

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: P938725

Luminaire Tested: **GALN-SB1A-727-U-T2**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P938725  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
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-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 4124 lumens  
Efficiency: N/A  
Efficacy: 133.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
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

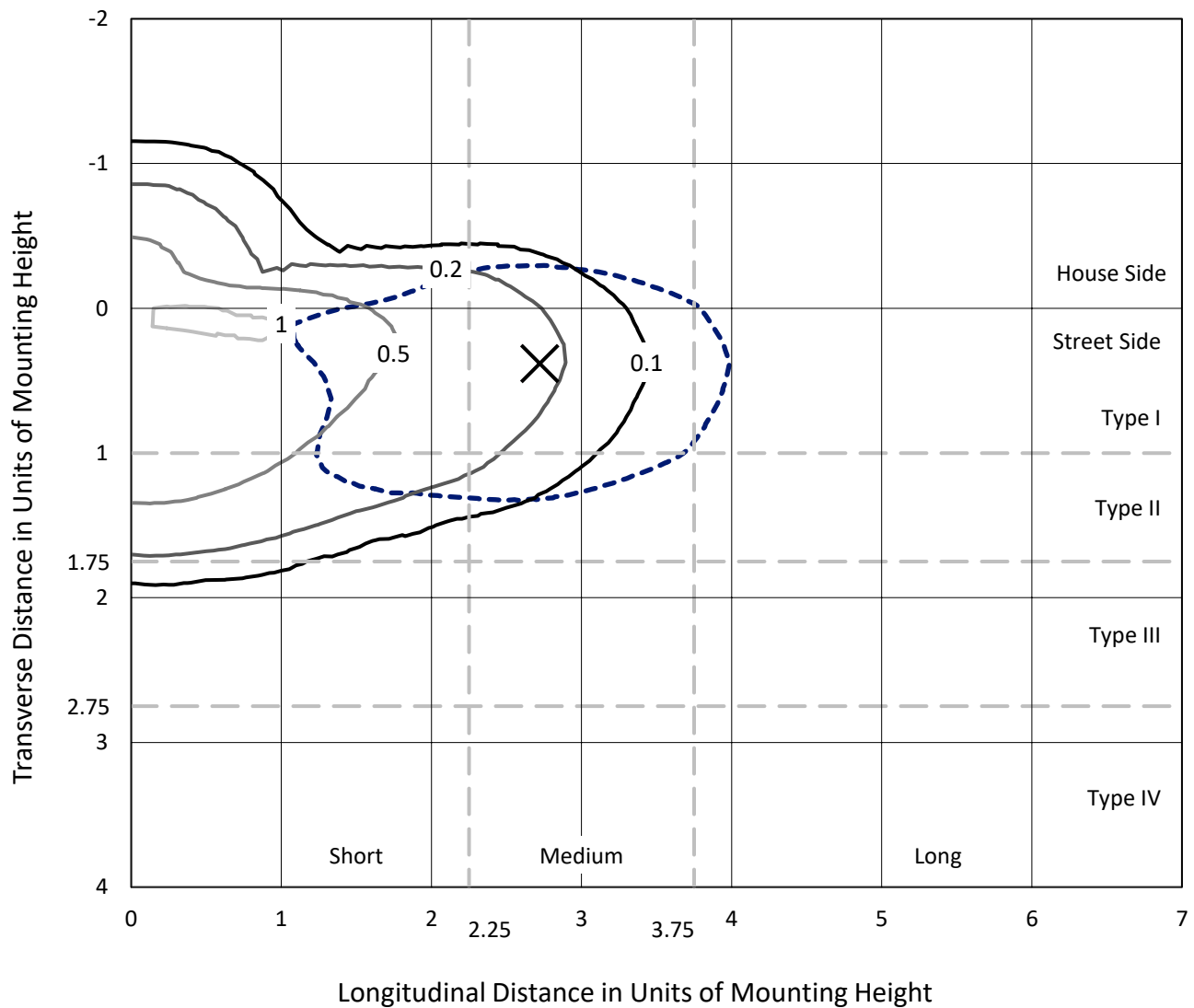


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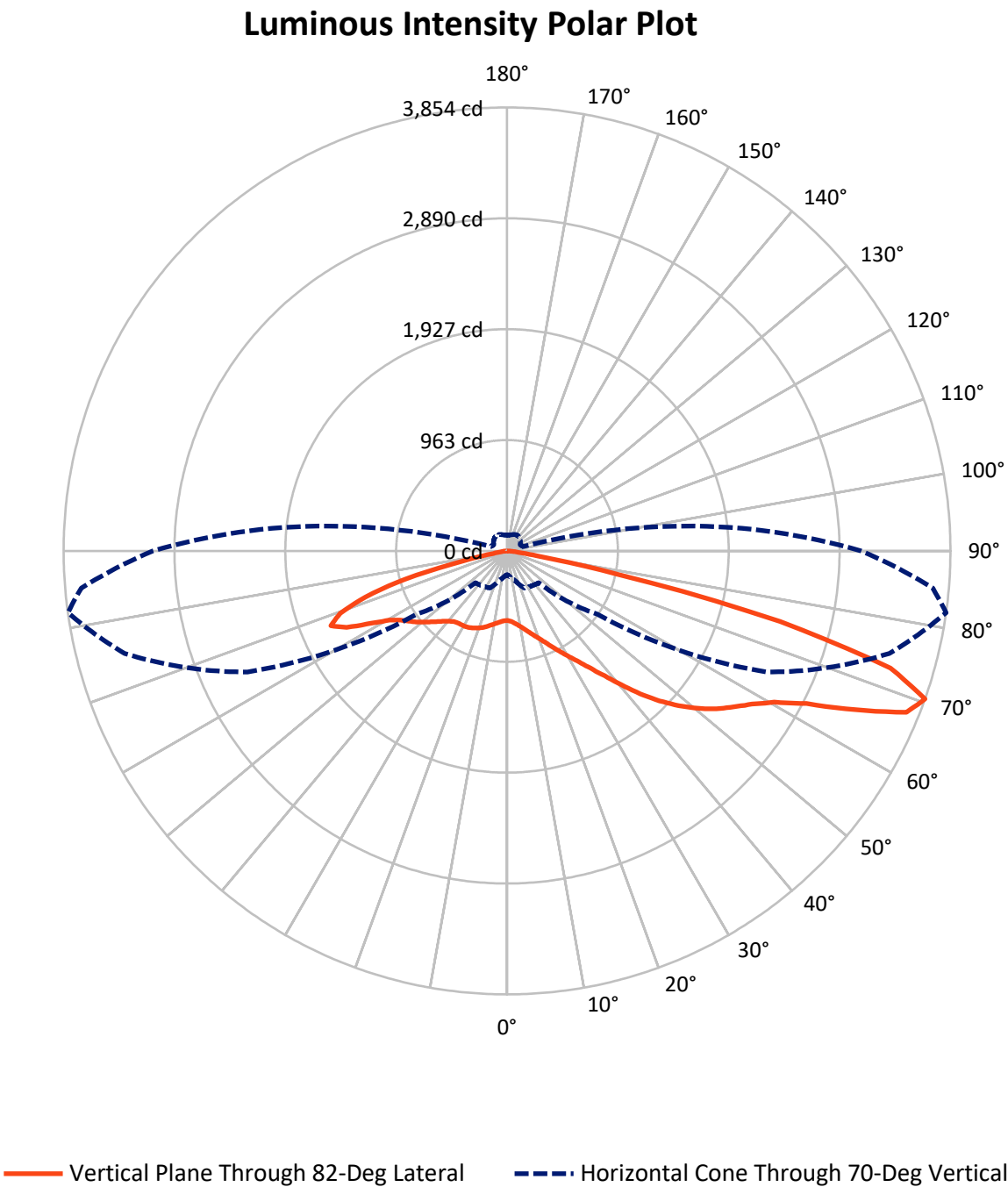
## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc  
Type II - Medium - N/A

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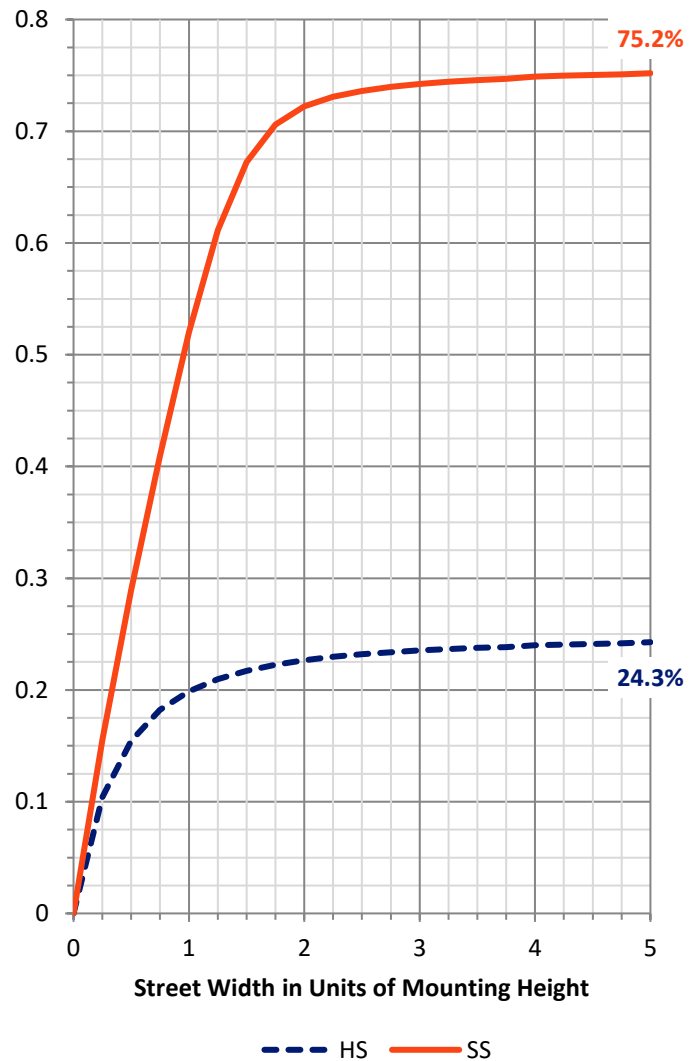
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1016.7   | 0.0    | 1016.7 |
|                    | % Fixture | 24.7     | 0.0    | 24.7   |
| <b>Street Side</b> | Lumens    | 3107.3   | 0.0    | 3107.3 |
|                    | % Fixture | 75.3     | 0.0    | 75.3   |
| <b>Total</b>       | Lumens    | 4124.0   | 0.0    | 4124.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 57.1   | 1.4       |
| 10°-20°   | 164.0  | 4.0       |
| 20°-30°   | 274.4  | 6.7       |
| 30°-40°   | 428.7  | 10.4      |
| 40°-50°   | 682.7  | 16.6      |
| 50°-60°   | 950.0  | 23.0      |
| 60°-70°   | 993.8  | 24.1      |
| 70°-80°   | 519.4  | 12.6      |
| 80°-90°   | 53.9   | 1.3       |
| 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°    | 4124.0 | 100.0     |
| 0°-180°   | 4124.0 | 100.0     |

**Coefficient of Utilization**



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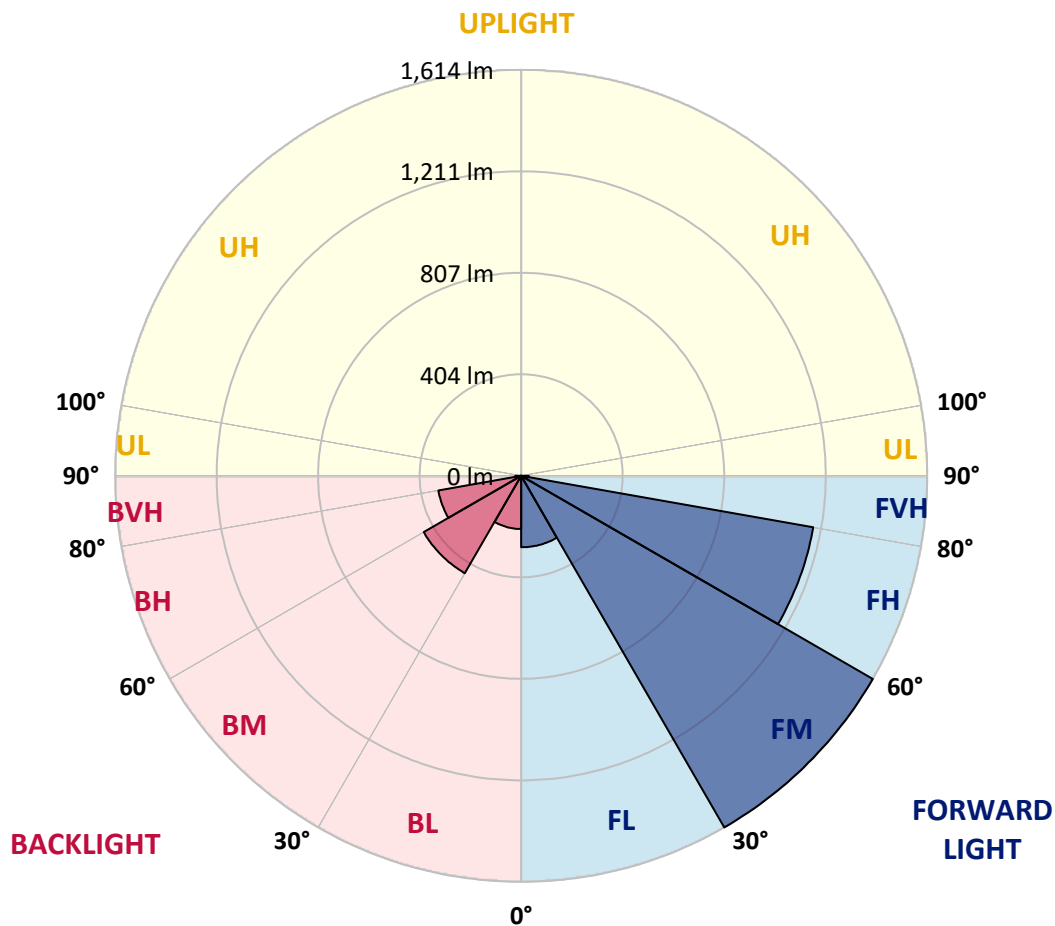
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 284.0  | 6.9       |                         |      |         |
| FM   | (30°-60°)   | 1614.1 | 39.1      |                         |      |         |
| FH   | (60°-80°)   | 1179.1 | 28.6      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 30.2   | 0.7       |                         |      | G1/100  |
| BL   | (0°-30°)    | 211.5  | 5.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 447.3  | 10.8      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 334.1  | 8.1       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 23.7   | 0.6       |                         |      | 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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 82°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 604.6  | 604.6  | 604.6  | 604.6  | 604.6  | 604.6  | 604.6  | 604.6  | 604.6  | 604.6  | 604.6  |
| 2.5°  | 619.1  | 622.6  | 621.5  | 620.4  | 620.4  | 618.9  | 618.6  | 616.4  | 614.7  | 611.9  | 611.2  |
| 5°    | 627.0  | 630.7  | 630.2  | 631.1  | 634.0  | 634.6  | 635.3  | 634.0  | 630.5  | 627.0  | 625.4  |
| 7.5°  | 619.9  | 624.1  | 625.4  | 630.7  | 639.4  | 647.3  | 653.2  | 655.6  | 652.3  | 647.3  | 644.9  |
| 10°   | 596.3  | 600.9  | 605.5  | 618.0  | 633.5  | 652.1  | 667.9  | 677.3  | 676.6  | 671.8  | 667.7  |
| 12.5° | 548.4  | 553.2  | 563.1  | 587.3  | 615.8  | 648.6  | 677.9  | 697.6  | 704.4  | 700.9  | 693.7  |
| 15°   | 510.1  | 514.3  | 521.7  | 546.6  | 583.6  | 633.5  | 681.7  | 720.0  | 737.2  | 735.3  | 726.5  |
| 17.5° | 509.0  | 510.8  | 515.3  | 527.2  | 555.6  | 609.9  | 677.7  | 741.8  | 774.9  | 774.7  | 763.7  |
| 20°   | 528.3  | 528.9  | 531.5  | 533.9  | 550.1  | 591.9  | 667.7  | 760.0  | 817.1  | 817.1  | 805.3  |
| 22.5° | 555.0  | 554.5  | 557.1  | 555.0  | 562.8  | 590.4  | 661.3  | 776.0  | 864.2  | 867.7  | 852.8  |
| 25°   | 595.0  | 592.8  | 592.2  | 587.1  | 588.7  | 604.6  | 668.3  | 794.1  | 920.0  | 927.2  | 908.6  |
| 27.5° | 648.4  | 644.9  | 642.5  | 630.9  | 627.0  | 634.0  | 689.8  | 816.0  | 982.1  | 994.6  | 971.0  |
| 30°   | 718.0  | 711.6  | 708.1  | 688.0  | 673.8  | 674.9  | 722.1  | 845.1  | 1047.1 | 1067.2 | 1037.3 |
| 32.5° | 813.0  | 803.1  | 793.7  | 760.7  | 734.6  | 726.1  | 763.9  | 885.4  | 1117.6 | 1149.7 | 1111.2 |
| 35°   | 919.3  | 911.4  | 901.4  | 850.4  | 810.3  | 790.6  | 820.4  | 941.6  | 1200.1 | 1251.1 | 1200.9 |
| 37.5° | 1021.7 | 1014.9 | 1019.8 | 951.0  | 899.4  | 870.7  | 894.4  | 1017.1 | 1301.8 | 1377.1 | 1313.4 |
| 40°   | 1127.6 | 1122.4 | 1123.0 | 1057.4 | 997.2  | 965.0  | 984.1  | 1111.9 | 1418.5 | 1527.0 | 1448.7 |
| 42.5° | 1242.7 | 1238.8 | 1225.7 | 1167.5 | 1099.8 | 1069.9 | 1087.4 | 1221.3 | 1543.6 | 1697.7 | 1597.0 |
| 45°   | 1371.6 | 1369.2 | 1357.0 | 1290.2 | 1212.8 | 1179.1 | 1202.7 | 1342.1 | 1669.5 | 1858.3 | 1746.1 |
| 47.5° | 1483.0 | 1485.0 | 1483.5 | 1427.2 | 1346.9 | 1297.4 | 1325.7 | 1468.1 | 1786.5 | 2009.3 | 1888.9 |
| 50°   | 1536.6 | 1546.9 | 1562.0 | 1544.5 | 1494.6 | 1444.3 | 1449.8 | 1589.8 | 1898.1 | 2150.9 | 2025.9 |
| 52.5° | 1508.6 | 1528.1 | 1569.2 | 1597.2 | 1616.5 | 1606.0 | 1591.3 | 1710.6 | 2003.2 | 2278.7 | 2155.5 |
| 55°   | 1404.2 | 1431.6 | 1499.9 | 1567.5 | 1665.7 | 1742.1 | 1761.4 | 1844.5 | 2105.6 | 2391.2 | 2278.0 |
| 57.5° | 1214.1 | 1258.5 | 1319.8 | 1456.5 | 1622.0 | 1808.0 | 1959.6 | 2030.3 | 2214.1 | 2511.3 | 2406.3 |
| 60°   | 888.0  | 947.5  | 1023.7 | 1227.2 | 1468.8 | 1772.7 | 2128.4 | 2315.7 | 2368.4 | 2666.9 | 2573.2 |
| 62.5° | 568.3  | 605.1  | 675.1  | 866.8  | 1144.5 | 1592.2 | 2180.0 | 2672.4 | 2629.9 | 2922.0 | 2823.6 |
| 65°   | 389.1  | 412.7  | 476.8  | 584.5  | 739.9  | 1185.2 | 2041.7 | 2939.8 | 3045.3 | 3326.4 | 3251.6 |
| 67.5° | 282.7  | 300.7  | 355.4  | 449.7  | 482.1  | 701.4  | 1584.3 | 2927.5 | 3449.0 | 3743.1 | 3626.7 |
| 70°   | 206.1  | 218.8  | 264.8  | 355.4  | 370.9  | 390.2  | 959.8  | 2488.5 | 3440.2 | 3853.8 | 3714.4 |
| 72.5° | 152.7  | 161.5  | 192.4  | 275.7  | 300.2  | 263.5  | 475.1  | 1808.6 | 2956.2 | 3485.8 | 3373.9 |
| 75°   | 110.5  | 117.1  | 139.8  | 211.0  | 240.3  | 200.7  | 237.0  | 1057.0 | 2062.0 | 2452.0 | 2471.7 |
| 77.5° | 84.5   | 89.5   | 104.4  | 154.5  | 192.4  | 150.6  | 147.1  | 486.2  | 977.7  | 982.6  | 1037.7 |
| 80°   | 67.8   | 71.1   | 79.2   | 108.8  | 147.5  | 112.7  | 95.8   | 196.3  | 309.0  | 261.5  | 274.4  |
| 82.5° | 49.9   | 55.4   | 67.0   | 76.4   | 105.5  | 77.7   | 58.4   | 99.1   | 117.5  | 101.1  | 102.0  |
| 85°   | 28.4   | 32.2   | 40.5   | 54.7   | 67.4   | 47.5   | 33.5   | 44.0   | 54.7   | 44.9   | 40.0   |
| 87.5° | 10.1   | 13.1   | 14.2   | 21.4   | 29.3   | 19.7   | 12.9   | 12.7   | 17.9   | 13.3   | 11.2   |
| 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°    | 604.6  | 604.6  | 604.6 | 604.6 | 604.6 | 604.6 | 604.6 | 604.6 | 604.6 | 604.6 | 604.6 |
| 2.5°  | 609.0  | 607.9  | 603.5 | 597.6 | 591.5 | 585.6 | 583.6 | 579.5 | 576.6 | 575.1 | 576.8 |
| 5°    | 621.3  | 617.8  | 607.5 | 594.3 | 580.6 | 565.7 | 555.2 | 545.5 | 538.5 | 532.0 | 534.6 |
| 7.5°  | 638.8  | 632.6  | 614.9 | 591.9 | 567.4 | 542.7 | 524.3 | 510.3 | 500.9 | 494.8 | 496.1 |
| 10°   | 659.1  | 649.7  | 622.6 | 588.2 | 550.4 | 514.9 | 493.2 | 481.2 | 475.3 | 472.0 | 472.9 |
| 12.5° | 682.5  | 669.2  | 630.5 | 579.7 | 524.3 | 483.8 | 469.0 | 465.5 | 465.7 | 465.9 | 466.3 |
| 15°   | 711.4  | 692.8  | 636.8 | 561.1 | 490.4 | 460.0 | 457.4 | 463.0 | 469.0 | 471.8 | 471.6 |
| 17.5° | 744.0  | 717.8  | 637.9 | 530.4 | 457.1 | 444.7 | 453.0 | 465.2 | 474.2 | 478.1 | 479.0 |
| 20°   | 779.0  | 743.1  | 630.0 | 487.1 | 429.8 | 432.2 | 447.1 | 462.8 | 472.7 | 477.7 | 479.0 |
| 22.5° | 819.1  | 770.3  | 611.2 | 441.6 | 407.5 | 418.6 | 436.1 | 451.4 | 461.7 | 466.8 | 468.1 |
| 25°   | 864.8  | 800.7  | 581.7 | 403.3 | 388.2 | 403.3 | 420.8 | 433.5 | 441.8 | 446.4 | 447.7 |
| 27.5° | 915.6  | 832.4  | 542.3 | 372.9 | 371.4 | 387.5 | 402.0 | 411.8 | 416.2 | 419.7 | 421.0 |
| 30°   | 966.6  | 861.3  | 494.6 | 349.9 | 356.7 | 372.0 | 382.3 | 386.7 | 388.0 | 388.6 | 390.2 |
| 32.5° | 1021.7 | 886.3  | 444.4 | 330.9 | 342.7 | 356.9 | 363.0 | 365.0 | 358.9 | 354.7 | 356.0 |
| 35°   | 1088.5 | 913.0  | 395.4 | 315.8 | 328.9 | 341.2 | 343.1 | 341.4 | 334.2 | 325.6 | 326.1 |
| 37.5° | 1171.0 | 946.2  | 356.3 | 305.1 | 316.0 | 324.1 | 321.7 | 321.2 | 321.9 | 311.8 | 312.5 |
| 40°   | 1272.1 | 989.6  | 327.6 | 296.7 | 305.5 | 307.2 | 300.5 | 304.2 | 307.5 | 292.1 | 292.6 |
| 42.5° | 1384.3 | 1041.9 | 309.4 | 291.0 | 296.7 | 292.6 | 282.1 | 286.2 | 285.8 | 265.7 | 265.4 |
| 45°   | 1498.8 | 1098.8 | 303.1 | 286.9 | 288.6 | 280.3 | 268.7 | 269.8 | 260.6 | 242.5 | 243.1 |
| 47.5° | 1612.6 | 1159.8 | 307.0 | 283.4 | 278.6 | 269.2 | 260.2 | 255.4 | 241.8 | 228.2 | 228.2 |
| 50°   | 1724.2 | 1223.9 | 321.5 | 276.4 | 264.8 | 259.3 | 252.7 | 244.2 | 229.8 | 218.2 | 217.3 |
| 52.5° | 1827.7 | 1288.5 | 337.7 | 264.8 | 247.5 | 250.8 | 246.6 | 236.8 | 222.6 | 210.7 | 211.0 |
| 55°   | 1925.7 | 1353.0 | 344.0 | 248.8 | 231.3 | 243.3 | 240.9 | 222.8 | 205.7 | 196.1 | 195.2 |
| 57.5° | 2032.5 | 1430.7 | 337.0 | 228.5 | 218.2 | 234.8 | 225.6 | 205.5 | 195.6 | 188.4 | 187.8 |
| 60°   | 2180.4 | 1552.6 | 321.9 | 203.3 | 205.7 | 222.1 | 206.4 | 198.0 | 187.3 | 179.2 | 178.8 |
| 62.5° | 2426.2 | 1780.0 | 297.6 | 178.3 | 191.0 | 203.3 | 197.2 | 188.9 | 177.9 | 170.0 | 170.0 |
| 65°   | 2789.4 | 2096.0 | 251.9 | 158.9 | 174.6 | 184.9 | 187.3 | 179.0 | 167.6 | 159.3 | 159.7 |
| 67.5° | 3095.8 | 2294.2 | 190.6 | 142.7 | 157.8 | 170.0 | 176.8 | 168.7 | 156.7 | 148.6 | 148.8 |
| 70°   | 3079.0 | 2150.2 | 145.5 | 126.7 | 142.9 | 155.4 | 164.1 | 157.8 | 144.9 | 137.2 | 137.9 |
| 72.5° | 2734.7 | 1798.8 | 117.7 | 110.5 | 127.8 | 140.1 | 150.6 | 145.7 | 132.6 | 125.2 | 125.2 |
| 75°   | 2009.1 | 1276.9 | 94.1  | 94.1  | 109.0 | 124.1 | 135.7 | 132.6 | 120.6 | 115.3 | 113.8 |
| 77.5° | 846.9  | 535.7  | 73.7  | 78.1  | 90.6  | 106.6 | 121.0 | 122.1 | 111.6 | 118.2 | 107.2 |
| 80°   | 225.2  | 147.7  | 56.2  | 61.5  | 71.1  | 88.0  | 105.3 | 104.8 | 93.4  | 87.3  | 81.2  |
| 82.5° | 85.8   | 58.2   | 40.0  | 43.3  | 51.4  | 67.4  | 83.4  | 86.0  | 74.6  | 64.6  | 64.6  |
| 85°   | 33.0   | 24.9   | 24.7  | 26.0  | 30.0  | 44.6  | 63.0  | 65.2  | 56.2  | 47.7  | 49.2  |
| 87.5° | 8.5    | 7.4    | 9.2   | 8.8   | 13.8  | 23.9  | 36.1  | 37.4  | 34.4  | 19.9  | 28.4  |
| 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)