

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: P529300

Luminaire Tested: **GALN-SA4C-722-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529300  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4C-722-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2200K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17296 lumens  
Efficiency: N/A  
Efficacy: 81.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

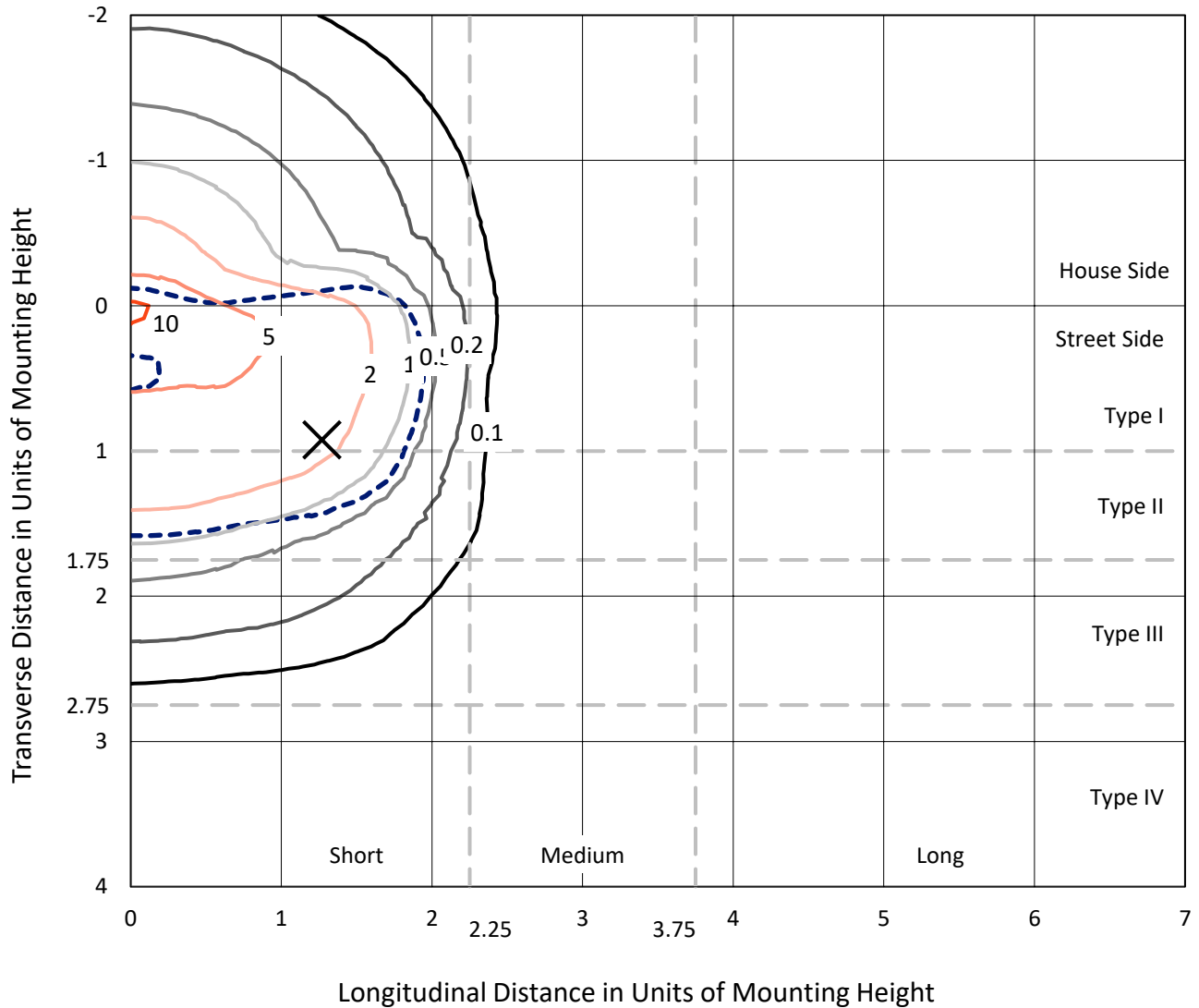
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

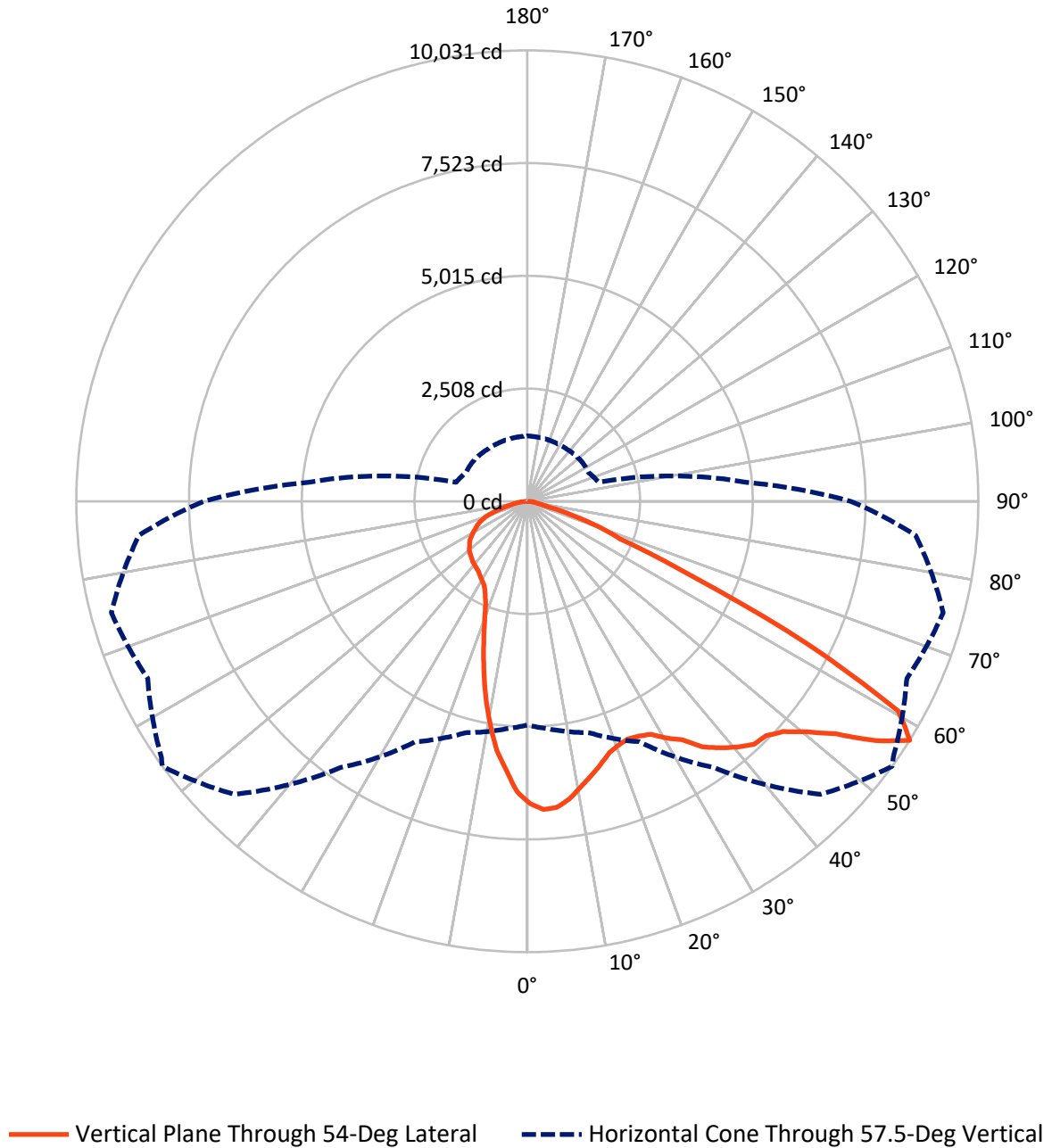
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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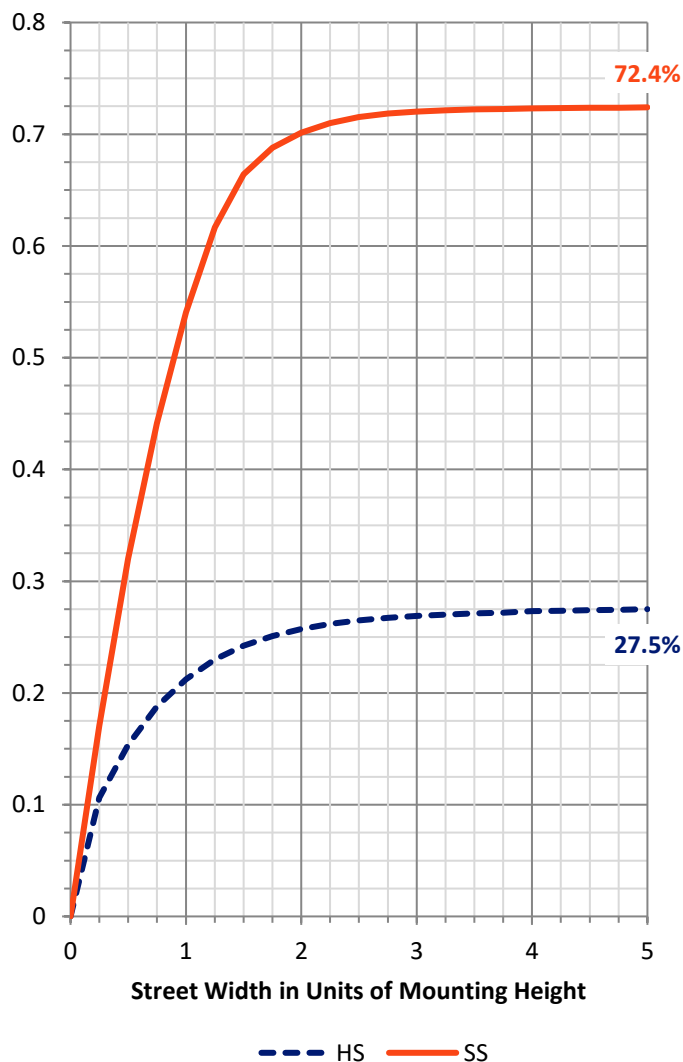
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4785.0   | 0.0    | 4785.0  |
|                    | % Fixture | 27.7     | 0.0    | 27.7    |
| <b>Street Side</b> | Lumens    | 12511.0  | 0.0    | 12511.0 |
|                    | % Fixture | 72.3     | 0.0    | 72.3    |
| <b>Total</b>       | Lumens    | 17296.0  | 0.0    | 17296.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 579.8   | 3.4       |
| 10°-20°   | 1342.4  | 7.8       |
| 20°-30°   | 1886.1  | 10.9      |
| 30°-40°   | 2636.7  | 15.2      |
| 40°-50°   | 3569.6  | 20.6      |
| 50°-60°   | 4348.0  | 25.1      |
| 60°-70°   | 2264.6  | 13.1      |
| 70°-80°   | 580.3   | 3.4       |
| 80°-90°   | 88.5    | 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°    | 17296.0 | 100.0     |
| 0°-180°   | 17296.0 | 100.0     |

**Coefficient of Utilization**

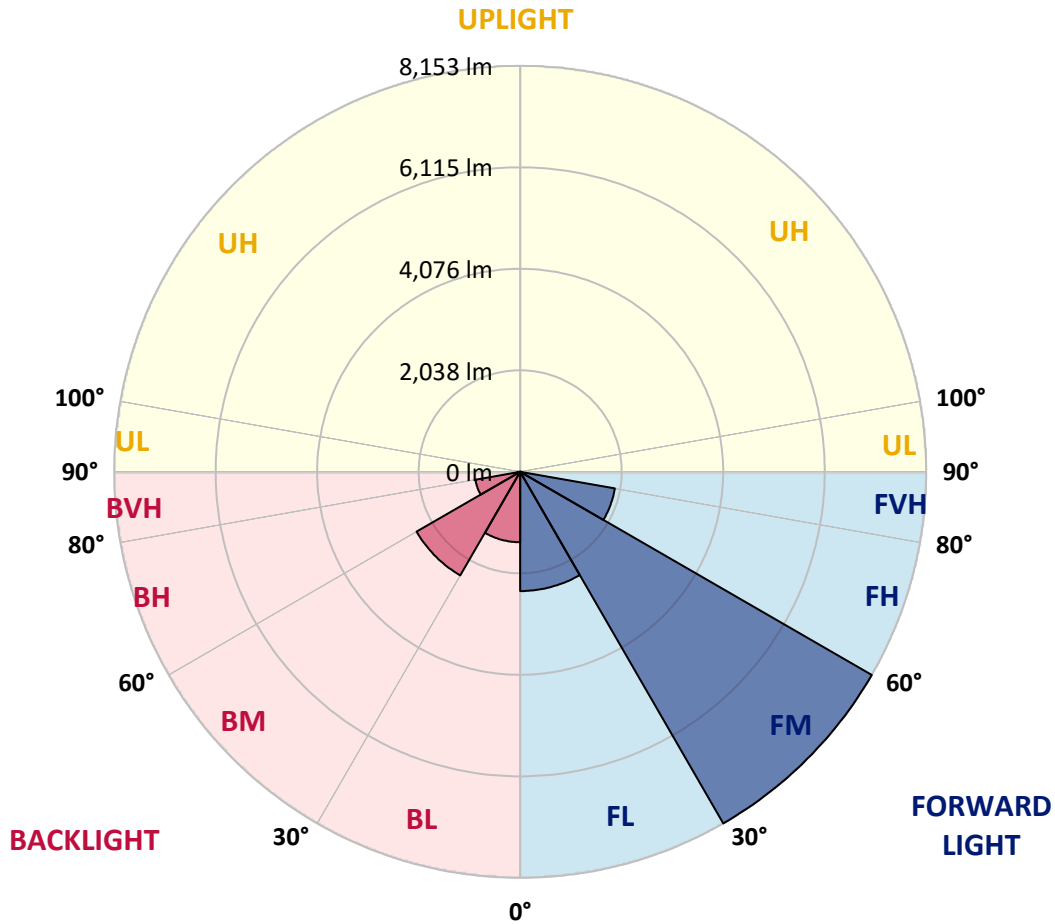


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 2394.0 | 13.8      |                         |      |         |
| FM (30°-60°)   | 8152.8 | 47.1      |                         |      |         |
| FH (60°-80°)   | 1930.7 | 11.2      |                         |      | G2/5000 |
| FVH (80°-90°)  | 33.4   | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 1414.2 | 8.2       | B3/2500                 |      |         |
| BM (30°-60°)   | 2401.6 | 13.9      | B2/2500                 |      |         |
| BH (60°-80°)   | 914.2  | 5.3       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 55.1   | 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°    | 54°     | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|
| 0°    | 6722.8 | 6722.8 | 6722.8 | 6722.8 | 6722.8 | 6722.8 | 6722.8  | 6722.8 | 6722.8 | 6722.8 | 6722.8 |
| 2.5°  | 6913.9 | 6887.3 | 6891.7 | 6927.3 | 6882.8 | 6865.0 | 6865.0  | 6778.3 | 6785.0 | 6725.0 | 6709.4 |
| 5°    | 6753.9 | 6691.6 | 6733.9 | 6787.2 | 6796.1 | 6813.9 | 6842.8  | 6820.6 | 6758.3 | 6693.9 | 6589.4 |
| 7.5°  | 6335.9 | 6391.5 | 6407.1 | 6444.9 | 6524.9 | 6598.3 | 6689.4  | 6627.2 | 6624.9 | 6560.5 | 6498.2 |
| 10°   | 5969.1 | 5935.8 | 6020.2 | 6075.8 | 6209.2 | 6331.5 | 6471.5  | 6464.9 | 6498.2 | 6424.9 | 6318.1 |
| 12.5° | 5604.5 | 5577.8 | 5617.9 | 5744.6 | 5931.3 | 6109.2 | 6275.9  | 6213.7 | 6391.5 | 6378.2 | 6149.2 |
| 15°   | 5217.7 | 5237.7 | 5295.5 | 5413.3 | 5657.9 | 5871.3 | 6082.5  | 6084.7 | 6242.6 | 6295.9 | 5989.1 |
| 17.5° | 4946.5 | 4924.2 | 4997.6 | 5173.2 | 5391.1 | 5646.8 | 5886.9  | 5935.8 | 6178.1 | 6209.2 | 5940.2 |
| 20°   | 4744.2 | 4775.3 | 4870.9 | 4959.8 | 5211.0 | 5520.0 | 5791.3  | 5809.0 | 6164.8 | 6249.2 | 5862.4 |
| 22.5° | 4695.3 | 4677.5 | 4708.6 | 4853.1 | 5059.9 | 5395.5 | 5740.1  | 5806.8 | 6162.5 | 6235.9 | 5715.7 |
| 25°   | 4644.1 | 4701.9 | 4699.7 | 4844.2 | 4995.4 | 5295.5 | 5782.4  | 5855.7 | 6280.4 | 6304.8 | 5735.7 |
| 27.5° | 4759.7 | 4753.1 | 4815.3 | 4826.4 | 5013.2 | 5322.2 | 5871.3  | 5926.9 | 6476.0 | 6456.0 | 5751.2 |
| 30°   | 4875.3 | 4842.0 | 4879.8 | 5010.9 | 5097.6 | 5475.6 | 6115.8  | 6111.4 | 6729.4 | 6716.1 | 5800.2 |
| 32.5° | 5017.6 | 5002.1 | 5026.5 | 5142.1 | 5288.8 | 5680.1 | 6322.6  | 6453.8 | 6987.3 | 7071.8 | 5969.1 |
| 35°   | 5044.3 | 5108.8 | 5166.6 | 5322.2 | 5531.2 | 6011.4 | 6711.6  | 6820.6 | 7285.2 | 7549.8 | 6291.5 |
| 37.5° | 5213.2 | 5237.7 | 5373.3 | 5649.0 | 5840.2 | 6453.8 | 6958.4  | 7027.3 | 7556.4 | 7856.6 | 6631.6 |
| 40°   | 5393.3 | 5422.2 | 5626.8 | 5915.8 | 6178.1 | 6742.8 | 7189.6  | 7211.8 | 7643.1 | 8092.2 | 6853.9 |
| 42.5° | 5637.9 | 5664.5 | 5866.9 | 6229.2 | 6580.5 | 6989.5 | 7394.1  | 7418.6 | 7636.5 | 8363.4 | 7207.4 |
| 45°   | 5891.3 | 5955.8 | 6193.7 | 6604.9 | 6920.6 | 7278.5 | 7440.8  | 7540.9 | 7698.7 | 8605.8 | 7494.2 |
| 47.5° | 6247.0 | 6307.0 | 6502.7 | 6905.1 | 7274.1 | 7532.0 | 7656.5  | 7754.3 | 7847.7 | 8816.9 | 7678.7 |
| 50°   | 6624.9 | 6636.1 | 6873.9 | 7238.5 | 7509.7 | 7818.8 | 8058.9  | 8092.2 | 8043.3 | 9061.5 | 7992.2 |
| 52.5° | 6902.8 | 6938.4 | 7122.9 | 7478.6 | 7883.2 | 8263.4 | 8592.4  | 8628.0 | 8532.4 | 9152.6 | 8098.9 |
| 55°   | 6442.6 | 6422.6 | 6722.8 | 7196.3 | 8134.4 | 8925.9 | 9403.9  | 9430.5 | 8888.1 | 9435.0 | 8447.9 |
| 57.5° | 4979.8 | 5075.4 | 5331.1 | 5902.4 | 7227.4 | 9219.3 | 10030.8 | 9935.2 | 9314.9 | 9577.3 | 8670.2 |
| 60°   | 3619.3 | 3597.0 | 3768.2 | 4150.6 | 5446.7 | 7945.5 | 9483.9  | 9581.7 | 8965.9 | 8632.4 | 7149.6 |
| 62.5° | 2947.9 | 2916.8 | 2930.1 | 2943.4 | 3514.8 | 5273.3 | 7020.7  | 7018.4 | 6905.1 | 6204.8 | 4822.0 |
| 65°   | 2356.5 | 2429.9 | 2436.6 | 2536.6 | 2610.0 | 3150.2 | 4068.3  | 4286.2 | 3732.6 | 3061.3 | 2220.9 |
| 67.5° | 1776.3 | 1749.6 | 1838.5 | 2194.2 | 2332.1 | 2274.3 | 2220.9  | 2245.4 | 1596.2 | 1151.6 | 1084.9 |
| 70°   | 1047.1 | 1036.0 | 1142.7 | 1529.5 | 1920.8 | 1807.4 | 1674.0  | 1676.2 | 1096.0 | 804.8  | 895.9  |
| 72.5° | 573.6  | 571.3  | 593.6  | 775.9  | 1091.6 | 1133.8 | 1004.9  | 1036.0 | 653.6  | 651.4  | 700.3  |
| 75°   | 320.1  | 313.5  | 306.8  | 342.4  | 393.5  | 415.7  | 424.6   | 429.1  | 449.1  | 502.4  | 522.4  |
| 77.5° | 117.8  | 113.4  | 113.4  | 131.2  | 166.7  | 209.0  | 264.6   | 269.0  | 317.9  | 364.6  | 384.6  |
| 80°   | 40.0   | 44.5   | 60.0   | 82.3   | 111.2  | 148.9  | 180.1   | 184.5  | 224.5  | 255.7  | 262.3  |
| 82.5° | 24.5   | 26.7   | 40.0   | 57.8   | 80.0   | 104.5  | 133.4   | 135.6  | 166.7  | 186.7  | 195.6  |
| 85°   | 11.1   | 13.3   | 22.2   | 35.6   | 51.1   | 68.9   | 71.1    | 71.1   | 68.9   | 71.1   | 66.7   |
| 87.5° | 0.0    | 0.0    | 4.4    | 4.4    | 4.4    | 6.7    | 8.9     | 6.7    | 11.1   | 13.3   | 13.3   |
| 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°    | 6722.8 | 6722.8 | 6722.8 | 6722.8 | 6722.8 | 6722.8 | 6722.8 | 6722.8 | 6722.8 | 6722.8 | 6722.8 |
| 2.5°  | 6662.7 | 6638.3 | 6562.7 | 6496.0 | 6476.0 | 6387.1 | 6255.9 | 6271.5 | 6175.9 | 6220.3 | 6173.6 |
| 5°    | 6571.6 | 6489.3 | 6295.9 | 6213.7 | 5998.0 | 5900.2 | 5833.5 | 5666.8 | 5589.0 | 5573.4 | 5506.7 |
| 7.5°  | 6338.2 | 6287.0 | 6044.7 | 5822.4 | 5593.4 | 5397.8 | 5146.6 | 4975.4 | 4853.1 | 4819.8 | 4721.9 |
| 10°   | 6153.6 | 6040.3 | 5704.6 | 5366.6 | 5039.8 | 4699.7 | 4372.9 | 4117.2 | 3992.7 | 3848.2 | 3799.3 |
| 12.5° | 5971.3 | 5800.2 | 5346.6 | 4913.1 | 4490.7 | 4061.7 | 3665.9 | 3354.7 | 3083.5 | 3019.0 | 2996.8 |
| 15°   | 5858.0 | 5560.1 | 5026.5 | 4504.1 | 3903.8 | 3343.6 | 2947.9 | 2743.3 | 2576.6 | 2507.7 | 2556.6 |
| 17.5° | 5709.0 | 5362.2 | 4719.7 | 4023.9 | 3363.6 | 2847.8 | 2516.6 | 2389.9 | 2329.8 | 2336.5 | 2316.5 |
| 20°   | 5522.3 | 5175.5 | 4317.3 | 3588.1 | 2881.2 | 2469.9 | 2280.9 | 2234.2 | 2243.1 | 2258.7 | 2252.0 |
| 22.5° | 5388.9 | 4948.7 | 4026.1 | 3143.5 | 2489.9 | 2260.9 | 2183.1 | 2149.8 | 2178.7 | 2192.0 | 2180.9 |
| 25°   | 5286.6 | 4755.3 | 3672.6 | 2750.0 | 2263.2 | 2143.1 | 2107.5 | 2105.3 | 2149.8 | 2167.6 | 2156.4 |
| 27.5° | 5193.2 | 4575.2 | 3321.4 | 2449.9 | 2112.0 | 2052.0 | 2040.8 | 2067.5 | 2096.4 | 2114.2 | 2129.8 |
| 30°   | 5137.7 | 4437.4 | 2992.3 | 2198.7 | 2036.4 | 2007.5 | 1987.5 | 2011.9 | 2027.5 | 2045.3 | 2036.4 |
| 32.5° | 5191.0 | 4339.6 | 2674.4 | 2056.4 | 1974.1 | 1945.2 | 1971.9 | 1956.4 | 1983.0 | 1998.6 | 1974.1 |
| 35°   | 5357.8 | 4252.9 | 2447.7 | 1980.8 | 1903.0 | 1914.1 | 1918.6 | 1911.9 | 1923.0 | 1909.7 | 1938.6 |
| 37.5° | 5522.3 | 4221.7 | 2238.7 | 1916.3 | 1869.7 | 1869.7 | 1865.2 | 1851.9 | 1874.1 | 1869.7 | 1883.0 |
| 40°   | 5731.2 | 4241.7 | 2060.8 | 1847.4 | 1838.5 | 1834.1 | 1816.3 | 1814.1 | 1805.2 | 1807.4 | 1811.9 |
| 42.5° | 5913.5 | 4286.2 | 1958.6 | 1803.0 | 1809.6 | 1818.5 | 1785.2 | 1758.5 | 1769.6 | 1747.4 | 1747.4 |
| 45°   | 6106.9 | 4326.2 | 1867.4 | 1771.8 | 1765.2 | 1762.9 | 1736.3 | 1720.7 | 1711.8 | 1714.0 | 1734.0 |
| 47.5° | 6411.5 | 4384.0 | 1798.5 | 1729.6 | 1734.0 | 1700.7 | 1694.0 | 1674.0 | 1682.9 | 1696.3 | 1698.5 |
| 50°   | 6627.2 | 4506.3 | 1745.2 | 1680.7 | 1696.3 | 1674.0 | 1634.0 | 1625.1 | 1625.1 | 1647.3 | 1642.9 |
| 52.5° | 6778.3 | 4677.5 | 1694.0 | 1627.3 | 1634.0 | 1616.2 | 1602.9 | 1582.9 | 1569.5 | 1600.7 | 1616.2 |
| 55°   | 7240.7 | 4962.0 | 1680.7 | 1582.9 | 1580.6 | 1562.9 | 1538.4 | 1518.4 | 1511.7 | 1516.2 | 1547.3 |
| 57.5° | 7196.3 | 4873.1 | 1638.4 | 1505.1 | 1500.6 | 1476.2 | 1451.7 | 1445.0 | 1442.8 | 1447.3 | 1456.2 |
| 60°   | 5842.4 | 3599.3 | 1462.8 | 1416.1 | 1409.5 | 1405.0 | 1380.6 | 1353.9 | 1340.5 | 1353.9 | 1342.8 |
| 62.5° | 3866.0 | 2409.9 | 1289.4 | 1309.4 | 1313.9 | 1302.8 | 1262.7 | 1236.1 | 1240.5 | 1256.1 | 1231.6 |
| 65°   | 1898.6 | 1416.1 | 1169.4 | 1222.7 | 1227.2 | 1196.0 | 1158.3 | 1127.1 | 1111.6 | 1124.9 | 1113.8 |
| 67.5° | 1084.9 | 1082.7 | 1071.6 | 1127.1 | 1124.9 | 1093.8 | 1033.8 | 1007.1 | 980.4  | 984.8  | 978.2  |
| 70°   | 920.4  | 938.2  | 960.4  | 993.7  | 991.5  | 955.9  | 884.8  | 864.8  | 827.0  | 822.6  | 811.4  |
| 72.5° | 724.7  | 755.9  | 804.8  | 829.2  | 809.2  | 764.8  | 718.1  | 684.7  | 651.4  | 631.4  | 638.0  |
| 75°   | 538.0  | 582.5  | 609.1  | 624.7  | 593.6  | 569.1  | 531.3  | 491.3  | 451.3  | 433.5  | 426.8  |
| 77.5° | 391.3  | 404.6  | 429.1  | 440.2  | 420.2  | 395.7  | 373.5  | 333.5  | 295.7  | 271.2  | 264.6  |
| 80°   | 273.4  | 282.3  | 300.1  | 300.1  | 300.1  | 289.0  | 260.1  | 220.1  | 195.6  | 173.4  | 169.0  |
| 82.5° | 191.2  | 200.1  | 217.9  | 209.0  | 206.8  | 193.4  | 175.6  | 144.5  | 117.8  | 102.3  | 97.8   |
| 85°   | 66.7   | 73.4   | 88.9   | 106.7  | 113.4  | 111.2  | 100.0  | 80.0   | 62.2   | 51.1   | 46.7   |
| 87.5° | 15.6   | 15.6   | 17.8   | 15.6   | 15.6   | 17.8   | 15.6   | 15.6   | 15.6   | 11.1   | 8.9    |
| 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)