

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: P458826

Luminaire Tested: **GALN-SA3C-735-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458826  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3C-735-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15307 lumens  
Efficiency: N/A  
Efficacy: 95.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G3

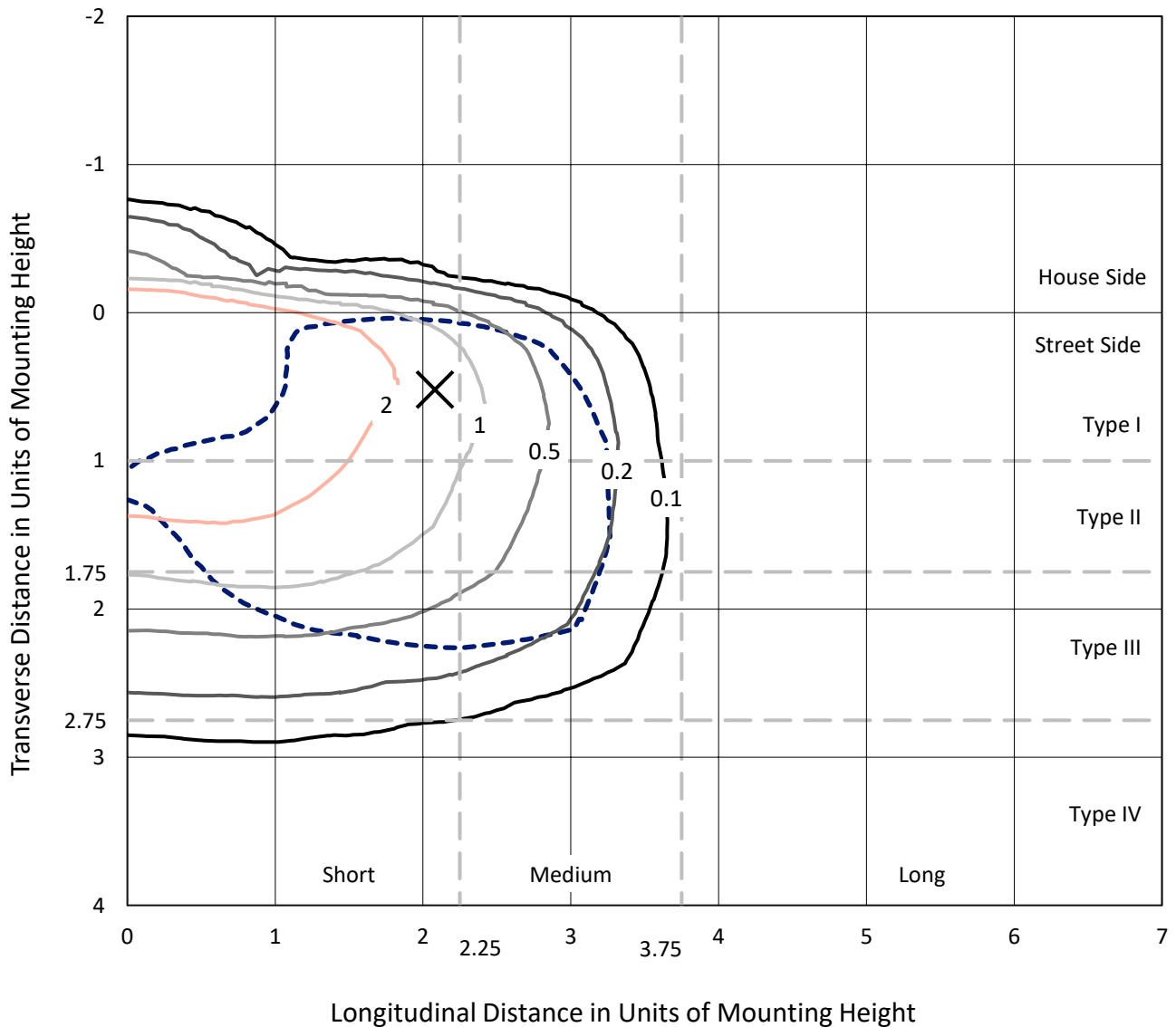
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

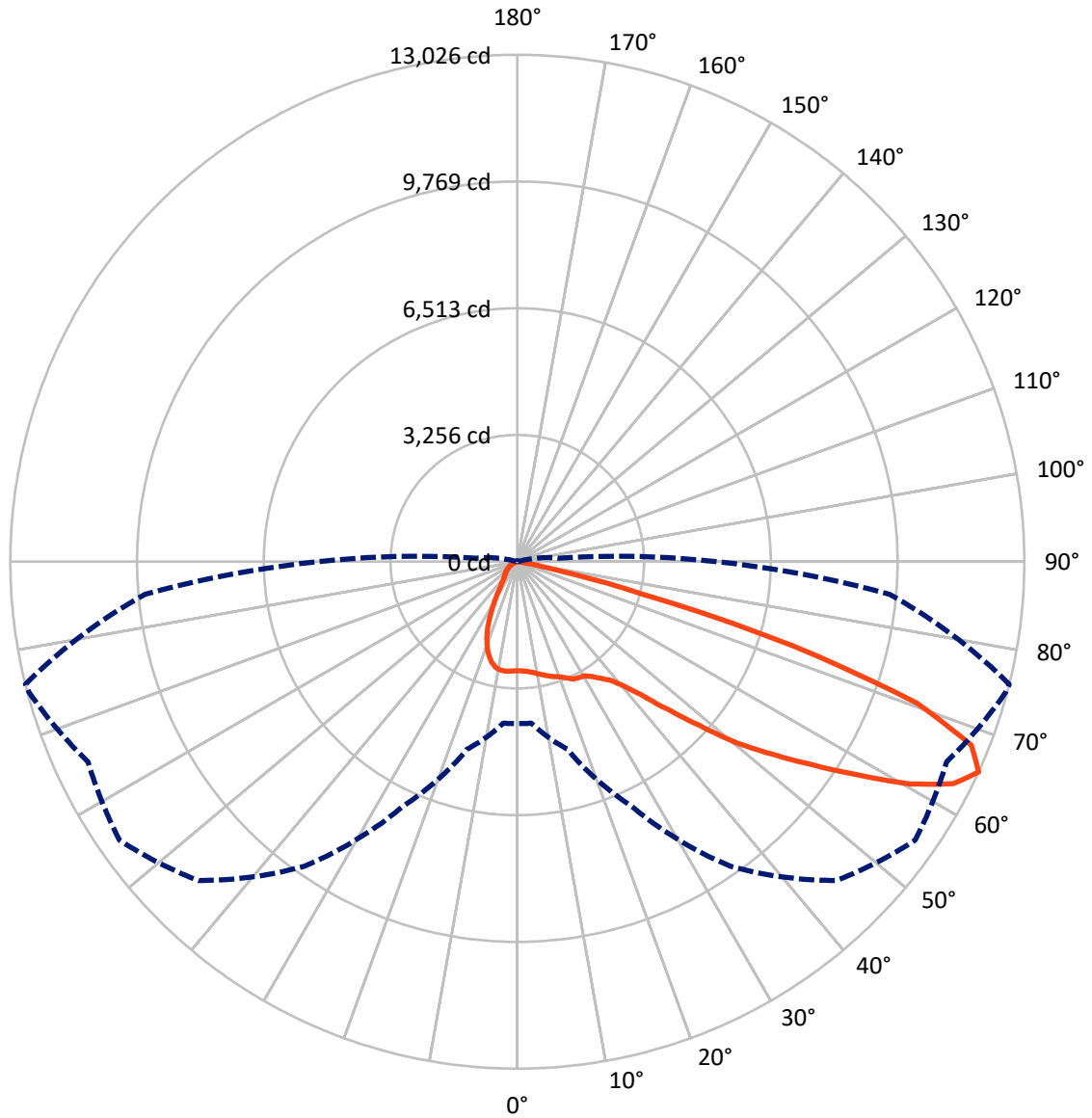
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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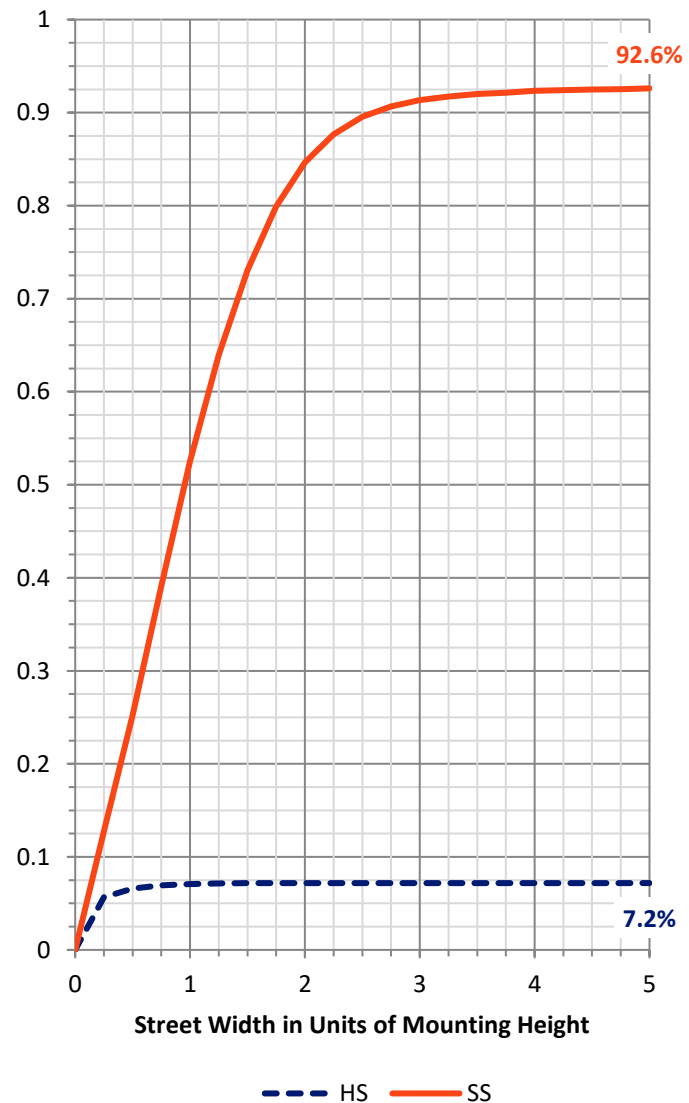
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1105.5   | 0.0    | 1105.5  |
|                    | % Fixture | 7.2      | 0.0    | 7.2     |
| <b>Street Side</b> | Lumens    | 14201.5  | 0.0    | 14201.5 |
|                    | % Fixture | 92.8     | 0.0    | 92.8    |
| <b>Total</b>       | Lumens    | 15307.0  | 0.0    | 15307.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 230.7   | 1.5       |
| 10°-20°   | 513.6   | 3.4       |
| 20°-30°   | 827.6   | 5.4       |
| 30°-40°   | 1439.0  | 9.4       |
| 40°-50°   | 2377.9  | 15.5      |
| 50°-60°   | 3673.3  | 24.0      |
| 60°-70°   | 4485.7  | 29.3      |
| 70°-80°   | 1702.4  | 11.1      |
| 80°-90°   | 56.8    | 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°    | 15307.0 | 100.0     |
| 0°-180°   | 15307.0 | 100.0     |



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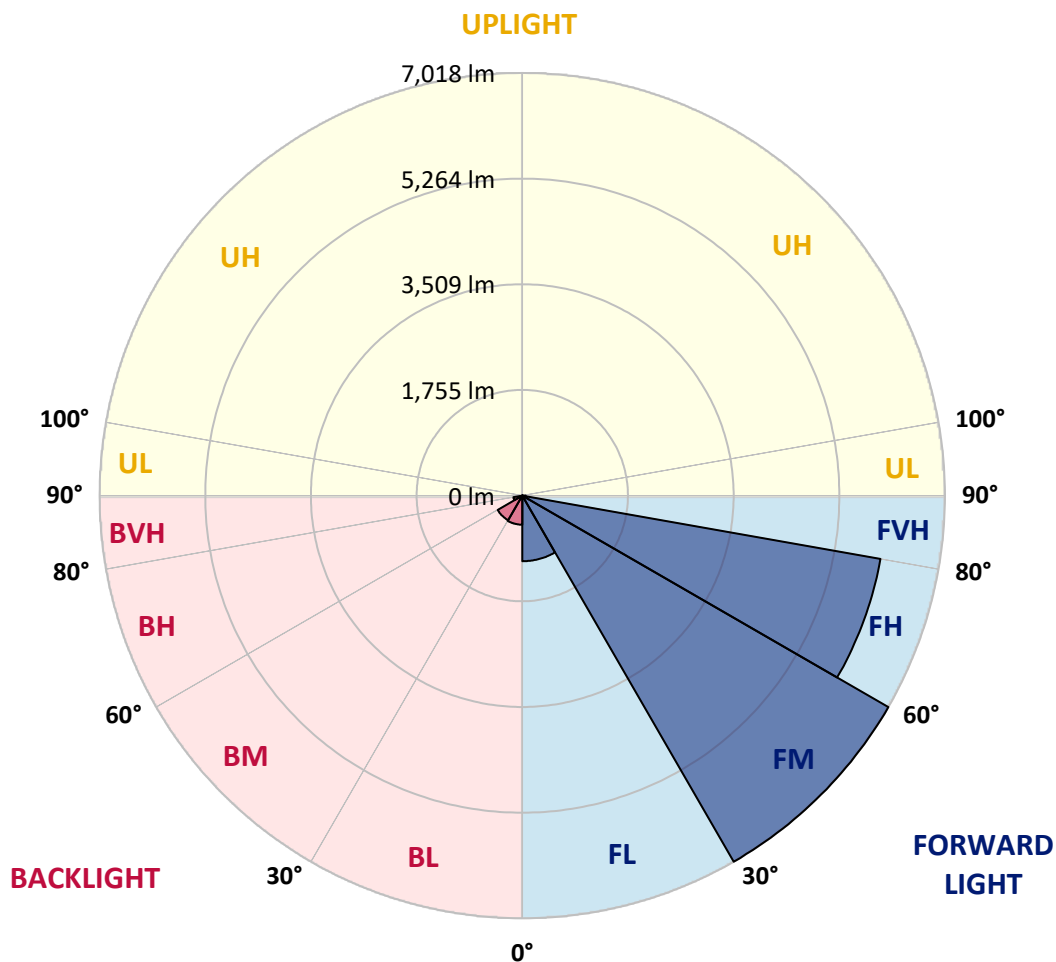
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1088.9 | 7.1       |                         |      |         |
| FM (30°-60°)   | 7018.5 | 45.9      |                         |      |         |
| FH (60°-80°)   | 6038.1 | 39.4      |                         |      | G3/7500 |
| FVH (80°-90°)  | 56.0   | 0.4       |                         |      | G1/100  |
| BL (0°-30°)    | 483.0  | 3.2       | B1/500                  |      |         |
| BM (30°-60°)   | 471.7  | 3.1       | B1/1000                 |      |         |
| BH (60°-80°)   | 150.0  | 1.0       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 0.8    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 55°     | 65°     | 75°     | 76°     | 85°    |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|--------|
| 0°    | 2800.1 | 2800.1 | 2800.1 | 2800.1 | 2800.1 | 2800.1  | 2800.1  | 2800.1  | 2800.1  | 2800.1  | 2800.1 |
| 2.5°  | 2675.9 | 2676.9 | 2683.4 | 2699.6 | 2724.5 | 2745.0  | 2762.3  | 2790.4  | 2809.9  | 2812.0  | 2818.5 |
| 5°    | 2491.1 | 2478.1 | 2491.1 | 2533.2 | 2571.0 | 2628.3  | 2698.6  | 2768.8  | 2831.5  | 2835.8  | 2866.1 |
| 7.5°  | 2283.6 | 2294.4 | 2314.9 | 2358.1 | 2429.5 | 2517.0  | 2618.6  | 2743.9  | 2862.8  | 2873.6  | 2933.1 |
| 10°   | 2072.8 | 2096.6 | 2130.1 | 2196.0 | 2295.4 | 2408.9  | 2547.3  | 2726.7  | 2912.5  | 2927.7  | 3030.3 |
| 12.5° | 1878.3 | 1889.1 | 1930.2 | 2018.8 | 2142.0 | 2301.9  | 2493.2  | 2716.9  | 2967.7  | 2986.0  | 3134.1 |
| 15°   | 1729.1 | 1743.2 | 1778.9 | 1858.8 | 1996.1 | 2201.4  | 2448.9  | 2713.7  | 3021.7  | 3047.6  | 3237.8 |
| 17.5° | 1701.0 | 1709.7 | 1724.8 | 1778.9 | 1898.8 | 2121.4  | 2408.9  | 2712.6  | 3073.6  | 3104.9  | 3334.0 |
| 20°   | 1816.7 | 1809.1 | 1794.0 | 1788.6 | 1854.5 | 2059.8  | 2379.7  | 2721.2  | 3123.3  | 3158.9  | 3435.6 |
| 22.5° | 2106.3 | 2116.0 | 2027.4 | 1922.6 | 1901.0 | 2050.1  | 2375.4  | 2762.3  | 3202.2  | 3244.3  | 3549.1 |
| 25°   | 2721.2 | 2646.7 | 2508.3 | 2257.6 | 2068.5 | 2109.6  | 2424.0  | 2859.6  | 3294.0  | 3340.5  | 3651.7 |
| 27.5° | 3401.0 | 3378.3 | 3163.3 | 2750.4 | 2398.1 | 2234.9  | 2510.5  | 2934.1  | 3324.3  | 3371.8  | 3710.1 |
| 30°   | 4068.9 | 4095.9 | 3849.5 | 3393.5 | 2876.9 | 2467.3  | 2591.6  | 2962.2  | 3351.3  | 3401.0  | 3784.7 |
| 32.5° | 4688.2 | 4720.6 | 4504.4 | 4052.7 | 3441.0 | 2869.3  | 2731.0  | 3071.4  | 3464.8  | 3515.6  | 3909.0 |
| 35°   | 5175.6 | 5179.9 | 5016.7 | 4656.8 | 4057.0 | 3357.8  | 3032.5  | 3262.7  | 3618.2  | 3677.7  | 4040.8 |
| 37.5° | 5623.0 | 5616.5 | 5425.2 | 5115.0 | 4570.4 | 3843.0  | 3411.8  | 3483.2  | 3793.3  | 3854.9  | 4231.0 |
| 40°   | 5954.8 | 5959.1 | 5897.5 | 5605.7 | 5049.1 | 4291.5  | 3712.3  | 3689.6  | 4087.3  | 4183.5  | 4507.7 |
| 42.5° | 6176.3 | 6216.3 | 6246.5 | 6098.5 | 5651.1 | 4843.8  | 4173.7  | 4131.6  | 4597.4  | 4677.3  | 4898.9 |
| 45°   | 6355.7 | 6427.0 | 6578.3 | 6570.8 | 6229.3 | 5521.4  | 4807.0  | 4720.6  | 5320.4  | 5405.7  | 5397.1 |
| 47.5° | 6486.5 | 6558.9 | 6809.6 | 6960.9 | 6772.9 | 6178.5  | 5603.5  | 5529.0  | 6183.9  | 6276.8  | 5947.2 |
| 50°   | 6553.5 | 6639.9 | 6959.8 | 7252.7 | 7197.6 | 6811.8  | 6511.3  | 6515.6  | 7226.8  | 7316.5  | 6584.8 |
| 52.5° | 6396.8 | 6509.2 | 7039.8 | 7567.2 | 7674.2 | 7418.0  | 7361.8  | 7504.5  | 8155.1  | 8231.8  | 7160.8 |
| 55°   | 5896.4 | 6038.0 | 6930.6 | 7835.2 | 8226.4 | 8133.5  | 8328.0  | 8545.2  | 9169.9  | 9219.6  | 7752.0 |
| 57.5° | 5579.7 | 5730.0 | 6608.6 | 8063.2 | 8890.0 | 9032.6  | 9340.6  | 9499.5  | 10217.1 | 10343.5 | 8430.7 |
| 60°   | 5312.8 | 5430.6 | 6343.8 | 8111.9 | 9564.3 | 10132.8 | 10432.2 | 10596.4 | 11509.6 | 11591.8 | 9177.5 |
| 62.5° | 4868.6 | 5003.7 | 5896.4 | 7772.5 | 9903.7 | 11013.6 | 11633.9 | 11560.4 | 12509.3 | 12566.6 | 9635.7 |
| 65°   | 4154.3 | 4166.2 | 4988.6 | 6919.8 | 9553.5 | 11585.3 | 12478.0 | 12170.0 | 12987.0 | 13025.9 | 9600.0 |
| 67.5° | 3100.6 | 3215.1 | 3837.6 | 5439.3 | 8069.7 | 11096.8 | 12751.4 | 12186.2 | 12685.5 | 12577.4 | 8838.1 |
| 70°   | 1997.2 | 2084.7 | 2601.3 | 3771.7 | 5818.6 | 9260.7  | 11844.7 | 11350.8 | 11133.6 | 10893.6 | 7234.3 |
| 72.5° | 921.9  | 1034.2 | 1545.4 | 2155.0 | 3450.7 | 6596.7  | 9615.1  | 9221.8  | 8013.5  | 7421.3  | 4598.5 |
| 75°   | 402.0  | 430.1  | 763.0  | 1136.9 | 1617.8 | 3488.6  | 6339.5  | 5724.6  | 3619.3  | 3305.9  | 1840.5 |
| 77.5° | 245.3  | 263.7  | 399.9  | 609.5  | 635.5  | 1329.3  | 3415.1  | 2497.5  | 1118.5  | 986.7   | 499.3  |
| 80°   | 166.4  | 187.0  | 290.7  | 318.8  | 217.2  | 370.7   | 1281.7  | 666.8   | 225.9   | 216.1   | 107.0  |
| 82.5° | 81.1   | 102.7  | 215.1  | 178.3  | 94.0   | 118.9   | 372.8   | 142.7   | 65.9    | 61.6    | 37.8   |
| 85°   | 11.9   | 20.5   | 121.0  | 116.7  | 42.1   | 28.1    | 65.9    | 35.7    | 22.7    | 21.6    | 17.3   |
| 87.5° | 0.0    | 0.0    | 41.1   | 18.4   | 4.3    | 4.3     | 7.6     | 7.6     | 8.6     | 7.6     | 8.6    |
| 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°    | 2800.1 | 2800.1 | 2800.1 | 2800.1 | 2800.1 | 2800.1 | 2800.1 | 2800.1 | 2800.1 | 2800.1 | 2800.1 |
| 2.5°  | 2821.8 | 2827.2 | 2806.6 | 2777.4 | 2746.1 | 2714.8 | 2670.5 | 2630.5 | 2606.7 | 2620.7 | 2586.2 |
| 5°    | 2872.5 | 2868.2 | 2814.2 | 2725.6 | 2607.8 | 2466.2 | 2325.7 | 2205.7 | 2166.8 | 2108.5 | 2102.0 |
| 7.5°  | 2942.8 | 2930.9 | 2816.3 | 2613.2 | 2347.3 | 2081.5 | 1822.1 | 1650.3 | 1551.9 | 1468.7 | 1470.9 |
| 10°   | 3041.1 | 3006.6 | 2791.5 | 2415.4 | 1977.7 | 1576.8 | 1246.1 | 1019.1 | 920.8  | 889.4  | 864.6  |
| 12.5° | 3142.7 | 3075.7 | 2722.3 | 2148.5 | 1540.0 | 1077.5 | 757.6  | 619.3  | 558.7  | 539.3  | 537.1  |
| 15°   | 3233.5 | 3127.6 | 2601.3 | 1827.5 | 1119.6 | 688.4  | 516.6  | 471.2  | 463.6  | 464.7  | 463.6  |
| 17.5° | 3323.2 | 3168.7 | 2433.8 | 1487.1 | 760.8  | 493.9  | 444.2  | 433.4  | 436.6  | 440.9  | 439.9  |
| 20°   | 3397.8 | 3177.3 | 2219.8 | 1134.8 | 538.2  | 433.4  | 417.2  | 415.0  | 418.2  | 421.5  | 421.5  |
| 22.5° | 3478.8 | 3183.8 | 1965.8 | 785.7  | 439.9  | 403.1  | 394.5  | 394.5  | 398.8  | 403.1  | 404.2  |
| 25°   | 3539.3 | 3148.1 | 1662.1 | 564.1  | 388.0  | 373.9  | 369.6  | 370.7  | 375.0  | 377.2  | 376.1  |
| 27.5° | 3549.1 | 3047.6 | 1340.1 | 432.3  | 352.3  | 338.3  | 333.9  | 338.3  | 332.9  | 336.1  | 333.9  |
| 30°   | 3557.7 | 2920.1 | 1013.7 | 364.2  | 319.9  | 298.3  | 291.8  | 285.3  | 281.0  | 275.6  | 274.5  |
| 32.5° | 3584.7 | 2769.9 | 740.3  | 327.5  | 289.6  | 265.9  | 250.7  | 232.4  | 218.3  | 214.0  | 212.9  |
| 35°   | 3596.6 | 2589.4 | 543.6  | 298.3  | 262.6  | 236.7  | 209.7  | 183.7  | 163.2  | 155.6  | 161.0  |
| 37.5° | 3642.0 | 2414.3 | 421.5  | 276.7  | 238.8  | 206.4  | 171.8  | 139.4  | 120.0  | 115.6  | 117.8  |
| 40°   | 3735.0 | 2224.1 | 353.4  | 258.3  | 218.3  | 178.3  | 136.2  | 104.8  | 91.9   | 87.5   | 86.5   |
| 42.5° | 3884.1 | 2035.0 | 314.5  | 241.0  | 197.8  | 150.2  | 107.0  | 82.1   | 71.3   | 68.1   | 68.1   |
| 45°   | 4065.7 | 1853.4 | 287.5  | 222.6  | 176.2  | 121.0  | 84.3   | 65.9   | 59.4   | 57.3   | 57.3   |
| 47.5° | 4304.5 | 1694.6 | 264.8  | 204.3  | 152.4  | 96.2   | 68.1   | 57.3   | 53.0   | 54.0   | 55.1   |
| 50°   | 4546.6 | 1576.8 | 239.9  | 183.7  | 125.4  | 78.9   | 58.4   | 50.8   | 49.7   | 50.8   | 50.8   |
| 52.5° | 4729.2 | 1507.6 | 206.4  | 155.6  | 98.3   | 65.9   | 51.9   | 47.6   | 46.5   | 44.3   | 44.3   |
| 55°   | 4975.6 | 1492.5 | 164.3  | 126.4  | 77.8   | 55.1   | 46.5   | 43.2   | 40.0   | 37.8   | 36.7   |
| 57.5° | 5292.3 | 1509.8 | 126.4  | 98.3   | 60.5   | 45.4   | 41.1   | 35.7   | 31.3   | 27.0   | 27.0   |
| 60°   | 5489.0 | 1470.9 | 98.3   | 75.7   | 44.3   | 36.7   | 31.3   | 25.9   | 20.5   | 17.3   | 16.2   |
| 62.5° | 5426.3 | 1306.6 | 77.8   | 56.2   | 31.3   | 27.0   | 20.5   | 17.3   | 11.9   | 8.6    | 7.6    |
| 65°   | 5103.1 | 1054.8 | 62.7   | 38.9   | 22.7   | 16.2   | 10.8   | 10.8   | 5.4    | 1.1    | 0.0    |
| 67.5° | 4466.6 | 781.4  | 49.7   | 25.9   | 13.0   | 7.6    | 5.4    | 3.2    | 0.0    | 0.0    | 0.0    |
| 70°   | 3635.5 | 564.1  | 38.9   | 16.2   | 7.6    | 5.4    | 2.2    | 1.1    | 0.0    | 0.0    | 0.0    |
| 72.5° | 2308.4 | 323.1  | 30.3   | 9.7    | 5.4    | 2.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 892.7  | 126.4  | 20.5   | 6.5    | 2.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 252.9  | 59.4   | 11.9   | 3.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 65.9   | 25.9   | 6.5    | 1.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 31.3   | 10.8   | 2.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 18.4   | 4.3    | 1.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 8.6    | 1.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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)