

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: P531793

Luminaire Tested: **GALN-SA7A-760-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531793  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7A-760-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18592 lumens  
Efficiency: N/A  
Efficacy: 86.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

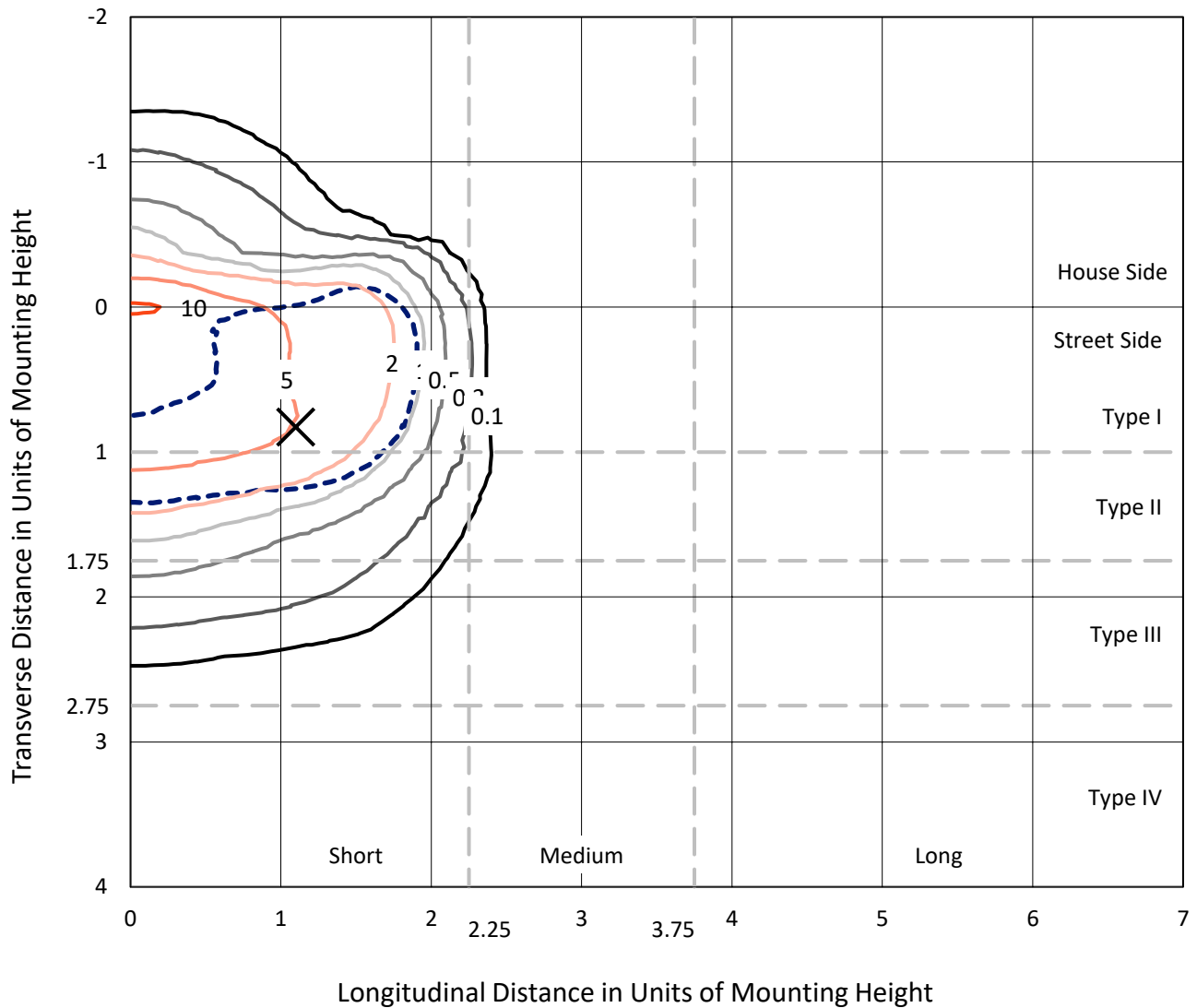
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

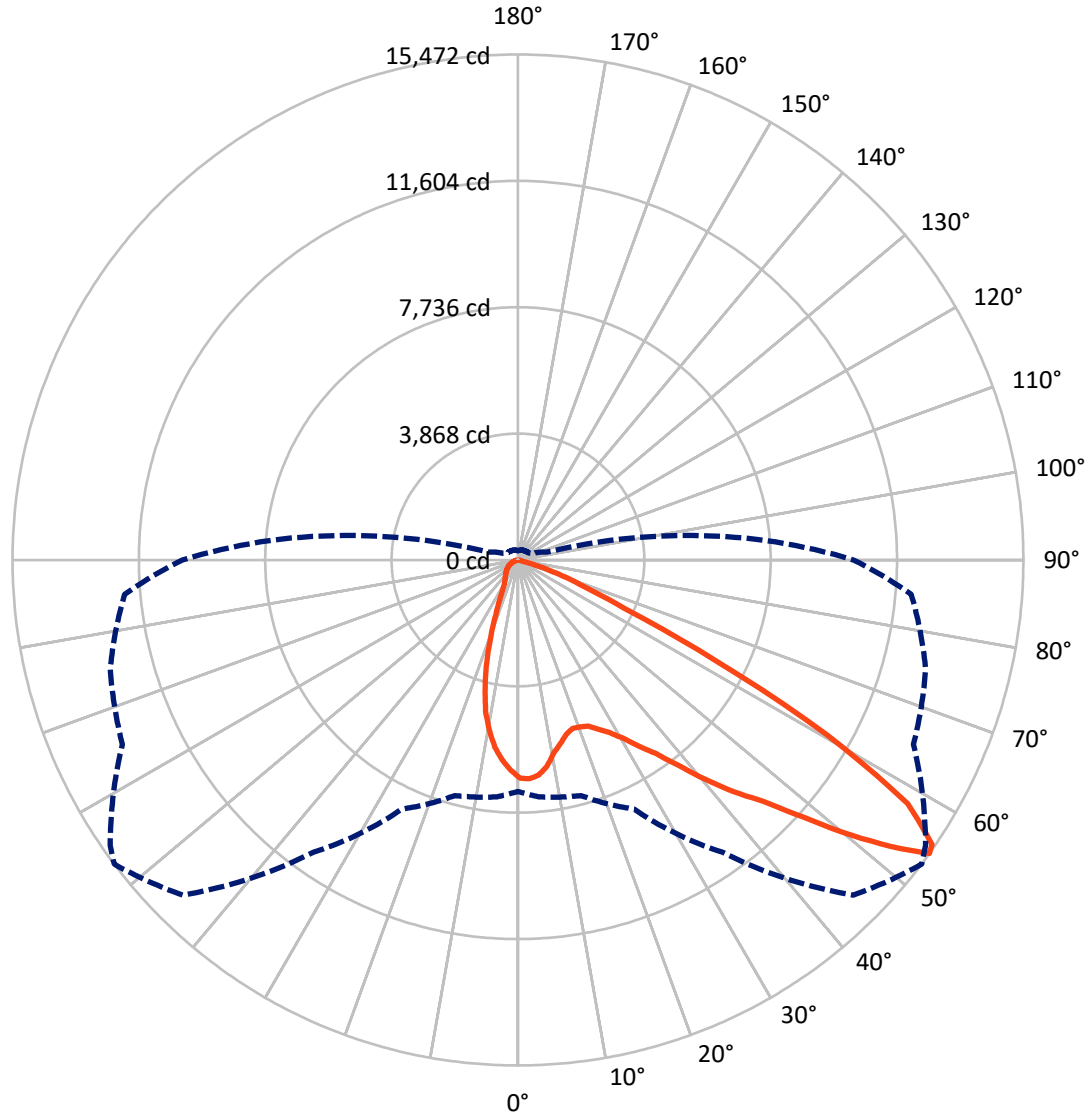
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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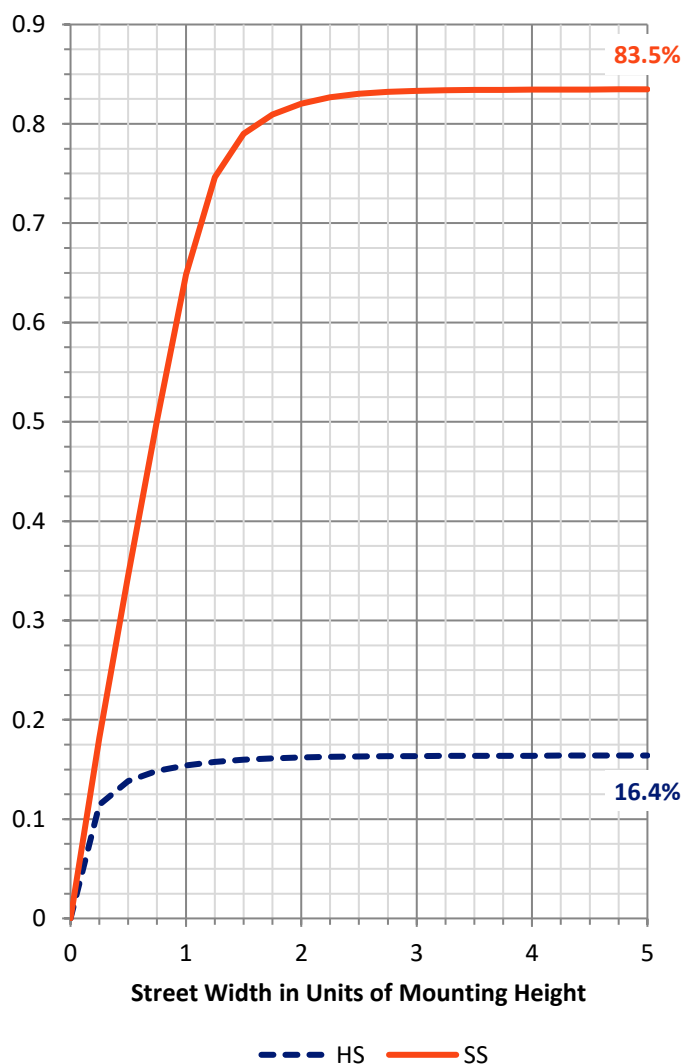
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3076.1   | 0.0    | 3076.1  |
|                    | % Fixture | 16.5     | 0.0    | 16.5    |
| <b>Street Side</b> | Lumens    | 15515.9  | 0.0    | 15515.9 |
|                    | % Fixture | 83.5     | 0.0    | 83.5    |
| <b>Total</b>       | Lumens    | 18592.0  | 0.0    | 18592.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 573.0   | 3.1       |
| 10°-20°   | 1313.6  | 7.1       |
| 20°-30°   | 1866.9  | 10.0      |
| 30°-40°   | 2881.1  | 15.5      |
| 40°-50°   | 4517.3  | 24.3      |
| 50°-60°   | 5247.5  | 28.2      |
| 60°-70°   | 1982.8  | 10.7      |
| 70°-80°   | 188.6   | 1.0       |
| 80°-90°   | 21.2    | 0.1       |
| 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°    | 18592.0 | 100.0     |
| 0°-180°   | 18592.0 | 100.0     |

**Coefficient of Utilization**



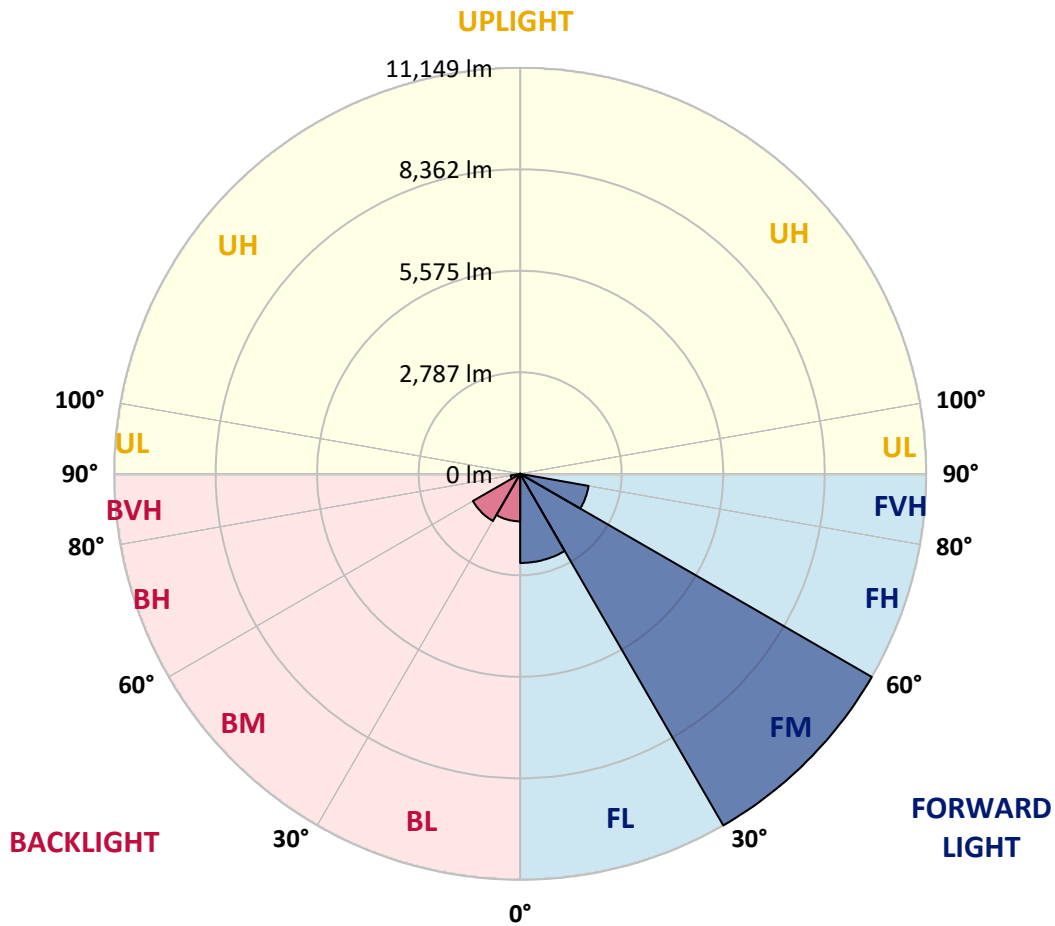
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2448.1  | 13.2      |                         |      |         |
| FM (30°-60°)   | 11149.0 | 60.0      |                         |      |         |
| FH (60°-80°)   | 1907.8  | 10.3      |                         |      | G2/5000 |
| FVH (80°-90°)  | 11.0    | 0.1       |                         |      | G1/100  |
| BL (0°-30°)    | 1305.4  | 7.0       | B3/2500                 |      |         |
| BM (30°-60°)   | 1496.9  | 8.1       | B2/2500                 |      |         |
| BH (60°-80°)   | 263.6   | 1.4       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 10.3    | 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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 53°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6677.9  | 6677.9  | 6677.9  | 6677.9  | 6677.9  | 6677.9  | 6677.9  | 6677.9  | 6677.9  | 6677.9  | 6677.9  |
| 2.5°  | 6643.3  | 6584.4  | 6643.3  | 6650.2  | 6691.8  | 6729.9  | 6705.6  | 6761.1  | 6729.9  | 6695.3  | 6684.9  |
| 5°    | 6106.4  | 6186.1  | 6189.6  | 6314.2  | 6286.5  | 6515.1  | 6615.6  | 6587.9  | 6757.6  | 6747.2  | 6723.0  |
| 7.5°  | 5625.0  | 5593.8  | 5635.4  | 5780.8  | 5964.4  | 6227.7  | 6373.1  | 6369.7  | 6612.1  | 6785.3  | 6768.0  |
| 10°   | 5178.2  | 5174.7  | 5261.3  | 5375.6  | 5531.5  | 5808.6  | 6009.4  | 6109.9  | 6487.4  | 6750.7  | 6788.8  |
| 12.5° | 4876.8  | 4863.0  | 4956.5  | 5050.0  | 5295.9  | 5510.7  | 5767.0  | 5815.5  | 6248.4  | 6629.4  | 6691.8  |
| 15°   | 4679.4  | 4710.6  | 4717.5  | 4897.6  | 5053.5  | 5337.5  | 5538.4  | 5638.8  | 6137.6  | 6532.5  | 6771.5  |
| 17.5° | 4644.8  | 4686.3  | 4689.8  | 4838.7  | 5005.0  | 5244.0  | 5420.6  | 5555.7  | 6044.1  | 6581.0  | 6774.9  |
| 20°   | 4714.0  | 4689.8  | 4710.6  | 4804.1  | 4966.9  | 5195.5  | 5451.8  | 5496.8  | 6012.9  | 6605.2  | 6813.0  |
| 22.5° | 4911.5  | 4904.5  | 4852.6  | 4928.8  | 5043.1  | 5282.1  | 5524.5  | 5593.8  | 6103.0  | 6729.9  | 6844.2  |
| 25°   | 5129.7  | 5167.8  | 5119.3  | 5108.9  | 5188.6  | 5424.1  | 5746.2  | 5836.3  | 6404.3  | 6955.0  | 6941.2  |
| 27.5° | 5538.4  | 5500.3  | 5500.3  | 5451.8  | 5431.0  | 5545.3  | 5985.2  | 6134.1  | 6740.3  | 7246.0  | 7052.0  |
| 30°   | 5929.8  | 5971.3  | 5940.2  | 5957.5  | 5818.9  | 5808.6  | 6324.6  | 6508.2  | 7336.0  | 7689.3  | 7287.5  |
| 32.5° | 6549.8  | 6494.4  | 6546.3  | 6501.3  | 6317.7  | 6130.7  | 6785.3  | 6975.8  | 8056.5  | 8198.5  | 7640.8  |
| 35°   | 7065.9  | 7041.6  | 7263.3  | 7256.4  | 6958.5  | 6774.9  | 7273.7  | 7557.7  | 8558.7  | 8808.1  | 8056.5  |
| 37.5° | 7800.2  | 7755.1  | 8008.0  | 8129.2  | 7862.5  | 7588.9  | 7973.3  | 8302.4  | 9026.3  | 9296.5  | 8482.5  |
| 40°   | 8555.2  | 8669.5  | 9009.0  | 9209.9  | 8925.8  | 8562.2  | 8828.9  | 8929.3  | 9338.0  | 9615.1  | 8773.4  |
| 42.5° | 9511.2  | 9677.5  | 10023.8 | 10197.0 | 10172.8 | 9777.9  | 9698.2  | 9694.8  | 9563.2  | 9525.1  | 8988.2  |
| 45°   | 10429.1 | 10366.7 | 10900.1 | 11277.7 | 11582.5 | 11468.2 | 10536.4 | 10432.5 | 9919.9  | 9660.1  | 9043.6  |
| 47.5° | 10830.9 | 10810.1 | 11173.8 | 11845.7 | 12884.8 | 13026.8 | 11755.7 | 11353.9 | 10522.6 | 10228.2 | 9344.9  |
| 50°   | 10311.3 | 10418.7 | 10778.9 | 11523.6 | 13116.9 | 14201.0 | 13252.0 | 12711.6 | 11225.7 | 10920.9 | 10058.5 |
| 52.5° | 8614.1  | 8686.9  | 9029.8  | 9975.3  | 12327.2 | 14893.7 | 14685.9 | 14374.2 | 12517.7 | 12012.0 | 11301.9 |
| 54°   | 7083.2  | 7277.1  | 7464.2  | 8413.2  | 10920.9 | 14509.3 | 15472.2 | 15233.2 | 13359.3 | 12919.4 | 12084.7 |
| 55°   | 6168.8  | 6283.1  | 6418.2  | 7363.7  | 9947.6  | 13858.1 | 15382.1 | 15402.9 | 13923.9 | 13203.5 | 12611.2 |
| 57.5° | 4506.2  | 4585.9  | 4447.3  | 4866.4  | 6830.3  | 11253.4 | 14069.4 | 14630.5 | 14685.9 | 13629.5 | 12933.3 |
| 60°   | 3442.9  | 3477.5  | 3321.6  | 3387.5  | 4246.4  | 7724.0  | 10882.8 | 11558.2 | 13248.5 | 11911.5 | 10955.6 |
| 62.5° | 2670.5  | 2677.4  | 2673.9  | 2788.2  | 2926.8  | 4544.3  | 6806.1  | 7405.3  | 9133.7  | 8458.3  | 7439.9  |
| 65°   | 1967.4  | 1936.2  | 1991.6  | 2338.0  | 2497.3  | 2857.5  | 3584.9  | 4021.3  | 4963.4  | 4191.0  | 2996.1  |
| 67.5° | 1274.6  | 1285.0  | 1340.4  | 1738.8  | 2140.5  | 2192.5  | 2206.4  | 2171.7  | 2175.2  | 1198.4  | 751.6   |
| 70°   | 765.5   | 782.8   | 765.5   | 983.7   | 1530.9  | 1572.5  | 1437.4  | 1402.8  | 1094.5  | 284.0   | 280.6   |
| 72.5° | 453.7   | 429.5   | 384.5   | 422.6   | 637.3   | 762.0   | 685.8   | 682.3   | 429.5   | 166.3   | 166.3   |
| 75°   | 190.5   | 173.2   | 142.0   | 128.2   | 169.7   | 162.8   | 162.8   | 145.5   | 114.3   | 110.8   | 103.9   |
| 77.5° | 38.1    | 38.1    | 27.7    | 31.2    | 41.6    | 48.5    | 58.9    | 58.9    | 69.3    | 69.3    | 65.8    |
| 80°   | 0.0     | 3.5     | 10.4    | 20.8    | 31.2    | 45.0    | 52.0    | 52.0    | 58.9    | 58.9    | 48.5    |
| 82.5° | 0.0     | 3.5     | 10.4    | 20.8    | 27.7    | 41.6    | 52.0    | 52.0    | 58.9    | 62.3    | 52.0    |
| 85°   | 0.0     | 3.5     | 10.4    | 17.3    | 27.7    | 34.6    | 34.6    | 31.2    | 24.2    | 20.8    | 13.9    |
| 87.5° | 0.0     | 0.0     | 3.5     | 6.9     | 3.5     | 6.9     | 6.9     | 6.9     | 6.9     | 6.9     | 6.9     |
| 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°    | 6677.9  | 6677.9 | 6677.9 | 6677.9 | 6677.9 | 6677.9 | 6677.9 | 6677.9 | 6677.9 | 6677.9 | 6677.9 |
| 2.5°  | 6709.1  | 6705.6 | 6622.5 | 6487.4 | 6456.3 | 6342.0 | 6328.1 | 6258.8 | 6296.9 | 6168.8 | 6154.9 |
| 5°    | 6653.7  | 6612.1 | 6511.7 | 6425.1 | 6172.2 | 5992.1 | 5850.1 | 5676.9 | 5576.5 | 5593.8 | 5528.0 |
| 7.5°  | 6733.4  | 6626.0 | 6449.3 | 6148.0 | 5839.7 | 5524.5 | 5354.8 | 5001.5 | 4873.4 | 4682.9 | 4655.2 |
| 10°   | 6650.2  | 6570.6 | 6296.9 | 5798.2 | 5372.1 | 4918.4 | 4520.1 | 4128.7 | 3830.8 | 3702.7 | 3674.9 |
| 12.5° | 6643.3  | 6504.8 | 6047.5 | 5493.4 | 4876.8 | 4225.7 | 3647.2 | 3158.9 | 2864.4 | 2698.2 | 2660.1 |
| 15°   | 6535.9  | 6369.7 | 5767.0 | 5022.3 | 4170.2 | 3359.7 | 2729.4 | 2258.3 | 2033.2 | 1936.2 | 1963.9 |
| 17.5° | 6546.3  | 6296.9 | 5486.4 | 4523.5 | 3474.0 | 2466.1 | 1863.4 | 1621.0 | 1562.1 | 1586.4 | 1586.4 |
| 20°   | 6535.9  | 6134.1 | 5147.0 | 3948.6 | 2660.1 | 1711.0 | 1368.1 | 1281.6 | 1319.7 | 1395.9 | 1378.5 |
| 22.5° | 6480.5  | 6057.9 | 4835.3 | 3342.4 | 1957.0 | 1267.7 | 1098.0 | 1101.4 | 1160.3 | 1253.8 | 1274.6 |
| 25°   | 6522.1  | 5888.2 | 4440.4 | 2729.4 | 1427.0 | 1011.4 | 952.5  | 976.8  | 1039.1 | 1108.4 | 1122.2 |
| 27.5° | 6490.9  | 5767.0 | 4028.2 | 2119.8 | 1042.6 | 869.4  | 865.9  | 893.6  | 921.3  | 973.3  | 973.3  |
| 30°   | 6525.5  | 5656.2 | 3623.0 | 1576.0 | 859.0  | 796.6  | 782.8  | 803.6  | 831.3  | 841.7  | 838.2  |
| 32.5° | 6653.7  | 5573.0 | 3155.4 | 1177.6 | 758.5  | 727.4  | 727.4  | 727.4  | 723.9  | 737.8  | 741.2  |
| 35°   | 6934.2  | 5586.9 | 2743.2 | 910.9  | 692.7  | 668.5  | 658.1  | 644.2  | 637.3  | 644.2  | 647.7  |
| 37.5° | 7239.0  | 5580.0 | 2317.2 | 775.9  | 644.2  | 623.5  | 599.2  | 578.4  | 575.0  | 581.9  | 571.5  |
| 40°   | 7374.1  | 5645.8 | 1922.3 | 696.2  | 599.2  | 575.0  | 536.9  | 519.5  | 523.0  | 529.9  | 523.0  |
| 42.5° | 7557.7  | 5666.5 | 1666.0 | 633.8  | 557.6  | 519.5  | 495.3  | 474.5  | 471.1  | 481.4  | 478.0  |
| 45°   | 7554.2  | 5548.8 | 1395.9 | 599.2  | 519.5  | 478.0  | 446.8  | 429.5  | 429.5  | 436.4  | 439.9  |
| 47.5° | 7775.9  | 5531.5 | 1198.4 | 568.0  | 491.8  | 450.3  | 412.2  | 398.3  | 394.9  | 394.9  | 387.9  |
| 50°   | 8292.0  | 5773.9 | 1046.0 | 533.4  | 457.2  | 419.1  | 387.9  | 370.6  | 356.8  | 349.8  | 346.4  |
| 52.5° | 9299.9  | 6529.0 | 928.3  | 491.8  | 419.1  | 387.9  | 360.2  | 346.4  | 329.0  | 311.7  | 308.3  |
| 54°   | 10276.7 | 7308.3 | 921.3  | 457.2  | 387.9  | 367.1  | 342.9  | 336.0  | 315.2  | 290.9  | 284.0  |
| 55°   | 10716.6 | 7762.1 | 945.6  | 429.5  | 367.1  | 353.3  | 332.5  | 325.6  | 304.8  | 277.1  | 273.6  |
| 57.5° | 11080.2 | 7938.7 | 931.7  | 356.8  | 332.5  | 329.0  | 311.7  | 301.3  | 277.1  | 239.0  | 232.1  |
| 60°   | 8918.9  | 6002.5 | 668.5  | 315.2  | 304.8  | 297.9  | 284.0  | 277.1  | 245.9  | 204.4  | 200.9  |
| 62.5° | 5635.4  | 3453.3 | 426.0  | 277.1  | 266.7  | 256.3  | 239.0  | 232.1  | 204.4  | 162.8  | 152.4  |
| 65°   | 2400.3  | 1430.5 | 287.5  | 245.9  | 228.6  | 211.3  | 197.4  | 187.0  | 162.8  | 121.2  | 117.8  |
| 67.5° | 623.5   | 509.2  | 239.0  | 214.7  | 190.5  | 166.3  | 155.9  | 138.5  | 110.8  | 83.1   | 79.7   |
| 70°   | 280.6   | 256.3  | 200.9  | 180.1  | 152.4  | 128.2  | 114.3  | 97.0   | 72.7   | 55.4   | 52.0   |
| 72.5° | 166.3   | 162.8  | 152.4  | 135.1  | 114.3  | 97.0   | 83.1   | 65.8   | 48.5   | 31.2   | 31.2   |
| 75°   | 103.9   | 100.4  | 103.9  | 93.5   | 79.7   | 72.7   | 62.3   | 45.0   | 27.7   | 13.9   | 13.9   |
| 77.5° | 62.3    | 62.3   | 62.3   | 58.9   | 55.4   | 55.4   | 45.0   | 27.7   | 13.9   | 3.5    | 3.5    |
| 80°   | 48.5    | 48.5   | 52.0   | 48.5   | 48.5   | 48.5   | 38.1   | 20.8   | 6.9    | 0.0    | 0.0    |
| 82.5° | 48.5    | 52.0   | 58.9   | 55.4   | 48.5   | 41.6   | 34.6   | 20.8   | 6.9    | 0.0    | 0.0    |
| 85°   | 13.9    | 10.4   | 17.3   | 24.2   | 34.6   | 31.2   | 24.2   | 17.3   | 6.9    | 0.0    | 0.0    |
| 87.5° | 6.9     | 6.9    | 6.9    | 6.9    | 3.5    | 3.5    | 3.5    | 3.5    | 3.5    | 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)