

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P633074

Luminaire Tested: GWS-SA2E-722-U-AFL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633074  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2E-722-U-AFL-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND  
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (32) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

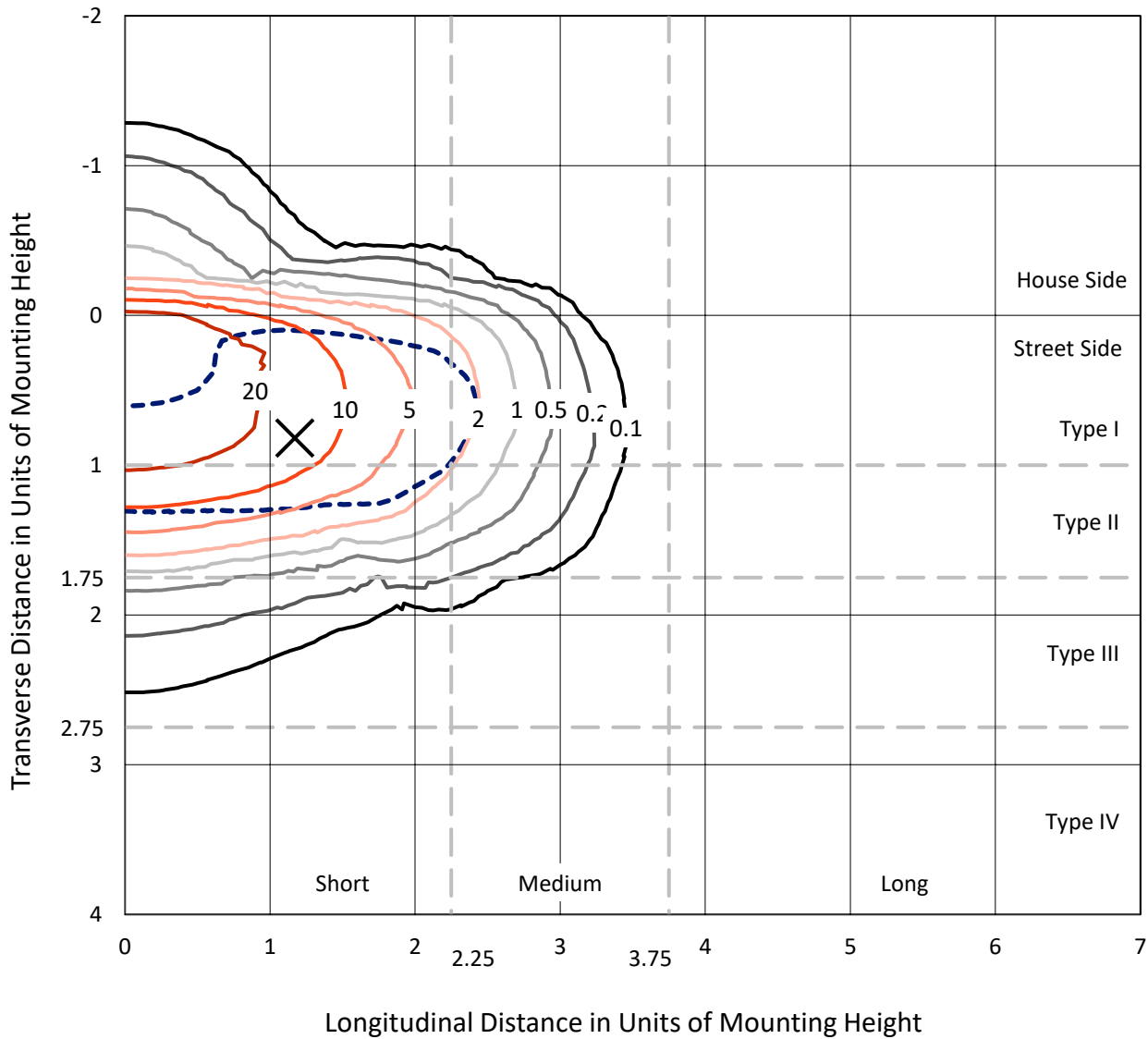
Lumens per Lamp: N/A  
Luminaire Lumens: 9013 lumens  
Efficiency: N/A  
Efficacy: 83.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

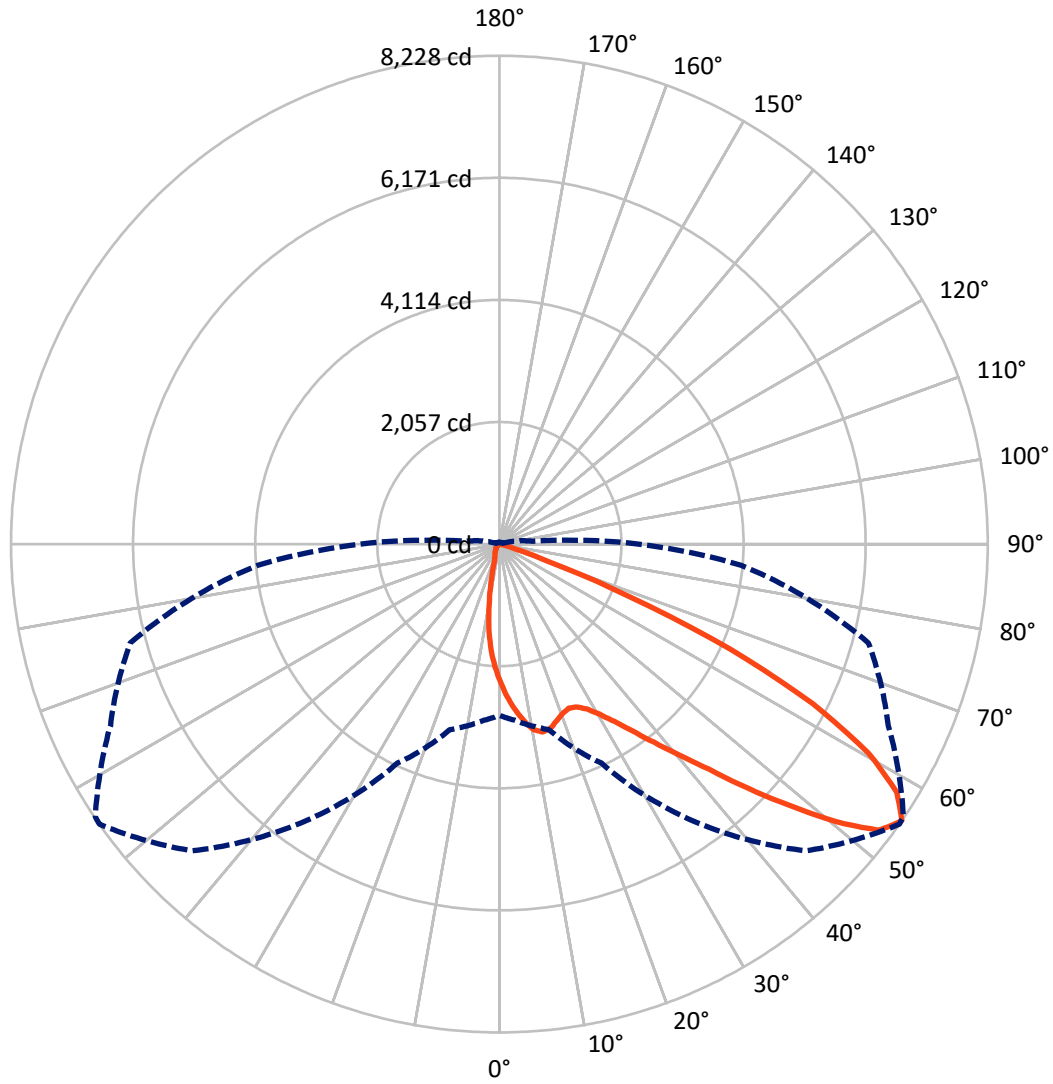
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 30.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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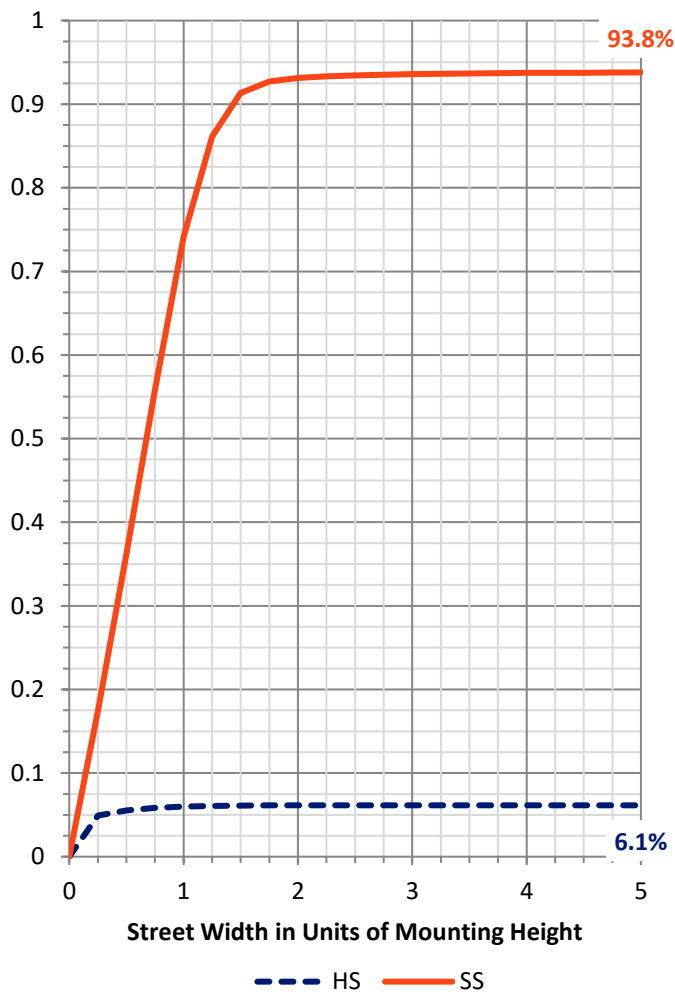
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 556.1    | 0.0    | 556.1  |
|                    | % Fixture | 6.2      | 0.0    | 6.2    |
| <b>Street Side</b> | Lumens    | 8456.9   | 0.0    | 8456.9 |
|                    | % Fixture | 93.8     | 0.0    | 93.8   |
| <b>Total</b>       | Lumens    | 9013.0   | 0.0    | 9013.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 205.8  | 2.3       |
| 10°-20°   | 496.1  | 5.5       |
| 20°-30°   | 826.2  | 9.2       |
| 30°-40°   | 1407.9 | 15.6      |
| 40°-50°   | 2298.2 | 25.5      |
| 50°-60°   | 2406.1 | 26.7      |
| 60°-70°   | 1213.6 | 13.5      |
| 70°-80°   | 153.3  | 1.7       |
| 80°-90°   | 5.8    | 0.1       |
| 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°    | 9013.0 | 100.0     |
| 0°-180°   | 9013.0 | 100.0     |

**Coefficient of Utilization**



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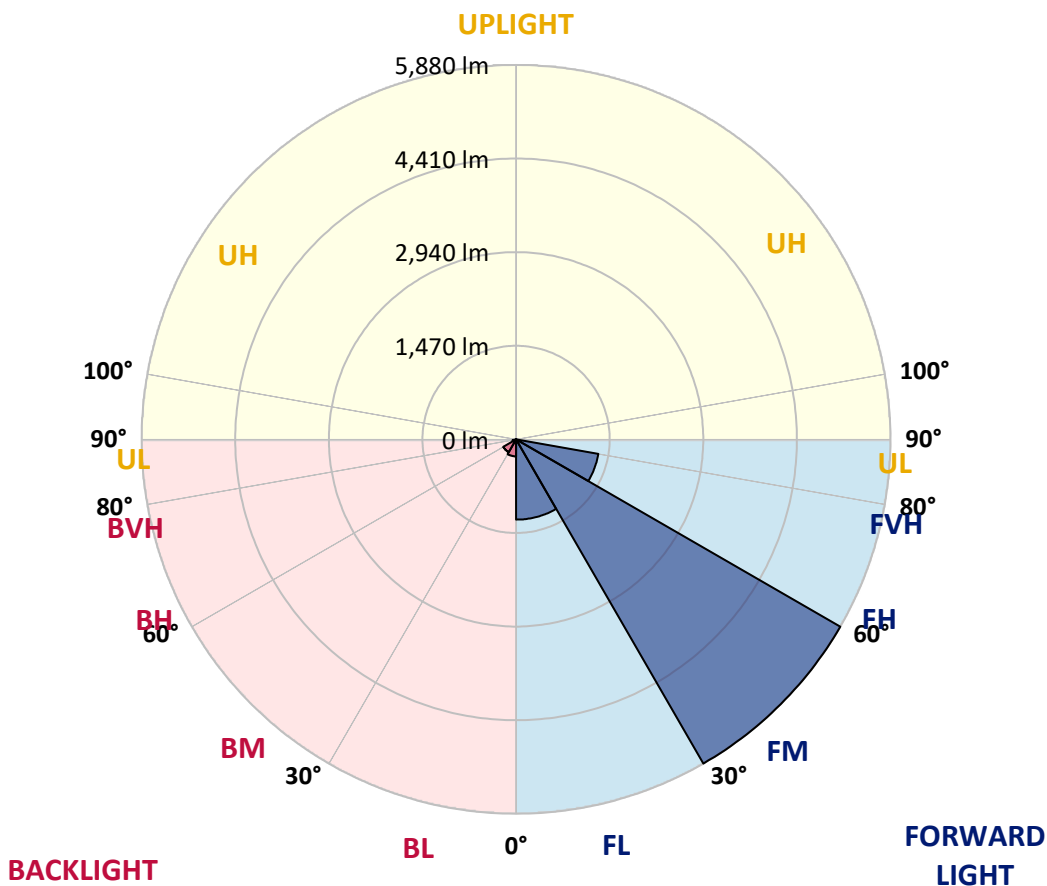
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1260.8 | 14.0      |                         |      |         |
| FM (30°-60°)   | 5879.7 | 65.2      |                         |      |         |
| FH (60°-80°)   | 1311.1 | 14.5      |                         |      | G1/1800 |
| FVH (80°-90°)  | 5.3    | 0.1       |                         |      | G0/10   |
| BL (0°-30°)    | 267.3  | 3.0       | B1/500                  |      |         |
| BM (30°-60°)   | 232.5  | 2.6       | B1/1000                 |      |         |
| BH (60°-80°)   | 55.8   | 0.6       | B0/110                  |      | G0/110  |
| BVH (80°-90°)  | 0.5    | 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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 56°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2328.4 | 2328.4 | 2328.4 | 2328.4 | 2328.4 | 2328.4 | 2328.4 | 2328.4 | 2328.4 | 2328.4 | 2328.4 |
| 2.5°  | 2714.4 | 2701.4 | 2721.4 | 2698.3 | 2659.0 | 2625.8 | 2582.7 | 2567.3 | 2497.9 | 2432.4 | 2369.3 |
| 5°    | 3044.2 | 3048.1 | 3041.9 | 3009.5 | 2954.1 | 2892.4 | 2805.4 | 2786.1 | 2665.1 | 2540.3 | 2405.5 |
| 7.5°  | 3125.9 | 3123.6 | 3136.7 | 3149.0 | 3139.8 | 3108.9 | 3014.2 | 2994.9 | 2844.7 | 2657.4 | 2461.0 |
| 10°   | 2873.9 | 2875.5 | 2902.4 | 2985.7 | 3088.9 | 3196.0 | 3181.4 | 3170.6 | 3023.4 | 2790.0 | 2522.6 |
| 12.5° | 2518.0 | 2531.8 | 2560.3 | 2679.0 | 2853.9 | 3097.4 | 3248.4 | 3259.2 | 3187.5 | 2935.6 | 2595.0 |
| 15°   | 2363.9 | 2367.0 | 2390.1 | 2461.7 | 2591.9 | 2892.4 | 3219.9 | 3249.9 | 3324.7 | 3082.0 | 2673.6 |
| 17.5° | 2360.0 | 2363.9 | 2373.9 | 2405.5 | 2490.2 | 2731.4 | 3128.2 | 3180.6 | 3427.9 | 3239.2 | 2767.6 |
| 20°   | 2504.9 | 2502.6 | 2495.6 | 2478.7 | 2515.7 | 2678.2 | 3043.4 | 3101.2 | 3484.2 | 3392.5 | 2862.4 |
| 22.5° | 2767.6 | 2764.5 | 2733.7 | 2663.6 | 2633.5 | 2726.8 | 3001.8 | 3054.2 | 3518.1 | 3528.9 | 2940.2 |
| 25°   | 3070.4 | 3092.0 | 3034.2 | 2927.9 | 2853.9 | 2850.8 | 3038.8 | 3075.8 | 3547.4 | 3649.8 | 2993.4 |
| 27.5° | 3402.5 | 3409.4 | 3360.1 | 3240.7 | 3133.6 | 3049.6 | 3145.9 | 3173.7 | 3579.7 | 3757.7 | 3023.4 |
| 30°   | 3766.9 | 3764.6 | 3708.4 | 3569.7 | 3439.5 | 3318.5 | 3326.2 | 3337.0 | 3655.2 | 3881.0 | 3056.5 |
| 32.5° | 4222.3 | 4232.3 | 4132.2 | 3943.4 | 3787.0 | 3619.8 | 3562.0 | 3563.5 | 3791.6 | 4039.7 | 3106.6 |
| 35°   | 4841.0 | 4816.4 | 4683.8 | 4414.9 | 4148.3 | 3968.0 | 3869.4 | 3860.9 | 4001.9 | 4253.1 | 3193.7 |
| 37.5° | 5430.4 | 5432.7 | 5294.1 | 4998.2 | 4661.5 | 4377.2 | 4237.7 | 4214.6 | 4297.8 | 4549.0 | 3338.5 |
| 40°   | 5839.6 | 5847.3 | 5789.5 | 5634.6 | 5277.9 | 4875.7 | 4670.7 | 4646.8 | 4681.5 | 4923.5 | 3528.1 |
| 42.5° | 6056.1 | 6077.7 | 6093.8 | 6130.0 | 5859.6 | 5498.2 | 5183.1 | 5180.8 | 5144.6 | 5350.3 | 3747.7 |
| 45°   | 6064.6 | 6096.9 | 6195.5 | 6442.9 | 6473.7 | 6208.6 | 5865.8 | 5814.1 | 5674.7 | 5807.2 | 3944.2 |
| 47.5° | 5729.4 | 5804.1 | 6013.7 | 6503.7 | 6827.3 | 6915.2 | 6575.4 | 6543.8 | 6152.4 | 6168.6 | 4091.3 |
| 50°   | 4948.1 | 5025.9 | 5411.9 | 6191.7 | 6916.7 | 7476.1 | 7354.4 | 7288.9 | 6551.5 | 6407.4 | 4162.2 |
| 52.5° | 4146.8 | 4217.7 | 4479.6 | 5448.9 | 6546.1 | 7652.5 | 8010.8 | 7933.0 | 6909.8 | 6490.6 | 4132.9 |
| 55°   | 2885.5 | 2980.3 | 3236.1 | 4072.8 | 5692.4 | 7308.9 | 8228.1 | 8211.9 | 7229.5 | 6438.2 | 4087.5 |
| 57.5° | 1414.6 | 1508.6 | 1763.7 | 2511.0 | 4216.9 | 6381.2 | 7896.0 | 7981.5 | 7420.6 | 6382.0 | 4050.5 |
| 60°   | 591.0  | 629.5  | 717.3  | 1101.8 | 2359.3 | 4822.5 | 7146.3 | 7265.0 | 7303.5 | 6305.7 | 4046.6 |
| 62.5° | 342.9  | 349.0  | 358.3  | 456.9  | 917.7  | 2764.5 | 5928.2 | 6096.9 | 6687.9 | 6204.8 | 3985.8 |
| 65°   | 258.9  | 261.2  | 257.3  | 280.5  | 379.1  | 1048.6 | 4283.2 | 4512.8 | 5582.2 | 5810.3 | 3745.4 |
| 67.5° | 212.7  | 212.7  | 202.6  | 207.3  | 238.1  | 393.0  | 2364.6 | 2685.2 | 4130.6 | 4775.5 | 3092.8 |
| 70°   | 169.5  | 173.4  | 168.7  | 162.6  | 170.3  | 217.3  | 841.4  | 1043.2 | 2405.5 | 2820.0 | 1803.7 |
| 72.5° | 128.7  | 128.7  | 136.4  | 131.8  | 126.4  | 136.4  | 293.6  | 329.8  | 965.4  | 1175.8 | 651.1  |
| 75°   | 99.4   | 102.5  | 107.9  | 103.2  | 95.5   | 80.9   | 141.0  | 149.5  | 291.2  | 273.5  | 145.6  |
| 77.5° | 50.9   | 51.6   | 68.6   | 75.5   | 70.9   | 49.3   | 61.6   | 67.8   | 94.8   | 84.8   | 53.9   |
| 80°   | 30.8   | 32.4   | 38.5   | 59.3   | 47.0   | 26.2   | 25.4   | 27.0   | 44.7   | 38.5   | 22.3   |
| 82.5° | 13.1   | 13.9   | 21.6   | 21.6   | 19.3   | 10.0   | 10.0   | 10.0   | 21.6   | 20.0   | 9.2    |
| 85°   | 0.0    | 0.0    | 3.9    | 3.1    | 3.1    | 3.9    | 3.9    | 3.9    | 5.4    | 7.7    | 4.6    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 2.3    | 2.3    |
| 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°    | 2328.4 | 2328.4 | 2328.4 | 2328.4 | 2328.4 | 2328.4 | 2328.4 | 2328.4 | 2328.4 | 2328.4 | 2328.4 |
| 2.5°  | 2328.4 | 2279.1 | 2212.9 | 2152.8 | 2071.9 | 2026.4 | 1963.2 | 1911.6 | 1867.7 | 1853.8 | 1847.6 |
| 5°    | 2329.2 | 2244.4 | 2102.7 | 1960.9 | 1786.8 | 1649.6 | 1508.6 | 1396.9 | 1305.2 | 1275.9 | 1268.2 |
| 7.5°  | 2344.6 | 2219.8 | 1990.2 | 1732.8 | 1441.6 | 1201.2 | 986.2  | 793.6  | 704.2  | 674.2  | 668.0  |
| 10°   | 2365.4 | 2199.0 | 1860.0 | 1459.3 | 1040.9 | 732.0  | 518.5  | 395.3  | 336.7  | 304.3  | 309.0  |
| 12.5° | 2392.4 | 2182.0 | 1715.9 | 1163.4 | 688.8  | 402.2  | 285.1  | 238.9  | 226.5  | 220.4  | 217.3  |
| 15°   | 2428.6 | 2162.0 | 1537.1 | 869.9  | 422.2  | 258.9  | 219.6  | 207.3  | 202.6  | 199.6  | 198.8  |
| 17.5° | 2465.6 | 2138.9 | 1355.3 | 611.8  | 280.5  | 215.0  | 197.2  | 191.1  | 188.0  | 185.7  | 184.9  |
| 20°   | 2504.9 | 2099.6 | 1141.9 | 421.5  | 221.1  | 193.4  | 181.8  | 174.9  | 171.0  | 167.2  | 166.4  |
| 22.5° | 2521.8 | 2036.4 | 937.7  | 295.1  | 196.5  | 178.0  | 163.3  | 154.9  | 150.2  | 147.2  | 147.2  |
| 25°   | 2505.6 | 1933.9 | 726.6  | 224.2  | 178.8  | 161.0  | 146.4  | 137.1  | 133.3  | 130.2  | 130.2  |
| 27.5° | 2462.5 | 1802.2 | 530.1  | 185.7  | 159.5  | 143.3  | 129.4  | 121.0  | 117.9  | 116.3  | 116.3  |
| 30°   | 2414.7 | 1635.8 | 373.7  | 159.5  | 137.9  | 124.8  | 113.3  | 107.9  | 107.1  | 105.6  | 105.6  |
| 32.5° | 2373.9 | 1480.1 | 257.3  | 140.2  | 121.7  | 108.6  | 100.9  | 98.6   | 99.4   | 97.9   | 98.6   |
| 35°   | 2351.5 | 1327.6 | 191.1  | 124.8  | 108.6  | 96.3   | 92.5   | 92.5   | 92.5   | 91.7   | 91.7   |
| 37.5° | 2360.8 | 1177.3 | 155.6  | 114.0  | 97.1   | 87.8   | 84.0   | 85.5   | 87.1   | 87.1   | 87.1   |
| 40°   | 2407.0 | 1044.0 | 137.9  | 104.0  | 87.1   | 80.1   | 77.0   | 79.4   | 81.7   | 83.2   | 83.2   |
| 42.5° | 2465.6 | 936.1  | 124.8  | 95.5   | 80.1   | 72.4   | 70.9   | 73.2   | 75.5   | 77.0   | 77.0   |
| 45°   | 2502.6 | 827.5  | 111.7  | 84.8   | 73.2   | 64.0   | 64.0   | 67.0   | 66.3   | 67.0   | 67.0   |
| 47.5° | 2519.5 | 741.2  | 98.6   | 73.2   | 62.4   | 55.5   | 56.2   | 57.8   | 56.2   | 57.8   | 57.8   |
| 50°   | 2477.9 | 654.1  | 87.1   | 60.9   | 51.6   | 48.5   | 50.1   | 49.3   | 49.3   | 52.4   | 52.4   |
| 52.5° | 2401.6 | 589.4  | 77.0   | 51.6   | 43.9   | 43.1   | 44.7   | 41.6   | 42.4   | 42.4   | 41.6   |
| 55°   | 2345.4 | 552.4  | 68.6   | 44.7   | 37.8   | 38.5   | 37.8   | 32.4   | 29.3   | 26.2   | 25.4   |
| 57.5° | 2317.6 | 537.8  | 62.4   | 40.1   | 33.9   | 33.9   | 30.8   | 22.3   | 17.0   | 13.1   | 11.6   |
| 60°   | 2311.5 | 520.1  | 56.2   | 34.7   | 30.0   | 28.5   | 22.3   | 13.1   | 8.5    | 6.2    | 5.4    |
| 62.5° | 2252.9 | 476.9  | 50.9   | 27.7   | 26.2   | 23.1   | 13.9   | 7.7    | 4.6    | 3.1    | 2.3    |
| 65°   | 2061.1 | 392.2  | 45.5   | 21.6   | 20.0   | 17.0   | 8.5    | 4.6    | 2.3    | 0.8    | 0.0    |
| 67.5° | 1639.6 | 278.1  | 40.1   | 16.2   | 13.9   | 10.8   | 5.4    | 3.1    | 0.8    | 0.0    | 0.0    |
| 70°   | 945.4  | 150.2  | 33.1   | 11.6   | 9.2    | 6.9    | 3.9    | 1.5    | 0.0    | 0.0    | 0.0    |
| 72.5° | 315.9  | 70.1   | 25.4   | 7.7    | 6.9    | 5.4    | 2.3    | 0.8    | 0.0    | 0.0    | 0.0    |
| 75°   | 69.3   | 41.6   | 17.0   | 5.4    | 4.6    | 3.9    | 1.5    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 26.2   | 29.3   | 8.5    | 3.9    | 3.1    | 2.3    | 0.8    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 10.0   | 19.3   | 3.9    | 2.3    | 2.3    | 0.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 5.4    | 7.7    | 2.3    | 1.5    | 1.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 3.1    | 3.9    | 1.5    | 0.8    | 0.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 1.5    | 0.8    | 0.8    | 0.8    | 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)