

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: P533206

Luminaire Tested: **GALN-SA8C-760-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533206  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8C-760-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 47618 lumens  
Efficiency: N/A  
Efficacy: 111.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

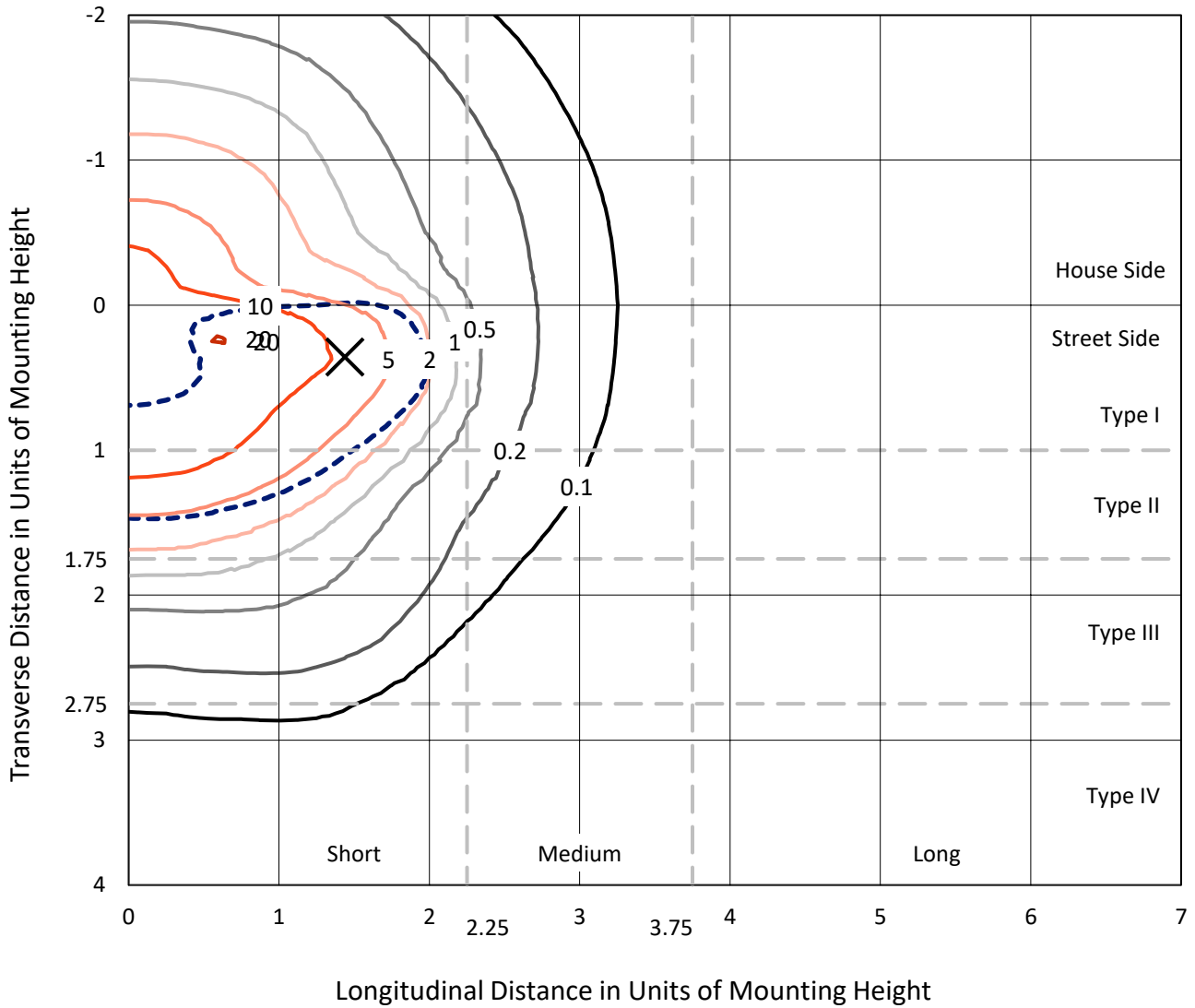
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

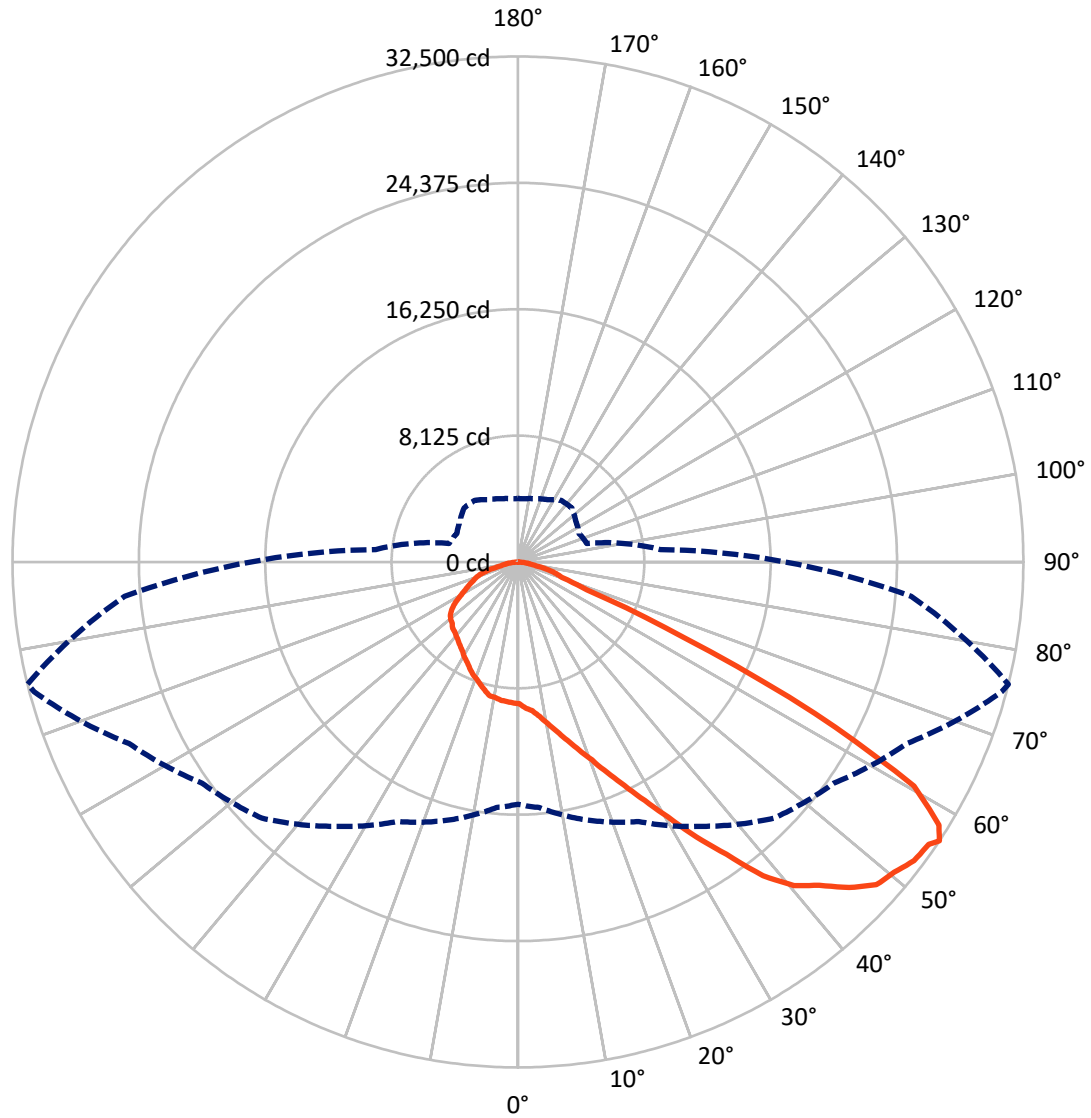
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 12803.0  | 0.0    | 12803.0 |
|                    | % Fixture | 26.9     | 0.0    | 26.9    |
| <b>Street Side</b> | Lumens    | 34814.9  | 0.0    | 34814.9 |
|                    | % Fixture | 73.1     | 0.0    | 73.1    |
| <b>Total</b>       | Lumens    | 47618.0  | 0.0    | 47618.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 903.5   | 1.9       |
| 10°-20°   | 2838.3  | 6.0       |
| 20°-30°   | 4963.9  | 10.4      |
| 30°-40°   | 7772.0  | 16.3      |
| 40°-50°   | 11306.0 | 23.7      |
| 50°-60°   | 12426.0 | 26.1      |
| 60°-70°   | 5546.4  | 11.6      |
| 70°-80°   | 1602.0  | 3.4       |
| 80°-90°   | 259.9   | 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°    | 47618.0 | 100.0     |
| 0°-180°   | 47618.0 | 100.0     |

**Coefficient of Utilization**



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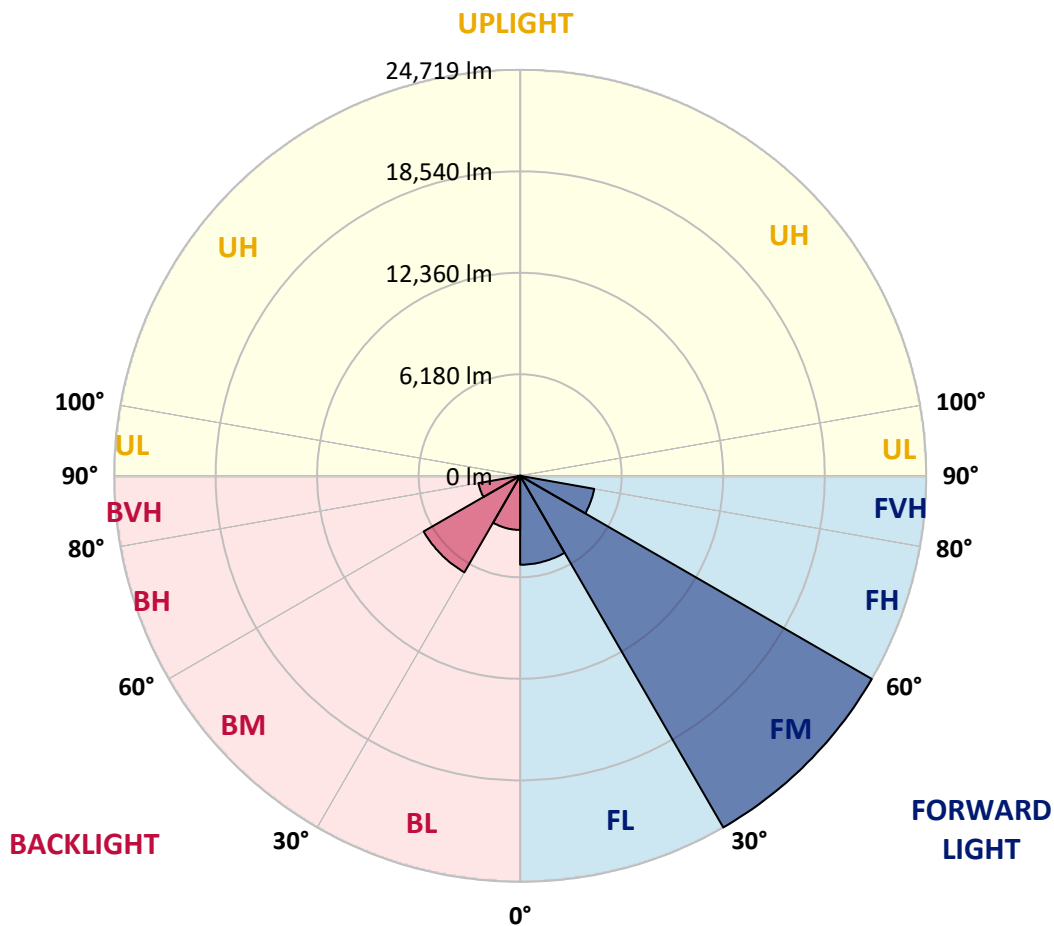
CATALOG NUMBER: GALN-SA8C-760-U-T2-GRSWH

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

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 5411.3  | 11.4      |                         |      |         |
| FM (30°-60°)   | 24719.4 | 51.9      |                         |      |         |
| FH (60°-80°)   | 4572.5  | 9.6       |                         |      | G2/5000 |
| FVH (80°-90°)  | 111.9   | 0.2       |                         |      | G2/225  |
| BL (0°-30°)    | 3294.5  | 6.9       | B4/5000                 |      |         |
| BM (30°-60°)   | 6784.6  | 14.2      | B4/8500                 |      |         |
| BH (60°-80°)   | 2576.0  | 5.4       | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 148.0   | 0.3       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 76°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 9111.1  | 9111.1  | 9111.1  | 9111.1  | 9111.1  | 9111.1  | 9111.1  | 9111.1  | 9111.1  | 9111.1  | 9111.1  |
| 2.5°  | 10037.0 | 9876.5  | 9864.2  | 9821.0  | 9845.7  | 9734.5  | 9617.3  | 9462.9  | 9302.5  | 9401.2  | 9166.6  |
| 5°    | 10740.7 | 10524.7 | 10611.1 | 10462.9 | 10481.5 | 10333.3 | 10092.6 | 9913.6  | 9716.0  | 9598.7  | 9432.1  |
| 7.5°  | 10987.6 | 11006.2 | 11067.9 | 11043.2 | 10919.7 | 10919.7 | 10759.2 | 10444.4 | 10098.7 | 10030.8 | 9753.1  |
| 10°   | 11321.0 | 11327.1 | 11259.2 | 11277.8 | 11450.6 | 11370.3 | 11228.4 | 11092.6 | 10648.1 | 10567.9 | 10074.1 |
| 12.5° | 11438.2 | 11327.1 | 11438.2 | 11537.0 | 11740.7 | 11851.8 | 11821.0 | 11722.2 | 11246.9 | 11191.3 | 10469.1 |
| 15°   | 11456.8 | 11388.9 | 11481.5 | 11703.7 | 11882.7 | 12351.8 | 12586.4 | 12518.5 | 11888.9 | 11895.0 | 10913.6 |
| 17.5° | 11370.3 | 11462.9 | 11500.0 | 11691.3 | 12104.9 | 12543.2 | 13222.2 | 13314.8 | 12796.3 | 12716.0 | 11475.3 |
| 20°   | 11487.6 | 11419.7 | 11469.1 | 11642.0 | 12191.3 | 12876.5 | 13765.4 | 14376.5 | 13648.1 | 13592.6 | 12055.5 |
| 22.5° | 11938.2 | 11845.7 | 11833.3 | 11944.4 | 12339.5 | 13049.4 | 14339.5 | 15438.2 | 14685.2 | 14716.0 | 12777.8 |
| 25°   | 12290.1 | 12339.5 | 12296.3 | 12290.1 | 12537.0 | 13308.6 | 15098.7 | 16703.7 | 16092.6 | 15913.5 | 13629.6 |
| 27.5° | 12895.0 | 13012.3 | 12925.9 | 13043.2 | 12987.6 | 13697.5 | 15641.9 | 18104.9 | 17611.1 | 17370.3 | 14401.2 |
| 30°   | 13734.5 | 13796.3 | 13716.0 | 13716.0 | 13549.4 | 14240.7 | 16135.8 | 19567.9 | 19364.2 | 19037.0 | 15308.6 |
| 32.5° | 14839.5 | 14932.1 | 14771.6 | 14679.0 | 14654.3 | 15049.4 | 17024.7 | 21012.3 | 21358.0 | 21080.2 | 16512.3 |
| 35°   | 16302.4 | 16246.9 | 16055.5 | 15969.1 | 15635.8 | 16290.1 | 18345.6 | 22672.8 | 23580.2 | 23086.4 | 17969.1 |
| 37.5° | 17592.6 | 17506.1 | 17493.8 | 17012.3 | 17092.6 | 17629.6 | 19469.1 | 23932.1 | 25734.5 | 25592.5 | 19506.1 |
| 40°   | 18796.3 | 18876.5 | 19006.1 | 18734.5 | 18611.1 | 19203.7 | 20777.7 | 24895.0 | 27407.4 | 27351.8 | 20691.3 |
| 42.5° | 20086.4 | 20012.3 | 20240.7 | 20012.3 | 19827.1 | 20666.6 | 22197.5 | 25561.7 | 28876.5 | 28419.7 | 21932.1 |
| 45°   | 21956.7 | 21722.2 | 21802.4 | 21820.9 | 21685.1 | 21993.8 | 22783.9 | 26043.2 | 29907.3 | 29858.0 | 22839.5 |
| 47.5° | 23518.5 | 23524.6 | 23388.8 | 23283.9 | 22870.3 | 23179.0 | 23438.2 | 26345.6 | 31092.5 | 31012.3 | 23191.3 |
| 50°   | 24098.7 | 24018.5 | 24413.5 | 24641.9 | 24666.6 | 24037.0 | 23950.6 | 26512.3 | 31716.0 | 31364.1 | 23543.2 |
| 52.5° | 22012.3 | 22086.4 | 22709.8 | 24067.9 | 24851.8 | 24919.7 | 24549.3 | 26858.0 | 31969.1 | 31895.0 | 23827.1 |
| 55°   | 17716.0 | 18074.0 | 19098.7 | 20666.6 | 22524.6 | 24567.9 | 25197.5 | 27216.0 | 32104.9 | 32043.1 | 25086.4 |
| 56°   | 15574.0 | 15851.8 | 17185.2 | 18413.5 | 20746.9 | 23290.1 | 24790.1 | 27598.7 | 32209.8 | 32499.9 | 25382.7 |
| 57.5° | 12537.0 | 12858.0 | 13814.8 | 15209.8 | 17962.9 | 20858.0 | 23666.6 | 27129.6 | 31802.4 | 31913.5 | 25598.7 |
| 60°   | 7839.5  | 7870.4  | 9018.5  | 9938.3  | 11876.5 | 14703.7 | 18061.7 | 23604.9 | 29432.0 | 29271.5 | 22993.8 |
| 62.5° | 5142.0  | 5148.1  | 6191.3  | 6944.4  | 7827.1  | 8475.3  | 10629.6 | 15654.3 | 21716.0 | 21432.1 | 16370.3 |
| 65°   | 3611.1  | 3691.4  | 4500.0  | 5506.2  | 5864.2  | 5524.7  | 5456.8  | 8253.1  | 12129.6 | 11722.2 | 8796.3  |
| 67.5° | 2642.0  | 2648.1  | 3364.2  | 4444.4  | 4963.0  | 4203.7  | 3413.6  | 4030.9  | 4802.5  | 4790.1  | 4074.1  |
| 70°   | 1746.9  | 1821.0  | 2370.4  | 3321.0  | 3913.6  | 3376.5  | 2790.1  | 2882.7  | 3055.5  | 3055.5  | 3030.9  |
| 72.5° | 1018.5  | 1086.4  | 1450.6  | 2104.9  | 2197.5  | 2111.1  | 2209.9  | 2469.1  | 2580.2  | 2574.1  | 2543.2  |
| 75°   | 580.2   | 611.1   | 691.4   | 876.5   | 1092.6  | 1290.1  | 1623.5  | 1870.4  | 1981.5  | 2049.4  | 1969.1  |
| 77.5° | 339.5   | 358.0   | 407.4   | 500.0   | 567.9   | 697.5   | 882.7   | 1055.6  | 1203.7  | 1185.2  | 1197.5  |
| 80°   | 179.0   | 179.0   | 228.4   | 296.3   | 395.1   | 493.8   | 586.4   | 685.2   | 765.4   | 783.9   | 802.5   |
| 82.5° | 104.9   | 111.1   | 148.1   | 216.0   | 284.0   | 351.9   | 450.6   | 518.5   | 592.6   | 598.8   | 611.1   |
| 85°   | 55.6    | 61.7    | 92.6    | 142.0   | 191.4   | 216.0   | 222.2   | 209.9   | 228.4   | 216.0   | 246.9   |
| 87.5° | 18.5    | 18.5    | 30.9    | 24.7    | 24.7    | 30.9    | 37.0    | 37.0    | 49.4    | 49.4    | 49.4    |
| 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°    | 9111.1  | 9111.1 | 9111.1 | 9111.1 | 9111.1 | 9111.1 | 9111.1 | 9111.1 | 9111.1 | 9111.1 | 9111.1 |
| 2.5°  | 9160.5  | 9160.5 | 9055.5 | 8858.0 | 8827.1 | 8746.9 | 8672.8 | 8666.6 | 8611.1 | 8561.7 | 8537.0 |
| 5°    | 9333.3  | 9142.0 | 8987.6 | 8808.6 | 8598.7 | 8500.0 | 8388.9 | 8265.4 | 8216.0 | 8265.4 | 8259.2 |
| 7.5°  | 9530.8  | 9370.4 | 8907.4 | 8574.1 | 8333.3 | 8234.6 | 8111.1 | 7981.5 | 7993.8 | 7993.8 | 7907.4 |
| 10°   | 9722.2  | 9506.2 | 8765.4 | 8339.5 | 7987.6 | 7913.6 | 7845.7 | 7895.0 | 7956.8 | 7969.1 | 7913.6 |
| 12.5° | 10043.2 | 9555.5 | 8697.5 | 8104.9 | 7882.7 | 7722.2 | 7765.4 | 7901.2 | 8030.8 | 7993.8 | 8037.0 |
| 15°   | 10283.9 | 9598.7 | 8388.9 | 7864.2 | 7586.4 | 7660.5 | 7814.8 | 7907.4 | 8123.4 | 8098.7 | 8142.0 |
| 17.5° | 10518.5 | 9623.4 | 8086.4 | 7543.2 | 7425.9 | 7629.6 | 7746.9 | 8012.3 | 8080.2 | 8228.4 | 8283.9 |
| 20°   | 11000.0 | 9672.8 | 7777.8 | 7345.7 | 7308.6 | 7543.2 | 7746.9 | 7870.4 | 8018.5 | 8148.1 | 8148.1 |
| 22.5° | 11246.9 | 9648.1 | 7574.1 | 7086.4 | 7203.7 | 7351.8 | 7537.0 | 7746.9 | 7746.9 | 7870.4 | 7876.5 |
| 25°   | 11555.5 | 9549.4 | 7253.1 | 6962.9 | 7049.4 | 7191.3 | 7401.2 | 7327.1 | 7407.4 | 7407.4 | 7506.2 |
| 27.5° | 11907.4 | 9339.5 | 6975.3 | 6740.7 | 6913.6 | 7067.9 | 7098.8 | 7049.4 | 6956.8 | 6944.4 | 6907.4 |
| 30°   | 12191.3 | 9080.2 | 6771.6 | 6666.7 | 6808.6 | 6895.0 | 6796.3 | 6691.3 | 6530.9 | 6518.5 | 6432.1 |
| 32.5° | 12580.2 | 8759.2 | 6518.5 | 6481.5 | 6642.0 | 6648.1 | 6617.3 | 6456.8 | 6222.2 | 6123.4 | 6024.7 |
| 35°   | 13234.5 | 8574.1 | 6327.1 | 6382.7 | 6432.1 | 6413.6 | 6358.0 | 6185.2 | 5950.6 | 5907.4 | 5870.4 |
| 37.5° | 13716.0 | 8438.3 | 6129.6 | 6197.5 | 6240.7 | 6265.4 | 6098.8 | 5907.4 | 5913.6 | 5827.1 | 5802.5 |
| 40°   | 14259.2 | 8351.8 | 5969.1 | 6000.0 | 6006.2 | 6086.4 | 5882.7 | 5790.1 | 5833.3 | 5777.8 | 5814.8 |
| 42.5° | 14956.8 | 8376.5 | 5802.5 | 5777.8 | 5895.0 | 5864.2 | 5765.4 | 5642.0 | 5666.7 | 5500.0 | 5524.7 |
| 45°   | 15327.1 | 8543.2 | 5703.7 | 5592.6 | 5722.2 | 5716.0 | 5586.4 | 5469.1 | 5321.0 | 5000.0 | 5012.3 |
| 47.5° | 15574.0 | 8586.4 | 5469.1 | 5395.1 | 5530.9 | 5611.1 | 5463.0 | 5191.3 | 4981.5 | 4753.1 | 4697.5 |
| 50°   | 15827.1 | 8666.6 | 5358.0 | 5203.7 | 5259.2 | 5450.6 | 5265.4 | 5006.2 | 4802.5 | 4598.8 | 4629.6 |
| 52.5° | 16049.4 | 8821.0 | 5142.0 | 4913.6 | 5012.3 | 5222.2 | 5123.4 | 4808.6 | 4586.4 | 4419.7 | 4370.4 |
| 55°   | 17037.0 | 9166.6 | 4777.8 | 4481.5 | 4716.0 | 4981.5 | 4925.9 | 4543.2 | 4302.5 | 4216.0 | 4203.7 |
| 56°   | 17191.3 | 9179.0 | 4586.4 | 4333.3 | 4549.4 | 4901.2 | 4833.3 | 4425.9 | 4209.9 | 4074.1 | 4080.2 |
| 57.5° | 17216.0 | 9030.8 | 4314.8 | 4197.5 | 4382.7 | 4783.9 | 4697.5 | 4333.3 | 4037.0 | 3913.6 | 3876.5 |
| 60°   | 15148.1 | 7049.4 | 3975.3 | 3901.2 | 4117.3 | 4425.9 | 4395.1 | 4080.2 | 3746.9 | 3604.9 | 3672.8 |
| 62.5° | 10327.1 | 5166.7 | 3709.9 | 3697.5 | 3808.6 | 4111.1 | 4030.9 | 3746.9 | 3469.1 | 3376.5 | 3333.3 |
| 65°   | 6012.3  | 3919.7 | 3450.6 | 3401.2 | 3493.8 | 3654.3 | 3709.9 | 3413.6 | 3123.5 | 3061.7 | 3043.2 |
| 67.5° | 3549.4  | 3240.7 | 3117.3 | 3037.0 | 3006.2 | 3104.9 | 3148.1 | 2975.3 | 2685.2 | 2598.8 | 2672.8 |
| 70°   | 2969.1  | 2882.7 | 2888.9 | 2753.1 | 2679.0 | 2611.1 | 2574.1 | 2419.7 | 2179.0 | 2067.9 | 2037.0 |
| 72.5° | 2561.7  | 2524.7 | 2500.0 | 2376.5 | 2308.6 | 2154.3 | 1993.8 | 1839.5 | 1660.5 | 1567.9 | 1574.1 |
| 75°   | 1956.8  | 1944.4 | 1956.8 | 1895.1 | 1777.8 | 1654.3 | 1506.2 | 1308.6 | 1172.8 | 1055.6 | 1080.2 |
| 77.5° | 1166.7  | 1203.7 | 1222.2 | 1197.5 | 1148.1 | 1037.0 | 944.4  | 814.8  | 685.2  | 592.6  | 580.2  |
| 80°   | 802.5   | 833.3  | 864.2  | 833.3  | 783.9  | 703.7  | 604.9  | 506.2  | 413.6  | 364.2  | 351.9  |
| 82.5° | 611.1   | 642.0  | 660.5  | 629.6  | 567.9  | 481.5  | 413.6  | 345.7  | 271.6  | 222.2  | 209.9  |
| 85°   | 222.2   | 253.1  | 246.9  | 296.3  | 321.0  | 308.6  | 265.4  | 203.7  | 154.3  | 111.1  | 104.9  |
| 87.5° | 61.7    | 55.6   | 61.7   | 61.7   | 61.7   | 55.6   | 49.4   | 49.4   | 49.4   | 30.9   | 24.7   |
| 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)