

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: P944678

Luminaire Tested: **GALN-SB9D-727-U-T4FT-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P944678  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB9D-727-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 65092 lumens  
Efficiency: N/A  
Efficacy: 98.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 658  
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

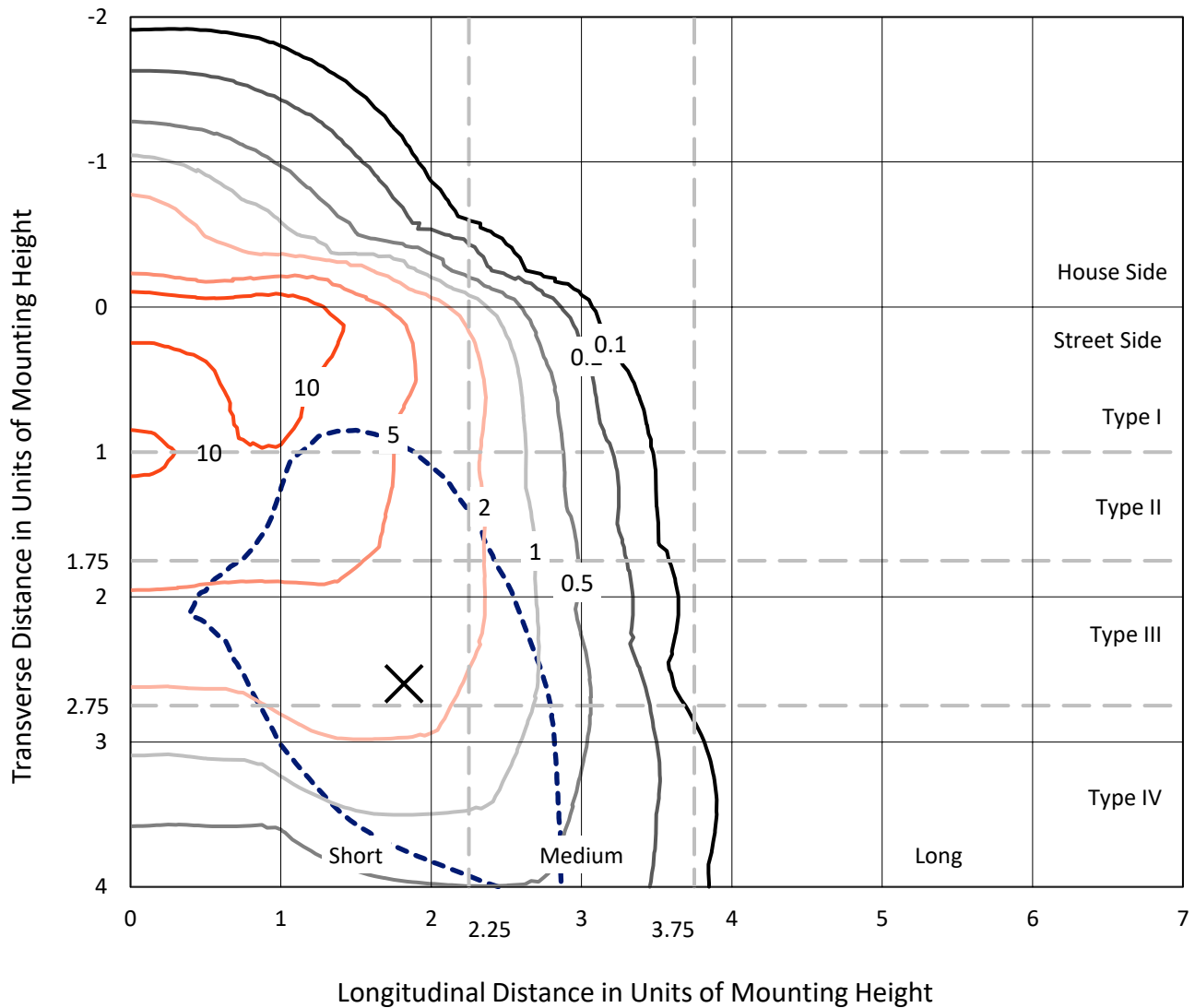


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## Iso-Footcandle Lines of Horizontal Illumination

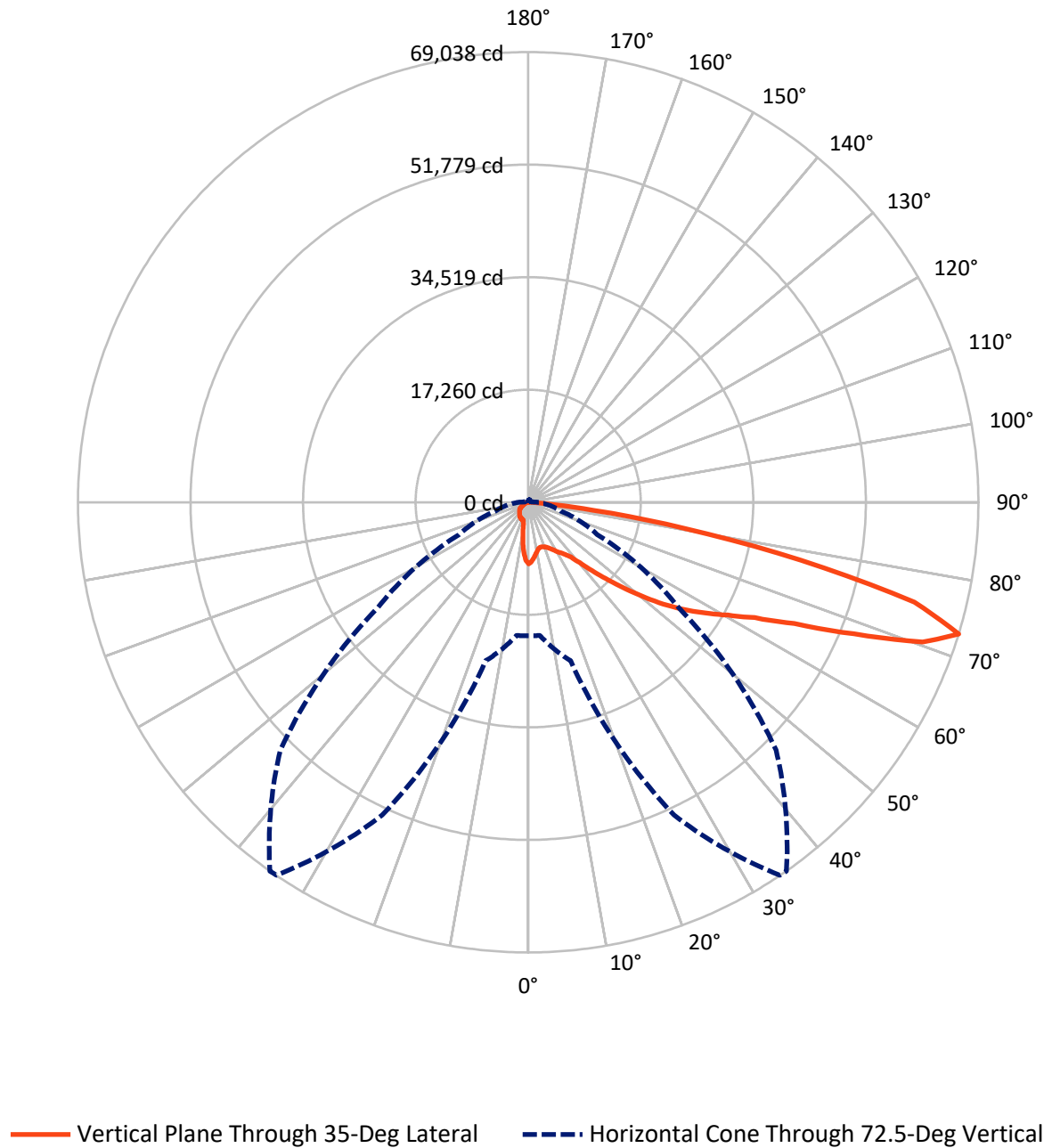
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 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    | 7325.8   | 0.0    | 7325.8  |
|                    | % Fixture | 11.3     | 0.0    | 11.3    |
| <b>Street Side</b> | Lumens    | 57766.2  | 0.0    | 57766.2 |
|                    | % Fixture | 88.7     | 0.0    | 88.7    |
| <b>Total</b>       | Lumens    | 65092.0  | 0.0    | 65092.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 775.2   | 1.2       |
| 10°-20°   | 1813.5  | 2.8       |
| 20°-30°   | 2946.1  | 4.5       |
| 30°-40°   | 4915.5  | 7.6       |
| 40°-50°   | 9300.2  | 14.3      |
| 50°-60°   | 14777.9 | 22.7      |
| 60°-70°   | 18281.4 | 28.1      |
| 70°-80°   | 11363.8 | 17.5      |
| 80°-90°   | 918.4   | 1.4       |
| 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°    | 65092.0 | 100.0     |
| 0°-180°   | 65092.0 | 100.0     |

**Coefficient of Utilization**



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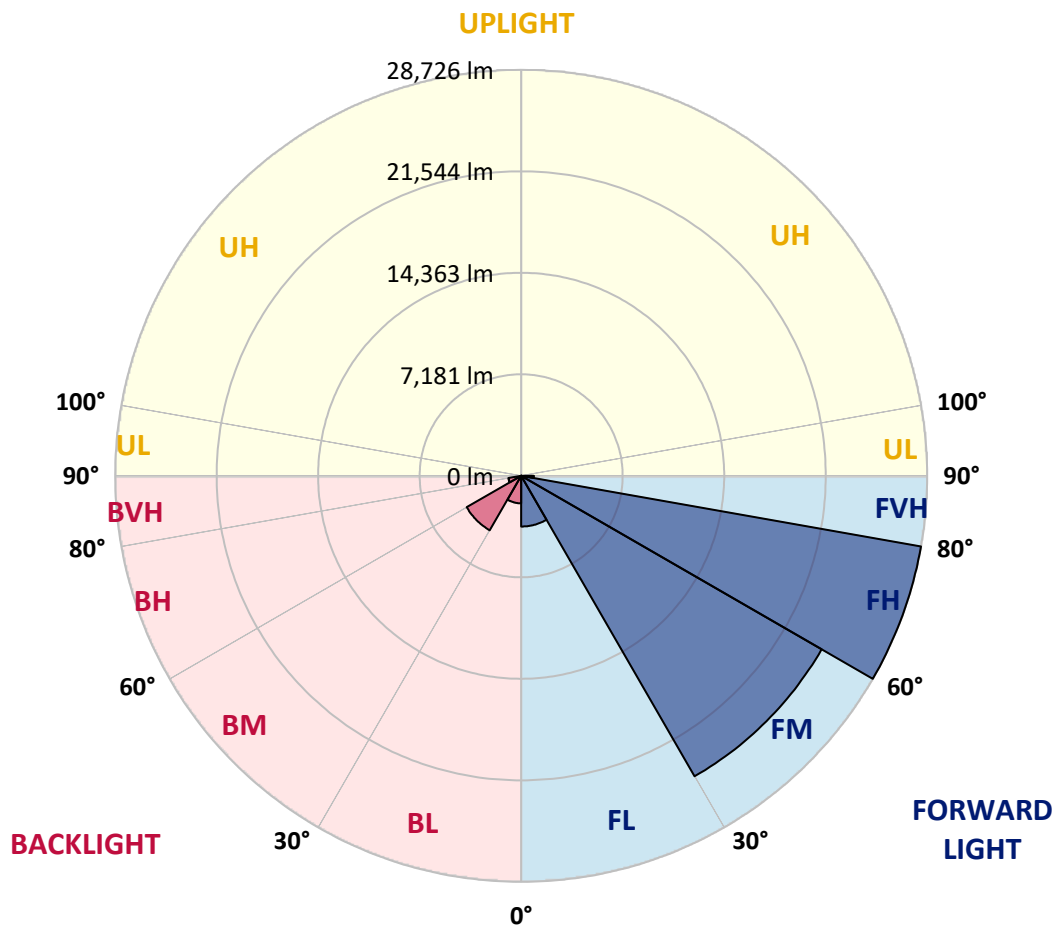
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3588.2  | 5.5       |                         |      |         |
| FM   | (30°-60°)   | 24546.2 | 37.7      |                         |      |         |
| FH   | (60°-80°)   | 28725.9 | 44.1      |                         |      | G5      |
| FVH  | (80°-90°)   | 905.9   | 1.4       |                         |      | G5      |
| BL   | (0°-30°)    | 1946.6  | 3.0       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 4447.4  | 6.8       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 919.3   | 1.4       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 12.5    | 0.0       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 34°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 9434.0  | 9434.0  | 9434.0  | 9434.0  | 9434.0  | 9434.0  | 9434.0  | 9434.0  | 9434.0  | 9434.0  | 9434.0  |
| 2.5°  | 9014.3  | 9090.6  | 9104.9  | 9128.8  | 9128.8  | 9157.4  | 9205.1  | 9271.9  | 9381.5  | 9438.8  | 9476.9  |
| 5°    | 8308.4  | 8365.7  | 8437.2  | 8494.4  | 8604.1  | 8618.4  | 8804.4  | 8985.7  | 9238.5  | 9429.2  | 9562.8  |
| 7.5°  | 7597.8  | 7664.5  | 7759.9  | 7898.2  | 8041.3  | 8084.3  | 8365.7  | 8670.9  | 9071.5  | 9429.2  | 9653.4  |
| 10°   | 7097.0  | 7101.7  | 7187.6  | 7325.9  | 7554.8  | 7607.3  | 7950.7  | 8384.7  | 8885.5  | 9372.0  | 9739.3  |
| 12.5° | 6815.6  | 6849.0  | 6887.1  | 6992.0  | 7211.4  | 7244.8  | 7612.1  | 8122.4  | 8699.5  | 9338.6  | 9839.4  |
| 15°   | 6815.6  | 6839.4  | 6863.3  | 6915.7  | 7092.2  | 7120.8  | 7445.1  | 7955.5  | 8604.1  | 9352.9  | 10001.6 |
| 17.5° | 6887.1  | 6925.3  | 6906.2  | 6968.2  | 7154.2  | 7173.3  | 7459.5  | 7907.8  | 8599.4  | 9443.6  | 10249.6 |
| 20°   | 7058.8  | 7087.4  | 7049.3  | 7087.4  | 7273.4  | 7311.6  | 7607.3  | 7998.4  | 8680.4  | 9600.9  | 10559.6 |
| 22.5° | 7330.7  | 7345.0  | 7254.4  | 7283.0  | 7473.8  | 7521.5  | 7864.9  | 8256.0  | 8876.0  | 9853.7  | 10974.6 |
| 25°   | 7674.1  | 7702.7  | 7564.4  | 7597.8  | 7779.0  | 7836.2  | 8232.1  | 8642.3  | 9186.0  | 10201.9 | 11504.0 |
| 27.5° | 8069.9  | 8084.3  | 7965.0  | 7960.2  | 8194.0  | 8275.0  | 8675.7  | 9119.2  | 9600.9  | 10640.7 | 12171.7 |
| 30°   | 8523.0  | 8566.0  | 8451.5  | 8432.4  | 8728.1  | 8794.9  | 9190.8  | 9705.9  | 10211.4 | 11298.9 | 13120.8 |
| 32.5° | 8880.8  | 8914.1  | 8847.4  | 8895.1  | 9195.5  | 9248.0  | 9815.6  | 10535.8 | 11170.1 | 12233.7 | 14413.3 |
| 35°   | 9395.9  | 9414.9  | 9262.3  | 9348.2  | 9691.6  | 9825.1  | 10669.3 | 11699.5 | 12376.8 | 13407.0 | 16101.7 |
| 37.5° | 11260.7 | 11260.7 | 10612.1 | 10187.6 | 10516.7 | 10635.9 | 11837.8 | 13163.7 | 13864.9 | 14980.9 | 18228.9 |
| 40°   | 13841.0 | 13798.1 | 12849.0 | 11980.9 | 11938.0 | 12171.7 | 13502.4 | 15009.5 | 15786.9 | 16869.6 | 20623.2 |
| 42.5° | 16593.0 | 16526.2 | 15233.7 | 14375.2 | 14232.1 | 14313.2 | 15424.5 | 17284.6 | 18076.3 | 19173.3 | 23198.7 |
| 45°   | 19035.0 | 19015.9 | 17833.1 | 16678.8 | 16421.3 | 16678.8 | 17823.5 | 19945.9 | 20513.5 | 21667.7 | 25769.5 |
| 47.5° | 21081.1 | 21081.1 | 20217.8 | 19464.2 | 19330.7 | 19483.3 | 21071.5 | 22898.2 | 22845.8 | 24324.3 | 28273.4 |
| 50°   | 23437.2 | 23418.1 | 22597.8 | 22273.4 | 22411.7 | 22626.4 | 24810.8 | 26007.9 | 25259.1 | 26933.2 | 30510.3 |
| 52.5° | 25087.4 | 25201.9 | 24920.5 | 24868.0 | 25573.9 | 25945.9 | 28607.3 | 29050.8 | 27419.7 | 29408.6 | 32184.4 |
| 55°   | 26394.3 | 26527.8 | 26852.1 | 27219.4 | 28578.7 | 29065.2 | 32284.5 | 31936.4 | 29227.3 | 31554.8 | 33147.8 |
| 57.5° | 28244.8 | 28054.0 | 28554.8 | 29279.8 | 31478.5 | 32065.2 | 35847.3 | 34659.7 | 30682.0 | 33295.7 | 33252.8 |
| 60°   | 30491.2 | 30519.8 | 30605.7 | 31521.4 | 34373.6 | 35127.2 | 39357.7 | 37235.3 | 31616.8 | 34364.0 | 32089.0 |
| 62.5° | 33190.7 | 33233.7 | 33410.1 | 34817.1 | 38260.7 | 38971.3 | 43096.9 | 39343.4 | 32046.1 | 34063.6 | 29084.2 |
| 65°   | 33004.7 | 33186.0 | 35155.8 | 39968.2 | 44170.1 | 44871.2 | 47461.0 | 40821.9 | 31397.4 | 31316.3 | 23680.4 |
| 67.5° | 30066.7 | 30362.5 | 33658.2 | 46120.8 | 53079.4 | 53861.6 | 52736.0 | 41112.8 | 28597.7 | 24352.9 | 15448.3 |
| 70°   | 26213.0 | 26317.9 | 30281.4 | 51653.4 | 63395.8 | 64187.5 | 57457.8 | 37912.5 | 21701.1 | 13583.5 | 6920.5  |
| 72.5° | 20470.6 | 20494.4 | 25144.6 | 52936.4 | 68995.2 | 69038.1 | 53751.9 | 28144.6 | 11670.9 | 5217.8  | 2403.8  |
| 75°   | 14623.2 | 14480.1 | 16841.0 | 42930.0 | 60701.1 | 61187.5 | 40297.3 | 13201.9 | 4459.5  | 2465.8  | 1197.1  |
| 77.5° | 7841.0  | 7998.4  | 9529.4  | 25459.4 | 41933.2 | 42763.1 | 21987.3 | 3806.0  | 2270.3  | 1678.9  | 791.7   |
| 80°   | 2422.9  | 2556.4  | 3906.2  | 11656.6 | 23752.0 | 24252.8 | 8151.0  | 1693.2  | 1583.5  | 1197.1  | 519.9   |
| 82.5° | 763.1   | 791.7   | 1821.9  | 4898.2  | 9858.5  | 10087.4 | 2360.9  | 958.7   | 1082.7  | 791.7   | 305.2   |
| 85°   | 219.4   | 224.2   | 810.8   | 1826.7  | 2437.2  | 2484.9  | 663.0   | 372.0   | 620.0   | 491.3   | 157.4   |
| 87.5° | 23.8    | 76.3    | 305.2   | 305.2   | 214.6   | 209.9   | 71.5    | 81.1    | 176.5   | 62.0    | 28.6    |
| 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°    | 9434.0  | 9434.0  | 9434.0 | 9434.0 | 9434.0 | 9434.0 | 9434.0 | 9434.0 | 9434.0 | 9434.0 | 9434.0 |
| 2.5°  | 9453.1  | 9457.9  | 9395.9 | 9290.9 | 9176.5 | 9081.1 | 8961.8 | 8866.4 | 8799.7 | 8780.6 | 8814.0 |
| 5°    | 9519.9  | 9486.5  | 9310.0 | 8990.5 | 8608.9 | 8279.8 | 7912.6 | 7621.6 | 7430.8 | 7349.8 | 7378.4 |
| 7.5°  | 9620.0  | 9524.6  | 9138.3 | 8508.7 | 7779.0 | 7130.4 | 6472.2 | 5961.8 | 5637.5 | 5475.4 | 5499.2 |
| 10°   | 9705.9  | 9515.1  | 8852.1 | 7812.4 | 6696.3 | 5713.8 | 4826.7 | 4211.4 | 3868.0 | 3705.9 | 3710.6 |
| 12.5° | 9787.0  | 9510.3  | 8480.1 | 6987.3 | 5475.4 | 4273.4 | 3448.3 | 3143.1 | 3047.7 | 3014.3 | 3004.8 |
| 15°   | 9939.6  | 9524.6  | 8012.7 | 6042.9 | 4259.1 | 3228.9 | 2928.5 | 2923.7 | 2942.8 | 2933.2 | 2928.5 |
| 17.5° | 10149.4 | 9538.9  | 7483.3 | 5041.3 | 3286.2 | 2847.4 | 2833.1 | 2876.0 | 2904.6 | 2890.3 | 2885.5 |
| 20°   | 10421.3 | 9596.2  | 6920.5 | 4049.3 | 2823.5 | 2752.0 | 2785.4 | 2823.5 | 2847.4 | 2823.5 | 2818.8 |
| 22.5° | 10802.9 | 9696.3  | 6305.2 | 3252.8 | 2675.7 | 2694.8 | 2723.4 | 2766.3 | 2790.1 | 2756.8 | 2752.0 |
| 25°   | 11270.3 | 9853.7  | 5699.5 | 2828.3 | 2604.1 | 2628.0 | 2670.9 | 2718.6 | 2747.2 | 2713.8 | 2709.1 |
| 27.5° | 11876.0 | 10106.5 | 5141.5 | 2732.9 | 2532.6 | 2546.9 | 2608.9 | 2680.4 | 2718.6 | 2675.7 | 2675.7 |
| 30°   | 12753.6 | 10521.5 | 4659.8 | 2775.8 | 2489.7 | 2456.3 | 2542.1 | 2642.3 | 2685.2 | 2647.1 | 2642.3 |
| 32.5° | 13917.3 | 11108.1 | 4364.1 | 2842.6 | 2470.6 | 2351.3 | 2432.4 | 2561.2 | 2632.7 | 2608.9 | 2608.9 |
| 35°   | 15443.5 | 12000.0 | 4249.6 | 2918.9 | 2456.3 | 2241.7 | 2298.9 | 2437.2 | 2561.2 | 2585.1 | 2585.1 |
| 37.5° | 17294.1 | 13240.1 | 4283.0 | 2952.3 | 2413.4 | 2151.0 | 2179.6 | 2298.9 | 2461.0 | 2537.4 | 2556.4 |
| 40°   | 19397.4 | 14685.2 | 4473.8 | 2918.9 | 2365.7 | 2074.7 | 2079.5 | 2170.1 | 2313.2 | 2427.7 | 2465.8 |
| 42.5° | 21567.5 | 16373.6 | 4826.7 | 2794.9 | 2322.7 | 2007.9 | 1993.6 | 2055.6 | 2151.0 | 2232.1 | 2265.5 |
| 45°   | 23632.7 | 18109.7 | 5174.9 | 2623.2 | 2270.3 | 1941.2 | 1907.8 | 1931.6 | 1950.7 | 1984.1 | 2003.2 |
| 47.5° | 25435.6 | 19330.7 | 5074.7 | 2465.8 | 2198.7 | 1864.9 | 1807.6 | 1798.1 | 1740.9 | 1736.1 | 1731.3 |
| 50°   | 26680.4 | 19597.8 | 4507.1 | 2308.4 | 2093.8 | 1779.0 | 1688.4 | 1631.2 | 1531.0 | 1483.3 | 1488.1 |
| 52.5° | 27076.3 | 18543.7 | 3682.0 | 2151.0 | 1922.1 | 1664.5 | 1535.8 | 1445.1 | 1321.1 | 1278.2 | 1273.4 |
| 55°   | 26551.6 | 16478.5 | 2942.8 | 1960.3 | 1683.6 | 1511.9 | 1368.8 | 1249.6 | 1149.4 | 1097.0 | 1097.0 |
| 57.5° | 25268.7 | 13850.5 | 2327.5 | 1736.1 | 1430.8 | 1340.2 | 1197.1 | 1077.9 | 992.0  | 939.6  | 930.0  |
| 60°   | 23141.5 | 10998.4 | 1841.0 | 1469.0 | 1221.0 | 1154.2 | 1006.4 | 930.0  | 853.7  | 791.7  | 777.4  |
| 62.5° | 19912.5 | 7850.5  | 1445.1 | 1163.8 | 1020.7 | 944.4  | 858.5  | 801.3  | 710.7  | 624.8  | 610.5  |
| 65°   | 15538.9 | 4802.9  | 1116.1 | 853.7  | 820.3  | 782.2  | 729.7  | 677.3  | 567.6  | 481.7  | 467.4  |
| 67.5° | 9801.3  | 2275.0  | 796.5  | 643.9  | 648.6  | 629.6  | 605.7  | 562.8  | 481.7  | 405.4  | 395.9  |
| 70°   | 4316.4  | 1101.7  | 524.6  | 491.3  | 481.7  | 481.7  | 500.8  | 486.5  | 410.2  | 338.6  | 324.3  |
| 72.5° | 1469.0  | 591.4   | 391.1  | 372.0  | 348.2  | 343.4  | 419.7  | 405.4  | 329.1  | 262.3  | 248.0  |
| 75°   | 767.9   | 395.9   | 286.2  | 267.1  | 209.9  | 252.8  | 333.9  | 314.8  | 233.7  | 171.7  | 157.4  |
| 77.5° | 500.8   | 281.4   | 195.5  | 171.7  | 119.2  | 166.9  | 248.0  | 219.4  | 138.3  | 85.9   | 76.3   |
| 80°   | 314.8   | 186.0   | 114.5  | 81.1   | 57.2   | 90.6   | 133.5  | 95.4   | 52.5   | 19.1   | 14.3   |
| 82.5° | 166.9   | 95.4    | 42.9   | 28.6   | 23.8   | 28.6   | 33.4   | 23.8   | 9.5    | 0.0    | 0.0    |
| 85°   | 66.8    | 33.4    | 14.3   | 9.5    | 4.8    | 0.0    | 9.5    | 4.8    | 0.0    | 0.0    | 0.0    |
| 87.5° | 23.8    | 4.8     | 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)