

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: P951290

Luminaire Tested: **GALN-SB5C-727-U-T2R-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P951290  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5C-727-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 29709 lumens  
Efficiency: N/A  
Efficacy: 119.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 249.5  
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

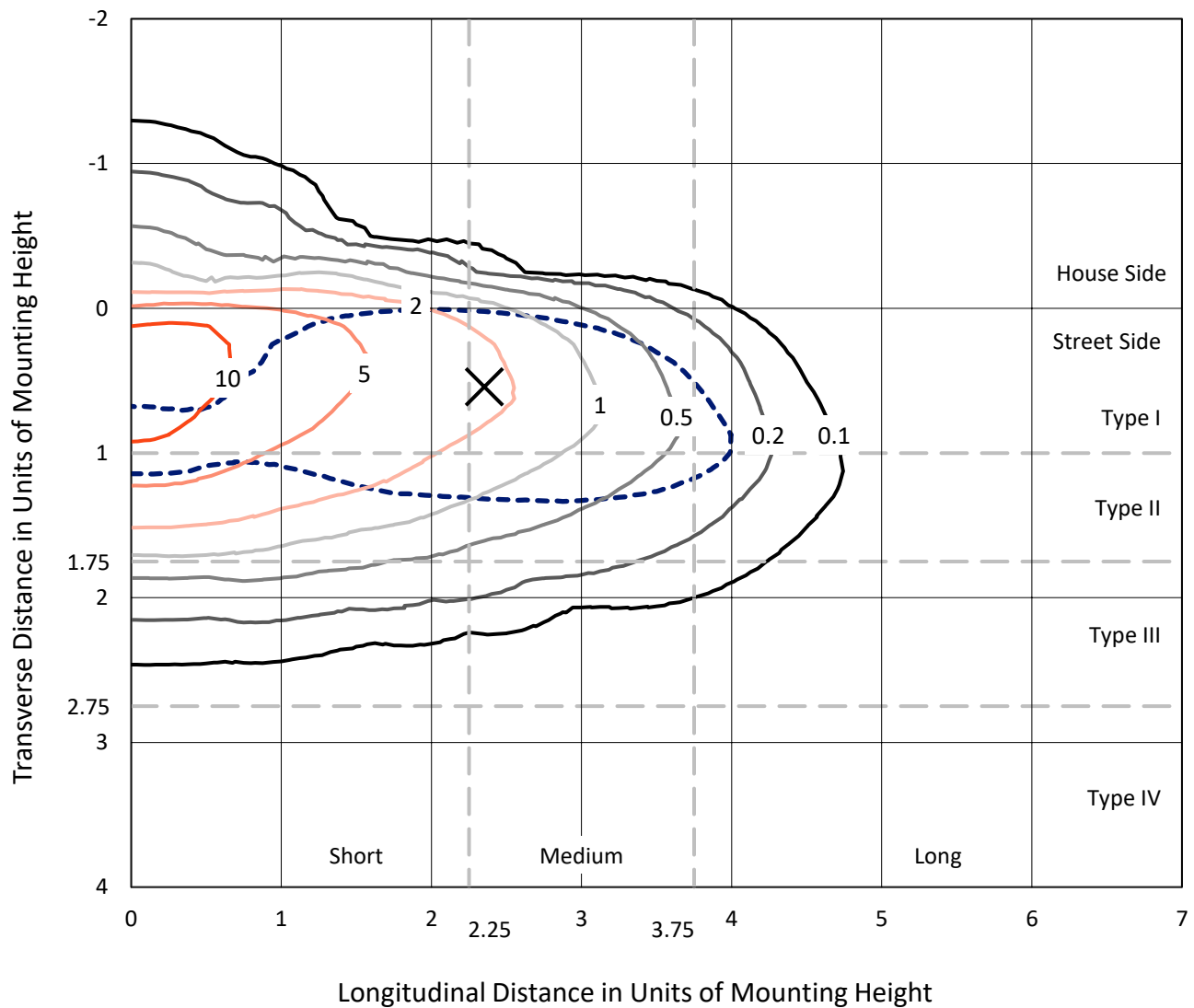


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## Iso-Footcandle Lines of Horizontal Illumination

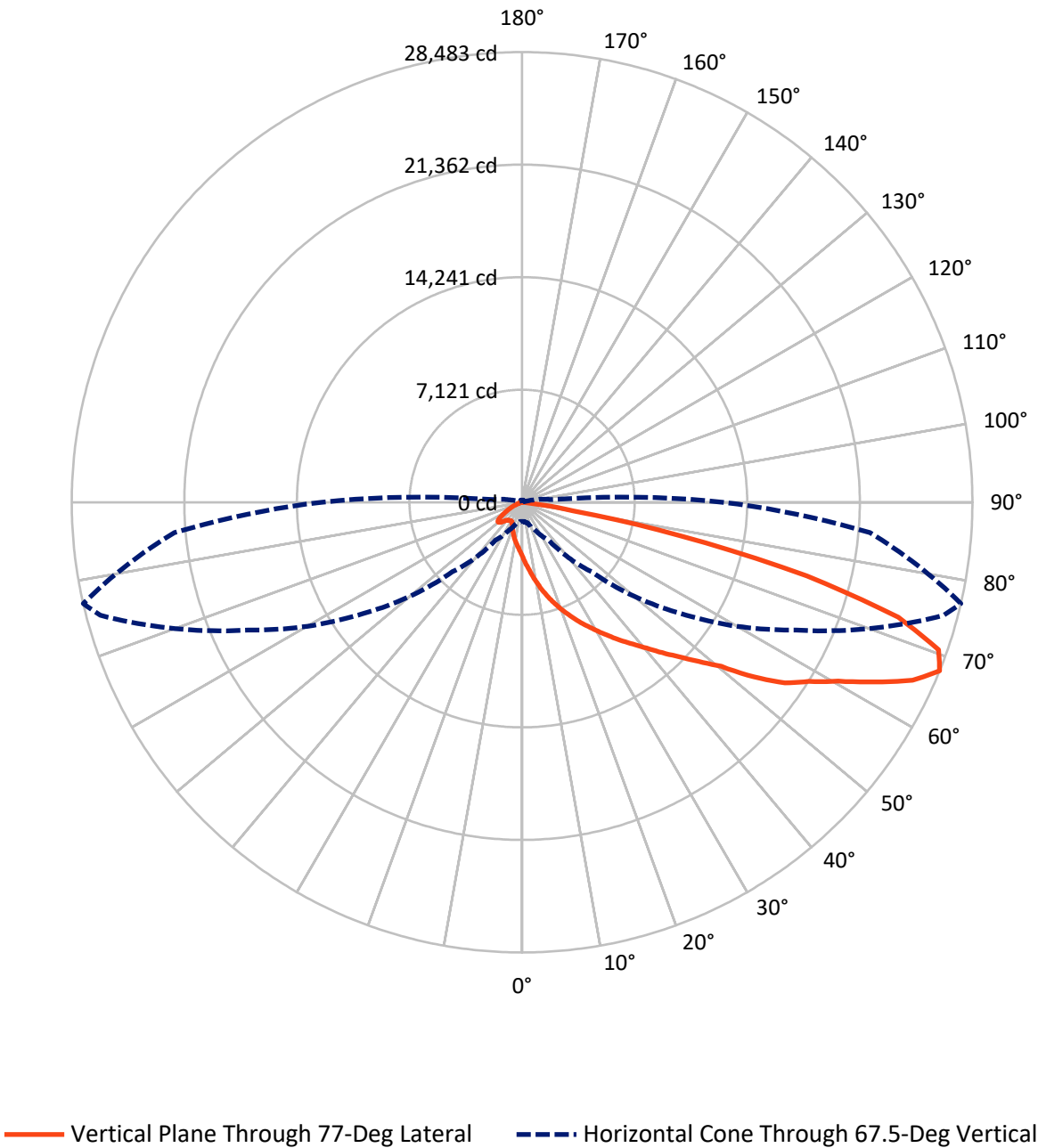
✕ Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc  
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2185.7   | 0.0    | 2185.7  |
|                    | % Fixture | 7.4      | 0.0    | 7.4     |
| <b>Street Side</b> | Lumens    | 27523.3  | 0.0    | 27523.3 |
|                    | % Fixture | 92.6     | 0.0    | 92.6    |
| <b>Total</b>       | Lumens    | 29709.0  | 0.0    | 29709.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 349.7   | 1.2       |
| 10°-20°   | 1224.5  | 4.1       |
| 20°-30°   | 2362.9  | 8.0       |
| 30°-40°   | 4102.2  | 13.8      |
| 40°-50°   | 5956.2  | 20.0      |
| 50°-60°   | 6839.9  | 23.0      |
| 60°-70°   | 5938.3  | 20.0      |
| 70°-80°   | 2797.0  | 9.4       |
| 80°-90°   | 138.3   | 0.5       |
| 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°    | 29709.0 | 100.0     |
| 0°-180°   | 29709.0 | 100.0     |

**Coefficient of Utilization**



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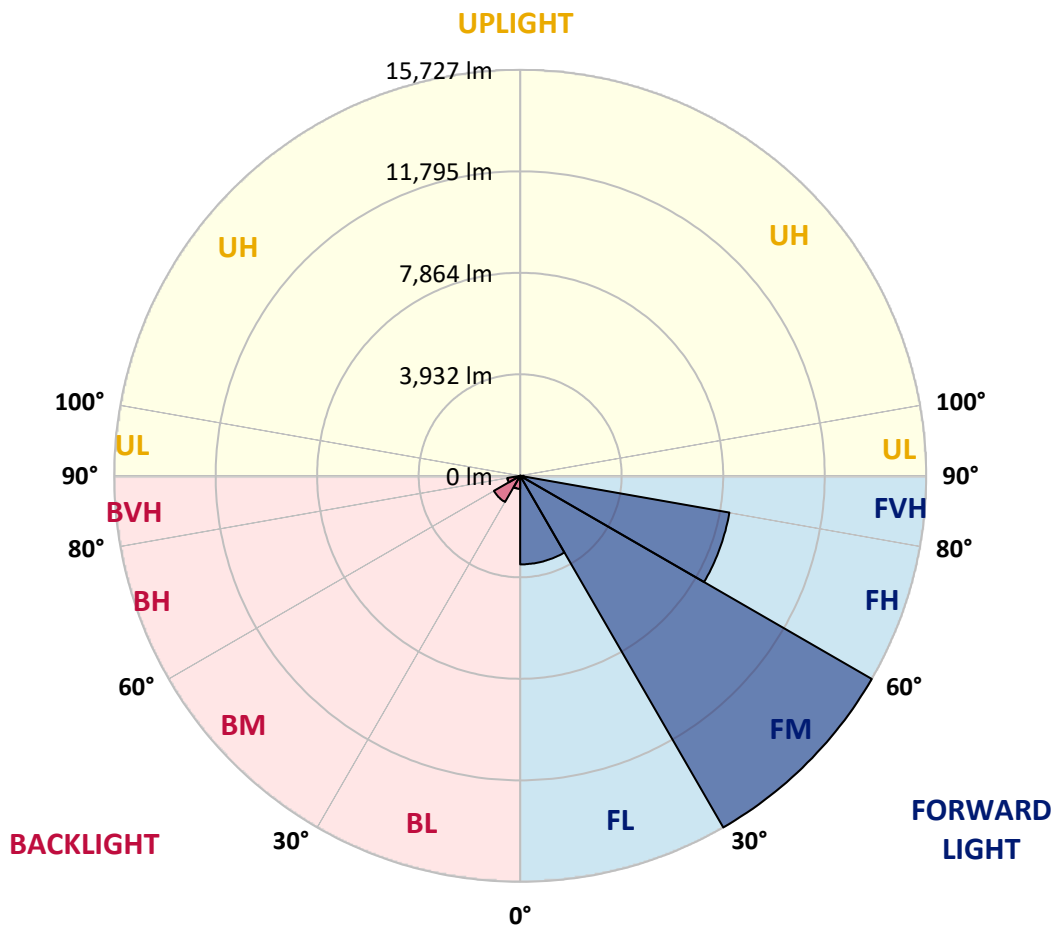
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 3431.1  | 11.5      |                         |      |          |
| FM   | (30°-60°)   | 15727.1 | 52.9      |                         |      |          |
| FH   | (60°-80°)   | 8229.3  | 27.7      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 135.8   | 0.5       |                         |      | G2/225   |
| BL   | (0°-30°)    | 506.0   | 1.7       | B2/1000                 |      |          |
| BM   | (30°-60°)   | 1171.1  | 3.9       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 506.0   | 1.7       | B2/1000                 |      | G2/1000  |
| BVH  | (80°-90°)   | 2.5     | 0.0       |                         |      | G0/10    |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B2-U0-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 77°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3425.9  | 3425.9  | 3425.9  | 3425.9  | 3425.9  | 3425.9  | 3425.9  | 3425.9  | 3425.9  | 3425.9  | 3425.9  |
| 2.5°  | 4743.1  | 4772.6  | 4730.2  | 4649.0  | 4527.3  | 4447.9  | 4254.2  | 4071.6  | 3868.6  | 3804.1  | 3601.1  |
| 5°    | 5781.8  | 5807.6  | 5759.6  | 5671.1  | 5508.7  | 5353.8  | 5099.2  | 4717.3  | 4320.6  | 4193.3  | 3833.6  |
| 7.5°  | 6551.1  | 6565.8  | 6547.4  | 6466.2  | 6311.2  | 6136.0  | 5851.9  | 5399.9  | 4811.4  | 4671.2  | 4119.5  |
| 10°   | 7104.5  | 7152.5  | 7146.9  | 7115.6  | 7012.3  | 6870.2  | 6567.7  | 6052.9  | 5361.1  | 5180.3  | 4442.4  |
| 12.5° | 7471.6  | 7525.1  | 7556.5  | 7626.6  | 7621.1  | 7530.7  | 7265.0  | 6720.8  | 5909.1  | 5696.9  | 4805.8  |
| 15°   | 7578.6  | 7635.8  | 7755.7  | 7918.1  | 8062.0  | 8108.1  | 7921.8  | 7375.7  | 6512.3  | 6241.1  | 5178.5  |
| 17.5° | 7517.8  | 7606.3  | 7750.2  | 8006.6  | 8322.1  | 8530.6  | 8510.3  | 8008.5  | 7060.2  | 6750.3  | 5543.8  |
| 20°   | 7652.4  | 7737.3  | 7849.8  | 8065.7  | 8432.8  | 8811.0  | 8962.3  | 8613.6  | 7604.5  | 7279.8  | 5927.5  |
| 22.5° | 8397.8  | 8383.0  | 8394.1  | 8429.1  | 8648.7  | 9023.2  | 9334.9  | 9163.4  | 8143.2  | 7811.1  | 6333.4  |
| 25°   | 9578.5  | 9512.0  | 9399.5  | 9209.5  | 9154.1  | 9334.9  | 9659.6  | 9650.4  | 8711.4  | 8355.3  | 6748.5  |
| 27.5° | 10932.6 | 10921.5 | 10657.7 | 10200.2 | 9941.9  | 9871.8  | 10026.8 | 10124.5 | 9274.1  | 8894.0  | 7165.4  |
| 30°   | 12229.5 | 12259.0 | 11903.0 | 11393.8 | 10919.7 | 10644.8 | 10504.6 | 10574.7 | 9846.0  | 9475.1  | 7595.2  |
| 32.5° | 13358.6 | 13389.9 | 13002.5 | 12406.6 | 11819.9 | 11487.9 | 11192.7 | 11019.3 | 10469.5 | 10065.5 | 8067.5  |
| 35°   | 14312.3 | 14343.7 | 13899.1 | 13240.5 | 12615.1 | 12314.4 | 11980.4 | 11506.3 | 11096.8 | 10720.4 | 8593.3  |
| 37.5° | 15164.7 | 15155.4 | 14559.5 | 13895.4 | 13281.1 | 13043.1 | 12867.8 | 12105.9 | 11742.5 | 11379.0 | 9176.3  |
| 40°   | 15668.3 | 15707.0 | 15197.9 | 14465.5 | 13869.6 | 13696.2 | 13685.1 | 12849.4 | 12487.8 | 12135.4 | 9814.6  |
| 42.5° | 15815.9 | 15884.1 | 15515.2 | 14913.8 | 14373.2 | 14185.0 | 14474.7 | 13653.7 | 13354.9 | 13011.7 | 10535.9 |
| 45°   | 15550.2 | 15616.6 | 15448.8 | 15031.8 | 14716.4 | 14594.6 | 15153.6 | 14487.6 | 14281.0 | 13941.5 | 11349.5 |
| 47.5° | 14775.4 | 14858.4 | 14899.0 | 14810.4 | 14806.8 | 14930.4 | 15762.4 | 15365.7 | 15380.5 | 15033.7 | 12292.2 |
| 50°   | 13275.5 | 13415.7 | 13788.4 | 14102.0 | 14587.2 | 15196.0 | 16354.6 | 16317.7 | 16620.2 | 16321.4 | 13520.9 |
| 52.5° | 10548.8 | 10748.1 | 12032.1 | 12890.0 | 13980.3 | 15146.2 | 17005.8 | 17845.2 | 18795.3 | 18358.1 | 15253.2 |
| 55°   | 8477.1  | 8477.1  | 9521.3  | 11126.3 | 12795.9 | 14817.8 | 17289.9 | 18837.8 | 20276.7 | 20173.4 | 16472.7 |
| 57.5° | 6910.8  | 6993.8  | 7659.8  | 9078.5  | 11082.0 | 14035.6 | 17465.2 | 19461.3 | 21470.4 | 21394.7 | 17664.4 |
| 60°   | 4265.3  | 4444.2  | 5702.4  | 7102.7  | 9132.0  | 12642.7 | 17354.5 | 20092.2 | 22918.6 | 22979.4 | 19099.7 |
| 62.5° | 2402.0  | 2468.4  | 3029.2  | 5110.2  | 7100.8  | 10770.2 | 16507.7 | 20444.6 | 24770.8 | 25029.1 | 20579.3 |
| 65°   | 1658.5  | 1691.7  | 1907.6  | 3180.5  | 4922.1  | 8574.9  | 14852.9 | 20225.1 | 26626.7 | 27148.8 | 21833.8 |
| 67.5° | 1204.7  | 1221.3  | 1356.0  | 1942.6  | 2920.4  | 6217.1  | 12259.0 | 19118.2 | 27610.0 | 28482.6 | 22073.6 |
| 70°   | 926.1   | 937.2   | 1035.0  | 1276.6  | 1724.9  | 3837.3  | 8903.2  | 16917.3 | 26897.9 | 27940.2 | 20844.9 |
| 72.5° | 752.7   | 763.8   | 839.4   | 944.6   | 1143.8  | 2269.2  | 5396.2  | 13738.6 | 23754.3 | 24879.6 | 17745.6 |
| 75°   | 634.6   | 649.4   | 717.6   | 785.9   | 896.6   | 1457.4  | 2531.1  | 9567.4  | 17863.7 | 18601.6 | 12340.2 |
| 77.5° | 352.4   | 324.7   | 583.0   | 651.2   | 756.4   | 922.4   | 1184.4  | 5630.5  | 10004.6 | 10209.4 | 5475.5  |
| 80°   | 219.5   | 226.9   | 463.1   | 523.9   | 581.1   | 464.9   | 542.4   | 2167.7  | 3468.3  | 3294.9  | 1060.8  |
| 82.5° | 12.9    | 29.5    | 356.1   | 378.2   | 398.5   | 199.2   | 204.8   | 736.1   | 835.7   | 767.5   | 188.2   |
| 85°   | 0.0     | 0.0     | 162.3   | 131.0   | 138.4   | 57.2    | 59.0    | 171.6   | 112.5   | 121.8   | 36.9    |
| 87.5° | 0.0     | 0.0     | 0.0     | 3.7     | 0.0     | 5.5     | 11.1    | 14.8    | 5.5     | 7.4     | 12.9    |
| 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°    | 3425.9  | 3425.9 | 3425.9 | 3425.9 | 3425.9 | 3425.9 | 3425.9 | 3425.9 | 3425.9 | 3425.9 | 3425.9 |
| 2.5°  | 3472.0  | 3342.9 | 3080.9 | 2824.5 | 2616.0 | 2422.3 | 2283.9 | 2152.9 | 2086.5 | 2082.8 | 2079.1 |
| 5°    | 3577.2  | 3306.0 | 2782.0 | 2319.0 | 1946.3 | 1647.5 | 1453.7 | 1315.4 | 1245.3 | 1221.3 | 1217.6 |
| 7.5°  | 3724.7  | 3317.0 | 2520.1 | 1876.2 | 1437.1 | 1180.7 | 1070.0 | 1025.7 | 1011.0 | 994.4  | 990.7  |
| 10°   | 3911.1  | 3342.9 | 2285.8 | 1510.9 | 1132.7 | 1003.6 | 959.3  | 940.9  | 929.8  | 918.7  | 915.0  |
| 12.5° | 4119.5  | 3366.8 | 2053.3 | 1254.5 | 996.2  | 929.8  | 898.4  | 876.3  | 861.5  | 848.6  | 844.9  |
| 15°   | 4322.5  | 3381.6 | 1811.6 | 1075.5 | 926.1  | 872.6  | 839.4  | 815.4  | 795.1  | 780.4  | 778.5  |
| 17.5° | 4523.6  | 3401.9 | 1584.7 | 968.5  | 868.9  | 815.4  | 782.2  | 752.7  | 736.1  | 719.5  | 717.6  |
| 20°   | 4746.8  | 3398.2 | 1370.7 | 892.9  | 811.7  | 758.2  | 723.2  | 695.5  | 678.9  | 660.5  | 658.6  |
| 22.5° | 4953.4  | 3379.8 | 1182.5 | 828.3  | 752.7  | 701.0  | 662.3  | 634.6  | 618.0  | 603.3  | 601.4  |
| 25°   | 5191.4  | 3365.0 | 1025.7 | 769.3  | 697.4  | 645.7  | 603.3  | 577.4  | 559.0  | 546.1  | 544.2  |
| 27.5° | 5420.2  | 3342.9 | 911.4  | 715.8  | 643.9  | 594.0  | 553.5  | 523.9  | 507.3  | 498.1  | 498.1  |
| 30°   | 5645.2  | 3337.3 | 868.9  | 664.1  | 595.9  | 546.1  | 505.5  | 477.8  | 464.9  | 461.2  | 459.4  |
| 32.5° | 5916.4  | 3352.1 | 887.4  | 645.7  | 551.6  | 501.8  | 463.1  | 442.8  | 429.8  | 429.8  | 429.8  |
| 35°   | 6206.1  | 3348.4 | 915.0  | 662.3  | 522.1  | 457.5  | 428.0  | 415.1  | 402.2  | 402.2  | 402.2  |
| 37.5° | 6569.5  | 3353.9 | 937.2  | 690.0  | 511.0  | 420.6  | 404.0  | 387.4  | 380.0  | 380.0  | 380.0  |
| 40°   | 7111.9  | 3536.6 | 926.1  | 714.0  | 507.3  | 394.8  | 361.6  | 356.1  | 350.5  | 350.5  | 350.5  |
| 42.5° | 7776.0  | 3933.2 | 940.9  | 715.8  | 505.5  | 376.3  | 332.1  | 343.1  | 330.2  | 328.4  | 326.5  |
| 45°   | 8502.9  | 4366.8 | 1035.0 | 677.1  | 503.6  | 367.1  | 317.3  | 330.2  | 309.9  | 309.9  | 309.9  |
| 47.5° | 9224.2  | 4796.6 | 1130.9 | 621.7  | 498.1  | 365.3  | 304.4  | 297.0  | 291.5  | 293.3  | 293.3  |
| 50°   | 10218.6 | 5147.1 | 1167.8 | 546.1  | 485.2  | 361.6  | 280.4  | 282.3  | 278.6  | 282.3  | 282.3  |
| 52.5° | 11301.5 | 5220.9 | 1123.5 | 461.2  | 448.3  | 350.5  | 263.8  | 271.2  | 269.3  | 273.0  | 273.0  |
| 55°   | 11976.8 | 5141.6 | 928.0  | 383.7  | 391.1  | 306.2  | 247.2  | 262.0  | 262.0  | 262.0  | 262.0  |
| 57.5° | 12674.1 | 4804.0 | 658.6  | 311.8  | 324.7  | 250.9  | 232.5  | 252.7  | 250.9  | 249.1  | 249.1  |
| 60°   | 13175.9 | 4257.9 | 433.5  | 256.4  | 258.3  | 206.6  | 215.8  | 238.0  | 236.1  | 226.9  | 226.9  |
| 62.5° | 13550.4 | 3654.6 | 278.6  | 217.7  | 197.4  | 186.3  | 197.4  | 215.8  | 208.5  | 188.2  | 184.5  |
| 65°   | 13508.0 | 2818.9 | 214.0  | 186.3  | 162.3  | 162.3  | 171.6  | 188.2  | 166.0  | 132.8  | 129.1  |
| 67.5° | 12720.2 | 1907.6 | 177.1  | 156.8  | 136.5  | 134.7  | 142.1  | 156.8  | 142.1  | 112.5  | 108.8  |
| 70°   | 11312.6 | 1247.1 | 142.1  | 121.8  | 108.8  | 99.6   | 114.4  | 134.7  | 119.9  | 90.4   | 86.7   |
| 72.5° | 9181.8  | 760.1  | 107.0  | 88.6   | 79.3   | 64.6   | 90.4   | 110.7  | 95.9   | 66.4   | 62.7   |
| 75°   | 5940.4  | 387.4  | 73.8   | 57.2   | 42.4   | 38.7   | 66.4   | 83.0   | 66.4   | 40.6   | 35.1   |
| 77.5° | 2272.9  | 162.3  | 40.6   | 25.8   | 22.1   | 18.4   | 36.9   | 49.8   | 27.7   | 9.2    | 7.4    |
| 80°   | 437.2   | 68.3   | 20.3   | 12.9   | 11.1   | 7.4    | 5.5    | 3.7    | 0.0    | 0.0    | 0.0    |
| 82.5° | 75.6    | 22.1   | 7.4    | 3.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 25.8    | 3.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 9.2     | 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)