

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: P957009

Luminaire Tested: **GALN-SB9C-727-U-T4W**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P957009  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9C-727-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 63147 lumens  
Efficiency: N/A  
Efficacy: 140.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 449.8  
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



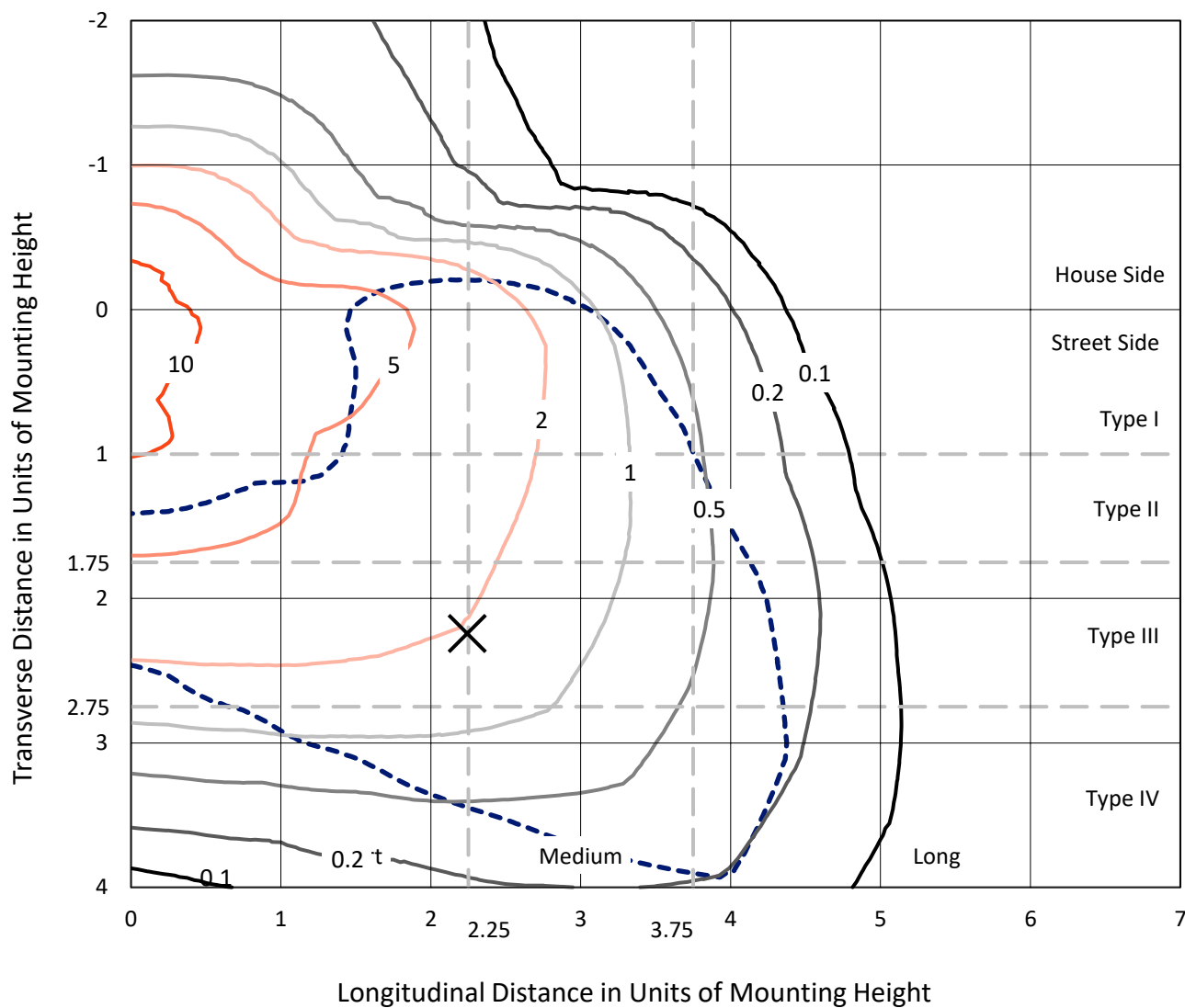
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



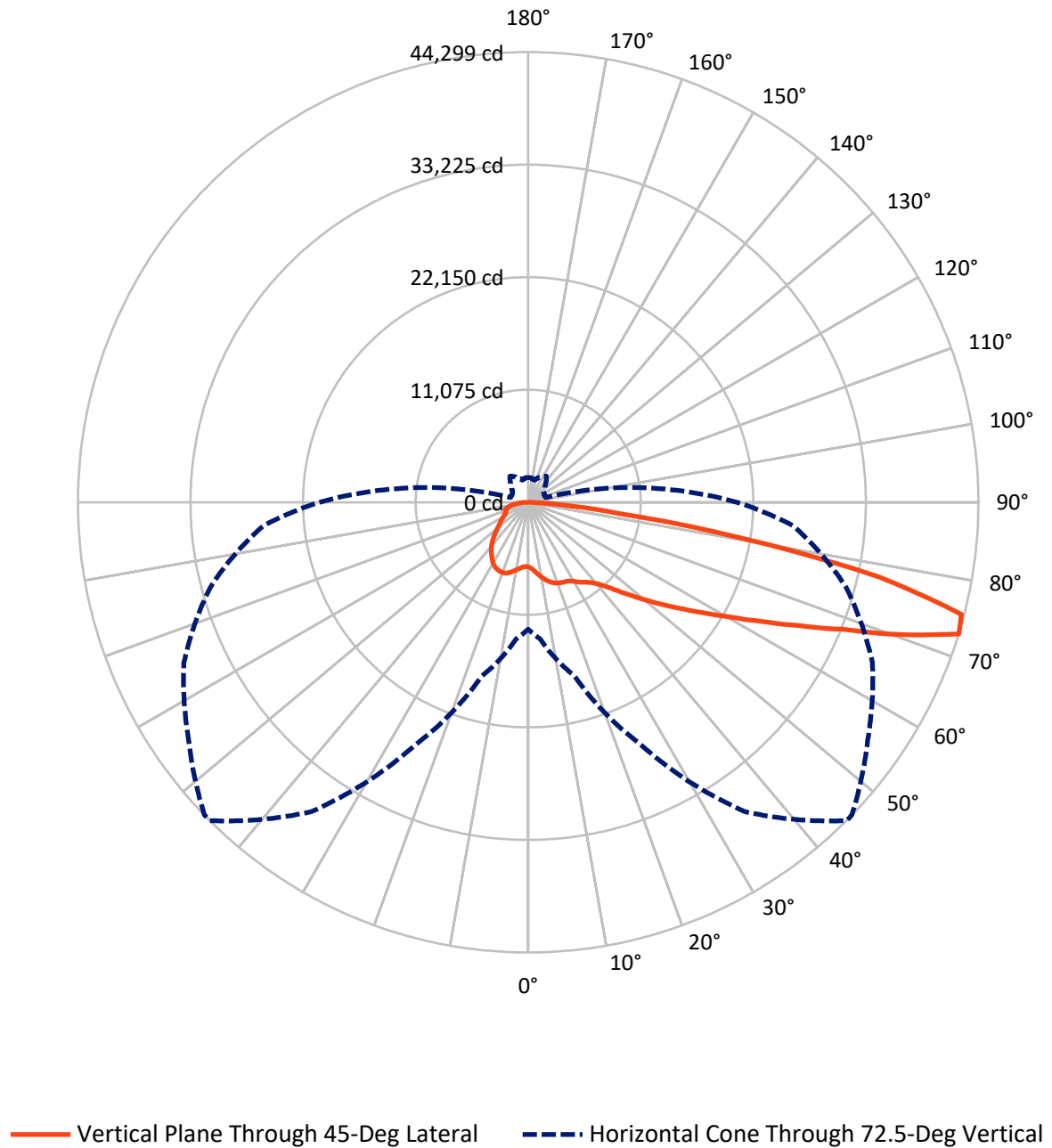
Based on 25 foot mounting height. Maximum calculated value = 12.6 fc

Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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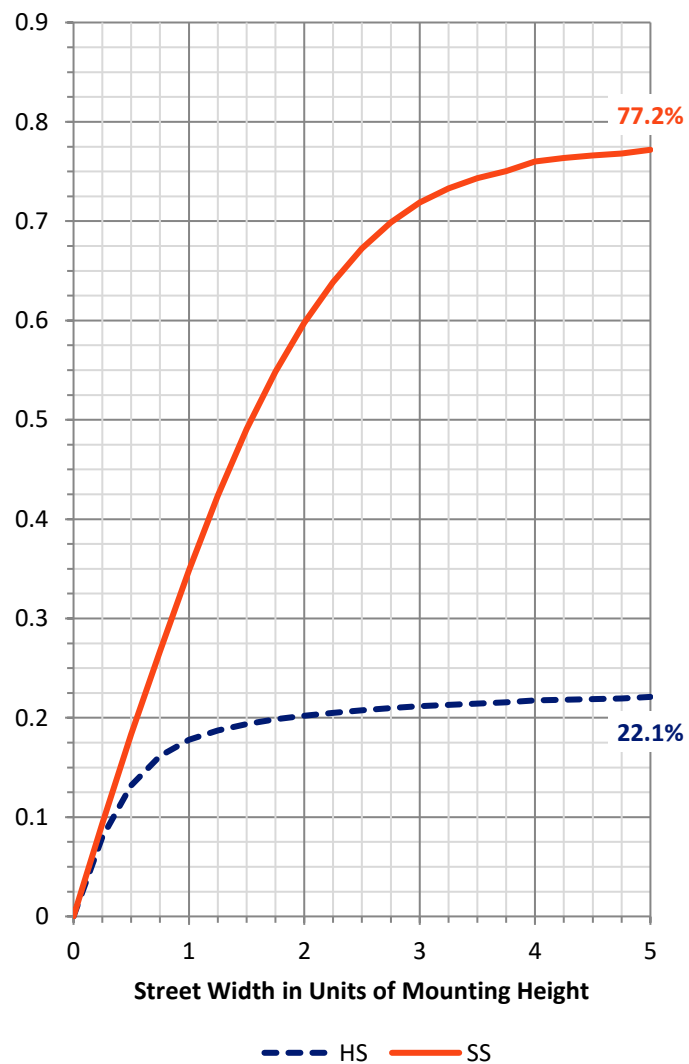
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 14275.4  | 0.0    | 14275.4 |
|                    | % Fixture | 22.6     | 0.0    | 22.6    |
| <b>Street Side</b> | Lumens    | 48871.6  | 0.0    | 48871.6 |
|                    | % Fixture | 77.4     | 0.0    | 77.4    |
| <b>Total</b>       | Lumens    | 63147.0  | 0.0    | 63147.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 648.4   | 1.0       |
| 10°-20°   | 2161.8  | 3.4       |
| 20°-30°   | 3760.5  | 6.0       |
| 30°-40°   | 5390.9  | 8.5       |
| 40°-50°   | 7590.7  | 12.0      |
| 50°-60°   | 11626.7 | 18.4      |
| 60°-70°   | 16842.9 | 26.7      |
| 70°-80°   | 13450.1 | 21.3      |
| 80°-90°   | 1675.2  | 2.7       |
| 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°    | 63147.0 | 100.0     |
| 0°-180°   | 63147.0 | 100.0     |

**Coefficient of Utilization**



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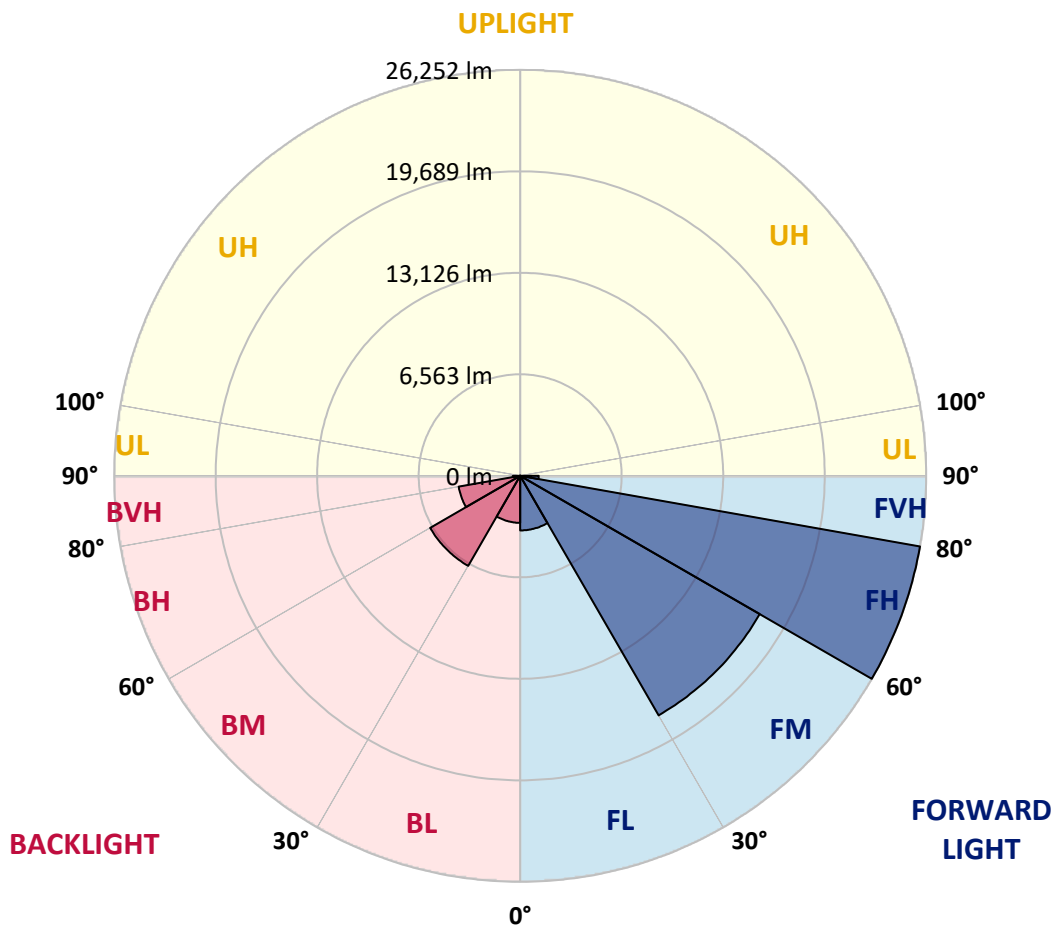
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3531.3  | 5.6       |                         |      |         |
| FM   | (30°-60°)   | 17886.5 | 28.3      |                         |      |         |
| FH   | (60°-80°)   | 26252.1 | 41.6      |                         |      | G5      |
| FVH  | (80°-90°)   | 1201.8  | 1.9       |                         |      | G5      |
| BL   | (0°-30°)    | 3039.3  | 4.8       | B4/5000                 |      |         |
| BM   | (30°-60°)   | 6721.7  | 10.6      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 4041.0  | 6.4       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 473.4   | 0.7       |                         |      | G3/500  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 46°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6370.3  | 6370.3  | 6370.3  | 6370.3  | 6370.3  | 6370.3  | 6370.3  | 6370.3  | 6370.3  | 6370.3  | 6370.3  |
| 2.5°  | 6619.8  | 6663.0  | 6623.1  | 6586.5  | 6569.9  | 6526.7  | 6523.3  | 6496.7  | 6480.1  | 6433.5  | 6420.2  |
| 5°    | 7082.2  | 7138.7  | 7072.2  | 6999.0  | 6932.5  | 6826.0  | 6812.7  | 6736.2  | 6649.7  | 6549.9  | 6493.4  |
| 7.5°  | 7604.4  | 7654.3  | 7577.8  | 7468.1  | 7351.6  | 7175.3  | 7172.0  | 7032.3  | 6895.9  | 6726.2  | 6629.8  |
| 10°   | 8060.2  | 8126.7  | 8023.6  | 7873.9  | 7727.5  | 7527.9  | 7504.6  | 7345.0  | 7172.0  | 6952.4  | 6806.1  |
| 12.5° | 8462.7  | 8509.3  | 8409.5  | 8226.5  | 8056.9  | 7857.3  | 7827.3  | 7651.0  | 7458.1  | 7208.6  | 7022.3  |
| 15°   | 8782.0  | 8841.9  | 8708.9  | 8512.6  | 8333.0  | 8136.7  | 8110.1  | 7950.4  | 7757.5  | 7494.7  | 7255.2  |
| 17.5° | 8991.6  | 9041.5  | 8905.1  | 8685.6  | 8512.6  | 8349.6  | 8329.6  | 8196.6  | 8026.9  | 7760.8  | 7504.6  |
| 20°   | 9071.4  | 9124.7  | 8981.6  | 8758.8  | 8599.1  | 8472.7  | 8462.7  | 8366.2  | 8249.8  | 8007.0  | 7747.5  |
| 22.5° | 9151.3  | 9201.2  | 9014.9  | 8782.0  | 8642.3  | 8562.5  | 8559.2  | 8496.0  | 8449.4  | 8249.8  | 7997.0  |
| 25°   | 9474.0  | 9487.3  | 9237.8  | 8901.8  | 8702.2  | 8632.3  | 8629.0  | 8625.7  | 8645.6  | 8489.3  | 8266.4  |
| 27.5° | 9753.4  | 9750.1  | 9537.2  | 9221.1  | 8911.8  | 8765.4  | 8762.1  | 8795.3  | 8858.5  | 8728.8  | 8545.9  |
| 30°   | 10162.5 | 10126.0 | 9873.1  | 9543.8  | 9261.1  | 9034.9  | 9014.9  | 8985.0  | 9034.9  | 8931.7  | 8825.3  |
| 32.5° | 11030.8 | 10914.3 | 10505.2 | 9919.7  | 9550.5  | 9377.5  | 9350.9  | 9164.6  | 9184.5  | 9121.3  | 9068.1  |
| 35°   | 12274.9 | 12121.9 | 11576.3 | 10631.6 | 9909.7  | 9663.6  | 9650.3  | 9414.1  | 9374.2  | 9317.6  | 9337.6  |
| 37.5° | 13755.2 | 13565.6 | 12930.2 | 11662.8 | 10528.5 | 9996.2  | 9976.3  | 9763.4  | 9600.4  | 9540.5  | 9653.6  |
| 40°   | 15242.2 | 15002.6 | 14477.1 | 12920.2 | 11439.9 | 10551.8 | 10488.5 | 10165.9 | 9979.6  | 9879.8  | 10119.3 |
| 42.5° | 16685.9 | 16486.3 | 16037.2 | 14330.7 | 12564.3 | 11363.4 | 11223.7 | 10671.5 | 10531.8 | 10438.6 | 10871.1 |
| 45°   | 17963.3 | 17783.6 | 17454.3 | 15837.6 | 13881.6 | 12467.8 | 12331.4 | 11430.0 | 11386.7 | 11386.7 | 12012.1 |
| 47.5° | 19001.1 | 18961.2 | 18611.9 | 17374.5 | 15435.1 | 13725.3 | 13489.1 | 12484.5 | 12600.9 | 12780.5 | 13632.1 |
| 50°   | 20152.1 | 20042.3 | 19669.8 | 18888.0 | 17261.4 | 15165.6 | 14972.7 | 13778.5 | 14214.3 | 14706.6 | 15974.0 |
| 52.5° | 21209.9 | 21269.8 | 20854.0 | 20464.8 | 19323.8 | 16772.4 | 16433.1 | 15305.4 | 16246.8 | 17061.8 | 18718.4 |
| 55°   | 22297.7 | 22301.1 | 22184.6 | 22131.4 | 21486.1 | 18548.7 | 18176.2 | 17141.6 | 18638.5 | 19649.8 | 21918.5 |
| 57.5° | 23319.0 | 23325.6 | 23498.6 | 23967.6 | 23994.3 | 20597.9 | 20175.4 | 19397.0 | 21296.4 | 22327.7 | 25218.4 |
| 60°   | 24230.4 | 24277.0 | 24749.4 | 25847.1 | 26199.7 | 22946.4 | 22547.2 | 22061.5 | 24044.2 | 25082.0 | 28688.0 |
| 62.5° | 24536.5 | 24706.1 | 25757.3 | 27317.5 | 28378.6 | 25827.2 | 25434.6 | 25145.2 | 26931.6 | 27896.3 | 31588.7 |
| 65°   | 24017.5 | 24406.7 | 26439.3 | 28531.6 | 30620.7 | 29250.2 | 28861.0 | 28544.9 | 29932.1 | 30840.3 | 33970.5 |
| 67.5° | 22743.5 | 23245.8 | 26399.3 | 29805.7 | 33341.8 | 33368.4 | 33005.8 | 32264.0 | 33148.9 | 33498.1 | 34745.6 |
| 70°   | 19387.0 | 20138.8 | 24074.1 | 30281.4 | 36465.4 | 39000.2 | 38650.9 | 36741.5 | 36359.0 | 34669.1 | 32563.4 |
| 72.5° | 12491.1 | 13502.4 | 17727.1 | 26366.1 | 37160.7 | 44299.4 | 44279.4 | 40783.2 | 37373.6 | 32393.7 | 26116.6 |
| 75°   | 4557.3  | 5176.1  | 8236.5  | 16549.5 | 31192.9 | 44029.9 | 44159.7 | 40091.3 | 34116.9 | 25022.2 | 16270.1 |
| 77.5° | 1659.9  | 1816.3  | 2687.8  | 6360.3  | 19184.1 | 35327.7 | 35597.2 | 32051.1 | 24283.7 | 12557.6 | 6446.8  |
| 80°   | 871.6   | 958.0   | 1377.2  | 2468.3  | 8219.9  | 20980.4 | 21402.9 | 19047.7 | 11413.3 | 3782.3  | 1932.7  |
| 82.5° | 482.3   | 522.3   | 771.8   | 1340.6  | 3702.4  | 8971.6  | 9224.5  | 7524.6  | 4015.1  | 1603.4  | 798.4   |
| 85°   | 259.5   | 276.1   | 362.6   | 731.8   | 1809.6  | 3110.3  | 3180.2  | 2248.7  | 1600.1  | 941.4   | 385.9   |
| 87.5° | 76.5    | 93.1    | 119.8   | 232.9   | 708.6   | 698.6   | 715.2   | 445.8   | 632.0   | 475.7   | 126.4   |
| 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°    | 6370.3  | 6370.3  | 6370.3 | 6370.3 | 6370.3 | 6370.3 | 6370.3 | 6370.3 | 6370.3 | 6370.3 | 6370.3 |
| 2.5°  | 6400.2  | 6390.3  | 6353.7 | 6337.0 | 6317.1 | 6313.8 | 6330.4 | 6333.7 | 6337.0 | 6340.4 | 6353.7 |
| 5°    | 6460.1  | 6426.9  | 6393.6 | 6373.6 | 6380.3 | 6383.6 | 6416.9 | 6440.2 | 6456.8 | 6470.1 | 6476.8 |
| 7.5°  | 6576.5  | 6549.9  | 6493.4 | 6490.1 | 6500.0 | 6530.0 | 6573.2 | 6626.4 | 6656.4 | 6679.7 | 6686.3 |
| 10°   | 6749.5  | 6699.6  | 6633.1 | 6643.1 | 6663.0 | 6706.3 | 6796.1 | 6839.3 | 6889.2 | 6932.5 | 6922.5 |
| 12.5° | 6925.8  | 6882.6  | 6806.1 | 6812.7 | 6846.0 | 6922.5 | 7009.0 | 7062.2 | 7095.5 | 7128.8 | 7142.1 |
| 15°   | 7155.4  | 7078.9  | 6995.7 | 6995.7 | 7055.6 | 7138.7 | 7178.6 | 7221.9 | 7241.9 | 7278.4 | 7291.8 |
| 17.5° | 7391.5  | 7291.8  | 7182.0 | 7175.3 | 7248.5 | 7288.4 | 7311.7 | 7318.4 | 7325.0 | 7364.9 | 7378.2 |
| 20°   | 7627.7  | 7518.0  | 7361.6 | 7348.3 | 7364.9 | 7358.3 | 7355.0 | 7348.3 | 7358.3 | 7408.2 | 7428.1 |
| 22.5° | 7860.6  | 7734.2  | 7518.0 | 7458.1 | 7411.5 | 7348.3 | 7345.0 | 7341.6 | 7348.3 | 7398.2 | 7431.5 |
| 25°   | 8133.4  | 7980.3  | 7690.9 | 7511.3 | 7355.0 | 7268.5 | 7278.4 | 7281.8 | 7288.4 | 7328.3 | 7381.6 |
| 27.5° | 8429.4  | 8259.8  | 7850.6 | 7494.7 | 7211.9 | 7152.0 | 7135.4 | 7145.4 | 7168.7 | 7231.9 | 7295.1 |
| 30°   | 8725.5  | 8525.9  | 7997.0 | 7428.1 | 7032.3 | 6949.1 | 6895.9 | 6919.2 | 6992.4 | 7055.6 | 7125.4 |
| 32.5° | 8994.9  | 8795.3  | 8113.4 | 7281.8 | 6802.8 | 6673.0 | 6603.2 | 6633.1 | 6706.3 | 6729.6 | 6812.7 |
| 35°   | 9311.0  | 9084.8  | 8163.3 | 7048.9 | 6553.3 | 6353.7 | 6260.5 | 6217.3 | 6253.9 | 6230.6 | 6303.8 |
| 37.5° | 9663.6  | 9427.4  | 8156.6 | 6742.9 | 6260.5 | 6031.0 | 5901.3 | 5738.3 | 5661.8 | 5581.9 | 5631.8 |
| 40°   | 10185.8 | 9846.5  | 8076.8 | 6373.6 | 5897.9 | 5688.4 | 5455.5 | 5179.4 | 5006.4 | 4850.1 | 4860.1 |
| 42.5° | 10897.7 | 10428.7 | 7930.4 | 5967.8 | 5488.8 | 5292.5 | 4976.5 | 4653.8 | 4381.0 | 4121.6 | 4098.3 |
| 45°   | 11958.9 | 11190.4 | 7747.5 | 5535.3 | 5046.3 | 4853.4 | 4510.8 | 4148.2 | 3838.8 | 3506.2 | 3466.2 |
| 47.5° | 13489.1 | 12215.0 | 7574.5 | 5043.0 | 4580.6 | 4404.3 | 4095.0 | 3759.0 | 3393.1 | 3070.4 | 3033.8 |
| 50°   | 15591.4 | 13685.3 | 7414.8 | 4564.0 | 4121.6 | 3988.5 | 3742.3 | 3399.7 | 3030.5 | 2771.0 | 2754.4 |
| 52.5° | 18266.0 | 15684.6 | 7348.3 | 4101.6 | 3692.4 | 3642.5 | 3446.3 | 3126.9 | 2777.7 | 2558.1 | 2541.5 |
| 55°   | 21336.4 | 18076.4 | 7348.3 | 3659.2 | 3316.5 | 3333.2 | 3196.8 | 2900.7 | 2598.0 | 2401.8 | 2381.8 |
| 57.5° | 24469.9 | 20498.1 | 7215.2 | 3250.0 | 2997.2 | 3067.1 | 2980.6 | 2721.1 | 2448.3 | 2245.4 | 2212.1 |
| 60°   | 27357.4 | 22527.3 | 6676.3 | 2877.4 | 2714.4 | 2824.2 | 2767.7 | 2544.8 | 2212.1 | 2042.5 | 2015.9 |
| 62.5° | 29576.2 | 23671.6 | 5638.5 | 2581.4 | 2481.6 | 2608.0 | 2578.1 | 2311.9 | 2168.9 | 2099.0 | 2075.8 |
| 65°   | 30687.2 | 23485.3 | 4311.2 | 2318.6 | 2285.3 | 2481.6 | 2418.4 | 2408.4 | 2295.3 | 2215.5 | 2188.9 |
| 67.5° | 30005.3 | 21881.9 | 3126.9 | 2125.7 | 2172.2 | 2365.2 | 2608.0 | 2647.9 | 2438.3 | 2282.0 | 2255.4 |
| 70°   | 27014.7 | 18981.2 | 2328.6 | 1942.7 | 2029.2 | 2368.5 | 2973.9 | 2771.0 | 2391.8 | 2208.8 | 2178.9 |
| 72.5° | 20551.3 | 14154.4 | 1806.3 | 1749.8 | 1842.9 | 2385.1 | 3136.9 | 2714.4 | 2258.7 | 2441.7 | 2421.7 |
| 75°   | 11752.6 | 7770.8  | 1450.4 | 1513.6 | 1610.0 | 2228.8 | 3053.8 | 2568.1 | 2155.6 | 2242.1 | 2242.1 |
| 77.5° | 4480.8  | 2987.2  | 1197.6 | 1280.7 | 1294.0 | 1946.0 | 2920.7 | 2558.1 | 2052.5 | 2002.6 | 1826.3 |
| 80°   | 1553.5  | 1167.6  | 991.3  | 1017.9 | 1001.3 | 1729.8 | 2800.9 | 2225.4 | 1679.9 | 1503.6 | 1453.7 |
| 82.5° | 635.4   | 582.1   | 785.1  | 751.8  | 711.9  | 1343.9 | 2262.0 | 1819.6 | 1373.9 | 1214.2 | 1200.9 |
| 85°   | 276.1   | 369.2   | 518.9  | 455.7  | 412.5  | 931.4  | 1813.0 | 1540.2 | 1161.0 | 1001.3 | 998.0  |
| 87.5° | 56.6    | 139.7   | 219.6  | 206.2  | 212.9  | 622.1  | 1287.4 | 1094.4 | 821.7  | 615.4  | 482.3  |
| 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)