

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: P947347

Luminaire Tested: **GALN-SB2D-722-U-T3R**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P947347  
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-SB2D-722-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 17258 lumens  
Efficiency: N/A  
Efficacy: 116.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 147.6  
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



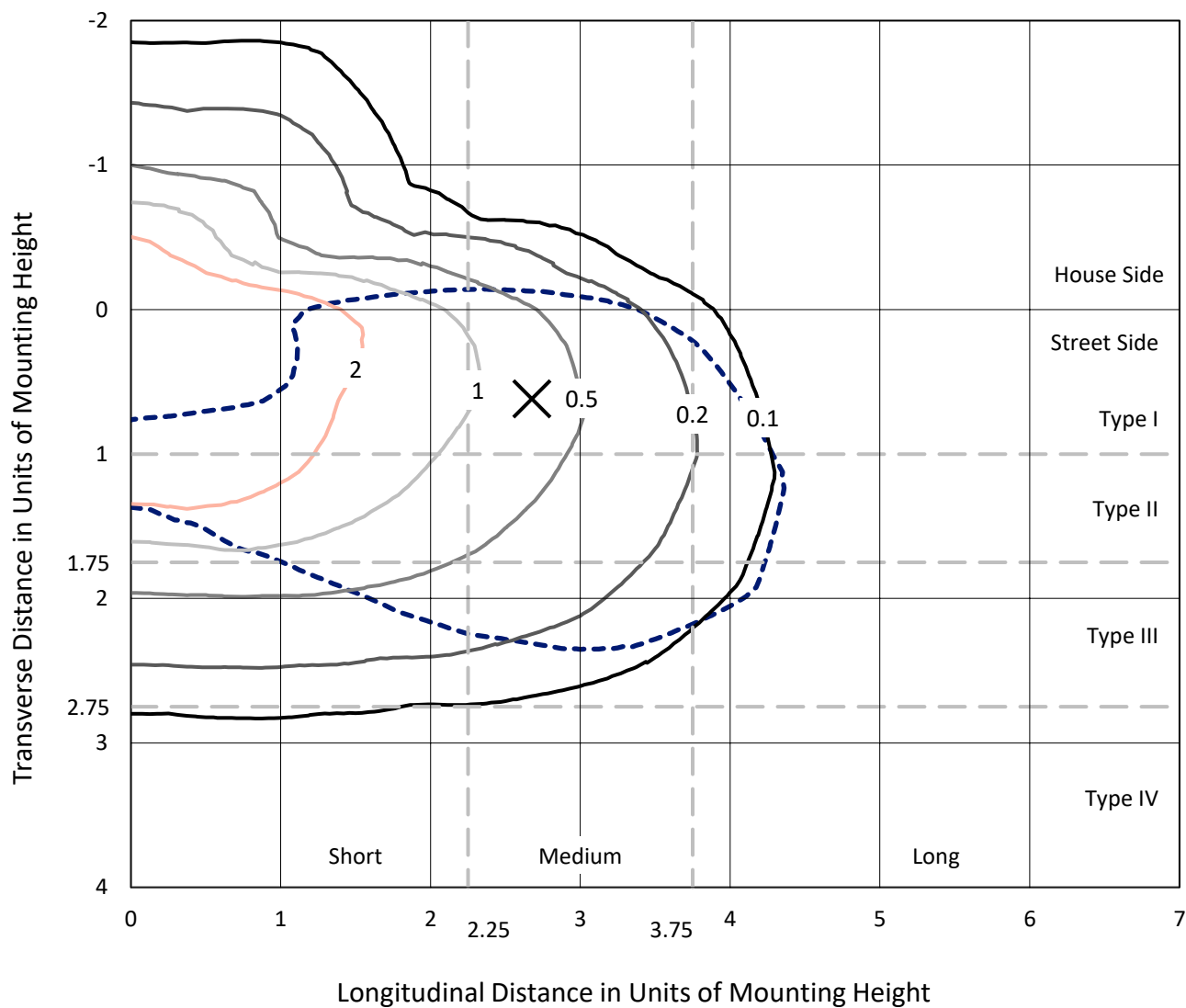
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



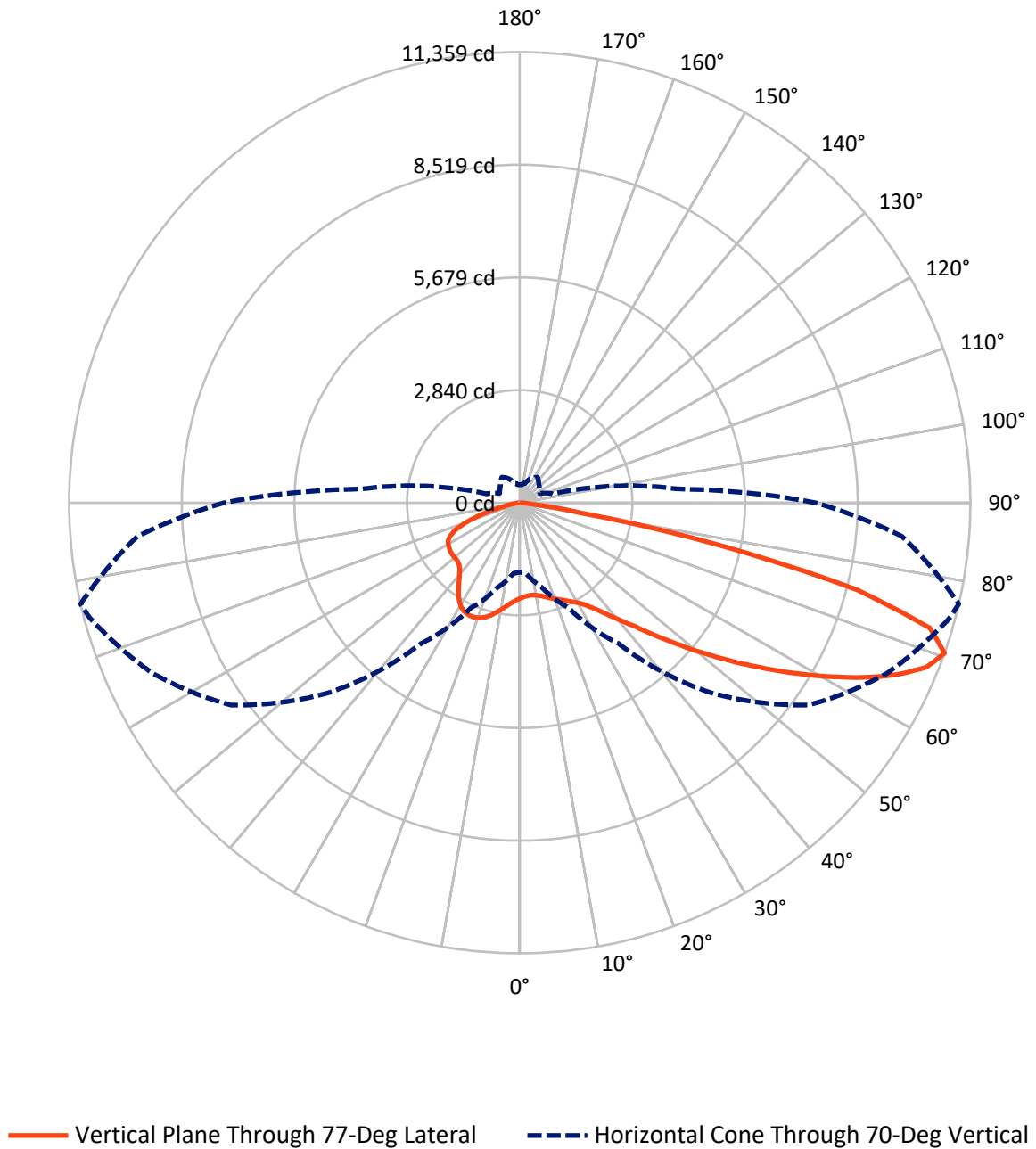
Based on 25 foot mounting height. Maximum calculated value = 4.6 fc

Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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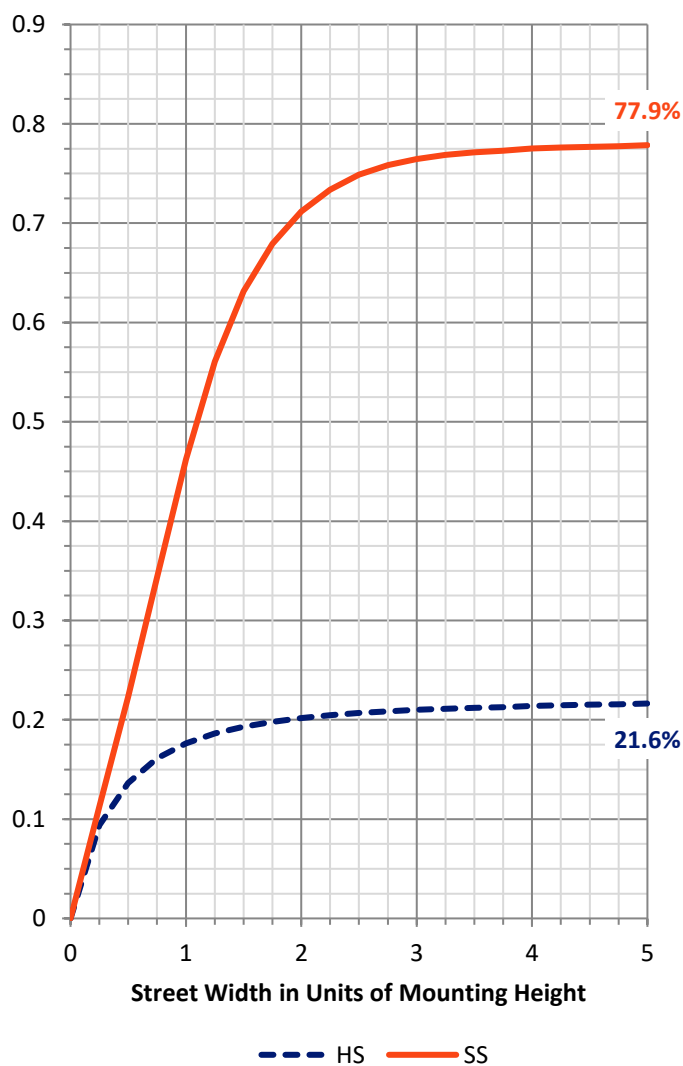
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3779.2   | 0.0    | 3779.2  |
|                    | % Fixture | 21.9     | 0.0    | 21.9    |
| <b>Street Side</b> | Lumens    | 13478.8  | 0.0    | 13478.8 |
|                    | % Fixture | 78.1     | 0.0    | 78.1    |
| <b>Total</b>       | Lumens    | 17258.0  | 0.0    | 17258.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 229.6   | 1.3       |
| 10°-20°   | 662.7   | 3.8       |
| 20°-30°   | 1133.3  | 6.6       |
| 30°-40°   | 1822.5  | 10.6      |
| 40°-50°   | 2845.5  | 16.5      |
| 50°-60°   | 3800.8  | 22.0      |
| 60°-70°   | 4051.1  | 23.5      |
| 70°-80°   | 2493.8  | 14.5      |
| 80°-90°   | 218.5   | 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°    | 17258.0 | 100.0     |
| 0°-180°   | 17258.0 | 100.0     |

**Coefficient of Utilization**



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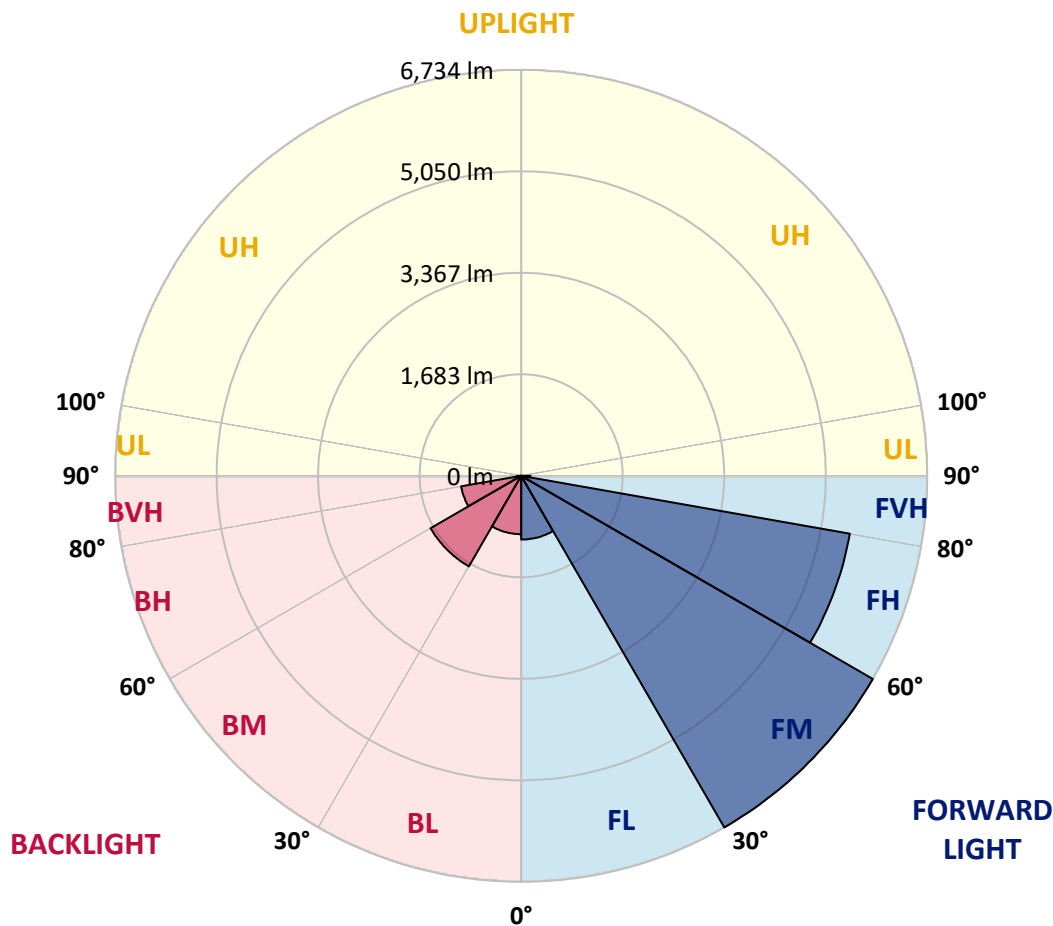
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1057.3 | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 6733.7 | 39.0      |                         |      |         |
| FH   | (60°-80°)   | 5534.9 | 32.1      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 152.8  | 0.9       |                         |      | G2/225  |
| BL   | (0°-30°)    | 968.4  | 5.6       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1735.1 | 10.1      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1010.0 | 5.9       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 65.7   | 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°    | 2407.6 | 2407.6 | 2407.6 | 2407.6 | 2407.6 | 2407.6 | 2407.6 | 2407.6  | 2407.6  | 2407.6  | 2407.6 |
| 2.5°  | 2219.4 | 2218.5 | 2230.0 | 2233.5 | 2254.7 | 2269.8 | 2298.0 | 2328.1  | 2367.0  | 2371.4  | 2395.3 |
| 5°    | 2091.2 | 2091.2 | 2104.5 | 2118.6 | 2146.0 | 2176.1 | 2219.4 | 2271.5  | 2338.7  | 2349.3  | 2408.5 |
| 7.5°  | 1982.5 | 1989.6 | 2001.1 | 2028.5 | 2060.3 | 2103.6 | 2169.9 | 2244.1  | 2332.5  | 2349.3  | 2444.8 |
| 10°   | 1895.0 | 1903.0 | 1917.1 | 1939.2 | 1986.9 | 2047.0 | 2133.7 | 2229.1  | 2347.5  | 2374.1  | 2497.8 |
| 12.5° | 1867.6 | 1875.6 | 1883.5 | 1900.3 | 1944.5 | 2015.2 | 2118.6 | 2236.2  | 2383.8  | 2410.3  | 2570.3 |
| 15°   | 1931.2 | 1941.0 | 1934.8 | 1930.4 | 1953.3 | 2017.9 | 2125.7 | 2261.8  | 2428.9  | 2466.9  | 2659.5 |
| 17.5° | 2078.0 | 2081.5 | 2067.4 | 2025.8 | 2022.3 | 2056.8 | 2159.3 | 2297.2  | 2485.4  | 2527.0  | 2749.7 |
| 20°   | 2314.8 | 2308.7 | 2279.5 | 2197.3 | 2150.4 | 2143.4 | 2216.7 | 2350.2  | 2543.8  | 2588.0  | 2846.9 |
| 22.5° | 2636.6 | 2629.5 | 2571.2 | 2441.2 | 2336.9 | 2268.0 | 2299.8 | 2419.1  | 2609.2  | 2658.7  | 2941.5 |
| 25°   | 3037.8 | 3028.1 | 2942.4 | 2765.6 | 2603.9 | 2433.3 | 2413.0 | 2510.2  | 2689.6  | 2735.6  | 3040.5 |
| 27.5° | 3506.3 | 3498.3 | 3405.5 | 3172.2 | 2938.9 | 2659.5 | 2553.5 | 2617.1  | 2773.6  | 2825.7  | 3151.9 |
| 30°   | 4010.1 | 4033.1 | 3868.7 | 3617.7 | 3322.4 | 2954.8 | 2742.6 | 2748.8  | 2882.3  | 2929.1  | 3287.1 |
| 32.5° | 4602.3 | 4642.1 | 4444.1 | 4125.9 | 3722.8 | 3275.6 | 2981.3 | 2932.7  | 3040.5  | 3079.4  | 3457.7 |
| 35°   | 5189.2 | 5234.2 | 5069.9 | 4718.1 | 4254.0 | 3653.9 | 3230.5 | 3143.9  | 3250.9  | 3293.3  | 3683.9 |
| 37.5° | 5696.5 | 5756.6 | 5671.8 | 5365.9 | 4822.4 | 4110.0 | 3555.8 | 3392.3  | 3509.8  | 3562.9  | 3988.0 |
| 40°   | 6096.9 | 6188.8 | 6182.6 | 5991.7 | 5492.3 | 4663.3 | 3968.6 | 3699.0  | 3831.6  | 3889.0  | 4356.6 |
| 42.5° | 6422.2 | 6501.7 | 6570.7 | 6560.9 | 6191.5 | 5291.7 | 4453.8 | 4097.6  | 4198.4  | 4264.6  | 4771.1 |
| 45°   | 6646.7 | 6731.5 | 6880.0 | 7040.0 | 6864.1 | 5964.3 | 5009.7 | 4570.5  | 4662.4  | 4762.3  | 5265.2 |
| 47.5° | 6847.3 | 6943.6 | 7136.3 | 7390.0 | 7435.1 | 6639.6 | 5618.7 | 5121.1  | 5205.1  | 5308.5  | 5761.0 |
| 50°   | 6865.0 | 6948.1 | 7246.8 | 7606.5 | 7840.8 | 7288.4 | 6272.8 | 5738.9  | 5817.6  | 5928.1  | 6292.2 |
| 52.5° | 6438.1 | 6568.9 | 7090.4 | 7600.4 | 8027.3 | 7831.0 | 6922.4 | 6381.5  | 6469.9  | 6602.5  | 6842.0 |
| 55°   | 4997.4 | 5189.2 | 6631.6 | 7363.5 | 7961.0 | 8181.9 | 7540.3 | 7064.7  | 7177.9  | 7316.6  | 7395.3 |
| 57.5° | 4304.4 | 4388.4 | 5264.3 | 6932.2 | 7658.7 | 8273.0 | 8061.7 | 7755.0  | 7937.1  | 8089.1  | 7980.4 |
| 60°   | 3868.7 | 3938.5 | 4456.4 | 6261.3 | 7261.0 | 8128.9 | 8464.8 | 8398.5  | 8713.1  | 8894.3  | 8578.8 |
| 62.5° | 3402.0 | 3468.3 | 3939.4 | 5228.1 | 6751.8 | 7889.4 | 8719.3 | 8992.4  | 9508.6  | 9706.6  | 9142.7 |
| 65°   | 2938.9 | 2995.4 | 3447.1 | 4392.8 | 6104.9 | 7649.9 | 8851.0 | 9506.0  | 10244.9 | 10449.9 | 9611.1 |
| 67.5° | 2422.7 | 2469.5 | 2896.4 | 3706.0 | 5318.2 | 7321.9 | 8916.4 | 9909.9  | 10885.7 | 11061.6 | 9842.7 |
| 70°   | 1748.3 | 1784.5 | 2225.6 | 2930.9 | 4330.9 | 6758.0 | 8889.9 | 10196.3 | 11218.0 | 11358.5 | 9667.7 |
| 72.5° | 826.4  | 859.1  | 1377.1 | 1903.0 | 3059.1 | 5660.3 | 8353.4 | 9969.1  | 10880.4 | 10810.6 | 8596.5 |
| 75°   | 441.0  | 469.3  | 791.1  | 1043.8 | 1615.7 | 3880.2 | 6835.8 | 8587.6  | 9136.5  | 8797.1  | 6353.2 |
| 77.5° | 298.7  | 320.8  | 489.7  | 626.7  | 738.0  | 1842.0 | 4393.7 | 5945.8  | 5720.4  | 5160.0  | 3181.9 |
| 80°   | 236.9  | 259.9  | 401.3  | 424.3  | 357.1  | 665.6  | 1815.5 | 2752.4  | 1977.2  | 1581.2  | 905.1  |
| 82.5° | 182.1  | 207.7  | 337.6  | 307.6  | 194.5  | 273.1  | 528.6  | 870.6   | 506.5   | 385.4   | 219.2  |
| 85°   | 111.4  | 138.8  | 265.2  | 196.2  | 109.6  | 124.6  | 179.4  | 242.2   | 154.7   | 129.0   | 78.7   |
| 87.5° | 56.6   | 79.5   | 134.3  | 71.6   | 49.5   | 29.2   | 47.7   | 47.7    | 40.7    | 35.4    | 20.3   |
| 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°    | 2407.6 | 2407.6 | 2407.6 | 2407.6 | 2407.6 | 2407.6 | 2407.6 | 2407.6 | 2407.6 | 2407.6 | 2407.6 |
| 2.5°  | 2416.5 | 2434.2 | 2464.2 | 2492.5 | 2514.6 | 2535.8 | 2557.0 | 2568.5 | 2572.0 | 2586.2 | 2594.1 |
| 5°    | 2444.8 | 2477.5 | 2535.8 | 2590.6 | 2625.1 | 2646.3 | 2661.3 | 2670.2 | 2671.9 | 2676.3 | 2683.4 |
| 7.5°  | 2496.9 | 2549.1 | 2630.4 | 2685.2 | 2710.8 | 2709.0 | 2702.9 | 2680.8 | 2671.9 | 2664.0 | 2665.7 |
| 10°   | 2570.3 | 2639.2 | 2739.1 | 2777.1 | 2761.2 | 2718.8 | 2664.0 | 2599.4 | 2569.4 | 2540.2 | 2531.4 |
| 12.5° | 2661.3 | 2748.8 | 2846.9 | 2845.2 | 2766.5 | 2657.8 | 2530.5 | 2431.5 | 2368.8 | 2323.7 | 2313.1 |
| 15°   | 2771.8 | 2872.6 | 2947.7 | 2887.6 | 2715.2 | 2519.9 | 2333.4 | 2204.4 | 2147.8 | 2098.3 | 2093.0 |
| 17.5° | 2885.8 | 2993.7 | 3028.1 | 2874.3 | 2586.2 | 2315.7 | 2104.5 | 2002.8 | 1947.2 | 1920.6 | 1928.6 |
| 20°   | 2997.2 | 3104.1 | 3075.9 | 2798.3 | 2390.0 | 2084.2 | 1895.9 | 1840.2 | 1828.7 | 1834.9 | 1832.3 |
| 22.5° | 3114.7 | 3210.2 | 3085.6 | 2651.6 | 2139.8 | 1847.3 | 1743.9 | 1745.6 | 1771.3 | 1789.8 | 1794.2 |
| 25°   | 3234.9 | 3299.5 | 3059.9 | 2439.5 | 1871.1 | 1673.2 | 1647.5 | 1675.8 | 1726.2 | 1762.4 | 1772.1 |
| 27.5° | 3350.7 | 3379.0 | 3004.3 | 2177.0 | 1640.5 | 1548.5 | 1553.0 | 1611.3 | 1687.3 | 1737.7 | 1750.1 |
| 30°   | 3481.5 | 3449.7 | 2897.3 | 1881.7 | 1480.5 | 1441.6 | 1478.7 | 1546.8 | 1622.8 | 1667.9 | 1678.5 |
| 32.5° | 3629.1 | 3510.7 | 2727.6 | 1608.6 | 1367.3 | 1355.8 | 1416.8 | 1461.0 | 1494.6 | 1507.9 | 1514.9 |
| 35°   | 3813.0 | 3596.4 | 2510.2 | 1416.8 | 1265.7 | 1293.1 | 1351.4 | 1329.3 | 1316.1 | 1309.0 | 1316.1 |
| 37.5° | 4051.6 | 3712.2 | 2255.6 | 1292.2 | 1183.5 | 1248.0 | 1271.9 | 1202.9 | 1150.8 | 1125.2 | 1131.3 |
| 40°   | 4338.9 | 3881.9 | 2010.8 | 1195.9 | 1131.3 | 1209.1 | 1167.6 | 1084.5 | 1018.2 | 982.0  | 984.6  |
| 42.5° | 4658.0 | 4059.6 | 1804.9 | 1123.4 | 1102.2 | 1177.3 | 1090.7 | 991.7  | 884.7  | 873.3  | 884.7  |
| 45°   | 4993.0 | 4242.6 | 1664.3 | 1067.7 | 1088.0 | 1149.9 | 1046.5 | 886.5  | 810.5  | 857.3  | 882.1  |
| 47.5° | 5327.9 | 4410.5 | 1579.5 | 1026.2 | 1081.0 | 1119.0 | 1007.6 | 828.2  | 774.3  | 842.3  | 874.1  |
| 50°   | 5700.9 | 4560.7 | 1541.5 | 996.1  | 1073.0 | 1106.6 | 949.3  | 813.2  | 736.3  | 781.3  | 814.9  |
| 52.5° | 6071.3 | 4677.4 | 1513.2 | 966.1  | 1061.5 | 1096.9 | 921.0  | 795.5  | 690.3  | 693.0  | 711.5  |
| 55°   | 6440.7 | 4753.4 | 1482.2 | 926.3  | 1035.9 | 1075.7 | 918.3  | 776.0  | 655.8  | 643.5  | 652.3  |
| 57.5° | 6834.9 | 4796.7 | 1444.2 | 882.1  | 991.7  | 1021.7 | 915.7  | 761.0  | 645.2  | 624.9  | 627.5  |
| 60°   | 7236.2 | 4860.4 | 1394.7 | 828.2  | 932.5  | 957.2  | 909.5  | 755.7  | 639.0  | 604.6  | 607.2  |
| 62.5° | 7595.9 | 4882.5 | 1335.5 | 776.9  | 856.5  | 893.6  | 896.2  | 751.3  | 622.2  | 563.0  | 563.0  |
| 65°   | 7831.9 | 4787.0 | 1232.1 | 718.6  | 774.3  | 828.2  | 870.6  | 736.3  | 592.2  | 533.0  | 533.0  |
| 67.5° | 7822.2 | 4514.8 | 1070.4 | 643.5  | 694.7  | 755.7  | 833.5  | 710.6  | 556.0  | 495.8  | 498.5  |
| 70°   | 7458.1 | 3977.4 | 865.3  | 556.0  | 607.2  | 677.9  | 785.8  | 672.6  | 512.6  | 455.2  | 460.5  |
| 72.5° | 6396.5 | 3113.0 | 628.4  | 453.4  | 505.6  | 597.5  | 723.9  | 626.7  | 468.4  | 419.0  | 416.3  |
| 75°   | 4569.6 | 1970.1 | 426.0  | 348.2  | 393.3  | 506.5  | 647.0  | 572.7  | 427.8  | 420.7  | 396.9  |
| 77.5° | 2334.3 | 941.3  | 282.0  | 254.6  | 274.0  | 399.5  | 543.6  | 511.8  | 434.0  | 347.4  | 309.4  |
| 80°   | 759.2  | 347.4  | 177.7  | 173.2  | 182.1  | 266.0  | 420.7  | 419.8  | 328.8  | 236.0  | 208.6  |
| 82.5° | 242.2  | 149.4  | 115.8  | 111.4  | 106.9  | 167.1  | 293.4  | 332.3  | 221.9  | 149.4  | 148.5  |
| 85°   | 96.3   | 89.3   | 68.1   | 62.8   | 45.1   | 78.7   | 153.8  | 221.0  | 165.3  | 107.8  | 110.5  |
| 87.5° | 35.4   | 35.4   | 18.6   | 13.3   | 9.7    | 26.5   | 41.5   | 66.3   | 94.6   | 55.7   | 54.8   |
| 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)