

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: P650984

Luminaire Tested: **GALN-SA6C-840-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650984  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6C-840-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21323.6 lumens  
Efficiency: N/A  
Efficacy: 66.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

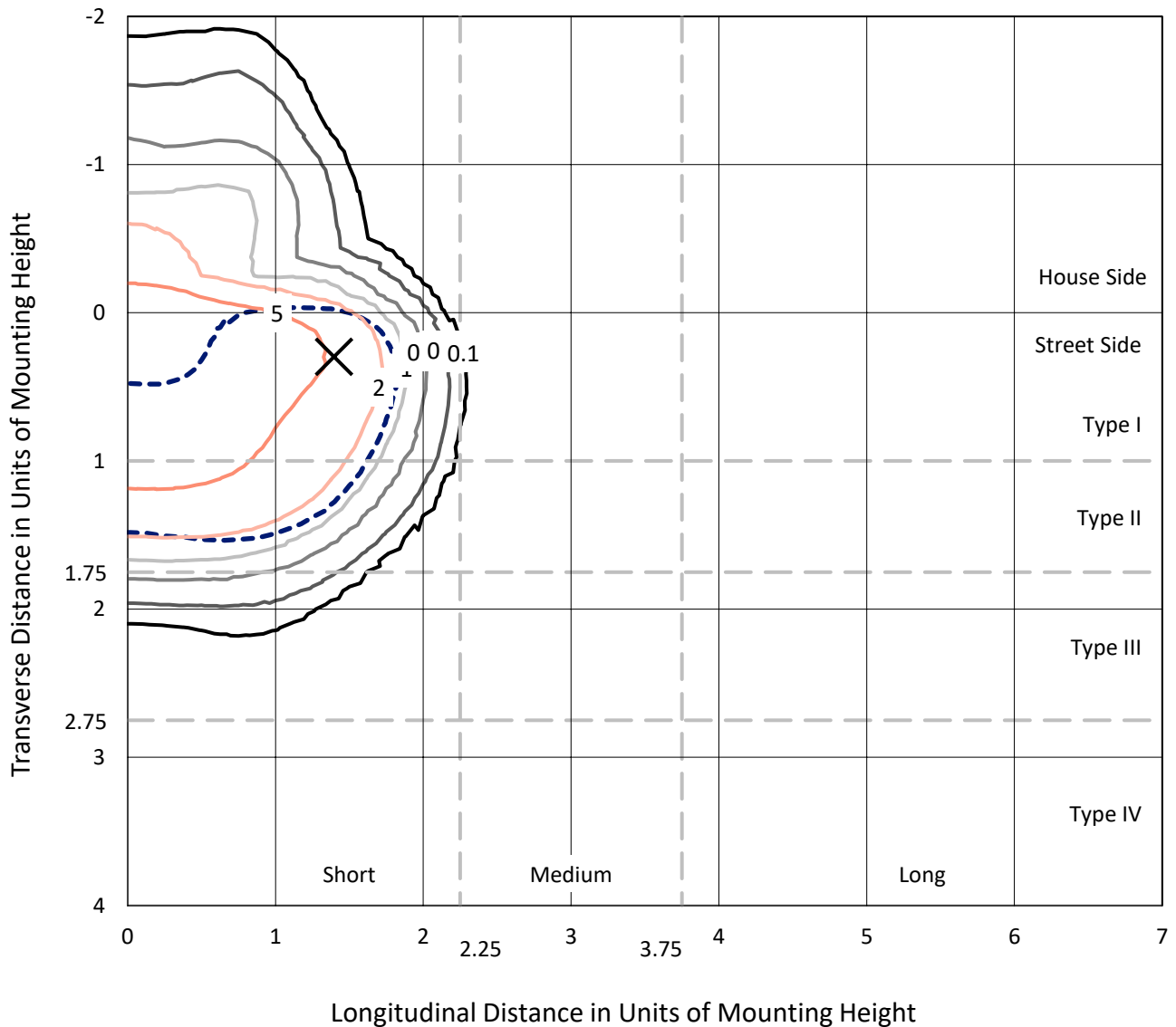
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

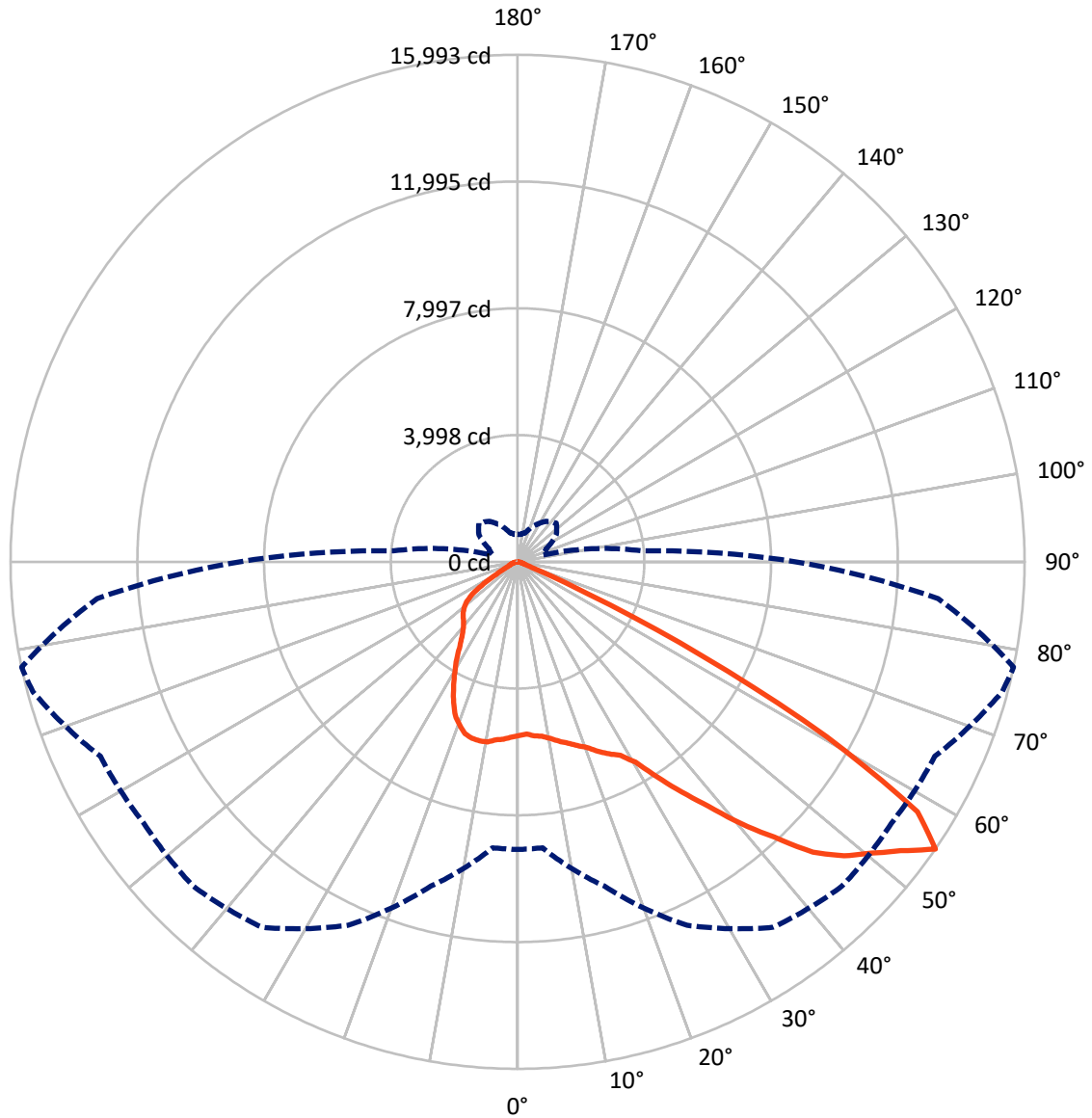
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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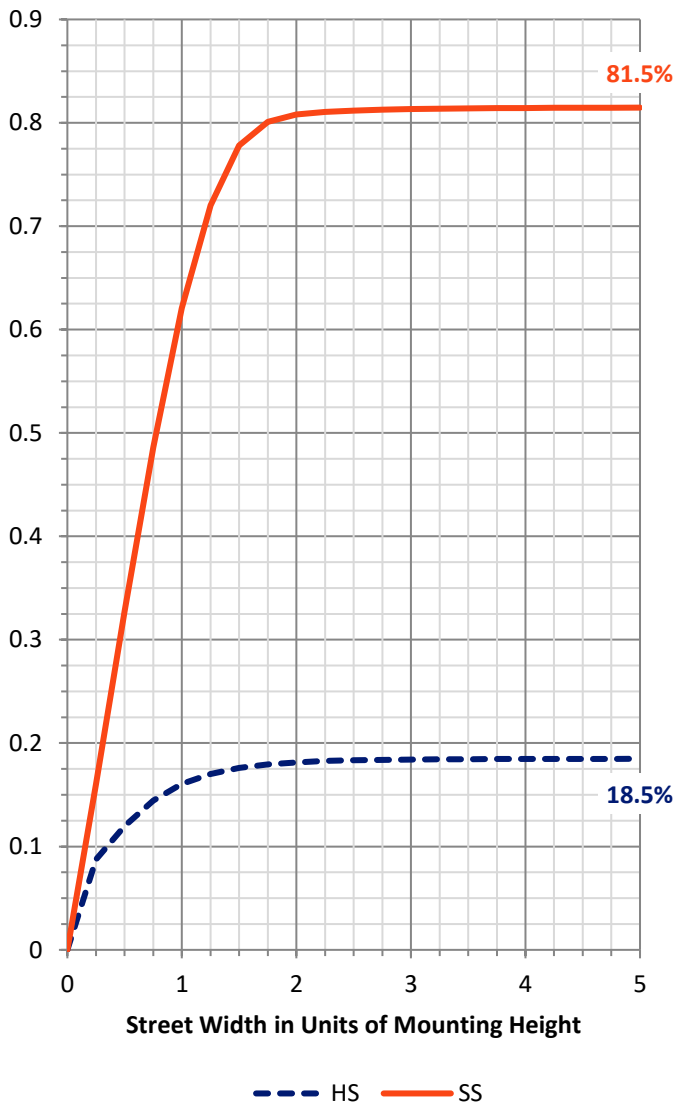
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3960.6   | 0.0    | 3960.6  |
|                    | % Fixture | 18.6     | 0.0    | 18.6    |
| <b>Street Side</b> | Lumens    | 17362.9  | 0.0    | 17362.9 |
|                    | % Fixture | 81.4     | 0.0    | 81.4    |
| <b>Total</b>       | Lumens    | 21323.6  | 0.0    | 21323.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 488.8   | 2.3       |
| 10°-20°   | 1293.7  | 6.1       |
| 20°-30°   | 2267.7  | 10.6      |
| 30°-40°   | 3739.1  | 17.5      |
| 40°-50°   | 5440.9  | 25.5      |
| 50°-60°   | 6165.1  | 28.9      |
| 60°-70°   | 1762.7  | 8.3       |
| 70°-80°   | 136.9   | 0.6       |
| 80°-90°   | 28.5    | 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°    | 21323.6 | 100.0     |
| 0°-180°   | 21323.6 | 100.0     |



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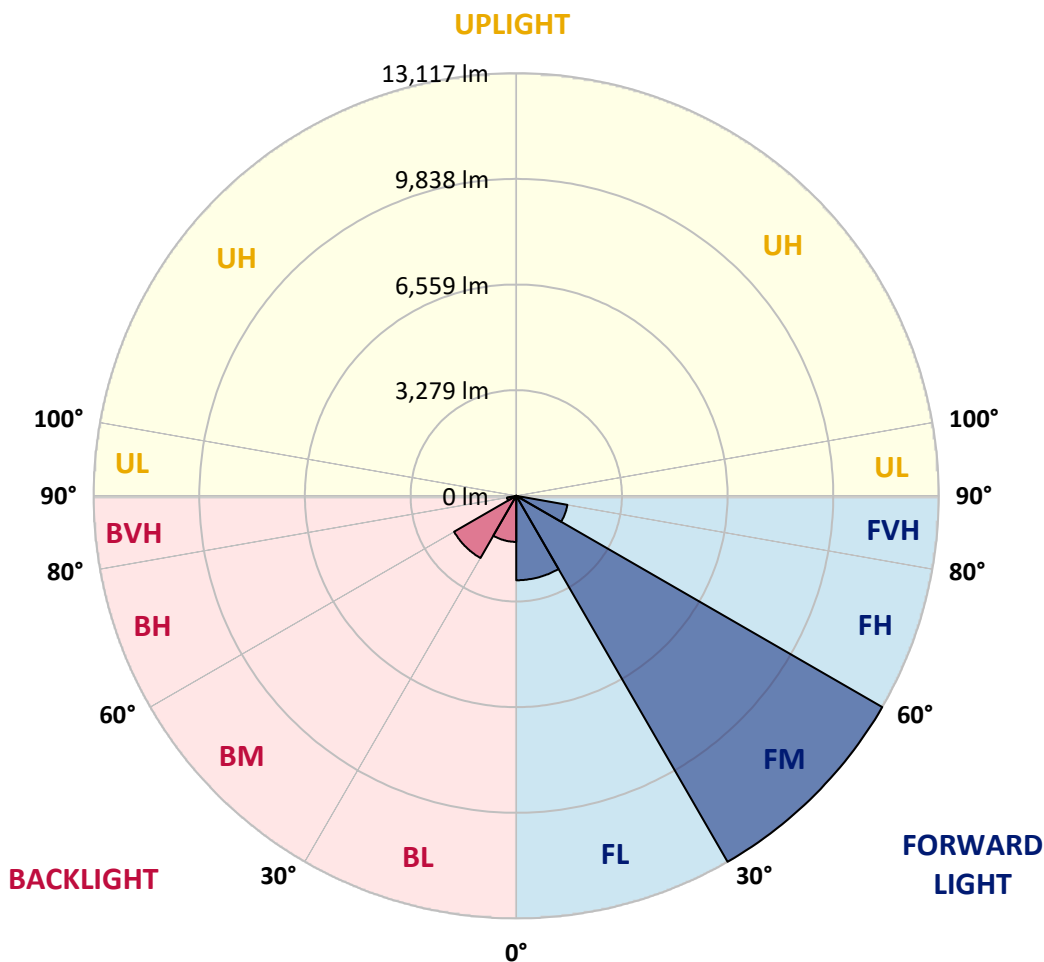
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2621.3  | 12.3      |                         |      |         |
| FM (30°-60°)   | 13117.3 | 61.5      |                         |      |         |
| FH (60°-80°)   | 1610.5  | 7.6       |                         |      | G1/1800 |
| FVH (80°-90°)  | 13.9    | 0.1       |                         |      | G1/100  |
| BL (0°-30°)    | 1429.0  | 6.7       | B3/2500                 |      |         |
| BM (30°-60°)   | 2227.9  | 10.4      | B2/2500                 |      |         |
| BH (60°-80°)   | 289.1   | 1.4       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 14.6    | 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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 78°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5482.3  | 5482.3  | 5482.3  | 5482.3  | 5482.3  | 5482.3  | 5482.3  | 5482.3  | 5482.3  | 5482.3  | 5482.3  |
| 2.5°  | 5154.4  | 5204.0  | 5211.6  | 5272.6  | 5268.8  | 5371.7  | 5402.2  | 5406.0  | 5474.7  | 5440.3  | 5528.1  |
| 5°    | 5009.6  | 4982.8  | 4971.4  | 5078.2  | 5108.7  | 5200.2  | 5276.4  | 5322.2  | 5463.2  | 5512.8  | 5604.3  |
| 7.5°  | 4879.9  | 4879.9  | 4887.6  | 4982.8  | 4971.4  | 5089.6  | 5169.7  | 5310.7  | 5516.6  | 5558.6  | 5669.1  |
| 10°   | 4754.1  | 4708.3  | 4765.5  | 4864.7  | 4948.5  | 5001.9  | 5169.7  | 5303.1  | 5543.3  | 5665.3  | 5817.8  |
| 12.5° | 4689.3  | 4712.2  | 4719.8  | 4792.3  | 4883.8  | 5043.9  | 5135.4  | 5356.5  | 5733.9  | 5806.3  | 5970.3  |
| 15°   | 5097.2  | 5051.5  | 4941.0  | 4876.1  | 4952.4  | 5028.6  | 5257.3  | 5482.3  | 5833.0  | 5935.9  | 6118.9  |
| 17.5° | 5569.9  | 5531.8  | 5440.3  | 5265.0  | 5093.4  | 5234.5  | 5413.7  | 5619.6  | 5939.8  | 6092.3  | 6363.0  |
| 20°   | 6187.6  | 6126.6  | 6035.1  | 5692.0  | 5543.3  | 5390.8  | 5581.4  | 5825.4  | 6115.2  | 6252.4  | 6530.7  |
| 22.5° | 6923.4  | 6923.4  | 6717.6  | 6301.9  | 5993.1  | 5848.3  | 5928.4  | 6069.4  | 6309.6  | 6496.4  | 6770.9  |
| 25°   | 7689.7  | 7666.8  | 7480.0  | 7049.2  | 6526.9  | 6355.4  | 6446.9  | 6546.0  | 6610.8  | 6713.7  | 6896.7  |
| 27.5° | 8566.6  | 8433.1  | 8196.7  | 7720.2  | 7258.9  | 6927.2  | 7026.3  | 6938.7  | 6858.6  | 6911.9  | 7175.0  |
| 30°   | 9161.3  | 9245.2  | 8944.0  | 8486.5  | 8051.9  | 7682.1  | 7701.1  | 7624.9  | 7258.9  | 7335.1  | 7491.5  |
| 32.5° | 9778.9  | 9832.3  | 9664.5  | 9412.9  | 8978.3  | 8547.5  | 8391.2  | 8326.4  | 8051.9  | 8086.2  | 7933.7  |
| 35°   | 10293.6 | 10396.5 | 10247.8 | 10137.3 | 10011.5 | 9664.5  | 9233.8  | 9443.4  | 9001.2  | 8917.3  | 8520.8  |
| 37.5° | 10766.3 | 10735.9 | 10911.2 | 10796.8 | 10770.2 | 10526.1 | 10053.4 | 10095.4 | 9798.0  | 9778.9  | 9321.4  |
| 40°   | 11189.5 | 11197.2 | 11437.3 | 11490.8 | 11383.9 | 10949.3 | 10263.1 | 10594.7 | 10834.9 | 10857.8 | 10270.7 |
| 42.5° | 11540.3 | 11643.2 | 11849.1 | 12279.9 | 12119.7 | 11395.4 | 10480.5 | 10842.6 | 11734.7 | 11875.8 | 11170.5 |
| 45°   | 11845.2 | 12055.0 | 12310.4 | 12695.5 | 12604.0 | 12028.2 | 11021.8 | 11353.5 | 12695.5 | 13065.3 | 12016.8 |
| 47.5° | 11864.3 | 12138.8 | 12417.1 | 12989.0 | 13103.4 | 12367.6 | 11582.3 | 12161.7 | 13457.9 | 13858.3 | 12634.4 |
| 50°   | 11788.0 | 11932.9 | 12489.6 | 13111.0 | 13370.2 | 12920.4 | 12367.6 | 12840.3 | 14197.6 | 14449.1 | 12947.1 |
| 52.5° | 10884.6 | 10995.1 | 12112.2 | 13225.4 | 13850.6 | 13545.7 | 13408.4 | 13785.8 | 14952.4 | 15139.3 | 13240.6 |
| 55°   | 9073.6  | 9054.5  | 10591.0 | 12649.7 | 14071.8 | 14472.0 | 14388.2 | 14521.6 | 15825.4 | 15993.2 | 13313.0 |
| 57.5° | 6206.7  | 6553.6  | 7880.3  | 10533.8 | 12718.4 | 14254.7 | 14342.4 | 14121.3 | 14807.6 | 14872.3 | 11605.1 |
| 60°   | 3347.3  | 3492.2  | 4559.6  | 7030.2  | 9683.6  | 11616.6 | 11845.2 | 11445.0 | 11391.6 | 11208.6 | 8284.4  |
| 62.5° | 1330.5  | 1403.0  | 2009.1  | 3480.7  | 5276.4  | 7060.6  | 7552.4  | 7388.5  | 7037.7  | 6557.4  | 4289.0  |
| 65°   | 632.9   | 678.6   | 998.9   | 1627.9  | 2340.8  | 2943.2  | 3435.0  | 3587.5  | 2645.9  | 2382.8  | 1414.4  |
| 67.5° | 430.8   | 465.2   | 728.1   | 930.2   | 834.9   | 873.0   | 1136.1  | 1056.0  | 621.4   | 529.9   | 392.7   |
| 70°   | 327.9   | 350.8   | 583.3   | 632.9   | 373.7   | 263.1   | 293.6   | 274.5   | 255.4   | 259.3   | 255.4   |
| 72.5° | 232.5   | 251.6   | 427.0   | 373.7   | 163.9   | 122.0   | 156.3   | 186.8   | 186.8   | 186.8   | 183.0   |
| 75°   | 141.0   | 160.1   | 247.8   | 144.9   | 64.8    | 64.8    | 99.2    | 125.8   | 133.5   | 137.3   | 129.6   |
| 77.5° | 72.4    | 91.5    | 83.8    | 42.0    | 42.0    | 49.5    | 72.4    | 87.7    | 95.3    | 95.3    | 91.5    |
| 80°   | 15.2    | 15.2    | 15.2    | 22.9    | 42.0    | 53.4    | 72.4    | 80.1    | 91.5    | 91.5    | 83.8    |
| 82.5° | 0.0     | 3.8     | 11.4    | 22.9    | 38.1    | 49.5    | 68.6    | 80.1    | 91.5    | 95.3    | 87.7    |
| 85°   | 0.0     | 3.8     | 7.7     | 15.2    | 26.7    | 30.5    | 26.7    | 22.9    | 22.9    | 22.9    | 22.9    |
| 87.5° | 0.0     | 0.0     | 3.8     | 3.8     | 3.8     | 7.7     | 7.7     | 7.7     | 7.7     | 7.7     | 7.7     |
| 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°    | 5482.3 | 5482.3 | 5482.3 | 5482.3 | 5482.3 | 5482.3 | 5482.3 | 5482.3 | 5482.3 | 5482.3 | 5482.3 |
| 2.5°  | 5535.7 | 5547.2 | 5528.1 | 5524.3 | 5509.0 | 5554.7 | 5444.2 | 5417.5 | 5486.1 | 5421.3 | 5436.6 |
| 5°    | 5608.1 | 5634.8 | 5600.5 | 5543.3 | 5459.4 | 5329.8 | 5219.2 | 5074.3 | 5005.7 | 4956.2 | 4948.5 |
| 7.5°  | 5661.4 | 5680.5 | 5646.2 | 5463.2 | 5211.6 | 4883.8 | 4639.7 | 4460.6 | 4319.5 | 4277.6 | 4209.0 |
| 10°   | 5878.8 | 5882.6 | 5711.1 | 5307.0 | 4815.1 | 4384.3 | 4010.7 | 3736.2 | 3595.1 | 3507.5 | 3469.3 |
| 12.5° | 6023.7 | 6016.0 | 5669.1 | 4998.1 | 4342.3 | 3770.5 | 3343.5 | 3011.9 | 2882.2 | 2840.3 | 2813.6 |
| 15°   | 6206.7 | 6164.7 | 5569.9 | 4681.7 | 3732.4 | 3114.7 | 2729.7 | 2501.0 | 2489.5 | 2462.9 | 2489.5 |
| 17.5° | 6351.6 | 6233.3 | 5425.1 | 4106.0 | 3149.0 | 2565.8 | 2314.2 | 2329.4 | 2359.9 | 2386.6 | 2390.4 |
| 20°   | 6587.9 | 6343.9 | 5093.4 | 3602.8 | 2607.7 | 2199.8 | 2195.9 | 2264.6 | 2340.8 | 2371.4 | 2401.8 |
| 22.5° | 6767.1 | 6389.7 | 4738.9 | 3065.2 | 2165.5 | 2051.1 | 2115.9 | 2218.8 | 2276.0 | 2306.5 | 2352.3 |
| 25°   | 6831.9 | 6263.9 | 4266.1 | 2527.6 | 1952.0 | 1982.5 | 2081.6 | 2150.2 | 2222.7 | 2257.0 | 2237.9 |
| 27.5° | 6896.7 | 6199.0 | 3701.9 | 2081.6 | 1837.6 | 1936.7 | 2020.6 | 2089.2 | 2112.1 | 2157.8 | 2188.4 |
| 30°   | 7053.0 | 5974.1 | 3194.8 | 1799.5 | 1780.4 | 1906.2 | 1967.2 | 1990.1 | 2051.1 | 2077.8 | 2077.8 |
| 32.5° | 7178.9 | 5886.4 | 2657.3 | 1666.0 | 1772.8 | 1921.4 | 1929.1 | 1929.1 | 1936.7 | 1917.6 | 1910.0 |
| 35°   | 7438.1 | 5585.2 | 2176.9 | 1586.0 | 1769.0 | 1925.3 | 1944.3 | 1879.6 | 1704.2 | 1635.6 | 1616.5 |
| 37.5° | 7758.3 | 5390.8 | 1822.4 | 1567.0 | 1795.7 | 1971.1 | 2001.5 | 1757.5 | 1528.8 | 1418.3 | 1399.2 |
| 40°   | 8147.2 | 5253.6 | 1589.8 | 1559.3 | 1856.7 | 2077.8 | 1986.3 | 1662.2 | 1364.9 | 1204.7 | 1197.1 |
| 42.5° | 8600.9 | 5127.7 | 1433.5 | 1555.5 | 1932.9 | 2188.4 | 1971.1 | 1582.2 | 1197.1 | 1090.4 | 1105.6 |
| 45°   | 8963.0 | 5059.1 | 1326.8 | 1528.8 | 1959.6 | 2253.1 | 1982.5 | 1441.1 | 1128.5 | 1059.8 | 1067.5 |
| 47.5° | 9245.2 | 4914.2 | 1239.0 | 1483.0 | 1955.7 | 2276.0 | 1879.6 | 1383.9 | 1094.1 | 1113.2 | 1132.3 |
| 50°   | 9252.9 | 4719.8 | 1128.5 | 1383.9 | 1898.6 | 2234.1 | 1761.4 | 1330.5 | 1086.6 | 1166.6 | 1204.7 |
| 52.5° | 9149.9 | 4445.3 | 1010.3 | 1242.8 | 1765.2 | 2089.2 | 1654.6 | 1307.7 | 1052.3 | 1044.6 | 1090.4 |
| 55°   | 8783.9 | 3930.7 | 812.1  | 1006.5 | 1490.7 | 1723.2 | 1559.3 | 1265.7 | 949.3  | 861.6  | 869.3  |
| 57.5° | 7098.8 | 2817.4 | 598.5  | 720.6  | 1056.0 | 1261.9 | 1406.8 | 1246.7 | 854.0  | 732.0  | 735.8  |
| 60°   | 4395.7 | 1597.4 | 438.4  | 491.8  | 651.9  | 766.3  | 1139.9 | 1159.0 | 762.5  | 617.6  | 610.0  |
| 62.5° | 2257.0 | 789.2  | 339.3  | 346.9  | 400.3  | 449.9  | 781.5  | 972.2  | 690.0  | 587.1  | 587.1  |
| 65°   | 754.9  | 388.9  | 297.4  | 266.8  | 266.8  | 278.3  | 472.7  | 674.8  | 583.3  | 491.8  | 491.8  |
| 67.5° | 324.0  | 289.7  | 259.3  | 232.5  | 213.5  | 202.1  | 266.8  | 392.7  | 434.6  | 373.7  | 358.4  |
| 70°   | 251.6  | 244.0  | 225.0  | 194.4  | 167.8  | 152.5  | 156.3  | 202.1  | 247.8  | 240.2  | 232.5  |
| 72.5° | 186.8  | 186.8  | 179.2  | 152.5  | 129.6  | 110.6  | 102.9  | 106.7  | 118.2  | 122.0  | 125.8  |
| 75°   | 129.6  | 133.5  | 133.5  | 118.2  | 95.3   | 80.1   | 68.6   | 57.2   | 45.8   | 38.1   | 34.3   |
| 77.5° | 87.7   | 91.5   | 99.2   | 87.7   | 72.4   | 53.4   | 42.0   | 30.5   | 19.1   | 7.7    | 7.7    |
| 80°   | 76.3   | 87.7   | 95.3   | 87.7   | 76.3   | 57.2   | 42.0   | 22.9   | 11.4   | 0.0    | 0.0    |
| 82.5° | 80.1   | 87.7   | 99.2   | 83.8   | 72.4   | 53.4   | 42.0   | 26.7   | 11.4   | 3.8    | 0.0    |
| 85°   | 19.1   | 19.1   | 22.9   | 26.7   | 34.3   | 38.1   | 30.5   | 19.1   | 11.4   | 3.8    | 0.0    |
| 87.5° | 7.7    | 7.7    | 7.7    | 7.7    | 7.7    | 3.8    | 3.8    | 3.8    | 3.8    | 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)