

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: P530007

Luminaire Tested: **GALN-SA5B-722-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530007  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5B-722-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12357 lumens  
Efficiency: N/A  
Efficacy: 60.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

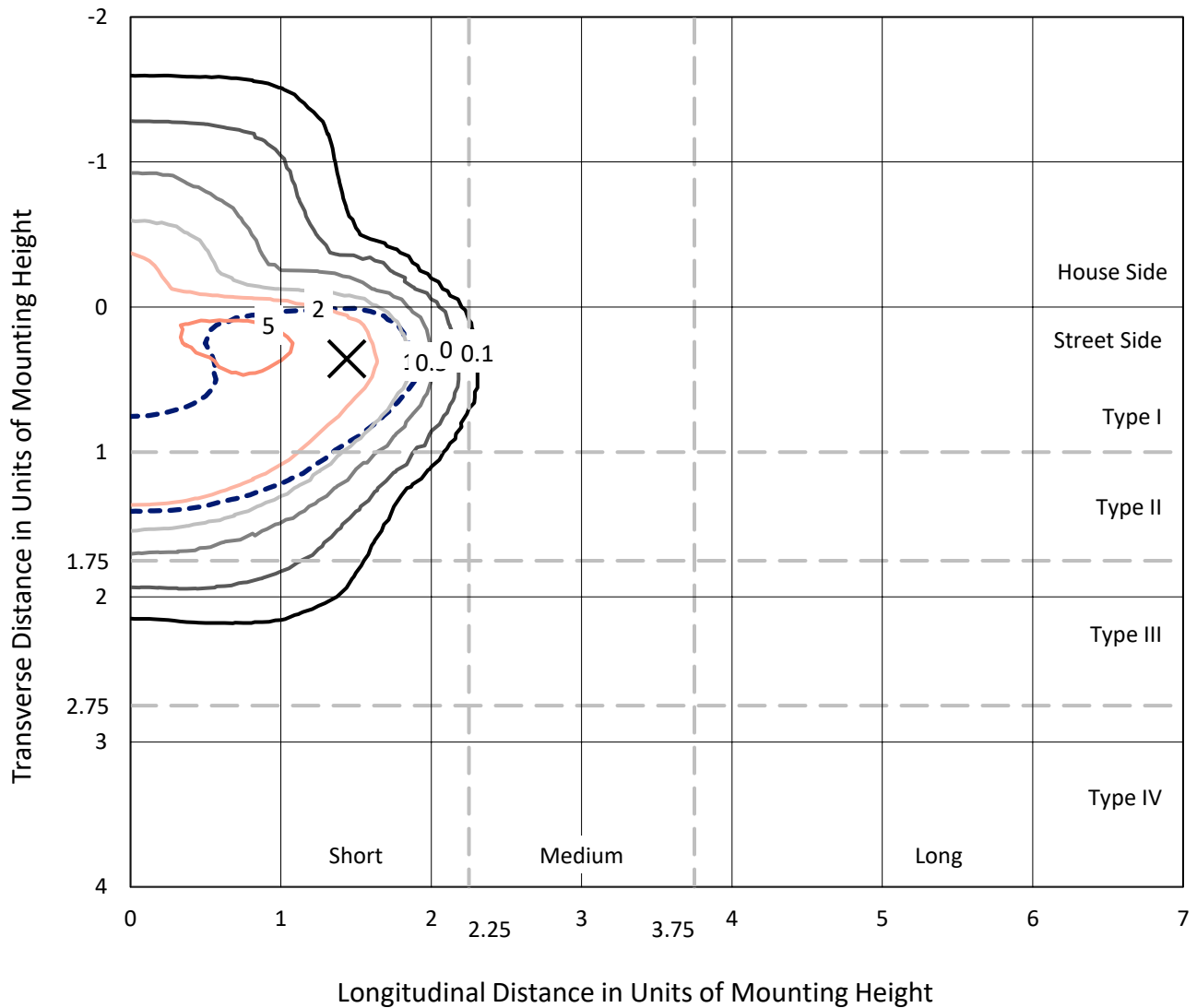
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

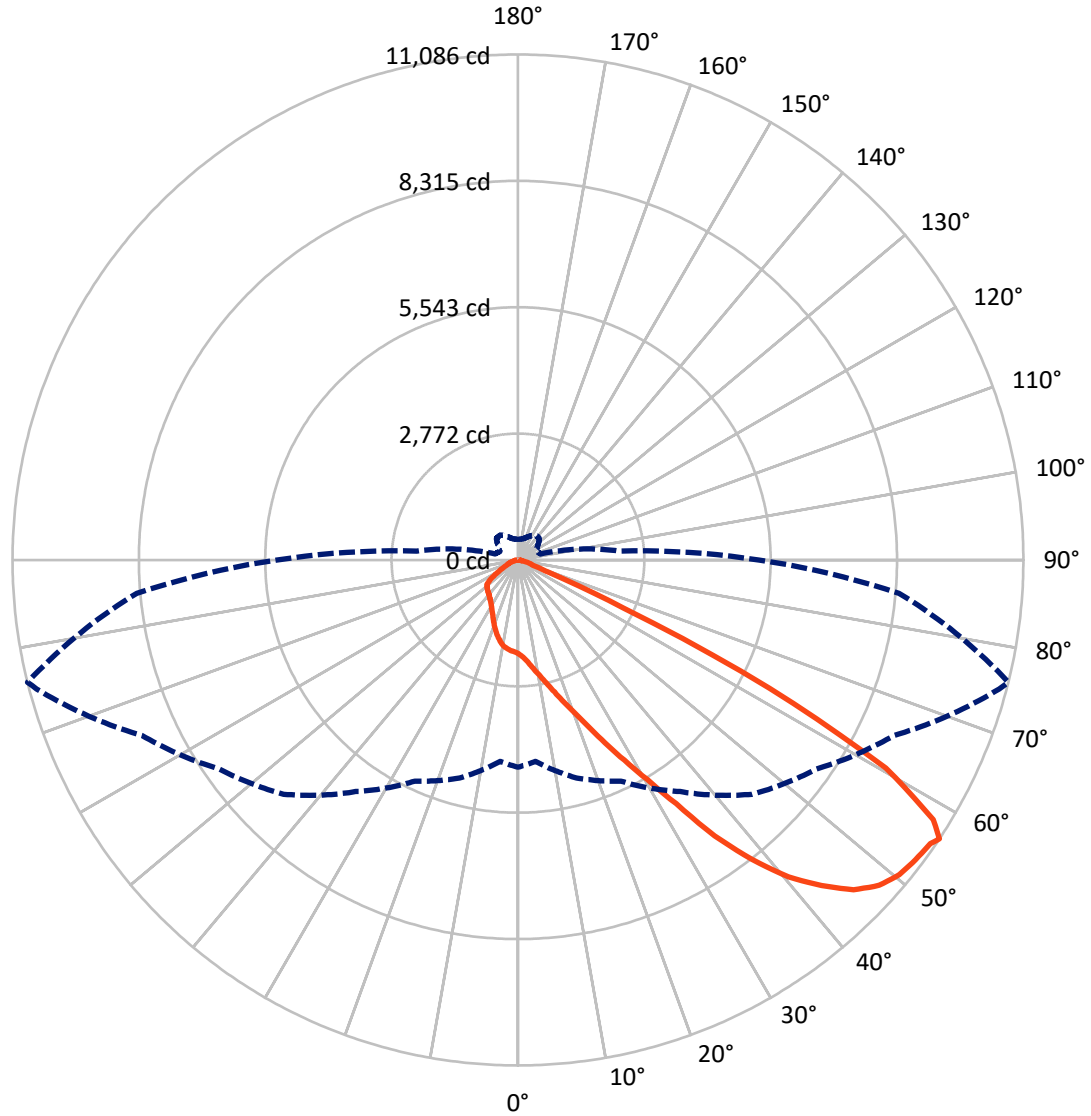
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1941.2   | 0.0    | 1941.2  |
|                    | % Fixture | 15.7     | 0.0    | 15.7    |
| <b>Street Side</b> | Lumens    | 10415.8  | 0.0    | 10415.8 |
|                    | % Fixture | 84.3     | 0.0    | 84.3    |
| <b>Total</b>       | Lumens    | 12357.0  | 0.0    | 12357.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 207.2   | 1.7       |
| 10°-20°   | 665.7   | 5.4       |
| 20°-30°   | 1207.0  | 9.8       |
| 30°-40°   | 2081.5  | 16.8      |
| 40°-50°   | 3381.5  | 27.4      |
| 50°-60°   | 3564.2  | 28.8      |
| 60°-70°   | 1089.0  | 8.8       |
| 70°-80°   | 139.6   | 1.1       |
| 80°-90°   | 21.2    | 0.2       |
| 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°    | 12357.0 | 100.0     |
| 0°-180°   | 12357.0 | 100.0     |

**Coefficient of Utilization**



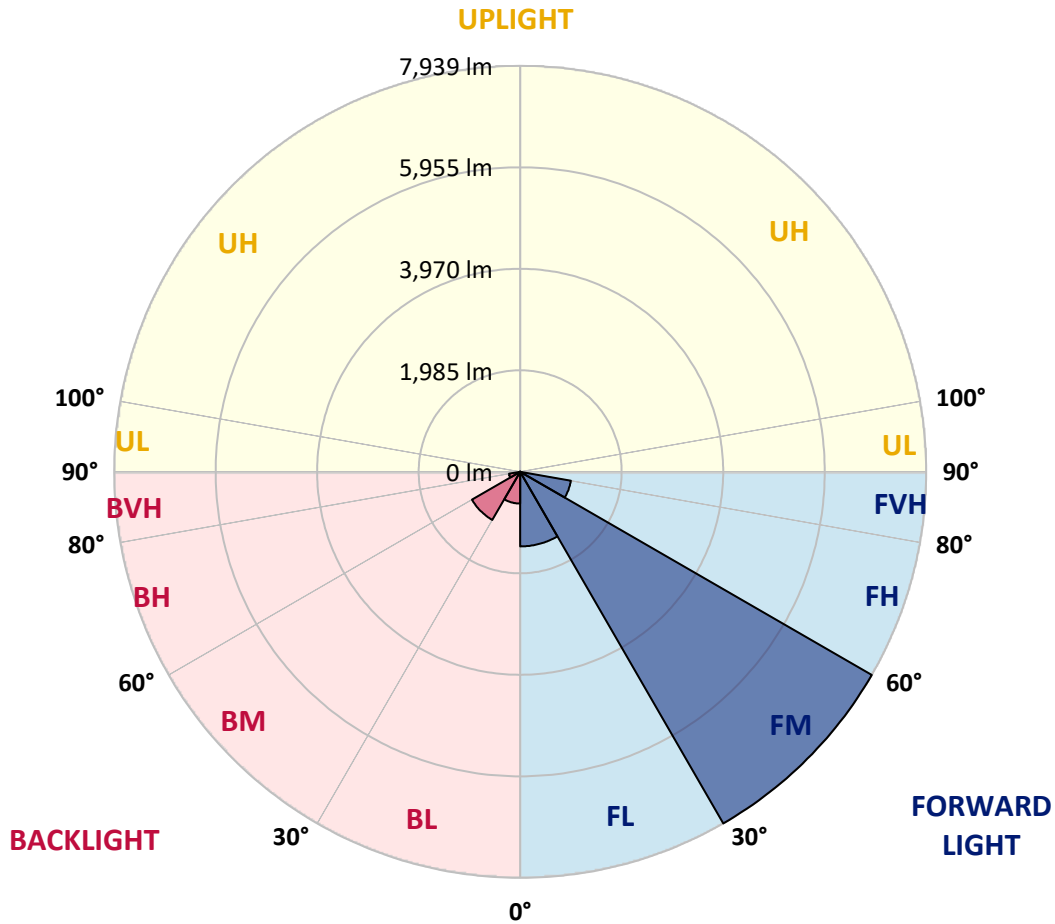
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1458.9 | 11.8      |                         |      |         |
| FM (30°-60°)   | 7939.4 | 64.2      |                         |      |         |
| FH (60°-80°)   | 1007.2 | 8.2       |                         |      | G1/1800 |
| FVH (80°-90°)  | 10.4   | 0.1       |                         |      | G1/100  |
| BL (0°-30°)    | 621.0  | 5.0       | B2/1000                 |      |         |
| BM (30°-60°)   | 1087.9 | 8.8       | B2/2500                 |      |         |
| BH (60°-80°)   | 221.5  | 1.8       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 10.8   | 0.1       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°     | 76°     | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|
| 0°    | 2056.8 | 2056.8 | 2056.8 | 2056.8 | 2056.8 | 2056.8 | 2056.8 | 2056.8 | 2056.8  | 2056.8  | 2056.8 |
| 2.5°  | 2368.9 | 2314.2 | 2316.5 | 2312.0 | 2305.1 | 2280.1 | 2204.9 | 2193.5 | 2143.4  | 2129.7  | 2084.2 |
| 5°    | 2653.6 | 2605.8 | 2633.1 | 2592.1 | 2553.4 | 2530.6 | 2407.6 | 2350.7 | 2271.0  | 2241.3  | 2177.6 |
| 7.5°  | 2831.3 | 2808.5 | 2799.4 | 2801.7 | 2765.2 | 2708.3 | 2653.6 | 2528.3 | 2421.3  | 2398.5  | 2264.1 |
| 10°   | 2917.8 | 2904.2 | 2917.8 | 2911.0 | 2927.0 | 2933.8 | 2838.1 | 2763.0 | 2605.8  | 2567.1  | 2357.5 |
| 12.5° | 2938.3 | 2965.7 | 2977.1 | 3006.7 | 3045.4 | 3111.5 | 3104.6 | 3002.1 | 2792.6  | 2767.5  | 2501.0 |
| 15°   | 2988.5 | 3011.2 | 2999.8 | 3047.7 | 3120.6 | 3232.2 | 3291.4 | 3275.5 | 3050.0  | 3004.4  | 2667.3 |
| 17.5° | 3034.0 | 2993.0 | 3031.7 | 3127.4 | 3200.3 | 3371.1 | 3514.6 | 3580.7 | 3330.1  | 3277.7  | 2819.9 |
| 20°   | 3095.5 | 3084.1 | 3077.3 | 3125.1 | 3255.0 | 3482.7 | 3767.5 | 3888.2 | 3644.5  | 3589.8  | 3038.6 |
| 22.5° | 3282.3 | 3284.6 | 3280.0 | 3209.4 | 3302.8 | 3560.2 | 3988.4 | 4286.8 | 4020.3  | 3974.7  | 3286.8 |
| 25°   | 3528.3 | 3498.7 | 3475.9 | 3419.0 | 3407.6 | 3630.8 | 4211.6 | 4774.2 | 4471.3  | 4439.4  | 3555.6 |
| 27.5° | 3788.0 | 3788.0 | 3719.6 | 3667.2 | 3594.3 | 3806.2 | 4416.6 | 5248.0 | 5015.7  | 4972.4  | 3790.2 |
| 30°   | 4070.4 | 4086.3 | 4077.2 | 3965.6 | 3920.1 | 3997.5 | 4626.2 | 5853.9 | 5639.8  | 5585.1  | 4177.5 |
| 32.5° | 4487.2 | 4453.1 | 4491.8 | 4398.4 | 4264.0 | 4332.3 | 4956.5 | 6396.0 | 6450.7  | 6373.2  | 4685.4 |
| 35°   | 5038.5 | 5018.0 | 4992.9 | 4840.3 | 4680.9 | 4735.5 | 5423.4 | 7063.4 | 7468.9  | 7430.1  | 5197.9 |
| 37.5° | 5532.7 | 5521.4 | 5500.9 | 5396.1 | 5211.6 | 5277.6 | 5954.1 | 7758.1 | 8462.0  | 8334.4  | 5922.2 |
| 40°   | 6052.1 | 6113.6 | 6047.5 | 5954.1 | 5785.6 | 5931.4 | 6578.2 | 8170.4 | 9297.9  | 9143.0  | 6475.7 |
| 42.5° | 6755.9 | 6708.1 | 6737.7 | 6566.9 | 6475.7 | 6635.2 | 7204.6 | 8582.7 | 9947.1  | 9762.6  | 7063.4 |
| 45°   | 7505.3 | 7507.6 | 7427.9 | 7373.2 | 7136.3 | 7309.4 | 7589.6 | 8810.5 | 10464.2 | 10320.7 | 7507.6 |
| 47.5° | 7985.9 | 7983.6 | 8070.2 | 8156.8 | 7913.0 | 7742.2 | 7851.5 | 9026.9 | 10730.7 | 10664.6 | 7669.3 |
| 50°   | 7910.8 | 7933.5 | 8045.1 | 8368.6 | 8496.1 | 8266.1 | 8097.5 | 8963.1 | 10851.4 | 10844.5 | 7808.3 |
| 52.5° | 6881.2 | 6956.4 | 7143.1 | 7610.1 | 8252.4 | 8537.1 | 8354.9 | 9081.5 | 10910.6 | 10922.0 | 8015.5 |
| 55°   | 5238.9 | 5279.9 | 5635.2 | 6202.4 | 6913.1 | 7888.0 | 8252.4 | 9174.9 | 10956.2 | 10976.7 | 8266.1 |
| 56°   | 4544.2 | 4434.9 | 4947.4 | 5350.5 | 6200.1 | 7266.1 | 7992.8 | 9102.0 | 10928.8 | 11086.0 | 8391.4 |
| 57.5° | 3430.3 | 3357.5 | 3772.0 | 4275.4 | 5093.1 | 6218.4 | 7186.4 | 8758.1 | 10744.3 | 10742.0 | 8211.4 |
| 60°   | 2086.5 | 2013.6 | 2332.5 | 2628.6 | 3086.4 | 3829.0 | 4856.2 | 6974.6 | 9083.8  | 9275.1  | 6648.9 |
| 62.5° | 1241.4 | 1286.9 | 1601.3 | 1781.2 | 1929.3 | 2006.7 | 2512.4 | 4145.6 | 6061.2  | 6197.9  | 4125.1 |
| 65°   | 826.8  | 842.8  | 1079.7 | 1375.8 | 1441.8 | 1148.0 | 1022.7 | 1678.7 | 2628.6  | 2544.3  | 1701.5 |
| 67.5° | 510.2  | 546.7  | 724.3  | 1034.1 | 1145.7 | 838.2  | 485.2  | 626.4  | 724.3   | 724.3   | 492.0  |
| 70°   | 309.8  | 328.0  | 482.9  | 703.8  | 785.8  | 539.8  | 353.1  | 353.1  | 348.5   | 341.7   | 293.8  |
| 72.5° | 148.1  | 159.4  | 246.0  | 362.2  | 369.0  | 284.7  | 273.3  | 298.4  | 291.6   | 289.3   | 243.7  |
| 75°   | 63.8   | 68.3   | 86.6   | 113.9  | 129.8  | 120.7  | 166.3  | 214.1  | 220.9   | 214.1   | 175.4  |
| 77.5° | 20.5   | 22.8   | 31.9   | 41.0   | 43.3   | 52.4   | 70.6   | 88.8   | 102.5   | 95.7    | 86.6   |
| 80°   | 2.3    | 4.6    | 9.1    | 20.5   | 31.9   | 41.0   | 52.4   | 59.2   | 66.1    | 66.1    | 61.5   |
| 82.5° | 2.3    | 2.3    | 9.1    | 18.2   | 29.6   | 38.7   | 50.1   | 56.9   | 66.1    | 68.3    | 63.8   |
| 85°   | 0.0    | 2.3    | 6.8    | 15.9   | 25.1   | 25.1   | 22.8   | 22.8   | 15.9    | 15.9    | 15.9   |
| 87.5° | 0.0    | 0.0    | 2.3    | 2.3    | 2.3    | 4.6    | 4.6    | 4.6    | 4.6     | 4.6     | 4.6    |
| 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°    | 2056.8 | 2056.8 | 2056.8 | 2056.8 | 2056.8 | 2056.8 | 2056.8 | 2056.8 | 2056.8 | 2056.8 | 2056.8 |
| 2.5°  | 2075.1 | 2070.5 | 2009.0 | 1970.3 | 1949.8 | 1908.8 | 1883.7 | 1865.5 | 1851.8 | 1835.9 | 1838.2 |
| 5°    | 2102.4 | 2086.5 | 1984.0 | 1913.3 | 1829.1 | 1783.5 | 1744.8 | 1712.9 | 1692.4 | 1687.8 | 1678.7 |
| 7.5°  | 2179.8 | 2095.6 | 1940.7 | 1813.1 | 1706.1 | 1660.5 | 1626.3 | 1605.8 | 1615.0 | 1594.5 | 1610.4 |
| 10°   | 2239.1 | 2113.8 | 1888.3 | 1703.8 | 1596.7 | 1562.6 | 1544.3 | 1560.3 | 1583.1 | 1574.0 | 1562.6 |
| 12.5° | 2312.0 | 2132.0 | 1804.0 | 1599.0 | 1498.8 | 1473.7 | 1505.6 | 1535.2 | 1580.8 | 1599.0 | 1576.2 |
| 15°   | 2394.0 | 2152.5 | 1697.0 | 1478.3 | 1414.5 | 1435.0 | 1489.7 | 1542.1 | 1587.6 | 1610.4 | 1624.1 |
| 17.5° | 2494.2 | 2145.7 | 1592.2 | 1382.6 | 1334.8 | 1394.0 | 1460.1 | 1507.9 | 1576.2 | 1610.4 | 1601.3 |
| 20°   | 2587.6 | 2122.9 | 1476.0 | 1286.9 | 1289.2 | 1343.9 | 1398.6 | 1476.0 | 1512.5 | 1558.0 | 1542.1 |
| 22.5° | 2676.4 | 2081.9 | 1355.3 | 1220.9 | 1220.9 | 1305.2 | 1332.5 | 1382.6 | 1414.5 | 1437.3 | 1435.0 |
| 25°   | 2801.7 | 2004.5 | 1255.1 | 1157.1 | 1184.4 | 1239.1 | 1261.9 | 1277.8 | 1264.2 | 1282.4 | 1284.7 |
| 27.5° | 2890.5 | 1924.7 | 1173.1 | 1100.2 | 1150.3 | 1191.3 | 1184.4 | 1175.3 | 1143.4 | 1118.4 | 1134.3 |
| 30°   | 2986.2 | 1831.3 | 1102.4 | 1061.4 | 1088.8 | 1125.2 | 1097.9 | 1070.6 | 1020.4 | 979.4  | 981.7  |
| 32.5° | 3122.8 | 1788.1 | 1040.9 | 1015.9 | 1052.3 | 1056.9 | 1027.3 | 986.3  | 936.2  | 897.4  | 895.2  |
| 35°   | 3378.0 | 1760.7 | 988.6  | 986.3  | 993.1  | 995.4  | 965.8  | 915.7  | 895.2  | 863.3  | 874.7  |
| 37.5° | 3633.1 | 1747.1 | 952.1  | 943.0  | 940.7  | 943.0  | 908.8  | 861.0  | 899.7  | 897.4  | 902.0  |
| 40°   | 3958.8 | 1808.6 | 899.7  | 888.3  | 890.6  | 890.6  | 847.3  | 833.7  | 902.0  | 908.8  | 911.1  |
| 42.5° | 4289.1 | 1886.0 | 865.6  | 829.1  | 838.2  | 838.2  | 815.4  | 799.5  | 847.3  | 801.8  | 794.9  |
| 45°   | 4576.1 | 1999.9 | 829.1  | 769.9  | 792.7  | 804.1  | 797.2  | 769.9  | 740.3  | 662.8  | 662.8  |
| 47.5° | 4669.5 | 2100.1 | 785.8  | 712.9  | 731.2  | 781.3  | 760.8  | 703.8  | 651.4  | 587.7  | 583.1  |
| 50°   | 4833.5 | 2209.5 | 751.7  | 646.9  | 685.6  | 747.1  | 726.6  | 669.7  | 610.4  | 564.9  | 567.2  |
| 52.5° | 5002.0 | 2334.7 | 687.9  | 569.4  | 617.3  | 719.8  | 719.8  | 656.0  | 564.9  | 533.0  | 528.4  |
| 55°   | 5254.9 | 2330.2 | 574.0  | 466.9  | 551.2  | 678.8  | 690.2  | 587.7  | 505.7  | 480.6  | 480.6  |
| 56°   | 5291.3 | 2225.4 | 517.1  | 437.3  | 521.6  | 667.4  | 669.7  | 569.4  | 482.9  | 455.6  | 455.6  |
| 57.5° | 5018.0 | 2009.0 | 453.3  | 400.9  | 485.2  | 646.9  | 649.2  | 553.5  | 464.7  | 425.9  | 421.4  |
| 60°   | 3860.8 | 1359.8 | 378.1  | 357.6  | 439.6  | 583.1  | 594.5  | 503.4  | 407.7  | 378.1  | 375.8  |
| 62.5° | 2179.8 | 753.9  | 332.6  | 323.4  | 378.1  | 496.6  | 530.7  | 439.6  | 346.2  | 330.3  | 334.8  |
| 65°   | 995.4  | 414.6  | 280.2  | 261.9  | 305.2  | 382.7  | 428.2  | 362.2  | 284.7  | 266.5  | 266.5  |
| 67.5° | 364.4  | 282.4  | 239.2  | 207.3  | 214.1  | 248.3  | 277.9  | 234.6  | 189.1  | 161.7  | 168.6  |
| 70°   | 259.7  | 236.9  | 209.6  | 179.9  | 166.3  | 161.7  | 159.4  | 132.1  | 93.4   | 72.9   | 77.4   |
| 72.5° | 209.6  | 195.9  | 175.4  | 152.6  | 129.8  | 109.3  | 93.4   | 68.3   | 43.3   | 29.6   | 27.3   |
| 75°   | 150.3  | 143.5  | 127.6  | 109.3  | 91.1   | 77.4   | 63.8   | 43.3   | 22.8   | 11.4   | 11.4   |
| 77.5° | 77.4   | 77.4   | 75.2   | 68.3   | 56.9   | 45.6   | 36.4   | 25.1   | 13.7   | 4.6    | 4.6    |
| 80°   | 59.2   | 63.8   | 66.1   | 59.2   | 52.4   | 41.0   | 29.6   | 18.2   | 9.1    | 2.3    | 2.3    |
| 82.5° | 56.9   | 66.1   | 70.6   | 61.5   | 52.4   | 38.7   | 29.6   | 18.2   | 9.1    | 2.3    | 2.3    |
| 85°   | 13.7   | 13.7   | 20.5   | 22.8   | 29.6   | 31.9   | 25.1   | 15.9   | 6.8    | 2.3    | 2.3    |
| 87.5° | 4.6    | 4.6    | 4.6    | 4.6    | 4.6    | 4.6    | 2.3    | 2.3    | 2.3    | 2.3    | 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)