

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: P944677

Luminaire Tested: **GALN-SB9D-727-U-T3**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P944677  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
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-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 86029 lumens  
Efficiency: N/A  
Efficacy: 130.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - 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

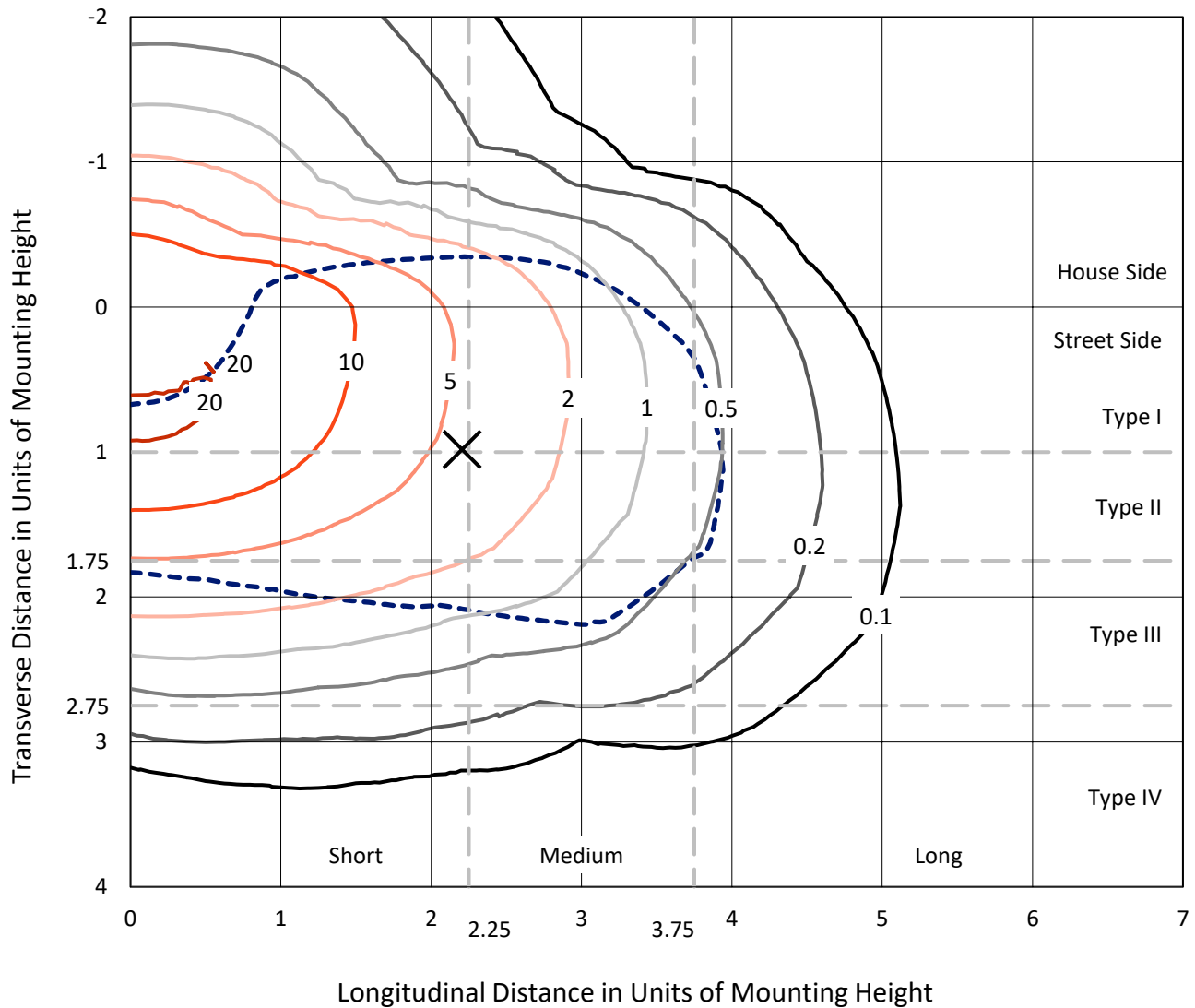


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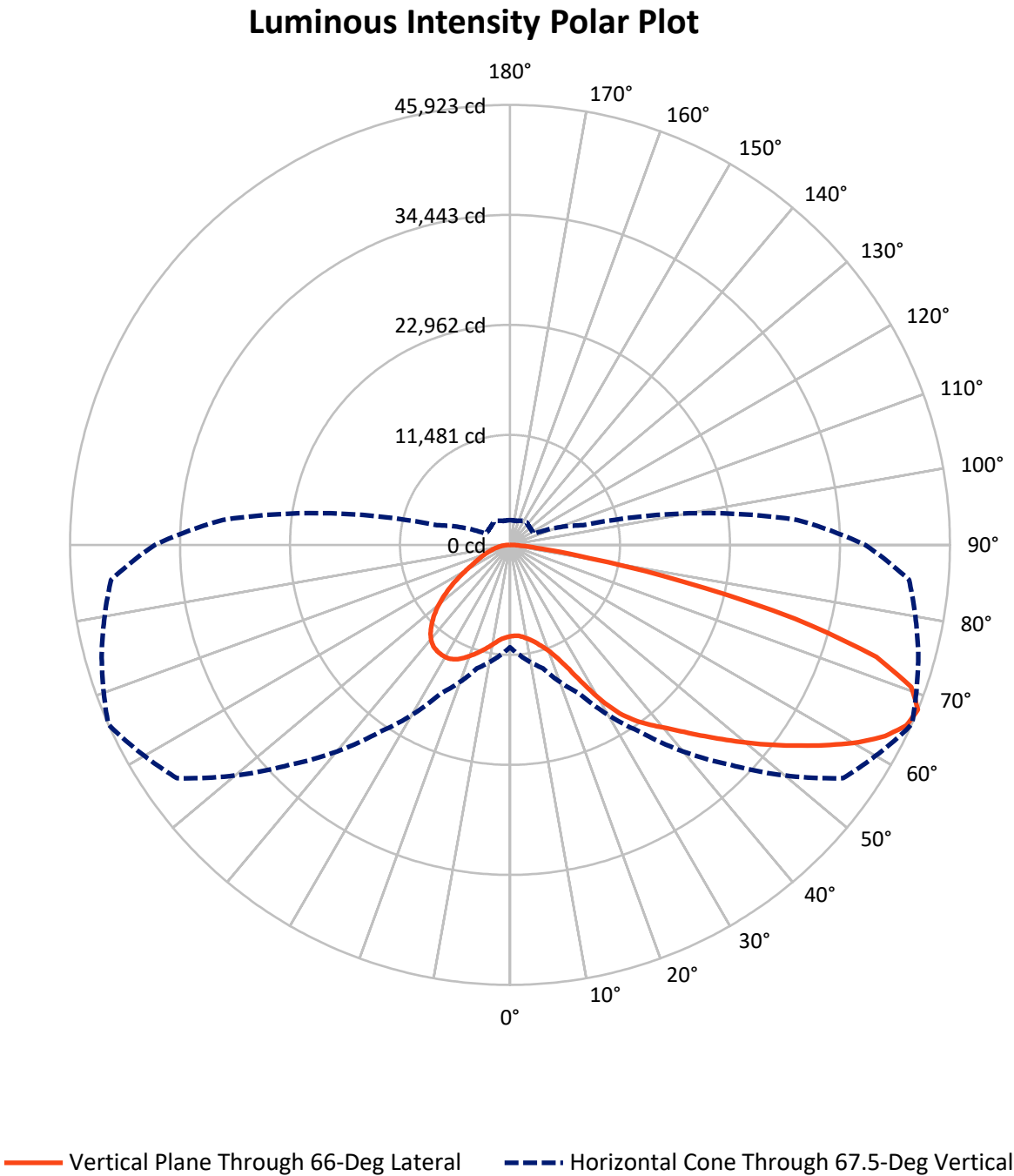
## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.6 fc  
Type III - Short - N/A

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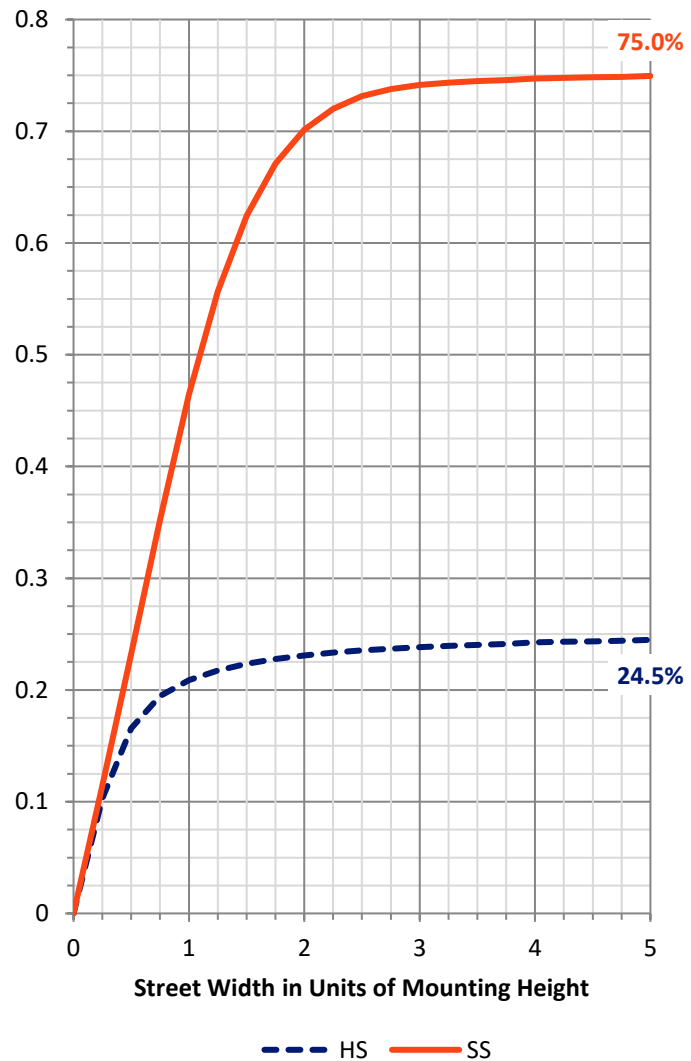
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 21390.9  | 0.0    | 21390.9 |
|                    | % Fixture | 24.9     | 0.0    | 24.9    |
| <b>Street Side</b> | Lumens    | 64638.1  | 0.0    | 64638.1 |
|                    | % Fixture | 75.1     | 0.0    | 75.1    |
| <b>Total</b>       | Lumens    | 86029.0  | 0.0    | 86029.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 946.0   | 1.1       |
| 10°-20°   | 3125.5  | 3.6       |
| 20°-30°   | 6024.3  | 7.0       |
| 30°-40°   | 10562.9 | 12.3      |
| 40°-50°   | 15703.5 | 18.3      |
| 50°-60°   | 19905.7 | 23.1      |
| 60°-70°   | 19477.2 | 22.6      |
| 70°-80°   | 9290.8  | 10.8      |
| 80°-90°   | 992.9   | 1.2       |
| 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°    | 86029.0 | 100.0     |
| 0°-180°   | 86029.0 | 100.0     |

**Coefficient of Utilization**



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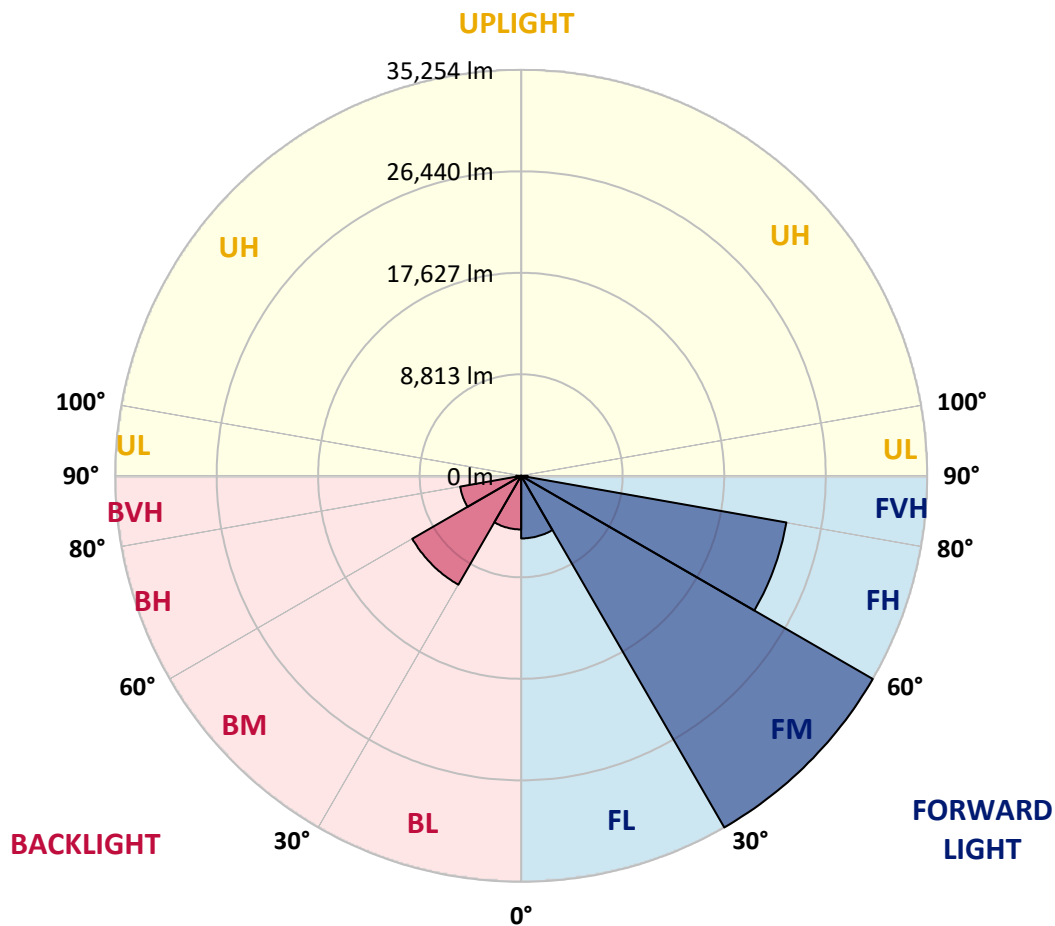
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|---------|-----------|-------------------------|------|--------|
|      |             |         |           | B                       | U    | G      |
| FL   | (0°-30°)    | 5436.2  | 6.3       |                         |      |        |
| FM   | (30°-60°)   | 35254.0 | 41.0      |                         |      |        |
| FH   | (60°-80°)   | 23385.0 | 27.2      |                         |      | G5     |
| FVH  | (80°-90°)   | 563.0   | 0.7       |                         |      | G4/750 |
| BL   | (0°-30°)    | 4659.7  | 5.4       | B4/5000                 |      |        |
| BM   | (30°-60°)   | 10918.1 | 12.7      | B5                      |      |        |
| BH   | (60°-80°)   | 5383.0  | 6.3       | B5                      |      | G5     |
| BVH  | (80°-90°)   | 430.0   | 0.5       |                         |      | G3/500 |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |        |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |        |

**BUG Rating: B5-U0-G5**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 66°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 9541.8  | 9541.8  | 9541.8  | 9541.8  | 9541.8  | 9541.8  | 9541.8  | 9541.8  | 9541.8  | 9541.8  | 9541.8  |
| 2.5°  | 9442.3  | 9496.6  | 9483.0  | 9460.4  | 9455.9  | 9464.9  | 9478.5  | 9492.0  | 9487.5  | 9510.1  | 9546.3  |
| 5°    | 9415.2  | 9469.4  | 9464.9  | 9464.9  | 9483.0  | 9519.2  | 9541.8  | 9564.4  | 9541.8  | 9568.9  | 9618.6  |
| 7.5°  | 9433.3  | 9474.0  | 9492.0  | 9510.1  | 9555.3  | 9623.1  | 9677.4  | 9727.1  | 9700.0  | 9731.6  | 9794.9  |
| 10°   | 9663.8  | 9695.4  | 9713.5  | 9713.5  | 9745.2  | 9822.0  | 9876.2  | 9966.6  | 9944.0  | 9993.8  | 10075.1 |
| 12.5° | 10084.2 | 10115.8 | 10115.8 | 10097.7 | 10120.3 | 10170.0 | 10188.1 | 10287.6 | 10246.9 | 10328.2 | 10409.6 |
| 15°   | 10599.4 | 10662.7 | 10613.0 | 10581.4 | 10590.4 | 10640.1 | 10635.6 | 10712.4 | 10671.8 | 10739.6 | 10811.9 |
| 17.5° | 11169.0 | 11250.3 | 11169.0 | 11164.4 | 11146.4 | 11200.6 | 11205.1 | 11272.9 | 11200.6 | 11250.3 | 11300.0 |
| 20°   | 11842.4 | 11955.4 | 11887.6 | 11910.2 | 11869.6 | 11892.2 | 11914.8 | 12014.2 | 11901.2 | 11937.4 | 11923.8 |
| 22.5° | 12791.6 | 12927.2 | 12854.9 | 12940.8 | 12913.7 | 12895.6 | 12891.1 | 13067.4 | 12891.1 | 12904.6 | 12773.6 |
| 25°   | 14174.8 | 14337.5 | 14210.9 | 14328.4 | 14328.4 | 14387.2 | 14455.0 | 14681.0 | 14387.2 | 14301.3 | 13962.3 |
| 27.5° | 16217.8 | 16380.5 | 16131.9 | 16204.3 | 16181.7 | 16326.3 | 16254.0 | 16814.5 | 16498.1 | 16357.9 | 15675.4 |
| 30°   | 18676.7 | 18966.0 | 18495.9 | 18477.8 | 18455.2 | 18685.7 | 18789.7 | 19160.3 | 18839.4 | 18699.3 | 17876.7 |
| 32.5° | 21334.5 | 21637.3 | 21076.8 | 20914.1 | 20828.2 | 20968.4 | 20882.5 | 21180.8 | 20959.3 | 20742.4 | 19725.3 |
| 35°   | 24145.9 | 24444.2 | 23910.9 | 23594.5 | 23251.0 | 22957.2 | 22649.8 | 22726.6 | 22518.7 | 22188.8 | 21135.6 |
| 37.5° | 26803.7 | 27350.6 | 26785.6 | 26446.6 | 25813.8 | 25239.8 | 24381.0 | 24023.9 | 23829.5 | 23526.7 | 22464.5 |
| 40°   | 29511.2 | 29823.1 | 29393.7 | 29104.4 | 28417.3 | 27517.9 | 26143.8 | 25388.9 | 25126.8 | 24833.0 | 23933.5 |
| 42.5° | 31504.5 | 31802.8 | 31572.3 | 31373.4 | 30835.5 | 29791.4 | 28015.1 | 27070.4 | 26690.7 | 26360.7 | 25596.8 |
| 45°   | 33086.5 | 33308.0 | 33163.4 | 33235.7 | 33005.2 | 31992.7 | 29954.1 | 28873.9 | 28480.6 | 28078.3 | 27477.2 |
| 47.5° | 33723.8 | 33958.9 | 34189.4 | 34618.8 | 35012.0 | 34266.2 | 32037.9 | 30826.5 | 30410.7 | 29999.3 | 29407.2 |
| 50°   | 33651.5 | 33891.1 | 34560.0 | 35473.1 | 36693.5 | 36444.9 | 34234.6 | 32905.7 | 32521.5 | 32051.4 | 31504.5 |
| 52.5° | 33073.0 | 33344.2 | 34203.0 | 35721.7 | 37665.3 | 38076.6 | 36472.0 | 35052.7 | 34691.1 | 34130.6 | 33583.7 |
| 55°   | 31554.2 | 31716.9 | 33005.2 | 35156.7 | 37895.8 | 39215.7 | 38664.2 | 37339.8 | 36978.2 | 36196.3 | 35599.6 |
| 57.5° | 28738.3 | 28973.3 | 30849.1 | 33633.4 | 37317.2 | 39988.6 | 40589.7 | 39744.5 | 39396.5 | 38271.0 | 37647.2 |
| 60°   | 25063.5 | 25438.6 | 27585.7 | 31075.1 | 35843.7 | 39984.1 | 42339.0 | 42108.5 | 41819.2 | 40314.0 | 39663.1 |
| 62.5° | 20905.1 | 21339.0 | 23404.6 | 27459.1 | 33267.3 | 38849.5 | 43432.8 | 44088.2 | 43939.1 | 42198.9 | 41367.2 |
| 65°   | 16055.1 | 16353.4 | 18410.0 | 22780.9 | 29258.1 | 36413.2 | 43559.4 | 45439.7 | 45466.8 | 43631.7 | 42257.6 |
| 67.5° | 10689.8 | 11548.6 | 13334.0 | 17094.7 | 23888.3 | 32431.1 | 42447.5 | 45661.2 | 45923.4 | 44124.4 | 41810.1 |
| 70°   | 5216.1  | 6346.1  | 8095.3  | 11110.2 | 17094.7 | 26324.6 | 39541.1 | 43844.2 | 44427.2 | 42687.0 | 39143.3 |
| 72.5° | 2165.1  | 2531.2  | 3484.9  | 5482.8  | 9813.0  | 17763.7 | 33701.2 | 38917.3 | 39997.6 | 37823.5 | 32910.2 |
| 75°   | 1460.0  | 1582.0  | 1993.3  | 2811.4  | 4470.3  | 8759.8  | 24304.1 | 29018.5 | 30758.7 | 28566.5 | 23350.4 |
| 77.5° | 1125.5  | 1202.3  | 1450.9  | 1966.2  | 2657.8  | 3313.2  | 13008.6 | 17487.9 | 18387.4 | 17022.4 | 12149.8 |
| 80°   | 885.9   | 944.7   | 1084.8  | 1432.8  | 1884.8  | 1771.8  | 4434.1  | 7923.6  | 8443.4  | 7082.9  | 3905.3  |
| 82.5° | 768.4   | 791.0   | 777.4   | 971.8   | 1252.0  | 1035.1  | 1455.4  | 2924.5  | 3227.3  | 2341.4  | 1274.6  |
| 85°   | 556.0   | 619.2   | 646.4   | 601.2   | 664.4   | 524.3   | 596.6   | 1035.1  | 1139.0  | 1017.0  | 718.7   |
| 87.5° | 226.0   | 334.5   | 411.3   | 388.7   | 244.1   | 149.2   | 185.3   | 302.8   | 348.0   | 379.7   | 235.0   |
| 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°    | 9541.8  | 9541.8  | 9541.8  | 9541.8  | 9541.8  | 9541.8  | 9541.8  | 9541.8  | 9541.8  | 9541.8  | 9541.8  |
| 2.5°  | 9550.8  | 9582.4  | 9605.0  | 9632.2  | 9650.2  | 9677.4  | 9731.6  | 9763.2  | 9767.8  | 9790.4  | 9785.8  |
| 5°    | 9636.7  | 9681.9  | 9731.6  | 9803.9  | 9885.3  | 9953.1  | 10057.0 | 10129.4 | 10156.5 | 10179.1 | 10174.6 |
| 7.5°  | 9822.0  | 9885.3  | 9975.7  | 10102.2 | 10219.8 | 10310.2 | 10436.7 | 10522.6 | 10608.5 | 10640.1 | 10644.6 |
| 10°   | 10097.7 | 10188.1 | 10319.2 | 10491.0 | 10617.5 | 10735.0 | 10866.1 | 10938.4 | 11024.3 | 11060.5 | 11078.6 |
| 12.5° | 10441.2 | 10536.2 | 10707.9 | 10947.5 | 11065.0 | 11146.4 | 11191.6 | 11173.5 | 11191.6 | 11223.2 | 11232.2 |
| 15°   | 10834.5 | 10938.4 | 11132.8 | 11390.4 | 11471.8 | 11399.5 | 11300.0 | 11209.6 | 11196.1 | 11205.1 | 11236.8 |
| 17.5° | 11300.0 | 11376.9 | 11602.9 | 11819.8 | 11761.1 | 11462.8 | 11245.8 | 11101.2 | 11028.8 | 11006.2 | 11037.9 |
| 20°   | 11950.9 | 11950.9 | 12136.2 | 12271.8 | 11878.6 | 11372.4 | 11033.4 | 10798.3 | 10649.2 | 10585.9 | 10572.3 |
| 22.5° | 12741.9 | 12669.6 | 12787.1 | 12692.2 | 11856.0 | 11119.2 | 10649.2 | 10242.4 | 10016.4 | 9926.0  | 9912.4  |
| 25°   | 13745.4 | 13659.5 | 13627.8 | 13040.2 | 11693.3 | 10717.0 | 9953.1  | 9460.4  | 9261.5  | 9211.8  | 9220.8  |
| 27.5° | 15259.6 | 15042.6 | 14631.3 | 13230.1 | 11395.0 | 10084.2 | 9139.5  | 8683.0  | 8569.9  | 8574.5  | 8588.0  |
| 30°   | 17275.5 | 16841.6 | 15833.6 | 13261.7 | 10906.8 | 9189.2  | 8307.8  | 7982.3  | 7928.1  | 7950.7  | 8027.5  |
| 32.5° | 19142.3 | 18730.9 | 17063.1 | 13117.1 | 10156.5 | 8312.3  | 7562.0  | 7345.0  | 7263.7  | 7290.8  | 7326.9  |
| 35°   | 20606.8 | 20493.8 | 18202.1 | 12913.7 | 9234.4  | 7489.7  | 6893.0  | 6707.7  | 6549.5  | 6513.3  | 6540.5  |
| 37.5° | 21989.9 | 21944.7 | 19056.4 | 12628.9 | 8321.3  | 6906.6  | 6355.1  | 6111.1  | 5880.5  | 5754.0  | 5758.5  |
| 40°   | 23508.6 | 23463.4 | 19616.9 | 12190.5 | 7512.3  | 6400.3  | 5871.5  | 5550.6  | 5265.8  | 5035.3  | 5057.9  |
| 42.5° | 25217.2 | 24950.5 | 19883.5 | 11562.2 | 6825.2  | 5970.9  | 5478.3  | 5044.3  | 4669.2  | 4456.7  | 4470.3  |
| 45°   | 27083.9 | 26482.8 | 19879.0 | 10762.2 | 6246.7  | 5577.7  | 5057.9  | 4443.2  | 4095.1  | 3896.3  | 3887.2  |
| 47.5° | 29063.7 | 27947.3 | 19634.9 | 9876.2  | 5686.2  | 5143.8  | 4407.0  | 3936.9  | 3706.4  | 3584.4  | 3557.3  |
| 50°   | 31106.7 | 29316.8 | 19219.1 | 8859.2  | 5112.1  | 4651.1  | 4000.2  | 3679.3  | 3503.0  | 3390.0  | 3349.3  |
| 52.5° | 33027.8 | 30559.8 | 18717.4 | 7706.6  | 4529.1  | 4172.0  | 3819.4  | 3570.8  | 3385.5  | 3258.9  | 3204.7  |
| 55°   | 34813.2 | 31631.1 | 18007.7 | 6526.9  | 4054.5  | 3851.1  | 3733.5  | 3525.6  | 3313.2  | 3164.0  | 3105.3  |
| 57.5° | 36399.7 | 32327.2 | 16782.8 | 5419.5  | 3715.5  | 3629.6  | 3643.1  | 3448.8  | 3204.7  | 3078.1  | 2996.8  |
| 60°   | 37719.5 | 32837.9 | 14970.3 | 4393.5  | 3439.7  | 3412.6  | 3503.0  | 3304.1  | 3019.4  | 2874.7  | 2811.4  |
| 62.5° | 38510.5 | 32828.9 | 12746.4 | 3597.9  | 3204.7  | 3213.7  | 3317.7  | 3123.3  | 2834.0  | 2698.4  | 2657.8  |
| 65°   | 38442.7 | 32024.3 | 10305.6 | 3078.1  | 2978.7  | 2987.7  | 3123.3  | 2924.5  | 2680.4  | 2599.0  | 2594.5  |
| 67.5° | 37082.2 | 30062.6 | 7905.5  | 2739.1  | 2730.1  | 2770.8  | 2929.0  | 2788.8  | 2585.4  | 2576.4  | 2590.0  |
| 70°   | 33398.4 | 25990.1 | 5695.2  | 2467.9  | 2472.4  | 2531.2  | 2739.1  | 2703.0  | 2535.7  | 2553.8  | 2549.3  |
| 72.5° | 26781.1 | 19815.7 | 3823.9  | 2183.2  | 2187.7  | 2282.6  | 2558.3  | 2635.2  | 2486.0  | 2725.6  | 2761.7  |
| 75°   | 17836.0 | 12357.7 | 2458.9  | 1880.3  | 1884.8  | 2006.9  | 2400.1  | 2504.1  | 2350.4  | 2716.5  | 2739.1  |
| 77.5° | 8569.9  | 5555.1  | 1780.9  | 1582.0  | 1582.0  | 1695.0  | 2074.7  | 2241.9  | 2002.4  | 2110.8  | 1934.6  |
| 80°   | 2960.6  | 2088.2  | 1401.2  | 1274.6  | 1247.5  | 1324.4  | 1749.2  | 1943.6  | 1726.6  | 1591.0  | 1491.6  |
| 82.5° | 1166.2  | 1084.8  | 1125.5  | 989.9   | 899.5   | 949.2   | 1360.5  | 1604.6  | 1270.1  | 1148.1  | 1143.6  |
| 85°   | 669.0   | 705.1   | 795.5   | 655.4   | 519.8   | 583.1   | 998.9   | 1152.6  | 958.2   | 845.2   | 863.3   |
| 87.5° | 180.8   | 248.6   | 366.1   | 339.0   | 235.0   | 248.6   | 474.6   | 637.3   | 551.4   | 424.9   | 438.4   |
| 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)