

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: P942465

Luminaire Tested: **GALN-SB6C-727-U-T2**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P942465  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB6C-727-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 41738 lumens  
Efficiency: N/A  
Efficacy: 138.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G4

Input Watts (W): 300.9  
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

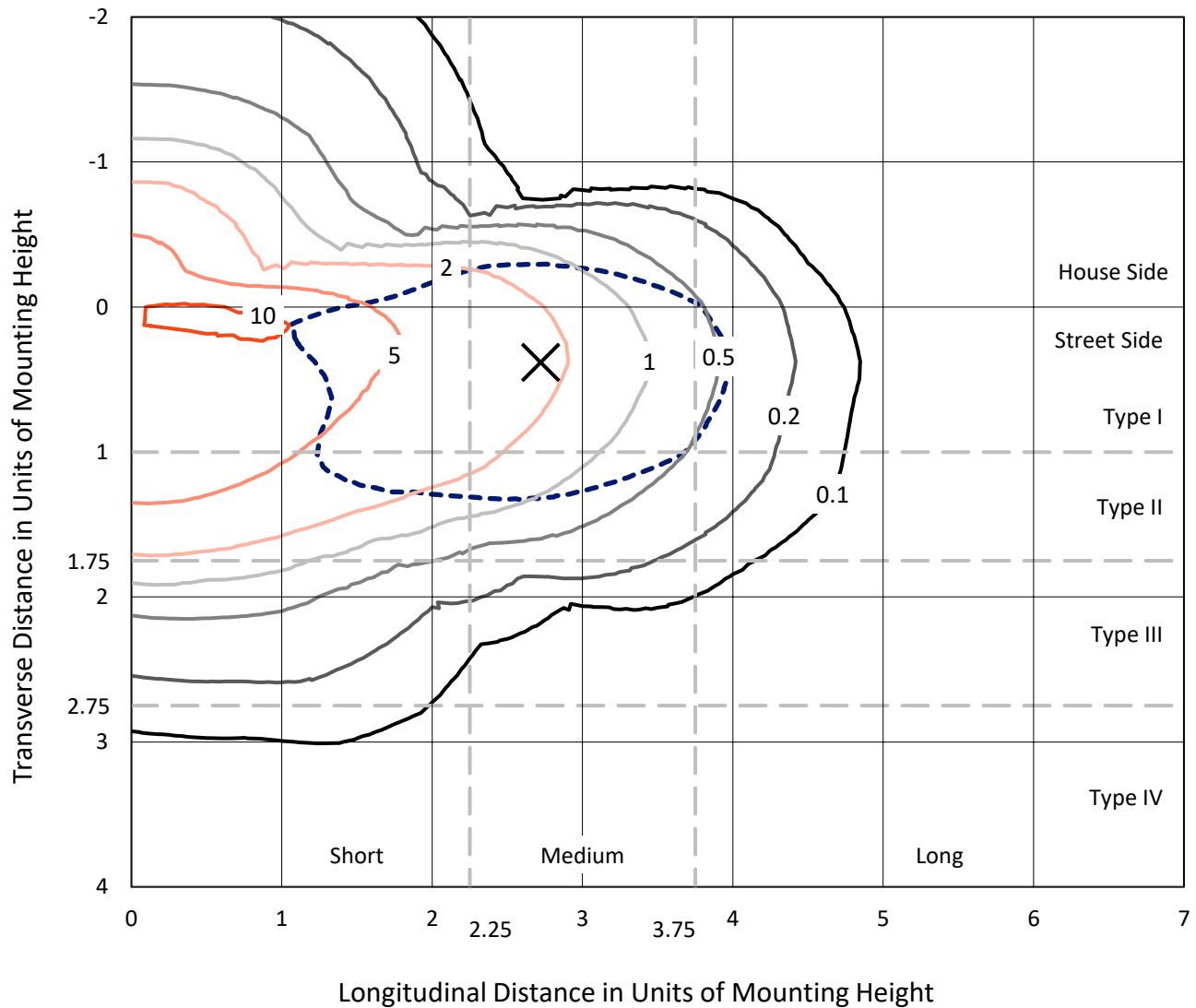


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
--- 1/2 Max cd

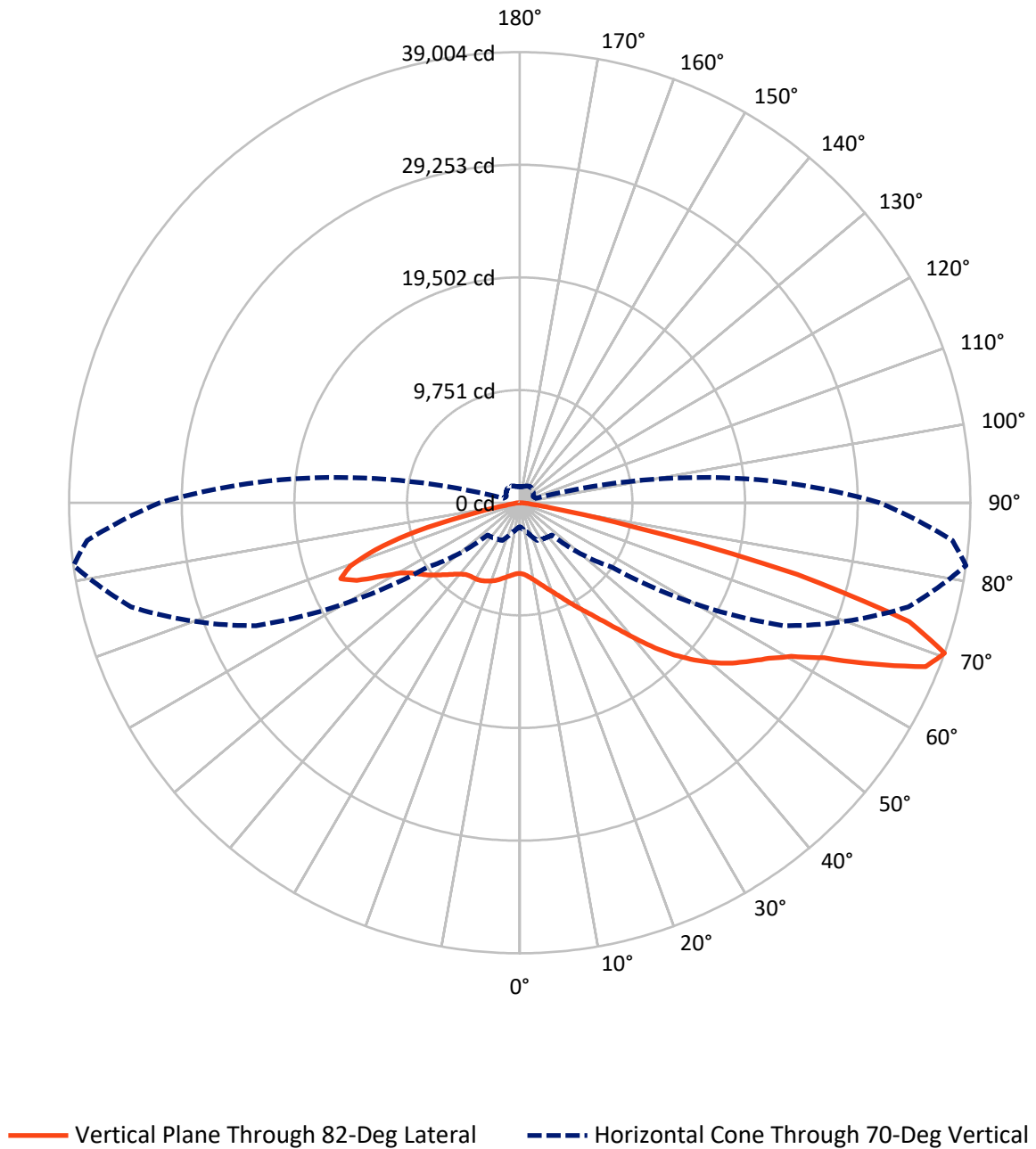


Based on 25 foot mounting height. Maximum calculated value = 11.1 fc  
Type II - Medium - N/A

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## Luminous Intensity Polar Plot



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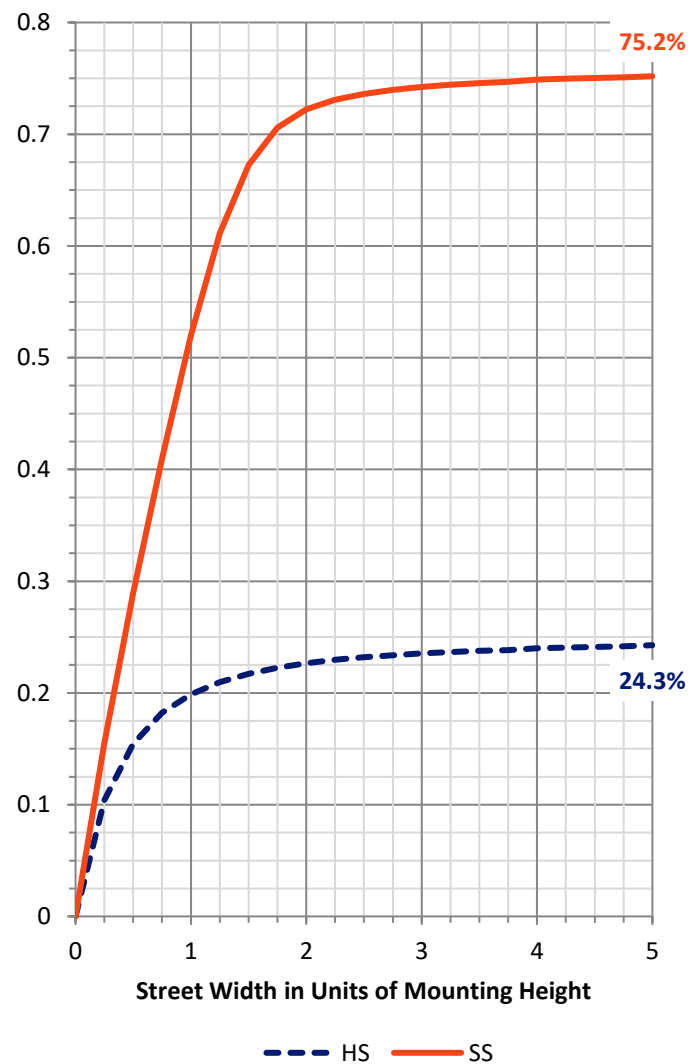
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 10289.4  | 0.0    | 10289.4 |
|                    | % Fixture | 24.7     | 0.0    | 24.7    |
| <b>Street Side</b> | Lumens    | 31448.6  | 0.0    | 31448.6 |
|                    | % Fixture | 75.3     | 0.0    | 75.3    |
| <b>Total</b>       | Lumens    | 41738.0  | 0.0    | 41738.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 577.8   | 1.4       |
| 10°-20°   | 1660.0  | 4.0       |
| 20°-30°   | 2777.0  | 6.7       |
| 30°-40°   | 4338.3  | 10.4      |
| 40°-50°   | 6909.3  | 16.6      |
| 50°-60°   | 9615.1  | 23.0      |
| 60°-70°   | 10057.9 | 24.1      |
| 70°-80°   | 5256.8  | 12.6      |
| 80°-90°   | 545.9   | 1.3       |
| 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°    | 41738.0 | 100.0     |
| 0°-180°   | 41738.0 | 100.0     |

**Coefficient of Utilization**



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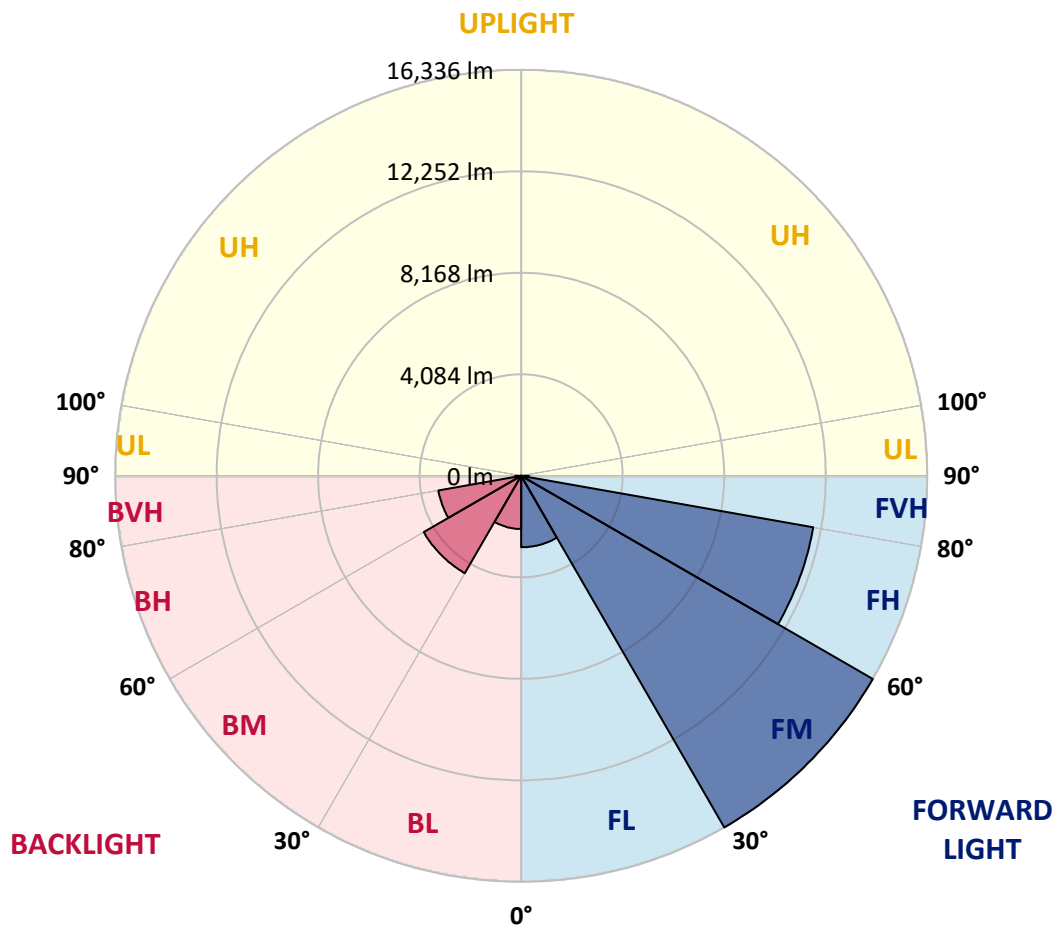
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2874.1  | 6.9       |                         |      |          |
| FM   | (30°-60°)   | 16335.8 | 39.1      |                         |      |          |
| FH   | (60°-80°)   | 11933.0 | 28.6      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 305.6   | 0.7       |                         |      | G3/500   |
| BL   | (0°-30°)    | 2140.6  | 5.1       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 4526.9  | 10.8      | B3/5000                 |      |          |
| BH   | (60°-80°)   | 3381.6  | 8.1       | B4/5000                 |      | G4/5000  |
| BVH  | (80°-90°)   | 240.3   | 0.6       |                         |      | G3/500   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B4-U0-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 82°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6119.3  | 6119.3  | 6119.3  | 6119.3  | 6119.3  | 6119.3  | 6119.3  | 6119.3  | 6119.3  | 6119.3  | 6119.3  |
| 2.5°  | 6265.5  | 6300.9  | 6289.8  | 6278.8  | 6278.8  | 6263.3  | 6261.1  | 6238.9  | 6221.2  | 6192.4  | 6185.8  |
| 5°    | 6345.2  | 6382.9  | 6378.4  | 6387.3  | 6416.1  | 6422.7  | 6429.4  | 6416.1  | 6380.7  | 6345.2  | 6329.7  |
| 7.5°  | 6274.3  | 6316.4  | 6329.7  | 6382.9  | 6471.5  | 6551.2  | 6611.0  | 6635.3  | 6602.1  | 6551.2  | 6526.8  |
| 10°   | 6035.2  | 6081.7  | 6128.2  | 6254.4  | 6411.7  | 6599.9  | 6759.4  | 6854.6  | 6848.0  | 6799.2  | 6757.2  |
| 12.5° | 5550.1  | 5598.8  | 5698.5  | 5944.3  | 6232.3  | 6564.5  | 6861.2  | 7060.6  | 7129.2  | 7093.8  | 7020.7  |
| 15°   | 5162.5  | 5204.6  | 5279.9  | 5532.4  | 5906.7  | 6411.7  | 6898.9  | 7286.5  | 7461.4  | 7441.5  | 7352.9  |
| 17.5° | 5151.5  | 5169.2  | 5215.7  | 5335.3  | 5623.2  | 6172.5  | 6859.0  | 7508.0  | 7842.4  | 7840.2  | 7729.4  |
| 20°   | 5346.4  | 5353.0  | 5379.6  | 5404.0  | 5567.8  | 5990.9  | 6757.2  | 7691.8  | 8269.8  | 8269.8  | 8150.2  |
| 22.5° | 5616.6  | 5612.1  | 5638.7  | 5616.6  | 5696.3  | 5975.4  | 6692.9  | 7853.5  | 8746.0  | 8781.4  | 8630.8  |
| 25°   | 6021.9  | 5999.7  | 5993.1  | 5942.1  | 5957.6  | 6119.3  | 6763.8  | 8037.3  | 9310.7  | 9383.8  | 9195.6  |
| 27.5° | 6562.3  | 6526.8  | 6502.5  | 6385.1  | 6345.2  | 6416.1  | 6980.8  | 8258.7  | 9939.7  | 10066.0 | 9826.8  |
| 30°   | 7266.5  | 7202.3  | 7166.9  | 6963.1  | 6819.2  | 6830.2  | 7308.6  | 8553.3  | 10597.5 | 10801.3 | 10497.8 |
| 32.5° | 8227.7  | 8128.1  | 8032.8  | 7698.4  | 7434.9  | 7348.5  | 7731.6  | 8960.8  | 11310.7 | 11636.2 | 11246.4 |
| 35°   | 9304.1  | 9224.4  | 9122.5  | 8606.5  | 8201.2  | 8001.8  | 8303.0  | 9530.0  | 12145.6 | 12661.6 | 12154.5 |
| 37.5° | 10340.6 | 10271.9 | 10320.7 | 9625.2  | 9102.6  | 8812.4  | 9051.6  | 10294.1 | 13175.5 | 13937.3 | 13292.8 |
| 40°   | 11412.5 | 11359.4 | 11366.0 | 10701.6 | 10092.5 | 9767.0  | 9959.7  | 11253.1 | 14355.9 | 15454.4 | 14661.5 |
| 42.5° | 12577.5 | 12537.6 | 12404.7 | 11815.6 | 11131.3 | 10827.8 | 11005.0 | 12360.4 | 15622.7 | 17181.9 | 16163.1 |
| 45°   | 13882.0 | 13857.6 | 13733.6 | 13058.1 | 12274.1 | 11933.0 | 12172.2 | 13583.0 | 16896.2 | 18807.5 | 17671.4 |
| 47.5° | 15009.3 | 15029.2 | 15013.7 | 14444.5 | 13631.7 | 13131.2 | 13416.9 | 14858.7 | 18081.1 | 20335.7 | 19117.6 |
| 50°   | 15551.9 | 15656.0 | 15808.8 | 15631.6 | 15126.6 | 14617.3 | 14672.6 | 16090.0 | 19210.6 | 21768.6 | 20504.0 |
| 52.5° | 15268.4 | 15465.5 | 15881.9 | 16165.4 | 16360.2 | 16253.9 | 16105.6 | 17312.6 | 20273.7 | 23062.0 | 21815.1 |
| 55°   | 14212.0 | 14488.8 | 15179.8 | 15864.1 | 16858.6 | 17631.5 | 17826.4 | 18668.0 | 21310.2 | 24200.4 | 23055.4 |
| 57.5° | 12287.3 | 12736.9 | 13357.1 | 14741.3 | 16415.6 | 18298.1 | 19833.0 | 20548.3 | 22408.7 | 25416.3 | 24353.2 |
| 60°   | 8987.4  | 9589.8  | 10360.5 | 12420.2 | 14865.3 | 17941.6 | 21540.5 | 23436.3 | 23970.1 | 26991.0 | 26043.1 |
| 62.5° | 5751.7  | 6123.7  | 6832.5  | 8772.6  | 11583.1 | 16114.4 | 22063.2 | 27046.3 | 26616.7 | 29573.4 | 28576.7 |
| 65°   | 3937.8  | 4177.0  | 4825.9  | 5915.6  | 7488.0  | 11995.0 | 20663.5 | 29752.7 | 30820.3 | 33666.2 | 32908.7 |
| 67.5° | 2861.4  | 3043.0  | 3596.7  | 4551.3  | 4879.1  | 7098.2  | 16034.7 | 29628.7 | 34906.4 | 37883.0 | 36704.8 |
| 70°   | 2086.3  | 2214.7  | 2679.8  | 3596.7  | 3754.0  | 3948.9  | 9713.8  | 25186.0 | 34817.8 | 39003.7 | 37592.9 |
| 72.5° | 1545.9  | 1634.5  | 1946.8  | 2790.6  | 3038.6  | 2666.5  | 4808.2  | 18304.8 | 29918.9 | 35278.5 | 34146.8 |
| 75°   | 1118.4  | 1184.9  | 1415.2  | 2135.0  | 2431.8  | 2030.9  | 2398.6  | 10697.2 | 20869.4 | 24816.1 | 25015.4 |
| 77.5° | 854.9   | 905.8   | 1056.4  | 1563.6  | 1946.8  | 1523.7  | 1488.3  | 4921.1  | 9895.4  | 9944.2  | 10502.3 |
| 80°   | 686.6   | 719.8   | 801.7   | 1100.7  | 1492.7  | 1140.6  | 970.1   | 1986.6  | 3127.2  | 2646.6  | 2777.3  |
| 82.5° | 505.0   | 560.3   | 677.7   | 772.9   | 1067.5  | 786.2   | 591.3   | 1003.3  | 1189.3  | 1023.2  | 1032.1  |
| 85°   | 287.9   | 325.6   | 409.7   | 553.7   | 682.1   | 480.6   | 338.9   | 445.2   | 553.7   | 454.0   | 405.3   |
| 87.5° | 101.9   | 132.9   | 144.0   | 217.0   | 296.8   | 199.3   | 130.7   | 128.5   | 181.6   | 135.1   | 113.0   |
| 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°    | 6119.3  | 6119.3  | 6119.3 | 6119.3 | 6119.3 | 6119.3 | 6119.3 | 6119.3 | 6119.3 | 6119.3 | 6119.3 |
| 2.5°  | 6163.6  | 6152.5  | 6108.2 | 6048.4 | 5986.4 | 5926.6 | 5906.7 | 5864.6 | 5835.8 | 5820.3 | 5838.0 |
| 5°    | 6287.6  | 6252.2  | 6148.1 | 6015.2 | 5875.7 | 5725.1 | 5618.8 | 5521.3 | 5450.5 | 5384.0 | 5410.6 |
| 7.5°  | 6464.8  | 6402.8  | 6223.4 | 5990.9 | 5742.8 | 5492.5 | 5306.5 | 5164.8 | 5069.5 | 5007.5 | 5020.8 |
| 10°   | 6670.8  | 6575.5  | 6300.9 | 5953.2 | 5570.1 | 5211.3 | 4992.0 | 4870.2 | 4810.4 | 4777.2 | 4786.0 |
| 12.5° | 6907.8  | 6772.7  | 6380.7 | 5866.8 | 5306.5 | 4896.8 | 4746.2 | 4710.7 | 4713.0 | 4715.2 | 4719.6 |
| 15°   | 7200.1  | 7011.9  | 6444.9 | 5678.6 | 4963.2 | 4655.4 | 4628.8 | 4686.4 | 4746.2 | 4775.0 | 4772.8 |
| 17.5° | 7530.1  | 7264.3  | 6456.0 | 5368.5 | 4626.6 | 4500.3 | 4584.5 | 4708.5 | 4799.3 | 4839.2 | 4848.1 |
| 20°   | 7884.5  | 7521.2  | 6376.2 | 4930.0 | 4349.7 | 4374.1 | 4524.7 | 4684.2 | 4783.8 | 4834.8 | 4848.1 |
| 22.5° | 8289.8  | 7795.9  | 6185.8 | 4469.3 | 4123.8 | 4236.8 | 4414.0 | 4569.0 | 4673.1 | 4724.0 | 4737.3 |
| 25°   | 8752.6  | 8103.7  | 5886.8 | 4081.8 | 3928.9 | 4081.8 | 4258.9 | 4387.4 | 4471.5 | 4518.1 | 4531.3 |
| 27.5° | 9266.5  | 8424.9  | 5488.1 | 3773.9 | 3758.4 | 3922.3 | 4068.5 | 4168.1 | 4212.4 | 4247.9 | 4261.2 |
| 30°   | 9782.5  | 8717.2  | 5005.3 | 3541.4 | 3610.0 | 3765.0 | 3869.1 | 3913.4 | 3926.7 | 3933.4 | 3948.9 |
| 32.5° | 10340.6 | 8969.7  | 4498.1 | 3348.7 | 3468.3 | 3612.2 | 3674.2 | 3694.2 | 3632.2 | 3590.1 | 3603.4 |
| 35°   | 11016.1 | 9239.9  | 4002.0 | 3195.9 | 3328.7 | 3452.8 | 3472.7 | 3455.0 | 3381.9 | 3295.5 | 3300.0 |
| 37.5° | 11851.0 | 9576.5  | 3605.6 | 3087.3 | 3198.1 | 3280.0 | 3255.7 | 3251.2 | 3257.9 | 3156.0 | 3162.6 |
| 40°   | 12874.3 | 10015.0 | 3315.5 | 3003.2 | 3091.8 | 3109.5 | 3040.8 | 3078.5 | 3111.7 | 2956.7 | 2961.1 |
| 42.5° | 14010.4 | 10544.4 | 3131.6 | 2945.6 | 3003.2 | 2961.1 | 2854.8 | 2896.9 | 2892.4 | 2688.7 | 2686.5 |
| 45°   | 15168.7 | 11120.2 | 3067.4 | 2903.5 | 2921.2 | 2837.1 | 2719.7 | 2730.8 | 2637.7 | 2453.9 | 2460.6 |
| 47.5° | 16320.4 | 11738.1 | 3107.3 | 2868.1 | 2819.4 | 2724.1 | 2633.3 | 2584.6 | 2447.3 | 2310.0 | 2310.0 |
| 50°   | 17449.9 | 12387.0 | 3253.4 | 2797.2 | 2679.8 | 2624.5 | 2558.0 | 2471.6 | 2325.5 | 2208.1 | 2199.2 |
| 52.5° | 18497.5 | 13040.4 | 3417.3 | 2679.8 | 2504.9 | 2538.1 | 2496.0 | 2396.3 | 2252.4 | 2132.8 | 2135.0 |
| 55°   | 19489.7 | 13693.7 | 3481.6 | 2518.2 | 2341.0 | 2462.8 | 2438.4 | 2254.6 | 2081.9 | 1984.4 | 1975.5 |
| 57.5° | 20570.5 | 14479.9 | 3410.7 | 2312.2 | 2208.1 | 2376.4 | 2283.4 | 2079.6 | 1980.0 | 1906.9 | 1900.2 |
| 60°   | 22067.6 | 15713.5 | 3257.9 | 2057.5 | 2081.9 | 2248.0 | 2088.5 | 2004.3 | 1895.8 | 1813.9 | 1809.4 |
| 62.5° | 24554.8 | 18014.7 | 3012.0 | 1805.0 | 1933.5 | 2057.5 | 1995.5 | 1911.3 | 1800.6 | 1720.8 | 1720.8 |
| 65°   | 28231.2 | 21212.7 | 2549.2 | 1607.9 | 1767.4 | 1871.5 | 1895.8 | 1811.7 | 1696.5 | 1612.3 | 1616.8 |
| 67.5° | 31331.9 | 23219.3 | 1929.0 | 1444.0 | 1596.8 | 1720.8 | 1789.5 | 1707.6 | 1585.8 | 1503.8 | 1506.0 |
| 70°   | 31161.3 | 21762.0 | 1472.8 | 1282.3 | 1446.2 | 1572.5 | 1661.1 | 1596.8 | 1466.2 | 1388.6 | 1395.3 |
| 72.5° | 27677.5 | 18205.1 | 1191.5 | 1118.4 | 1293.4 | 1417.4 | 1523.7 | 1475.0 | 1342.1 | 1266.8 | 1266.8 |
| 75°   | 20333.5 | 12923.0 | 952.3  | 952.3  | 1102.9 | 1255.8 | 1373.1 | 1342.1 | 1220.3 | 1167.2 | 1151.7 |
| 77.5° | 8571.0  | 5421.7  | 746.4  | 790.7  | 916.9  | 1078.6 | 1224.7 | 1235.8 | 1129.5 | 1196.0 | 1085.2 |
| 80°   | 2279.0  | 1494.9  | 569.2  | 622.3  | 719.8  | 890.3  | 1065.3 | 1060.9 | 945.7  | 883.7  | 821.7  |
| 82.5° | 868.2   | 589.1   | 405.3  | 438.5  | 520.5  | 682.1  | 843.8  | 870.4  | 755.2  | 653.3  | 653.3  |
| 85°   | 334.4   | 252.5   | 250.3  | 263.6  | 303.4  | 451.8  | 637.8  | 660.0  | 569.2  | 482.8  | 498.3  |
| 87.5° | 86.4    | 75.3    | 93.0   | 88.6   | 139.5  | 241.4  | 365.4  | 378.7  | 347.7  | 201.5  | 287.9  |
| 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)