

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: P383372

Luminaire Tested: **GLEON-SA6D-735-U-T2R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383372  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA6D-735-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34895.8 lumens  
Efficiency: N/A  
Efficacy: 91.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4

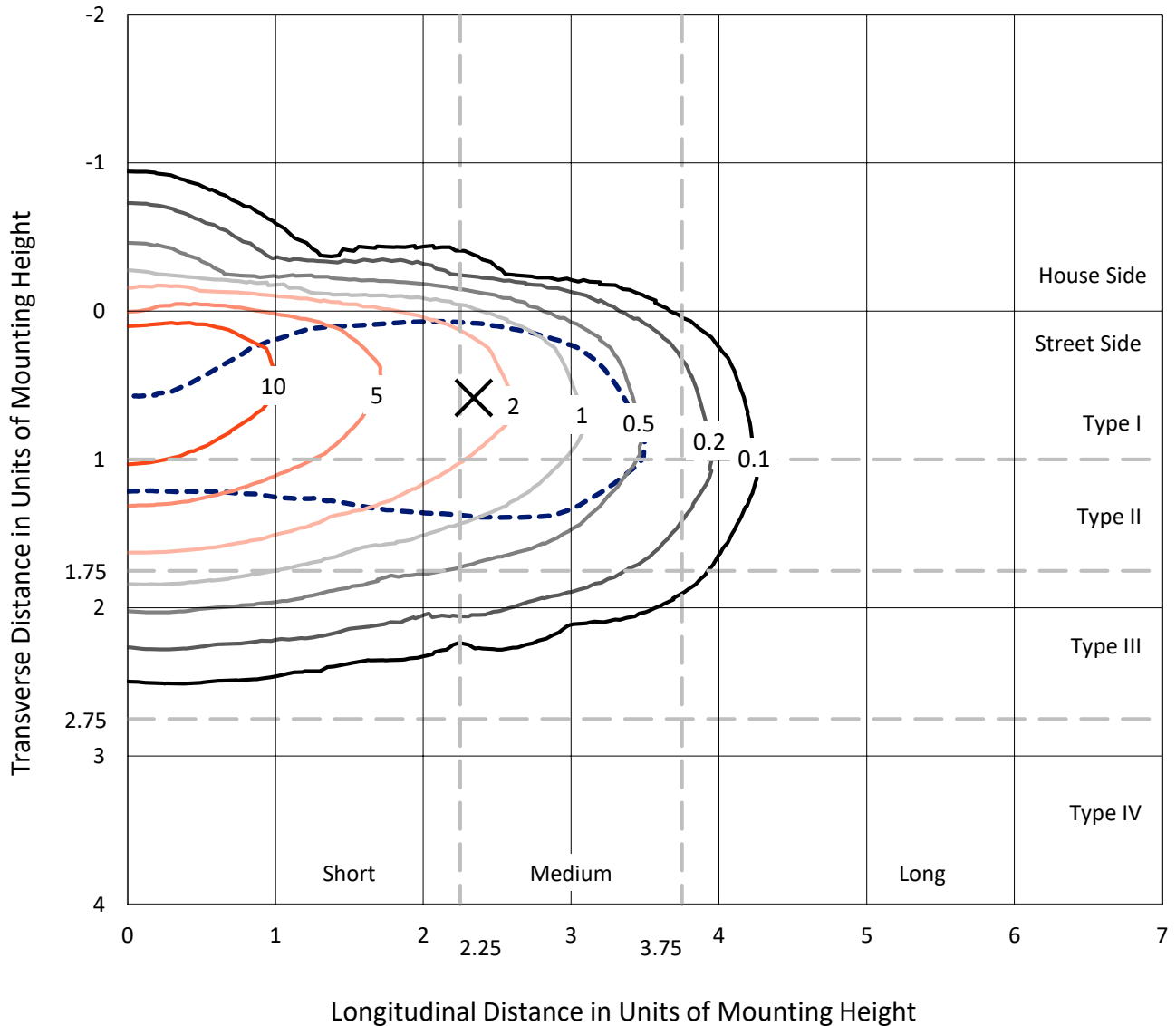
Input Watts (W): 382  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

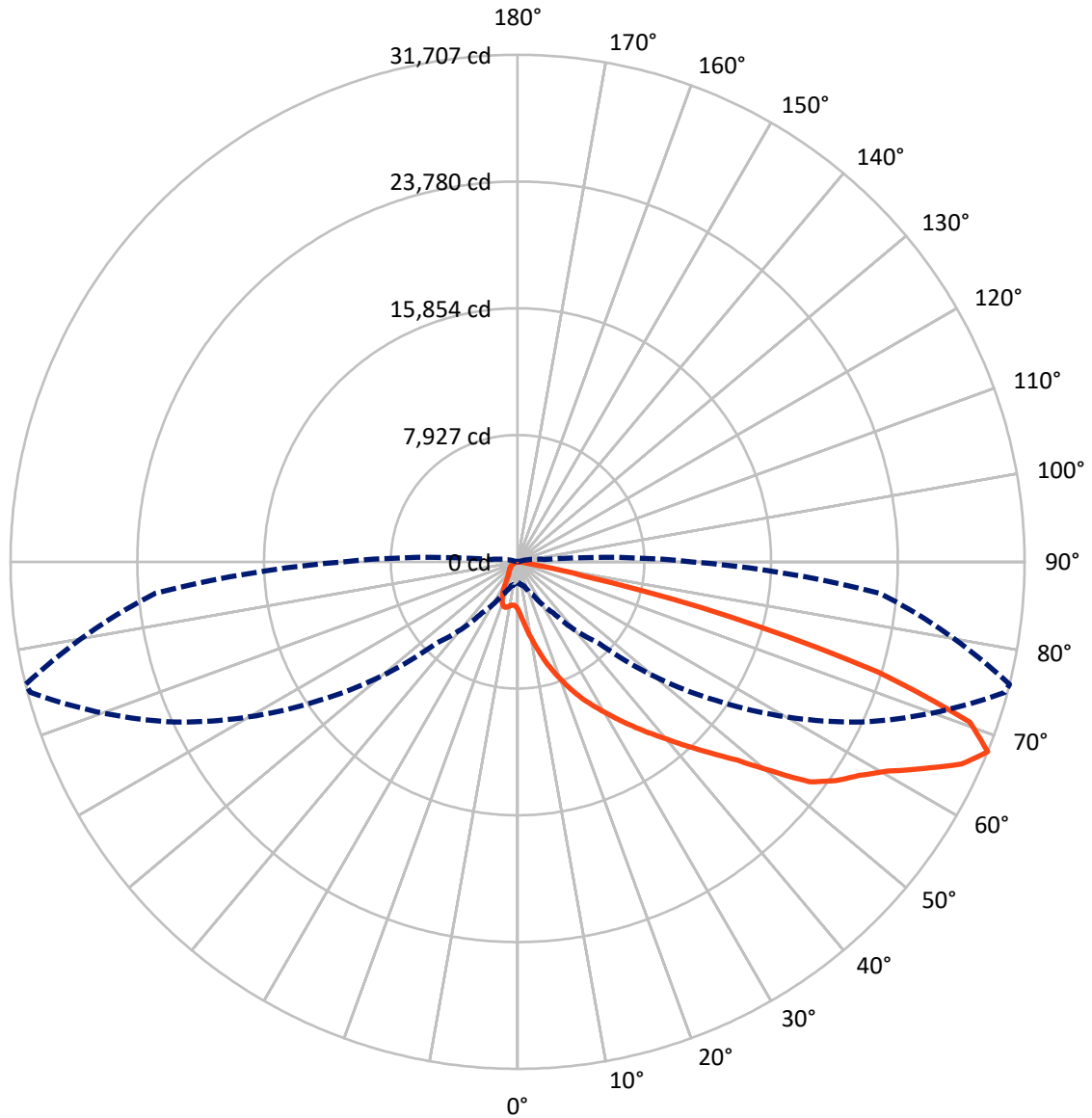
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.7 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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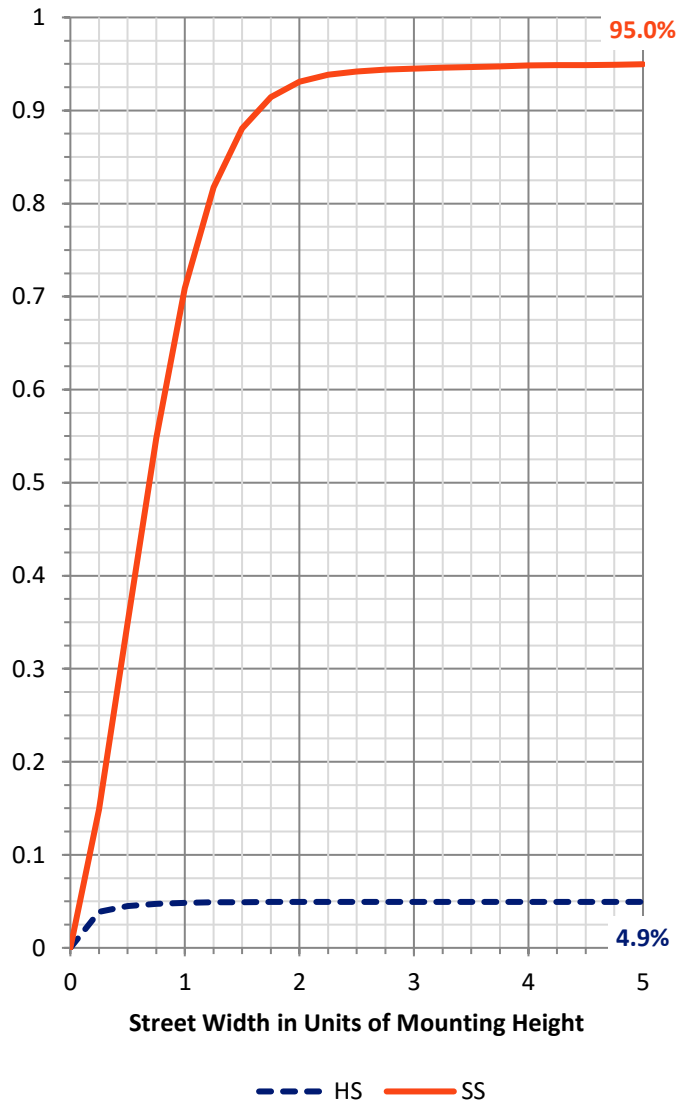
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1732.8   | 0.0    | 1732.8  |
|                    | % Fixture | 5.0      | 0.0    | 5.0     |
| <b>Street Side</b> | Lumens    | 33163.0  | 0.0    | 33163.0 |
|                    | % Fixture | 95.0     | 0.0    | 95.0    |
| <b>Total</b>       | Lumens    | 34895.8  | 0.0    | 34895.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 368.1   | 1.1       |
| 10°-20°   | 1459.2  | 4.2       |
| 20°-30°   | 2968.9  | 8.5       |
| 30°-40°   | 5153.1  | 14.8      |
| 40°-50°   | 7280.7  | 20.9      |
| 50°-60°   | 8256.7  | 23.7      |
| 60°-70°   | 6848.1  | 19.6      |
| 70°-80°   | 2480.6  | 7.1       |
| 80°-90°   | 80.4    | 0.2       |
| 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°    | 34895.8 | 100.0     |
| 0°-180°   | 34895.8 | 100.0     |

**Coefficient of Utilization**

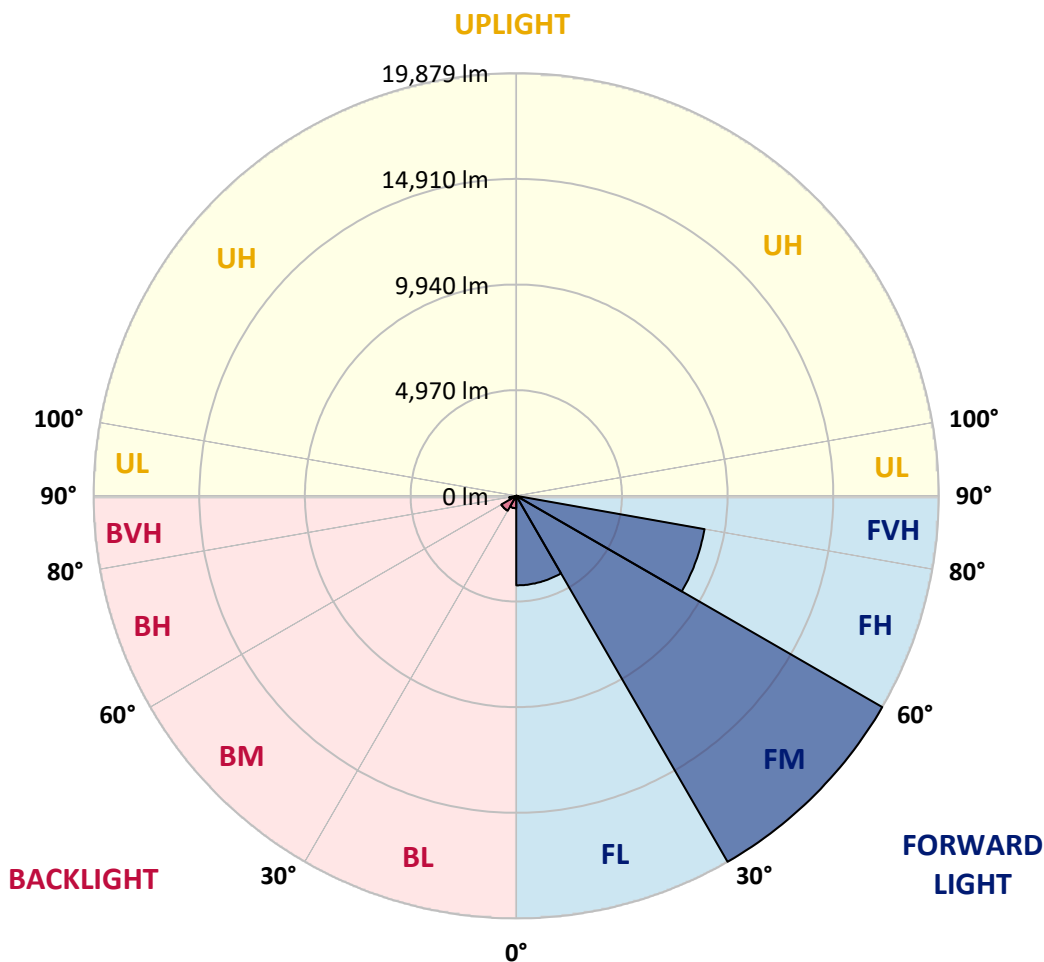


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 4211.8  | 12.1      |                         |      |          |
| FM (30°-60°)   | 19879.4 | 57.0      |                         |      |          |
| FH (60°-80°)   | 8993.8  | 25.8      |                         |      | G4/12000 |
| FVH (80°-90°)  | 77.9    | 0.2       |                         |      | G1/100   |
| BL (0°-30°)    | 584.4   | 1.7       | B2/1000                 |      |          |
| BM (30°-60°)   | 811.0   | 2.3       | B1/1000                 |      |          |
| BH (60°-80°)   | 334.9   | 1.0       | B1/500                  |      | G1/500   |
| BVH (80°-90°)  | 2.5     | 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°     | 75°     | 76°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2960.2  | 2960.2  | 2960.2  | 2960.2  | 2960.2  | 2960.2  | 2960.2  | 2960.2  | 2960.2  | 2960.2  | 2960.2  |
| 2.5°  | 4418.9  | 4319.5  | 4342.4  | 4278.2  | 4162.0  | 3923.5  | 3720.1  | 3527.4  | 3302.7  | 3295.1  | 3110.0  |
| 5°    | 5958.6  | 5874.4  | 5863.8  | 5733.8  | 5522.8  | 5117.6  | 4723.1  | 4273.6  | 3772.1  | 3735.4  | 3342.4  |
| 7.5°  | 7356.1  | 7288.8  | 7264.4  | 7109.9  | 6716.9  | 6322.5  | 5808.8  | 5148.2  | 4363.8  | 4296.6  | 3655.9  |
| 10°   | 8429.5  | 8397.3  | 8403.5  | 8293.4  | 7957.0  | 7590.1  | 6915.7  | 6073.2  | 5035.0  | 4931.1  | 4032.0  |
| 12.5° | 9242.9  | 9250.5  | 9305.6  | 9238.3  | 9050.3  | 8778.1  | 8057.9  | 7059.5  | 5778.1  | 5636.0  | 4461.6  |
| 15°   | 9840.8  | 9879.0  | 9979.9  | 10064.0 | 10050.2 | 9814.8  | 9154.2  | 8061.0  | 6567.1  | 6409.6  | 4940.3  |
| 17.5° | 10227.6 | 10270.4 | 10417.2 | 10603.7 | 10774.9 | 10719.9 | 10212.3 | 9027.3  | 7365.3  | 7183.3  | 5452.4  |
| 20°   | 10567.0 | 10617.5 | 10774.9 | 11021.1 | 11340.7 | 11409.5 | 11076.2 | 9964.6  | 8161.8  | 7940.1  | 5981.5  |
| 22.5° | 11302.5 | 11301.0 | 11397.3 | 11541.0 | 11845.3 | 12022.6 | 11811.7 | 10834.6 | 8949.3  | 8718.4  | 6521.2  |
| 25°   | 12632.7 | 12582.2 | 12548.6 | 12435.5 | 12502.8 | 12612.9 | 12495.1 | 11648.1 | 9741.4  | 9507.4  | 7068.7  |
| 27.5° | 14213.7 | 14244.3 | 13972.1 | 13667.9 | 13432.4 | 13319.3 | 13126.6 | 12401.9 | 10502.8 | 10245.9 | 7603.8  |
| 30°   | 15881.9 | 15891.1 | 15570.0 | 15181.6 | 14663.2 | 14233.6 | 13900.3 | 13122.0 | 11285.7 | 11005.9 | 8123.7  |
| 32.5° | 17386.4 | 17326.8 | 17008.8 | 16479.7 | 15825.3 | 15342.1 | 14649.5 | 13926.3 | 12114.4 | 11843.8 | 8701.6  |
| 35°   | 18579.1 | 18508.7 | 18121.9 | 17640.3 | 16961.3 | 16475.2 | 15641.8 | 14729.0 | 12986.0 | 12721.4 | 9281.1  |
| 37.5° | 19450.6 | 19368.0 | 18970.5 | 18475.1 | 17889.4 | 17606.6 | 16793.2 | 15602.0 | 13937.0 | 13652.6 | 9891.2  |
| 40°   | 19753.4 | 19681.5 | 19432.3 | 19069.9 | 18598.9 | 18534.7 | 18014.8 | 16606.6 | 14972.1 | 14669.4 | 10582.3 |
| 42.5° | 19572.9 | 19502.6 | 19413.9 | 19291.6 | 19095.9 | 19157.0 | 19167.7 | 17751.9 | 16121.9 | 15823.7 | 11345.3 |
| 45°   | 18857.3 | 18794.6 | 18886.4 | 19065.2 | 19308.4 | 19611.1 | 20219.7 | 18982.7 | 17406.3 | 17088.3 | 12227.5 |
| 47.5° | 17803.8 | 17758.0 | 18011.8 | 18458.2 | 19169.3 | 20004.1 | 21181.4 | 20276.3 | 18848.2 | 18553.1 | 13328.4 |
| 50°   | 16305.4 | 16297.8 | 16805.4 | 17620.4 | 18713.6 | 20193.7 | 22175.3 | 21747.2 | 20851.2 | 20540.8 | 14858.9 |
| 52.5° | 13972.1 | 13987.5 | 14985.9 | 16290.2 | 17913.9 | 20065.3 | 22814.4 | 23637.0 | 23181.4 | 22858.8 | 16184.6 |
| 55°   | 11750.4 | 11842.2 | 12550.2 | 14430.9 | 16687.7 | 19588.2 | 23034.6 | 24519.3 | 24467.3 | 24161.5 | 16921.6 |
| 57.5° | 9574.7  | 9741.4  | 10423.3 | 12180.2 | 14897.2 | 18488.8 | 22913.8 | 24901.6 | 25424.4 | 25190.5 | 17894.1 |
| 60°   | 7217.0  | 7293.4  | 8079.3  | 9721.4  | 12599.1 | 16482.8 | 22037.7 | 25109.5 | 26733.3 | 26571.2 | 19305.3 |
| 62.5° | 4591.6  | 4782.8  | 5480.0  | 7064.0  | 9810.1  | 13696.9 | 20560.7 | 25106.4 | 28370.8 | 28459.5 | 21126.4 |
| 65°   | 2418.9  | 2642.1  | 3012.2  | 4377.5  | 6741.4  | 10585.4 | 18339.0 | 24870.9 | 30380.0 | 30503.8 | 22549.9 |
| 67.5° | 1304.3  | 1368.4  | 1564.2  | 2272.1  | 3909.7  | 7171.1  | 15074.6 | 23708.9 | 31543.6 | 31707.2 | 22748.7 |
| 70°   | 954.1   | 989.3   | 1062.7  | 1256.8  | 1967.8  | 4165.0  | 10999.7 | 21074.4 | 30043.6 | 29982.4 | 20212.1 |
| 72.5° | 732.4   | 787.4   | 842.5   | 920.5   | 1131.5  | 2223.2  | 6848.5  | 16502.6 | 23971.9 | 23568.2 | 15108.2 |
| 75°   | 577.9   | 587.2   | 665.1   | 735.5   | 848.6   | 1266.1  | 3041.2  | 9611.4  | 14631.2 | 13675.5 | 7834.7  |
| 77.5° | 461.8   | 467.9   | 513.7   | 575.0   | 682.0   | 831.8   | 941.9   | 3781.2  | 4671.2  | 4168.1  | 1700.3  |
| 80°   | 273.7   | 289.0   | 382.2   | 443.4   | 565.7   | 524.5   | 344.0   | 821.1   | 729.3   | 660.6   | 285.9   |
| 82.5° | 152.9   | 165.2   | 215.6   | 350.2   | 394.5   | 250.8   | 171.2   | 221.7   | 171.2   | 166.7   | 81.0    |
| 85°   | 0.0     | 7.6     | 139.2   | 217.1   | 160.5   | 55.1    | 71.8    | 73.4    | 50.5    | 47.4    | 32.1    |
| 87.5° | 0.0     | 0.0     | 42.9    | 41.3    | 6.1     | 9.1     | 16.9    | 24.5    | 19.8    | 19.8    | 16.9    |
| 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°    | 2960.2  | 2960.2 | 2960.2 | 2960.2 | 2960.2 | 2960.2 | 2960.2 | 2960.2 | 2960.2 | 2960.2 | 2960.2 |
| 2.5°  | 3018.3  | 2935.7 | 2779.7 | 2626.9 | 2498.4 | 2392.9 | 2298.1 | 2259.8 | 2229.3 | 2224.7 | 2200.2 |
| 5°    | 3152.8  | 2986.2 | 2688.0 | 2443.4 | 2279.8 | 2163.5 | 2064.1 | 2003.0 | 1955.6 | 1937.2 | 1920.5 |
| 7.5°  | 3356.2  | 3103.9 | 2675.8 | 2394.4 | 2198.7 | 2003.0 | 1819.5 | 1620.8 | 1496.9 | 1449.5 | 1422.0 |
| 10°   | 3603.9  | 3259.9 | 2721.6 | 2380.7 | 2038.1 | 1625.4 | 1321.0 | 1068.8 | 966.3  | 932.7  | 923.5  |
| 12.5° | 3892.8  | 3454.1 | 2801.2 | 2295.1 | 1695.7 | 1154.4 | 911.3  | 825.6  | 802.7  | 792.0  | 792.0  |
| 15°   | 4224.7  | 3666.6 | 2857.7 | 2047.4 | 1253.8 | 873.0  | 788.9  | 749.2  | 724.7  | 711.0  | 712.5  |
| 17.5° | 4564.1  | 3874.5 | 2830.2 | 1688.1 | 925.0  | 776.7  | 714.0  | 671.3  | 637.6  | 623.9  | 620.8  |
| 20°   | 4906.6  | 4067.1 | 2677.3 | 1256.8 | 782.9  | 704.9  | 634.6  | 587.2  | 553.5  | 539.7  | 536.7  |
| 22.5° | 5261.4  | 4230.8 | 2408.2 | 922.0  | 703.3  | 625.3  | 556.6  | 509.2  | 477.0  | 464.8  | 458.7  |
| 25°   | 5606.9  | 4363.8 | 2032.1 | 746.2  | 628.4  | 550.5  | 484.7  | 440.3  | 411.3  | 399.1  | 397.6  |
| 27.5° | 5929.5  | 4447.9 | 1596.3 | 659.0  | 562.7  | 483.2  | 423.6  | 383.8  | 359.3  | 350.2  | 348.6  |
| 30°   | 6220.0  | 4455.6 | 1180.4 | 594.8  | 504.6  | 425.1  | 370.0  | 334.9  | 313.5  | 304.2  | 301.2  |
| 32.5° | 6513.6  | 4391.3 | 859.4  | 536.7  | 451.1  | 374.6  | 321.1  | 293.5  | 278.3  | 270.6  | 270.6  |
| 35°   | 6790.3  | 4243.0 | 669.7  | 486.3  | 399.1  | 325.7  | 282.9  | 263.0  | 253.8  | 246.2  | 246.2  |
| 37.5° | 7060.9  | 4030.5 | 568.8  | 441.9  | 350.2  | 284.4  | 249.2  | 237.0  | 229.3  | 221.7  | 221.7  |
| 40°   | 7336.2  | 3762.9 | 516.8  | 400.6  | 310.4  | 252.3  | 221.7  | 211.0  | 203.4  | 197.2  | 195.7  |
| 42.5° | 7674.1  | 3454.1 | 483.2  | 362.4  | 275.2  | 223.2  | 195.7  | 183.5  | 177.4  | 171.2  | 168.2  |
| 45°   | 8065.5  | 3188.0 | 455.6  | 324.2  | 246.2  | 198.8  | 169.7  | 157.5  | 148.3  | 140.7  | 139.2  |
| 47.5° | 8629.8  | 2995.3 | 418.9  | 282.9  | 218.6  | 172.8  | 146.8  | 133.0  | 119.2  | 111.6  | 110.1  |
| 50°   | 9349.9  | 2836.3 | 371.6  | 246.2  | 191.2  | 146.8  | 122.3  | 105.5  | 93.2   | 85.6   | 85.6   |
| 52.5° | 9707.8  | 2628.4 | 328.7  | 214.1  | 160.5  | 123.9  | 99.4   | 79.6   | 73.4   | 65.8   | 65.8   |
| 55°   | 9851.4  | 2469.3 | 285.9  | 181.9  | 133.0  | 102.5  | 78.0   | 61.2   | 56.5   | 52.0   | 50.5   |
| 57.5° | 10255.1 | 2423.5 | 249.2  | 154.5  | 110.1  | 81.0   | 59.6   | 45.8   | 42.9   | 36.7   | 36.7   |
| 60°   | 10905.0 | 2446.4 | 215.6  | 131.5  | 88.7   | 62.7   | 44.3   | 35.2   | 32.1   | 26.0   | 26.0   |
| 62.5° | 11606.7 | 2417.4 | 181.9  | 113.2  | 68.8   | 45.8   | 30.6   | 26.0   | 26.0   | 15.3   | 13.8   |
| 65°   | 11741.3 | 2152.8 | 155.9  | 93.2   | 53.5   | 33.6   | 19.8   | 16.9   | 22.9   | 3.1    | 0.0    |
| 67.5° | 10897.2 | 1669.7 | 134.5  | 71.8   | 39.8   | 26.0   | 15.3   | 7.6    | 19.8   | 0.0    | 0.0    |
| 70°   | 8713.9  | 1061.1 | 108.5  | 52.0   | 30.6   | 21.4   | 12.2   | 3.1    | 15.3   | 0.0    | 0.0    |
| 72.5° | 6161.9  | 616.2  | 85.6   | 36.7   | 26.0   | 16.9   | 9.1    | 0.0    | 9.1    | 0.0    | 0.0    |
| 75°   | 3116.1  | 328.7  | 53.5   | 27.5   | 19.8   | 12.2   | 6.1    | 0.0    | 1.5    | 0.0    | 0.0    |
| 77.5° | 674.3   | 152.9  | 33.6   | 19.8   | 13.8   | 7.6    | 3.1    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 146.8   | 67.3   | 21.4   | 12.2   | 7.6    | 4.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 53.5    | 35.2   | 10.7   | 6.1    | 3.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 29.1    | 18.4   | 6.1    | 3.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 15.3    | 6.1    | 1.5    | 1.5    | 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)