

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: P269520

Luminaire Tested: **GLEON-AF-07-LED-E1-T4W-7027-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269520  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-07-LED-E1-T4W-7027-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39847.2 lumens  
Efficiency: N/A  
Efficacy: 88.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G5

Input Watts (W): 448  
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: 25 FT

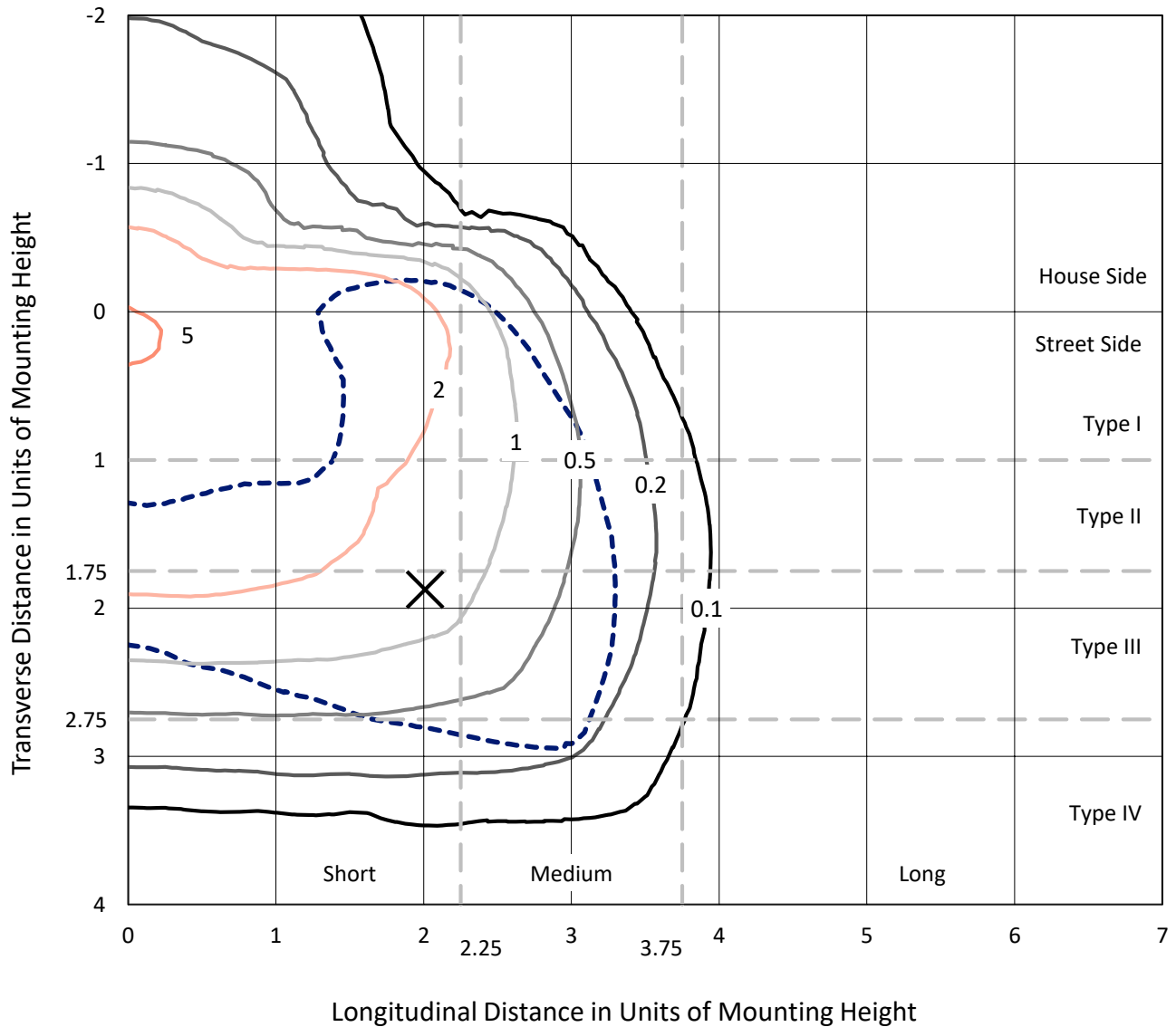


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### Iso-Footcandle Lines of Horizontal Illumination

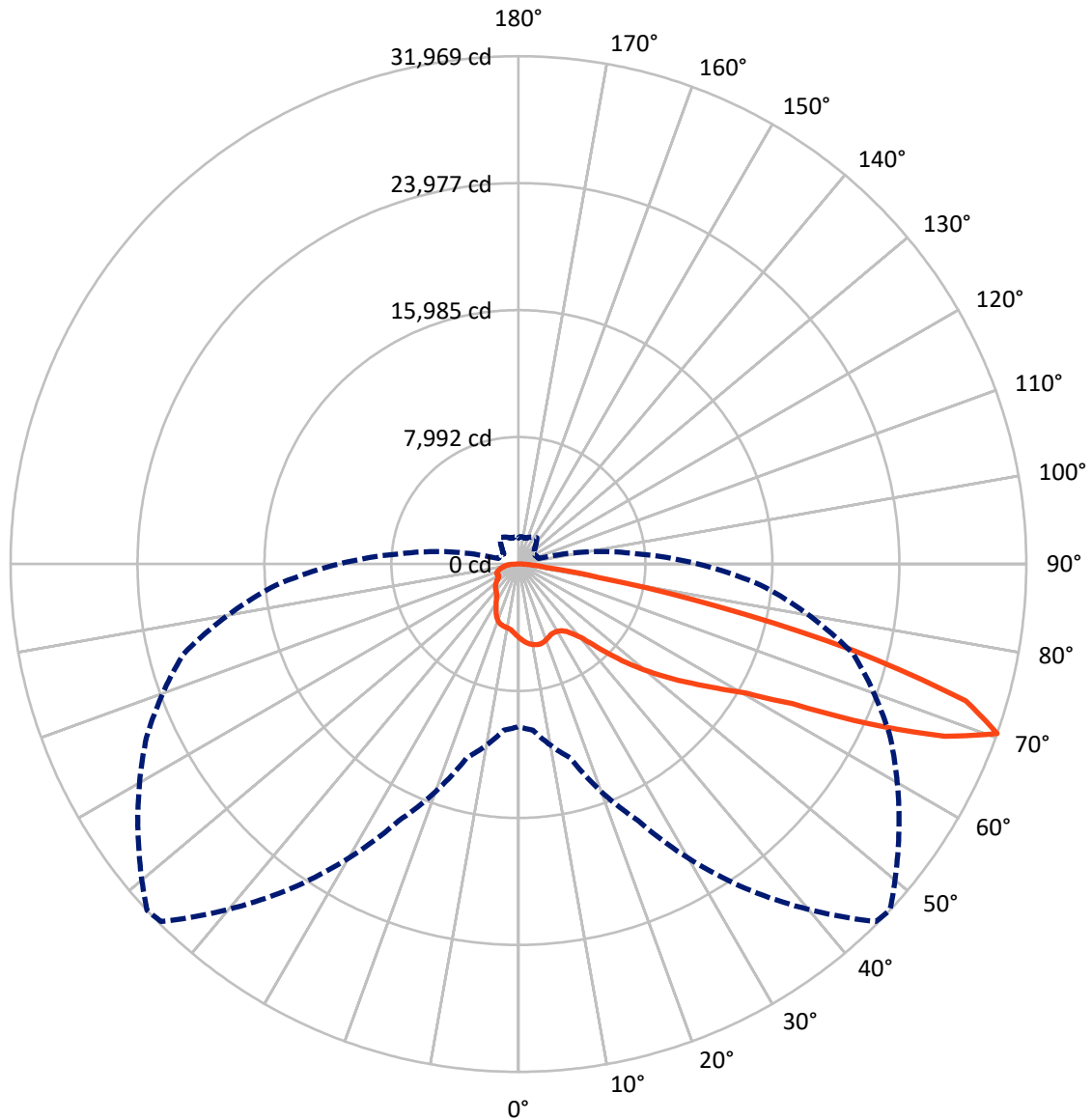
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.9 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8312.9   | 0.0    | 8312.9  |
|                    | % Fixture | 20.9     | 0.0    | 20.9    |
| <b>Street Side</b> | Lumens    | 31534.3  | 0.0    | 31534.3 |
|                    | % Fixture | 79.1     | 0.0    | 79.1    |
| <b>Total</b>       | Lumens    | 39847.2  | 0.0    | 39847.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 443.0   | 1.1       |
| 10°-20°   | 1299.7  | 3.3       |
| 20°-30°   | 1919.3  | 4.8       |
| 30°-40°   | 2789.6  | 7.0       |
| 40°-50°   | 5020.4  | 12.6      |
| 50°-60°   | 8697.2  | 21.8      |
| 60°-70°   | 12413.5 | 31.2      |
| 70°-80°   | 6372.4  | 16.0      |
| 80°-90°   | 892.2   | 2.2       |
| 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°    | 39847.2 | 100.0     |
| 0°-180°   | 39847.2 | 100.0     |

**Coefficient of Utilization**



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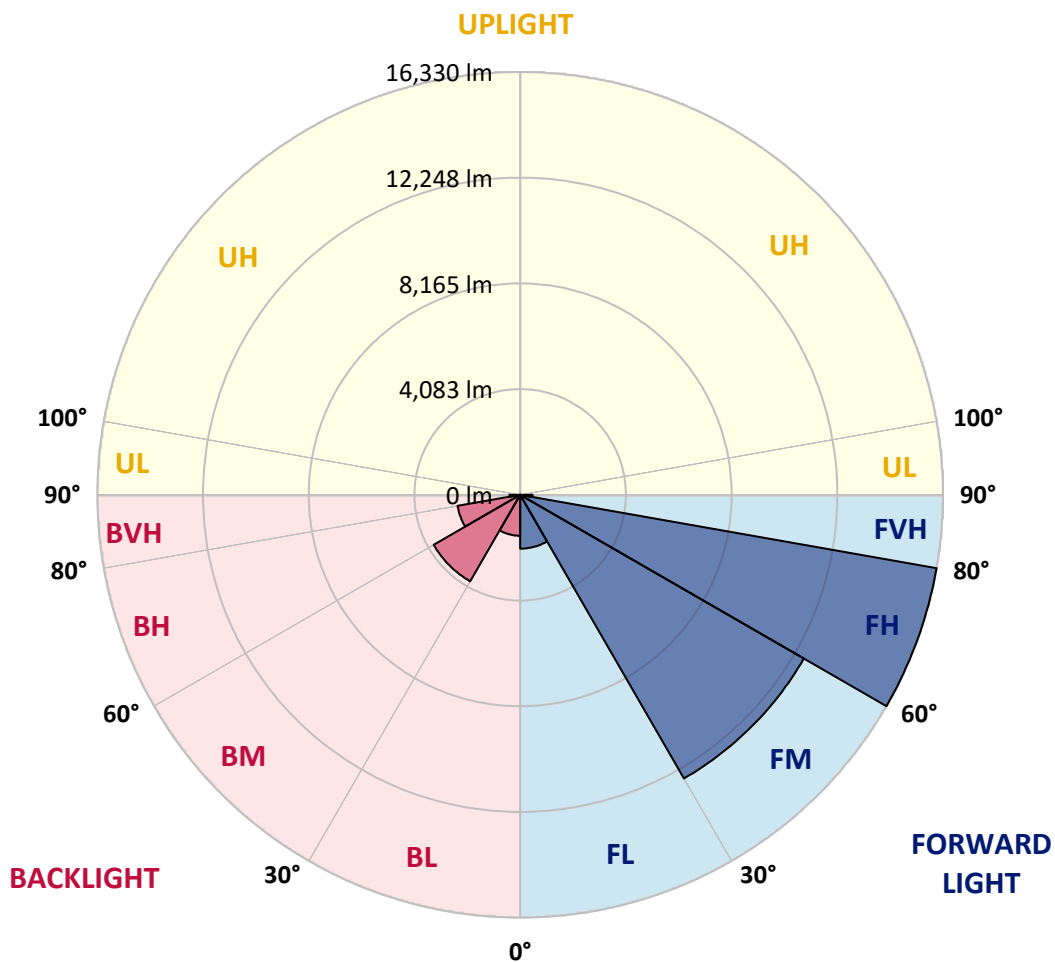
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2079.1  | 5.2       |                         |      |         |
| FM   | (30°-60°)   | 12648.6 | 31.7      |                         |      |         |
| FH   | (60°-80°)   | 16330.5 | 41.0      |                         |      | G5      |
| FVH  | (80°-90°)   | 476.1   | 1.2       |                         |      | G3/500  |
| BL   | (0°-30°)    | 1582.8  | 4.0       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 3858.6  | 9.7       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 2455.4  | 6.2       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 416.1   | 1.0       |                         |      | G3/500  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 47°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4623.4  | 4623.4  | 4623.4  | 4623.4  | 4623.4  | 4623.4  | 4623.4  | 4623.4  | 4623.4  | 4623.4  | 4623.4  |
| 2.5°  | 4895.0  | 4885.3  | 4881.3  | 4873.6  | 4864.0  | 4815.5  | 4805.8  | 4770.9  | 4722.4  | 4671.9  | 4619.7  |
| 5°    | 5216.6  | 5214.8  | 5193.5  | 5154.7  | 5092.6  | 4986.0  | 4960.8  | 4875.6  | 4761.1  | 4650.6  | 4540.2  |
| 7.5°  | 5499.8  | 5482.3  | 5441.7  | 5364.0  | 5255.4  | 5110.1  | 5075.2  | 4956.9  | 4800.0  | 4648.6  | 4499.4  |
| 10°   | 5707.2  | 5697.5  | 5608.3  | 5501.7  | 5360.1  | 5199.3  | 5158.5  | 5026.7  | 4854.3  | 4662.4  | 4476.2  |
| 12.5° | 5825.4  | 5806.0  | 5703.2  | 5575.3  | 5406.7  | 5249.6  | 5208.9  | 5075.2  | 4881.3  | 4662.4  | 4443.2  |
| 15°   | 5817.7  | 5804.0  | 5701.4  | 5561.8  | 5391.2  | 5253.6  | 5216.6  | 5083.0  | 4875.6  | 4642.9  | 4400.5  |
| 17.5° | 5662.6  | 5668.5  | 5581.2  | 5443.5  | 5304.0  | 5199.3  | 5166.3  | 5042.2  | 4836.7  | 4604.2  | 4350.2  |
| 20°   | 5391.2  | 5418.3  | 5360.1  | 5238.0  | 5160.6  | 5088.8  | 5067.5  | 4962.7  | 4776.6  | 4547.8  | 4295.9  |
| 22.5° | 5119.8  | 5145.0  | 5121.7  | 5019.0  | 5007.3  | 4964.8  | 4953.1  | 4877.4  | 4724.4  | 4513.1  | 4262.9  |
| 25°   | 4920.0  | 4943.4  | 4939.5  | 4850.3  | 4885.3  | 4883.2  | 4873.6  | 4836.7  | 4712.7  | 4513.1  | 4268.7  |
| 27.5° | 4865.8  | 4873.6  | 4865.8  | 4784.5  | 4832.9  | 4871.7  | 4864.0  | 4858.0  | 4747.6  | 4569.1  | 4342.4  |
| 30°   | 5052.0  | 5040.3  | 4980.3  | 4815.5  | 4860.0  | 4914.3  | 4906.5  | 4910.4  | 4852.3  | 4716.6  | 4507.2  |
| 32.5° | 5794.3  | 5742.1  | 5552.1  | 5088.8  | 4970.5  | 4999.5  | 5003.5  | 5067.5  | 5077.1  | 4943.4  | 4763.2  |
| 35°   | 6905.2  | 6847.2  | 6600.8  | 5821.6  | 5313.7  | 5212.9  | 5212.9  | 5309.8  | 5367.9  | 5269.1  | 5160.6  |
| 37.5° | 8082.0  | 8017.9  | 7886.1  | 6837.4  | 6034.9  | 5583.1  | 5573.4  | 5641.3  | 5724.5  | 5747.9  | 5775.1  |
| 40°   | 9419.5  | 9351.7  | 9388.5  | 7977.3  | 7040.9  | 6224.7  | 6087.2  | 6038.6  | 6263.5  | 6412.8  | 6629.9  |
| 42.5° | 10883.1 | 10852.2 | 10865.8 | 9247.1  | 8186.7  | 7184.4  | 6988.5  | 6738.5  | 7010.0  | 7275.6  | 7731.1  |
| 45°   | 12238.2 | 12265.4 | 12251.9 | 10606.0 | 9462.1  | 8355.2  | 8147.8  | 7663.3  | 7928.8  | 8384.4  | 9126.8  |
| 47.5° | 13424.7 | 13312.3 | 13486.8 | 12090.9 | 10891.0 | 9665.8  | 9409.8  | 8760.5  | 9029.9  | 9592.1  | 10848.3 |
| 50°   | 14865.1 | 14849.5 | 14593.7 | 14072.2 | 12618.2 | 10982.0 | 10646.7 | 9894.6  | 10313.3 | 11094.4 | 13017.6 |
| 52.5° | 16379.1 | 16097.9 | 15863.3 | 15613.4 | 14450.1 | 12331.4 | 11920.2 | 11024.7 | 11821.4 | 12804.4 | 15661.8 |
| 55°   | 16689.3 | 16563.2 | 16854.0 | 17274.6 | 16216.3 | 13732.8 | 13254.0 | 12441.9 | 13519.6 | 14758.4 | 18711.2 |
| 57.5° | 17352.2 | 17350.3 | 17951.2 | 18701.5 | 18034.6 | 15219.9 | 14737.1 | 14153.5 | 15429.2 | 16997.5 | 21948.6 |
| 60°   | 17800.0 | 17926.0 | 19042.7 | 20498.6 | 19820.1 | 16937.4 | 16493.4 | 16129.0 | 17600.3 | 19500.1 | 24965.1 |
| 62.5° | 18034.6 | 18205.2 | 19728.9 | 21227.5 | 22344.1 | 19796.8 | 19352.8 | 18827.4 | 20473.4 | 22245.2 | 26729.2 |
| 65°   | 17059.5 | 17394.9 | 19622.2 | 21857.5 | 24554.0 | 24431.9 | 24232.3 | 23309.5 | 24065.6 | 24414.5 | 26091.4 |
| 67.5° | 14361.1 | 14704.1 | 17297.9 | 21270.1 | 26132.1 | 28902.2 | 28944.9 | 27368.9 | 26275.6 | 24600.5 | 21937.0 |
| 70°   | 10231.9 | 10501.2 | 12647.2 | 17833.1 | 24930.1 | 31823.7 | 31969.2 | 29239.7 | 25835.4 | 21816.7 | 15326.4 |
| 72.5° | 4858.0  | 5022.9  | 7054.5  | 11606.3 | 19783.3 | 29158.2 | 29439.3 | 26851.2 | 21968.1 | 16152.2 | 8361.1  |
| 75°   | 1785.4  | 1835.9  | 2384.5  | 4937.5  | 11474.5 | 21502.6 | 21834.3 | 19248.2 | 14562.7 | 8041.2  | 3185.1  |
| 77.5° | 1070.2  | 1103.1  | 1337.7  | 2084.0  | 4513.1  | 12290.6 | 12781.1 | 10468.3 | 6364.3  | 2993.2  | 1566.4  |
| 80°   | 748.3   | 771.6   | 959.6   | 1297.0  | 2132.4  | 4683.7  | 5119.8  | 4272.6  | 2535.6  | 1893.9  | 1139.9  |
| 82.5° | 505.9   | 517.7   | 674.6   | 876.2   | 1417.0  | 1673.1  | 1804.9  | 1899.8  | 1709.8  | 1409.4  | 723.0   |
| 85°   | 331.6   | 343.2   | 457.4   | 577.7   | 901.4   | 864.6   | 884.0   | 1118.6  | 1248.5  | 957.7   | 401.4   |
| 87.5° | 190.0   | 197.7   | 275.3   | 308.2   | 442.0   | 366.4   | 370.3   | 589.3   | 798.8   | 645.5   | 244.2   |
| 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°    | 4623.4  | 4623.4  | 4623.4 | 4623.4 | 4623.4 | 4623.4 | 4623.4 | 4623.4 | 4623.4 | 4623.4 | 4623.4 |
| 2.5°  | 4606.1  | 4580.8  | 4524.7 | 4489.8 | 4456.9 | 4449.0 | 4435.6 | 4433.6 | 4431.6 | 4431.6 | 4425.8 |
| 5°    | 4503.4  | 4460.7  | 4373.5 | 4325.0 | 4284.2 | 4280.3 | 4278.4 | 4288.1 | 4292.0 | 4295.9 | 4290.0 |
| 7.5°  | 4437.4  | 4379.2  | 4270.7 | 4201.0 | 4152.4 | 4140.7 | 4160.2 | 4204.7 | 4233.8 | 4245.5 | 4239.7 |
| 10°   | 4396.8  | 4325.0  | 4198.9 | 4123.4 | 4082.6 | 4076.9 | 4102.0 | 4154.4 | 4214.5 | 4237.8 | 4235.8 |
| 12.5° | 4350.2  | 4268.7  | 4135.0 | 4055.5 | 4032.2 | 4043.9 | 4076.9 | 4125.2 | 4187.3 | 4224.2 | 4226.0 |
| 15°   | 4303.6  | 4208.6  | 4070.9 | 4001.2 | 3991.4 | 4007.0 | 4038.2 | 4074.9 | 4123.4 | 4160.2 | 4164.1 |
| 17.5° | 4247.5  | 4148.6  | 4010.9 | 3939.2 | 3931.4 | 3939.2 | 3941.1 | 3960.4 | 3991.4 | 4026.5 | 4036.2 |
| 20°   | 4187.3  | 4086.5  | 3943.1 | 3871.3 | 3836.4 | 3805.4 | 3770.5 | 3774.4 | 3784.1 | 3819.1 | 3826.8 |
| 22.5° | 4144.7  | 4043.9  | 3890.6 | 3791.8 | 3698.9 | 3605.7 | 3536.0 | 3526.2 | 3530.2 | 3559.3 | 3569.0 |
| 25°   | 4148.6  | 4042.0  | 3877.2 | 3706.5 | 3503.0 | 3353.7 | 3260.7 | 3245.1 | 3243.2 | 3264.6 | 3278.2 |
| 27.5° | 4224.2  | 4117.6  | 3927.6 | 3619.4 | 3289.8 | 3068.8 | 2969.8 | 2958.3 | 2942.8 | 2948.5 | 2964.0 |
| 30°   | 4392.8  | 4294.0  | 4049.6 | 3530.2 | 3059.1 | 2789.5 | 2686.9 | 2675.2 | 2654.0 | 2644.3 | 2655.8 |
| 32.5° | 4668.1  | 4586.7  | 4228.1 | 3444.9 | 2828.5 | 2551.1 | 2446.4 | 2421.3 | 2407.6 | 2396.0 | 2405.8 |
| 35°   | 5125.5  | 5090.8  | 4466.6 | 3351.8 | 2624.8 | 2367.0 | 2272.1 | 2233.2 | 2213.9 | 2235.3 | 2250.8 |
| 37.5° | 5842.8  | 5862.2  | 4778.7 | 3206.4 | 2467.9 | 2244.9 | 2165.4 | 2120.8 | 2091.8 | 2109.2 | 2126.6 |
| 40°   | 6858.6  | 6872.3  | 5123.7 | 3000.9 | 2332.1 | 2173.2 | 2087.8 | 2047.1 | 2006.5 | 1975.5 | 1973.4 |
| 42.5° | 8192.5  | 8054.8  | 5463.0 | 2778.0 | 2175.1 | 2128.5 | 2033.6 | 1983.2 | 1921.1 | 1835.9 | 1818.3 |
| 45°   | 9774.3  | 9291.6  | 5720.8 | 2522.1 | 1998.6 | 2074.2 | 1973.4 | 1903.7 | 1806.8 | 1713.6 | 1704.1 |
| 47.5° | 11596.6 | 10619.6 | 5846.8 | 2256.5 | 1833.9 | 1994.7 | 1899.8 | 1789.3 | 1667.2 | 1620.6 | 1614.9 |
| 50°   | 13822.1 | 12195.6 | 5906.9 | 1998.6 | 1690.4 | 1890.2 | 1793.1 | 1663.3 | 1560.5 | 1550.8 | 1545.1 |
| 52.5° | 16355.8 | 14091.5 | 5926.3 | 1787.4 | 1572.3 | 1754.4 | 1705.9 | 1579.9 | 1498.6 | 1506.3 | 1506.3 |
| 55°   | 19007.7 | 16049.5 | 5662.6 | 1634.2 | 1463.6 | 1614.9 | 1647.9 | 1547.1 | 1479.1 | 1510.1 | 1521.8 |
| 57.5° | 21442.6 | 17784.6 | 4832.9 | 1516.0 | 1360.9 | 1508.3 | 1626.6 | 1578.1 | 1531.5 | 1657.6 | 1665.3 |
| 60°   | 23311.5 | 18810.0 | 3609.6 | 1409.4 | 1285.3 | 1471.3 | 1682.6 | 1696.3 | 1707.9 | 2008.4 | 2049.0 |
| 62.5° | 23702.9 | 18468.9 | 2481.4 | 1326.0 | 1250.4 | 1502.3 | 1785.4 | 1787.4 | 1773.9 | 1983.2 | 2008.4 |
| 65°   | 21906.0 | 16311.2 | 1804.9 | 1279.5 | 1221.2 | 1558.6 | 1872.6 | 1832.0 | 1742.8 | 1901.7 | 1855.2 |
| 67.5° | 17396.8 | 12288.6 | 1502.3 | 1244.6 | 1178.7 | 1554.7 | 1965.8 | 1872.6 | 1725.4 | 1862.9 | 1787.4 |
| 70°   | 11292.2 | 7430.6  | 1337.7 | 1215.4 | 1128.2 | 1481.0 | 2020.0 | 1868.8 | 1674.9 | 1733.1 | 1643.9 |
| 72.5° | 5509.5  | 3322.7  | 1227.2 | 1172.8 | 1075.9 | 1378.3 | 2018.0 | 1833.9 | 1622.6 | 1618.7 | 1570.2 |
| 75°   | 2155.8  | 1521.8  | 1126.4 | 1108.9 | 986.8  | 1261.9 | 1963.8 | 1783.5 | 1560.5 | 1498.6 | 1481.0 |
| 77.5° | 1261.9  | 1085.6  | 998.3  | 1013.8 | 880.1  | 1145.7 | 1884.4 | 1696.3 | 1475.2 | 1401.5 | 1382.2 |
| 80°   | 918.8   | 812.2   | 851.1  | 876.2  | 752.2  | 1029.4 | 1777.7 | 1589.6 | 1380.2 | 1417.0 | 1389.9 |
| 82.5° | 589.3   | 523.4   | 690.2  | 715.3  | 626.2  | 911.2  | 1661.3 | 1477.3 | 1246.5 | 1132.1 | 1104.9 |
| 85°   | 300.5   | 331.6   | 513.7  | 544.7  | 482.7  | 748.3  | 1519.8 | 1328.0 | 1095.4 | 942.1  | 957.7  |
| 87.5° | 168.6   | 226.8   | 327.6  | 366.4  | 341.1  | 575.8  | 1233.0 | 1095.4 | 893.6  | 727.0  | 639.8  |
| 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)