

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: P193988

Luminaire Tested: **GLEON-AF-10-LED-E1-T3-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193988  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-10-LED-E1-T3-8030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38851 lumens  
Efficiency: N/A  
Efficacy: 92.7 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B3 - U0 - G5

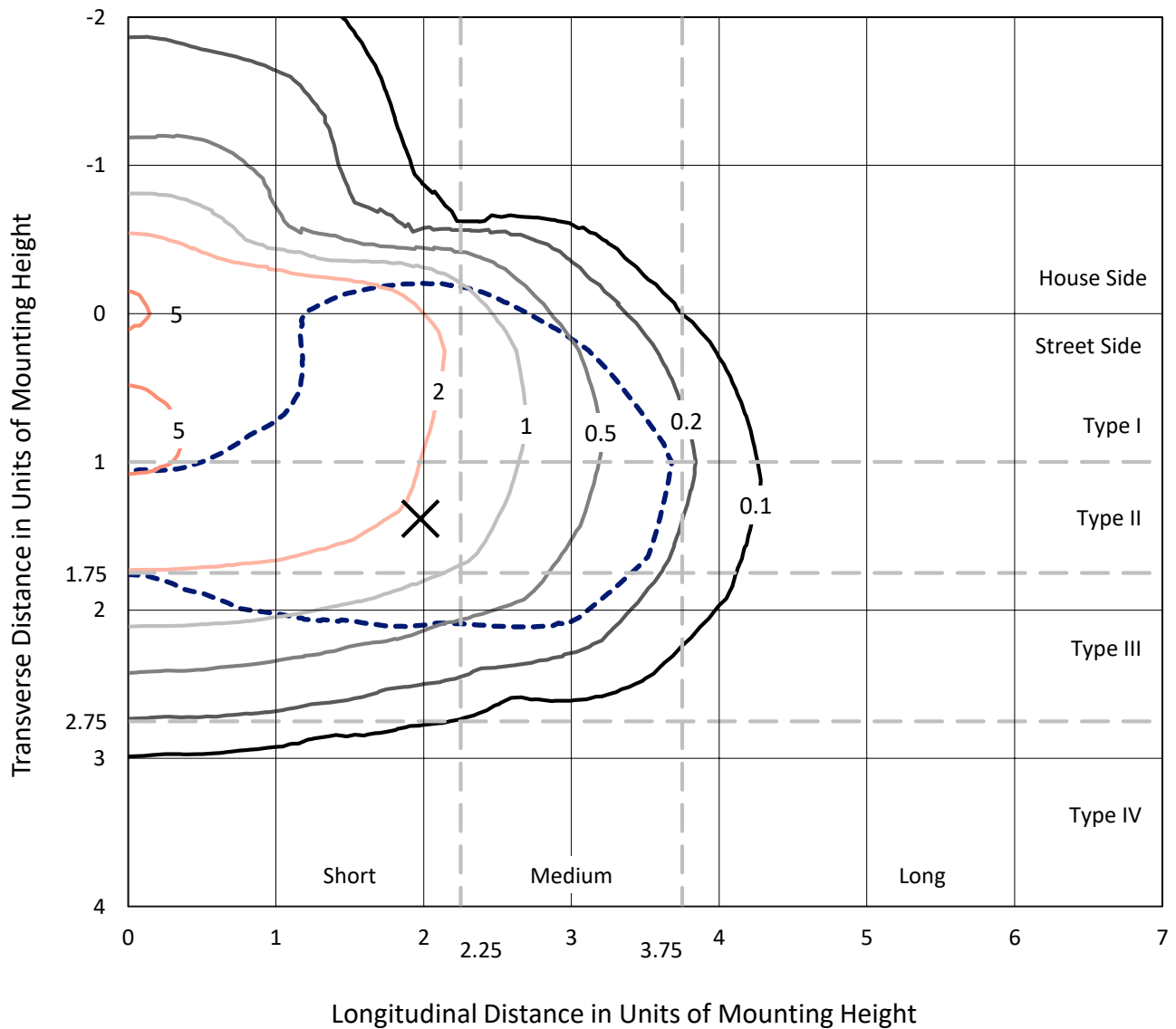
Input Watts (W): 419  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

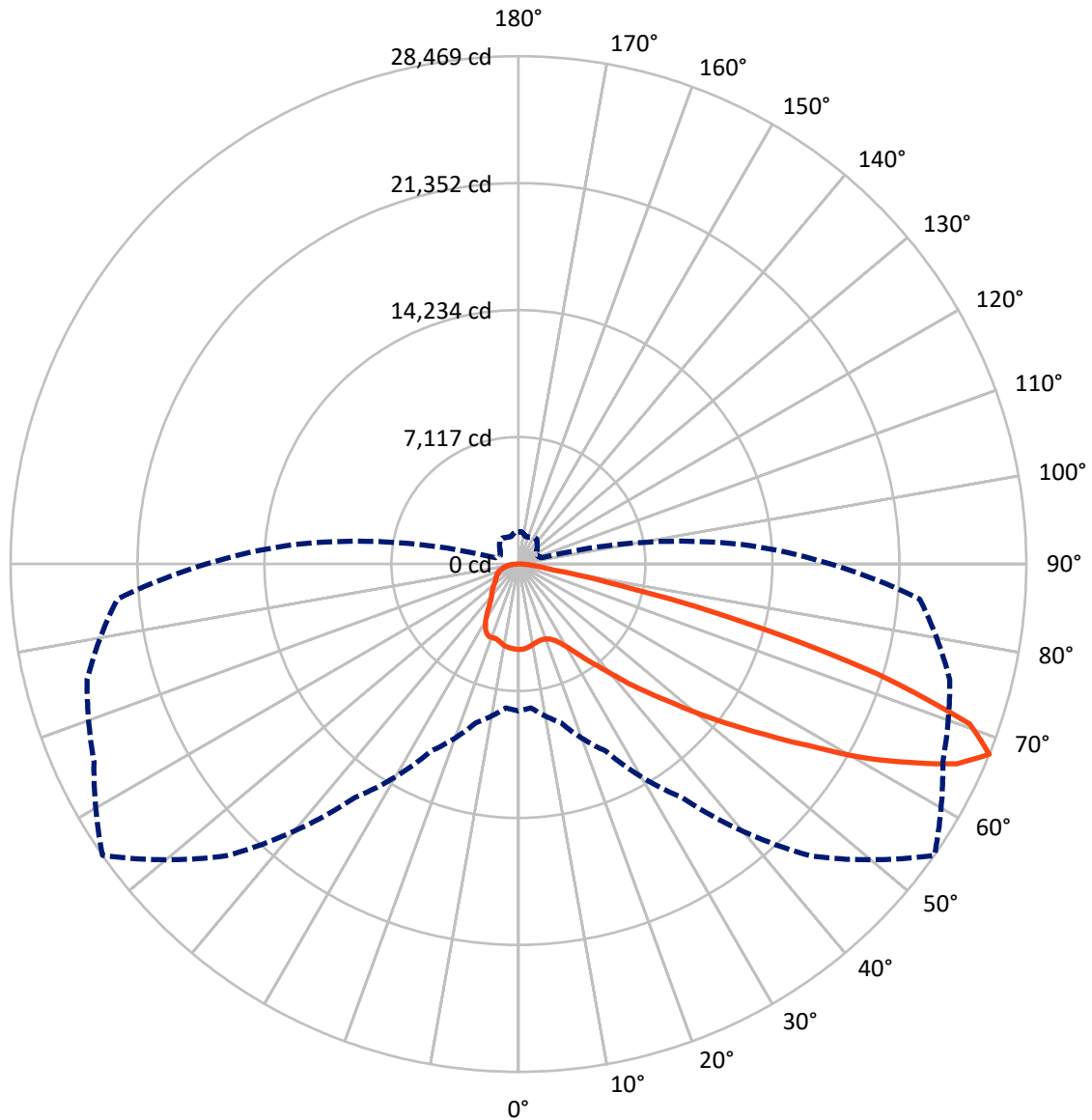
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.5 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8392.6   | 0.0    | 8392.6  |
|                    | % Fixture | 21.6     | 0.0    | 21.6    |
| <b>Street Side</b> | Lumens    | 30458.4  | 0.0    | 30458.4 |
|                    | % Fixture | 78.4     | 0.0    | 78.4    |
| <b>Total</b>       | Lumens    | 38851.0  | 0.0    | 38851.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 447.2   | 1.2       |
| 10°-20°   | 1266.4  | 3.3       |
| 20°-30°   | 2121.4  | 5.5       |
| 30°-40°   | 3488.6  | 9.0       |
| 40°-50°   | 5872.3  | 15.1      |
| 50°-60°   | 9242.6  | 23.8      |
| 60°-70°   | 11030.1 | 28.4      |
| 70°-80°   | 4736.5  | 12.2      |
| 80°-90°   | 645.8   | 1.7       |
| 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°    | 38851.0 | 100.0     |
| 0°-180°   | 38851.0 | 100.0     |



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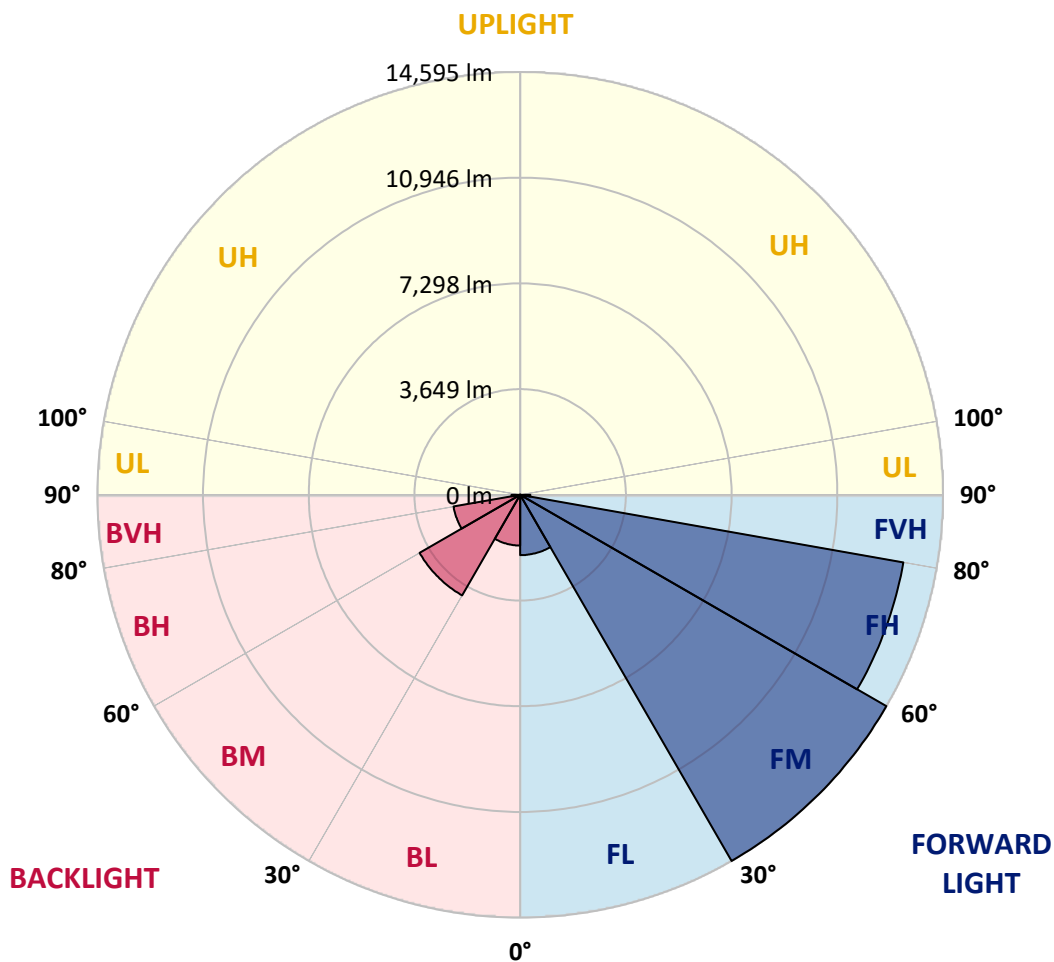
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2082.5  | 5.4       |                         |      |         |
| FM   | (30°-60°)   | 14595.3 | 37.6      |                         |      |         |
| FH   | (60°-80°)   | 13431.0 | 34.6      |                         |      | G5      |
| FVH  | (80°-90°)   | 349.6   | 0.9       |                         |      | G3/500  |
| BL   | (0°-30°)    | 1752.5  | 4.5       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 4008.2  | 10.3      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 2335.6  | 6.0       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 296.2   | 0.8       |                         |      | 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 III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4790.8  | 4790.8  | 4790.8  | 4790.8  | 4790.8  | 4790.8  | 4790.8  | 4790.8  | 4790.8  | 4790.8  | 4790.8  |
| 2.5°  | 4749.5  | 4751.3  | 4755.1  | 4770.1  | 4783.2  | 4779.5  | 4781.4  | 4773.9  | 4772.0  | 4760.7  | 4772.0  |
| 5°    | 4689.4  | 4695.1  | 4696.9  | 4721.3  | 4736.3  | 4740.1  | 4734.5  | 4725.1  | 4713.8  | 4702.6  | 4708.2  |
| 7.5°  | 4552.4  | 4567.4  | 4569.3  | 4603.1  | 4627.5  | 4659.4  | 4661.3  | 4663.1  | 4657.5  | 4650.0  | 4661.3  |
| 10°   | 4466.1  | 4469.9  | 4468.0  | 4492.4  | 4511.2  | 4546.8  | 4567.4  | 4603.1  | 4618.1  | 4621.9  | 4629.4  |
| 12.5° | 4460.5  | 4456.7  | 4451.1  | 4451.1  | 4445.5  | 4460.5  | 4498.0  | 4548.7  | 4584.3  | 4595.6  | 4605.0  |
| 15°   | 4520.5  | 4518.7  | 4499.9  | 4471.7  | 4436.1  | 4424.8  | 4456.7  | 4513.0  | 4559.9  | 4584.3  | 4593.7  |
| 17.5° | 4655.6  | 4644.4  | 4614.4  | 4550.6  | 4473.6  | 4443.6  | 4447.3  | 4494.3  | 4548.7  | 4580.6  | 4590.0  |
| 20°   | 4903.3  | 4903.3  | 4839.5  | 4719.4  | 4582.5  | 4511.2  | 4477.4  | 4505.5  | 4558.1  | 4601.2  | 4614.4  |
| 22.5° | 5331.2  | 5334.9  | 5228.0  | 5030.9  | 4800.1  | 4648.1  | 4563.7  | 4558.1  | 4620.0  | 4668.8  | 4683.8  |
| 25°   | 5937.3  | 5922.3  | 5772.2  | 5490.7  | 5139.8  | 4888.3  | 4742.0  | 4708.2  | 4760.7  | 4815.1  | 4833.9  |
| 27.5° | 6642.9  | 6588.5  | 6410.2  | 6070.5  | 5616.4  | 5248.6  | 5023.4  | 4969.0  | 5019.7  | 5081.6  | 5100.4  |
| 30°   | 7340.9  | 7284.6  | 7072.6  | 6701.0  | 6196.3  | 5730.9  | 5408.1  | 5319.9  | 5391.2  | 5479.4  | 5490.7  |
| 32.5° | 8039.0  | 8039.0  | 7802.6  | 7369.1  | 6819.3  | 6307.0  | 5920.4  | 5815.3  | 5933.6  | 6040.5  | 6064.9  |
| 35°   | 8874.1  | 8877.8  | 8648.9  | 8127.2  | 7536.1  | 6993.8  | 6567.8  | 6490.9  | 6669.1  | 6744.2  | 6802.4  |
| 37.5° | 9900.5  | 9921.2  | 9626.5  | 8996.0  | 8348.6  | 7778.2  | 7271.5  | 7166.4  | 7344.7  | 7549.2  | 7736.9  |
| 40°   | 11009.5 | 11035.8 | 10711.2 | 9934.3  | 9286.9  | 8690.2  | 8142.2  | 7952.7  | 8249.2  | 8639.5  | 8881.6  |
| 42.5° | 12067.9 | 12203.0 | 11889.6 | 11090.2 | 10394.0 | 9776.7  | 9221.2  | 8945.4  | 9316.9  | 9906.1  | 10116.3 |
| 45°   | 13597.3 | 13694.8 | 13148.8 | 12424.4 | 11769.5 | 11079.0 | 10343.4 | 10052.5 | 10572.3 | 11315.4 | 11358.6 |
| 47.5° | 14616.2 | 14543.0 | 14265.3 | 13814.9 | 13400.2 | 12754.7 | 11647.6 | 11328.5 | 12019.1 | 12893.6 | 12651.5 |
| 50°   | 15158.5 | 15181.0 | 15143.5 | 15169.8 | 15184.8 | 14779.5 | 13246.3 | 12809.1 | 13632.9 | 14689.4 | 14132.1 |
| 52.5° | 15665.2 | 15515.1 | 15638.9 | 16254.4 | 16997.5 | 16847.4 | 14985.9 | 14529.9 | 15363.1 | 16682.3 | 15697.1 |
| 55°   | 15653.9 | 15425.0 | 15828.4 | 16914.9 | 18526.9 | 18699.5 | 16939.3 | 16413.9 | 17192.7 | 18819.6 | 17355.9 |
| 57.5° | 15100.3 | 15111.6 | 15732.7 | 17155.1 | 19592.7 | 20440.9 | 19206.2 | 18418.0 | 19133.0 | 20985.1 | 18870.3 |
| 60°   | 14338.5 | 14441.7 | 15336.8 | 17115.7 | 20446.5 | 21869.0 | 21987.2 | 20577.9 | 21033.9 | 22953.6 | 20123.8 |
| 62.5° | 13109.4 | 13218.2 | 14452.9 | 16706.6 | 20317.1 | 23244.4 | 24501.7 | 23028.6 | 23021.1 | 24147.0 | 20491.6 |
| 65°   | 11170.9 | 11139.0 | 12435.7 | 15177.3 | 19230.6 | 24261.5 | 26999.4 | 25147.2 | 24518.6 | 24165.8 | 19752.2 |
| 67.5° | 8237.9  | 8095.3  | 9208.1  | 11559.4 | 15984.2 | 23122.5 | 28468.7 | 26250.6 | 25029.0 | 22576.4 | 17492.9 |
| 70°   | 4274.7  | 4132.1  | 5032.8  | 6749.8  | 10512.3 | 18046.5 | 26841.7 | 25680.2 | 23901.2 | 18924.7 | 13704.2 |
| 72.5° | 1827.7  | 1803.3  | 2169.3  | 2961.1  | 5085.4  | 10409.1 | 21047.0 | 22227.4 | 20508.5 | 14100.2 | 9422.0  |
| 75°   | 1229.1  | 1221.6  | 1358.6  | 1613.8  | 2287.5  | 4224.0  | 13171.3 | 15777.8 | 15004.6 | 8742.7  | 5299.3  |
| 77.5° | 964.5   | 955.1   | 1035.8  | 1159.7  | 1482.4  | 1666.3  | 5845.4  | 8470.6  | 7840.1  | 3805.6  | 2319.4  |
| 80°   | 754.4   | 746.9   | 797.5   | 865.1   | 1065.9  | 1050.9  | 1923.4  | 3370.2  | 2608.4  | 1458.1  | 1127.8  |
| 82.5° | 594.9   | 594.9   | 636.1   | 638.0   | 756.2   | 716.8   | 1003.9  | 1484.3  | 1302.3  | 850.1   | 690.6   |
| 85°   | 544.2   | 544.2   | 587.4   | 476.6   | 493.5   | 452.2   | 623.0   | 880.1   | 825.7   | 349.0   | 300.2   |
| 87.5° | 274.0   | 266.5   | 493.5   | 422.2   | 268.3   | 240.2   | 304.0   | 426.0   | 457.9   | 193.3   | 150.1   |
| 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):**

|       | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 4790.8  | 4790.8 | 4790.8 | 4790.8 | 4790.8 | 4790.8 | 4790.8 | 4790.8 | 4790.8 | 4790.8 |
| 2.5°  | 4768.2  | 4766.4 | 4770.1 | 4772.0 | 4787.0 | 4807.6 | 4817.0 | 4830.2 | 4837.7 | 4833.9 |
| 5°    | 4711.9  | 4715.7 | 4730.7 | 4742.0 | 4768.2 | 4802.0 | 4820.8 | 4835.8 | 4848.9 | 4843.3 |
| 7.5°  | 4665.0  | 4674.4 | 4696.9 | 4706.3 | 4721.3 | 4730.7 | 4728.8 | 4734.5 | 4745.7 | 4732.6 |
| 10°   | 4638.8  | 4650.0 | 4666.9 | 4653.8 | 4618.1 | 4567.4 | 4520.5 | 4496.1 | 4503.6 | 4494.3 |
| 12.5° | 4612.5  | 4627.5 | 4614.4 | 4552.4 | 4453.0 | 4387.3 | 4351.6 | 4355.4 | 4372.3 | 4376.0 |
| 15°   | 4597.5  | 4603.1 | 4546.8 | 4430.5 | 4329.1 | 4319.7 | 4338.5 | 4334.8 | 4336.6 | 4336.6 |
| 17.5° | 4597.5  | 4582.5 | 4477.4 | 4361.0 | 4317.9 | 4301.0 | 4242.8 | 4169.6 | 4137.7 | 4126.5 |
| 20°   | 4621.9  | 4582.5 | 4454.9 | 4377.9 | 4284.1 | 4139.6 | 3985.7 | 3850.6 | 3790.6 | 3773.7 |
| 22.5° | 4695.1  | 4627.5 | 4518.7 | 4385.4 | 4119.0 | 3876.9 | 3632.9 | 3471.6 | 3362.7 | 3344.0 |
| 25°   | 4843.3  | 4768.2 | 4644.4 | 4286.0 | 3856.2 | 3511.0 | 3233.2 | 3053.1 | 2944.3 | 2929.2 |
| 27.5° | 5102.3  | 5053.5 | 4711.9 | 4066.4 | 3507.2 | 3137.5 | 2880.5 | 2741.6 | 2660.9 | 2655.3 |
| 30°   | 5492.6  | 5468.2 | 4678.2 | 3741.8 | 3077.5 | 2775.4 | 2651.5 | 2570.8 | 2510.8 | 2508.9 |
| 32.5° | 6115.6  | 5918.5 | 4567.4 | 3345.8 | 2685.3 | 2518.3 | 2467.6 | 2418.8 | 2371.9 | 2371.9 |
| 35°   | 6916.8  | 6282.6 | 4357.3 | 2921.7 | 2447.0 | 2375.7 | 2311.9 | 2234.9 | 2173.0 | 2169.3 |
| 37.5° | 7858.9  | 6507.8 | 3980.1 | 2580.2 | 2334.4 | 2280.0 | 2186.1 | 2071.7 | 1962.8 | 1944.1 |
| 40°   | 8810.3  | 6575.3 | 3449.0 | 2370.0 | 2263.1 | 2184.3 | 2069.8 | 1934.7 | 1829.6 | 1824.0 |
| 42.5° | 9682.8  | 6445.8 | 2886.1 | 2225.6 | 2191.8 | 2086.7 | 1966.6 | 1846.5 | 1763.9 | 1762.1 |
| 45°   | 10414.7 | 6109.9 | 2413.2 | 2088.6 | 2116.7 | 1998.5 | 1891.5 | 1794.0 | 1730.2 | 1717.0 |
| 47.5° | 11103.4 | 5635.2 | 2081.1 | 1944.1 | 2041.7 | 1949.7 | 1859.6 | 1767.7 | 1705.8 | 1696.4 |
| 50°   | 11902.8 | 5122.9 | 1848.4 | 1803.3 | 1976.0 | 1932.8 | 1885.9 | 1790.2 | 1687.0 | 1675.7 |
| 52.5° | 12871.0 | 4680.0 | 1666.3 | 1679.5 | 1925.3 | 1955.3 | 1953.5 | 1854.0 | 1673.9 | 1658.8 |
| 55°   | 13951.9 | 4188.4 | 1529.4 | 1578.2 | 1904.7 | 1996.6 | 1970.3 | 1914.0 | 1685.1 | 1662.6 |
| 57.5° | 15015.9 | 3614.2 | 1433.7 | 1501.2 | 1874.6 | 1992.9 | 1889.7 | 1809.0 | 1711.4 | 1679.5 |
| 60°   | 15813.4 | 2842.9 | 1360.5 | 1433.7 | 1809.0 | 1930.9 | 1801.5 | 1694.5 | 1705.8 | 1681.4 |
| 62.5° | 15866.0 | 2197.4 | 1272.3 | 1375.5 | 1709.5 | 1869.0 | 1743.3 | 1643.8 | 1730.2 | 1707.6 |
| 65°   | 14933.3 | 1660.7 | 1187.8 | 1306.1 | 1602.5 | 1829.6 | 1687.0 | 1615.7 | 1780.8 | 1756.4 |
| 67.5° | 12572.7 | 1336.1 | 1116.5 | 1234.7 | 1495.6 | 1747.0 | 1636.3 | 1589.4 | 1825.9 | 1782.7 |
| 70°   | 9076.7  | 1139.0 | 1047.1 | 1148.4 | 1399.9 | 1653.2 | 1591.3 | 1542.5 | 1703.9 | 1636.3 |
| 72.5° | 5588.3  | 987.0  | 968.3  | 1034.0 | 1326.7 | 1555.6 | 1523.7 | 1454.3 | 1535.0 | 1480.6 |
| 75°   | 2790.4  | 855.7  | 880.1  | 921.4  | 1223.5 | 1444.9 | 1411.1 | 1341.7 | 1353.0 | 1341.7 |
| 77.5° | 1336.1  | 731.8  | 776.9  | 808.8  | 1090.3 | 1319.2 | 1283.5 | 1212.2 | 1199.1 | 1201.0 |
| 80°   | 846.3   | 611.7  | 654.9  | 677.4  | 973.9  | 1172.8 | 1137.2 | 1065.9 | 1216.0 | 1127.8 |
| 82.5° | 529.2   | 497.3  | 508.5  | 549.8  | 848.2  | 1020.8 | 973.9  | 910.1  | 1095.9 | 867.0  |
| 85°   | 292.7   | 347.2  | 362.2  | 397.8  | 653.0  | 853.8  | 806.9  | 726.2  | 651.2  | 639.9  |
| 87.5° | 174.5   | 206.4  | 212.0  | 238.3  | 439.1  | 617.4  | 546.1  | 517.9  | 429.7  | 427.8  |
| 90°   | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)