

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: P955245

Luminaire Tested: **GALN-SB8B-730-U-T4W**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P955245  
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-SB8B-730-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 45445 lumens  
Efficiency: N/A  
Efficacy: 155.2 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): 292.8  
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

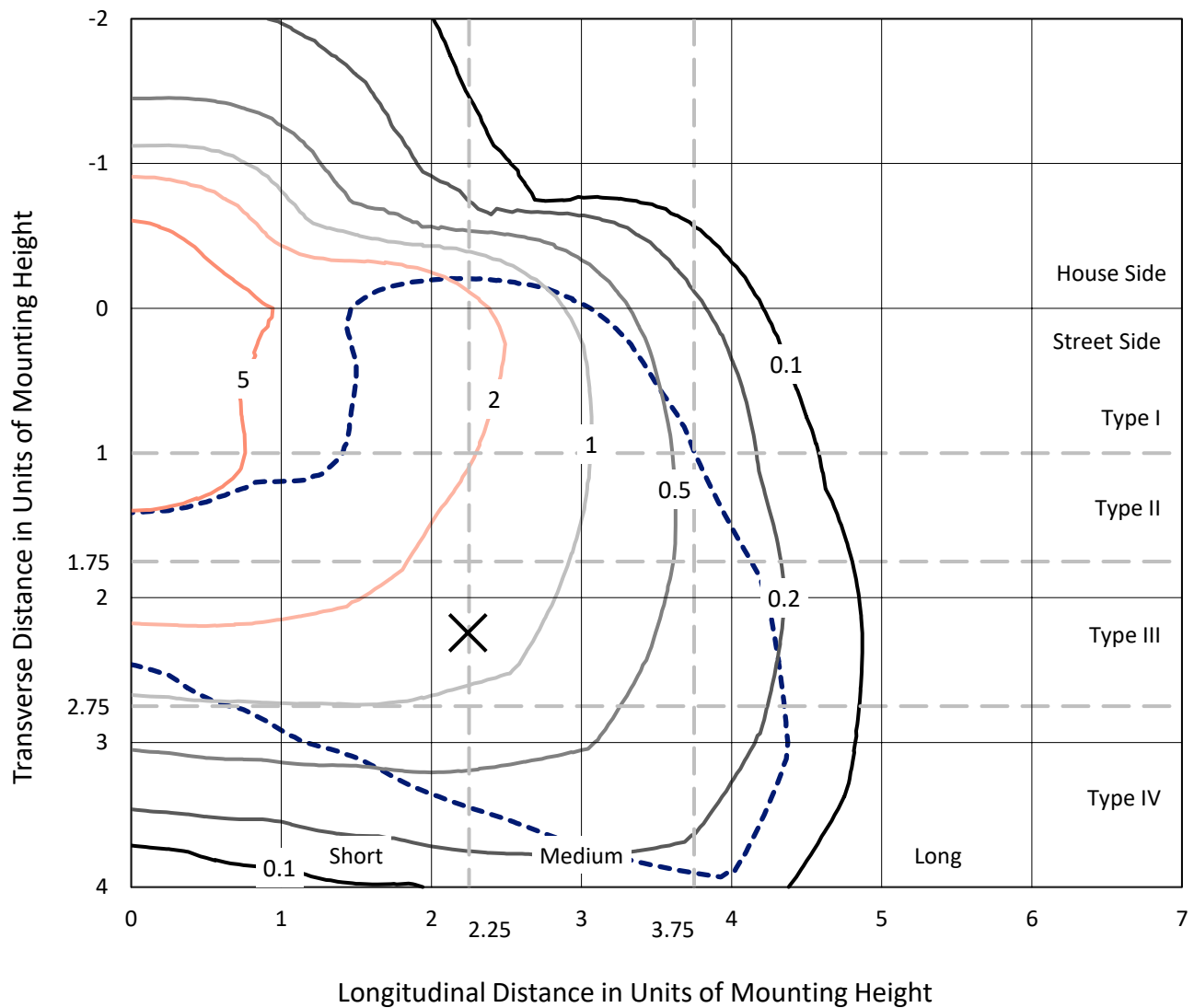


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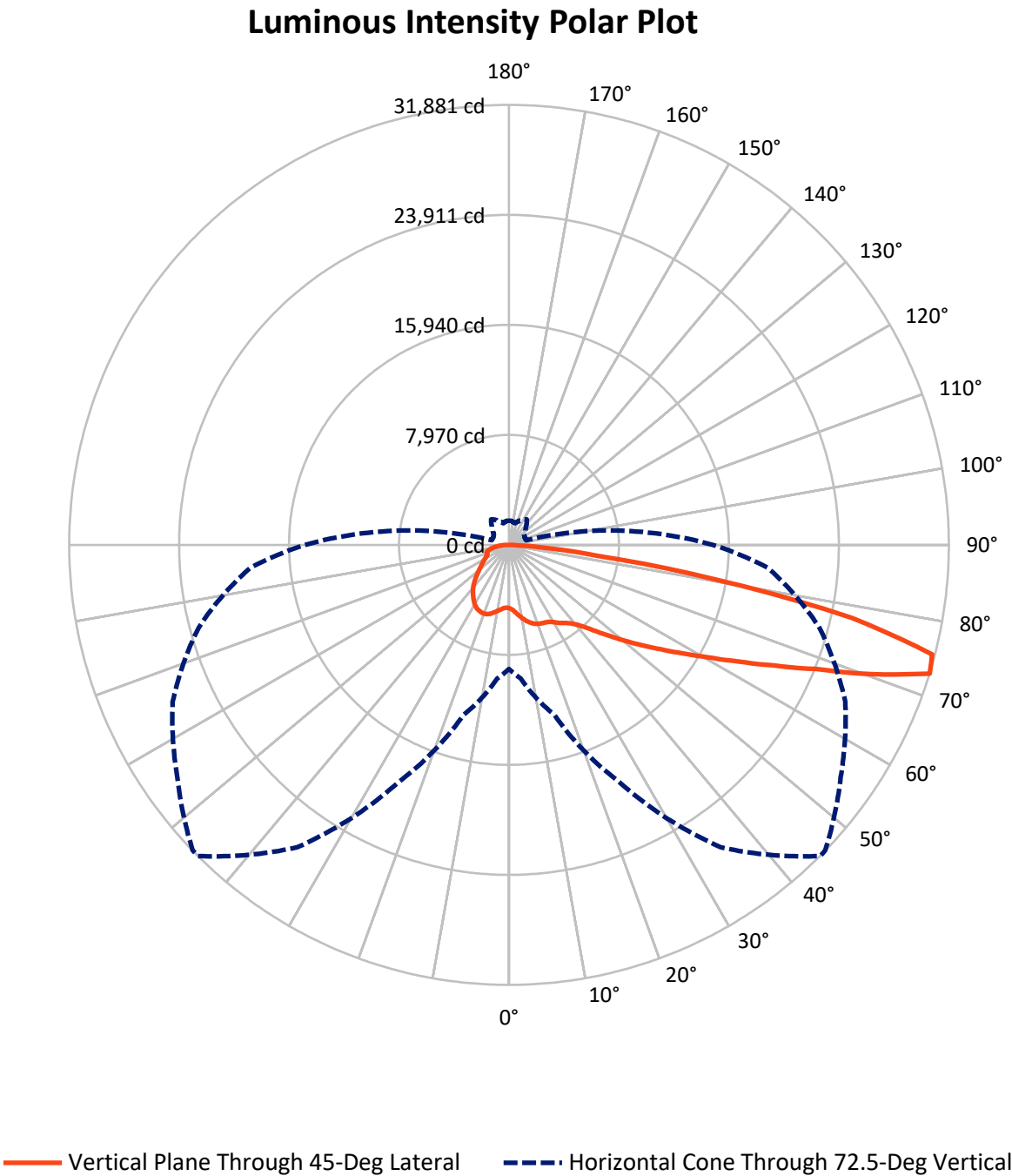
## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc  
 Type IV - Short - N/A

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 10273.6  | 0.0    | 10273.6 |
|                    | % Fixture | 22.6     | 0.0    | 22.6    |
| <b>Street Side</b> | Lumens    | 35171.5  | 0.0    | 35171.5 |
|                    | % Fixture | 77.4     | 0.0    | 77.4    |
| <b>Total</b>       | Lumens    | 45445.0  | 0.0    | 45445.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 466.6   | 1.0       |
| 10°-20°   | 1555.7  | 3.4       |
| 20°-30°   | 2706.3  | 6.0       |
| 30°-40°   | 3879.6  | 8.5       |
| 40°-50°   | 5462.8  | 12.0      |
| 50°-60°   | 8367.4  | 18.4      |
| 60°-70°   | 12121.4 | 26.7      |
| 70°-80°   | 9679.6  | 21.3      |
| 80°-90°   | 1205.6  | 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°    | 45445.0 | 100.0     |
| 0°-180°   | 45445.0 | 100.0     |

**Coefficient of Utilization**



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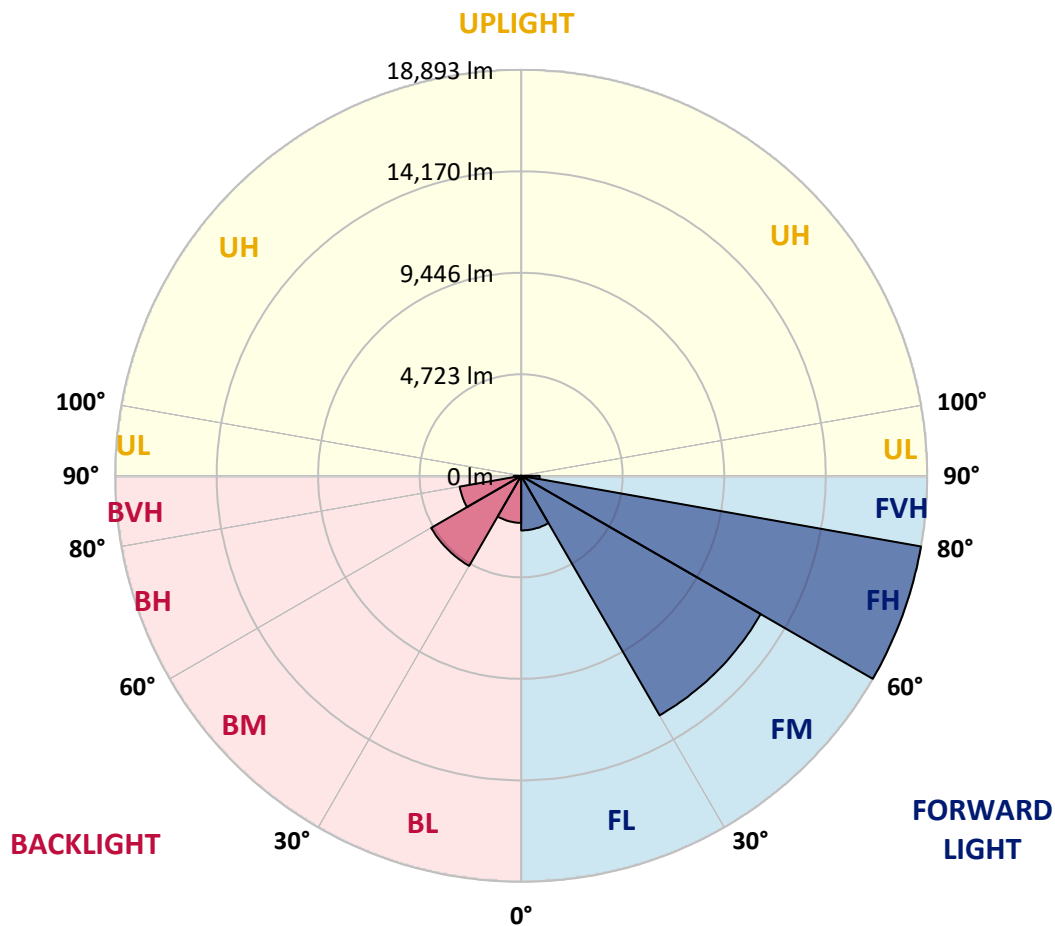
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2541.4  | 5.6       |                         |      |         |
| FM   | (30°-60°)   | 12872.4 | 28.3      |                         |      |         |
| FH   | (60°-80°)   | 18892.8 | 41.6      |                         |      | G5      |
| FVH  | (80°-90°)   | 864.9   | 1.9       |                         |      | G5      |
| BL   | (0°-30°)    | 2187.3  | 4.8       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 4837.4  | 10.6      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 2908.2  | 6.4       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 340.7   | 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°    | 4584.5  | 4584.5  | 4584.5  | 4584.5  | 4584.5  | 4584.5  | 4584.5  | 4584.5  | 4584.5  | 4584.5  | 4584.5  |
| 2.5°  | 4764.1  | 4795.2  | 4766.5  | 4740.1  | 4728.2  | 4697.0  | 4694.6  | 4675.5  | 4663.5  | 4630.0  | 4620.4  |
| 5°    | 5096.8  | 5137.5  | 5089.7  | 5037.0  | 4989.1  | 4912.5  | 4902.9  | 4847.9  | 4785.6  | 4713.8  | 4673.1  |
| 7.5°  | 5472.7  | 5508.6  | 5453.5  | 5374.5  | 5290.7  | 5163.9  | 5161.5  | 5060.9  | 4962.8  | 4840.7  | 4771.2  |
| 10°   | 5800.7  | 5848.5  | 5774.3  | 5666.6  | 5561.3  | 5417.6  | 5400.9  | 5286.0  | 5161.5  | 5003.5  | 4898.1  |
| 12.5° | 6090.3  | 6123.9  | 6052.0  | 5920.4  | 5798.3  | 5654.6  | 5633.1  | 5506.2  | 5367.4  | 5187.8  | 5053.7  |
| 15°   | 6320.2  | 6363.3  | 6267.5  | 6126.3  | 5997.0  | 5855.7  | 5836.6  | 5721.7  | 5582.8  | 5393.7  | 5221.3  |
| 17.5° | 6471.0  | 6506.9  | 6408.7  | 6250.7  | 6126.3  | 6008.9  | 5994.6  | 5898.8  | 5776.7  | 5585.2  | 5400.9  |
| 20°   | 6528.4  | 6566.8  | 6463.8  | 6303.4  | 6188.5  | 6097.5  | 6090.3  | 6020.9  | 5937.1  | 5762.4  | 5575.6  |
| 22.5° | 6585.9  | 6621.8  | 6487.7  | 6320.2  | 6219.6  | 6162.2  | 6159.8  | 6114.3  | 6080.8  | 5937.1  | 5755.2  |
| 25°   | 6818.1  | 6827.7  | 6648.1  | 6406.4  | 6262.7  | 6212.4  | 6210.0  | 6207.7  | 6222.0  | 6109.5  | 5949.1  |
| 27.5° | 7019.2  | 7016.8  | 6863.6  | 6636.2  | 6413.5  | 6308.2  | 6305.8  | 6329.7  | 6375.2  | 6281.9  | 6150.2  |
| 30°   | 7313.7  | 7287.3  | 7105.4  | 6868.4  | 6664.9  | 6502.1  | 6487.7  | 6466.2  | 6502.1  | 6427.9  | 6351.3  |
| 32.5° | 7938.5  | 7854.7  | 7560.3  | 7138.9  | 6873.2  | 6748.7  | 6729.5  | 6595.5  | 6609.8  | 6564.4  | 6526.1  |
| 35°   | 8833.9  | 8723.7  | 8331.1  | 7651.2  | 7131.7  | 6954.6  | 6945.0  | 6775.0  | 6746.3  | 6705.6  | 6720.0  |
| 37.5° | 9899.2  | 9762.7  | 9305.5  | 8393.4  | 7577.0  | 7194.0  | 7179.6  | 7026.4  | 6909.1  | 6866.0  | 6947.4  |
| 40°   | 10969.3 | 10797.0 | 10418.7 | 9298.3  | 8233.0  | 7593.8  | 7548.3  | 7316.1  | 7182.0  | 7110.2  | 7282.6  |
| 42.5° | 12008.3 | 11864.7 | 11541.5 | 10313.4 | 9042.1  | 8177.9  | 8077.4  | 7680.0  | 7579.4  | 7512.4  | 7823.6  |
| 45°   | 12927.6 | 12798.3 | 12561.3 | 11397.8 | 9990.2  | 8972.7  | 8874.6  | 8225.8  | 8194.7  | 8194.7  | 8644.7  |
| 47.5° | 13674.5 | 13645.8 | 13394.4 | 12503.9 | 11108.2 | 9877.7  | 9707.7  | 8984.7  | 9068.5  | 9197.8  | 9810.6  |
| 50°   | 14502.9 | 14423.9 | 14155.7 | 13593.1 | 12422.5 | 10914.3 | 10775.4 | 9916.0  | 10229.6 | 10583.9 | 11496.0 |
| 52.5° | 15264.2 | 15307.3 | 15008.0 | 14727.9 | 13906.8 | 12070.6 | 11826.4 | 11014.8 | 11692.3 | 12278.8 | 13471.1 |
| 55°   | 16047.0 | 16049.4 | 15965.6 | 15927.3 | 15462.9 | 13349.0 | 13080.8 | 12336.3 | 13413.6 | 14141.4 | 15774.1 |
| 57.5° | 16782.0 | 16786.7 | 16911.2 | 17248.8 | 17267.9 | 14823.7 | 14519.6 | 13959.4 | 15326.4 | 16068.5 | 18148.9 |
| 60°   | 17437.9 | 17471.4 | 17811.4 | 18601.4 | 18855.2 | 16513.8 | 16226.6 | 15877.0 | 17303.9 | 18050.8 | 20645.9 |
| 62.5° | 17658.2 | 17780.3 | 18536.8 | 19659.6 | 20423.2 | 18587.0 | 18304.5 | 18096.3 | 19381.8 | 20076.1 | 22733.5 |
| 65°   | 17284.7 | 17564.8 | 19027.5 | 20533.4 | 22036.8 | 21050.5 | 20770.4 | 20542.9 | 21541.2 | 22194.8 | 24447.6 |
| 67.5° | 16367.8 | 16729.3 | 18998.8 | 21450.3 | 23995.1 | 24014.2 | 23753.3 | 23219.4 | 23856.2 | 24107.6 | 25005.4 |
| 70°   | 13952.3 | 14493.3 | 17325.4 | 21792.6 | 26243.1 | 28067.3 | 27815.9 | 26441.8 | 26166.5 | 24950.3 | 23434.9 |
| 72.5° | 8989.5  | 9717.3  | 12757.6 | 18974.9 | 26743.4 | 31880.9 | 31866.6 | 29350.5 | 26896.6 | 23312.8 | 18795.3 |
| 75°   | 3279.8  | 3725.1  | 5927.6  | 11910.2 | 22448.6 | 31687.0 | 31780.4 | 28852.5 | 24552.9 | 18007.7 | 11709.1 |
| 77.5° | 1194.6  | 1307.1  | 1934.4  | 4577.3  | 13806.2 | 25424.3 | 25618.2 | 23066.2 | 17476.2 | 9037.4  | 4639.6  |
| 80°   | 627.2   | 689.5   | 991.1   | 1776.4  | 5915.6  | 15099.0 | 15403.0 | 13708.1 | 8213.8  | 2722.0  | 1390.9  |
| 82.5° | 347.1   | 375.9   | 555.4   | 964.8   | 2664.5  | 6456.6  | 6638.6  | 5415.2  | 2889.6  | 1153.9  | 574.6   |
| 85°   | 186.7   | 198.7   | 260.9   | 526.7   | 1302.3  | 2238.4  | 2288.7  | 1618.3  | 1151.5  | 677.5   | 277.7   |
| 87.5° | 55.1    | 67.0    | 86.2    | 167.6   | 509.9   | 502.7   | 514.7   | 320.8   | 454.9   | 342.3   | 91.0    |
| 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°    | 4584.5  | 4584.5  | 4584.5 | 4584.5 | 4584.5 | 4584.5 | 4584.5 | 4584.5 | 4584.5 | 4584.5 | 4584.5 |
| 2.5°  | 4606.1  | 4598.9  | 4572.5 | 4560.6 | 4546.2 | 4543.8 | 4555.8 | 4558.2 | 4560.6 | 4563.0 | 4572.5 |
| 5°    | 4649.2  | 4625.2  | 4601.3 | 4586.9 | 4591.7 | 4594.1 | 4618.0 | 4634.8 | 4646.8 | 4656.3 | 4661.1 |
| 7.5°  | 4732.9  | 4713.8  | 4673.1 | 4670.7 | 4677.9 | 4699.4 | 4730.6 | 4768.9 | 4790.4 | 4807.2 | 4811.9 |
| 10°   | 4857.4  | 4821.5  | 4773.6 | 4780.8 | 4795.2 | 4826.3 | 4890.9 | 4922.1 | 4958.0 | 4989.1 | 4981.9 |
| 12.5° | 4984.3  | 4953.2  | 4898.1 | 4902.9 | 4926.9 | 4981.9 | 5044.2 | 5082.5 | 5106.4 | 5130.3 | 5139.9 |
| 15°   | 5149.5  | 5094.4  | 5034.6 | 5034.6 | 5077.7 | 5137.5 | 5166.3 | 5197.4 | 5211.7 | 5238.1 | 5247.7 |
| 17.5° | 5319.5  | 5247.7  | 5168.7 | 5163.9 | 5216.5 | 5245.3 | 5262.0 | 5266.8 | 5271.6 | 5300.3 | 5309.9 |
| 20°   | 5489.4  | 5410.4  | 5297.9 | 5288.4 | 5300.3 | 5295.5 | 5293.1 | 5288.4 | 5295.5 | 5331.4 | 5345.8 |
| 22.5° | 5657.0  | 5566.1  | 5410.4 | 5367.4 | 5333.8 | 5288.4 | 5286.0 | 5283.6 | 5288.4 | 5324.3 | 5348.2 |
| 25°   | 5853.3  | 5743.2  | 5534.9 | 5405.7 | 5293.1 | 5230.9 | 5238.1 | 5240.5 | 5245.3 | 5274.0 | 5312.3 |
| 27.5° | 6066.4  | 5944.3  | 5649.8 | 5393.7 | 5190.2 | 5147.1 | 5135.1 | 5142.3 | 5159.1 | 5204.6 | 5250.0 |
| 30°   | 6279.5  | 6135.8  | 5755.2 | 5345.8 | 5060.9 | 5001.1 | 4962.8 | 4979.5 | 5032.2 | 5077.7 | 5128.0 |
| 32.5° | 6473.4  | 6329.7  | 5839.0 | 5240.5 | 4895.7 | 4802.4 | 4752.1 | 4773.6 | 4826.3 | 4843.1 | 4902.9 |
| 35°   | 6700.8  | 6538.0  | 5874.9 | 5072.9 | 4716.2 | 4572.5 | 4505.5 | 4474.4 | 4500.7 | 4484.0 | 4536.6 |
| 37.5° | 6954.6  | 6784.6  | 5870.1 | 4852.6 | 4505.5 | 4340.3 | 4247.0 | 4129.7 | 4074.6 | 4017.1 | 4053.0 |
| 40°   | 7330.4  | 7086.2  | 5812.6 | 4586.9 | 4244.6 | 4093.7 | 3926.2 | 3727.5 | 3603.0 | 3490.5 | 3497.6 |
| 42.5° | 7842.8  | 7505.2  | 5707.3 | 4294.8 | 3950.1 | 3808.9 | 3581.4 | 3349.2 | 3152.9 | 2966.2 | 2949.4 |
| 45°   | 8606.4  | 8053.4  | 5575.6 | 3983.6 | 3631.7 | 3492.9 | 3246.3 | 2985.3 | 2762.7 | 2523.3 | 2494.6 |
| 47.5° | 9707.7  | 8790.8  | 5451.1 | 3629.3 | 3296.5 | 3169.7 | 2947.0 | 2705.2 | 2441.9 | 2209.7 | 2183.3 |
| 50°   | 11220.7 | 9848.9  | 5336.2 | 3284.6 | 2966.2 | 2870.4 | 2693.3 | 2446.7 | 2180.9 | 1994.2 | 1982.2 |
| 52.5° | 13145.5 | 11287.7 | 5288.4 | 2951.8 | 2657.3 | 2621.4 | 2480.2 | 2250.4 | 1999.0 | 1841.0 | 1829.0 |
| 55°   | 15355.1 | 13009.0 | 5288.4 | 2633.4 | 2386.8 | 2398.8 | 2300.6 | 2087.6 | 1869.7 | 1728.5 | 1714.1 |
| 57.5° | 17610.3 | 14751.8 | 5192.6 | 2338.9 | 2157.0 | 2207.3 | 2145.0 | 1958.3 | 1762.0 | 1616.0 | 1592.0 |
| 60°   | 19688.3 | 16212.2 | 4804.8 | 2070.8 | 1953.5 | 2032.5 | 1991.8 | 1831.4 | 1592.0 | 1469.9 | 1450.8 |
| 62.5° | 21285.1 | 17035.7 | 4057.8 | 1857.7 | 1785.9 | 1876.9 | 1855.4 | 1663.8 | 1560.9 | 1510.6 | 1493.9 |
| 65°   | 22084.7 | 16901.7 | 3102.6 | 1668.6 | 1644.7 | 1785.9 | 1740.4 | 1733.3 | 1651.9 | 1594.4 | 1575.3 |
| 67.5° | 21593.9 | 15747.8 | 2250.4 | 1529.8 | 1563.3 | 1702.1 | 1876.9 | 1905.6 | 1754.8 | 1642.3 | 1623.1 |
| 70°   | 19441.7 | 13660.2 | 1675.8 | 1398.1 | 1460.3 | 1704.5 | 2140.2 | 1994.2 | 1721.3 | 1589.6 | 1568.1 |
| 72.5° | 14790.2 | 10186.5 | 1299.9 | 1259.2 | 1326.3 | 1716.5 | 2257.5 | 1953.5 | 1625.5 | 1757.2 | 1742.8 |
| 75°   | 8458.0  | 5592.4  | 1043.8 | 1089.3 | 1158.7 | 1604.0 | 2197.7 | 1848.2 | 1551.3 | 1613.6 | 1613.6 |
| 77.5° | 3224.7  | 2149.8  | 861.8  | 921.7  | 931.3  | 1400.5 | 2101.9 | 1841.0 | 1477.1 | 1441.2 | 1314.3 |
| 80°   | 1118.0  | 840.3   | 713.4  | 732.6  | 720.6  | 1244.9 | 2015.8 | 1601.6 | 1209.0 | 1082.1 | 1046.2 |
| 82.5° | 457.3   | 419.0   | 565.0  | 541.0  | 512.3  | 967.2  | 1627.9 | 1309.5 | 988.7  | 873.8  | 864.2  |
| 85°   | 198.7   | 265.7   | 373.5  | 328.0  | 296.9  | 670.3  | 1304.7 | 1108.4 | 835.5  | 720.6  | 718.2  |
| 87.5° | 40.7    | 100.5   | 158.0  | 148.4  | 153.2  | 447.7  | 926.5  | 787.6  | 591.3  | 442.9  | 347.1  |
| 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)