

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: P192781

Luminaire Tested: **GLEON-AF-03-LED-E1-SL2-7030-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192781  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-AF-03-LED-E1-SL2-7030-800-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11761.8 lumens  
Efficiency: N/A  
Efficacy: 94.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 124  
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: 25 FT



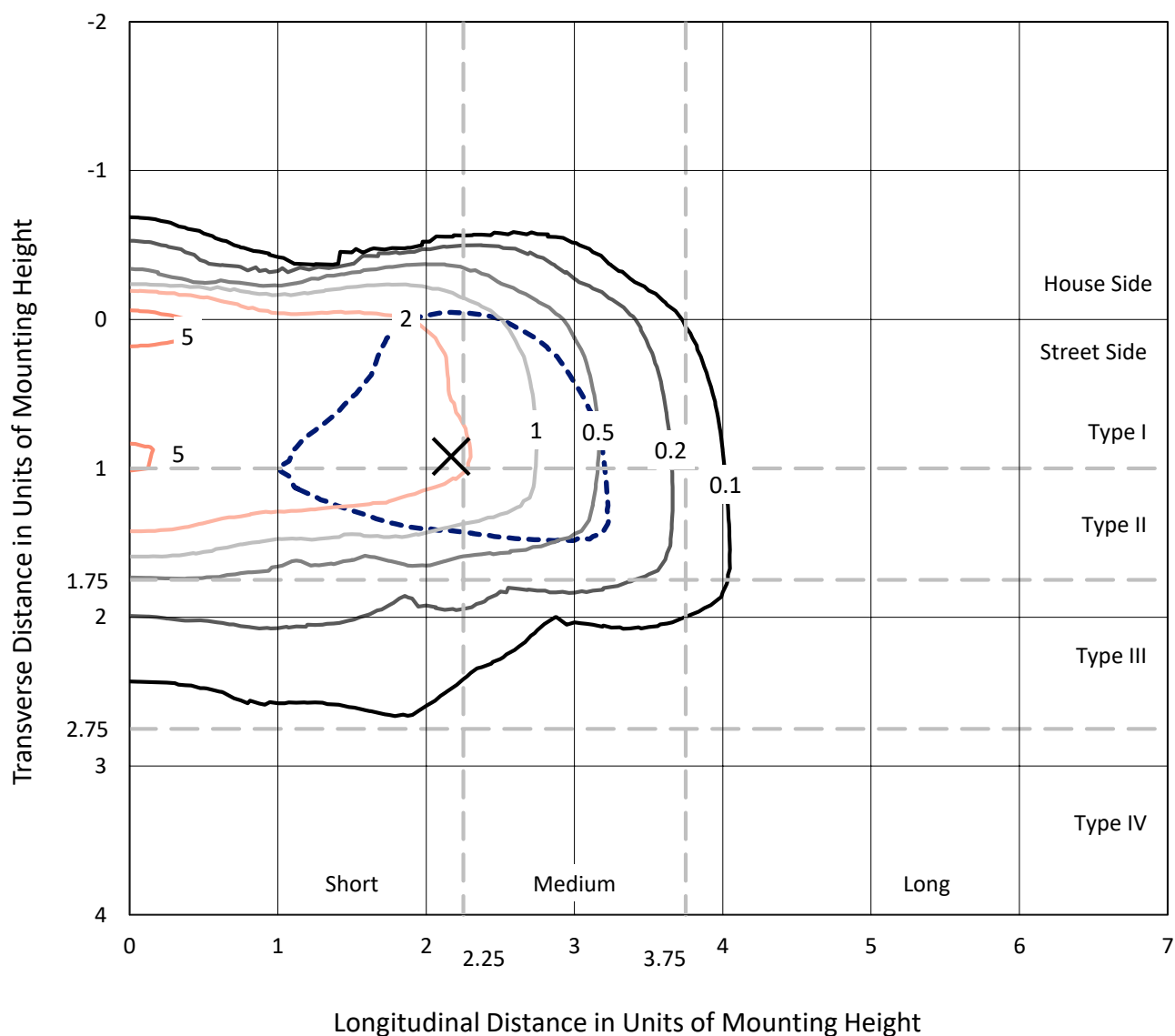
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

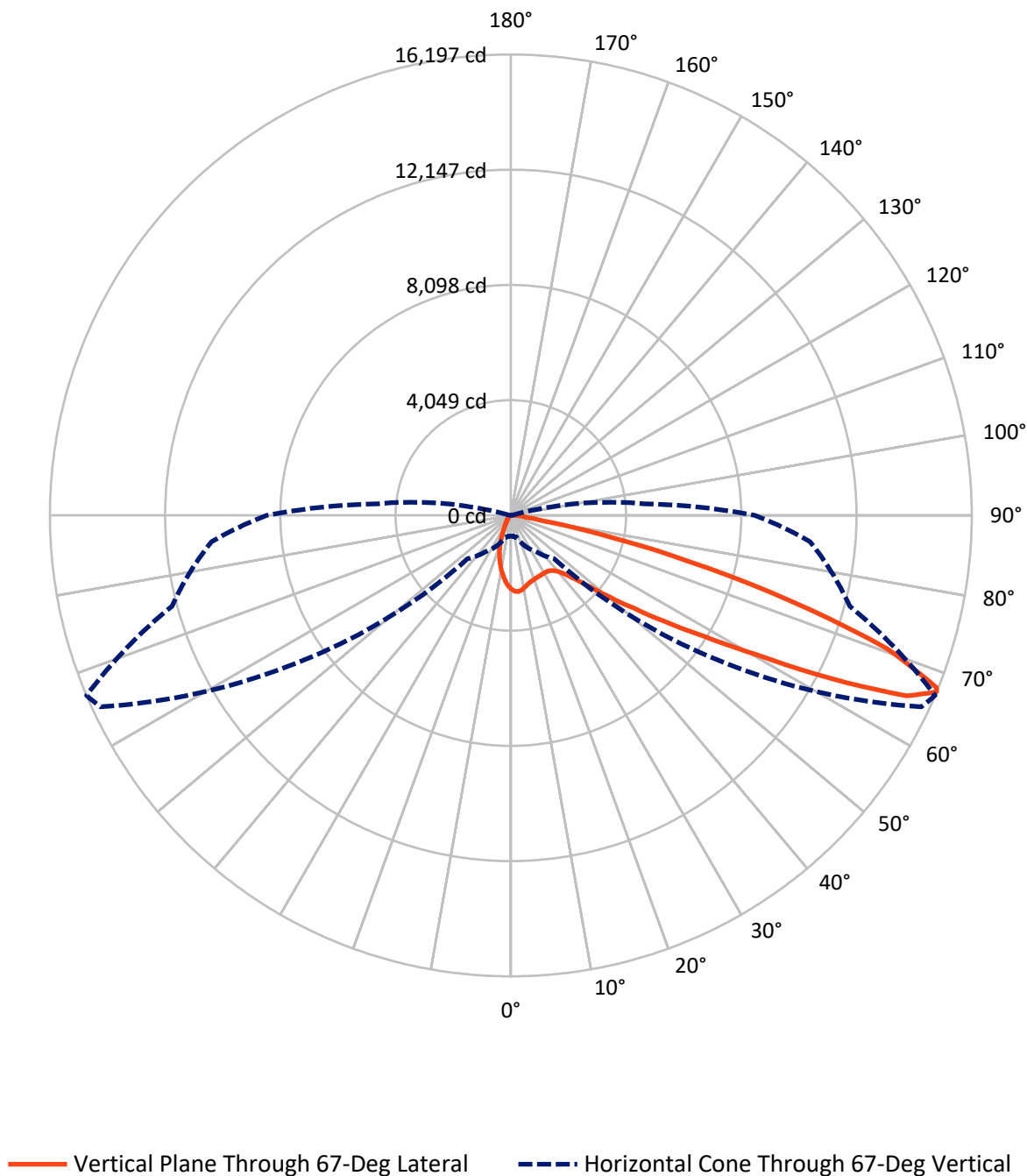


Based on 20 foot mounting height. Maximum calculated value = 6.5 fc  
Type II - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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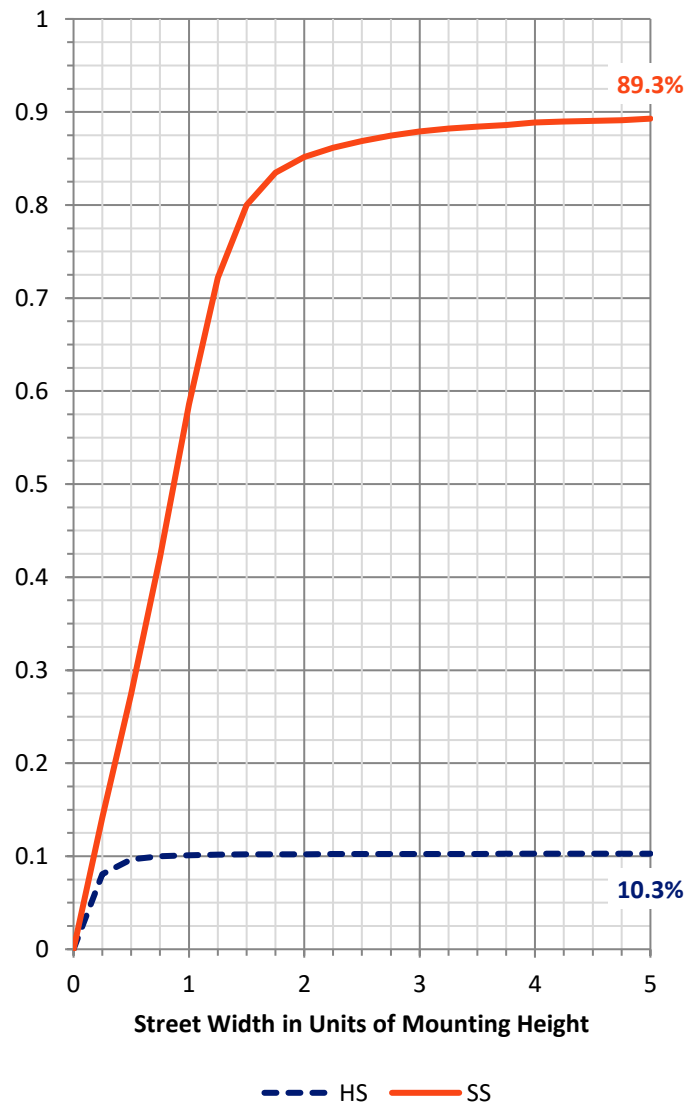
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1221.2   | 0.0    | 1221.2  |
|                    | % Fixture | 10.4     | 0.0    | 10.4    |
| <b>Street Side</b> | Lumens    | 10540.5  | 0.0    | 10540.5 |
|                    | % Fixture | 89.6     | 0.0    | 89.6    |
| <b>Total</b>       | Lumens    | 11761.8  | 0.0    | 11761.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 211.1   | 1.8       |
| 10°-20°   | 449.2   | 3.8       |
| 20°-30°   | 653.1   | 5.6       |
| 30°-40°   | 1018.9  | 8.7       |
| 40°-50°   | 1804.9  | 15.3      |
| 50°-60°   | 2856.1  | 24.3      |
| 60°-70°   | 3271.3  | 27.8      |
| 70°-80°   | 1356.9  | 11.5      |
| 80°-90°   | 140.2   | 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°    | 11761.8 | 100.0     |
| 0°-180°   | 11761.8 | 100.0     |

**Coefficient of Utilization**



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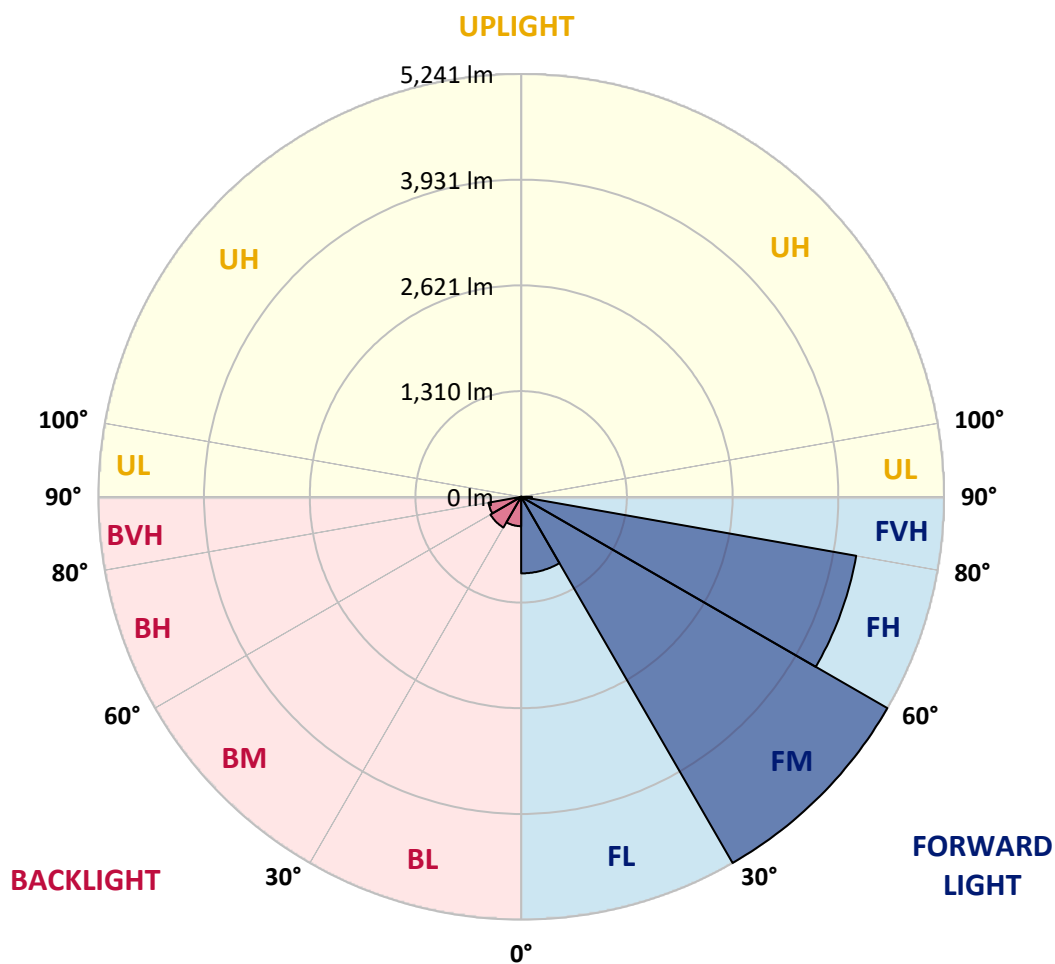
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 949.0  | 8.1       |                         |      |         |
| FM   | (30°-60°)   | 5241.1 | 44.6      |                         |      |         |
| FH   | (60°-80°)   | 4216.6 | 35.9      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 133.8  | 1.1       |                         |      | G2/225  |
| BL   | (0°-30°)    | 364.4  | 3.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 438.9  | 3.7       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 411.6  | 3.5       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 6.3    | 0.1       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 65°     | 67°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0°    | 2594.0 | 2594.0 | 2594.0 | 2594.0 | 2594.0 | 2594.0 | 2594.0  | 2594.0  | 2594.0  | 2594.0  | 2594.0  |
| 2.5°  | 2681.8 | 2687.2 | 2686.4 | 2690.6 | 2700.3 | 2700.9 | 2691.3  | 2672.8  | 2668.6  | 2644.6  | 2602.8  |
| 5°    | 2473.2 | 2488.9 | 2498.5 | 2537.6 | 2581.6 | 2634.3 | 2674.1  | 2688.6  | 2686.4  | 2669.3  | 2606.3  |
| 7.5°  | 2235.1 | 2250.8 | 2261.8 | 2307.8 | 2366.1 | 2456.7 | 2560.3  | 2645.3  | 2653.0  | 2671.4  | 2603.5  |
| 10°   | 2076.6 | 2079.4 | 2094.5 | 2138.4 | 2199.4 | 2292.0 | 2415.5  | 2564.5  | 2587.0  | 2655.0  | 2596.6  |
| 12.5° | 1946.2 | 1948.3 | 1968.2 | 2015.7 | 2080.8 | 2174.0 | 2303.7  | 2476.0  | 2510.9  | 2634.3  | 2595.2  |
| 15°   | 1853.7 | 1861.2 | 1879.0 | 1928.4 | 1997.7 | 2090.3 | 2223.4  | 2410.7  | 2452.6  | 2626.8  | 2607.6  |
| 17.5° | 1822.8 | 1831.0 | 1836.5 | 1872.1 | 1935.3 | 2025.8 | 2162.3  | 2368.2  | 2415.5  | 2631.0  | 2631.6  |
| 20°   | 1855.0 | 1861.2 | 1848.8 | 1857.7 | 1896.8 | 1977.8 | 2110.9  | 2331.8  | 2388.1  | 2635.8  | 2662.5  |
| 22.5° | 1975.1 | 1977.8 | 1944.3 | 1905.2 | 1898.3 | 1942.8 | 2070.5  | 2303.0  | 2363.4  | 2648.8  | 2698.8  |
| 25°   | 2181.0 | 2176.1 | 2121.3 | 2036.8 | 1957.3 | 1936.7 | 2046.4  | 2285.1  | 2351.0  | 2662.5  | 2736.6  |
| 27.5° | 2429.3 | 2436.2 | 2360.6 | 2237.8 | 2086.2 | 1977.8 | 2043.0  | 2277.6  | 2345.6  | 2672.2  | 2769.5  |
| 30°   | 2731.2 | 2740.8 | 2654.2 | 2500.0 | 2282.4 | 2079.4 | 2074.7  | 2276.3  | 2342.1  | 2665.9  | 2772.2  |
| 32.5° | 3039.1 | 3050.8 | 2982.9 | 2823.7 | 2544.5 | 2249.5 | 2146.0  | 2291.3  | 2349.0  | 2644.6  | 2756.5  |
| 35°   | 3361.6 | 3378.1 | 3332.7 | 3196.3 | 2899.8 | 2495.2 | 2271.5  | 2337.3  | 2381.2  | 2642.7  | 2740.8  |
| 37.5° | 3806.8 | 3821.9 | 3736.8 | 3592.1 | 3330.0 | 2824.5 | 2473.2  | 2423.8  | 2457.3  | 2675.5  | 2744.8  |
| 40°   | 4471.6 | 4469.6 | 4249.9 | 4028.4 | 3802.7 | 3243.0 | 2756.5  | 2580.1  | 2597.3  | 2774.9  | 2795.6  |
| 42.5° | 5196.1 | 5192.6 | 4868.1 | 4531.3 | 4327.5 | 3758.1 | 3128.9  | 2850.5  | 2838.8  | 2958.2  | 2927.3  |
| 45°   | 5754.4 | 5753.8 | 5488.9 | 5109.6 | 4959.4 | 4349.5 | 3610.6  | 3226.4  | 3208.6  | 3255.9  | 3170.1  |
| 47.5° | 5992.6 | 5996.7 | 5863.5 | 5596.7 | 5659.8 | 5149.4 | 4217.7  | 3771.2  | 3744.5  | 3725.2  | 3594.8  |
| 50°   | 5807.3 | 5815.6 | 5826.5 | 5774.4 | 6173.5 | 6224.4 | 5032.1  | 4538.8  | 4525.7  | 4440.1  | 4236.3  |
| 52.5° | 5202.2 | 5244.0 | 5373.1 | 5538.4 | 6352.0 | 7256.2 | 6308.7  | 5492.4  | 5422.4  | 5331.2  | 5106.9  |
| 55°   | 4182.8 | 4228.8 | 4473.6 | 4874.9 | 6086.5 | 7934.0 | 8098.0  | 6721.7  | 6605.2  | 6332.7  | 6009.0  |
| 57.5° | 2768.2 | 2839.5 | 3194.8 | 3705.3 | 5315.4 | 8043.1 | 9883.0  | 8427.9  | 8021.9  | 7276.1  | 6911.0  |
| 60°   | 1525.0 | 1593.6 | 1979.2 | 2441.6 | 3839.1 | 7503.8 | 11083.6 | 10649.4 | 9931.7  | 8330.6  | 8006.7  |
| 62.5° | 939.2  | 976.2  | 1261.0 | 1691.2 | 2302.3 | 5922.5 | 11332.0 | 13440.8 | 12610.0 | 9688.2  | 9330.0  |
| 65°   | 747.8  | 763.5  | 902.8  | 1382.3 | 1650.6 | 3522.8 | 10530.0 | 15568.9 | 15291.7 | 11332.0 | 10514.9 |
| 67°   | 725.8  | 732.0  | 797.8  | 1186.9 | 1556.0 | 2159.6 | 8821.7  | 15915.4 | 16196.6 | 12326.7 | 10551.9 |
| 67.5° | 730.6  | 737.5  | 799.9  | 1132.7 | 1553.2 | 1984.7 | 8233.1  | 15778.7 | 16134.2 | 12405.7 | 10388.0 |
| 70°   | 704.6  | 725.8  | 915.8  | 1131.9 | 1477.0 | 1649.3 | 4930.6  | 13671.3 | 14041.1 | 11526.8 | 8814.2  |
| 72.5° | 249.7  | 251.1  | 395.8  | 915.8  | 1606.0 | 1667.1 | 2476.0  | 10022.4 | 10296.0 | 8817.7  | 6354.7  |
| 75°   | 148.1  | 126.2  | 131.7  | 260.7  | 1534.6 | 1619.0 | 1428.3  | 6404.1  | 6506.4  | 5052.7  | 3218.2  |
| 77.5° | 102.2  | 89.1   | 91.9   | 115.3  | 584.5  | 1596.4 | 1134.6  | 3339.6  | 3230.6  | 1772.0  | 685.4   |
| 80°   | 58.4   | 51.5   | 54.8   | 100.8  | 212.6  | 1489.4 | 1070.2  | 1354.3  | 1154.7  | 300.5   | 189.3   |
| 82.5° | 30.9   | 26.1   | 31.5   | 83.0   | 148.1  | 928.1  | 1072.3  | 654.5   | 518.7   | 101.5   | 128.9   |
| 85°   | 10.9   | 9.0    | 15.1   | 57.0   | 98.8   | 284.7  | 994.0   | 550.2   | 432.2   | 49.3    | 98.2    |
| 87.5° | 2.0    | 2.0    | 6.2    | 23.3   | 39.8   | 87.1   | 588.0   | 326.5   | 218.8   | 29.5    | 67.2    |
| 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°    | 2594.0 | 2594.0 | 2594.0 | 2594.0 | 2594.0 | 2594.0 | 2594.0 | 2594.0 | 2594.0 | 2594.0 | 2594.0 |
| 2.5°  | 2585.6 | 2556.1 | 2516.3 | 2467.6 | 2410.0 | 2359.2 | 2321.5 | 2282.4 | 2274.2 | 2260.5 | 2258.4 |
| 5°    | 2568.4 | 2517.8 | 2419.0 | 2305.8 | 2185.0 | 2075.9 | 1987.4 | 1908.5 | 1873.6 | 1843.4 | 1839.9 |
| 7.5°  | 2543.1 | 2467.0 | 2299.0 | 2116.5 | 1927.8 | 1756.3 | 1610.8 | 1507.9 | 1413.3 | 1367.9 | 1361.1 |
| 10°   | 2513.6 | 2404.6 | 2163.8 | 1910.6 | 1650.0 | 1407.7 | 1191.7 | 1010.5 | 900.8  | 835.7  | 827.3  |
| 12.5° | 2486.2 | 2343.5 | 2025.8 | 1697.3 | 1350.8 | 1027.0 | 749.2  | 576.3  | 461.0  | 414.4  | 408.8  |
| 15°   | 2473.2 | 2294.1 | 1896.8 | 1479.1 | 1038.0 | 653.8  | 409.6  | 317.0  | 279.2  | 268.2  | 267.5  |
| 17.5° | 2471.8 | 2252.3 | 1770.6 | 1253.4 | 727.2  | 380.1  | 266.9  | 243.5  | 236.0  | 233.3  | 233.3  |
| 20°   | 2471.1 | 2212.5 | 1644.5 | 1019.5 | 461.7  | 253.2  | 222.3  | 216.8  | 211.3  | 207.9  | 207.9  |
| 22.5° | 2478.6 | 2176.8 | 1512.7 | 780.6  | 290.8  | 205.1  | 195.6  | 190.0  | 183.1  | 178.4  | 177.6  |
| 25°   | 2486.2 | 2149.3 | 1378.2 | 555.7  | 210.7  | 178.4  | 168.8  | 161.2  | 151.7  | 145.5  | 144.8  |
| 27.5° | 2487.7 | 2115.0 | 1234.2 | 371.8  | 176.4  | 155.7  | 143.3  | 131.7  | 120.7  | 114.6  | 113.8  |
| 30°   | 2467.0 | 2057.5 | 1074.3 | 251.1  | 155.7  | 135.2  | 118.6  | 106.3  | 96.0   | 91.2   | 91.2   |
| 32.5° | 2426.5 | 1986.2 | 898.6  | 189.3  | 138.5  | 116.0  | 98.2   | 86.5   | 79.5   | 77.6   | 76.8   |
| 35°   | 2390.1 | 1909.2 | 718.3  | 160.5  | 124.1  | 98.2   | 80.3   | 72.7   | 68.7   | 68.0   | 67.2   |
| 37.5° | 2368.8 | 1847.5 | 548.8  | 145.5  | 110.5  | 82.3   | 68.0   | 62.4   | 60.4   | 59.0   | 59.6   |
| 40°   | 2385.3 | 1796.0 | 405.5  | 133.1  | 96.7   | 68.7   | 57.6   | 54.8   | 52.8   | 52.1   | 52.1   |
| 42.5° | 2457.3 | 1787.2 | 301.1  | 122.2  | 83.7   | 57.0   | 50.0   | 48.1   | 46.7   | 46.0   | 46.7   |
| 45°   | 2646.7 | 1842.0 | 234.0  | 111.8  | 70.7   | 48.1   | 42.5   | 41.8   | 41.2   | 41.2   | 41.2   |
| 47.5° | 2931.4 | 1955.2 | 194.8  | 100.2  | 59.0   | 41.2   | 37.0   | 36.4   | 35.7   | 36.4   | 36.4   |
| 50°   | 3413.7 | 2162.3 | 174.3  | 88.5   | 48.7   | 35.0   | 31.5   | 31.5   | 31.5   | 31.5   | 32.2   |
| 52.5° | 4147.1 | 2569.9 | 160.5  | 76.8   | 39.8   | 29.5   | 26.8   | 26.8   | 27.5   | 27.5   | 28.1   |
| 55°   | 4964.2 | 3110.5 | 148.1  | 65.2   | 33.7   | 24.7   | 22.0   | 22.6   | 23.3   | 24.0   | 24.0   |
| 57.5° | 5850.5 | 3709.4 | 137.8  | 53.5   | 28.9   | 19.8   | 18.6   | 19.2   | 19.8   | 21.3   | 21.3   |
| 60°   | 6920.1 | 4357.7 | 122.8  | 41.8   | 24.0   | 15.8   | 14.4   | 15.8   | 17.8   | 19.2   | 19.8   |
| 62.5° | 8094.6 | 4984.7 | 103.6  | 32.9   | 19.8   | 12.3   | 11.7   | 14.4   | 17.2   | 18.6   | 19.2   |
| 65°   | 8897.2 | 5181.6 | 79.5   | 26.8   | 15.1   | 9.0    | 9.7    | 13.0   | 16.5   | 18.6   | 18.6   |
| 67°   | 8572.1 | 4697.9 | 65.2   | 22.6   | 12.3   | 6.9    | 9.0    | 13.0   | 16.5   | 17.8   | 18.6   |
| 67.5° | 8346.4 | 4508.6 | 62.4   | 22.0   | 11.7   | 6.9    | 9.0    | 13.0   | 16.5   | 18.6   | 18.6   |
| 70°   | 6791.1 | 3386.9 | 52.1   | 16.5   | 9.7    | 6.2    | 7.5    | 12.3   | 15.8   | 17.8   | 17.8   |
| 72.5° | 4718.6 | 2088.3 | 46.7   | 11.7   | 8.2    | 5.5    | 6.9    | 11.7   | 15.1   | 17.2   | 17.8   |
| 75°   | 2243.3 | 756.0  | 39.8   | 9.0    | 7.5    | 4.8    | 6.2    | 11.7   | 15.1   | 17.2   | 17.2   |
| 77.5° | 457.6  | 175.6  | 32.2   | 7.5    | 6.2    | 4.8    | 5.5    | 10.9   | 14.4   | 16.5   | 16.5   |
| 80°   | 150.2  | 68.0   | 24.0   | 6.9    | 6.2    | 4.8    | 5.5    | 10.3   | 14.4   | 15.8   | 16.5   |
| 82.5° | 108.3  | 34.3   | 15.8   | 6.9    | 6.2    | 4.8    | 4.8    | 10.3   | 13.7   | 15.8   | 15.8   |
| 85°   | 83.0   | 24.0   | 10.3   | 6.9    | 6.2    | 4.8    | 4.8    | 9.7    | 13.0   | 15.1   | 15.1   |
| 87.5° | 54.8   | 9.7    | 8.2    | 6.9    | 6.2    | 4.8    | 4.8    | 9.7    | 12.3   | 14.4   | 15.1   |
| 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)