

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: P452416

Luminaire Tested: **GALN-SA3B-760-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452416  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3B-760-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16845 lumens  
Efficiency: N/A  
Efficacy: 139.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

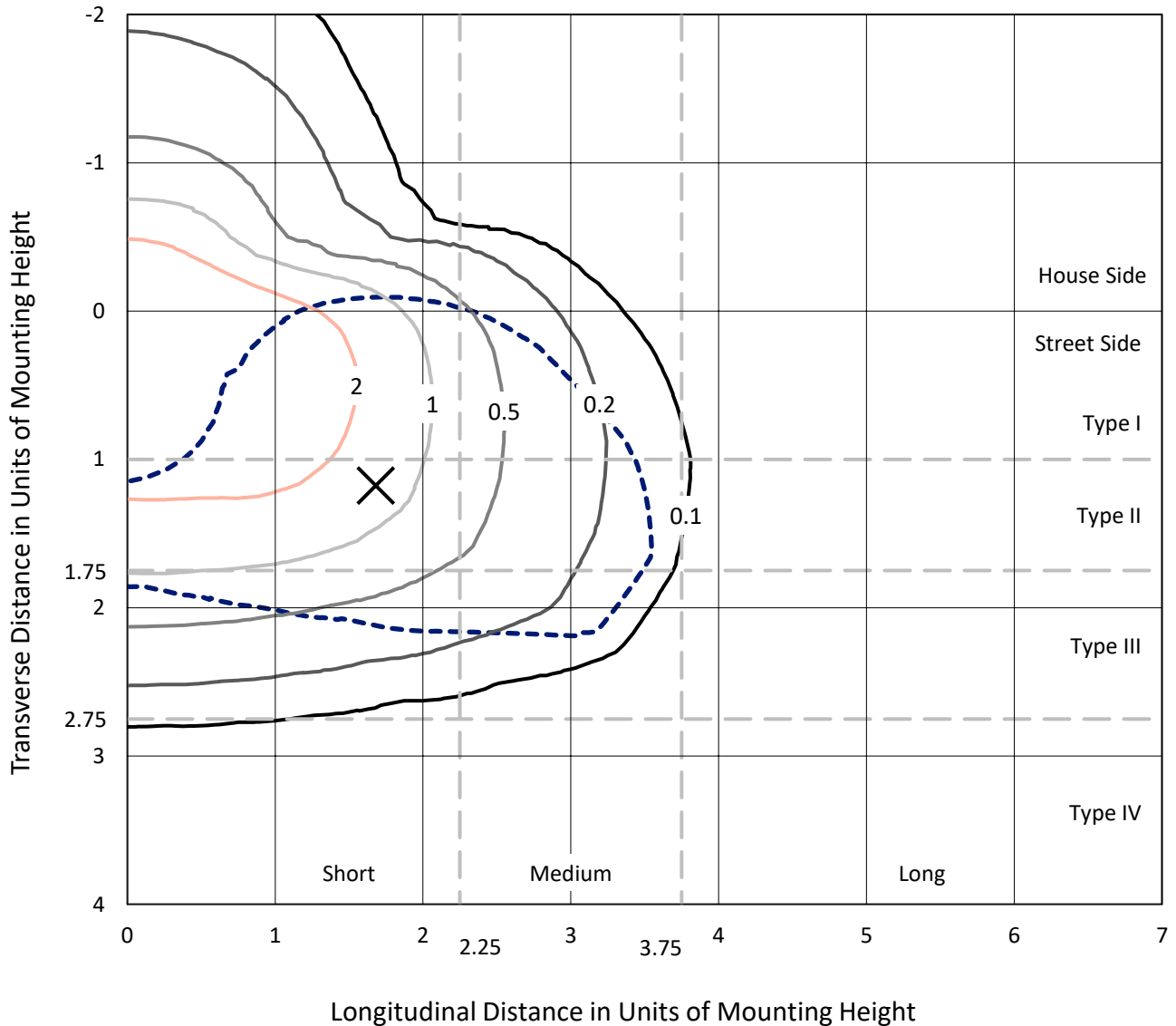
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

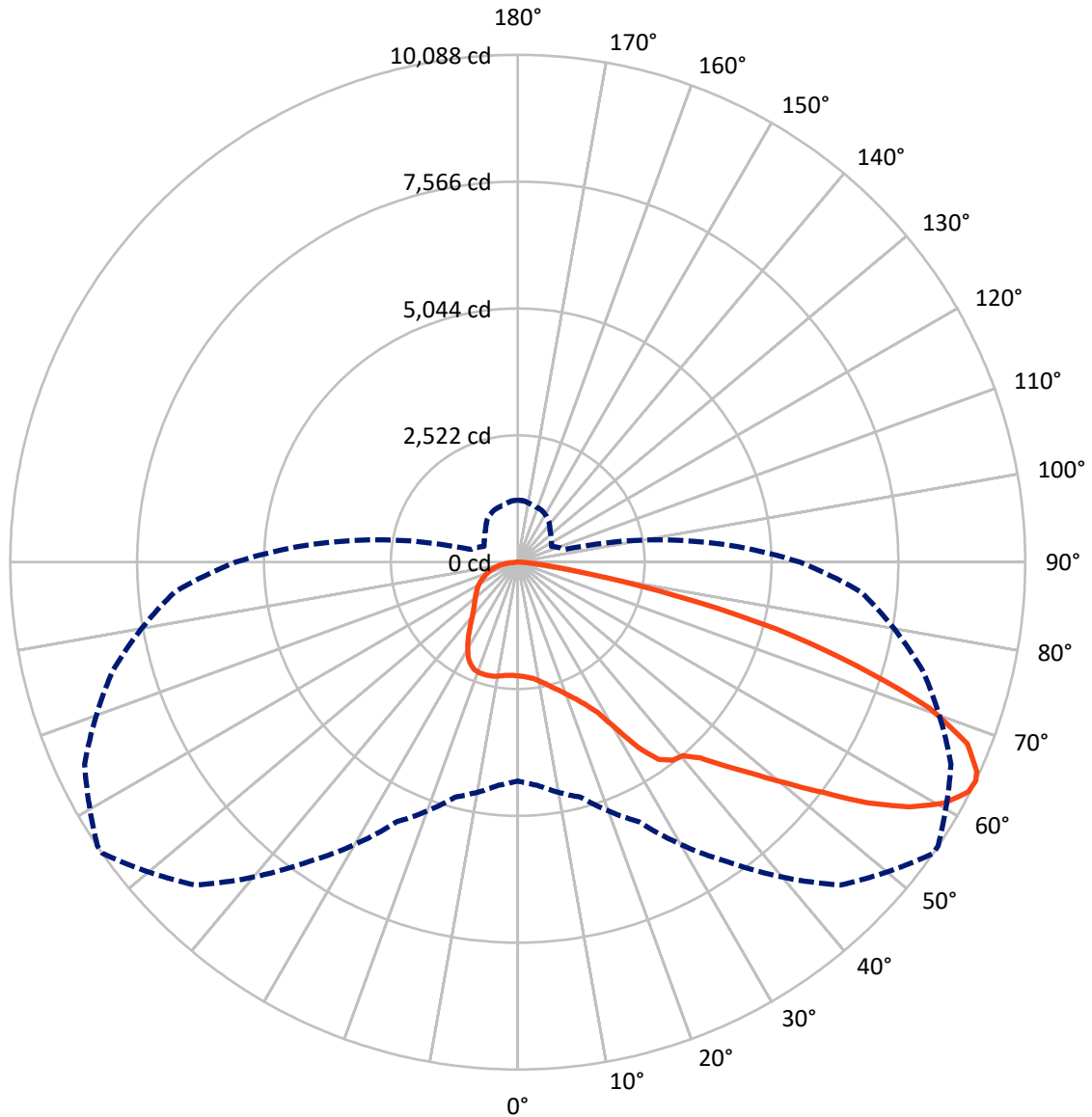
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4092.0   | 0.0    | 4092.0  |
|                    | % Fixture | 24.3     | 0.0    | 24.3    |
| <b>Street Side</b> | Lumens    | 12753.0  | 0.0    | 12753.0 |
|                    | % Fixture | 75.7     | 0.0    | 75.7    |
| <b>Total</b>       | Lumens    | 16845.0  | 0.0    | 16845.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 219.8   | 1.3       |
| 10°-20°   | 693.7   | 4.1       |
| 20°-30°   | 1234.9  | 7.3       |
| 30°-40°   | 1900.1  | 11.3      |
| 40°-50°   | 2693.5  | 16.0      |
| 50°-60°   | 3898.8  | 23.1      |
| 60°-70°   | 4034.9  | 24.0      |
| 70°-80°   | 1889.5  | 11.2      |
| 80°-90°   | 279.7   | 1.7       |
| 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°    | 16845.0 | 100.0     |
| 0°-180°   | 16845.0 | 100.0     |

**Coefficient of Utilization**



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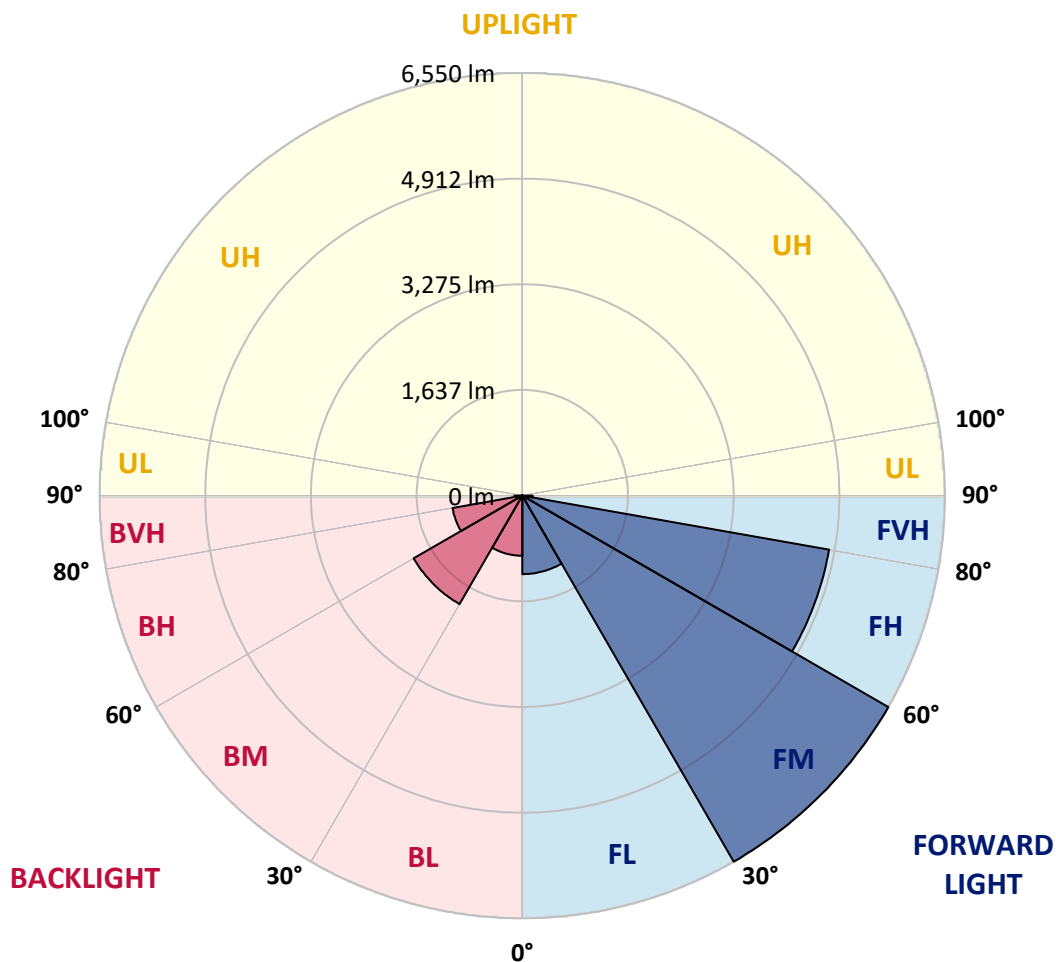
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1216.5 | 7.2       |                         |      |         |
| FM   | (30°-60°)   | 6549.8 | 38.9      |                         |      |         |
| FH   | (60°-80°)   | 4826.6 | 28.7      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 160.2  | 1.0       |                         |      | G2/225  |
| BL   | (0°-30°)    | 932.0  | 5.5       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1942.6 | 11.5      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1097.8 | 6.5       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 119.6  | 0.7       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 56°     | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|--------|--------|--------|
| 0°    | 2260.1 | 2260.1 | 2260.1 | 2260.1 | 2260.1 | 2260.1 | 2260.1  | 2260.1  | 2260.1 | 2260.1 | 2260.1 |
| 2.5°  | 2285.4 | 2284.5 | 2287.3 | 2284.5 | 2286.4 | 2279.8 | 2277.0  | 2278.9  | 2276.1 | 2271.4 | 2262.9 |
| 5°    | 2313.6 | 2312.7 | 2313.6 | 2309.9 | 2311.7 | 2308.0 | 2301.4  | 2303.3  | 2298.6 | 2288.3 | 2276.1 |
| 7.5°  | 2361.5 | 2357.7 | 2357.7 | 2356.8 | 2353.0 | 2347.4 | 2342.7  | 2340.8  | 2336.1 | 2323.0 | 2304.2 |
| 10°   | 2423.5 | 2423.5 | 2424.4 | 2416.9 | 2421.6 | 2411.3 | 2406.6  | 2405.6  | 2389.7 | 2372.8 | 2346.5 |
| 12.5° | 2505.2 | 2509.9 | 2507.0 | 2503.3 | 2501.4 | 2497.6 | 2481.7  | 2485.4  | 2467.6 | 2438.5 | 2406.6 |
| 15°   | 2606.6 | 2614.1 | 2609.4 | 2607.5 | 2602.8 | 2588.7 | 2582.2  | 2579.3  | 2555.9 | 2513.6 | 2471.4 |
| 17.5° | 2740.8 | 2731.5 | 2727.7 | 2723.0 | 2703.3 | 2693.0 | 2681.7  | 2679.8  | 2659.2 | 2609.4 | 2543.7 |
| 20°   | 2858.2 | 2871.4 | 2863.8 | 2859.2 | 2839.4 | 2819.7 | 2811.3  | 2808.4  | 2790.6 | 2736.1 | 2631.0 |
| 22.5° | 2998.1 | 3000.9 | 3003.8 | 2992.5 | 2983.1 | 2968.1 | 2953.0  | 2948.4  | 2941.8 | 2885.4 | 2756.8 |
| 25°   | 3147.4 | 3158.7 | 3149.3 | 3138.0 | 3126.8 | 3125.8 | 3139.9  | 3138.0  | 3135.2 | 3080.7 | 2923.9 |
| 27.5° | 3390.6 | 3400.9 | 3403.8 | 3391.5 | 3348.4 | 3352.1 | 3384.0  | 3394.4  | 3437.6 | 3347.4 | 3139.0 |
| 30°   | 3527.7 | 3538.0 | 3561.5 | 3607.5 | 3676.1 | 3736.1 | 3813.1  | 3836.6  | 3877.9 | 3708.0 | 3394.4 |
| 32.5° | 3612.2 | 3616.0 | 3658.2 | 3743.7 | 3949.3 | 4173.7 | 4383.1  | 4391.5  | 4417.8 | 4179.3 | 3628.2 |
| 35°   | 3745.5 | 3748.4 | 3782.2 | 3876.1 | 4117.4 | 4491.1 | 4815.0  | 4825.3  | 4803.7 | 4325.8 | 3737.1 |
| 37.5° | 3909.9 | 3917.4 | 3939.0 | 4016.9 | 4305.2 | 4756.8 | 4994.4  | 4986.8  | 4795.3 | 4442.2 | 3929.6 |
| 40°   | 4149.3 | 4149.3 | 4123.9 | 4229.1 | 4503.3 | 4908.9 | 5057.3  | 5044.1  | 4993.4 | 4779.3 | 4222.5 |
| 42.5° | 4360.6 | 4356.8 | 4416.9 | 4488.3 | 4751.2 | 5143.7 | 5321.1  | 5342.7  | 5426.3 | 5202.8 | 4555.9 |
| 45°   | 4635.7 | 4652.6 | 4686.4 | 4816.0 | 5172.8 | 5544.6 | 5773.7  | 5794.4  | 5912.7 | 5701.4 | 4945.5 |
| 47.5° | 4913.6 | 4919.2 | 5025.3 | 5198.1 | 5694.8 | 6088.3 | 6276.0  | 6309.8  | 6417.8 | 6284.5 | 5365.3 |
| 50°   | 5110.8 | 5164.3 | 5334.3 | 5606.6 | 6232.9 | 6751.2 | 6897.6  | 6938.0  | 7128.6 | 6919.2 | 5854.5 |
| 52.5° | 5319.2 | 5371.8 | 5579.3 | 5994.4 | 6850.7 | 7429.1 | 7609.4  | 7636.6  | 7834.7 | 7561.5 | 6354.9 |
| 55°   | 5497.6 | 5546.5 | 5782.2 | 6338.0 | 7342.7 | 8121.1 | 8447.9  | 8416.0  | 8510.8 | 8056.3 | 6740.8 |
| 57.5° | 5526.8 | 5566.2 | 5862.9 | 6557.7 | 7712.7 | 8714.5 | 9183.1  | 9201.9  | 9092.0 | 8426.3 | 7059.1 |
| 60°   | 5301.4 | 5382.2 | 5723.0 | 6534.3 | 7878.9 | 9127.7 | 9731.4  | 9744.6  | 9432.8 | 8615.9 | 7185.9 |
| 62.5° | 4902.3 | 4893.9 | 5306.1 | 6156.8 | 7646.0 | 9221.6 | 10054.4 | 10040.4 | 9566.2 | 8524.9 | 7062.9 |
| 64°   | 4351.2 | 4452.6 | 4837.6 | 5692.9 | 7270.4 | 9077.0 | 10088.2 | 10080.7 | 9502.3 | 8335.2 | 6853.5 |
| 65°   | 4015.0 | 4009.4 | 4389.7 | 5313.6 | 6896.7 | 8859.1 | 10028.2 | 10017.8 | 9369.0 | 8165.2 | 6691.1 |
| 67.5° | 2898.6 | 2911.7 | 3287.3 | 4100.5 | 5606.6 | 8007.5 | 9636.6  | 9598.1  | 8843.2 | 7601.9 | 6073.2 |
| 70°   | 1755.9 | 1763.4 | 2058.2 | 2720.2 | 4024.4 | 6473.2 | 8686.4  | 8688.3  | 8038.5 | 6760.6 | 5169.0 |
| 72.5° | 924.9  | 944.6  | 1062.9 | 1544.6 | 2444.1 | 4541.8 | 7046.9  | 7214.1  | 6901.4 | 5769.9 | 4083.6 |
| 75°   | 514.6  | 517.4  | 600.9  | 761.5  | 1246.9 | 2541.8 | 5296.7  | 5344.6  | 5463.8 | 4644.1 | 3019.7 |
| 77.5° | 392.5  | 398.1  | 424.4  | 492.0  | 678.9  | 1178.4 | 3205.6  | 3446.0  | 3850.7 | 3274.2 | 1723.0 |
| 80°   | 318.3  | 323.9  | 346.5  | 386.9  | 451.6  | 558.7  | 1489.2  | 1618.8  | 2061.0 | 1453.5 | 672.3  |
| 82.5° | 247.9  | 244.1  | 273.2  | 299.5  | 328.6  | 330.5  | 611.3   | 676.1   | 839.4  | 625.4  | 291.1  |
| 85°   | 184.0  | 184.0  | 207.5  | 201.9  | 212.2  | 193.4  | 269.5   | 297.7   | 336.1  | 265.7  | 135.2  |
| 87.5° | 73.2   | 80.8   | 136.2  | 122.1  | 94.8   | 76.1   | 99.5    | 105.2   | 116.4  | 104.2  | 56.3   |
| 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°    | 2260.1 | 2260.1 | 2260.1 | 2260.1 | 2260.1 | 2260.1 | 2260.1 | 2260.1 | 2260.1 | 2260.1 | 2260.1 |
| 2.5°  | 2263.8 | 2266.7 | 2260.1 | 2255.4 | 2253.5 | 2250.7 | 2247.9 | 2248.8 | 2252.6 | 2256.3 | 2255.4 |
| 5°    | 2275.1 | 2276.1 | 2264.8 | 2259.2 | 2255.4 | 2251.6 | 2251.6 | 2254.5 | 2262.0 | 2267.6 | 2267.6 |
| 7.5°  | 2303.3 | 2303.3 | 2287.3 | 2277.0 | 2271.4 | 2264.8 | 2262.9 | 2263.8 | 2269.5 | 2277.0 | 2277.9 |
| 10°   | 2347.4 | 2343.7 | 2323.0 | 2307.0 | 2296.7 | 2280.7 | 2266.7 | 2259.2 | 2262.0 | 2266.7 | 2266.7 |
| 12.5° | 2400.9 | 2390.6 | 2364.3 | 2342.7 | 2317.4 | 2287.3 | 2258.2 | 2243.2 | 2242.3 | 2246.9 | 2245.1 |
| 15°   | 2458.2 | 2446.9 | 2410.3 | 2370.9 | 2326.8 | 2282.6 | 2247.9 | 2226.3 | 2209.4 | 2204.7 | 2215.0 |
| 17.5° | 2524.9 | 2501.4 | 2450.7 | 2396.2 | 2330.5 | 2273.2 | 2218.8 | 2174.6 | 2144.6 | 2136.1 | 2139.0 |
| 20°   | 2605.6 | 2574.6 | 2506.1 | 2420.7 | 2327.7 | 2239.4 | 2154.9 | 2095.8 | 2046.9 | 2031.9 | 2033.8 |
| 22.5° | 2717.4 | 2663.8 | 2563.4 | 2432.9 | 2304.2 | 2175.6 | 2058.2 | 1981.2 | 1922.1 | 1898.6 | 1912.7 |
| 25°   | 2844.1 | 2785.9 | 2617.8 | 2430.0 | 2243.2 | 2073.2 | 1943.7 | 1843.2 | 1789.7 | 1754.9 | 1762.4 |
| 27.5° | 3018.8 | 2915.5 | 2676.1 | 2404.7 | 2155.9 | 1948.4 | 1798.1 | 1703.3 | 1654.5 | 1636.6 | 1645.1 |
| 30°   | 3242.2 | 3083.6 | 2739.0 | 2336.1 | 2017.8 | 1790.6 | 1651.6 | 1589.7 | 1560.6 | 1538.0 | 1545.5 |
| 32.5° | 3403.8 | 3201.9 | 2753.0 | 2220.7 | 1868.5 | 1646.9 | 1552.1 | 1506.1 | 1474.2 | 1452.6 | 1457.3 |
| 35°   | 3519.2 | 3302.3 | 2746.5 | 2078.9 | 1712.7 | 1528.6 | 1473.2 | 1435.7 | 1384.0 | 1337.1 | 1328.6 |
| 37.5° | 3674.2 | 3428.2 | 2698.6 | 1923.9 | 1558.7 | 1448.8 | 1409.4 | 1339.9 | 1265.7 | 1202.8 | 1200.0 |
| 40°   | 3911.7 | 3575.6 | 2596.2 | 1741.8 | 1427.2 | 1389.7 | 1341.8 | 1251.6 | 1171.8 | 1121.1 | 1117.4 |
| 42.5° | 4156.8 | 3711.7 | 2457.3 | 1550.2 | 1319.2 | 1327.7 | 1269.5 | 1180.3 | 1131.5 | 1098.6 | 1094.8 |
| 45°   | 4456.3 | 3859.1 | 2307.0 | 1384.0 | 1239.4 | 1269.5 | 1206.6 | 1154.9 | 1125.8 | 1104.2 | 1098.6 |
| 47.5° | 4780.3 | 4010.3 | 2138.0 | 1234.7 | 1171.8 | 1216.0 | 1180.3 | 1156.8 | 1140.8 | 1125.8 | 1119.2 |
| 50°   | 5129.6 | 4179.3 | 1979.3 | 1114.6 | 1110.8 | 1160.6 | 1177.5 | 1169.0 | 1159.6 | 1154.9 | 1149.3 |
| 52.5° | 5512.7 | 4352.1 | 1846.0 | 1030.0 | 1057.3 | 1121.1 | 1178.4 | 1185.0 | 1185.0 | 1182.2 | 1178.4 |
| 55°   | 5771.8 | 4472.3 | 1710.8 | 961.5  | 1002.8 | 1089.2 | 1176.5 | 1201.9 | 1211.3 | 1207.5 | 1203.8 |
| 57.5° | 5963.4 | 4538.0 | 1540.8 | 902.3  | 956.8  | 1058.2 | 1166.2 | 1203.8 | 1213.1 | 1217.8 | 1216.0 |
| 60°   | 6002.8 | 4477.0 | 1318.3 | 840.4  | 907.0  | 1013.1 | 1128.6 | 1175.6 | 1187.8 | 1216.9 | 1219.7 |
| 62.5° | 5825.3 | 4289.2 | 1096.7 | 779.3  | 846.0  | 944.6  | 1077.9 | 1143.7 | 1168.1 | 1213.1 | 1217.8 |
| 64°   | 5607.5 | 4078.9 | 973.7  | 740.8  | 806.6  | 906.1  | 1052.6 | 1135.2 | 1167.1 | 1227.2 | 1231.0 |
| 65°   | 5447.9 | 3925.8 | 896.7  | 716.4  | 781.2  | 880.7  | 1038.5 | 1138.0 | 1175.6 | 1248.8 | 1254.5 |
| 67.5° | 4860.1 | 3399.1 | 741.8  | 659.2  | 721.1  | 837.6  | 1041.3 | 1161.5 | 1173.7 | 1257.3 | 1256.3 |
| 70°   | 4021.6 | 2706.1 | 621.6  | 606.6  | 662.9  | 802.8  | 1030.0 | 1123.9 | 1124.9 | 1180.3 | 1167.1 |
| 72.5° | 3011.3 | 2000.0 | 539.0  | 552.1  | 598.1  | 720.2  | 972.8  | 1073.2 | 1057.3 | 1064.8 | 1051.6 |
| 75°   | 2068.5 | 1323.0 | 463.8  | 493.9  | 530.5  | 636.6  | 892.0  | 974.6  | 949.3  | 939.9  | 930.5  |
| 77.5° | 1104.2 | 731.5  | 385.9  | 436.6  | 461.0  | 550.2  | 778.4  | 858.2  | 831.9  | 795.3  | 783.1  |
| 80°   | 446.9  | 344.6  | 310.8  | 361.5  | 375.6  | 443.2  | 647.9  | 697.7  | 677.9  | 614.1  | 593.4  |
| 82.5° | 224.4  | 206.6  | 244.1  | 284.5  | 285.4  | 316.4  | 481.7  | 528.6  | 484.5  | 406.6  | 388.7  |
| 85°   | 117.4  | 121.1  | 168.1  | 200.0  | 176.5  | 170.9  | 289.2  | 320.2  | 293.9  | 255.4  | 230.0  |
| 87.5° | 42.3   | 48.8   | 88.3   | 87.3   | 62.0   | 32.9   | 63.8   | 31.0   | 16.9   | 10.3   | 13.1   |
| 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)