

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: P459168

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

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459168  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-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: 29032 lumens  
Efficiency: N/A  
Efficacy: 90.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

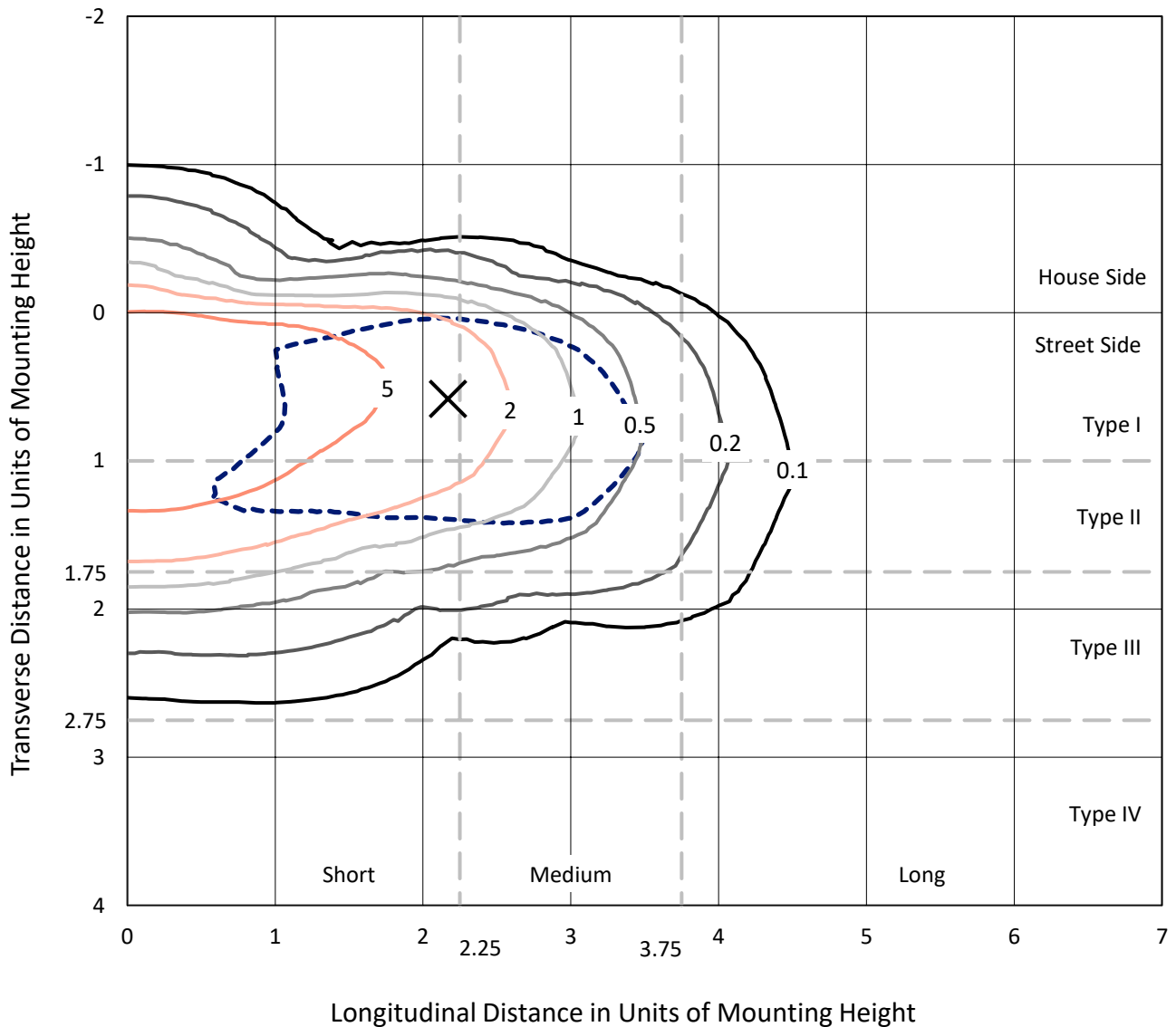
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

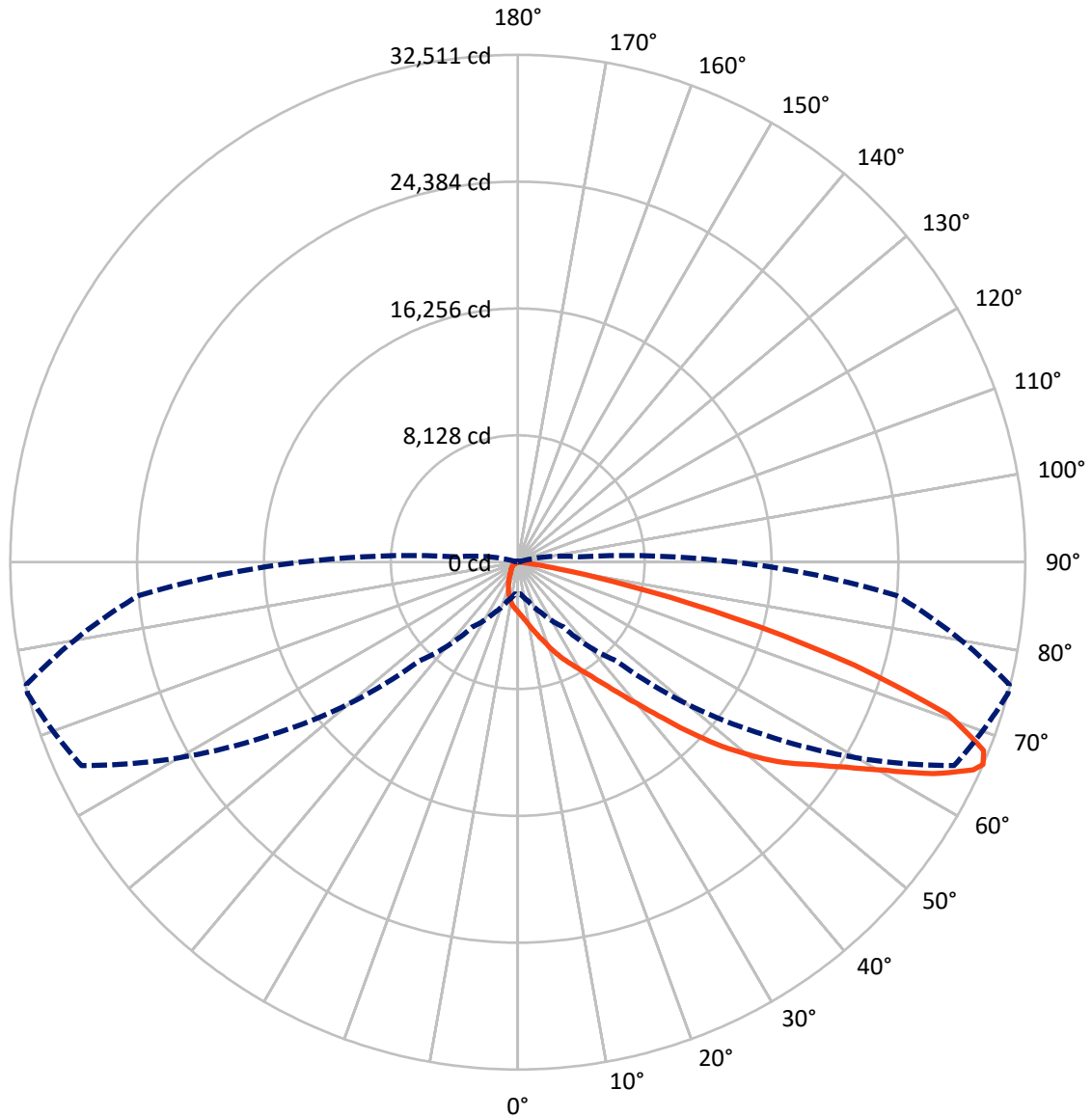
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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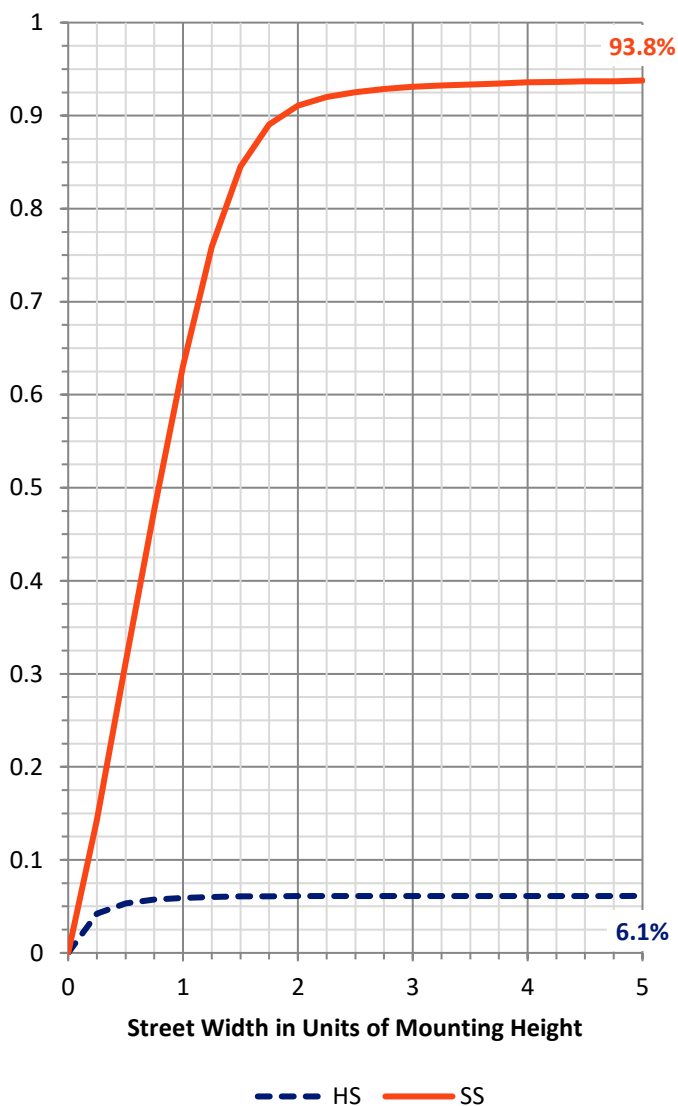
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1792.3   | 0.0    | 1792.3  |
|                    | % Fixture | 6.2      | 0.0    | 6.2     |
| <b>Street Side</b> | Lumens    | 27239.7  | 0.0    | 27239.7 |
|                    | % Fixture | 93.8     | 0.0    | 93.8    |
| <b>Total</b>       | Lumens    | 29032.0  | 0.0    | 29032.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 306.2   | 1.1       |
| 10°-20°   | 901.2   | 3.1       |
| 20°-30°   | 1556.2  | 5.4       |
| 30°-40°   | 2807.1  | 9.7       |
| 40°-50°   | 5071.2  | 17.5      |
| 50°-60°   | 7906.0  | 27.2      |
| 60°-70°   | 7510.4  | 25.9      |
| 70°-80°   | 2814.7  | 9.7       |
| 80°-90°   | 158.8   | 0.5       |
| 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°    | 29032.0 | 100.0     |
| 0°-180°   | 29032.0 | 100.0     |

**Coefficient of Utilization**



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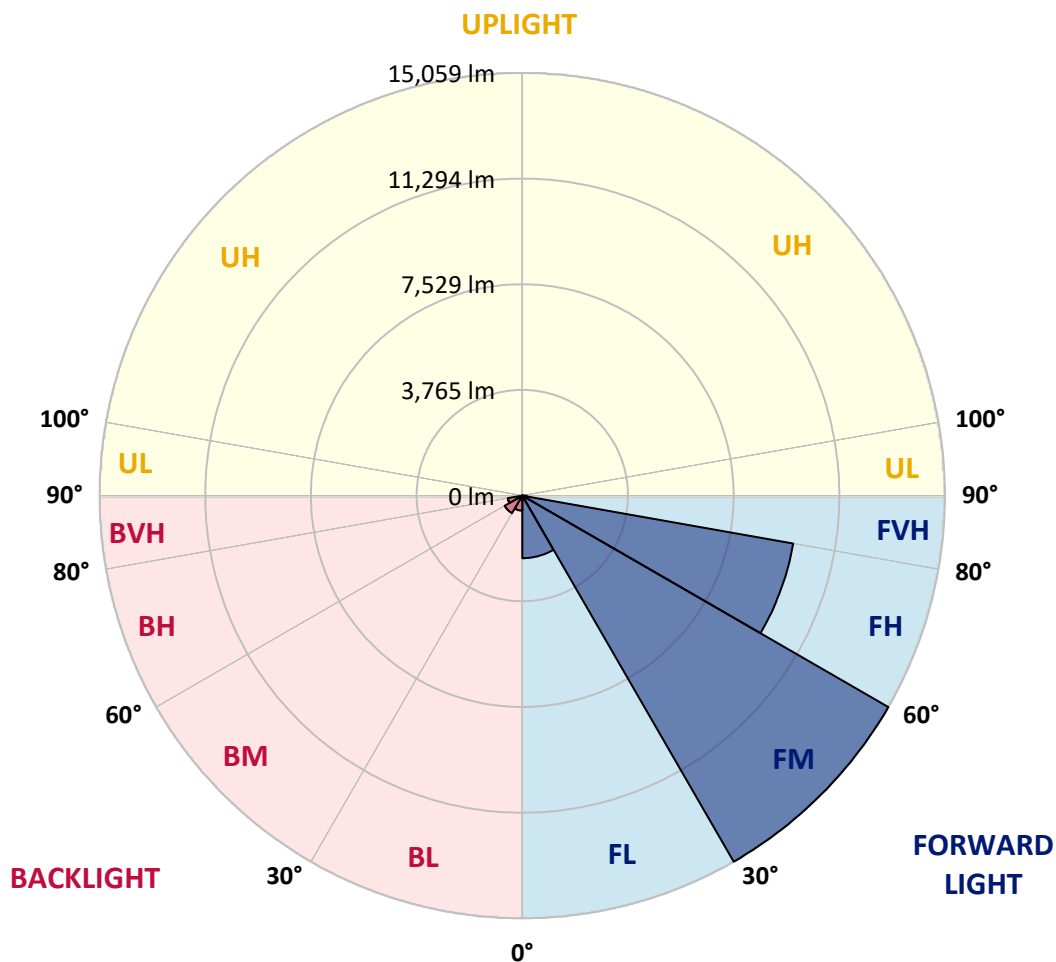
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 2228.5  | 7.7       |                         |      |          |
| FM (30°-60°)   | 15058.9 | 51.9      |                         |      |          |
| FH (60°-80°)   | 9801.7  | 33.8      |                         |      | G4/12000 |
| FVH (80°-90°)  | 150.6   | 0.5       |                         |      | G2/225   |
| BL (0°-30°)    | 535.3   | 1.8       | B2/1000                 |      |          |
| BM (30°-60°)   | 725.5   | 2.5       | B1/1000                 |      |          |
| BH (60°-80°)   | 523.4   | 1.8       | B2/1000                 |      | G2/1000  |
| BVH (80°-90°)  | 8.2     | 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 Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 76°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3174.9  | 3174.9  | 3174.9  | 3174.9  | 3174.9  | 3174.9  | 3174.9  | 3174.9  | 3174.9  | 3174.9  | 3174.9  |
| 2.5°  | 3793.2  | 3746.0  | 3761.0  | 3739.5  | 3690.1  | 3617.2  | 3552.8  | 3460.4  | 3368.1  | 3353.1  | 3250.1  |
| 5°    | 4293.4  | 4280.5  | 4263.3  | 4201.0  | 4166.7  | 4055.1  | 3922.0  | 3763.1  | 3572.1  | 3537.7  | 3351.0  |
| 7.5°  | 4634.7  | 4628.2  | 4636.8  | 4604.6  | 4574.6  | 4473.7  | 4332.0  | 4115.2  | 3818.9  | 3799.6  | 3488.4  |
| 10°   | 4746.3  | 4763.5  | 4795.7  | 4847.2  | 4894.4  | 4862.2  | 4754.9  | 4484.4  | 4138.8  | 4083.0  | 3645.1  |
| 12.5° | 4681.9  | 4701.2  | 4778.5  | 4915.9  | 5068.3  | 5156.3  | 5113.4  | 4915.9  | 4478.0  | 4432.9  | 3821.1  |
| 15°   | 4516.6  | 4540.2  | 4649.7  | 4862.2  | 5134.9  | 5383.9  | 5491.2  | 5349.5  | 4873.0  | 4800.0  | 4033.6  |
| 17.5° | 4271.9  | 4306.2  | 4462.9  | 4744.2  | 5117.7  | 5547.0  | 5849.7  | 5802.5  | 5293.7  | 5225.0  | 4265.4  |
| 20°   | 4087.3  | 4113.0  | 4246.1  | 4568.1  | 5044.7  | 5637.2  | 6191.0  | 6324.1  | 5813.2  | 5695.1  | 4538.1  |
| 22.5° | 4209.6  | 4218.2  | 4263.3  | 4456.5  | 4913.7  | 5660.8  | 6491.6  | 6867.2  | 6364.9  | 6259.7  | 4821.4  |
| 25°   | 4808.6  | 4722.7  | 4677.6  | 4634.7  | 4885.8  | 5639.3  | 6764.2  | 7433.9  | 6914.4  | 6802.8  | 5102.7  |
| 27.5° | 5753.1  | 5714.5  | 5486.9  | 5182.1  | 5124.1  | 5667.2  | 6944.5  | 7970.6  | 7431.8  | 7311.6  | 5377.4  |
| 30°   | 6781.4  | 6714.8  | 6575.3  | 6128.8  | 5680.1  | 5864.7  | 7075.4  | 8492.3  | 8043.6  | 7884.7  | 5628.6  |
| 32.5° | 7725.9  | 7768.8  | 7560.6  | 7101.2  | 6581.7  | 6285.5  | 7245.0  | 9061.1  | 8745.6  | 8548.1  | 5920.5  |
| 35°   | 8827.1  | 8913.0  | 8593.2  | 8153.1  | 7545.6  | 7045.4  | 7575.6  | 9703.0  | 9636.4  | 9387.4  | 6371.3  |
| 37.5° | 9945.6  | 9997.1  | 9801.7  | 9183.5  | 8636.1  | 8011.4  | 8198.2  | 10495.1 | 10733.4 | 10520.9 | 6910.2  |
| 40°   | 10885.8 | 10956.6 | 10812.8 | 10263.3 | 9679.4  | 9129.8  | 9101.9  | 11358.1 | 12038.6 | 11819.6 | 7713.0  |
| 42.5° | 11604.9 | 11658.6 | 11662.9 | 11274.4 | 10748.4 | 10499.4 | 10254.7 | 12459.3 | 13674.3 | 13421.0 | 8644.7  |
| 45°   | 12513.0 | 12590.3 | 12545.2 | 12281.1 | 11888.3 | 11843.2 | 11716.6 | 13790.3 | 15632.1 | 15312.3 | 9853.3  |
| 47.5° | 13916.9 | 13968.4 | 13856.8 | 13545.5 | 13146.3 | 13217.1 | 13142.0 | 15282.2 | 17628.5 | 17353.7 | 11104.8 |
| 50°   | 14891.5 | 14977.4 | 15136.2 | 15260.7 | 14970.9 | 14709.0 | 14485.8 | 16675.4 | 19524.0 | 19277.2 | 12384.2 |
| 52.5° | 14880.8 | 15022.4 | 15524.8 | 16151.6 | 16784.9 | 16705.4 | 16063.6 | 18214.6 | 21333.7 | 21028.9 | 13586.3 |
| 55°   | 13878.3 | 14153.0 | 14891.5 | 16003.5 | 17757.3 | 18631.0 | 18339.1 | 19996.3 | 22896.5 | 22690.4 | 14979.5 |
| 57.5° | 11808.9 | 11976.3 | 13002.4 | 14556.6 | 17214.2 | 19536.9 | 20975.2 | 22411.3 | 24770.5 | 24673.9 | 17143.4 |
| 60°   | 7942.7  | 8017.8  | 9338.0  | 11259.3 | 14655.4 | 18633.2 | 22907.2 | 25332.9 | 27078.2 | 27031.0 | 19670.0 |
| 62.5° | 4551.0  | 4583.2  | 5540.6  | 7161.3  | 10428.6 | 15791.0 | 23070.3 | 28937.2 | 29845.3 | 29871.0 | 22593.8 |
| 65°   | 2449.4  | 2466.5  | 3239.3  | 4203.2  | 6345.6  | 11255.0 | 20745.5 | 30912.2 | 32082.1 | 32131.5 | 24405.6 |
| 66°   | 2114.5  | 2032.9  | 2578.2  | 3582.8  | 5049.0  | 8958.1  | 19275.0 | 30841.3 | 32511.4 | 32457.8 | 24341.2 |
| 67.5° | 1607.9  | 1680.8  | 2058.7  | 2754.2  | 3741.7  | 6369.2  | 15913.3 | 29469.6 | 32185.1 | 32017.7 | 23351.6 |
| 70°   | 1150.6  | 1180.7  | 1466.2  | 1964.2  | 2548.1  | 3494.8  | 10168.8 | 24476.4 | 29252.8 | 29027.4 | 20344.1 |
| 72.5° | 742.8   | 775.0   | 1039.0  | 1421.1  | 1841.8  | 1908.4  | 5693.0  | 17684.3 | 22553.0 | 22520.8 | 15320.8 |
| 75°   | 530.2   | 560.3   | 686.9   | 1017.5  | 1384.6  | 1180.7  | 2741.3  | 11918.4 | 14337.7 | 14241.1 | 9477.6  |
| 77.5° | 384.3   | 399.3   | 459.4   | 665.5   | 989.6   | 845.8   | 1270.8  | 6364.9  | 7137.7  | 7474.7  | 4188.2  |
| 80°   | 221.1   | 234.0   | 319.9   | 405.7   | 669.8   | 577.5   | 607.5   | 2554.5  | 2634.0  | 2507.3  | 1309.5  |
| 82.5° | 109.5   | 124.5   | 191.1   | 276.9   | 418.6   | 388.5   | 279.1   | 768.5   | 811.4   | 790.0   | 330.6   |
| 85°   | 25.8    | 32.2    | 107.3   | 182.5   | 203.9   | 173.9   | 135.2   | 225.4   | 279.1   | 272.6   | 126.7   |
| 87.5° | 2.1     | 4.3     | 38.6    | 32.2    | 34.3    | 58.0    | 47.2    | 58.0    | 90.2    | 83.7    | 45.1    |
| 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):**

|       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3174.9  | 3174.9 | 3174.9 | 3174.9 | 3174.9 | 3174.9 | 3174.9 | 3174.9 | 3174.9 | 3174.9 | 3174.9 |
| 2.5°  | 3202.8  | 3162.1 | 3044.0 | 2928.1 | 2831.5 | 2730.6 | 2638.3 | 2584.6 | 2563.1 | 2539.5 | 2550.3 |
| 5°    | 3247.9  | 3149.2 | 2910.9 | 2704.8 | 2503.0 | 2331.3 | 2193.9 | 2105.9 | 2063.0 | 2056.5 | 2045.8 |
| 7.5°  | 3308.0  | 3138.4 | 2769.2 | 2447.2 | 2183.2 | 1992.1 | 1835.4 | 1708.8 | 1670.1 | 1635.8 | 1607.9 |
| 10°   | 3381.0  | 3119.1 | 2593.2 | 2176.7 | 1895.5 | 1655.1 | 1449.0 | 1298.7 | 1221.5 | 1200.0 | 1215.0 |
| 12.5° | 3458.3  | 3082.6 | 2408.6 | 1927.7 | 1603.6 | 1296.6 | 1105.5 | 1030.4 | 1008.9 | 1000.4 | 1002.5 |
| 15°   | 3535.6  | 3037.5 | 2215.4 | 1687.3 | 1277.3 | 1034.7 | 946.7  | 927.4  | 918.8  | 914.5  | 910.2  |
| 17.5° | 3606.4  | 2964.6 | 1998.6 | 1453.3 | 1034.7 | 884.4  | 852.2  | 835.1  | 817.9  | 811.4  | 800.7  |
| 20°   | 3690.1  | 2880.8 | 1803.2 | 1191.4 | 875.8  | 800.7  | 762.1  | 729.9  | 704.1  | 686.9  | 684.8  |
| 22.5° | 3769.6  | 2773.5 | 1599.3 | 987.5  | 798.6  | 719.1  | 656.9  | 622.5  | 592.5  | 571.0  | 577.5  |
| 25°   | 3812.5  | 2642.6 | 1416.8 | 860.8  | 727.7  | 637.6  | 568.9  | 525.9  | 493.7  | 483.0  | 480.9  |
| 27.5° | 3812.5  | 2481.6 | 1238.6 | 787.8  | 663.3  | 564.6  | 493.7  | 452.9  | 431.5  | 416.5  | 418.6  |
| 30°   | 3782.4  | 2303.4 | 1073.3 | 732.0  | 607.5  | 500.2  | 433.6  | 397.1  | 380.0  | 369.2  | 367.1  |
| 32.5° | 3758.8  | 2133.8 | 931.7  | 678.4  | 549.5  | 444.4  | 386.4  | 358.5  | 341.3  | 330.6  | 330.6  |
| 35°   | 3795.3  | 1987.8 | 822.2  | 624.7  | 495.9  | 401.4  | 349.9  | 324.1  | 307.0  | 298.4  | 296.2  |
| 37.5° | 3891.9  | 1854.7 | 738.5  | 566.7  | 446.5  | 364.9  | 324.1  | 294.1  | 276.9  | 266.2  | 261.9  |
| 40°   | 4130.2  | 1779.6 | 676.2  | 513.1  | 399.3  | 334.9  | 294.1  | 266.2  | 244.7  | 234.0  | 231.8  |
| 42.5° | 4512.3  | 1781.7 | 616.1  | 463.7  | 362.8  | 309.1  | 268.3  | 236.1  | 212.5  | 201.8  | 199.6  |
| 45°   | 5087.6  | 1863.3 | 568.9  | 416.5  | 330.6  | 281.2  | 240.4  | 206.1  | 184.6  | 173.9  | 173.9  |
| 47.5° | 5776.7  | 2022.2 | 528.1  | 375.7  | 300.5  | 255.5  | 212.5  | 178.2  | 156.7  | 148.1  | 148.1  |
| 50°   | 6523.8  | 2228.3 | 487.3  | 332.7  | 274.8  | 227.5  | 182.5  | 154.6  | 137.4  | 130.9  | 130.9  |
| 52.5° | 7285.8  | 2477.3 | 446.5  | 298.4  | 246.9  | 197.5  | 156.7  | 137.4  | 122.4  | 118.1  | 115.9  |
| 55°   | 8286.2  | 2795.0 | 403.6  | 261.9  | 216.8  | 169.6  | 139.5  | 120.2  | 103.0  | 96.6   | 94.5   |
| 57.5° | 9825.3  | 3273.7 | 356.3  | 229.7  | 178.2  | 141.7  | 120.2  | 100.9  | 81.6   | 70.8   | 68.7   |
| 60°   | 11682.2 | 3857.6 | 307.0  | 201.8  | 143.8  | 115.9  | 96.6   | 77.3   | 60.1   | 47.2   | 45.1   |
| 62.5° | 13421.0 | 4229.0 | 259.7  | 169.6  | 113.8  | 88.0   | 68.7   | 58.0   | 42.9   | 30.1   | 27.9   |
| 65°   | 14189.5 | 4104.4 | 214.7  | 137.4  | 90.2   | 62.3   | 45.1   | 40.8   | 25.8   | 12.9   | 10.7   |
| 66°   | 13934.1 | 3919.8 | 197.5  | 124.5  | 81.6   | 53.7   | 38.6   | 34.3   | 19.3   | 6.4    | 6.4    |
| 67.5° | 13180.6 | 3484.1 | 171.7  | 107.3  | 70.8   | 42.9   | 30.1   | 25.8   | 10.7   | 2.1    | 0.0    |
| 70°   | 11293.7 | 2818.6 | 135.2  | 79.4   | 51.5   | 30.1   | 17.2   | 12.9   | 6.4    | 0.0    | 0.0    |
| 72.5° | 8674.7  | 2099.5 | 107.3  | 60.1   | 36.5   | 17.2   | 8.6    | 4.3    | 6.4    | 0.0    | 0.0    |
| 75°   | 5315.2  | 1200.0 | 83.7   | 45.1   | 23.6   | 10.7   | 6.4    | 0.0    | 6.4    | 2.1    | 0.0    |
| 77.5° | 2359.2  | 538.8  | 55.8   | 30.1   | 17.2   | 8.6    | 4.3    | 0.0    | 4.3    | 2.1    | 0.0    |
| 80°   | 596.8   | 176.0  | 32.2   | 21.5   | 12.9   | 6.4    | 2.1    | 0.0    | 4.3    | 4.3    | 2.1    |
| 82.5° | 163.1   | 64.4   | 23.6   | 17.2   | 10.7   | 6.4    | 2.1    | 0.0    | 4.3    | 4.3    | 4.3    |
| 85°   | 64.4    | 30.1   | 21.5   | 17.2   | 12.9   | 6.4    | 2.1    | 0.0    | 4.3    | 4.3    | 4.3    |
| 87.5° | 30.1    | 21.5   | 21.5   | 19.3   | 15.0   | 6.4    | 2.1    | 0.0    | 4.3    | 2.1    | 4.3    |
| 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)