

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: P944871

Luminaire Tested: **GALN-SB1A-727-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944871  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1A-727-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

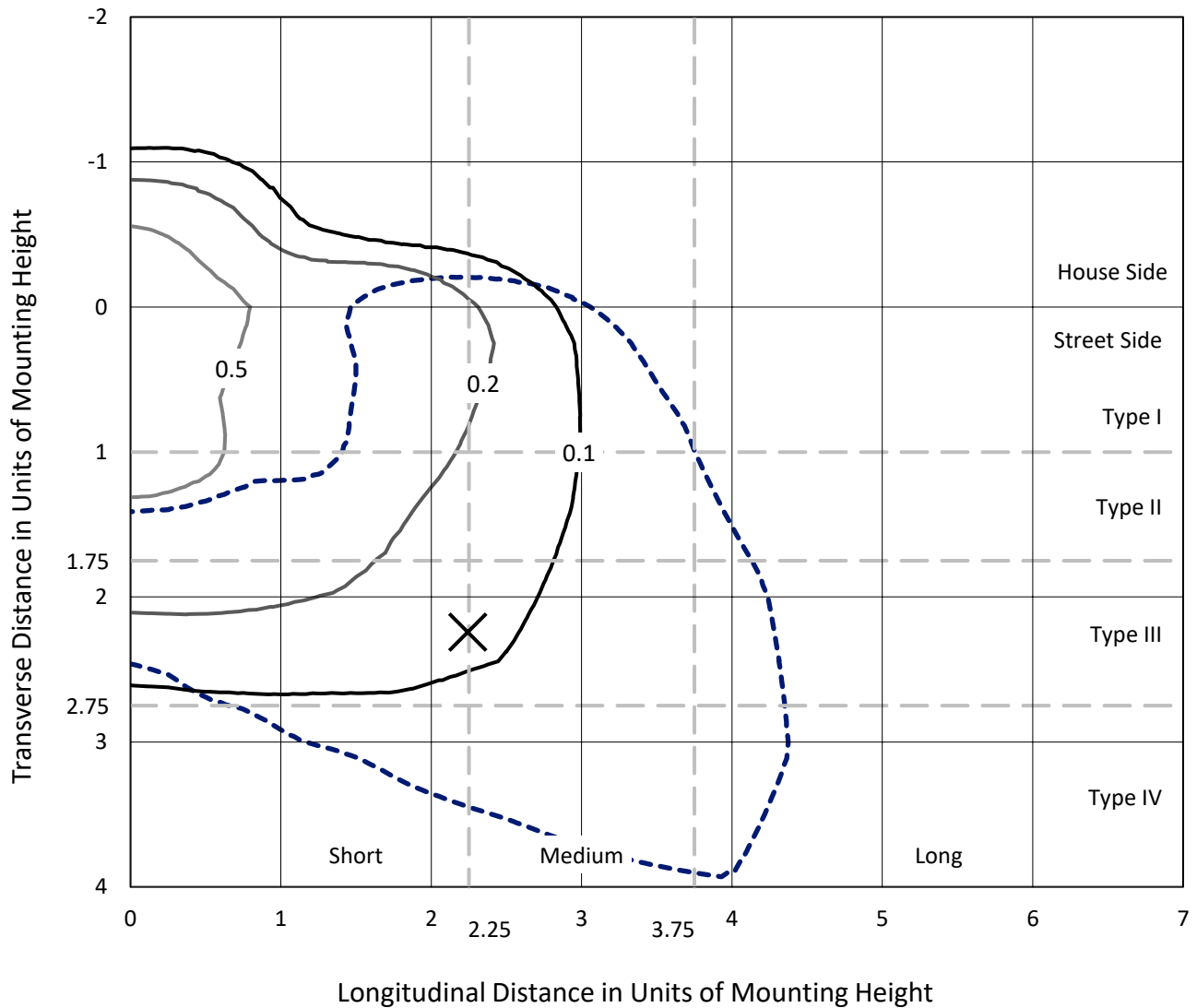
Lumens per Lamp: N/A  
Luminaire Lumens: 4154 lumens  
Efficiency: N/A  
Efficacy: 134.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

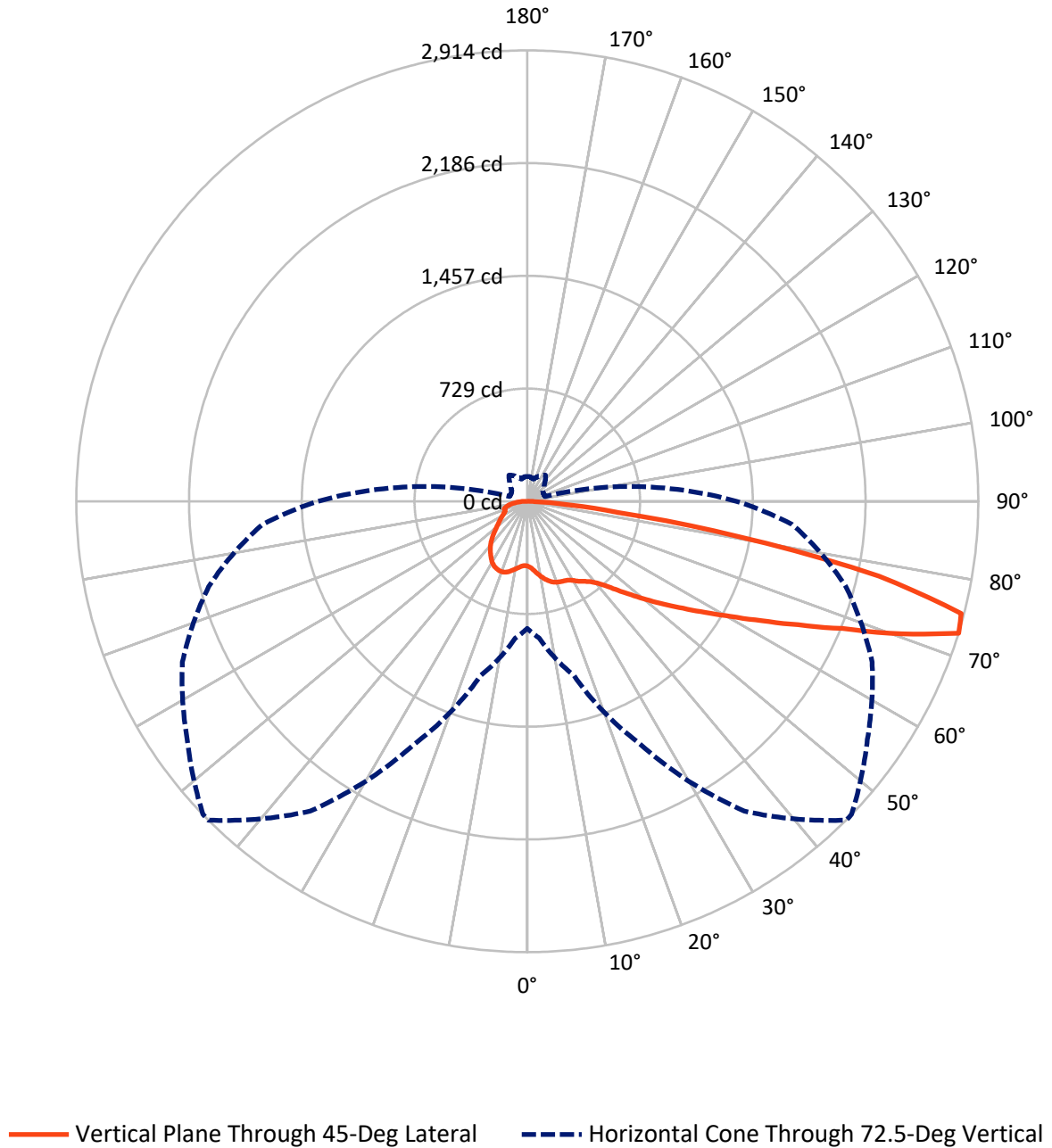
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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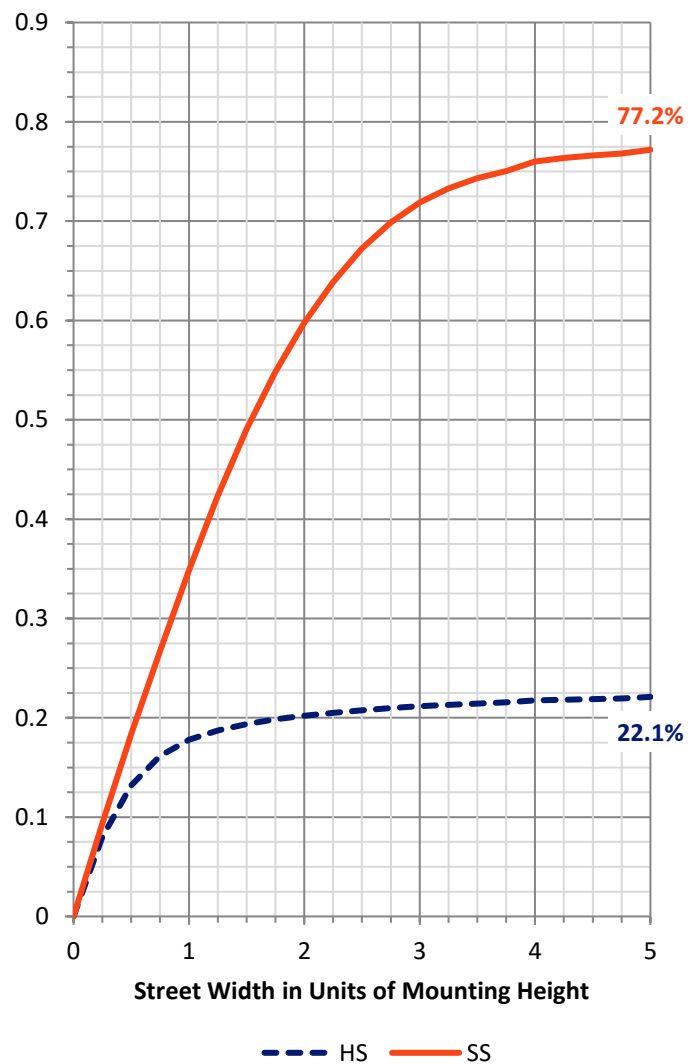
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 939.1    | 0.0    | 939.1  |
|                    | % Fixture | 22.6     | 0.0    | 22.6   |
| <b>Street Side</b> | Lumens    | 3214.9   | 0.0    | 3214.9 |
|                    | % Fixture | 77.4     | 0.0    | 77.4   |
| <b>Total</b>       | Lumens    | 4154.0   | 0.0    | 4154.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 42.7   | 1.0       |
| 10°-20°   | 142.2  | 3.4       |
| 20°-30°   | 247.4  | 6.0       |
| 30°-40°   | 354.6  | 8.5       |
| 40°-50°   | 499.3  | 12.0      |
| 50°-60°   | 764.8  | 18.4      |
| 60°-70°   | 1108.0 | 26.7      |
| 70°-80°   | 884.8  | 21.3      |
| 80°-90°   | 110.2  | 2.7       |
| 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°    | 4154.0 | 100.0     |
| 0°-180°   | 4154.0 | 100.0     |

**Coefficient of Utilization**



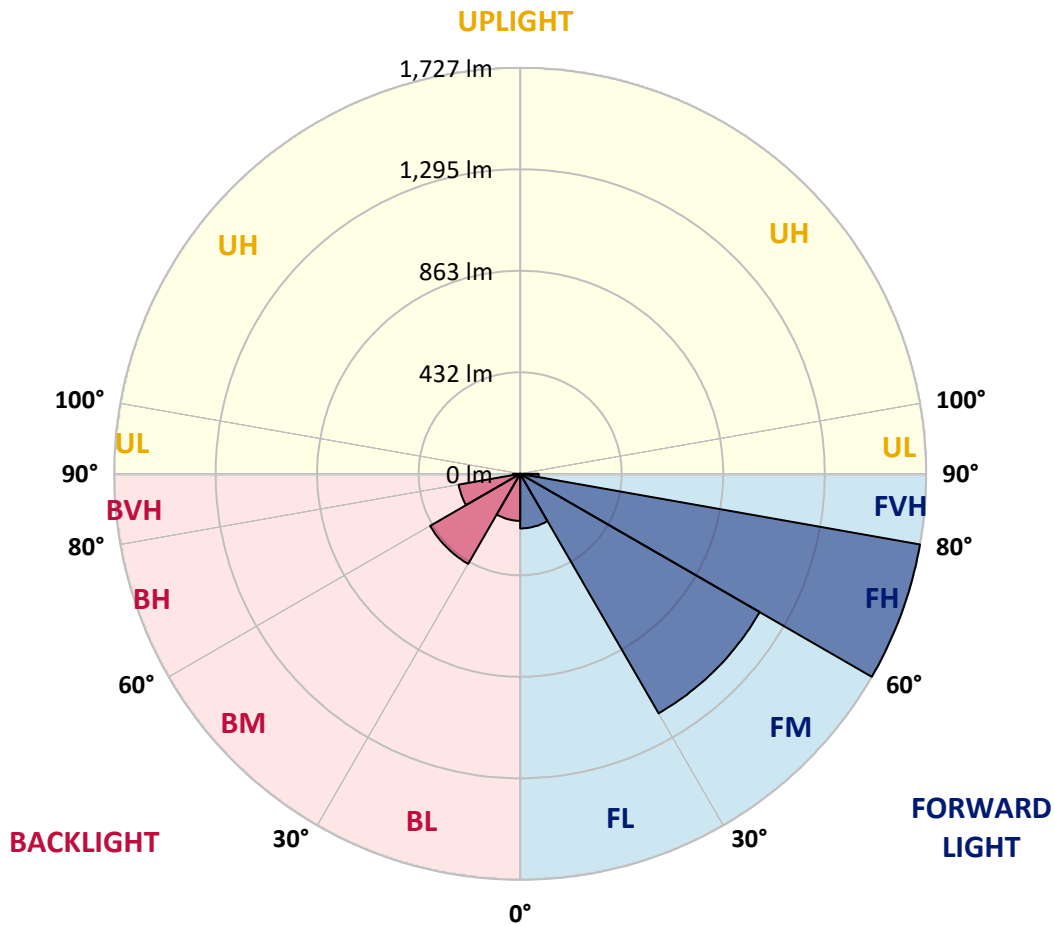
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 232.3  | 5.6       |                         |      |         |
| FM (30°-60°)   | 1176.6 | 28.3      |                         |      |         |
| FH (60°-80°)   | 1726.9 | 41.6      |                         |      | G1/1800 |
| FVH (80°-90°)  | 79.1   | 1.9       |                         |      | G1/100  |
| BL (0°-30°)    | 199.9  | 4.8       | B1/500                  |      |         |
| BM (30°-60°)   | 442.2  | 10.6      | B1/1000                 |      |         |
| BH (60°-80°)   | 265.8  | 6.4       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 31.1   | 0.7       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G1**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 46°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 419.1  | 419.1  | 419.1  | 419.1  | 419.1  | 419.1  | 419.1  | 419.1  | 419.1  | 419.1  | 419.1  |
| 2.5°  | 435.5  | 438.3  | 435.7  | 433.3  | 432.2  | 429.3  | 429.1  | 427.4  | 426.3  | 423.2  | 422.3  |
| 5°    | 465.9  | 469.6  | 465.2  | 460.4  | 456.0  | 449.0  | 448.2  | 443.1  | 437.4  | 430.9  | 427.2  |
| 7.5°  | 500.2  | 503.5  | 498.5  | 491.3  | 483.6  | 472.0  | 471.8  | 462.6  | 453.6  | 442.5  | 436.1  |
| 10°   | 530.2  | 534.6  | 527.8  | 518.0  | 508.3  | 495.2  | 493.7  | 483.2  | 471.8  | 457.4  | 447.7  |
| 12.5° | 556.7  | 559.8  | 553.2  | 541.2  | 530.0  | 516.9  | 514.9  | 503.3  | 490.6  | 474.2  | 461.9  |
| 15°   | 577.7  | 581.6  | 572.9  | 560.0  | 548.2  | 535.3  | 533.5  | 523.0  | 510.3  | 493.0  | 477.3  |
| 17.5° | 591.5  | 594.8  | 585.8  | 571.4  | 560.0  | 549.3  | 547.9  | 539.2  | 528.0  | 510.5  | 493.7  |
| 20°   | 596.7  | 600.2  | 590.8  | 576.2  | 565.7  | 557.4  | 556.7  | 550.4  | 542.7  | 526.7  | 509.7  |
| 22.5° | 602.0  | 605.3  | 593.0  | 577.7  | 568.5  | 563.3  | 563.0  | 558.9  | 555.8  | 542.7  | 526.1  |
| 25°   | 623.2  | 624.1  | 607.7  | 585.6  | 572.5  | 567.9  | 567.6  | 567.4  | 568.7  | 558.5  | 543.8  |
| 27.5° | 641.6  | 641.4  | 627.4  | 606.6  | 586.2  | 576.6  | 576.4  | 578.6  | 582.7  | 574.2  | 562.2  |
| 30°   | 668.5  | 666.1  | 649.5  | 627.8  | 609.2  | 594.3  | 593.0  | 591.1  | 594.3  | 587.6  | 580.6  |
| 32.5° | 725.6  | 718.0  | 691.1  | 652.5  | 628.3  | 616.9  | 615.1  | 602.9  | 604.2  | 600.0  | 596.5  |
| 35°   | 807.5  | 797.4  | 761.5  | 699.4  | 651.9  | 635.7  | 634.8  | 619.3  | 616.7  | 612.9  | 614.3  |
| 37.5° | 904.9  | 892.4  | 850.6  | 767.2  | 692.6  | 657.6  | 656.3  | 642.3  | 631.5  | 627.6  | 635.0  |
| 40°   | 1002.7 | 986.9  | 952.3  | 849.9  | 752.6  | 694.1  | 690.0  | 668.7  | 656.5  | 649.9  | 665.7  |
| 42.5° | 1097.6 | 1084.5 | 1055.0 | 942.7  | 826.5  | 747.5  | 738.3  | 702.0  | 692.8  | 686.7  | 715.1  |
| 45°   | 1181.7 | 1169.9 | 1148.2 | 1041.8 | 913.2  | 820.2  | 811.2  | 751.9  | 749.1  | 749.1  | 790.2  |
| 47.5° | 1250.0 | 1247.3 | 1224.3 | 1142.9 | 1015.4 | 902.9  | 887.4  | 821.3  | 828.9  | 840.7  | 896.8  |
| 50°   | 1325.7 | 1318.4 | 1293.9 | 1242.5 | 1135.5 | 997.6  | 984.9  | 906.4  | 935.1  | 967.4  | 1050.8 |
| 52.5° | 1395.3 | 1399.2 | 1371.8 | 1346.2 | 1271.2 | 1103.3 | 1081.0 | 1006.8 | 1068.8 | 1122.4 | 1231.4 |
| 55°   | 1466.8 | 1467.0 | 1459.4 | 1455.9 | 1413.4 | 1220.2 | 1195.7 | 1127.6 | 1226.1 | 1292.6 | 1441.9 |
| 57.5° | 1534.0 | 1534.4 | 1545.8 | 1576.7 | 1578.4 | 1355.0 | 1327.2 | 1276.0 | 1400.9 | 1468.8 | 1658.9 |
| 60°   | 1594.0 | 1597.0 | 1628.1 | 1700.3 | 1723.5 | 1509.5 | 1483.2 | 1451.3 | 1581.7 | 1650.0 | 1887.2 |
| 62.5° | 1614.1 | 1625.2 | 1694.4 | 1797.0 | 1866.8 | 1699.0 | 1673.2 | 1654.1 | 1771.6 | 1835.1 | 2078.0 |
| 65°   | 1579.9 | 1605.5 | 1739.3 | 1876.9 | 2014.3 | 1924.2 | 1898.6 | 1877.8 | 1969.0 | 2028.8 | 2234.7 |
| 67.5° | 1496.1 | 1529.2 | 1736.6 | 1960.7 | 2193.3 | 2195.1 | 2171.2 | 2122.4 | 2180.6 | 2203.6 | 2285.7 |
| 70°   | 1275.3 | 1324.8 | 1583.7 | 1992.0 | 2398.8 | 2565.6 | 2542.6 | 2417.0 | 2391.8 | 2280.6 | 2142.1 |
| 72.5° | 821.7  | 888.2  | 1166.1 | 1734.4 | 2444.5 | 2914.1 | 2912.8 | 2682.8 | 2458.5 | 2131.0 | 1718.0 |
| 75°   | 299.8  | 340.5  | 541.8  | 1088.7 | 2052.0 | 2896.4 | 2905.0 | 2637.3 | 2244.3 | 1646.0 | 1070.3 |
| 77.5° | 109.2  | 119.5  | 176.8  | 418.4  | 1262.0 | 2324.0 | 2341.7 | 2108.4 | 1597.5 | 826.1  | 424.1  |
| 80°   | 57.3   | 63.0   | 90.6   | 162.4  | 540.7  | 1380.2 | 1407.9 | 1253.0 | 750.8  | 248.8  | 127.1  |
| 82.5° | 31.7   | 34.4   | 50.8   | 88.2   | 243.6  | 590.2  | 606.8  | 495.0  | 264.1  | 105.5  | 52.5   |
| 85°   | 17.1   | 18.2   | 23.9   | 48.1   | 119.0  | 204.6  | 209.2  | 147.9  | 105.3  | 61.9   | 25.4   |
| 87.5° | 5.0    | 6.1    | 7.9    | 15.3   | 46.6   | 46.0   | 47.0   | 29.3   | 41.6   | 31.3   | 8.3    |
| 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°    | 419.1  | 419.1  | 419.1 | 419.1 | 419.1 | 419.1 | 419.1 | 419.1 | 419.1 | 419.1 | 419.1 |
| 2.5°  | 421.0  | 420.4  | 418.0 | 416.9 | 415.6 | 415.3 | 416.4 | 416.7 | 416.9 | 417.1 | 418.0 |
| 5°    | 425.0  | 422.8  | 420.6 | 419.3 | 419.7 | 419.9 | 422.1 | 423.7 | 424.7 | 425.6 | 426.1 |
| 7.5°  | 432.6  | 430.9  | 427.2 | 426.9 | 427.6 | 429.6 | 432.4 | 435.9 | 437.9 | 439.4 | 439.8 |
| 10°   | 444.0  | 440.7  | 436.3 | 437.0 | 438.3 | 441.2 | 447.1 | 449.9 | 453.2 | 456.0 | 455.4 |
| 12.5° | 455.6  | 452.8  | 447.7 | 448.2 | 450.4 | 455.4 | 461.1 | 464.6 | 466.8 | 469.0 | 469.8 |
| 15°   | 470.7  | 465.7  | 460.2 | 460.2 | 464.1 | 469.6 | 472.2 | 475.1 | 476.4 | 478.8 | 479.7 |
| 17.5° | 486.2  | 479.7  | 472.5 | 472.0 | 476.8 | 479.5 | 481.0 | 481.4 | 481.9 | 484.5 | 485.4 |
| 20°   | 501.8  | 494.6  | 484.3 | 483.4 | 484.5 | 484.0 | 483.8 | 483.4 | 484.0 | 487.3 | 488.6 |
| 22.5° | 517.1  | 508.8  | 494.6 | 490.6 | 487.6 | 483.4 | 483.2 | 483.0 | 483.4 | 486.7 | 488.9 |
| 25°   | 535.0  | 525.0  | 505.9 | 494.1 | 483.8 | 478.1 | 478.8 | 479.0 | 479.5 | 482.1 | 485.6 |
| 27.5° | 554.5  | 543.4  | 516.4 | 493.0 | 474.4 | 470.5 | 469.4 | 470.0 | 471.6 | 475.7 | 479.9 |
| 30°   | 574.0  | 560.9  | 526.1 | 488.6 | 462.6 | 457.1 | 453.6 | 455.2 | 460.0 | 464.1 | 468.7 |
| 32.5° | 591.7  | 578.6  | 533.7 | 479.0 | 447.5 | 439.0 | 434.4 | 436.3 | 441.2 | 442.7 | 448.2 |
| 35°   | 612.5  | 597.6  | 537.0 | 463.7 | 431.1 | 418.0 | 411.8 | 409.0 | 411.4 | 409.9 | 414.7 |
| 37.5° | 635.7  | 620.2  | 536.6 | 443.6 | 411.8 | 396.7 | 388.2 | 377.5 | 372.4 | 367.2 | 370.5 |
| 40°   | 670.1  | 647.7  | 531.3 | 419.3 | 388.0 | 374.2 | 358.9 | 340.7 | 329.3 | 319.1 | 319.7 |
| 42.5° | 716.9  | 686.0  | 521.7 | 392.6 | 361.1 | 348.2 | 327.4 | 306.1 | 288.2 | 271.1 | 269.6 |
| 45°   | 786.7  | 736.1  | 509.7 | 364.1 | 332.0 | 319.3 | 296.7 | 272.9 | 252.5 | 230.6 | 228.0 |
| 47.5° | 887.4  | 803.5  | 498.3 | 331.7 | 301.3 | 289.7 | 269.4 | 247.3 | 223.2 | 202.0 | 199.6 |
| 50°   | 1025.7 | 900.3  | 487.8 | 300.2 | 271.1 | 262.4 | 246.2 | 223.6 | 199.4 | 182.3 | 181.2 |
| 52.5° | 1201.6 | 1031.8 | 483.4 | 269.8 | 242.9 | 239.6 | 226.7 | 205.7 | 182.7 | 168.3 | 167.2 |
| 55°   | 1403.6 | 1189.1 | 483.4 | 240.7 | 218.2 | 219.3 | 210.3 | 190.8 | 170.9 | 158.0 | 156.7 |
| 57.5° | 1609.7 | 1348.4 | 474.6 | 213.8 | 197.2 | 201.8 | 196.1 | 179.0 | 161.1 | 147.7 | 145.5 |
| 60°   | 1799.7 | 1481.9 | 439.2 | 189.3 | 178.6 | 185.8 | 182.1 | 167.4 | 145.5 | 134.4 | 132.6 |
| 62.5° | 1945.6 | 1557.2 | 370.9 | 169.8 | 163.2 | 171.6 | 169.6 | 152.1 | 142.7 | 138.1 | 136.5 |
| 65°   | 2018.7 | 1544.9 | 283.6 | 152.5 | 150.3 | 163.2 | 159.1 | 158.4 | 151.0 | 145.7 | 144.0 |
| 67.5° | 1973.8 | 1439.5 | 205.7 | 139.8 | 142.9 | 155.6 | 171.6 | 174.2 | 160.4 | 150.1 | 148.4 |
| 70°   | 1777.1 | 1248.6 | 153.2 | 127.8 | 133.5 | 155.8 | 195.6 | 182.3 | 157.3 | 145.3 | 143.3 |
| 72.5° | 1351.9 | 931.1  | 118.8 | 115.1 | 121.2 | 156.9 | 206.4 | 178.6 | 148.6 | 160.6 | 159.3 |
| 75°   | 773.1  | 511.2  | 95.4  | 99.6  | 105.9 | 146.6 | 200.9 | 168.9 | 141.8 | 147.5 | 147.5 |
| 77.5° | 294.8  | 196.5  | 78.8  | 84.2  | 85.1  | 128.0 | 192.1 | 168.3 | 135.0 | 131.7 | 120.1 |
| 80°   | 102.2  | 76.8   | 65.2  | 67.0  | 65.9  | 113.8 | 184.3 | 146.4 | 110.5 | 98.9  | 95.6  |
| 82.5° | 41.8   | 38.3   | 51.6  | 49.5  | 46.8  | 88.4  | 148.8 | 119.7 | 90.4  | 79.9  | 79.0  |
| 85°   | 18.2   | 24.3   | 34.1  | 30.0  | 27.1  | 61.3  | 119.3 | 101.3 | 76.4  | 65.9  | 65.6  |
| 87.5° | 3.7    | 9.2    | 14.4  | 13.6  | 14.0  | 40.9  | 84.7  | 72.0  | 54.1  | 40.5  | 31.7  |
| 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)