

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: P949491

Luminaire Tested: **GALN-SB4B-722-U-T4W**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P949491  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)  
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-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 18607 lumens  
Efficiency: N/A  
Efficacy: 126.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
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



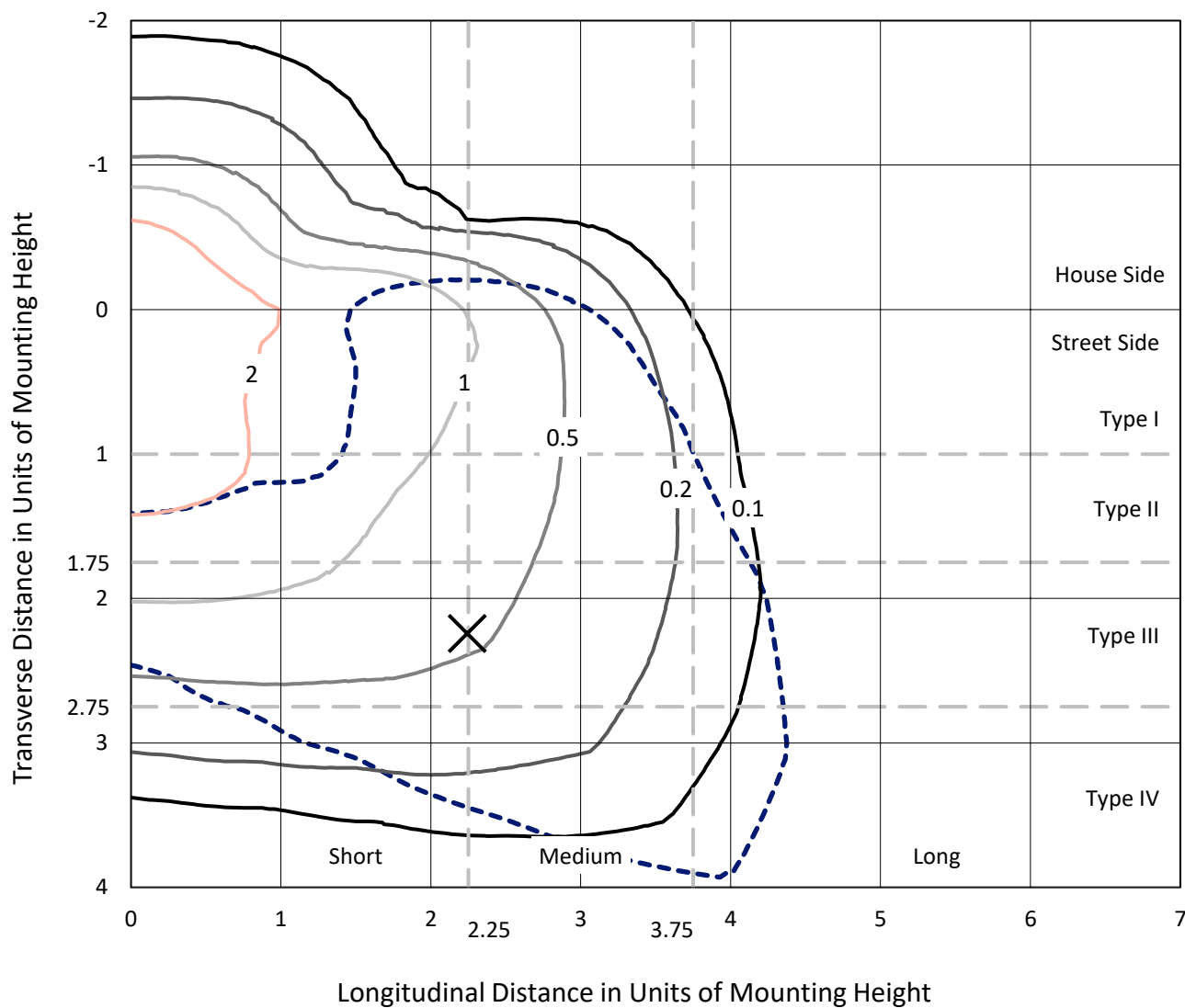
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

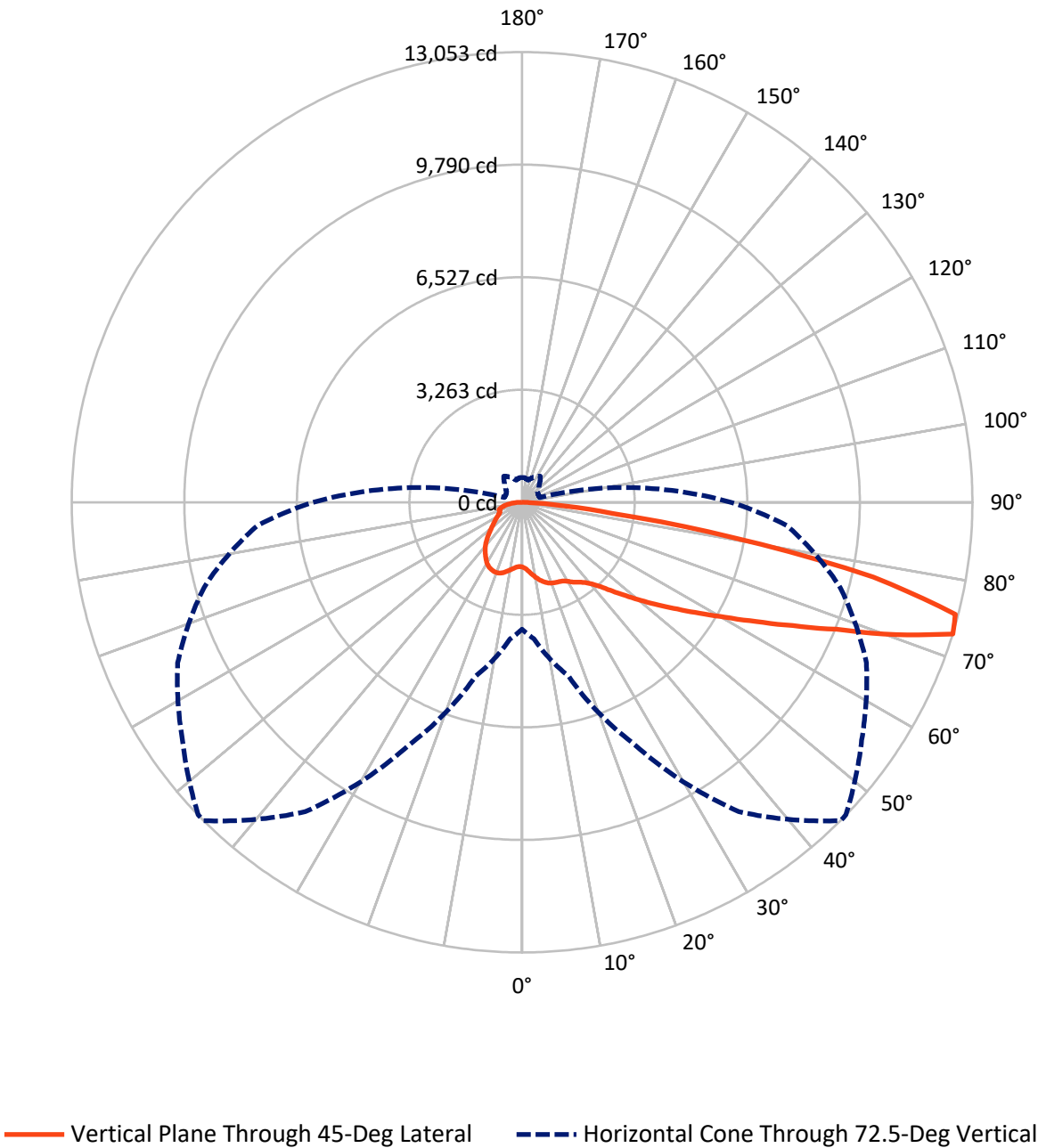


Based on 25 foot mounting height. Maximum calculated value = 3.7 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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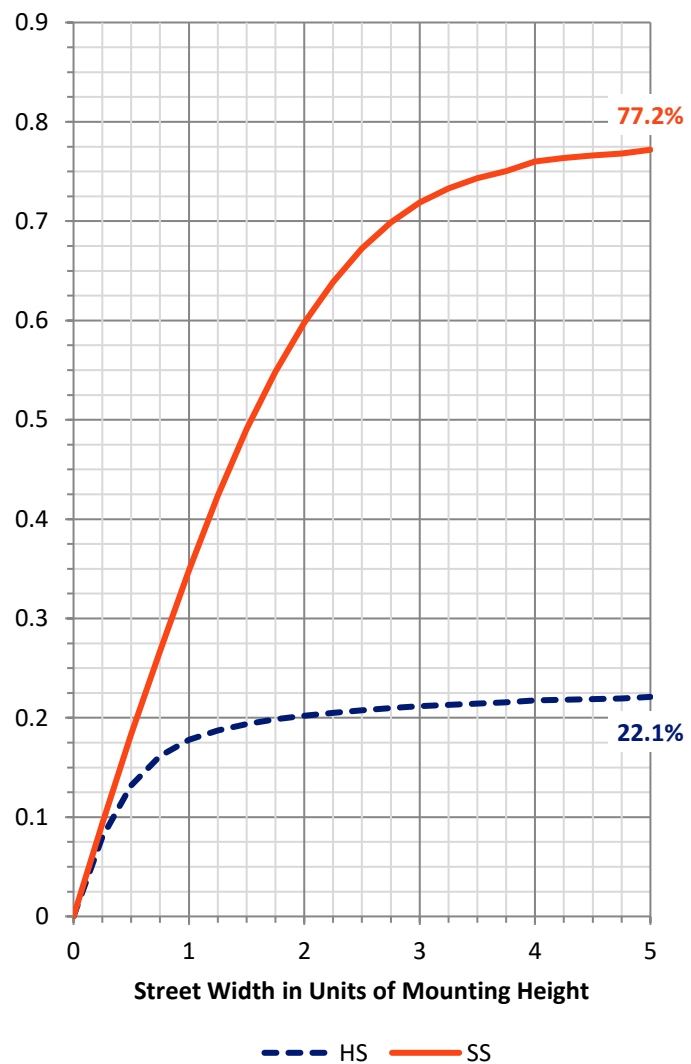
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4206.4   | 0.0    | 4206.4  |
|                    | % Fixture | 22.6     | 0.0    | 22.6    |
| <b>Street Side</b> | Lumens    | 14400.6  | 0.0    | 14400.6 |
|                    | % Fixture | 77.4     | 0.0    | 77.4    |
| <b>Total</b>       | Lumens    | 18607.0  | 0.0    | 18607.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 191.0   | 1.0       |
| 10°-20°   | 637.0   | 3.4       |
| 20°-30°   | 1108.1  | 6.0       |
| 30°-40°   | 1588.5  | 8.5       |
| 40°-50°   | 2236.7  | 12.0      |
| 50°-60°   | 3425.9  | 18.4      |
| 60°-70°   | 4963.0  | 26.7      |
| 70°-80°   | 3963.2  | 21.3      |
| 80°-90°   | 493.6   | 2.7       |
| 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°    | 18607.0 | 100.0     |
| 0°-180°   | 18607.0 | 100.0     |

**Coefficient of Utilization**



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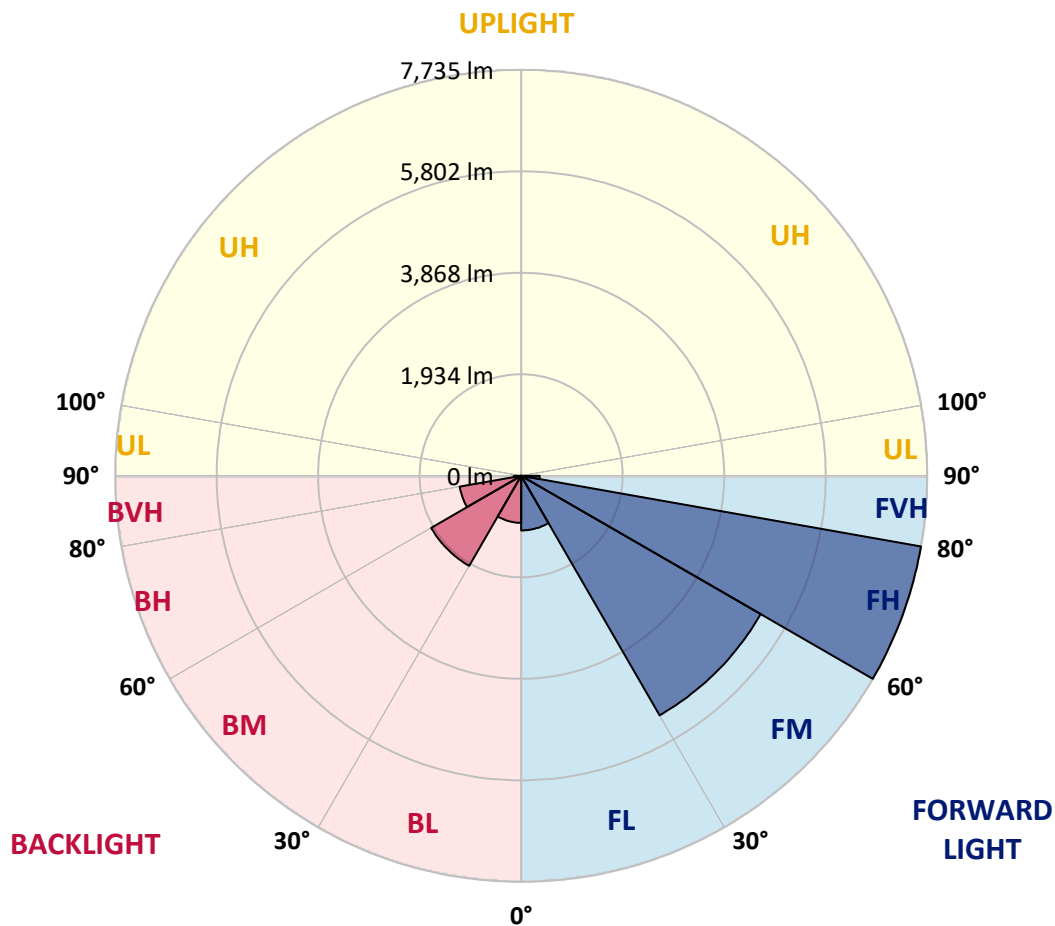
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1040.5 | 5.6       |                         |      |          |
| FM   | (30°-60°)   | 5270.5 | 28.3      |                         |      |          |
| FH   | (60°-80°)   | 7735.5 | 41.6      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 354.1  | 1.9       |                         |      | G3/500   |
| BL   | (0°-30°)    | 895.6  | 4.8       | B2/1000                 |      |          |
| BM   | (30°-60°)   | 1980.6 | 10.6      | B2/2500                 |      |          |
| BH   | (60°-80°)   | 1190.7 | 6.4       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 139.5  | 0.7       |                         |      | G2/225   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 45°     | 46°     | 55°     | 65°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 1877.1 | 1877.1 | 1877.1 | 1877.1 | 1877.1  | 1877.1  | 1877.1  | 1877.1  | 1877.1  | 1877.1  | 1877.1  |
| 2.5°  | 1950.6 | 1963.3 | 1951.6 | 1940.8 | 1935.9  | 1923.2  | 1922.2  | 1914.3  | 1909.4  | 1895.7  | 1891.8  |
| 5°    | 2086.8 | 2103.5 | 2083.9 | 2062.3 | 2042.7  | 2011.4  | 2007.5  | 1984.9  | 1959.4  | 1930.0  | 1913.4  |
| 7.5°  | 2240.7 | 2255.4 | 2232.9 | 2200.6 | 2166.2  | 2114.3  | 2113.3  | 2072.1  | 2032.0  | 1982.0  | 1953.5  |
| 10°   | 2375.0 | 2394.6 | 2364.2 | 2320.1 | 2277.0  | 2218.2  | 2211.3  | 2164.3  | 2113.3  | 2048.6  | 2005.5  |
| 12.5° | 2493.6 | 2507.4 | 2477.9 | 2424.0 | 2374.0  | 2315.2  | 2306.4  | 2254.5  | 2197.6  | 2124.1  | 2069.2  |
| 15°   | 2587.7 | 2605.4 | 2566.2 | 2508.3 | 2455.4  | 2397.6  | 2389.7  | 2342.7  | 2285.8  | 2208.4  | 2137.8  |
| 17.5° | 2649.5 | 2664.2 | 2624.0 | 2559.3 | 2508.3  | 2460.3  | 2454.4  | 2415.2  | 2365.2  | 2286.8  | 2211.3  |
| 20°   | 2673.0 | 2688.7 | 2646.5 | 2580.9 | 2533.8  | 2496.6  | 2493.6  | 2465.2  | 2430.9  | 2359.3  | 2282.9  |
| 22.5° | 2696.5 | 2711.2 | 2656.3 | 2587.7 | 2546.6  | 2523.0  | 2522.1  | 2503.4  | 2489.7  | 2430.9  | 2356.4  |
| 25°   | 2791.6 | 2795.5 | 2722.0 | 2623.0 | 2564.2  | 2543.6  | 2542.6  | 2541.7  | 2547.5  | 2501.5  | 2435.8  |
| 27.5° | 2873.9 | 2873.0 | 2810.2 | 2717.1 | 2626.0  | 2582.8  | 2581.8  | 2591.7  | 2610.3  | 2572.0  | 2518.1  |
| 30°   | 2994.5 | 2983.7 | 2909.2 | 2812.2 | 2728.9  | 2662.2  | 2656.3  | 2647.5  | 2662.2  | 2631.8  | 2600.5  |
| 32.5° | 3250.3 | 3216.0 | 3095.5 | 2923.0 | 2814.2  | 2763.2  | 2755.3  | 2700.5  | 2706.3  | 2687.7  | 2672.0  |
| 35°   | 3616.9 | 3571.9 | 3411.1 | 3132.7 | 2920.0  | 2847.5  | 2843.6  | 2774.0  | 2762.2  | 2745.5  | 2751.4  |
| 37.5° | 4053.1 | 3997.3 | 3810.0 | 3436.6 | 3102.3  | 2945.5  | 2939.6  | 2876.9  | 2828.9  | 2811.2  | 2844.5  |
| 40°   | 4491.3 | 4420.7 | 4265.8 | 3807.1 | 3370.9  | 3109.2  | 3090.6  | 2995.5  | 2940.6  | 2911.2  | 2981.8  |
| 42.5° | 4916.7 | 4857.9 | 4725.5 | 4222.7 | 3702.2  | 3348.4  | 3307.2  | 3144.5  | 3103.3  | 3075.9  | 3203.3  |
| 45°   | 5293.1 | 5240.2 | 5143.1 | 4666.7 | 4090.4  | 3673.8  | 3633.6  | 3368.0  | 3355.2  | 3355.2  | 3539.5  |
| 47.5° | 5598.9 | 5587.1 | 5484.2 | 5119.6 | 4548.1  | 4044.3  | 3974.7  | 3678.7  | 3713.0  | 3765.9  | 4016.9  |
| 50°   | 5938.1 | 5905.7 | 5795.9 | 5565.6 | 5086.3  | 4468.7  | 4411.9  | 4060.0  | 4188.4  | 4333.5  | 4706.9  |
| 52.5° | 6249.8 | 6267.4 | 6144.9 | 6030.2 | 5694.0  | 4942.2  | 4842.2  | 4509.9  | 4787.3  | 5027.4  | 5515.6  |
| 55°   | 6570.3 | 6571.3 | 6537.0 | 6521.3 | 6331.1  | 5465.6  | 5355.8  | 5051.0  | 5492.1  | 5790.0  | 6458.5  |
| 57.5° | 6871.2 | 6873.2 | 6924.1 | 7062.3 | 7070.2  | 6069.4  | 5944.9  | 5715.5  | 6275.2  | 6579.1  | 7430.9  |
| 60°   | 7139.8 | 7153.5 | 7292.7 | 7616.2 | 7720.1  | 6761.4  | 6643.8  | 6500.7  | 7084.9  | 7390.7  | 8453.2  |
| 62.5° | 7230.0 | 7279.9 | 7589.7 | 8049.4 | 8362.1  | 7610.3  | 7494.6  | 7409.3  | 7935.7  | 8220.0  | 9308.0  |
| 65°   | 7077.0 | 7191.7 | 7790.6 | 8407.2 | 9022.7  | 8618.9  | 8504.2  | 8411.1  | 8819.8  | 9087.4  | 10009.8 |
| 67.5° | 6701.6 | 6849.6 | 7778.9 | 8782.6 | 9824.6  | 9832.4  | 9725.6  | 9507.0  | 9767.7  | 9870.6  | 10238.2 |
| 70°   | 5712.6 | 5934.1 | 7093.7 | 8922.8 | 10745.0 | 11491.9 | 11389.0 | 10826.3 | 10713.6 | 10215.7 | 9595.2  |
| 72.5° | 3680.7 | 3978.6 | 5223.5 | 7769.1 | 10949.8 | 13053.3 | 13047.5 | 12017.3 | 11012.6 | 9545.2  | 7695.6  |
| 75°   | 1342.9 | 1525.2 | 2427.0 | 4876.5 | 9191.3  | 12973.9 | 13012.2 | 11813.4 | 10052.9 | 7373.1  | 4794.2  |
| 77.5° | 489.1  | 535.2  | 792.0  | 1874.1 | 5652.8  | 10409.7 | 10489.1 | 9444.2  | 7155.5  | 3700.3  | 1899.6  |
| 80°   | 256.8  | 282.3  | 405.8  | 727.3  | 2422.1  | 6182.1  | 6306.6  | 5612.6  | 3363.1  | 1114.5  | 569.5   |
| 82.5° | 142.1  | 153.9  | 227.4  | 395.0  | 1091.0  | 2643.6  | 2718.1  | 2217.2  | 1183.1  | 472.5   | 235.2   |
| 85°   | 76.5   | 81.4   | 106.8  | 215.6  | 533.2   | 916.5   | 937.1   | 662.6   | 471.5   | 277.4   | 113.7   |
| 87.5° | 22.5   | 27.4   | 35.3   | 68.6   | 208.8   | 205.8   | 210.7   | 131.3   | 186.2   | 140.2   | 37.2    |
| 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°    | 1877.1 | 1877.1 | 1877.1 | 1877.1 | 1877.1 | 1877.1 | 1877.1 | 1877.1 | 1877.1 | 1877.1 | 1877.1 |
| 2.5°  | 1885.9 | 1883.0 | 1872.2 | 1867.3 | 1861.4 | 1860.4 | 1865.3 | 1866.3 | 1867.3 | 1868.3 | 1872.2 |
| 5°    | 1903.5 | 1893.7 | 1883.9 | 1878.1 | 1880.0 | 1881.0 | 1890.8 | 1897.7 | 1902.6 | 1906.5 | 1908.5 |
| 7.5°  | 1937.9 | 1930.0 | 1913.4 | 1912.4 | 1915.3 | 1924.1 | 1936.9 | 1952.6 | 1961.4 | 1968.2 | 1970.2 |
| 10°   | 1988.8 | 1974.1 | 1954.5 | 1957.5 | 1963.3 | 1976.1 | 2002.5 | 2015.3 | 2030.0 | 2042.7 | 2039.8 |
| 12.5° | 2040.8 | 2028.0 | 2005.5 | 2007.5 | 2017.3 | 2039.8 | 2065.3 | 2081.0 | 2090.8 | 2100.6 | 2104.5 |
| 15°   | 2108.4 | 2085.9 | 2061.4 | 2061.4 | 2079.0 | 2103.5 | 2115.3 | 2128.0 | 2133.9 | 2144.7 | 2148.6 |
| 17.5° | 2178.0 | 2148.6 | 2116.3 | 2114.3 | 2135.9 | 2147.6 | 2154.5 | 2156.4 | 2158.4 | 2170.2 | 2174.1 |
| 20°   | 2247.6 | 2215.3 | 2169.2 | 2165.3 | 2170.2 | 2168.2 | 2167.2 | 2165.3 | 2168.2 | 2182.9 | 2188.8 |
| 22.5° | 2316.2 | 2279.0 | 2215.3 | 2197.6 | 2183.9 | 2165.3 | 2164.3 | 2163.3 | 2165.3 | 2180.0 | 2189.8 |
| 25°   | 2396.6 | 2351.5 | 2266.2 | 2213.3 | 2167.2 | 2141.7 | 2144.7 | 2145.7 | 2147.6 | 2159.4 | 2175.1 |
| 27.5° | 2483.8 | 2433.8 | 2313.3 | 2208.4 | 2125.1 | 2107.4 | 2102.5 | 2105.5 | 2112.3 | 2131.0 | 2149.6 |
| 30°   | 2571.1 | 2512.3 | 2356.4 | 2188.8 | 2072.1 | 2047.6 | 2032.0 | 2038.8 | 2060.4 | 2079.0 | 2099.6 |
| 32.5° | 2650.5 | 2591.7 | 2390.7 | 2145.7 | 2004.5 | 1966.3 | 1945.7 | 1954.5 | 1976.1 | 1982.9 | 2007.5 |
| 35°   | 2743.6 | 2676.9 | 2405.4 | 2077.0 | 1931.0 | 1872.2 | 1844.7 | 1832.0 | 1842.8 | 1835.9 | 1857.5 |
| 37.5° | 2847.5 | 2777.9 | 2403.5 | 1986.9 | 1844.7 | 1777.1 | 1738.9 | 1690.8 | 1668.3 | 1644.8 | 1659.5 |
| 40°   | 3001.4 | 2901.4 | 2379.9 | 1878.1 | 1737.9 | 1676.1 | 1607.5 | 1526.2 | 1475.2 | 1429.1 | 1432.1 |
| 42.5° | 3211.1 | 3072.9 | 2336.8 | 1758.5 | 1617.3 | 1559.5 | 1466.4 | 1371.3 | 1290.9 | 1214.5 | 1207.6 |
| 45°   | 3523.8 | 3297.4 | 2282.9 | 1631.1 | 1487.0 | 1430.1 | 1329.2 | 1222.3 | 1131.2 | 1033.1 | 1021.4 |
| 47.5° | 3974.7 | 3599.3 | 2231.9 | 1486.0 | 1349.7 | 1297.8 | 1206.6 | 1107.6 | 999.8  | 904.7  | 893.9  |
| 50°   | 4594.2 | 4032.5 | 2184.9 | 1344.8 | 1214.5 | 1175.3 | 1102.7 | 1001.8 | 893.0  | 816.5  | 811.6  |
| 52.5° | 5382.3 | 4621.6 | 2165.3 | 1208.6 | 1088.0 | 1073.3 | 1015.5 | 921.4  | 818.5  | 753.8  | 748.9  |
| 55°   | 6287.0 | 5326.4 | 2165.3 | 1078.2 | 977.3  | 982.2  | 942.0  | 854.7  | 765.5  | 707.7  | 701.8  |
| 57.5° | 7210.4 | 6040.0 | 2126.1 | 957.7  | 883.2  | 903.7  | 878.3  | 801.8  | 721.4  | 661.6  | 651.8  |
| 60°   | 8061.2 | 6637.9 | 1967.3 | 847.9  | 799.8  | 832.2  | 815.5  | 749.9  | 651.8  | 601.8  | 594.0  |
| 62.5° | 8715.0 | 6975.1 | 1661.4 | 760.6  | 731.2  | 768.5  | 759.7  | 681.2  | 639.1  | 618.5  | 611.6  |
| 65°   | 9042.4 | 6920.2 | 1270.3 | 683.2  | 673.4  | 731.2  | 712.6  | 709.7  | 676.3  | 652.8  | 645.0  |
| 67.5° | 8841.4 | 6447.8 | 921.4  | 626.3  | 640.1  | 696.9  | 768.5  | 780.2  | 718.5  | 672.4  | 664.6  |
| 70°   | 7960.2 | 5593.0 | 686.1  | 572.4  | 597.9  | 697.9  | 876.3  | 816.5  | 704.8  | 650.9  | 642.0  |
| 72.5° | 6055.7 | 4170.8 | 532.2  | 515.6  | 543.0  | 702.8  | 924.3  | 799.8  | 665.6  | 719.5  | 713.6  |
| 75°   | 3463.0 | 2289.7 | 427.4  | 446.0  | 474.4  | 656.7  | 899.8  | 756.7  | 635.2  | 660.7  | 660.7  |
| 77.5° | 1320.3 | 880.2  | 352.9  | 377.4  | 381.3  | 573.4  | 860.6  | 753.8  | 604.8  | 590.1  | 538.1  |
| 80°   | 457.8  | 344.1  | 292.1  | 299.9  | 295.0  | 509.7  | 825.3  | 655.8  | 495.0  | 443.1  | 428.3  |
| 82.5° | 187.2  | 171.5  | 231.3  | 221.5  | 209.8  | 396.0  | 666.5  | 536.2  | 404.8  | 357.8  | 353.9  |
| 85°   | 81.4   | 108.8  | 152.9  | 134.3  | 121.5  | 274.5  | 534.2  | 453.8  | 342.1  | 295.0  | 294.1  |
| 87.5° | 16.7   | 41.2   | 64.7   | 60.8   | 62.7   | 183.3  | 379.3  | 322.5  | 242.1  | 181.3  | 142.1  |
| 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)