

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: P948793

Luminaire Tested: **GALN-SB3D-727-U-T2U-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P948793  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB3D-727-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 21643 lumens  
Efficiency: N/A  
Efficacy: 99.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 218.1  
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

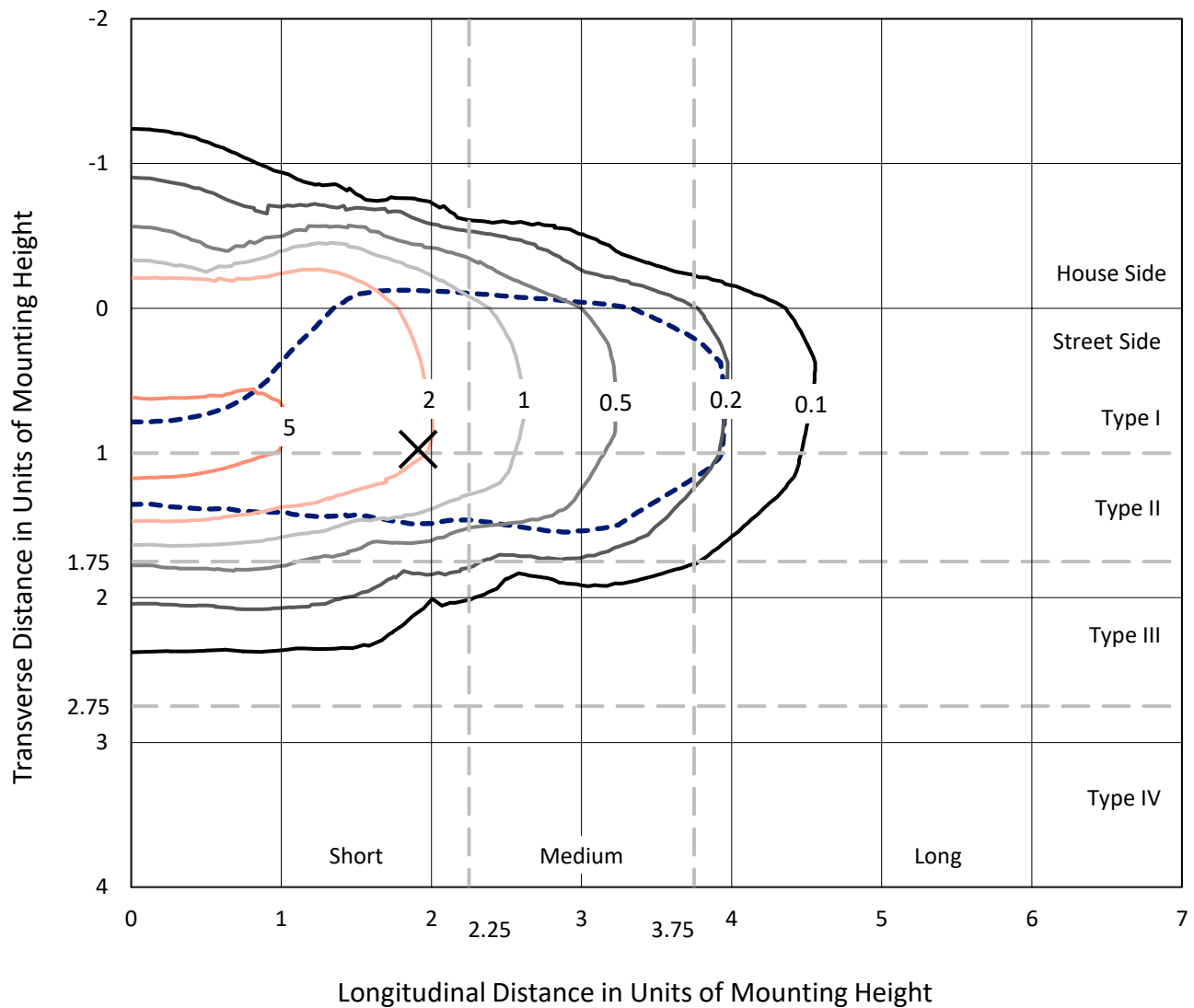


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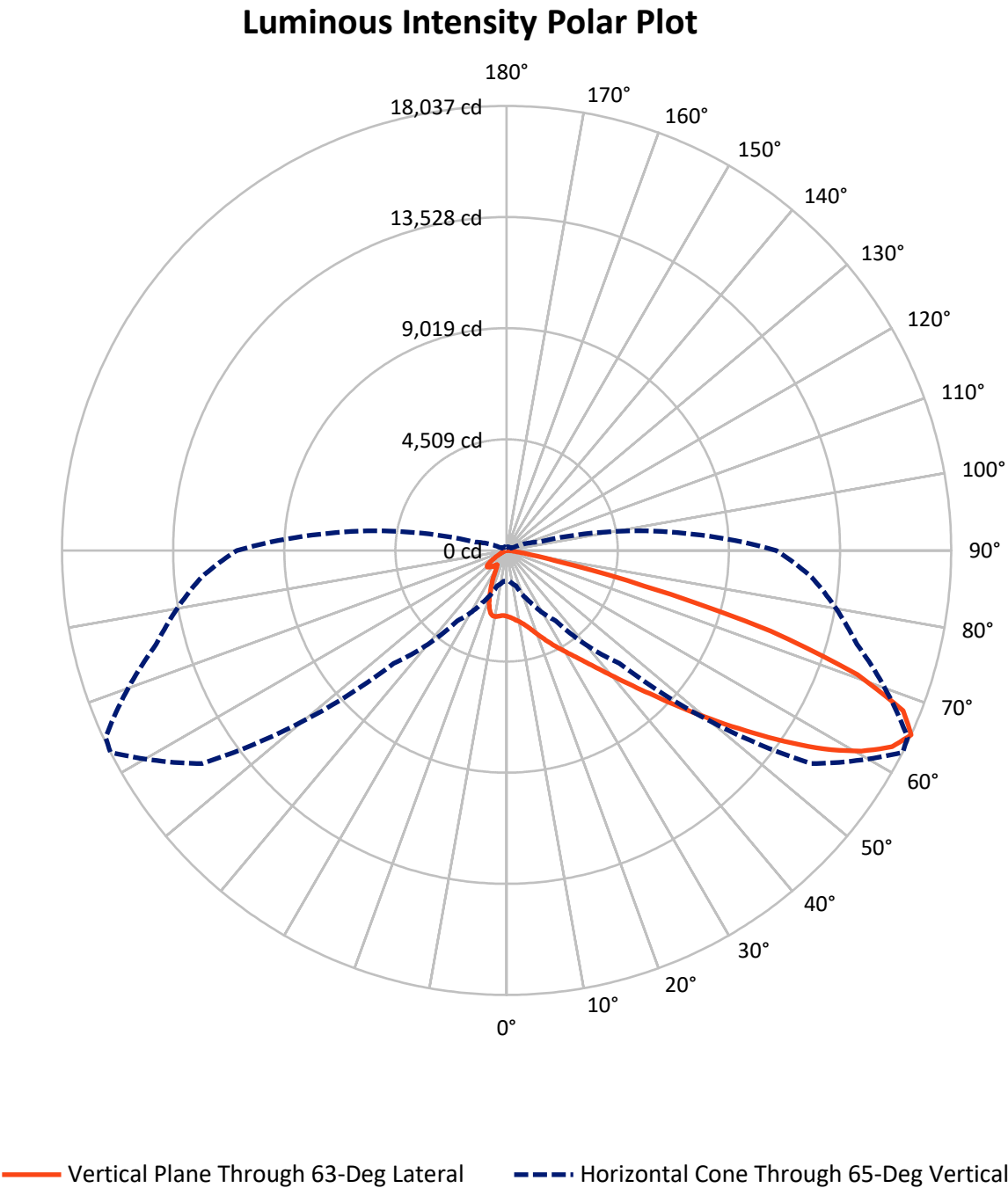
## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc  
Type II - Short - N/A

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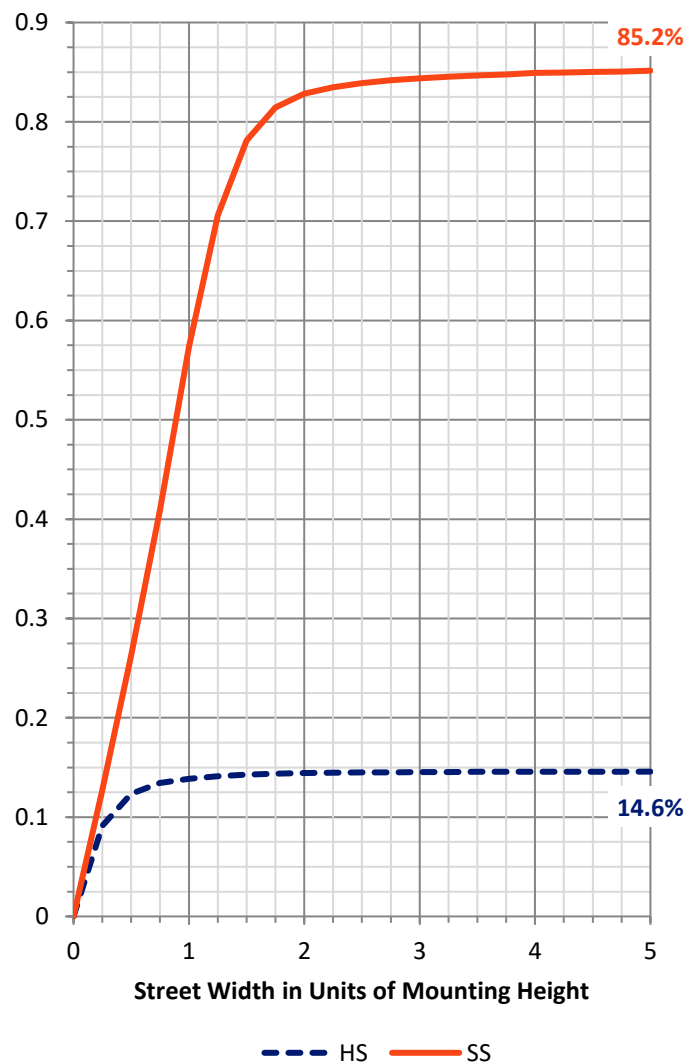
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3181.4   | 0.0    | 3181.4  |
|                    | % Fixture | 14.7     | 0.0    | 14.7    |
| <b>Street Side</b> | Lumens    | 18461.6  | 0.0    | 18461.6 |
|                    | % Fixture | 85.3     | 0.0    | 85.3    |
| <b>Total</b>       | Lumens    | 21643.0  | 0.0    | 21643.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 251.7   | 1.2       |
| 10°-20°   | 698.3   | 3.2       |
| 20°-30°   | 1215.9  | 5.6       |
| 30°-40°   | 2191.6  | 10.1      |
| 40°-50°   | 4346.6  | 20.1      |
| 50°-60°   | 5920.8  | 27.4      |
| 60°-70°   | 4725.9  | 21.8      |
| 70°-80°   | 2138.6  | 9.9       |
| 80°-90°   | 153.7   | 0.7       |
| 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°    | 21643.0 | 100.0     |
| 0°-180°   | 21643.0 | 100.0     |

**Coefficient of Utilization**



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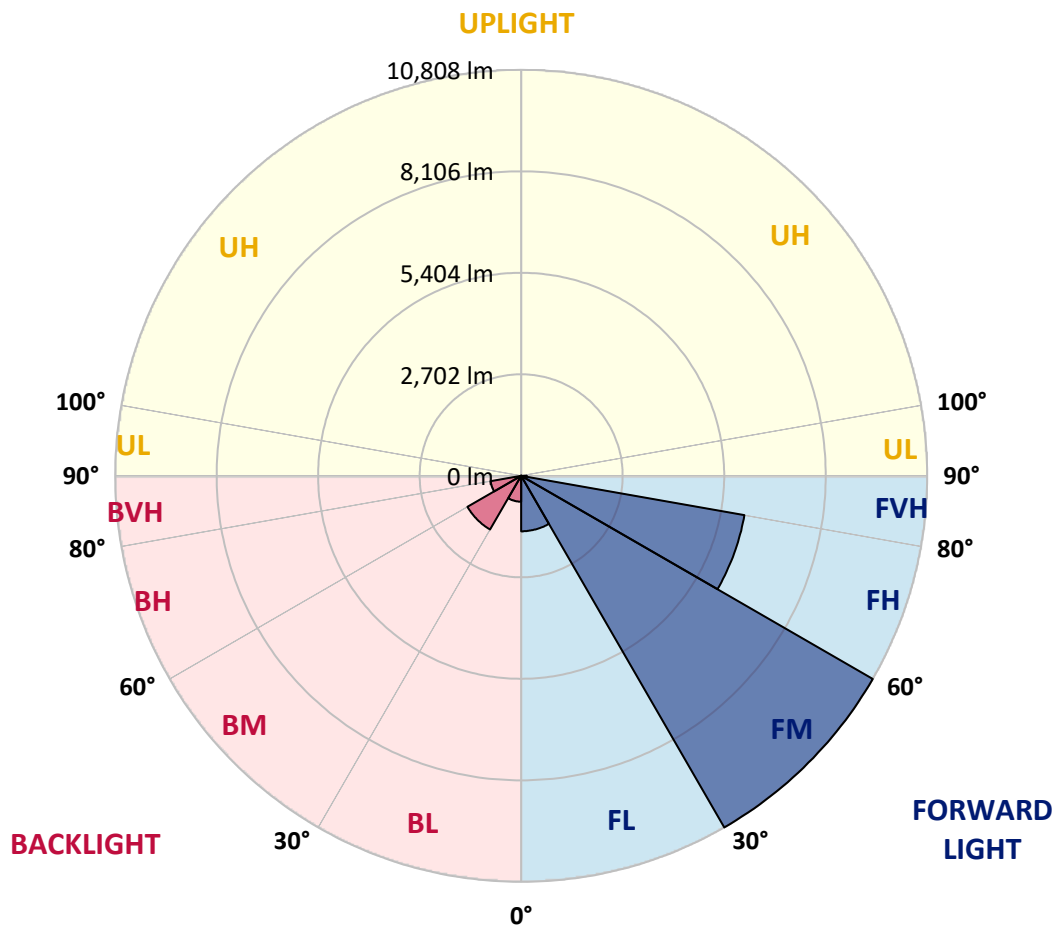
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1477.4  | 6.8       |                         |      |         |
| FM   | (30°-60°)   | 10808.0 | 49.9      |                         |      |         |
| FH   | (60°-80°)   | 6034.0  | 27.9      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 142.3   | 0.7       |                         |      | G2/225  |
| BL   | (0°-30°)    | 688.5   | 3.2       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1650.9  | 7.6       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 830.5   | 3.8       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 11.4    | 0.1       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 63°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2671.2  | 2671.2  | 2671.2  | 2671.2  | 2671.2  | 2671.2  | 2671.2  | 2671.2  | 2671.2  | 2671.2  | 2671.2  |
| 2.5°  | 2733.7  | 2726.2  | 2736.7  | 2732.2  | 2729.2  | 2723.3  | 2720.3  | 2717.3  | 2711.4  | 2706.9  | 2689.0  |
| 5°    | 2741.1  | 2736.7  | 2747.1  | 2756.0  | 2765.0  | 2773.9  | 2778.4  | 2784.3  | 2778.4  | 2766.4  | 2748.6  |
| 7.5°  | 2678.6  | 2675.6  | 2698.0  | 2724.8  | 2765.0  | 2799.2  | 2836.4  | 2857.3  | 2858.8  | 2854.3  | 2834.9  |
| 10°   | 2674.1  | 2666.7  | 2689.0  | 2721.8  | 2773.9  | 2834.9  | 2900.5  | 2945.1  | 2951.1  | 2970.4  | 2949.6  |
| 12.5° | 2744.1  | 2736.7  | 2767.9  | 2803.7  | 2857.3  | 2921.3  | 3001.7  | 3064.2  | 3073.2  | 3100.0  | 3085.1  |
| 15°   | 2861.7  | 2851.3  | 2887.1  | 2933.2  | 3001.7  | 3074.7  | 3159.5  | 3216.1  | 3223.6  | 3256.3  | 3229.5  |
| 17.5° | 2998.7  | 2988.3  | 3030.0  | 3079.1  | 3153.6  | 3253.3  | 3351.6  | 3414.1  | 3423.1  | 3443.9  | 3394.8  |
| 20°   | 3174.4  | 3161.0  | 3193.8  | 3238.4  | 3317.4  | 3436.5  | 3554.1  | 3643.4  | 3641.9  | 3641.9  | 3561.5  |
| 22.5° | 3378.4  | 3357.6  | 3385.8  | 3421.6  | 3496.0  | 3640.5  | 3796.8  | 3902.5  | 3902.5  | 3860.8  | 3728.3  |
| 25°   | 3597.3  | 3576.4  | 3607.7  | 3640.5  | 3706.0  | 3869.8  | 4052.9  | 4183.9  | 4189.9  | 4118.4  | 3907.0  |
| 27.5° | 3871.2  | 3844.4  | 3868.3  | 3907.0  | 3945.7  | 4112.4  | 4329.8  | 4481.7  | 4484.7  | 4374.5  | 4076.7  |
| 30°   | 4398.3  | 4322.4  | 4247.9  | 4206.3  | 4224.1  | 4389.4  | 4621.7  | 4789.9  | 4804.8  | 4652.9  | 4261.3  |
| 32.5° | 5363.2  | 5348.3  | 5086.2  | 4743.8  | 4565.1  | 4687.2  | 4947.7  | 5150.2  | 5159.2  | 4964.1  | 4501.1  |
| 35°   | 6862.5  | 6844.6  | 6423.3  | 5771.1  | 5188.9  | 5086.2  | 5343.8  | 5583.5  | 5577.6  | 5357.2  | 4812.2  |
| 37.5° | 8652.2  | 8635.8  | 8080.5  | 7207.9  | 6265.5  | 5689.2  | 5854.5  | 6106.1  | 6143.4  | 5854.5  | 5214.3  |
| 40°   | 10181.4 | 10120.3 | 9768.9  | 8927.7  | 7694.8  | 6689.8  | 6581.1  | 6747.9  | 6786.6  | 6444.1  | 5725.0  |
| 42.5° | 11339.8 | 11287.6 | 11109.0 | 10583.4 | 9425.0  | 8169.8  | 7437.2  | 7501.3  | 7544.4  | 7133.5  | 6311.6  |
| 45°   | 11939.8 | 11927.9 | 11999.4 | 11950.2 | 11187.9 | 9986.3  | 8661.2  | 8394.6  | 8411.0  | 7897.3  | 6977.2  |
| 47.5° | 12024.7 | 12018.7 | 12344.8 | 12806.4 | 12703.6 | 12035.1 | 10232.0 | 9508.4  | 9450.3  | 8759.4  | 7700.8  |
| 50°   | 11524.4 | 11512.5 | 12137.8 | 13002.9 | 13716.1 | 13756.3 | 12015.7 | 10763.5 | 10635.5 | 9651.3  | 8455.7  |
| 52.5° | 9926.8  | 9923.8  | 10951.1 | 12390.9 | 14072.0 | 15263.1 | 13778.6 | 12142.3 | 11927.9 | 10595.3 | 9253.8  |
| 55°   | 7638.3  | 7693.3  | 8871.1  | 10573.0 | 13422.8 | 15988.2 | 15361.4 | 13672.9 | 13343.9 | 11545.2 | 9989.3  |
| 57.5° | 5410.8  | 5491.2  | 6655.6  | 8171.3  | 11409.7 | 15559.4 | 16431.9 | 15206.5 | 14852.2 | 12492.2 | 10735.2 |
| 60°   | 2906.4  | 2977.9  | 4143.7  | 5952.8  | 8488.4  | 13960.3 | 16996.2 | 16537.6 | 16202.6 | 13391.5 | 11408.2 |
| 62.5° | 1731.6  | 1755.5  | 2237.9  | 3842.9  | 5741.3  | 10665.3 | 16756.5 | 17551.6 | 17276.1 | 14146.4 | 11993.4 |
| 65°   | 1243.3  | 1247.7  | 1490.4  | 2346.6  | 3485.6  | 6479.9  | 15075.5 | 18037.0 | 17952.1 | 14715.2 | 12426.7 |
| 67.5° | 1046.7  | 1043.7  | 1145.0  | 1558.9  | 2374.9  | 3245.9  | 11554.2 | 17350.6 | 17710.9 | 15075.5 | 12672.4 |
| 70°   | 897.8   | 902.3   | 1021.4  | 1142.0  | 1785.2  | 1837.3  | 5744.3  | 15106.8 | 15875.1 | 15170.8 | 12657.5 |
| 72.5° | 668.5   | 683.4   | 793.6   | 1040.8  | 1347.5  | 1264.1  | 1983.3  | 11201.3 | 12590.5 | 14293.8 | 12000.8 |
| 75°   | 472.0   | 479.4   | 558.4   | 875.5   | 1005.0  | 920.2   | 1012.5  | 5790.5  | 7571.3  | 10958.6 | 9822.5  |
| 77.5° | 363.3   | 376.7   | 422.9   | 612.0   | 990.1   | 646.2   | 619.4   | 2004.1  | 3079.1  | 6619.8  | 6734.5  |
| 80°   | 196.5   | 220.4   | 305.2   | 442.2   | 695.3   | 457.1   | 306.7   | 798.1   | 1043.7  | 3095.5  | 2596.7  |
| 82.5° | 101.2   | 113.2   | 212.9   | 318.6   | 396.1   | 399.0   | 151.9   | 332.0   | 430.3   | 955.9   | 355.9   |
| 85°   | 40.2    | 49.1    | 142.9   | 175.7   | 204.0   | 196.5   | 68.5    | 134.0   | 154.8   | 265.0   | 108.7   |
| 87.5° | 8.9     | 14.9    | 52.1    | 40.2    | 38.7    | 41.7    | 16.4    | 31.3    | 29.8    | 31.3    | 19.4    |
| 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°    | 2671.2  | 2671.2 | 2671.2 | 2671.2 | 2671.2 | 2671.2 | 2671.2 | 2671.2 | 2671.2 | 2671.2 | 2671.2 |
| 2.5°  | 2687.5  | 2681.6 | 2665.2 | 2647.3 | 2626.5 | 2614.6 | 2607.1 | 2605.6 | 2595.2 | 2587.8 | 2595.2 |
| 5°    | 2732.2  | 2726.2 | 2695.0 | 2657.8 | 2617.6 | 2586.3 | 2556.5 | 2529.7 | 2491.0 | 2483.5 | 2480.6 |
| 7.5°  | 2821.5  | 2805.2 | 2754.5 | 2703.9 | 2628.0 | 2537.2 | 2427.0 | 2300.4 | 2187.3 | 2153.0 | 2136.6 |
| 10°   | 2931.7  | 2909.4 | 2845.4 | 2756.0 | 2587.8 | 2340.6 | 2074.1 | 1826.9 | 1630.4 | 1575.3 | 1554.5 |
| 12.5° | 3056.8  | 3037.4 | 2952.6 | 2787.3 | 2419.5 | 1971.4 | 1563.4 | 1256.7 | 1066.1 | 1018.4 | 1005.0 |
| 15°   | 3205.7  | 3177.4 | 3059.8 | 2739.6 | 2118.8 | 1497.9 | 1073.5 | 891.9  | 823.4  | 814.4  | 805.5  |
| 17.5° | 3363.5  | 3317.4 | 3155.1 | 2568.4 | 1713.8 | 1064.6 | 829.3  | 777.2  | 747.4  | 738.5  | 734.0  |
| 20°   | 3507.9  | 3448.4 | 3211.6 | 2309.3 | 1280.5 | 829.3  | 743.0  | 708.7  | 681.9  | 671.5  | 665.6  |
| 22.5° | 3652.4  | 3567.5 | 3211.6 | 1956.5 | 960.4  | 735.5  | 681.9  | 650.7  | 619.4  | 606.0  | 598.6  |
| 25°   | 3802.7  | 3689.6 | 3155.1 | 1563.4 | 772.8  | 674.5  | 623.9  | 589.6  | 562.8  | 546.4  | 540.5  |
| 27.5° | 3948.7  | 3792.3 | 3025.5 | 1191.2 | 687.9  | 620.9  | 570.3  | 537.5  | 512.2  | 500.3  | 500.3  |
| 30°   | 4087.1  | 3893.6 | 2843.9 | 903.8  | 632.8  | 568.8  | 521.1  | 492.8  | 467.5  | 455.6  | 457.1  |
| 32.5° | 4274.7  | 4021.6 | 2650.3 | 741.5  | 585.2  | 519.6  | 476.5  | 449.7  | 427.3  | 418.4  | 418.4  |
| 35°   | 4535.3  | 4210.7 | 2483.5 | 728.1  | 545.0  | 479.4  | 436.3  | 410.9  | 388.6  | 381.2  | 381.2  |
| 37.5° | 4904.6  | 4515.9 | 2395.7 | 817.4  | 512.2  | 443.7  | 403.5  | 376.7  | 355.9  | 349.9  | 348.4  |
| 40°   | 5360.2  | 4929.9 | 2443.3 | 906.8  | 489.9  | 412.4  | 373.7  | 346.9  | 329.1  | 321.6  | 320.1  |
| 42.5° | 5900.7  | 5440.6 | 2706.9 | 975.3  | 475.0  | 385.6  | 345.4  | 315.7  | 303.7  | 300.8  | 300.8  |
| 45°   | 6521.5  | 6001.9 | 3110.4 | 1048.2 | 451.1  | 360.3  | 317.1  | 294.8  | 285.9  | 284.4  | 282.9  |
| 47.5° | 7227.3  | 6618.3 | 3577.9 | 1139.0 | 427.3  | 336.5  | 294.8  | 279.9  | 272.5  | 269.5  | 269.5  |
| 50°   | 7927.1  | 7239.2 | 4058.8 | 1189.7 | 408.0  | 314.2  | 276.9  | 265.0  | 259.1  | 257.6  | 257.6  |
| 52.5° | 8659.7  | 7878.0 | 4447.5 | 1142.0 | 391.6  | 296.3  | 262.1  | 253.1  | 247.2  | 245.7  | 245.7  |
| 55°   | 9358.0  | 8394.6 | 4514.5 | 969.3  | 358.8  | 278.4  | 245.7  | 241.2  | 233.8  | 233.8  | 232.3  |
| 57.5° | 9959.5  | 8653.7 | 4041.0 | 711.7  | 326.1  | 251.6  | 229.3  | 224.8  | 218.9  | 217.4  | 215.9  |
| 60°   | 10511.9 | 8579.3 | 3119.3 | 479.4  | 290.3  | 224.8  | 208.5  | 205.5  | 199.5  | 192.1  | 190.6  |
| 62.5° | 10823.1 | 8251.7 | 2133.6 | 312.7  | 254.6  | 196.5  | 184.6  | 183.1  | 169.7  | 154.8  | 151.9  |
| 65°   | 10940.7 | 7578.7 | 1331.1 | 227.8  | 212.9  | 168.3  | 159.3  | 156.3  | 137.0  | 120.6  | 119.1  |
| 67.5° | 10838.0 | 6470.9 | 671.5  | 180.2  | 168.3  | 140.0  | 131.0  | 131.0  | 117.6  | 102.7  | 101.2  |
| 70°   | 10427.0 | 4851.0 | 282.9  | 144.4  | 129.5  | 107.2  | 107.2  | 113.2  | 99.8   | 83.4   | 81.9   |
| 72.5° | 9535.2  | 3263.8 | 150.4  | 110.2  | 96.8   | 75.9   | 87.8   | 92.3   | 78.9   | 62.5   | 62.5   |
| 75°   | 7580.2  | 1990.7 | 104.2  | 81.9   | 61.0   | 53.6   | 67.0   | 70.0   | 53.6   | 41.7   | 40.2   |
| 77.5° | 5184.5  | 1143.5 | 70.0   | 52.1   | 38.7   | 31.3   | 46.2   | 43.2   | 28.3   | 19.4   | 20.8   |
| 80°   | 2276.6  | 476.5  | 40.2   | 23.8   | 14.9   | 11.9   | 16.4   | 11.9   | 8.9    | 6.0    | 6.0    |
| 82.5° | 266.5   | 111.7  | 14.9   | 8.9    | 6.0    | 3.0    | 1.5    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 55.1    | 13.4   | 7.4    | 3.0    | 1.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 10.4    | 3.0    | 1.5    | 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)