

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: P947348

Luminaire Tested: **GALN-SB2D-722-U-T4W-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P947348  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
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-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 12949 lumens  
Efficiency: N/A  
Efficacy: 87.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - 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

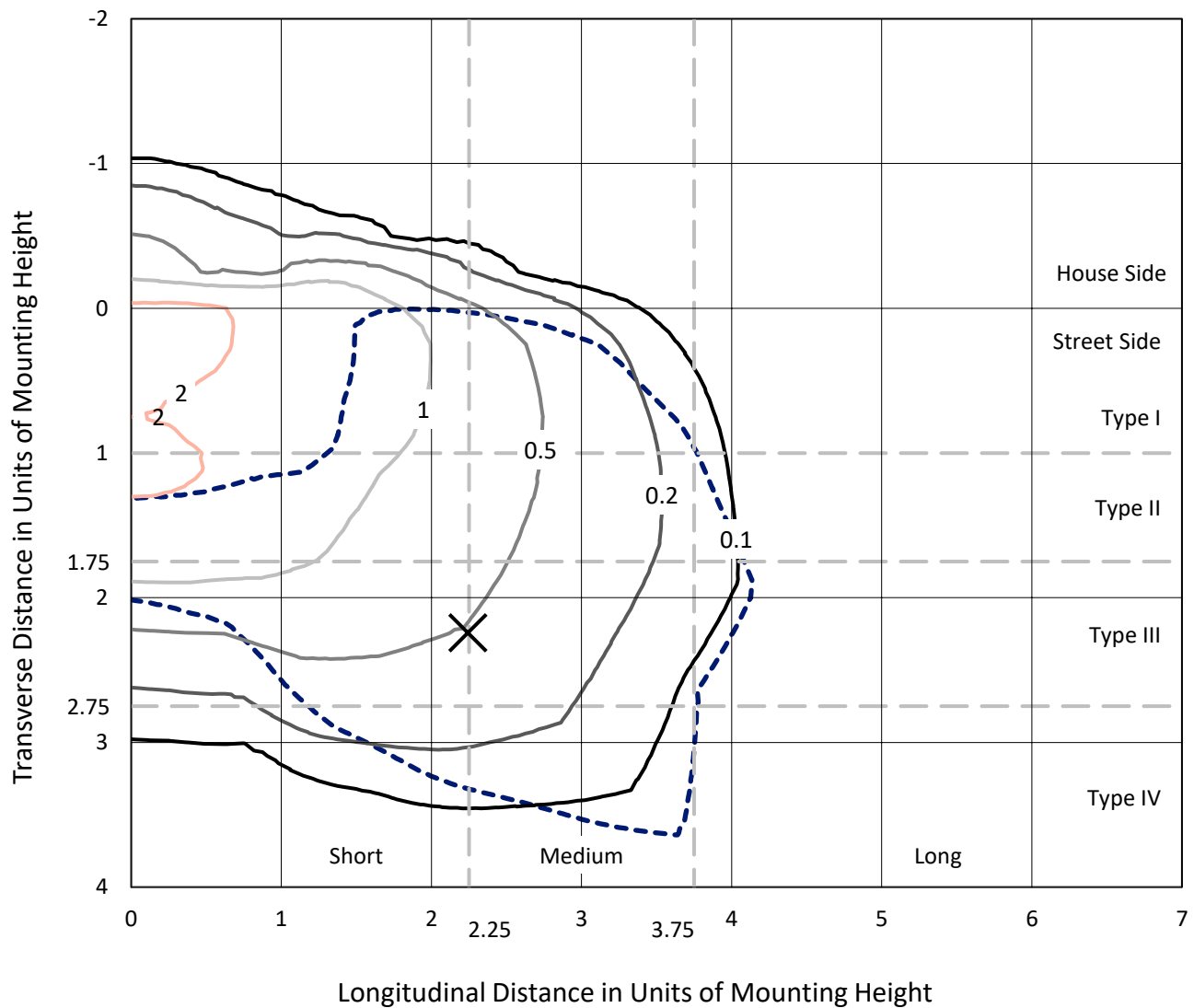


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## Iso-Footcandle Lines of Horizontal Illumination

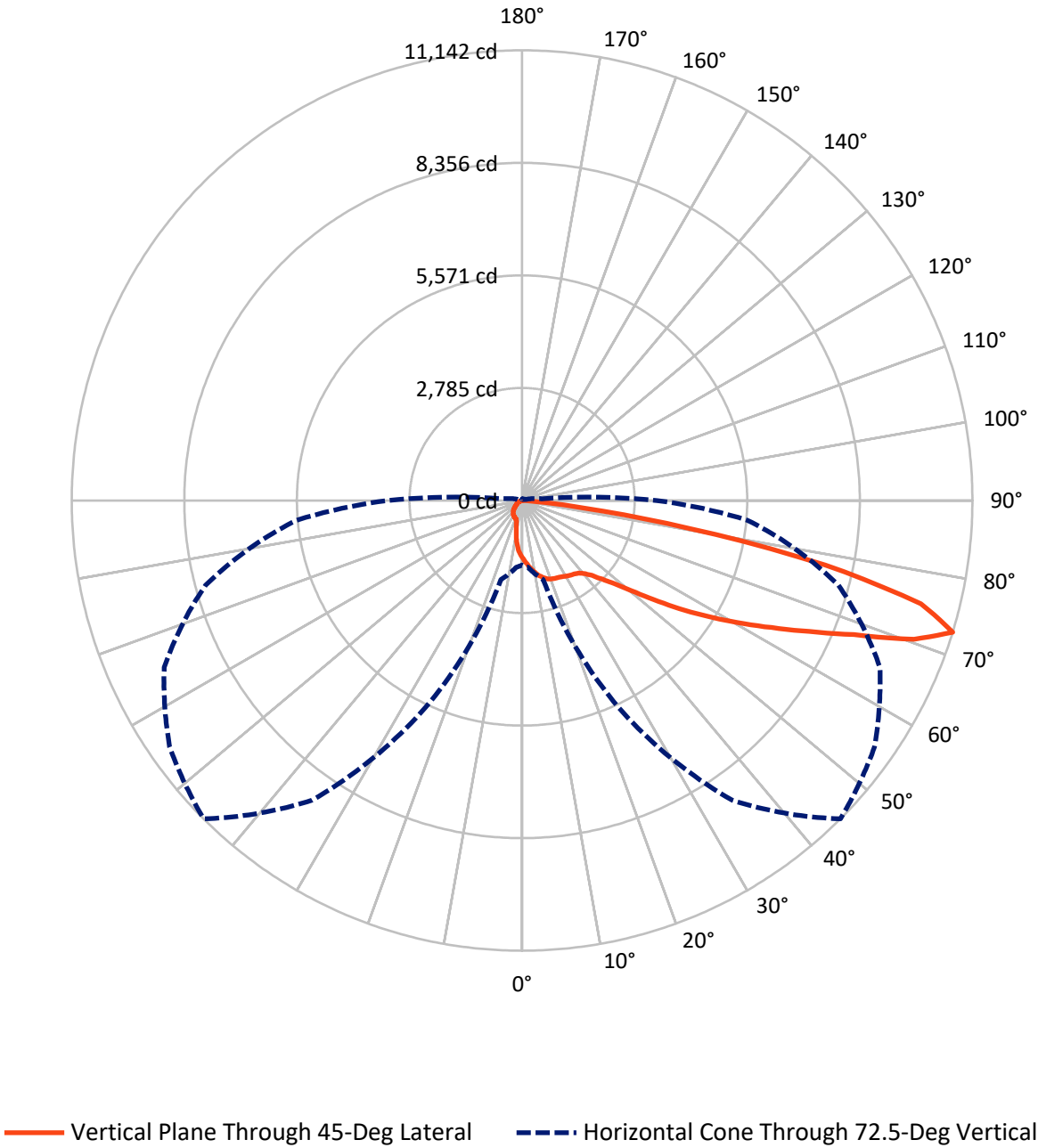
× Max cd  
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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    | 1360.6   | 0.0    | 1360.6  |
|                    | % Fixture | 10.5     | 0.0    | 10.5    |
| <b>Street Side</b> | Lumens    | 11588.4  | 0.0    | 11588.4 |
|                    | % Fixture | 89.5     | 0.0    | 89.5    |
| <b>Total</b>       | Lumens    | 12949.0  | 0.0    | 12949.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 133.7   | 1.0       |
| 10°-20°   | 390.6   | 3.0       |
| 20°-30°   | 641.5   | 5.0       |
| 30°-40°   | 909.8   | 7.0       |
| 40°-50°   | 1503.7  | 11.6      |
| 50°-60°   | 2701.3  | 20.9      |
| 60°-70°   | 3750.9  | 29.0      |
| 70°-80°   | 2720.8  | 21.0      |
| 80°-90°   | 196.7   | 1.5       |
| 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°    | 12949.0 | 100.0     |
| 0°-180°   | 12949.0 | 100.0     |

**Coefficient of Utilization**



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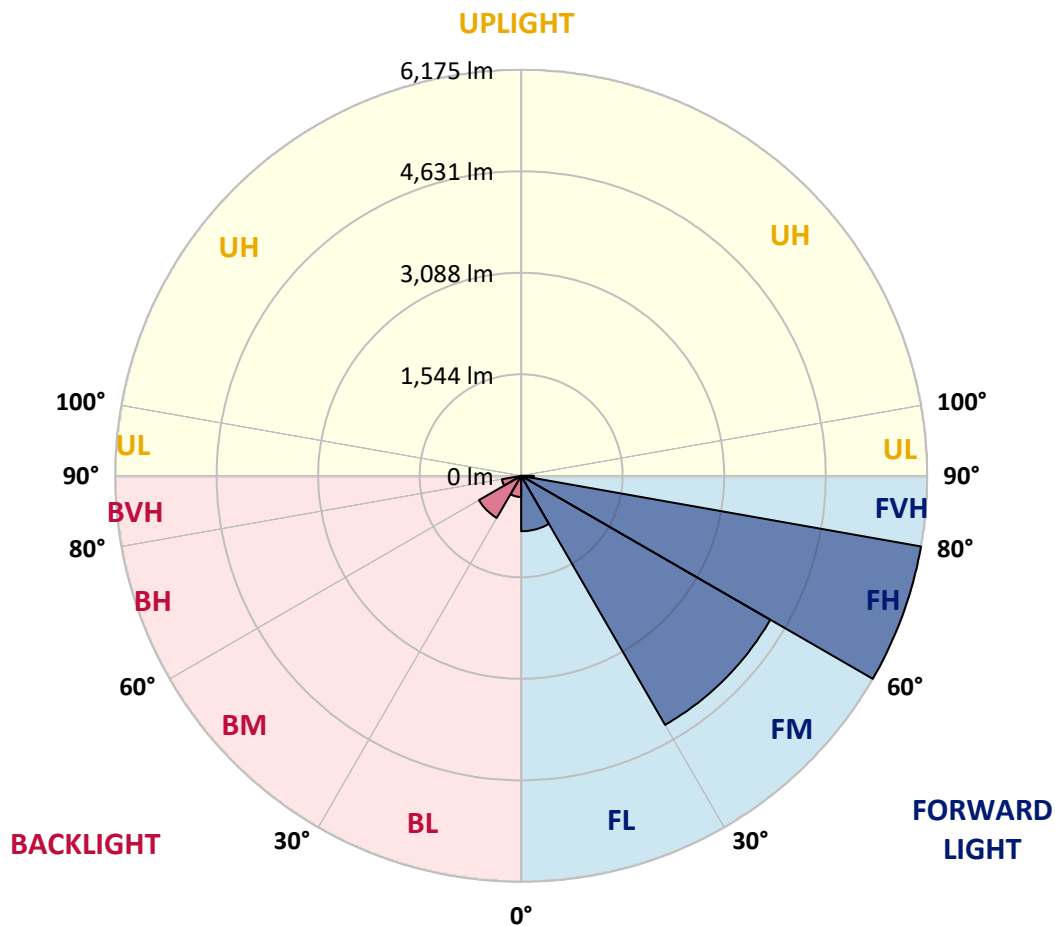
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 843.5  | 6.5       |                         |      |         |
| FM   | (30°-60°)   | 4374.9 | 33.8      |                         |      |         |
| FH   | (60°-80°)   | 6175.0 | 47.7      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 195.0  | 1.5       |                         |      | G2/225  |
| BL   | (0°-30°)    | 322.3  | 2.5       | B1/500                  |      |         |
| BM   | (30°-60°)   | 740.0  | 5.7       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 296.7  | 2.3       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 1.7    | 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-G3**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 46°     | 55°     | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|--------|--------|--------|
| 0°    | 1418.6 | 1418.6 | 1418.6 | 1418.6 | 1418.6 | 1418.6  | 1418.6  | 1418.6  | 1418.6 | 1418.6 | 1418.6 |
| 2.5°  | 1549.4 | 1552.1 | 1550.3 | 1539.7 | 1522.0 | 1512.3  | 1507.0  | 1489.3  | 1477.8 | 1457.5 | 1436.3 |
| 5°    | 1691.7 | 1702.3 | 1696.1 | 1674.9 | 1641.3 | 1617.5  | 1610.4  | 1574.1  | 1541.4 | 1503.4 | 1459.2 |
| 7.5°  | 1842.8 | 1848.1 | 1836.7 | 1809.3 | 1764.2 | 1723.5  | 1717.3  | 1667.0  | 1614.8 | 1556.5 | 1496.4 |
| 10°   | 1973.7 | 1979.8 | 1962.2 | 1922.4 | 1871.1 | 1820.7  | 1811.9  | 1756.2  | 1694.4 | 1622.8 | 1545.9 |
| 12.5° | 2083.3 | 2089.4 | 2066.5 | 2018.7 | 1962.2 | 1910.0  | 1901.2  | 1842.8  | 1774.8 | 1695.2 | 1599.8 |
| 15°   | 2166.3 | 2177.8 | 2146.9 | 2095.6 | 2034.6 | 1982.5  | 1978.1  | 1920.6  | 1854.3 | 1765.9 | 1664.3 |
| 17.5° | 2214.9 | 2226.4 | 2197.3 | 2135.4 | 2083.3 | 2039.1  | 2033.8  | 1986.0  | 1924.2 | 1839.3 | 1727.1 |
| 20°   | 2222.9 | 2233.5 | 2202.6 | 2148.7 | 2105.3 | 2070.0  | 2067.3  | 2032.9  | 1987.8 | 1906.5 | 1795.1 |
| 22.5° | 2199.0 | 2212.3 | 2184.0 | 2140.7 | 2110.7 | 2092.1  | 2088.6  | 2069.1  | 2043.5 | 1974.5 | 1858.8 |
| 25°   | 2174.3 | 2184.9 | 2163.7 | 2125.7 | 2109.8 | 2108.0  | 2110.7  | 2107.1  | 2101.8 | 2043.5 | 1933.0 |
| 27.5° | 2172.5 | 2184.0 | 2160.1 | 2123.9 | 2115.1 | 2133.6  | 2136.3  | 2153.1  | 2157.5 | 2106.2 | 2004.6 |
| 30°   | 2187.5 | 2195.5 | 2172.5 | 2134.5 | 2130.1 | 2172.5  | 2173.4  | 2203.5  | 2210.5 | 2159.3 | 2075.3 |
| 32.5° | 2220.2 | 2229.1 | 2206.1 | 2150.4 | 2144.2 | 2203.5  | 2206.1  | 2245.9  | 2257.4 | 2215.8 | 2149.5 |
| 35°   | 2297.1 | 2307.8 | 2281.2 | 2194.6 | 2172.5 | 2232.6  | 2240.6  | 2287.4  | 2310.4 | 2275.9 | 2226.4 |
| 37.5° | 2488.9 | 2458.0 | 2421.8 | 2283.9 | 2237.0 | 2278.6  | 2291.8  | 2346.6  | 2387.3 | 2347.5 | 2318.4 |
| 40°   | 2965.3 | 2868.1 | 2755.0 | 2435.9 | 2350.2 | 2376.7  | 2387.3  | 2442.1  | 2497.8 | 2458.9 | 2444.7 |
| 42.5° | 3680.4 | 3565.5 | 3383.4 | 2785.9 | 2520.8 | 2534.0  | 2542.0  | 2589.7  | 2668.4 | 2637.4 | 2641.0 |
| 45°   | 4317.6 | 4276.1 | 4090.5 | 3383.4 | 2839.8 | 2774.4  | 2784.1  | 2808.9  | 2924.7 | 2913.2 | 2936.2 |
| 47.5° | 4807.3 | 4783.4 | 4640.2 | 4069.3 | 3379.0 | 3068.8  | 3096.2  | 3107.6  | 3274.7 | 3315.3 | 3377.2 |
| 50°   | 5183.8 | 5175.0 | 5046.8 | 4679.1 | 4083.4 | 3502.7  | 3512.4  | 3487.7  | 3737.8 | 3838.6 | 3956.1 |
| 52.5° | 5539.1 | 5569.2 | 5474.6 | 5245.7 | 4835.6 | 4071.0  | 4069.3  | 3952.6  | 4290.2 | 4442.3 | 4642.9 |
| 55°   | 5860.0 | 5870.6 | 5880.3 | 5823.7 | 5592.2 | 4718.0  | 4701.2  | 4510.3  | 4931.0 | 5088.4 | 5305.8 |
| 57.5° | 6161.4 | 6165.8 | 6252.4 | 6368.2 | 6379.7 | 5412.7  | 5381.8  | 5152.9  | 5631.1 | 5743.3 | 5876.8 |
| 60°   | 6363.8 | 6384.1 | 6567.1 | 6888.8 | 7029.3 | 6129.5  | 6112.8  | 5879.4  | 6343.4 | 6395.6 | 6370.8 |
| 62.5° | 6072.1 | 6195.8 | 6657.2 | 7295.4 | 7642.7 | 6924.1  | 6916.2  | 6697.0  | 7093.0 | 7050.5 | 6838.4 |
| 65°   | 4915.1 | 5124.6 | 5936.0 | 7570.2 | 8244.6 | 7811.5  | 7823.0  | 7589.7  | 7862.8 | 7724.9 | 7218.5 |
| 67.5° | 3438.2 | 3659.2 | 4619.0 | 7592.3 | 8917.2 | 8853.6  | 8919.9  | 8554.0  | 8680.4 | 8371.0 | 7308.6 |
| 70°   | 2377.6 | 2491.6 | 3116.5 | 7116.8 | 9441.4 | 10289.0 | 10287.2 | 9738.3  | 9493.5 | 8665.3 | 6849.0 |
| 72.5° | 1598.9 | 1658.1 | 2024.0 | 5646.1 | 9056.0 | 11141.9 | 11090.6 | 10643.4 | 9767.5 | 8104.1 | 5595.7 |
| 75°   | 674.4  | 717.7  | 936.9  | 3173.0 | 7164.5 | 10193.5 | 10054.8 | 9406.0  | 8678.6 | 6381.4 | 3491.2 |
| 77.5° | 213.9  | 232.5  | 369.5  | 1135.8 | 3946.4 | 7662.2  | 7515.4  | 5874.1  | 5816.7 | 3201.3 | 1276.3 |
| 80°   | 101.6  | 118.4  | 207.7  | 456.1  | 1552.9 | 4167.4  | 4147.1  | 2664.8  | 2502.2 | 864.4  | 256.3  |
| 82.5° | 44.2   | 52.1   | 114.9  | 243.9  | 694.7  | 1486.6  | 1516.7  | 906.8   | 750.4  | 327.9  | 78.7   |
| 85°   | 14.1   | 18.6   | 53.0   | 112.2  | 293.4  | 369.5   | 365.0   | 215.7   | 302.3  | 178.5  | 27.4   |
| 87.5° | 0.0    | 0.0    | 17.7   | 25.6   | 30.1   | 21.2    | 23.9    | 18.6    | 84.0   | 49.5   | 9.7    |
| 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):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1418.6 | 1418.6 | 1418.6 | 1418.6 | 1418.6 | 1418.6 | 1418.6 | 1418.6 | 1418.6 | 1418.6 | 1418.6 |
| 2.5°  | 1425.7 | 1411.5 | 1386.8 | 1363.8 | 1343.5 | 1323.1 | 1310.8 | 1293.1 | 1291.3 | 1291.3 | 1295.7 |
| 5°    | 1435.4 | 1412.4 | 1368.2 | 1321.4 | 1267.5 | 1216.2 | 1164.9 | 1115.4 | 1099.5 | 1088.0 | 1093.3 |
| 7.5°  | 1463.7 | 1427.4 | 1357.6 | 1268.3 | 1165.8 | 1053.6 | 974.9  | 890.0  | 857.3  | 839.7  | 842.3  |
| 10°   | 1504.3 | 1454.8 | 1348.8 | 1192.3 | 1026.2 | 873.3  | 761.0  | 669.1  | 633.7  | 618.7  | 618.7  |
| 12.5° | 1549.4 | 1488.4 | 1332.9 | 1097.8 | 873.3  | 690.3  | 580.7  | 538.3  | 533.0  | 533.0  | 533.0  |
| 15°   | 1603.3 | 1529.1 | 1305.5 | 986.4  | 713.3  | 546.2  | 507.3  | 509.1  | 514.4  | 517.9  | 517.9  |
| 17.5° | 1659.0 | 1572.4 | 1262.1 | 861.8  | 571.9  | 491.4  | 492.3  | 495.0  | 499.4  | 502.9  | 502.9  |
| 20°   | 1719.1 | 1615.7 | 1204.7 | 729.2  | 490.5  | 475.5  | 478.2  | 480.8  | 484.4  | 486.1  | 487.0  |
| 22.5° | 1783.6 | 1656.3 | 1136.6 | 599.3  | 463.1  | 462.3  | 463.1  | 465.8  | 470.2  | 470.2  | 472.0  |
| 25°   | 1852.6 | 1701.4 | 1058.9 | 504.7  | 449.0  | 449.0  | 450.8  | 452.5  | 456.1  | 456.1  | 457.0  |
| 27.5° | 1923.3 | 1743.0 | 976.7  | 455.2  | 436.6  | 435.7  | 435.7  | 438.4  | 440.2  | 441.0  | 441.9  |
| 30°   | 2001.1 | 1791.6 | 894.5  | 444.6  | 426.9  | 422.5  | 419.8  | 421.6  | 423.4  | 424.3  | 426.0  |
| 32.5° | 2080.6 | 1838.4 | 821.1  | 449.0  | 417.2  | 409.2  | 400.4  | 398.6  | 398.6  | 402.2  | 404.8  |
| 35°   | 2169.0 | 1889.7 | 764.5  | 464.0  | 411.9  | 389.8  | 375.6  | 367.7  | 368.6  | 373.9  | 376.5  |
| 37.5° | 2275.0 | 1951.6 | 723.0  | 477.3  | 408.3  | 367.7  | 344.7  | 335.0  | 328.8  | 335.0  | 333.2  |
| 40°   | 2413.8 | 2042.6 | 692.9  | 487.9  | 403.9  | 342.1  | 311.1  | 295.2  | 283.7  | 287.3  | 285.5  |
| 42.5° | 2618.0 | 2185.8 | 681.5  | 488.8  | 394.2  | 312.0  | 276.6  | 255.4  | 238.6  | 239.5  | 236.0  |
| 45°   | 2904.4 | 2412.0 | 740.7  | 477.3  | 373.0  | 279.3  | 240.4  | 212.1  | 201.5  | 198.9  | 195.3  |
| 47.5° | 3296.8 | 2741.7 | 877.7  | 453.4  | 342.1  | 247.5  | 205.1  | 181.2  | 173.2  | 168.8  | 166.2  |
| 50°   | 3822.7 | 3165.1 | 1029.7 | 426.9  | 311.1  | 217.4  | 175.9  | 160.9  | 155.6  | 151.1  | 150.3  |
| 52.5° | 4432.5 | 3594.6 | 1154.3 | 400.4  | 280.2  | 190.9  | 157.3  | 148.5  | 144.1  | 140.5  | 139.6  |
| 55°   | 4992.0 | 3890.7 | 1147.2 | 372.1  | 250.1  | 169.7  | 144.1  | 138.8  | 133.5  | 129.9  | 128.2  |
| 57.5° | 5340.3 | 3932.3 | 945.7  | 341.2  | 215.7  | 152.9  | 131.7  | 128.2  | 122.0  | 117.6  | 116.7  |
| 60°   | 5500.2 | 3695.4 | 662.9  | 300.5  | 181.2  | 137.0  | 118.4  | 116.7  | 108.7  | 102.5  | 100.8  |
| 62.5° | 5529.4 | 3255.2 | 441.9  | 250.1  | 151.1  | 122.0  | 105.2  | 102.5  | 91.9   | 81.3   | 76.0   |
| 65°   | 5411.0 | 2625.9 | 305.8  | 195.3  | 129.0  | 106.1  | 90.2   | 84.9   | 73.4   | 62.8   | 59.2   |
| 67.5° | 5036.2 | 1843.7 | 213.0  | 140.5  | 109.6  | 84.0   | 71.6   | 69.8   | 61.0   | 52.1   | 49.5   |
| 70°   | 4349.5 | 1050.9 | 142.3  | 105.2  | 86.6   | 57.5   | 56.6   | 58.3   | 49.5   | 42.4   | 38.9   |
| 72.5° | 3334.8 | 480.8  | 88.4   | 76.9   | 59.2   | 38.9   | 45.1   | 46.0   | 38.0   | 31.8   | 28.3   |
| 75°   | 1963.0 | 205.9  | 55.7   | 49.5   | 30.1   | 25.6   | 32.7   | 33.6   | 25.6   | 20.3   | 17.7   |
| 77.5° | 668.2  | 77.8   | 35.4   | 29.2   | 15.0   | 14.1   | 21.2   | 21.2   | 14.1   | 8.0    | 6.2    |
| 80°   | 152.0  | 29.2   | 17.7   | 11.5   | 7.1    | 6.2    | 7.1    | 6.2    | 3.5    | 0.9    | 0.0    |
| 82.5° | 43.3   | 11.5   | 7.1    | 4.4    | 2.7    | 2.7    | 0.9    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 12.4   | 5.3    | 1.8    | 1.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 5.3    | 0.9    | 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)