

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: P949174

Luminaire Tested: **GALN-SB4A-730-U-T3R**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P949174  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4A-730-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 18456 lumens  
Efficiency: N/A  
Efficacy: 161.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 114  
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

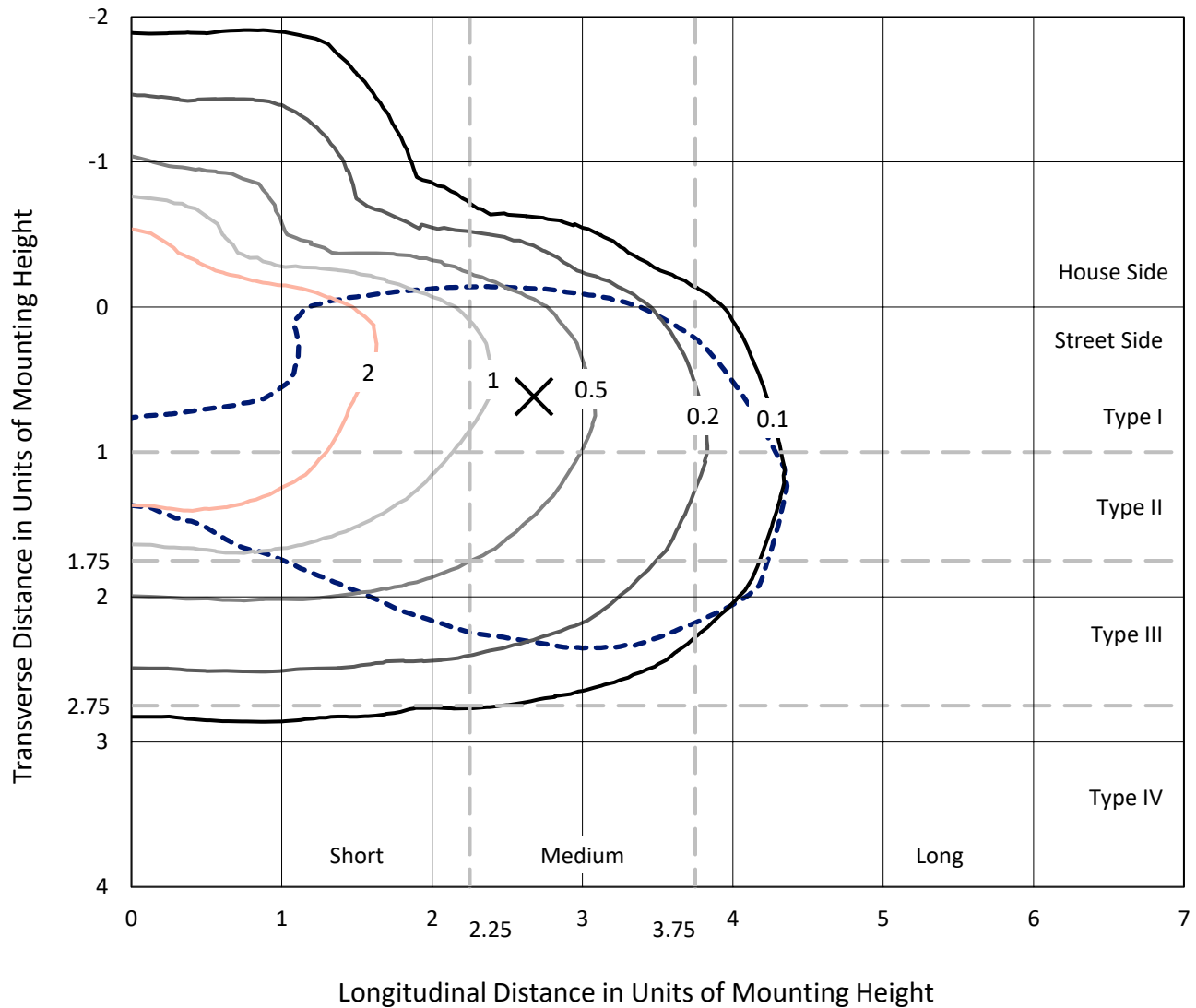


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

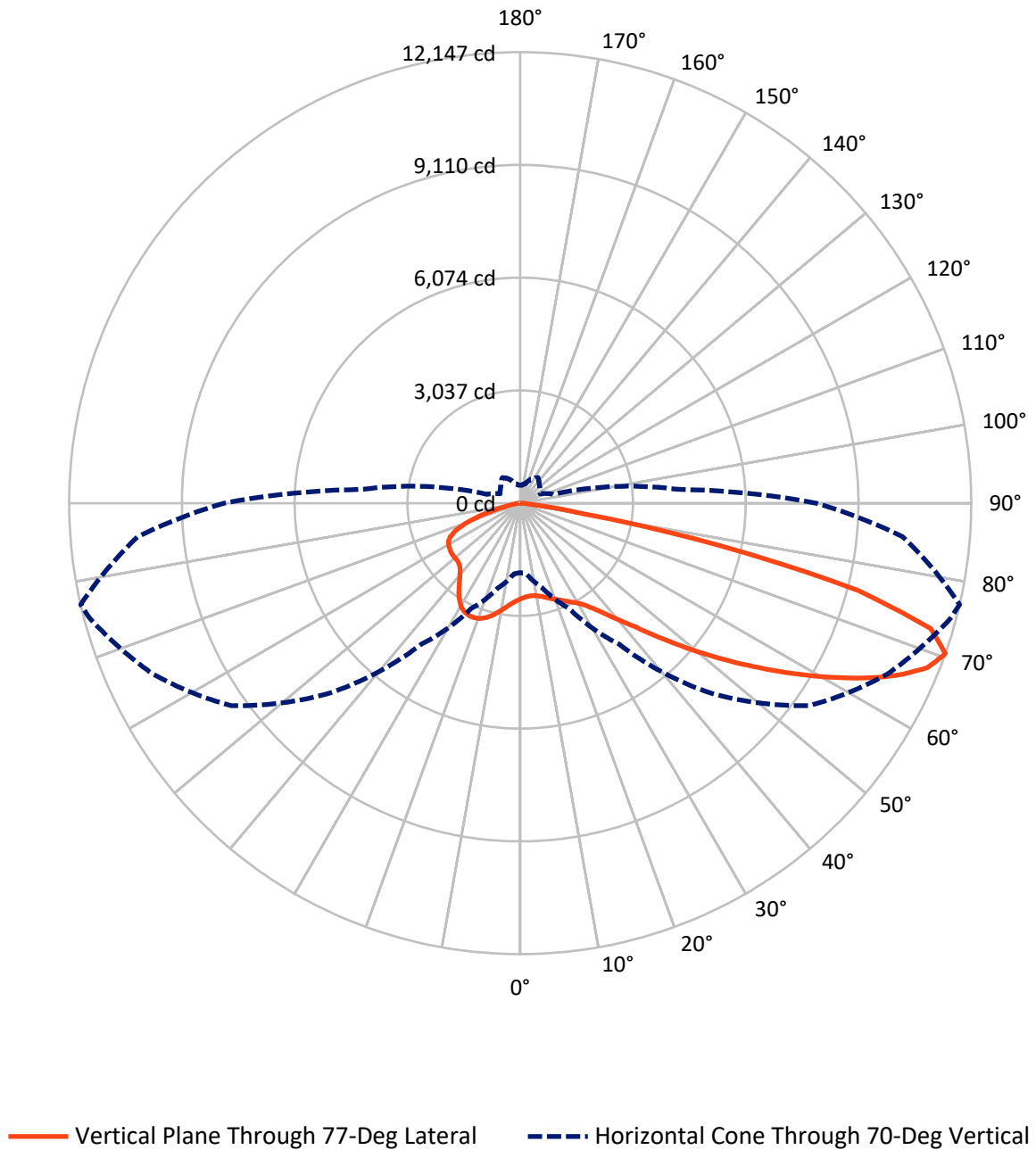


Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4041.6   | 0.0    | 4041.6  |
|                    | % Fixture | 21.9     | 0.0    | 21.9    |
| <b>Street Side</b> | Lumens    | 14414.4  | 0.0    | 14414.4 |
|                    | % Fixture | 78.1     | 0.0    | 78.1    |
| <b>Total</b>       | Lumens    | 18456.0  | 0.0    | 18456.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 245.6   | 1.3       |
| 10°-20°   | 708.7   | 3.8       |
| 20°-30°   | 1212.0  | 6.6       |
| 30°-40°   | 1949.0  | 10.6      |
| 40°-50°   | 3043.0  | 16.5      |
| 50°-60°   | 4064.7  | 22.0      |
| 60°-70°   | 4332.3  | 23.5      |
| 70°-80°   | 2667.0  | 14.5      |
| 80°-90°   | 233.7   | 1.3       |
| 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°    | 18456.0 | 100.0     |
| 0°-180°   | 18456.0 | 100.0     |

**Coefficient of Utilization**



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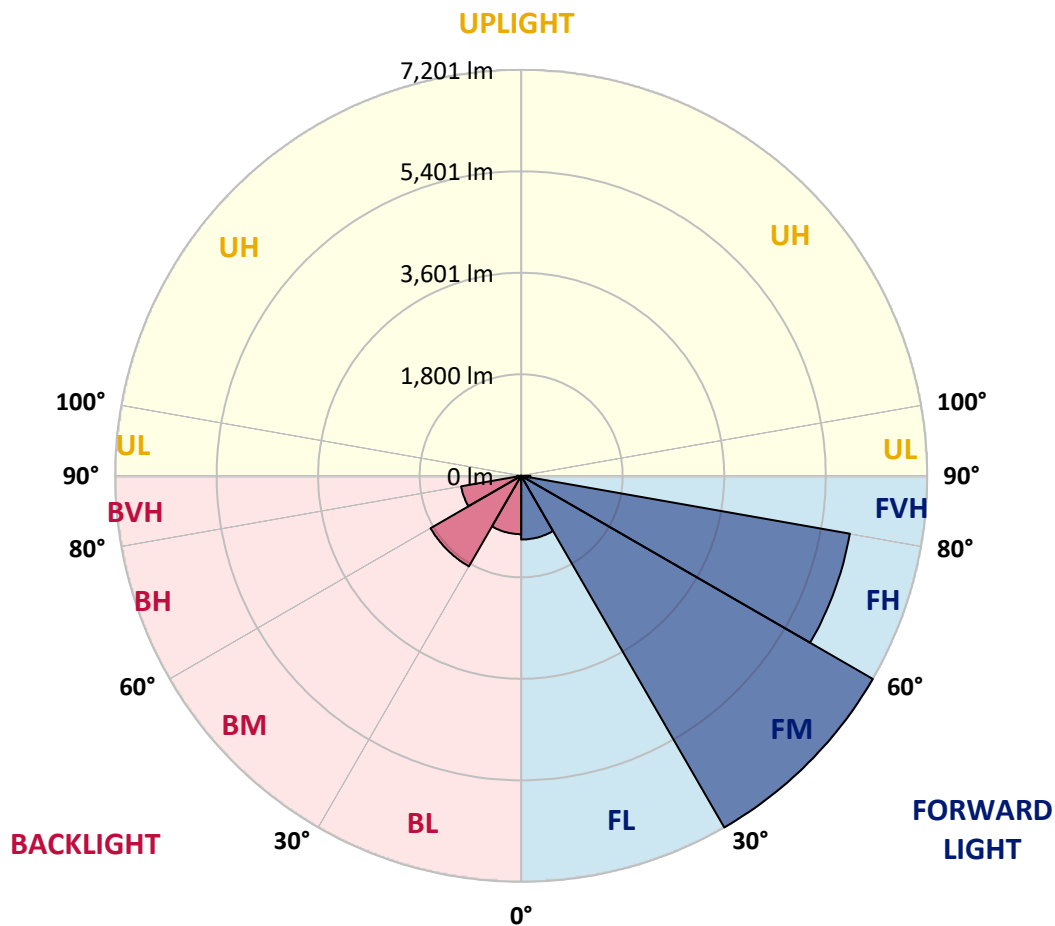
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1130.7 | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 7201.1 | 39.0      |                         |      |         |
| FH   | (60°-80°)   | 5919.1 | 32.1      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 163.4  | 0.9       |                         |      | G2/225  |
| BL   | (0°-30°)    | 1035.6 | 5.6       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 1855.6 | 10.1      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1080.1 | 5.9       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 70.3   | 0.4       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°     | 75°     | 77°     | 85°     |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0°    | 2574.8 | 2574.8 | 2574.8 | 2574.8 | 2574.8 | 2574.8 | 2574.8 | 2574.8  | 2574.8  | 2574.8  | 2574.8  |
| 2.5°  | 2373.4 | 2372.5 | 2384.8 | 2388.6 | 2411.3 | 2427.3 | 2457.6 | 2489.7  | 2531.3  | 2536.0  | 2561.5  |
| 5°    | 2236.4 | 2236.4 | 2250.6 | 2265.7 | 2295.0 | 2327.1 | 2373.4 | 2429.2  | 2501.1  | 2512.4  | 2575.7  |
| 7.5°  | 2120.1 | 2127.7 | 2140.0 | 2169.3 | 2203.3 | 2249.6 | 2320.5 | 2399.9  | 2494.4  | 2512.4  | 2614.5  |
| 10°   | 2026.6 | 2035.1 | 2050.2 | 2073.8 | 2124.9 | 2189.1 | 2281.8 | 2383.8  | 2510.5  | 2538.9  | 2671.2  |
| 12.5° | 1997.3 | 2005.8 | 2014.3 | 2032.2 | 2079.5 | 2155.1 | 2265.7 | 2391.4  | 2549.3  | 2577.6  | 2748.7  |
| 15°   | 2065.3 | 2075.7 | 2069.1 | 2064.4 | 2088.9 | 2157.9 | 2273.3 | 2418.8  | 2597.5  | 2638.1  | 2844.2  |
| 17.5° | 2222.2 | 2226.0 | 2210.9 | 2166.4 | 2162.7 | 2199.5 | 2309.2 | 2456.6  | 2658.0  | 2702.4  | 2940.6  |
| 20°   | 2475.5 | 2468.9 | 2437.7 | 2349.8 | 2299.7 | 2292.2 | 2370.6 | 2513.3  | 2720.3  | 2767.6  | 3044.6  |
| 22.5° | 2819.6 | 2812.0 | 2749.6 | 2610.7 | 2499.2 | 2425.4 | 2459.5 | 2587.1  | 2790.3  | 2843.2  | 3145.7  |
| 25°   | 3248.7 | 3238.3 | 3146.6 | 2957.6 | 2784.6 | 2602.2 | 2580.5 | 2684.4  | 2876.3  | 2925.5  | 3251.6  |
| 27.5° | 3749.7 | 3741.2 | 3641.9 | 3392.4 | 3142.9 | 2844.2 | 2730.7 | 2798.8  | 2966.1  | 3021.9  | 3370.7  |
| 30°   | 4288.5 | 4313.0 | 4137.2 | 3868.8 | 3553.1 | 3159.9 | 2933.0 | 2939.6  | 3082.4  | 3132.5  | 3515.3  |
| 32.5° | 4921.8 | 4964.3 | 4752.6 | 4412.3 | 3981.3 | 3503.0 | 3188.2 | 3136.2  | 3251.6  | 3293.1  | 3697.7  |
| 35°   | 5549.4 | 5597.6 | 5421.8 | 5045.6 | 4549.3 | 3907.5 | 3454.8 | 3362.1  | 3476.5  | 3521.9  | 3939.7  |
| 37.5° | 6091.9 | 6156.2 | 6065.5 | 5738.4 | 5157.1 | 4395.3 | 3802.6 | 3627.8  | 3753.5  | 3810.2  | 4264.8  |
| 40°   | 6520.1 | 6618.4 | 6611.8 | 6407.6 | 5873.6 | 4987.0 | 4244.0 | 3955.7  | 4097.5  | 4159.0  | 4659.0  |
| 42.5° | 6868.0 | 6953.0 | 7026.8 | 7016.4 | 6621.3 | 5659.0 | 4763.0 | 4382.0  | 4489.8  | 4560.7  | 5102.3  |
| 45°   | 7108.1 | 7198.8 | 7357.6 | 7528.7 | 7340.6 | 6378.3 | 5357.5 | 4887.7  | 4986.0  | 5092.8  | 5630.7  |
| 47.5° | 7322.6 | 7425.7 | 7631.7 | 7903.0 | 7951.2 | 7100.5 | 6008.8 | 5476.6  | 5566.4  | 5677.0  | 6160.9  |
| 50°   | 7341.5 | 7430.4 | 7749.9 | 8134.6 | 8385.1 | 7794.3 | 6708.2 | 6137.3  | 6221.4  | 6339.6  | 6729.0  |
| 52.5° | 6885.0 | 7024.9 | 7582.6 | 8128.0 | 8584.5 | 8374.7 | 7403.0 | 6824.5  | 6919.0  | 7060.8  | 7317.0  |
| 55°   | 5344.3 | 5549.4 | 7092.0 | 7874.6 | 8513.6 | 8749.9 | 8063.7 | 7555.1  | 7676.1  | 7824.5  | 7908.7  |
| 57.5° | 4603.2 | 4693.0 | 5629.7 | 7413.4 | 8190.3 | 8847.3 | 8621.4 | 8293.4  | 8488.1  | 8650.7  | 8534.4  |
| 60°   | 4137.2 | 4211.9 | 4765.8 | 6695.9 | 7765.0 | 8693.2 | 9052.4 | 8981.5  | 9318.0  | 9511.8  | 9174.3  |
| 62.5° | 3638.2 | 3709.0 | 4212.8 | 5591.0 | 7220.5 | 8437.0 | 9324.6 | 9616.7  | 10168.7 | 10380.4 | 9777.4  |
| 65°   | 3142.9 | 3203.4 | 3686.4 | 4697.7 | 6528.6 | 8180.9 | 9465.4 | 10165.8 | 10956.0 | 11175.3 | 10278.3 |
| 67.5° | 2590.8 | 2640.9 | 3097.5 | 3963.3 | 5687.4 | 7830.2 | 9535.4 | 10597.8 | 11641.3 | 11829.4 | 10526.0 |
| 70°   | 1869.6 | 1908.4 | 2380.1 | 3134.4 | 4631.6 | 7227.2 | 9507.0 | 10904.1 | 11996.7 | 12147.0 | 10338.8 |
| 72.5° | 883.8  | 918.8  | 1472.7 | 2035.1 | 3271.4 | 6053.2 | 8933.3 | 10661.1 | 11635.7 | 11561.0 | 9193.2  |
| 75°   | 471.7  | 501.9  | 846.0  | 1116.3 | 1727.9 | 4149.5 | 7310.3 | 9183.8  | 9770.7  | 9407.8  | 6794.2  |
| 77.5° | 319.5  | 343.1  | 523.7  | 670.2  | 789.3  | 1969.8 | 4698.7 | 6358.5  | 6117.5  | 5518.2  | 3402.8  |
| 80°   | 253.3  | 277.9  | 429.1  | 453.7  | 381.9  | 711.8  | 1941.5 | 2943.4  | 2114.5  | 1691.0  | 967.9   |
| 82.5° | 194.7  | 222.1  | 361.1  | 328.9  | 207.9  | 292.1  | 565.2  | 931.0   | 541.6   | 412.1   | 234.4   |
| 85°   | 119.1  | 148.4  | 283.6  | 209.8  | 117.2  | 133.3  | 191.9  | 259.0   | 165.4   | 138.0   | 84.1    |
| 87.5° | 60.5   | 85.1   | 143.7  | 76.6   | 52.9   | 31.2   | 51.0   | 51.0    | 43.5    | 37.8    | 21.7    |
| 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°    | 2574.8 | 2574.8 | 2574.8 | 2574.8 | 2574.8 | 2574.8 | 2574.8 | 2574.8 | 2574.8 | 2574.8 | 2574.8 |
| 2.5°  | 2584.2 | 2603.1 | 2635.3 | 2665.5 | 2689.2 | 2711.8 | 2734.5 | 2746.8 | 2750.6 | 2765.7 | 2774.2 |
| 5°    | 2614.5 | 2649.5 | 2711.8 | 2770.4 | 2807.3 | 2830.0 | 2846.1 | 2855.5 | 2857.4 | 2862.1 | 2869.7 |
| 7.5°  | 2670.2 | 2726.0 | 2813.0 | 2871.6 | 2899.0 | 2897.1 | 2890.5 | 2866.9 | 2857.4 | 2848.9 | 2850.8 |
| 10°   | 2748.7 | 2822.4 | 2929.2 | 2969.9 | 2952.9 | 2907.5 | 2848.9 | 2779.9 | 2747.8 | 2716.6 | 2707.1 |
| 12.5° | 2846.1 | 2939.6 | 3044.6 | 3042.7 | 2958.5 | 2842.3 | 2706.2 | 2600.3 | 2533.2 | 2485.0 | 2473.6 |
| 15°   | 2964.2 | 3072.0 | 3152.3 | 3088.0 | 2903.7 | 2694.8 | 2495.4 | 2357.4 | 2296.9 | 2244.0 | 2238.3 |
| 17.5° | 3086.1 | 3201.5 | 3238.3 | 3073.9 | 2765.7 | 2476.5 | 2250.6 | 2141.9 | 2082.3 | 2054.0 | 2062.5 |
| 20°   | 3205.2 | 3319.6 | 3289.4 | 2992.6 | 2555.9 | 2228.8 | 2027.5 | 1967.9 | 1955.7 | 1962.3 | 1959.4 |
| 22.5° | 3331.0 | 3433.0 | 3299.8 | 2835.7 | 2288.4 | 1975.5 | 1864.9 | 1866.8 | 1894.2 | 1914.1 | 1918.8 |
| 25°   | 3459.5 | 3528.5 | 3272.4 | 2608.8 | 2001.0 | 1789.3 | 1761.9 | 1792.1 | 1846.0 | 1884.8 | 1895.2 |
| 27.5° | 3583.3 | 3613.6 | 3212.8 | 2328.1 | 1754.3 | 1656.0 | 1660.8 | 1723.1 | 1804.4 | 1858.3 | 1871.5 |
| 30°   | 3723.2 | 3689.2 | 3098.4 | 2012.4 | 1583.2 | 1541.7 | 1581.4 | 1654.1 | 1735.4 | 1783.6 | 1795.0 |
| 32.5° | 3881.1 | 3754.4 | 2917.0 | 1720.3 | 1462.3 | 1450.0 | 1515.2 | 1562.4 | 1598.4 | 1612.5 | 1620.1 |
| 35°   | 4077.7 | 3846.1 | 2684.4 | 1515.2 | 1353.6 | 1382.9 | 1445.2 | 1421.6 | 1407.4 | 1399.9 | 1407.4 |
| 37.5° | 4332.9 | 3969.9 | 2412.2 | 1381.9 | 1265.7 | 1334.7 | 1360.2 | 1286.4 | 1230.7 | 1203.3 | 1209.9 |
| 40°   | 4640.1 | 4151.4 | 2150.4 | 1278.9 | 1209.9 | 1293.1 | 1248.6 | 1159.8 | 1088.9 | 1050.1 | 1053.0 |
| 42.5° | 4981.3 | 4341.4 | 1930.1 | 1201.4 | 1178.7 | 1259.0 | 1166.4 | 1060.5 | 946.2  | 933.9  | 946.2  |
| 45°   | 5339.6 | 4537.1 | 1779.9 | 1141.8 | 1163.6 | 1229.7 | 1119.1 | 948.1  | 866.8  | 916.9  | 943.3  |
| 47.5° | 5697.8 | 4716.6 | 1689.1 | 1097.4 | 1156.0 | 1196.6 | 1077.6 | 885.7  | 828.0  | 900.8  | 934.8  |
| 50°   | 6096.7 | 4877.3 | 1648.5 | 1065.3 | 1147.5 | 1183.4 | 1015.2 | 869.6  | 787.4  | 835.6  | 871.5  |
| 52.5° | 6492.7 | 5002.1 | 1618.2 | 1033.1 | 1135.2 | 1173.0 | 984.9  | 850.7  | 738.2  | 741.1  | 760.9  |
| 55°   | 6887.8 | 5083.4 | 1585.1 | 990.6  | 1107.8 | 1150.3 | 982.1  | 829.9  | 701.4  | 688.1  | 697.6  |
| 57.5° | 7309.4 | 5129.7 | 1544.5 | 943.3  | 1060.5 | 1092.7 | 979.2  | 813.8  | 690.0  | 668.3  | 671.1  |
| 60°   | 7738.5 | 5197.8 | 1491.6 | 885.7  | 997.2  | 1023.7 | 972.6  | 808.2  | 683.4  | 646.5  | 649.4  |
| 62.5° | 8123.2 | 5221.4 | 1428.2 | 830.8  | 915.9  | 955.6  | 958.5  | 803.4  | 665.4  | 602.1  | 602.1  |
| 65°   | 8375.6 | 5119.3 | 1317.6 | 768.5  | 828.0  | 885.7  | 931.0  | 787.4  | 633.3  | 570.0  | 570.0  |
| 67.5° | 8365.2 | 4828.2 | 1144.7 | 688.1  | 742.9  | 808.2  | 891.3  | 760.0  | 594.5  | 530.3  | 533.1  |
| 70°   | 7975.8 | 4253.5 | 925.4  | 594.5  | 649.4  | 725.0  | 840.3  | 719.3  | 548.2  | 486.8  | 492.5  |
| 72.5° | 6840.6 | 3329.1 | 672.1  | 484.9  | 540.7  | 639.0  | 774.1  | 670.2  | 501.0  | 448.0  | 445.2  |
| 75°   | 4886.8 | 2106.9 | 455.6  | 372.4  | 420.6  | 541.6  | 691.9  | 612.5  | 457.5  | 449.9  | 424.4  |
| 77.5° | 2496.3 | 1006.7 | 301.5  | 272.2  | 293.0  | 427.2  | 581.3  | 547.3  | 464.1  | 371.5  | 330.8  |
| 80°   | 811.9  | 371.5  | 190.0  | 185.3  | 194.7  | 284.5  | 449.9  | 449.0  | 351.6  | 252.4  | 223.1  |
| 82.5° | 259.0  | 159.7  | 123.8  | 119.1  | 114.4  | 178.6  | 313.8  | 355.4  | 237.3  | 159.7  | 158.8  |
| 85°   | 103.0  | 95.5   | 72.8   | 67.1   | 48.2   | 84.1   | 164.5  | 236.3  | 176.8  | 115.3  | 118.2  |
| 87.5° | 37.8   | 37.8   | 19.8   | 14.2   | 10.4   | 28.4   | 44.4   | 70.9   | 101.1  | 59.5   | 58.6   |
| 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)