

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: P650985

Luminaire Tested: **GALN-SA6C-840-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650985  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6C-840-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30606.5 lumens  
Efficiency: N/A  
Efficacy: 95.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

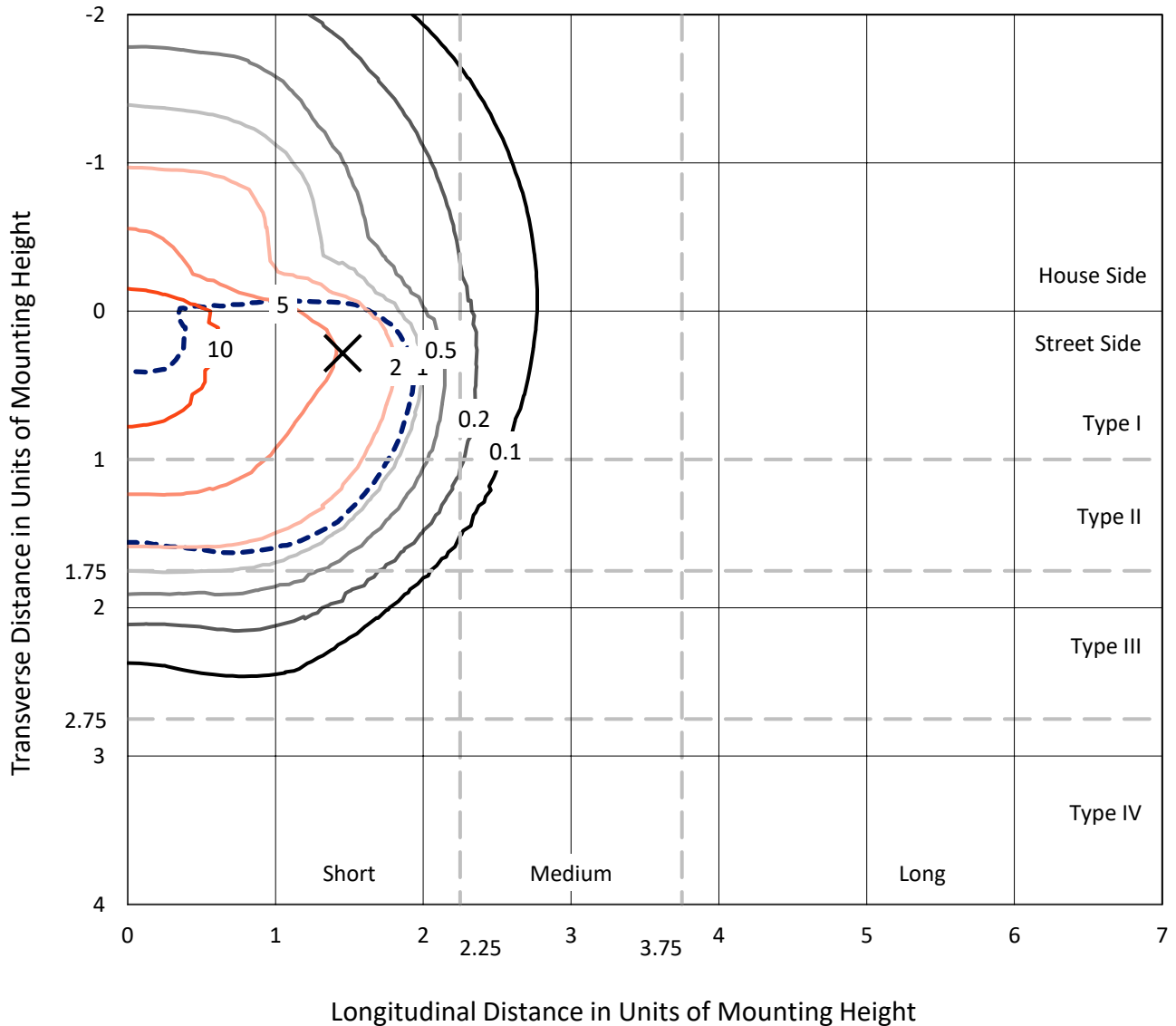
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

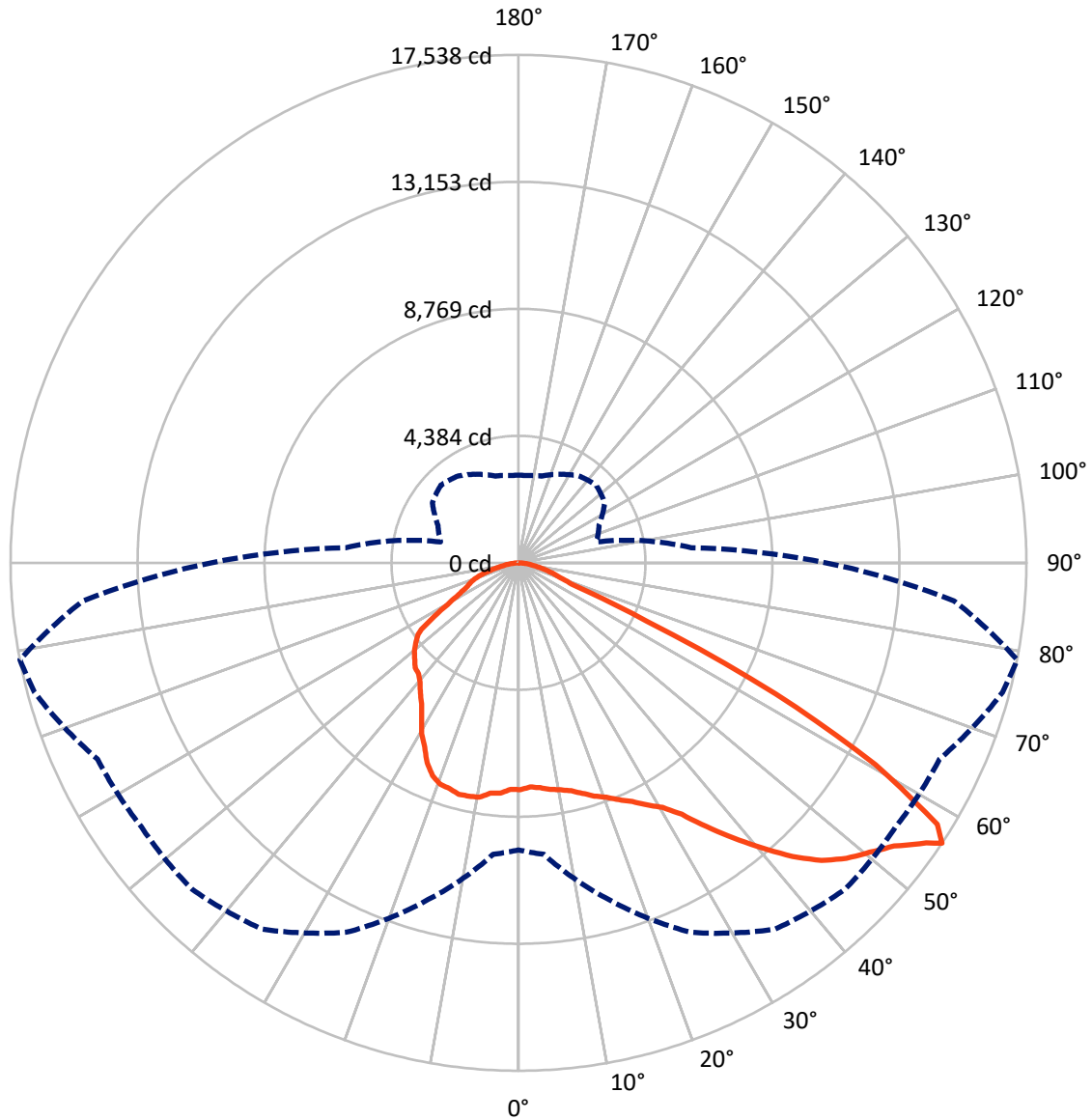
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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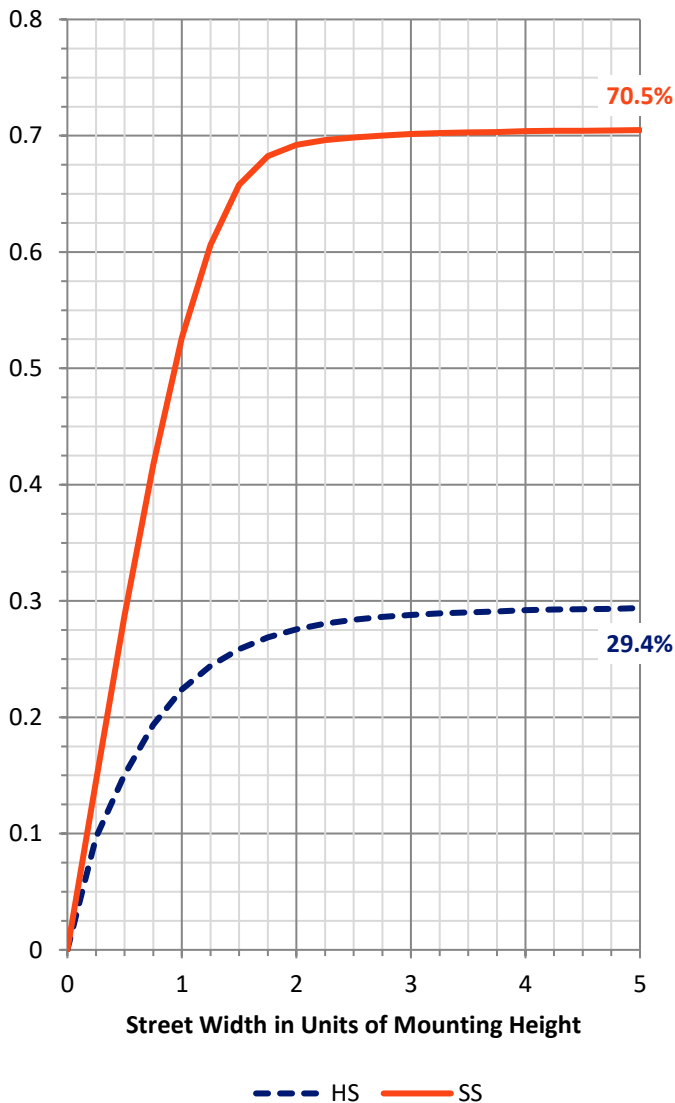
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9038.8   | 0.0    | 9038.8  |
|                    | % Fixture | 29.5     | 0.0    | 29.5    |
| <b>Street Side</b> | Lumens    | 21567.7  | 0.0    | 21567.7 |
|                    | % Fixture | 70.5     | 0.0    | 70.5    |
| <b>Total</b>       | Lumens    | 30606.5  | 0.0    | 30606.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 712.0   | 2.3       |
| 10°-20°   | 1948.5  | 6.4       |
| 20°-30°   | 3333.5  | 10.9      |
| 30°-40°   | 5109.0  | 16.7      |
| 40°-50°   | 6904.8  | 22.6      |
| 50°-60°   | 7930.4  | 25.9      |
| 60°-70°   | 3614.9  | 11.8      |
| 70°-80°   | 891.3   | 2.9       |
| 80°-90°   | 162.0   | 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°    | 30606.5 | 100.0     |
| 0°-180°   | 30606.5 | 100.0     |



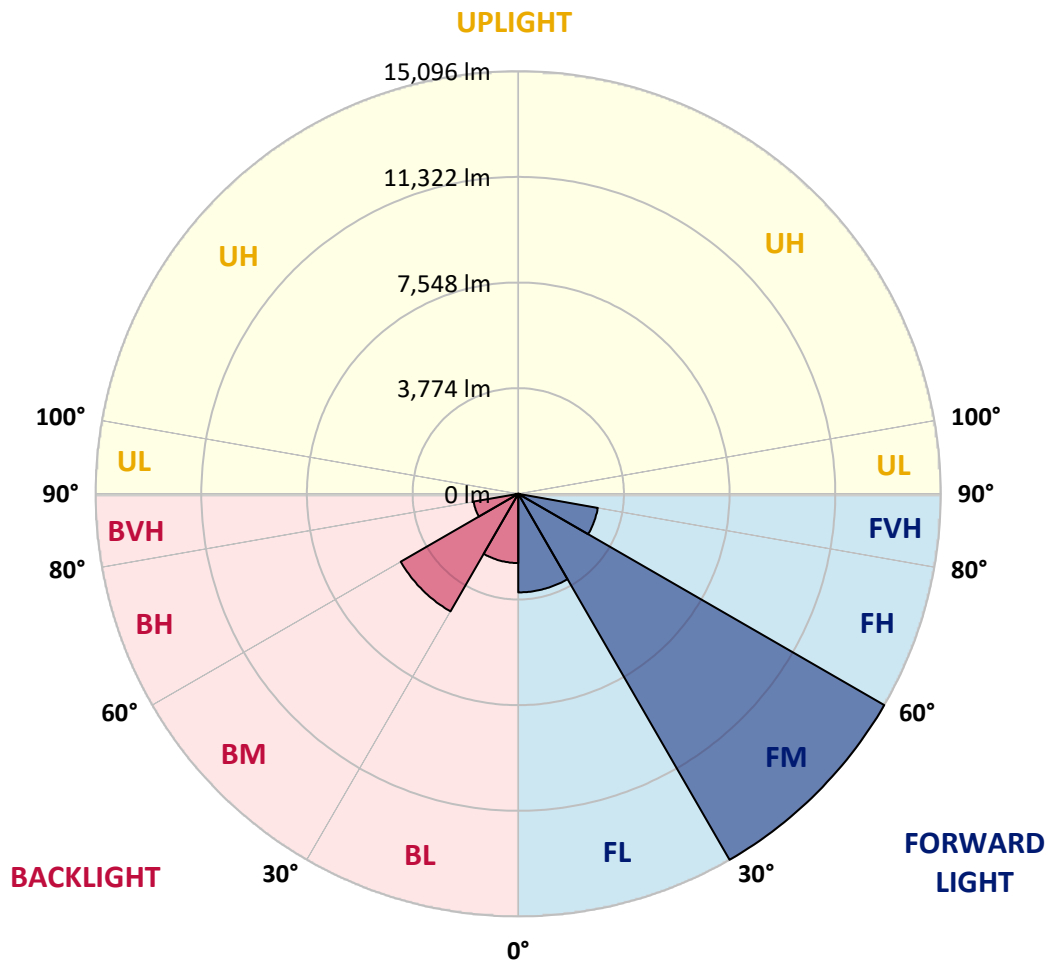
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3521.5  | 11.5      |                         |      |         |
| FM (30°-60°)   | 15096.0 | 49.3      |                         |      |         |
| FH (60°-80°)   | 2885.5  | 9.4       |                         |      | G2/5000 |
| FVH (80°-90°)  | 64.7    | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 2472.5  | 8.1       | B3/2500                 |      |         |
| BM (30°-60°)   | 4848.3  | 15.8      | B3/5000                 |      |         |
| BH (60°-80°)   | 1620.7  | 5.3       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 97.3    | 0.3       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 79°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7831.0  | 7831.0  | 7831.0  | 7831.0  | 7831.0  | 7831.0  | 7831.0  | 7831.0  | 7831.0  | 7831.0  | 7831.0  |
| 2.5°  | 7449.7  | 7430.7  | 7476.4  | 7510.7  | 7552.7  | 7606.1  | 7632.7  | 7648.0  | 7781.4  | 7747.1  | 7850.1  |
| 5°    | 7289.6  | 7240.1  | 7274.4  | 7301.1  | 7373.5  | 7438.3  | 7510.7  | 7625.1  | 7747.1  | 7800.5  | 7926.3  |
| 7.5°  | 7148.6  | 7121.8  | 7114.3  | 7133.3  | 7232.4  | 7316.3  | 7442.1  | 7609.9  | 7808.1  | 7895.8  | 7968.2  |
| 10°   | 6916.0  | 6877.9  | 6935.1  | 7060.9  | 7087.5  | 7263.0  | 7407.8  | 7648.0  | 7819.5  | 7972.1  | 8185.5  |
| 12.5° | 6813.0  | 6774.9  | 6786.4  | 6858.8  | 7045.6  | 7213.3  | 7384.9  | 7655.6  | 8017.8  | 8078.8  | 8364.8  |
| 15°   | 6977.0  | 6938.8  | 6950.3  | 6931.3  | 7110.4  | 7198.1  | 7468.8  | 7808.1  | 8155.1  | 8258.0  | 8563.0  |
| 17.5° | 7350.6  | 7354.5  | 7304.8  | 7263.0  | 7221.0  | 7407.8  | 7594.7  | 7899.6  | 8208.4  | 8467.7  | 8696.4  |
| 20°   | 8063.6  | 7937.8  | 7838.6  | 7602.2  | 7537.5  | 7617.5  | 7853.8  | 8147.4  | 8425.7  | 8639.3  | 8898.5  |
| 22.5° | 8612.6  | 8624.0  | 8482.9  | 8094.0  | 7953.0  | 7987.3  | 8189.4  | 8429.6  | 8734.5  | 8887.1  | 9184.5  |
| 25°   | 9409.4  | 9329.3  | 9176.8  | 8868.0  | 8551.5  | 8578.3  | 8727.0  | 8944.3  | 9028.1  | 9134.9  | 9459.0  |
| 27.5° | 10137.6 | 10160.5 | 9859.3  | 9569.5  | 9176.8  | 9100.5  | 9367.5  | 9405.6  | 9264.5  | 9466.5  | 9577.1  |
| 30°   | 10877.2 | 10858.2 | 10659.9 | 10320.6 | 9935.5  | 9950.8  | 10069.0 | 9882.2  | 9687.7  | 9798.2  | 9874.5  |
| 32.5° | 11643.6 | 11426.2 | 11418.6 | 11113.6 | 10820.1 | 10678.9 | 10534.1 | 10625.6 | 10324.4 | 10347.2 | 10274.8 |
| 35°   | 12257.4 | 12287.9 | 12112.5 | 11895.2 | 11750.3 | 11502.5 | 11106.0 | 11269.9 | 11212.7 | 11186.1 | 10873.5 |
| 37.5° | 12703.5 | 12585.2 | 12672.9 | 12600.5 | 12463.3 | 12154.5 | 11742.7 | 11899.0 | 11925.7 | 12055.3 | 11693.1 |
| 40°   | 13069.5 | 13019.9 | 13252.5 | 13290.6 | 13195.3 | 12528.0 | 11788.5 | 12253.5 | 12653.9 | 12936.0 | 12505.2 |
| 42.5° | 13244.8 | 13351.5 | 13595.6 | 13889.1 | 13675.7 | 12962.7 | 12024.8 | 12524.3 | 13416.4 | 13862.5 | 13275.4 |
| 45°   | 13481.2 | 13344.0 | 13706.1 | 14243.7 | 14247.5 | 13328.7 | 12253.5 | 12890.3 | 14011.1 | 14659.3 | 13801.5 |
| 47.5° | 13241.0 | 13309.7 | 13683.2 | 14365.7 | 14541.1 | 13713.8 | 12871.2 | 13408.7 | 14666.9 | 15242.6 | 14289.4 |
| 50°   | 12703.5 | 12840.7 | 13523.1 | 14232.2 | 14762.2 | 14121.7 | 13580.3 | 13969.2 | 15273.1 | 15711.6 | 14369.5 |
| 52.5° | 12143.0 | 12219.2 | 13286.8 | 14335.2 | 14861.3 | 14647.9 | 14529.6 | 14743.2 | 16012.7 | 16241.5 | 14468.6 |
| 55°   | 10618.0 | 10980.2 | 12505.2 | 14289.4 | 15345.6 | 15597.2 | 15505.7 | 15818.3 | 16851.5 | 17080.3 | 15010.1 |
| 56°   | 9912.6  | 10103.3 | 12036.2 | 14076.0 | 15440.8 | 15944.1 | 15898.3 | 16039.5 | 17297.6 | 17537.8 | 15093.9 |
| 57.5° | 8608.7  | 8624.0  | 10263.4 | 13130.4 | 15082.5 | 16047.0 | 16001.3 | 16111.9 | 17209.9 | 17046.0 | 14358.1 |
| 60°   | 5387.1  | 5623.5  | 6984.6  | 10099.5 | 12825.4 | 14888.1 | 15147.3 | 14259.0 | 14510.6 | 14163.6 | 11170.8 |
| 62.5° | 2790.8  | 2756.5  | 3660.0  | 5905.7  | 8513.4  | 10659.9 | 10900.1 | 10858.2 | 10469.3 | 9962.2  | 7297.3  |
| 65°   | 1391.6  | 1399.2  | 1913.9  | 2924.2  | 4361.6  | 5581.5  | 6252.6  | 6325.0  | 5291.8  | 4868.6  | 3461.8  |
| 67.5° | 1010.3  | 1048.5  | 1376.3  | 1788.1  | 2055.0  | 2299.0  | 2817.5  | 2764.1  | 2093.1  | 1990.1  | 1845.2  |
| 70°   | 785.4   | 819.7   | 1117.1  | 1364.9  | 1239.0  | 1239.0  | 1349.6  | 1395.4  | 1490.7  | 1532.6  | 1582.2  |
| 72.5° | 571.9   | 598.5   | 854.0   | 941.7   | 812.1   | 873.0   | 1010.3  | 1117.1  | 1216.2  | 1231.5  | 1288.7  |
| 75°   | 392.7   | 415.5   | 560.4   | 518.5   | 488.0   | 602.4   | 739.7   | 838.7   | 911.2   | 949.3   | 983.6   |
| 77.5° | 255.4   | 263.1   | 320.3   | 270.7   | 312.6   | 388.9   | 480.4   | 564.2   | 636.7   | 667.2   | 674.8   |
| 80°   | 114.4   | 125.8   | 137.3   | 171.6   | 217.3   | 278.3   | 343.1   | 411.8   | 457.5   | 468.9   | 491.8   |
| 82.5° | 64.8    | 64.8    | 83.8    | 122.0   | 160.1   | 202.1   | 247.8   | 297.4   | 350.8   | 362.2   | 358.4   |
| 85°   | 34.3    | 34.3    | 49.5    | 72.4    | 99.2    | 118.2   | 114.4   | 118.2   | 125.8   | 144.9   | 141.0   |
| 87.5° | 11.4    | 11.4    | 15.2    | 15.2    | 19.1    | 22.9    | 19.1    | 26.7    | 34.3    | 34.3    | 34.3    |
| 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°    | 7831.0  | 7831.0 | 7831.0 | 7831.0 | 7831.0 | 7831.0 | 7831.0 | 7831.0 | 7831.0 | 7831.0 | 7831.0 |
| 2.5°  | 7819.5  | 7853.8 | 7808.1 | 7907.3 | 7907.3 | 7888.2 | 7792.9 | 7823.4 | 7846.3 | 7846.3 | 7865.3 |
| 5°    | 7968.2  | 7956.8 | 7987.3 | 7869.2 | 7796.7 | 7770.0 | 7613.7 | 7537.5 | 7472.6 | 7468.8 | 7411.6 |
| 7.5°  | 8052.2  | 8021.6 | 8010.2 | 7922.5 | 7602.2 | 7407.8 | 7072.3 | 6877.9 | 6835.9 | 6687.2 | 6744.4 |
| 10°   | 8185.5  | 8242.7 | 8185.5 | 7709.0 | 7263.0 | 6816.9 | 6489.0 | 6187.7 | 6069.6 | 5974.3 | 5917.1 |
| 12.5° | 8460.0  | 8433.4 | 8101.7 | 7457.4 | 6832.1 | 6302.1 | 5814.2 | 5497.7 | 5379.5 | 5295.6 | 5288.0 |
| 15°   | 8692.7  | 8559.2 | 8052.2 | 7060.9 | 6161.1 | 5596.9 | 5196.5 | 4971.6 | 4918.2 | 4925.8 | 4960.1 |
| 17.5° | 8772.7  | 8681.2 | 7792.9 | 6649.1 | 5661.6 | 4998.2 | 4811.4 | 4777.1 | 4826.7 | 4883.9 | 4899.2 |
| 20°   | 8898.5  | 8753.6 | 7686.2 | 6088.7 | 5044.0 | 4624.7 | 4613.2 | 4735.2 | 4826.7 | 4910.6 | 4922.0 |
| 22.5° | 9161.6  | 8795.6 | 7339.2 | 5558.7 | 4620.8 | 4514.1 | 4624.7 | 4727.6 | 4868.6 | 4937.3 | 4876.3 |
| 25°   | 9237.8  | 8704.1 | 6851.2 | 4922.0 | 4353.9 | 4445.4 | 4563.6 | 4704.7 | 4803.8 | 4842.0 | 4868.6 |
| 27.5° | 9302.6  | 8563.0 | 6191.6 | 4498.8 | 4270.1 | 4441.7 | 4563.6 | 4681.8 | 4735.2 | 4769.5 | 4800.0 |
| 30°   | 9485.6  | 8521.1 | 5619.7 | 4216.7 | 4216.7 | 4365.4 | 4521.7 | 4552.2 | 4624.7 | 4666.5 | 4719.9 |
| 32.5° | 9577.1  | 8231.3 | 5032.5 | 4037.5 | 4163.3 | 4403.5 | 4414.9 | 4472.1 | 4476.0 | 4510.3 | 4453.1 |
| 35°   | 9817.3  | 8025.4 | 4487.4 | 3907.9 | 4186.2 | 4365.4 | 4422.6 | 4388.3 | 4201.5 | 4110.0 | 4129.0 |
| 37.5° | 9992.7  | 7922.5 | 4094.7 | 3892.7 | 4190.0 | 4407.3 | 4437.8 | 4178.6 | 3984.2 | 3831.6 | 3869.8 |
| 40°   | 10465.5 | 7667.1 | 3797.3 | 3865.9 | 4224.3 | 4453.1 | 4369.2 | 4087.1 | 3736.3 | 3580.0 | 3553.3 |
| 42.5° | 10827.7 | 7484.1 | 3610.5 | 3835.5 | 4251.0 | 4517.9 | 4334.9 | 3904.1 | 3545.7 | 3400.8 | 3438.9 |
| 45°   | 11247.0 | 7442.1 | 3511.3 | 3843.0 | 4296.8 | 4552.2 | 4293.0 | 3763.0 | 3381.7 | 3324.6 | 3313.1 |
| 47.5° | 11395.7 | 7140.9 | 3404.6 | 3778.3 | 4285.3 | 4540.7 | 4151.8 | 3656.2 | 3320.8 | 3328.3 | 3358.9 |
| 50°   | 11148.0 | 6832.1 | 3324.6 | 3644.8 | 4209.0 | 4437.8 | 3930.7 | 3515.2 | 3286.5 | 3381.7 | 3435.1 |
| 52.5° | 10831.5 | 6515.6 | 3160.6 | 3465.6 | 4052.8 | 4277.7 | 3827.8 | 3507.6 | 3252.1 | 3221.6 | 3233.1 |
| 55°   | 10926.8 | 6256.4 | 2931.9 | 3221.6 | 3801.2 | 3980.3 | 3713.4 | 3435.1 | 3168.2 | 3053.8 | 3092.0 |
| 56°   | 10618.0 | 5989.5 | 2783.2 | 3069.1 | 3629.6 | 3789.7 | 3656.2 | 3370.3 | 3099.6 | 3023.4 | 3023.4 |
| 57.5° | 9744.9  | 5093.6 | 2588.8 | 2825.1 | 3267.4 | 3458.0 | 3545.7 | 3332.2 | 3023.4 | 2889.9 | 2893.7 |
| 60°   | 7186.7  | 3621.9 | 2321.8 | 2489.6 | 2706.9 | 2859.4 | 3267.4 | 3225.4 | 2832.7 | 2741.2 | 2706.9 |
| 62.5° | 4430.2  | 2646.0 | 2131.2 | 2196.0 | 2306.6 | 2432.4 | 2851.8 | 2920.5 | 2630.6 | 2531.6 | 2508.7 |
| 65°   | 2482.0  | 2024.5 | 1986.4 | 2013.0 | 2066.4 | 2131.2 | 2367.6 | 2520.1 | 2321.8 | 2169.4 | 2161.7 |
| 67.5° | 1814.8  | 1810.9 | 1841.5 | 1864.3 | 1887.2 | 1887.2 | 1944.4 | 2005.4 | 1978.7 | 1856.7 | 1845.2 |
| 70°   | 1612.7  | 1624.1 | 1647.0 | 1650.8 | 1658.5 | 1631.8 | 1586.0 | 1567.0 | 1597.5 | 1521.2 | 1506.0 |
| 72.5° | 1330.5  | 1368.7 | 1395.4 | 1399.2 | 1357.3 | 1323.0 | 1261.9 | 1197.2 | 1174.3 | 1159.0 | 1155.2 |
| 75°   | 1021.7  | 1048.5 | 1059.9 | 1056.0 | 1040.8 | 991.3  | 918.8  | 854.0  | 812.1  | 766.3  | 789.2  |
| 77.5° | 690.0   | 728.2  | 747.2  | 747.2  | 724.4  | 648.2  | 613.8  | 564.2  | 522.3  | 472.7  | 480.4  |
| 80°   | 484.2   | 510.9  | 541.4  | 537.6  | 499.5  | 461.3  | 411.8  | 366.0  | 331.7  | 293.6  | 289.7  |
| 82.5° | 362.2   | 377.4  | 392.7  | 385.1  | 358.4  | 320.3  | 285.9  | 244.0  | 205.9  | 179.2  | 179.2  |
| 85°   | 129.6   | 141.0  | 171.6  | 179.2  | 194.4  | 194.4  | 163.9  | 137.3  | 110.6  | 91.5   | 91.5   |
| 87.5° | 38.1    | 38.1   | 42.0   | 42.0   | 38.1   | 42.0   | 34.3   | 38.1   | 42.0   | 26.7   | 26.7   |
| 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)