

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: P652433

Luminaire Tested: **GALN-SA6B-840-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652433  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6B-840-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25606.8 lumens  
Efficiency: N/A  
Efficacy: 105.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

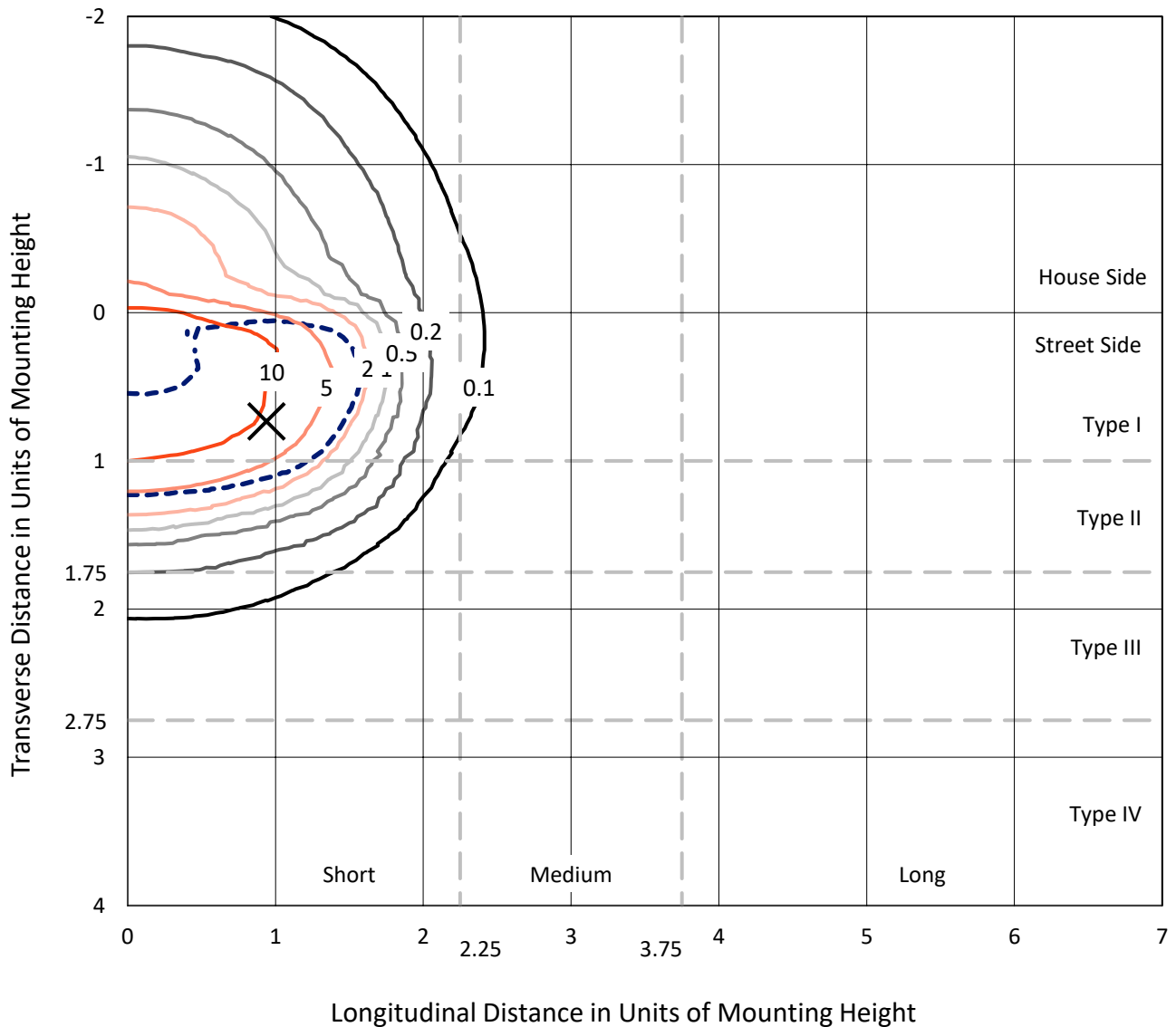
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

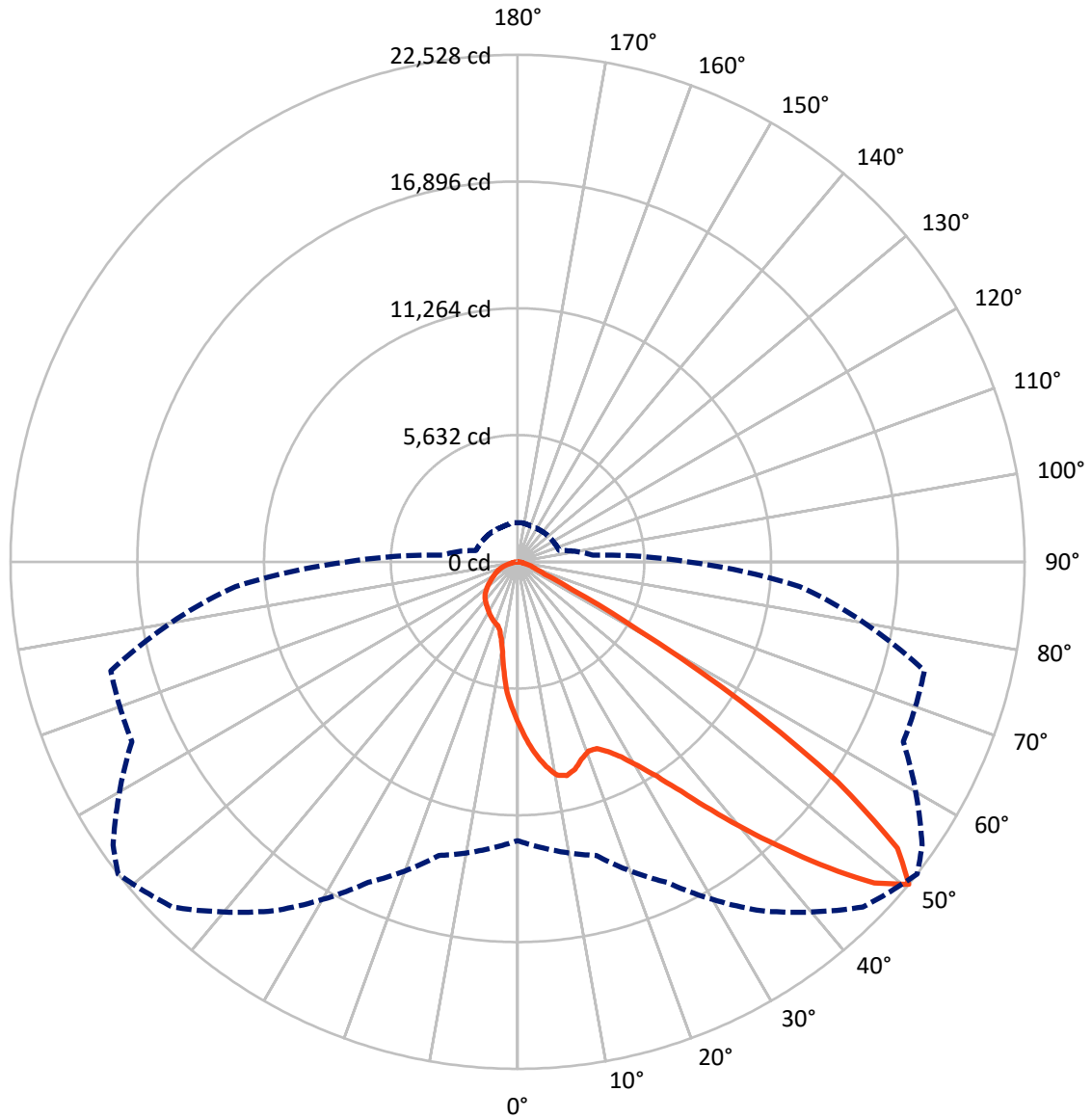
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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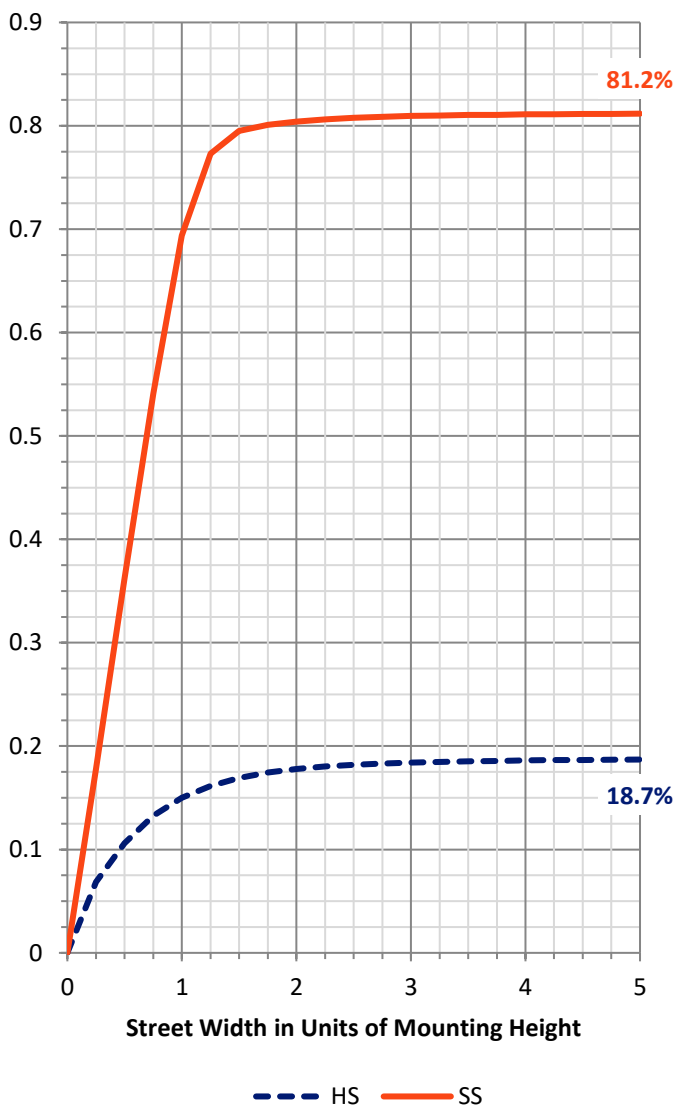
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4813.5   | 0.0    | 4813.5  |
|                    | % Fixture | 18.8     | 0.0    | 18.8    |
| <b>Street Side</b> | Lumens    | 20793.3  | 0.0    | 20793.3 |
|                    | % Fixture | 81.2     | 0.0    | 81.2    |
| <b>Total</b>       | Lumens    | 25606.8  | 0.0    | 25606.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 665.3   | 2.6       |
| 10°-20°   | 1783.1  | 7.0       |
| 20°-30°   | 3003.6  | 11.7      |
| 30°-40°   | 5040.4  | 19.7      |
| 40°-50°   | 7710.5  | 30.1      |
| 50°-60°   | 5621.6  | 22.0      |
| 60°-70°   | 1251.1  | 4.9       |
| 70°-80°   | 451.3   | 1.8       |
| 80°-90°   | 79.9    | 0.3       |
| 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°    | 25606.8 | 100.0     |
| 0°-180°   | 25606.8 | 100.0     |

**Coefficient of Utilization**



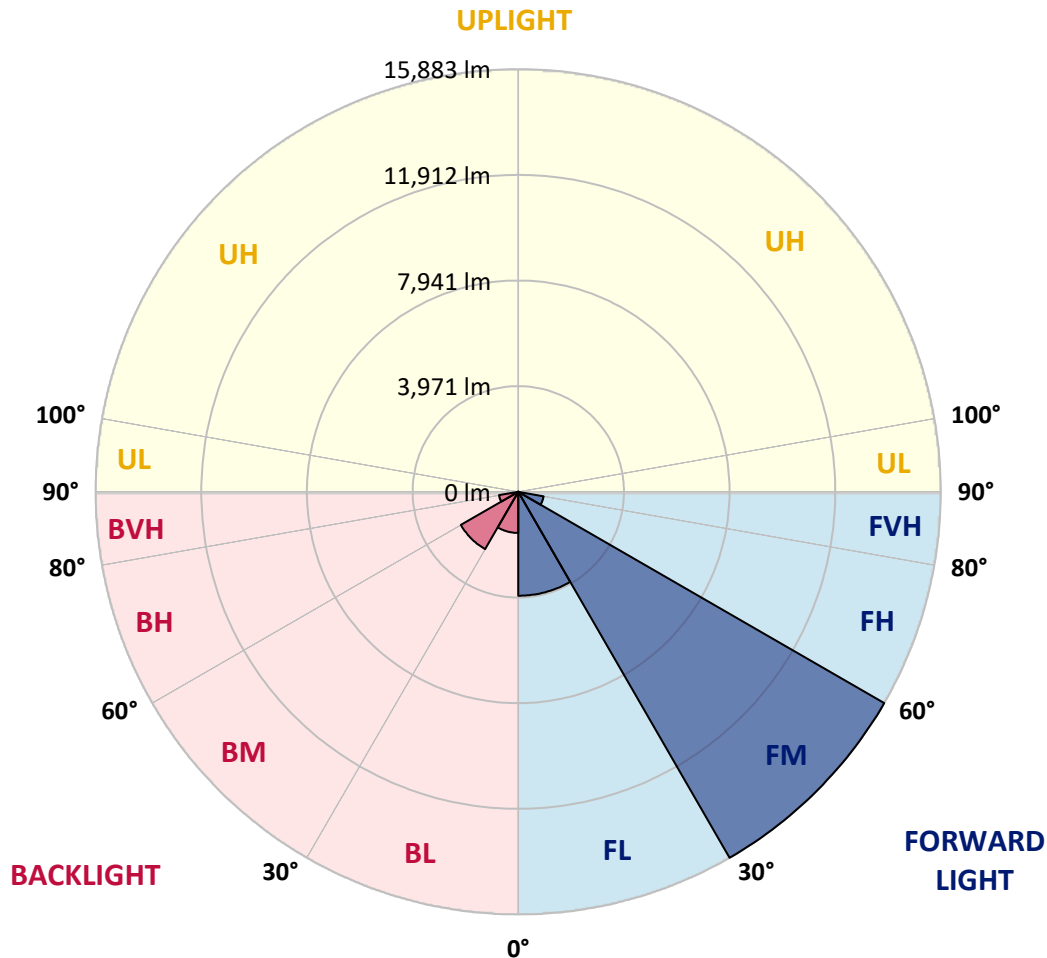
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3905.9  | 15.3      |                         |      |         |
| FM (30°-60°)   | 15882.6 | 62.0      |                         |      |         |
| FH (60°-80°)   | 969.0   | 3.8       |                         |      | G1/1800 |
| FVH (80°-90°)  | 35.8    | 0.1       |                         |      | G1/100  |
| BL (0°-30°)    | 1546.2  | 6.0       | B3/2500                 |      |         |
| BM (30°-60°)   | 2489.9  | 9.7       | B2/2500                 |      |         |
| BH (60°-80°)   | 733.4   | 2.9       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 44.1    | 0.2       |                         |      | 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°     | 52°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7218.1  | 7218.1  | 7218.1  | 7218.1  | 7218.1  | 7218.1  | 7218.1  | 7218.1  | 7218.1  | 7218.1  | 7218.1  |
| 2.5°  | 8498.8  | 8335.2  | 8353.7  | 8236.5  | 8110.0  | 8072.9  | 7943.3  | 7819.9  | 7727.3  | 7529.8  | 7347.7  |
| 5°    | 9288.8  | 9239.5  | 9165.4  | 9072.8  | 8977.2  | 8742.6  | 8609.9  | 8455.6  | 8116.2  | 7810.6  | 7508.2  |
| 7.5°  | 9403.0  | 9393.7  | 9433.8  | 9433.8  | 9467.8  | 9378.3  | 9190.0  | 9082.0  | 8721.0  | 8224.1  | 7662.5  |
| 10°   | 8600.7  | 8628.4  | 8822.8  | 9075.9  | 9427.7  | 9671.5  | 9640.6  | 9612.9  | 9217.9  | 8538.9  | 7844.6  |
| 12.5° | 7961.8  | 7900.1  | 8014.3  | 8230.4  | 8758.0  | 9347.5  | 9745.5  | 9748.6  | 9646.8  | 9041.9  | 7977.3  |
| 15°   | 7600.8  | 7644.0  | 7674.9  | 7776.7  | 8174.8  | 8856.8  | 9557.3  | 9764.1  | 10211.5 | 9396.8  | 8187.1  |
| 17.5° | 7832.2  | 7687.2  | 7681.0  | 7705.7  | 7909.4  | 8421.7  | 9208.6  | 9563.4  | 10520.2 | 9853.6  | 8446.3  |
| 20°   | 8134.7  | 8131.5  | 8045.2  | 8014.3  | 8011.2  | 8467.9  | 8980.2  | 9461.7  | 10683.7 | 10446.1 | 8708.6  |
| 22.5° | 8665.4  | 8665.4  | 8523.5  | 8455.6  | 8310.6  | 8684.0  | 9011.1  | 9338.2  | 10955.3 | 10853.4 | 8835.2  |
| 25°   | 9554.2  | 9409.2  | 9165.4  | 8998.7  | 8915.4  | 9048.2  | 9338.2  | 9631.4  | 11192.9 | 11285.5 | 9097.5  |
| 27.5° | 10375.1 | 10146.7 | 10026.4 | 9739.4  | 9628.3  | 9551.2  | 9816.5  | 10112.8 | 11470.7 | 11958.2 | 9239.5  |
| 30°   | 11307.1 | 11267.0 | 11050.9 | 10680.6 | 10405.9 | 10264.0 | 10507.8 | 10801.0 | 11979.8 | 12646.4 | 9566.5  |
| 32.5° | 12973.5 | 12609.4 | 12316.2 | 11862.6 | 11415.1 | 11112.6 | 11353.3 | 11547.8 | 12825.3 | 13365.4 | 9924.6  |
| 35°   | 14772.6 | 14655.4 | 14149.2 | 13331.4 | 12646.4 | 12374.8 | 12516.8 | 12661.8 | 13809.8 | 14464.0 | 10526.3 |
| 37.5° | 16540.9 | 16380.4 | 15963.8 | 15275.7 | 14442.4 | 13890.0 | 13991.9 | 14161.6 | 14914.5 | 15945.3 | 11260.7 |
| 40°   | 17812.3 | 17614.8 | 17405.0 | 17303.2 | 16476.1 | 15720.1 | 15661.4 | 15704.6 | 16408.2 | 17334.0 | 12075.5 |
| 42.5° | 17904.9 | 18148.7 | 18213.5 | 18623.9 | 18429.5 | 17809.3 | 17448.1 | 17457.4 | 17833.9 | 18707.3 | 12899.4 |
| 45°   | 17710.5 | 17485.2 | 17963.5 | 19083.7 | 19725.7 | 20015.7 | 19407.8 | 19330.6 | 18716.5 | 19503.5 | 13309.8 |
| 47.5° | 15670.6 | 15732.3 | 16540.9 | 18312.3 | 20166.9 | 21463.1 | 21321.1 | 21064.9 | 19188.7 | 19475.6 | 13245.1 |
| 50°   | 12387.2 | 12760.6 | 13510.4 | 15716.9 | 18932.5 | 21691.4 | 22527.7 | 21935.2 | 18907.9 | 18710.3 | 12584.6 |
| 52.5° | 8248.9  | 8403.1  | 8896.9  | 11745.2 | 15223.2 | 19389.3 | 21139.0 | 21274.8 | 18648.6 | 17707.4 | 11748.3 |
| 55°   | 3672.3  | 3659.9  | 4354.4  | 6134.9  | 9551.2  | 14754.1 | 17272.3 | 18099.3 | 17651.8 | 16685.9 | 10933.7 |
| 57.5° | 1555.3  | 1607.8  | 1891.7  | 2650.8  | 4696.9  | 8903.1  | 11702.1 | 12427.3 | 13575.3 | 13701.7 | 8387.7  |
| 60°   | 1052.3  | 1058.5  | 1135.6  | 1327.0  | 1965.8  | 4181.5  | 6138.0  | 7008.3  | 7829.1  | 7773.6  | 4450.0  |
| 62.5° | 827.0   | 848.7   | 907.3   | 984.4   | 1166.5  | 1897.9  | 2746.5  | 3231.0  | 3283.5  | 2761.9  | 1688.1  |
| 65°   | 706.7   | 709.8   | 768.4   | 833.2   | 913.4   | 1104.8  | 1323.9  | 1348.5  | 1364.0  | 1314.7  | 1240.6  |
| 67.5° | 583.2   | 589.5   | 635.7   | 709.8   | 783.8   | 845.5   | 907.3   | 938.1   | 1009.1  | 1148.0  | 1129.5  |
| 70°   | 462.9   | 472.1   | 512.3   | 574.0   | 641.9   | 678.9   | 756.1   | 783.8   | 848.7   | 956.6   | 999.9   |
| 72.5° | 351.8   | 354.9   | 388.8   | 432.0   | 493.8   | 530.8   | 595.6   | 626.5   | 669.7   | 762.2   | 802.4   |
| 75°   | 253.1   | 262.3   | 287.0   | 308.6   | 317.9   | 342.5   | 404.3   | 438.2   | 499.9   | 540.0   | 543.1   |
| 77.5° | 132.7   | 138.8   | 145.1   | 145.1   | 175.9   | 222.2   | 262.3   | 280.8   | 324.0   | 354.9   | 339.4   |
| 80°   | 52.5    | 55.5    | 71.0    | 95.7    | 123.5   | 160.5   | 188.2   | 197.5   | 234.6   | 253.1   | 262.3   |
| 82.5° | 30.9    | 34.0    | 46.3    | 67.9    | 89.5    | 114.2   | 135.8   | 145.1   | 169.7   | 191.3   | 197.5   |
| 85°   | 15.4    | 18.5    | 27.8    | 43.2    | 58.6    | 71.0    | 67.9    | 64.8    | 64.8    | 61.7    | 64.8    |
| 87.5° | 6.1     | 6.1     | 9.3     | 9.3     | 9.3     | 12.4    | 15.4    | 15.4    | 15.4    | 18.5    | 18.5    |
| 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°    | 7218.1 | 7218.1 | 7218.1 | 7218.1 | 7218.1 | 7218.1 | 7218.1 | 7218.1 | 7218.1 | 7218.1 | 7218.1 |
| 2.5°  | 7227.4 | 7103.9 | 6989.7 | 6779.9 | 6551.6 | 6486.7 | 6221.4 | 6125.7 | 6057.8 | 5977.6 | 5952.9 |
| 5°    | 7264.4 | 7100.8 | 6733.6 | 6310.9 | 5974.5 | 5542.4 | 5258.5 | 4953.0 | 4730.8 | 4675.3 | 4659.8 |
| 7.5°  | 7341.6 | 7060.7 | 6428.1 | 5789.3 | 5101.2 | 4514.8 | 4067.3 | 3826.6 | 3613.7 | 3601.3 | 3579.7 |
| 10°   | 7428.0 | 6940.4 | 6094.8 | 5091.9 | 4212.4 | 3669.2 | 3400.8 | 3295.8 | 3243.4 | 3231.0 | 3224.8 |
| 12.5° | 7498.9 | 6915.7 | 5721.4 | 4413.0 | 3582.8 | 3255.7 | 3175.4 | 3166.2 | 3187.8 | 3194.0 | 3206.3 |
| 15°   | 7529.8 | 6817.0 | 5270.9 | 3805.0 | 3190.9 | 3070.6 | 3104.5 | 3141.6 | 3156.9 | 3197.1 | 3166.2 |
| 17.5° | 7588.4 | 6690.4 | 4715.4 | 3323.6 | 2971.8 | 2993.4 | 3052.1 | 3095.2 | 3119.9 | 3147.7 | 3107.6 |
| 20°   | 7619.3 | 6576.2 | 4193.8 | 3036.6 | 2894.6 | 2934.8 | 3015.0 | 3049.0 | 3079.8 | 3092.2 | 3045.8 |
| 22.5° | 7591.5 | 6341.7 | 3734.0 | 2805.2 | 2820.6 | 2873.0 | 2944.0 | 2981.1 | 2962.5 | 2913.1 | 2885.4 |
| 25°   | 7517.4 | 6011.5 | 3255.7 | 2657.1 | 2715.7 | 2808.3 | 2863.8 | 2836.0 | 2802.0 | 2774.3 | 2765.0 |
| 27.5° | 7514.4 | 5607.2 | 2910.1 | 2521.2 | 2626.2 | 2752.7 | 2734.2 | 2709.5 | 2724.9 | 2703.3 | 2678.7 |
| 30°   | 7529.8 | 5215.3 | 2626.2 | 2444.1 | 2561.3 | 2623.1 | 2644.7 | 2620.0 | 2638.6 | 2598.4 | 2610.7 |
| 32.5° | 7449.6 | 4832.6 | 2441.0 | 2354.6 | 2484.2 | 2481.1 | 2552.1 | 2570.6 | 2527.5 | 2444.1 | 2456.5 |
| 35°   | 7483.6 | 4524.1 | 2283.7 | 2314.5 | 2397.8 | 2397.8 | 2453.4 | 2431.8 | 2317.5 | 2268.2 | 2280.5 |
| 37.5° | 7718.0 | 4221.7 | 2206.4 | 2258.9 | 2314.5 | 2339.2 | 2320.7 | 2228.1 | 2200.3 | 2200.3 | 2206.4 |
| 40°   | 7940.2 | 3962.4 | 2160.2 | 2246.6 | 2237.3 | 2252.8 | 2117.0 | 2126.2 | 2126.2 | 2129.3 | 2113.9 |
| 42.5° | 8137.8 | 3786.5 | 2123.2 | 2172.6 | 2187.9 | 2107.7 | 2024.4 | 2015.1 | 2036.7 | 2033.7 | 2021.3 |
| 45°   | 8208.7 | 3641.4 | 2070.7 | 2089.2 | 2101.6 | 1968.9 | 1928.7 | 1910.2 | 1934.9 | 1944.1 | 1956.5 |
| 47.5° | 7937.2 | 3521.1 | 2012.1 | 1975.0 | 1950.4 | 1863.9 | 1811.5 | 1777.5 | 1808.4 | 1860.9 | 1873.2 |
| 50°   | 7588.4 | 3363.7 | 1919.5 | 1848.5 | 1796.0 | 1759.0 | 1721.9 | 1688.1 | 1709.7 | 1746.7 | 1737.4 |
| 52.5° | 7073.1 | 3116.8 | 1802.2 | 1728.2 | 1638.7 | 1647.9 | 1614.0 | 1595.5 | 1607.8 | 1607.8 | 1598.6 |
| 55°   | 6338.6 | 2561.3 | 1604.7 | 1552.2 | 1478.2 | 1502.9 | 1509.0 | 1484.4 | 1459.6 | 1481.3 | 1462.8 |
| 57.5° | 4326.5 | 1808.4 | 1431.9 | 1431.9 | 1357.8 | 1391.8 | 1388.7 | 1330.0 | 1271.4 | 1277.6 | 1265.3 |
| 60°   | 2502.7 | 1441.1 | 1320.8 | 1308.4 | 1231.3 | 1259.1 | 1265.3 | 1225.2 | 1135.6 | 1141.8 | 1129.5 |
| 62.5° | 1422.6 | 1231.3 | 1154.2 | 1135.6 | 1120.2 | 1144.9 | 1144.9 | 1092.5 | 1015.3 | 1021.5 | 1009.1 |
| 65°   | 1209.7 | 1141.8 | 1030.7 | 1027.6 | 1021.5 | 1027.6 | 1003.0 | 947.4  | 879.5  | 851.8  | 854.8  |
| 67.5° | 1098.6 | 1055.4 | 947.4  | 919.6  | 901.1  | 898.0  | 851.8  | 799.3  | 768.4  | 743.7  | 740.7  |
| 70°   | 962.9  | 928.9  | 848.7  | 811.6  | 793.1  | 749.9  | 703.6  | 669.7  | 626.5  | 614.1  | 626.5  |
| 72.5° | 762.2  | 759.2  | 728.3  | 688.2  | 648.1  | 614.1  | 574.0  | 527.7  | 487.6  | 478.4  | 456.7  |
| 75°   | 527.7  | 533.9  | 540.0  | 533.9  | 499.9  | 456.7  | 410.4  | 373.4  | 324.0  | 296.3  | 290.1  |
| 77.5° | 345.7  | 354.9  | 364.2  | 351.8  | 330.2  | 290.1  | 259.2  | 212.9  | 175.9  | 154.3  | 151.2  |
| 80°   | 253.1  | 265.4  | 271.6  | 262.3  | 237.6  | 206.8  | 172.8  | 135.8  | 108.0  | 89.5   | 89.5   |
| 82.5° | 194.4  | 206.8  | 212.9  | 197.5  | 172.8  | 148.1  | 123.5  | 95.7   | 74.1   | 58.6   | 55.5   |
| 85°   | 67.9   | 64.8   | 77.1   | 80.2   | 95.7   | 89.5   | 74.1   | 55.5   | 43.2   | 30.9   | 27.8   |
| 87.5° | 18.5   | 18.5   | 21.6   | 21.6   | 18.5   | 15.4   | 15.4   | 15.4   | 12.4   | 9.3    | 9.3    |
| 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)