

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: P941797

Luminaire Tested: **GALN-SB5C-730-U-T3**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P941797  
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-SB5C-730-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 37856 lumens  
Efficiency: N/A  
Efficacy: 151.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 249.5  
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

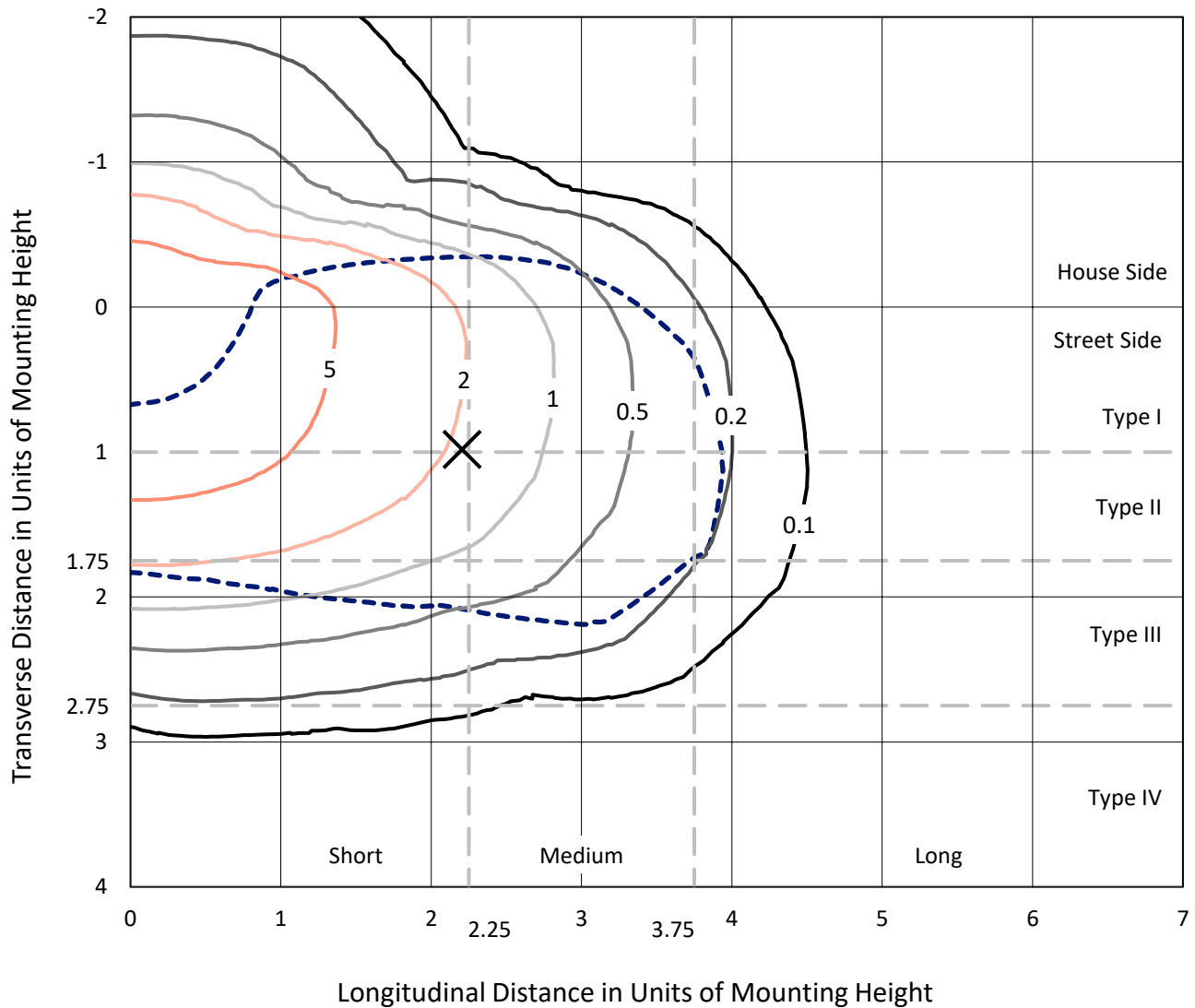


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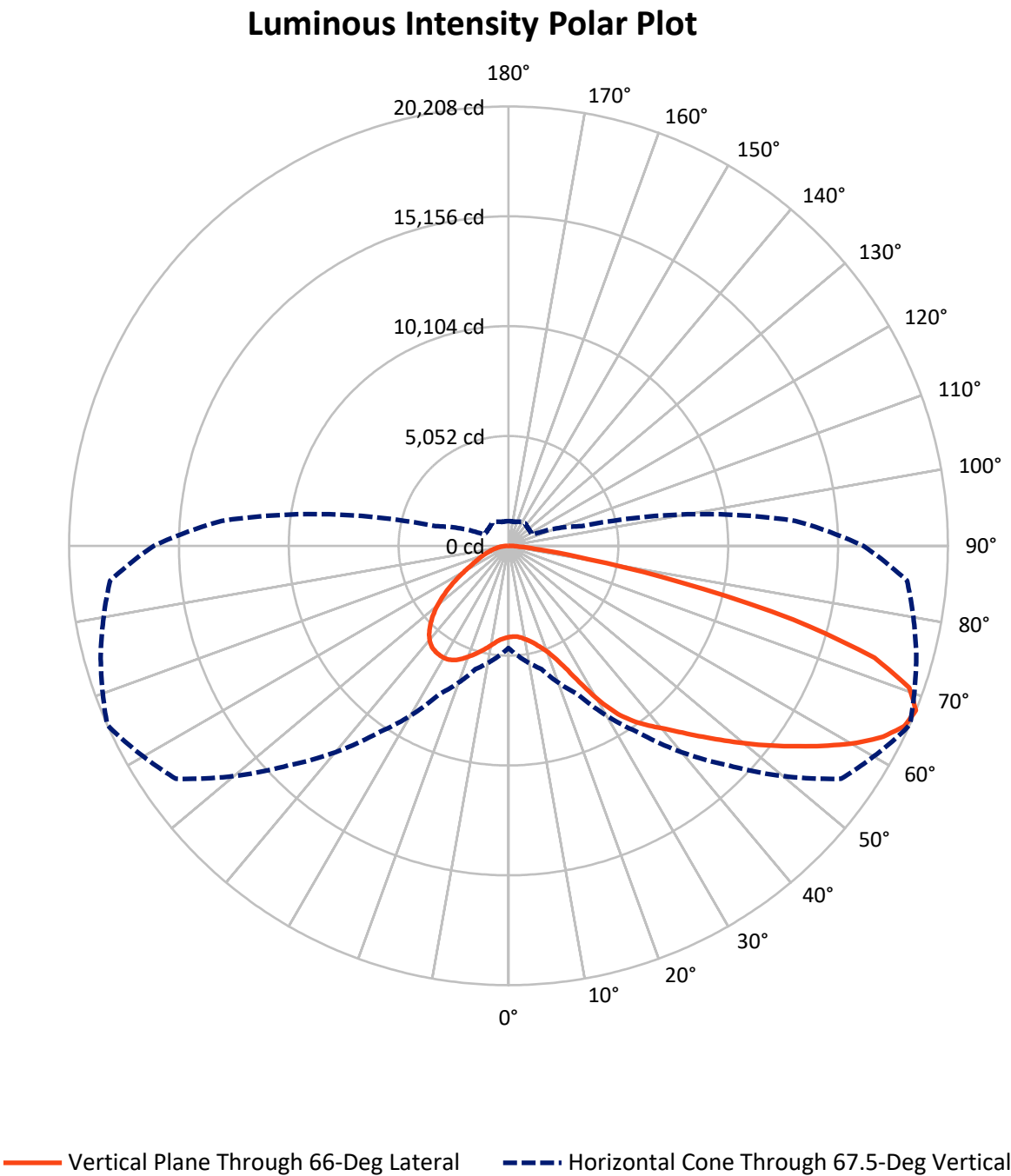
## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc  
 Type III - Short - N/A

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9412.8   | 0.0    | 9412.8  |
|                    | % Fixture | 24.9     | 0.0    | 24.9    |
| <b>Street Side</b> | Lumens    | 28443.2  | 0.0    | 28443.2 |
|                    | % Fixture | 75.1     | 0.0    | 75.1    |
| <b>Total</b>       | Lumens    | 37856.0  | 0.0    | 37856.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 416.3   | 1.1       |
| 10°-20°   | 1375.4  | 3.6       |
| 20°-30°   | 2650.9  | 7.0       |
| 30°-40°   | 4648.1  | 12.3      |
| 40°-50°   | 6910.1  | 18.3      |
| 50°-60°   | 8759.3  | 23.1      |
| 60°-70°   | 8570.7  | 22.6      |
| 70°-80°   | 4088.3  | 10.8      |
| 80°-90°   | 436.9   | 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°    | 37856.0 | 100.0     |
| 0°-180°   | 37856.0 | 100.0     |

**Coefficient of Utilization**



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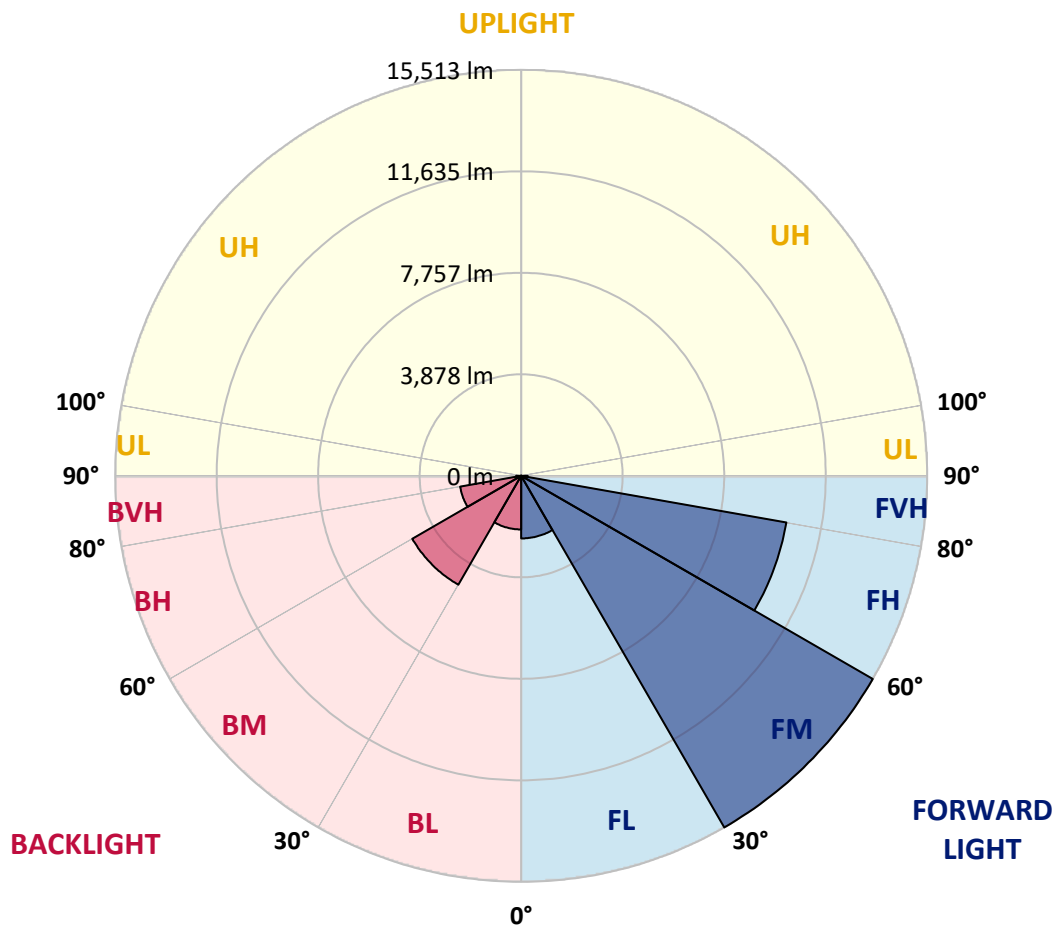
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2392.1  | 6.3       |                         |      |          |
| FM   | (30°-60°)   | 15513.1 | 41.0      |                         |      |          |
| FH   | (60°-80°)   | 10290.3 | 27.2      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 247.7   | 0.7       |                         |      | G3/500   |
| BL   | (0°-30°)    | 2050.4  | 5.4       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 4804.4  | 12.7      | B3/5000                 |      |          |
| BH   | (60°-80°)   | 2368.7  | 6.3       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 189.2   | 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 III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 66°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4198.7  | 4198.7  | 4198.7  | 4198.7  | 4198.7  | 4198.7  | 4198.7  | 4198.7  | 4198.7  | 4198.7  | 4198.7  |
| 2.5°  | 4155.0  | 4178.8  | 4172.9  | 4162.9  | 4160.9  | 4164.9  | 4170.9  | 4176.9  | 4174.9  | 4184.8  | 4200.7  |
| 5°    | 4143.0  | 4166.9  | 4164.9  | 4164.9  | 4172.9  | 4188.8  | 4198.7  | 4208.7  | 4198.7  | 4210.7  | 4232.5  |
| 7.5°  | 4151.0  | 4168.9  | 4176.9  | 4184.8  | 4204.7  | 4234.5  | 4258.4  | 4280.3  | 4268.3  | 4282.3  | 4310.1  |
| 10°   | 4252.4  | 4266.4  | 4274.3  | 4274.3  | 4288.2  | 4322.0  | 4345.9  | 4385.7  | 4375.7  | 4397.6  | 4433.4  |
| 12.5° | 4437.4  | 4451.3  | 4451.3  | 4443.4  | 4453.3  | 4475.2  | 4483.2  | 4526.9  | 4509.0  | 4544.8  | 4580.6  |
| 15°   | 4664.2  | 4692.0  | 4670.1  | 4656.2  | 4660.2  | 4682.1  | 4680.1  | 4713.9  | 4696.0  | 4725.8  | 4757.6  |
| 17.5° | 4914.8  | 4950.6  | 4914.8  | 4912.8  | 4904.8  | 4928.7  | 4930.7  | 4960.5  | 4928.7  | 4950.6  | 4972.4  |
| 20°   | 5211.1  | 5260.8  | 5231.0  | 5241.0  | 5223.1  | 5233.0  | 5242.9  | 5286.7  | 5237.0  | 5252.9  | 5246.9  |
| 22.5° | 5628.8  | 5688.5  | 5656.7  | 5694.4  | 5682.5  | 5674.6  | 5672.6  | 5750.1  | 5672.6  | 5678.5  | 5620.8  |
| 25°   | 6237.4  | 6309.0  | 6253.3  | 6305.1  | 6305.1  | 6330.9  | 6360.7  | 6460.2  | 6330.9  | 6293.1  | 6144.0  |
| 27.5° | 7136.4  | 7208.1  | 7098.7  | 7130.5  | 7120.5  | 7184.2  | 7152.4  | 7399.0  | 7259.8  | 7198.1  | 6897.8  |
| 30°   | 8218.5  | 8345.7  | 8138.9  | 8130.9  | 8121.0  | 8222.4  | 8268.2  | 8431.3  | 8290.1  | 8228.4  | 7866.4  |
| 32.5° | 9388.0  | 9521.2  | 9274.6  | 9203.0  | 9165.2  | 9226.9  | 9189.1  | 9320.3  | 9222.9  | 9127.4  | 8679.9  |
| 35°   | 10625.1 | 10756.4 | 10521.7 | 10382.5 | 10231.3 | 10102.0 | 9966.8  | 10000.6 | 9909.1  | 9763.9  | 9300.5  |
| 37.5° | 11794.6 | 12035.3 | 11786.7 | 11637.5 | 11359.0 | 11106.4 | 10728.5 | 10571.4 | 10485.9 | 10352.6 | 9885.2  |
| 40°   | 12986.0 | 13123.3 | 12934.3 | 12807.0 | 12504.7 | 12108.9 | 11504.2 | 11172.1 | 11056.7 | 10927.4 | 10531.6 |
| 42.5° | 13863.2 | 13994.4 | 13893.0 | 13805.5 | 13568.8 | 13109.3 | 12327.7 | 11912.0 | 11744.9 | 11599.7 | 11263.6 |
| 45°   | 14559.3 | 14656.8 | 14593.1 | 14624.9 | 14523.5 | 14078.0 | 13181.0 | 12705.6 | 12532.5 | 12355.5 | 12091.0 |
| 47.5° | 14839.8 | 14943.2 | 15044.6 | 15233.6 | 15406.6 | 15078.4 | 14097.9 | 13564.8 | 13381.8 | 13200.8 | 12940.3 |
| 50°   | 14807.9 | 14913.4 | 15207.7 | 15609.5 | 16146.5 | 16037.1 | 15064.5 | 14479.8 | 14310.7 | 14103.8 | 13863.2 |
| 52.5° | 14553.3 | 14672.7 | 15050.6 | 15718.9 | 16574.1 | 16755.1 | 16049.1 | 15424.5 | 15265.4 | 15018.8 | 14778.1 |
| 55°   | 13885.0 | 13956.7 | 14523.5 | 15470.3 | 16675.6 | 17256.4 | 17013.7 | 16430.9 | 16271.8 | 15927.7 | 15665.2 |
| 57.5° | 12645.9 | 12749.3 | 13574.8 | 14800.0 | 16421.0 | 17596.5 | 17861.0 | 17489.1 | 17335.9 | 16840.7 | 16566.2 |
| 60°   | 11028.9 | 11194.0 | 12138.7 | 13674.2 | 15772.6 | 17594.5 | 18630.7 | 18529.3 | 18402.0 | 17739.7 | 17453.3 |
| 62.5° | 9199.0  | 9390.0  | 10298.9 | 12083.0 | 14638.9 | 17095.3 | 19112.1 | 19400.5 | 19334.8 | 18569.1 | 18203.1 |
| 65°   | 7064.8  | 7196.1  | 8101.1  | 10024.4 | 12874.6 | 16023.2 | 19167.8 | 19995.2 | 20007.1 | 19199.6 | 18594.9 |
| 67.5° | 4703.9  | 5081.8  | 5867.5  | 7522.3  | 10511.7 | 14270.9 | 18678.5 | 20092.6 | 20208.0 | 19416.4 | 18398.0 |
| 70°   | 2295.3  | 2792.5  | 3562.3  | 4888.9  | 7522.3  | 11583.8 | 17399.6 | 19293.1 | 19549.7 | 18783.9 | 17224.5 |
| 72.5° | 952.7   | 1113.8  | 1533.5  | 2412.6  | 4318.1  | 7816.7  | 14829.8 | 17125.1 | 17600.5 | 16643.8 | 14481.7 |
| 75°   | 642.4   | 696.1   | 877.1   | 1237.1  | 1967.1  | 3854.6  | 10694.7 | 12769.2 | 13535.0 | 12570.3 | 10275.1 |
| 77.5° | 495.3   | 529.1   | 638.5   | 865.2   | 1169.5  | 1457.9  | 5724.3  | 7695.4  | 8091.2  | 7490.5  | 5346.4  |
| 80°   | 389.8   | 415.7   | 477.4   | 630.5   | 829.4   | 779.7   | 1951.2  | 3486.7  | 3715.4  | 3116.7  | 1718.5  |
| 82.5° | 338.1   | 348.1   | 342.1   | 427.6   | 550.9   | 455.5   | 640.5   | 1286.9  | 1420.1  | 1030.3  | 560.9   |
| 85°   | 244.6   | 272.5   | 284.4   | 264.5   | 292.4   | 230.7   | 262.5   | 455.5   | 501.2   | 447.5   | 316.2   |
| 87.5° | 99.4    | 147.2   | 181.0   | 171.1   | 107.4   | 65.6    | 81.5    | 133.3   | 153.2   | 167.1   | 103.4   |
| 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°    | 4198.7  | 4198.7  | 4198.7 | 4198.7 | 4198.7 | 4198.7 | 4198.7 | 4198.7 | 4198.7 | 4198.7 | 4198.7 |
| 2.5°  | 4202.7  | 4216.6  | 4226.6 | 4238.5 | 4246.5 | 4258.4 | 4282.3 | 4296.2 | 4298.2 | 4308.1 | 4306.1 |
| 5°    | 4240.5  | 4260.4  | 4282.3 | 4314.1 | 4349.9 | 4379.7 | 4425.5 | 4457.3 | 4469.2 | 4479.2 | 4477.2 |
| 7.5°  | 4322.0  | 4349.9  | 4389.7 | 4445.4 | 4497.1 | 4536.9 | 4592.5 | 4630.3 | 4668.1 | 4682.1 | 4684.0 |
| 10°   | 4443.4  | 4483.2  | 4540.8 | 4616.4 | 4672.1 | 4723.8 | 4781.5 | 4813.3 | 4851.1 | 4867.0 | 4875.0 |
| 12.5° | 4594.5  | 4636.3  | 4711.9 | 4817.3 | 4869.0 | 4904.8 | 4924.7 | 4916.8 | 4924.7 | 4938.6 | 4942.6 |
| 15°   | 4767.6  | 4813.3  | 4898.9 | 5012.2 | 5048.0 | 5016.2 | 4972.4 | 4932.7 | 4926.7 | 4930.7 | 4944.6 |
| 17.5° | 4972.4  | 5006.3  | 5105.7 | 5201.2 | 5175.3 | 5044.0 | 4948.6 | 4884.9 | 4853.1 | 4843.2 | 4857.1 |
| 20°   | 5258.9  | 5258.9  | 5340.4 | 5400.1 | 5227.0 | 5004.3 | 4855.1 | 4751.7 | 4686.0 | 4658.2 | 4652.2 |
| 22.5° | 5606.9  | 5575.1  | 5626.8 | 5585.0 | 5217.1 | 4892.9 | 4686.0 | 4507.0 | 4407.6 | 4367.8 | 4361.8 |
| 25°   | 6048.5  | 6010.7  | 5996.8 | 5738.2 | 5145.5 | 4715.9 | 4379.7 | 4162.9 | 4075.4 | 4053.5 | 4057.5 |
| 27.5° | 6714.8  | 6619.3  | 6438.3 | 5821.7 | 5014.2 | 4437.4 | 4021.7 | 3820.8 | 3771.1 | 3773.1 | 3779.1 |
| 30°   | 7601.9  | 7410.9  | 6967.4 | 5835.7 | 4799.4 | 4043.6 | 3655.7 | 3512.5 | 3488.7 | 3498.6 | 3532.4 |
| 32.5° | 8423.3  | 8242.3  | 7508.4 | 5772.0 | 4469.2 | 3657.7 | 3327.6 | 3232.1 | 3196.3 | 3208.2 | 3224.1 |
| 35°   | 9067.7  | 9018.0  | 8009.6 | 5682.5 | 4063.5 | 3295.7 | 3033.2 | 2951.6 | 2882.0 | 2866.1 | 2878.0 |
| 37.5° | 9676.4  | 9656.5  | 8385.5 | 5557.2 | 3661.7 | 3039.2 | 2796.5 | 2689.1 | 2587.7 | 2532.0 | 2534.0 |
| 40°   | 10344.7 | 10324.8 | 8632.2 | 5364.3 | 3305.7 | 2816.4 | 2583.7 | 2442.5 | 2317.2 | 2215.7 | 2225.7 |
| 42.5° | 11096.5 | 10979.2 | 8749.5 | 5087.8 | 3003.4 | 2627.4 | 2410.6 | 2219.7 | 2054.6 | 1961.1 | 1967.1 |
| 45°   | 11918.0 | 11653.4 | 8747.5 | 4735.8 | 2748.8 | 2454.4 | 2225.7 | 1955.2 | 1802.0 | 1714.5 | 1710.5 |
| 47.5° | 12789.1 | 12297.8 | 8640.1 | 4345.9 | 2502.1 | 2263.5 | 1939.3 | 1732.4 | 1631.0 | 1577.3 | 1565.3 |
| 50°   | 13688.1 | 12900.5 | 8457.1 | 3898.4 | 2249.5 | 2046.7 | 1760.2 | 1619.0 | 1541.5 | 1491.7 | 1473.8 |
| 52.5° | 14533.5 | 13447.5 | 8236.4 | 3391.2 | 1993.0 | 1835.8 | 1680.7 | 1571.3 | 1489.7 | 1434.1 | 1410.2 |
| 55°   | 15319.1 | 13918.9 | 7924.1 | 2872.1 | 1784.1 | 1694.6 | 1642.9 | 1551.4 | 1457.9 | 1392.3 | 1366.4 |
| 57.5° | 16017.2 | 14225.2 | 7385.1 | 2384.8 | 1634.9 | 1597.1 | 1603.1 | 1517.6 | 1410.2 | 1354.5 | 1318.7 |
| 60°   | 16598.0 | 14449.9 | 6587.5 | 1933.3 | 1513.6 | 1501.7 | 1541.5 | 1453.9 | 1328.6 | 1265.0 | 1237.1 |
| 62.5° | 16946.1 | 14445.9 | 5608.9 | 1583.2 | 1410.2 | 1414.2 | 1459.9 | 1374.4 | 1247.1 | 1187.4 | 1169.5 |
| 65°   | 16916.3 | 14091.9 | 4534.9 | 1354.5 | 1310.7 | 1314.7 | 1374.4 | 1286.9 | 1179.5 | 1143.7 | 1141.7 |
| 67.5° | 16317.6 | 13228.7 | 3478.7 | 1205.3 | 1201.3 | 1219.2 | 1288.9 | 1227.2 | 1137.7 | 1133.7 | 1139.7 |
| 70°   | 14696.6 | 11436.6 | 2506.1 | 1086.0 | 1088.0 | 1113.8 | 1205.3 | 1189.4 | 1115.8 | 1123.8 | 1121.8 |
| 72.5° | 11784.7 | 8719.7  | 1682.7 | 960.7  | 962.7  | 1004.4 | 1125.8 | 1159.6 | 1093.9 | 1199.4 | 1215.3 |
| 75°   | 7848.5  | 5437.9  | 1082.0 | 827.4  | 829.4  | 883.1  | 1056.1 | 1101.9 | 1034.3 | 1195.4 | 1205.3 |
| 77.5° | 3771.1  | 2444.5  | 783.7  | 696.1  | 696.1  | 745.9  | 912.9  | 986.5  | 881.1  | 928.9  | 851.3  |
| 80°   | 1302.8  | 918.9   | 616.6  | 560.9  | 549.0  | 582.8  | 769.7  | 855.3  | 759.8  | 700.1  | 656.4  |
| 82.5° | 513.2   | 477.4   | 495.3  | 435.6  | 395.8  | 417.7  | 598.7  | 706.1  | 558.9  | 505.2  | 503.2  |
| 85°   | 294.4   | 310.3   | 350.1  | 288.4  | 228.7  | 256.6  | 439.6  | 507.2  | 421.7  | 371.9  | 379.9  |
| 87.5° | 79.6    | 109.4   | 161.1  | 149.2  | 103.4  | 109.4  | 208.8  | 280.4  | 242.7  | 187.0  | 192.9  |
| 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)