

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: P945903

Luminaire Tested: **GALN-SB1D-722-U-AFL-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P945903  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB1D-722-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 2200K, 900mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 7170 lumens  
Efficiency: N/A  
Efficacy: 90.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 79.6  
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

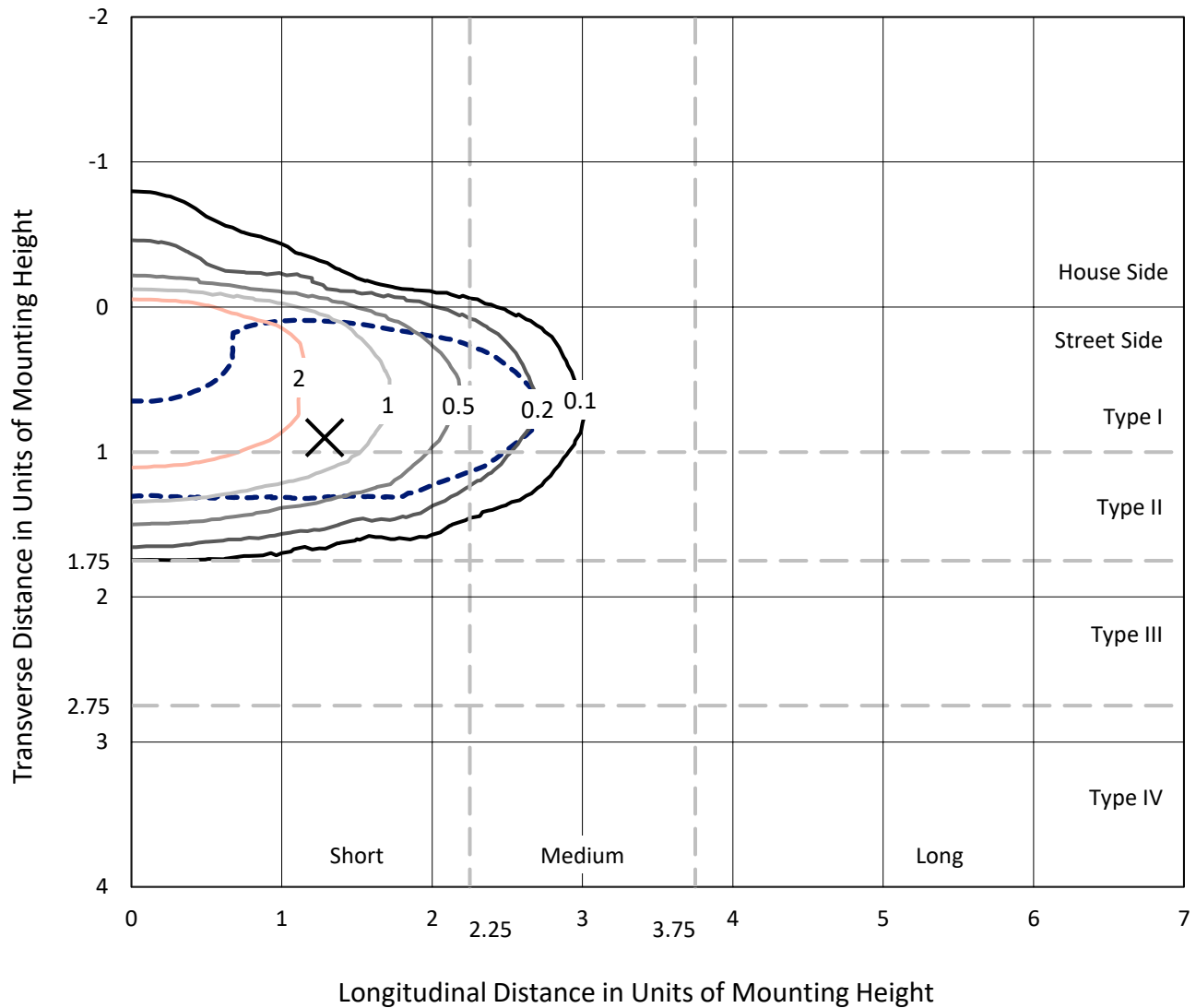


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## Iso-Footcandle Lines of Horizontal Illumination

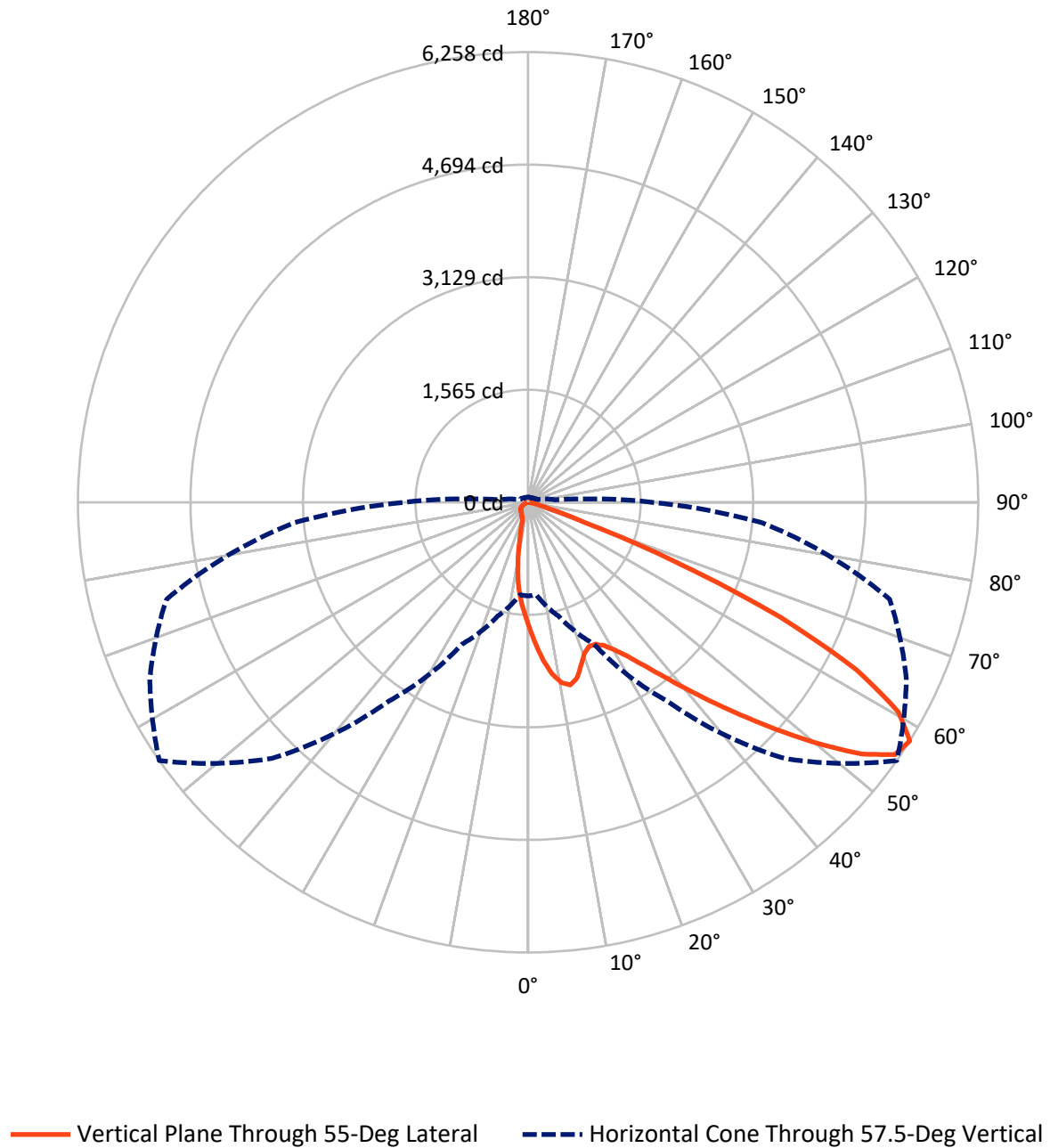
✕ Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc  
Type II - Short - N/A

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## Luminous Intensity Polar Plot



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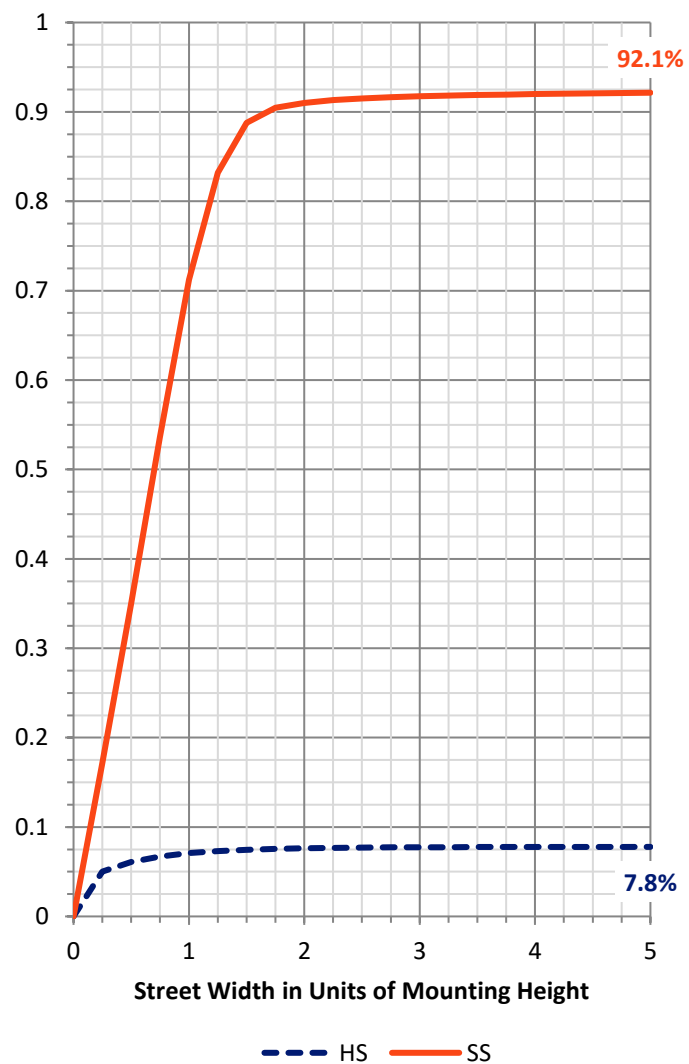
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 559.9    | 0.0    | 559.9  |
|                    | % Fixture | 7.8      | 0.0    | 7.8    |
| <b>Street Side</b> | Lumens    | 6610.1   | 0.0    | 6610.1 |
|                    | % Fixture | 92.2     | 0.0    | 92.2   |
| <b>Total</b>       | Lumens    | 7170.0   | 0.0    | 7170.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 160.8  | 2.2       |
| 10°-20°   | 388.3  | 5.4       |
| 20°-30°   | 621.3  | 8.7       |
| 30°-40°   | 1051.6 | 14.7      |
| 40°-50°   | 1726.5 | 24.1      |
| 50°-60°   | 1897.6 | 26.5      |
| 60°-70°   | 1088.4 | 15.2      |
| 70°-80°   | 222.4  | 3.1       |
| 80°-90°   | 13.1   | 0.2       |
| 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°    | 7170.0 | 100.0     |
| 0°-180°   | 7170.0 | 100.0     |

**Coefficient of Utilization**



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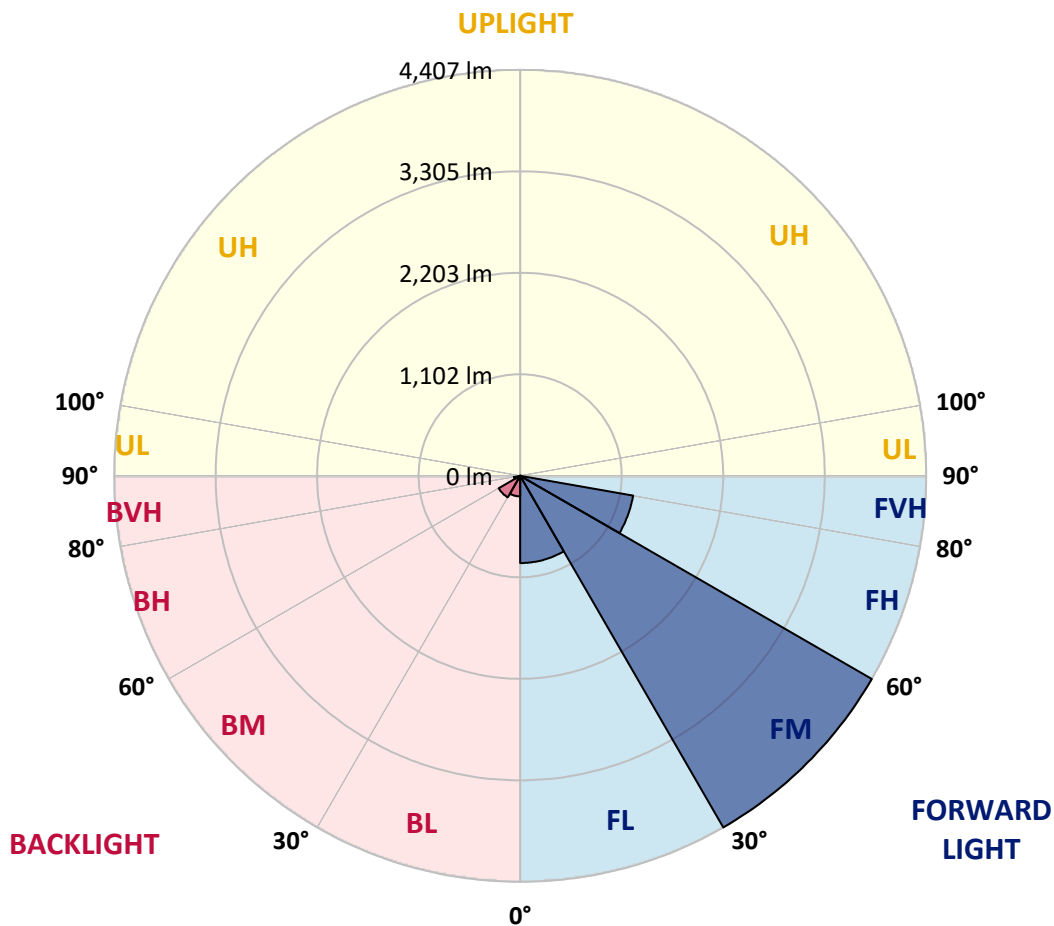
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 946.8  | 13.2      |                         |      |         |
| FM   | (30°-60°)   | 4406.7 | 61.5      |                         |      |         |
| FH   | (60°-80°)   | 1244.2 | 17.4      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 12.2   | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 223.5  | 3.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 268.9  | 3.8       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 66.6   | 0.9       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 0.9    | 0.0       |                         |      | G0/10   |
| 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°    | 1727.8 | 1727.8 | 1727.8 | 1727.8 | 1727.8 | 1727.8 | 1727.8 | 1727.8 | 1727.8 | 1727.8 | 1727.8 |
| 2.5°  | 2143.8 | 2116.9 | 2112.9 | 2107.6 | 2056.3 | 2017.8 | 1962.1 | 1901.1 | 1832.6 | 1762.7 | 1731.8 |
| 5°    | 2476.7 | 2455.5 | 2451.5 | 2426.8 | 2368.4 | 2303.0 | 2204.0 | 2078.8 | 1951.1 | 1800.7 | 1736.2 |
| 7.5°  | 2541.3 | 2537.3 | 2555.4 | 2554.6 | 2546.6 | 2494.9 | 2411.3 | 2262.3 | 2070.4 | 1847.6 | 1747.7 |
| 10°   | 2253.5 | 2263.6 | 2317.6 | 2364.9 | 2492.7 | 2566.9 | 2548.8 | 2425.9 | 2193.3 | 1901.1 | 1760.5 |
| 12.5° | 1991.3 | 1979.4 | 2017.8 | 2071.3 | 2219.9 | 2440.9 | 2605.8 | 2562.5 | 2333.9 | 1961.7 | 1779.5 |
| 15°   | 1826.8 | 1822.0 | 1843.6 | 1868.4 | 1981.6 | 2204.4 | 2539.5 | 2673.5 | 2469.2 | 2033.3 | 1808.3 |
| 17.5° | 1774.2 | 1770.2 | 1776.9 | 1783.1 | 1856.4 | 2028.9 | 2381.7 | 2741.6 | 2598.8 | 2115.1 | 1840.1 |
| 20°   | 1817.1 | 1811.8 | 1810.9 | 1806.0 | 1836.6 | 1954.2 | 2238.9 | 2746.4 | 2715.0 | 2189.4 | 1867.5 |
| 22.5° | 1942.2 | 1936.0 | 1914.4 | 1894.9 | 1897.6 | 1964.3 | 2175.2 | 2697.8 | 2802.6 | 2258.8 | 1884.7 |
| 25°   | 2169.0 | 2158.9 | 2113.8 | 2048.3 | 2006.8 | 2035.1 | 2184.9 | 2633.7 | 2886.1 | 2313.2 | 1876.3 |
| 27.5° | 2452.9 | 2439.6 | 2381.7 | 2284.4 | 2189.4 | 2154.9 | 2255.2 | 2589.5 | 2955.6 | 2354.7 | 1858.2 |
| 30°   | 2731.0 | 2713.7 | 2656.7 | 2581.1 | 2442.3 | 2333.5 | 2382.1 | 2608.9 | 3038.2 | 2398.0 | 1834.3 |
| 32.5° | 3031.2 | 3014.8 | 2939.2 | 2845.5 | 2730.5 | 2584.2 | 2555.9 | 2704.0 | 3139.5 | 2458.6 | 1817.5 |
| 35°   | 3410.9 | 3385.3 | 3277.9 | 3150.1 | 3028.1 | 2880.0 | 2791.1 | 2868.0 | 3274.3 | 2551.0 | 1826.8 |
| 37.5° | 3843.3 | 3808.8 | 3693.0 | 3516.6 | 3357.4 | 3191.6 | 3077.6 | 3093.5 | 3471.9 | 2674.8 | 1855.6 |
| 40°   | 4251.0 | 4219.6 | 4112.6 | 3946.3 | 3746.5 | 3545.3 | 3423.8 | 3388.4 | 3744.7 | 2825.6 | 1906.0 |
| 42.5° | 4495.4 | 4467.2 | 4422.1 | 4351.8 | 4183.3 | 3978.2 | 3824.8 | 3748.3 | 4067.5 | 3006.0 | 1967.4 |
| 45°   | 4509.2 | 4484.4 | 4545.0 | 4626.8 | 4593.6 | 4457.0 | 4270.0 | 4129.8 | 4391.5 | 3175.3 | 2031.1 |
| 47.5° | 4289.9 | 4273.1 | 4457.0 | 4742.6 | 4885.0 | 4942.4 | 4770.0 | 4479.5 | 4659.0 | 3296.9 | 2057.2 |
| 50°   | 3692.1 | 3685.9 | 4064.4 | 4588.7 | 4995.9 | 5367.7 | 5297.4 | 4804.9 | 4866.4 | 3359.6 | 2032.4 |
| 52.5° | 3201.4 | 3178.8 | 3399.4 | 4096.2 | 4834.5 | 5591.5 | 5813.0 | 5124.1 | 5011.4 | 3371.6 | 1974.5 |
| 55°   | 2428.1 | 2408.2 | 2685.0 | 3272.1 | 4314.2 | 5511.9 | 6190.1 | 5453.5 | 5115.3 | 3341.1 | 1870.6 |
| 57.5° | 1302.5 | 1290.1 | 1639.8 | 2177.9 | 3372.5 | 5034.4 | 6258.2 | 5801.9 | 5202.8 | 3260.2 | 1725.1 |
| 60°   | 507.1  | 504.9  | 635.8  | 1056.7 | 2049.7 | 4095.8 | 5914.6 | 6011.0 | 5257.7 | 3160.7 | 1603.6 |
| 62.5° | 306.8  | 313.5  | 334.7  | 474.4  | 905.5  | 2544.4 | 5122.8 | 5773.2 | 5294.4 | 3069.6 | 1503.2 |
| 65°   | 253.8  | 254.2  | 256.9  | 325.8  | 433.7  | 1064.6 | 3856.6 | 4990.6 | 5203.7 | 2907.4 | 1360.8 |
| 67.5° | 217.5  | 221.5  | 231.7  | 258.6  | 305.9  | 466.9  | 2220.3 | 3865.9 | 4652.4 | 2529.8 | 1138.9 |
| 70°   | 171.5  | 176.8  | 189.7  | 212.7  | 236.1  | 292.2  | 820.6  | 2572.2 | 3554.2 | 1906.9 | 861.2  |
| 72.5° | 144.6  | 144.1  | 150.8  | 172.9  | 187.5  | 205.6  | 315.7  | 1441.3 | 2065.6 | 910.3  | 426.2  |
| 75°   | 111.9  | 116.3  | 124.7  | 144.6  | 153.4  | 149.0  | 171.1  | 526.6  | 740.1  | 275.9  | 145.0  |
| 77.5° | 87.5   | 91.1   | 98.6   | 118.0  | 126.9  | 105.7  | 98.6   | 188.3  | 237.9  | 99.0   | 65.4   |
| 80°   | 39.3   | 42.4   | 67.2   | 87.1   | 103.5  | 72.9   | 53.5   | 96.4   | 105.7  | 45.1   | 33.2   |
| 82.5° | 7.1    | 11.9   | 39.3   | 46.0   | 53.1   | 47.3   | 27.9   | 50.0   | 51.7   | 18.1   | 11.5   |
| 85°   | 0.4    | 0.9    | 13.7   | 16.8   | 21.2   | 15.5   | 8.4    | 19.9   | 17.2   | 6.2    | 4.4    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.4    | 0.4    | 2.2    | 2.7    | 3.5    | 2.7    | 2.2    | 1.8    |
| 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°    | 1727.8 | 1727.8 | 1727.8 | 1727.8 | 1727.8 | 1727.8 | 1727.8 | 1727.8 | 1727.8 | 1727.8 |
| 2.5°  | 1699.9 | 1637.2 | 1576.1 | 1526.2 | 1497.0 | 1447.5 | 1414.8 | 1409.5 | 1395.8 | 1407.7 |
| 5°    | 1667.2 | 1554.9 | 1441.3 | 1339.6 | 1256.1 | 1148.2 | 1067.7 | 1033.7 | 1004.0 | 1014.2 |
| 7.5°  | 1651.7 | 1474.5 | 1297.6 | 1123.9 | 945.2  | 772.8  | 644.6  | 591.1  | 550.4  | 556.2  |
| 10°   | 1631.0 | 1390.9 | 1113.7 | 848.4  | 609.2  | 439.0  | 350.6  | 317.9  | 299.8  | 300.2  |
| 12.5° | 1615.1 | 1291.0 | 900.2  | 575.2  | 370.9  | 280.3  | 252.9  | 244.9  | 239.6  | 240.1  |
| 15°   | 1607.1 | 1173.4 | 689.3  | 383.3  | 265.3  | 237.4  | 230.8  | 227.2  | 223.7  | 223.3  |
| 17.5° | 1593.8 | 1042.5 | 504.5  | 279.9  | 232.1  | 222.4  | 216.6  | 212.7  | 208.2  | 207.4  |
| 20°   | 1573.9 | 894.0  | 368.7  | 236.5  | 217.5  | 210.0  | 202.0  | 196.7  | 191.4  | 190.6  |
| 22.5° | 1537.2 | 737.0  | 283.4  | 218.8  | 206.9  | 198.5  | 188.8  | 182.6  | 177.3  | 176.4  |
| 25°   | 1469.2 | 589.8  | 238.7  | 207.8  | 197.6  | 187.5  | 176.8  | 168.4  | 163.6  | 162.7  |
| 27.5° | 1382.9 | 463.3  | 216.6  | 197.6  | 185.7  | 176.4  | 164.5  | 156.5  | 152.1  | 151.2  |
| 30°   | 1281.3 | 356.8  | 203.8  | 186.1  | 171.5  | 163.6  | 153.0  | 146.3  | 143.7  | 143.7  |
| 32.5° | 1171.6 | 285.2  | 198.5  | 174.6  | 159.2  | 150.3  | 141.9  | 139.3  | 138.4  | 137.9  |
| 35°   | 1068.6 | 247.6  | 195.9  | 165.4  | 148.1  | 139.7  | 136.2  | 136.6  | 138.4  | 138.4  |
| 37.5° | 977.1  | 235.6  | 194.5  | 158.7  | 138.4  | 130.9  | 133.1  | 137.1  | 135.3  | 135.3  |
| 40°   | 894.4  | 237.0  | 193.6  | 153.9  | 130.4  | 126.0  | 130.4  | 127.3  | 122.9  | 122.5  |
| 42.5° | 831.2  | 248.0  | 191.9  | 149.9  | 125.6  | 122.5  | 120.7  | 115.8  | 115.4  | 116.3  |
| 45°   | 785.2  | 257.8  | 191.4  | 148.1  | 120.3  | 114.5  | 112.3  | 107.4  | 116.3  | 118.5  |
| 47.5° | 730.8  | 257.8  | 191.4  | 141.9  | 111.4  | 109.2  | 105.7  | 100.4  | 109.2  | 111.4  |
| 50°   | 660.5  | 241.4  | 183.9  | 134.8  | 104.3  | 103.0  | 96.8   | 90.2   | 88.4   | 89.7   |
| 52.5° | 571.7  | 211.8  | 164.9  | 125.1  | 97.3   | 94.6   | 87.1   | 82.2   | 80.9   | 80.9   |
| 55°   | 470.4  | 177.3  | 139.3  | 111.0  | 89.7   | 84.9   | 79.6   | 77.4   | 76.0   | 75.2   |
| 57.5° | 382.4  | 145.5  | 111.9  | 98.6   | 82.7   | 76.5   | 74.7   | 72.1   | 69.9   | 68.5   |
| 60°   | 313.9  | 114.5  | 92.4   | 87.5   | 75.6   | 69.9   | 69.4   | 65.9   | 60.1   | 59.2   |
| 62.5° | 242.3  | 84.0   | 77.8   | 76.0   | 68.5   | 63.7   | 62.8   | 55.7   | 46.9   | 45.1   |
| 65°   | 171.1  | 65.4   | 62.8   | 66.8   | 61.0   | 56.6   | 54.4   | 43.8   | 34.5   | 33.2   |
| 67.5° | 120.3  | 54.8   | 49.5   | 58.4   | 53.1   | 47.3   | 46.0   | 37.1   | 28.7   | 27.9   |
| 70°   | 85.8   | 44.7   | 40.7   | 50.0   | 42.4   | 41.6   | 38.9   | 30.9   | 23.4   | 22.5   |
| 72.5° | 60.6   | 34.0   | 31.4   | 43.3   | 29.2   | 35.8   | 31.8   | 23.9   | 17.7   | 16.8   |
| 75°   | 44.7   | 24.3   | 22.1   | 25.2   | 21.2   | 27.0   | 22.5   | 15.9   | 11.1   | 10.6   |
| 77.5° | 32.7   | 15.5   | 13.3   | 12.4   | 12.4   | 16.8   | 12.4   | 6.6    | 4.9    | 4.4    |
| 80°   | 23.0   | 7.1    | 6.2    | 5.3    | 4.9    | 4.0    | 1.8    | 0.9    | 0.4    | 0.4    |
| 82.5° | 13.7   | 3.1    | 3.1    | 2.2    | 1.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 3.1    | 1.3    | 1.3    | 0.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.4    | 0.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)