

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: P452764

Luminaire Tested: **GALN-SA3D-727-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452764  
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-SA3D-727-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19152 lumens  
Efficiency: N/A  
Efficacy: 104.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

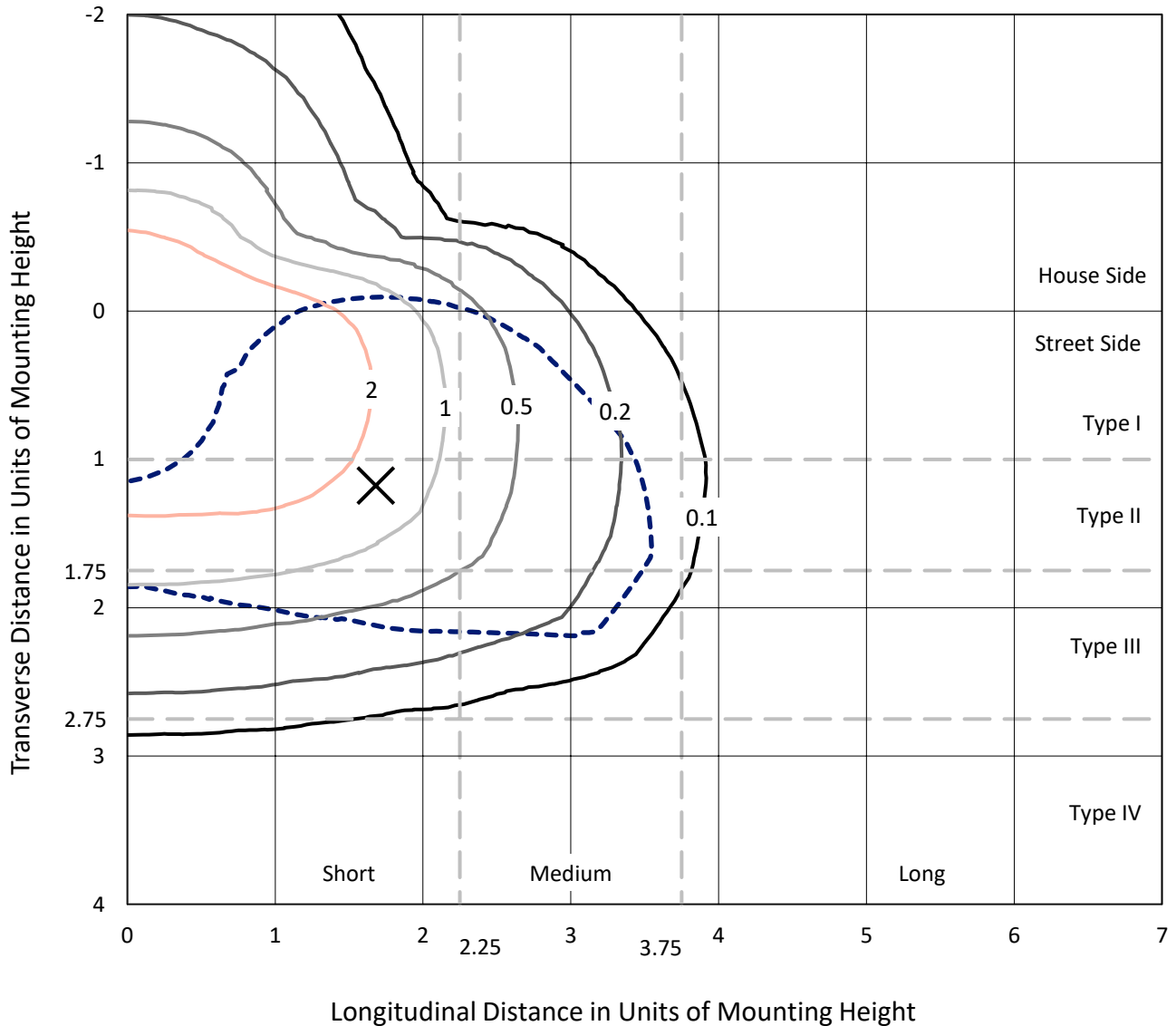
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

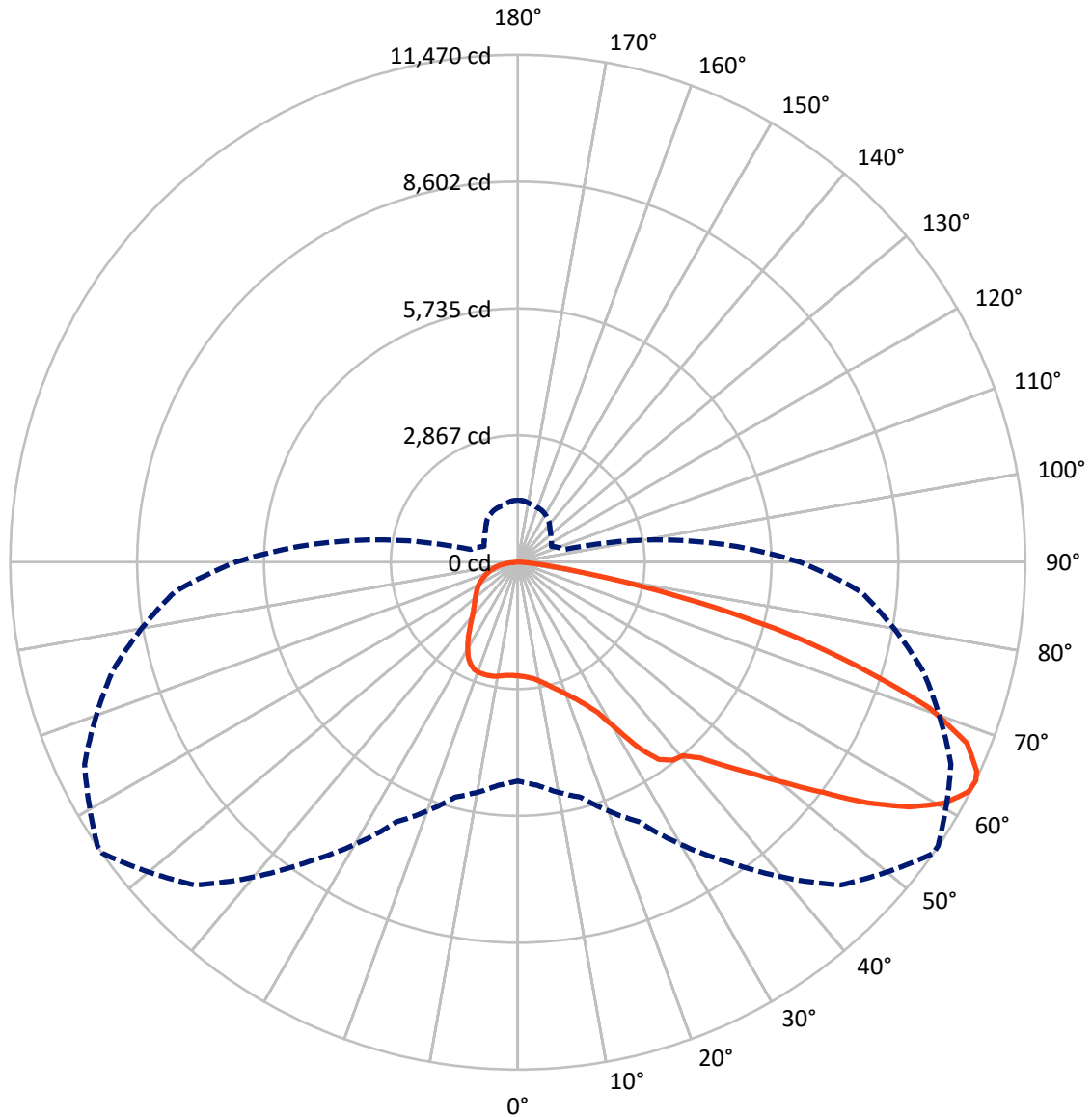
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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    | 4652.4   | 0.0    | 4652.4  |
|                    | % Fixture | 24.3     | 0.0    | 24.3    |
| <b>Street Side</b> | Lumens    | 14499.6  | 0.0    | 14499.6 |
|                    | % Fixture | 75.7     | 0.0    | 75.7    |
| <b>Total</b>       | Lumens    | 19152.0  | 0.0    | 19152.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 250.0   | 1.3       |
| 10°-20°   | 788.7   | 4.1       |
| 20°-30°   | 1404.1  | 7.3       |
| 30°-40°   | 2160.3  | 11.3      |
| 40°-50°   | 3062.4  | 16.0      |
| 50°-60°   | 4432.8  | 23.1      |
| 60°-70°   | 4587.4  | 24.0      |
| 70°-80°   | 2148.3  | 11.2      |
| 80°-90°   | 318.0   | 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°    | 19152.0 | 100.0     |
| 0°-180°   | 19152.0 | 100.0     |

**Coefficient of Utilization**



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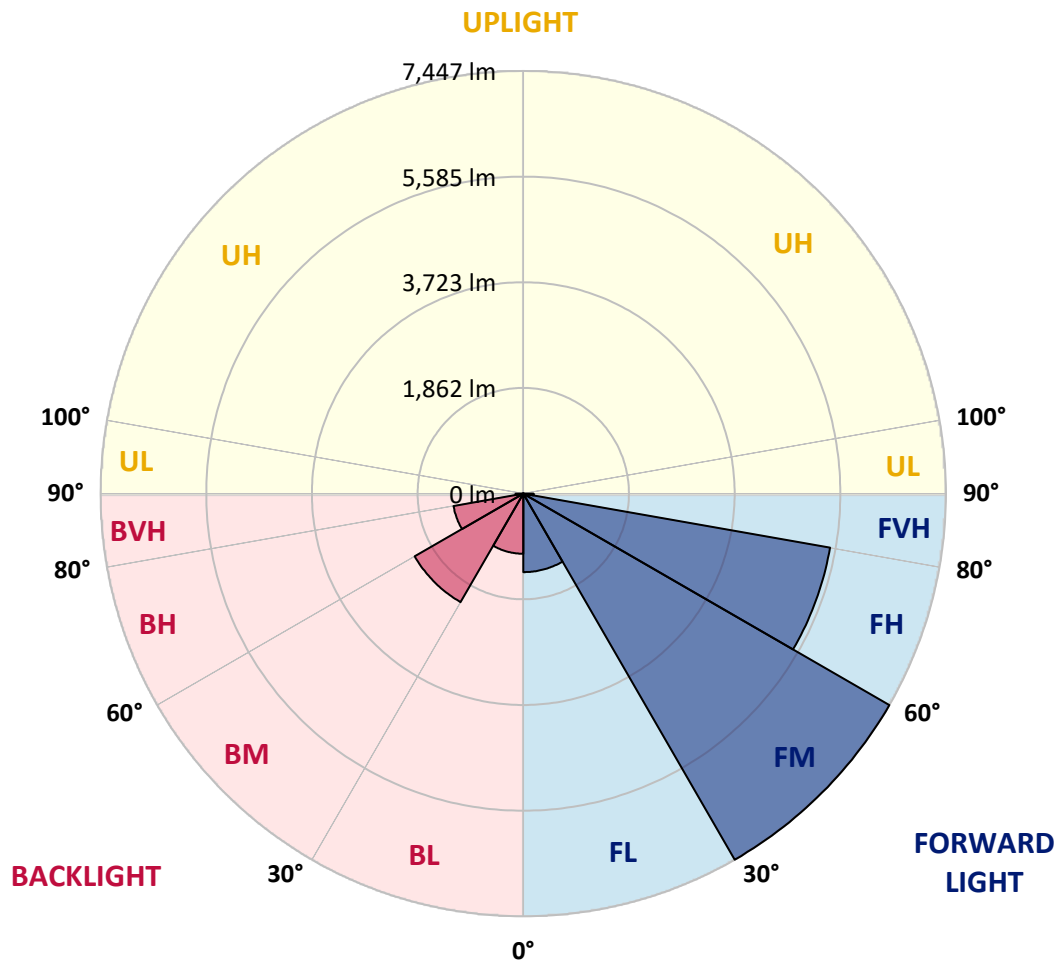
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1383.1 | 7.2       |                         |      |         |
| FM   | (30°-60°)   | 7446.8 | 38.9      |                         |      |         |
| FH   | (60°-80°)   | 5487.6 | 28.7      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 182.1  | 1.0       |                         |      | G2/225  |
| BL   | (0°-30°)    | 1059.6 | 5.5       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2208.7 | 11.5      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1248.2 | 6.5       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 135.9  | 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°    | 2569.6 | 2569.6 | 2569.6 | 2569.6 | 2569.6 | 2569.6  | 2569.6  | 2569.6  | 2569.6  | 2569.6 | 2569.6 |
| 2.5°  | 2598.4 | 2597.4 | 2600.6 | 2597.4 | 2599.5 | 2592.0  | 2588.8  | 2591.0  | 2587.8  | 2582.4 | 2572.8 |
| 5°    | 2630.5 | 2629.4 | 2630.5 | 2626.2 | 2628.3 | 2624.1  | 2616.6  | 2618.7  | 2613.4  | 2601.6 | 2587.8 |
| 7.5°  | 2684.9 | 2680.6 | 2680.6 | 2679.6 | 2675.3 | 2668.9  | 2663.6  | 2661.4  | 2656.1  | 2641.1 | 2619.8 |
| 10°   | 2755.4 | 2755.4 | 2756.4 | 2747.9 | 2753.2 | 2741.5  | 2736.2  | 2735.1  | 2716.9  | 2697.7 | 2667.8 |
| 12.5° | 2848.3 | 2853.6 | 2850.4 | 2846.1 | 2844.0 | 2839.7  | 2821.6  | 2825.8  | 2805.6  | 2772.5 | 2736.2 |
| 15°   | 2963.6 | 2972.1 | 2966.8 | 2964.6 | 2959.3 | 2943.3  | 2935.8  | 2932.6  | 2905.9  | 2857.9 | 2809.8 |
| 17.5° | 3116.2 | 3105.5 | 3101.3 | 3095.9 | 3073.5 | 3061.8  | 3049.0  | 3046.8  | 3023.3  | 2966.8 | 2892.0 |
| 20°   | 3249.7 | 3264.6 | 3256.1 | 3250.7 | 3228.3 | 3205.9  | 3196.3  | 3193.1  | 3172.8  | 3110.9 | 2991.3 |
| 22.5° | 3408.7 | 3411.9 | 3415.1 | 3402.3 | 3391.6 | 3374.6  | 3357.5  | 3352.1  | 3344.7  | 3280.6 | 3134.4 |
| 25°   | 3578.5 | 3591.3 | 3580.6 | 3567.8 | 3555.0 | 3553.9  | 3569.9  | 3567.8  | 3564.6  | 3502.7 | 3324.4 |
| 27.5° | 3855.0 | 3866.7 | 3869.9 | 3856.0 | 3806.9 | 3811.2  | 3847.5  | 3859.2  | 3908.3  | 3805.9 | 3568.9 |
| 30°   | 4010.8 | 4022.6 | 4049.3 | 4101.6 | 4179.5 | 4247.8  | 4335.4  | 4362.1  | 4409.0  | 4215.8 | 3859.2 |
| 32.5° | 4106.9 | 4111.2 | 4159.2 | 4256.4 | 4490.2 | 4745.3  | 4983.4  | 4993.0  | 5022.9  | 4751.7 | 4125.1 |
| 35°   | 4258.5 | 4261.7 | 4300.1 | 4406.9 | 4681.3 | 5106.1  | 5474.5  | 5486.2  | 5461.6  | 4918.3 | 4248.9 |
| 37.5° | 4445.3 | 4453.9 | 4478.4 | 4567.0 | 4894.8 | 5408.3  | 5678.4  | 5669.8  | 5452.0  | 5050.6 | 4467.7 |
| 40°   | 4717.6 | 4717.6 | 4688.7 | 4808.3 | 5120.0 | 5581.2  | 5749.9  | 5734.9  | 5677.3  | 5433.9 | 4800.8 |
| 42.5° | 4957.8 | 4953.5 | 5021.8 | 5102.9 | 5401.9 | 5848.1  | 6049.9  | 6074.4  | 6169.4  | 5915.4 | 5179.8 |
| 45°   | 5270.6 | 5289.8 | 5328.2 | 5475.5 | 5881.2 | 6304.0  | 6564.4  | 6587.9  | 6722.4  | 6482.2 | 5622.8 |
| 47.5° | 5586.5 | 5593.0 | 5713.6 | 5910.0 | 6474.8 | 6922.1  | 7135.6  | 7174.0  | 7296.8  | 7145.2 | 6100.0 |
| 50°   | 5810.7 | 5871.6 | 6064.8 | 6374.4 | 7086.5 | 7675.8  | 7842.3  | 7888.2  | 8104.9  | 7866.9 | 6656.2 |
| 52.5° | 6047.7 | 6107.5 | 6343.4 | 6815.3 | 7788.9 | 8446.5  | 8651.5  | 8682.5  | 8907.7  | 8597.1 | 7225.3 |
| 55°   | 6250.6 | 6306.1 | 6574.0 | 7206.0 | 8348.3 | 9233.3  | 9604.9  | 9568.6  | 9676.4  | 9159.7 | 7664.0 |
| 57.5° | 6283.7 | 6328.5 | 6665.9 | 7455.8 | 8768.9 | 9908.0  | 10440.8 | 10462.1 | 10337.2 | 9580.3 | 8025.9 |
| 60°   | 6027.5 | 6119.3 | 6506.8 | 7429.2 | 8957.9 | 10377.8 | 11064.2 | 11079.2 | 10724.7 | 9795.9 | 8170.0 |
| 62.5° | 5573.7 | 5564.1 | 6032.8 | 7000.0 | 8693.2 | 10484.5 | 11431.4 | 11415.4 | 10876.3 | 9692.4 | 8030.2 |
| 64°   | 4947.1 | 5062.4 | 5500.1 | 6472.6 | 8266.1 | 10320.1 | 11469.9 | 11461.3 | 10803.7 | 9476.7 | 7792.1 |
| 65°   | 4564.9 | 4558.5 | 4990.8 | 6041.3 | 7841.2 | 10072.4 | 11401.6 | 11389.8 | 10652.1 | 9283.5 | 7607.4 |
| 67.5° | 3295.6 | 3310.5 | 3737.5 | 4662.0 | 6374.4 | 9104.2  | 10956.4 | 10912.6 | 10054.3 | 8643.0 | 6905.0 |
| 70°   | 1996.3 | 2004.9 | 2340.1 | 3092.7 | 4575.6 | 7359.8  | 9876.0  | 9878.1  | 9139.4  | 7686.4 | 5876.9 |
| 72.5° | 1051.5 | 1074.0 | 1208.5 | 1756.1 | 2778.9 | 5163.8  | 8012.0  | 8202.1  | 7846.6  | 6560.2 | 4642.8 |
| 75°   | 585.0  | 588.2  | 683.2  | 865.8  | 1417.7 | 2889.9  | 6022.1  | 6076.6  | 6212.1  | 5280.2 | 3433.3 |
| 77.5° | 446.2  | 452.6  | 482.5  | 559.4  | 771.8  | 1339.8  | 3644.7  | 3918.0  | 4378.1  | 3722.6 | 1959.0 |
| 80°   | 361.9  | 368.3  | 393.9  | 439.8  | 513.5  | 635.2   | 1693.2  | 1840.5  | 2343.3  | 1652.6 | 764.4  |
| 82.5° | 281.8  | 277.6  | 310.7  | 340.6  | 373.6  | 375.8   | 695.0   | 768.6   | 954.4   | 711.0  | 330.9  |
| 85°   | 209.2  | 209.2  | 235.9  | 229.5  | 241.3  | 219.9   | 306.4   | 338.4   | 382.2   | 302.1  | 153.7  |
| 87.5° | 83.3   | 91.8   | 154.8  | 138.8  | 107.8  | 86.5    | 113.2   | 119.6   | 132.4   | 118.5  | 64.1   |
| 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°    | 2569.6 | 2569.6 | 2569.6 | 2569.6 | 2569.6 | 2569.6 | 2569.6 | 2569.6 | 2569.6 | 2569.6 | 2569.6 |
| 2.5°  | 2573.9 | 2577.1 | 2569.6 | 2564.3 | 2562.1 | 2558.9 | 2555.7 | 2556.8 | 2561.1 | 2565.4 | 2564.3 |
| 5°    | 2586.7 | 2587.8 | 2575.0 | 2568.6 | 2564.3 | 2560.0 | 2560.0 | 2563.2 | 2571.8 | 2578.2 | 2578.2 |
| 7.5°  | 2618.7 | 2618.7 | 2600.6 | 2588.8 | 2582.4 | 2575.0 | 2572.8 | 2573.9 | 2580.3 | 2588.8 | 2589.9 |
| 10°   | 2668.9 | 2664.6 | 2641.1 | 2623.0 | 2611.3 | 2593.1 | 2577.1 | 2568.6 | 2571.8 | 2577.1 | 2577.1 |
| 12.5° | 2729.8 | 2718.0 | 2688.1 | 2663.6 | 2634.7 | 2600.6 | 2567.5 | 2550.4 | 2549.3 | 2554.7 | 2552.5 |
| 15°   | 2794.9 | 2782.1 | 2740.4 | 2695.6 | 2645.4 | 2595.2 | 2555.7 | 2531.2 | 2512.0 | 2506.6 | 2518.4 |
| 17.5° | 2870.7 | 2844.0 | 2786.3 | 2724.4 | 2649.7 | 2584.6 | 2522.6 | 2472.5 | 2438.3 | 2428.7 | 2431.9 |
| 20°   | 2962.5 | 2927.3 | 2849.3 | 2752.2 | 2646.5 | 2546.1 | 2450.1 | 2382.8 | 2327.3 | 2310.2 | 2312.3 |
| 22.5° | 3089.5 | 3028.7 | 2914.4 | 2766.1 | 2619.8 | 2473.5 | 2340.1 | 2252.6 | 2185.3 | 2158.6 | 2174.6 |
| 25°   | 3233.6 | 3167.5 | 2976.4 | 2762.8 | 2550.4 | 2357.2 | 2209.9 | 2095.6 | 2034.8 | 1995.3 | 2003.8 |
| 27.5° | 3432.2 | 3314.8 | 3042.6 | 2734.0 | 2451.1 | 2215.2 | 2044.4 | 1936.6 | 1881.0 | 1860.8 | 1870.4 |
| 30°   | 3686.3 | 3505.9 | 3114.1 | 2656.1 | 2294.2 | 2035.8 | 1877.8 | 1807.4 | 1774.3 | 1748.7 | 1757.2 |
| 32.5° | 3869.9 | 3640.4 | 3130.1 | 2524.8 | 2124.4 | 1872.5 | 1764.7 | 1712.4 | 1676.1 | 1651.5 | 1656.9 |
| 35°   | 4001.2 | 3754.6 | 3122.6 | 2363.6 | 1947.2 | 1738.0 | 1675.0 | 1632.3 | 1573.6 | 1520.2 | 1510.6 |
| 37.5° | 4177.4 | 3897.7 | 3068.2 | 2187.4 | 1772.2 | 1647.2 | 1602.4 | 1523.4 | 1439.1 | 1367.5 | 1364.3 |
| 40°   | 4447.5 | 4065.3 | 2951.8 | 1980.3 | 1622.7 | 1580.0 | 1525.5 | 1423.1 | 1332.3 | 1274.7 | 1270.4 |
| 42.5° | 4726.1 | 4220.1 | 2793.8 | 1762.5 | 1499.9 | 1509.5 | 1443.3 | 1341.9 | 1286.4 | 1249.0 | 1244.8 |
| 45°   | 5066.6 | 4387.7 | 2623.0 | 1573.6 | 1409.2 | 1443.3 | 1371.8 | 1313.1 | 1280.0 | 1255.5 | 1249.0 |
| 47.5° | 5435.0 | 4559.6 | 2430.8 | 1403.8 | 1332.3 | 1382.5 | 1341.9 | 1315.2 | 1297.1 | 1280.0 | 1272.5 |
| 50°   | 5832.1 | 4751.7 | 2250.4 | 1267.2 | 1262.9 | 1319.5 | 1338.7 | 1329.1 | 1318.4 | 1313.1 | 1306.7 |
| 52.5° | 6267.7 | 4948.1 | 2098.8 | 1171.1 | 1202.1 | 1274.7 | 1339.8 | 1347.3 | 1347.3 | 1344.1 | 1339.8 |
| 55°   | 6562.3 | 5084.8 | 1945.1 | 1093.2 | 1140.2 | 1238.4 | 1337.7 | 1366.5 | 1377.2 | 1372.9 | 1368.6 |
| 57.5° | 6780.1 | 5159.5 | 1751.9 | 1025.9 | 1087.8 | 1203.1 | 1325.9 | 1368.6 | 1379.3 | 1384.6 | 1382.5 |
| 60°   | 6824.9 | 5090.1 | 1498.9 | 955.5  | 1031.3 | 1151.9 | 1283.2 | 1336.6 | 1350.5 | 1383.6 | 1386.8 |
| 62.5° | 6623.2 | 4876.6 | 1246.9 | 886.1  | 961.9  | 1074.0 | 1225.6 | 1300.3 | 1328.0 | 1379.3 | 1384.6 |
| 64°   | 6375.5 | 4637.5 | 1107.1 | 842.3  | 917.0  | 1030.2 | 1196.7 | 1290.7 | 1327.0 | 1395.3 | 1399.6 |
| 65°   | 6194.0 | 4463.5 | 1019.5 | 814.5  | 888.2  | 1001.4 | 1180.7 | 1293.9 | 1336.6 | 1419.9 | 1426.3 |
| 67.5° | 5525.7 | 3864.6 | 843.4  | 749.4  | 819.9  | 952.3  | 1183.9 | 1320.6 | 1334.5 | 1429.5 | 1428.4 |
| 70°   | 4572.4 | 3076.7 | 706.7  | 689.6  | 753.7  | 912.8  | 1171.1 | 1277.9 | 1278.9 | 1341.9 | 1327.0 |
| 72.5° | 3423.7 | 2273.9 | 612.8  | 627.7  | 680.0  | 818.8  | 1106.0 | 1220.2 | 1202.1 | 1210.6 | 1195.7 |
| 75°   | 2351.8 | 1504.2 | 527.4  | 561.5  | 603.2  | 723.8  | 1014.2 | 1108.1 | 1079.3 | 1068.6 | 1058.0 |
| 77.5° | 1255.5 | 831.6  | 438.8  | 496.4  | 524.2  | 625.6  | 885.0  | 975.8  | 945.9  | 904.2  | 890.3  |
| 80°   | 508.2  | 391.8  | 353.4  | 411.0  | 427.0  | 503.9  | 736.6  | 793.2  | 770.8  | 698.2  | 674.7  |
| 82.5° | 255.1  | 234.9  | 277.6  | 323.5  | 324.5  | 359.8  | 547.7  | 601.0  | 550.9  | 462.3  | 442.0  |
| 85°   | 133.4  | 137.7  | 191.1  | 227.4  | 200.7  | 194.3  | 328.8  | 364.0  | 334.1  | 290.4  | 261.6  |
| 87.5° | 48.0   | 55.5   | 100.4  | 99.3   | 70.5   | 37.4   | 72.6   | 35.2   | 19.2   | 11.7   | 14.9   |
| 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)