

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: P533260

Luminaire Tested: **GALN-SA8C-830-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533260  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA8C-830-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39643 lumens  
Efficiency: N/A  
Efficacy: 92.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

Input Watts (W): 429  
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



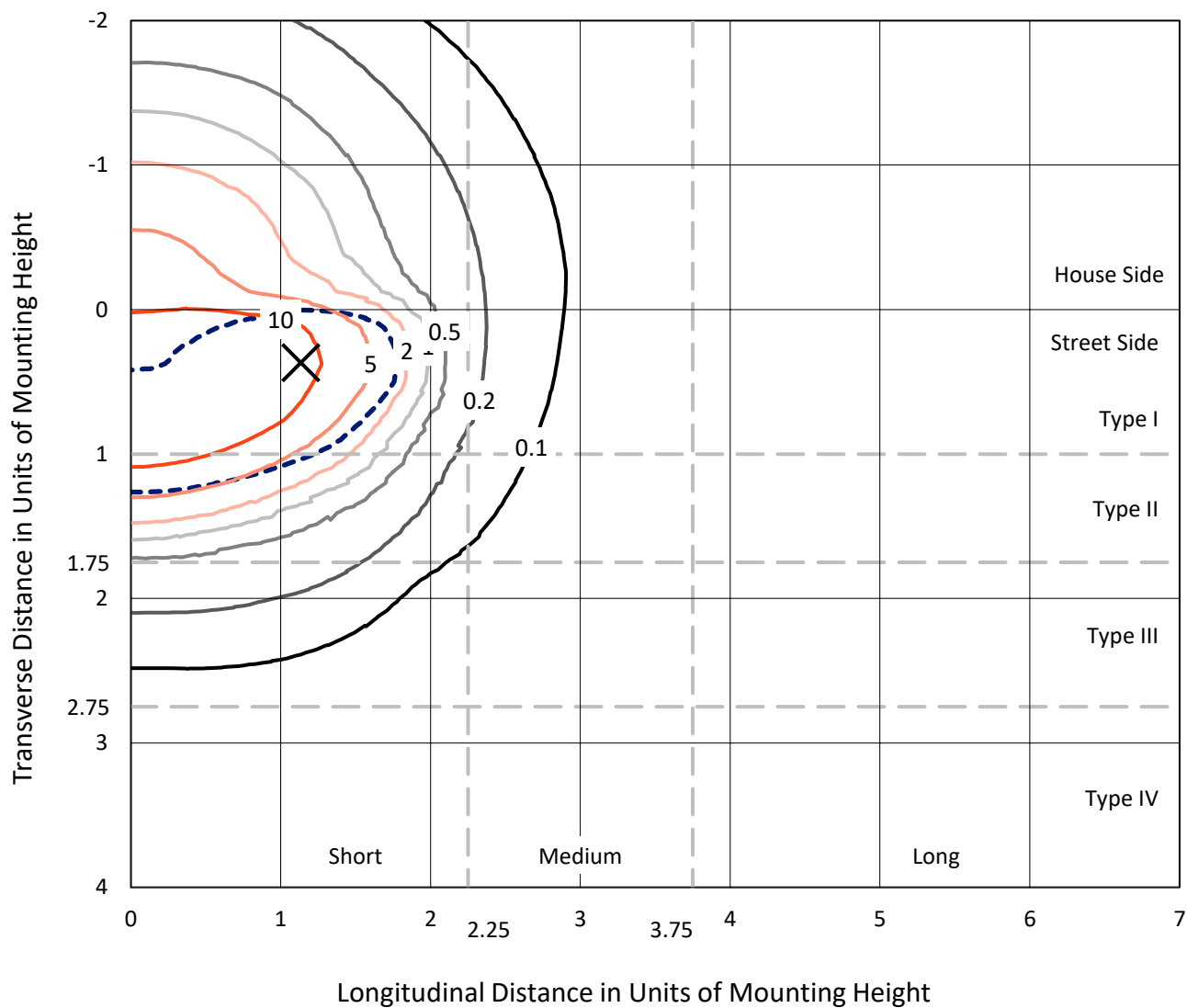
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

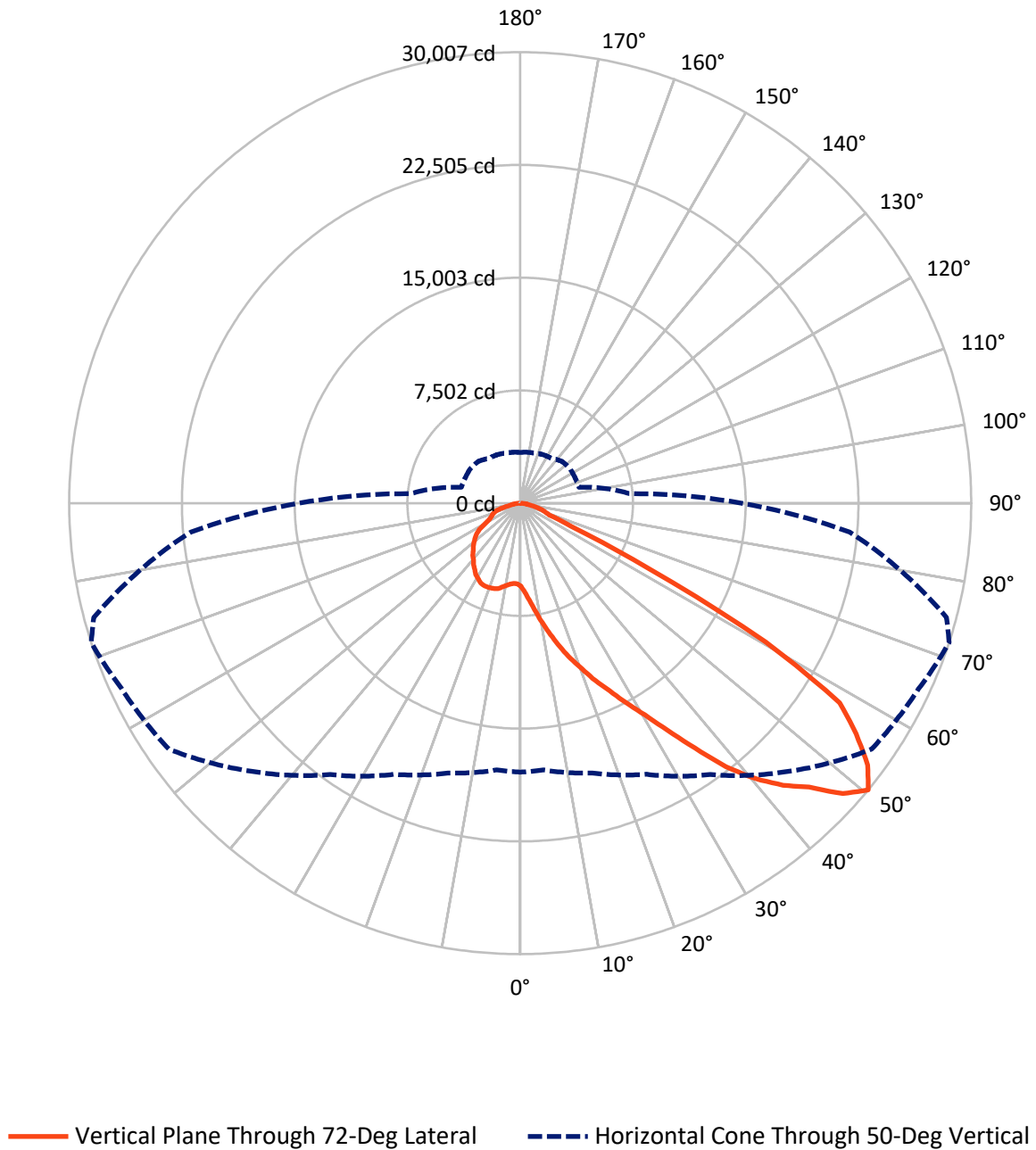
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.7 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9082.4   | 0.0    | 9082.4  |
|                    | % Fixture | 22.9     | 0.0    | 22.9    |
| <b>Street Side</b> | Lumens    | 30560.6  | 0.0    | 30560.6 |
|                    | % Fixture | 77.1     | 0.0    | 77.1    |
| <b>Total</b>       | Lumens    | 39643.0  | 0.0    | 39643.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 649.1   | 1.6       |
| 10°-20°   | 2426.7  | 6.1       |
| 20°-30°   | 4705.2  | 11.9      |
| 30°-40°   | 7794.8  | 19.7      |
| 40°-50°   | 10906.6 | 27.5      |
| 50°-60°   | 9201.1  | 23.2      |
| 60°-70°   | 2804.5  | 7.1       |
| 70°-80°   | 983.9   | 2.5       |
| 80°-90°   | 171.0   | 0.4       |
| 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°    | 39643.0 | 100.0     |
| 0°-180°   | 39643.0 | 100.0     |

**Coefficient of Utilization**



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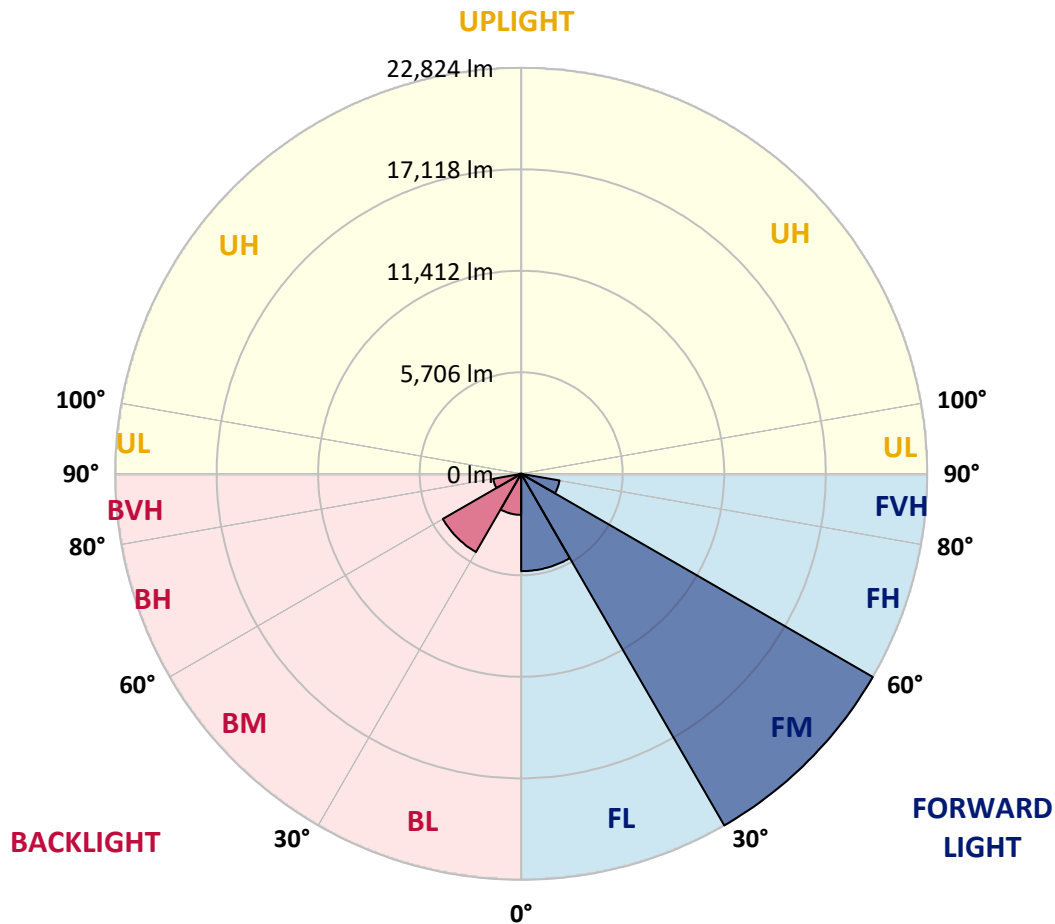
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 5472.2  | 13.8      |                         |      |         |
| FM   | (30°-60°)   | 22823.5 | 57.6      |                         |      |         |
| FH   | (60°-80°)   | 2188.2  | 5.5       |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 76.6    | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 2308.8  | 5.8       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 5079.0  | 12.8      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 1600.2  | 4.0       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 94.4    | 0.2       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 72°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5518.6  | 5518.6  | 5518.6  | 5518.6  | 5518.6  | 5518.6  | 5518.6  | 5518.6  | 5518.6  | 5518.6  | 5518.6  |
| 2.5°  | 7098.2  | 7054.1  | 6921.6  | 6877.5  | 6720.5  | 6436.0  | 6337.9  | 6048.4  | 5925.8  | 5813.0  | 5680.5  |
| 5°    | 8977.0  | 8771.0  | 8756.2  | 8506.1  | 8143.1  | 7932.1  | 7304.2  | 6882.4  | 6494.8  | 6298.6  | 5935.6  |
| 7.5°  | 10173.9 | 10178.8 | 10178.8 | 9972.8  | 9683.4  | 9148.7  | 8584.6  | 7824.2  | 7240.5  | 6951.0  | 6333.0  |
| 10°   | 11312.0 | 11213.9 | 11159.9 | 11140.3 | 10944.1 | 10424.1 | 9820.7  | 8878.9  | 8079.3  | 7740.8  | 6632.2  |
| 12.5° | 12116.5 | 12033.1 | 12155.7 | 12092.0 | 11949.7 | 11611.2 | 11042.2 | 9967.9  | 8967.2  | 8511.0  | 7112.9  |
| 15°   | 12499.1 | 12558.0 | 12656.1 | 12832.7 | 12768.9 | 12641.4 | 12013.5 | 11086.3 | 9923.7  | 9408.7  | 7539.7  |
| 17.5° | 13087.8 | 12925.9 | 13043.6 | 13264.4 | 13441.0 | 13382.1 | 13024.0 | 11895.7 | 10870.5 | 10237.7 | 8113.6  |
| 20°   | 13499.8 | 13406.6 | 13465.5 | 13720.6 | 13853.0 | 14186.6 | 14000.2 | 12955.3 | 11778.0 | 11110.9 | 8790.6  |
| 22.5° | 14677.1 | 14539.8 | 14348.5 | 14387.7 | 14436.8 | 14672.2 | 14716.4 | 14117.9 | 12832.7 | 12126.3 | 9433.2  |
| 25°   | 16129.2 | 16001.6 | 15776.0 | 15545.4 | 15403.1 | 15359.0 | 15511.1 | 15030.3 | 13843.2 | 13112.3 | 10124.9 |
| 27.5° | 17728.3 | 17512.5 | 17370.2 | 16894.4 | 16511.8 | 16452.9 | 16379.3 | 16119.3 | 15040.1 | 14250.4 | 10904.8 |
| 30°   | 19283.4 | 19111.7 | 18920.4 | 18160.0 | 17762.7 | 17698.9 | 17335.9 | 17409.5 | 16340.1 | 15462.0 | 11787.8 |
| 32.5° | 20460.7 | 20475.4 | 20038.8 | 19464.9 | 19092.1 | 18753.6 | 18621.1 | 18832.1 | 18007.9 | 17301.6 | 12773.8 |
| 35°   | 21412.3 | 21456.5 | 21039.5 | 20519.5 | 20117.3 | 20352.8 | 20293.9 | 20392.0 | 19999.6 | 19136.2 | 13921.7 |
| 37.5° | 22339.5 | 22118.7 | 21672.3 | 21422.1 | 21211.2 | 21598.7 | 22099.1 | 22182.5 | 22256.1 | 21240.6 | 15256.0 |
| 40°   | 22491.5 | 22511.2 | 22251.2 | 22427.8 | 22162.9 | 22746.6 | 23909.2 | 23801.3 | 24100.5 | 23212.6 | 16703.1 |
| 42.5° | 22275.7 | 22319.8 | 22422.9 | 22673.0 | 23310.8 | 24012.2 | 25739.0 | 25297.5 | 25660.5 | 24870.7 | 18111.0 |
| 45°   | 21922.5 | 21741.0 | 21868.5 | 22820.2 | 23923.9 | 25483.9 | 27411.7 | 27068.3 | 26950.6 | 26288.4 | 19788.6 |
| 47.5° | 20235.0 | 20421.4 | 20818.8 | 21991.2 | 23649.2 | 25739.0 | 28598.8 | 28520.4 | 28873.5 | 28407.5 | 21314.2 |
| 50°   | 17895.1 | 17821.5 | 18586.8 | 19906.4 | 22045.1 | 25238.6 | 28535.1 | 29246.4 | 30006.7 | 29359.2 | 21996.1 |
| 52.5° | 13401.7 | 13794.2 | 14451.5 | 16089.9 | 19141.1 | 22511.2 | 27141.9 | 28329.0 | 28947.1 | 28809.8 | 21446.7 |
| 55°   | 8471.7  | 8589.5  | 8986.8  | 10934.3 | 13681.3 | 18066.8 | 23266.6 | 26018.6 | 27122.3 | 27637.4 | 20941.4 |
| 57.5° | 4115.7  | 3894.9  | 4380.6  | 5945.4  | 7902.7  | 12150.8 | 17944.2 | 22663.2 | 25062.0 | 25994.0 | 19842.6 |
| 60°   | 2148.6  | 2232.0  | 2423.3  | 2982.5  | 4086.2  | 6308.4  | 11184.5 | 15103.9 | 18768.3 | 20200.7 | 15040.1 |
| 62.5° | 1780.7  | 1810.1  | 1937.7  | 2217.3  | 2717.6  | 3630.0  | 5710.0  | 7363.1  | 9570.6  | 10860.7 | 8555.1  |
| 65°   | 1510.9  | 1525.6  | 1663.0  | 1849.4  | 2168.2  | 2555.7  | 2938.4  | 3075.7  | 3723.2  | 3821.4  | 3041.4  |
| 67.5° | 1260.7  | 1275.4  | 1422.6  | 1599.2  | 1805.2  | 1908.2  | 2006.3  | 1996.5  | 2070.1  | 2040.7  | 2035.8  |
| 70°   | 971.3   | 986.0   | 1138.1  | 1324.5  | 1427.5  | 1368.6  | 1672.8  | 1741.4  | 1770.9  | 1795.4  | 1834.6  |
| 72.5° | 701.5   | 730.9   | 848.6   | 981.1   | 927.1   | 1064.5  | 1378.4  | 1481.4  | 1520.7  | 1535.4  | 1584.5  |
| 75°   | 510.2   | 520.0   | 549.4   | 510.2   | 588.7   | 740.7   | 971.3   | 1098.8  | 1147.9  | 1162.6  | 1236.2  |
| 77.5° | 225.7   | 230.6   | 235.5   | 294.3   | 377.7   | 461.1   | 578.8   | 681.9   | 750.5   | 770.2   | 789.8   |
| 80°   | 117.7   | 122.6   | 152.1   | 201.1   | 269.8   | 338.5   | 421.9   | 480.7   | 524.9   | 529.8   | 549.4   |
| 82.5° | 73.6    | 78.5    | 107.9   | 142.3   | 191.3   | 250.2   | 309.0   | 358.1   | 392.4   | 397.3   | 402.2   |
| 85°   | 34.3    | 44.1    | 63.8    | 88.3    | 127.5   | 161.9   | 166.8   | 142.3   | 152.1   | 157.0   | 147.2   |
| 87.5° | 9.8     | 14.7    | 19.6    | 14.7    | 19.6    | 19.6    | 24.5    | 29.4    | 29.4    | 29.4    | 34.3    |
| 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°    | 5518.6  | 5518.6 | 5518.6 | 5518.6 | 5518.6 | 5518.6 | 5518.6 | 5518.6 | 5518.6 | 5518.6 | 5518.6 |
| 2.5°  | 5606.9  | 5562.8 | 5391.1 | 5327.3 | 5160.5 | 5190.0 | 5101.7 | 5096.8 | 5077.2 | 5072.2 | 5067.3 |
| 5°    | 5744.3  | 5606.9 | 5400.9 | 5243.9 | 5150.7 | 5140.9 | 5077.2 | 5077.2 | 5096.8 | 5111.5 | 5077.2 |
| 7.5°  | 5969.9  | 5813.0 | 5464.7 | 5317.5 | 5234.1 | 5219.4 | 5175.3 | 5140.9 | 5185.1 | 5170.4 | 5131.1 |
| 10°   | 6229.9  | 5955.2 | 5587.3 | 5459.8 | 5322.4 | 5288.1 | 5288.1 | 5302.8 | 5229.2 | 5253.7 | 5214.5 |
| 12.5° | 6519.4  | 6151.4 | 5744.3 | 5597.1 | 5435.3 | 5415.6 | 5405.8 | 5297.9 | 5337.1 | 5317.5 | 5219.4 |
| 15°   | 6887.3  | 6377.1 | 5945.4 | 5695.2 | 5557.9 | 5469.6 | 5342.0 | 5322.4 | 5297.9 | 5248.8 | 5204.7 |
| 17.5° | 7284.6  | 6622.4 | 6038.6 | 5724.7 | 5518.6 | 5454.9 | 5356.8 | 5253.7 | 5180.2 | 5190.0 | 5155.6 |
| 20°   | 7623.1  | 6848.0 | 6073.0 | 5754.1 | 5489.2 | 5366.6 | 5214.5 | 5150.7 | 5072.2 | 5067.3 | 5062.4 |
| 22.5° | 8025.3  | 7152.2 | 6122.0 | 5675.6 | 5400.9 | 5273.4 | 5170.4 | 5057.5 | 5003.6 | 4934.9 | 4969.2 |
| 25°   | 8506.1  | 7269.9 | 6131.8 | 5631.5 | 5337.1 | 5111.5 | 5057.5 | 4934.9 | 4915.3 | 4817.2 | 4836.8 |
| 27.5° | 8854.4  | 7333.7 | 6053.3 | 5494.1 | 5190.0 | 5018.3 | 4920.2 | 4831.9 | 4797.5 | 4724.0 | 4704.3 |
| 30°   | 9320.4  | 7431.8 | 5886.6 | 5322.4 | 5042.8 | 4851.5 | 4792.6 | 4773.0 | 4674.9 | 4596.4 | 4586.6 |
| 32.5° | 9850.2  | 7495.5 | 5778.6 | 5145.8 | 4890.7 | 4743.6 | 4773.0 | 4679.8 | 4557.2 | 4488.5 | 4468.9 |
| 35°   | 10272.0 | 7520.1 | 5508.8 | 4944.7 | 4787.7 | 4694.5 | 4660.2 | 4640.6 | 4464.0 | 4400.2 | 4351.1 |
| 37.5° | 10914.7 | 7466.1 | 5283.2 | 4802.4 | 4674.9 | 4640.6 | 4611.1 | 4478.7 | 4277.6 | 4184.4 | 4115.7 |
| 40°   | 11665.2 | 7451.4 | 4993.8 | 4601.3 | 4567.0 | 4606.2 | 4517.9 | 4311.9 | 4032.3 | 3929.3 | 3880.2 |
| 42.5° | 12386.3 | 7554.4 | 4812.3 | 4493.4 | 4449.3 | 4464.0 | 4341.3 | 4032.3 | 3894.9 | 3836.1 | 3757.6 |
| 45°   | 13593.0 | 7770.3 | 4513.0 | 4326.6 | 4307.0 | 4297.2 | 4150.0 | 3826.3 | 3747.8 | 3674.2 | 3659.5 |
| 47.5° | 14682.0 | 7628.0 | 4321.7 | 4154.9 | 4174.5 | 4120.6 | 3806.6 | 3703.6 | 3615.3 | 3541.7 | 3517.2 |
| 50°   | 14745.8 | 7289.5 | 4051.9 | 4022.5 | 4027.4 | 3934.2 | 3634.9 | 3566.3 | 3453.4 | 3404.4 | 3370.1 |
| 52.5° | 14412.2 | 6735.2 | 3801.7 | 3811.5 | 3826.3 | 3674.2 | 3424.0 | 3375.0 | 3281.8 | 3213.1 | 3193.5 |
| 55°   | 13475.3 | 5871.8 | 3556.5 | 3595.7 | 3634.9 | 3345.5 | 3267.0 | 3144.4 | 3070.8 | 2972.7 | 2977.6 |
| 57.5° | 11871.2 | 4728.9 | 3213.1 | 3276.8 | 3360.2 | 3041.4 | 2982.5 | 2830.5 | 2722.5 | 2644.0 | 2634.2 |
| 60°   | 7956.7  | 3365.1 | 2698.0 | 2722.5 | 2908.9 | 2781.4 | 2776.5 | 2624.4 | 2477.3 | 2408.6 | 2369.3 |
| 62.5° | 4694.5  | 2570.5 | 2330.1 | 2305.6 | 2300.7 | 2374.2 | 2496.9 | 2442.9 | 2251.6 | 2119.2 | 2158.4 |
| 65°   | 2457.6  | 2222.2 | 2168.2 | 2084.8 | 2035.8 | 2016.1 | 2109.3 | 2133.9 | 2006.3 | 1864.1 | 1854.3 |
| 67.5° | 2065.2  | 2065.2 | 2021.0 | 1991.6 | 1922.9 | 1839.5 | 1780.7 | 1702.2 | 1682.6 | 1643.3 | 1594.3 |
| 70°   | 1878.8  | 1927.8 | 1913.1 | 1844.5 | 1785.6 | 1692.4 | 1540.3 | 1412.8 | 1290.1 | 1246.0 | 1275.4 |
| 72.5° | 1638.4  | 1687.5 | 1687.5 | 1653.1 | 1574.7 | 1432.4 | 1285.2 | 1138.1 | 1035.1 | 956.6  | 946.8  |
| 75°   | 1260.7  | 1285.2 | 1344.1 | 1304.9 | 1201.8 | 1113.5 | 961.5  | 809.4  | 711.3  | 637.7  | 623.0  |
| 77.5° | 804.5   | 843.7  | 843.7  | 838.8  | 765.3  | 681.9  | 583.7  | 475.8  | 402.2  | 348.3  | 333.6  |
| 80°   | 534.7   | 559.2  | 578.8  | 559.2  | 510.2  | 446.4  | 372.8  | 299.2  | 245.3  | 201.1  | 191.3  |
| 82.5° | 392.4   | 421.9  | 436.6  | 417.0  | 367.9  | 318.9  | 264.9  | 210.9  | 157.0  | 122.6  | 112.8  |
| 85°   | 152.1   | 157.0  | 176.6  | 210.9  | 206.0  | 201.1  | 161.9  | 117.7  | 88.3   | 63.8   | 58.9   |
| 87.5° | 39.2    | 34.3   | 39.2   | 39.2   | 34.3   | 29.4   | 29.4   | 29.4   | 29.4   | 14.7   | 19.6   |
| 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)