

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: P941619

Luminaire Tested: **GALN-SB5B-727-U-T4FT**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P941619  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5B-727-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 26077 lumens  
Efficiency: N/A  
Efficacy: 142.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 182.7  
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



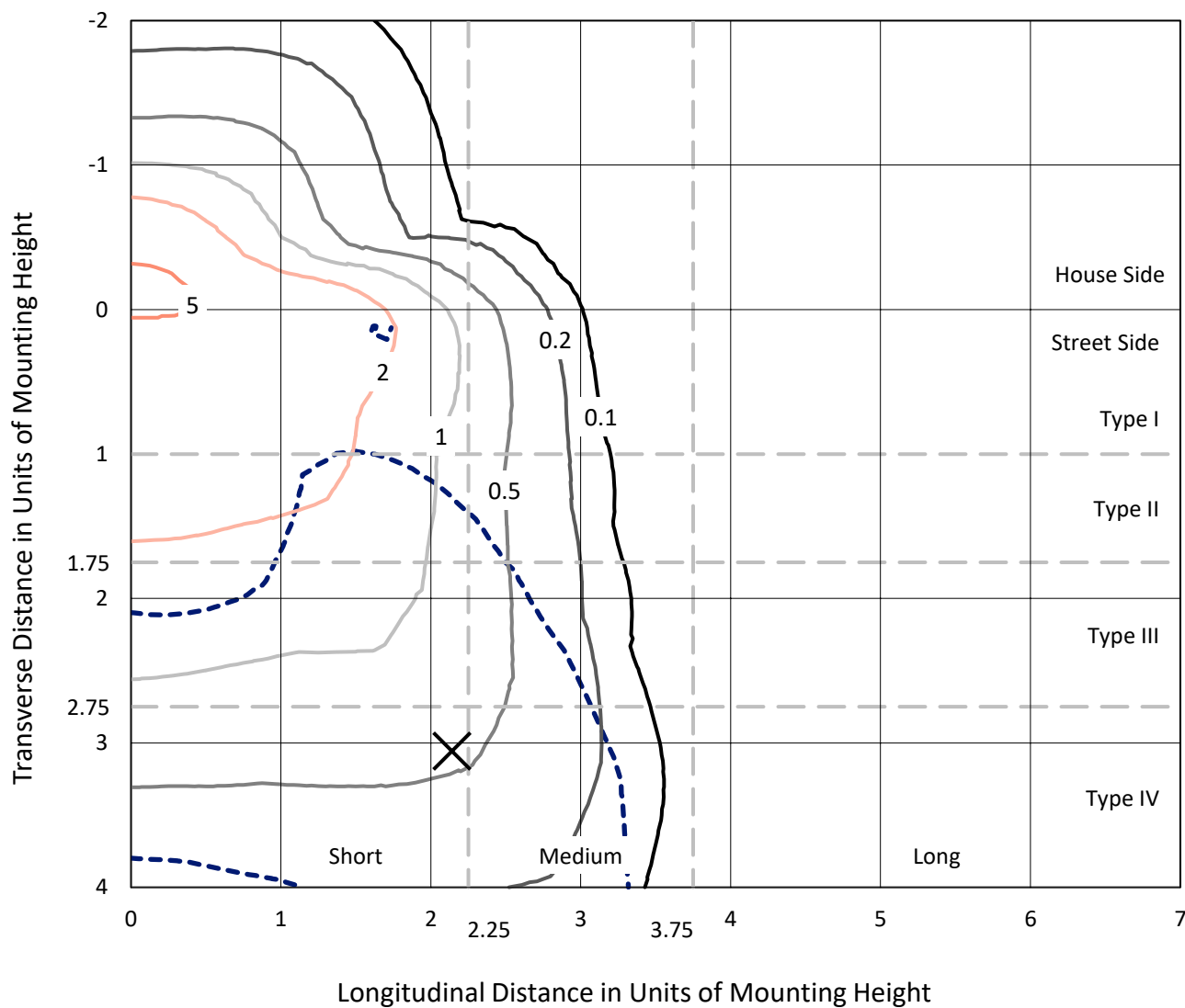
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



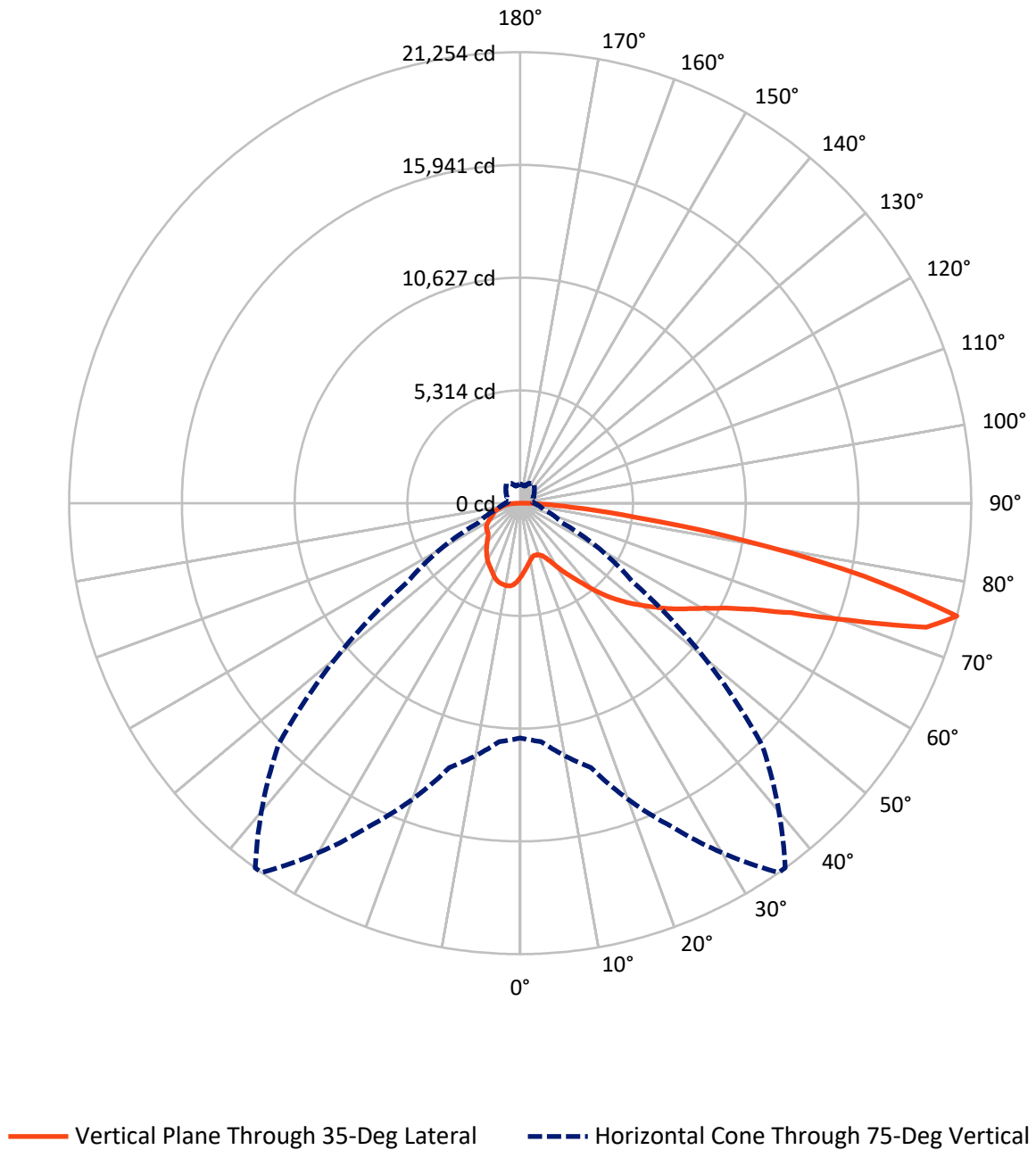
Based on 25 foot mounting height. Maximum calculated value = 6.1 fc

Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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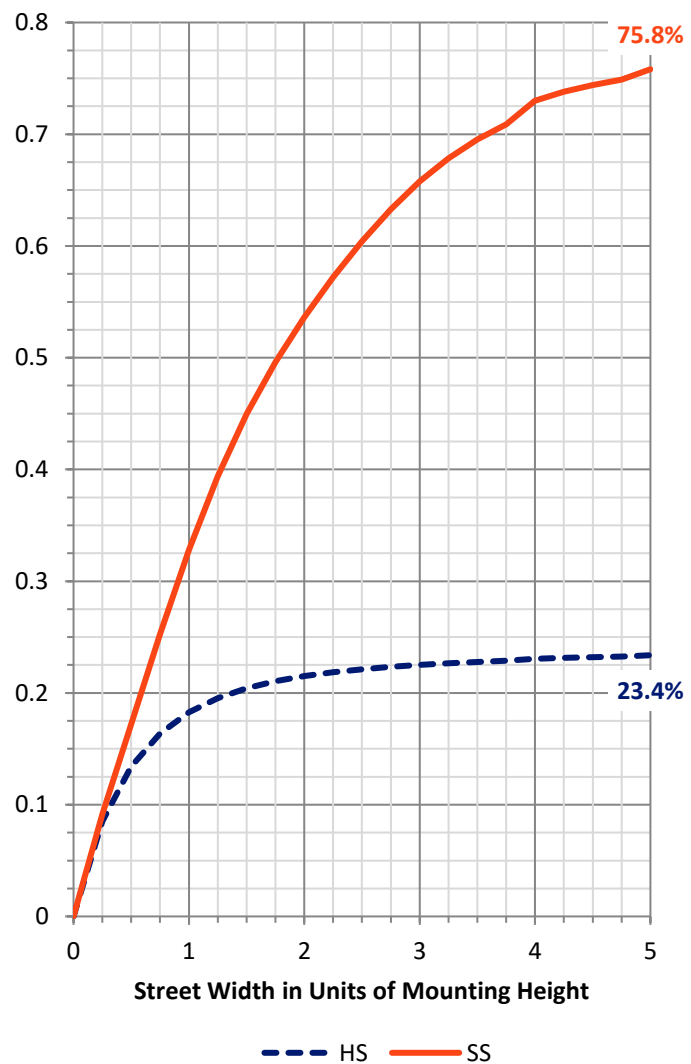
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6205.7   | 0.0    | 6205.7  |
|                    | % Fixture | 23.8     | 0.0    | 23.8    |
| <b>Street Side</b> | Lumens    | 19871.3  | 0.0    | 19871.3 |
|                    | % Fixture | 76.2     | 0.0    | 76.2    |
| <b>Total</b>       | Lumens    | 26077.0  | 0.0    | 26077.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 329.0   | 1.3       |
| 10°-20°   | 949.0   | 3.6       |
| 20°-30°   | 1593.6  | 6.1       |
| 30°-40°   | 2476.7  | 9.5       |
| 40°-50°   | 3676.1  | 14.1      |
| 50°-60°   | 5075.1  | 19.5      |
| 60°-70°   | 6157.2  | 23.6      |
| 70°-80°   | 5088.5  | 19.5      |
| 80°-90°   | 731.9   | 2.8       |
| 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°    | 26077.0 | 100.0     |
| 0°-180°   | 26077.0 | 100.0     |

**Coefficient of Utilization**



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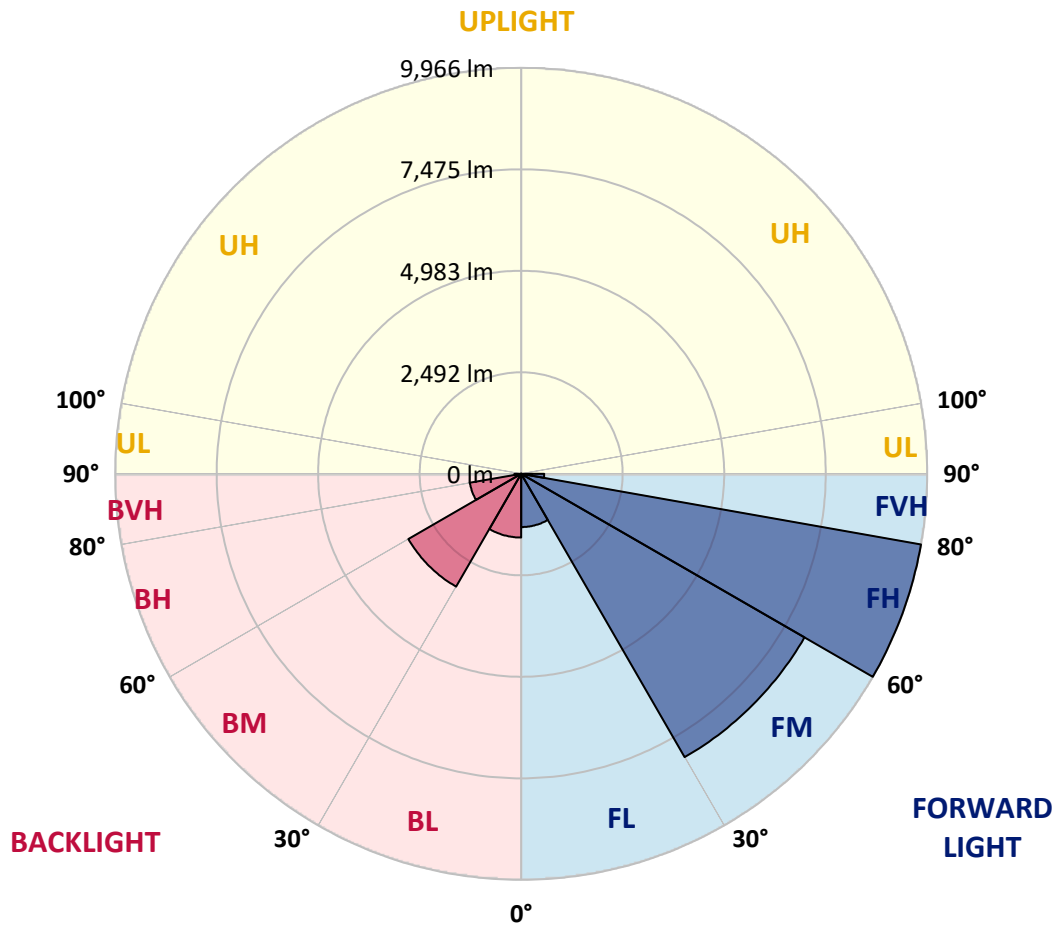
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1307.7 | 5.0       |                         |      |          |
| FM   | (30°-60°)   | 8030.3 | 30.8      |                         |      |          |
| FH   | (60°-80°)   | 9966.2 | 38.2      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 567.1  | 2.2       |                         |      | G4/750   |
| BL   | (0°-30°)    | 1563.9 | 6.0       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 3197.5 | 12.3      | B3/5000                 |      |          |
| BH   | (60°-80°)   | 1279.4 | 4.9       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 164.8  | 0.6       |                         |      | G2/225   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 36°     | 45°     | 55°     | 65°    | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|--------|---------|---------|
| 0°    | 3474.9  | 3474.9  | 3474.9  | 3474.9  | 3474.9  | 3474.9  | 3474.9  | 3474.9  | 3474.9 | 3474.9  | 3474.9  |
| 2.5°  | 3204.3  | 3224.0  | 3232.5  | 3228.2  | 3249.4  | 3246.6  | 3276.2  | 3312.8  | 3363.6 | 3412.9  | 3484.8  |
| 5°    | 2957.6  | 2978.7  | 2997.0  | 3014.0  | 3054.8  | 3067.5  | 3114.1  | 3184.5  | 3277.6 | 3372.0  | 3490.4  |
| 7.5°  | 2727.8  | 2746.1  | 2774.3  | 2805.3  | 2874.4  | 2887.1  | 2964.6  | 3074.6  | 3204.3 | 3342.4  | 3506.0  |
| 10°   | 2540.3  | 2558.6  | 2588.2  | 2623.5  | 2709.5  | 2725.0  | 2823.7  | 2970.3  | 3139.4 | 3314.2  | 3522.9  |
| 12.5° | 2459.9  | 2465.6  | 2482.5  | 2517.7  | 2592.5  | 2602.3  | 2710.9  | 2878.6  | 3076.0 | 3293.1  | 3548.2  |
| 15°   | 2455.7  | 2467.0  | 2468.4  | 2486.7  | 2548.8  | 2553.0  | 2653.1  | 2819.4  | 3036.5 | 3288.9  | 3586.3  |
| 17.5° | 2498.0  | 2506.5  | 2493.8  | 2505.1  | 2557.2  | 2564.3  | 2643.2  | 2791.2  | 3023.8 | 3307.2  | 3651.2  |
| 20°   | 2610.8  | 2617.8  | 2579.8  | 2564.3  | 2602.3  | 2608.0  | 2685.5  | 2809.6  | 3036.5 | 3345.2  | 3740.0  |
| 22.5° | 2850.4  | 2854.7  | 2761.6  | 2698.2  | 2701.0  | 2703.8  | 2771.5  | 2884.3  | 3085.9 | 3414.3  | 3852.7  |
| 25°   | 3224.0  | 3221.2  | 3073.2  | 2950.5  | 2880.0  | 2864.5  | 2909.6  | 3005.5  | 3169.0 | 3506.0  | 3997.9  |
| 27.5° | 3661.0  | 3639.9  | 3491.9  | 3308.6  | 3154.9  | 3132.4  | 3122.5  | 3163.4  | 3287.4 | 3627.2  | 4175.6  |
| 30°   | 4154.4  | 4134.7  | 3975.4  | 3735.7  | 3522.9  | 3486.2  | 3393.2  | 3372.0  | 3463.7 | 3792.1  | 4422.3  |
| 32.5° | 4695.7  | 4683.1  | 4492.7  | 4202.3  | 3917.6  | 3875.3  | 3718.8  | 3662.4  | 3734.3 | 4041.6  | 4766.2  |
| 35°   | 5149.7  | 5138.4  | 4980.5  | 4681.6  | 4333.5  | 4281.3  | 4122.0  | 4058.6  | 4095.2 | 4361.6  | 5215.9  |
| 37.5° | 5559.9  | 5554.3  | 5418.9  | 5183.5  | 4824.0  | 4760.6  | 4581.6  | 4560.4  | 4553.4 | 4783.1  | 5761.5  |
| 40°   | 5940.5  | 5926.4  | 5785.5  | 5661.4  | 5395.0  | 5337.2  | 5179.3  | 5161.0  | 5107.4 | 5301.9  | 6378.9  |
| 42.5° | 6362.0  | 6325.4  | 6121.0  | 6063.2  | 5991.3  | 5943.3  | 5848.9  | 5851.7  | 5733.3 | 5887.0  | 7033.0  |
| 45°   | 6706.0  | 6684.8  | 6474.8  | 6441.0  | 6518.5  | 6498.8  | 6580.5  | 6601.7  | 6371.9 | 6500.2  | 7712.5  |
| 47.5° | 7075.3  | 7055.6  | 6878.0  | 6854.0  | 7064.1  | 7069.7  | 7358.7  | 7365.7  | 6995.0 | 7137.4  | 8393.4  |
| 50°   | 7530.7  | 7502.5  | 7326.3  | 7355.9  | 7591.3  | 7612.4  | 8141.1  | 8093.1  | 7568.7 | 7784.4  | 9068.7  |
| 52.5° | 7830.9  | 7847.9  | 7809.8  | 7857.7  | 8179.1  | 8198.9  | 8910.8  | 8788.1  | 8136.8 | 8423.0  | 9731.2  |
| 55°   | 8052.3  | 8086.1  | 8204.5  | 8314.5  | 8799.4  | 8819.1  | 9636.8  | 9449.3  | 8607.7 | 9015.1  | 10354.3 |
| 57.5° | 8337.0  | 8289.1  | 8510.4  | 8724.7  | 9388.7  | 9440.8  | 10343.0 | 10086.5 | 9025.0 | 9525.4  | 10781.5 |
| 60°   | 8745.8  | 8712.0  | 8884.0  | 9201.2  | 10048.4 | 10131.6 | 11090.2 | 10660.2 | 9330.9 | 9930.0  | 10864.6 |
| 62.5° | 9574.8  | 9490.2  | 9517.0  | 9797.5  | 10880.1 | 10990.1 | 11933.2 | 11160.7 | 9483.1 | 10087.9 | 10419.2 |
| 65°   | 10813.9 | 10668.7 | 10533.4 | 10727.9 | 12051.6 | 12160.2 | 12884.8 | 11554.0 | 9426.7 | 9782.0  | 9236.4  |
| 67.5° | 12374.4 | 12230.6 | 12064.3 | 12247.6 | 13777.1 | 13863.1 | 14059.0 | 11775.3 | 8982.7 | 8603.5  | 7145.8  |
| 70°   | 13661.5 | 13607.9 | 13806.7 | 14560.9 | 16533.1 | 16535.9 | 15564.6 | 11592.1 | 7766.1 | 6099.8  | 4134.7  |
| 72.5° | 13490.9 | 13458.5 | 14505.9 | 16837.6 | 20006.6 | 19931.9 | 16989.8 | 10204.9 | 5231.4 | 2751.8  | 1549.3  |
| 75°   | 11067.6 | 11277.7 | 12900.3 | 16796.7 | 21254.2 | 21244.3 | 16117.2 | 6487.5  | 2163.9 | 1140.5  | 800.7   |
| 77.5° | 5934.9  | 6267.6  | 8375.1  | 12401.2 | 16592.3 | 16841.8 | 11331.3 | 2269.6  | 929.0  | 730.2   | 554.0   |
| 80°   | 1935.5  | 2225.9  | 3338.2  | 6314.1  | 10781.5 | 10734.9 | 4856.5  | 890.9   | 635.8  | 517.4   | 383.4   |
| 82.5° | 821.9   | 855.7   | 1491.5  | 2981.5  | 5533.1  | 5447.1  | 1546.5  | 511.7   | 446.9  | 353.8   | 236.8   |
| 85°   | 321.4   | 359.5   | 658.3   | 1378.7  | 2396.5  | 2344.3  | 558.2   | 253.7   | 286.2  | 231.2   | 141.0   |
| 87.5° | 105.7   | 128.3   | 235.4   | 472.3   | 745.7   | 719.0   | 136.7   | 87.4    | 124.1  | 105.7   | 50.7    |
| 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°    | 3474.9 | 3474.9 | 3474.9 | 3474.9 | 3474.9 | 3474.9 | 3474.9 | 3474.9 | 3474.9 | 3474.9 | 3474.9 |
| 2.5°  | 3504.5 | 3527.1 | 3553.9 | 3593.4 | 3627.2 | 3655.4 | 3685.0 | 3703.3 | 3710.4 | 3731.5 | 3730.1 |
| 5°    | 3529.9 | 3579.3 | 3645.5 | 3710.4 | 3773.8 | 3811.9 | 3845.7 | 3862.6 | 3878.1 | 3889.4 | 3892.2 |
| 7.5°  | 3572.2 | 3635.6 | 3740.0 | 3824.5 | 3878.1 | 3909.1 | 3931.7 | 3926.0 | 3931.7 | 3934.5 | 3938.7 |
| 10°   | 3608.9 | 3697.7 | 3821.7 | 3902.1 | 3943.0 | 3944.4 | 3938.7 | 3919.0 | 3909.1 | 3910.5 | 3913.4 |
| 12.5° | 3652.6 | 3751.2 | 3885.2 | 3952.8 | 3964.1 | 3933.1 | 3909.1 | 3875.3 | 3862.6 | 3857.0 | 3854.1 |
| 15°   | 3711.8 | 3824.5 | 3954.2 | 3979.6 | 3951.4 | 3911.9 | 3871.1 | 3816.1 | 3787.9 | 3765.3 | 3772.4 |
| 17.5° | 3783.7 | 3907.7 | 4007.8 | 3989.5 | 3928.9 | 3864.0 | 3797.8 | 3714.6 | 3656.8 | 3632.8 | 3634.2 |
| 20°   | 3883.8 | 3995.1 | 4048.7 | 3968.3 | 3876.7 | 3778.0 | 3665.2 | 3563.7 | 3510.2 | 3486.2 | 3483.4 |
| 22.5° | 4005.0 | 4112.1 | 4088.2 | 3931.7 | 3802.0 | 3644.1 | 3503.1 | 3428.4 | 3401.6 | 3384.7 | 3387.5 |
| 25°   | 4150.2 | 4241.8 | 4116.4 | 3878.1 | 3679.3 | 3466.5 | 3357.9 | 3334.0 | 3321.3 | 3308.6 | 3308.6 |
| 27.5° | 4339.1 | 4388.4 | 4137.5 | 3799.2 | 3487.6 | 3277.6 | 3238.1 | 3242.3 | 3238.1 | 3217.0 | 3221.2 |
| 30°   | 4588.6 | 4578.7 | 4157.2 | 3670.9 | 3267.7 | 3107.0 | 3109.8 | 3128.1 | 3131.0 | 3116.9 | 3123.9 |
| 32.5° | 4917.1 | 4817.0 | 4167.1 | 3504.5 | 3057.7 | 2957.6 | 2960.4 | 2980.1 | 2994.2 | 2970.3 | 2981.5 |
| 35°   | 5314.6 | 5094.7 | 4151.6 | 3295.9 | 2895.5 | 2815.2 | 2794.0 | 2799.7 | 2803.9 | 2781.4 | 2796.9 |
| 37.5° | 5778.4 | 5406.2 | 4082.5 | 3064.7 | 2761.6 | 2675.6 | 2630.5 | 2592.5 | 2569.9 | 2548.8 | 2562.9 |
| 40°   | 6287.3 | 5746.0 | 3955.6 | 2839.2 | 2612.2 | 2527.6 | 2459.9 | 2388.0 | 2311.9 | 2283.7 | 2296.4 |
| 42.5° | 6820.2 | 6095.6 | 3802.0 | 2623.5 | 2440.2 | 2371.1 | 2299.2 | 2194.9 | 2080.7 | 2022.9 | 2030.0 |
| 45°   | 7372.8 | 6453.7 | 3651.2 | 2410.6 | 2264.0 | 2234.4 | 2151.2 | 2025.8 | 1901.7 | 1828.4 | 1822.8 |
| 47.5° | 7914.1 | 6792.0 | 3429.8 | 2196.3 | 2099.1 | 2131.5 | 2066.6 | 1951.0 | 1812.9 | 1697.3 | 1684.6 |
| 50°   | 8431.5 | 7109.2 | 3067.5 | 1979.2 | 1965.1 | 2100.5 | 2038.4 | 1872.1 | 1714.2 | 1566.2 | 1553.5 |
| 52.5° | 8944.6 | 7365.7 | 2603.7 | 1781.9 | 1893.2 | 2092.0 | 2001.8 | 1818.5 | 1625.4 | 1470.3 | 1453.4 |
| 55°   | 9380.2 | 7498.3 | 2156.9 | 1612.7 | 1788.9 | 2020.1 | 1958.1 | 1755.1 | 1499.9 | 1335.0 | 1320.9 |
| 57.5° | 9628.3 | 7391.1 | 1784.7 | 1446.4 | 1645.1 | 1901.7 | 1883.4 | 1619.8 | 1350.5 | 1223.6 | 1206.7 |
| 60°   | 9521.2 | 6956.9 | 1480.2 | 1301.2 | 1508.4 | 1773.4 | 1753.7 | 1485.8 | 1236.3 | 1116.5 | 1099.6 |
| 62.5° | 8930.5 | 6129.4 | 1239.1 | 1174.3 | 1384.3 | 1642.3 | 1624.0 | 1382.9 | 1148.9 | 1033.3 | 1015.0 |
| 65°   | 7740.7 | 4986.1 | 1051.6 | 1068.6 | 1258.9 | 1484.4 | 1511.2 | 1296.9 | 1079.8 | 967.1  | 948.7  |
| 67.5° | 5903.9 | 3611.7 | 905.0  | 976.9  | 1136.2 | 1329.4 | 1406.9 | 1234.9 | 1022.0 | 914.9  | 898.0  |
| 70°   | 3365.0 | 2051.1 | 781.0  | 888.1  | 1027.7 | 1185.6 | 1326.5 | 1185.6 | 960.0  | 871.2  | 859.9  |
| 72.5° | 1275.8 | 941.7  | 675.3  | 799.3  | 923.4  | 1064.3 | 1237.7 | 1108.0 | 888.1  | 821.9  | 810.6  |
| 75°   | 680.9  | 573.8  | 568.1  | 695.0  | 803.5  | 945.9  | 1126.4 | 1031.9 | 834.5  | 868.4  | 896.6  |
| 77.5° | 463.8  | 406.0  | 475.1  | 594.9  | 672.4  | 814.8  | 1007.9 | 916.3  | 723.2  | 720.4  | 664.0  |
| 80°   | 321.4  | 287.6  | 386.3  | 479.3  | 520.2  | 685.1  | 879.7  | 786.6  | 589.3  | 549.8  | 525.8  |
| 82.5° | 193.1  | 187.5  | 289.0  | 358.1  | 367.9  | 528.6  | 728.8  | 659.7  | 482.1  | 420.1  | 422.9  |
| 85°   | 105.7  | 111.4  | 184.7  | 210.0  | 214.3  | 369.3  | 570.9  | 510.3  | 370.8  | 311.5  | 314.4  |
| 87.5° | 29.6   | 38.1   | 67.7   | 83.2   | 102.9  | 191.7  | 339.7  | 303.1  | 186.1  | 129.7  | 129.7  |
| 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)