

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: P949131

Luminaire Tested: **GALN-SB4A-722-U-T3R-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P949131  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4A-722-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 12364 lumens  
Efficiency: N/A  
Efficacy: 108.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 114  
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



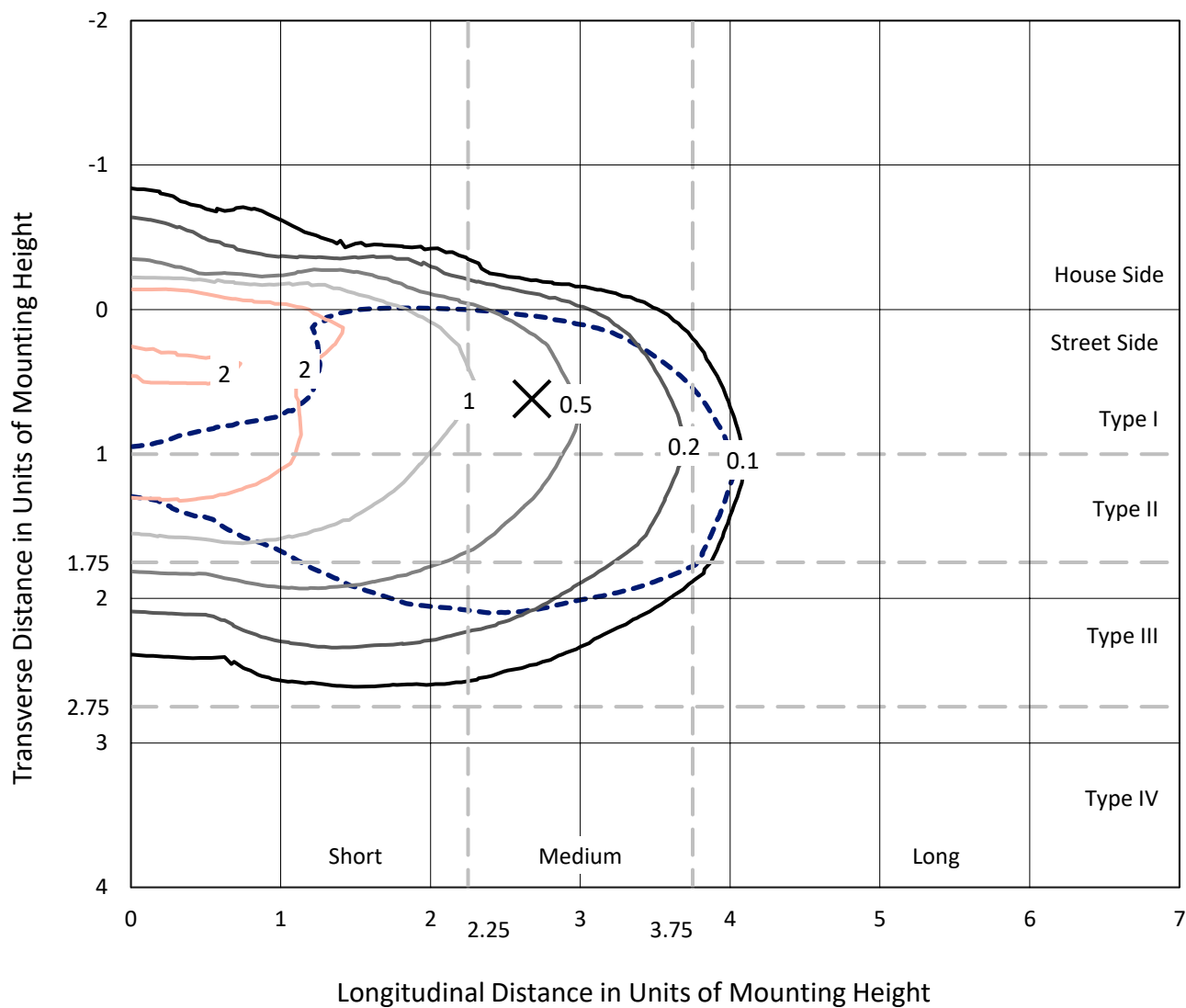
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

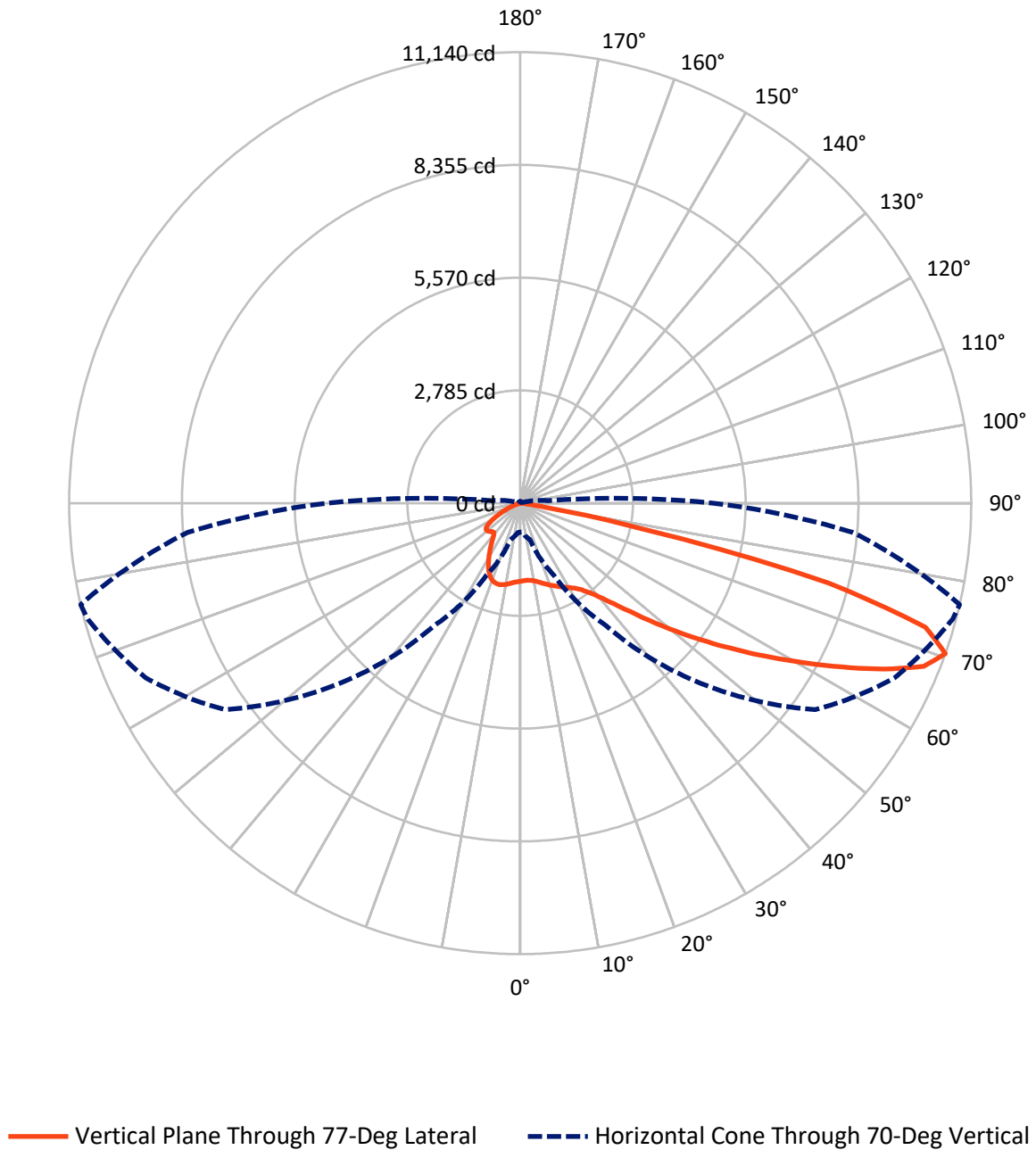


Based on 25 foot mounting height. Maximum calculated value = 3.6 fc

Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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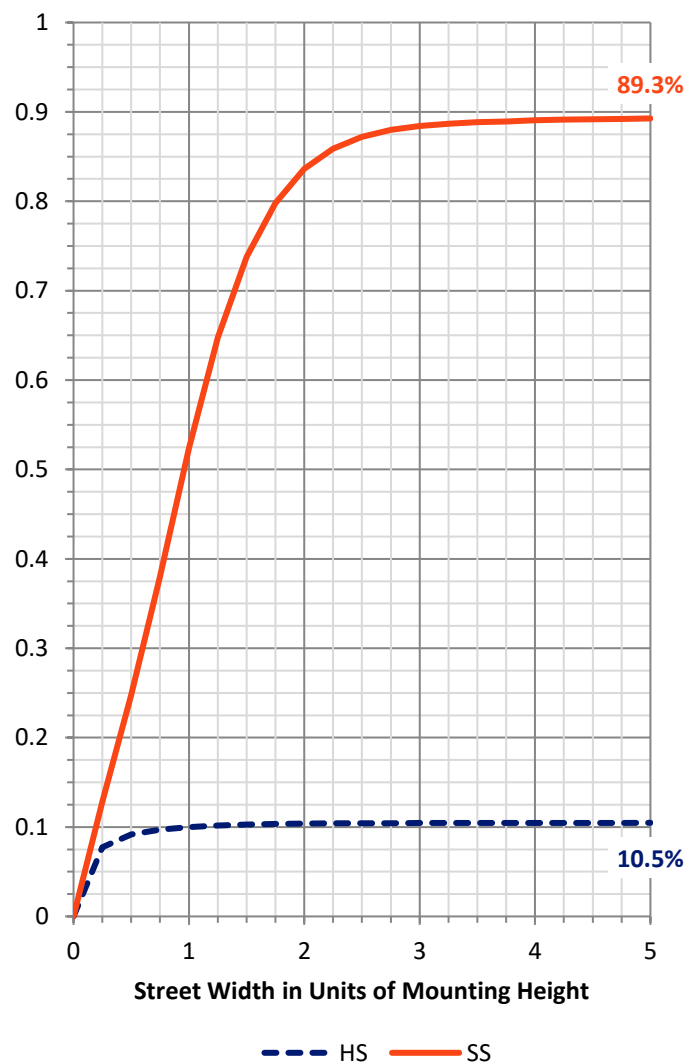
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1303.3   | 0.0    | 1303.3  |
|                    | % Fixture | 10.5     | 0.0    | 10.5    |
| <b>Street Side</b> | Lumens    | 11060.6  | 0.0    | 11060.6 |
|                    | % Fixture | 89.5     | 0.0    | 89.5    |
| <b>Total</b>       | Lumens    | 12364.0  | 0.0    | 12364.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 166.2   | 1.3       |
| 10°-20°   | 394.6   | 3.2       |
| 20°-30°   | 610.3   | 4.9       |
| 30°-40°   | 1107.4  | 9.0       |
| 40°-50°   | 2090.3  | 16.9      |
| 50°-60°   | 3020.4  | 24.4      |
| 60°-70°   | 3215.1  | 26.0      |
| 70°-80°   | 1703.8  | 13.8      |
| 80°-90°   | 55.9    | 0.5       |
| 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°    | 12364.0 | 100.0     |
| 0°-180°   | 12364.0 | 100.0     |

**Coefficient of Utilization**



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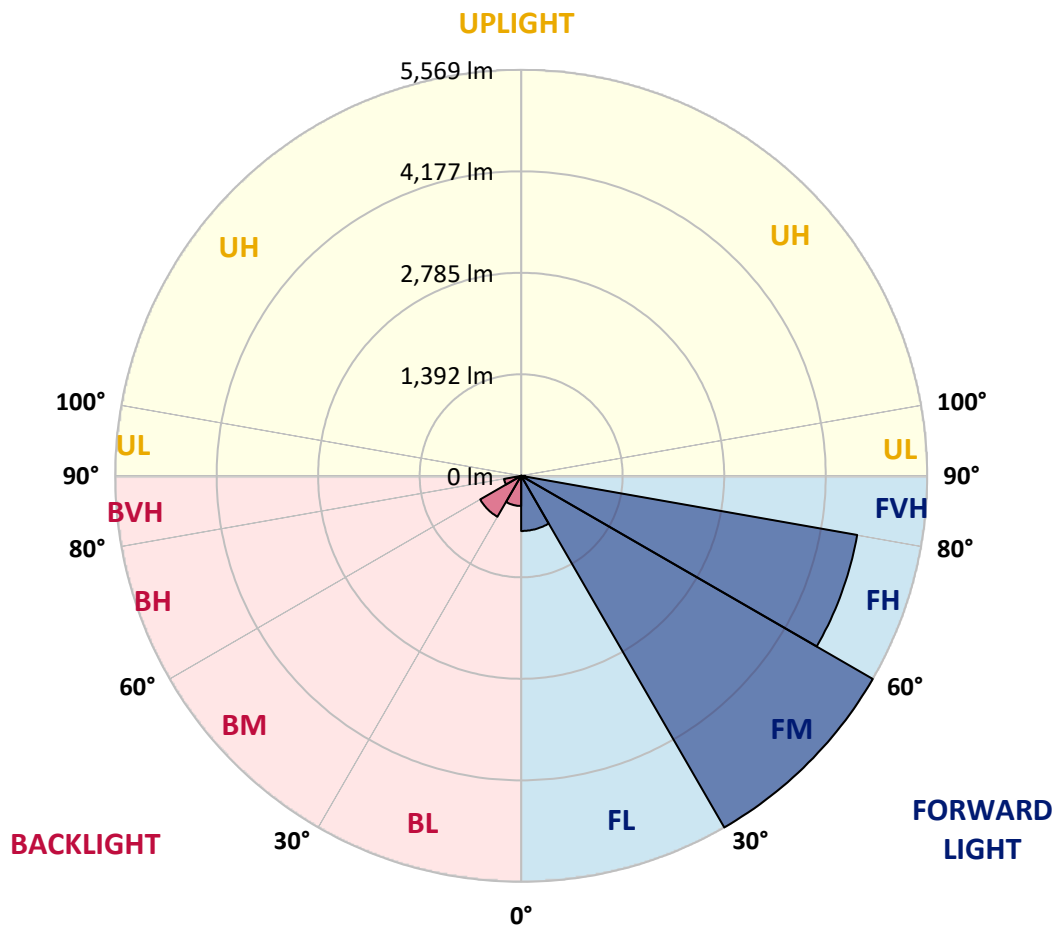
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 757.0  | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 5569.3 | 45.0      |                         |      |         |
| FH   | (60°-80°)   | 4679.9 | 37.9      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 54.4   | 0.4       |                         |      | G1/100  |
| BL   | (0°-30°)    | 414.1  | 3.3       | B1/500                  |      |         |
| BM   | (30°-60°)   | 648.8  | 5.2       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 238.9  | 1.9       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 1.5    | 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-G2**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°     | 75°     | 77°     | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|--------|
| 0°    | 1928.6 | 1928.6 | 1928.6 | 1928.6 | 1928.6 | 1928.6 | 1928.6 | 1928.6  | 1928.6  | 1928.6  | 1928.6 |
| 2.5°  | 1810.7 | 1827.1 | 1824.7 | 1835.6 | 1839.6 | 1855.2 | 1870.8 | 1891.9  | 1915.3  | 1914.5  | 1930.1 |
| 5°    | 1708.4 | 1724.8 | 1728.7 | 1743.5 | 1762.3 | 1786.5 | 1818.5 | 1860.6  | 1904.4  | 1911.4  | 1942.6 |
| 7.5°  | 1587.4 | 1604.5 | 1614.7 | 1644.4 | 1678.7 | 1728.7 | 1781.0 | 1842.7  | 1915.3  | 1925.4  | 1985.6 |
| 10°   | 1466.3 | 1481.9 | 1495.2 | 1537.4 | 1592.0 | 1666.2 | 1751.3 | 1840.3  | 1937.9  | 1952.8  | 2037.9 |
| 12.5° | 1391.4 | 1406.2 | 1421.0 | 1457.7 | 1525.7 | 1616.2 | 1731.8 | 1851.3  | 1975.4  | 1996.5  | 2108.9 |
| 15°   | 1364.8 | 1378.1 | 1389.8 | 1422.6 | 1485.9 | 1588.9 | 1727.9 | 1873.9  | 2023.0  | 2051.1  | 2194.8 |
| 17.5° | 1368.7 | 1375.8 | 1383.6 | 1408.6 | 1470.2 | 1576.4 | 1734.9 | 1912.9  | 2079.3  | 2104.2  | 2280.7 |
| 20°   | 1391.4 | 1395.3 | 1396.1 | 1413.2 | 1467.9 | 1574.9 | 1749.0 | 1950.4  | 2132.3  | 2165.9  | 2365.8 |
| 22.5° | 1420.3 | 1421.8 | 1420.3 | 1432.0 | 1482.7 | 1586.6 | 1767.7 | 1995.7  | 2191.7  | 2222.9  | 2451.7 |
| 25°   | 1555.3 | 1525.7 | 1488.2 | 1465.5 | 1507.7 | 1609.2 | 1795.8 | 2056.6  | 2256.5  | 2286.9  | 2535.2 |
| 27.5° | 1974.6 | 1889.5 | 1755.2 | 1604.5 | 1559.2 | 1642.0 | 1834.9 | 2118.3  | 2322.1  | 2349.4  | 2625.0 |
| 30°   | 2655.5 | 2543.8 | 2315.8 | 1976.2 | 1724.8 | 1710.7 | 1885.6 | 2180.0  | 2391.6  | 2421.2  | 2721.1 |
| 32.5° | 3337.9 | 3310.6 | 3047.4 | 2577.4 | 2097.2 | 1863.8 | 1969.9 | 2263.5  | 2483.7  | 2507.1  | 2850.7 |
| 35°   | 4028.1 | 3972.7 | 3757.2 | 3292.6 | 2671.1 | 2175.3 | 2110.5 | 2372.8  | 2604.7  | 2631.3  | 3039.6 |
| 37.5° | 4556.7 | 4523.1 | 4389.6 | 4007.0 | 3351.9 | 2656.3 | 2351.0 | 2542.3  | 2780.4  | 2810.1  | 3281.7 |
| 40°   | 5023.6 | 5008.0 | 4962.7 | 4710.5 | 4113.2 | 3285.6 | 2725.0 | 2804.6  | 3024.0  | 3059.2  | 3578.4 |
| 42.5° | 5390.6 | 5427.3 | 5453.1 | 5382.8 | 4897.9 | 4003.9 | 3227.8 | 3173.1  | 3363.7  | 3399.6  | 3956.3 |
| 45°   | 5766.2 | 5778.7 | 5882.5 | 5984.0 | 5677.2 | 4755.0 | 3794.7 | 3604.9  | 3786.1  | 3830.6  | 4409.1 |
| 47.5° | 6007.4 | 6057.4 | 6240.1 | 6418.9 | 6332.2 | 5499.9 | 4403.7 | 4114.8  | 4275.6  | 4359.2  | 4916.7 |
| 50°   | 6025.4 | 6119.9 | 6371.3 | 6682.8 | 6809.3 | 6208.9 | 5065.8 | 4695.7  | 4866.7  | 4958.8  | 5458.5 |
| 52.5° | 5726.3 | 5873.1 | 6262.7 | 6718.7 | 7067.0 | 6809.3 | 5750.5 | 5276.6  | 5496.0  | 5616.2  | 6020.7 |
| 55°   | 4390.4 | 4582.5 | 5854.4 | 6523.5 | 7077.1 | 7264.5 | 6417.3 | 5881.7  | 6197.2  | 6333.0  | 6628.2 |
| 57.5° | 3825.1 | 3921.9 | 4602.8 | 6184.7 | 6888.9 | 7448.0 | 7020.1 | 6457.9  | 6960.0  | 7128.6  | 7202.0 |
| 60°   | 3182.5 | 3309.8 | 3860.2 | 5630.3 | 6633.6 | 7466.0 | 7552.6 | 7201.3  | 7786.9  | 7976.6  | 7728.3 |
| 62.5° | 2162.8 | 2301.0 | 2848.3 | 4677.7 | 6284.6 | 7457.4 | 7989.1 | 7966.4  | 8705.9  | 8909.6  | 8174.1 |
| 65°   | 1339.8 | 1426.5 | 1787.2 | 3819.6 | 5796.6 | 7466.7 | 8445.8 | 8895.6  | 9675.6  | 9882.5  | 8519.2 |
| 67.5° | 1058.8 | 1098.6 | 1286.7 | 2932.7 | 4955.7 | 7255.9 | 8901.8 | 9769.3  | 10588.3 | 10752.3 | 8624.6 |
| 70°   | 711.3  | 735.5  | 936.2  | 1966.0 | 3686.9 | 6283.0 | 8893.2 | 10208.1 | 11058.4 | 11140.4 | 8240.5 |
| 72.5° | 374.8  | 393.5  | 547.3  | 910.4  | 2226.8 | 4466.1 | 7496.4 | 9683.4  | 10590.7 | 10467.3 | 7043.5 |
| 75°   | 187.4  | 218.6  | 368.5  | 462.2  | 951.0  | 2490.7 | 4655.1 | 7634.6  | 8335.8  | 7857.9  | 4519.2 |
| 77.5° | 142.1  | 171.8  | 304.5  | 304.5  | 331.1  | 838.6  | 1971.5 | 4164.0  | 3840.7  | 3198.1  | 1326.6 |
| 80°   | 90.6   | 117.1  | 266.3  | 230.3  | 138.2  | 213.2  | 513.8  | 1166.5  | 815.9   | 620.7   | 241.3  |
| 82.5° | 53.1   | 76.5   | 221.7  | 152.3  | 77.3   | 78.9   | 145.2  | 248.3   | 211.6   | 164.7   | 74.2   |
| 85°   | 21.1   | 50.0   | 152.3  | 60.1   | 30.5   | 19.5   | 43.7   | 53.1    | 43.7    | 32.8    | 18.7   |
| 87.5° | 0.0    | 11.7   | 26.5   | 0.0    | 2.3    | 1.6    | 3.1    | 3.9     | 3.9     | 3.1     | 6.2    |
| 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°    | 1928.6 | 1928.6 | 1928.6 | 1928.6 | 1928.6 | 1928.6 | 1928.6 | 1928.6 | 1928.6 | 1928.6 | 1928.6 |
| 2.5°  | 1937.1 | 1938.7 | 1943.4 | 1944.2 | 1933.2 | 1919.2 | 1913.7 | 1911.4 | 1902.0 | 1901.2 | 1902.8 |
| 5°    | 1960.6 | 1967.6 | 1960.6 | 1940.3 | 1891.9 | 1823.9 | 1772.4 | 1730.2 | 1692.0 | 1680.3 | 1673.2 |
| 7.5°  | 2007.4 | 2014.4 | 1993.4 | 1913.7 | 1791.9 | 1656.8 | 1535.0 | 1449.2 | 1371.9 | 1343.0 | 1331.3 |
| 10°   | 2074.6 | 2083.9 | 2017.6 | 1856.7 | 1641.2 | 1424.2 | 1218.0 | 1072.8 | 959.6  | 913.5  | 894.0  |
| 12.5° | 2158.9 | 2162.8 | 2030.8 | 1770.1 | 1445.2 | 1135.3 | 843.3  | 687.9  | 587.2  | 549.7  | 538.0  |
| 15°   | 2251.8 | 2246.3 | 2032.4 | 1652.2 | 1178.2 | 802.7  | 550.5  | 452.1  | 411.5  | 399.0  | 399.0  |
| 17.5° | 2349.4 | 2326.8 | 2001.2 | 1481.9 | 885.4  | 548.9  | 408.4  | 384.9  | 377.9  | 374.8  | 374.0  |
| 20°   | 2445.4 | 2394.7 | 1944.2 | 1259.4 | 635.6  | 409.9  | 370.9  | 363.8  | 359.9  | 358.4  | 356.8  |
| 22.5° | 2532.9 | 2446.2 | 1846.6 | 1001.0 | 461.4  | 362.3  | 350.6  | 344.3  | 337.3  | 334.2  | 333.4  |
| 25°   | 2618.0 | 2475.9 | 1709.2 | 759.7  | 369.3  | 338.9  | 329.5  | 317.8  | 308.4  | 304.5  | 302.9  |
| 27.5° | 2700.8 | 2494.6 | 1537.4 | 562.2  | 329.5  | 317.0  | 299.8  | 283.4  | 276.4  | 274.8  | 273.3  |
| 30°   | 2789.0 | 2500.9 | 1342.2 | 419.3  | 305.3  | 289.7  | 264.7  | 246.0  | 242.0  | 242.8  | 242.8  |
| 32.5° | 2896.7 | 2510.3 | 1145.4 | 343.5  | 285.0  | 256.9  | 227.2  | 207.7  | 204.6  | 207.7  | 206.9  |
| 35°   | 3025.6 | 2529.0 | 955.7  | 316.2  | 267.0  | 223.3  | 191.3  | 174.9  | 171.8  | 174.1  | 173.3  |
| 37.5° | 3200.5 | 2559.4 | 778.5  | 310.8  | 252.2  | 195.2  | 160.8  | 147.6  | 147.6  | 148.4  | 147.6  |
| 40°   | 3433.2 | 2640.6 | 620.0  | 306.9  | 244.4  | 174.1  | 135.9  | 130.4  | 132.7  | 134.3  | 134.3  |
| 42.5° | 3716.6 | 2813.2 | 513.0  | 302.2  | 235.8  | 164.7  | 123.4  | 121.0  | 124.9  | 126.5  | 126.5  |
| 45°   | 4034.4 | 3031.8 | 475.5  | 294.4  | 228.0  | 171.0  | 117.9  | 114.8  | 119.5  | 120.2  | 121.0  |
| 47.5° | 4363.1 | 3245.8 | 470.8  | 285.8  | 220.2  | 180.4  | 116.3  | 109.3  | 114.8  | 115.6  | 116.3  |
| 50°   | 4695.7 | 3385.5 | 475.5  | 272.5  | 207.7  | 180.4  | 117.1  | 103.8  | 108.5  | 110.9  | 111.7  |
| 52.5° | 5030.7 | 3449.5 | 472.4  | 243.6  | 185.8  | 169.4  | 117.1  | 99.2   | 103.8  | 105.4  | 105.4  |
| 55°   | 5355.5 | 3437.1 | 424.8  | 200.7  | 157.7  | 149.9  | 114.0  | 95.3   | 98.4   | 99.2   | 99.2   |
| 57.5° | 5612.3 | 3262.9 | 336.5  | 156.2  | 128.1  | 124.9  | 103.8  | 90.6   | 92.9   | 92.1   | 92.1   |
| 60°   | 5746.6 | 2880.3 | 240.5  | 120.2  | 100.7  | 98.4   | 91.4   | 84.3   | 85.9   | 82.0   | 81.2   |
| 62.5° | 5748.2 | 2374.4 | 160.8  | 95.3   | 80.4   | 78.1   | 78.1   | 75.7   | 74.2   | 66.4   | 64.0   |
| 65°   | 5625.6 | 1813.0 | 107.0  | 75.7   | 64.8   | 60.9   | 65.6   | 64.8   | 59.3   | 48.4   | 46.8   |
| 67.5° | 5347.7 | 1188.4 | 81.2   | 59.3   | 50.0   | 47.6   | 52.3   | 54.7   | 50.8   | 40.6   | 39.8   |
| 70°   | 4776.1 | 691.8  | 67.1   | 46.1   | 37.5   | 35.1   | 42.2   | 46.8   | 42.2   | 32.8   | 31.2   |
| 72.5° | 3967.2 | 373.2  | 54.7   | 34.4   | 25.8   | 23.4   | 33.6   | 38.3   | 33.6   | 24.2   | 23.4   |
| 75°   | 2574.3 | 199.9  | 42.2   | 22.6   | 13.3   | 14.8   | 25.0   | 28.1   | 23.4   | 15.6   | 14.1   |
| 77.5° | 864.3  | 88.2   | 26.5   | 10.9   | 6.2    | 6.2    | 14.8   | 17.2   | 10.9   | 5.5    | 4.7    |
| 80°   | 192.9  | 36.7   | 10.9   | 4.7    | 2.3    | 2.3    | 3.1    | 3.1    | 1.6    | 0.0    | 0.0    |
| 82.5° | 63.2   | 14.8   | 4.7    | 1.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 24.2   | 5.5    | 1.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 9.4    | 0.8    | 0.0    | 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    | 0.0    |

(END OF REPORT)