

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: P451934

Luminaire Tested: **GALN-SA2D-760-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451934  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2D-760-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15709 lumens  
Efficiency: N/A  
Efficacy: 125.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

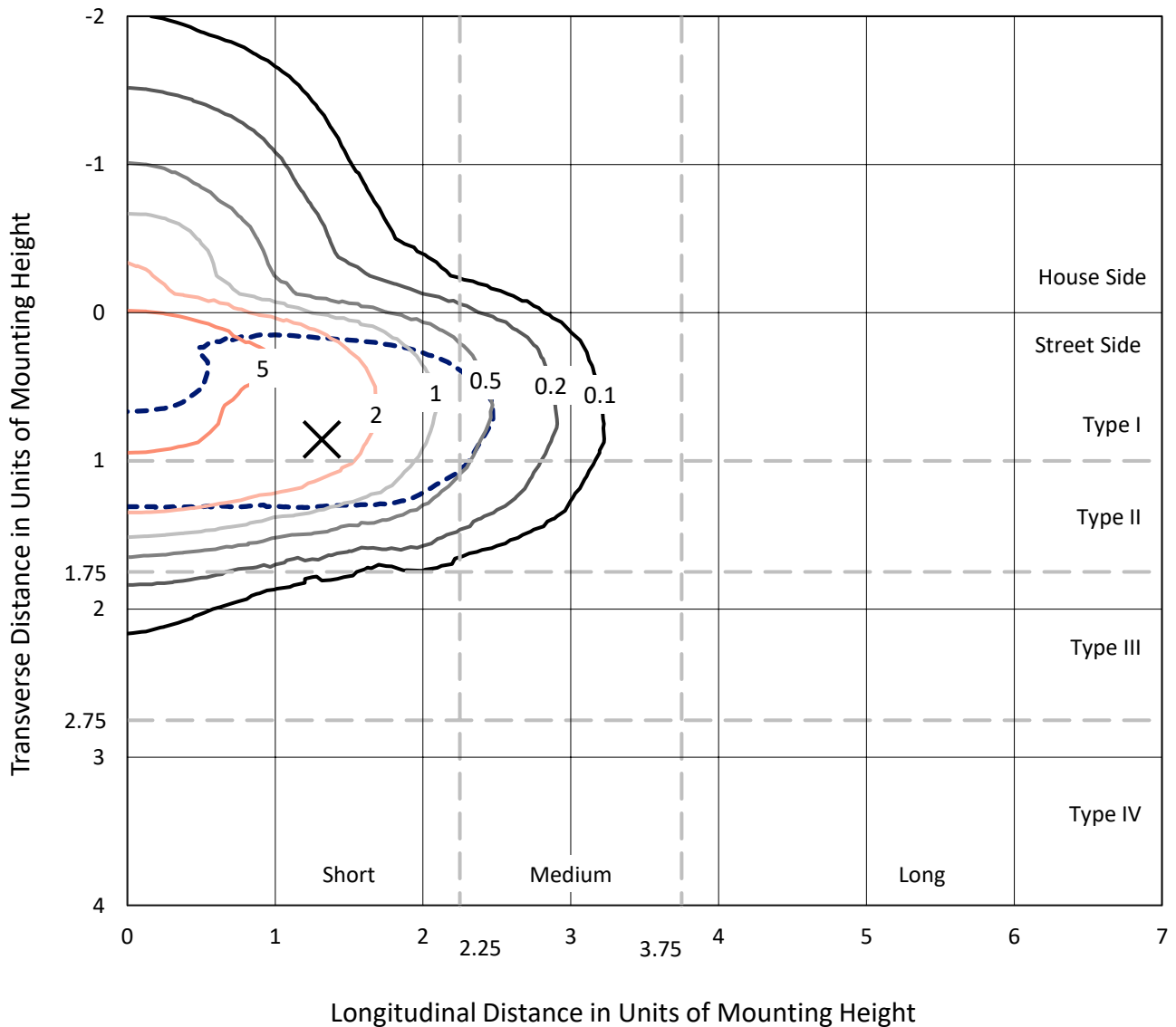
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

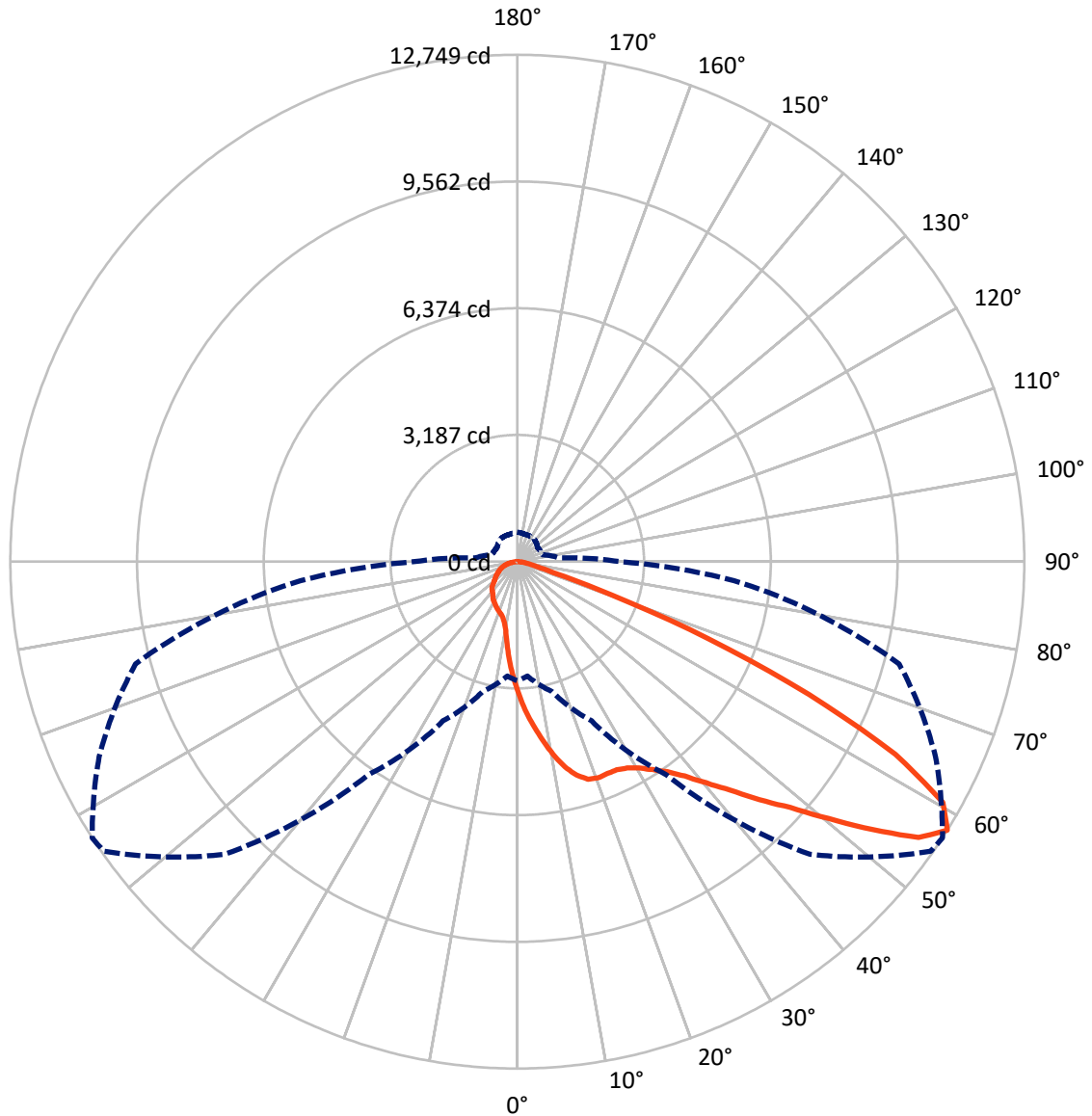
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2388.9   | 0.0    | 2388.9  |
|                    | % Fixture | 15.2     | 0.0    | 15.2    |
| <b>Street Side</b> | Lumens    | 13320.1  | 0.0    | 13320.1 |
|                    | % Fixture | 84.8     | 0.0    | 84.8    |
| <b>Total</b>       | Lumens    | 15709.0  | 0.0    | 15709.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 317.2   | 2.0       |
| 10°-20°   | 934.8   | 6.0       |
| 20°-30°   | 1552.2  | 9.9       |
| 30°-40°   | 2338.1  | 14.9      |
| 40°-50°   | 3510.4  | 22.3      |
| 50°-60°   | 3934.7  | 25.0      |
| 60°-70°   | 2302.8  | 14.7      |
| 70°-80°   | 681.2   | 4.3       |
| 80°-90°   | 137.7   | 0.9       |
| 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°    | 15709.0 | 100.0     |
| 0°-180°   | 15709.0 | 100.0     |

**Coefficient of Utilization**



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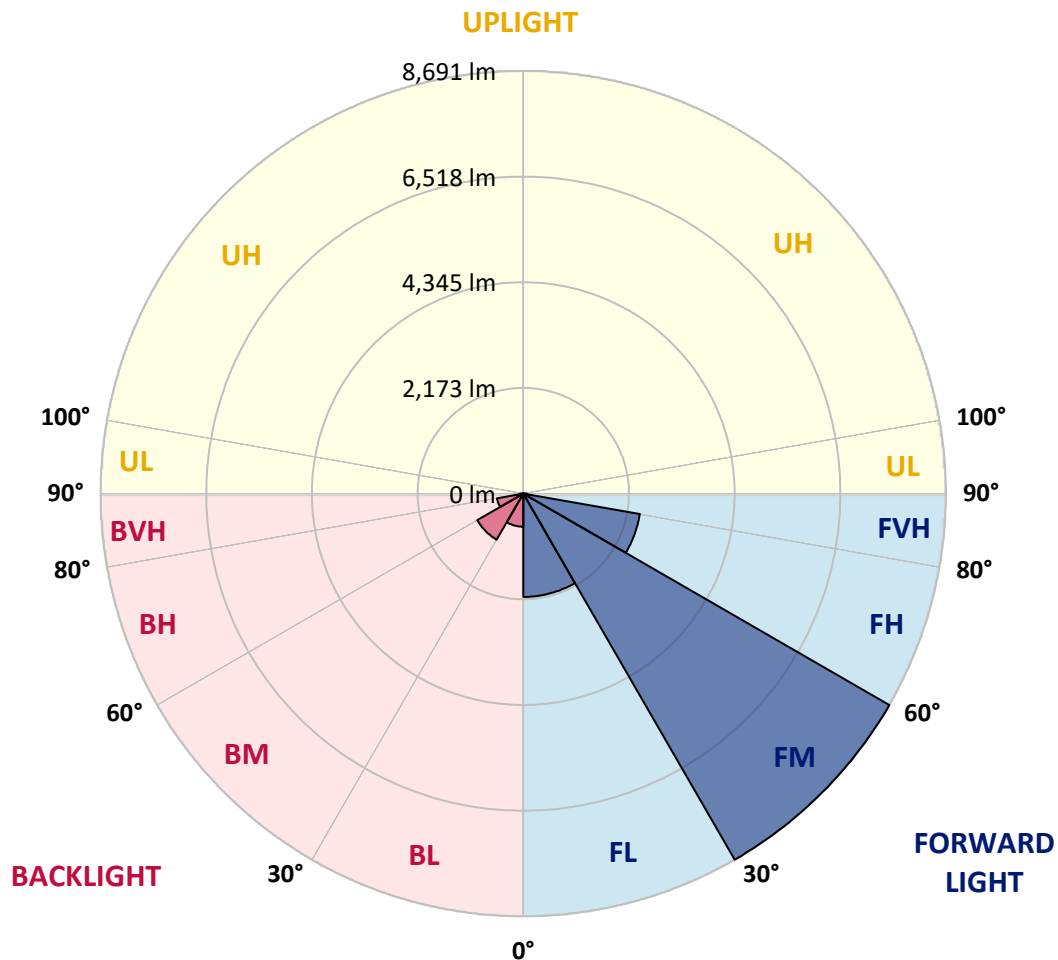
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2123.5 | 13.5      |                         |      |         |
| FM   | (30°-60°)   | 8690.9 | 55.3      |                         |      |         |
| FH   | (60°-80°)   | 2434.3 | 15.5      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 71.4   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 680.7  | 4.3       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1092.3 | 7.0       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 549.7  | 3.5       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 66.2   | 0.4       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 45°     | 55°     | 57°     | 65°     | 75°    | 85°    |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|--------|--------|
| 0°    | 3300.3 | 3300.3 | 3300.3 | 3300.3 | 3300.3  | 3300.3  | 3300.3  | 3300.3  | 3300.3  | 3300.3 | 3300.3 |
| 2.5°  | 4100.8 | 4056.1 | 4020.9 | 3989.9 | 3949.5  | 3840.3  | 3731.1  | 3729.4  | 3642.5  | 3508.4 | 3370.8 |
| 5°    | 4769.0 | 4708.8 | 4716.5 | 4620.2 | 4523.9  | 4365.7  | 4134.4  | 4122.3  | 3937.5  | 3686.4 | 3431.0 |
| 7.5°  | 5204.1 | 5205.0 | 5180.9 | 5125.8 | 5021.8  | 4842.1  | 4579.8  | 4520.5  | 4263.4  | 3882.4 | 3499.8 |
| 10°   | 5181.7 | 5205.0 | 5245.4 | 5292.7 | 5324.5  | 5235.9  | 4996.9  | 4924.6  | 4590.1  | 4119.8 | 3576.3 |
| 12.5° | 4884.2 | 4920.3 | 4977.9 | 5096.6 | 5288.4  | 5434.5  | 5352.9  | 5294.4  | 4968.5  | 4356.2 | 3660.6 |
| 15°   | 4698.5 | 4720.0 | 4751.8 | 4831.8 | 5038.1  | 5388.1  | 5599.6  | 5568.7  | 5325.3  | 4623.7 | 3755.2 |
| 17.5° | 4641.7 | 4663.2 | 4673.5 | 4722.5 | 4869.6  | 5228.2  | 5696.8  | 5751.8  | 5641.8  | 4869.6 | 3850.6 |
| 20°   | 4698.5 | 4708.8 | 4708.8 | 4738.0 | 4853.3  | 5134.4  | 5692.5  | 5803.4  | 5901.5  | 5164.5 | 3940.0 |
| 22.5° | 4847.2 | 4851.5 | 4845.5 | 4855.8 | 4941.8  | 5160.2  | 5652.1  | 5789.7  | 6111.3  | 5414.8 | 4009.7 |
| 25°   | 5088.9 | 5095.7 | 5056.2 | 5032.1 | 5094.9  | 5273.7  | 5674.5  | 5800.9  | 6275.5  | 5653.8 | 4056.1 |
| 27.5° | 5363.2 | 5371.8 | 5323.6 | 5267.7 | 5297.0  | 5413.9  | 5762.2  | 5875.7  | 6398.5  | 5889.4 | 4085.4 |
| 30°   | 5699.4 | 5702.8 | 5622.0 | 5554.9 | 5536.0  | 5622.9  | 5911.8  | 6017.6  | 6551.5  | 6167.2 | 4129.2 |
| 32.5° | 6043.3 | 6069.1 | 5965.1 | 5870.5 | 5838.7  | 5865.4  | 6132.8  | 6235.1  | 6733.8  | 6465.6 | 4199.7 |
| 35°   | 6511.1 | 6515.4 | 6390.7 | 6275.5 | 6170.6  | 6205.0  | 6415.7  | 6489.6  | 6985.8  | 6810.4 | 4299.5 |
| 37.5° | 7095.0 | 7134.6 | 6962.6 | 6747.6 | 6618.6  | 6568.7  | 6757.9  | 6838.8  | 7339.2  | 7233.4 | 4450.0 |
| 40°   | 7743.4 | 7758.0 | 7610.9 | 7476.8 | 7241.2  | 7096.7  | 7227.4  | 7315.1  | 7775.2  | 7738.2 | 4624.5 |
| 42.5° | 8151.0 | 8182.8 | 8193.9 | 8180.2 | 8003.1  | 7760.6  | 7810.4  | 7851.7  | 8291.1  | 8212.0 | 4803.4 |
| 45°   | 8288.5 | 8335.8 | 8495.8 | 8834.6 | 8853.5  | 8614.4  | 8498.4  | 8537.9  | 8853.5  | 8690.1 | 4974.5 |
| 47.5° | 8060.7 | 8141.5 | 8436.4 | 9131.2 | 9651.5  | 9669.5  | 9319.6  | 9232.7  | 9366.0  | 9086.5 | 5098.3 |
| 50°   | 7471.6 | 7488.8 | 7940.3 | 8946.4 | 10025.5 | 10678.2 | 10316.2 | 10154.5 | 9852.7  | 9379.7 | 5183.5 |
| 52.5° | 6560.1 | 6579.9 | 6958.3 | 8087.3 | 9795.1  | 11383.3 | 11482.2 | 11193.3 | 10347.1 | 9607.6 | 5239.3 |
| 55°   | 4869.6 | 4984.0 | 5400.1 | 6491.4 | 8703.0  | 11317.1 | 12409.2 | 12244.9 | 10944.8 | 9788.2 | 5327.1 |
| 57.5° | 2994.2 | 2889.3 | 3382.8 | 4416.4 | 6545.5  | 10407.3 | 12695.5 | 12748.8 | 11602.6 | 9939.5 | 5474.1 |
| 60°   | 1377.6 | 1398.2 | 1602.0 | 2277.9 | 3989.9  | 8141.5  | 11957.7 | 12294.8 | 11966.3 | 9934.4 | 5511.1 |
| 62.5° | 949.3  | 930.4  | 878.8  | 1000.1 | 1819.5  | 5149.1  | 10100.3 | 10671.3 | 11237.1 | 9625.7 | 5364.0 |
| 65°   | 848.7  | 829.8  | 730.1  | 696.5  | 835.8   | 2244.3  | 7342.7  | 8063.2  | 9461.4  | 8846.6 | 4997.7 |
| 67.5° | 792.8  | 767.0  | 663.8  | 598.5  | 596.8   | 893.4   | 4329.6  | 5197.2  | 7017.6  | 7479.4 | 4330.4 |
| 70°   | 734.4  | 713.7  | 611.4  | 539.2  | 508.2   | 561.5   | 1902.9  | 2491.1  | 4556.6  | 5389.8 | 3373.4 |
| 72.5° | 675.9  | 651.8  | 559.8  | 482.4  | 442.0   | 420.5   | 729.2   | 948.5   | 2574.5  | 3231.5 | 2068.1 |
| 75°   | 590.7  | 578.7  | 500.5  | 436.8  | 393.0   | 339.7   | 462.6   | 528.0   | 1231.4  | 1484.2 | 1037.9 |
| 77.5° | 516.8  | 503.9  | 444.6  | 381.8  | 350.0   | 276.0   | 328.5   | 358.6   | 519.4   | 601.9  | 468.6  |
| 80°   | 378.4  | 391.3  | 374.9  | 337.1  | 312.1   | 216.7   | 221.0   | 245.9   | 308.7   | 341.4  | 286.3  |
| 82.5° | 239.9  | 264.0  | 288.9  | 259.7  | 236.5   | 171.1   | 153.1   | 162.5   | 210.7   | 223.6  | 127.3  |
| 85°   | 100.6  | 102.3  | 167.7  | 158.2  | 135.0   | 101.5   | 92.0    | 97.2    | 112.6   | 117.8  | 59.3   |
| 87.5° | 38.7   | 37.8   | 59.3   | 55.0   | 42.1    | 29.2    | 29.2    | 32.7    | 44.7    | 41.3   | 18.9   |
| 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°    | 3300.3 | 3300.3 | 3300.3 | 3300.3 | 3300.3 | 3300.3 | 3300.3 | 3300.3 | 3300.3 | 3300.3 | 3300.3 |
| 2.5°  | 3311.5 | 3250.4 | 3129.2 | 2978.7 | 2868.6 | 2744.8 | 2635.6 | 2557.3 | 2528.1 | 2514.3 | 2488.5 |
| 5°    | 3308.9 | 3188.5 | 2937.4 | 2674.3 | 2462.7 | 2246.0 | 2062.9 | 1944.2 | 1933.9 | 1854.8 | 1847.1 |
| 7.5°  | 3309.7 | 3125.7 | 2725.9 | 2338.9 | 2016.5 | 1794.6 | 1643.3 | 1603.7 | 1556.4 | 1544.4 | 1550.4 |
| 10°   | 3312.3 | 3045.8 | 2498.9 | 2007.0 | 1694.9 | 1549.5 | 1492.8 | 1477.3 | 1479.0 | 1484.2 | 1485.0 |
| 12.5° | 3315.8 | 2968.4 | 2263.2 | 1755.0 | 1514.3 | 1454.1 | 1448.1 | 1461.8 | 1476.4 | 1487.6 | 1490.2 |
| 15°   | 3320.1 | 2879.8 | 2033.7 | 1552.1 | 1424.0 | 1418.8 | 1438.6 | 1461.8 | 1482.5 | 1498.8 | 1501.4 |
| 17.5° | 3314.9 | 2776.6 | 1841.0 | 1427.4 | 1374.1 | 1399.1 | 1431.7 | 1461.0 | 1479.9 | 1495.4 | 1497.1 |
| 20°   | 3302.9 | 2661.4 | 1655.3 | 1339.7 | 1343.2 | 1383.6 | 1418.8 | 1446.3 | 1467.0 | 1474.7 | 1480.7 |
| 22.5° | 3256.4 | 2523.8 | 1493.6 | 1271.8 | 1306.2 | 1362.1 | 1404.2 | 1420.5 | 1397.3 | 1381.0 | 1385.3 |
| 25°   | 3177.3 | 2344.9 | 1343.2 | 1216.8 | 1272.6 | 1332.0 | 1375.0 | 1335.4 | 1316.5 | 1309.6 | 1313.1 |
| 27.5° | 3078.4 | 2148.9 | 1229.7 | 1159.1 | 1229.7 | 1298.4 | 1286.4 | 1279.5 | 1270.9 | 1259.7 | 1262.3 |
| 30°   | 2971.8 | 1957.1 | 1133.3 | 1114.4 | 1183.2 | 1222.8 | 1227.9 | 1239.1 | 1229.7 | 1212.5 | 1219.3 |
| 32.5° | 2872.9 | 1776.5 | 1060.3 | 1076.6 | 1150.5 | 1144.5 | 1183.2 | 1196.1 | 1152.3 | 1094.6 | 1097.2 |
| 35°   | 2788.6 | 1608.9 | 1005.2 | 1039.6 | 1094.6 | 1097.2 | 1135.9 | 1091.2 | 1043.9 | 1016.4 | 1018.1 |
| 37.5° | 2725.0 | 1478.2 | 969.1  | 1007.8 | 1023.3 | 1056.0 | 1035.3 | 1012.1 | 1006.1 | 987.2  | 988.0  |
| 40°   | 2687.2 | 1363.8 | 945.9  | 982.9  | 980.3  | 1002.6 | 936.4  | 959.6  | 968.2  | 962.2  | 963.1  |
| 42.5° | 2649.3 | 1283.0 | 921.8  | 948.5  | 947.6  | 903.8  | 889.1  | 908.9  | 931.3  | 933.8  | 932.1  |
| 45°   | 2619.2 | 1220.2 | 896.9  | 896.0  | 913.2  | 844.4  | 840.1  | 852.2  | 884.0  | 899.5  | 898.6  |
| 47.5° | 2585.7 | 1167.7 | 859.0  | 835.0  | 840.1  | 807.4  | 800.6  | 805.7  | 844.4  | 869.4  | 876.2  |
| 50°   | 2543.6 | 1115.3 | 811.7  | 779.1  | 757.6  | 773.0  | 774.8  | 775.6  | 814.3  | 842.7  | 848.7  |
| 52.5° | 2510.0 | 1075.7 | 757.6  | 733.5  | 707.7  | 742.1  | 755.0  | 756.7  | 779.9  | 803.1  | 807.4  |
| 55°   | 2529.8 | 1053.4 | 704.3  | 687.1  | 663.8  | 710.3  | 735.2  | 738.7  | 743.8  | 761.0  | 763.6  |
| 57.5° | 2589.1 | 1058.5 | 661.3  | 638.9  | 621.7  | 672.4  | 714.6  | 717.2  | 713.7  | 734.4  | 737.8  |
| 60°   | 2607.2 | 1056.0 | 629.4  | 585.6  | 575.3  | 632.0  | 684.5  | 689.6  | 688.8  | 718.9  | 724.9  |
| 62.5° | 2531.5 | 1023.3 | 597.6  | 540.9  | 534.0  | 590.7  | 642.3  | 663.0  | 667.3  | 710.3  | 718.0  |
| 65°   | 2353.5 | 956.2  | 555.5  | 493.6  | 493.6  | 546.9  | 601.9  | 630.3  | 642.3  | 700.0  | 708.6  |
| 67.5° | 2118.8 | 877.1  | 512.5  | 453.2  | 451.4  | 504.8  | 558.9  | 588.2  | 607.1  | 685.3  | 690.5  |
| 70°   | 1758.5 | 770.5  | 459.2  | 409.3  | 409.3  | 457.5  | 506.5  | 541.7  | 569.3  | 657.8  | 657.8  |
| 72.5° | 1204.7 | 640.6  | 394.7  | 359.4  | 360.3  | 405.0  | 454.9  | 494.4  | 527.1  | 602.8  | 604.5  |
| 75°   | 761.9  | 500.5  | 324.2  | 306.1  | 309.6  | 351.7  | 403.3  | 444.6  | 509.9  | 595.9  | 598.5  |
| 77.5° | 405.0  | 351.7  | 258.0  | 253.7  | 258.0  | 296.7  | 354.3  | 411.0  | 511.6  | 516.8  | 508.2  |
| 80°   | 262.3  | 249.4  | 203.8  | 195.2  | 196.9  | 239.1  | 315.6  | 390.4  | 411.0  | 416.2  | 397.3  |
| 82.5° | 142.7  | 158.2  | 144.5  | 135.9  | 135.9  | 186.6  | 269.1  | 310.4  | 294.9  | 245.1  | 233.9  |
| 85°   | 61.1   | 74.0   | 74.8   | 65.4   | 62.8   | 115.2  | 180.6  | 169.4  | 157.4  | 150.5  | 148.8  |
| 87.5° | 17.2   | 24.1   | 24.1   | 18.1   | 13.8   | 31.8   | 36.1   | 10.3   | 0.0    | 0.9    | 1.7    |
| 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)