

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: P457176

Luminaire Tested: **GALN-SA8C-727-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457176  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8C-727-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 47373 lumens  
Efficiency: N/A  
Efficacy: 110.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

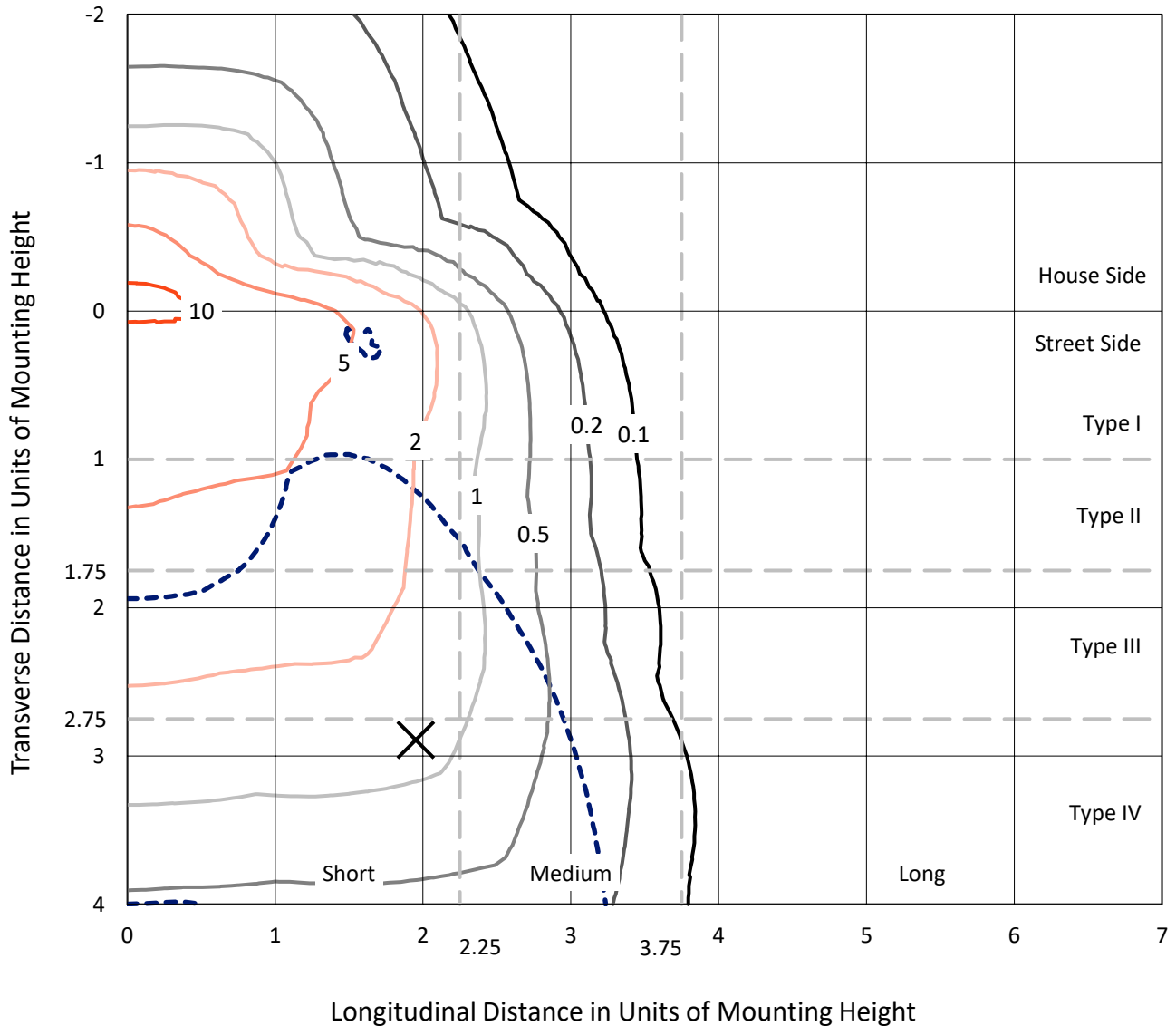
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

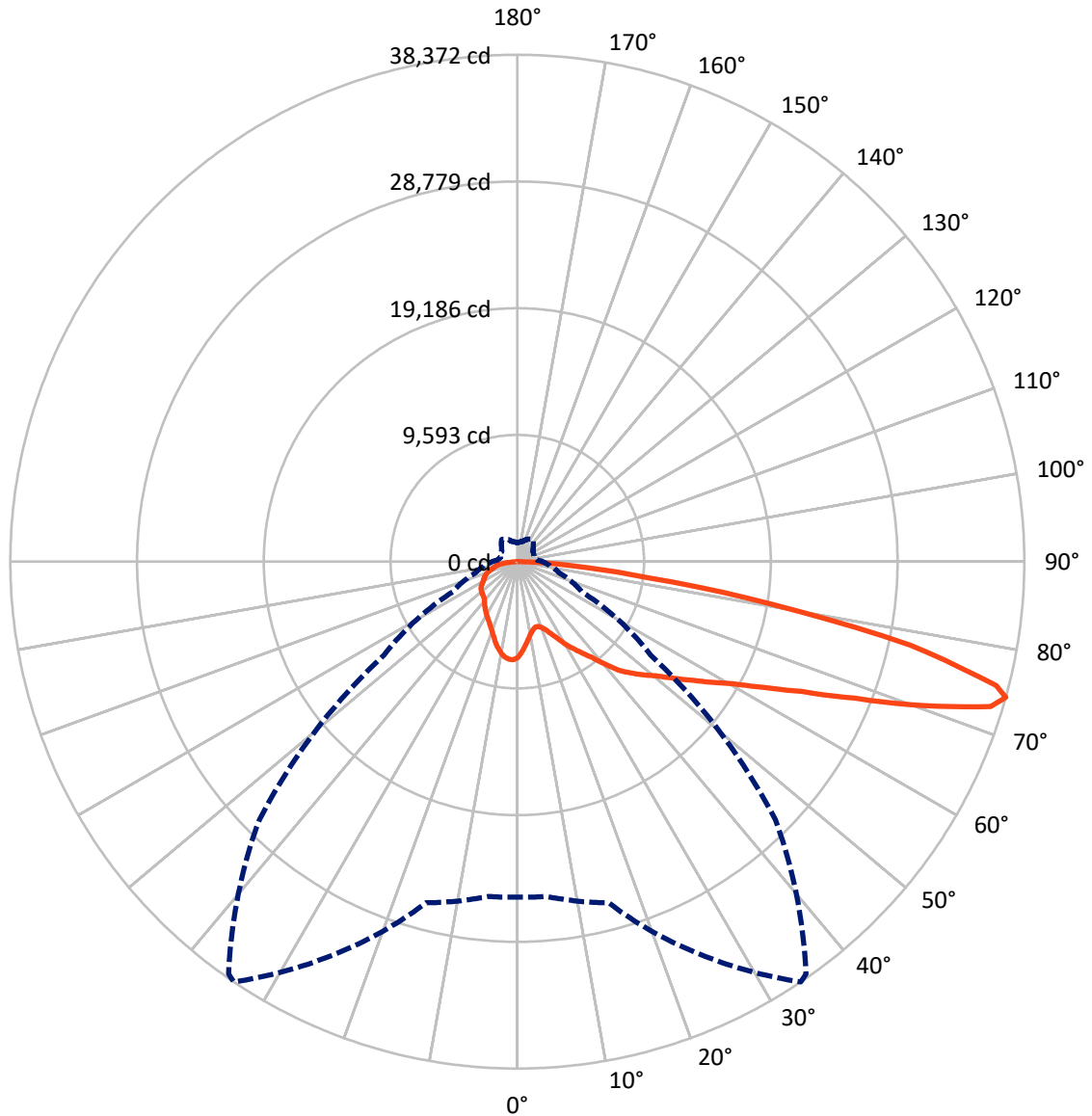
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral    - - - Horizontal Cone Through 74-Deg Vertical



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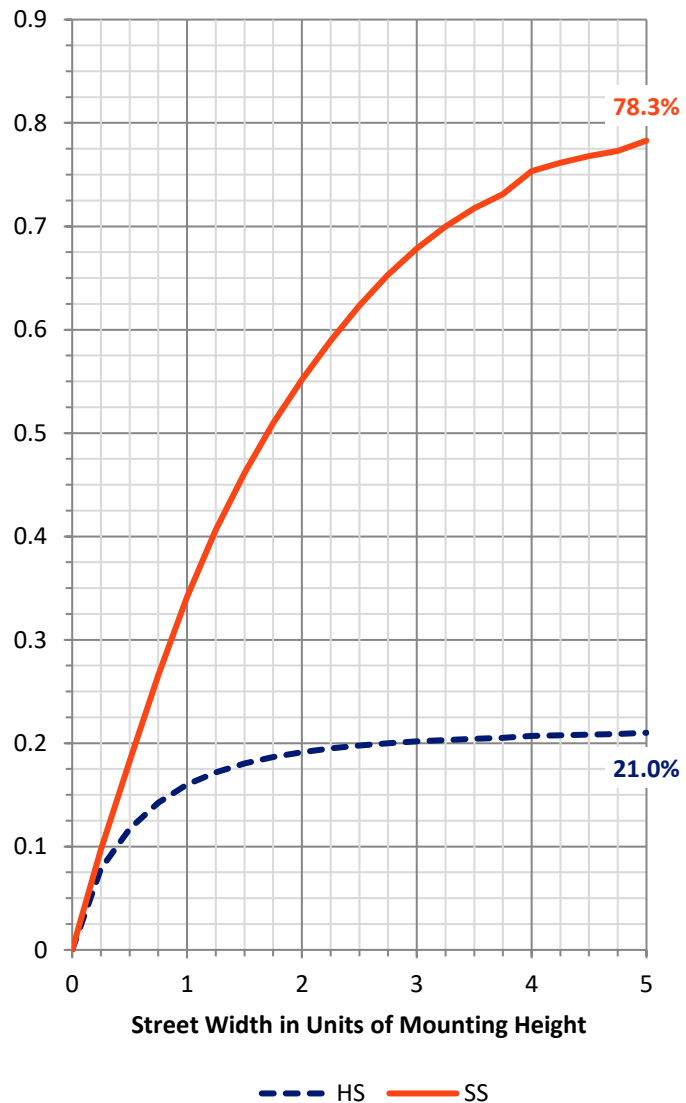
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 10081.3  | 0.0    | 10081.3 |
|                    | % Fixture | 21.3     | 0.0    | 21.3    |
| <b>Street Side</b> | Lumens    | 37291.7  | 0.0    | 37291.7 |
|                    | % Fixture | 78.7     | 0.0    | 78.7    |
| <b>Total</b>       | Lumens    | 47373.0  | 0.0    | 47373.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 657.8   | 1.4       |
| 10°-20°   | 1800.7  | 3.8       |
| 20°-30°   | 2968.9  | 6.3       |
| 30°-40°   | 4447.1  | 9.4       |
| 40°-50°   | 6464.8  | 13.6      |
| 50°-60°   | 9029.8  | 19.1      |
| 60°-70°   | 11304.9 | 23.9      |
| 70°-80°   | 9348.2  | 19.7      |
| 80°-90°   | 1350.7  | 2.9       |
| 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°    | 47373.0 | 100.0     |
| 0°-180°   | 47373.0 | 100.0     |



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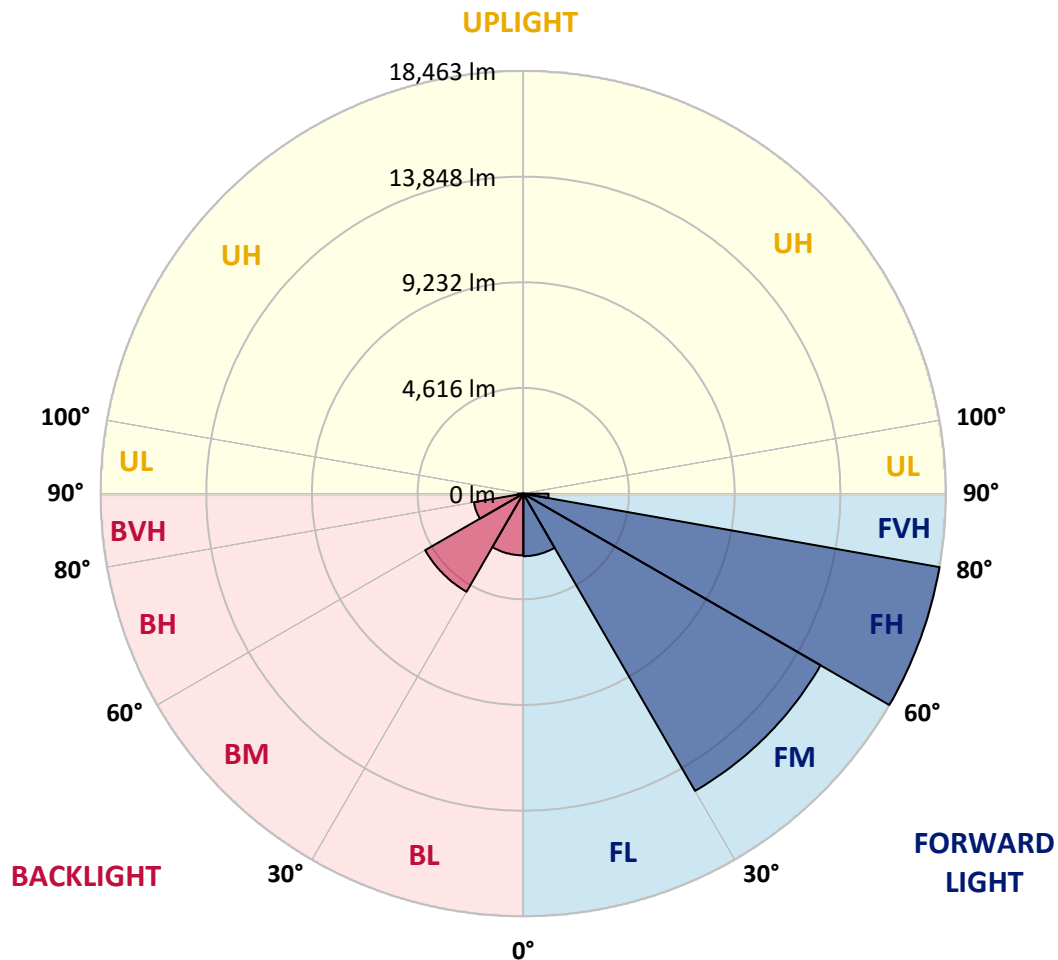
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2730.8  | 5.8       |                         |      |         |
| FM (30°-60°)   | 14990.8 | 31.6      |                         |      |         |
| FH (60°-80°)   | 18463.5 | 39.0      |                         |      | G5      |
| FVH (80°-90°)  | 1106.6  | 2.3       |                         |      | G5      |
| BL (0°-30°)    | 2696.6  | 5.7       | B4/5000                 |      |         |
| BM (30°-60°)   | 4951.0  | 10.5      | B3/5000                 |      |         |
| BH (60°-80°)   | 2189.6  | 4.6       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 244.2   | 0.5       |                         |      | G3/500  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 34°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7232.9  | 7232.9  | 7232.9  | 7232.9  | 7232.9  | 7232.9  | 7232.9  | 7232.9  | 7232.9  | 7232.9  | 7232.9  |
| 2.5°  | 6684.4  | 6718.5  | 6736.9  | 6802.5  | 6818.3  | 6839.3  | 6894.4  | 6967.9  | 7062.3  | 7146.3  | 7219.8  |
| 5°    | 6128.0  | 6180.5  | 6212.0  | 6269.8  | 6382.6  | 6393.1  | 6540.1  | 6708.0  | 6899.6  | 7078.1  | 7225.0  |
| 7.5°  | 5600.5  | 5658.3  | 5684.5  | 5789.5  | 5939.1  | 5962.7  | 6177.9  | 6443.0  | 6763.1  | 7033.5  | 7259.2  |
| 10°   | 5204.2  | 5233.1  | 5290.8  | 5369.6  | 5548.0  | 5563.8  | 5844.6  | 6198.9  | 6613.6  | 7012.5  | 7316.9  |
| 12.5° | 4989.0  | 5004.8  | 5017.9  | 5101.9  | 5277.7  | 5301.3  | 5595.3  | 5996.8  | 6495.5  | 7028.2  | 7411.4  |
| 15°   | 5020.5  | 5025.8  | 4968.0  | 4983.8  | 5125.5  | 5159.6  | 5450.9  | 5863.0  | 6422.0  | 7067.6  | 7553.1  |
| 17.5° | 5285.6  | 5267.2  | 5125.5  | 5052.0  | 5151.7  | 5167.5  | 5422.1  | 5810.5  | 6387.9  | 7141.1  | 7700.1  |
| 20°   | 5702.9  | 5676.6  | 5432.6  | 5269.8  | 5327.6  | 5340.7  | 5516.5  | 5849.8  | 6422.0  | 7261.8  | 7928.4  |
| 22.5° | 6222.5  | 6212.0  | 5842.0  | 5645.1  | 5642.5  | 5642.5  | 5734.4  | 5991.6  | 6524.3  | 7427.1  | 8167.2  |
| 25°   | 6949.5  | 6894.4  | 6411.5  | 6156.9  | 6086.0  | 6080.8  | 6070.3  | 6225.1  | 6655.5  | 7603.0  | 8450.7  |
| 27.5° | 7694.8  | 7600.3  | 7169.9  | 6778.9  | 6626.7  | 6608.3  | 6540.1  | 6555.8  | 6823.5  | 7802.4  | 8773.5  |
| 30°   | 8364.0  | 8303.7  | 7899.5  | 7466.5  | 7285.4  | 7243.4  | 7054.5  | 6967.9  | 7104.3  | 8162.0  | 9287.8  |
| 32.5° | 8875.8  | 8839.1  | 8524.1  | 8130.5  | 7862.8  | 7854.9  | 7579.3  | 7508.5  | 7542.6  | 8597.6  | 9875.7  |
| 35°   | 9290.5  | 9303.6  | 9143.5  | 8802.3  | 8495.3  | 8450.7  | 8266.9  | 8177.7  | 8078.0  | 9227.5  | 10615.8 |
| 37.5° | 9857.3  | 9886.2  | 9875.7  | 9581.8  | 9206.5  | 9217.0  | 9175.0  | 9028.0  | 8763.0  | 9930.8  | 11437.3 |
| 40°   | 10482.0 | 10503.0 | 10500.3 | 10387.5 | 10190.6 | 10201.1 | 10185.4 | 10017.4 | 9621.1  | 10825.8 | 12350.6 |
| 42.5° | 11345.4 | 11245.7 | 10985.9 | 11098.7 | 11214.2 | 11264.0 | 11371.6 | 11211.6 | 10668.3 | 11781.1 | 13208.7 |
| 45°   | 12311.2 | 12122.2 | 11534.4 | 11586.8 | 12014.6 | 12109.1 | 12702.2 | 12481.8 | 11804.7 | 12878.1 | 14219.1 |
| 47.5° | 12920.1 | 12733.7 | 12237.7 | 12227.2 | 12794.1 | 12885.9 | 13935.7 | 13854.3 | 12838.7 | 14061.7 | 15452.6 |
| 50°   | 13463.3 | 13437.1 | 12878.1 | 13011.9 | 13565.7 | 13702.1 | 15279.4 | 15203.3 | 13870.1 | 15457.9 | 16796.3 |
| 52.5° | 14269.0 | 14056.4 | 13610.3 | 13885.8 | 14618.1 | 14796.5 | 16612.6 | 16389.5 | 14817.5 | 16691.4 | 18100.7 |
| 55°   | 14631.2 | 14581.3 | 14555.1 | 14793.9 | 15799.0 | 15927.6 | 17909.1 | 17397.3 | 15625.8 | 17735.9 | 19092.7 |
| 57.5° | 15599.6 | 15507.7 | 15767.6 | 15930.3 | 17190.0 | 17386.8 | 19263.3 | 18449.7 | 16334.4 | 18565.2 | 19575.6 |
| 60°   | 16854.1 | 16804.2 | 17043.0 | 17337.0 | 18743.7 | 19042.8 | 20806.5 | 19347.3 | 16903.9 | 18982.5 | 19310.5 |
| 62.5° | 18727.9 | 18722.7 | 18678.0 | 19307.9 | 20945.6 | 21221.1 | 22577.9 | 20221.2 | 16993.2 | 18670.2 | 17940.6 |
| 65°   | 21415.3 | 21320.8 | 20932.4 | 21620.0 | 23685.5 | 24008.3 | 24422.9 | 20709.4 | 16455.2 | 17066.6 | 15106.2 |
| 67.5° | 24226.1 | 24220.8 | 23905.9 | 24798.2 | 27619.5 | 27952.8 | 26729.8 | 20601.8 | 14961.9 | 13825.5 | 10728.7 |
| 70°   | 26556.6 | 26443.7 | 26845.3 | 29223.0 | 32645.2 | 33031.0 | 28748.0 | 19334.2 | 11917.5 | 9130.4  | 6374.7  |
| 72.5° | 27115.6 | 27120.8 | 27955.4 | 32634.7 | 37471.6 | 37531.9 | 29474.9 | 15670.5 | 7975.6  | 5036.3  | 3188.7  |
| 74°   | 25394.0 | 25438.6 | 26732.4 | 32805.3 | 38371.7 | 38098.8 | 27616.8 | 12316.4 | 5393.2  | 3288.4  | 2299.0  |
| 75°   | 23178.9 | 22898.1 | 24769.3 | 31669.0 | 37437.4 | 37143.5 | 25441.2 | 9883.6  | 4115.1  | 2627.1  | 2012.9  |
| 77.5° | 12392.5 | 12678.6 | 15565.5 | 23633.0 | 30414.5 | 30075.9 | 17250.4 | 4739.7  | 2222.9  | 1829.2  | 1448.7  |
| 80°   | 4411.7  | 4865.7  | 6839.3  | 12366.3 | 19499.5 | 19604.5 | 8232.8  | 2173.0  | 1564.2  | 1349.0  | 1023.5  |
| 82.5° | 1800.4  | 1850.2  | 2936.7  | 5487.7  | 9902.0  | 9996.4  | 3361.9  | 1291.2  | 1118.0  | 929.0   | 611.5   |
| 85°   | 703.3   | 724.3   | 1299.1  | 2467.0  | 4225.3  | 4500.9  | 1162.6  | 682.4   | 687.6   | 532.8   | 312.3   |
| 87.5° | 236.2   | 267.7   | 532.8   | 821.4   | 1435.6  | 1406.7  | 338.6   | 202.1   | 246.7   | 230.9   | 97.1    |
| 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°    | 7232.9  | 7232.9  | 7232.9 | 7232.9 | 7232.9 | 7232.9 | 7232.9 | 7232.9 | 7232.9 | 7232.9 | 7232.9 |
| 2.5°  | 7256.5  | 7306.4  | 7340.5 | 7377.3 | 7411.4 | 7421.9 | 7414.0 | 7437.6 | 7440.2 | 7442.9 | 7445.5 |
| 5°    | 7298.5  | 7366.8  | 7432.4 | 7469.1 | 7484.9 | 7471.7 | 7427.1 | 7403.5 | 7382.5 | 7366.8 | 7372.0 |
| 7.5°  | 7356.3  | 7453.4  | 7513.7 | 7529.5 | 7487.5 | 7427.1 | 7316.9 | 7230.3 | 7175.2 | 7138.4 | 7135.8 |
| 10°   | 7445.5  | 7540.0  | 7589.8 | 7545.2 | 7429.8 | 7282.8 | 7109.6 | 6946.9 | 6823.5 | 6786.8 | 6784.1 |
| 12.5° | 7558.3  | 7666.0  | 7663.3 | 7532.1 | 7330.0 | 7067.6 | 6786.8 | 6597.8 | 6429.8 | 6345.9 | 6380.0 |
| 15°   | 7705.3  | 7786.7  | 7710.6 | 7474.4 | 7154.2 | 6794.6 | 6448.2 | 6191.0 | 6002.1 | 5912.8 | 5918.1 |
| 17.5° | 7875.9  | 7946.8  | 7744.7 | 7372.0 | 6907.5 | 6445.6 | 6044.1 | 5800.0 | 5650.4 | 5584.8 | 5579.5 |
| 20°   | 8088.5  | 8109.5  | 7744.7 | 7193.6 | 6589.9 | 6038.8 | 5655.6 | 5485.1 | 5401.1 | 5367.0 | 5377.5 |
| 22.5° | 8316.8  | 8274.8  | 7702.7 | 6941.6 | 6172.7 | 5613.6 | 5356.5 | 5280.3 | 5238.4 | 5233.1 | 5238.4 |
| 25°   | 8574.0  | 8455.9  | 7616.1 | 6600.4 | 5737.0 | 5246.2 | 5096.6 | 5109.8 | 5117.6 | 5117.6 | 5136.0 |
| 27.5° | 8888.9  | 8652.7  | 7471.7 | 6170.0 | 5227.9 | 4905.1 | 4863.1 | 4954.9 | 4996.9 | 5004.8 | 5017.9 |
| 30°   | 9303.6  | 8867.9  | 7232.9 | 5632.0 | 4794.8 | 4598.0 | 4671.5 | 4794.8 | 4842.1 | 4870.9 | 4865.7 |
| 32.5° | 9797.0  | 9104.1  | 6910.1 | 5094.0 | 4445.8 | 4382.8 | 4472.0 | 4598.0 | 4650.5 | 4666.2 | 4645.2 |
| 35°   | 10377.0 | 9371.8  | 6485.0 | 4590.1 | 4141.3 | 4178.1 | 4283.1 | 4322.4 | 4369.7 | 4369.7 | 4380.2 |
| 37.5° | 11001.6 | 9587.0  | 5965.3 | 4128.2 | 3905.1 | 4039.0 | 4115.1 | 4078.4 | 4057.4 | 4031.1 | 4044.2 |
| 40°   | 11636.7 | 9747.1  | 5290.8 | 3671.6 | 3668.9 | 3894.6 | 3915.6 | 3810.7 | 3726.7 | 3700.4 | 3687.3 |
| 42.5° | 12190.5 | 9846.8  | 4682.0 | 3317.3 | 3445.9 | 3752.9 | 3768.7 | 3600.7 | 3466.9 | 3388.1 | 3361.9 |
| 45°   | 12843.9 | 9962.3  | 4086.2 | 3023.3 | 3238.5 | 3640.1 | 3679.4 | 3453.7 | 3256.9 | 3091.6 | 3049.6 |
| 47.5° | 13738.9 | 10224.8 | 3616.5 | 2795.0 | 3089.0 | 3569.2 | 3624.3 | 3333.0 | 3073.2 | 2858.0 | 2823.9 |
| 50°   | 14749.3 | 10584.3 | 3251.7 | 2640.2 | 2973.5 | 3506.2 | 3574.5 | 3209.7 | 2902.6 | 2663.8 | 2637.5 |
| 52.5° | 15675.7 | 10778.5 | 2936.7 | 2501.1 | 2860.6 | 3390.8 | 3508.9 | 3120.4 | 2734.7 | 2469.6 | 2446.0 |
| 55°   | 16182.2 | 10463.6 | 2627.1 | 2364.6 | 2705.8 | 3241.2 | 3417.0 | 2997.1 | 2571.9 | 2367.2 | 2333.1 |
| 57.5° | 16250.5 | 9812.7  | 2346.2 | 2217.6 | 2543.1 | 3057.5 | 3246.4 | 2847.5 | 2467.0 | 2296.4 | 2267.5 |
| 60°   | 15722.9 | 8841.7  | 2128.4 | 2096.9 | 2377.7 | 2850.1 | 3054.8 | 2716.3 | 2359.4 | 2217.6 | 2188.8 |
| 62.5° | 14410.7 | 7786.7  | 1976.2 | 1986.7 | 2209.8 | 2632.3 | 2913.1 | 2590.3 | 2257.0 | 2131.0 | 2104.8 |
| 65°   | 12153.7 | 6427.2  | 1829.2 | 1873.8 | 2060.2 | 2461.7 | 2784.5 | 2485.3 | 2154.7 | 2065.4 | 2041.8 |
| 67.5° | 8442.8  | 4640.0  | 1708.5 | 1755.7 | 1918.5 | 2288.5 | 2634.9 | 2372.5 | 2039.2 | 1991.9 | 1955.2 |
| 70°   | 4674.1  | 2855.4  | 1566.8 | 1621.9 | 1771.5 | 2094.3 | 2467.0 | 2201.9 | 1871.2 | 1850.2 | 1797.7 |
| 72.5° | 2456.5  | 1818.7  | 1406.7 | 1467.1 | 1572.0 | 1845.0 | 2209.8 | 2015.6 | 1705.9 | 1616.6 | 1548.4 |
| 74°   | 1918.5  | 1490.7  | 1299.1 | 1362.1 | 1432.9 | 1698.0 | 2057.6 | 1881.7 | 1587.8 | 1482.8 | 1430.3 |
| 75°   | 1671.8  | 1328.0  | 1207.2 | 1288.6 | 1351.6 | 1598.3 | 1939.5 | 1787.2 | 1522.2 | 1422.4 | 1375.2 |
| 77.5° | 1181.0  | 994.7   | 986.8  | 1083.9 | 1118.0 | 1401.4 | 1747.9 | 1627.1 | 1356.8 | 1251.9 | 1207.2 |
| 80°   | 829.3   | 745.3   | 782.1  | 842.4  | 889.7  | 1238.7 | 1621.9 | 1406.7 | 1112.8 | 989.4  | 973.7  |
| 82.5° | 540.6   | 488.1   | 559.0  | 614.1  | 629.9  | 913.3  | 1309.6 | 1068.1 | 810.9  | 658.7  | 611.5  |
| 85°   | 249.3   | 244.1   | 320.2  | 312.3  | 309.7  | 446.2  | 776.8  | 624.6  | 467.1  | 349.0  | 328.1  |
| 87.5° | 63.0    | 60.4    | 78.7   | 65.6   | 78.7   | 68.2   | 70.9   | 18.4   | 2.6    | 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)