

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: P527239

Luminaire Tested: **GALN-SA2B-730-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527239  
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-SA2B-730-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 800mA 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: 7774 lumens  
Efficiency: N/A  
Efficacy: 94.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

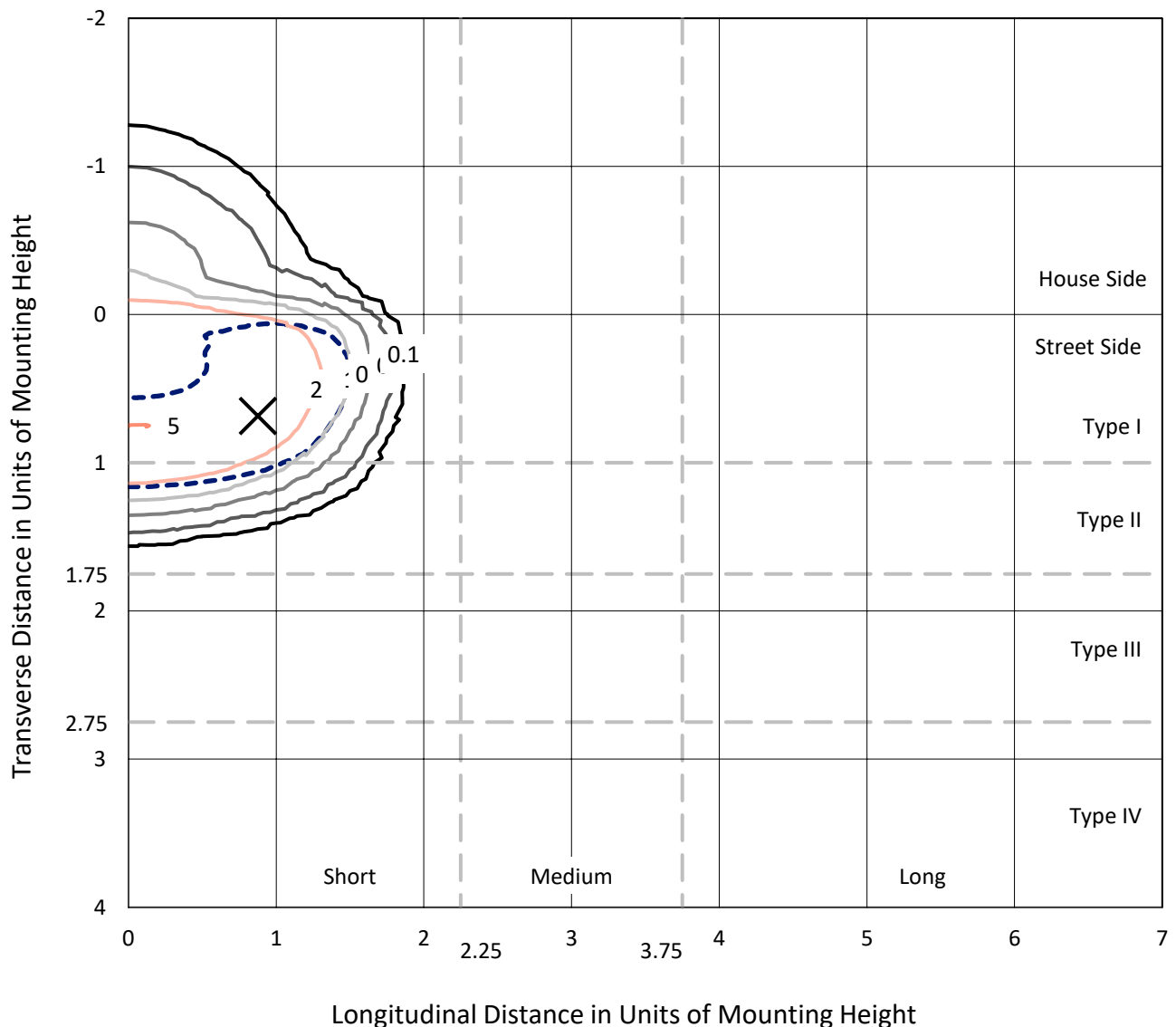
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

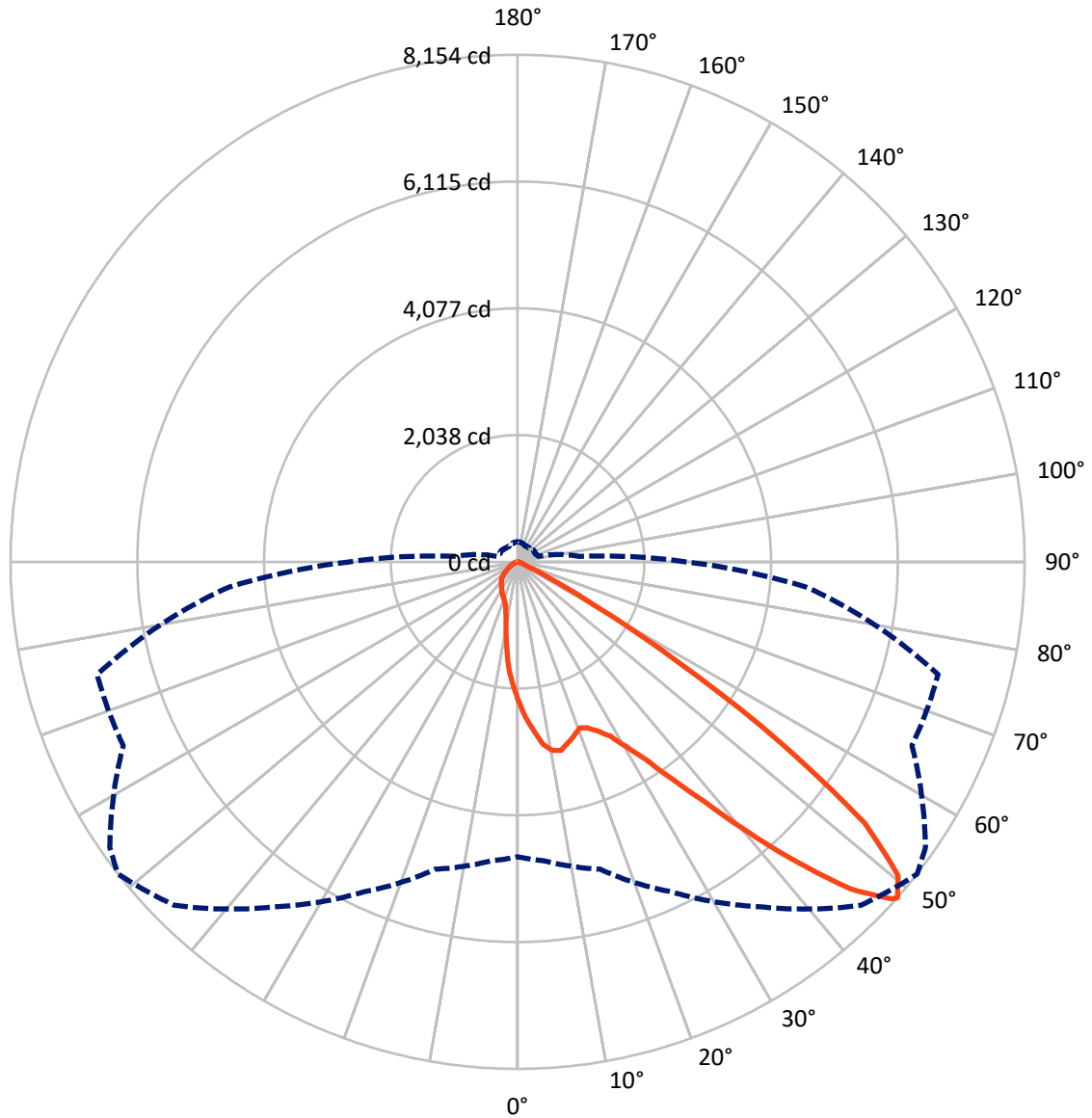
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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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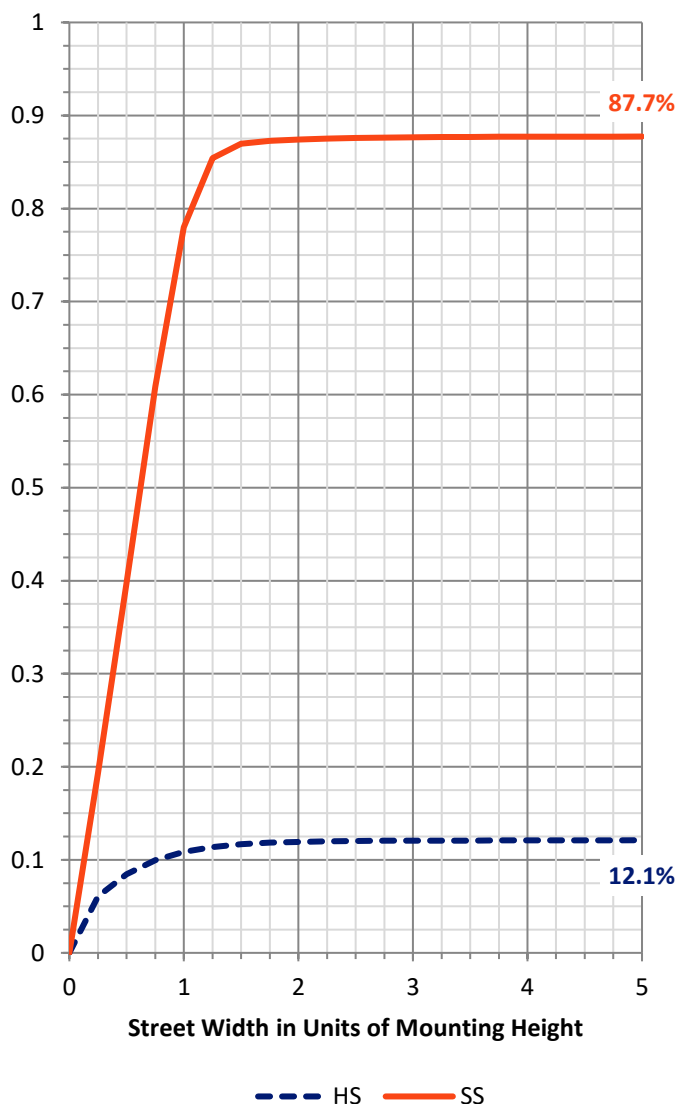
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 946.5    | 0.0    | 946.5  |
|                    | % Fixture | 12.2     | 0.0    | 12.2   |
| <b>Street Side</b> | Lumens    | 6827.5   | 0.0    | 6827.5 |
|                    | % Fixture | 87.8     | 0.0    | 87.8   |
| <b>Total</b>       | Lumens    | 7774.0   | 0.0    | 7774.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 205.5  | 2.6       |
| 10°-20°   | 537.0  | 6.9       |
| 20°-30°   | 916.9  | 11.8      |
| 30°-40°   | 1688.4 | 21.7      |
| 40°-50°   | 2622.1 | 33.7      |
| 50°-60°   | 1578.1 | 20.3      |
| 60°-70°   | 182.5  | 2.3       |
| 70°-80°   | 35.3   | 0.5       |
| 80°-90°   | 8.2    | 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°    | 7774.0 | 100.0     |
| 0°-180°   | 7774.0 | 100.0     |

**Coefficient of Utilization**



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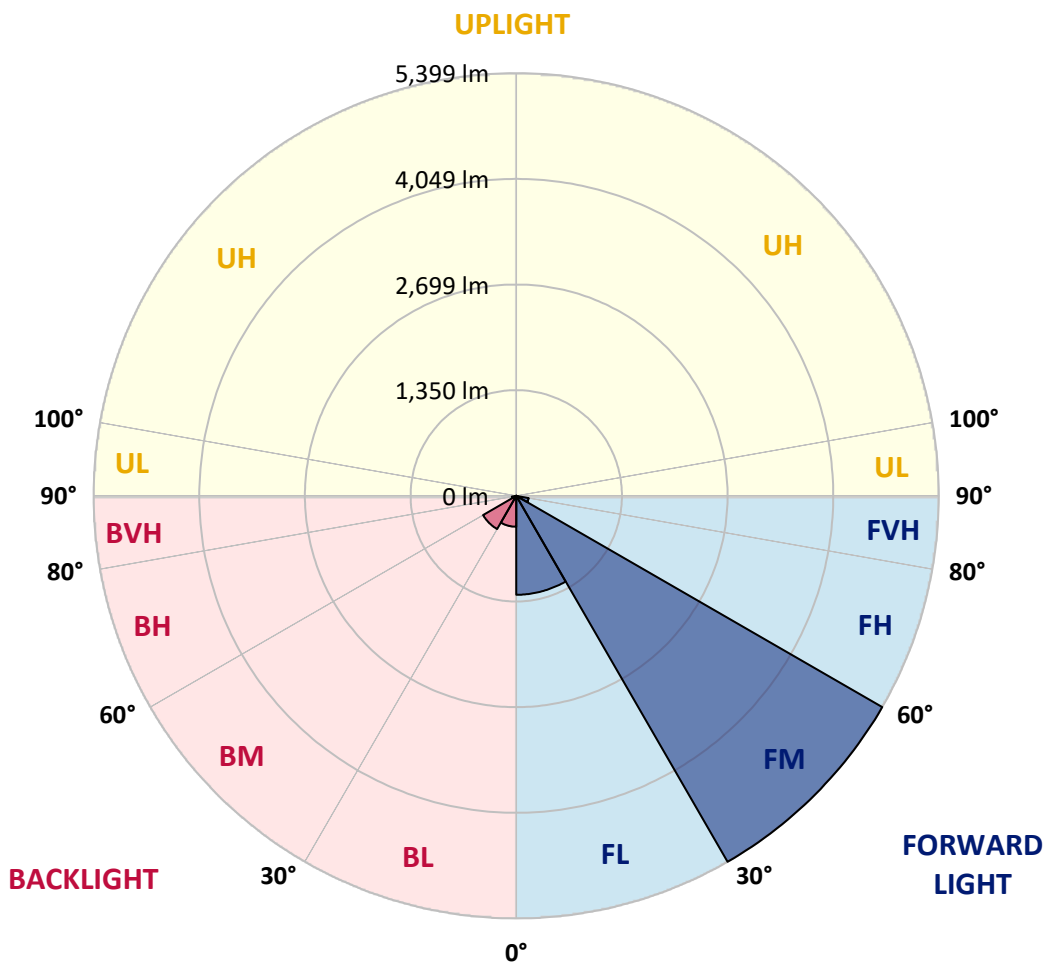
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 1264.0 | 16.3      |                         |      |        |
| FM (30°-60°)   | 5398.9 | 69.4      |                         |      |        |
| FH (60°-80°)   | 160.7  | 2.1       |                         |      | G0/660 |
| FVH (80°-90°)  | 3.9    | 0.1       |                         |      | G0/10  |
| BL (0°-30°)    | 395.4  | 5.1       | B1/500                  |      |        |
| BM (30°-60°)   | 489.7  | 6.3       | B1/1000                 |      |        |
| BH (60°-80°)   | 57.1   | 0.7       | B0/110                  |      | G0/110 |
| BVH (80°-90°)  | 4.3    | 0.1       |                         |      | G0/10  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B1-U0-G0**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 52°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2245.0 | 2245.0 | 2245.0 | 2245.0 | 2245.0 | 2245.0 | 2245.0 | 2245.0 | 2245.0 | 2245.0 | 2245.0 |
| 2.5°  | 2721.0 | 2658.6 | 2664.3 | 2623.5 | 2599.7 | 2561.2 | 2509.1 | 2498.9 | 2442.2 | 2365.1 | 2286.9 |
| 5°    | 2965.8 | 2951.0 | 2970.3 | 2911.4 | 2913.6 | 2850.2 | 2727.8 | 2730.0 | 2599.7 | 2473.9 | 2352.7 |
| 7.5°  | 2981.6 | 2947.6 | 2966.9 | 3019.0 | 3049.6 | 3038.3 | 2969.2 | 2909.1 | 2785.6 | 2600.8 | 2424.1 |
| 10°   | 2670.0 | 2734.6 | 2755.0 | 2841.1 | 2963.5 | 3092.7 | 3084.8 | 3088.2 | 2985.0 | 2743.6 | 2485.3 |
| 12.5° | 2483.0 | 2439.9 | 2509.1 | 2561.2 | 2745.9 | 2996.4 | 3110.8 | 3135.8 | 3143.7 | 2881.9 | 2546.5 |
| 15°   | 2398.0 | 2398.0 | 2409.3 | 2424.1 | 2557.8 | 2789.0 | 3022.4 | 3095.0 | 3266.1 | 3063.2 | 2642.8 |
| 17.5° | 2451.3 | 2449.0 | 2464.9 | 2434.3 | 2484.1 | 2662.0 | 2940.8 | 3023.6 | 3403.2 | 3241.1 | 2718.7 |
| 20°   | 2613.3 | 2621.2 | 2611.0 | 2522.7 | 2526.1 | 2659.8 | 2850.2 | 2980.5 | 3496.1 | 3395.3 | 2819.6 |
| 22.5° | 2838.8 | 2843.4 | 2785.6 | 2689.2 | 2660.9 | 2726.6 | 2902.3 | 3002.0 | 3570.9 | 3580.0 | 2850.2 |
| 25°   | 3099.5 | 3081.4 | 3070.0 | 2934.0 | 2847.9 | 2904.6 | 3020.2 | 3078.0 | 3617.4 | 3738.6 | 2937.4 |
| 27.5° | 3461.0 | 3424.7 | 3355.6 | 3234.3 | 3170.9 | 3090.4 | 3173.1 | 3268.3 | 3750.0 | 3960.8 | 3032.6 |
| 30°   | 3994.8 | 3963.0 | 3828.2 | 3671.8 | 3505.2 | 3425.9 | 3451.9 | 3504.1 | 3989.1 | 4218.0 | 3158.4 |
| 32.5° | 4798.3 | 4731.4 | 4536.5 | 4238.4 | 4011.8 | 3793.0 | 3786.2 | 3841.8 | 4203.3 | 4573.9 | 3308.0 |
| 35°   | 5683.3 | 5662.9 | 5376.2 | 5069.1 | 4630.5 | 4292.8 | 4298.5 | 4327.9 | 4613.5 | 5040.8 | 3504.1 |
| 37.5° | 6271.5 | 6383.7 | 6201.2 | 5871.5 | 5503.1 | 5020.4 | 4898.0 | 4908.2 | 5176.8 | 5593.8 | 3857.6 |
| 40°   | 6725.9 | 6630.7 | 6652.3 | 6575.2 | 6323.6 | 5995.0 | 5724.1 | 5670.9 | 5828.4 | 6205.8 | 4209.0 |
| 42.5° | 6527.6 | 6532.2 | 6664.7 | 6847.2 | 6909.5 | 6885.7 | 6609.2 | 6508.4 | 6386.0 | 6706.7 | 4543.3 |
| 45°   | 5967.8 | 6084.5 | 6256.8 | 6739.5 | 7163.4 | 7561.2 | 7506.8 | 7339.0 | 6771.3 | 7103.3 | 4735.9 |
| 47.5° | 5074.8 | 5070.2 | 5352.4 | 5980.3 | 6922.0 | 7853.5 | 8100.6 | 7982.7 | 7044.4 | 7059.1 | 4696.3 |
| 48°   | 4745.0 | 4826.6 | 5117.8 | 5856.7 | 6769.0 | 7810.5 | 8153.9 | 8005.4 | 6997.9 | 7000.2 | 4662.3 |
| 50°   | 3507.5 | 3492.7 | 3855.4 | 4762.0 | 6046.0 | 7339.0 | 7929.5 | 8045.1 | 6996.8 | 6702.1 | 4424.3 |
| 52.5° | 1852.9 | 1916.4 | 2180.4 | 2994.1 | 4274.7 | 6006.3 | 6994.5 | 7174.7 | 6749.7 | 6214.8 | 4082.0 |
| 55°   | 787.6  | 711.7  | 914.5  | 1352.0 | 2404.8 | 4012.9 | 5131.4 | 5532.6 | 5707.1 | 5499.7 | 3570.9 |
| 57.5° | 281.1  | 307.1  | 353.6  | 508.8  | 1010.9 | 2196.3 | 3059.8 | 3371.5 | 3954.0 | 4035.6 | 2433.1 |
| 60°   | 180.2  | 183.6  | 198.3  | 233.5  | 379.6  | 846.6  | 1451.7 | 1699.9 | 1964.0 | 2027.4 | 1135.5 |
| 62.5° | 139.4  | 140.5  | 147.3  | 153.0  | 180.2  | 328.6  | 545.1  | 646.0  | 670.9  | 576.8  | 298.0  |
| 65°   | 116.7  | 117.9  | 120.1  | 120.1  | 128.1  | 154.1  | 190.4  | 209.7  | 204.0  | 201.7  | 168.9  |
| 67.5° | 89.5   | 91.8   | 96.3   | 96.3   | 100.9  | 94.1   | 105.4  | 112.2  | 126.9  | 154.1  | 143.9  |
| 70°   | 70.3   | 71.4   | 74.8   | 77.1   | 77.1   | 68.0   | 75.9   | 82.7   | 92.9   | 114.5  | 113.3  |
| 72.5° | 54.4   | 56.7   | 58.9   | 58.9   | 55.5   | 46.5   | 54.4   | 60.1   | 66.9   | 79.3   | 77.1   |
| 75°   | 41.9   | 41.9   | 43.1   | 35.1   | 27.2   | 23.8   | 32.9   | 39.7   | 49.9   | 52.1   | 43.1   |
| 77.5° | 11.3   | 12.5   | 11.3   | 10.2   | 11.3   | 17.0   | 21.5   | 24.9   | 31.7   | 31.7   | 28.3   |
| 80°   | 0.0    | 1.1    | 3.4    | 6.8    | 11.3   | 15.9   | 19.3   | 21.5   | 24.9   | 27.2   | 26.1   |
| 82.5° | 0.0    | 1.1    | 3.4    | 6.8    | 10.2   | 12.5   | 17.0   | 18.1   | 20.4   | 23.8   | 23.8   |
| 85°   | 0.0    | 1.1    | 2.3    | 4.5    | 6.8    | 7.9    | 7.9    | 6.8    | 6.8    | 5.7    | 4.5    |
| 87.5° | 0.0    | 0.0    | 1.1    | 2.3    | 2.3    | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    |
| 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°    | 2245.0 | 2245.0 | 2245.0 | 2245.0 | 2245.0 | 2245.0 | 2245.0 | 2245.0 | 2245.0 | 2245.0 | 2245.0 |
| 2.5°  | 2256.3 | 2221.2 | 2167.9 | 2084.1 | 2003.6 | 1951.5 | 1901.6 | 1846.1 | 1815.5 | 1813.2 | 1796.2 |
| 5°    | 2283.5 | 2204.2 | 2077.3 | 1933.4 | 1779.2 | 1646.6 | 1512.9 | 1425.6 | 1347.5 | 1304.4 | 1296.5 |
| 7.5°  | 2298.3 | 2195.1 | 1990.0 | 1748.6 | 1485.7 | 1269.3 | 1119.7 | 1009.7 | 966.7  | 934.9  | 933.8  |
| 10°   | 2328.9 | 2179.3 | 1859.7 | 1503.8 | 1178.6 | 959.9  | 856.7  | 806.9  | 783.1  | 774.0  | 760.4  |
| 12.5° | 2351.5 | 2149.8 | 1726.0 | 1252.3 | 931.5  | 795.6  | 750.2  | 738.9  | 740.0  | 744.6  | 738.9  |
| 15°   | 2383.3 | 2123.7 | 1545.8 | 1027.9 | 782.0  | 716.2  | 716.2  | 718.5  | 734.4  | 736.6  | 735.5  |
| 17.5° | 2381.0 | 2072.7 | 1359.9 | 846.6  | 691.3  | 682.2  | 685.6  | 707.2  | 717.4  | 720.8  | 712.8  |
| 20°   | 2408.2 | 2025.1 | 1168.4 | 723.0  | 640.3  | 653.9  | 676.6  | 682.2  | 694.7  | 697.0  | 687.9  |
| 22.5° | 2400.3 | 1906.2 | 990.5  | 625.6  | 601.8  | 627.8  | 650.5  | 657.3  | 653.9  | 647.1  | 646.0  |
| 25°   | 2385.5 | 1804.2 | 827.3  | 561.0  | 573.4  | 601.8  | 623.3  | 610.8  | 604.0  | 605.2  | 606.3  |
| 27.5° | 2359.5 | 1675.0 | 692.4  | 515.6  | 534.9  | 576.8  | 575.7  | 571.2  | 578.0  | 572.3  | 578.0  |
| 30°   | 2354.9 | 1545.8 | 581.4  | 474.8  | 506.6  | 537.2  | 539.4  | 547.4  | 555.3  | 545.1  | 555.3  |
| 32.5° | 2361.7 | 1404.1 | 502.0  | 449.9  | 489.6  | 490.7  | 515.6  | 523.6  | 517.9  | 495.2  | 497.5  |
| 35°   | 2413.9 | 1295.3 | 444.2  | 436.3  | 462.4  | 463.5  | 487.3  | 477.1  | 452.2  | 438.6  | 446.5  |
| 37.5° | 2523.8 | 1204.7 | 417.0  | 423.8  | 426.1  | 440.8  | 442.0  | 421.6  | 423.8  | 422.7  | 427.2  |
| 40°   | 2664.3 | 1135.5 | 397.8  | 412.5  | 410.2  | 420.4  | 379.6  | 391.0  | 401.2  | 404.6  | 406.8  |
| 42.5° | 2760.6 | 1085.7 | 385.3  | 394.4  | 389.8  | 371.7  | 349.0  | 360.4  | 368.3  | 380.8  | 383.0  |
| 45°   | 2803.7 | 1046.0 | 370.6  | 362.6  | 362.6  | 329.8  | 320.7  | 323.0  | 341.1  | 354.7  | 352.4  |
| 47.5° | 2733.4 | 1007.5 | 344.5  | 320.7  | 328.6  | 301.4  | 291.2  | 291.2  | 310.5  | 327.5  | 324.1  |
| 48°   | 2706.2 | 991.6  | 345.6  | 311.6  | 317.3  | 296.9  | 286.7  | 284.5  | 306.0  | 321.8  | 321.8  |
| 50°   | 2571.4 | 932.7  | 316.2  | 286.7  | 275.4  | 273.1  | 266.3  | 268.6  | 282.2  | 296.9  | 296.9  |
| 52.5° | 2308.5 | 805.8  | 267.5  | 245.9  | 225.5  | 239.1  | 242.5  | 238.0  | 244.8  | 258.4  | 257.3  |
| 55°   | 1926.6 | 618.8  | 214.2  | 204.0  | 188.1  | 202.9  | 209.7  | 204.0  | 197.2  | 207.4  | 207.4  |
| 57.5° | 1234.1 | 333.2  | 171.1  | 173.4  | 157.5  | 172.3  | 177.9  | 164.3  | 151.9  | 159.8  | 158.7  |
| 60°   | 556.4  | 199.5  | 140.5  | 137.1  | 126.9  | 143.9  | 153.0  | 137.1  | 120.1  | 125.8  | 131.5  |
| 62.5° | 208.5  | 141.7  | 106.5  | 104.3  | 102.0  | 117.9  | 122.4  | 109.9  | 92.9   | 96.3   | 97.5   |
| 65°   | 153.0  | 124.7  | 85.0   | 77.1   | 81.6   | 92.9   | 90.7   | 78.2   | 66.9   | 66.9   | 69.1   |
| 67.5° | 130.3  | 108.8  | 69.1   | 60.1   | 60.1   | 61.2   | 56.7   | 49.9   | 46.5   | 48.7   | 51.0   |
| 70°   | 102.0  | 86.1   | 54.4   | 46.5   | 41.9   | 37.4   | 32.9   | 31.7   | 28.3   | 31.7   | 30.6   |
| 72.5° | 65.7   | 57.8   | 41.9   | 35.1   | 31.7   | 26.1   | 21.5   | 20.4   | 17.0   | 15.9   | 15.9   |
| 75°   | 35.1   | 35.1   | 32.9   | 28.3   | 24.9   | 20.4   | 17.0   | 13.6   | 9.1    | 6.8    | 6.8    |
| 77.5° | 24.9   | 27.2   | 29.5   | 27.2   | 22.7   | 17.0   | 13.6   | 9.1    | 4.5    | 2.3    | 2.3    |
| 80°   | 23.8   | 27.2   | 29.5   | 26.1   | 22.7   | 17.0   | 12.5   | 6.8    | 3.4    | 1.1    | 1.1    |
| 82.5° | 21.5   | 24.9   | 27.2   | 23.8   | 20.4   | 14.7   | 11.3   | 6.8    | 3.4    | 1.1    | 1.1    |
| 85°   | 4.5    | 5.7    | 6.8    | 6.8    | 7.9    | 10.2   | 7.9    | 5.7    | 2.3    | 1.1    | 1.1    |
| 87.5° | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    | 2.3    | 2.3    | 1.1    | 1.1    | 1.1    |
| 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)