

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: P532117

Luminaire Tested: **GALN-SA7C-722-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532117  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7C-722-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2200K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21496 lumens  
Efficiency: N/A  
Efficacy: 57.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

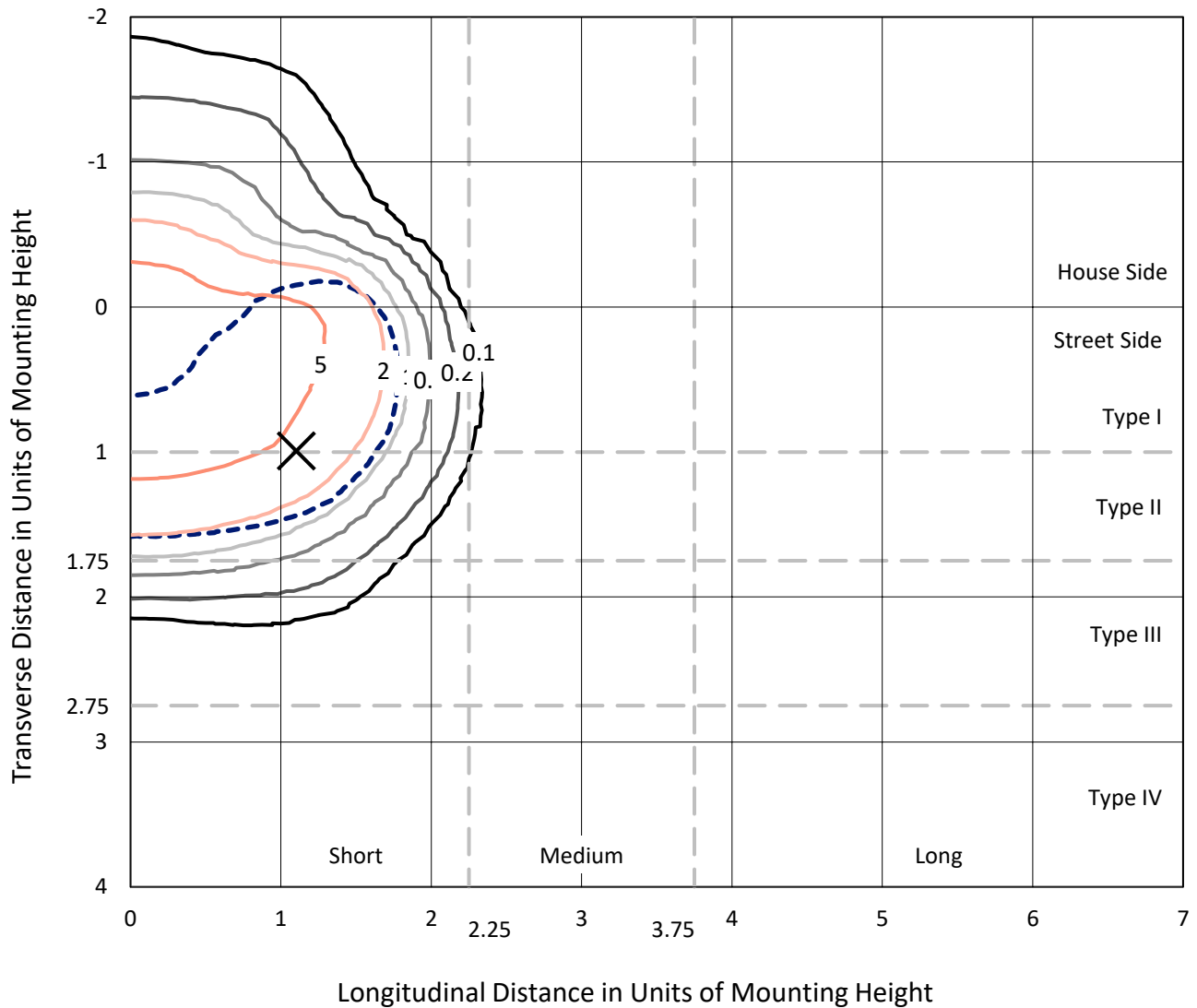
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

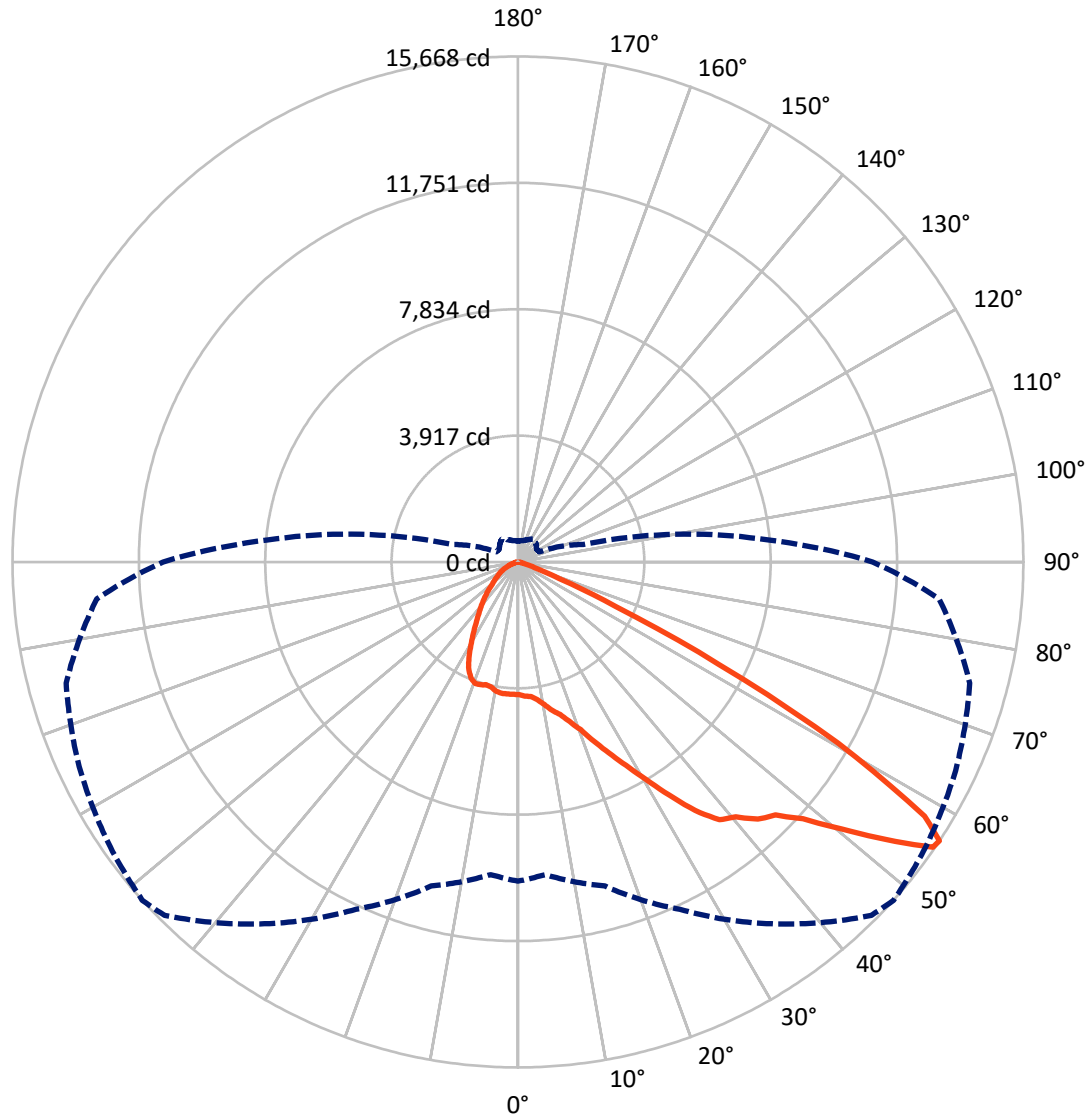
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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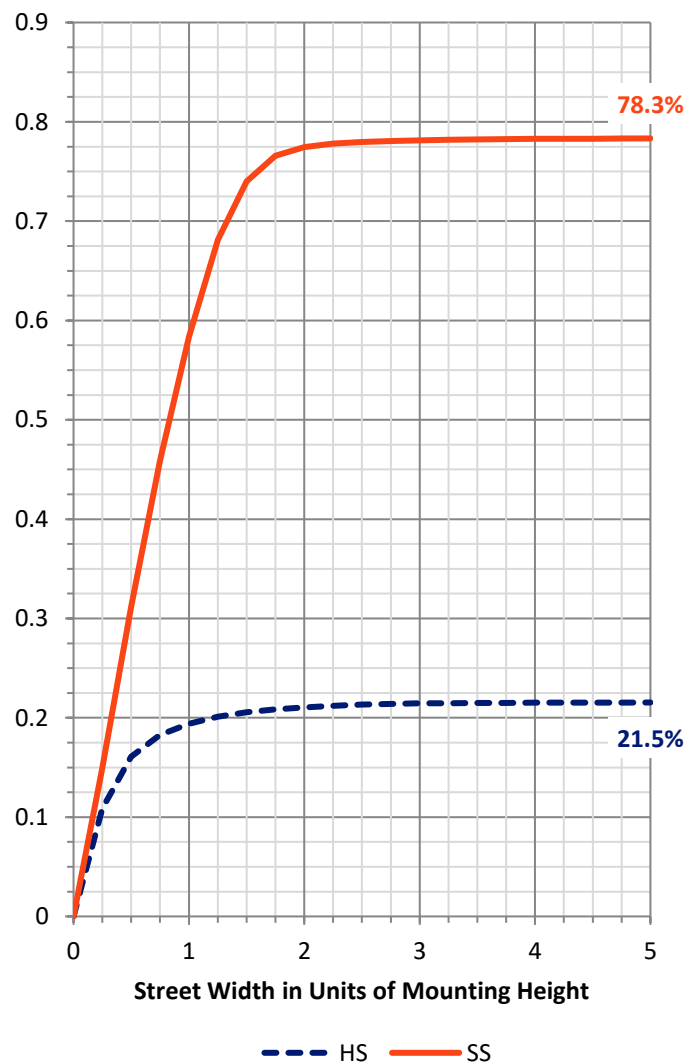
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4675.0   | 0.0    | 4675.0  |
|                    | % Fixture | 21.7     | 0.0    | 21.7    |
| <b>Street Side</b> | Lumens    | 16821.0  | 0.0    | 16821.0 |
|                    | % Fixture | 78.3     | 0.0    | 78.3    |
| <b>Total</b>       | Lumens    | 21496.0  | 0.0    | 21496.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 399.9   | 1.9       |
| 10°-20°   | 1278.2  | 5.9       |
| 20°-30°   | 2318.3  | 10.8      |
| 30°-40°   | 3641.6  | 16.9      |
| 40°-50°   | 5312.4  | 24.7      |
| 50°-60°   | 6400.5  | 29.8      |
| 60°-70°   | 1874.0  | 8.7       |
| 70°-80°   | 237.7   | 1.1       |
| 80°-90°   | 33.3    | 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°    | 21496.0 | 100.0     |
| 0°-180°   | 21496.0 | 100.0     |

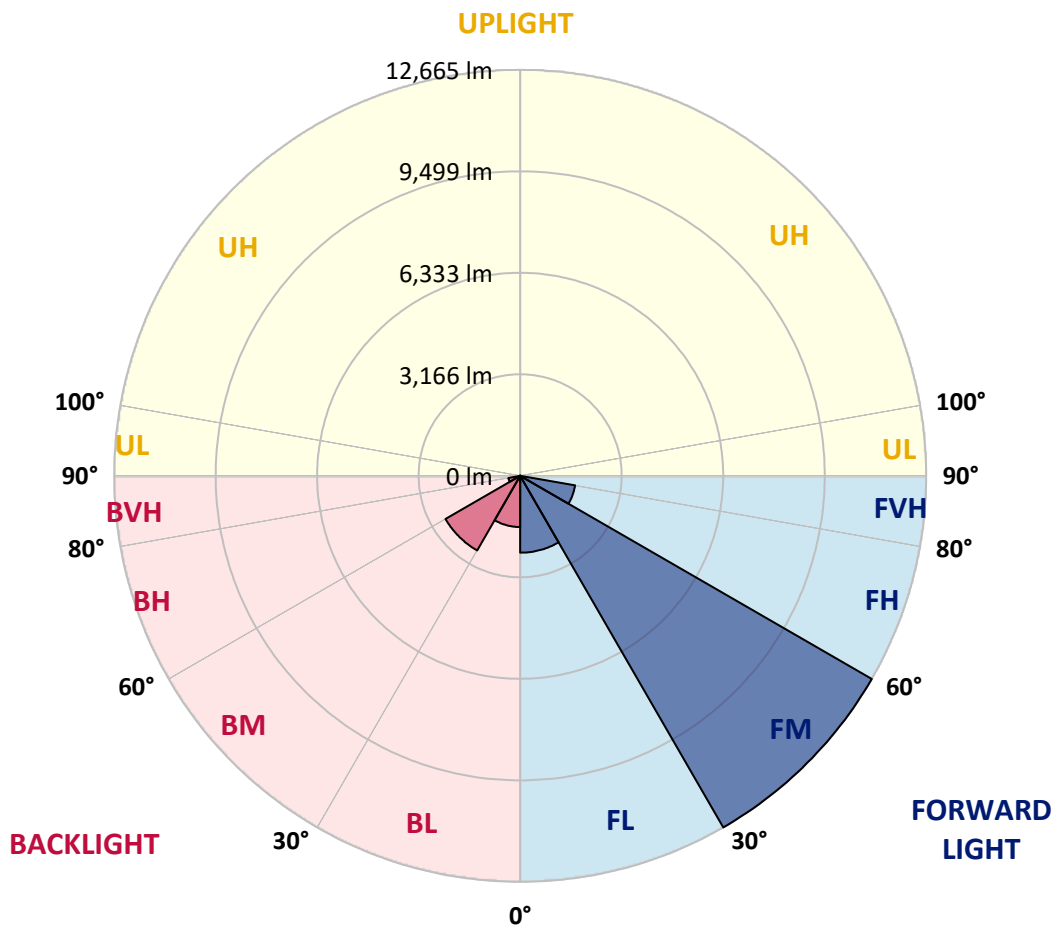


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2398.5  | 11.2      |                         |      |         |
| FM (30°-60°)   | 12665.5 | 58.9      |                         |      |         |
| FH (60°-80°)   | 1740.3  | 8.1       |                         |      | G1/1800 |
| FVH (80°-90°)  | 16.7    | 0.1       |                         |      | G1/100  |
| BL (0°-30°)    | 1597.9  | 7.4       | B3/2500                 |      |         |
| BM (30°-60°)   | 2689.0  | 12.5      | B3/5000                 |      |         |
| BH (60°-80°)   | 371.5   | 1.7       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 16.6    | 0.1       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 48°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4105.7  | 4105.7  | 4105.7  | 4105.7  | 4105.7  | 4105.7  | 4105.7  | 4105.7  | 4105.7  | 4105.7  | 4105.7  |
| 2.5°  | 4180.1  | 4160.5  | 4160.5  | 4129.2  | 4164.5  | 4148.8  | 4160.5  | 4121.4  | 4160.5  | 4101.8  | 4148.8  |
| 5°    | 4199.7  | 4203.6  | 4187.9  | 4207.5  | 4207.5  | 4231.0  | 4191.9  | 4227.1  | 4246.6  | 4203.6  | 4184.0  |
| 7.5°  | 4301.4  | 4309.3  | 4305.4  | 4289.7  | 4321.0  | 4317.1  | 4313.2  | 4285.8  | 4293.6  | 4278.0  | 4254.5  |
| 10°   | 4501.1  | 4497.1  | 4516.7  | 4477.6  | 4454.1  | 4481.5  | 4489.3  | 4446.3  | 4414.9  | 4403.2  | 4328.8  |
| 12.5° | 4790.7  | 4743.7  | 4716.3  | 4677.2  | 4688.9  | 4649.8  | 4720.2  | 4645.9  | 4630.2  | 4559.8  | 4485.4  |
| 15°   | 5025.5  | 5017.7  | 5021.6  | 4959.0  | 4888.5  | 4904.2  | 4904.2  | 4865.1  | 4841.6  | 4755.5  | 4649.8  |
| 17.5° | 5506.9  | 5342.6  | 5377.8  | 5299.5  | 5240.8  | 5236.9  | 5201.7  | 5209.5  | 5146.9  | 4966.8  | 4806.3  |
| 20°   | 5882.7  | 5812.2  | 5757.4  | 5624.4  | 5534.3  | 5561.7  | 5546.1  | 5506.9  | 5487.4  | 5252.5  | 5025.5  |
| 22.5° | 6219.3  | 6242.8  | 6152.7  | 6117.5  | 5992.3  | 6004.0  | 6035.3  | 6000.1  | 5851.4  | 5608.7  | 5272.1  |
| 25°   | 6692.9  | 6665.5  | 6544.1  | 6501.1  | 6383.7  | 6426.7  | 6548.1  | 6520.7  | 6426.7  | 5988.4  | 5463.9  |
| 27.5° | 7252.6  | 7158.6  | 7182.1  | 6986.4  | 6872.9  | 6994.2  | 7139.1  | 7276.1  | 7009.9  | 6434.6  | 5690.9  |
| 30°   | 7647.9  | 7550.0  | 7542.2  | 7534.4  | 7507.0  | 7647.9  | 7816.2  | 7941.4  | 7726.2  | 6880.7  | 6066.6  |
| 32.5° | 7843.6  | 7867.1  | 7933.6  | 7910.1  | 8148.9  | 8438.5  | 8614.6  | 8794.7  | 8524.6  | 7608.7  | 6563.7  |
| 35°   | 8364.1  | 8215.4  | 8364.1  | 8379.8  | 8626.4  | 9240.9  | 9464.0  | 9894.5  | 9828.0  | 8638.1  | 7170.4  |
| 37.5° | 8669.4  | 8657.7  | 8677.3  | 8826.0  | 9064.7  | 9824.0  | 10141.1 | 10473.8 | 10348.5 | 9256.5  | 7925.8  |
| 40°   | 9174.3  | 9205.6  | 9201.7  | 9315.2  | 9577.5  | 10262.4 | 10391.6 | 10661.6 | 10673.4 | 10113.7 | 9037.3  |
| 42.5° | 9984.5  | 9859.3  | 9777.1  | 9894.5  | 10262.4 | 10642.1 | 10900.4 | 10845.6 | 11233.1 | 11154.8 | 10465.9 |
| 45°   | 10712.5 | 10786.9 | 10665.5 | 10861.2 | 10994.3 | 11197.8 | 11190.0 | 11307.4 | 11800.6 | 12172.4 | 11542.3 |
| 47.5° | 11393.5 | 11440.5 | 11499.2 | 11632.3 | 11921.9 | 11953.2 | 11886.7 | 11835.8 | 12516.8 | 12900.4 | 12375.9 |
| 50°   | 11800.6 | 11843.6 | 12117.6 | 12356.4 | 12896.5 | 12967.0 | 13006.1 | 12876.9 | 13338.8 | 13381.8 | 13162.7 |
| 52.5° | 11691.0 | 11738.0 | 12121.5 | 12908.2 | 13769.3 | 14415.1 | 14297.7 | 14078.5 | 14051.1 | 14219.4 | 13890.6 |
| 55°   | 10720.3 | 10677.3 | 11205.7 | 12430.7 | 14043.3 | 15593.2 | 15608.9 | 15378.0 | 14935.7 | 14822.2 | 13781.1 |
| 56°   | 9894.5  | 9726.2  | 10399.4 | 11878.9 | 13691.0 | 15491.5 | 15667.6 | 15421.0 | 15006.1 | 14497.3 | 13103.9 |
| 57.5° | 8105.8  | 8266.3  | 8935.6  | 10160.6 | 12473.8 | 14759.5 | 14861.3 | 14802.6 | 14489.5 | 13636.2 | 11530.5 |
| 60°   | 4469.7  | 4751.5  | 5342.6  | 6841.6  | 8880.8  | 11327.0 | 11409.2 | 11886.7 | 11945.4 | 10442.4 | 7933.6  |
| 62.5° | 1898.3  | 1867.0  | 2481.5  | 3585.2  | 5056.8  | 6837.7  | 6990.3  | 7479.6  | 7569.6  | 6019.7  | 3980.5  |
| 65°   | 771.1   | 814.1   | 1123.3  | 1804.3  | 2673.2  | 3115.5  | 3330.8  | 3491.3  | 3788.7  | 2485.4  | 1467.7  |
| 67.5° | 508.8   | 504.9   | 661.5   | 1029.4  | 1440.3  | 1389.5  | 1389.5  | 1467.7  | 1358.1  | 1013.7  | 634.1   |
| 70°   | 364.0   | 375.7   | 473.6   | 712.3   | 896.3   | 665.4   | 638.0   | 610.6   | 692.8   | 669.3   | 512.7   |
| 72.5° | 238.8   | 254.4   | 317.0   | 426.6   | 465.8   | 364.0   | 364.0   | 438.4   | 571.4   | 540.1   | 418.8   |
| 75°   | 156.6   | 160.5   | 195.7   | 246.6   | 230.9   | 187.9   | 207.4   | 293.5   | 414.9   | 399.2   | 297.5   |
| 77.5° | 105.7   | 109.6   | 133.1   | 160.5   | 129.2   | 105.7   | 113.5   | 148.7   | 203.5   | 203.5   | 156.6   |
| 80°   | 39.1    | 43.1    | 54.8    | 50.9    | 58.7    | 74.4    | 82.2    | 101.8   | 121.3   | 121.3   | 105.7   |
| 82.5° | 0.0     | 3.9     | 11.7    | 27.4    | 43.1    | 58.7    | 66.5    | 78.3    | 90.0    | 101.8   | 97.8    |
| 85°   | 0.0     | 3.9     | 11.7    | 19.6    | 31.3    | 35.2    | 39.1    | 27.4    | 23.5    | 23.5    | 19.6    |
| 87.5° | 0.0     | 0.0     | 3.9     | 3.9     | 3.9     | 3.9     | 3.9     | 3.9     | 7.8     | 3.9     | 3.9     |
| 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°    | 4105.7  | 4105.7 | 4105.7 | 4105.7 | 4105.7 | 4105.7 | 4105.7 | 4105.7 | 4105.7 | 4105.7 | 4105.7 |
| 2.5°  | 4105.7  | 4101.8 | 4101.8 | 4090.1 | 4113.6 | 4101.8 | 4109.7 | 4105.7 | 4054.9 | 4094.0 | 4066.6 |
| 5°    | 4148.8  | 4176.2 | 4133.1 | 4125.3 | 4094.0 | 4105.7 | 4105.7 | 4066.6 | 4101.8 | 4097.9 | 4090.1 |
| 7.5°  | 4258.4  | 4211.4 | 4164.5 | 4117.5 | 4109.7 | 4097.9 | 4054.9 | 4039.2 | 4066.6 | 4035.3 | 4082.3 |
| 10°   | 4305.4  | 4313.2 | 4242.7 | 4180.1 | 4121.4 | 4039.2 | 3980.5 | 3945.3 | 3902.2 | 3949.2 | 3976.6 |
| 12.5° | 4520.6  | 4442.3 | 4321.0 | 4223.2 | 4023.6 | 3941.4 | 3882.6 | 3867.0 | 3941.4 | 3957.0 | 3929.6 |
| 15°   | 4595.0  | 4583.2 | 4426.7 | 4207.5 | 4000.1 | 3902.2 | 3914.0 | 3882.6 | 3890.5 | 3851.3 | 3859.2 |
| 17.5° | 4747.6  | 4614.6 | 4430.6 | 4156.6 | 3996.2 | 3972.7 | 3902.2 | 3777.0 | 3706.5 | 3675.2 | 3702.6 |
| 20°   | 4915.9  | 4786.8 | 4520.6 | 4176.2 | 4031.4 | 3968.8 | 3737.8 | 3585.2 | 3440.4 | 3362.1 | 3366.0 |
| 22.5° | 5064.7  | 4904.2 | 4481.5 | 4184.0 | 4062.7 | 3804.4 | 3526.5 | 3225.1 | 3045.1 | 2923.7 | 2927.6 |
| 25°   | 5244.7  | 5017.7 | 4497.1 | 4199.7 | 3980.5 | 3542.1 | 3142.9 | 2849.4 | 2634.1 | 2551.9 | 2579.3 |
| 27.5° | 5346.5  | 5088.1 | 4583.2 | 4234.9 | 3765.2 | 3170.3 | 2739.8 | 2465.8 | 2340.5 | 2301.4 | 2297.5 |
| 30°   | 5651.8  | 5244.7 | 4688.9 | 4164.5 | 3405.1 | 2771.1 | 2371.9 | 2203.6 | 2082.2 | 2047.0 | 2054.8 |
| 32.5° | 6105.8  | 5530.4 | 4825.9 | 3980.5 | 3037.2 | 2414.9 | 2133.1 | 2007.9 | 1894.4 | 1827.8 | 1820.0 |
| 35°   | 6485.4  | 6019.7 | 4970.7 | 3694.8 | 2610.6 | 2140.9 | 1964.8 | 1808.3 | 1636.0 | 1561.7 | 1542.1 |
| 37.5° | 7209.5  | 6571.5 | 4939.4 | 3264.2 | 2203.6 | 1937.4 | 1784.8 | 1593.0 | 1444.3 | 1342.5 | 1330.7 |
| 40°   | 8172.4  | 7217.3 | 4786.8 | 2739.8 | 1902.2 | 1757.4 | 1593.0 | 1409.0 | 1225.1 | 1139.0 | 1131.1 |
| 42.5° | 9342.6  | 8008.0 | 4508.9 | 2207.5 | 1600.8 | 1577.3 | 1428.6 | 1217.2 | 1052.9 | 990.2  | 994.1  |
| 45°   | 10293.7 | 8685.1 | 4227.1 | 1773.0 | 1377.7 | 1401.2 | 1272.0 | 1072.4 | 958.9  | 908.0  | 908.0  |
| 47.5° | 11139.1 | 9143.0 | 3921.8 | 1463.8 | 1170.3 | 1225.1 | 1111.6 | 994.1  | 896.3  | 857.2  | 849.3  |
| 50°   | 11953.2 | 9608.8 | 3616.5 | 1185.9 | 998.1  | 1052.9 | 1041.1 | 947.2  | 868.9  | 821.9  | 825.8  |
| 52.5° | 12462.1 | 9683.1 | 3229.0 | 970.7  | 872.8  | 935.4  | 974.6  | 888.5  | 802.4  | 775.0  | 767.1  |
| 55°   | 11839.7 | 8724.2 | 2504.9 | 798.4  | 739.7  | 821.9  | 896.3  | 798.4  | 731.9  | 684.9  | 681.0  |
| 56°   | 11002.1 | 7800.5 | 2094.0 | 735.8  | 700.6  | 790.6  | 868.9  | 763.2  | 688.9  | 661.5  | 641.9  |
| 57.5° | 9315.2  | 6383.7 | 1546.0 | 653.6  | 649.7  | 735.8  | 825.8  | 728.0  | 641.9  | 618.4  | 618.4  |
| 60°   | 5808.3  | 3593.0 | 935.4  | 548.0  | 563.6  | 653.6  | 743.7  | 649.7  | 571.4  | 571.4  | 583.2  |
| 62.5° | 2645.8  | 1495.1 | 567.5  | 465.8  | 485.3  | 563.6  | 661.5  | 587.1  | 544.0  | 587.1  | 594.9  |
| 65°   | 900.2   | 645.8  | 411.0  | 371.8  | 383.6  | 465.8  | 567.5  | 594.9  | 591.0  | 618.4  | 634.1  |
| 67.5° | 504.9   | 414.9  | 344.4  | 309.2  | 301.4  | 344.4  | 465.8  | 594.9  | 571.4  | 559.7  | 567.5  |
| 70°   | 426.6   | 352.3  | 305.3  | 274.0  | 262.2  | 277.9  | 360.1  | 450.1  | 403.1  | 391.4  | 383.6  |
| 72.5° | 344.4   | 293.5  | 266.1  | 246.6  | 211.4  | 180.0  | 164.4  | 172.2  | 191.8  | 203.5  | 223.1  |
| 75°   | 242.7   | 223.1  | 223.1  | 199.6  | 152.6  | 113.5  | 90.0   | 74.4   | 50.9   | 35.2   | 39.1   |
| 77.5° | 137.0   | 137.0  | 140.9  | 121.3  | 97.8   | 74.4   | 54.8   | 39.1   | 19.6   | 7.8    | 3.9    |
| 80°   | 93.9    | 101.8  | 109.6  | 97.8   | 82.2   | 66.5   | 47.0   | 27.4   | 11.7   | 0.0    | 0.0    |
| 82.5° | 93.9    | 105.7  | 113.5  | 97.8   | 82.2   | 62.6   | 47.0   | 27.4   | 11.7   | 3.9    | 0.0    |
| 85°   | 19.6    | 23.5   | 27.4   | 31.3   | 47.0   | 47.0   | 35.2   | 23.5   | 11.7   | 3.9    | 0.0    |
| 87.5° | 3.9     | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 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)