

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: P528967

Luminaire Tested: **GALN-SA4A-750-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528967  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4A-750-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10672 lumens  
Efficiency: N/A  
Efficacy: 88.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

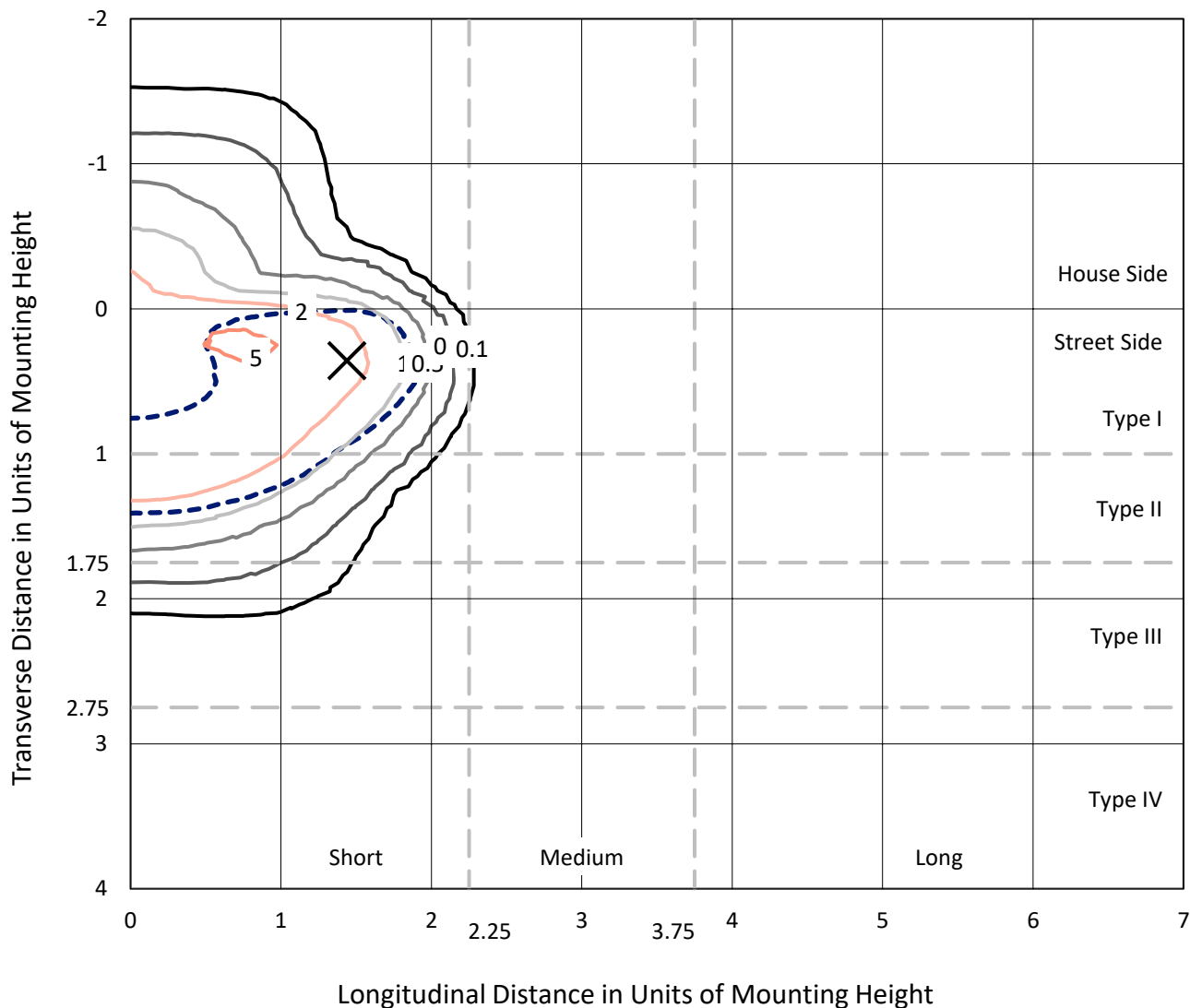
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

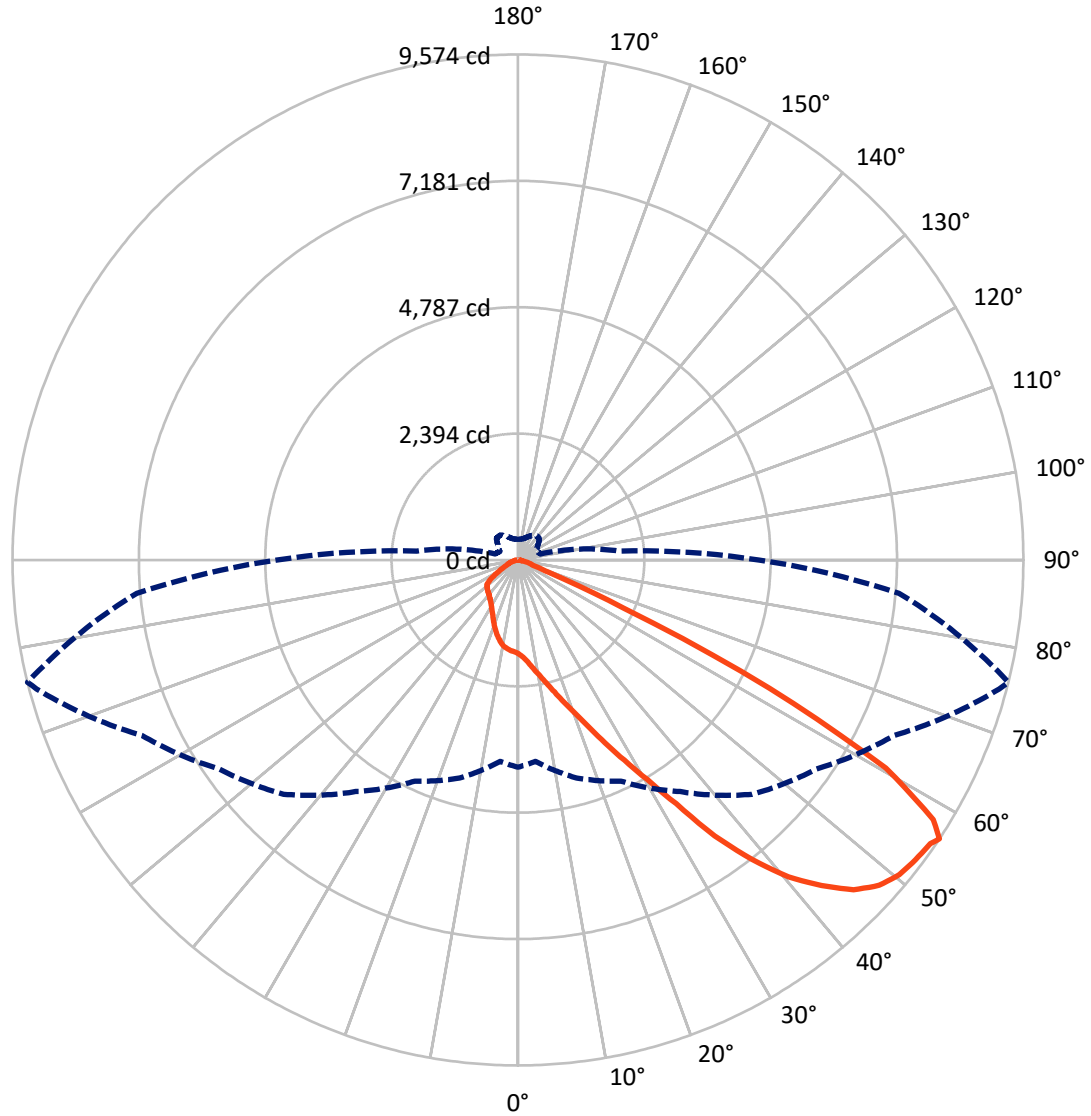
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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    | 1676.5   | 0.0    | 1676.5  |
|                    | % Fixture | 15.7     | 0.0    | 15.7    |
| <b>Street Side</b> | Lumens    | 8995.5   | 0.0    | 8995.5  |
|                    | % Fixture | 84.3     | 0.0    | 84.3    |
| <b>Total</b>       | Lumens    | 10672.0  | 0.0    | 10672.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 178.9   | 1.7       |
| 10°-20°   | 574.9   | 5.4       |
| 20°-30°   | 1042.4  | 9.8       |
| 30°-40°   | 1797.7  | 16.8      |
| 40°-50°   | 2920.4  | 27.4      |
| 50°-60°   | 3078.2  | 28.8      |
| 60°-70°   | 940.5   | 8.8       |
| 70°-80°   | 120.6   | 1.1       |
| 80°-90°   | 18.3    | 0.2       |
| 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°    | 10672.0 | 100.0     |
| 0°-180°   | 10672.0 | 100.0     |

**Coefficient of Utilization**

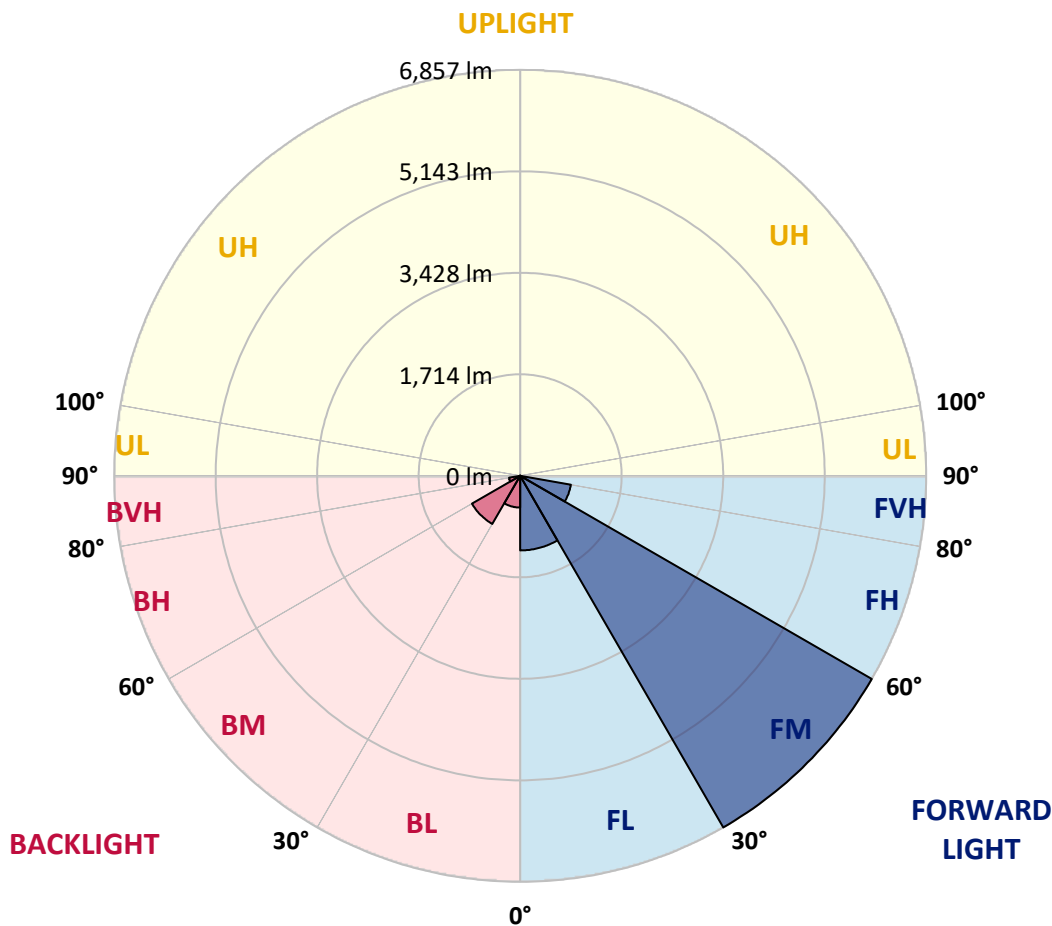


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1259.9 | 11.8      |                         |      |         |
| FM (30°-60°)   | 6856.7 | 64.2      |                         |      |         |
| FH (60°-80°)   | 869.8  | 8.2       |                         |      | G1/1800 |
| FVH (80°-90°)  | 9.0    | 0.1       |                         |      | G0/10   |
| BL (0°-30°)    | 536.3  | 5.0       | B2/1000                 |      |         |
| BM (30°-60°)   | 939.6  | 8.8       | B1/1000                 |      |         |
| BH (60°-80°)   | 191.3  | 1.8       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 9.3    | 0.1       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 76°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1776.4 | 1776.4 | 1776.4 | 1776.4 | 1776.4 | 1776.4 | 1776.4 | 1776.4 | 1776.4 | 1776.4 | 1776.4 |
| 2.5°  | 2045.9 | 1998.7 | 2000.6 | 1996.7 | 1990.8 | 1969.2 | 1904.2 | 1894.4 | 1851.1 | 1839.3 | 1800.0 |
| 5°    | 2291.8 | 2250.5 | 2274.1 | 2238.7 | 2205.2 | 2185.5 | 2079.3 | 2030.1 | 1961.3 | 1935.7 | 1880.6 |
| 7.5°  | 2445.2 | 2425.5 | 2417.7 | 2419.6 | 2388.2 | 2339.0 | 2291.8 | 2183.6 | 2091.1 | 2071.4 | 1955.4 |
| 10°   | 2520.0 | 2508.2 | 2520.0 | 2514.1 | 2527.8 | 2533.7 | 2451.1 | 2386.2 | 2250.5 | 2217.0 | 2036.0 |
| 12.5° | 2537.7 | 2561.3 | 2571.1 | 2596.7 | 2630.1 | 2687.2 | 2681.3 | 2592.8 | 2411.8 | 2390.1 | 2160.0 |
| 15°   | 2581.0 | 2600.6 | 2590.8 | 2632.1 | 2695.0 | 2791.4 | 2842.6 | 2828.8 | 2634.1 | 2594.7 | 2303.6 |
| 17.5° | 2620.3 | 2584.9 | 2618.3 | 2700.9 | 2763.9 | 2911.4 | 3035.4 | 3092.4 | 2876.0 | 2830.8 | 2435.4 |
| 20°   | 2673.4 | 2663.6 | 2657.7 | 2699.0 | 2811.1 | 3007.8 | 3253.7 | 3358.0 | 3147.5 | 3100.3 | 2624.2 |
| 22.5° | 2834.7 | 2836.7 | 2832.8 | 2771.8 | 2852.4 | 3074.7 | 3444.5 | 3702.2 | 3472.1 | 3432.7 | 2838.7 |
| 25°   | 3047.2 | 3021.6 | 3001.9 | 2952.7 | 2942.9 | 3135.7 | 3637.3 | 4123.2 | 3861.6 | 3834.0 | 3070.8 |
| 27.5° | 3271.4 | 3271.4 | 3212.4 | 3167.2 | 3104.2 | 3287.2 | 3814.4 | 4532.4 | 4331.7 | 4294.4 | 3273.4 |
| 30°   | 3515.4 | 3529.1 | 3521.3 | 3424.9 | 3385.5 | 3452.4 | 3995.4 | 5055.7 | 4870.8 | 4823.5 | 3607.8 |
| 32.5° | 3875.4 | 3845.9 | 3879.3 | 3798.6 | 3682.6 | 3741.6 | 4280.6 | 5523.9 | 5571.1 | 5504.2 | 4046.5 |
| 35°   | 4351.4 | 4333.7 | 4312.1 | 4180.3 | 4042.6 | 4089.8 | 4683.9 | 6100.2 | 6450.4 | 6417.0 | 4489.1 |
| 37.5° | 4778.3 | 4768.5 | 4750.8 | 4660.3 | 4500.9 | 4558.0 | 5142.2 | 6700.2 | 7308.1 | 7197.9 | 5114.7 |
| 40°   | 5226.8 | 5279.9 | 5222.9 | 5142.2 | 4996.7 | 5122.6 | 5681.2 | 7056.3 | 8030.1 | 7896.3 | 5592.7 |
| 42.5° | 5834.7 | 5793.4 | 5818.9 | 5671.4 | 5592.7 | 5730.4 | 6222.2 | 7412.4 | 8590.7 | 8431.4 | 6100.2 |
| 45°   | 6481.9 | 6483.9 | 6415.0 | 6367.8 | 6163.2 | 6312.7 | 6554.7 | 7609.1 | 9037.3 | 8913.3 | 6483.9 |
| 47.5° | 6897.0 | 6895.0 | 6969.7 | 7044.5 | 6834.0 | 6686.5 | 6780.9 | 7796.0 | 9267.4 | 9210.4 | 6623.5 |
| 50°   | 6832.0 | 6851.7 | 6948.1 | 7227.4 | 7337.6 | 7138.9 | 6993.4 | 7740.9 | 9371.7 | 9365.8 | 6743.5 |
| 52.5° | 5942.9 | 6007.8 | 6169.1 | 6572.4 | 7127.1 | 7373.0 | 7215.6 | 7843.2 | 9422.8 | 9432.7 | 6922.5 |
| 55°   | 4524.5 | 4559.9 | 4866.8 | 5356.7 | 5970.4 | 6812.4 | 7127.1 | 7923.8 | 9462.2 | 9479.9 | 7138.9 |
| 56°   | 3924.5 | 3830.1 | 4272.7 | 4620.9 | 5354.7 | 6275.3 | 6902.9 | 7860.9 | 9438.6 | 9574.3 | 7247.1 |
| 57.5° | 2962.6 | 2899.6 | 3257.7 | 3692.4 | 4398.6 | 5370.4 | 6206.5 | 7563.8 | 9279.2 | 9277.3 | 7091.7 |
| 60°   | 1801.9 | 1739.0 | 2014.4 | 2270.1 | 2665.5 | 3306.8 | 4194.0 | 6023.5 | 7845.1 | 8010.4 | 5742.2 |
| 62.5° | 1072.1 | 1111.5 | 1382.9 | 1538.3 | 1666.2 | 1733.1 | 2169.8 | 3580.3 | 5234.7 | 5352.7 | 3562.6 |
| 65°   | 714.1  | 727.9  | 932.4  | 1188.2 | 1245.2 | 991.5  | 883.3  | 1449.8 | 2270.1 | 2197.3 | 1469.5 |
| 67.5° | 440.7  | 472.1  | 625.6  | 893.1  | 989.5  | 723.9  | 419.0  | 541.0  | 625.6  | 625.6  | 424.9  |
| 70°   | 267.5  | 283.3  | 417.0  | 607.9  | 678.7  | 466.2  | 304.9  | 304.9  | 301.0  | 295.1  | 253.8  |
| 72.5° | 127.9  | 137.7  | 212.5  | 312.8  | 318.7  | 245.9  | 236.1  | 257.7  | 251.8  | 249.8  | 210.5  |
| 75°   | 55.1   | 59.0   | 74.8   | 98.4   | 112.1  | 104.3  | 143.6  | 184.9  | 190.8  | 184.9  | 151.5  |
| 77.5° | 17.7   | 19.7   | 27.5   | 35.4   | 37.4   | 45.2   | 61.0   | 76.7   | 88.5   | 82.6   | 74.8   |
| 80°   | 2.0    | 3.9    | 7.9    | 17.7   | 27.5   | 35.4   | 45.2   | 51.1   | 57.0   | 57.0   | 53.1   |
| 82.5° | 2.0    | 2.0    | 7.9    | 15.7   | 25.6   | 33.4   | 43.3   | 49.2   | 57.0   | 59.0   | 55.1   |
| 85°   | 0.0    | 2.0    | 5.9    | 13.8   | 21.6   | 21.6   | 19.7   | 19.7   | 13.8   | 13.8   | 13.8   |
| 87.5° | 0.0    | 0.0    | 2.0    | 2.0    | 2.0    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    |
| 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°    | 1776.4 | 1776.4 | 1776.4 | 1776.4 | 1776.4 | 1776.4 | 1776.4 | 1776.4 | 1776.4 | 1776.4 | 1776.4 |
| 2.5°  | 1792.1 | 1788.2 | 1735.1 | 1701.6 | 1683.9 | 1648.5 | 1626.9 | 1611.1 | 1599.3 | 1585.6 | 1587.5 |
| 5°    | 1815.7 | 1801.9 | 1713.4 | 1652.4 | 1579.7 | 1540.3 | 1506.9 | 1479.3 | 1461.6 | 1457.7 | 1449.8 |
| 7.5°  | 1882.6 | 1809.8 | 1676.0 | 1565.9 | 1473.4 | 1434.1 | 1404.6 | 1386.9 | 1394.7 | 1377.0 | 1390.8 |
| 10°   | 1933.7 | 1825.6 | 1630.8 | 1471.5 | 1379.0 | 1349.5 | 1333.8 | 1347.5 | 1367.2 | 1359.3 | 1349.5 |
| 12.5° | 1996.7 | 1841.3 | 1558.0 | 1381.0 | 1294.4 | 1272.8 | 1300.3 | 1325.9 | 1365.2 | 1381.0 | 1361.3 |
| 15°   | 2067.5 | 1859.0 | 1465.6 | 1276.7 | 1221.6 | 1239.3 | 1286.5 | 1331.8 | 1371.1 | 1390.8 | 1402.6 |
| 17.5° | 2154.1 | 1853.1 | 1375.1 | 1194.1 | 1152.8 | 1203.9 | 1261.0 | 1302.3 | 1361.3 | 1390.8 | 1382.9 |
| 20°   | 2234.7 | 1833.4 | 1274.7 | 1111.5 | 1113.4 | 1160.6 | 1207.9 | 1274.7 | 1306.2 | 1345.6 | 1331.8 |
| 22.5° | 2311.4 | 1798.0 | 1170.5 | 1054.4 | 1054.4 | 1127.2 | 1150.8 | 1194.1 | 1221.6 | 1241.3 | 1239.3 |
| 25°   | 2419.6 | 1731.1 | 1083.9 | 999.3  | 1022.9 | 1070.2 | 1089.8 | 1103.6 | 1091.8 | 1107.5 | 1109.5 |
| 27.5° | 2496.4 | 1662.3 | 1013.1 | 950.2  | 993.4  | 1028.8 | 1022.9 | 1015.1 | 987.5  | 965.9  | 979.7  |
| 30°   | 2579.0 | 1581.6 | 952.1  | 916.7  | 940.3  | 971.8  | 948.2  | 924.6  | 881.3  | 845.9  | 847.9  |
| 32.5° | 2697.0 | 1544.2 | 899.0  | 877.4  | 908.8  | 912.8  | 887.2  | 851.8  | 808.5  | 775.1  | 773.1  |
| 35°   | 2917.3 | 1520.6 | 853.8  | 851.8  | 857.7  | 859.7  | 834.1  | 790.8  | 773.1  | 745.6  | 755.4  |
| 37.5° | 3137.7 | 1508.8 | 822.3  | 814.4  | 812.4  | 814.4  | 784.9  | 743.6  | 777.0  | 775.1  | 779.0  |
| 40°   | 3419.0 | 1561.9 | 777.0  | 767.2  | 769.2  | 769.2  | 731.8  | 720.0  | 779.0  | 784.9  | 786.9  |
| 42.5° | 3704.2 | 1628.8 | 747.5  | 716.1  | 723.9  | 723.9  | 704.3  | 690.5  | 731.8  | 692.5  | 686.5  |
| 45°   | 3952.1 | 1727.2 | 716.1  | 664.9  | 684.6  | 694.4  | 688.5  | 664.9  | 639.3  | 572.5  | 572.5  |
| 47.5° | 4032.7 | 1813.7 | 678.7  | 615.7  | 631.5  | 674.7  | 657.0  | 607.9  | 562.6  | 507.5  | 503.6  |
| 50°   | 4174.4 | 1908.2 | 649.2  | 558.7  | 592.1  | 645.2  | 627.5  | 578.4  | 527.2  | 487.9  | 489.8  |
| 52.5° | 4319.9 | 2016.4 | 594.1  | 491.8  | 533.1  | 621.6  | 621.6  | 566.6  | 487.9  | 460.3  | 456.4  |
| 55°   | 4538.3 | 2012.4 | 495.7  | 403.3  | 476.1  | 586.2  | 596.1  | 507.5  | 436.7  | 415.1  | 415.1  |
| 56°   | 4569.8 | 1921.9 | 446.6  | 377.7  | 450.5  | 576.4  | 578.4  | 491.8  | 417.0  | 393.4  | 393.4  |
| 57.5° | 4333.7 | 1735.1 | 391.5  | 346.2  | 419.0  | 558.7  | 560.6  | 478.0  | 401.3  | 367.9  | 363.9  |
| 60°   | 3334.4 | 1174.4 | 326.6  | 308.8  | 379.7  | 503.6  | 513.4  | 434.7  | 352.1  | 326.6  | 324.6  |
| 62.5° | 1882.6 | 651.1  | 287.2  | 279.3  | 326.6  | 428.8  | 458.4  | 379.7  | 299.0  | 285.2  | 289.2  |
| 65°   | 859.7  | 358.0  | 242.0  | 226.2  | 263.6  | 330.5  | 369.8  | 312.8  | 245.9  | 230.2  | 230.2  |
| 67.5° | 314.8  | 243.9  | 206.6  | 179.0  | 184.9  | 214.4  | 240.0  | 202.6  | 163.3  | 139.7  | 145.6  |
| 70°   | 224.3  | 204.6  | 181.0  | 155.4  | 143.6  | 139.7  | 137.7  | 114.1  | 80.7   | 63.0   | 66.9   |
| 72.5° | 181.0  | 169.2  | 151.5  | 131.8  | 112.1  | 94.4   | 80.7   | 59.0   | 37.4   | 25.6   | 23.6   |
| 75°   | 129.8  | 123.9  | 110.2  | 94.4   | 78.7   | 66.9   | 55.1   | 37.4   | 19.7   | 9.8    | 9.8    |
| 77.5° | 66.9   | 66.9   | 64.9   | 59.0   | 49.2   | 39.3   | 31.5   | 21.6   | 11.8   | 3.9    | 3.9    |
| 80°   | 51.1   | 55.1   | 57.0   | 51.1   | 45.2   | 35.4   | 25.6   | 15.7   | 7.9    | 2.0    | 2.0    |
| 82.5° | 49.2   | 57.0   | 61.0   | 53.1   | 45.2   | 33.4   | 25.6   | 15.7   | 7.9    | 2.0    | 2.0    |
| 85°   | 11.8   | 11.8   | 17.7   | 19.7   | 25.6   | 27.5   | 21.6   | 13.8   | 5.9    | 2.0    | 2.0    |
| 87.5° | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 2.0    | 2.0    | 2.0    | 2.0    | 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)