

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: P532296

Luminaire Tested: **GALN-SA7C-827-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532296  
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-SA7C-827-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 2700K, 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: 30195 lumens  
Efficiency: N/A  
Efficacy: 80.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

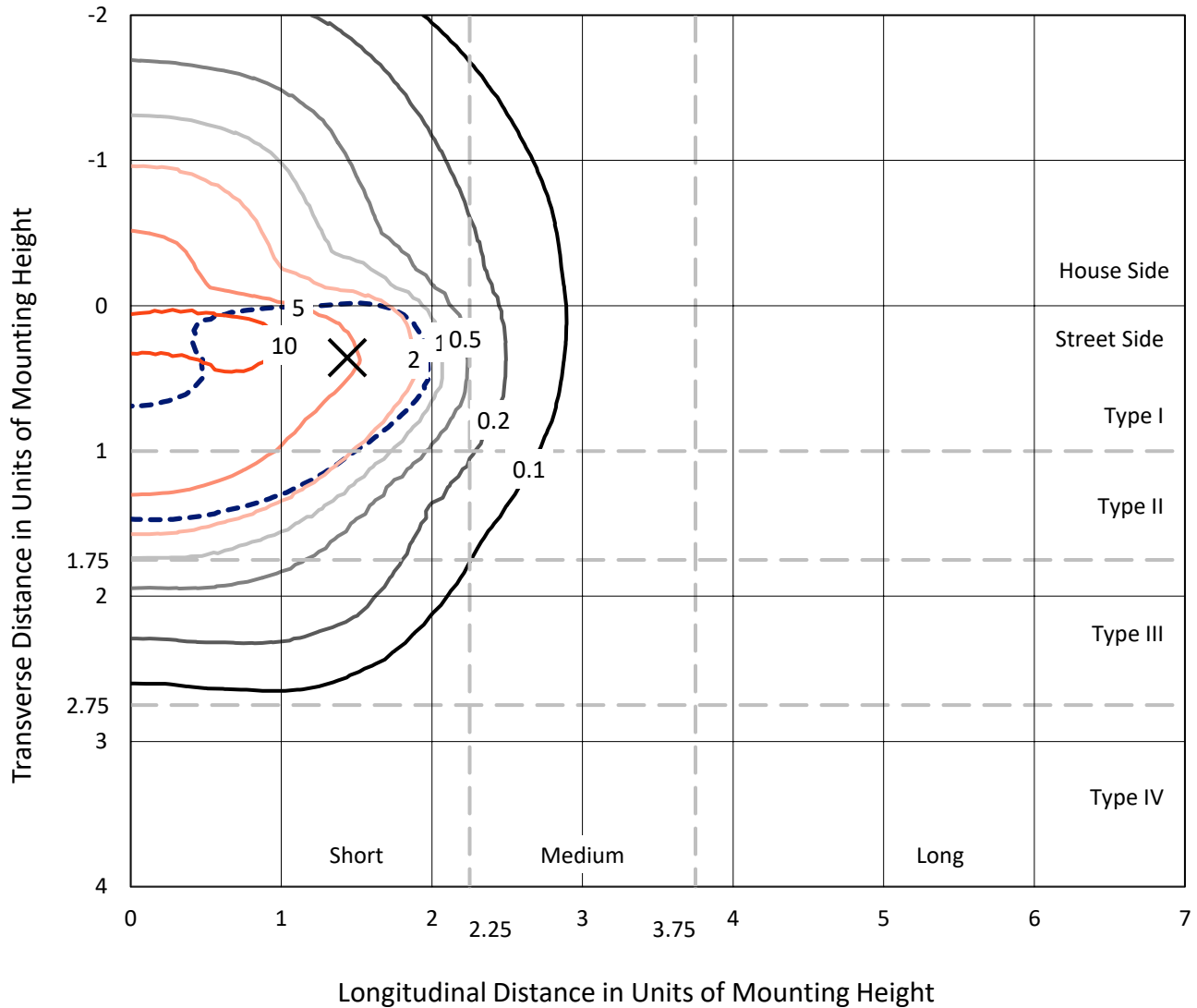
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

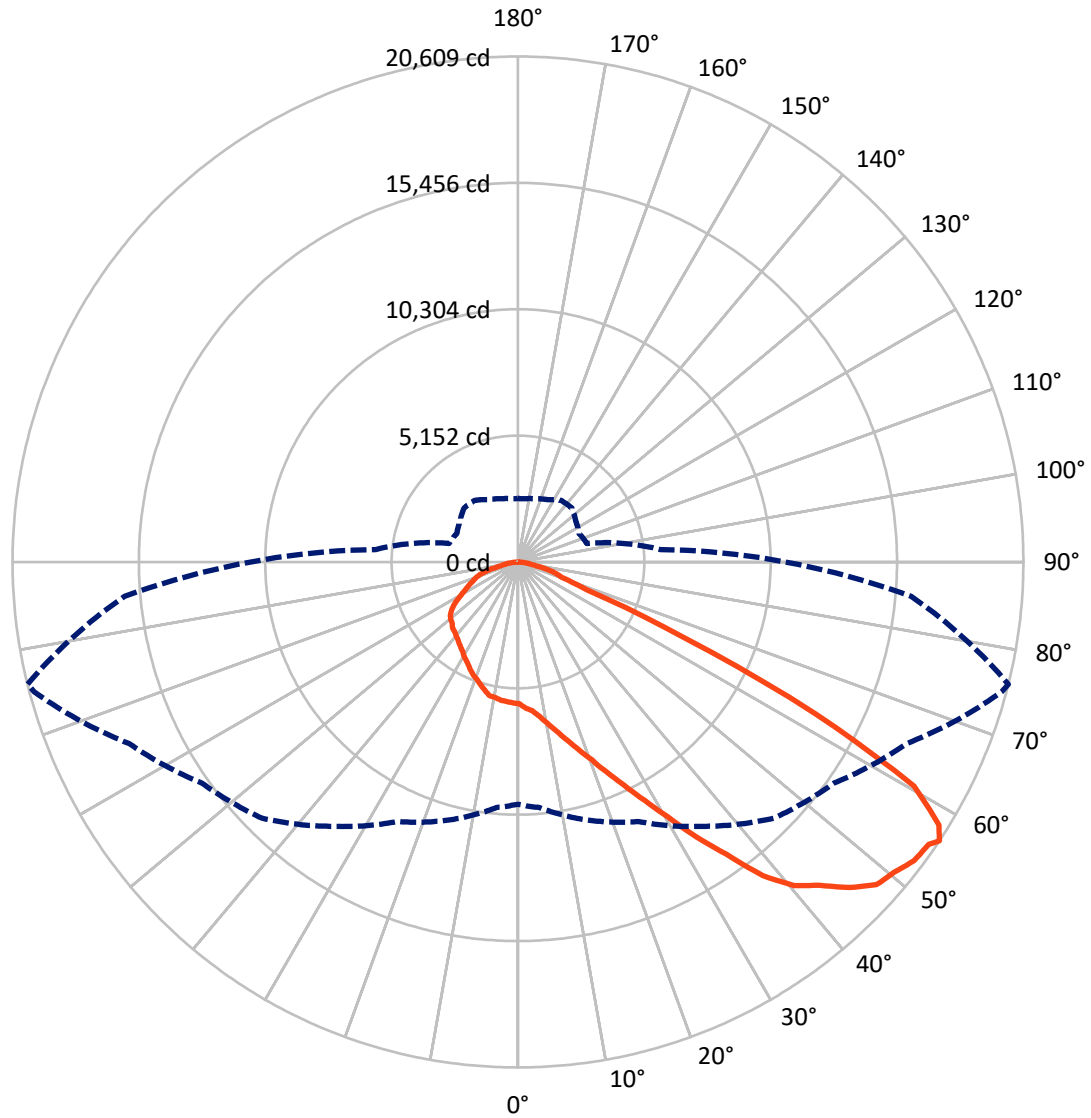
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 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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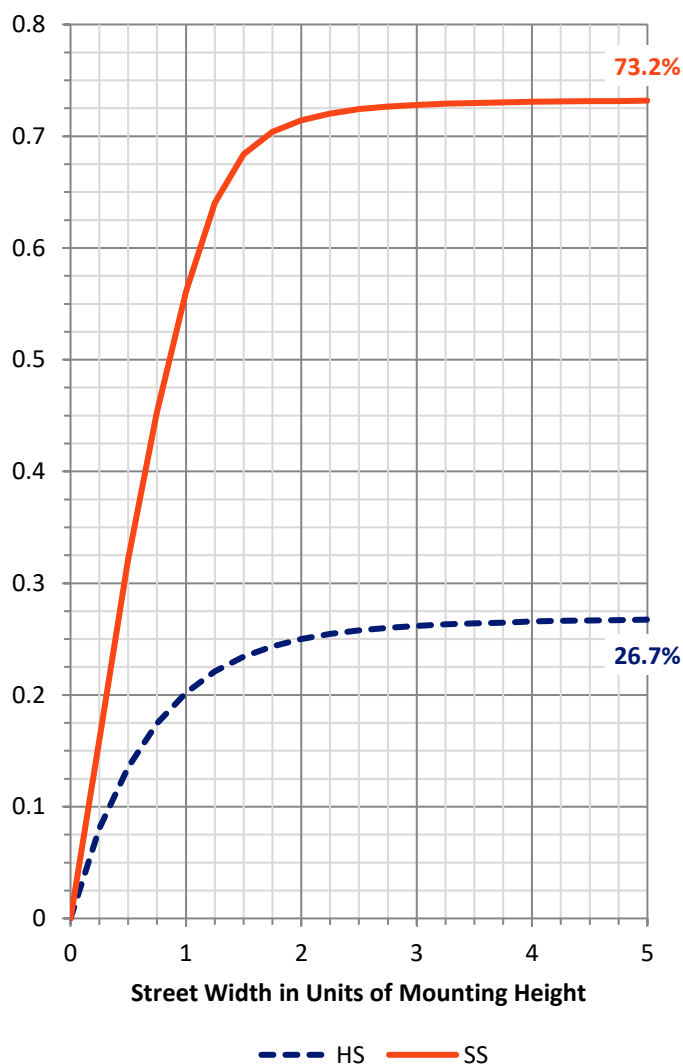
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8118.5   | 0.0    | 8118.5  |
|                    | % Fixture | 26.9     | 0.0    | 26.9    |
| <b>Street Side</b> | Lumens    | 22076.5  | 0.0    | 22076.5 |
|                    | % Fixture | 73.1     | 0.0    | 73.1    |
| <b>Total</b>       | Lumens    | 30195.0  | 0.0    | 30195.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 572.9   | 1.9       |
| 10°-20°   | 1799.8  | 6.0       |
| 20°-30°   | 3147.6  | 10.4      |
| 30°-40°   | 4928.3  | 16.3      |
| 40°-50°   | 7169.2  | 23.7      |
| 50°-60°   | 7879.4  | 26.1      |
| 60°-70°   | 3517.0  | 11.6      |
| 70°-80°   | 1015.9  | 3.4       |
| 80°-90°   | 164.8   | 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°    | 30195.0 | 100.0     |
| 0°-180°   | 30195.0 | 100.0     |

**Coefficient of Utilization**

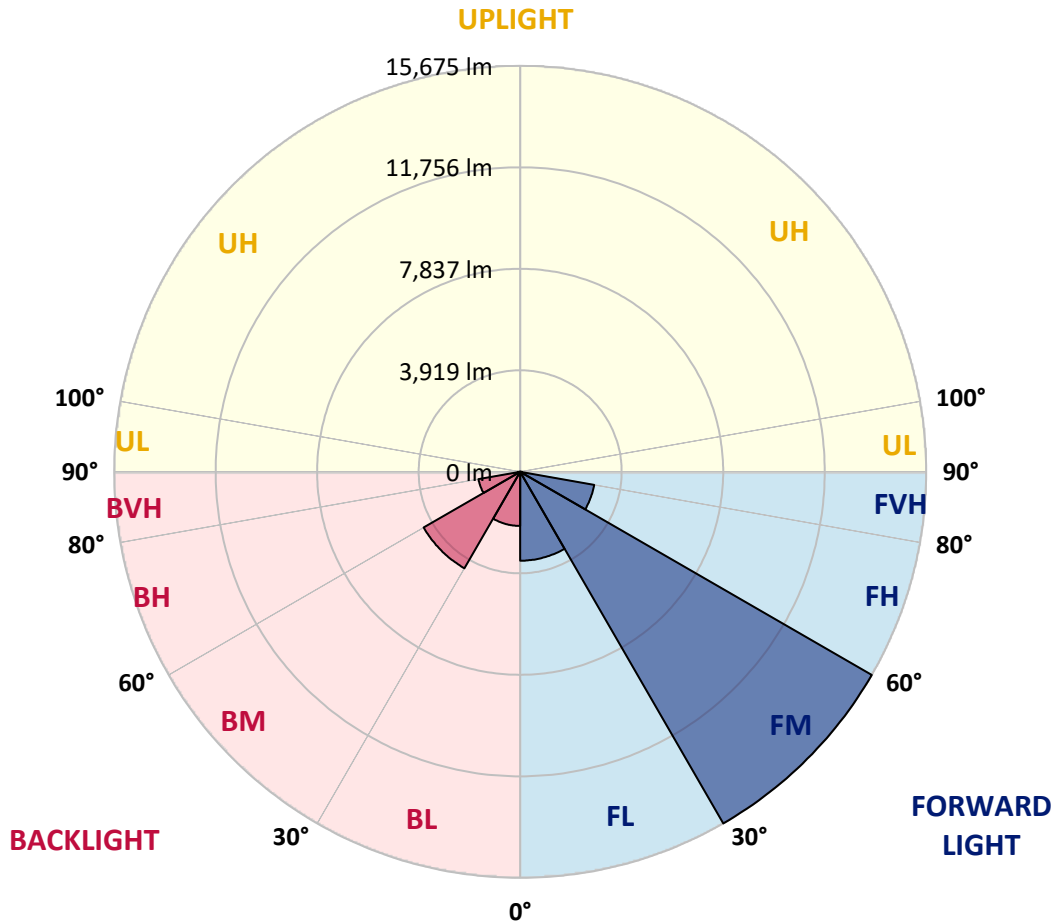


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3431.3  | 11.4      |                         |      |         |
| FM (30°-60°)   | 15674.8 | 51.9      |                         |      |         |
| FH (60°-80°)   | 2899.4  | 9.6       |                         |      | G2/5000 |
| FVH (80°-90°)  | 70.9    | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 2089.1  | 6.9       | B3/2500                 |      |         |
| BM (30°-60°)   | 4302.2  | 14.2      | B3/5000                 |      |         |
| BH (60°-80°)   | 1633.5  | 5.4       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 93.8    | 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°     | 76°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5777.4  | 5777.4  | 5777.4  | 5777.4  | 5777.4  | 5777.4  | 5777.4  | 5777.4  | 5777.4  | 5777.4  | 5777.4  |
| 2.5°  | 6364.6  | 6262.8  | 6255.0  | 6227.6  | 6243.2  | 6172.8  | 6098.4  | 6000.5  | 5898.8  | 5961.4  | 5812.7  |
| 5°    | 6810.8  | 6673.8  | 6728.6  | 6634.6  | 6646.4  | 6552.4  | 6399.8  | 6286.3  | 6161.0  | 6086.7  | 5981.0  |
| 7.5°  | 6967.4  | 6979.1  | 7018.2  | 7002.6  | 6924.3  | 6924.3  | 6822.5  | 6622.9  | 6403.7  | 6360.6  | 6184.5  |
| 10°   | 7178.7  | 7182.6  | 7139.6  | 7151.3  | 7260.9  | 7210.0  | 7120.0  | 7033.9  | 6752.1  | 6701.2  | 6388.0  |
| 12.5° | 7253.1  | 7182.6  | 7253.1  | 7315.7  | 7444.9  | 7515.4  | 7495.8  | 7433.2  | 7131.8  | 7096.5  | 6638.6  |
| 15°   | 7264.8  | 7221.8  | 7280.5  | 7421.4  | 7534.9  | 7832.4  | 7981.1  | 7938.1  | 7538.8  | 7542.8  | 6920.4  |
| 17.5° | 7210.0  | 7268.8  | 7292.2  | 7413.6  | 7675.8  | 7953.7  | 8384.3  | 8443.0  | 8114.2  | 8063.3  | 7276.6  |
| 20°   | 7284.4  | 7241.4  | 7272.7  | 7382.3  | 7730.6  | 8165.1  | 8728.8  | 9116.3  | 8654.4  | 8619.2  | 7644.5  |
| 22.5° | 7570.1  | 7511.4  | 7503.6  | 7574.1  | 7824.6  | 8274.7  | 9092.8  | 9789.5  | 9312.0  | 9331.6  | 8102.5  |
| 25°   | 7793.3  | 7824.6  | 7797.2  | 7793.3  | 7949.8  | 8439.1  | 9574.2  | 10591.9 | 10204.4 | 10090.9 | 8642.7  |
| 27.5° | 8176.9  | 8251.2  | 8196.4  | 8270.8  | 8235.6  | 8685.7  | 9918.7  | 11480.5 | 11167.3 | 11014.7 | 9131.9  |
| 30°   | 8709.2  | 8748.3  | 8697.5  | 8697.5  | 8591.8  | 9030.2  | 10231.8 | 12408.2 | 12279.0 | 12071.5 | 9707.3  |
| 32.5° | 9409.8  | 9468.6  | 9366.8  | 9308.1  | 9292.4  | 9542.9  | 10795.5 | 13324.1 | 13543.3 | 13367.1 | 10470.6 |
| 35°   | 10337.5 | 10302.3 | 10181.0 | 10126.2 | 9914.8  | 10329.7 | 11633.1 | 14377.0 | 14952.4 | 14639.3 | 11394.4 |
| 37.5° | 11155.6 | 11100.8 | 11093.0 | 10787.7 | 10838.5 | 11179.1 | 12345.5 | 15175.5 | 16318.5 | 16228.5 | 12369.0 |
| 40°   | 11918.9 | 11969.8 | 12052.0 | 11879.7 | 11801.4 | 12177.2 | 13175.3 | 15786.1 | 17379.2 | 17344.0 | 13120.5 |
| 42.5° | 12737.0 | 12690.0 | 12834.8 | 12690.0 | 12572.6 | 13104.9 | 14075.6 | 16208.9 | 18310.8 | 18021.2 | 13907.3 |
| 45°   | 13923.0 | 13774.2 | 13825.1 | 13836.9 | 13750.7 | 13946.5 | 14447.5 | 16514.2 | 18964.5 | 18933.2 | 14482.7 |
| 47.5° | 14913.3 | 14917.2 | 14831.1 | 14764.5 | 14502.3 | 14698.0 | 14862.4 | 16706.0 | 19716.1 | 19665.2 | 14705.8 |
| 50°   | 15281.2 | 15230.3 | 15480.8 | 15625.7 | 15641.3 | 15242.1 | 15187.3 | 16811.7 | 20111.4 | 19888.3 | 14928.9 |
| 52.5° | 13958.2 | 14005.2 | 14400.5 | 15261.6 | 15758.8 | 15801.8 | 15567.0 | 17030.9 | 20271.9 | 20224.9 | 15109.0 |
| 55°   | 11233.9 | 11460.9 | 12110.7 | 13104.9 | 14283.1 | 15578.7 | 15977.9 | 17257.9 | 20358.0 | 20318.8 | 15907.5 |
| 56°   | 9875.6  | 10051.8 | 10897.3 | 11676.2 | 13155.8 | 14768.4 | 15719.6 | 17500.6 | 20424.5 | 20608.5 | 16095.4 |
| 57.5° | 7949.8  | 8153.4  | 8760.1  | 9644.7  | 11390.5 | 13226.2 | 15007.2 | 17203.1 | 20166.2 | 20236.6 | 16232.4 |
| 60°   | 4971.1  | 4990.7  | 5718.7  | 6301.9  | 7531.0  | 9323.7  | 11453.1 | 14968.1 | 18663.1 | 18561.3 | 14580.6 |
| 62.5° | 3260.6  | 3264.5  | 3926.0  | 4403.5  | 4963.3  | 5374.3  | 6740.3  | 9926.5  | 13770.3 | 13590.3 | 10380.6 |
| 65°   | 2289.8  | 2340.7  | 2853.5  | 3491.5  | 3718.5  | 3503.2  | 3460.2  | 5233.3  | 7691.5  | 7433.2  | 5577.8  |
| 67.5° | 1675.3  | 1679.2  | 2133.3  | 2818.3  | 3147.1  | 2665.6  | 2164.6  | 2556.0  | 3045.3  | 3037.5  | 2583.4  |
| 70°   | 1107.7  | 1154.7  | 1503.1  | 2105.9  | 2481.6  | 2141.1  | 1769.2  | 1828.0  | 1937.6  | 1937.6  | 1921.9  |
| 72.5° | 645.9   | 688.9   | 919.8   | 1334.8  | 1393.5  | 1338.7  | 1401.3  | 1565.7  | 1636.2  | 1632.2  | 1612.7  |
| 75°   | 367.9   | 387.5   | 438.4   | 555.8   | 692.8   | 818.1   | 1029.4  | 1186.0  | 1256.5  | 1299.5  | 1248.6  |
| 77.5° | 215.3   | 227.0   | 258.3   | 317.1   | 360.1   | 442.3   | 559.7   | 669.3   | 763.3   | 751.5   | 759.4   |
| 80°   | 113.5   | 113.5   | 144.8   | 187.9   | 250.5   | 313.1   | 371.9   | 434.5   | 485.4   | 497.1   | 508.9   |
| 82.5° | 66.5    | 70.5    | 93.9    | 137.0   | 180.1   | 223.1   | 285.7   | 328.8   | 375.8   | 379.7   | 387.5   |
| 85°   | 35.2    | 39.1    | 58.7    | 90.0    | 121.3   | 137.0   | 140.9   | 133.1   | 144.8   | 137.0   | 156.6   |
| 87.5° | 11.7    | 11.7    | 19.6    | 15.7    | 15.7    | 19.6    | 23.5    | 23.5    | 31.3    | 31.3    | 31.3    |
| 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°    | 5777.4  | 5777.4 | 5777.4 | 5777.4 | 5777.4 | 5777.4 | 5777.4 | 5777.4 | 5777.4 | 5777.4 | 5777.4 |
| 2.5°  | 5808.7  | 5808.7 | 5742.2 | 5616.9 | 5597.4 | 5546.5 | 5499.5 | 5495.6 | 5460.4 | 5429.1 | 5413.4 |
| 5°    | 5918.3  | 5797.0 | 5699.1 | 5585.6 | 5452.5 | 5389.9 | 5319.5 | 5241.2 | 5209.9 | 5241.2 | 5237.3 |
| 7.5°  | 6043.6  | 5941.8 | 5648.3 | 5436.9 | 5284.2 | 5221.6 | 5143.3 | 5061.1 | 5068.9 | 5068.9 | 5014.1 |
| 10°   | 6164.9  | 6027.9 | 5558.2 | 5288.1 | 5065.0 | 5018.1 | 4975.0 | 5006.3 | 5045.5 | 5053.3 | 5018.1 |
| 12.5° | 6368.5  | 6059.3 | 5515.2 | 5139.4 | 4998.5 | 4896.7 | 4924.1 | 5010.2 | 5092.4 | 5068.9 | 5096.3 |
| 15°   | 6521.1  | 6086.7 | 5319.5 | 4986.7 | 4810.6 | 4857.6 | 4955.4 | 5014.1 | 5151.1 | 5135.5 | 5162.9 |
| 17.5° | 6669.9  | 6102.3 | 5127.7 | 4783.2 | 4708.8 | 4838.0 | 4912.4 | 5080.7 | 5123.7 | 5217.7 | 5252.9 |
| 20°   | 6975.2  | 6133.6 | 4931.9 | 4658.0 | 4634.5 | 4783.2 | 4912.4 | 4990.7 | 5084.6 | 5166.8 | 5166.8 |
| 22.5° | 7131.8  | 6118.0 | 4802.8 | 4493.6 | 4567.9 | 4661.9 | 4779.3 | 4912.4 | 4912.4 | 4990.7 | 4994.6 |
| 25°   | 7327.5  | 6055.3 | 4599.2 | 4415.3 | 4470.1 | 4560.1 | 4693.2 | 4646.2 | 4697.1 | 4697.1 | 4759.7 |
| 27.5° | 7550.6  | 5922.3 | 4423.1 | 4274.4 | 4384.0 | 4481.8 | 4501.4 | 4470.1 | 4411.4 | 4403.5 | 4380.0 |
| 30°   | 7730.6  | 5757.9 | 4293.9 | 4227.4 | 4317.4 | 4372.2 | 4309.6 | 4243.0 | 4141.3 | 4133.4 | 4078.6 |
| 32.5° | 7977.2  | 5554.3 | 4133.4 | 4110.0 | 4211.7 | 4215.6 | 4196.1 | 4094.3 | 3945.6 | 3882.9 | 3820.3 |
| 35°   | 8392.1  | 5436.9 | 4012.1 | 4047.3 | 4078.6 | 4066.9 | 4031.7 | 3922.1 | 3773.3 | 3745.9 | 3722.4 |
| 37.5° | 8697.5  | 5350.8 | 3886.8 | 3929.9 | 3957.3 | 3973.0 | 3867.3 | 3745.9 | 3749.8 | 3695.0 | 3679.4 |
| 40°   | 9041.9  | 5296.0 | 3785.1 | 3804.6 | 3808.6 | 3859.4 | 3730.3 | 3671.6 | 3699.0 | 3663.7 | 3687.2 |
| 42.5° | 9484.2  | 5311.6 | 3679.4 | 3663.7 | 3738.1 | 3718.5 | 3655.9 | 3577.6 | 3593.3 | 3487.6 | 3503.2 |
| 45°   | 9719.1  | 5417.3 | 3616.8 | 3546.3 | 3628.5 | 3624.6 | 3542.4 | 3468.0 | 3374.1 | 3170.5 | 3178.4 |
| 47.5° | 9875.6  | 5444.7 | 3468.0 | 3421.1 | 3507.2 | 3558.0 | 3464.1 | 3291.9 | 3158.8 | 3014.0 | 2978.7 |
| 50°   | 10036.1 | 5495.6 | 3397.6 | 3299.7 | 3334.9 | 3456.3 | 3338.9 | 3174.5 | 3045.3 | 2916.1 | 2935.7 |
| 52.5° | 10177.0 | 5593.5 | 3260.6 | 3115.7 | 3178.4 | 3311.5 | 3248.8 | 3049.2 | 2908.3 | 2802.6 | 2771.3 |
| 55°   | 10803.3 | 5812.7 | 3029.6 | 2841.7 | 2990.5 | 3158.8 | 3123.6 | 2880.9 | 2728.2 | 2673.4 | 2665.6 |
| 56°   | 10901.2 | 5820.5 | 2908.3 | 2747.8 | 2884.8 | 3107.9 | 3064.9 | 2806.5 | 2669.5 | 2583.4 | 2587.3 |
| 57.5° | 10916.8 | 5726.5 | 2736.1 | 2661.7 | 2779.1 | 3033.5 | 2978.7 | 2747.8 | 2559.9 | 2481.6 | 2458.1 |
| 60°   | 9605.6  | 4470.1 | 2520.8 | 2473.8 | 2610.8 | 2806.5 | 2786.9 | 2587.3 | 2375.9 | 2285.9 | 2329.0 |
| 62.5° | 6548.5  | 3276.2 | 2352.5 | 2344.6 | 2415.1 | 2606.9 | 2556.0 | 2375.9 | 2199.8 | 2141.1 | 2113.7 |
| 65°   | 3812.5  | 2485.5 | 2188.1 | 2156.7 | 2215.5 | 2317.2 | 2352.5 | 2164.6 | 1980.6 | 1941.5 | 1929.7 |
| 67.5° | 2250.7  | 2055.0 | 1976.7 | 1925.8 | 1906.2 | 1968.9 | 1996.3 | 1886.7 | 1702.7 | 1647.9 | 1694.9 |
| 70°   | 1882.8  | 1828.0 | 1831.9 | 1745.8 | 1698.8 | 1655.7 | 1632.2 | 1534.4 | 1381.7 | 1311.3 | 1291.7 |
| 72.5° | 1624.4  | 1600.9 | 1585.3 | 1507.0 | 1463.9 | 1366.1 | 1264.3 | 1166.4 | 1052.9 | 994.2  | 998.1  |
| 75°   | 1240.8  | 1233.0 | 1240.8 | 1201.7 | 1127.3 | 1049.0 | 955.1  | 829.8  | 743.7  | 669.3  | 685.0  |
| 77.5° | 739.8   | 763.3  | 775.0  | 759.4  | 728.0  | 657.6  | 598.9  | 516.7  | 434.5  | 375.8  | 367.9  |
| 80°   | 508.9   | 528.4  | 548.0  | 528.4  | 497.1  | 446.2  | 383.6  | 321.0  | 262.3  | 230.9  | 223.1  |
| 82.5° | 387.5   | 407.1  | 418.8  | 399.3  | 360.1  | 305.3  | 262.3  | 219.2  | 172.2  | 140.9  | 133.1  |
| 85°   | 140.9   | 160.5  | 156.6  | 187.9  | 203.5  | 195.7  | 168.3  | 129.2  | 97.9   | 70.5   | 66.5   |
| 87.5° | 39.1    | 35.2   | 39.1   | 39.1   | 39.1   | 35.2   | 31.3   | 31.3   | 31.3   | 19.6   | 15.7   |
| 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)