

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: P193675

Luminaire Tested: **GLEON-AF-07-LED-E1-SL3-8030-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193675  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)  
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-SL3-8030-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29351 lumens  
Efficiency: N/A  
Efficacy: 75.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G4

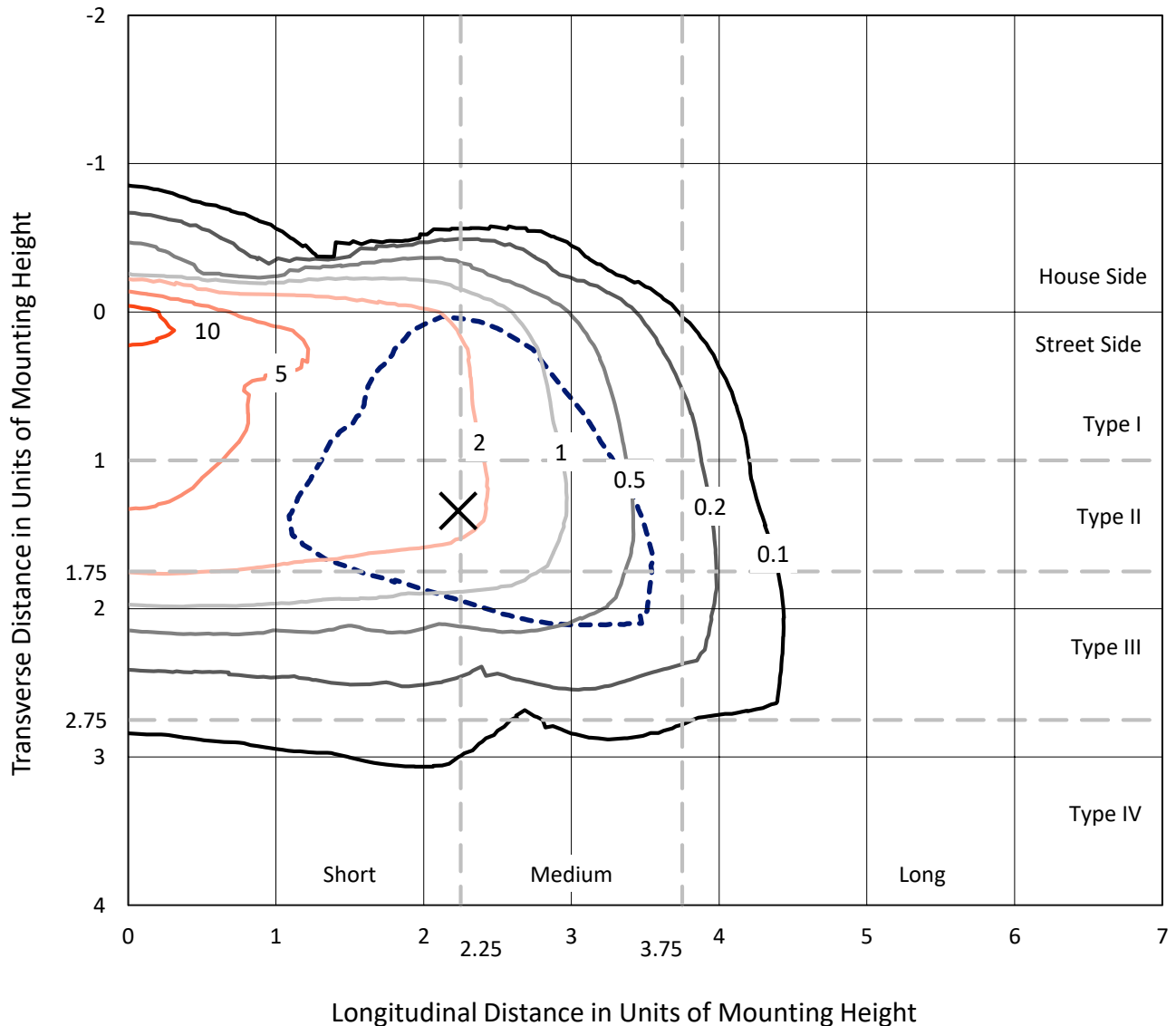
Input Watts (W): 391  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

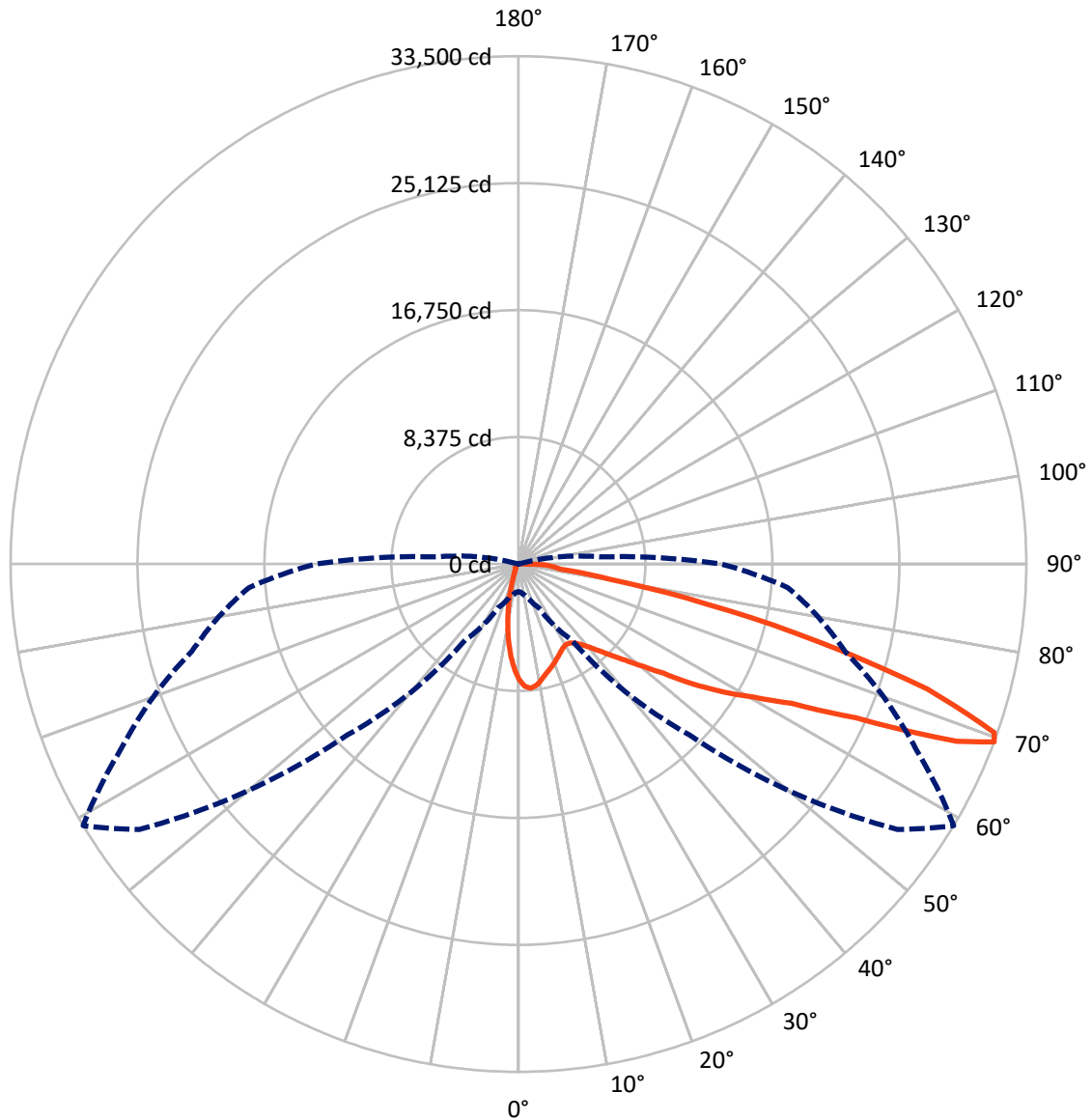
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2390.3   | 0.0    | 2390.3  |
|                    | % Fixture | 8.1      | 0.0    | 8.1     |
| <b>Street Side</b> | Lumens    | 26960.7  | 0.0    | 26960.7 |
|                    | % Fixture | 91.9     | 0.0    | 91.9    |
| <b>Total</b>       | Lumens    | 29351.0  | 0.0    | 29351.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 620.1   | 2.1       |
| 10°-20°   | 1281.3  | 4.4       |
| 20°-30°   | 1724.2  | 5.9       |
| 30°-40°   | 2503.4  | 8.5       |
| 40°-50°   | 4168.4  | 14.2      |
| 50°-60°   | 6502.6  | 22.2      |
| 60°-70°   | 8046.4  | 27.4      |
| 70°-80°   | 4077.9  | 13.9      |
| 80°-90°   | 426.7   | 1.5       |
| 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°    | 29351.0 | 100.0     |
| 0°-180°   | 29351.0 | 100.0     |



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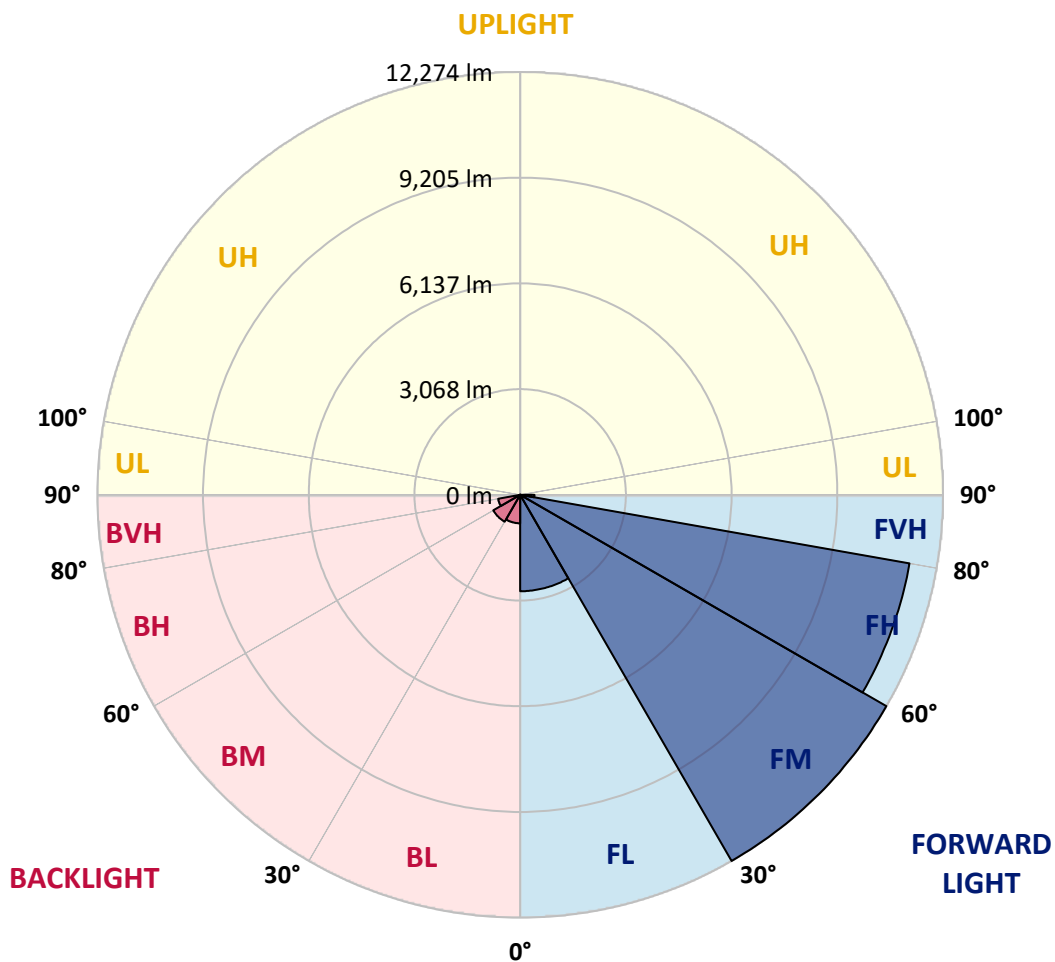
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2798.3  | 9.5       |                         |      |          |
| FM   | (30°-60°)   | 12273.7 | 41.8      |                         |      |          |
| FH   | (60°-80°)   | 11475.2 | 39.1      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 413.6   | 1.4       |                         |      | G3/500   |
| BL   | (0°-30°)    | 827.3   | 2.8       | B2/1000                 |      |          |
| BM   | (30°-60°)   | 900.6   | 3.1       | B1/1000                 |      |          |
| BH   | (60°-80°)   | 649.1   | 2.2       | B2/1000                 |      | G2/1000  |
| BVH  | (80°-90°)   | 13.1    | 0.0       |                         |      | G1/100   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B2-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 59°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7639.7  | 7639.7  | 7639.7  | 7639.7  | 7639.7  | 7639.7  | 7639.7  | 7639.7  | 7639.7  | 7639.7  | 7639.7  |
| 2.5°  | 8373.3  | 8369.9  | 8333.4  | 8316.8  | 8286.9  | 8223.9  | 8126.0  | 8074.5  | 7991.5  | 7847.1  | 7652.9  |
| 5°    | 8296.9  | 8336.7  | 8358.3  | 8360.0  | 8381.6  | 8358.3  | 8270.4  | 8227.2  | 8112.7  | 7880.3  | 7531.8  |
| 7.5°  | 7779.1  | 7794.0  | 7855.4  | 7908.5  | 8011.4  | 8109.4  | 8140.9  | 8122.6  | 8054.6  | 7805.6  | 7342.6  |
| 10°   | 7224.7  | 7239.7  | 7312.7  | 7382.4  | 7521.8  | 7672.9  | 7832.2  | 7865.4  | 7893.6  | 7699.4  | 7160.0  |
| 12.5° | 6746.7  | 6761.7  | 6836.4  | 6927.6  | 7090.3  | 7276.2  | 7523.5  | 7578.3  | 7702.7  | 7598.2  | 7013.9  |
| 15°   | 6335.1  | 6341.8  | 6414.8  | 6527.7  | 6721.8  | 6960.8  | 7241.3  | 7329.3  | 7520.2  | 7526.8  | 6886.1  |
| 17.5° | 5984.9  | 6001.5  | 6046.3  | 6154.2  | 6366.7  | 6662.1  | 6989.1  | 7115.2  | 7339.3  | 7467.0  | 6761.7  |
| 20°   | 5770.8  | 5787.4  | 5785.8  | 5845.5  | 6036.4  | 6351.7  | 6736.8  | 6887.8  | 7160.0  | 7405.6  | 6650.5  |
| 22.5° | 5729.3  | 5729.3  | 5686.2  | 5677.9  | 5790.7  | 6054.6  | 6474.5  | 6658.8  | 6999.0  | 7379.1  | 6572.5  |
| 25°   | 5877.0  | 5870.4  | 5762.5  | 5674.6  | 5679.5  | 5837.2  | 6220.6  | 6439.7  | 6862.9  | 7397.3  | 6531.0  |
| 27.5° | 6189.1  | 6180.8  | 6044.7  | 5877.0  | 5742.6  | 5740.9  | 6028.1  | 6263.8  | 6755.0  | 7483.6  | 6547.6  |
| 30°   | 6620.6  | 6617.3  | 6469.6  | 6258.8  | 6014.8  | 5790.7  | 5961.7  | 6175.8  | 6685.3  | 7639.7  | 6585.7  |
| 32.5° | 7092.0  | 7087.0  | 6975.8  | 6753.4  | 6444.7  | 6014.8  | 6031.4  | 6210.6  | 6705.2  | 7847.1  | 6678.7  |
| 35°   | 7591.5  | 7583.2  | 7535.1  | 7340.9  | 7000.7  | 6428.1  | 6260.4  | 6399.9  | 6831.4  | 8157.5  | 6861.3  |
| 37.5° | 8132.6  | 8140.9  | 8175.7  | 7989.9  | 7633.0  | 7007.3  | 6643.8  | 6738.4  | 7085.3  | 8579.1  | 7158.3  |
| 40°   | 8930.9  | 8929.3  | 8940.9  | 8696.9  | 8353.3  | 7716.0  | 7179.9  | 7209.8  | 7510.2  | 9138.4  | 7609.8  |
| 42.5° | 10379.8 | 10278.6 | 9971.6  | 9473.6  | 9128.4  | 8525.9  | 7855.4  | 7823.9  | 8029.7  | 9830.5  | 8242.1  |
| 45°   | 12326.7 | 12110.9 | 11314.3 | 10359.9 | 9918.4  | 9438.8  | 8686.9  | 8585.7  | 8716.8  | 10662.0 | 9022.2  |
| 47.5° | 14001.3 | 13777.3 | 12650.3 | 11282.7 | 10756.6 | 10305.2 | 9661.2  | 9478.6  | 9521.8  | 11593.1 | 10011.4 |
| 50°   | 14570.6 | 14461.1 | 13476.9 | 12086.0 | 11568.2 | 11395.6 | 10791.5 | 10569.1 | 10507.6 | 12670.2 | 11158.3 |
| 52.5° | 14373.1 | 14364.8 | 13709.2 | 12607.2 | 12311.8 | 12524.2 | 12213.8 | 11956.6 | 11730.9 | 13805.5 | 12325.0 |
| 55°   | 14056.1 | 14097.6 | 13803.8 | 13063.6 | 13053.6 | 13554.9 | 14159.0 | 13944.9 | 13291.0 | 15038.7 | 13330.8 |
| 57.5° | 13181.4 | 13359.0 | 13750.7 | 13926.7 | 14334.9 | 14847.8 | 15778.9 | 15905.0 | 15131.6 | 15983.0 | 14165.7 |
| 60°   | 10695.2 | 11085.2 | 12366.5 | 14051.1 | 15986.4 | 17264.3 | 17734.0 | 17841.9 | 16641.9 | 16768.1 | 15292.6 |
| 62.5° | 7591.5  | 7989.9  | 9614.7  | 12464.4 | 16011.3 | 20439.4 | 20646.8 | 20223.6 | 18305.0 | 17931.5 | 17236.1 |
| 65°   | 4029.8  | 4336.8  | 5664.6  | 8997.3  | 13881.8 | 21176.3 | 25740.5 | 24479.1 | 21239.3 | 20220.3 | 19747.3 |
| 67.5° | 2061.4  | 2154.3  | 2682.1  | 4403.2  | 9543.4  | 18809.5 | 30306.4 | 31194.3 | 26296.5 | 22490.8 | 19626.1 |
| 69°   | 1824.0  | 1878.8  | 2229.0  | 3183.3  | 6111.1  | 15931.6 | 30528.8 | 33499.6 | 28943.7 | 22301.6 | 17835.3 |
| 70°   | 1765.9  | 1814.1  | 2132.7  | 2881.3  | 4776.7  | 13360.7 | 29677.3 | 33297.2 | 29620.9 | 21581.2 | 16497.5 |
| 72.5° | 1498.7  | 1540.2  | 1898.7  | 2546.0  | 3882.1  | 6632.2  | 24107.3 | 28215.1 | 26580.3 | 17978.0 | 11941.6 |
| 75°   | 1002.5  | 1138.6  | 1822.4  | 2386.7  | 3611.5  | 3767.5  | 15893.4 | 20389.6 | 18940.6 | 12125.9 | 6220.6  |
| 77.5° | 240.7   | 258.9   | 514.5   | 1898.7  | 3302.8  | 3316.1  | 8174.1  | 12675.2 | 10338.4 | 4321.9  | 1470.5  |
| 80°   | 129.5   | 124.5   | 144.4   | 376.8   | 3075.4  | 3112.0  | 3679.6  | 6152.6  | 3691.2  | 717.0   | 484.6   |
| 82.5° | 91.3    | 86.3    | 92.9    | 157.7   | 967.6   | 2834.8  | 2662.2  | 2785.0  | 1530.3  | 275.5   | 217.4   |
| 85°   | 33.2    | 31.5    | 51.5    | 142.7   | 303.7   | 1629.8  | 2735.2  | 2297.0  | 1239.8  | 126.1   | 159.3   |
| 87.5° | 11.6    | 10.0    | 19.9    | 78.0    | 92.9    | 693.8   | 1687.9  | 1736.1  | 488.0   | 76.3    | 74.7    |
| 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°    | 7639.7  | 7639.7 | 7639.7 | 7639.7 | 7639.7 | 7639.7 | 7639.7 | 7639.7 | 7639.7 | 7639.7 | 7639.7 |
| 2.5°  | 7571.6  | 7468.7 | 7279.5 | 7085.3 | 6906.1 | 6690.3 | 6582.4 | 6476.2 | 6431.4 | 6414.8 | 6336.8 |
| 5°    | 7352.5  | 7178.3 | 6776.6 | 6373.3 | 6001.5 | 5606.5 | 5345.9 | 5136.8 | 5014.0 | 4954.2 | 4859.6 |
| 7.5°  | 7072.0  | 6786.6 | 6177.5 | 5555.1 | 4975.8 | 4404.9 | 3981.7 | 3656.3 | 3432.3 | 3324.4 | 3226.5 |
| 10°   | 6799.8  | 6419.8 | 5553.4 | 4705.3 | 3918.6 | 3161.8 | 2577.5 | 2154.3 | 1883.8 | 1759.3 | 1679.6 |
| 12.5° | 6555.9  | 6062.9 | 4950.9 | 3877.1 | 2889.6 | 2003.3 | 1409.1 | 1072.2 | 904.5  | 846.5  | 818.2  |
| 15°   | 6338.4  | 5734.3 | 4381.6 | 3090.4 | 1956.8 | 1145.2 | 770.1  | 655.6  | 629.0  | 629.0  | 625.7  |
| 17.5° | 6132.6  | 5412.3 | 3832.3 | 2351.8 | 1228.2 | 700.4  | 585.9  | 570.9  | 570.9  | 577.6  | 577.6  |
| 20°   | 5935.1  | 5105.3 | 3301.2 | 1687.9 | 773.4  | 556.0  | 529.4  | 526.1  | 529.4  | 537.7  | 537.7  |
| 22.5° | 5765.8  | 4826.4 | 2804.9 | 1158.5 | 574.3  | 501.2  | 488.0  | 483.0  | 484.6  | 489.6  | 492.9  |
| 25°   | 5639.7  | 4590.8 | 2336.9 | 785.0  | 494.6  | 456.4  | 441.5  | 433.2  | 426.5  | 426.5  | 429.9  |
| 27.5° | 5560.0  | 4391.6 | 1883.8 | 570.9  | 444.8  | 414.9  | 391.7  | 378.4  | 363.5  | 355.2  | 358.5  |
| 30°   | 5501.9  | 4202.4 | 1458.9 | 466.4  | 398.3  | 368.5  | 338.6  | 317.0  | 295.4  | 285.5  | 288.8  |
| 32.5° | 5480.4  | 4049.7 | 1090.4 | 411.6  | 356.8  | 323.6  | 287.1  | 258.9  | 235.7  | 227.4  | 229.0  |
| 35°   | 5538.5  | 3928.5 | 798.3  | 371.8  | 323.6  | 282.2  | 240.7  | 209.1  | 190.9  | 185.9  | 187.5  |
| 37.5° | 5691.2  | 3863.8 | 597.5  | 338.6  | 293.8  | 247.3  | 200.8  | 171.0  | 159.3  | 159.3  | 161.0  |
| 40°   | 5979.9  | 3862.2 | 479.7  | 315.3  | 267.2  | 214.1  | 166.0  | 144.4  | 137.8  | 141.1  | 142.7  |
| 42.5° | 6401.5  | 3950.1 | 418.2  | 293.8  | 244.0  | 182.6  | 137.8  | 122.8  | 121.2  | 124.5  | 126.1  |
| 45°   | 6977.4  | 4111.1 | 385.1  | 275.5  | 219.1  | 152.7  | 116.2  | 106.2  | 106.2  | 111.2  | 112.9  |
| 47.5° | 7682.8  | 4346.8 | 356.8  | 257.3  | 194.2  | 127.8  | 99.6   | 92.9   | 94.6   | 99.6   | 101.2  |
| 50°   | 8532.6  | 4643.9 | 328.6  | 237.3  | 175.9  | 106.2  | 86.3   | 81.3   | 83.0   | 89.6   | 91.3   |
| 52.5° | 9500.2  | 5043.9 | 305.4  | 219.1  | 152.7  | 88.0   | 73.0   | 69.7   | 73.0   | 79.7   | 81.3   |
| 55°   | 10330.1 | 5402.4 | 277.2  | 204.1  | 122.8  | 73.0   | 59.7   | 59.7   | 63.1   | 71.4   | 73.0   |
| 57.5° | 11128.4 | 5777.5 | 252.3  | 175.9  | 96.3   | 58.1   | 49.8   | 51.5   | 56.4   | 64.7   | 66.4   |
| 60°   | 12300.1 | 6413.1 | 222.4  | 147.7  | 73.0   | 46.5   | 41.5   | 43.2   | 49.8   | 58.1   | 59.7   |
| 62.5° | 14290.1 | 7380.7 | 192.5  | 122.8  | 56.4   | 36.5   | 33.2   | 36.5   | 44.8   | 54.8   | 56.4   |
| 65°   | 16085.9 | 7774.1 | 157.7  | 102.9  | 43.2   | 28.2   | 28.2   | 33.2   | 43.2   | 53.1   | 54.8   |
| 67.5° | 15085.1 | 6544.2 | 122.8  | 81.3   | 33.2   | 21.6   | 23.2   | 31.5   | 41.5   | 53.1   | 54.8   |
| 69°   | 13340.8 | 5350.9 | 104.6  | 64.7   | 28.2   | 19.9   | 21.6   | 31.5   | 41.5   | 51.5   | 53.1   |
| 70°   | 11981.5 | 4517.7 | 92.9   | 54.8   | 24.9   | 19.9   | 21.6   | 29.9   | 41.5   | 51.5   | 53.1   |
| 72.5° | 8024.7  | 2439.8 | 74.7   | 39.8   | 23.2   | 18.3   | 18.3   | 29.9   | 39.8   | 49.8   | 51.5   |
| 75°   | 3448.9  | 673.8  | 59.7   | 28.2   | 19.9   | 16.6   | 16.6   | 28.2   | 38.2   | 48.1   | 51.5   |
| 77.5° | 630.7   | 171.0  | 48.1   | 24.9   | 19.9   | 16.6   | 14.9   | 26.6   | 36.5   | 46.5   | 48.1   |
| 80°   | 250.6   | 84.6   | 38.2   | 21.6   | 18.3   | 14.9   | 13.3   | 24.9   | 34.9   | 44.8   | 46.5   |
| 82.5° | 151.0   | 48.1   | 31.5   | 19.9   | 18.3   | 13.3   | 11.6   | 21.6   | 33.2   | 43.2   | 44.8   |
| 85°   | 122.8   | 33.2   | 24.9   | 19.9   | 16.6   | 13.3   | 10.0   | 19.9   | 29.9   | 41.5   | 43.2   |
| 87.5° | 59.7    | 23.2   | 23.2   | 18.3   | 16.6   | 13.3   | 10.0   | 18.3   | 28.2   | 39.8   | 41.5   |
| 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)