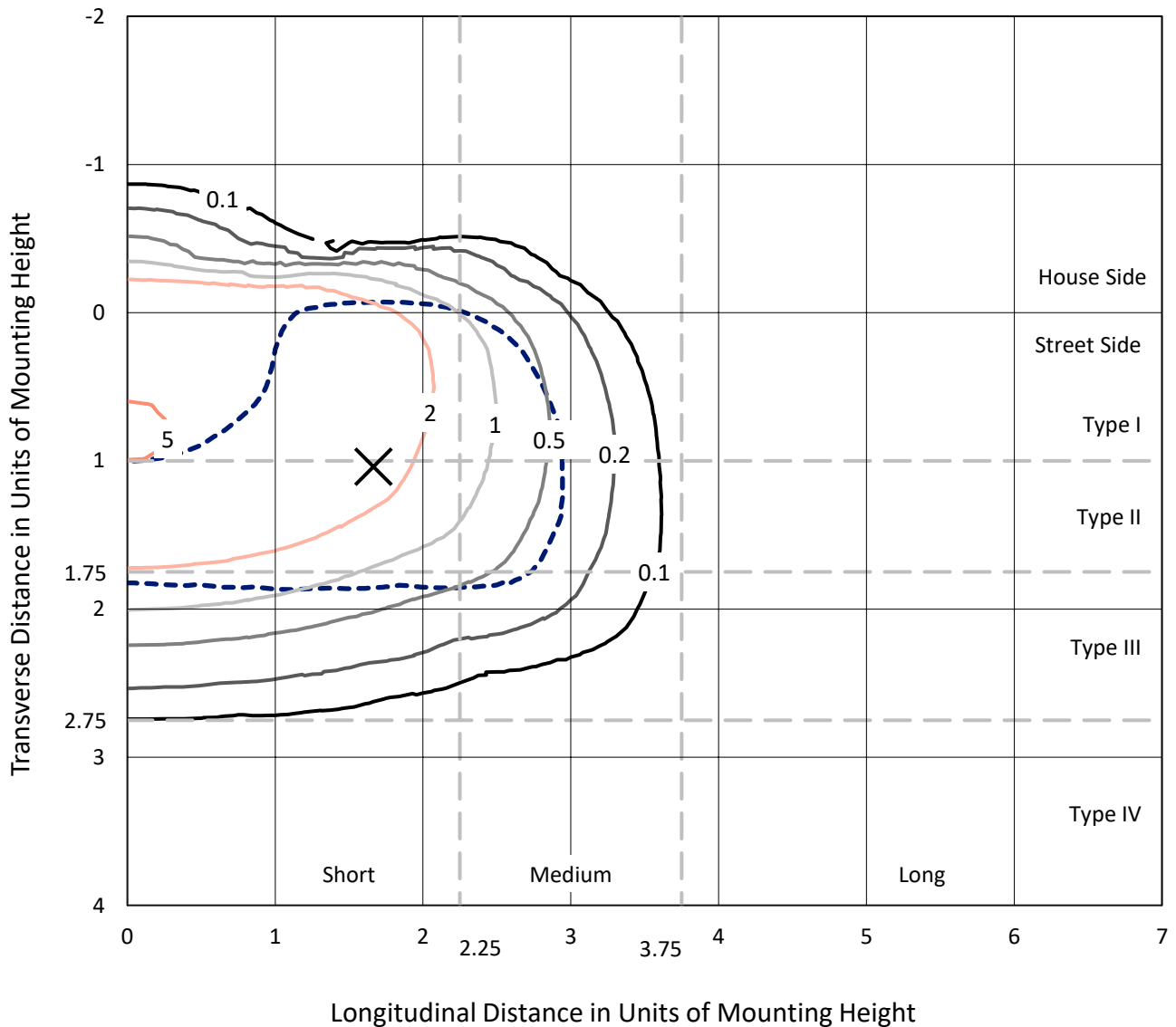
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

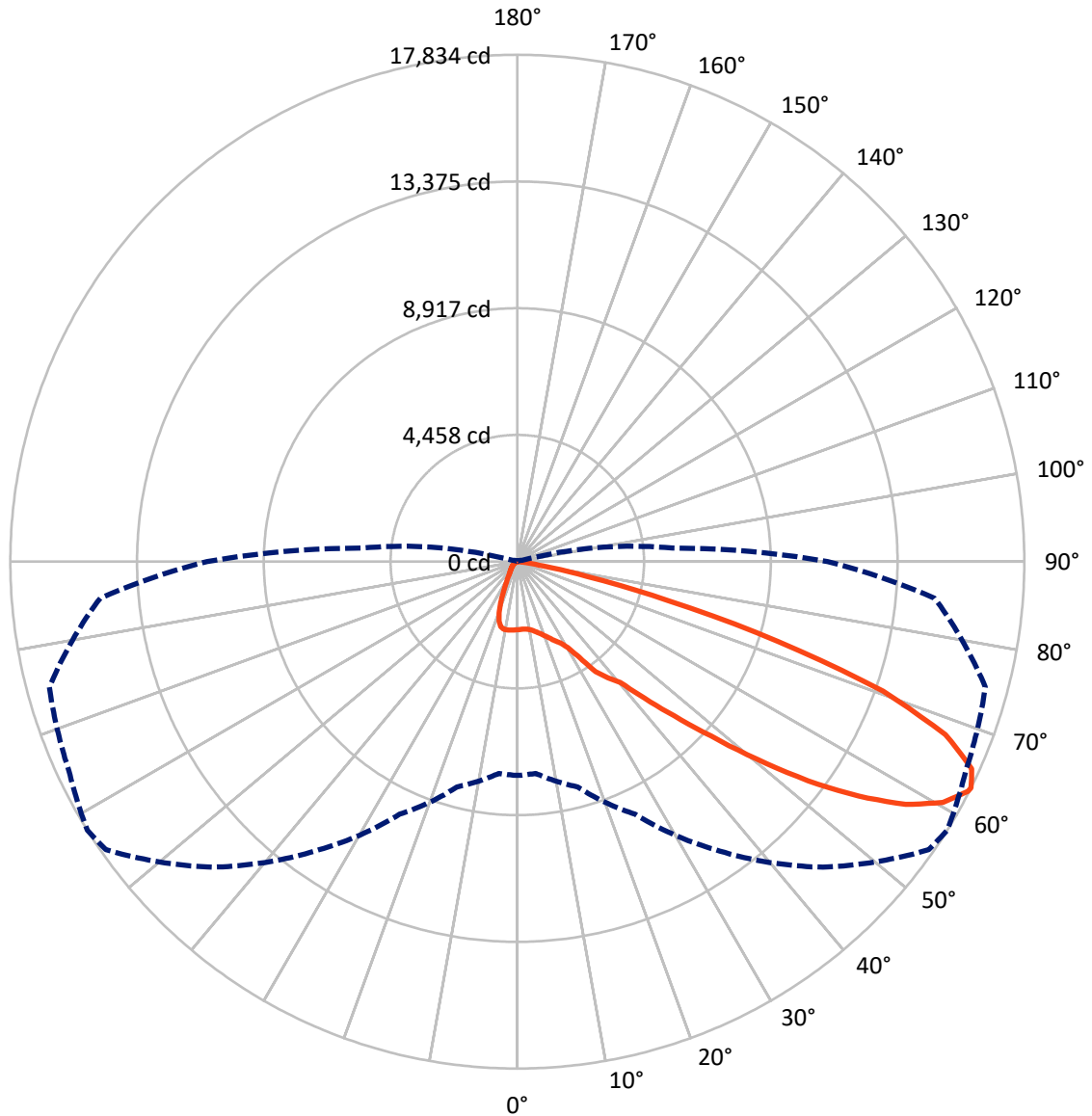
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2214.8   | 0.0    | 2214.8  |
|                    | % Fixture | 10.4     | 0.0    | 10.4    |
| <b>Street Side</b> | Lumens    | 19175.2  | 0.0    | 19175.2 |
|                    | % Fixture | 89.6     | 0.0    | 89.6    |
| <b>Total</b>       | Lumens    | 21390.0  | 0.0    | 21390.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 224.2   | 1.0       |
| 10°-20°   | 610.6   | 2.9       |
| 20°-30°   | 1059.7  | 5.0       |
| 30°-40°   | 1947.3  | 9.1       |
| 40°-50°   | 3665.7  | 17.1      |
| 50°-60°   | 6269.9  | 29.3      |
| 60°-70°   | 6003.5  | 28.1      |
| 70°-80°   | 1530.9  | 7.2       |
| 80°-90°   | 78.3    | 0.4       |
| 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°    | 21390.0 | 100.0     |
| 0°-180°   | 21390.0 | 100.0     |

**Coefficient of Utilization**



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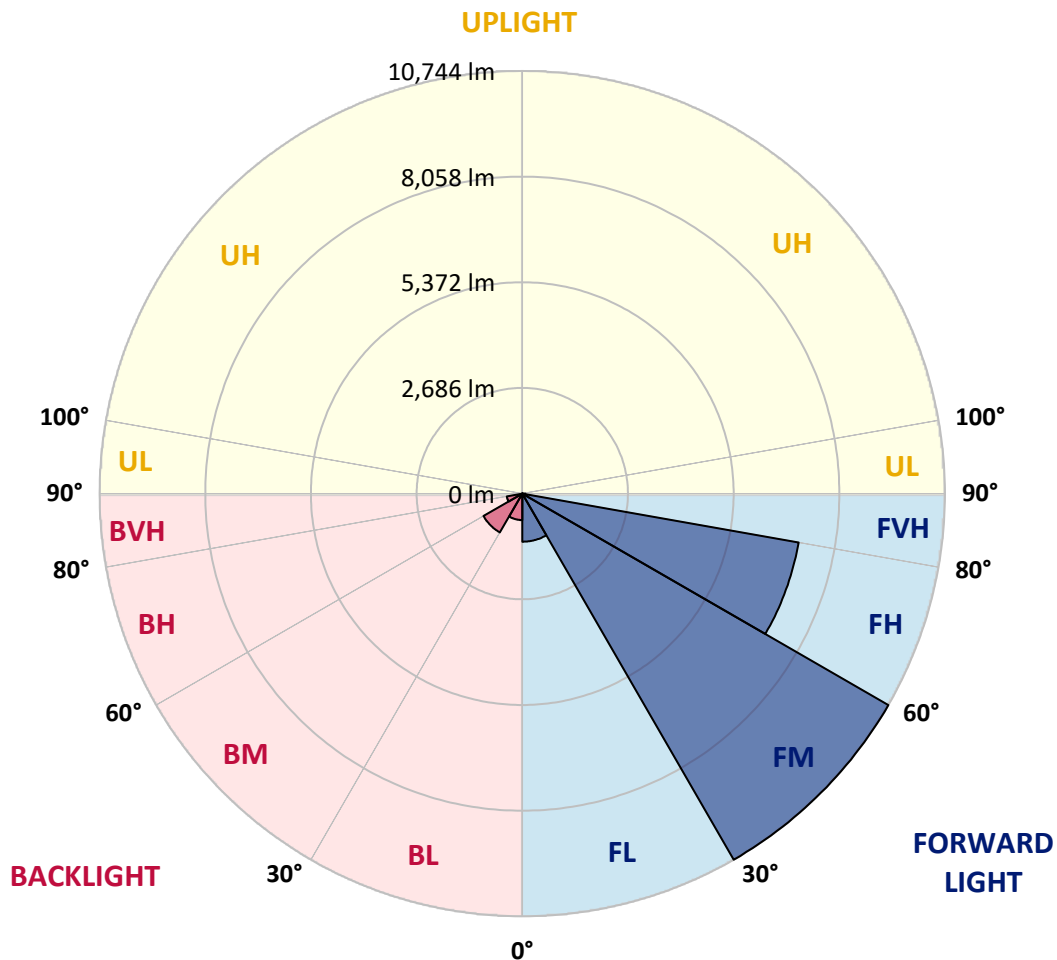
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1222.7  | 5.7       |                         |      |         |
| FM   | (30°-60°)   | 10743.8 | 50.2      |                         |      |         |
| FH   | (60°-80°)   | 7133.5  | 33.3      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 75.2    | 0.4       |                         |      | G1/100  |
| BL   | (0°-30°)    | 671.7   | 3.1       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1139.2  | 5.3       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 400.9   | 1.9       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 3.0     | 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-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 58°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2394.7  | 2394.7  | 2394.7  | 2394.7  | 2394.7  | 2394.7  | 2394.7  | 2394.7  | 2394.7  | 2394.7  | 2394.7  |
| 2.5°  | 2335.1  | 2343.2  | 2351.2  | 2354.4  | 2365.7  | 2377.0  | 2385.0  | 2383.4  | 2396.3  | 2402.7  | 2402.7  |
| 5°    | 2241.7  | 2241.7  | 2262.6  | 2282.0  | 2314.2  | 2346.4  | 2377.0  | 2383.4  | 2407.6  | 2430.1  | 2438.2  |
| 7.5°  | 2162.8  | 2167.6  | 2183.7  | 2219.2  | 2262.6  | 2319.0  | 2380.2  | 2394.7  | 2436.6  | 2486.5  | 2507.4  |
| 10°   | 2125.8  | 2129.0  | 2149.9  | 2186.9  | 2241.7  | 2319.0  | 2404.4  | 2431.7  | 2496.1  | 2575.1  | 2604.0  |
| 12.5° | 2117.7  | 2122.5  | 2143.5  | 2185.3  | 2248.1  | 2341.5  | 2457.5  | 2486.5  | 2579.9  | 2681.3  | 2724.8  |
| 15°   | 2132.2  | 2135.4  | 2156.4  | 2201.4  | 2270.7  | 2381.8  | 2528.4  | 2568.6  | 2679.7  | 2797.3  | 2853.7  |
| 17.5° | 2183.7  | 2180.5  | 2195.0  | 2232.0  | 2309.3  | 2431.7  | 2613.7  | 2662.0  | 2792.5  | 2953.5  | 2990.5  |
| 20°   | 2402.7  | 2381.8  | 2368.9  | 2336.7  | 2367.3  | 2502.6  | 2716.8  | 2787.6  | 2948.7  | 3112.9  | 3138.7  |
| 22.5° | 2874.6  | 2827.9  | 2736.1  | 2610.5  | 2513.9  | 2599.2  | 2840.8  | 2922.9  | 3130.7  | 3291.7  | 3291.7  |
| 25°   | 3475.3  | 3415.7  | 3323.9  | 3050.1  | 2813.4  | 2758.6  | 2980.9  | 3084.0  | 3328.7  | 3491.4  | 3438.2  |
| 27.5° | 4227.4  | 4180.6  | 4001.9  | 3683.0  | 3320.7  | 3037.3  | 3143.5  | 3238.6  | 3504.3  | 3700.7  | 3589.6  |
| 30°   | 4839.3  | 4816.8  | 4670.2  | 4385.2  | 3985.8  | 3571.9  | 3446.3  | 3509.1  | 3737.8  | 3964.9  | 3850.5  |
| 32.5° | 5356.3  | 5356.3  | 5206.5  | 4940.8  | 4567.1  | 4200.0  | 3960.0  | 4005.1  | 4224.1  | 4486.6  | 4274.1  |
| 35°   | 5924.7  | 5905.4  | 5784.6  | 5531.8  | 5113.1  | 4789.4  | 4691.2  | 4752.3  | 4950.4  | 5145.3  | 4621.9  |
| 37.5° | 6522.2  | 6515.8  | 6390.1  | 6145.4  | 5804.0  | 5396.5  | 5166.2  | 5182.3  | 5283.8  | 5403.0  | 5029.3  |
| 40°   | 7171.2  | 7180.9  | 7016.6  | 6865.2  | 6543.1  | 6126.0  | 5684.8  | 5583.3  | 5678.3  | 6014.9  | 5781.4  |
| 42.5° | 7937.8  | 7915.2  | 7844.4  | 7638.2  | 7378.9  | 7129.3  | 6599.5  | 6562.5  | 6646.2  | 7006.9  | 6754.1  |
| 45°   | 8828.3  | 8860.5  | 8738.1  | 8623.8  | 8449.9  | 8242.1  | 7799.3  | 7734.8  | 7826.6  | 8387.1  | 8027.9  |
| 47.5° | 9720.5  | 9689.9  | 9768.8  | 9747.9  | 9841.3  | 9686.7  | 9295.3  | 9163.3  | 9383.9  | 9915.4  | 9387.1  |
| 50°   | 10400.1 | 10433.9 | 10598.2 | 10838.1 | 11239.1 | 11326.1 | 10950.9 | 10905.8 | 11004.0 | 11345.4 | 10603.0 |
| 52.5° | 10841.3 | 10954.1 | 11211.7 | 11828.5 | 12551.6 | 13113.6 | 12828.6 | 12804.4 | 12764.2 | 12856.0 | 11765.7 |
| 55°   | 11129.6 | 11243.9 | 11580.5 | 12488.8 | 13733.7 | 14646.8 | 14661.3 | 14558.2 | 14292.5 | 14226.4 | 12852.8 |
| 57.5° | 10952.5 | 10975.0 | 11454.9 | 12669.2 | 14389.1 | 15740.2 | 16213.7 | 16110.6 | 15619.5 | 15369.8 | 13812.6 |
| 60°   | 9844.5  | 9891.2  | 10559.5 | 11986.3 | 14104.1 | 16097.7 | 17242.8 | 17196.1 | 16658.2 | 16376.4 | 14559.8 |
| 62.5° | 7881.4  | 8016.7  | 8704.3  | 10295.4 | 12778.7 | 15495.5 | 17659.9 | 17791.9 | 17373.2 | 16985.1 | 14794.9 |
| 63°   | 7520.7  | 7477.2  | 8203.5  | 9802.6  | 12427.6 | 15197.5 | 17666.3 | 17833.8 | 17405.4 | 17043.1 | 14730.5 |
| 65°   | 5567.2  | 5697.7  | 6169.5  | 7730.0  | 10342.1 | 13811.0 | 17268.5 | 17564.8 | 17286.2 | 16787.0 | 14017.1 |
| 67.5° | 3125.8  | 3119.4  | 3641.2  | 5058.3  | 7238.8  | 10833.3 | 15614.6 | 16241.1 | 16183.1 | 15063.9 | 11619.2 |
| 70°   | 1529.9  | 1554.1  | 1768.2  | 2621.8  | 4198.4  | 7474.0  | 12975.1 | 13651.5 | 13672.5 | 11831.7 | 8034.4  |
| 72.5° | 692.5   | 703.8   | 856.7   | 1277.1  | 2158.0  | 3979.3  | 8941.0  | 9586.8  | 9467.7  | 7540.0  | 4436.7  |
| 75°   | 365.6   | 389.7   | 471.9   | 642.6   | 1040.3  | 1641.0  | 4863.5  | 5488.3  | 5238.7  | 3444.7  | 1633.0  |
| 77.5° | 270.6   | 278.6   | 320.5   | 409.0   | 557.2   | 639.3   | 2098.4  | 2496.1  | 2338.3  | 1246.5  | 541.1   |
| 80°   | 198.1   | 204.5   | 238.3   | 289.9   | 351.1   | 325.3   | 790.7   | 906.7   | 813.3   | 423.5   | 165.9   |
| 82.5° | 120.8   | 122.4   | 173.9   | 215.8   | 220.6   | 182.0   | 260.9   | 280.2   | 293.1   | 238.3   | 90.2    |
| 85°   | 43.5    | 54.8    | 117.6   | 156.2   | 130.4   | 91.8    | 109.5   | 120.8   | 132.1   | 151.4   | 53.1    |
| 87.5° | 4.8     | 6.4     | 56.4    | 75.7    | 37.0    | 33.8    | 40.3    | 45.1    | 48.3    | 56.4    | 25.8    |
| 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°    | 2394.7  | 2394.7 | 2394.7 | 2394.7 | 2394.7 | 2394.7 | 2394.7 | 2394.7 | 2394.7 | 2394.7 | 2394.7 |
| 2.5°  | 2409.2  | 2415.6 | 2410.8 | 2402.7 | 2401.1 | 2396.3 | 2386.6 | 2386.6 | 2386.6 | 2389.9 | 2386.6 |
| 5°    | 2444.6  | 2449.4 | 2438.2 | 2422.1 | 2404.4 | 2381.8 | 2357.7 | 2343.2 | 2341.5 | 2338.3 | 2330.3 |
| 7.5°  | 2512.3  | 2518.7 | 2492.9 | 2454.3 | 2406.0 | 2351.2 | 2299.7 | 2251.4 | 2228.8 | 2211.1 | 2211.1 |
| 10°   | 2610.5  | 2616.9 | 2565.4 | 2496.1 | 2399.5 | 2288.4 | 2166.0 | 2054.9 | 1967.9 | 1927.7 | 1918.0 |
| 12.5° | 2728.0  | 2731.3 | 2645.9 | 2525.1 | 2365.7 | 2151.5 | 1890.6 | 1647.5 | 1478.4 | 1401.1 | 1393.0 |
| 15°   | 2856.9  | 2834.3 | 2721.6 | 2536.4 | 2269.1 | 1869.7 | 1418.8 | 1120.9 | 945.3  | 893.8  | 913.1  |
| 17.5° | 2987.3  | 2945.5 | 2779.6 | 2518.7 | 2051.7 | 1418.8 | 953.4  | 764.9  | 710.2  | 695.7  | 695.7  |
| 20°   | 3109.7  | 3051.7 | 2821.5 | 2441.4 | 1674.8 | 977.5  | 707.0  | 661.9  | 652.2  | 642.6  | 644.2  |
| 22.5° | 3232.1  | 3143.5 | 2858.5 | 2269.1 | 1248.1 | 698.9  | 632.9  | 618.4  | 605.5  | 592.6  | 591.0  |
| 25°   | 3351.3  | 3228.9 | 2873.0 | 1950.2 | 850.3  | 600.7  | 578.1  | 558.8  | 533.0  | 518.6  | 515.3  |
| 27.5° | 3475.3  | 3332.0 | 2863.3 | 1547.6 | 620.0  | 537.9  | 515.3  | 488.0  | 457.4  | 431.6  | 431.6  |
| 30°   | 3713.6  | 3528.4 | 2829.5 | 1112.8 | 521.8  | 473.5  | 444.5  | 401.0  | 367.2  | 341.4  | 339.8  |
| 32.5° | 4038.9  | 3784.5 | 2713.6 | 782.7  | 463.8  | 417.1  | 373.6  | 325.3  | 289.9  | 270.6  | 270.6  |
| 35°   | 4328.8  | 4042.2 | 2496.1 | 576.5  | 417.1  | 362.3  | 309.2  | 262.5  | 235.1  | 222.2  | 217.4  |
| 37.5° | 4770.1  | 4419.0 | 2196.6 | 468.6  | 372.0  | 314.0  | 259.3  | 215.8  | 193.3  | 183.6  | 183.6  |
| 40°   | 5431.9  | 4879.6 | 1829.4 | 410.7  | 328.5  | 267.3  | 215.8  | 182.0  | 164.3  | 153.0  | 153.0  |
| 42.5° | 6253.3  | 5443.2 | 1457.4 | 368.8  | 288.3  | 230.3  | 180.4  | 154.6  | 138.5  | 130.4  | 128.8  |
| 45°   | 7287.1  | 6037.5 | 1122.5 | 330.1  | 256.1  | 196.5  | 153.0  | 130.4  | 114.3  | 109.5  | 111.1  |
| 47.5° | 8366.1  | 6560.8 | 869.6  | 296.3  | 222.2  | 165.9  | 130.4  | 112.7  | 101.5  | 95.0   | 95.0   |
| 50°   | 9287.3  | 6921.6 | 660.3  | 257.7  | 196.5  | 140.1  | 114.3  | 101.5  | 91.8   | 88.6   | 87.0   |
| 52.5° | 10057.1 | 7026.3 | 505.7  | 223.8  | 172.3  | 120.8  | 101.5  | 91.8   | 83.7   | 78.9   | 78.9   |
| 55°   | 10712.5 | 6934.5 | 396.2  | 188.4  | 144.9  | 104.7  | 90.2   | 82.1   | 72.5   | 67.6   | 66.0   |
| 57.5° | 11095.8 | 6639.8 | 302.8  | 156.2  | 117.6  | 87.0   | 78.9   | 69.2   | 58.0   | 49.9   | 49.9   |
| 60°   | 11289.0 | 6211.4 | 231.9  | 128.8  | 90.2   | 69.2   | 64.4   | 51.5   | 40.3   | 33.8   | 32.2   |
| 62.5° | 11057.1 | 5642.9 | 175.5  | 101.5  | 67.6   | 51.5   | 43.5   | 37.0   | 25.8   | 19.3   | 19.3   |
| 63°   | 10913.8 | 5478.6 | 169.1  | 96.6   | 62.8   | 48.3   | 40.3   | 33.8   | 22.5   | 17.7   | 16.1   |
| 65°   | 9949.2  | 4762.0 | 138.5  | 77.3   | 49.9   | 33.8   | 27.4   | 24.2   | 16.1   | 8.1    | 6.4    |
| 67.5° | 7900.7  | 3642.8 | 109.5  | 58.0   | 35.4   | 24.2   | 16.1   | 14.5   | 4.8    | 0.0    | 0.0    |
| 70°   | 5341.8  | 2352.8 | 85.4   | 41.9   | 24.2   | 14.5   | 8.1    | 6.4    | 1.6    | 0.0    | 0.0    |
| 72.5° | 2786.0  | 1206.2 | 66.0   | 30.6   | 14.5   | 9.7    | 4.8    | 1.6    | 0.0    | 0.0    | 0.0    |
| 75°   | 985.6   | 410.7  | 48.3   | 19.3   | 9.7    | 4.8    | 1.6    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 297.9   | 153.0  | 30.6   | 14.5   | 6.4    | 3.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 104.7   | 56.4   | 17.7   | 9.7    | 4.8    | 1.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 51.5    | 27.4   | 11.3   | 8.1    | 4.8    | 1.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 29.0    | 17.7   | 9.7    | 8.1    | 4.8    | 3.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 20.9    | 12.9   | 9.7    | 8.1    | 6.4    | 3.2    | 1.6    | 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)