

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: P945907

Luminaire Tested: **GALN-SB1D-722-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945907
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
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-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8358 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

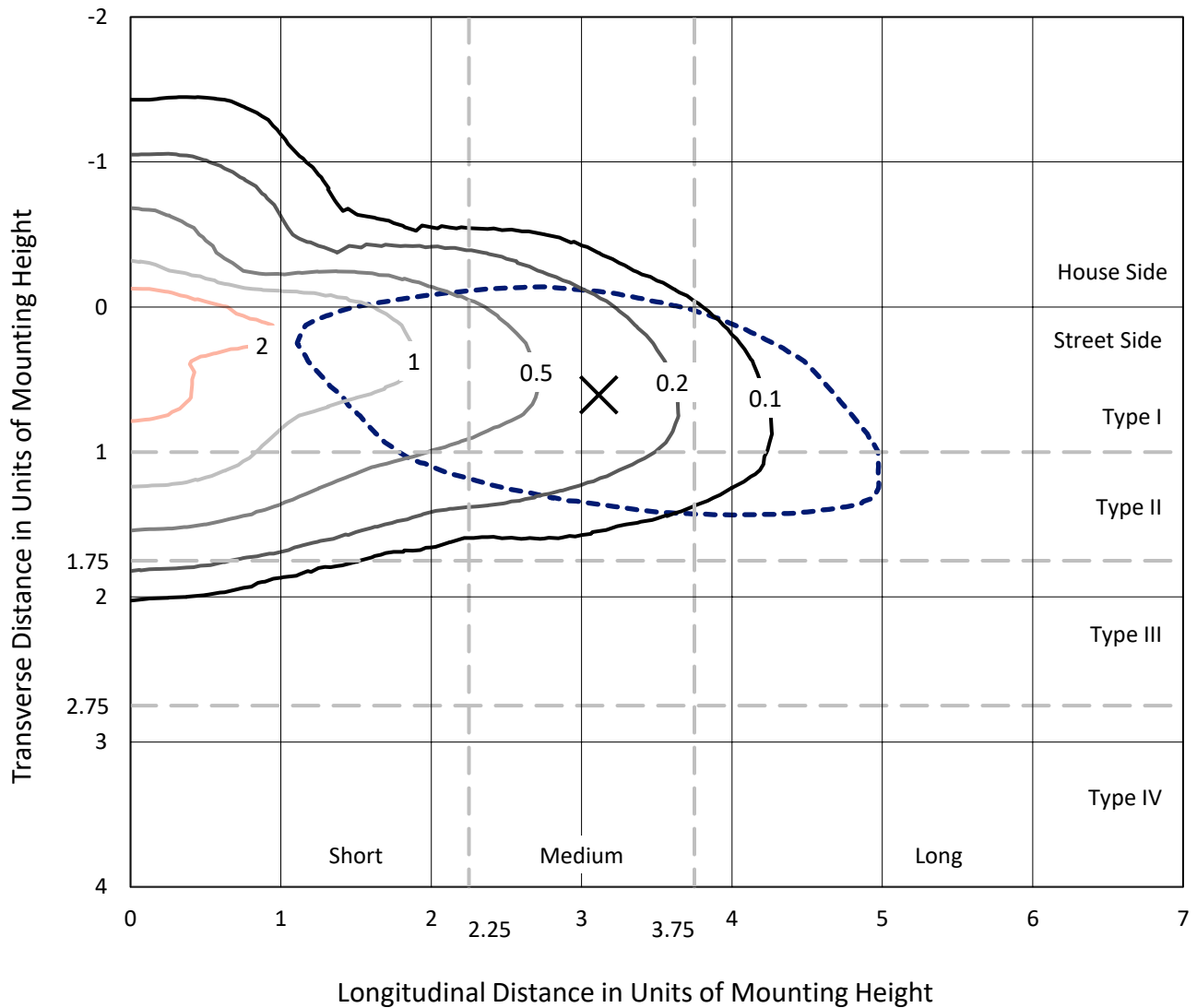
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

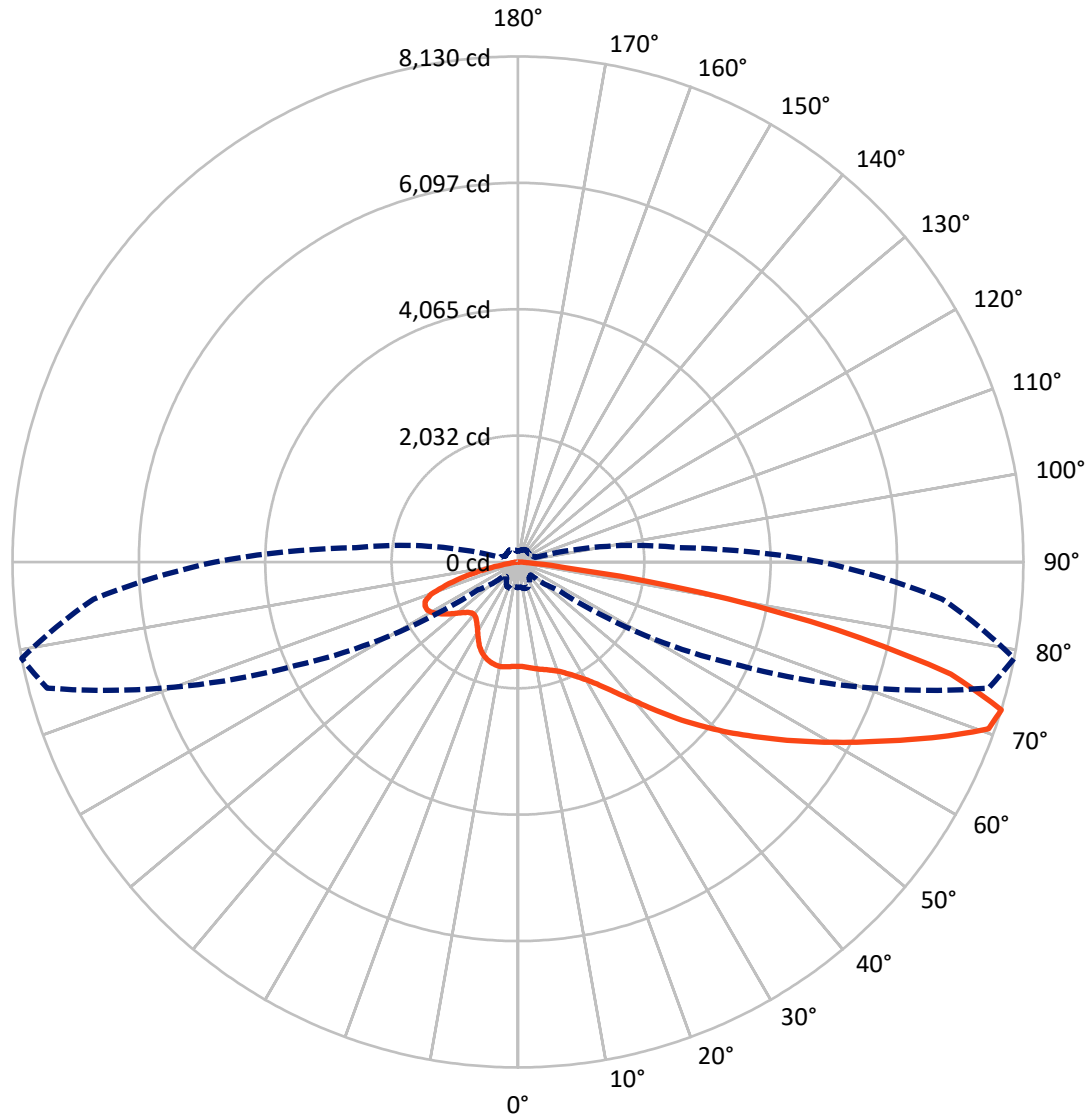
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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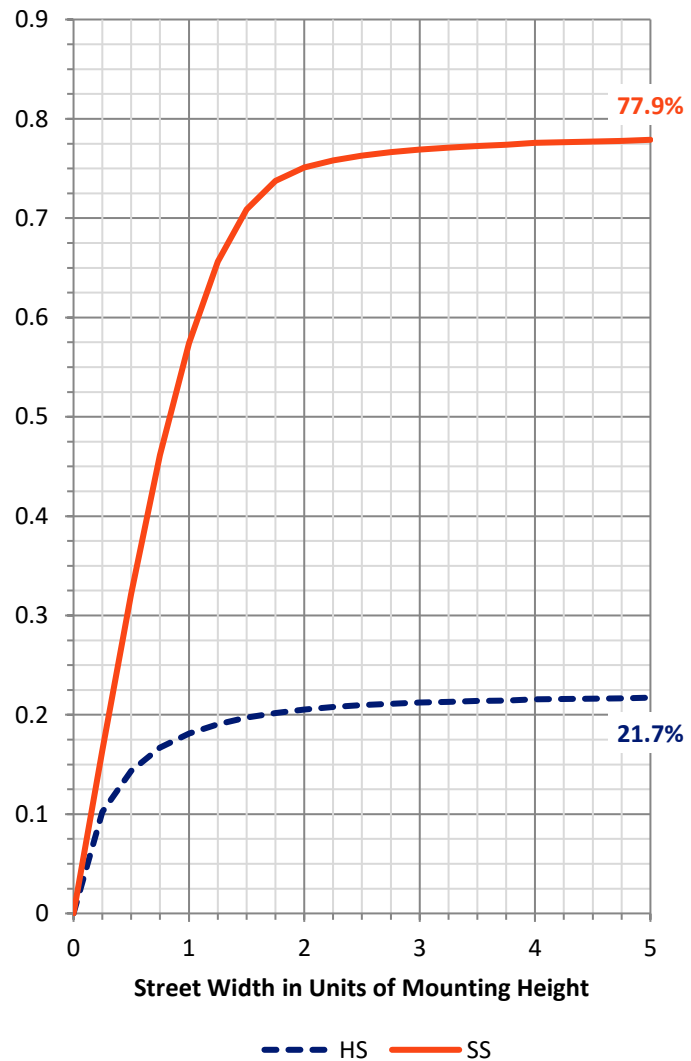
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1839.2 | 0.0 | 1839.2 |
| | % Fixture | 22.0 | 0.0 | 22.0 |
| Street Side | Lumens | 6518.8 | 0.0 | 6518.8 |
| | % Fixture | 78.0 | 0.0 | 78.0 |
| Total | Lumens | 8358.0 | 0.0 | 8358.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 152.3 | 1.8 |
| 10°-20° | 398.2 | 4.8 |
| 20°-30° | 642.5 | 7.7 |
| 30°-40° | 964.3 | 11.5 |
| 40°-50° | 1367.9 | 16.4 |
| 50°-60° | 1727.5 | 20.7 |
| 60°-70° | 1754.5 | 21.0 |
| 70°-80° | 1195.8 | 14.3 |
| 80°-90° | 155.1 | 1.9 |
| 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° | 8358.0 | 100.0 |
| 0°-180° | 8358.0 | 100.0 |



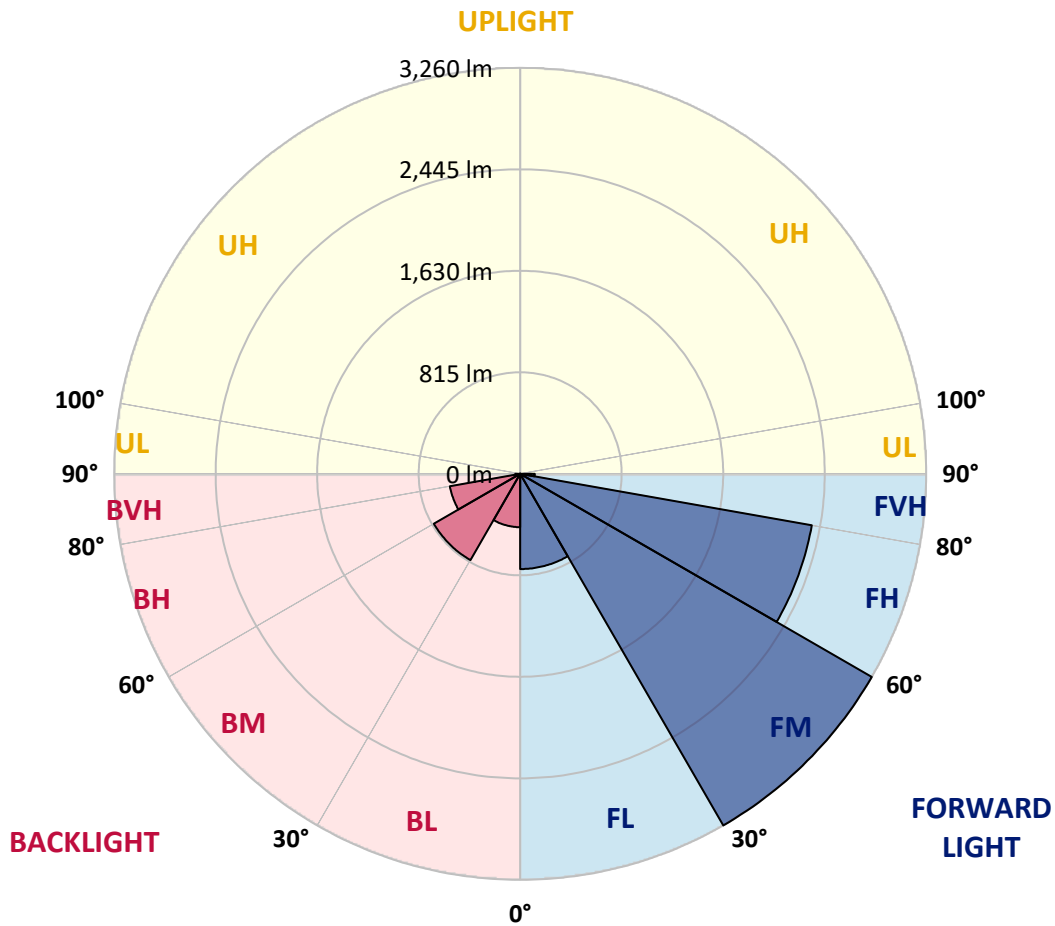
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 764.6 | 9.1 | | | |
| FM (30°-60°) | 3259.8 | 39.0 | | | |
| FH (60°-80°) | 2377.6 | 28.4 | | | G2/5000 |
| FVH (80°-90°) | 116.9 | 1.4 | | | G2/225 |
| BL (0°-30°) | 428.4 | 5.1 | B1/500 | | |
| BM (30°-60°) | 799.9 | 9.6 | B1/1000 | | |
| BH (60°-80°) | 572.7 | 6.9 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 38.3 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 79° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1677.8 | 1677.8 | 1677.8 | 1677.8 | 1677.8 | 1677.8 | 1677.8 | 1677.8 | 1677.8 | 1677.8 | 1677.8 |
| 2.5° | 1678.7 | 1670.7 | 1675.6 | 1673.8 | 1676.0 | 1678.7 | 1679.6 | 1680.9 | 1685.3 | 1684.9 | 1684.4 |
| 5° | 1675.1 | 1667.2 | 1673.8 | 1671.6 | 1677.3 | 1683.5 | 1688.8 | 1693.7 | 1700.8 | 1703.9 | 1699.5 |
| 7.5° | 1667.6 | 1662.3 | 1668.9 | 1675.6 | 1686.2 | 1695.5 | 1703.0 | 1714.0 | 1724.2 | 1726.0 | 1729.1 |
| 10° | 1623.9 | 1619.9 | 1635.3 | 1652.6 | 1681.8 | 1707.0 | 1723.3 | 1736.1 | 1747.2 | 1749.0 | 1753.4 |
| 12.5° | 1578.3 | 1573.5 | 1590.7 | 1614.1 | 1661.4 | 1707.0 | 1741.5 | 1758.3 | 1768.0 | 1773.7 | 1780.4 |
| 15° | 1570.8 | 1566.8 | 1576.5 | 1596.9 | 1636.2 | 1695.0 | 1753.8 | 1784.8 | 1793.2 | 1799.8 | 1802.5 |
| 17.5° | 1607.1 | 1599.5 | 1603.5 | 1610.6 | 1633.6 | 1684.0 | 1763.6 | 1814.8 | 1827.7 | 1834.7 | 1834.7 |
| 20° | 1691.1 | 1680.4 | 1674.3 | 1660.1 | 1656.1 | 1685.7 | 1762.7 | 1851.1 | 1867.9 | 1876.7 | 1878.9 |
| 22.5° | 1802.9 | 1795.8 | 1782.6 | 1746.8 | 1707.9 | 1707.4 | 1779.5 | 1897.5 | 1928.9 | 1937.3 | 1932.0 |
| 25° | 1938.2 | 1927.6 | 1910.8 | 1862.1 | 1787.4 | 1750.3 | 1807.8 | 1956.8 | 2009.4 | 2011.6 | 1996.1 |
| 27.5° | 2093.8 | 2077.9 | 2054.9 | 1990.8 | 1890.0 | 1817.5 | 1851.1 | 2024.8 | 2101.8 | 2100.9 | 2069.1 |
| 30° | 2257.8 | 2241.9 | 2217.6 | 2139.8 | 2012.9 | 1908.1 | 1911.2 | 2098.2 | 2211.4 | 2206.5 | 2152.2 |
| 32.5° | 2377.6 | 2365.7 | 2360.8 | 2300.7 | 2154.4 | 2015.1 | 1980.2 | 2179.6 | 2346.7 | 2342.3 | 2266.2 |
| 35° | 2469.6 | 2454.1 | 2459.9 | 2429.4 | 2308.7 | 2134.9 | 2064.6 | 2276.4 | 2511.2 | 2510.7 | 2416.1 |
| 37.5° | 2560.7 | 2547.0 | 2551.8 | 2531.5 | 2451.5 | 2287.0 | 2167.6 | 2394.9 | 2715.0 | 2724.7 | 2597.4 |
| 40° | 2643.8 | 2629.2 | 2648.7 | 2629.6 | 2562.4 | 2448.8 | 2284.8 | 2528.8 | 2951.1 | 2969.6 | 2816.7 |
| 42.5° | 2693.7 | 2682.3 | 2714.5 | 2715.0 | 2658.8 | 2585.4 | 2413.5 | 2676.5 | 3224.3 | 3265.8 | 3086.3 |
| 45° | 2711.0 | 2707.0 | 2755.6 | 2765.8 | 2744.1 | 2664.6 | 2529.3 | 2837.4 | 3518.7 | 3593.0 | 3393.6 |
| 47.5° | 2692.4 | 2684.9 | 2752.1 | 2789.7 | 2806.9 | 2701.7 | 2625.2 | 3011.6 | 3819.3 | 3928.1 | 3728.7 |
| 50° | 2598.7 | 2584.1 | 2684.0 | 2763.2 | 2824.6 | 2726.0 | 2722.0 | 3212.8 | 4161.1 | 4280.0 | 4065.6 |
| 52.5° | 2430.3 | 2419.2 | 2532.8 | 2670.3 | 2785.7 | 2738.0 | 2830.8 | 3432.5 | 4485.6 | 4639.5 | 4410.9 |
| 55° | 2214.9 | 2200.4 | 2325.5 | 2505.0 | 2688.9 | 2734.0 | 2939.6 | 3678.3 | 4868.5 | 5024.5 | 4767.7 |
| 57.5° | 1873.6 | 1844.5 | 2002.7 | 2214.9 | 2531.1 | 2729.1 | 3052.7 | 3922.8 | 5257.5 | 5444.5 | 5148.3 |
| 60° | 1375.8 | 1332.5 | 1526.6 | 1778.1 | 2222.5 | 2681.8 | 3192.9 | 4196.9 | 5724.4 | 5892.8 | 5563.9 |
| 62.5° | 801.1 | 775.9 | 902.8 | 1137.5 | 1675.1 | 2403.3 | 3271.6 | 4515.7 | 6183.3 | 6360.1 | 5972.4 |
| 65° | 622.0 | 615.0 | 626.0 | 644.1 | 932.4 | 1799.4 | 3028.9 | 4826.5 | 6766.9 | 6890.7 | 6398.1 |
| 67.5° | 569.0 | 563.7 | 568.5 | 534.5 | 473.1 | 1002.3 | 2396.2 | 4905.2 | 7392.0 | 7467.2 | 6770.8 |
| 70° | 505.8 | 499.6 | 515.5 | 486.3 | 372.3 | 455.8 | 1548.3 | 4619.6 | 7889.4 | 8030.4 | 7054.2 |
| 72.5° | 412.0 | 405.0 | 442.1 | 428.8 | 313.5 | 292.7 | 777.7 | 3940.9 | 7837.2 | 8129.9 | 6851.3 |
| 75° | 316.5 | 312.6 | 356.8 | 367.8 | 255.5 | 230.3 | 373.1 | 2929.4 | 6896.8 | 7191.7 | 5904.8 |
| 77.5° | 245.8 | 242.7 | 265.3 | 305.5 | 206.0 | 178.6 | 229.5 | 1858.2 | 5197.4 | 5249.1 | 4069.1 |
| 80° | 184.4 | 175.5 | 196.3 | 236.5 | 160.5 | 130.4 | 155.6 | 1083.6 | 3285.3 | 2978.0 | 1771.1 |
| 82.5° | 115.4 | 111.0 | 128.2 | 157.8 | 113.2 | 89.7 | 101.2 | 598.6 | 1316.6 | 775.5 | 341.7 |
| 85° | 65.9 | 64.1 | 69.9 | 90.2 | 61.5 | 51.7 | 57.9 | 264.4 | 240.5 | 165.3 | 103.0 |
| 87.5° | 26.5 | 25.6 | 31.8 | 40.2 | 22.5 | 19.0 | 20.3 | 63.7 | 53.1 | 49.1 | 34.0 |
| 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° | 1677.8 | 1677.8 | 1677.8 | 1677.8 | 1677.8 | 1677.8 | 1677.8 | 1677.8 | 1677.8 | 1677.8 | 1677.8 |
| 2.5° | 1682.7 | 1682.7 | 1676.5 | 1666.7 | 1655.7 | 1648.6 | 1637.1 | 1634.0 | 1622.1 | 1618.5 | 1624.3 |
| 5° | 1703.0 | 1699.5 | 1680.4 | 1653.0 | 1615.5 | 1581.0 | 1542.9 | 1519.1 | 1485.5 | 1473.5 | 1482.4 |
| 7.5° | 1728.6 | 1718.9 | 1686.2 | 1626.1 | 1547.4 | 1470.0 | 1389.5 | 1328.5 | 1270.2 | 1249.4 | 1252.0 |
| 10° | 1752.1 | 1738.4 | 1682.7 | 1577.4 | 1441.3 | 1307.3 | 1179.1 | 1089.3 | 1021.3 | 993.4 | 999.6 |
| 12.5° | 1775.5 | 1750.3 | 1659.2 | 1496.5 | 1290.5 | 1108.8 | 972.2 | 902.3 | 860.3 | 826.7 | 837.8 |
| 15° | 1797.6 | 1762.2 | 1623.0 | 1388.2 | 1125.2 | 940.8 | 840.0 | 784.3 | 750.7 | 728.6 | 732.6 |
| 17.5° | 1823.2 | 1772.4 | 1568.6 | 1250.7 | 967.8 | 824.5 | 742.3 | 708.7 | 702.1 | 699.4 | 701.2 |
| 20° | 1859.1 | 1781.7 | 1497.0 | 1096.9 | 851.9 | 731.7 | 689.2 | 686.1 | 685.7 | 684.4 | 688.8 |
| 22.5° | 1897.5 | 1792.7 | 1402.4 | 957.2 | 753.3 | 673.8 | 666.3 | 660.1 | 656.1 | 655.6 | 660.5 |
| 25° | 1943.1 | 1796.3 | 1283.9 | 842.7 | 669.3 | 646.4 | 637.5 | 628.2 | 625.6 | 625.6 | 628.2 |
| 27.5° | 1987.3 | 1784.3 | 1145.9 | 743.2 | 622.0 | 621.2 | 609.7 | 606.6 | 606.1 | 607.5 | 611.0 |
| 30° | 2031.5 | 1761.8 | 1008.9 | 651.2 | 594.6 | 594.6 | 590.7 | 592.9 | 594.6 | 599.1 | 602.1 |
| 32.5° | 2091.2 | 1737.9 | 894.4 | 583.1 | 570.8 | 566.3 | 570.3 | 574.7 | 576.5 | 582.3 | 587.1 |
| 35° | 2178.7 | 1721.1 | 803.3 | 546.0 | 546.0 | 540.3 | 542.5 | 541.6 | 537.6 | 534.9 | 541.1 |
| 37.5° | 2294.5 | 1720.2 | 728.1 | 528.8 | 525.2 | 524.3 | 524.8 | 519.0 | 503.6 | 485.0 | 485.4 |
| 40° | 2433.8 | 1744.1 | 670.2 | 516.8 | 514.2 | 519.5 | 516.8 | 501.3 | 458.9 | 426.6 | 425.7 |
| 42.5° | 2620.8 | 1812.2 | 633.1 | 502.2 | 510.2 | 516.8 | 506.2 | 452.7 | 424.0 | 402.3 | 401.4 |
| 45° | 2841.0 | 1922.7 | 614.1 | 486.8 | 502.7 | 510.6 | 459.3 | 435.9 | 412.9 | 386.8 | 385.1 |
| 47.5° | 3090.3 | 2062.0 | 609.7 | 472.2 | 485.9 | 490.7 | 439.5 | 428.8 | 402.8 | 374.5 | 372.3 |
| 50° | 3361.8 | 2226.9 | 621.6 | 454.9 | 461.6 | 444.8 | 432.8 | 423.1 | 396.1 | 368.3 | 365.2 |
| 52.5° | 3642.5 | 2408.6 | 645.5 | 431.5 | 437.2 | 418.7 | 430.2 | 421.8 | 392.1 | 354.6 | 351.9 |
| 55° | 3918.4 | 2591.6 | 668.5 | 404.1 | 412.5 | 395.2 | 422.7 | 416.5 | 374.0 | 331.6 | 329.4 |
| 57.5° | 4198.7 | 2773.8 | 691.0 | 379.8 | 388.6 | 372.7 | 410.7 | 402.3 | 353.7 | 310.4 | 309.5 |
| 60° | 4490.0 | 2950.6 | 701.6 | 356.3 | 362.5 | 351.9 | 392.6 | 378.0 | 330.7 | 288.7 | 287.4 |
| 62.5° | 4762.8 | 3097.8 | 684.4 | 332.9 | 336.9 | 332.5 | 368.7 | 349.3 | 307.7 | 264.4 | 263.9 |
| 65° | 5036.5 | 3185.4 | 631.3 | 309.9 | 310.8 | 308.6 | 335.1 | 318.3 | 280.7 | 243.2 | 240.5 |
| 67.5° | 5284.5 | 3234.4 | 546.9 | 285.2 | 282.9 | 282.1 | 303.7 | 284.7 | 254.7 | 221.9 | 219.3 |
| 70° | 5337.1 | 3109.8 | 417.8 | 256.0 | 256.0 | 253.8 | 269.2 | 249.8 | 225.9 | 199.4 | 198.5 |
| 72.5° | 4874.7 | 2615.9 | 296.7 | 222.8 | 226.4 | 221.9 | 234.8 | 218.4 | 196.7 | 179.1 | 173.7 |
| 75° | 3930.8 | 1918.3 | 215.7 | 188.8 | 195.0 | 187.5 | 199.4 | 187.9 | 169.3 | 168.9 | 152.1 |
| 77.5° | 2700.8 | 1186.2 | 156.5 | 155.6 | 160.0 | 150.3 | 164.0 | 157.8 | 141.0 | 133.5 | 125.1 |
| 80° | 1152.6 | 473.1 | 114.1 | 120.3 | 120.3 | 111.4 | 127.3 | 129.1 | 114.5 | 111.0 | 111.0 |
| 82.5° | 229.5 | 134.4 | 80.0 | 82.7 | 77.8 | 75.2 | 90.2 | 99.9 | 137.9 | 153.4 | 153.9 |
| 85° | 69.0 | 49.5 | 48.2 | 45.1 | 39.8 | 40.2 | 53.1 | 100.4 | 123.8 | 70.7 | 61.0 |
| 87.5° | 19.0 | 12.4 | 12.8 | 10.2 | 8.4 | 11.1 | 18.1 | 76.0 | 41.6 | 17.7 | 15.0 |
| 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)