

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: P947365

Luminaire Tested: **GALN-SB2D-727-U-T2U-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P947365  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2D-727-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 14426 lumens  
Efficiency: N/A  
Efficacy: 97.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
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

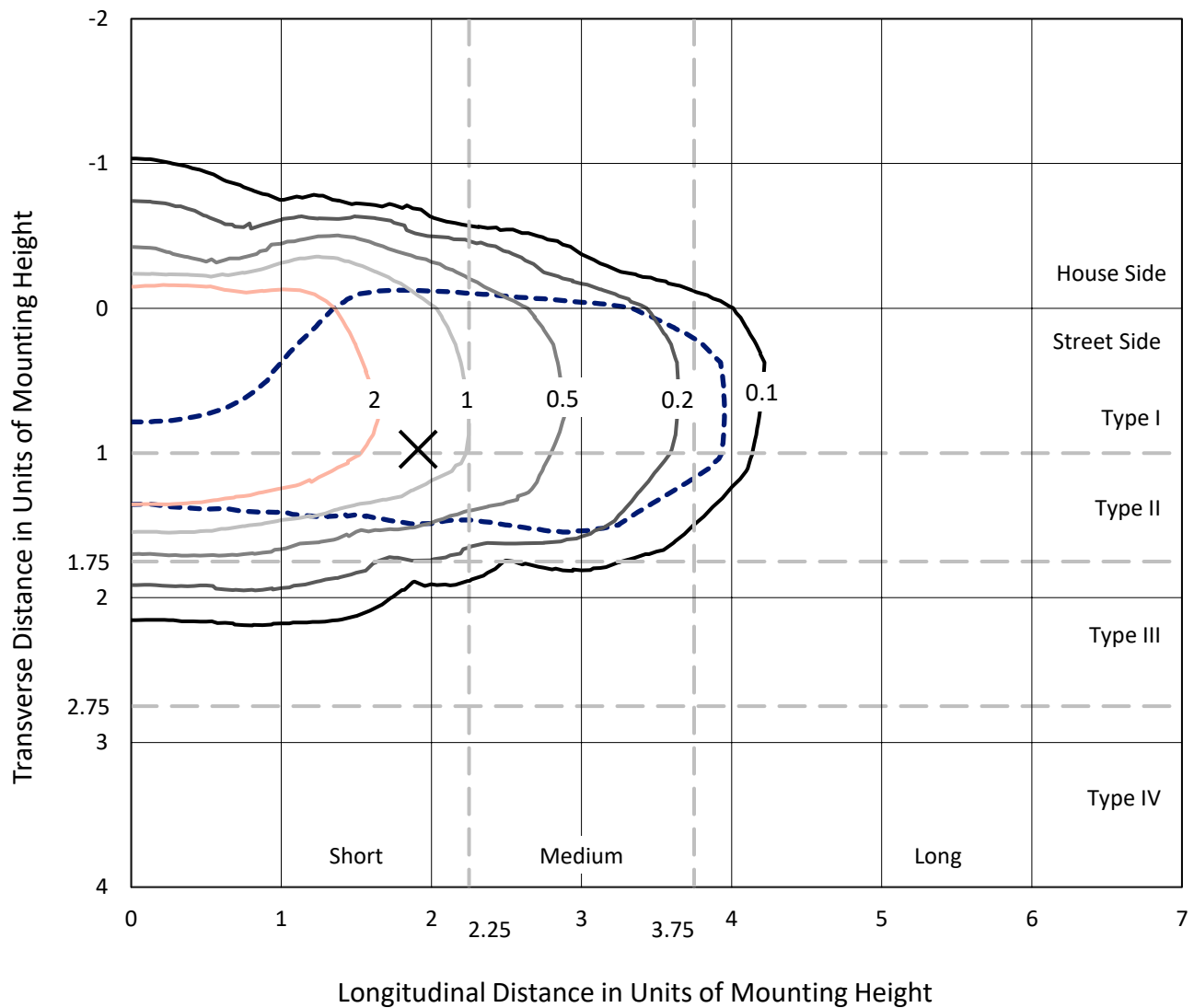


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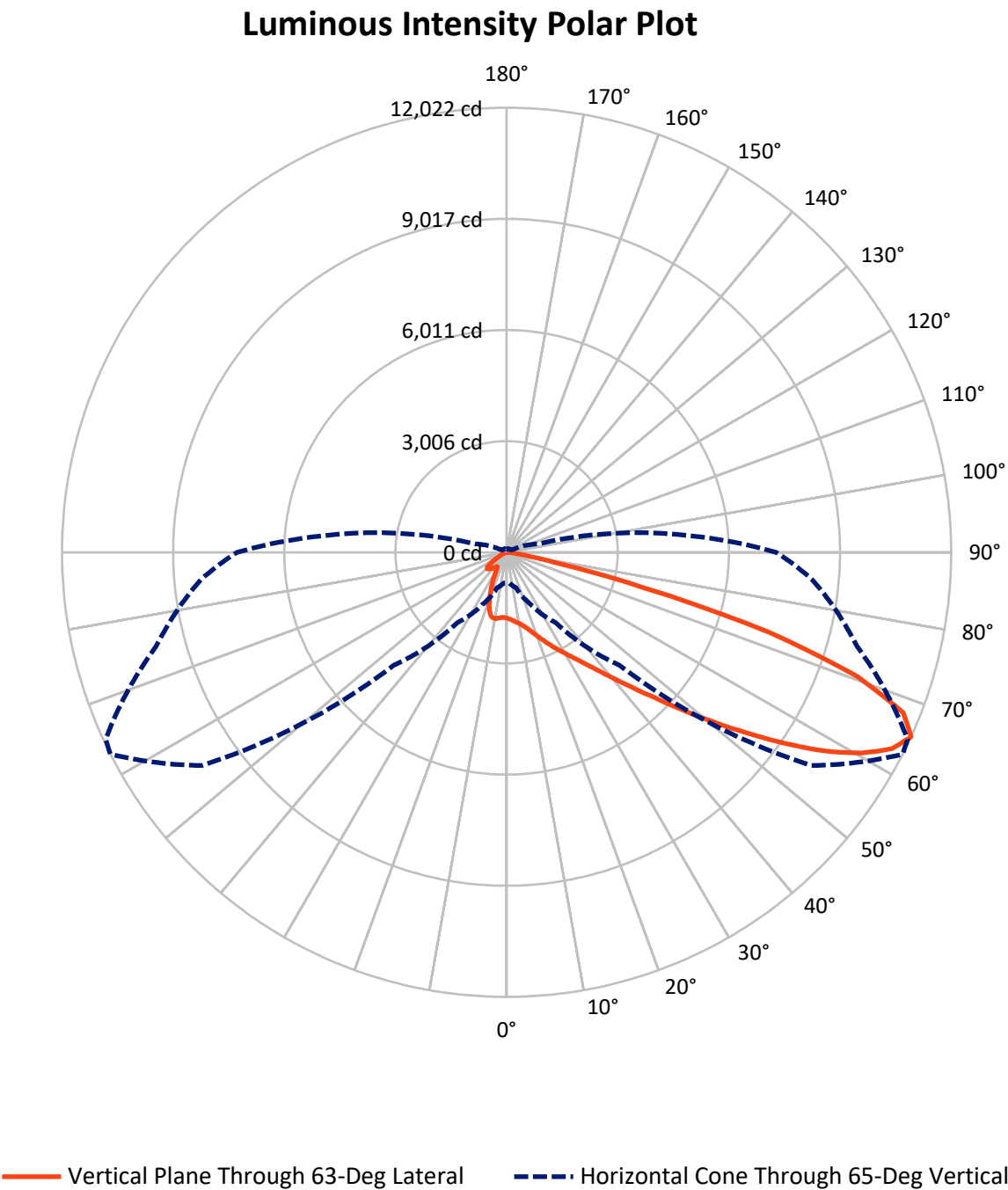
## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
Type II - Short - N/A

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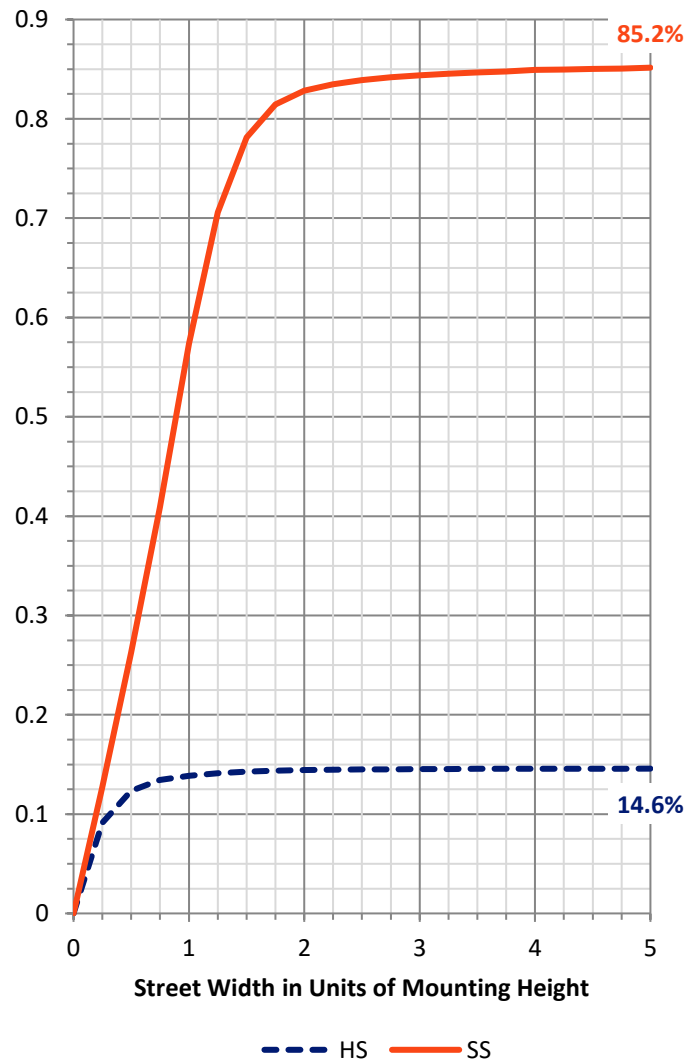
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2120.5   | 0.0    | 2120.5  |
|                    | % Fixture | 14.7     | 0.0    | 14.7    |
| <b>Street Side</b> | Lumens    | 12305.5  | 0.0    | 12305.5 |
|                    | % Fixture | 85.3     | 0.0    | 85.3    |
| <b>Total</b>       | Lumens    | 14426.0  | 0.0    | 14426.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 167.8   | 1.2       |
| 10°-20°   | 465.5   | 3.2       |
| 20°-30°   | 810.5   | 5.6       |
| 30°-40°   | 1460.8  | 10.1      |
| 40°-50°   | 2897.2  | 20.1      |
| 50°-60°   | 3946.4  | 27.4      |
| 60°-70°   | 3150.0  | 21.8      |
| 70°-80°   | 1425.5  | 9.9       |
| 80°-90°   | 102.5   | 0.7       |
| 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°    | 14426.0 | 100.0     |
| 0°-180°   | 14426.0 | 100.0     |

**Coefficient of Utilization**



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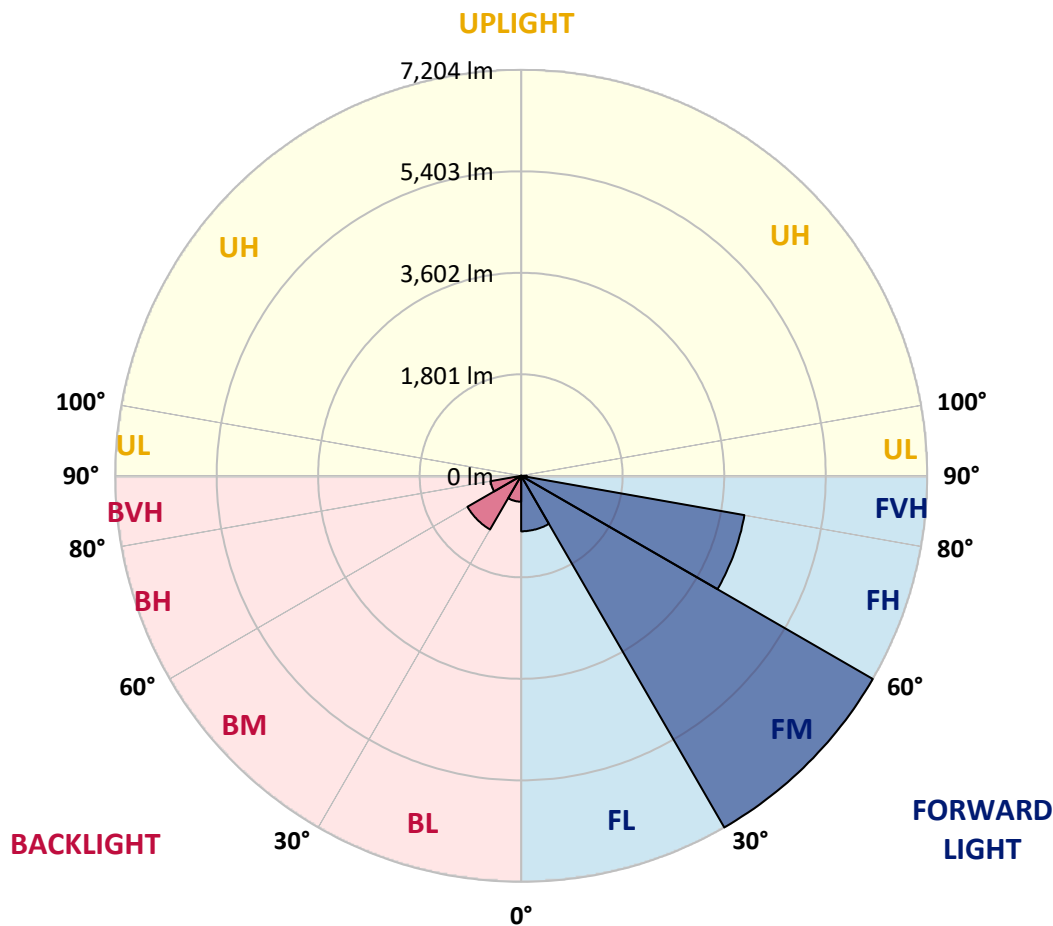
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 984.8  | 6.8       |                         |      |         |
| FM   | (30°-60°)   | 7204.0 | 49.9      |                         |      |         |
| FH   | (60°-80°)   | 4021.9 | 27.9      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 94.9   | 0.7       |                         |      | G1/100  |
| BL   | (0°-30°)    | 458.9  | 3.2       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1100.4 | 7.6       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 553.6  | 3.8       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 7.6    | 0.1       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 55°     | 63°     | 65°     | 75°     | 85°    |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|--------|
| 0°    | 1780.4 | 1780.4 | 1780.4 | 1780.4 | 1780.4 | 1780.4  | 1780.4  | 1780.4  | 1780.4  | 1780.4  | 1780.4 |
| 2.5°  | 1822.1 | 1817.2 | 1824.1 | 1821.1 | 1819.1 | 1815.2  | 1813.2  | 1811.2  | 1807.2  | 1804.3  | 1792.4 |
| 5°    | 1827.1 | 1824.1 | 1831.1 | 1837.0 | 1843.0 | 1848.9  | 1851.9  | 1855.9  | 1851.9  | 1844.0  | 1832.0 |
| 7.5°  | 1785.4 | 1783.4 | 1798.3 | 1816.2 | 1843.0 | 1865.8  | 1890.6  | 1904.5  | 1905.5  | 1902.5  | 1889.6 |
| 10°   | 1782.4 | 1777.5 | 1792.4 | 1814.2 | 1848.9 | 1889.6  | 1933.3  | 1963.1  | 1967.0  | 1979.9  | 1966.0 |
| 12.5° | 1829.1 | 1824.1 | 1844.9 | 1868.8 | 1904.5 | 1947.2  | 2000.8  | 2042.4  | 2048.4  | 2066.3  | 2056.3 |
| 15°   | 1907.5 | 1900.5 | 1924.3 | 1955.1 | 2000.8 | 2049.4  | 2106.0  | 2143.7  | 2148.6  | 2170.5  | 2152.6 |
| 17.5° | 1998.8 | 1991.8 | 2019.6 | 2052.4 | 2102.0 | 2168.5  | 2234.0  | 2275.7  | 2281.6  | 2295.5  | 2262.8 |
| 20°   | 2115.9 | 2107.0 | 2128.8 | 2158.6 | 2211.2 | 2290.6  | 2369.0  | 2428.5  | 2427.5  | 2427.5  | 2373.9 |
| 22.5° | 2251.9 | 2238.0 | 2256.8 | 2280.6 | 2330.3 | 2426.5  | 2530.7  | 2601.2  | 2601.2  | 2573.4  | 2485.1 |
| 25°   | 2397.7 | 2383.8 | 2404.7 | 2426.5 | 2470.2 | 2579.4  | 2701.4  | 2788.8  | 2792.7  | 2745.1  | 2604.2 |
| 27.5° | 2580.3 | 2562.5 | 2578.4 | 2604.2 | 2630.0 | 2741.1  | 2886.0  | 2987.3  | 2989.2  | 2915.8  | 2717.3 |
| 30°   | 2931.7 | 2881.1 | 2831.4 | 2803.6 | 2815.6 | 2925.7  | 3080.5  | 3192.7  | 3202.6  | 3101.4  | 2840.4 |
| 32.5° | 3574.8 | 3564.9 | 3390.2 | 3161.9 | 3042.8 | 3124.2  | 3297.9  | 3432.9  | 3438.8  | 3308.8  | 3000.2 |
| 35°   | 4574.2 | 4562.3 | 4281.4 | 3846.7 | 3458.7 | 3390.2  | 3561.9  | 3721.7  | 3717.7  | 3570.8  | 3207.6 |
| 37.5° | 5767.1 | 5756.2 | 5386.0 | 4804.4 | 4176.2 | 3792.1  | 3902.3  | 4070.0  | 4094.8  | 3902.3  | 3475.5 |
| 40°   | 6786.3 | 6745.6 | 6511.4 | 5950.7 | 5128.9 | 4459.0  | 4386.6  | 4497.7  | 4523.6  | 4295.3  | 3815.9 |
| 42.5° | 7558.4 | 7523.7 | 7404.6 | 7054.3 | 6282.2 | 5445.5  | 4957.2  | 4999.9  | 5028.7  | 4754.8  | 4207.0 |
| 45°   | 7958.4 | 7950.5 | 7998.1 | 7965.3 | 7457.2 | 6656.3  | 5773.0  | 5595.4  | 5606.3  | 5263.9  | 4650.6 |
| 47.5° | 8015.0 | 8011.0 | 8228.3 | 8536.0 | 8467.5 | 8021.9  | 6820.1  | 6337.7  | 6299.0  | 5838.5  | 5132.9 |
| 50°   | 7681.5 | 7673.6 | 8090.4 | 8667.0 | 9142.4 | 9169.2  | 8009.0  | 7174.4  | 7089.0  | 6433.0  | 5636.1 |
| 52.5° | 6616.6 | 6614.6 | 7299.4 | 8259.1 | 9379.6 | 10173.5 | 9184.1  | 8093.4  | 7950.5  | 7062.2  | 6168.0 |
| 55°   | 5091.2 | 5127.9 | 5913.0 | 7047.3 | 8946.9 | 10656.8 | 10239.0 | 9113.6  | 8894.3  | 7695.4  | 6658.3 |
| 57.5° | 3606.5 | 3660.1 | 4436.2 | 5446.5 | 7605.1 | 10371.0 | 10952.6 | 10135.8 | 9899.6  | 8326.6  | 7155.5 |
| 60°   | 1937.2 | 1984.9 | 2762.0 | 3967.8 | 5657.9 | 9305.1  | 11328.7 | 11023.1 | 10799.8 | 8926.0  | 7604.1 |
| 62.5° | 1154.2 | 1170.1 | 1491.6 | 2561.5 | 3826.9 | 7108.9  | 11168.9 | 11698.9 | 11515.3 | 9429.2  | 7994.1 |
| 65°   | 828.7  | 831.7  | 993.4  | 1564.1 | 2323.3 | 4319.1  | 10048.5 | 12022.4 | 11965.9 | 9808.3  | 8282.9 |
| 67.5° | 697.7  | 695.7  | 763.2  | 1039.1 | 1582.9 | 2163.5  | 7701.4  | 11564.9 | 11805.1 | 10048.5 | 8446.7 |
| 70°   | 598.4  | 601.4  | 680.8  | 761.2  | 1189.9 | 1224.7  | 3828.8  | 10069.3 | 10581.4 | 10112.0 | 8436.7 |
| 72.5° | 445.6  | 455.5  | 529.0  | 693.7  | 898.2  | 842.6   | 1321.9  | 7466.1  | 8392.1  | 9527.4  | 7999.1 |
| 75°   | 314.6  | 319.6  | 372.2  | 583.6  | 669.9  | 613.3   | 674.9   | 3859.6  | 5046.6  | 7304.4  | 6547.1 |
| 77.5° | 242.2  | 251.1  | 281.9  | 407.9  | 660.0  | 430.7   | 412.9   | 1335.8  | 2052.4  | 4412.4  | 4488.8 |
| 80°   | 131.0  | 146.9  | 203.5  | 294.8  | 463.5  | 304.7   | 204.4   | 531.9   | 695.7   | 2063.3  | 1730.8 |
| 82.5° | 67.5   | 75.4   | 141.9  | 212.4  | 264.0  | 266.0   | 101.2   | 221.3   | 286.8   | 637.1   | 237.2  |
| 85°   | 26.8   | 32.8   | 95.3   | 117.1  | 136.0  | 131.0   | 45.7    | 89.3    | 103.2   | 176.7   | 72.4   |
| 87.5° | 6.0    | 9.9    | 34.7   | 26.8   | 25.8   | 27.8    | 10.9    | 20.8    | 19.8    | 20.8    | 12.9   |
| 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°    | 1780.4 | 1780.4 | 1780.4 | 1780.4 | 1780.4 | 1780.4 | 1780.4 | 1780.4 | 1780.4 | 1780.4 | 1780.4 |
| 2.5°  | 1791.4 | 1787.4 | 1776.5 | 1764.6 | 1750.7 | 1742.7 | 1737.8 | 1736.8 | 1729.8 | 1724.9 | 1729.8 |
| 5°    | 1821.1 | 1817.2 | 1796.3 | 1771.5 | 1744.7 | 1723.9 | 1704.0 | 1686.2 | 1660.4 | 1655.4 | 1653.4 |
| 7.5°  | 1880.7 | 1869.8 | 1836.0 | 1802.3 | 1751.7 | 1691.1 | 1617.7 | 1533.3 | 1457.9 | 1435.1 | 1424.2 |
| 10°   | 1954.1 | 1939.2 | 1896.6 | 1837.0 | 1724.9 | 1560.1 | 1382.5 | 1217.7 | 1086.7 | 1050.0 | 1036.1 |
| 12.5° | 2037.5 | 2024.6 | 1968.0 | 1857.9 | 1612.7 | 1314.0 | 1042.1 | 837.6  | 710.6  | 678.8  | 669.9  |
| 15°   | 2136.7 | 2117.9 | 2039.5 | 1826.1 | 1412.2 | 998.4  | 715.6  | 594.5  | 548.8  | 542.9  | 536.9  |
| 17.5° | 2241.9 | 2211.2 | 2103.0 | 1712.0 | 1142.3 | 709.6  | 552.8  | 518.1  | 498.2  | 492.3  | 489.3  |
| 20°   | 2338.2 | 2298.5 | 2140.7 | 1539.3 | 853.5  | 552.8  | 495.2  | 472.4  | 454.5  | 447.6  | 443.6  |
| 22.5° | 2434.5 | 2377.9 | 2140.7 | 1304.1 | 640.1  | 490.3  | 454.5  | 433.7  | 412.9  | 403.9  | 399.0  |
| 25°   | 2534.7 | 2459.3 | 2103.0 | 1042.1 | 515.1  | 449.6  | 415.8  | 393.0  | 375.1  | 364.2  | 360.3  |
| 27.5° | 2632.0 | 2527.7 | 2016.6 | 794.0  | 458.5  | 413.8  | 380.1  | 358.3  | 341.4  | 333.5  | 333.5  |
| 30°   | 2724.3 | 2595.2 | 1895.6 | 602.4  | 421.8  | 379.1  | 347.4  | 328.5  | 311.6  | 303.7  | 304.7  |
| 32.5° | 2849.3 | 2680.6 | 1766.5 | 494.2  | 390.0  | 346.4  | 317.6  | 299.7  | 284.8  | 278.9  | 278.9  |
| 35°   | 3023.0 | 2806.6 | 1655.4 | 485.3  | 363.2  | 319.6  | 290.8  | 273.9  | 259.0  | 254.1  | 254.1  |
| 37.5° | 3269.1 | 3010.1 | 1596.8 | 544.9  | 341.4  | 295.7  | 269.0  | 251.1  | 237.2  | 233.2  | 232.2  |
| 40°   | 3572.8 | 3286.0 | 1628.6 | 604.4  | 326.5  | 274.9  | 249.1  | 231.2  | 219.3  | 214.4  | 213.4  |
| 42.5° | 3933.0 | 3626.4 | 1804.3 | 650.0  | 316.6  | 257.0  | 230.2  | 210.4  | 202.5  | 200.5  | 200.5  |
| 45°   | 4346.9 | 4000.5 | 2073.2 | 698.7  | 300.7  | 240.2  | 211.4  | 196.5  | 190.5  | 189.6  | 188.6  |
| 47.5° | 4817.3 | 4411.4 | 2384.8 | 759.2  | 284.8  | 224.3  | 196.5  | 186.6  | 181.6  | 179.6  | 179.6  |
| 50°   | 5283.8 | 4825.3 | 2705.4 | 793.0  | 271.9  | 209.4  | 184.6  | 176.7  | 172.7  | 171.7  | 171.7  |
| 52.5° | 5772.0 | 5251.0 | 2964.4 | 761.2  | 261.0  | 197.5  | 174.7  | 168.7  | 164.7  | 163.8  | 163.8  |
| 55°   | 6237.5 | 5595.4 | 3009.1 | 646.1  | 239.2  | 185.6  | 163.8  | 160.8  | 155.8  | 155.8  | 154.8  |
| 57.5° | 6638.4 | 5768.1 | 2693.5 | 474.4  | 217.3  | 167.7  | 152.8  | 149.9  | 145.9  | 144.9  | 143.9  |
| 60°   | 7006.6 | 5718.5 | 2079.2 | 319.6  | 193.5  | 149.9  | 138.9  | 137.0  | 133.0  | 128.0  | 127.0  |
| 62.5° | 7214.1 | 5500.1 | 1422.2 | 208.4  | 169.7  | 131.0  | 123.1  | 122.1  | 113.1  | 103.2  | 101.2  |
| 65°   | 7292.5 | 5051.5 | 887.2  | 151.8  | 141.9  | 112.1  | 106.2  | 104.2  | 91.3   | 80.4   | 79.4   |
| 67.5° | 7224.0 | 4313.2 | 447.6  | 120.1  | 112.1  | 93.3   | 87.3   | 87.3   | 78.4   | 68.5   | 67.5   |
| 70°   | 6950.1 | 3233.4 | 188.6  | 96.3   | 86.3   | 71.5   | 71.5   | 75.4   | 66.5   | 55.6   | 54.6   |
| 72.5° | 6355.6 | 2175.4 | 100.2  | 73.4   | 64.5   | 50.6   | 58.6   | 61.5   | 52.6   | 41.7   | 41.7   |
| 75°   | 5052.5 | 1326.9 | 69.5   | 54.6   | 40.7   | 35.7   | 44.7   | 46.6   | 35.7   | 27.8   | 26.8   |
| 77.5° | 3455.7 | 762.2  | 46.6   | 34.7   | 25.8   | 20.8   | 30.8   | 28.8   | 18.9   | 12.9   | 13.9   |
| 80°   | 1517.4 | 317.6  | 26.8   | 15.9   | 9.9    | 7.9    | 10.9   | 7.9    | 6.0    | 4.0    | 4.0    |
| 82.5° | 177.6  | 74.4   | 9.9    | 6.0    | 4.0    | 2.0    | 1.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 36.7   | 8.9    | 5.0    | 2.0    | 1.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 6.9    | 2.0    | 1.0    | 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)