

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: P530113

Luminaire Tested: **GALN-SA5B-740-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530113  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5B-740-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18846 lumens  
Efficiency: N/A  
Efficacy: 92.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B2 - U0 - G1

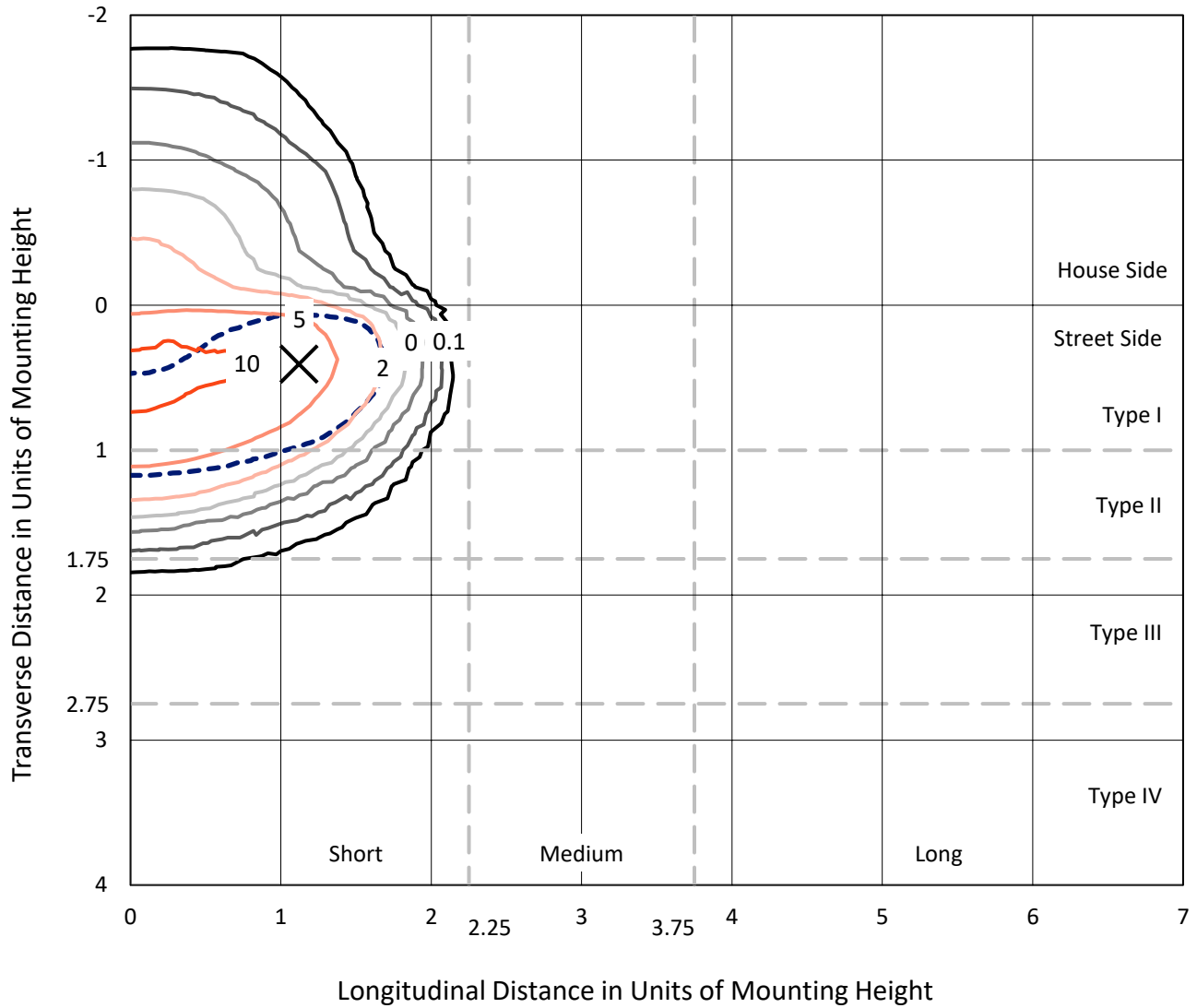
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

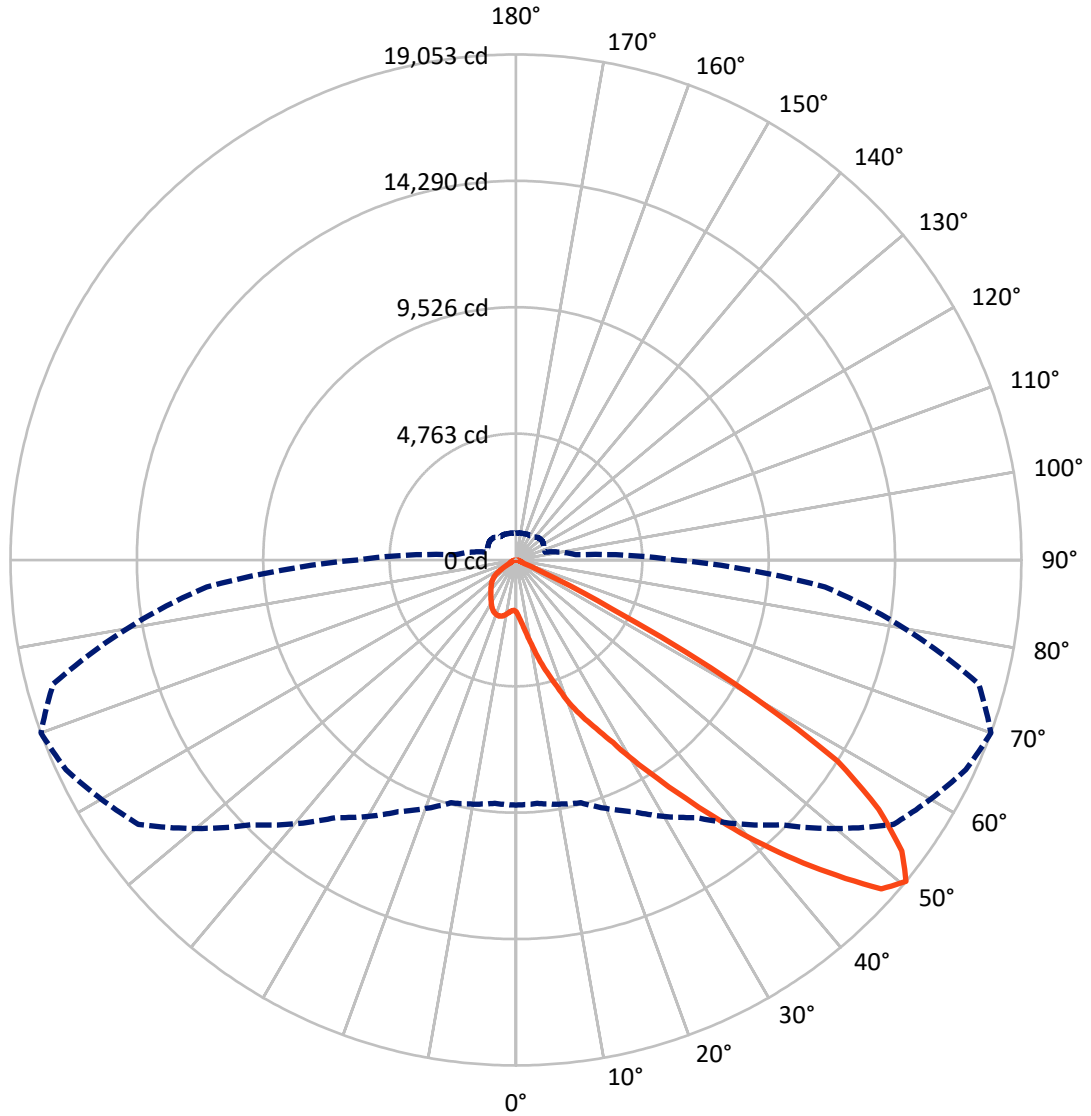
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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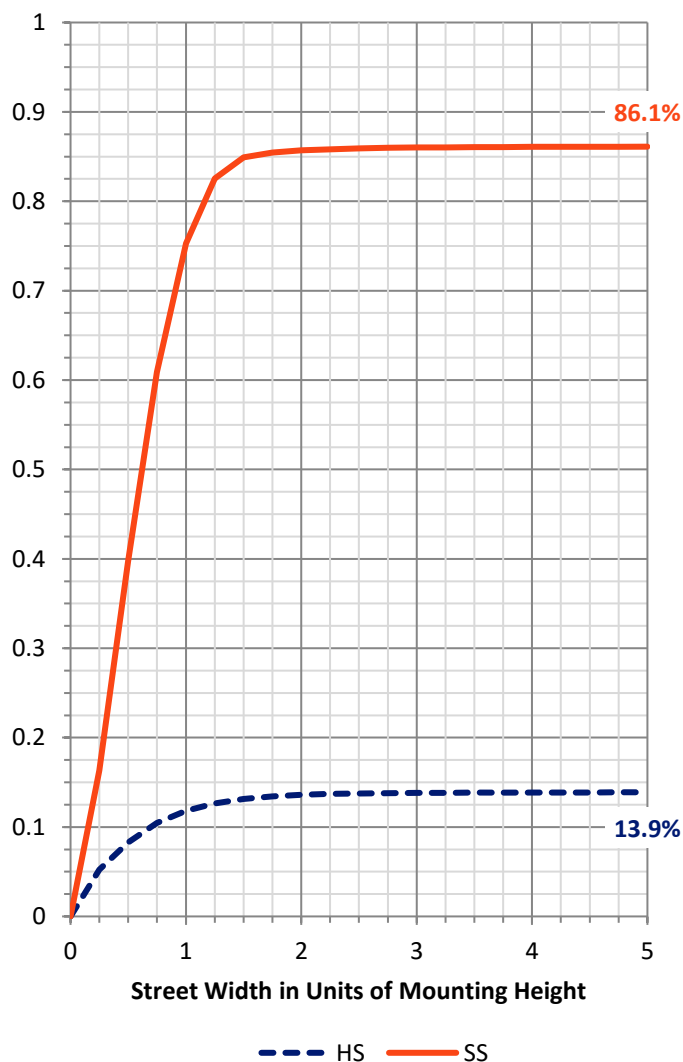
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2632.0   | 0.0    | 2632.0  |
|                    | % Fixture | 14.0     | 0.0    | 14.0    |
| <b>Street Side</b> | Lumens    | 16214.0  | 0.0    | 16214.0 |
|                    | % Fixture | 86.0     | 0.0    | 86.0    |
| <b>Total</b>       | Lumens    | 18846.0  | 0.0    | 18846.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 253.8   | 1.3       |
| 10°-20°   | 1098.0  | 5.8       |
| 20°-30°   | 2303.5  | 12.2      |
| 30°-40°   | 3970.4  | 21.1      |
| 40°-50°   | 5802.7  | 30.8      |
| 50°-60°   | 4519.4  | 24.0      |
| 60°-70°   | 765.7   | 4.1       |
| 70°-80°   | 105.2   | 0.6       |
| 80°-90°   | 27.3    | 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°    | 18846.0 | 100.0     |
| 0°-180°   | 18846.0 | 100.0     |

**Coefficient of Utilization**



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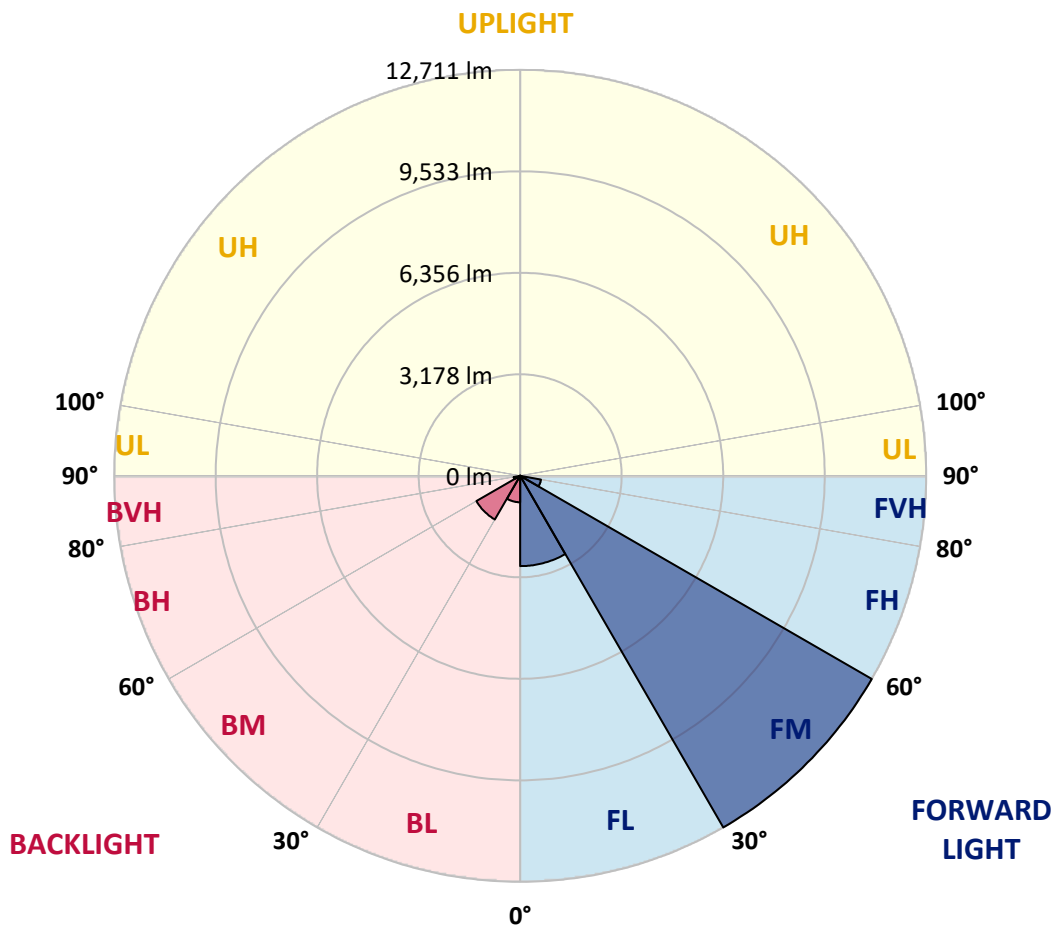
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2827.1  | 15.0      |                         |      |         |
| FM (30°-60°)   | 12711.3 | 67.4      |                         |      |         |
| FH (60°-80°)   | 663.0   | 3.5       |                         |      | G1/1800 |
| FVH (80°-90°)  | 12.6    | 0.1       |                         |      | G1/100  |
| BL (0°-30°)    | 828.2   | 4.4       | B2/1000                 |      |         |
| BM (30°-60°)   | 1581.2  | 8.4       | B2/2500                 |      |         |
| BH (60°-80°)   | 207.9   | 1.1       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 14.7    | 0.1       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 70°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 1952.1  | 1952.1  | 1952.1  | 1952.1  | 1952.1  | 1952.1  | 1952.1  | 1952.1  | 1952.1  | 1952.1  | 1952.1  |
| 2.5°  | 2556.3  | 2537.7  | 2497.4  | 2423.1  | 2392.1  | 2317.7  | 2274.3  | 2190.7  | 2138.0  | 2079.1  | 2014.0  |
| 5°    | 3600.5  | 3504.4  | 3445.6  | 3361.9  | 3117.1  | 2965.3  | 2714.3  | 2500.5  | 2401.4  | 2292.9  | 2144.2  |
| 7.5°  | 4678.8  | 4616.8  | 4536.2  | 4356.5  | 4189.2  | 3873.2  | 3442.5  | 2971.5  | 2770.1  | 2584.2  | 2289.8  |
| 10°   | 5571.2  | 5397.6  | 5388.3  | 5255.1  | 5072.3  | 4694.3  | 4176.8  | 3591.2  | 3231.8  | 2959.1  | 2497.4  |
| 12.5° | 6194.0  | 6035.9  | 6107.2  | 6091.7  | 5921.3  | 5574.3  | 4976.2  | 4201.6  | 3826.7  | 3402.2  | 2711.2  |
| 15°   | 6761.0  | 6695.9  | 6674.2  | 6655.6  | 6587.5  | 6330.3  | 5794.3  | 4945.3  | 4403.0  | 3891.8  | 2952.9  |
| 17.5° | 7315.6  | 7148.3  | 7228.9  | 7244.4  | 7238.2  | 7005.8  | 6503.8  | 5651.7  | 5013.4  | 4409.2  | 3207.0  |
| 20°   | 7808.3  | 7823.8  | 7715.3  | 7693.7  | 7675.1  | 7665.8  | 7176.2  | 6352.0  | 5763.3  | 4951.5  | 3538.5  |
| 22.5° | 8440.4  | 8331.9  | 8428.0  | 8366.0  | 8245.2  | 8170.8  | 7795.9  | 6971.7  | 6414.0  | 5605.2  | 3876.3  |
| 25°   | 9187.1  | 9273.9  | 9047.7  | 9022.9  | 8889.7  | 8632.5  | 8294.8  | 7665.8  | 7039.9  | 6212.6  | 4241.9  |
| 27.5° | 10107.4 | 9955.6  | 9896.7  | 9760.4  | 9518.7  | 9410.2  | 9013.6  | 8381.5  | 7795.9  | 6850.9  | 4595.1  |
| 30°   | 10897.5 | 10857.3 | 10562.9 | 10401.8 | 10191.1 | 10188.0 | 9633.3  | 9351.4  | 8781.2  | 7851.7  | 5081.6  |
| 32.5° | 11542.0 | 11365.4 | 11257.0 | 11145.4 | 10975.0 | 11021.5 | 10553.6 | 10404.9 | 9831.6  | 8781.2  | 5654.8  |
| 35°   | 11972.7 | 11845.7 | 11780.6 | 11610.2 | 11560.6 | 11768.2 | 11573.0 | 11511.0 | 11040.1 | 10088.8 | 6327.2  |
| 37.5° | 12109.1 | 12149.3 | 12136.9 | 11923.1 | 12028.5 | 12589.3 | 12840.3 | 12679.2 | 12431.3 | 11467.7 | 7055.4  |
| 40°   | 12229.9 | 12257.8 | 12195.8 | 12446.8 | 12747.4 | 13385.7 | 14293.5 | 14027.0 | 13934.1 | 12865.1 | 8068.6  |
| 42.5° | 12298.1 | 12276.4 | 12276.4 | 12710.2 | 13165.7 | 14448.4 | 15697.2 | 15520.5 | 15449.3 | 14352.4 | 9239.8  |
| 45°   | 12003.7 | 11793.0 | 12019.2 | 12607.9 | 13525.1 | 14972.1 | 16818.8 | 17063.6 | 16961.4 | 16121.7 | 10609.4 |
| 47.5° | 10903.7 | 11033.9 | 11160.9 | 11947.9 | 13088.2 | 14811.0 | 17506.7 | 18340.2 | 18529.2 | 17609.0 | 11507.9 |
| 50°   | 9239.8  | 9211.9  | 9475.3  | 10466.8 | 11851.9 | 14116.9 | 17373.5 | 18708.9 | 19052.9 | 18055.1 | 11697.0 |
| 52.5° | 6720.7  | 6925.2  | 7210.3  | 8195.6  | 9837.8  | 12319.8 | 15653.8 | 17757.7 | 18216.3 | 17506.7 | 11573.0 |
| 55°   | 3913.4  | 3687.3  | 4328.6  | 5162.2  | 6711.4  | 9292.5  | 13233.8 | 15740.5 | 16589.5 | 16509.0 | 10947.1 |
| 57.5° | 1567.9  | 1518.3  | 1738.3  | 2342.5  | 3501.3  | 5760.2  | 9624.0  | 12933.3 | 14293.5 | 15120.8 | 9620.9  |
| 60°   | 687.9   | 672.4   | 790.1   | 954.3   | 1431.5  | 2655.4  | 5264.4  | 8043.8  | 9462.9  | 10566.0 | 6621.6  |
| 62.5° | 495.8   | 489.6   | 548.4   | 607.3   | 756.0   | 1155.8  | 2212.4  | 3241.1  | 4040.5  | 4880.2  | 2965.3  |
| 65°   | 399.7   | 415.2   | 455.5   | 486.5   | 557.7   | 641.4   | 780.8   | 901.7   | 1106.2  | 1146.5  | 653.8   |
| 67.5° | 325.3   | 337.7   | 374.9   | 409.0   | 421.4   | 347.0   | 359.4   | 316.1   | 316.1   | 282.0   | 226.2   |
| 70°   | 238.6   | 241.7   | 285.1   | 325.3   | 260.3   | 139.4   | 244.8   | 244.8   | 220.0   | 210.7   | 192.1   |
| 72.5° | 176.6   | 179.7   | 213.8   | 201.4   | 102.3   | 86.8    | 179.7   | 198.3   | 179.7   | 170.4   | 154.9   |
| 75°   | 130.1   | 133.2   | 111.5   | 46.5    | 43.4    | 55.8    | 105.4   | 136.3   | 130.1   | 127.0   | 117.7   |
| 77.5° | 24.8    | 18.6    | 15.5    | 21.7    | 31.0    | 46.5    | 68.2    | 83.7    | 86.8    | 93.0    | 86.8    |
| 80°   | 3.1     | 3.1     | 9.3     | 18.6    | 34.1    | 49.6    | 71.3    | 80.6    | 83.7    | 86.8    | 80.6    |
| 82.5° | 0.0     | 3.1     | 9.3     | 18.6    | 34.1    | 46.5    | 62.0    | 71.3    | 77.5    | 80.6    | 77.5    |
| 85°   | 0.0     | 3.1     | 6.2     | 15.5    | 27.9    | 34.1    | 31.0    | 21.7    | 18.6    | 21.7    | 15.5    |
| 87.5° | 0.0     | 0.0     | 3.1     | 3.1     | 6.2     | 6.2     | 6.2     | 6.2     | 6.2     | 6.2     | 6.2     |
| 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°    | 1952.1 | 1952.1 | 1952.1 | 1952.1 | 1952.1 | 1952.1 | 1952.1 | 1952.1 | 1952.1 | 1952.1 | 1952.1 |
| 2.5°  | 1976.9 | 1964.5 | 1921.1 | 1874.6 | 1834.3 | 1852.9 | 1834.3 | 1818.8 | 1825.0 | 1818.8 | 1812.6 |
| 5°    | 2085.3 | 2029.5 | 1936.6 | 1896.3 | 1862.2 | 1859.1 | 1849.8 | 1846.7 | 1849.8 | 1849.8 | 1821.9 |
| 7.5°  | 2187.6 | 2097.7 | 1998.6 | 1955.2 | 1914.9 | 1918.0 | 1896.3 | 1896.3 | 1893.2 | 1877.7 | 1871.5 |
| 10°   | 2342.5 | 2221.6 | 2094.6 | 2017.1 | 1967.6 | 1958.3 | 1936.6 | 1914.9 | 1914.9 | 1914.9 | 1883.9 |
| 12.5° | 2512.9 | 2361.1 | 2187.6 | 2097.7 | 2038.8 | 1992.4 | 1958.3 | 1952.1 | 1918.0 | 1911.8 | 1896.3 |
| 15°   | 2661.6 | 2469.5 | 2249.5 | 2125.6 | 2051.2 | 1989.3 | 1936.6 | 1902.5 | 1887.0 | 1877.7 | 1865.3 |
| 17.5° | 2807.3 | 2562.5 | 2283.6 | 2125.6 | 2045.0 | 1973.8 | 1918.0 | 1887.0 | 1849.8 | 1856.0 | 1831.2 |
| 20°   | 3002.5 | 2661.6 | 2292.9 | 2085.3 | 1986.2 | 1918.0 | 1843.6 | 1828.1 | 1806.4 | 1787.9 | 1794.0 |
| 22.5° | 3191.5 | 2732.9 | 2265.0 | 2035.7 | 1893.2 | 1812.6 | 1775.5 | 1756.9 | 1747.6 | 1732.1 | 1710.4 |
| 25°   | 3361.9 | 2810.4 | 2221.6 | 1945.9 | 1794.0 | 1735.2 | 1701.1 | 1698.0 | 1676.3 | 1676.3 | 1636.0 |
| 27.5° | 3535.4 | 2838.3 | 2147.3 | 1840.5 | 1707.3 | 1673.2 | 1657.7 | 1651.5 | 1642.2 | 1620.5 | 1592.6 |
| 30°   | 3733.7 | 2847.5 | 2038.8 | 1732.1 | 1629.8 | 1592.6 | 1614.3 | 1629.8 | 1589.5 | 1549.3 | 1561.7 |
| 32.5° | 3898.0 | 2825.9 | 1908.7 | 1629.8 | 1574.1 | 1555.5 | 1598.8 | 1614.3 | 1567.9 | 1524.5 | 1502.8 |
| 35°   | 4096.3 | 2773.2 | 1781.7 | 1549.3 | 1518.3 | 1555.5 | 1592.6 | 1592.6 | 1499.7 | 1447.0 | 1434.6 |
| 37.5° | 4396.8 | 2714.3 | 1663.9 | 1481.1 | 1459.4 | 1536.9 | 1586.4 | 1552.4 | 1406.7 | 1341.7 | 1326.2 |
| 40°   | 4719.1 | 2677.1 | 1549.3 | 1412.9 | 1428.4 | 1505.9 | 1533.8 | 1428.4 | 1279.7 | 1239.4 | 1227.0 |
| 42.5° | 5186.9 | 2602.8 | 1447.0 | 1354.1 | 1400.5 | 1462.5 | 1462.5 | 1273.5 | 1217.7 | 1196.0 | 1192.9 |
| 45°   | 5769.5 | 2550.1 | 1357.2 | 1304.5 | 1360.3 | 1375.7 | 1326.2 | 1192.9 | 1152.7 | 1146.5 | 1149.6 |
| 47.5° | 6054.5 | 2447.8 | 1264.2 | 1245.6 | 1285.9 | 1289.0 | 1158.9 | 1127.9 | 1093.8 | 1084.5 | 1078.3 |
| 50°   | 6011.2 | 2265.0 | 1143.4 | 1168.1 | 1223.9 | 1192.9 | 1056.6 | 1062.8 | 1031.8 | 1028.7 | 1013.2 |
| 52.5° | 5707.5 | 1976.9 | 1022.5 | 1081.4 | 1143.4 | 1053.5 | 972.9  | 966.7  | 966.7  | 926.5  | 911.0  |
| 55°   | 5059.9 | 1592.6 | 876.9  | 951.2  | 1025.6 | 886.2  | 864.5  | 858.3  | 842.8  | 805.6  | 796.3  |
| 57.5° | 4006.4 | 1168.1 | 660.0  | 740.5  | 870.7  | 752.9  | 749.8  | 722.0  | 681.7  | 653.8  | 653.8  |
| 60°   | 2382.8 | 672.4  | 415.2  | 452.4  | 576.3  | 610.4  | 678.6  | 666.2  | 598.0  | 554.6  | 542.2  |
| 62.5° | 1087.6 | 347.0  | 263.4  | 269.6  | 309.9  | 396.6  | 532.9  | 616.6  | 520.6  | 446.2  | 440.0  |
| 65°   | 365.6  | 257.2  | 216.9  | 207.6  | 213.8  | 238.6  | 319.1  | 436.9  | 415.2  | 343.9  | 331.5  |
| 67.5° | 223.1  | 229.3  | 204.5  | 189.0  | 189.0  | 185.9  | 182.8  | 198.3  | 244.8  | 238.6  | 241.7  |
| 70°   | 192.1  | 210.7  | 189.0  | 170.4  | 164.2  | 154.9  | 130.1  | 108.4  | 93.0   | 108.4  | 114.6  |
| 72.5° | 154.9  | 167.3  | 161.1  | 145.6  | 130.1  | 117.7  | 93.0   | 71.3   | 52.7   | 46.5   | 46.5   |
| 75°   | 114.6  | 123.9  | 130.1  | 111.5  | 99.2   | 83.7   | 68.2   | 46.5   | 27.9   | 18.6   | 18.6   |
| 77.5° | 83.7   | 93.0   | 96.1   | 86.8   | 74.4   | 58.9   | 43.4   | 31.0   | 15.5   | 6.2    | 6.2    |
| 80°   | 71.3   | 83.7   | 93.0   | 86.8   | 77.5   | 55.8   | 40.3   | 21.7   | 12.4   | 3.1    | 3.1    |
| 82.5° | 68.2   | 83.7   | 93.0   | 83.7   | 74.4   | 52.7   | 40.3   | 24.8   | 9.3    | 3.1    | 3.1    |
| 85°   | 15.5   | 21.7   | 27.9   | 34.1   | 40.3   | 40.3   | 31.0   | 18.6   | 9.3    | 3.1    | 3.1    |
| 87.5° | 6.2    | 6.2    | 6.2    | 6.2    | 6.2    | 6.2    | 6.2    | 6.2    | 3.1    | 3.1    | 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)