

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: P941276

Luminaire Tested: **GALN-SB4D-727-U-T3-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P941276  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4D-727-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 29667 lumens  
Efficiency: N/A  
Efficacy: 101.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 293.6  
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

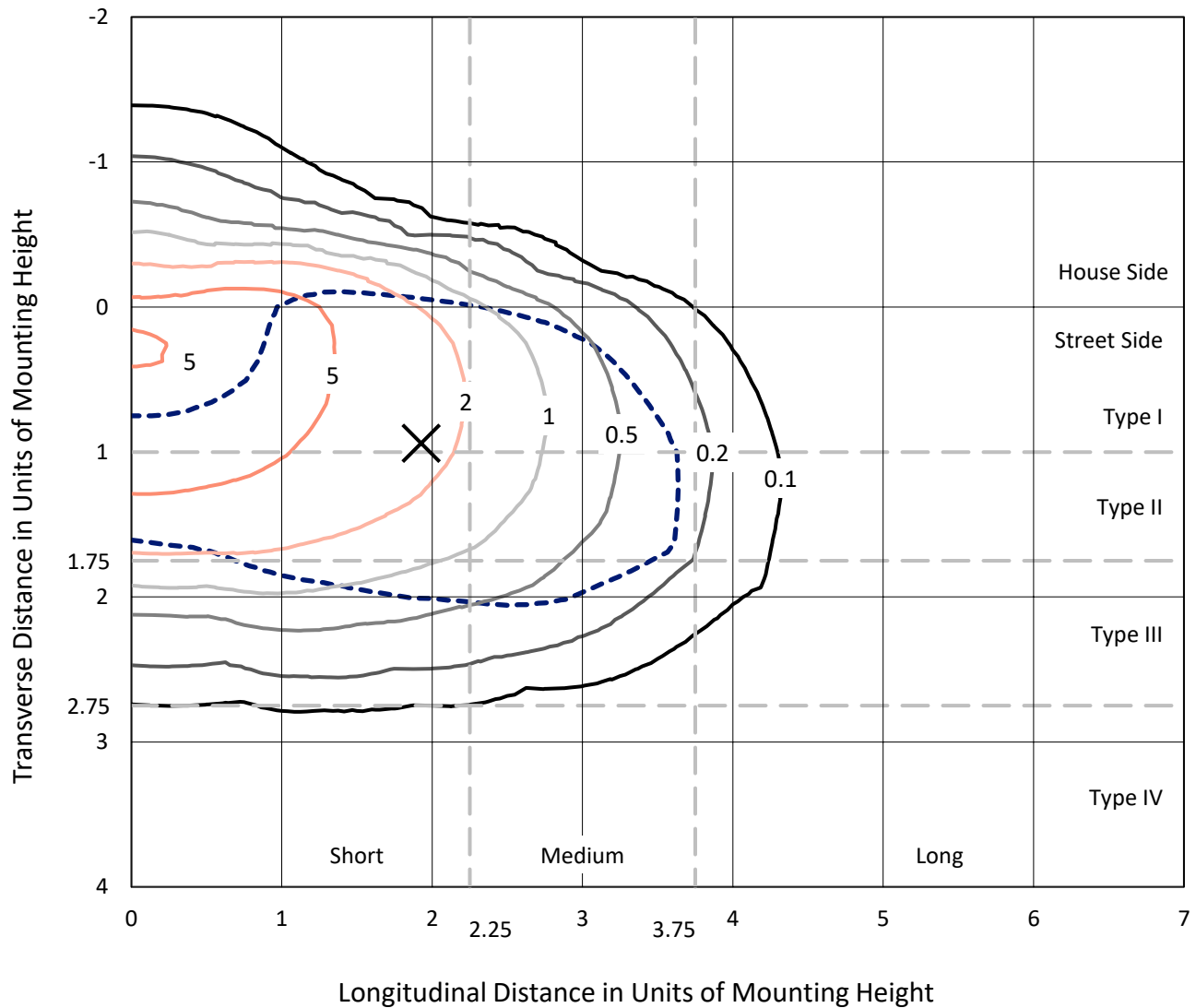


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 --- 1/2 Max cd

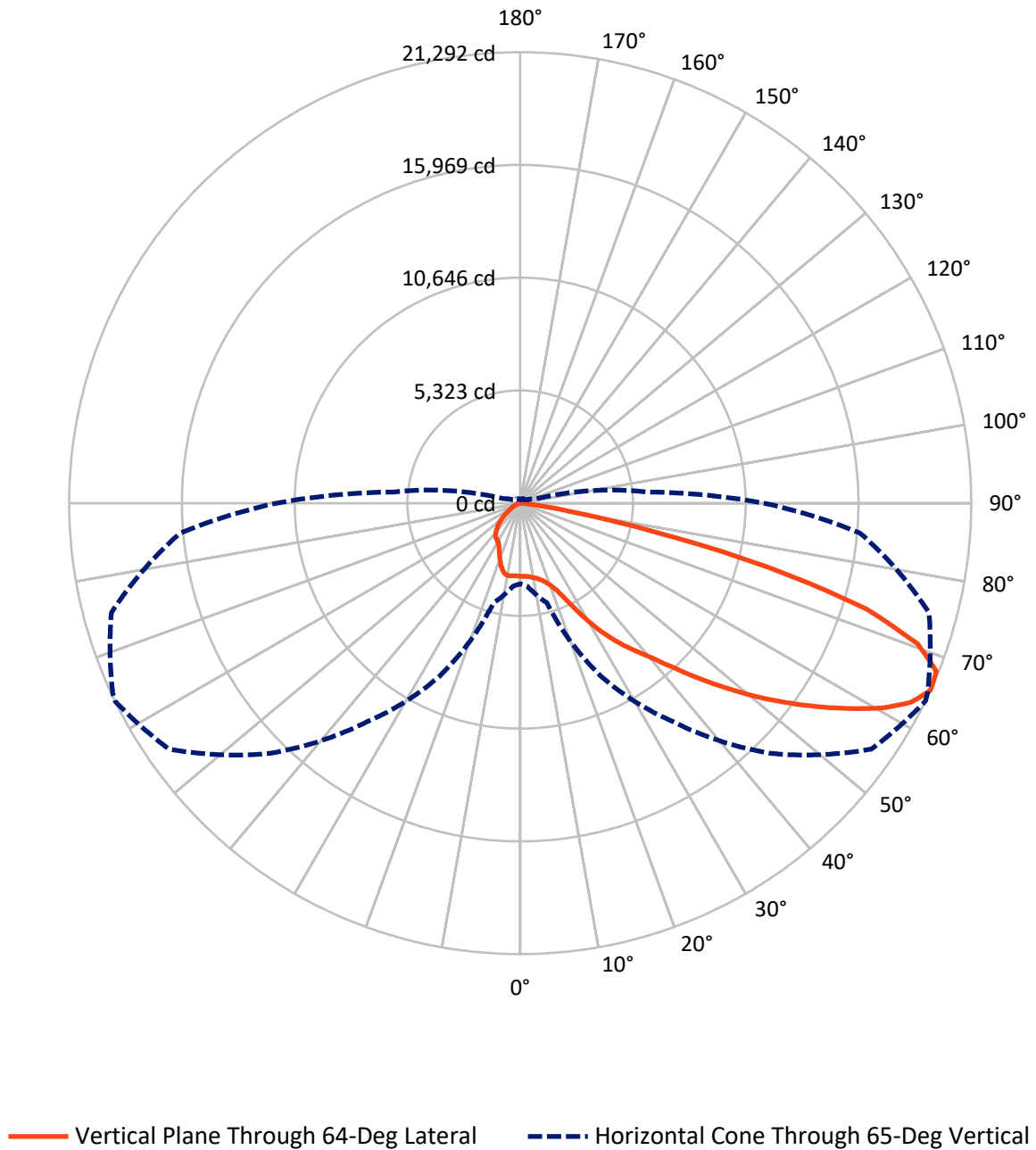


Based on 25 foot mounting height. Maximum calculated value = 8.7 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3967.4   | 0.0    | 3967.4  |
|                    | % Fixture | 13.4     | 0.0    | 13.4    |
| <b>Street Side</b> | Lumens    | 25699.6  | 0.0    | 25699.6 |
|                    | % Fixture | 86.6     | 0.0    | 86.6    |
| <b>Total</b>       | Lumens    | 29667.0  | 0.0    | 29667.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 318.4   | 1.1       |
| 10°-20°   | 863.5   | 2.9       |
| 20°-30°   | 1636.2  | 5.5       |
| 30°-40°   | 3310.9  | 11.2      |
| 40°-50°   | 5640.1  | 19.0      |
| 50°-60°   | 7670.1  | 25.9      |
| 60°-70°   | 7202.6  | 24.3      |
| 70°-80°   | 2885.7  | 9.7       |
| 80°-90°   | 139.8   | 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°    | 29667.0 | 100.0     |
| 0°-180°   | 29667.0 | 100.0     |

**Coefficient of Utilization**



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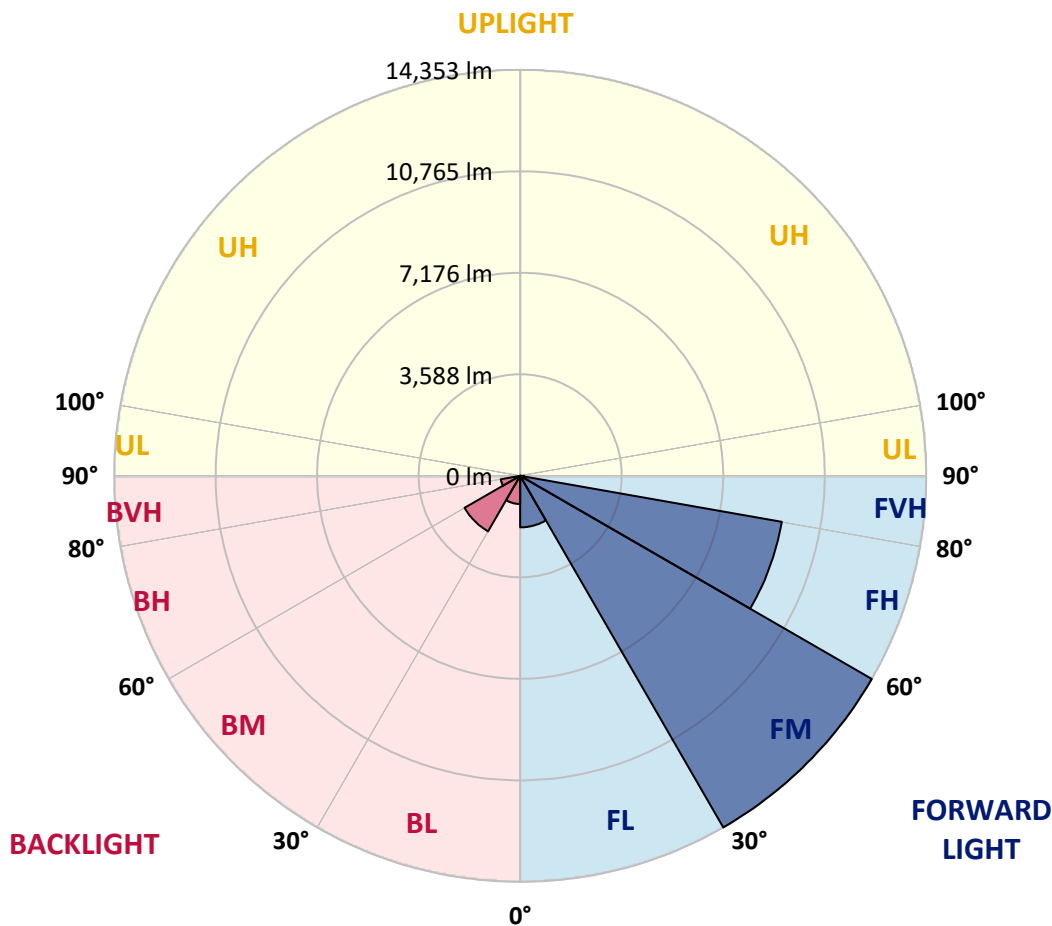
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1821.9  | 6.1       |                         |      |          |
| FM   | (30°-60°)   | 14352.9 | 48.4      |                         |      |          |
| FH   | (60°-80°)   | 9391.9  | 31.7      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 133.0   | 0.4       |                         |      | G2/225   |
| BL   | (0°-30°)    | 996.1   | 3.4       | B2/1000                 |      |          |
| BM   | (30°-60°)   | 2268.1  | 7.6       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 696.3   | 2.3       | B2/1000                 |      | G2/1000  |
| BVH  | (80°-90°)   | 6.8     | 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 III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 64°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3450.6  | 3450.6  | 3450.6  | 3450.6  | 3450.6  | 3450.6  | 3450.6  | 3450.6  | 3450.6  | 3450.6  | 3450.6  |
| 2.5°  | 3438.6  | 3462.5  | 3456.5  | 3450.6  | 3448.6  | 3452.6  | 3454.6  | 3452.6  | 3452.6  | 3452.6  | 3454.6  |
| 5°    | 3373.0  | 3392.9  | 3392.9  | 3406.8  | 3426.7  | 3450.6  | 3468.5  | 3472.5  | 3476.4  | 3482.4  | 3480.4  |
| 7.5°  | 3247.7  | 3263.6  | 3275.6  | 3321.3  | 3371.0  | 3434.7  | 3488.4  | 3516.2  | 3520.2  | 3542.1  | 3550.0  |
| 10°   | 3162.2  | 3182.1  | 3202.0  | 3249.7  | 3321.3  | 3416.8  | 3508.3  | 3575.9  | 3585.8  | 3637.5  | 3661.4  |
| 12.5° | 3158.2  | 3178.1  | 3204.0  | 3255.7  | 3339.2  | 3440.6  | 3552.0  | 3649.5  | 3667.4  | 3742.9  | 3792.7  |
| 15°   | 3200.0  | 3223.9  | 3247.7  | 3311.4  | 3400.9  | 3524.2  | 3643.5  | 3764.8  | 3782.7  | 3890.1  | 3943.8  |
| 17.5° | 3285.5  | 3317.3  | 3335.2  | 3398.9  | 3494.3  | 3631.6  | 3788.7  | 3927.9  | 3943.8  | 4069.1  | 4136.7  |
| 20°   | 3454.6  | 3492.3  | 3498.3  | 3550.0  | 3643.5  | 3790.7  | 3977.6  | 4150.6  | 4170.5  | 4313.7  | 4389.3  |
| 22.5° | 3804.6  | 3858.3  | 3810.6  | 3836.4  | 3919.9  | 4067.1  | 4270.0  | 4488.7  | 4516.6  | 4679.7  | 4747.3  |
| 25°   | 4421.1  | 4496.7  | 4373.4  | 4329.6  | 4365.4  | 4518.6  | 4773.1  | 5049.6  | 5081.4  | 5212.7  | 5246.5  |
| 27.5° | 5632.3  | 5534.8  | 5347.9  | 5164.9  | 5057.5  | 5145.0  | 5431.4  | 5773.5  | 5813.3  | 5940.6  | 5900.8  |
| 30°   | 6962.8  | 6877.3  | 6624.7  | 6219.0  | 5964.4  | 5950.5  | 6215.0  | 6596.9  | 6642.6  | 6763.9  | 6642.6  |
| 32.5° | 8295.3  | 8213.8  | 7939.3  | 7440.1  | 6998.6  | 6779.8  | 6962.8  | 7386.4  | 7410.3  | 7487.9  | 7308.9  |
| 35°   | 9605.9  | 9522.4  | 9248.0  | 8736.8  | 8193.9  | 7696.7  | 7660.9  | 8138.2  | 8146.2  | 8227.7  | 7961.2  |
| 37.5° | 10924.5 | 10854.9 | 10562.6 | 10061.4 | 9526.4  | 8840.2  | 8508.1  | 8850.2  | 8860.1  | 8939.7  | 8663.2  |
| 40°   | 11865.2 | 11895.1 | 11694.2 | 11306.4 | 10847.0 | 10097.2 | 9458.8  | 9607.9  | 9548.3  | 9681.5  | 9516.4  |
| 42.5° | 12672.7 | 12732.3 | 12557.3 | 12362.4 | 12095.9 | 11435.6 | 10636.1 | 10610.3 | 10514.8 | 10586.4 | 10415.4 |
| 45°   | 13370.7 | 13420.5 | 13263.4 | 13217.6 | 13211.6 | 12748.3 | 11922.9 | 11767.8 | 11634.5 | 11620.6 | 11415.8 |
| 47.5° | 13627.3 | 13722.8 | 13790.4 | 13943.5 | 14241.8 | 14046.9 | 13253.4 | 13012.8 | 12863.6 | 12754.2 | 12430.0 |
| 50°   | 13724.8 | 13826.2 | 14056.9 | 14502.4 | 15208.4 | 15291.9 | 14578.0 | 14307.5 | 14124.5 | 13925.6 | 13448.3 |
| 52.5° | 13593.5 | 13774.5 | 14084.7 | 14834.5 | 15858.7 | 16290.3 | 15848.8 | 15612.1 | 15403.3 | 15079.1 | 14371.1 |
| 55°   | 12819.8 | 13000.8 | 13635.3 | 14830.5 | 16182.9 | 16990.4 | 17050.0 | 16944.6 | 16710.0 | 16198.8 | 15116.9 |
| 57.5° | 11189.0 | 11457.5 | 12461.9 | 14325.4 | 16177.0 | 17593.0 | 18227.4 | 18303.0 | 18040.5 | 17308.6 | 15703.6 |
| 60°   | 8929.7  | 9293.7  | 10518.8 | 13205.7 | 15677.8 | 17919.2 | 19259.6 | 19637.5 | 19359.0 | 18402.4 | 16178.9 |
| 62.5° | 6230.9  | 6652.6  | 7812.0  | 11451.6 | 14536.2 | 17684.5 | 20013.4 | 20711.4 | 20500.6 | 19380.9 | 16361.9 |
| 65°   | 3800.6  | 3935.8  | 4870.6  | 9011.3  | 12595.1 | 16702.0 | 20246.1 | 21292.2 | 21222.6 | 19979.6 | 16091.4 |
| 67.5° | 2531.8  | 2645.1  | 2913.6  | 6179.2  | 9777.0  | 14739.0 | 19689.2 | 21190.7 | 21210.6 | 19882.1 | 15101.0 |
| 70°   | 1525.4  | 1622.9  | 1797.9  | 3593.8  | 6336.3  | 11666.3 | 17964.9 | 19898.0 | 20013.4 | 18579.4 | 13223.6 |
| 72.5° | 628.5   | 694.1   | 853.2   | 1628.8  | 3281.5  | 7404.3  | 14305.5 | 17083.9 | 17352.3 | 15622.1 | 10148.9 |
| 75°   | 356.0   | 389.8   | 501.2   | 817.4   | 1424.0  | 3450.6  | 8665.2  | 12127.7 | 12523.5 | 10767.4 | 6105.6  |
| 77.5° | 236.7   | 252.6   | 324.2   | 529.0   | 801.5   | 1177.4  | 3703.2  | 6318.4  | 7074.2  | 5880.9  | 2643.1  |
| 80°   | 159.1   | 173.0   | 222.7   | 354.0   | 521.1   | 505.2   | 1179.4  | 2340.8  | 2879.8  | 2020.6  | 644.4   |
| 82.5° | 107.4   | 109.4   | 159.1   | 232.7   | 330.1   | 244.6   | 348.0   | 727.9   | 914.9   | 584.7   | 244.6   |
| 85°   | 61.7    | 59.7    | 117.3   | 135.2   | 147.2   | 101.4   | 105.4   | 218.8   | 286.4   | 246.6   | 139.2   |
| 87.5° | 8.0     | 11.9    | 45.7    | 35.8    | 19.9    | 21.9    | 21.9    | 37.8    | 55.7    | 59.7    | 29.8    |
| 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°    | 3450.6  | 3450.6  | 3450.6 | 3450.6 | 3450.6 | 3450.6 | 3450.6 | 3450.6 | 3450.6 | 3450.6 | 3450.6 |
| 2.5°  | 3454.6  | 3452.6  | 3446.6 | 3440.6 | 3426.7 | 3418.8 | 3422.7 | 3418.8 | 3416.8 | 3418.8 | 3426.7 |
| 5°    | 3480.4  | 3474.4  | 3458.5 | 3438.6 | 3410.8 | 3377.0 | 3355.1 | 3323.3 | 3293.5 | 3275.6 | 3279.5 |
| 7.5°  | 3550.0  | 3544.1  | 3522.2 | 3466.5 | 3377.0 | 3235.8 | 3106.5 | 2993.2 | 2907.6 | 2857.9 | 2859.9 |
| 10°   | 3661.4  | 3651.4  | 3617.6 | 3494.3 | 3259.7 | 2951.4 | 2694.8 | 2482.0 | 2342.8 | 2277.2 | 2271.2 |
| 12.5° | 3792.7  | 3780.7  | 3721.1 | 3468.5 | 3036.9 | 2555.6 | 2201.6 | 1964.9 | 1835.7 | 1778.0 | 1772.0 |
| 15°   | 3947.8  | 3931.9  | 3814.5 | 3345.2 | 2712.7 | 2118.1 | 1793.9 | 1616.9 | 1533.4 | 1481.7 | 1483.7 |
| 17.5° | 4140.7  | 4112.9  | 3884.1 | 3160.2 | 2360.7 | 1784.0 | 1543.3 | 1410.1 | 1336.5 | 1286.8 | 1282.8 |
| 20°   | 4391.3  | 4345.5  | 3939.8 | 2939.5 | 2036.5 | 1573.1 | 1374.3 | 1262.9 | 1207.2 | 1163.5 | 1155.5 |
| 22.5° | 4741.3  | 4675.7  | 4007.4 | 2700.8 | 1807.8 | 1428.0 | 1249.0 | 1167.4 | 1121.7 | 1072.0 | 1064.0 |
| 25°   | 5174.9  | 5097.3  | 4091.0 | 2480.0 | 1650.7 | 1302.7 | 1157.5 | 1089.9 | 1036.2 | 978.5  | 972.5  |
| 27.5° | 5781.5  | 5642.2  | 4190.4 | 2299.1 | 1515.5 | 1195.3 | 1074.0 | 998.4  | 936.7  | 889.0  | 879.1  |
| 30°   | 6457.7  | 6228.9  | 4277.9 | 2189.7 | 1392.2 | 1095.8 | 964.6  | 889.0  | 831.3  | 797.5  | 791.5  |
| 32.5° | 7098.1  | 6787.8  | 4335.6 | 2141.9 | 1280.8 | 982.5  | 845.2  | 763.7  | 719.9  | 710.0  | 716.0  |
| 35°   | 7702.6  | 7293.0  | 4329.6 | 2096.2 | 1181.4 | 869.1  | 727.9  | 644.4  | 610.6  | 616.5  | 616.5  |
| 37.5° | 8398.7  | 7831.9  | 4287.9 | 2024.6 | 1099.8 | 765.7  | 626.5  | 552.9  | 523.1  | 525.0  | 533.0  |
| 40°   | 9208.2  | 8454.4  | 4262.0 | 1889.4 | 1010.3 | 670.2  | 542.9  | 483.3  | 461.4  | 453.4  | 451.5  |
| 42.5° | 10071.3 | 9057.0  | 4266.0 | 1736.2 | 898.9  | 584.7  | 485.3  | 435.5  | 415.7  | 409.7  | 407.7  |
| 45°   | 10938.4 | 9631.8  | 4272.0 | 1577.1 | 781.6  | 519.1  | 443.5  | 401.7  | 389.8  | 381.9  | 381.9  |
| 47.5° | 11753.8 | 10121.0 | 4160.6 | 1406.1 | 666.3  | 469.4  | 409.7  | 381.9  | 371.9  | 362.0  | 362.0  |
| 50°   | 12513.6 | 10447.2 | 3892.1 | 1207.2 | 574.8  | 429.6  | 383.8  | 364.0  | 354.0  | 344.1  | 344.1  |
| 52.5° | 13104.2 | 10498.9 | 3448.6 | 1002.4 | 511.1  | 399.8  | 367.9  | 350.0  | 338.1  | 328.2  | 326.2  |
| 55°   | 13366.8 | 10174.7 | 2818.1 | 811.4  | 461.4  | 373.9  | 352.0  | 334.1  | 320.2  | 310.3  | 308.3  |
| 57.5° | 13299.2 | 9492.6  | 2197.6 | 652.3  | 413.7  | 348.0  | 332.1  | 320.2  | 304.3  | 288.4  | 286.4  |
| 60°   | 12967.0 | 8579.7  | 1656.7 | 542.9  | 369.9  | 320.2  | 310.3  | 300.3  | 278.4  | 254.6  | 250.6  |
| 62.5° | 12392.3 | 7432.2  | 1181.4 | 449.5  | 322.2  | 288.4  | 284.4  | 276.4  | 244.6  | 200.9  | 196.9  |
| 65°   | 11513.2 | 6038.0  | 795.5  | 373.9  | 276.4  | 252.6  | 254.6  | 240.6  | 198.9  | 149.2  | 145.2  |
| 67.5° | 10228.4 | 4415.2  | 509.1  | 306.3  | 230.7  | 210.8  | 212.8  | 204.8  | 169.0  | 127.3  | 121.3  |
| 70°   | 8591.6  | 2923.5  | 332.1  | 232.7  | 185.0  | 163.1  | 175.0  | 177.0  | 143.2  | 103.4  | 99.4   |
| 72.5° | 6298.6  | 1726.3  | 232.7  | 173.0  | 135.2  | 113.4  | 143.2  | 147.2  | 115.4  | 77.6   | 73.6   |
| 75°   | 3589.8  | 819.4   | 175.0  | 125.3  | 83.5   | 79.6   | 111.4  | 111.4  | 79.6   | 51.7   | 47.7   |
| 77.5° | 1507.5  | 342.1   | 123.3  | 81.5   | 47.7   | 45.7   | 75.6   | 69.6   | 39.8   | 23.9   | 23.9   |
| 80°   | 435.5   | 153.1   | 65.6   | 39.8   | 19.9   | 17.9   | 29.8   | 21.9   | 9.9    | 4.0    | 4.0    |
| 82.5° | 171.0   | 67.6    | 25.9   | 15.9   | 8.0    | 8.0    | 4.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 101.4   | 27.8    | 11.9   | 6.0    | 2.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 25.9    | 6.0     | 4.0    | 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)