

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: P940929

Luminaire Tested: **GALN-SB4B-722-U-T4FT**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P940929  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4B-722-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 18426 lumens  
Efficiency: N/A  
Efficacy: 125.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 147  
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



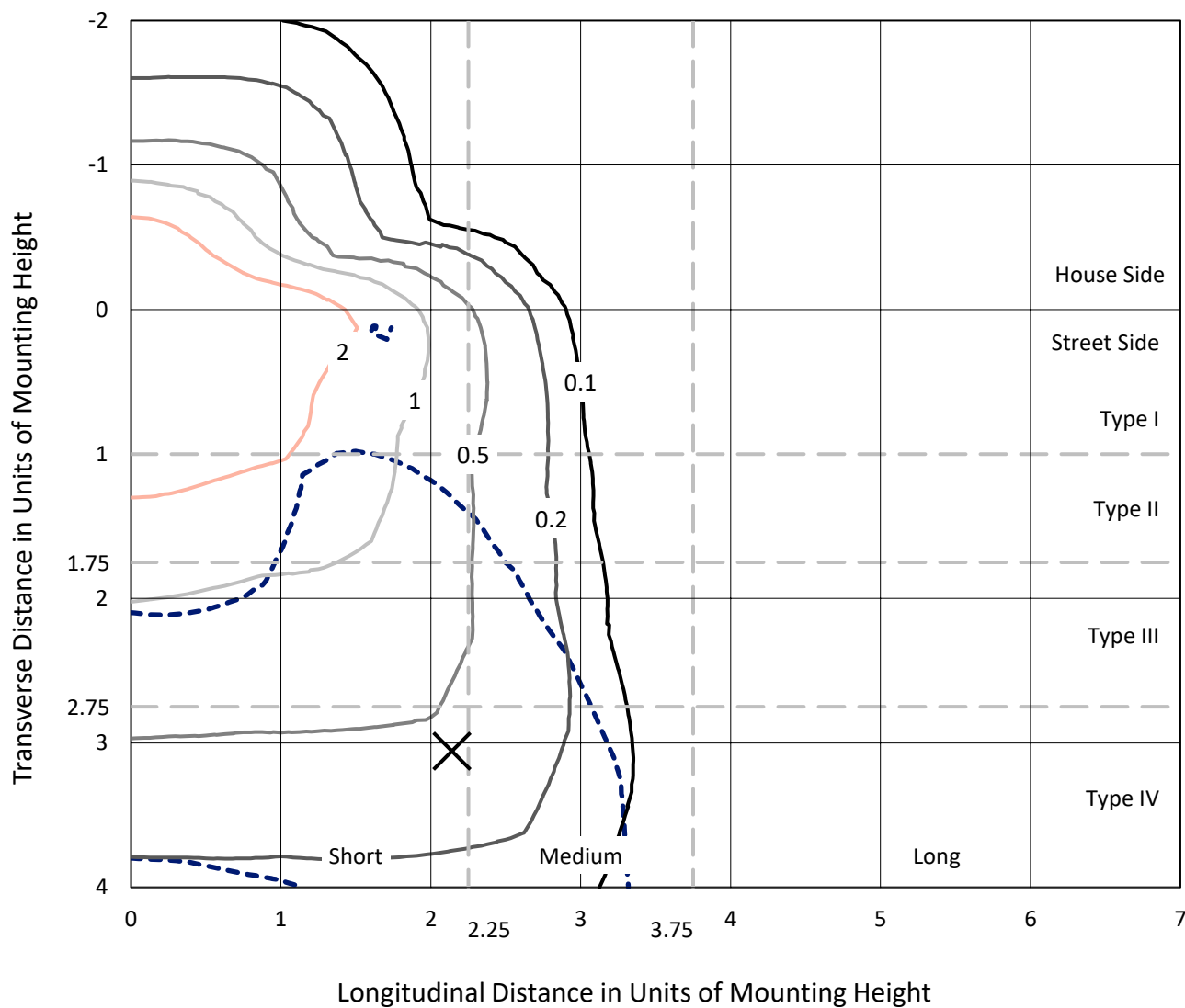
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

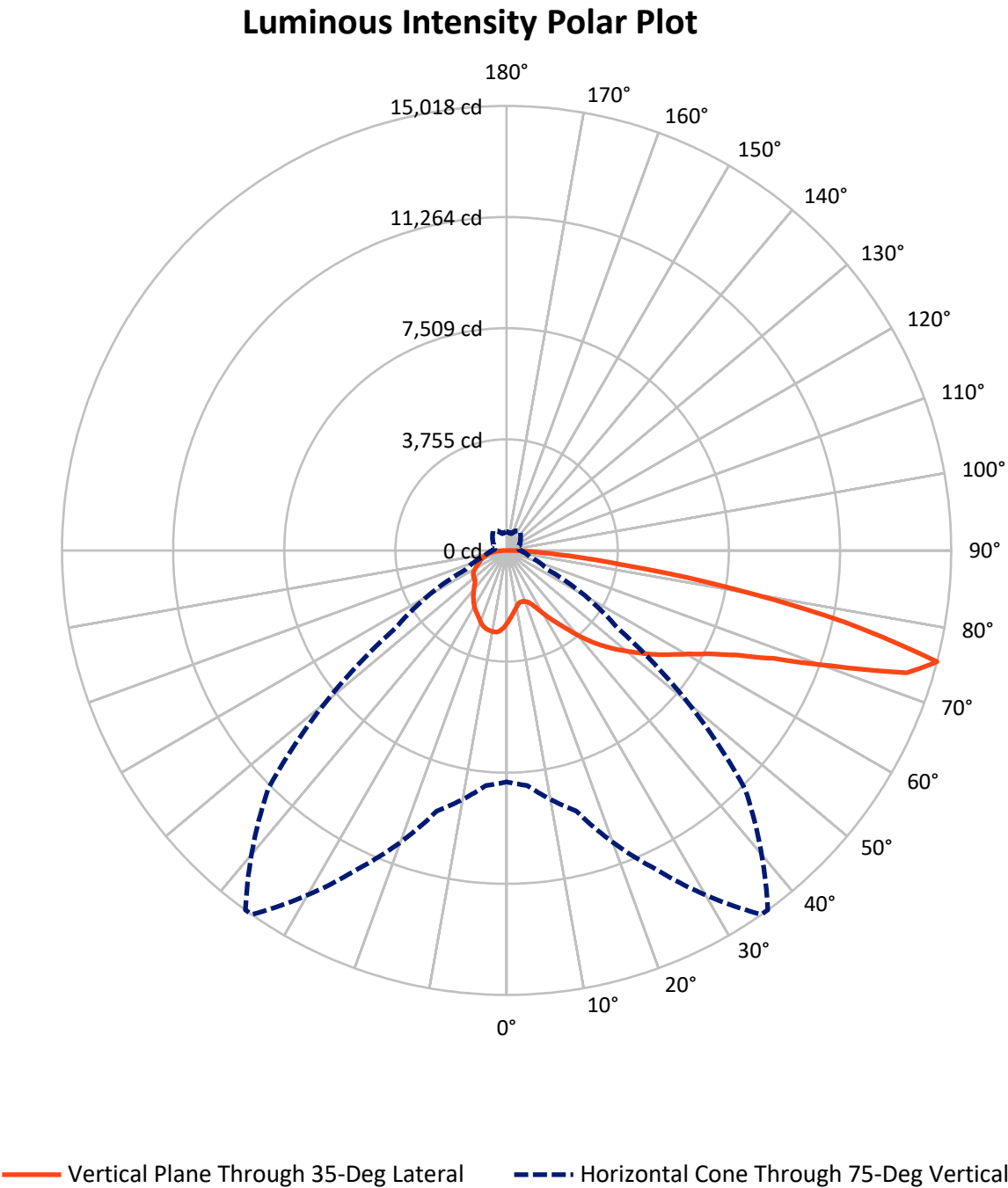
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc

Type IV - Short - N/A

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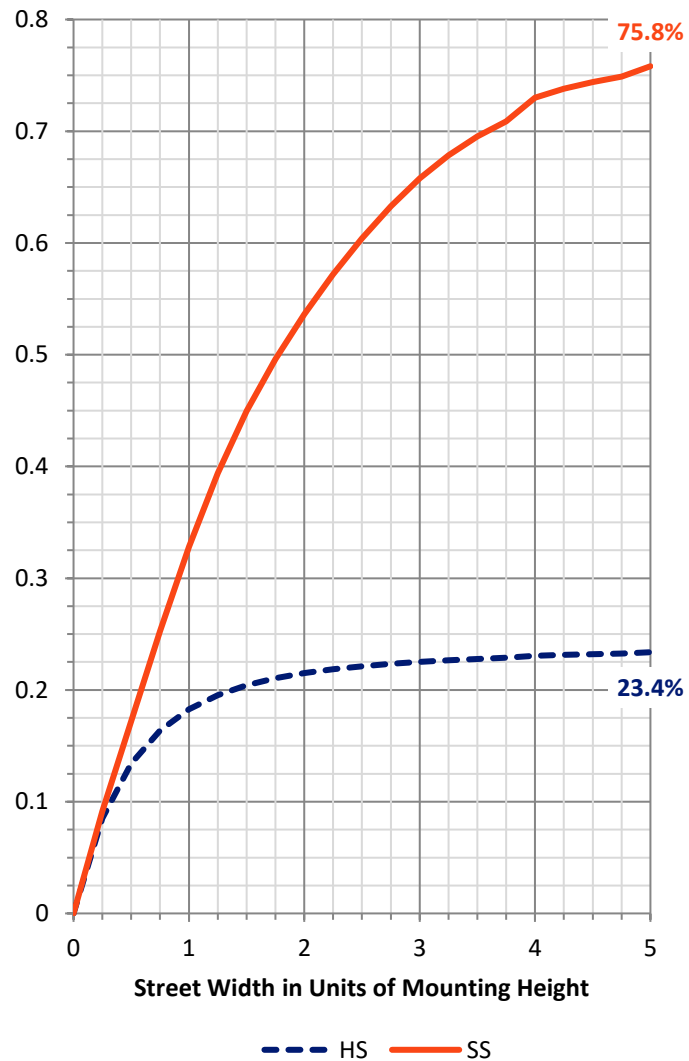
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4384.9   | 0.0    | 4384.9  |
|                    | % Fixture | 23.8     | 0.0    | 23.8    |
| <b>Street Side</b> | Lumens    | 14041.1  | 0.0    | 14041.1 |
|                    | % Fixture | 76.2     | 0.0    | 76.2    |
| <b>Total</b>       | Lumens    | 18426.0  | 0.0    | 18426.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 232.5   | 1.3       |
| 10°-20°   | 670.6   | 3.6       |
| 20°-30°   | 1126.0  | 6.1       |
| 30°-40°   | 1750.0  | 9.5       |
| 40°-50°   | 2597.5  | 14.1      |
| 50°-60°   | 3586.0  | 19.5      |
| 60°-70°   | 4350.7  | 23.6      |
| 70°-80°   | 3595.5  | 19.5      |
| 80°-90°   | 517.1   | 2.8       |
| 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°    | 18426.0 | 100.0     |
| 0°-180°   | 18426.0 | 100.0     |

**Coefficient of Utilization**



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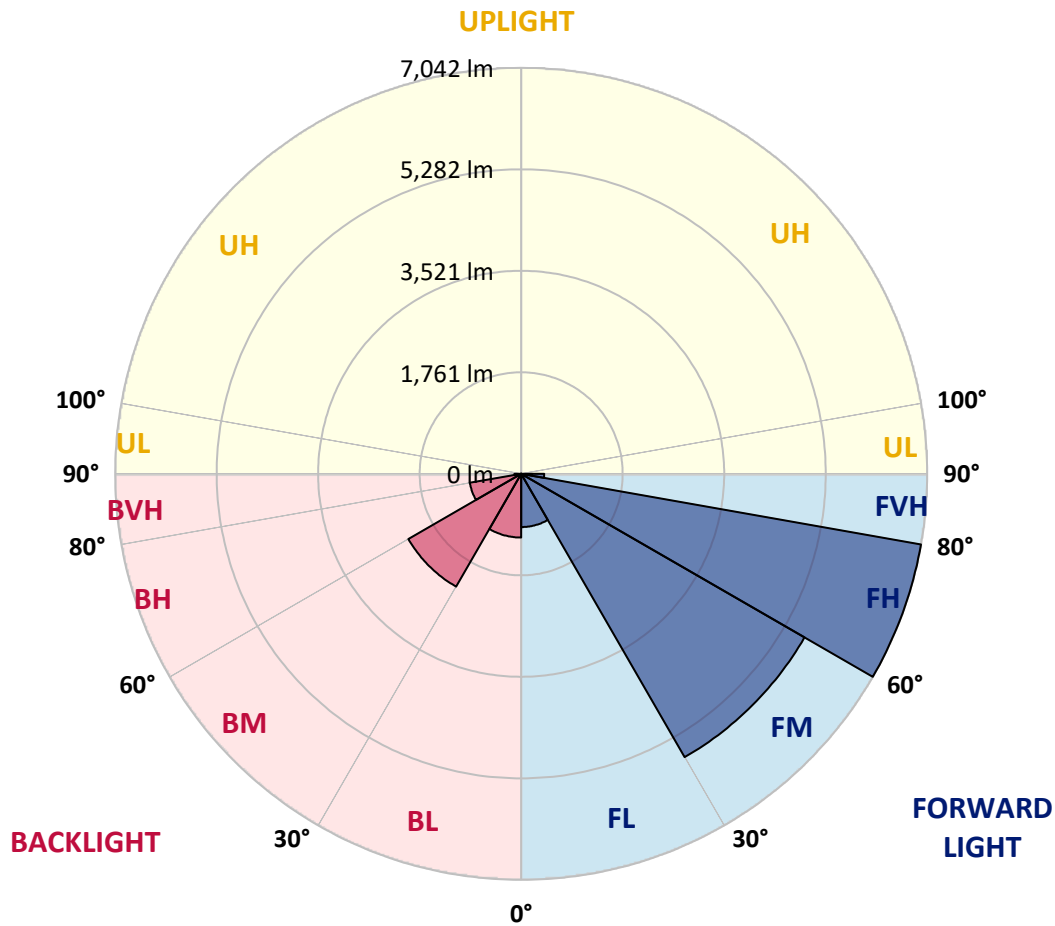
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 924.0  | 5.0       |                         |      |         |
| FM   | (30°-60°)   | 5674.2 | 30.8      |                         |      |         |
| FH   | (60°-80°)   | 7042.1 | 38.2      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 400.7  | 2.2       |                         |      | G3/500  |
| BL   | (0°-30°)    | 1105.1 | 6.0       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2259.4 | 12.3      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 904.0  | 4.9       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 116.5  | 0.6       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

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

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°     | 25°     | 35°     | 36°     | 45°     | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0°    | 2455.4 | 2455.4 | 2455.4  | 2455.4  | 2455.4  | 2455.4  | 2455.4  | 2455.4 | 2455.4 | 2455.4 | 2455.4 |
| 2.5°  | 2264.1 | 2278.1 | 2284.1  | 2281.1  | 2296.0  | 2294.0  | 2314.9  | 2340.8 | 2376.7 | 2411.6 | 2462.4 |
| 5°    | 2089.8 | 2104.8 | 2117.7  | 2129.7  | 2158.6  | 2167.5  | 2200.4  | 2250.2 | 2315.9 | 2382.7 | 2466.3 |
| 7.5°  | 1927.5 | 1940.4 | 1960.3  | 1982.2  | 2031.1  | 2040.0  | 2094.8  | 2172.5 | 2264.1 | 2361.8 | 2477.3 |
| 10°   | 1795.0 | 1807.9 | 1828.8  | 1853.7  | 1914.5  | 1925.5  | 1995.2  | 2098.8 | 2218.3 | 2341.8 | 2489.3 |
| 12.5° | 1738.2 | 1742.2 | 1754.1  | 1779.0  | 1831.8  | 1838.8  | 1915.5  | 2034.0 | 2173.5 | 2326.9 | 2507.2 |
| 15°   | 1735.2 | 1743.2 | 1744.2  | 1757.1  | 1801.0  | 1803.9  | 1874.7  | 1992.2 | 2145.6 | 2323.9 | 2534.1 |
| 17.5° | 1765.1 | 1771.1 | 1762.1  | 1770.1  | 1806.9  | 1811.9  | 1867.7  | 1972.3 | 2136.6 | 2336.9 | 2579.9 |
| 20°   | 1844.8 | 1849.8 | 1822.9  | 1811.9  | 1838.8  | 1842.8  | 1897.6  | 1985.2 | 2145.6 | 2363.7 | 2642.7 |
| 22.5° | 2014.1 | 2017.1 | 1951.4  | 1906.5  | 1908.5  | 1910.5  | 1958.3  | 2038.0 | 2180.5 | 2412.6 | 2722.3 |
| 25°   | 2278.1 | 2276.1 | 2171.5  | 2084.8  | 2035.0  | 2024.1  | 2056.0  | 2123.7 | 2239.2 | 2477.3 | 2824.9 |
| 27.5° | 2586.9 | 2571.9 | 2467.3  | 2337.8  | 2229.3  | 2213.3  | 2206.4  | 2235.3 | 2322.9 | 2563.0 | 2950.5 |
| 30°   | 2935.5 | 2921.6 | 2809.0  | 2639.7  | 2489.3  | 2463.4  | 2397.6  | 2382.7 | 2447.4 | 2679.5 | 3124.8 |
| 32.5° | 3318.0 | 3309.0 | 3174.6  | 2969.4  | 2768.2  | 2738.3  | 2627.7  | 2587.9 | 2638.7 | 2855.8 | 3367.8 |
| 35°   | 3638.8 | 3630.8 | 3519.2  | 3308.1  | 3062.0  | 3025.2  | 2912.6  | 2867.8 | 2893.7 | 3081.9 | 3685.6 |
| 37.5° | 3928.6 | 3924.6 | 3829.0  | 3662.7  | 3408.7  | 3363.8  | 3237.3  | 3222.4 | 3217.4 | 3379.8 | 4071.1 |
| 40°   | 4197.6 | 4187.6 | 4088.0  | 4000.3  | 3812.1  | 3771.2  | 3659.7  | 3646.7 | 3608.9 | 3746.3 | 4507.4 |
| 42.5° | 4495.4 | 4469.5 | 4325.1  | 4284.2  | 4233.4  | 4199.6  | 4132.8  | 4134.8 | 4051.1 | 4159.7 | 4969.5 |
| 45°   | 4738.5 | 4723.5 | 4575.1  | 4551.2  | 4606.0  | 4592.0  | 4649.8  | 4664.7 | 4502.4 | 4593.0 | 5449.7 |
| 47.5° | 4999.4 | 4985.5 | 4860.0  | 4843.0  | 4991.5  | 4995.4  | 5199.6  | 5204.6 | 4942.7 | 5043.3 | 5930.8 |
| 50°   | 5321.2 | 5301.2 | 5176.7  | 5197.7  | 5364.0  | 5378.9  | 5752.5  | 5718.6 | 5348.1 | 5500.5 | 6407.9 |
| 52.5° | 5533.3 | 5545.3 | 5518.4  | 5552.3  | 5779.4  | 5793.3  | 6296.4  | 6209.7 | 5749.5 | 5951.7 | 6876.1 |
| 55°   | 5689.7 | 5713.6 | 5797.3  | 5875.0  | 6217.7  | 6231.6  | 6809.3  | 6676.9 | 6082.2 | 6370.1 | 7316.4 |
| 57.5° | 5890.9 | 5857.1 | 6013.5  | 6164.9  | 6634.0  | 6670.9  | 7308.4  | 7127.1 | 6377.0 | 6730.7 | 7618.2 |
| 60°   | 6179.8 | 6155.9 | 6277.4  | 6501.6  | 7100.2  | 7159.0  | 7836.3  | 7532.5 | 6593.2 | 7016.5 | 7677.0 |
| 62.5° | 6765.5 | 6705.8 | 6724.7  | 6922.9  | 7687.9  | 7765.6  | 8432.0  | 7886.1 | 6700.8 | 7128.1 | 7362.2 |
| 65°   | 7641.1 | 7538.5 | 7442.9  | 7580.3  | 8515.7  | 8592.4  | 9104.4  | 8164.0 | 6660.9 | 6911.9 | 6526.5 |
| 67.5° | 8743.8 | 8642.2 | 8524.6  | 8654.1  | 9734.9  | 9795.7  | 9934.1  | 8320.4 | 6347.2 | 6079.2 | 5049.2 |
| 70°   | 9653.2 | 9615.4 | 9755.8  | 10288.7 | 11682.3 | 11684.3 | 10998.0 | 8190.9 | 5487.5 | 4310.1 | 2921.6 |
| 72.5° | 9532.7 | 9509.8 | 10249.9 | 11897.4 | 14136.7 | 14083.9 | 12005.0 | 7210.8 | 3696.5 | 1944.4 | 1094.7 |
| 75°   | 7820.4 | 7968.8 | 9115.3  | 11868.5 | 15018.2 | 15011.2 | 11388.4 | 4584.1 | 1529.0 | 805.8  | 565.8  |
| 77.5° | 4193.6 | 4428.7 | 5917.8  | 8762.7  | 11724.1 | 11900.4 | 8006.7  | 1603.7 | 656.4  | 516.0  | 391.5  |
| 80°   | 1367.6 | 1572.8 | 2358.8  | 4461.5  | 7618.2  | 7585.3  | 3431.6  | 629.5  | 449.2  | 365.6  | 270.9  |
| 82.5° | 580.7  | 604.6  | 1053.9  | 2106.8  | 3909.7  | 3848.9  | 1092.7  | 361.6  | 315.8  | 250.0  | 167.3  |
| 85°   | 227.1  | 254.0  | 465.2   | 974.2   | 1693.4  | 1656.5  | 394.5   | 179.3  | 202.2  | 163.4  | 99.6   |
| 87.5° | 74.7   | 90.6   | 166.3   | 333.7   | 526.9   | 508.0   | 96.6    | 61.8   | 87.7   | 74.7   | 35.9   |
| 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°    | 2455.4 | 2455.4 | 2455.4 | 2455.4 | 2455.4 | 2455.4 | 2455.4 | 2455.4 | 2455.4 | 2455.4 | 2455.4 |
| 2.5°  | 2476.3 | 2492.2 | 2511.2 | 2539.1 | 2563.0 | 2582.9 | 2603.8 | 2616.8 | 2621.7 | 2636.7 | 2635.7 |
| 5°    | 2494.2 | 2529.1 | 2575.9 | 2621.7 | 2666.6 | 2693.5 | 2717.4 | 2729.3 | 2740.3 | 2748.2 | 2750.2 |
| 7.5°  | 2524.1 | 2568.9 | 2642.7 | 2702.4 | 2740.3 | 2762.2 | 2778.1 | 2774.1 | 2778.1 | 2780.1 | 2783.1 |
| 10°   | 2550.0 | 2612.8 | 2700.4 | 2757.2 | 2786.1 | 2787.1 | 2783.1 | 2769.2 | 2762.2 | 2763.2 | 2765.2 |
| 12.5° | 2580.9 | 2650.6 | 2745.3 | 2793.1 | 2801.0 | 2779.1 | 2762.2 | 2738.3 | 2729.3 | 2725.3 | 2723.3 |
| 15°   | 2622.7 | 2702.4 | 2794.1 | 2812.0 | 2792.1 | 2764.2 | 2735.3 | 2696.4 | 2676.5 | 2660.6 | 2665.6 |
| 17.5° | 2673.5 | 2761.2 | 2831.9 | 2819.0 | 2776.1 | 2730.3 | 2683.5 | 2624.7 | 2583.9 | 2567.0 | 2567.9 |
| 20°   | 2744.3 | 2823.0 | 2860.8 | 2804.0 | 2739.3 | 2669.6 | 2589.9 | 2518.1 | 2480.3 | 2463.4 | 2461.4 |
| 22.5° | 2829.9 | 2905.6 | 2888.7 | 2778.1 | 2686.5 | 2574.9 | 2475.3 | 2422.5 | 2403.6 | 2391.6 | 2393.6 |
| 25°   | 2932.5 | 2997.3 | 2908.6 | 2740.3 | 2599.8 | 2449.4 | 2372.7 | 2355.8 | 2346.8 | 2337.8 | 2337.8 |
| 27.5° | 3066.0 | 3100.9 | 2923.6 | 2684.5 | 2464.4 | 2315.9 | 2288.0 | 2291.0 | 2288.0 | 2273.1 | 2276.1 |
| 30°   | 3242.3 | 3235.3 | 2937.5 | 2593.8 | 2309.0 | 2195.4 | 2197.4 | 2210.3 | 2212.3 | 2202.4 | 2207.4 |
| 32.5° | 3474.4 | 3403.7 | 2944.5 | 2476.3 | 2160.5 | 2089.8 | 2091.8 | 2105.8 | 2115.7 | 2098.8 | 2106.8 |
| 35°   | 3755.3 | 3599.9 | 2933.5 | 2328.9 | 2046.0 | 1989.2 | 1974.3 | 1978.3 | 1981.2 | 1965.3 | 1976.3 |
| 37.5° | 4083.0 | 3820.0 | 2884.7 | 2165.5 | 1951.4 | 1890.6 | 1858.7 | 1831.8 | 1815.9 | 1801.0 | 1810.9 |
| 40°   | 4442.6 | 4060.1 | 2795.1 | 2006.1 | 1845.8 | 1786.0 | 1738.2 | 1687.4 | 1633.6 | 1613.7 | 1622.6 |
| 42.5° | 4819.1 | 4307.1 | 2686.5 | 1853.7 | 1724.3 | 1675.4 | 1624.6 | 1550.9 | 1470.2 | 1429.4 | 1434.4 |
| 45°   | 5209.6 | 4560.2 | 2579.9 | 1703.3 | 1599.7 | 1578.8 | 1520.1 | 1431.4 | 1343.7 | 1291.9 | 1288.0 |
| 47.5° | 5592.1 | 4799.2 | 2423.5 | 1551.9 | 1483.2 | 1506.1 | 1460.3 | 1378.6 | 1281.0 | 1199.3 | 1190.3 |
| 50°   | 5957.7 | 5023.3 | 2167.5 | 1398.5 | 1388.6 | 1484.2 | 1440.4 | 1322.8 | 1211.3 | 1106.7 | 1097.7 |
| 52.5° | 6320.3 | 5204.6 | 1839.8 | 1259.1 | 1337.8 | 1478.2 | 1414.5 | 1285.0 | 1148.5 | 1038.9 | 1027.0 |
| 55°   | 6628.1 | 5298.3 | 1524.0 | 1139.5 | 1264.1 | 1427.4 | 1383.6 | 1240.1 | 1059.9 | 943.3  | 933.3  |
| 57.5° | 6803.4 | 5222.6 | 1261.1 | 1022.0 | 1162.4 | 1343.7 | 1330.8 | 1144.5 | 954.3  | 864.6  | 852.7  |
| 60°   | 6727.7 | 4915.8 | 1045.9 | 919.4  | 1065.8 | 1253.1 | 1239.1 | 1049.9 | 873.6  | 788.9  | 777.0  |
| 62.5° | 6310.3 | 4331.0 | 875.6  | 829.8  | 978.2  | 1160.5 | 1147.5 | 977.2  | 811.8  | 730.1  | 717.2  |
| 65°   | 5469.6 | 3523.2 | 743.1  | 755.0  | 889.5  | 1048.9 | 1067.8 | 916.4  | 763.0  | 683.3  | 670.4  |
| 67.5° | 4171.7 | 2552.0 | 639.5  | 690.3  | 802.9  | 939.3  | 994.1  | 872.6  | 722.2  | 646.5  | 634.5  |
| 70°   | 2377.7 | 1449.3 | 551.8  | 627.5  | 726.2  | 837.7  | 937.3  | 837.7  | 678.3  | 615.6  | 607.6  |
| 72.5° | 901.5  | 665.4  | 477.1  | 564.8  | 652.4  | 752.1  | 874.6  | 782.9  | 627.5  | 580.7  | 572.8  |
| 75°   | 481.1  | 405.4  | 401.4  | 491.1  | 567.8  | 668.4  | 795.9  | 729.1  | 589.7  | 613.6  | 633.5  |
| 77.5° | 327.7  | 286.9  | 335.7  | 420.4  | 475.1  | 575.7  | 712.2  | 647.5  | 511.0  | 509.0  | 469.2  |
| 80°   | 227.1  | 203.2  | 272.9  | 338.7  | 367.6  | 484.1  | 621.6  | 555.8  | 416.4  | 388.5  | 371.5  |
| 82.5° | 136.5  | 132.5  | 204.2  | 253.0  | 260.0  | 373.5  | 515.0  | 466.2  | 340.7  | 296.8  | 298.8  |
| 85°   | 74.7   | 78.7   | 130.5  | 148.4  | 151.4  | 261.0  | 403.4  | 360.6  | 262.0  | 220.1  | 222.1  |
| 87.5° | 20.9   | 26.9   | 47.8   | 58.8   | 72.7   | 135.5  | 240.1  | 214.2  | 131.5  | 91.6   | 91.6   |
| 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)