

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: P531846

Luminaire Tested: **GALN-SA7A-830-U-SL2-GRSWH**

Issue Date: 5/27/2021

#### Test Information

Test Method: LM-79-08  
Report Number: P531846  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA7A-830-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 21453 lumens  
Efficiency: N/A  
Efficacy: 99.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 215  
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



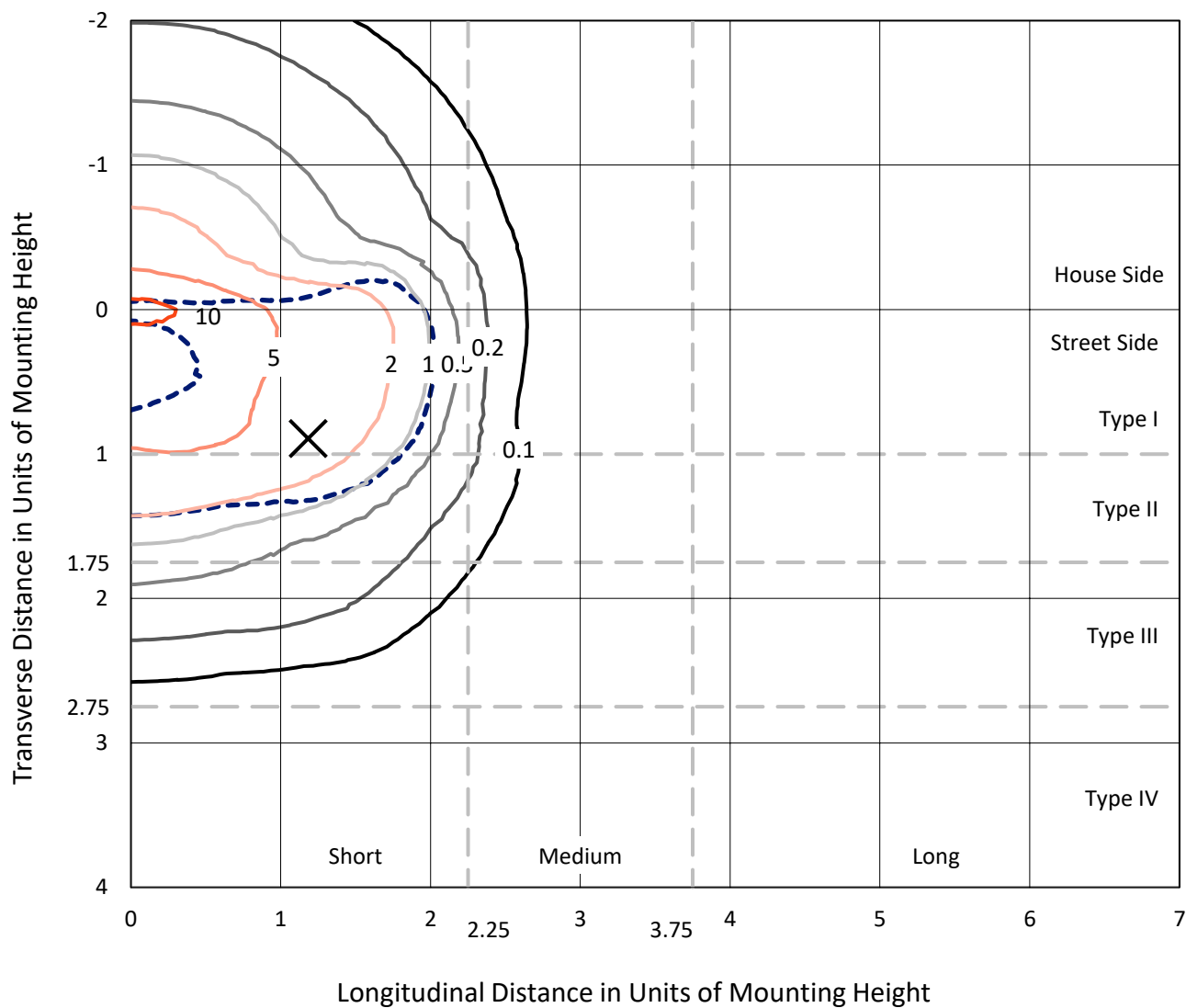
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

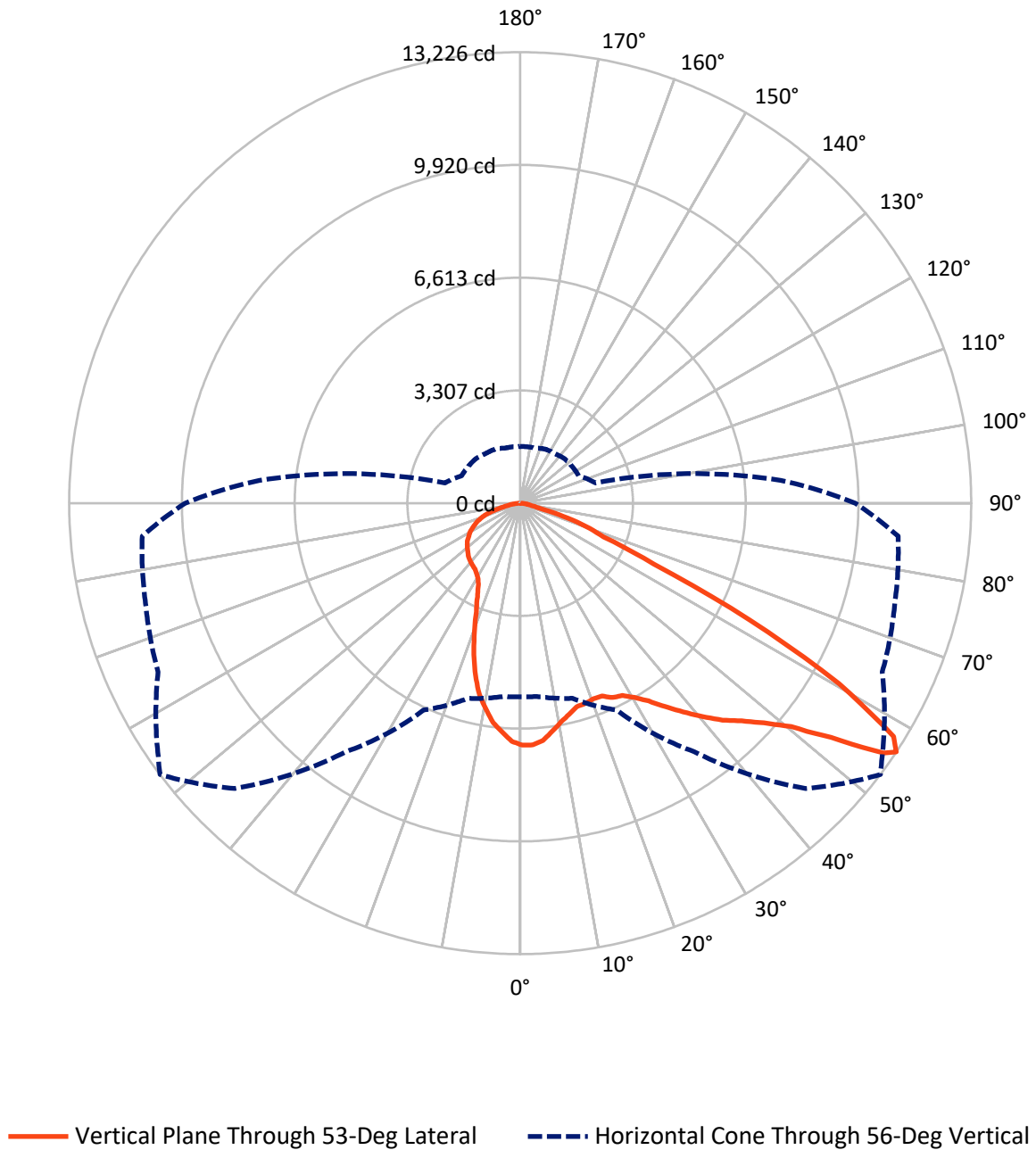


Based on 25 foot mounting height. Maximum calculated value = 11.4 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6260.4   | 0.0    | 6260.4  |
|                    | % Fixture | 29.2     | 0.0    | 29.2    |
| <b>Street Side</b> | Lumens    | 15192.6  | 0.0    | 15192.6 |
|                    | % Fixture | 70.8     | 0.0    | 70.8    |
| <b>Total</b>       | Lumens    | 21453.0  | 0.0    | 21453.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 628.3   | 2.9       |
| 10°-20°   | 1569.3  | 7.3       |
| 20°-30°   | 2314.1  | 10.8      |
| 30°-40°   | 3306.4  | 15.4      |
| 40°-50°   | 4550.7  | 21.2      |
| 50°-60°   | 5377.8  | 25.1      |
| 60°-70°   | 2866.0  | 13.4      |
| 70°-80°   | 727.1   | 3.4       |
| 80°-90°   | 113.4   | 0.5       |
| 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°    | 21453.0 | 100.0     |
| 0°-180°   | 21453.0 | 100.0     |

**Coefficient of Utilization**



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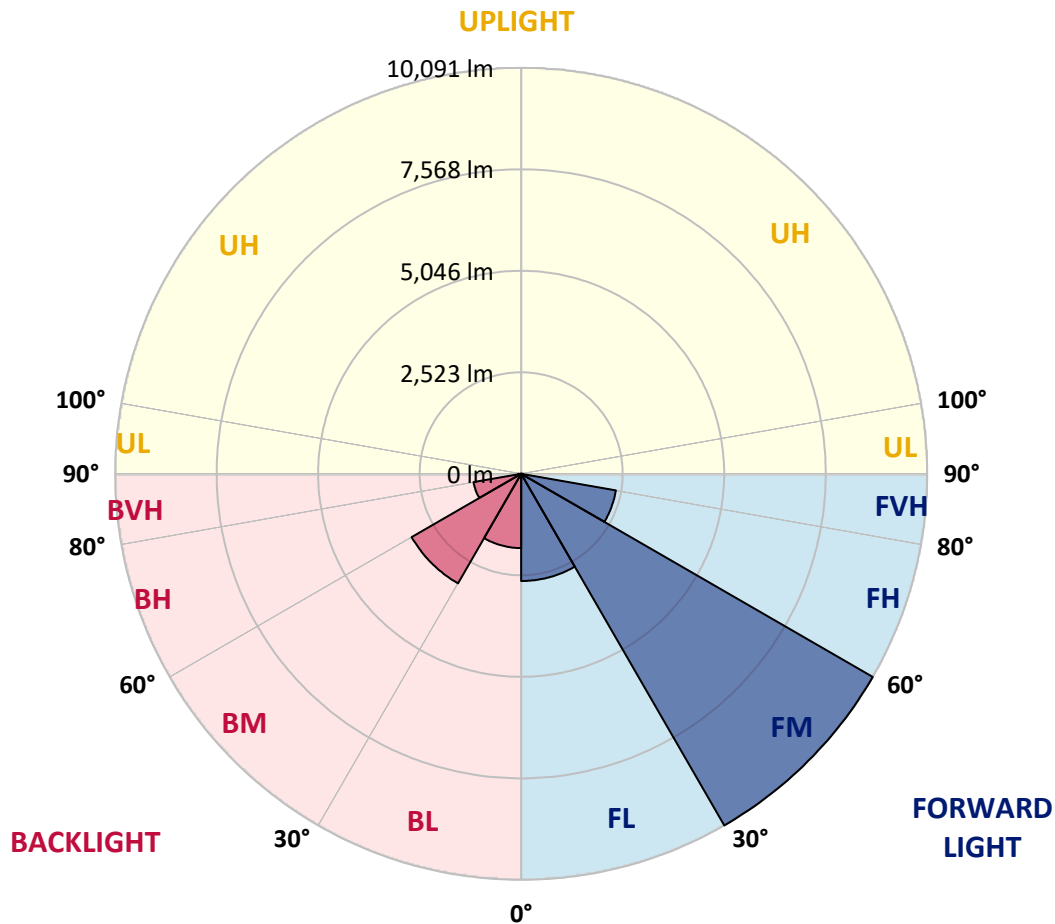
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2665.2  | 12.4      |                         |      |         |
| FM   | (30°-60°)   | 10091.1 | 47.0      |                         |      |         |
| FH   | (60°-80°)   | 2390.7  | 11.1      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 45.6    | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1846.5  | 8.6       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 3143.8  | 14.7      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1202.4  | 5.6       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 67.8    | 0.3       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°     | 35°     | 45°     | 53°     | 55°     | 65°     | 75°     | 85°     |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7097.5 | 7097.5 | 7097.5 | 7097.5  | 7097.5  | 7097.5  | 7097.5  | 7097.5  | 7097.5  | 7097.5  | 7097.5  |
| 2.5°  | 7009.4 | 6948.9 | 6984.7 | 6970.9  | 7083.7  | 7116.8  | 7100.2  | 7114.0  | 7177.3  | 7147.0  | 7083.7  |
| 5°    | 6549.8 | 6635.2 | 6651.7 | 6692.9  | 6759.0  | 6888.3  | 6990.2  | 7017.7  | 7048.0  | 7188.3  | 7174.6  |
| 7.5°  | 6131.5 | 6189.3 | 6159.1 | 6280.1  | 6423.2  | 6632.4  | 6756.2  | 6778.3  | 7056.2  | 7133.3  | 7191.1  |
| 10°   | 5867.3 | 5809.5 | 5947.1 | 5980.2  | 6142.5  | 6382.0  | 6530.6  | 6621.4  | 6874.6  | 7180.1  | 7215.8  |
| 12.5° | 5622.4 | 5603.1 | 5685.7 | 5779.3  | 5960.9  | 6208.6  | 6360.0  | 6395.7  | 6786.5  | 7108.5  | 7276.4  |
| 15°   | 5440.8 | 5418.8 | 5501.3 | 5570.1  | 5782.0  | 6002.2  | 6194.8  | 6296.7  | 6690.2  | 7067.2  | 7224.1  |
| 17.5° | 5297.7 | 5294.9 | 5341.7 | 5465.5  | 5683.0  | 5867.3  | 6178.3  | 6183.8  | 6640.7  | 7130.5  | 7268.1  |
| 20°   | 5289.4 | 5286.7 | 5294.9 | 5432.5  | 5630.7  | 5856.3  | 6126.0  | 6175.6  | 6640.7  | 7086.5  | 7270.9  |
| 22.5° | 5358.2 | 5314.2 | 5363.7 | 5451.8  | 5594.9  | 5875.6  | 6145.3  | 6255.4  | 6800.3  | 7303.9  | 7394.7  |
| 25°   | 5468.3 | 5479.3 | 5506.8 | 5537.1  | 5619.7  | 5919.6  | 6315.9  | 6406.7  | 6987.4  | 7491.0  | 7565.3  |
| 27.5° | 5669.2 | 5663.7 | 5674.7 | 5691.2  | 5762.8  | 5960.9  | 6384.7  | 6618.6  | 7378.2  | 7824.0  | 7749.7  |
| 30°   | 5963.7 | 5944.4 | 5988.4 | 6046.2  | 5980.2  | 6093.0  | 6613.1  | 6789.3  | 7741.5  | 8159.8  | 7956.1  |
| 32.5° | 6230.6 | 6302.2 | 6384.7 | 6409.5  | 6329.7  | 6351.7  | 6915.9  | 7094.7  | 8044.2  | 8572.6  | 8209.3  |
| 35°   | 6563.6 | 6621.4 | 6731.5 | 6808.5  | 6794.8  | 6728.7  | 7328.7  | 7565.3  | 8481.8  | 8875.3  | 8476.3  |
| 37.5° | 6888.3 | 6957.1 | 7138.8 | 7367.2  | 7240.6  | 7210.3  | 7769.0  | 7964.4  | 8616.6  | 9037.7  | 8671.7  |
| 40°   | 7411.2 | 7408.5 | 7722.2 | 7840.5  | 7953.4  | 7901.1  | 8225.8  | 8291.9  | 8688.2  | 9001.9  | 8677.2  |
| 42.5° | 8024.9 | 7986.4 | 8305.6 | 8490.0  | 8635.9  | 8641.4  | 8701.9  | 8679.9  | 8721.2  | 8820.3  | 8619.4  |
| 45°   | 8608.4 | 8690.9 | 9012.9 | 9343.2  | 9489.0  | 9505.5  | 9103.7  | 9062.5  | 8779.0  | 8768.0  | 8509.3  |
| 47.5° | 9321.1 | 9340.4 | 9604.6 | 10039.4 | 10377.9 | 10262.3 | 9623.9  | 9533.0  | 9032.2  | 9117.5  | 8693.7  |
| 50°   | 9362.4 | 9505.5 | 9742.2 | 10254.1 | 11294.4 | 11264.1 | 10298.1 | 10127.5 | 9439.5  | 9612.9  | 9208.3  |
| 52.5° | 8498.3 | 8465.3 | 8746.0 | 9582.6  | 11225.6 | 12260.3 | 11415.4 | 11008.1 | 10314.6 | 10182.5 | 10042.2 |
| 55°   | 6475.5 | 6552.6 | 6800.3 | 7645.2  | 9747.7  | 12274.1 | 12937.3 | 12604.3 | 11250.3 | 11024.7 | 10862.3 |
| 56°   | 5680.2 | 5691.2 | 5925.1 | 6695.7  | 8894.6  | 11836.5 | 13226.3 | 12956.6 | 11715.4 | 11371.4 | 11123.7 |
| 57.5° | 4708.7 | 4645.4 | 4766.5 | 5187.6  | 7507.6  | 10911.8 | 12909.8 | 13174.0 | 12260.3 | 11745.7 | 11401.7 |
| 60°   | 3707.0 | 3693.2 | 3643.7 | 3720.8  | 4744.5  | 8220.3  | 10746.7 | 11341.1 | 12205.3 | 11393.4 | 10920.1 |
| 62.5° | 3027.2 | 2958.4 | 3057.5 | 3167.6  | 3296.9  | 5099.5  | 7551.6  | 7901.1  | 9689.9  | 9095.5  | 8203.8  |
| 65°   | 2347.5 | 2314.5 | 2438.3 | 2796.1  | 2873.1  | 3239.1  | 4301.4  | 4571.1  | 5721.5  | 5619.7  | 4948.2  |
| 67.5° | 1615.4 | 1620.9 | 1728.3 | 2273.2  | 2664.0  | 2630.9  | 2633.7  | 2774.1  | 2986.0  | 2218.1  | 1931.9  |
| 70°   | 1023.8 | 1021.0 | 1078.8 | 1464.1  | 2143.8  | 2165.9  | 2055.8  | 2014.5  | 1909.9  | 1155.9  | 1224.7  |
| 72.5° | 657.7  | 638.5  | 668.7  | 809.1   | 1109.1  | 1282.4  | 1321.0  | 1345.7  | 1106.3  | 908.2   | 985.2   |
| 75°   | 371.5  | 352.3  | 341.3  | 377.0   | 437.6   | 506.4   | 555.9   | 572.4   | 641.2   | 688.0   | 729.3   |
| 77.5° | 112.8  | 101.8  | 123.8  | 165.1   | 217.4   | 291.7   | 355.0   | 366.0   | 432.1   | 487.1   | 528.4   |
| 80°   | 49.5   | 55.0   | 77.1   | 110.1   | 154.1   | 206.4   | 250.4   | 266.9   | 311.0   | 352.3   | 363.3   |
| 82.5° | 30.3   | 33.0   | 52.3   | 74.3    | 107.3   | 145.9   | 178.9   | 184.4   | 228.4   | 261.4   | 269.7   |
| 85°   | 11.0   | 13.8   | 27.5   | 44.0    | 68.8    | 93.6    | 93.6    | 101.8   | 93.6    | 93.6    | 101.8   |
| 87.5° | 0.0    | 0.0    | 2.8    | 5.5     | 5.5     | 8.3     | 11.0    | 11.0    | 13.8    | 16.5    | 19.3    |
| 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°    | 7097.5  | 7097.5 | 7097.5 | 7097.5 | 7097.5 | 7097.5 | 7097.5 | 7097.5 | 7097.5 | 7097.5 | 7097.5 |
| 2.5°  | 7116.8  | 7103.0 | 7081.0 | 7001.2 | 6992.9 | 6968.2 | 6830.6 | 6808.5 | 6830.6 | 6764.5 | 6770.0 |
| 5°    | 7103.0  | 7144.3 | 6979.2 | 6899.4 | 6750.7 | 6643.4 | 6519.6 | 6456.3 | 6343.4 | 6271.9 | 6351.7 |
| 7.5°  | 7163.5  | 7147.0 | 6940.6 | 6767.3 | 6544.3 | 6271.9 | 6054.5 | 5930.6 | 5732.5 | 5677.4 | 5718.7 |
| 10°   | 7141.5  | 7053.5 | 6811.3 | 6582.9 | 6161.8 | 5922.4 | 5570.1 | 5228.9 | 5041.7 | 4945.4 | 4931.6 |
| 12.5° | 7111.3  | 7086.5 | 6681.9 | 6288.4 | 5845.3 | 5341.7 | 4846.3 | 4524.3 | 4218.9 | 4086.8 | 4106.0 |
| 15°   | 7147.0  | 6937.9 | 6439.8 | 5941.6 | 5352.7 | 4692.2 | 4158.3 | 3742.8 | 3530.9 | 3445.5 | 3445.5 |
| 17.5° | 7130.5  | 6866.3 | 6324.2 | 5553.6 | 4807.8 | 4026.2 | 3440.0 | 3189.6 | 3101.5 | 3101.5 | 3126.3 |
| 20°   | 7138.8  | 6913.1 | 6090.3 | 5165.6 | 4163.8 | 3390.5 | 2963.9 | 2873.1 | 2911.7 | 2925.4 | 2939.2 |
| 22.5° | 7185.6  | 6759.0 | 5861.8 | 4739.0 | 3566.6 | 2900.6 | 2691.5 | 2694.2 | 2763.0 | 2837.3 | 2823.6 |
| 25°   | 7243.4  | 6698.5 | 5583.9 | 4315.2 | 3109.8 | 2661.2 | 2595.2 | 2586.9 | 2639.2 | 2677.7 | 2683.2 |
| 27.5° | 7193.8  | 6593.9 | 5300.4 | 3786.8 | 2735.5 | 2501.6 | 2487.8 | 2493.3 | 2509.9 | 2586.9 | 2562.1 |
| 30°   | 7356.2  | 6624.1 | 4945.4 | 3343.7 | 2529.1 | 2449.3 | 2432.8 | 2424.5 | 2449.3 | 2471.3 | 2452.1 |
| 32.5° | 7557.1  | 6516.8 | 4681.2 | 2917.2 | 2427.3 | 2410.8 | 2377.8 | 2366.7 | 2380.5 | 2358.5 | 2369.5 |
| 35°   | 7645.2  | 6497.6 | 4337.2 | 2611.7 | 2347.5 | 2333.7 | 2314.5 | 2311.7 | 2314.5 | 2295.2 | 2278.7 |
| 37.5° | 7694.7  | 6588.4 | 3943.7 | 2471.3 | 2297.9 | 2311.7 | 2267.7 | 2262.2 | 2212.6 | 2223.6 | 2231.9 |
| 40°   | 7780.0  | 6448.0 | 3624.4 | 2336.5 | 2267.7 | 2240.2 | 2201.6 | 2193.4 | 2160.3 | 2141.1 | 2160.3 |
| 42.5° | 7656.2  | 6406.7 | 3310.7 | 2278.7 | 2223.6 | 2193.4 | 2165.9 | 2119.1 | 2108.1 | 2091.5 | 2080.5 |
| 45°   | 7557.1  | 6170.1 | 3030.0 | 2207.1 | 2171.4 | 2154.8 | 2102.6 | 2053.0 | 2011.7 | 2028.2 | 2003.5 |
| 47.5° | 7631.4  | 6087.5 | 2752.0 | 2146.6 | 2099.8 | 2080.5 | 2028.2 | 1989.7 | 1948.4 | 1929.2 | 1923.7 |
| 50°   | 7928.6  | 6241.6 | 2518.1 | 2102.6 | 2039.3 | 2028.2 | 1959.4 | 1915.4 | 1876.9 | 1863.1 | 1868.6 |
| 52.5° | 8638.6  | 6662.7 | 2358.5 | 2011.7 | 1981.5 | 1931.9 | 1893.4 | 1838.4 | 1813.6 | 1769.6 | 1797.1 |
| 55°   | 9538.6  | 7347.9 | 2317.2 | 1926.4 | 1909.9 | 1865.9 | 1813.6 | 1772.3 | 1725.5 | 1689.7 | 1681.5 |
| 56°   | 9827.5  | 7675.4 | 2284.2 | 1893.4 | 1865.9 | 1841.1 | 1772.3 | 1747.5 | 1673.2 | 1665.0 | 1659.5 |
| 57.5° | 10061.4 | 7964.4 | 2289.7 | 1830.1 | 1802.6 | 1780.6 | 1739.3 | 1678.7 | 1629.2 | 1598.9 | 1612.7 |
| 60°   | 9533.0  | 7455.3 | 2185.1 | 1733.8 | 1728.3 | 1687.0 | 1629.2 | 1601.7 | 1541.1 | 1505.4 | 1497.1 |
| 62.5° | 7086.5  | 5061.0 | 1772.3 | 1609.9 | 1607.2 | 1563.2 | 1497.1 | 1466.8 | 1455.8 | 1406.3 | 1406.3 |
| 65°   | 4081.3  | 3173.1 | 1532.9 | 1508.1 | 1486.1 | 1442.1 | 1376.0 | 1351.2 | 1323.7 | 1307.2 | 1293.5 |
| 67.5° | 1742.0  | 1645.7 | 1392.5 | 1389.8 | 1365.0 | 1310.0 | 1243.9 | 1205.4 | 1169.6 | 1136.6 | 1153.1 |
| 70°   | 1263.2  | 1282.4 | 1257.7 | 1243.9 | 1213.6 | 1144.8 | 1087.1 | 1040.3 | 985.2  | 963.2  | 979.7  |
| 72.5° | 1001.7  | 1043.0 | 1078.8 | 1081.5 | 1045.8 | 966.0  | 902.7  | 839.4  | 778.8  | 748.6  | 762.3  |
| 75°   | 759.6   | 787.1  | 822.9  | 831.1  | 778.8  | 723.8  | 663.2  | 597.2  | 550.4  | 514.6  | 520.1  |
| 77.5° | 547.7   | 542.2  | 575.2  | 569.7  | 544.9  | 506.4  | 451.3  | 390.8  | 338.5  | 305.5  | 308.2  |
| 80°   | 374.3   | 382.5  | 401.8  | 399.0  | 368.8  | 344.0  | 302.7  | 253.2  | 214.7  | 187.1  | 181.6  |
| 82.5° | 261.4   | 275.2  | 291.7  | 278.0  | 253.2  | 228.4  | 198.1  | 162.4  | 132.1  | 110.1  | 104.6  |
| 85°   | 93.6    | 107.3  | 123.8  | 132.1  | 140.4  | 134.8  | 112.8  | 90.8   | 66.0   | 55.0   | 52.3   |
| 87.5° | 19.3    | 22.0   | 24.8   | 24.8   | 24.8   | 22.0   | 19.3   | 19.3   | 16.5   | 8.3    | 8.3    |
| 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)