

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: P946623

Luminaire Tested: **GALN-SB2B-722-U-SL3**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P946623  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2B-722-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 9092 lumens  
Efficiency: N/A  
Efficacy: 123.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 73.9  
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

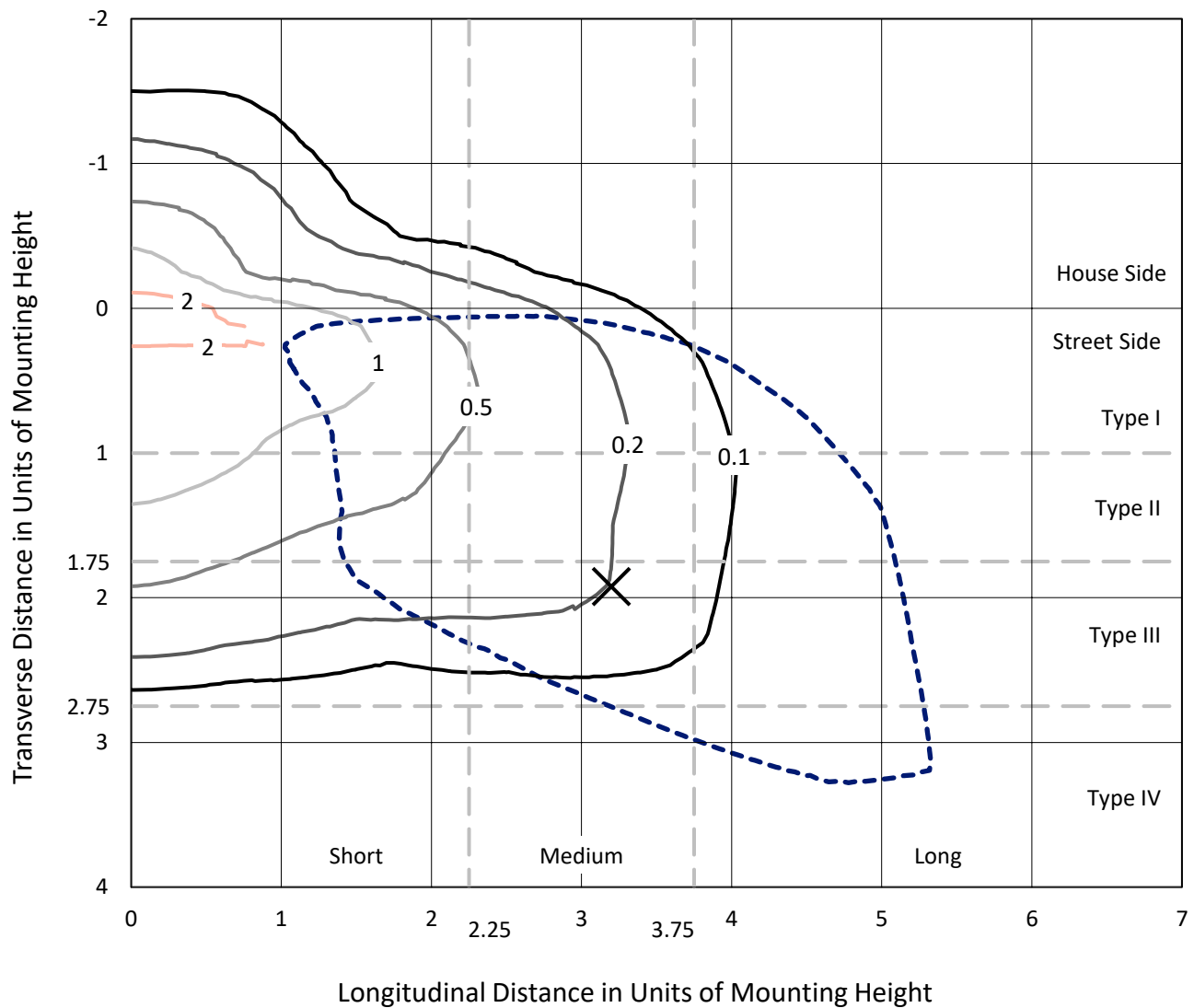


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## Iso-Footcandle Lines of Horizontal Illumination

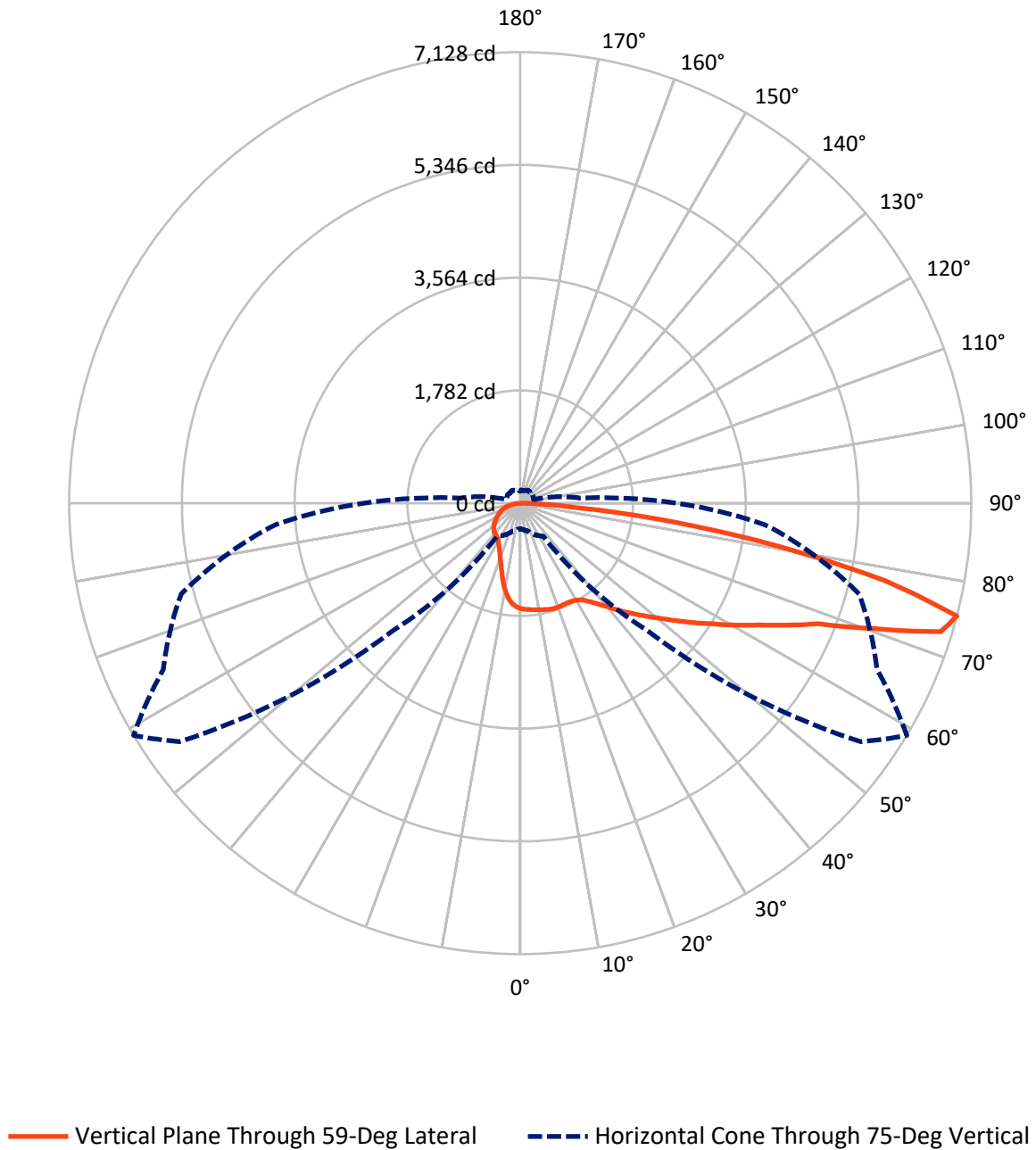
✕ Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc  
Type IV - 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    | 1705.3   | 0.0    | 1705.3 |
|                    | % Fixture | 18.8     | 0.0    | 18.8   |
| <b>Street Side</b> | Lumens    | 7386.7   | 0.0    | 7386.7 |
|                    | % Fixture | 81.2     | 0.0    | 81.2   |
| <b>Total</b>       | Lumens    | 9092.0   | 0.0    | 9092.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 149.6  | 1.6       |
| 10°-20°   | 382.5  | 4.2       |
| 20°-30°   | 581.0  | 6.4       |
| 30°-40°   | 863.6  | 9.5       |
| 40°-50°   | 1284.3 | 14.1      |
| 50°-60°   | 1743.3 | 19.2      |
| 60°-70°   | 2128.2 | 23.4      |
| 70°-80°   | 1670.2 | 18.4      |
| 80°-90°   | 289.3  | 3.2       |
| 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°    | 9092.0 | 100.0     |
| 0°-180°   | 9092.0 | 100.0     |

**Coefficient of Utilization**



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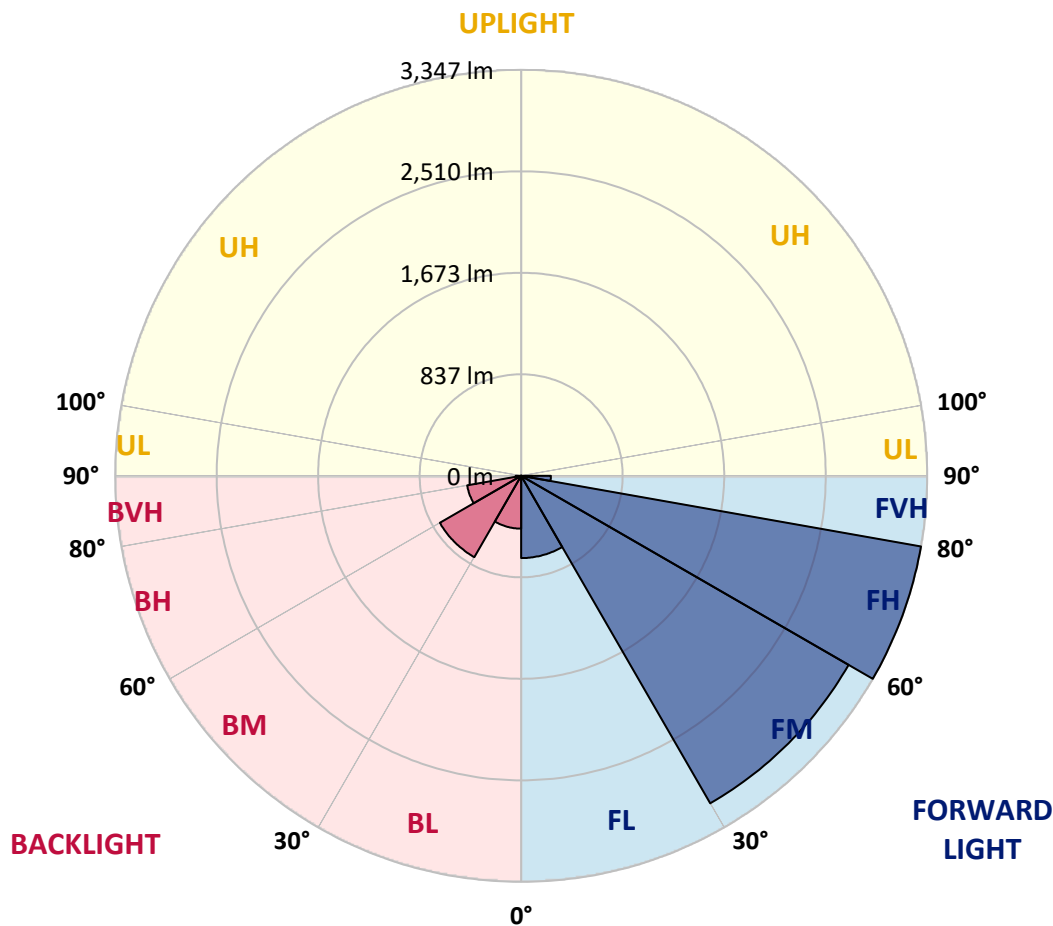
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 677.9  | 7.5       |                         |      |         |
| FM   | (30°-60°)   | 3117.1 | 34.3      |                         |      |         |
| FH   | (60°-80°)   | 3346.7 | 36.8      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 245.0  | 2.7       |                         |      | G3/500  |
| BL   | (0°-30°)    | 435.2  | 4.8       | B1/500                  |      |         |
| BM   | (30°-60°)   | 774.0  | 8.5       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 451.8  | 5.0       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 44.3   | 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-G3**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 59°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1668.8 | 1668.8 | 1668.8 | 1668.8 | 1668.8 | 1668.8 | 1668.8 | 1668.8 | 1668.8 | 1668.8 | 1668.8 |
| 2.5°  | 1683.0 | 1677.1 | 1683.0 | 1680.6 | 1679.6 | 1677.6 | 1678.1 | 1681.5 | 1679.6 | 1682.0 | 1673.7 |
| 5°    | 1671.8 | 1668.3 | 1674.2 | 1672.7 | 1679.1 | 1680.1 | 1686.4 | 1690.3 | 1692.8 | 1693.3 | 1686.9 |
| 7.5°  | 1653.2 | 1649.7 | 1658.1 | 1664.9 | 1678.6 | 1682.5 | 1695.7 | 1702.1 | 1705.5 | 1711.4 | 1702.1 |
| 10°   | 1585.2 | 1583.7 | 1604.3 | 1630.2 | 1662.5 | 1682.5 | 1702.6 | 1713.3 | 1718.7 | 1734.4 | 1723.6 |
| 12.5° | 1464.9 | 1466.8 | 1493.7 | 1543.6 | 1608.2 | 1672.7 | 1710.4 | 1726.0 | 1734.4 | 1753.9 | 1749.0 |
| 15°   | 1349.9 | 1349.4 | 1378.8 | 1432.1 | 1522.6 | 1629.7 | 1714.3 | 1741.2 | 1755.4 | 1784.2 | 1780.3 |
| 17.5° | 1283.4 | 1281.4 | 1302.0 | 1342.6 | 1426.7 | 1563.7 | 1704.5 | 1749.5 | 1779.8 | 1816.0 | 1812.6 |
| 20°   | 1271.2 | 1267.3 | 1278.0 | 1298.1 | 1357.7 | 1491.3 | 1679.1 | 1749.5 | 1799.4 | 1846.4 | 1844.4 |
| 22.5° | 1315.7 | 1309.3 | 1304.9 | 1302.5 | 1328.9 | 1431.6 | 1650.2 | 1743.6 | 1828.3 | 1889.9 | 1886.5 |
| 25°   | 1405.2 | 1395.4 | 1372.9 | 1350.9 | 1343.1 | 1404.7 | 1624.8 | 1742.2 | 1871.3 | 1948.6 | 1935.9 |
| 27.5° | 1550.0 | 1537.7 | 1492.3 | 1439.4 | 1392.0 | 1418.4 | 1613.5 | 1751.0 | 1918.7 | 2010.7 | 1985.3 |
| 30°   | 1729.5 | 1716.3 | 1659.0 | 1577.8 | 1492.7 | 1469.3 | 1627.7 | 1776.9 | 1979.4 | 2093.4 | 2043.5 |
| 32.5° | 1890.4 | 1875.7 | 1826.8 | 1744.1 | 1629.2 | 1557.3 | 1672.7 | 1826.3 | 2074.8 | 2208.3 | 2131.0 |
| 35°   | 2033.2 | 2016.1 | 1972.1 | 1895.8 | 1796.5 | 1681.0 | 1753.9 | 1913.9 | 2210.3 | 2395.1 | 2249.9 |
| 37.5° | 2173.1 | 2153.0 | 2105.1 | 2024.4 | 1954.9 | 1845.9 | 1865.9 | 2026.3 | 2390.2 | 2622.1 | 2407.4 |
| 40°   | 2329.6 | 2300.7 | 2242.5 | 2162.8 | 2095.3 | 2039.1 | 2013.1 | 2164.3 | 2573.2 | 2875.4 | 2604.0 |
| 42.5° | 2481.2 | 2453.8 | 2384.4 | 2316.4 | 2231.8 | 2215.6 | 2183.8 | 2325.7 | 2773.2 | 3153.7 | 2803.5 |
| 45°   | 2644.6 | 2611.8 | 2527.7 | 2441.6 | 2388.3 | 2333.0 | 2349.2 | 2487.1 | 2969.3 | 3437.4 | 3012.9 |
| 47.5° | 2797.7 | 2761.0 | 2661.7 | 2565.8 | 2536.5 | 2431.8 | 2500.8 | 2664.6 | 3173.3 | 3725.0 | 3220.2 |
| 50°   | 2880.3 | 2844.1 | 2761.5 | 2674.9 | 2651.9 | 2553.6 | 2665.1 | 2859.8 | 3387.0 | 4011.6 | 3419.3 |
| 52.5° | 2949.3 | 2910.2 | 2802.1 | 2754.1 | 2747.3 | 2686.1 | 2867.6 | 3082.8 | 3600.8 | 4265.0 | 3611.5 |
| 55°   | 3022.7 | 2979.1 | 2841.2 | 2798.2 | 2829.5 | 2834.8 | 3107.8 | 3335.7 | 3826.7 | 4512.0 | 3793.0 |
| 57.5° | 3107.3 | 3052.0 | 2878.9 | 2835.3 | 2909.7 | 3009.0 | 3383.6 | 3597.8 | 4048.8 | 4740.9 | 3954.4 |
| 60°   | 3187.0 | 3131.2 | 2951.2 | 2894.5 | 2996.2 | 3211.0 | 3700.1 | 3915.3 | 4300.2 | 4944.8 | 4107.0 |
| 62.5° | 3202.6 | 3156.7 | 3009.0 | 3008.5 | 3113.6 | 3446.7 | 4074.7 | 4235.6 | 4519.8 | 5146.3 | 4243.9 |
| 65°   | 2931.7 | 2902.8 | 2815.3 | 3004.1 | 3281.9 | 3786.1 | 4491.9 | 4645.5 | 4799.1 | 5322.4 | 4364.3 |
| 67.5° | 2231.3 | 2235.2 | 2228.8 | 2593.2 | 3145.9 | 4273.8 | 5096.0 | 5084.2 | 5143.9 | 5520.0 | 4502.7 |
| 70°   | 1020.3 | 1043.3 | 1192.9 | 1790.1 | 2520.3 | 4330.0 | 6094.7 | 5942.6 | 5576.7 | 5775.8 | 4622.5 |
| 72.5° | 551.2  | 568.8  | 630.0  | 867.2  | 1515.2 | 3849.7 | 6841.1 | 6949.2 | 6152.4 | 5948.0 | 4490.9 |
| 75°   | 404.5  | 414.3  | 456.8  | 551.2  | 636.3  | 2861.2 | 6573.5 | 7128.2 | 6224.3 | 5546.4 | 3878.1 |
| 77.5° | 302.8  | 307.2  | 341.9  | 436.8  | 325.7  | 1508.4 | 5252.5 | 5903.5 | 5328.3 | 4557.0 | 2864.7 |
| 80°   | 219.6  | 224.5  | 250.4  | 327.7  | 228.4  | 551.7  | 3606.6 | 4143.7 | 3649.2 | 2904.8 | 1427.7 |
| 82.5° | 151.6  | 153.6  | 164.8  | 223.0  | 159.4  | 214.2  | 2046.4 | 2429.9 | 2037.1 | 1019.3 | 385.4  |
| 85°   | 91.5   | 93.9   | 98.8   | 130.1  | 90.5   | 101.7  | 883.3  | 913.6  | 608.9  | 243.6  | 119.8  |
| 87.5° | 37.7   | 40.1   | 44.0   | 54.8   | 35.7   | 28.4   | 145.8  | 182.9  | 114.0  | 71.4   | 37.2   |
| 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°    | 1668.8 | 1668.8 | 1668.8 | 1668.8 | 1668.8 | 1668.8 | 1668.8 | 1668.8 | 1668.8 | 1668.8 | 1668.8 |
| 2.5°  | 1671.3 | 1667.8 | 1658.5 | 1645.8 | 1634.1 | 1619.4 | 1613.1 | 1607.7 | 1602.8 | 1593.5 | 1589.1 |
| 5°    | 1681.5 | 1672.2 | 1647.3 | 1615.0 | 1578.3 | 1538.2 | 1499.1 | 1472.2 | 1449.2 | 1432.1 | 1417.9 |
| 7.5°  | 1697.2 | 1679.6 | 1634.1 | 1568.1 | 1483.9 | 1397.9 | 1320.1 | 1264.8 | 1223.2 | 1208.1 | 1181.7 |
| 10°   | 1713.3 | 1692.3 | 1613.1 | 1496.7 | 1351.4 | 1218.8 | 1115.6 | 1058.9 | 1025.6 | 1014.9 | 998.3  |
| 12.5° | 1732.4 | 1701.6 | 1580.3 | 1397.4 | 1203.2 | 1057.9 | 967.9  | 934.7  | 917.6  | 911.7  | 913.2  |
| 15°   | 1760.3 | 1709.4 | 1530.9 | 1273.1 | 1061.8 | 940.5  | 882.3  | 859.4  | 850.5  | 850.1  | 852.0  |
| 17.5° | 1781.3 | 1710.9 | 1454.1 | 1140.1 | 953.3  | 869.6  | 821.7  | 812.9  | 818.8  | 827.6  | 831.0  |
| 20°   | 1804.8 | 1697.7 | 1353.3 | 1018.8 | 877.0  | 807.5  | 787.5  | 793.3  | 807.5  | 820.2  | 824.6  |
| 22.5° | 1821.4 | 1673.7 | 1231.6 | 924.4  | 810.9  | 771.8  | 770.8  | 783.1  | 790.9  | 797.2  | 800.7  |
| 25°   | 1836.1 | 1633.1 | 1102.4 | 845.2  | 756.6  | 750.3  | 761.0  | 757.1  | 751.7  | 757.1  | 760.6  |
| 27.5° | 1846.8 | 1569.0 | 987.0  | 775.7  | 718.5  | 735.6  | 729.3  | 720.4  | 720.0  | 722.9  | 727.8  |
| 30°   | 1843.4 | 1483.4 | 892.1  | 709.7  | 691.6  | 708.2  | 693.1  | 691.6  | 690.1  | 691.6  | 697.0  |
| 32.5° | 1843.4 | 1386.1 | 819.2  | 664.2  | 674.5  | 668.1  | 666.6  | 663.2  | 657.4  | 656.9  | 663.2  |
| 35°   | 1853.7 | 1288.8 | 756.6  | 639.7  | 660.3  | 645.1  | 646.1  | 637.8  | 625.6  | 619.7  | 625.6  |
| 37.5° | 1874.7 | 1210.5 | 694.5  | 628.0  | 635.3  | 634.9  | 630.9  | 616.8  | 595.2  | 576.7  | 583.0  |
| 40°   | 1925.6 | 1187.5 | 652.0  | 622.6  | 623.6  | 629.5  | 619.2  | 591.8  | 542.9  | 512.6  | 516.5  |
| 42.5° | 2005.3 | 1226.2 | 642.7  | 609.4  | 615.8  | 621.6  | 601.6  | 538.0  | 503.3  | 485.2  | 485.2  |
| 45°   | 2106.6 | 1293.7 | 662.7  | 590.3  | 597.2  | 607.5  | 547.8  | 517.5  | 501.8  | 502.3  | 504.8  |
| 47.5° | 2234.7 | 1364.6 | 699.9  | 573.7  | 570.3  | 576.2  | 512.1  | 493.5  | 472.0  | 477.4  | 491.1  |
| 50°   | 2382.9 | 1436.5 | 735.1  | 551.2  | 540.5  | 521.4  | 489.1  | 471.5  | 444.1  | 431.4  | 434.8  |
| 52.5° | 2543.3 | 1505.9 | 749.3  | 523.8  | 508.2  | 486.2  | 473.5  | 451.9  | 418.7  | 397.6  | 397.2  |
| 55°   | 2695.4 | 1569.0 | 733.7  | 491.1  | 475.9  | 458.8  | 456.8  | 443.6  | 407.9  | 378.6  | 378.6  |
| 57.5° | 2839.2 | 1621.9 | 694.5  | 457.8  | 443.1  | 432.9  | 446.1  | 439.7  | 394.7  | 357.0  | 355.1  |
| 60°   | 2961.0 | 1658.1 | 637.8  | 424.1  | 413.8  | 408.4  | 428.5  | 426.5  | 376.1  | 334.1  | 332.6  |
| 62.5° | 3057.9 | 1672.2 | 575.2  | 391.8  | 389.3  | 379.5  | 404.0  | 404.0  | 352.6  | 311.6  | 310.1  |
| 65°   | 3133.7 | 1658.5 | 511.6  | 360.0  | 364.9  | 350.2  | 374.2  | 371.2  | 327.7  | 291.5  | 289.5  |
| 67.5° | 3200.7 | 1613.5 | 441.2  | 328.7  | 339.9  | 321.3  | 342.9  | 336.0  | 300.3  | 271.5  | 269.5  |
| 70°   | 3230.5 | 1508.9 | 361.0  | 297.4  | 311.1  | 293.0  | 311.6  | 298.8  | 269.5  | 249.9  | 246.0  |
| 72.5° | 2990.9 | 1254.1 | 284.2  | 264.6  | 276.3  | 261.7  | 277.8  | 263.1  | 236.2  | 227.4  | 220.1  |
| 75°   | 2474.4 | 941.0  | 218.6  | 228.9  | 237.7  | 226.5  | 237.2  | 226.5  | 202.0  | 208.4  | 190.3  |
| 77.5° | 1797.0 | 635.3  | 167.3  | 191.2  | 195.2  | 189.3  | 198.6  | 186.3  | 164.3  | 162.9  | 155.5  |
| 80°   | 893.6  | 372.2  | 131.1  | 151.1  | 149.7  | 145.8  | 156.5  | 150.6  | 132.1  | 139.9  | 138.4  |
| 82.5° | 258.7  | 159.4  | 95.4   | 106.1  | 103.2  | 104.2  | 112.0  | 114.9  | 172.2  | 170.7  | 174.6  |
| 85°   | 81.2   | 62.6   | 57.2   | 59.2   | 56.2   | 57.7   | 66.0   | 131.1  | 121.3  | 70.9   | 76.8   |
| 87.5° | 21.0   | 21.5   | 14.2   | 15.2   | 15.7   | 18.6   | 21.0   | 79.7   | 38.1   | 24.9   | 26.4   |
| 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)