

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: P383342

Luminaire Tested: **GLEON-SA6C-735-U-T2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383342  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA6C-735-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28034.9 lumens  
Efficiency: N/A  
Efficacy: 84.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4

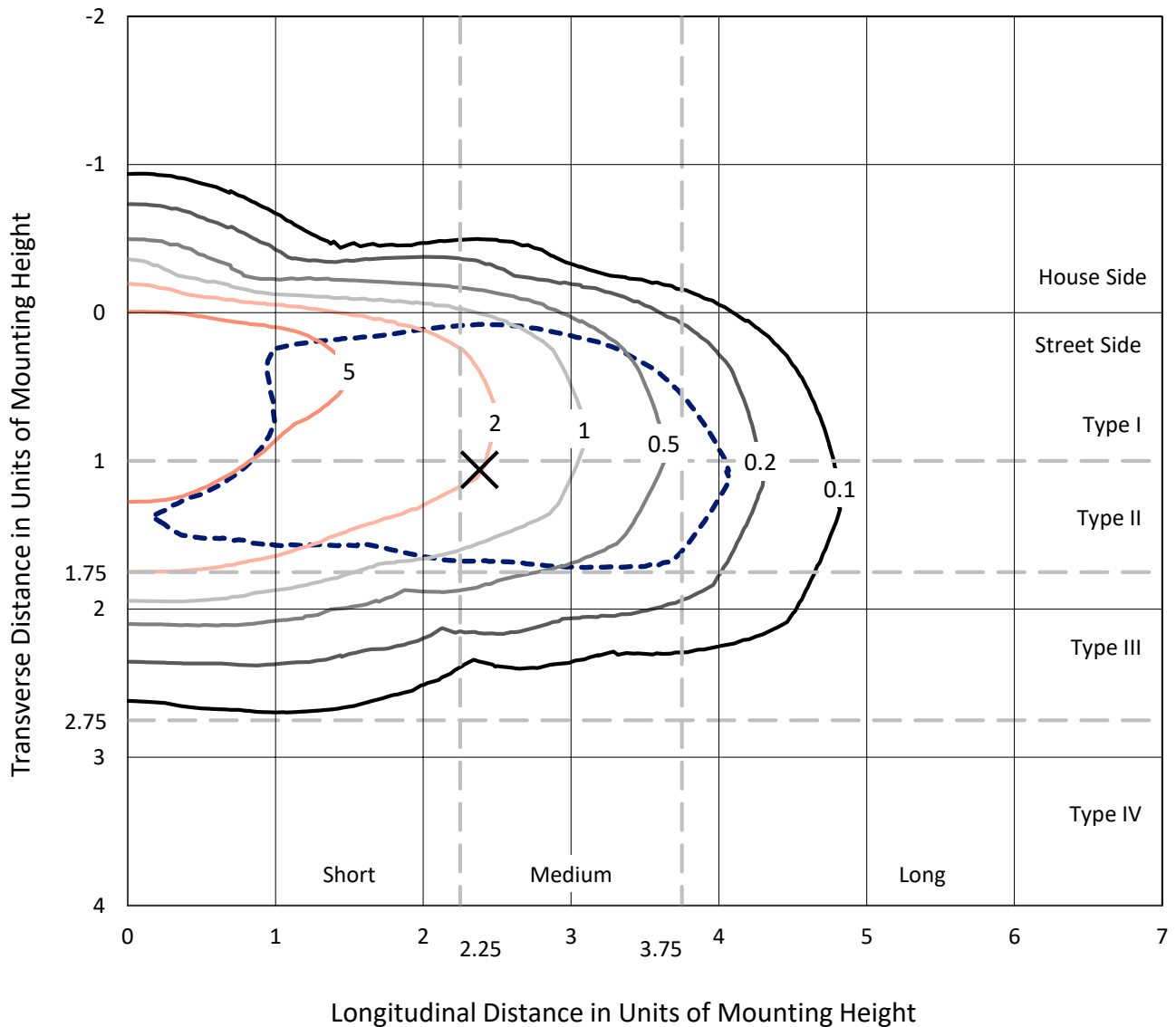
Input Watts (W): 333  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

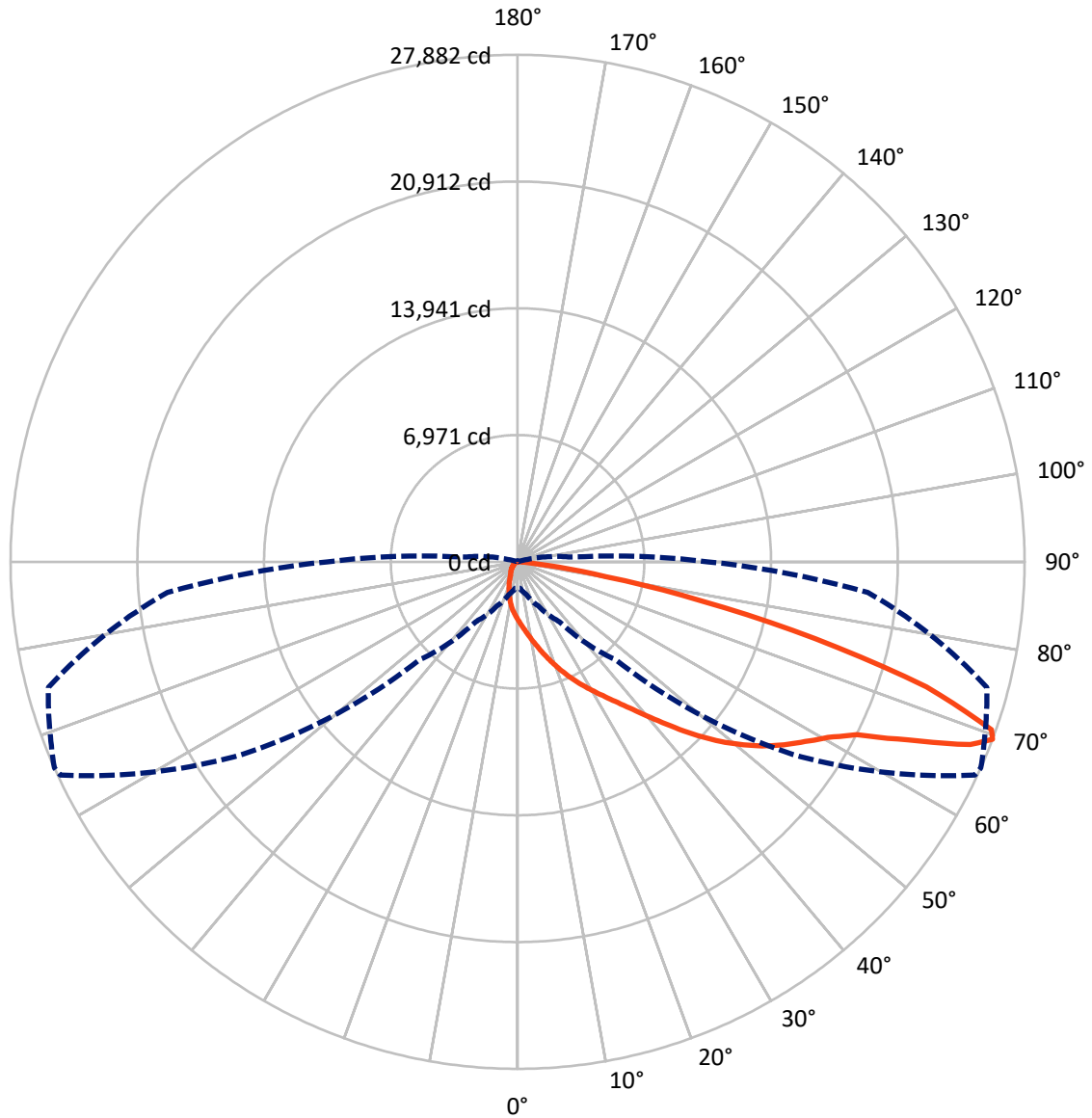
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1681.7   | 0.0    | 1681.7  |
|                    | % Fixture | 6.0      | 0.0    | 6.0     |
| <b>Street Side</b> | Lumens    | 26353.2  | 0.0    | 26353.2 |
|                    | % Fixture | 94.0     | 0.0    | 94.0    |
| <b>Total</b>       | Lumens    | 28034.9  | 0.0    | 28034.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 308.4   | 1.1       |
| 10°-20°   | 917.9   | 3.3       |
| 20°-30°   | 1598.3  | 5.7       |
| 30°-40°   | 2804.3  | 10.0      |
| 40°-50°   | 4693.9  | 16.7      |
| 50°-60°   | 6899.6  | 24.6      |
| 60°-70°   | 7084.1  | 25.3      |
| 70°-80°   | 3497.2  | 12.5      |
| 80°-90°   | 231.2   | 0.8       |
| 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°    | 28034.9 | 100.0     |
| 0°-180°   | 28034.9 | 100.0     |

**Coefficient of Utilization**

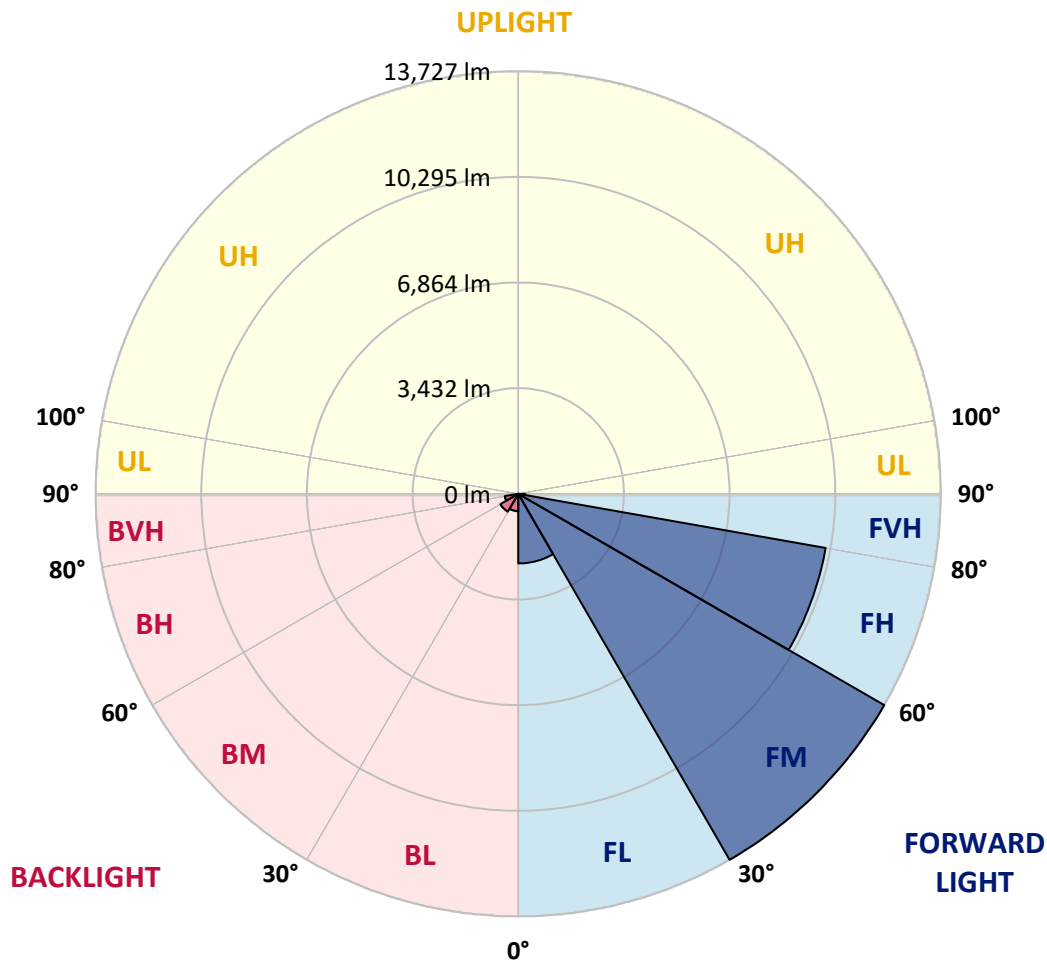


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 2262.2  | 8.1       |                         |      |          |
| FM (30°-60°)   | 13727.2 | 49.0      |                         |      |          |
| FH (60°-80°)   | 10138.2 | 36.2      |                         |      | G4/12000 |
| FVH (80°-90°)  | 225.7   | 0.8       |                         |      | G3/500   |
| BL (0°-30°)    | 562.4   | 2.0       | B2/1000                 |      |          |
| BM (30°-60°)   | 670.5   | 2.4       | B1/1000                 |      |          |
| BH (60°-80°)   | 443.2   | 1.6       | B1/500                  |      | G1/500   |
| BVH (80°-90°)  | 5.6     | 0.0       |                         |      | G0/10    |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B2-U0-G4**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 66°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3190.5  | 3190.5  | 3190.5  | 3190.5  | 3190.5  | 3190.5  | 3190.5  | 3190.5  | 3190.5  | 3190.5  | 3190.5  |
| 2.5°  | 3755.1  | 3739.0  | 3732.4  | 3703.1  | 3652.5  | 3613.9  | 3539.3  | 3452.8  | 3436.9  | 3352.9  | 3250.4  |
| 5°    | 4242.5  | 4229.1  | 4219.8  | 4178.5  | 4126.6  | 4029.3  | 3893.5  | 3732.4  | 3701.8  | 3542.0  | 3336.9  |
| 7.5°  | 4582.0  | 4605.9  | 4605.9  | 4579.3  | 4514.1  | 4440.8  | 4274.4  | 4054.7  | 4016.1  | 3771.0  | 3452.8  |
| 10°   | 4780.3  | 4809.7  | 4832.3  | 4854.9  | 4845.6  | 4816.3  | 4659.2  | 4411.5  | 4365.0  | 4040.0  | 3587.3  |
| 12.5° | 4799.1  | 4828.3  | 4892.2  | 4986.8  | 5078.6  | 5145.2  | 5046.7  | 4807.0  | 4753.8  | 4351.6  | 3747.1  |
| 15°   | 4695.2  | 4725.7  | 4824.3  | 5008.1  | 5230.5  | 5424.9  | 5456.8  | 5245.1  | 5190.5  | 4723.1  | 3946.8  |
| 17.5° | 4514.1  | 4534.0  | 4675.2  | 4929.5  | 5278.3  | 5635.2  | 5828.3  | 5715.1  | 5664.6  | 5147.9  | 4169.1  |
| 20°   | 4379.6  | 4394.2  | 4518.0  | 4791.0  | 5249.1  | 5767.0  | 6179.9  | 6214.4  | 6161.3  | 5603.3  | 4410.2  |
| 22.5° | 4609.9  | 4636.6  | 4640.6  | 4769.7  | 5169.2  | 5832.3  | 6488.8  | 6705.8  | 6665.9  | 6086.6  | 4647.2  |
| 25°   | 5239.8  | 5270.4  | 5169.2  | 5089.3  | 5237.1  | 5861.6  | 6753.8  | 7209.2  | 7177.2  | 6607.3  | 4885.6  |
| 27.5° | 6072.0  | 6104.0  | 5973.5  | 5735.1  | 5592.6  | 5972.2  | 6989.5  | 7720.5  | 7719.2  | 7158.6  | 5142.5  |
| 30°   | 6889.6  | 6921.6  | 6788.4  | 6550.1  | 6222.5  | 6285.1  | 7193.2  | 8255.7  | 8263.8  | 7727.2  | 5415.6  |
| 32.5° | 7747.1  | 7787.1  | 7650.0  | 7343.7  | 7001.4  | 6825.6  | 7479.5  | 8793.7  | 8839.0  | 8386.3  | 5723.1  |
| 35°   | 8721.8  | 8727.2  | 8534.1  | 8213.2  | 7819.0  | 7548.7  | 7938.8  | 9397.0  | 9504.9  | 9202.6  | 6113.3  |
| 37.5° | 9677.9  | 9716.5  | 9558.1  | 9052.0  | 8689.8  | 8383.6  | 8621.9  | 10150.6 | 10303.8 | 10199.9 | 6623.3  |
| 40°   | 10386.3 | 10467.5 | 10444.9 | 9899.0  | 9555.4  | 9337.0  | 9470.2  | 11046.8 | 11241.2 | 11361.1 | 7266.4  |
| 42.5° | 10831.1 | 10892.3 | 10996.2 | 10667.2 | 10355.7 | 10391.7 | 10471.5 | 12090.7 | 12330.4 | 12684.6 | 8005.4  |
| 45°   | 11341.0 | 11370.4 | 11456.9 | 11311.8 | 11101.3 | 11463.5 | 11534.1 | 13266.5 | 13518.2 | 14108.1 | 8825.7  |
| 47.5° | 11964.2 | 12033.5 | 12057.5 | 11924.3 | 11828.4 | 12411.7 | 12558.1 | 14335.8 | 14688.6 | 15632.8 | 9693.9  |
| 50°   | 12757.8 | 12776.5 | 12817.8 | 12731.3 | 12635.3 | 13226.6 | 13476.9 | 15458.3 | 15779.2 | 17162.7 | 10550.1 |
| 52.5° | 13534.2 | 13600.8 | 13744.5 | 13689.9 | 13651.4 | 13920.3 | 14295.8 | 16470.3 | 16828.5 | 18438.4 | 11404.9 |
| 55°   | 13757.8 | 13815.1 | 14311.8 | 14651.4 | 14965.6 | 14775.2 | 15078.8 | 17377.1 | 17764.6 | 19578.2 | 12227.9 |
| 57.5° | 12864.4 | 12980.3 | 13840.5 | 14724.6 | 16028.2 | 16104.1 | 16154.7 | 18307.9 | 18655.5 | 20451.8 | 13084.1 |
| 60°   | 10606.0 | 10628.7 | 12040.2 | 13556.8 | 15852.4 | 17263.9 | 17726.0 | 19307.9 | 19599.5 | 21265.4 | 14109.4 |
| 62.5° | 6745.8  | 6976.2  | 8524.8  | 10665.9 | 13993.6 | 17096.1 | 19626.1 | 20820.6 | 20927.1 | 22241.4 | 15579.5 |
| 65°   | 3213.1  | 3362.2  | 4478.1  | 6590.0  | 10136.0 | 14948.3 | 20937.7 | 23557.0 | 23605.0 | 24176.2 | 17543.6 |
| 67.5° | 1779.0  | 1850.9  | 2382.2  | 3547.3  | 5925.6  | 10571.4 | 20407.8 | 26798.0 | 26843.3 | 26152.3 | 19266.6 |
| 69°   | 1391.5  | 1452.7  | 1870.8  | 2673.8  | 4017.4  | 7598.0  | 18467.7 | 27747.4 | 27882.0 | 26718.2 | 19327.8 |
| 70°   | 1181.1  | 1241.0  | 1611.2  | 2258.4  | 3230.4  | 5870.9  | 16438.4 | 27511.8 | 27654.2 | 26664.9 | 18871.1 |
| 72.5° | 723.1   | 757.6   | 1073.2  | 1589.9  | 2165.1  | 2953.5  | 10137.3 | 23266.7 | 23507.7 | 24459.7 | 16218.6 |
| 75°   | 487.4   | 506.0   | 671.1   | 1097.2  | 1548.6  | 1520.7  | 5266.4  | 16399.7 | 16921.7 | 19027.0 | 11978.9 |
| 77.5° | 348.9   | 366.2   | 450.0   | 709.7   | 1085.3  | 1004.0  | 2384.9  | 10191.9 | 10303.8 | 11411.6 | 6532.8  |
| 80°   | 198.4   | 214.3   | 318.2   | 422.1   | 736.4   | 669.8   | 948.1   | 4868.3  | 4924.2  | 4893.5  | 2181.1  |
| 82.5° | 103.9   | 117.2   | 174.5   | 278.3   | 472.7   | 438.1   | 394.1   | 1629.8  | 1637.8  | 1362.2  | 478.1   |
| 85°   | 19.9    | 23.9    | 86.5    | 190.4   | 243.7   | 190.4   | 161.2   | 382.1   | 390.1   | 344.9   | 118.5   |
| 87.5° | 0.0     | 1.3     | 34.7    | 42.6    | 48.0    | 49.3    | 51.9    | 74.5    | 79.9    | 107.9   | 32.0    |
| 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°    | 3190.5  | 3190.5 | 3190.5 | 3190.5 | 3190.5 | 3190.5 | 3190.5 | 3190.5 | 3190.5 | 3190.5 | 3190.5 |
| 2.5°  | 3205.1  | 3157.2 | 3065.3 | 2958.8 | 2876.2 | 2795.0 | 2731.1 | 2664.5 | 2640.6 | 2628.5 | 2627.2 |
| 5°    | 3237.0  | 3135.9 | 2941.5 | 2741.7 | 2578.0 | 2423.5 | 2312.9 | 2207.8 | 2158.5 | 2135.9 | 2126.5 |
| 7.5°  | 3290.3  | 3127.9 | 2815.0 | 2510.1 | 2274.4 | 2081.3 | 1928.1 | 1813.6 | 1756.3 | 1732.4 | 1723.1 |
| 10°   | 3352.9  | 3117.2 | 2667.1 | 2265.1 | 1964.1 | 1764.4 | 1612.5 | 1499.3 | 1436.8 | 1410.2 | 1396.9 |
| 12.5° | 3426.1  | 3098.6 | 2496.7 | 2017.4 | 1699.0 | 1499.3 | 1315.6 | 1175.8 | 1103.9 | 1073.2 | 1058.6 |
| 15°   | 3516.7  | 3080.0 | 2318.2 | 1784.3 | 1466.1 | 1222.4 | 1021.3 | 926.8  | 912.2  | 906.8  | 908.2  |
| 17.5° | 3605.9  | 3050.6 | 2123.8 | 1553.9 | 1221.1 | 954.7  | 852.2  | 846.9  | 849.6  | 849.6  | 849.6  |
| 20°   | 3685.9  | 2984.0 | 1912.2 | 1356.9 | 988.0  | 805.6  | 784.3  | 775.0  | 768.3  | 763.0  | 756.3  |
| 22.5° | 3748.4  | 2894.9 | 1708.5 | 1161.2 | 806.9  | 737.7  | 704.4  | 675.1  | 651.2  | 635.1  | 627.2  |
| 25°   | 3791.0  | 2776.4 | 1522.0 | 973.4  | 725.7  | 671.1  | 611.2  | 561.9  | 524.6  | 502.0  | 492.7  |
| 27.5° | 3823.0  | 2648.5 | 1355.6 | 814.9  | 669.8  | 593.9  | 515.3  | 456.7  | 418.1  | 398.1  | 390.1  |
| 30°   | 3845.6  | 2503.3 | 1209.1 | 716.4  | 607.2  | 512.6  | 428.8  | 371.5  | 343.6  | 332.9  | 327.5  |
| 32.5° | 3866.9  | 2342.3 | 1070.6 | 669.8  | 548.6  | 438.1  | 359.5  | 315.6  | 298.3  | 285.0  | 281.0  |
| 35°   | 3920.1  | 2193.1 | 938.7  | 620.5  | 488.7  | 374.2  | 308.9  | 276.9  | 259.6  | 251.7  | 249.0  |
| 37.5° | 4046.6  | 2082.6 | 812.3  | 569.9  | 428.8  | 323.6  | 270.3  | 247.7  | 231.7  | 223.7  | 221.1  |
| 40°   | 4250.4  | 2026.7 | 705.7  | 515.3  | 370.2  | 285.0  | 245.0  | 223.7  | 206.4  | 194.4  | 191.7  |
| 42.5° | 4550.1  | 2034.7 | 631.1  | 460.7  | 323.6  | 254.3  | 221.1  | 195.7  | 177.1  | 166.5  | 163.8  |
| 45°   | 4913.5  | 2093.3 | 579.2  | 407.5  | 285.0  | 230.4  | 194.4  | 167.8  | 150.4  | 141.1  | 138.5  |
| 47.5° | 5307.7  | 2187.7 | 536.7  | 359.5  | 254.3  | 207.7  | 167.8  | 139.8  | 125.2  | 117.2  | 115.9  |
| 50°   | 5723.1  | 2279.7 | 492.7  | 312.9  | 227.7  | 185.1  | 141.1  | 115.9  | 103.9  | 97.2   | 94.6   |
| 52.5° | 6143.9  | 2386.2 | 452.7  | 270.3  | 205.0  | 158.5  | 117.2  | 94.6   | 85.2   | 79.9   | 77.2   |
| 55°   | 6596.7  | 2466.1 | 414.2  | 237.0  | 182.4  | 134.5  | 97.2   | 78.5   | 70.6   | 63.9   | 62.6   |
| 57.5° | 7129.3  | 2589.9 | 374.2  | 205.0  | 155.8  | 111.9  | 79.9   | 62.6   | 55.9   | 49.3   | 48.0   |
| 60°   | 7848.3  | 2735.0 | 331.5  | 181.1  | 127.8  | 91.9   | 65.2   | 50.6   | 42.6   | 37.3   | 36.0   |
| 62.5° | 8796.4  | 2896.2 | 278.3  | 158.5  | 103.9  | 74.5   | 51.9   | 40.0   | 30.6   | 23.9   | 23.9   |
| 65°   | 9998.9  | 3158.5 | 227.7  | 133.1  | 85.2   | 61.3   | 40.0   | 29.3   | 17.3   | 10.6   | 10.6   |
| 67.5° | 10700.6 | 3203.8 | 183.8  | 109.2  | 69.2   | 51.9   | 33.3   | 19.9   | 5.3    | 1.3    | 0.0    |
| 69°   | 10475.5 | 2941.5 | 155.8  | 93.2   | 59.9   | 49.3   | 30.6   | 14.6   | 2.7    | 0.0    | 0.0    |
| 70°   | 10052.1 | 2689.8 | 137.1  | 82.5   | 54.6   | 46.6   | 29.3   | 10.6   | 2.7    | 0.0    | 0.0    |
| 72.5° | 8306.4  | 1914.8 | 103.9  | 61.3   | 40.0   | 41.3   | 26.6   | 6.6    | 2.7    | 0.0    | 0.0    |
| 75°   | 6050.7  | 1163.8 | 74.5   | 42.6   | 25.3   | 30.6   | 18.6   | 2.7    | 1.3    | 0.0    | 0.0    |
| 77.5° | 3366.2  | 548.6  | 46.6   | 23.9   | 16.0   | 18.6   | 9.3    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 1093.3  | 149.1  | 21.3   | 13.3   | 9.3    | 10.6   | 4.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 202.4   | 42.6   | 12.0   | 6.6    | 2.7    | 2.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 44.0    | 17.3   | 6.6    | 2.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 14.6    | 5.3    | 1.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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)