

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: P945228

Luminaire Tested: **GALN-SB1B-727-U-T4W**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P945228  
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-SB1B-727-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 5215 lumens  
Efficiency: N/A  
Efficacy: 131.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 39.8  
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

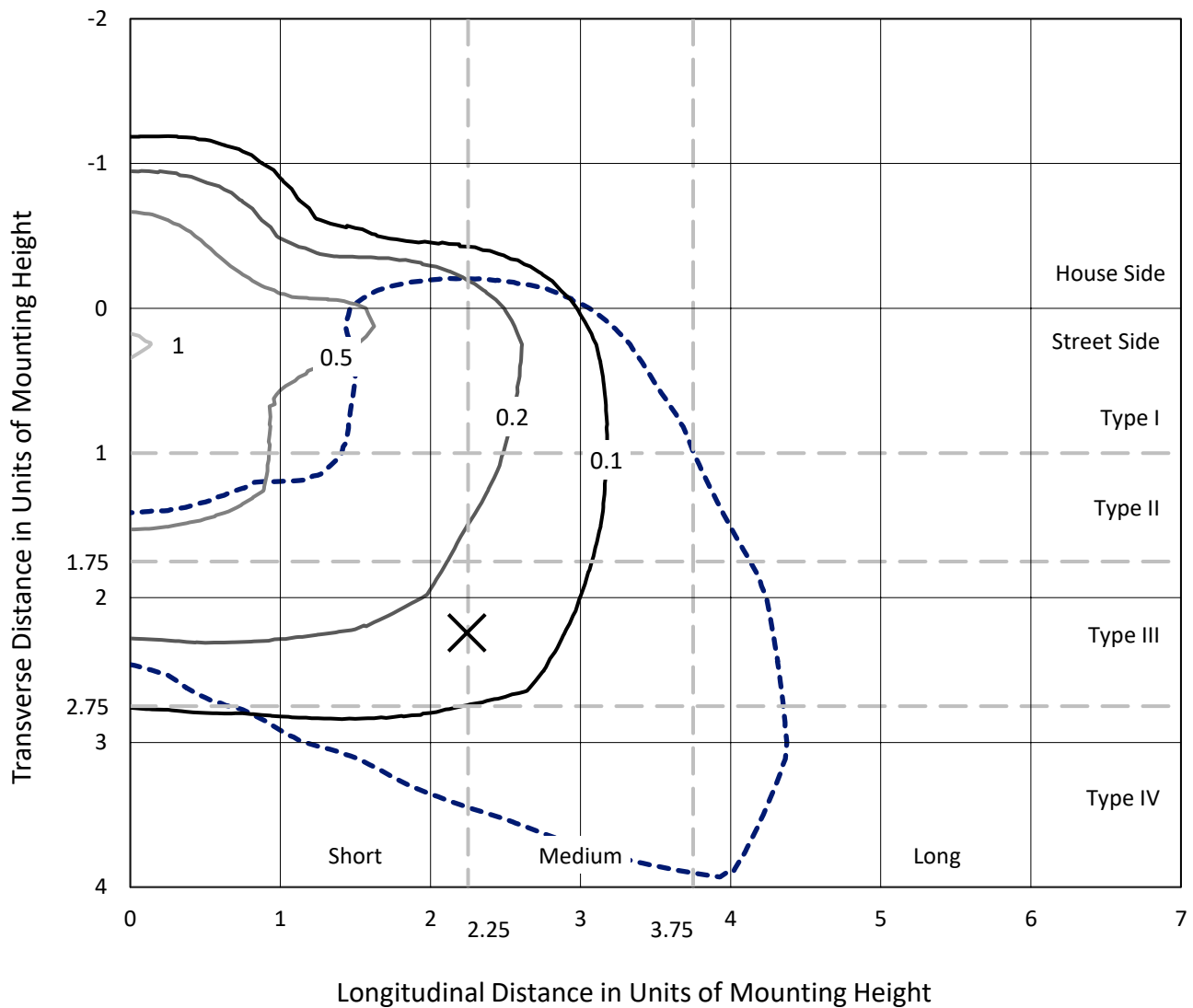


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
--- 1/2 Max cd

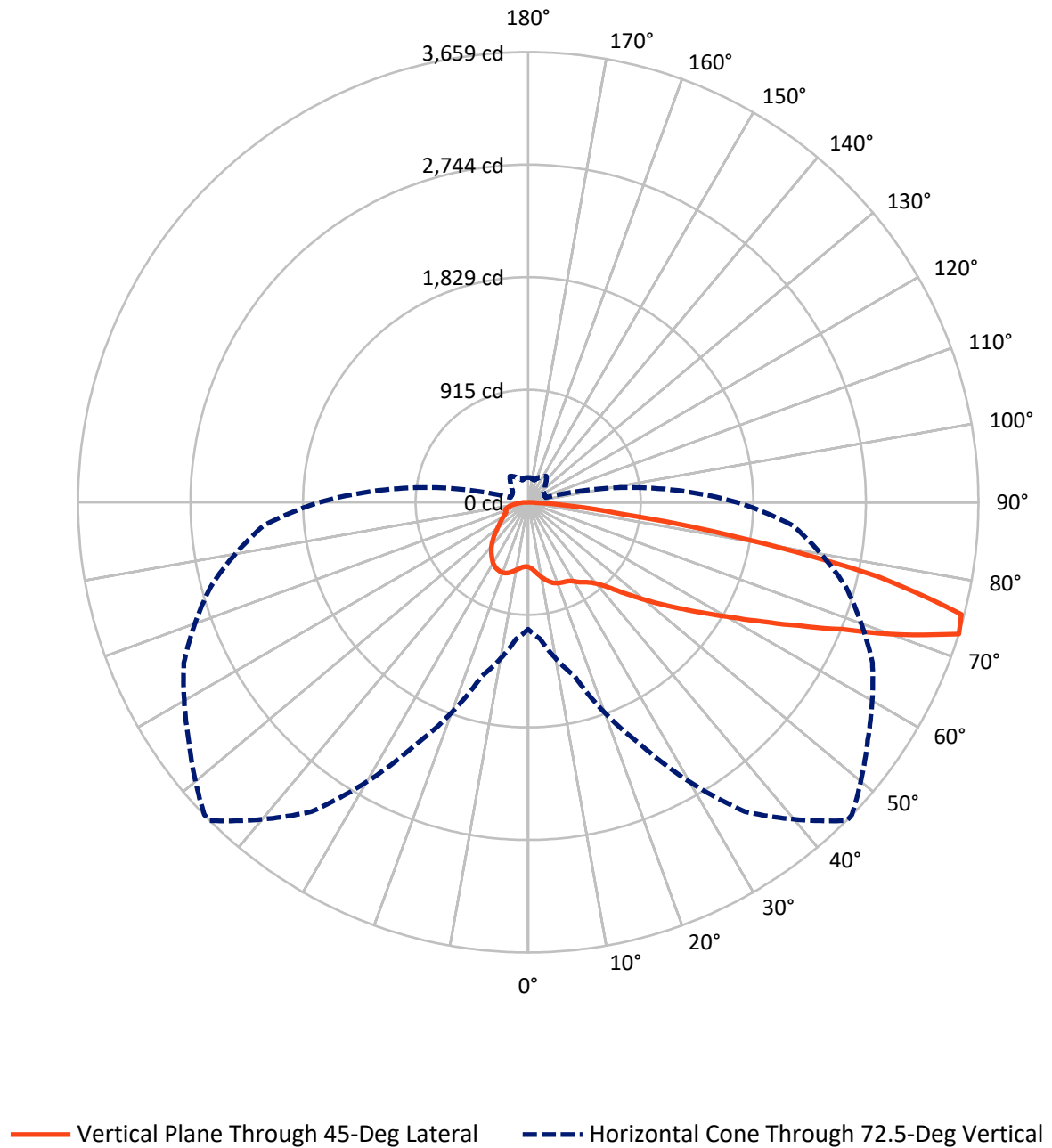


Based on 25 foot mounting height. Maximum calculated value = 1 fc  
Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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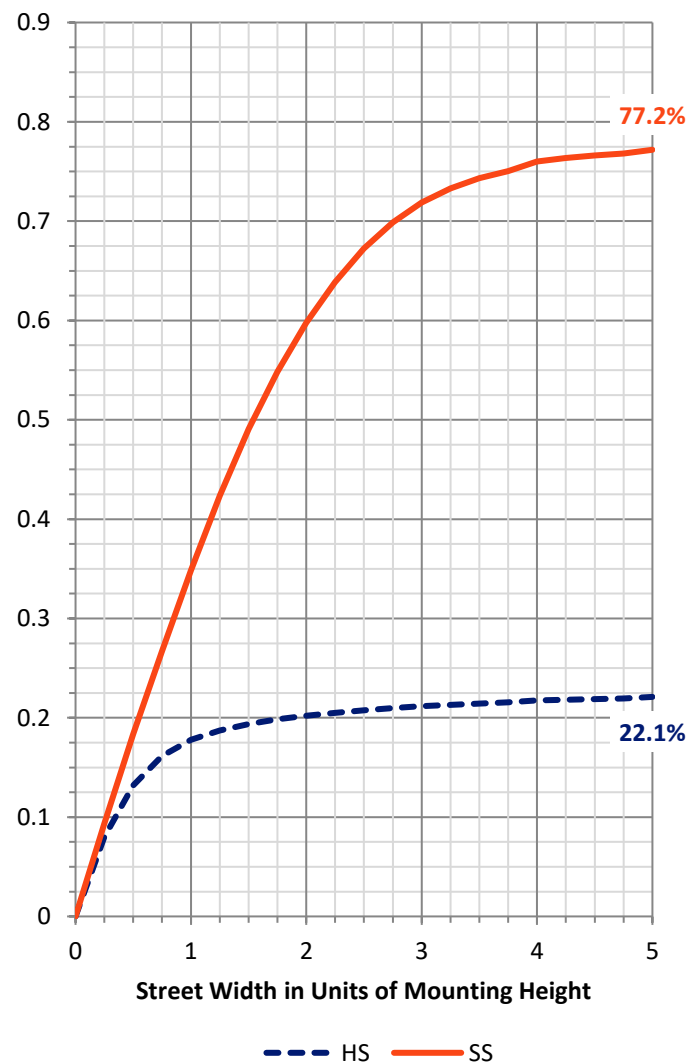
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1178.9   | 0.0    | 1178.9 |
|                    | % Fixture | 22.6     | 0.0    | 22.6   |
| <b>Street Side</b> | Lumens    | 4036.1   | 0.0    | 4036.1 |
|                    | % Fixture | 77.4     | 0.0    | 77.4   |
| <b>Total</b>       | Lumens    | 5215.0   | 0.0    | 5215.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 53.5   | 1.0       |
| 10°-20°   | 178.5  | 3.4       |
| 20°-30°   | 310.6  | 6.0       |
| 30°-40°   | 445.2  | 8.5       |
| 40°-50°   | 626.9  | 12.0      |
| 50°-60°   | 960.2  | 18.4      |
| 60°-70°   | 1391.0 | 26.7      |
| 70°-80°   | 1110.8 | 21.3      |
| 80°-90°   | 138.3  | 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°    | 5215.0 | 100.0     |
| 0°-180°   | 5215.0 | 100.0     |

**Coefficient of Utilization**



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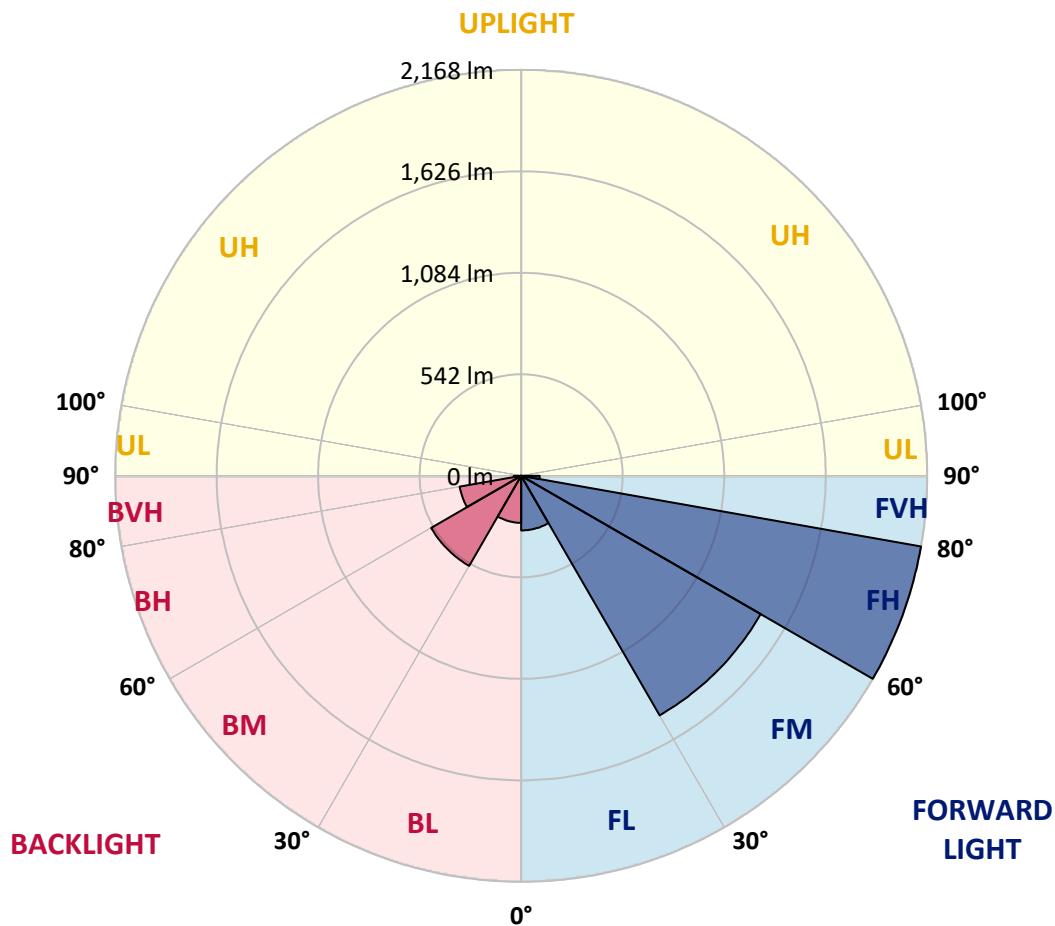
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 291.6  | 5.6       |                         |      |         |
| FM   | (30°-60°)   | 1477.2 | 28.3      |                         |      |         |
| FH   | (60°-80°)   | 2168.0 | 41.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 99.2   | 1.9       |                         |      | G1/100  |
| BL   | (0°-30°)    | 251.0  | 4.8       | B1/500                  |      |         |
| BM   | (30°-60°)   | 555.1  | 10.6      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 333.7  | 6.4       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 39.1   | 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-G2**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 46°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 526.1  | 526.1  | 526.1  | 526.1  | 526.1  | 526.1  | 526.1  | 526.1  | 526.1  | 526.1  | 526.1  |
| 2.5°  | 546.7  | 550.3  | 547.0  | 543.9  | 542.6  | 539.0  | 538.7  | 536.5  | 535.2  | 531.3  | 530.2  |
| 5°    | 584.9  | 589.6  | 584.1  | 578.0  | 572.5  | 563.7  | 562.6  | 556.3  | 549.2  | 540.9  | 536.3  |
| 7.5°  | 628.0  | 632.1  | 625.8  | 616.8  | 607.1  | 592.6  | 592.3  | 580.8  | 569.5  | 555.5  | 547.5  |
| 10°   | 665.7  | 671.1  | 662.6  | 650.3  | 638.2  | 621.7  | 619.8  | 606.6  | 592.3  | 574.2  | 562.1  |
| 12.5° | 698.9  | 702.7  | 694.5  | 679.4  | 665.4  | 648.9  | 646.4  | 631.9  | 615.9  | 595.3  | 579.9  |
| 15°   | 725.3  | 730.2  | 719.2  | 703.0  | 688.2  | 672.0  | 669.8  | 656.6  | 640.7  | 618.9  | 599.2  |
| 17.5° | 742.6  | 746.7  | 735.4  | 717.3  | 703.0  | 689.6  | 687.9  | 676.9  | 662.9  | 640.9  | 619.8  |
| 20°   | 749.2  | 753.6  | 741.7  | 723.3  | 710.2  | 699.7  | 698.9  | 690.9  | 681.3  | 661.3  | 639.8  |
| 22.5° | 755.8  | 759.9  | 744.5  | 725.3  | 713.7  | 707.1  | 706.9  | 701.6  | 697.8  | 681.3  | 660.4  |
| 25°   | 782.4  | 783.5  | 762.9  | 735.2  | 718.7  | 712.9  | 712.6  | 712.4  | 714.0  | 701.1  | 682.7  |
| 27.5° | 805.5  | 805.2  | 787.6  | 761.5  | 736.0  | 723.9  | 723.6  | 726.4  | 731.6  | 720.9  | 705.8  |
| 30°   | 839.3  | 836.3  | 815.4  | 788.2  | 764.8  | 746.1  | 744.5  | 742.0  | 746.1  | 737.6  | 728.8  |
| 32.5° | 911.0  | 901.4  | 867.6  | 819.2  | 788.7  | 774.4  | 772.2  | 756.9  | 758.5  | 753.3  | 748.9  |
| 35°   | 1013.7 | 1001.1 | 956.0  | 878.0  | 818.4  | 798.1  | 797.0  | 777.5  | 774.2  | 769.5  | 771.1  |
| 37.5° | 1136.0 | 1120.3 | 1067.8 | 963.2  | 869.5  | 825.5  | 823.9  | 806.3  | 792.8  | 787.9  | 797.2  |
| 40°   | 1258.8 | 1239.0 | 1195.6 | 1067.0 | 944.8  | 871.4  | 866.2  | 839.5  | 824.2  | 815.9  | 835.7  |
| 42.5° | 1378.0 | 1361.5 | 1324.4 | 1183.5 | 1037.6 | 938.4  | 926.9  | 881.3  | 869.8  | 862.1  | 897.8  |
| 45°   | 1483.5 | 1468.7 | 1441.5 | 1307.9 | 1146.4 | 1029.7 | 1018.4 | 943.9  | 940.4  | 940.4  | 992.0  |
| 47.5° | 1569.2 | 1565.9 | 1537.1 | 1434.9 | 1274.7 | 1133.5 | 1114.0 | 1031.0 | 1040.6 | 1055.5 | 1125.8 |
| 50°   | 1664.3 | 1655.2 | 1624.4 | 1559.9 | 1425.5 | 1252.5 | 1236.5 | 1137.9 | 1173.9 | 1214.5 | 1319.2 |
| 52.5° | 1751.6 | 1756.6 | 1722.2 | 1690.1 | 1595.9 | 1385.1 | 1357.1 | 1264.0 | 1341.7 | 1409.0 | 1545.9 |
| 55°   | 1841.5 | 1841.7 | 1832.1 | 1827.7 | 1774.4 | 1531.8 | 1501.1 | 1415.6 | 1539.3 | 1622.8 | 1810.1 |
| 57.5° | 1925.8 | 1926.3 | 1940.6 | 1979.4 | 1981.6 | 1701.1 | 1666.2 | 1601.9 | 1758.8 | 1843.9 | 2082.7 |
| 60°   | 2001.1 | 2004.9 | 2043.9 | 2134.6 | 2163.7 | 1895.0 | 1862.1 | 1822.0 | 1985.7 | 2071.4 | 2369.2 |
| 62.5° | 2026.3 | 2040.4 | 2127.2 | 2256.0 | 2343.7 | 2132.9 | 2100.5 | 2076.6 | 2224.1 | 2303.8 | 2608.8 |
| 65°   | 1983.5 | 2015.6 | 2183.5 | 2356.3 | 2528.8 | 2415.6 | 2383.5 | 2357.4 | 2471.9 | 2546.9 | 2805.5 |
| 67.5° | 1878.3 | 1919.8 | 2180.2 | 2461.5 | 2753.5 | 2755.7 | 2725.8 | 2664.5 | 2737.6 | 2766.4 | 2869.5 |
| 70°   | 1601.1 | 1663.2 | 1988.2 | 2500.8 | 3011.5 | 3220.8 | 3192.0 | 3034.3 | 3002.7 | 2863.1 | 2689.3 |
| 72.5° | 1031.6 | 1115.1 | 1464.0 | 2177.4 | 3068.9 | 3658.5 | 3656.8 | 3368.1 | 3086.5 | 2675.2 | 2156.8 |
| 75°   | 376.4  | 427.5  | 680.2  | 1366.7 | 2576.1 | 3636.2 | 3646.9 | 3310.9 | 2817.5 | 2066.5 | 1343.7 |
| 77.5° | 137.1  | 150.0  | 222.0  | 525.3  | 1584.3 | 2917.5 | 2939.8 | 2646.9 | 2005.5 | 1037.1 | 532.4  |
| 80°   | 72.0   | 79.1   | 113.7  | 203.8  | 678.8  | 1732.7 | 1767.6 | 1573.1 | 942.6  | 312.4  | 159.6  |
| 82.5° | 39.8   | 43.1   | 63.7   | 110.7  | 305.8  | 740.9  | 761.8  | 621.4  | 331.6  | 132.4  | 65.9   |
| 85°   | 21.4   | 22.8   | 29.9   | 60.4   | 149.4  | 256.9  | 262.6  | 185.7  | 132.1  | 77.7   | 31.9   |
| 87.5° | 6.3    | 7.7    | 9.9    | 19.2   | 58.5   | 57.7   | 59.1   | 36.8   | 52.2   | 39.3   | 10.4   |
| 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°    | 526.1  | 526.1  | 526.1 | 526.1 | 526.1 | 526.1 | 526.1 | 526.1 | 526.1 | 526.1 | 526.1 |
| 2.5°  | 528.6  | 527.7  | 524.7 | 523.3 | 521.7 | 521.4 | 522.8 | 523.1 | 523.3 | 523.6 | 524.7 |
| 5°    | 533.5  | 530.8  | 528.0 | 526.4 | 526.9 | 527.2 | 529.9 | 531.9 | 533.2 | 534.3 | 534.9 |
| 7.5°  | 543.1  | 540.9  | 536.3 | 536.0 | 536.8 | 539.3 | 542.9 | 547.2 | 549.7 | 551.6 | 552.2 |
| 10°   | 557.4  | 553.3  | 547.8 | 548.6 | 550.3 | 553.8 | 561.3 | 564.8 | 568.9 | 572.5 | 571.7 |
| 12.5° | 572.0  | 568.4  | 562.1 | 562.6 | 565.4 | 571.7 | 578.8 | 583.2 | 586.0 | 588.7 | 589.8 |
| 15°   | 590.9  | 584.6  | 577.7 | 577.7 | 582.7 | 589.6 | 592.8 | 596.4 | 598.1 | 601.1 | 602.2 |
| 17.5° | 610.4  | 602.2  | 593.1 | 592.6 | 598.6 | 601.9 | 603.8 | 604.4 | 604.9 | 608.2 | 609.3 |
| 20°   | 629.9  | 620.9  | 608.0 | 606.9 | 608.2 | 607.7 | 607.4 | 606.9 | 607.7 | 611.8 | 613.5 |
| 22.5° | 649.2  | 638.7  | 620.9 | 615.9 | 612.1 | 606.9 | 606.6 | 606.3 | 606.9 | 611.0 | 613.7 |
| 25°   | 671.7  | 659.1  | 635.2 | 620.3 | 607.4 | 600.3 | 601.1 | 601.4 | 601.9 | 605.2 | 609.6 |
| 27.5° | 696.1  | 682.1  | 648.3 | 618.9 | 595.6 | 590.7 | 589.3 | 590.1 | 592.0 | 597.2 | 602.5 |
| 30°   | 720.6  | 704.1  | 660.4 | 613.5 | 580.8 | 573.9 | 569.5 | 571.4 | 577.5 | 582.7 | 588.5 |
| 32.5° | 742.8  | 726.4  | 670.0 | 601.4 | 561.8 | 551.1 | 545.3 | 547.8 | 553.8 | 555.8 | 562.6 |
| 35°   | 768.9  | 750.3  | 674.2 | 582.1 | 541.2 | 524.7 | 517.0 | 513.5 | 516.5 | 514.6 | 520.6 |
| 37.5° | 798.1  | 778.6  | 673.6 | 556.9 | 517.0 | 498.1 | 487.4 | 473.9 | 467.6 | 461.0 | 465.1 |
| 40°   | 841.2  | 813.2  | 667.0 | 526.4 | 487.1 | 469.8 | 450.5 | 427.7 | 413.5 | 400.5 | 401.4 |
| 42.5° | 900.0  | 861.3  | 654.9 | 492.9 | 453.3 | 437.1 | 411.0 | 384.3 | 361.8 | 340.4 | 338.5 |
| 45°   | 987.6  | 924.2  | 639.8 | 457.1 | 416.8 | 400.8 | 372.5 | 342.6 | 317.0 | 289.6 | 286.3 |
| 47.5° | 1114.0 | 1008.8 | 625.5 | 416.5 | 378.3 | 363.7 | 338.2 | 310.4 | 280.2 | 253.6 | 250.5 |
| 50°   | 1287.6 | 1130.2 | 612.4 | 376.9 | 340.4 | 329.4 | 309.1 | 280.8 | 250.3 | 228.8 | 227.5 |
| 52.5° | 1508.5 | 1295.3 | 606.9 | 338.7 | 304.9 | 300.8 | 284.6 | 258.2 | 229.4 | 211.3 | 209.9 |
| 55°   | 1762.1 | 1492.8 | 606.9 | 302.2 | 273.9 | 275.3 | 264.0 | 239.6 | 214.6 | 198.3 | 196.7 |
| 57.5° | 2020.9 | 1692.8 | 595.9 | 268.4 | 247.5 | 253.3 | 246.2 | 224.7 | 202.2 | 185.4 | 182.7 |
| 60°   | 2259.3 | 1860.4 | 551.4 | 237.6 | 224.2 | 233.2 | 228.6 | 210.2 | 182.7 | 168.7 | 166.5 |
| 62.5° | 2442.6 | 1954.9 | 465.7 | 213.2 | 204.9 | 215.4 | 212.9 | 190.9 | 179.1 | 173.3 | 171.4 |
| 65°   | 2534.3 | 1939.5 | 356.0 | 191.5 | 188.7 | 204.9 | 199.7 | 198.9 | 189.6 | 183.0 | 180.8 |
| 67.5° | 2478.0 | 1807.1 | 258.2 | 175.5 | 179.4 | 195.3 | 215.4 | 218.7 | 201.4 | 188.5 | 186.3 |
| 70°   | 2231.0 | 1567.6 | 192.3 | 160.4 | 167.6 | 195.6 | 245.6 | 228.8 | 197.5 | 182.4 | 179.9 |
| 72.5° | 1697.2 | 1168.9 | 149.2 | 144.5 | 152.2 | 197.0 | 259.1 | 224.2 | 186.5 | 201.6 | 200.0 |
| 75°   | 970.6  | 641.7  | 119.8 | 125.0 | 133.0 | 184.1 | 252.2 | 212.1 | 178.0 | 185.2 | 185.2 |
| 77.5° | 370.1  | 246.7  | 98.9  | 105.8 | 106.9 | 160.7 | 241.2 | 211.3 | 169.5 | 165.4 | 150.8 |
| 80°   | 128.3  | 96.4   | 81.9  | 84.1  | 82.7  | 142.9 | 231.3 | 183.8 | 138.7 | 124.2 | 120.1 |
| 82.5° | 52.5   | 48.1   | 64.8  | 62.1  | 58.8  | 111.0 | 186.8 | 150.3 | 113.5 | 100.3 | 99.2  |
| 85°   | 22.8   | 30.5   | 42.9  | 37.6  | 34.1  | 76.9  | 149.7 | 127.2 | 95.9  | 82.7  | 82.4  |
| 87.5° | 4.7    | 11.5   | 18.1  | 17.0  | 17.6  | 51.4  | 106.3 | 90.4  | 67.9  | 50.8  | 39.8  |
| 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)