

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: P527568

Luminaire Tested: **GALN-SA2C-750-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527568  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2C-750-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12054 lumens  
Efficiency: N/A  
Efficacy: 111.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

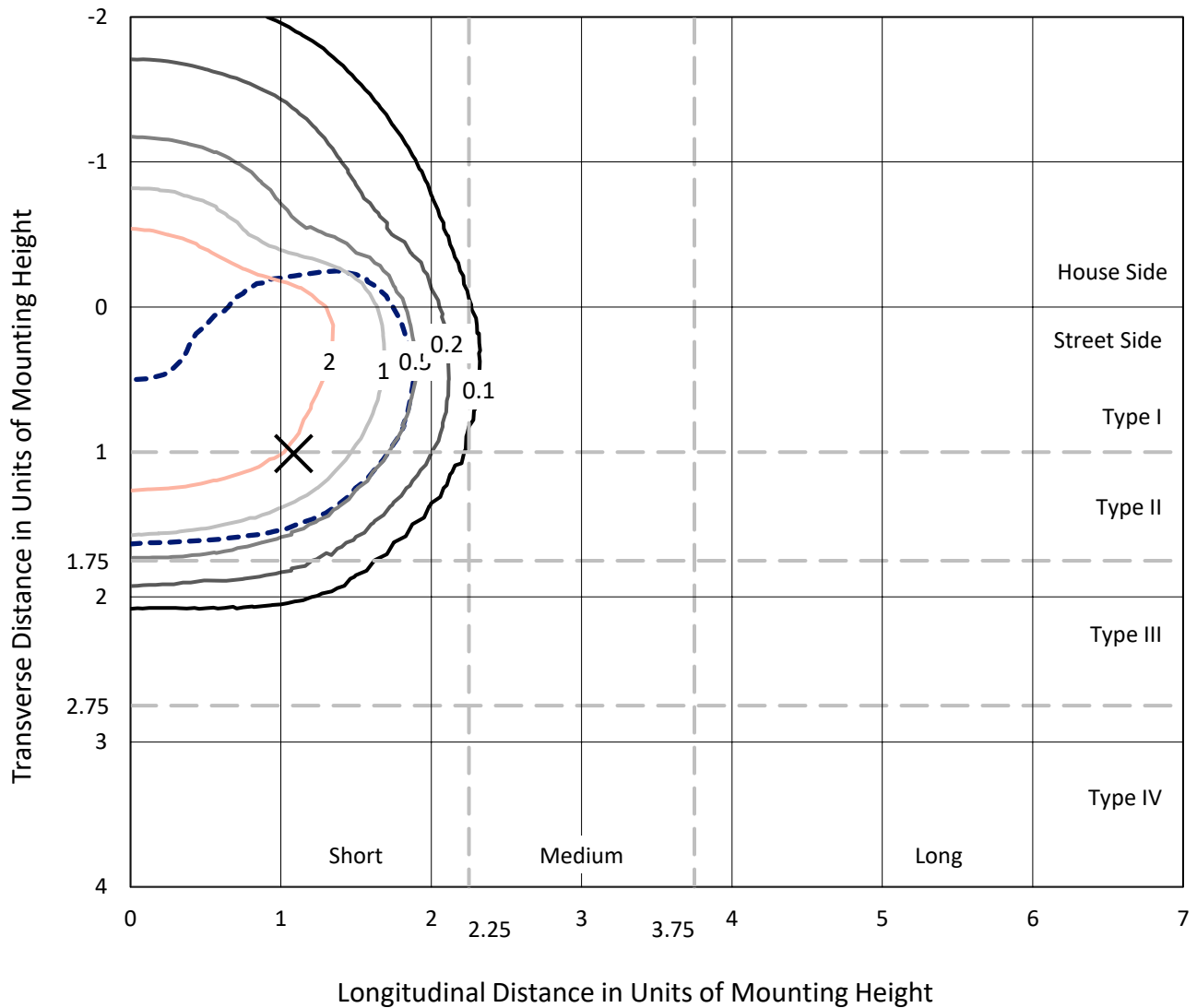
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

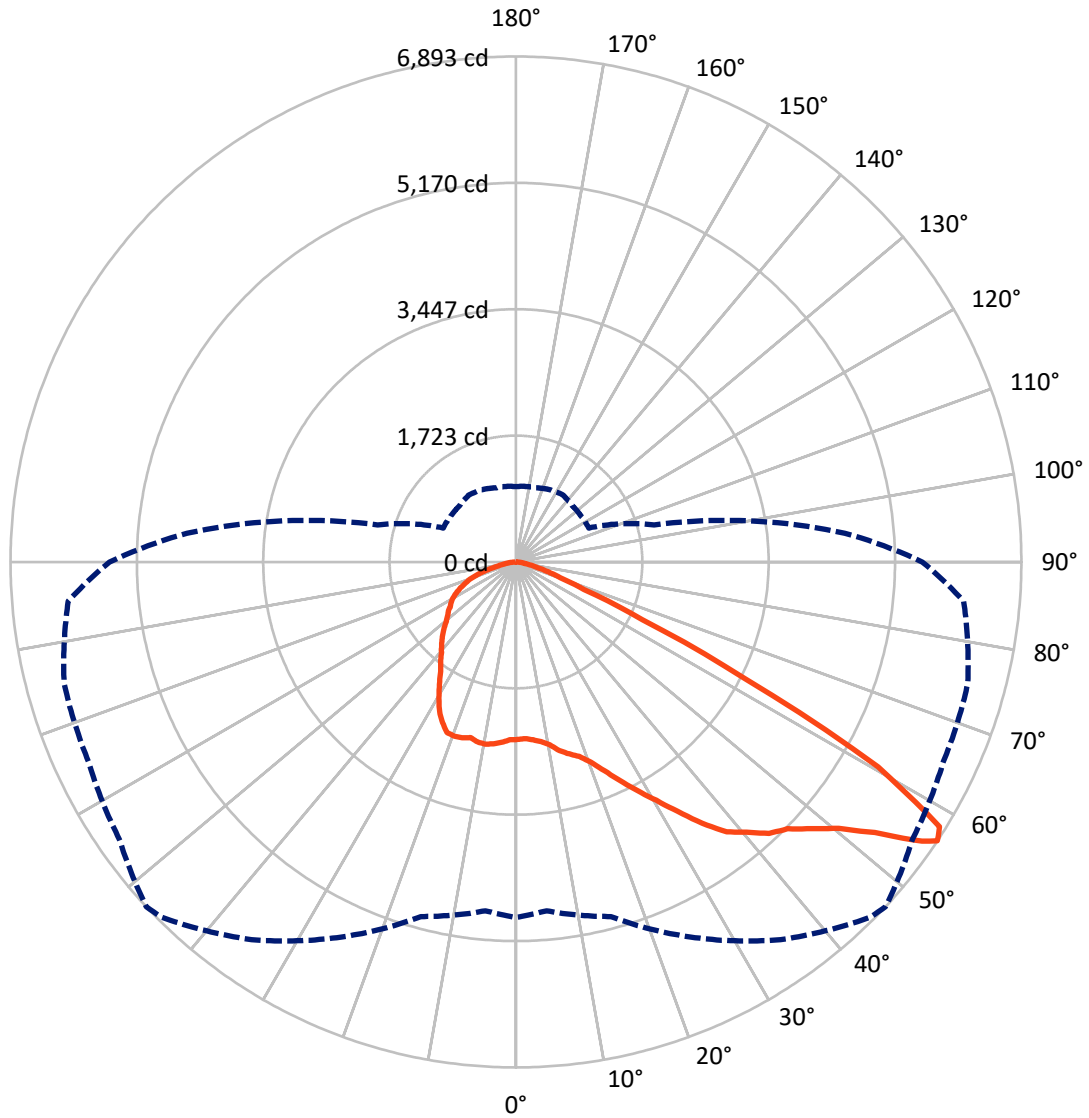
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3819.8   | 0.0    | 3819.8  |
|                    | % Fixture | 31.7     | 0.0    | 31.7    |
| <b>Street Side</b> | Lumens    | 8234.2   | 0.0    | 8234.2  |
|                    | % Fixture | 68.3     | 0.0    | 68.3    |
| <b>Total</b>       | Lumens    | 12054.0  | 0.0    | 12054.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 235.9   | 2.0       |
| 10°-20°   | 744.2   | 6.2       |
| 20°-30°   | 1315.6  | 10.9      |
| 30°-40°   | 1976.0  | 16.4      |
| 40°-50°   | 2711.8  | 22.5      |
| 50°-60°   | 3230.8  | 26.8      |
| 60°-70°   | 1382.6  | 11.5      |
| 70°-80°   | 391.3   | 3.2       |
| 80°-90°   | 65.8    | 0.5       |
| 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°    | 12054.0 | 100.0     |
| 0°-180°   | 12054.0 | 100.0     |

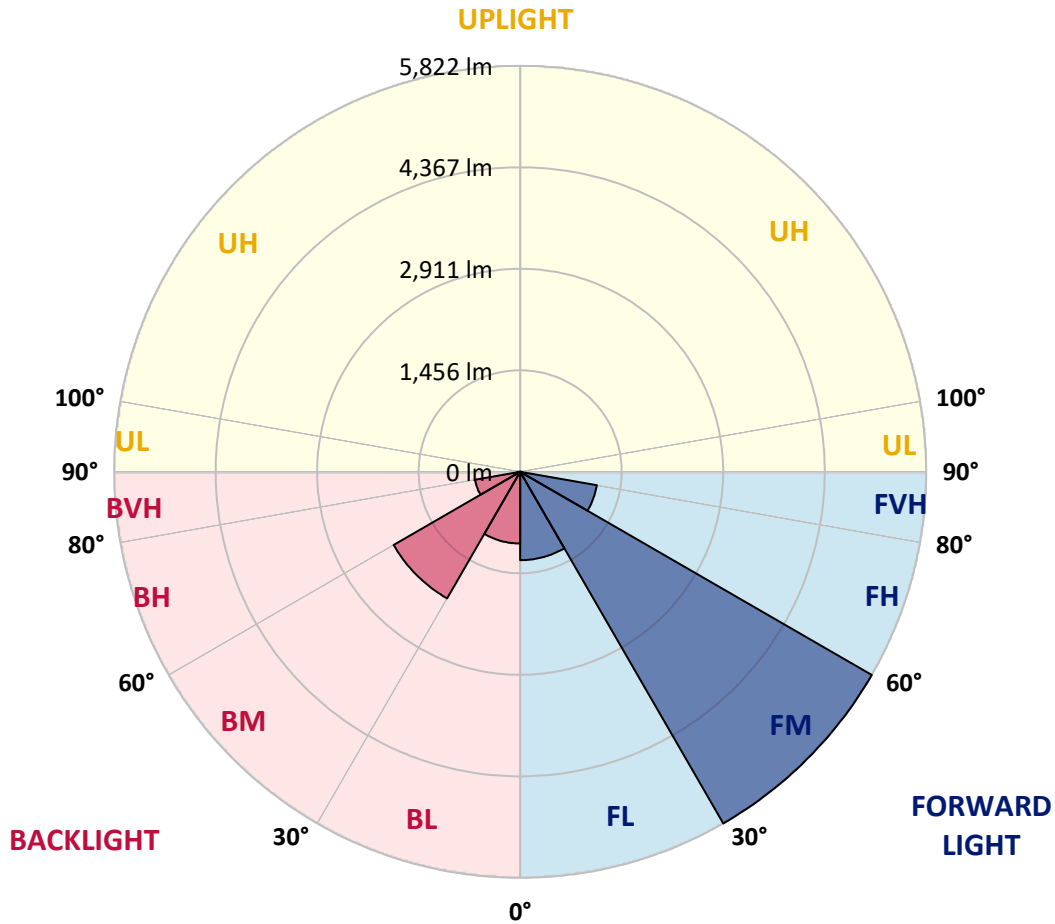


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1267.3 | 10.5      |                         |      |         |
| FM (30°-60°)   | 5822.4 | 48.3      |                         |      |         |
| FH (60°-80°)   | 1116.6 | 9.3       |                         |      | G1/1800 |
| FVH (80°-90°)  | 27.9   | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 1028.4 | 8.5       | B3/2500                 |      |         |
| BM (30°-60°)   | 2096.2 | 17.4      | B2/2500                 |      |         |
| BH (60°-80°)   | 657.2  | 5.5       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 37.9   | 0.3       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 47°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2421.3 | 2421.3 | 2421.3 | 2421.3 | 2421.3 | 2421.3 | 2421.3 | 2421.3 | 2421.3 | 2421.3 | 2421.3 |
| 2.5°  | 2412.1 | 2407.4 | 2404.4 | 2429.0 | 2419.7 | 2421.3 | 2412.1 | 2421.3 | 2427.4 | 2413.6 | 2433.6 |
| 5°    | 2407.4 | 2421.3 | 2409.0 | 2416.7 | 2436.7 | 2430.5 | 2436.7 | 2455.1 | 2450.5 | 2445.9 | 2439.7 |
| 7.5°  | 2450.5 | 2452.0 | 2461.3 | 2464.3 | 2470.5 | 2464.3 | 2473.6 | 2490.5 | 2485.8 | 2459.7 | 2462.8 |
| 10°   | 2512.0 | 2515.1 | 2516.6 | 2533.5 | 2544.3 | 2545.8 | 2535.0 | 2519.7 | 2518.1 | 2553.5 | 2528.9 |
| 12.5° | 2582.7 | 2575.0 | 2593.5 | 2599.6 | 2611.9 | 2625.7 | 2639.6 | 2607.3 | 2627.3 | 2628.8 | 2599.6 |
| 15°   | 2685.7 | 2693.4 | 2671.9 | 2671.9 | 2676.5 | 2678.0 | 2716.4 | 2701.1 | 2698.0 | 2681.1 | 2693.4 |
| 17.5° | 2839.4 | 2787.2 | 2785.6 | 2764.1 | 2761.0 | 2773.3 | 2787.2 | 2799.5 | 2841.0 | 2807.2 | 2741.0 |
| 20°   | 2951.7 | 2964.0 | 2919.4 | 2893.2 | 2897.9 | 2925.5 | 2911.7 | 2967.0 | 2996.2 | 2940.9 | 2876.3 |
| 22.5° | 3150.0 | 3108.5 | 3119.2 | 3060.8 | 3065.4 | 3094.6 | 3093.1 | 3150.0 | 3166.9 | 3079.3 | 2985.5 |
| 25°   | 3283.7 | 3273.0 | 3282.2 | 3236.1 | 3242.2 | 3265.3 | 3302.2 | 3395.9 | 3368.3 | 3271.4 | 3054.7 |
| 27.5° | 3479.0 | 3457.4 | 3449.8 | 3432.8 | 3426.7 | 3488.2 | 3531.2 | 3631.2 | 3611.2 | 3469.7 | 3177.6 |
| 30°   | 3678.8 | 3665.0 | 3672.7 | 3603.5 | 3628.1 | 3758.8 | 3771.1 | 3907.9 | 3898.6 | 3649.6 | 3314.5 |
| 32.5° | 3817.2 | 3824.9 | 3838.7 | 3800.3 | 3909.4 | 4013.9 | 4055.5 | 4210.7 | 4218.4 | 3958.6 | 3578.9 |
| 35°   | 4040.1 | 4013.9 | 4021.6 | 4066.2 | 4116.9 | 4307.6 | 4375.2 | 4478.2 | 4542.8 | 4283.0 | 3832.5 |
| 37.5° | 4180.0 | 4207.7 | 4175.4 | 4246.1 | 4378.3 | 4607.4 | 4668.8 | 4774.9 | 4842.6 | 4602.7 | 4178.4 |
| 40°   | 4398.3 | 4353.7 | 4376.8 | 4427.5 | 4562.8 | 4861.0 | 4844.1 | 4953.3 | 4974.8 | 4874.8 | 4501.3 |
| 42.5° | 4633.5 | 4612.0 | 4579.7 | 4695.0 | 4808.7 | 5025.5 | 5059.3 | 5008.6 | 5117.7 | 5140.8 | 4962.5 |
| 45°   | 4914.8 | 4941.0 | 4945.6 | 4948.6 | 5048.6 | 5237.7 | 5191.5 | 5147.0 | 5273.0 | 5440.6 | 5248.4 |
| 47.5° | 5176.2 | 5093.1 | 5153.1 | 5236.1 | 5377.6 | 5379.1 | 5432.9 | 5326.8 | 5460.6 | 5609.7 | 5506.7 |
| 50°   | 5263.8 | 5223.8 | 5303.8 | 5460.6 | 5678.9 | 5701.9 | 5708.1 | 5557.4 | 5626.6 | 5745.0 | 5595.9 |
| 52.5° | 5230.0 | 5216.1 | 5420.6 | 5663.5 | 5983.3 | 6100.1 | 6130.8 | 5944.8 | 5983.3 | 5929.5 | 5792.6 |
| 55°   | 5068.6 | 5110.1 | 5316.1 | 5811.1 | 6301.5 | 6662.8 | 6721.2 | 6486.0 | 6241.5 | 6283.0 | 6132.4 |
| 56°   | 4847.2 | 4774.9 | 5005.5 | 5643.5 | 6287.6 | 6845.7 | 6893.4 | 6599.7 | 6433.7 | 6379.9 | 6129.3 |
| 57.5° | 4112.3 | 4018.6 | 4321.4 | 5077.8 | 5938.7 | 6776.5 | 6811.9 | 6647.4 | 6401.4 | 6292.3 | 5681.9 |
| 60°   | 2407.4 | 2453.6 | 2837.9 | 3502.0 | 4581.2 | 5555.9 | 5674.3 | 5794.2 | 5629.7 | 5140.8 | 4229.2 |
| 62.5° | 1162.2 | 1133.0 | 1408.2 | 2007.7 | 2791.8 | 3546.6 | 3511.2 | 3847.9 | 4032.4 | 3652.7 | 2670.3 |
| 65°   | 608.8  | 605.7  | 768.7  | 1096.1 | 1534.2 | 1863.2 | 1895.5 | 2076.9 | 2330.6 | 1881.7 | 1355.9 |
| 67.5° | 447.4  | 459.7  | 541.1  | 770.2  | 987.0  | 1006.9 | 1002.3 | 1093.0 | 1117.6 | 945.5  | 833.2  |
| 70°   | 350.5  | 356.7  | 416.6  | 585.7  | 734.8  | 658.0  | 644.1  | 654.9  | 727.2  | 757.9  | 721.0  |
| 72.5° | 253.7  | 259.8  | 310.5  | 395.1  | 459.7  | 448.9  | 458.1  | 518.1  | 607.2  | 639.5  | 601.1  |
| 75°   | 169.1  | 173.7  | 201.4  | 241.4  | 272.1  | 293.6  | 310.5  | 379.7  | 462.7  | 481.2  | 462.7  |
| 77.5° | 116.8  | 121.4  | 139.9  | 170.6  | 173.7  | 187.6  | 193.7  | 226.0  | 276.7  | 299.8  | 287.5  |
| 80°   | 66.1   | 66.1   | 75.3   | 87.6   | 107.6  | 126.1  | 129.1  | 155.3  | 178.3  | 193.7  | 196.8  |
| 82.5° | 30.7   | 32.3   | 40.0   | 53.8   | 70.7   | 87.6   | 90.7   | 107.6  | 124.5  | 139.9  | 144.5  |
| 85°   | 15.4   | 16.9   | 23.1   | 32.3   | 43.0   | 52.3   | 50.7   | 52.3   | 55.3   | 52.3   | 53.8   |
| 87.5° | 4.6    | 4.6    | 6.1    | 7.7    | 6.1    | 7.7    | 7.7    | 9.2    | 10.8   | 12.3   | 13.8   |
| 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°    | 2421.3 | 2421.3 | 2421.3 | 2421.3 | 2421.3 | 2421.3 | 2421.3 | 2421.3 | 2421.3 | 2421.3 | 2421.3 |
| 2.5°  | 2435.1 | 2439.7 | 2409.0 | 2438.2 | 2427.4 | 2425.9 | 2447.4 | 2444.3 | 2452.0 | 2449.0 | 2430.5 |
| 5°    | 2436.7 | 2425.9 | 2458.2 | 2429.0 | 2442.8 | 2472.0 | 2452.0 | 2498.1 | 2475.1 | 2490.5 | 2456.6 |
| 7.5°  | 2484.3 | 2487.4 | 2481.2 | 2493.5 | 2487.4 | 2501.2 | 2490.5 | 2501.2 | 2482.8 | 2484.3 | 2515.1 |
| 10°   | 2525.8 | 2516.6 | 2527.4 | 2512.0 | 2522.7 | 2518.1 | 2493.5 | 2485.8 | 2492.0 | 2484.3 | 2504.3 |
| 12.5° | 2602.7 | 2585.8 | 2578.1 | 2559.6 | 2547.3 | 2501.2 | 2462.8 | 2441.3 | 2470.5 | 2475.1 | 2465.9 |
| 15°   | 2681.1 | 2682.6 | 2647.3 | 2605.8 | 2528.9 | 2459.7 | 2468.9 | 2476.6 | 2476.6 | 2488.9 | 2465.9 |
| 17.5° | 2730.3 | 2730.3 | 2698.0 | 2615.0 | 2536.6 | 2496.6 | 2487.4 | 2462.8 | 2441.3 | 2438.2 | 2436.7 |
| 20°   | 2816.4 | 2790.2 | 2716.4 | 2613.4 | 2533.5 | 2515.1 | 2445.9 | 2387.5 | 2342.9 | 2327.5 | 2326.0 |
| 22.5° | 2914.8 | 2848.7 | 2745.7 | 2616.5 | 2528.9 | 2502.8 | 2373.6 | 2286.0 | 2206.1 | 2172.2 | 2176.8 |
| 25°   | 3005.5 | 2899.4 | 2762.6 | 2602.7 | 2512.0 | 2385.9 | 2241.4 | 2120.0 | 2037.0 | 2009.3 | 1995.4 |
| 27.5° | 3068.5 | 2953.2 | 2762.6 | 2615.0 | 2449.0 | 2255.3 | 2107.7 | 1952.4 | 1880.1 | 1861.7 | 1864.8 |
| 30°   | 3153.0 | 3020.8 | 2810.2 | 2588.9 | 2322.9 | 2086.1 | 1909.4 | 1807.9 | 1764.8 | 1749.5 | 1760.2 |
| 32.5° | 3351.4 | 3197.6 | 2876.3 | 2525.8 | 2173.8 | 1917.0 | 1774.1 | 1717.2 | 1654.2 | 1623.4 | 1612.7 |
| 35°   | 3566.6 | 3365.2 | 2940.9 | 2419.7 | 2006.2 | 1763.3 | 1674.1 | 1621.9 | 1546.5 | 1512.7 | 1518.9 |
| 37.5° | 3871.0 | 3580.4 | 2945.5 | 2244.5 | 1824.8 | 1677.2 | 1595.7 | 1514.3 | 1452.8 | 1400.5 | 1385.1 |
| 40°   | 4281.4 | 3874.1 | 2934.7 | 2060.0 | 1678.8 | 1575.8 | 1515.8 | 1414.3 | 1345.2 | 1308.3 | 1315.9 |
| 42.5° | 4642.7 | 4218.4 | 2890.2 | 1850.9 | 1546.5 | 1506.6 | 1438.9 | 1339.0 | 1271.4 | 1232.9 | 1229.9 |
| 45°   | 4947.1 | 4472.1 | 2805.6 | 1672.6 | 1435.9 | 1429.7 | 1351.3 | 1274.4 | 1220.6 | 1185.3 | 1200.6 |
| 47.5° | 5228.4 | 4676.5 | 2678.0 | 1494.3 | 1334.4 | 1346.7 | 1271.4 | 1223.7 | 1189.9 | 1157.6 | 1156.1 |
| 50°   | 5329.9 | 4673.5 | 2565.8 | 1346.7 | 1252.9 | 1246.8 | 1243.7 | 1193.0 | 1157.6 | 1129.9 | 1142.2 |
| 52.5° | 5499.0 | 4725.7 | 2444.3 | 1245.2 | 1179.1 | 1180.7 | 1191.4 | 1154.5 | 1114.6 | 1097.6 | 1113.0 |
| 55°   | 5741.9 | 4733.4 | 2176.8 | 1126.9 | 1117.6 | 1128.4 | 1128.4 | 1103.8 | 1070.0 | 1056.1 | 1048.5 |
| 56°   | 5543.6 | 4504.4 | 1952.4 | 1096.1 | 1086.9 | 1086.9 | 1116.1 | 1088.4 | 1046.9 | 1036.2 | 1026.9 |
| 57.5° | 5113.1 | 3946.3 | 1634.2 | 1059.2 | 1045.4 | 1066.9 | 1082.3 | 1053.1 | 1014.6 | 999.3  | 1008.5 |
| 60°   | 3526.6 | 2670.3 | 1228.3 | 979.3  | 979.3  | 1014.6 | 1026.9 | 983.9  | 967.0  | 965.4  | 953.1  |
| 62.5° | 2058.5 | 1555.8 | 960.8  | 907.0  | 910.1  | 939.3  | 948.5  | 923.9  | 902.4  | 928.5  | 940.8  |
| 65°   | 1091.5 | 928.5  | 824.0  | 830.2  | 831.7  | 854.8  | 894.7  | 893.2  | 891.6  | 899.3  | 900.9  |
| 67.5° | 790.2  | 771.7  | 748.7  | 742.5  | 745.6  | 762.5  | 802.5  | 833.2  | 831.7  | 813.2  | 799.4  |
| 70°   | 704.1  | 678.0  | 664.1  | 665.7  | 653.4  | 673.3  | 705.6  | 725.6  | 690.3  | 668.7  | 659.5  |
| 72.5° | 585.7  | 578.0  | 568.8  | 570.3  | 545.7  | 541.1  | 504.2  | 504.2  | 495.0  | 488.9  | 499.6  |
| 75°   | 447.4  | 444.3  | 448.9  | 441.2  | 415.1  | 387.4  | 365.9  | 345.9  | 315.2  | 302.9  | 296.7  |
| 77.5° | 282.9  | 292.1  | 302.9  | 285.9  | 275.2  | 255.2  | 233.7  | 213.7  | 189.1  | 175.3  | 175.3  |
| 80°   | 192.2  | 199.9  | 207.5  | 204.5  | 192.2  | 173.7  | 156.8  | 135.3  | 118.4  | 107.6  | 106.1  |
| 82.5° | 146.0  | 152.2  | 163.0  | 150.7  | 138.4  | 123.0  | 109.1  | 93.8   | 78.4   | 66.1   | 66.1   |
| 85°   | 52.3   | 60.0   | 66.1   | 72.3   | 76.9   | 78.4   | 67.6   | 55.3   | 44.6   | 35.4   | 33.8   |
| 87.5° | 13.8   | 15.4   | 16.9   | 15.4   | 15.4   | 15.4   | 16.9   | 15.4   | 13.8   | 10.8   | 10.8   |
| 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)