

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: P948786

Luminaire Tested: **GALN-SB3D-727-U-SL3**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P948786  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB3D-727-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 27677 lumens  
Efficiency: N/A  
Efficacy: 126.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 218.1  
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



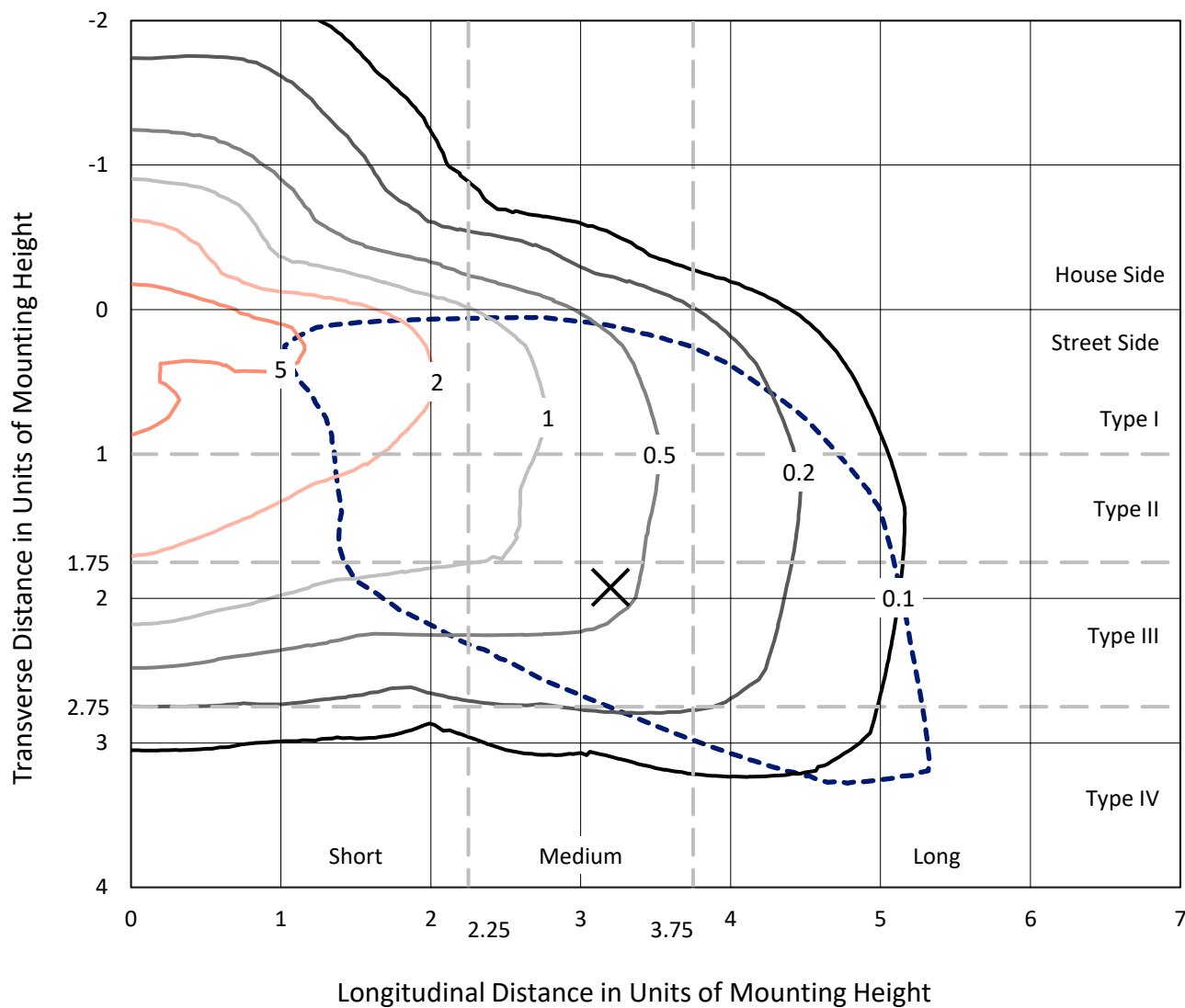
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

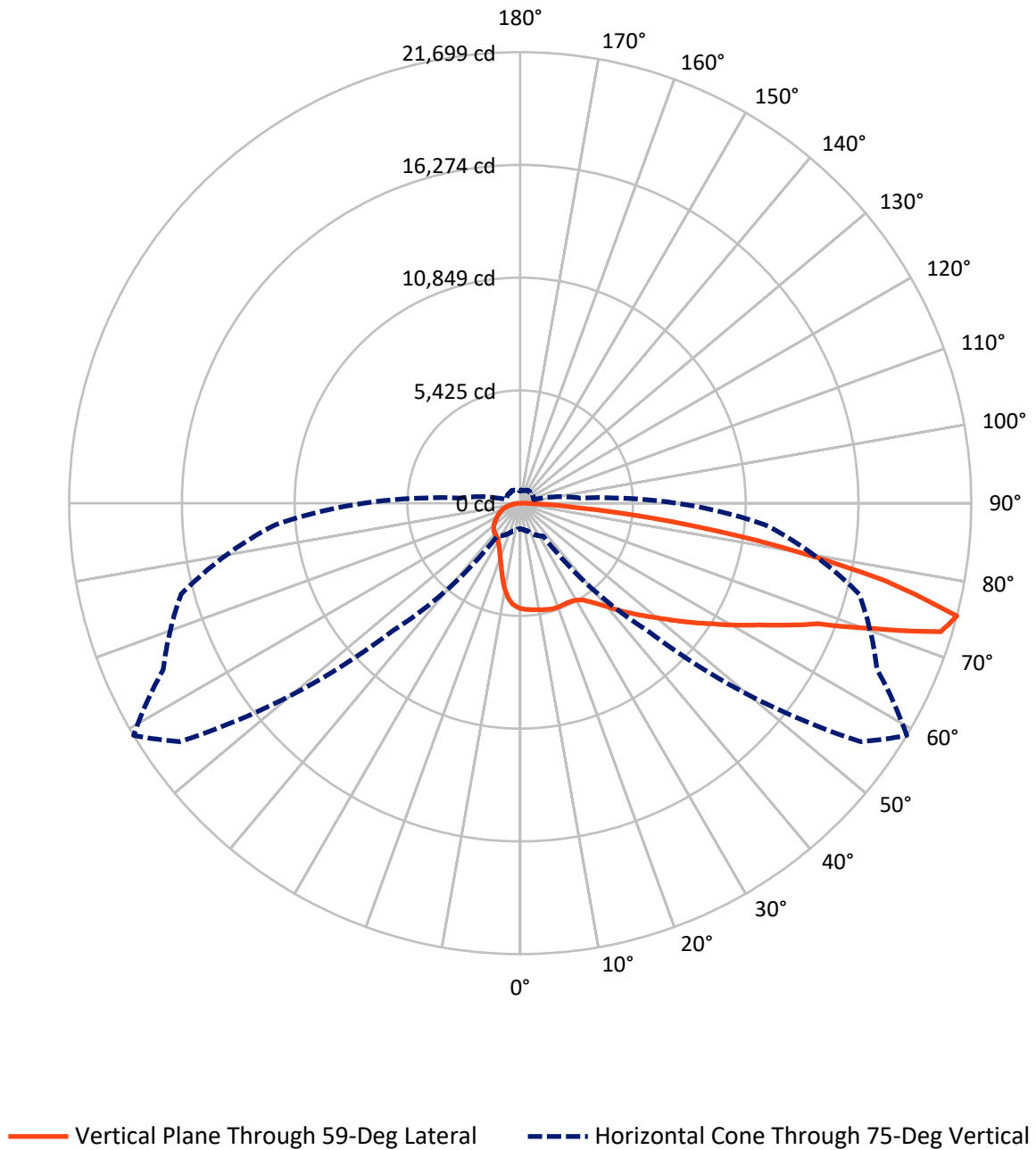


Based on 25 foot mounting height. Maximum calculated value = 8.1 fc  
 Type IV - Medium - N/A

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## Luminous Intensity Polar Plot



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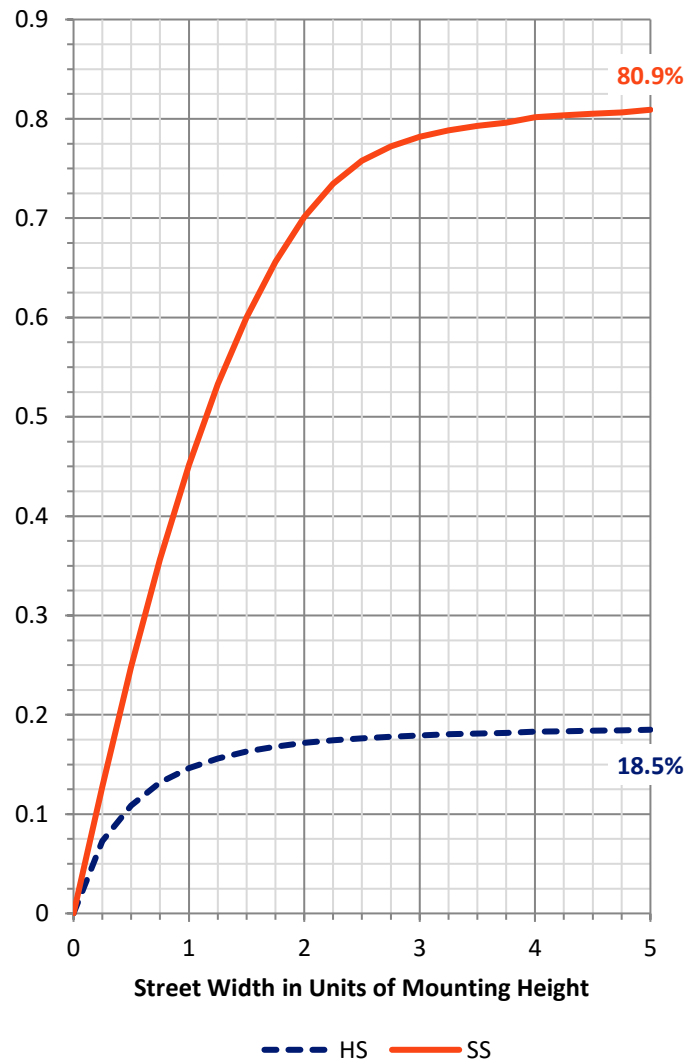
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5191.0   | 0.0    | 5191.0  |
|                    | % Fixture | 18.8     | 0.0    | 18.8    |
| <b>Street Side</b> | Lumens    | 22486.0  | 0.0    | 22486.0 |
|                    | % Fixture | 81.2     | 0.0    | 81.2    |
| <b>Total</b>       | Lumens    | 27677.0  | 0.0    | 27677.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 455.5   | 1.6       |
| 10°-20°   | 1164.3  | 4.2       |
| 20°-30°   | 1768.5  | 6.4       |
| 30°-40°   | 2628.8  | 9.5       |
| 40°-50°   | 3909.5  | 14.1      |
| 50°-60°   | 5306.7  | 19.2      |
| 60°-70°   | 6478.6  | 23.4      |
| 70°-80°   | 5084.3  | 18.4      |
| 80°-90°   | 880.7   | 3.2       |
| 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°    | 27677.0 | 100.0     |
| 0°-180°   | 27677.0 | 100.0     |

**Coefficient of Utilization**



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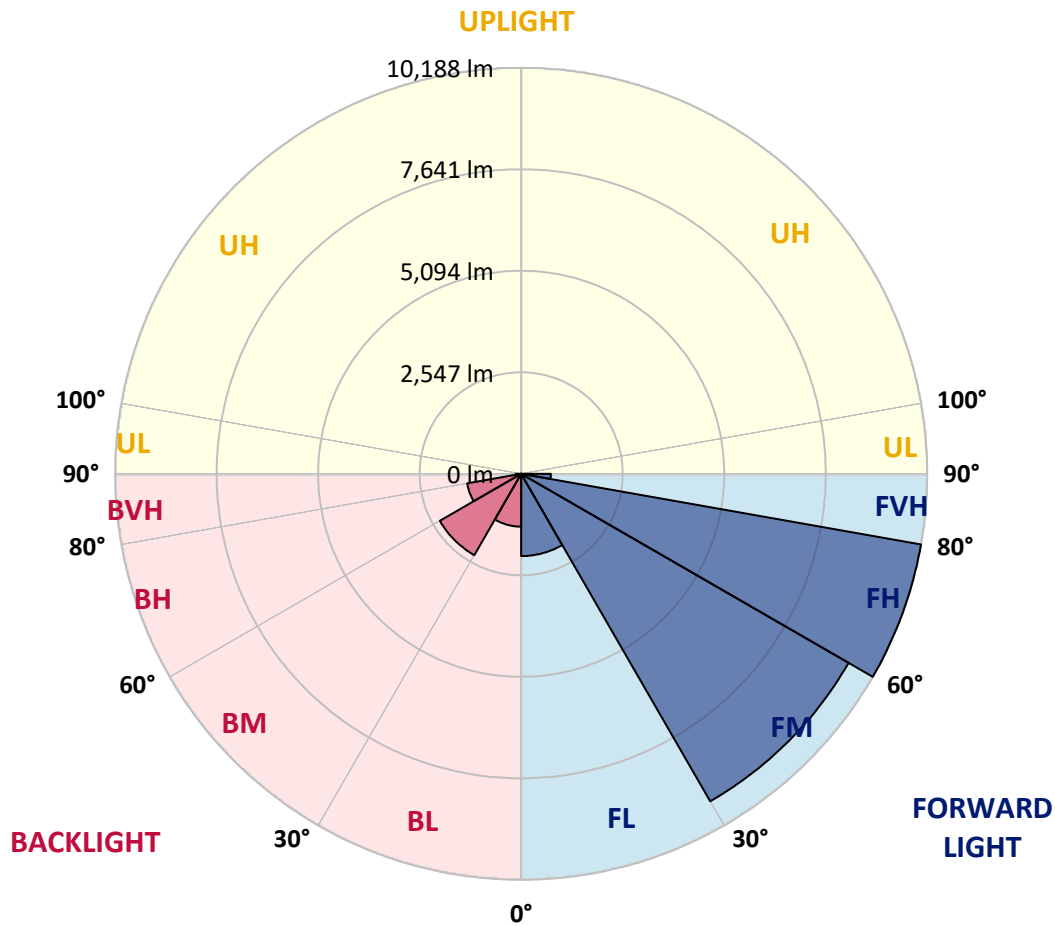
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2063.6  | 7.5       |                         |      |          |
| FM   | (30°-60°)   | 9488.8  | 34.3      |                         |      |          |
| FH   | (60°-80°)   | 10187.6 | 36.8      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 745.9   | 2.7       |                         |      | G4/750   |
| BL   | (0°-30°)    | 1324.7  | 4.8       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 2356.2  | 8.5       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 1375.3  | 5.0       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 134.8   | 0.5       |                         |      | 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 Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 55°     | 59°     | 65°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0°    | 5080.1 | 5080.1 | 5080.1 | 5080.1 | 5080.1 | 5080.1  | 5080.1  | 5080.1  | 5080.1  | 5080.1  | 5080.1  |
| 2.5°  | 5123.2 | 5105.4 | 5123.2 | 5115.8 | 5112.8 | 5106.9  | 5108.3  | 5118.8  | 5112.8  | 5120.3  | 5094.9  |
| 5°    | 5089.0 | 5078.6 | 5096.4 | 5092.0 | 5111.3 | 5114.3  | 5133.7  | 5145.6  | 5153.0  | 5154.5  | 5135.1  |
| 7.5°  | 5032.4 | 5022.0 | 5047.3 | 5068.1 | 5109.8 | 5121.7  | 5161.9  | 5181.3  | 5191.7  | 5209.6  | 5181.3  |
| 10°   | 4825.5 | 4821.0 | 4883.5 | 4962.4 | 5060.7 | 5121.7  | 5182.8  | 5215.5  | 5231.9  | 5279.6  | 5246.8  |
| 12.5° | 4459.2 | 4465.1 | 4547.0 | 4698.9 | 4895.4 | 5092.0  | 5206.6  | 5254.3  | 5279.6  | 5339.1  | 5324.2  |
| 15°   | 4109.3 | 4107.8 | 4197.1 | 4359.4 | 4634.9 | 4960.9  | 5218.5  | 5300.4  | 5343.6  | 5431.4  | 5419.5  |
| 17.5° | 3906.8 | 3900.9 | 3963.4 | 4087.0 | 4343.1 | 4759.9  | 5188.7  | 5325.7  | 5418.0  | 5528.2  | 5517.8  |
| 20°   | 3869.6 | 3857.7 | 3890.4 | 3951.5 | 4133.1 | 4539.6  | 5111.3  | 5325.7  | 5477.6  | 5620.5  | 5614.6  |
| 22.5° | 4005.1 | 3985.7 | 3972.3 | 3964.9 | 4045.3 | 4357.9  | 5023.5  | 5307.9  | 5565.4  | 5753.0  | 5742.6  |
| 25°   | 4277.5 | 4247.8 | 4179.3 | 4112.3 | 4088.5 | 4276.1  | 4946.1  | 5303.4  | 5696.4  | 5931.7  | 5893.0  |
| 27.5° | 4718.3 | 4681.0 | 4542.6 | 4381.8 | 4237.3 | 4317.7  | 4911.8  | 5330.2  | 5840.9  | 6120.8  | 6043.4  |
| 30°   | 5264.7 | 5224.5 | 5050.3 | 4803.1 | 4544.1 | 4472.6  | 4955.0  | 5409.1  | 6025.5  | 6372.4  | 6220.5  |
| 32.5° | 5754.5 | 5709.8 | 5561.0 | 5309.3 | 4959.5 | 4740.6  | 5092.0  | 5559.5  | 6315.8  | 6722.3  | 6487.0  |
| 35°   | 6189.3 | 6137.2 | 6003.2 | 5770.9 | 5468.6 | 5117.3  | 5339.1  | 5826.0  | 6728.2  | 7291.0  | 6848.8  |
| 37.5° | 6615.1 | 6554.0 | 6408.1 | 6162.5 | 5951.0 | 5619.0  | 5680.1  | 6168.4  | 7276.1  | 7981.9  | 7328.3  |
| 40°   | 7091.5 | 7003.7 | 6826.5 | 6583.8 | 6378.4 | 6207.1  | 6128.2  | 6588.3  | 7833.0  | 8753.1  | 7926.8  |
| 42.5° | 7553.1 | 7469.7 | 7258.3 | 7051.3 | 6793.8 | 6744.6  | 6647.8  | 7079.6  | 8441.9  | 9600.3  | 8534.2  |
| 45°   | 8050.4 | 7950.6 | 7694.5 | 7432.5 | 7270.2 | 7101.9  | 7151.1  | 7570.9  | 9039.0  | 10463.8 | 9171.5  |
| 47.5° | 8516.4 | 8404.7 | 8102.5 | 7810.7 | 7721.3 | 7402.7  | 7612.6  | 8111.4  | 9659.8  | 11339.3 | 9802.8  |
| 50°   | 8768.0 | 8657.8 | 8406.2 | 8142.7 | 8072.7 | 7773.4  | 8112.9  | 8705.5  | 10310.5 | 12211.8 | 10408.7 |
| 52.5° | 8977.9 | 8858.8 | 8529.8 | 8383.9 | 8363.0 | 8176.9  | 8729.3  | 9384.4  | 10961.1 | 12983.0 | 10993.9 |
| 55°   | 9201.3 | 9068.8 | 8648.9 | 8517.9 | 8613.2 | 8629.5  | 9460.3  | 10154.1 | 11649.0 | 13734.9 | 11546.2 |
| 57.5° | 9458.8 | 9290.6 | 8763.5 | 8631.0 | 8857.3 | 9159.6  | 10300.1 | 10952.2 | 12324.9 | 14431.7 | 12037.6 |
| 60°   | 9701.5 | 9531.8 | 8983.9 | 8811.2 | 9120.9 | 9774.5  | 11263.4 | 11918.5 | 13090.2 | 15052.6 | 12502.1 |
| 62.5° | 9749.2 | 9609.2 | 9159.6 | 9158.1 | 9478.2 | 10492.1 | 12403.8 | 12893.7 | 13758.7 | 15666.0 | 12919.0 |
| 65°   | 8924.3 | 8836.5 | 8570.0 | 9144.7 | 9990.4 | 11525.4 | 13673.9 | 14141.4 | 14608.9 | 16202.0 | 13285.3 |
| 67.5° | 6792.3 | 6804.2 | 6784.8 | 7894.0 | 9576.5 | 13009.8 | 15512.6 | 15476.9 | 15658.5 | 16803.5 | 13706.6 |
| 70°   | 3105.8 | 3175.8 | 3631.4 | 5449.3 | 7672.2 | 13181.0 | 18552.9 | 18089.9 | 16976.2 | 17582.2 | 14071.4 |
| 72.5° | 1678.0 | 1731.6 | 1917.7 | 2639.8 | 4612.5 | 11719.0 | 20824.9 | 21154.0 | 18728.6 | 18106.2 | 13670.9 |
| 75°   | 1231.3 | 1261.1 | 1390.6 | 1678.0 | 1937.0 | 8709.9  | 20010.5 | 21698.9 | 18947.5 | 16883.9 | 11805.3 |
| 77.5° | 921.6  | 935.0  | 1040.7 | 1329.6 | 991.6  | 4591.7  | 15989.1 | 17970.8 | 16219.8 | 13871.9 | 8720.4  |
| 80°   | 668.5  | 683.4  | 762.3  | 997.5  | 695.3  | 1679.5  | 10979.0 | 12613.8 | 11108.5 | 8842.4  | 4346.0  |
| 82.5° | 461.6  | 467.5  | 501.8  | 678.9  | 485.4  | 652.1   | 6229.5  | 7396.7  | 6201.2  | 3102.8  | 1173.2  |
| 85°   | 278.4  | 285.9  | 300.8  | 396.0  | 275.4  | 309.7   | 2688.9  | 2781.2  | 1853.7  | 741.5   | 364.8   |
| 87.5° | 114.6  | 122.1  | 134.0  | 166.8  | 108.7  | 86.4    | 443.7   | 556.8   | 346.9   | 217.4   | 113.2   |
| 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°    | 5080.1 | 5080.1 | 5080.1 | 5080.1 | 5080.1 | 5080.1 | 5080.1 | 5080.1 | 5080.1 | 5080.1 | 5080.1 |
| 2.5°  | 5087.5 | 5077.1 | 5048.8 | 5010.1 | 4974.3 | 4929.7 | 4910.3 | 4893.9 | 4879.1 | 4850.8 | 4837.4 |
| 5°    | 5118.8 | 5090.5 | 5014.5 | 4916.3 | 4804.6 | 4682.5 | 4563.4 | 4481.5 | 4411.5 | 4359.4 | 4316.3 |
| 7.5°  | 5166.4 | 5112.8 | 4974.3 | 4773.3 | 4517.3 | 4255.2 | 4018.5 | 3850.2 | 3723.7 | 3677.5 | 3597.1 |
| 10°   | 5215.5 | 5151.5 | 4910.3 | 4556.0 | 4113.8 | 3710.3 | 3396.1 | 3223.4 | 3122.2 | 3089.4 | 3038.8 |
| 12.5° | 5273.6 | 5179.8 | 4810.6 | 4253.7 | 3662.6 | 3220.4 | 2946.5 | 2845.2 | 2793.1 | 2775.3 | 2779.7 |
| 15°   | 5358.5 | 5203.6 | 4660.2 | 3875.5 | 3232.4 | 2863.1 | 2685.9 | 2616.0 | 2589.2 | 2587.7 | 2593.6 |
| 17.5° | 5422.5 | 5208.1 | 4426.4 | 3470.6 | 2901.8 | 2647.2 | 2501.3 | 2474.5 | 2492.4 | 2519.2 | 2529.6 |
| 20°   | 5494.0 | 5167.9 | 4119.7 | 3101.3 | 2669.6 | 2458.1 | 2397.1 | 2415.0 | 2458.1 | 2496.8 | 2510.2 |
| 22.5° | 5544.6 | 5094.9 | 3749.0 | 2814.0 | 2468.6 | 2349.4 | 2346.5 | 2383.7 | 2407.5 | 2426.9 | 2437.3 |
| 25°   | 5589.2 | 4971.4 | 3355.9 | 2572.8 | 2303.3 | 2283.9 | 2316.7 | 2304.8 | 2288.4 | 2304.8 | 2315.2 |
| 27.5° | 5622.0 | 4776.3 | 3004.6 | 2361.4 | 2187.2 | 2239.3 | 2219.9 | 2193.1 | 2191.6 | 2200.6 | 2215.5 |
| 30°   | 5611.6 | 4515.8 | 2715.7 | 2160.4 | 2105.3 | 2155.9 | 2109.7 | 2105.3 | 2100.8 | 2105.3 | 2121.7 |
| 32.5° | 5611.6 | 4219.5 | 2493.9 | 2021.9 | 2053.2 | 2033.8 | 2029.3 | 2018.9 | 2001.1 | 1999.6 | 2018.9 |
| 35°   | 5642.8 | 3923.2 | 2303.3 | 1947.5 | 2010.0 | 1963.8 | 1966.8 | 1941.5 | 1904.3 | 1886.4 | 1904.3 |
| 37.5° | 5706.9 | 3685.0 | 2114.2 | 1911.7 | 1934.1 | 1932.6 | 1920.7 | 1877.5 | 1812.0 | 1755.4 | 1774.7 |
| 40°   | 5861.7 | 3615.0 | 1984.7 | 1895.3 | 1898.3 | 1916.2 | 1884.9 | 1801.5 | 1652.7 | 1560.3 | 1572.3 |
| 42.5° | 6104.4 | 3732.6 | 1956.4 | 1855.1 | 1874.5 | 1892.4 | 1831.3 | 1637.8 | 1532.1 | 1477.0 | 1477.0 |
| 45°   | 6412.6 | 3938.1 | 2017.4 | 1797.1 | 1817.9 | 1849.2 | 1667.5 | 1575.2 | 1527.6 | 1529.1 | 1536.5 |
| 47.5° | 6802.7 | 4154.0 | 2130.6 | 1746.5 | 1736.0 | 1753.9 | 1558.9 | 1502.3 | 1436.8 | 1453.1 | 1494.8 |
| 50°   | 7253.8 | 4372.8 | 2237.8 | 1678.0 | 1645.2 | 1587.1 | 1488.9 | 1435.3 | 1351.9 | 1313.2 | 1323.6 |
| 52.5° | 7742.2 | 4584.3 | 2281.0 | 1594.6 | 1546.9 | 1479.9 | 1441.2 | 1375.7 | 1274.5 | 1210.5 | 1209.0 |
| 55°   | 8205.2 | 4776.3 | 2233.3 | 1494.8 | 1448.7 | 1396.6 | 1390.6 | 1350.4 | 1241.7 | 1152.4 | 1152.4 |
| 57.5° | 8642.9 | 4937.1 | 2114.2 | 1393.6 | 1348.9 | 1317.7 | 1357.9 | 1338.5 | 1201.5 | 1086.9 | 1080.9 |
| 60°   | 9013.7 | 5047.3 | 1941.5 | 1290.9 | 1259.6 | 1243.2 | 1304.3 | 1298.3 | 1144.9 | 1016.9 | 1012.4 |
| 62.5° | 9308.5 | 5090.5 | 1750.9 | 1192.6 | 1185.1 | 1155.4 | 1229.8 | 1229.8 | 1073.5 | 948.4  | 943.9  |
| 65°   | 9539.2 | 5048.8 | 1557.4 | 1095.8 | 1110.7 | 1066.0 | 1139.0 | 1130.1 | 997.5  | 887.4  | 881.4  |
| 67.5° | 9743.2 | 4911.8 | 1343.0 | 1000.5 | 1034.8 | 978.2  | 1043.7 | 1022.9 | 914.2  | 826.3  | 820.4  |
| 70°   | 9834.0 | 4593.2 | 1098.8 | 905.2  | 946.9  | 891.8  | 948.4  | 909.7  | 820.4  | 760.8  | 748.9  |
| 72.5° | 9104.5 | 3817.5 | 865.0  | 805.5  | 841.2  | 796.5  | 845.7  | 801.0  | 719.1  | 692.3  | 670.0  |
| 75°   | 7532.2 | 2864.6 | 665.5  | 696.8  | 723.6  | 689.4  | 722.1  | 689.4  | 614.9  | 634.3  | 579.2  |
| 77.5° | 5470.1 | 1934.1 | 509.2  | 582.2  | 594.1  | 576.2  | 604.5  | 567.3  | 500.3  | 495.8  | 473.5  |
| 80°   | 2720.2 | 1133.0 | 399.0  | 460.1  | 455.6  | 443.7  | 476.4  | 458.6  | 402.0  | 425.8  | 421.4  |
| 82.5° | 787.6  | 485.4  | 290.3  | 323.1  | 314.2  | 317.1  | 341.0  | 349.9  | 524.1  | 519.6  | 531.5  |
| 85°   | 247.2  | 190.6  | 174.2  | 180.2  | 171.2  | 175.7  | 201.0  | 399.0  | 369.2  | 215.9  | 233.8  |
| 87.5° | 64.0   | 65.5   | 43.2   | 46.2   | 47.6   | 56.6   | 64.0   | 242.7  | 116.1  | 75.9   | 80.4   |
| 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)