

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: P455388

Luminaire Tested: **GALN-SA6C-750-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455388  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6C-750-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41614 lumens  
Efficiency: N/A  
Efficacy: 129.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5

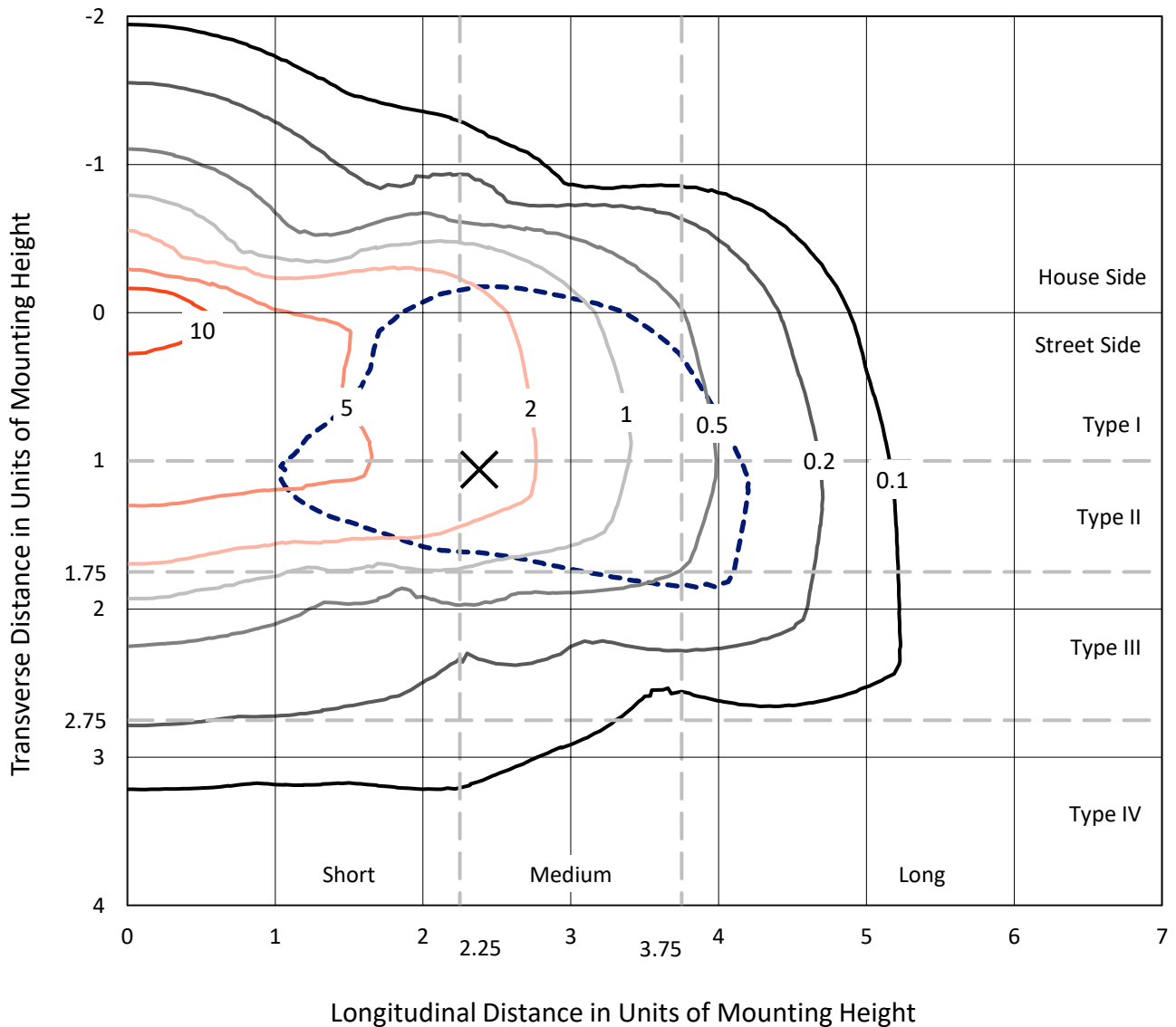
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

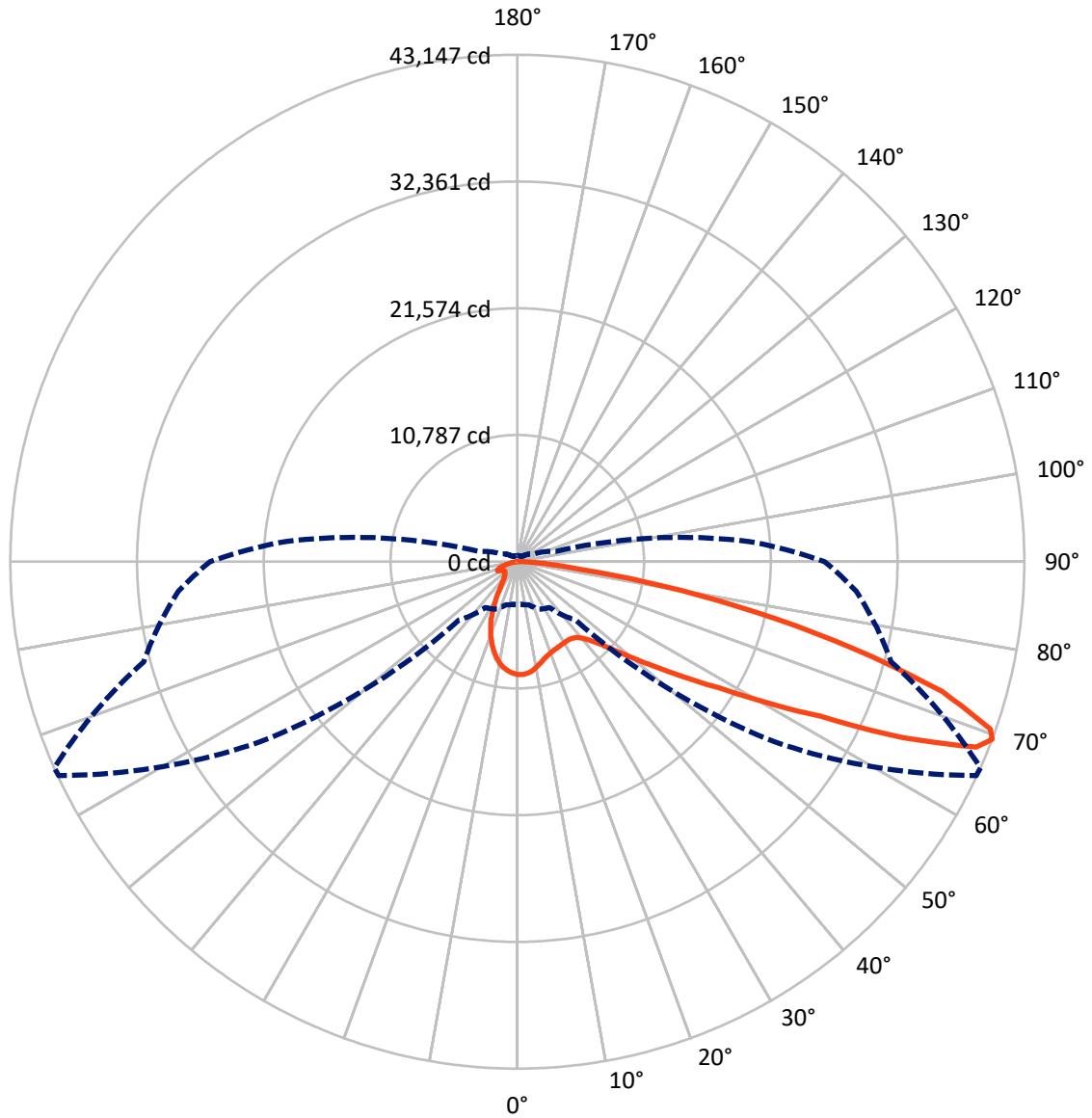
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7826.0   | 0.0    | 7826.0  |
|                    | % Fixture | 18.8     | 0.0    | 18.8    |
| <b>Street Side</b> | Lumens    | 33788.0  | 0.0    | 33788.0 |
|                    | % Fixture | 81.2     | 0.0    | 81.2    |
| <b>Total</b>       | Lumens    | 41614.0  | 0.0    | 41614.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 834.5   | 2.0       |
| 10°-20°   | 1979.4  | 4.8       |
| 20°-30°   | 2694.7  | 6.5       |
| 30°-40°   | 3621.1  | 8.7       |
| 40°-50°   | 5406.8  | 13.0      |
| 50°-60°   | 8600.5  | 20.7      |
| 60°-70°   | 10578.1 | 25.4      |
| 70°-80°   | 6882.6  | 16.5      |
| 80°-90°   | 1016.4  | 2.4       |
| 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°    | 41614.0 | 100.0     |
| 0°-180°   | 41614.0 | 100.0     |



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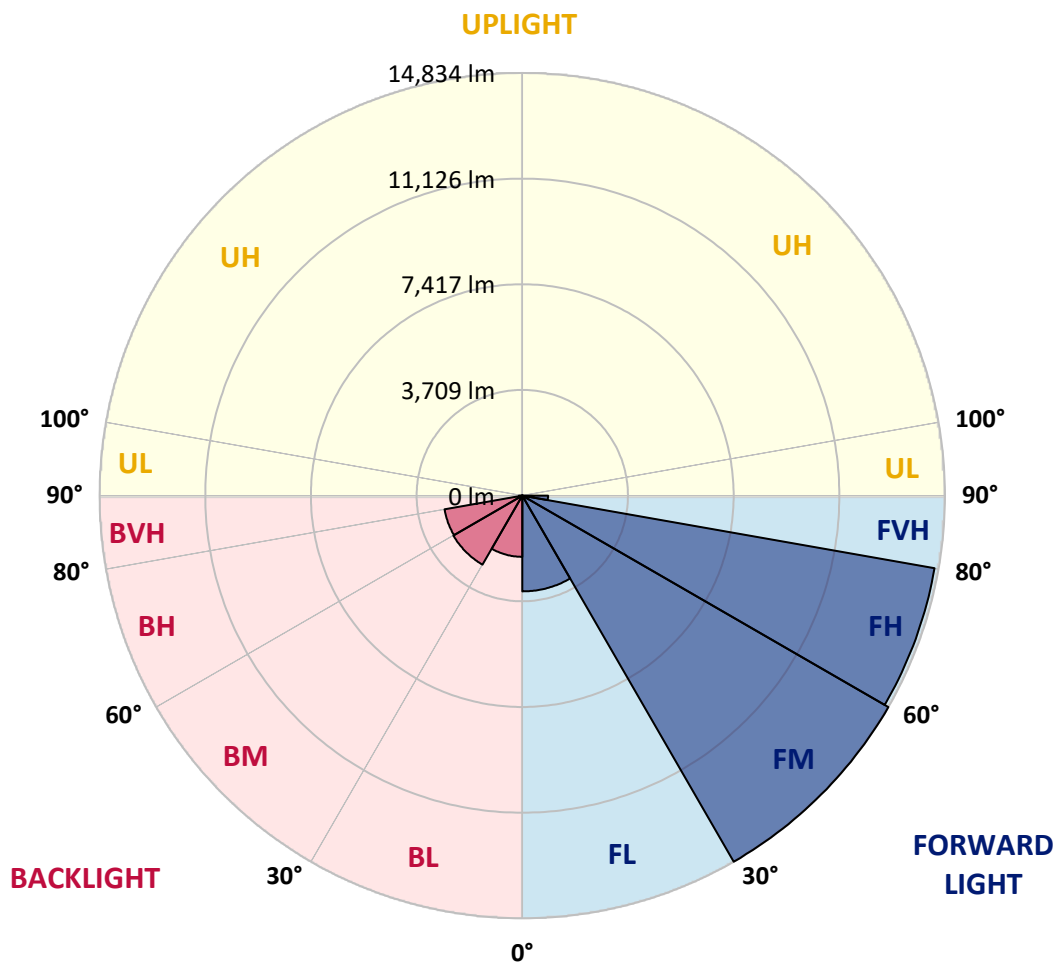
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3360.3  | 8.1       |                         |      |         |
| FM   | (30°-60°)   | 14834.1 | 35.6      |                         |      |         |
| FH   | (60°-80°)   | 14690.0 | 35.3      |                         |      | G5      |
| FVH  | (80°-90°)   | 903.6   | 2.2       |                         |      | G5      |
| BL   | (0°-30°)    | 2148.3  | 5.2       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2794.2  | 6.7       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 2770.8  | 6.7       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 112.8   | 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-G5**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 66°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 9609.8  | 9609.8  | 9609.8  | 9609.8  | 9609.8  | 9609.8  | 9609.8  | 9609.8  | 9609.8  | 9609.8  | 9609.8  |
| 2.5°  | 9273.4  | 9310.2  | 9351.7  | 9397.8  | 9485.4  | 9533.8  | 9568.3  | 9607.5  | 9612.1  | 9632.9  | 9616.7  |
| 5°    | 8588.9  | 8632.7  | 8694.9  | 8782.5  | 8913.9  | 9119.0  | 9331.0  | 9503.8  | 9524.6  | 9621.4  | 9649.0  |
| 7.5°  | 8017.4  | 8042.8  | 8093.5  | 8234.0  | 8420.7  | 8648.8  | 8957.7  | 9307.9  | 9358.6  | 9589.1  | 9669.7  |
| 10°   | 7551.9  | 7577.2  | 7637.2  | 7782.3  | 7966.7  | 8252.5  | 8591.2  | 9052.1  | 9093.6  | 9490.0  | 9674.4  |
| 12.5° | 7203.9  | 7227.0  | 7291.5  | 7434.4  | 7646.4  | 7913.7  | 8287.0  | 8775.6  | 8835.5  | 9358.6  | 9630.6  |
| 15°   | 6938.9  | 6982.7  | 7035.7  | 7153.2  | 7376.8  | 7634.9  | 7996.7  | 8522.1  | 8570.5  | 9220.4  | 9600.6  |
| 17.5° | 6826.0  | 6846.7  | 6883.6  | 6991.9  | 7155.5  | 7409.0  | 7773.1  | 8323.9  | 8381.5  | 9123.6  | 9593.7  |
| 20°   | 6830.6  | 6851.3  | 6858.2  | 6918.2  | 7035.7  | 7254.6  | 7614.1  | 8167.2  | 8236.3  | 9038.3  | 9605.2  |
| 22.5° | 6987.3  | 6989.6  | 6964.2  | 6943.5  | 6989.6  | 7171.7  | 7501.2  | 8049.7  | 8130.3  | 9001.4  | 9614.4  |
| 25°   | 7229.3  | 7270.7  | 7233.9  | 7137.1  | 7051.8  | 7139.4  | 7457.4  | 7985.1  | 8061.2  | 8948.4  | 9602.9  |
| 27.5° | 7621.0  | 7627.9  | 7598.0  | 7466.6  | 7245.4  | 7180.9  | 7439.0  | 7936.8  | 8001.3  | 8909.3  | 9545.3  |
| 30°   | 8146.5  | 8125.7  | 8098.1  | 7952.9  | 7604.9  | 7339.9  | 7478.2  | 7893.0  | 7959.8  | 8851.6  | 9476.2  |
| 32.5° | 8678.8  | 8743.3  | 8718.0  | 8547.4  | 8095.8  | 7648.7  | 7604.9  | 7888.4  | 7943.7  | 8807.9  | 9400.1  |
| 35°   | 9243.4  | 9273.4  | 9393.2  | 9305.6  | 8842.4  | 8148.8  | 7842.3  | 7959.8  | 8003.6  | 8810.2  | 9347.1  |
| 37.5° | 9685.9  | 9766.5  | 10047.7 | 10123.7 | 9688.2  | 8810.2  | 8227.1  | 8162.6  | 8181.0  | 8923.1  | 9367.9  |
| 40°   | 10220.5 | 10358.8 | 10720.6 | 11031.7 | 10746.0 | 9669.7  | 8881.6  | 8538.2  | 8561.3  | 9195.0  | 9503.8  |
| 42.5° | 10898.1 | 10994.8 | 11481.1 | 11902.8 | 11856.7 | 10805.9 | 9674.4  | 9153.5  | 9165.1  | 9736.6  | 9884.1  |
| 45°   | 11690.8 | 11829.1 | 12375.2 | 13009.0 | 13117.3 | 12091.8 | 10819.7 | 10084.6 | 10077.6 | 10577.7 | 10593.9 |
| 47.5° | 12704.8 | 12790.1 | 13331.6 | 14023.0 | 14460.8 | 13707.3 | 12209.3 | 11421.2 | 11347.4 | 11803.7 | 11672.4 |
| 50°   | 13638.1 | 13771.8 | 14182.0 | 14937.9 | 16027.9 | 15599.3 | 14036.8 | 13154.2 | 12981.3 | 13407.7 | 13186.4 |
| 52.5° | 14029.9 | 14170.5 | 14516.1 | 15454.1 | 17371.4 | 18046.7 | 16357.4 | 15221.3 | 14933.3 | 15260.5 | 15179.8 |
| 55°   | 13350.1 | 13532.1 | 13854.7 | 14995.5 | 17961.4 | 20869.7 | 19487.0 | 17611.1 | 17401.4 | 17260.8 | 17283.9 |
| 57.5° | 11522.6 | 11695.4 | 12131.0 | 13389.2 | 17256.2 | 22918.4 | 23955.4 | 20683.0 | 20233.6 | 19586.1 | 19696.7 |
| 60°   | 8771.0  | 8879.3  | 9105.1  | 10499.4 | 15166.0 | 23450.7 | 29030.0 | 24566.1 | 24280.4 | 21902.1 | 21980.5 |
| 62.5° | 6229.1  | 6351.2  | 6508.0  | 7203.9  | 11103.2 | 21950.5 | 33003.0 | 29988.7 | 28967.8 | 24301.1 | 24225.1 |
| 65°   | 5058.4  | 4975.4  | 5164.4  | 5489.4  | 6514.9  | 17011.9 | 33897.1 | 37515.2 | 36109.5 | 27460.6 | 26405.1 |
| 67.5° | 4159.7  | 4072.1  | 4258.7  | 4837.2  | 4954.7  | 9874.8  | 30675.4 | 42400.8 | 42119.6 | 30896.6 | 28619.8 |
| 69°   | 3682.6  | 3636.5  | 3800.1  | 4459.2  | 4756.5  | 7012.6  | 26723.2 | 43080.6 | 43147.4 | 32922.3 | 28960.8 |
| 70°   | 3318.5  | 3336.9  | 3495.9  | 4268.0  | 4666.6  | 5782.0  | 22840.1 | 42142.7 | 42709.6 | 33934.0 | 28592.1 |
| 72.5° | 2442.8  | 2482.0  | 2703.2  | 3535.1  | 4581.4  | 4906.3  | 13592.0 | 36810.0 | 37812.5 | 33993.9 | 26156.2 |
| 75°   | 1707.6  | 1689.2  | 1885.1  | 2661.7  | 4327.9  | 4862.5  | 7982.8  | 28467.7 | 29603.8 | 29382.6 | 21978.2 |
| 77.5° | 1117.7  | 1147.6  | 1304.4  | 1880.5  | 3641.1  | 4825.7  | 5203.6  | 20196.8 | 20934.2 | 19650.6 | 12999.8 |
| 80°   | 788.1   | 785.8   | 873.4   | 1283.6  | 2700.9  | 4636.7  | 4261.0  | 12730.1 | 12543.5 | 7722.4  | 3855.5  |
| 82.5° | 451.7   | 483.9   | 585.3   | 903.4   | 1806.7  | 4081.3  | 3920.0  | 6088.5  | 5558.5  | 2200.8  | 1302.1  |
| 85°   | 251.2   | 262.7   | 348.0   | 546.2   | 1055.5  | 3074.2  | 3422.2  | 2770.0  | 2613.3  | 919.5   | 560.0   |
| 87.5° | 80.7    | 87.6    | 145.2   | 276.5   | 479.3   | 1451.8  | 1938.1  | 1279.0  | 1179.9  | 331.9   | 225.8   |
| 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°    | 9609.8  | 9609.8  | 9609.8 | 9609.8 | 9609.8 | 9609.8 | 9609.8 | 9609.8 | 9609.8 | 9609.8 | 9609.8 |
| 2.5°  | 9623.7  | 9651.3  | 9577.6 | 9506.1 | 9441.6 | 9351.7 | 9271.1 | 9204.2 | 9158.1 | 9151.2 | 9128.2 |
| 5°    | 9655.9  | 9658.2  | 9517.6 | 9328.7 | 9144.3 | 8941.5 | 8731.8 | 8582.0 | 8441.4 | 8363.1 | 8323.9 |
| 7.5°  | 9679.0  | 9658.2  | 9404.7 | 9098.2 | 8743.3 | 8374.6 | 8005.9 | 7710.9 | 7482.8 | 7392.9 | 7427.5 |
| 10°   | 9669.7  | 9605.2  | 9234.2 | 8743.3 | 8227.1 | 7676.3 | 7146.3 | 6731.5 | 6351.2 | 6155.4 | 6160.0 |
| 12.5° | 9619.0  | 9513.0  | 8980.7 | 8344.6 | 7586.5 | 6849.0 | 6037.8 | 5477.8 | 5037.7 | 4777.3 | 4696.6 |
| 15°   | 9575.3  | 9390.9  | 8683.4 | 7803.1 | 6860.5 | 5807.4 | 4818.7 | 4127.4 | 3758.7 | 3553.6 | 3551.3 |
| 17.5° | 9529.2  | 9273.4  | 8358.5 | 7229.3 | 6026.3 | 4671.3 | 3634.2 | 3106.5 | 2933.6 | 2954.4 | 2919.8 |
| 20°   | 9480.8  | 9135.1  | 8019.7 | 6590.9 | 5010.0 | 3484.4 | 2721.6 | 2507.3 | 2555.7 | 2650.2 | 2664.0 |
| 22.5° | 9425.5  | 8987.6  | 7655.6 | 5888.0 | 3940.7 | 2622.5 | 2207.7 | 2175.5 | 2299.9 | 2447.4 | 2468.1 |
| 25°   | 9340.2  | 8803.2  | 7197.0 | 5152.9 | 3039.7 | 2113.2 | 1933.5 | 1956.5 | 2078.7 | 2203.1 | 2216.9 |
| 27.5° | 9220.4  | 8575.1  | 6733.8 | 4235.7 | 2283.8 | 1813.7 | 1767.6 | 1797.5 | 1857.4 | 1933.5 | 1951.9 |
| 30°   | 9059.0  | 8317.0  | 6201.5 | 3442.9 | 1829.8 | 1663.9 | 1645.4 | 1661.6 | 1696.1 | 1728.4 | 1737.6 |
| 32.5° | 8897.7  | 8068.1  | 5664.5 | 2636.4 | 1631.6 | 1564.8 | 1546.3 | 1546.3 | 1546.3 | 1550.9 | 1553.2 |
| 35°   | 8747.9  | 7833.0  | 5088.4 | 2053.3 | 1527.9 | 1486.4 | 1461.1 | 1433.4 | 1428.8 | 1412.7 | 1412.7 |
| 37.5° | 8665.0  | 7618.7  | 4475.4 | 1719.2 | 1451.8 | 1421.9 | 1387.3 | 1341.2 | 1315.9 | 1318.2 | 1313.6 |
| 40°   | 8681.1  | 7478.2  | 3917.7 | 1530.2 | 1389.6 | 1357.4 | 1304.4 | 1251.4 | 1235.2 | 1235.2 | 1230.6 |
| 42.5° | 8863.2  | 7432.1  | 3383.0 | 1431.1 | 1329.7 | 1292.8 | 1226.0 | 1177.6 | 1168.4 | 1166.1 | 1170.7 |
| 45°   | 9282.6  | 7545.0  | 2903.7 | 1366.6 | 1279.0 | 1223.7 | 1156.9 | 1113.1 | 1103.9 | 1103.9 | 1101.6 |
| 47.5° | 10100.7 | 7911.4  | 2560.3 | 1325.1 | 1242.1 | 1170.7 | 1101.6 | 1057.8 | 1041.6 | 1037.0 | 1037.0 |
| 50°   | 11372.8 | 8706.5  | 2304.5 | 1288.2 | 1196.0 | 1122.3 | 1050.9 | 1000.2 | 974.8  | 972.5  | 970.2  |
| 52.5° | 13140.3 | 9946.3  | 2205.4 | 1260.6 | 1145.3 | 1071.6 | 993.2  | 944.9  | 912.6  | 905.7  | 901.1  |
| 55°   | 15207.5 | 11677.0 | 2341.4 | 1239.8 | 1092.3 | 1014.0 | 933.3  | 882.6  | 852.7  | 838.8  | 836.5  |
| 57.5° | 17601.9 | 13755.7 | 2857.6 | 1212.2 | 1043.9 | 951.8  | 873.4  | 822.7  | 790.4  | 774.3  | 769.7  |
| 60°   | 19752.0 | 15891.9 | 3758.7 | 1196.0 | 1002.5 | 884.9  | 804.3  | 758.2  | 728.2  | 712.1  | 709.8  |
| 62.5° | 22114.1 | 17929.1 | 4834.9 | 1239.8 | 984.0  | 820.4  | 739.7  | 698.3  | 672.9  | 656.8  | 656.8  |
| 65°   | 24637.6 | 19968.6 | 5547.0 | 1387.3 | 1011.7 | 769.7  | 670.6  | 636.0  | 613.0  | 601.5  | 599.2  |
| 67.5° | 26338.3 | 20673.8 | 4569.9 | 1539.4 | 1080.8 | 714.4  | 603.8  | 576.1  | 562.3  | 550.8  | 550.8  |
| 69°   | 26153.9 | 19782.0 | 3371.5 | 1578.6 | 1101.6 | 686.7  | 566.9  | 546.2  | 527.7  | 523.1  | 518.5  |
| 70°   | 25570.9 | 18765.7 | 2825.3 | 1553.2 | 1085.4 | 661.4  | 543.9  | 518.5  | 502.4  | 497.8  | 495.5  |
| 72.5° | 22775.5 | 16274.5 | 2104.0 | 1350.4 | 924.1  | 573.8  | 481.6  | 458.6  | 444.8  | 437.9  | 437.9  |
| 75°   | 18922.4 | 13301.7 | 1643.1 | 1073.9 | 723.6  | 483.9  | 412.5  | 394.1  | 382.5  | 377.9  | 375.6  |
| 77.5° | 10605.4 | 7427.5  | 1179.9 | 841.1  | 548.5  | 391.8  | 345.7  | 329.5  | 318.0  | 313.4  | 313.4  |
| 80°   | 2954.4  | 2122.5  | 693.7  | 555.4  | 373.3  | 297.3  | 274.2  | 262.7  | 246.6  | 235.1  | 242.0  |
| 82.5° | 1113.1  | 919.5   | 396.4  | 334.2  | 237.4  | 198.2  | 191.3  | 182.1  | 175.1  | 159.0  | 159.0  |
| 85°   | 541.6   | 447.1   | 253.5  | 177.4  | 131.4  | 103.7  | 99.1   | 94.5   | 89.9   | 78.4   | 80.7   |
| 87.5° | 186.7   | 198.2   | 110.6  | 64.5   | 39.2   | 25.3   | 20.7   | 11.5   | 11.5   | 11.5   | 11.5   |
| 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)