

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: P946261

Luminaire Tested: **GALN-SB2A-722-U-AFL**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P946261  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2A-722-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 7537 lumens  
Efficiency: N/A  
Efficacy: 131.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 57.3  
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

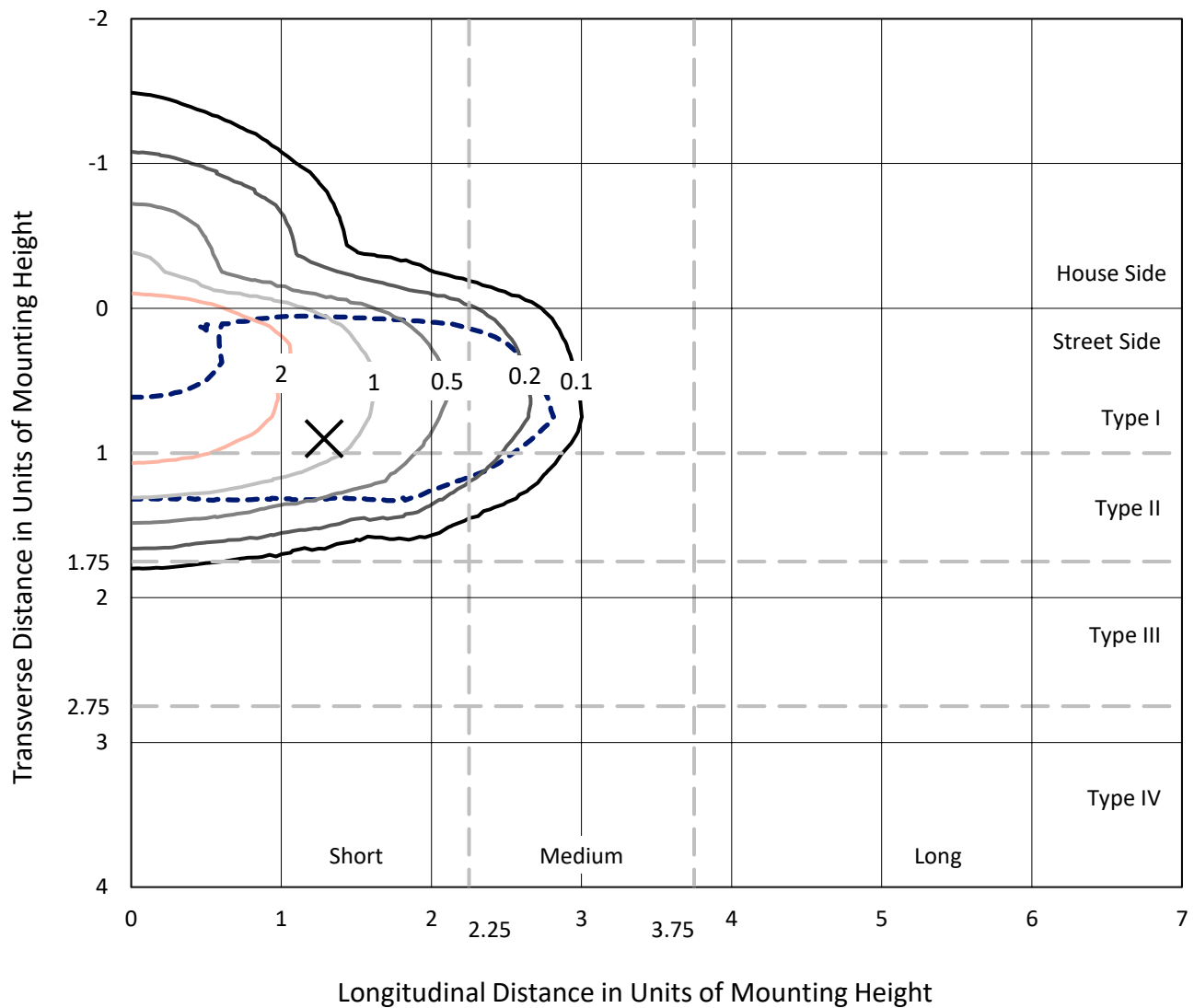


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd

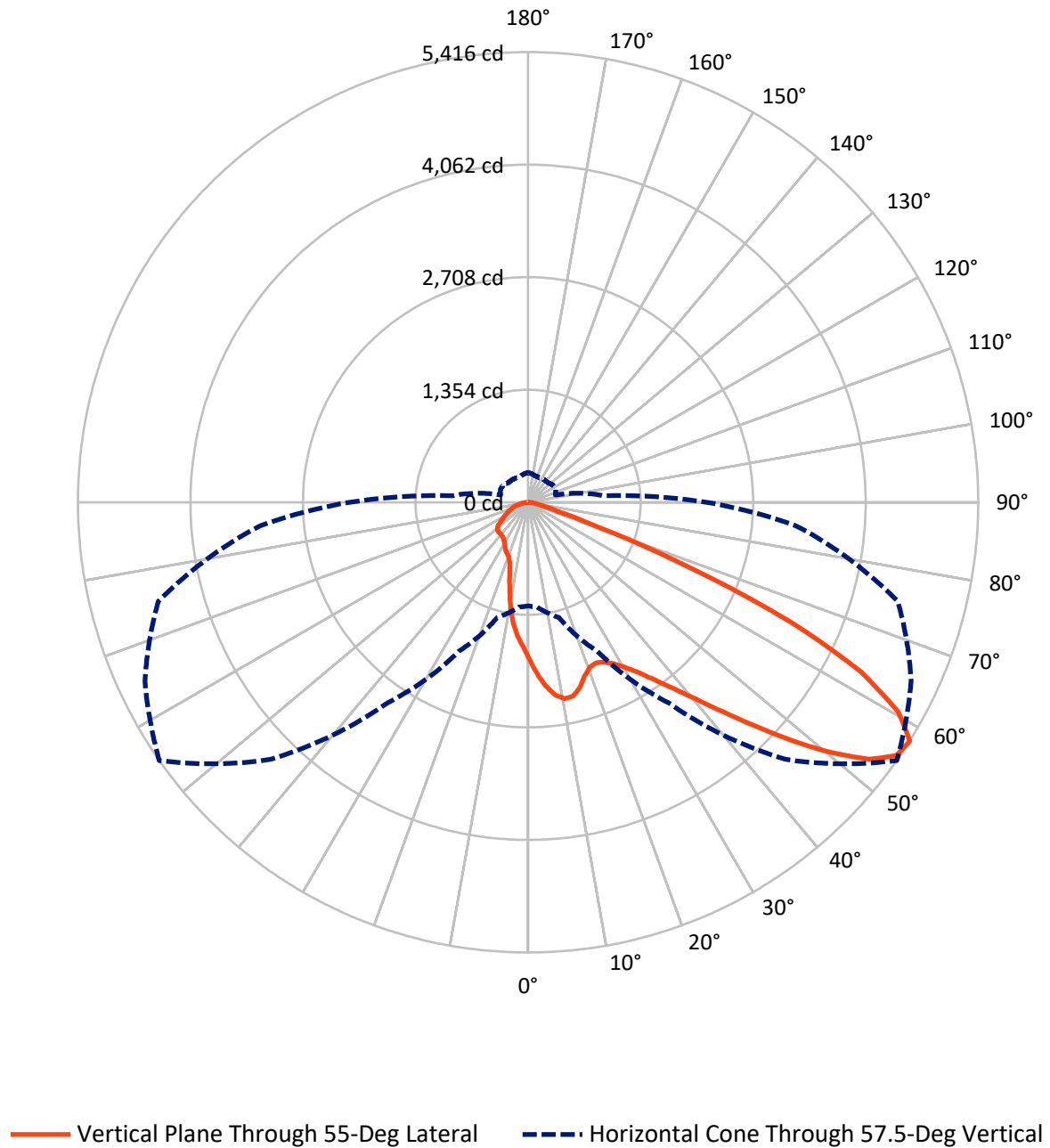


Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
Type II - Short - N/A

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## Luminous Intensity Polar Plot



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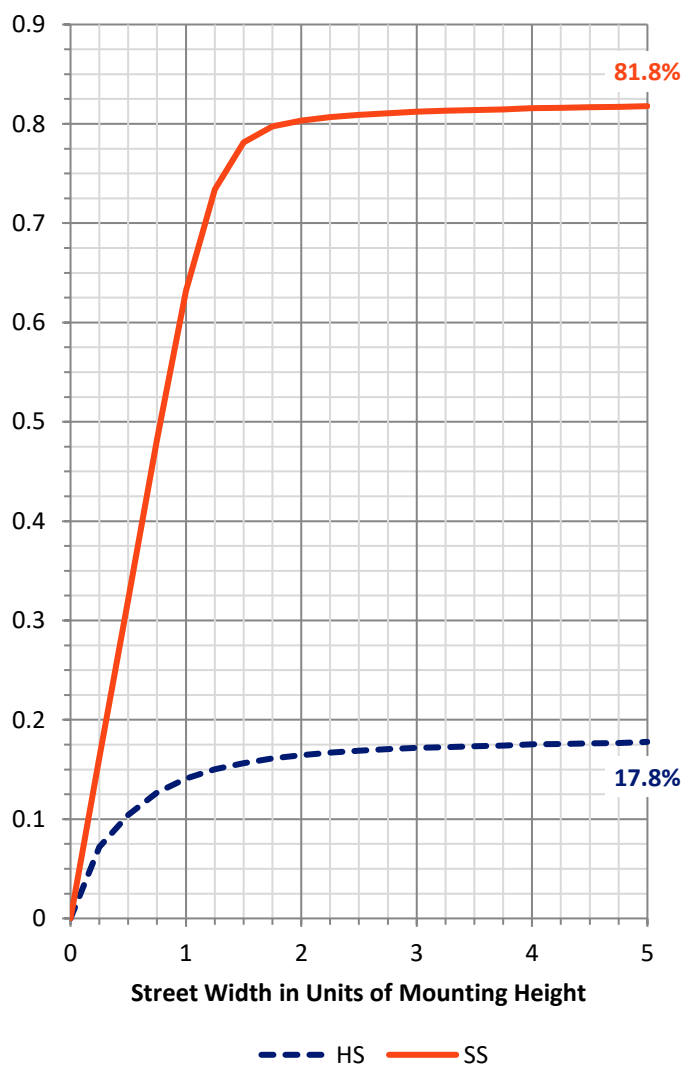
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1363.8   | 0.0    | 1363.8 |
|                    | % Fixture | 18.1     | 0.0    | 18.1   |
| <b>Street Side</b> | Lumens    | 6173.2   | 0.0    | 6173.2 |
|                    | % Fixture | 81.9     | 0.0    | 81.9   |
| <b>Total</b>       | Lumens    | 7537.0   | 0.0    | 7537.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 175.2  | 2.3       |
| 10°-20°   | 442.3  | 5.9       |
| 20°-30°   | 705.8  | 9.4       |
| 30°-40°   | 1117.5 | 14.8      |
| 40°-50°   | 1710.4 | 22.7      |
| 50°-60°   | 1832.0 | 24.3      |
| 60°-70°   | 1152.5 | 15.3      |
| 70°-80°   | 340.8  | 4.5       |
| 80°-90°   | 60.3   | 0.8       |
| 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°    | 7537.0 | 100.0     |
| 0°-180°   | 7537.0 | 100.0     |

**Coefficient of Utilization**



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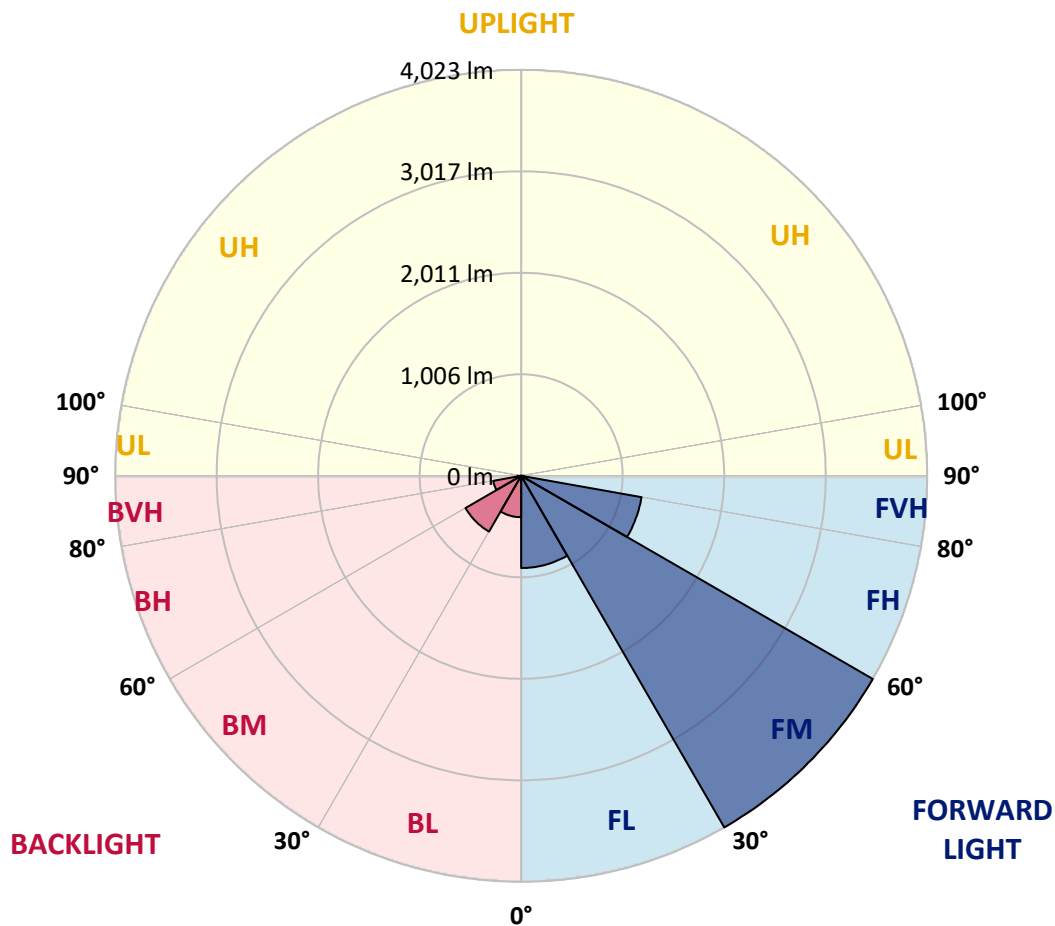
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 913.5  | 12.1      |                         |      |         |
| FM   | (30°-60°)   | 4022.6 | 53.4      |                         |      |         |
| FH   | (60°-80°)   | 1211.7 | 16.1      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 25.5   | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 409.9  | 5.4       | B1/500                  |      |         |
| BM   | (30°-60°)   | 637.4  | 8.5       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 281.7  | 3.7       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 34.8   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G1**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1888.5 | 1888.5 | 1888.5 | 1888.5 | 1888.5 | 1888.5 | 1888.5 | 1888.5 | 1888.5 | 1888.5 | 1888.5 |
| 2.5°  | 2166.7 | 2165.2 | 2173.7 | 2144.5 | 2124.6 | 2097.8 | 2062.3 | 2017.1 | 1968.4 | 1917.0 | 1894.8 |
| 5°    | 2361.9 | 2348.3 | 2357.3 | 2335.4 | 2313.6 | 2273.1 | 2220.5 | 2146.9 | 2056.8 | 1954.4 | 1899.8 |
| 7.5°  | 2331.1 | 2321.8 | 2344.8 | 2364.3 | 2380.6 | 2375.6 | 2337.0 | 2259.8 | 2143.7 | 1994.9 | 1915.8 |
| 10°   | 2083.0 | 2072.4 | 2104.8 | 2172.2 | 2271.1 | 2357.3 | 2404.0 | 2356.1 | 2232.6 | 2039.3 | 1931.4 |
| 12.5° | 1864.0 | 1858.9 | 1880.3 | 1934.9 | 2044.8 | 2210.0 | 2395.4 | 2440.2 | 2324.9 | 2091.9 | 1952.4 |
| 15°   | 1770.5 | 1764.2 | 1777.9 | 1805.5 | 1875.7 | 2029.6 | 2317.5 | 2497.9 | 2415.7 | 2152.7 | 1985.9 |
| 17.5° | 1749.8 | 1742.8 | 1748.7 | 1763.1 | 1808.3 | 1925.5 | 2199.8 | 2526.3 | 2510.4 | 2220.5 | 2014.0 |
| 20°   | 1788.0 | 1782.2 | 1782.9 | 1782.2 | 1813.7 | 1906.8 | 2118.0 | 2515.4 | 2593.0 | 2282.8 | 2041.3 |
| 22.5° | 1880.3 | 1870.6 | 1871.0 | 1850.3 | 1867.5 | 1939.6 | 2096.6 | 2486.2 | 2666.6 | 2337.4 | 2061.9 |
| 25°   | 2030.7 | 2013.2 | 2016.7 | 1964.1 | 1959.4 | 2012.8 | 2130.1 | 2463.6 | 2739.9 | 2381.0 | 2065.8 |
| 27.5° | 2236.5 | 2216.6 | 2206.1 | 2127.8 | 2090.4 | 2116.8 | 2198.3 | 2471.4 | 2809.2 | 2418.8 | 2056.1 |
| 30°   | 2493.6 | 2469.5 | 2448.0 | 2337.0 | 2269.2 | 2259.5 | 2304.3 | 2522.8 | 2891.0 | 2458.6 | 2039.3 |
| 32.5° | 2808.8 | 2780.8 | 2741.8 | 2594.5 | 2499.1 | 2448.0 | 2441.4 | 2614.4 | 2986.9 | 2509.2 | 2030.7 |
| 35°   | 3184.0 | 3147.4 | 3092.1 | 2901.6 | 2780.8 | 2676.4 | 2622.2 | 2746.5 | 3118.2 | 2585.6 | 2040.5 |
| 37.5° | 3570.6 | 3529.3 | 3478.6 | 3251.8 | 3103.4 | 2949.5 | 2842.7 | 2925.7 | 3293.1 | 2689.2 | 2066.2 |
| 40°   | 3927.1 | 3880.7 | 3833.6 | 3631.7 | 3472.4 | 3286.9 | 3112.7 | 3152.5 | 3507.0 | 2813.1 | 2109.8 |
| 42.5° | 4137.5 | 4103.2 | 4085.3 | 3976.2 | 3853.0 | 3664.8 | 3448.6 | 3421.3 | 3747.4 | 2955.7 | 2159.7 |
| 45°   | 4128.1 | 4114.1 | 4169.4 | 4214.6 | 4185.4 | 4081.0 | 3842.1 | 3718.6 | 3988.6 | 3079.2 | 2205.7 |
| 47.5° | 3907.6 | 3916.9 | 4040.4 | 4294.5 | 4406.3 | 4460.9 | 4290.2 | 4010.4 | 4198.2 | 3171.6 | 2226.3 |
| 50°   | 3307.6 | 3315.3 | 3601.3 | 4149.1 | 4463.2 | 4770.6 | 4734.8 | 4295.3 | 4360.7 | 3228.1 | 2221.7 |
| 52.5° | 2832.6 | 2837.7 | 2960.4 | 3718.2 | 4275.4 | 4926.5 | 5135.3 | 4563.7 | 4479.6 | 3243.7 | 2195.6 |
| 55°   | 2133.6 | 2151.1 | 2288.7 | 2917.1 | 3786.8 | 4802.9 | 5379.2 | 4840.4 | 4554.8 | 3245.2 | 2168.3 |
| 57.5° | 1246.4 | 1265.5 | 1435.4 | 1980.1 | 2943.3 | 4372.4 | 5416.2 | 5085.8 | 4605.8 | 3232.7 | 2151.9 |
| 60°   | 610.5  | 618.7  | 692.8  | 1040.7 | 1814.9 | 3542.9 | 5118.5 | 5204.7 | 4634.2 | 3226.1 | 2151.1 |
| 62.5° | 411.4  | 410.3  | 413.4  | 513.5  | 894.2  | 2276.2 | 4498.3 | 4996.6 | 4619.0 | 3200.8 | 2143.3 |
| 65°   | 353.8  | 349.5  | 337.8  | 360.4  | 463.3  | 1041.1 | 3475.5 | 4375.5 | 4503.3 | 3137.3 | 2090.0 |
| 67.5° | 305.9  | 306.2  | 306.6  | 299.6  | 330.8  | 480.4  | 2123.9 | 3446.7 | 4088.0 | 2836.5 | 1884.2 |
| 70°   | 253.3  | 256.8  | 258.3  | 258.3  | 269.6  | 315.2  | 906.7  | 2362.3 | 3224.6 | 2224.0 | 1517.6 |
| 72.5° | 230.7  | 223.3  | 224.0  | 220.1  | 220.1  | 240.0  | 365.1  | 1339.2 | 2031.5 | 1251.1 | 926.1  |
| 75°   | 188.2  | 192.9  | 193.6  | 190.9  | 182.0  | 183.1  | 216.6  | 561.8  | 869.3  | 519.0  | 457.8  |
| 77.5° | 162.5  | 162.5  | 164.0  | 162.1  | 155.1  | 137.1  | 144.6  | 217.8  | 295.7  | 212.7  | 228.7  |
| 80°   | 130.5  | 130.1  | 136.8  | 140.7  | 129.7  | 101.3  | 92.3   | 120.4  | 131.3  | 93.5   | 118.8  |
| 82.5° | 63.5   | 67.4   | 93.9   | 107.1  | 98.6   | 73.3   | 56.5   | 74.8   | 70.1   | 41.3   | 53.4   |
| 85°   | 37.0   | 35.1   | 42.1   | 59.6   | 56.5   | 40.5   | 27.3   | 39.0   | 36.6   | 21.0   | 21.4   |
| 87.5° | 11.7   | 10.9   | 8.6    | 20.3   | 16.4   | 11.3   | 7.4    | 11.3   | 10.1   | 4.7    | 4.7    |
| 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):**

|       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1888.5 | 1888.5 | 1888.5 | 1888.5 | 1888.5 | 1888.5 | 1888.5 | 1888.5 | 1888.5 | 1888.5 |
| 2.5°  | 1867.1 | 1821.1 | 1775.5 | 1733.8 | 1708.5 | 1692.2 | 1675.8 | 1657.5 | 1650.5 | 1639.9 |
| 5°    | 1848.4 | 1759.6 | 1680.5 | 1612.3 | 1550.3 | 1501.6 | 1452.5 | 1412.8 | 1394.9 | 1406.9 |
| 7.5°  | 1837.5 | 1708.9 | 1587.0 | 1461.9 | 1341.5 | 1245.3 | 1161.5 | 1102.6 | 1076.2 | 1082.8 |
| 10°   | 1827.7 | 1651.6 | 1465.8 | 1268.2 | 1095.2 | 976.0  | 890.3  | 845.5  | 828.7  | 832.2  |
| 12.5° | 1818.8 | 1587.3 | 1319.7 | 1059.8 | 875.9  | 797.2  | 772.6  | 773.0  | 776.1  | 778.5  |
| 15°   | 1817.2 | 1509.8 | 1156.4 | 877.4  | 757.4  | 752.4  | 778.9  | 795.6  | 804.6  | 807.3  |
| 17.5° | 1814.9 | 1417.1 | 990.0  | 753.2  | 728.6  | 762.9  | 787.4  | 798.3  | 805.4  | 805.8  |
| 20°   | 1805.5 | 1299.4 | 836.5  | 693.9  | 722.4  | 752.0  | 767.2  | 775.7  | 781.6  | 783.5  |
| 22.5° | 1776.7 | 1168.5 | 716.9  | 667.4  | 697.4  | 721.2  | 739.1  | 748.9  | 752.4  | 754.7  |
| 25°   | 1724.9 | 1022.0 | 634.3  | 642.1  | 662.8  | 692.8  | 707.2  | 709.1  | 708.0  | 711.5  |
| 27.5° | 1657.1 | 865.0  | 582.9  | 607.8  | 634.3  | 660.0  | 667.8  | 666.7  | 664.3  | 668.2  |
| 30°   | 1575.3 | 723.9  | 550.2  | 569.2  | 605.5  | 628.9  | 635.9  | 633.1  | 628.5  | 632.8  |
| 32.5° | 1488.8 | 608.6  | 523.3  | 542.4  | 581.7  | 604.7  | 611.7  | 609.0  | 605.5  | 609.0  |
| 35°   | 1408.1 | 527.9  | 498.3  | 524.4  | 563.0  | 585.6  | 594.6  | 595.0  | 595.0  | 599.2  |
| 37.5° | 1334.1 | 480.8  | 477.7  | 513.1  | 550.2  | 570.4  | 583.3  | 584.1  | 567.3  | 568.5  |
| 40°   | 1265.5 | 460.9  | 468.3  | 505.7  | 537.7  | 557.2  | 557.9  | 514.3  | 483.5  | 482.7  |
| 42.5° | 1209.4 | 457.0  | 471.1  | 505.0  | 528.7  | 529.5  | 474.6  | 440.7  | 432.1  | 432.5  |
| 45°   | 1156.8 | 455.9  | 477.3  | 505.0  | 515.5  | 457.4  | 420.4  | 411.4  | 412.2  | 415.3  |
| 47.5° | 1098.0 | 451.2  | 478.5  | 497.9  | 477.3  | 406.8  | 395.9  | 392.0  | 390.4  | 391.2  |
| 50°   | 1033.7 | 434.4  | 463.7  | 483.9  | 411.8  | 385.0  | 371.3  | 370.1  | 372.1  | 373.3  |
| 52.5° | 965.9  | 407.2  | 438.3  | 458.6  | 381.8  | 365.9  | 350.7  | 353.4  | 362.0  | 364.7  |
| 55°   | 921.5  | 375.2  | 404.8  | 407.9  | 360.8  | 347.9  | 335.1  | 341.3  | 357.3  | 362.4  |
| 57.5° | 909.8  | 341.3  | 366.6  | 363.1  | 333.9  | 332.4  | 324.6  | 330.0  | 350.3  | 357.7  |
| 60°   | 906.3  | 310.9  | 329.2  | 326.5  | 307.8  | 315.2  | 313.3  | 316.0  | 323.0  | 325.3  |
| 62.5° | 879.0  | 286.8  | 295.7  | 291.8  | 284.4  | 297.3  | 302.0  | 296.1  | 301.6  | 304.3  |
| 65°   | 809.6  | 267.3  | 263.0  | 260.3  | 263.4  | 275.1  | 284.4  | 272.7  | 277.8  | 285.6  |
| 67.5° | 695.1  | 240.8  | 229.1  | 232.2  | 242.0  | 248.2  | 260.3  | 247.0  | 251.3  | 264.6  |
| 70°   | 562.2  | 207.3  | 196.8  | 205.7  | 215.1  | 227.9  | 229.9  | 220.9  | 231.0  | 245.9  |
| 72.5° | 397.8  | 173.4  | 166.0  | 184.3  | 187.4  | 204.2  | 199.9  | 195.6  | 209.6  | 214.7  |
| 75°   | 275.9  | 139.9  | 135.6  | 149.6  | 160.9  | 175.3  | 172.2  | 177.3  | 206.9  | 209.2  |
| 77.5° | 174.6  | 108.7  | 106.0  | 114.9  | 130.5  | 146.5  | 151.6  | 209.2  | 353.4  | 367.4  |
| 80°   | 101.3  | 81.0   | 77.9   | 84.9   | 98.6   | 113.4  | 146.1  | 256.8  | 233.0  | 230.3  |
| 82.5° | 56.5   | 55.7   | 51.8   | 53.8   | 65.8   | 81.8   | 206.5  | 180.8  | 146.9  | 151.6  |
| 85°   | 26.5   | 32.7   | 28.1   | 26.9   | 37.0   | 95.8   | 137.9  | 103.3  | 68.6   | 67.0   |
| 87.5° | 7.0    | 6.2    | 6.2    | 7.0    | 15.6   | 82.6   | 54.9   | 44.0   | 26.1   | 25.3   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)