

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: P944856

Luminaire Tested: **GALN-SB1A-727-U-SL2-HSS**

Issue Date: 1/21/2025

### Test Information

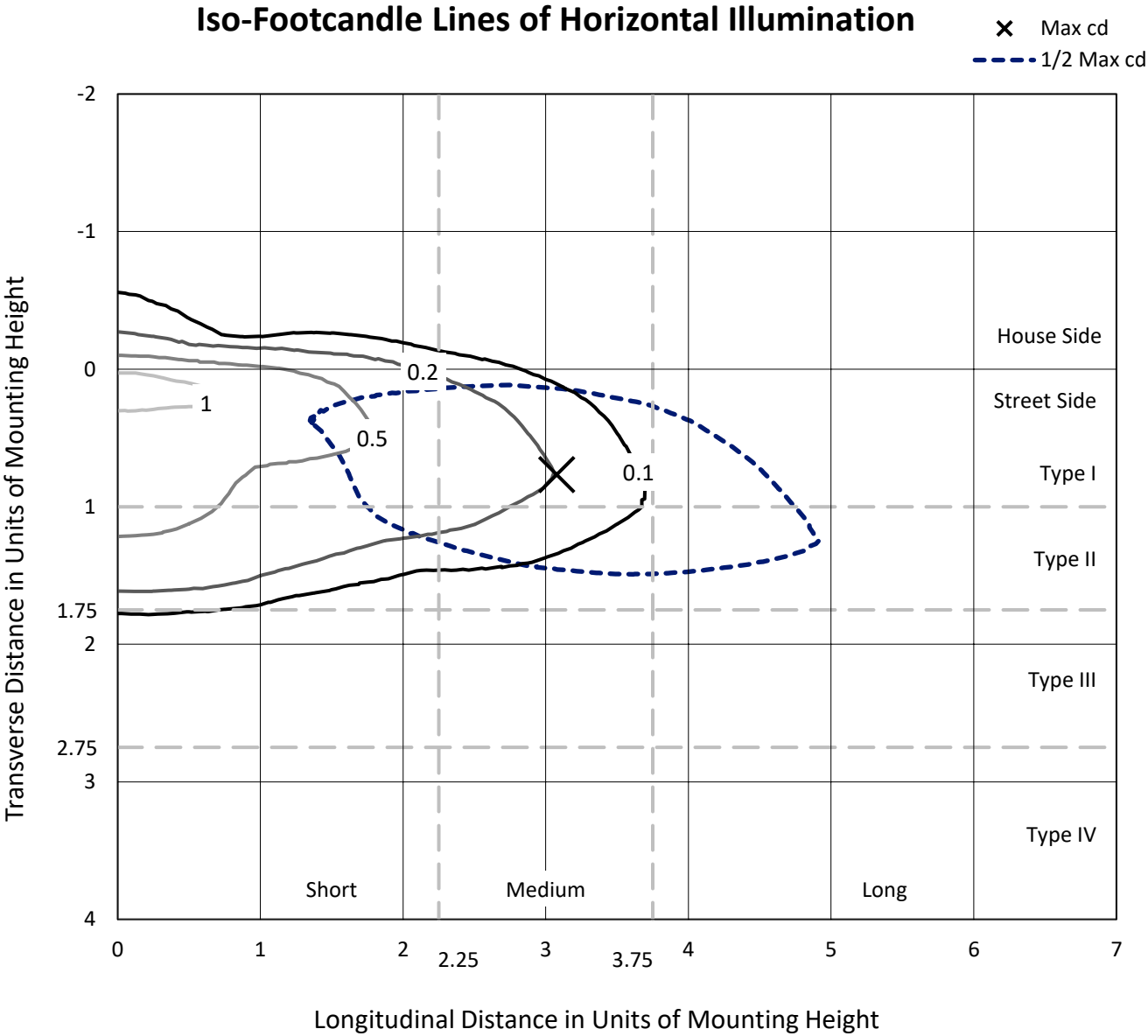
Test Method: LM-79-08  
Report Number: P944856  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1A-727-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT  
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 3373 lumens  
Efficiency: N/A  
Efficacy: 109.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B0 - 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

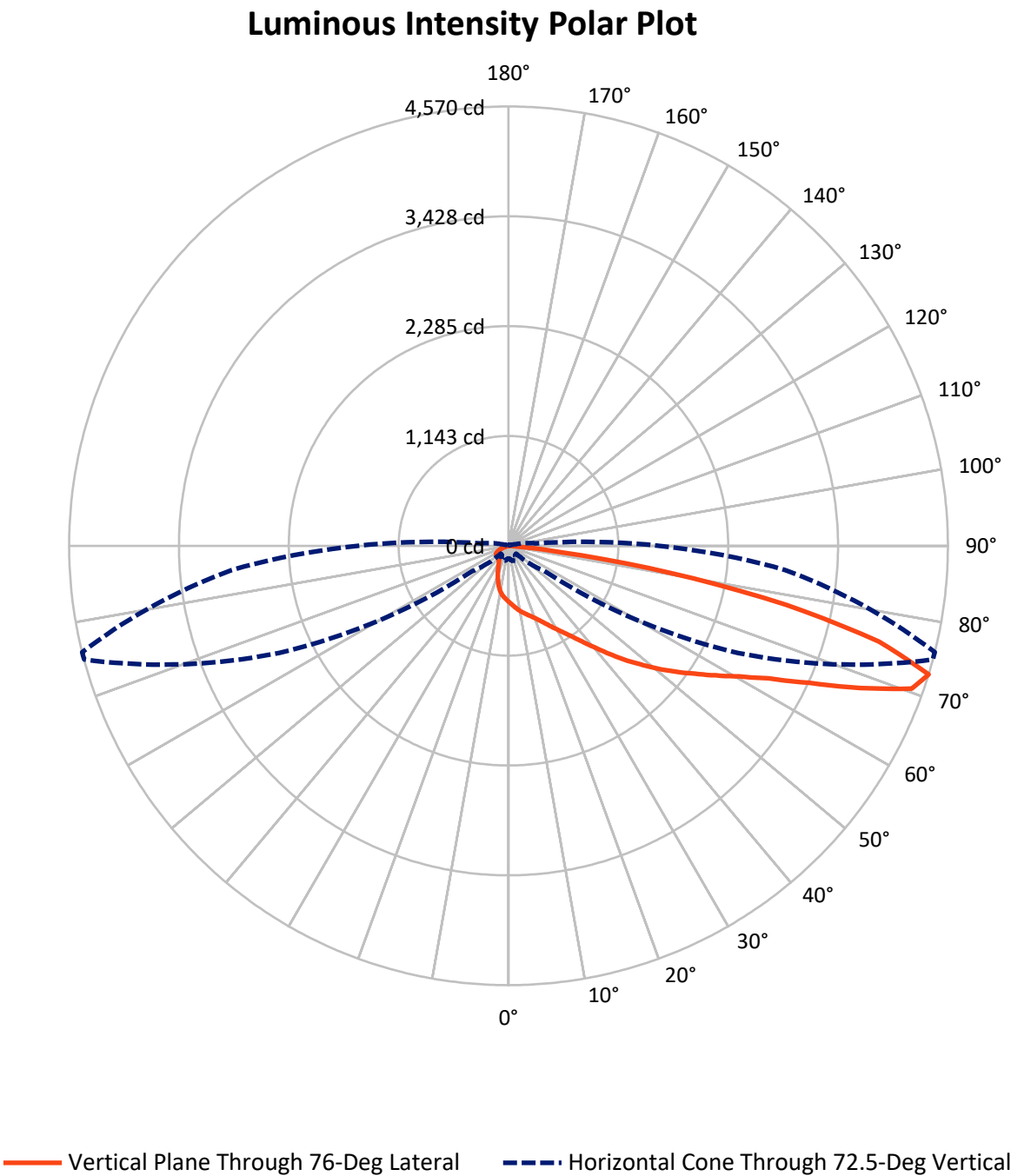


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Based on 25 foot mounting height. Maximum calculated value = 1.2 fc  
Type II - Medium - N/A

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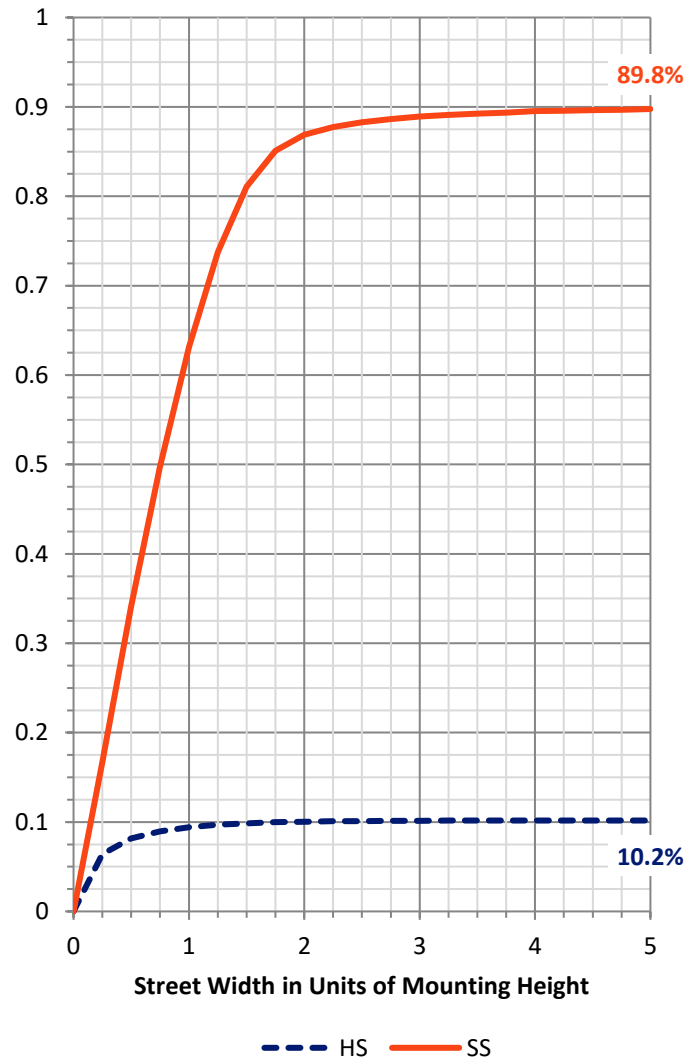
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 345.2    | 0.0    | 345.2  |
|                    | % Fixture | 10.2     | 0.0    | 10.2   |
| <b>Street Side</b> | Lumens    | 3027.8   | 0.0    | 3027.8 |
|                    | % Fixture | 89.8     | 0.0    | 89.8   |
| <b>Total</b>       | Lumens    | 3373.0   | 0.0    | 3373.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 53.0   | 1.6       |
| 10°-20°   | 142.1  | 4.2       |
| 20°-30°   | 225.0  | 6.7       |
| 30°-40°   | 348.1  | 10.3      |
| 40°-50°   | 528.7  | 15.7      |
| 50°-60°   | 728.8  | 21.6      |
| 60°-70°   | 770.0  | 22.8      |
| 70°-80°   | 528.2  | 15.7      |
| 80°-90°   | 49.2   | 1.5       |
| 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°    | 3373.0 | 100.0     |
| 0°-180°   | 3373.0 | 100.0     |

**Coefficient of Utilization**



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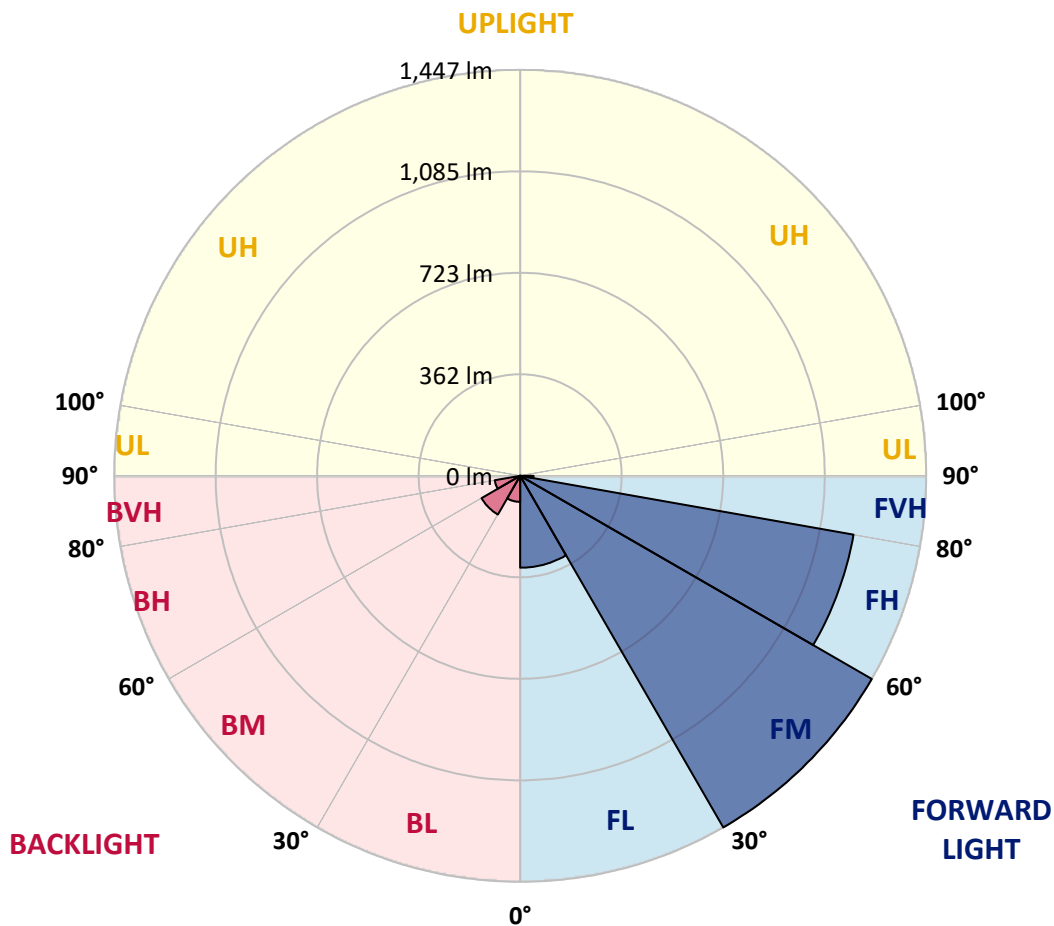
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 327.3  | 9.7       |                         |      |         |
| FM   | (30°-60°)   | 1446.6 | 42.9      |                         |      |         |
| FH   | (60°-80°)   | 1206.0 | 35.8      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 47.8   | 1.4       |                         |      | G1/100  |
| BL   | (0°-30°)    | 92.8   | 2.8       | B0/110                  |      |         |
| BM   | (30°-60°)   | 158.9  | 4.7       | B0/220                  |      |         |
| BH   | (60°-80°)   | 92.2   | 2.7       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 1.3    | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B0-U0-G1**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 76°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 582.9  | 582.9  | 582.9  | 582.9  | 582.9  | 582.9  | 582.9  | 582.9  | 582.9  | 582.9  | 582.9  |
| 2.5°  | 677.6  | 668.7  | 670.4  | 661.4  | 657.3  | 647.2  | 636.7  | 622.9  | 607.6  | 607.6  | 592.7  |
| 5°    | 749.0  | 743.3  | 743.3  | 732.8  | 724.7  | 708.9  | 690.1  | 665.8  | 636.9  | 634.1  | 605.9  |
| 7.5°  | 792.7  | 789.2  | 791.4  | 785.3  | 778.7  | 762.3  | 740.0  | 708.3  | 667.3  | 663.8  | 621.4  |
| 10°   | 801.2  | 801.0  | 807.2  | 808.9  | 813.3  | 805.0  | 785.1  | 748.5  | 697.3  | 692.3  | 634.7  |
| 12.5° | 768.2  | 764.1  | 779.1  | 796.9  | 821.8  | 833.0  | 822.7  | 785.3  | 724.7  | 717.7  | 647.2  |
| 15°   | 713.9  | 714.8  | 729.3  | 756.6  | 798.2  | 838.0  | 851.4  | 821.2  | 752.5  | 744.1  | 659.0  |
| 17.5° | 682.9  | 679.6  | 692.1  | 716.6  | 762.5  | 818.8  | 864.7  | 854.6  | 782.0  | 772.6  | 671.1  |
| 20°   | 679.2  | 678.9  | 681.8  | 692.9  | 727.9  | 791.2  | 863.2  | 887.2  | 816.8  | 805.8  | 688.3  |
| 22.5° | 705.0  | 704.5  | 702.1  | 699.9  | 709.6  | 764.3  | 856.6  | 918.3  | 858.4  | 846.5  | 712.9  |
| 25°   | 744.6  | 743.9  | 740.2  | 726.9  | 717.4  | 749.8  | 850.5  | 947.2  | 907.6  | 894.5  | 742.6  |
| 27.5° | 792.9  | 792.5  | 785.7  | 765.6  | 741.3  | 751.1  | 847.4  | 976.9  | 964.5  | 951.6  | 777.0  |
| 30°   | 852.2  | 851.4  | 837.3  | 808.9  | 777.2  | 771.9  | 851.6  | 1010.4 | 1023.8 | 1013.9 | 816.6  |
| 32.5° | 926.6  | 924.2  | 905.8  | 862.9  | 818.5  | 799.7  | 859.4  | 1044.8 | 1094.0 | 1084.8 | 869.5  |
| 35°   | 984.2  | 980.4  | 969.7  | 931.9  | 866.4  | 833.8  | 877.8  | 1085.5 | 1178.5 | 1170.4 | 937.1  |
| 37.5° | 1033.6 | 1029.9 | 1021.1 | 990.1  | 935.2  | 877.4  | 907.4  | 1139.7 | 1278.2 | 1274.3 | 1019.6 |
| 40°   | 1087.0 | 1080.9 | 1076.7 | 1043.5 | 993.8  | 940.2  | 949.6  | 1203.2 | 1393.1 | 1393.5 | 1118.7 |
| 42.5° | 1128.1 | 1125.7 | 1126.2 | 1100.6 | 1050.5 | 1014.6 | 1005.6 | 1274.7 | 1530.7 | 1534.9 | 1238.0 |
| 45°   | 1163.4 | 1161.4 | 1169.5 | 1151.5 | 1107.6 | 1063.4 | 1071.2 | 1355.7 | 1681.3 | 1689.8 | 1371.4 |
| 47.5° | 1190.5 | 1192.7 | 1204.3 | 1192.7 | 1166.9 | 1097.7 | 1129.4 | 1443.0 | 1839.5 | 1840.5 | 1509.3 |
| 50°   | 1217.6 | 1218.5 | 1237.8 | 1232.1 | 1221.6 | 1141.3 | 1183.1 | 1540.6 | 2006.2 | 2008.1 | 1638.2 |
| 52.5° | 1226.2 | 1224.8 | 1255.5 | 1269.5 | 1269.9 | 1195.1 | 1252.4 | 1646.9 | 2169.6 | 2176.0 | 1770.8 |
| 55°   | 1182.4 | 1186.1 | 1235.6 | 1292.5 | 1315.0 | 1269.5 | 1346.1 | 1781.5 | 2343.8 | 2346.4 | 1902.0 |
| 57.5° | 968.4  | 989.0  | 1098.4 | 1230.3 | 1344.1 | 1376.0 | 1480.6 | 1938.8 | 2544.9 | 2542.5 | 2035.1 |
| 60°   | 587.7  | 612.2  | 743.0  | 1031.9 | 1249.1 | 1483.0 | 1678.9 | 2182.5 | 2764.5 | 2757.8 | 2169.6 |
| 62.5° | 328.6  | 336.1  | 377.9  | 617.7  | 950.0  | 1415.0 | 1872.5 | 2495.6 | 3059.5 | 3036.5 | 2302.0 |
| 65°   | 242.2  | 244.6  | 254.5  | 302.6  | 466.9  | 1088.3 | 1830.0 | 2870.0 | 3473.9 | 3433.0 | 2460.6 |
| 67.5° | 210.5  | 212.9  | 222.5  | 229.1  | 208.5  | 571.7  | 1507.8 | 3077.6 | 4000.1 | 3946.5 | 2675.3 |
| 70°   | 177.2  | 178.5  | 194.1  | 198.5  | 149.2  | 217.5  | 968.6  | 3013.5 | 4487.2 | 4448.9 | 2905.7 |
| 72.5° | 132.2  | 137.4  | 159.9  | 170.4  | 119.7  | 115.5  | 456.0  | 2634.8 | 4569.6 | 4570.1 | 2890.1 |
| 75°   | 89.7   | 94.5   | 120.3  | 140.3  | 92.3   | 81.0   | 184.0  | 1967.5 | 3979.1 | 3979.1 | 2533.5 |
| 77.5° | 61.3   | 65.2   | 83.8   | 110.1  | 70.0   | 55.6   | 95.4   | 1248.7 | 2854.7 | 2955.1 | 1805.8 |
| 80°   | 27.1   | 29.5   | 54.0   | 79.9   | 53.2   | 35.9   | 54.0   | 683.8  | 1726.3 | 1705.1 | 707.8  |
| 82.5° | 13.3   | 15.3   | 34.6   | 49.9   | 34.4   | 22.1   | 28.4   | 325.1  | 559.5  | 531.7  | 110.5  |
| 85°   | 2.6    | 3.5    | 18.6   | 21.2   | 16.0   | 9.8    | 10.7   | 100.0  | 67.4   | 77.0   | 23.4   |
| 87.5° | 0.0    | 0.0    | 5.7    | 3.9    | 1.8    | 2.2    | 2.2    | 9.0    | 5.3    | 6.1    | 6.1    |
| 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°    | 582.9  | 582.9 | 582.9 | 582.9 | 582.9 | 582.9 | 582.9 | 582.9 | 582.9 | 582.9 | 582.9 |
| 2.5°  | 584.9  | 576.8 | 559.0 | 541.5 | 523.6 | 507.2 | 495.8 | 484.4 | 477.4 | 474.4 | 474.8 |
| 5°    | 589.4  | 573.0 | 535.8 | 496.9 | 458.4 | 420.8 | 392.5 | 366.1 | 357.7 | 344.0 | 344.8 |
| 7.5°  | 596.7  | 570.0 | 511.3 | 445.7 | 383.1 | 328.0 | 288.2 | 256.4 | 243.7 | 231.5 | 231.3 |
| 10°   | 601.5  | 564.3 | 479.0 | 391.2 | 306.5 | 244.6 | 206.5 | 183.6 | 175.3 | 167.8 | 167.6 |
| 12.5° | 603.5  | 553.8 | 441.8 | 330.2 | 238.5 | 186.4 | 163.7 | 152.9 | 150.1 | 147.5 | 147.5 |
| 15°   | 605.2  | 543.5 | 400.2 | 271.3 | 188.4 | 156.0 | 147.0 | 143.5 | 141.6 | 139.8 | 139.8 |
| 17.5° | 606.7  | 530.4 | 352.7 | 220.6 | 159.1 | 143.8 | 139.4 | 135.7 | 134.1 | 132.2 | 132.2 |
| 20°   | 612.0  | 517.7 | 310.3 | 182.0 | 143.1 | 135.0 | 130.2 | 126.2 | 124.9 | 123.6 | 123.8 |
| 22.5° | 621.8  | 507.4 | 269.1 | 156.0 | 133.5 | 126.0 | 119.9 | 115.5 | 114.7 | 113.8 | 113.1 |
| 25°   | 633.6  | 494.7 | 230.4 | 139.2 | 124.1 | 115.7 | 109.0 | 105.2 | 104.4 | 104.6 | 104.1 |
| 27.5° | 648.7  | 480.7 | 197.1 | 128.4 | 115.7 | 106.1 | 98.5  | 95.6  | 96.1  | 96.9  | 96.5  |
| 30°   | 665.4  | 467.8 | 171.1 | 121.0 | 108.3 | 97.6  | 89.9  | 88.0  | 89.5  | 90.8  | 90.4  |
| 32.5° | 690.1  | 456.4 | 152.9 | 115.1 | 101.7 | 90.6  | 84.5  | 82.1  | 83.8  | 85.6  | 85.1  |
| 35°   | 723.8  | 450.7 | 142.7 | 110.1 | 96.1  | 85.1  | 79.0  | 77.2  | 79.0  | 79.4  | 79.2  |
| 37.5° | 765.1  | 450.3 | 138.3 | 105.9 | 90.8  | 80.5  | 73.7  | 73.1  | 74.4  | 74.6  | 74.2  |
| 40°   | 818.5  | 453.1 | 135.0 | 102.8 | 85.3  | 75.3  | 68.9  | 68.3  | 68.7  | 70.2  | 70.0  |
| 42.5° | 886.1  | 465.0 | 130.4 | 98.9  | 79.4  | 70.0  | 65.0  | 63.5  | 63.2  | 65.0  | 64.8  |
| 45°   | 971.0  | 491.0 | 124.3 | 92.6  | 74.2  | 65.6  | 60.6  | 58.9  | 58.2  | 58.6  | 59.3  |
| 47.5° | 1063.6 | 522.9 | 118.2 | 86.6  | 70.5  | 62.1  | 57.1  | 54.9  | 53.8  | 53.8  | 53.8  |
| 50°   | 1153.3 | 559.0 | 114.0 | 80.5  | 67.8  | 58.9  | 53.4  | 51.2  | 49.4  | 49.0  | 48.8  |
| 52.5° | 1242.1 | 594.5 | 110.7 | 74.4  | 64.8  | 54.7  | 49.9  | 47.5  | 45.5  | 44.6  | 44.2  |
| 55°   | 1323.1 | 628.2 | 105.0 | 68.5  | 60.8  | 50.3  | 46.4  | 44.0  | 41.6  | 40.0  | 39.4  |
| 57.5° | 1400.8 | 656.2 | 94.5  | 62.4  | 54.7  | 46.2  | 42.7  | 40.0  | 37.2  | 35.2  | 34.4  |
| 60°   | 1471.4 | 670.6 | 81.4  | 55.8  | 48.6  | 41.8  | 38.5  | 36.1  | 32.4  | 29.1  | 28.2  |
| 62.5° | 1525.3 | 664.9 | 67.2  | 48.4  | 42.2  | 37.9  | 33.7  | 31.3  | 26.9  | 23.0  | 21.4  |
| 65°   | 1580.4 | 633.9 | 53.6  | 40.5  | 37.0  | 32.6  | 28.2  | 25.8  | 20.8  | 16.6  | 15.5  |
| 67.5° | 1651.9 | 567.6 | 42.2  | 33.7  | 31.9  | 25.8  | 22.1  | 20.6  | 17.1  | 13.1  | 12.3  |
| 70°   | 1697.9 | 440.9 | 32.8  | 27.4  | 26.3  | 18.8  | 17.1  | 16.8  | 13.6  | 10.1  | 9.0   |
| 72.5° | 1571.9 | 289.0 | 25.2  | 20.8  | 18.8  | 12.3  | 13.1  | 13.1  | 9.8   | 6.8   | 5.9   |
| 75°   | 1312.1 | 169.1 | 18.2  | 14.9  | 10.7  | 7.9   | 9.0   | 9.0   | 6.1   | 3.3   | 2.6   |
| 77.5° | 937.1  | 90.1  | 12.0  | 9.2   | 5.5   | 3.5   | 4.8   | 4.6   | 2.0   | 0.2   | 0.0   |
| 80°   | 358.4  | 31.1  | 5.7   | 3.7   | 1.5   | 0.7   | 0.4   | 0.2   | 0.2   | 0.0   | 0.0   |
| 82.5° | 54.7   | 8.1   | 1.1   | 0.9   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 9.8    | 1.1   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 2.2    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 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)