

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: P530541

Luminaire Tested: **GALN-SA5D-735-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530541  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5D-735-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26921 lumens  
Efficiency: N/A  
Efficacy: 87.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

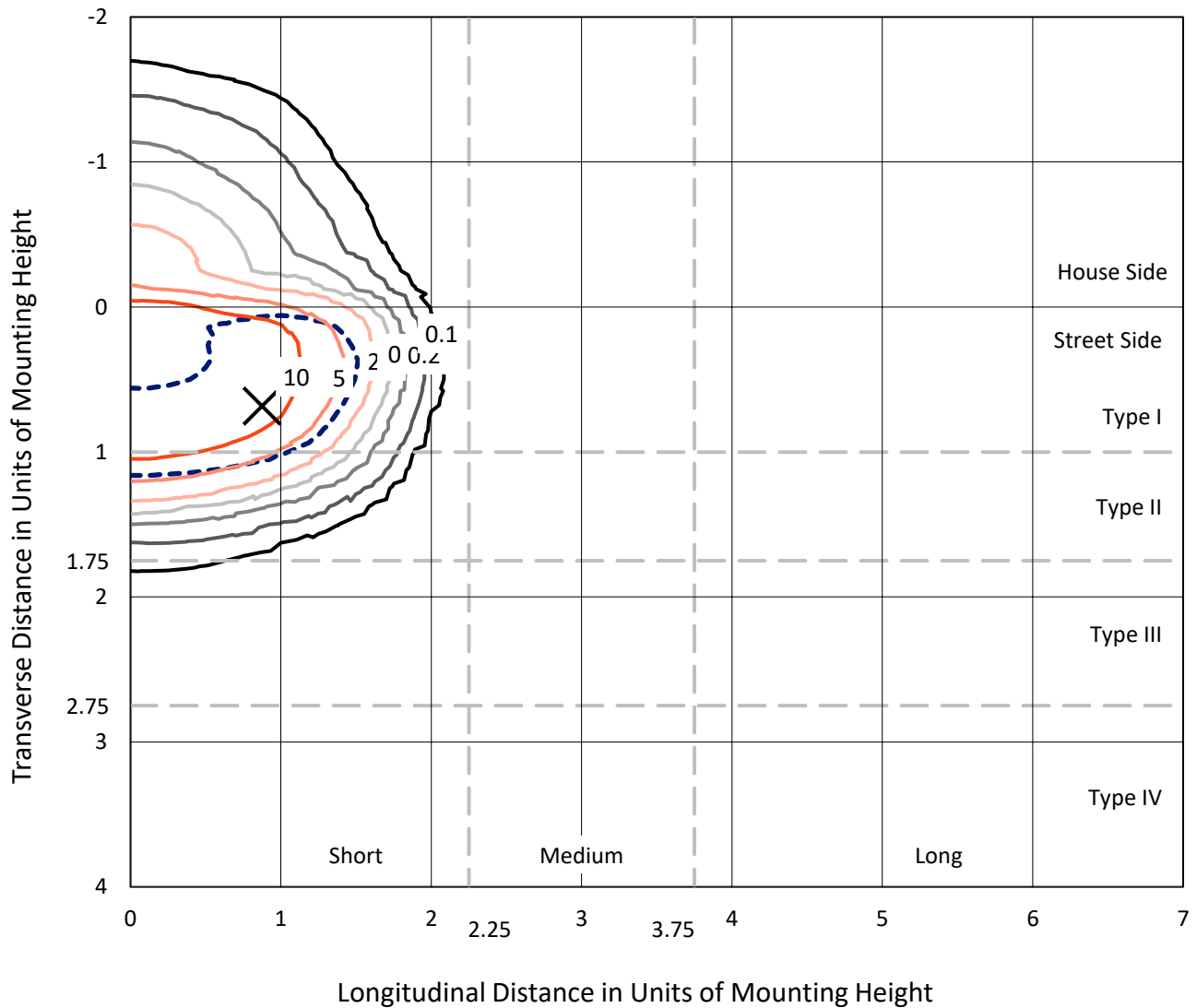
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

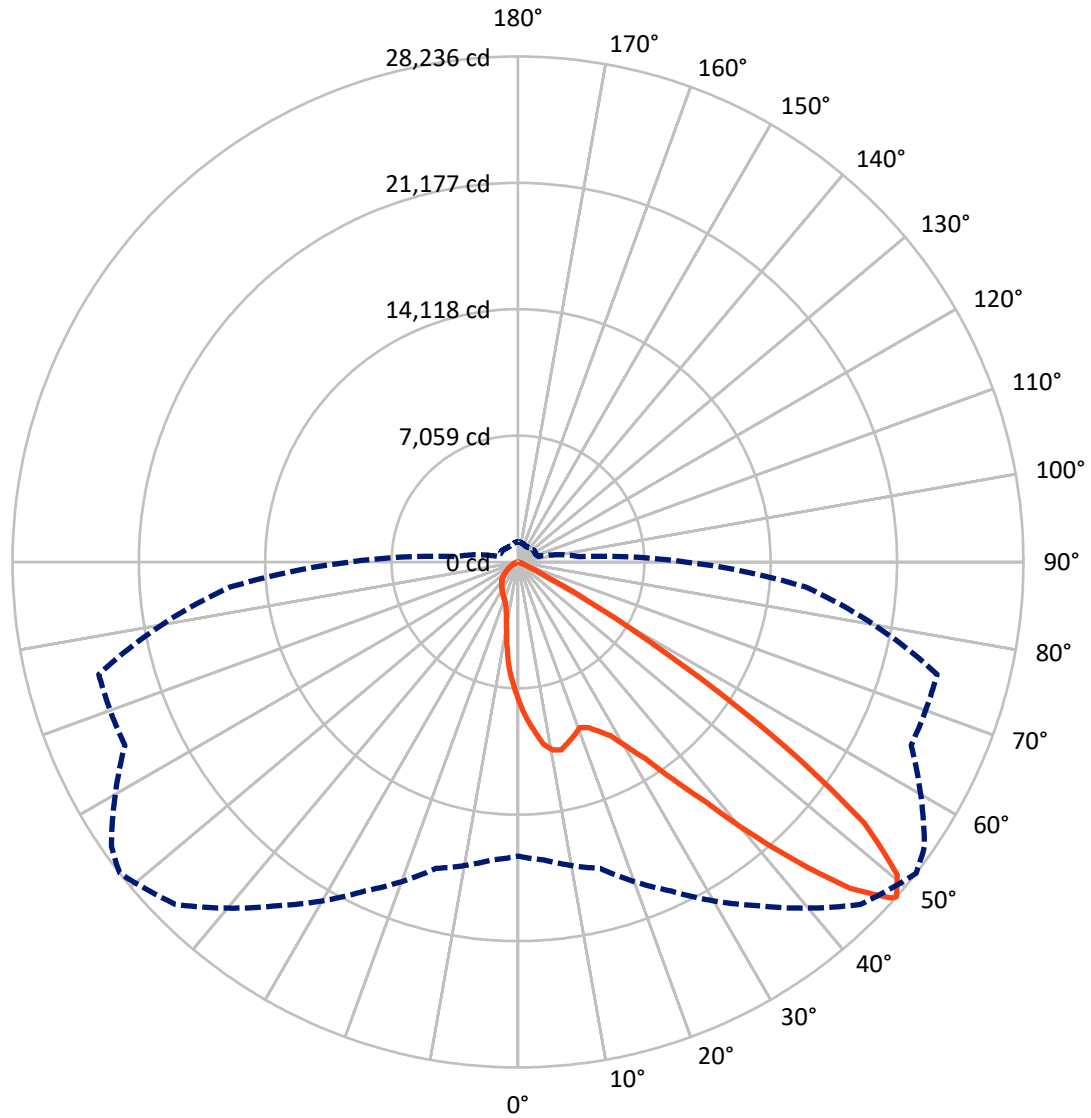
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral    - - - Horizontal Cone Through 48-Deg Vertical

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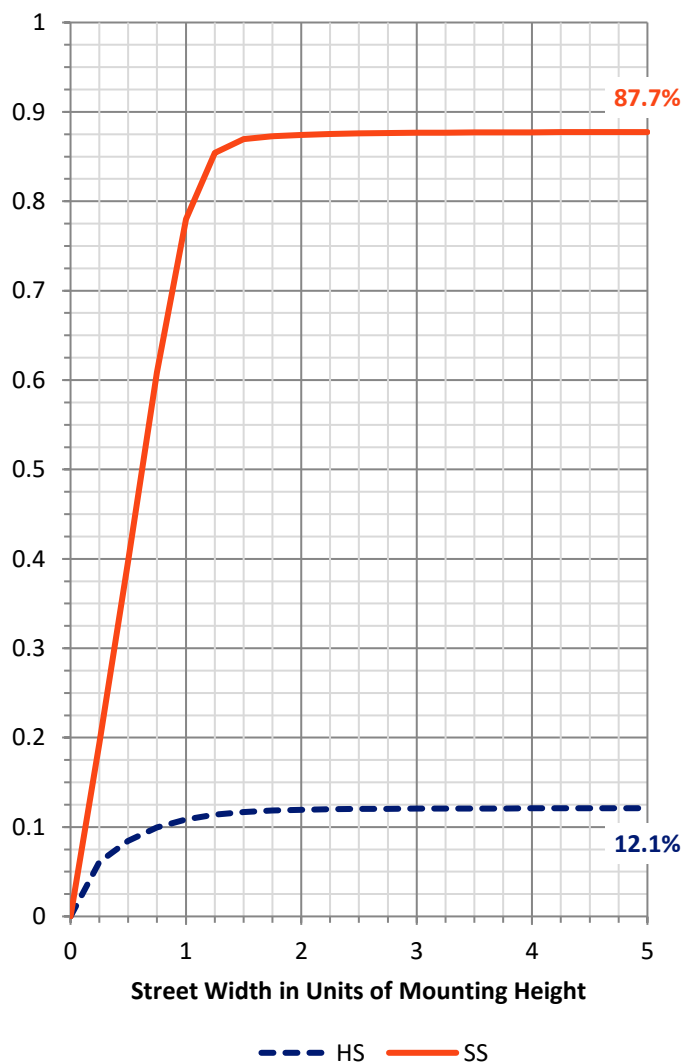
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3277.8   | 0.0    | 3277.8  |
|                    | % Fixture | 12.2     | 0.0    | 12.2    |
| <b>Street Side</b> | Lumens    | 23643.1  | 0.0    | 23643.1 |
|                    | % Fixture | 87.8     | 0.0    | 87.8    |
| <b>Total</b>       | Lumens    | 26921.0  | 0.0    | 26921.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 711.6   | 2.6       |
| 10°-20°   | 1859.6  | 6.9       |
| 20°-30°   | 3175.1  | 11.8      |
| 30°-40°   | 5846.9  | 21.7      |
| 40°-50°   | 9080.3  | 33.7      |
| 50°-60°   | 5464.8  | 20.3      |
| 60°-70°   | 632.1   | 2.3       |
| 70°-80°   | 122.3   | 0.5       |
| 80°-90°   | 28.3    | 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°    | 26921.0 | 100.0     |
| 0°-180°   | 26921.0 | 100.0     |

**Coefficient of Utilization**



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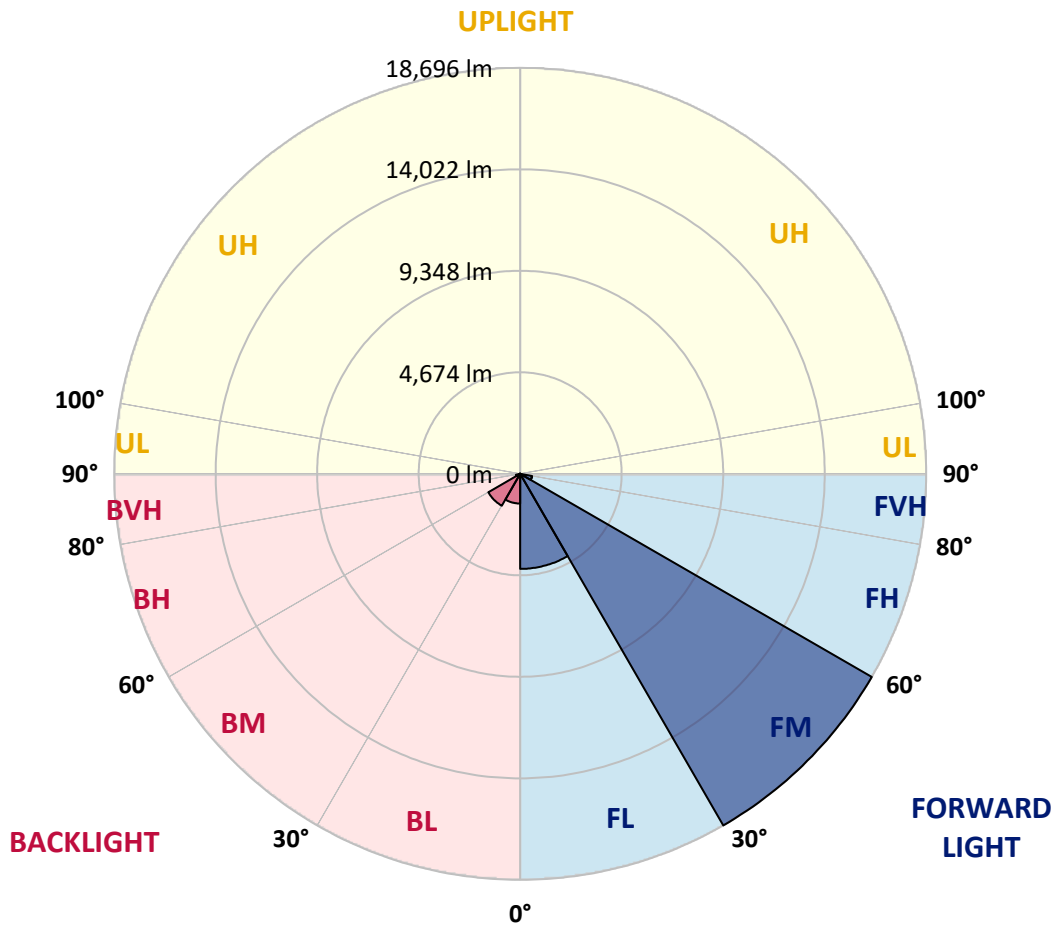
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|---------|-----------|-------------------------|------|--------|
|                |         |           | B                       | U    | G      |
| FL (0°-30°)    | 4377.0  | 16.3      |                         |      |        |
| FM (30°-60°)   | 18696.1 | 69.4      |                         |      |        |
| FH (60°-80°)   | 556.6   | 2.1       |                         |      | G0/660 |
| FVH (80°-90°)  | 13.5    | 0.0       |                         |      | G1/100 |
| BL (0°-30°)    | 1369.3  | 5.1       | B3/2500                 |      |        |
| BM (30°-60°)   | 1695.9  | 6.3       | B2/2500                 |      |        |
| BH (60°-80°)   | 197.8   | 0.7       | B1/500                  |      | G1/500 |
| BVH (80°-90°)  | 14.8    | 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°     | 52°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7774.3  | 7774.3  | 7774.3  | 7774.3  | 7774.3  | 7774.3  | 7774.3  | 7774.3  | 7774.3  | 7774.3  | 7774.3  |
| 2.5°  | 9422.6  | 9206.8  | 9226.4  | 9085.1  | 9002.7  | 8869.3  | 8688.7  | 8653.4  | 8457.2  | 8190.3  | 7919.5  |
| 5°    | 10270.3 | 10219.3 | 10286.0 | 10081.9 | 10089.8 | 9870.0  | 9446.2  | 9454.0  | 9002.7  | 8567.1  | 8147.2  |
| 7.5°  | 10325.2 | 10207.5 | 10274.2 | 10454.7 | 10560.7 | 10521.5 | 10282.1 | 10074.1 | 9646.3  | 9006.6  | 8394.4  |
| 10°   | 9246.0  | 9469.7  | 9540.3  | 9838.6  | 10262.4 | 10709.8 | 10682.4 | 10694.1 | 10337.0 | 9501.1  | 8606.3  |
| 12.5° | 8598.5  | 8449.3  | 8688.7  | 8869.3  | 9508.9  | 10376.2 | 10772.6 | 10859.0 | 10886.4 | 9979.9  | 8818.2  |
| 15°   | 8304.1  | 8304.1  | 8343.4  | 8394.4  | 8857.5  | 9658.1  | 10466.5 | 10717.7 | 11310.3 | 10607.8 | 9151.8  |
| 17.5° | 8488.6  | 8480.7  | 8535.7  | 8429.7  | 8602.4  | 9218.5  | 10184.0 | 10470.4 | 11785.1 | 11223.9 | 9414.8  |
| 20°   | 9049.8  | 9077.3  | 9041.9  | 8735.8  | 8747.6  | 9210.7  | 9870.0  | 10321.3 | 12106.9 | 11757.7 | 9764.0  |
| 22.5° | 9830.8  | 9846.4  | 9646.3  | 9312.7  | 9214.6  | 9442.2  | 10050.5 | 10395.9 | 12365.9 | 12397.3 | 9870.0  |
| 25°   | 10733.4 | 10670.6 | 10631.3 | 10160.4 | 9862.1  | 10058.4 | 10458.7 | 10658.8 | 12526.8 | 12946.8 | 10172.2 |
| 27.5° | 11985.3 | 11859.7 | 11620.3 | 11200.4 | 10980.6 | 10702.0 | 10988.5 | 11318.1 | 12986.0 | 13716.0 | 10501.8 |
| 30°   | 13833.7 | 13723.8 | 13256.8 | 12715.2 | 12138.3 | 11863.6 | 11953.9 | 12134.4 | 13814.1 | 14606.8 | 10937.4 |
| 32.5° | 16616.1 | 16384.6 | 15709.6 | 14677.4 | 13892.6 | 13135.1 | 13111.6 | 13303.9 | 14555.8 | 15839.1 | 11455.5 |
| 35°   | 19681.1 | 19610.5 | 18617.6 | 17554.1 | 16035.3 | 14865.8 | 14885.4 | 14987.5 | 15976.4 | 17456.0 | 12134.4 |
| 37.5° | 21717.9 | 22106.4 | 21474.6 | 20332.6 | 19057.1 | 17385.3 | 16961.5 | 16996.8 | 17926.9 | 19371.1 | 13358.8 |
| 40°   | 23291.6 | 22962.0 | 23036.5 | 22769.7 | 21898.4 | 20760.3 | 19822.4 | 19638.0 | 20183.5 | 21490.3 | 14575.4 |
| 42.5° | 22604.8 | 22620.5 | 23079.7 | 23711.5 | 23927.4 | 23845.0 | 22887.4 | 22538.1 | 22114.3 | 23224.9 | 15733.1 |
| 45°   | 20666.2 | 21070.4 | 21666.9 | 23338.7 | 24806.5 | 26183.9 | 25995.6 | 25414.7 | 23448.6 | 24598.5 | 16400.3 |
| 47.5° | 17573.7 | 17558.0 | 18535.2 | 20709.3 | 23970.5 | 27196.4 | 28052.0 | 27643.8 | 24394.4 | 24445.4 | 16262.9 |
| 48°   | 16431.7 | 16714.2 | 17722.8 | 20281.6 | 23440.7 | 27047.3 | 28236.4 | 27722.3 | 24233.5 | 24241.3 | 16145.2 |
| 50°   | 12146.2 | 12095.2 | 13351.0 | 16490.5 | 20936.9 | 25414.7 | 27459.4 | 27859.7 | 24229.6 | 23209.2 | 15321.1 |
| 52.5° | 6416.5  | 6636.2  | 7550.6  | 10368.4 | 14803.0 | 20799.6 | 24221.7 | 24845.7 | 23374.0 | 21521.7 | 14135.9 |
| 55°   | 2727.5  | 2464.6  | 3167.0  | 4681.9  | 8327.7  | 13896.5 | 17769.9 | 19159.2 | 19763.5 | 19045.4 | 12365.9 |
| 57.5° | 973.3   | 1063.5  | 1224.4  | 1762.1  | 3500.6  | 7605.6  | 10596.0 | 11675.2 | 13692.4 | 13975.0 | 8425.8  |
| 60°   | 624.0   | 635.8   | 686.8   | 808.4   | 1314.7  | 2931.6  | 5027.2  | 5886.7  | 6801.1  | 7020.8  | 3932.3  |
| 62.5° | 482.7   | 486.6   | 510.2   | 529.8   | 624.0   | 1138.1  | 1887.7  | 2236.9  | 2323.3  | 1997.5  | 1032.1  |
| 65°   | 404.2   | 408.1   | 416.0   | 416.0   | 443.5   | 533.7   | 659.3   | 726.0   | 706.4   | 698.6   | 584.7   |
| 67.5° | 310.0   | 317.9   | 333.6   | 333.6   | 349.3   | 325.7   | 365.0   | 388.5   | 439.5   | 533.7   | 498.4   |
| 70°   | 243.3   | 247.2   | 259.0   | 266.9   | 266.9   | 235.5   | 262.9   | 286.5   | 321.8   | 396.4   | 392.4   |
| 72.5° | 188.4   | 196.2   | 204.1   | 204.1   | 192.3   | 160.9   | 188.4   | 208.0   | 231.5   | 274.7   | 266.9   |
| 75°   | 145.2   | 145.2   | 149.1   | 121.7   | 94.2    | 82.4    | 113.8   | 137.4   | 172.7   | 180.5   | 149.1   |
| 77.5° | 39.2    | 43.2    | 39.2    | 35.3    | 39.2    | 58.9    | 74.6    | 86.3    | 109.9   | 109.9   | 98.1    |
| 80°   | 0.0     | 3.9     | 11.8    | 23.5    | 39.2    | 54.9    | 66.7    | 74.6    | 86.3    | 94.2    | 90.3    |
| 82.5° | 0.0     | 3.9     | 11.8    | 23.5    | 35.3    | 43.2    | 58.9    | 62.8    | 70.6    | 82.4    | 82.4    |
| 85°   | 0.0     | 3.9     | 7.8     | 15.7    | 23.5    | 27.5    | 27.5    | 23.5    | 23.5    | 19.6    | 15.7    |
| 87.5° | 0.0     | 0.0     | 3.9     | 7.8     | 7.8     | 11.8    | 11.8    | 11.8    | 11.8    | 11.8    | 11.8    |
| 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°    | 7774.3 | 7774.3 | 7774.3 | 7774.3 | 7774.3 | 7774.3 | 7774.3 | 7774.3 | 7774.3 | 7774.3 | 7774.3 |
| 2.5°  | 7813.6 | 7691.9 | 7507.5 | 7217.1 | 6938.4 | 6757.9 | 6585.2 | 6392.9 | 6287.0 | 6279.1 | 6220.3 |
| 5°    | 7907.8 | 7633.1 | 7193.5 | 6695.1 | 6161.4 | 5702.2 | 5239.1 | 4937.0 | 4666.2 | 4517.0 | 4489.6 |
| 7.5°  | 7958.8 | 7601.7 | 6891.3 | 6055.4 | 5145.0 | 4395.4 | 3877.4 | 3496.7 | 3347.6 | 3237.7 | 3233.7 |
| 10°   | 8064.7 | 7546.7 | 6440.0 | 5207.7 | 4081.4 | 3324.0 | 2966.9 | 2794.2 | 2711.8 | 2680.4 | 2633.3 |
| 12.5° | 8143.2 | 7444.7 | 5976.9 | 4336.5 | 3225.9 | 2755.0 | 2598.0 | 2558.7 | 2562.7 | 2578.4 | 2558.7 |
| 15°   | 8253.1 | 7354.4 | 5353.0 | 3559.5 | 2707.9 | 2480.3 | 2480.3 | 2488.1 | 2543.0 | 2550.9 | 2547.0 |
| 17.5° | 8245.3 | 7177.8 | 4709.3 | 2931.6 | 2393.9 | 2362.5 | 2374.3 | 2448.9 | 2484.2 | 2496.0 | 2468.5 |
| 20°   | 8339.5 | 7013.0 | 4046.1 | 2503.8 | 2217.3 | 2264.4 | 2342.9 | 2362.5 | 2405.7 | 2413.5 | 2382.1 |
| 22.5° | 8312.0 | 6600.9 | 3430.0 | 2166.3 | 2083.9 | 2174.1 | 2252.6 | 2276.2 | 2264.4 | 2240.9 | 2236.9 |
| 25°   | 8261.0 | 6247.7 | 2864.8 | 1942.6 | 1985.8 | 2083.9 | 2158.4 | 2115.3 | 2091.7 | 2095.7 | 2099.6 |
| 27.5° | 8170.7 | 5800.3 | 2397.8 | 1785.6 | 1852.3 | 1997.5 | 1993.6 | 1977.9 | 2001.5 | 1981.8 | 2001.5 |
| 30°   | 8155.0 | 5353.0 | 2013.2 | 1644.3 | 1754.2 | 1860.2 | 1868.0 | 1895.5 | 1923.0 | 1887.7 | 1923.0 |
| 32.5° | 8178.6 | 4862.4 | 1738.5 | 1558.0 | 1695.4 | 1699.3 | 1785.6 | 1813.1 | 1793.5 | 1715.0 | 1722.8 |
| 35°   | 8359.1 | 4485.6 | 1538.4 | 1510.9 | 1601.2 | 1605.1 | 1687.5 | 1652.2 | 1565.9 | 1518.8 | 1546.2 |
| 37.5° | 8739.8 | 4171.7 | 1444.2 | 1467.7 | 1475.6 | 1526.6 | 1530.5 | 1459.9 | 1467.7 | 1463.8 | 1479.5 |
| 40°   | 9226.4 | 3932.3 | 1377.5 | 1428.5 | 1420.7 | 1456.0 | 1314.7 | 1353.9 | 1389.3 | 1401.0 | 1408.9 |
| 42.5° | 9560.0 | 3759.6 | 1334.3 | 1365.7 | 1350.0 | 1287.2 | 1208.7 | 1248.0 | 1275.4 | 1318.6 | 1326.5 |
| 45°   | 9709.1 | 3622.3 | 1283.3 | 1255.8 | 1255.8 | 1142.0 | 1110.6 | 1118.5 | 1181.3 | 1228.4 | 1220.5 |
| 47.5° | 9465.8 | 3488.8 | 1193.0 | 1110.6 | 1138.1 | 1043.9 | 1008.6 | 1008.6 | 1075.3 | 1134.2 | 1122.4 |
| 48°   | 9371.6 | 3433.9 | 1197.0 | 1079.2 | 1098.8 | 1028.2 | 992.9  | 985.0  | 1059.6 | 1114.5 | 1114.5 |
| 50°   | 8904.6 | 3229.8 | 1094.9 | 992.9  | 953.6  | 945.8  | 922.2  | 930.1  | 977.2  | 1028.2 | 1028.2 |
| 52.5° | 7994.1 | 2790.3 | 926.2  | 851.6  | 781.0  | 828.1  | 839.8  | 824.1  | 847.7  | 894.8  | 890.9  |
| 55°   | 6671.6 | 2142.8 | 741.7  | 706.4  | 651.5  | 702.5  | 726.0  | 706.4  | 682.9  | 718.2  | 718.2  |
| 57.5° | 4273.7 | 1153.8 | 592.6  | 600.4  | 545.5  | 596.5  | 616.1  | 569.0  | 525.9  | 553.3  | 549.4  |
| 60°   | 1926.9 | 690.7  | 486.6  | 474.9  | 439.5  | 498.4  | 529.8  | 474.9  | 416.0  | 435.6  | 455.2  |
| 62.5° | 722.1  | 490.6  | 368.9  | 361.0  | 353.2  | 408.1  | 423.8  | 380.7  | 321.8  | 333.6  | 337.5  |
| 65°   | 529.8  | 431.7  | 294.3  | 266.9  | 282.6  | 321.8  | 314.0  | 270.8  | 231.5  | 231.5  | 239.4  |
| 67.5° | 451.3  | 376.7  | 239.4  | 208.0  | 208.0  | 211.9  | 196.2  | 172.7  | 160.9  | 168.8  | 176.6  |
| 70°   | 353.2  | 298.3  | 188.4  | 160.9  | 145.2  | 129.5  | 113.8  | 109.9  | 98.1   | 109.9  | 106.0  |
| 72.5° | 227.6  | 200.1  | 145.2  | 121.7  | 109.9  | 90.3   | 74.6   | 70.6   | 58.9   | 54.9   | 54.9   |
| 75°   | 121.7  | 121.7  | 113.8  | 98.1   | 86.3   | 70.6   | 58.9   | 47.1   | 31.4   | 23.5   | 23.5   |
| 77.5° | 86.3   | 94.2   | 102.0  | 94.2   | 78.5   | 58.9   | 47.1   | 31.4   | 15.7   | 7.8    | 7.8    |
| 80°   | 82.4   | 94.2   | 102.0  | 90.3   | 78.5   | 58.9   | 43.2   | 23.5   | 11.8   | 3.9    | 3.9    |
| 82.5° | 74.6   | 86.3   | 94.2   | 82.4   | 70.6   | 51.0   | 39.2   | 23.5   | 11.8   | 3.9    | 3.9    |
| 85°   | 15.7   | 19.6   | 23.5   | 23.5   | 27.5   | 35.3   | 27.5   | 19.6   | 7.8    | 3.9    | 3.9    |
| 87.5° | 11.8   | 11.8   | 11.8   | 11.8   | 11.8   | 11.8   | 7.8    | 7.8    | 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    |

(END OF REPORT)