

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: P633305

Luminaire Tested: GWS-SA2E-740-U-SL3-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633305  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-34)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2E-740-U-SL3-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (32) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

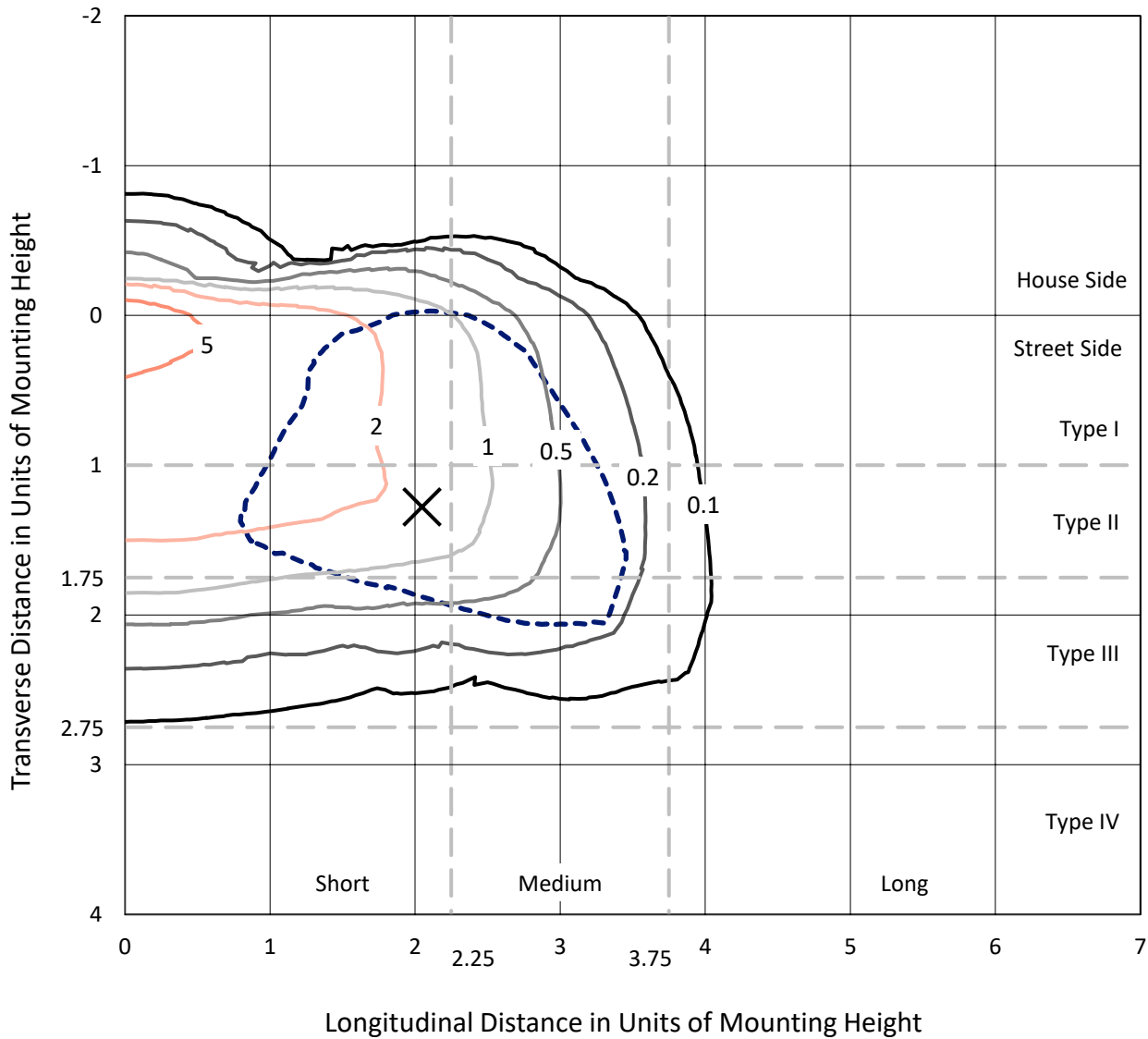
Lumens per Lamp: N/A  
Luminaire Lumens: 11817.6 lumens  
Efficiency: N/A  
Efficacy: 109.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): 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

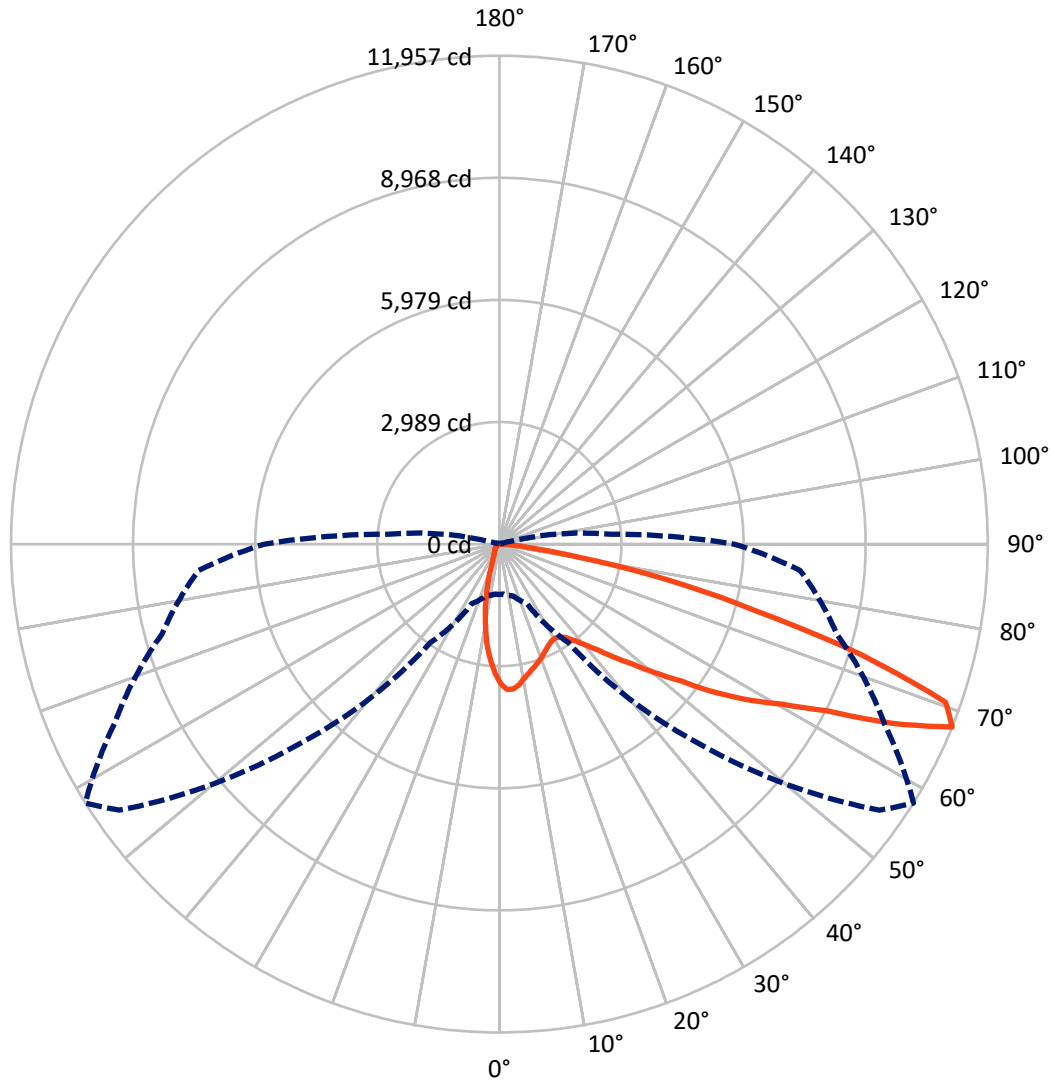
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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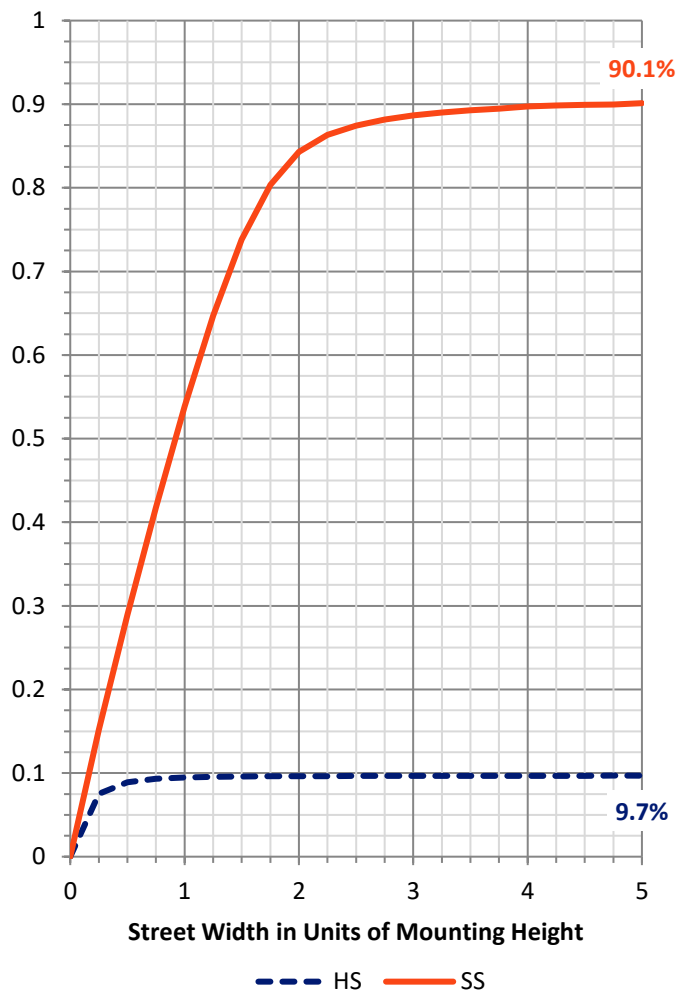
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1154.5   | 0.0    | 1154.5  |
|                    | % Fixture | 9.8      | 0.0    | 9.8     |
| <b>Street Side</b> | Lumens    | 10663.1  | 0.0    | 10663.1 |
|                    | % Fixture | 90.2     | 0.0    | 90.2    |
| <b>Total</b>       | Lumens    | 11817.6  | 0.0    | 11817.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 277.0   | 2.3       |
| 10°-20°   | 576.6   | 4.9       |
| 20°-30°   | 777.6   | 6.6       |
| 30°-40°   | 1092.7  | 9.2       |
| 40°-50°   | 1687.5  | 14.3      |
| 50°-60°   | 2698.6  | 22.8      |
| 60°-70°   | 3195.3  | 27.0      |
| 70°-80°   | 1413.5  | 12.0      |
| 80°-90°   | 98.8    | 0.8       |
| 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°    | 11817.6 | 100.0     |
| 0°-180°   | 11817.6 | 100.0     |

**Coefficient of Utilization**



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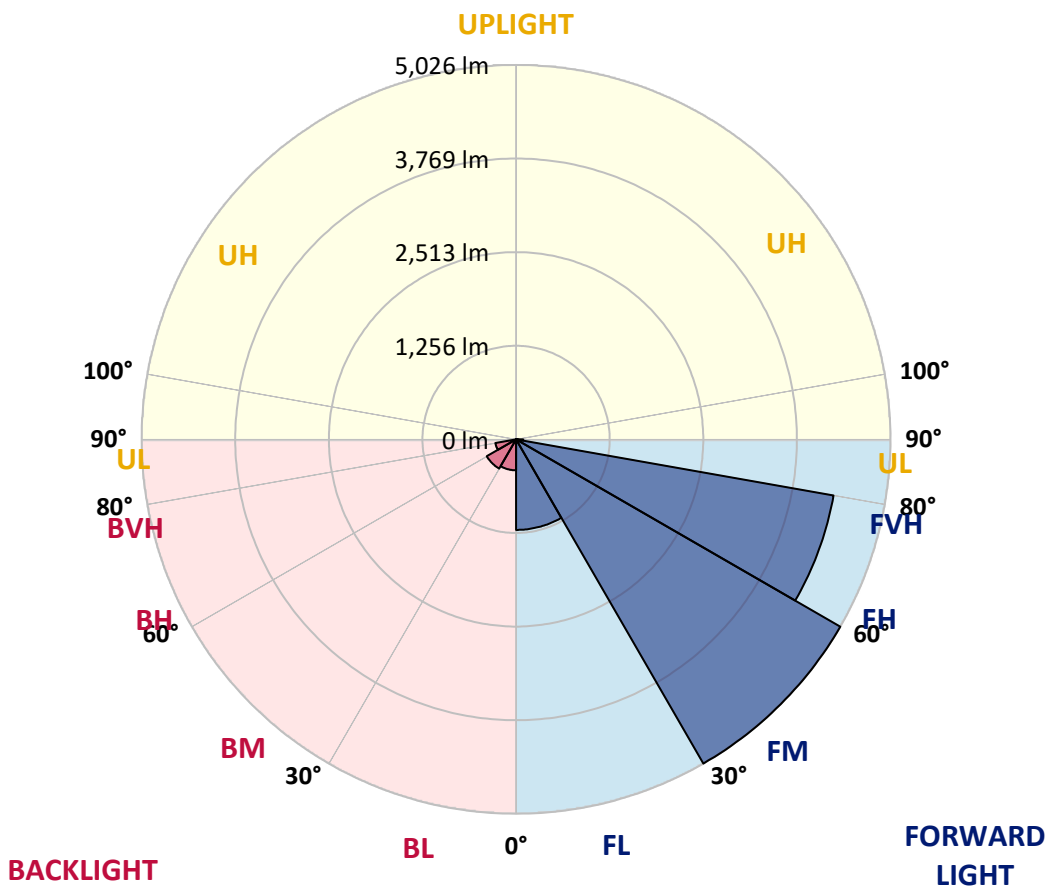
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1215.7 | 10.3      |                         |      |         |
| FM (30°-60°)   | 5025.8 | 42.5      |                         |      |         |
| FH (60°-80°)   | 4327.0 | 36.6      |                         |      | G2/5000 |
| FVH (80°-90°)  | 94.6   | 0.8       |                         |      | G1/100  |
| BL (0°-30°)    | 415.5  | 3.5       | B1/500                  |      |         |
| BM (30°-60°)   | 453.0  | 3.8       | B1/1000                 |      |         |
| BH (60°-80°)   | 281.9  | 2.4       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 4.2    | 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-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 58°     | 65°     | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|--------|--------|
| 0°    | 3408.8 | 3408.8 | 3408.8 | 3408.8 | 3408.8 | 3408.8 | 3408.8  | 3408.8  | 3408.8  | 3408.8 | 3408.8 |
| 2.5°  | 3585.5 | 3591.8 | 3600.2 | 3610.6 | 3608.5 | 3599.1 | 3587.6  | 3561.5  | 3544.7  | 3492.4 | 3428.6 |
| 5°    | 3470.5 | 3469.4 | 3490.3 | 3510.2 | 3545.8 | 3564.6 | 3590.7  | 3566.7  | 3558.3  | 3495.6 | 3392.0 |
| 7.5°  | 3245.6 | 3257.1 | 3281.1 | 3312.5 | 3363.8 | 3419.2 | 3482.0  | 3474.6  | 3499.7  | 3457.9 | 3329.3 |
| 10°   | 3024.9 | 3018.6 | 3056.3 | 3103.3 | 3181.8 | 3252.9 | 3343.9  | 3342.9  | 3408.8  | 3404.6 | 3258.1 |
| 12.5° | 2831.4 | 2830.3 | 2859.6 | 2913.0 | 3005.0 | 3104.4 | 3227.8  | 3230.9  | 3312.5  | 3346.0 | 3197.5 |
| 15°   | 2668.2 | 2670.3 | 2698.6 | 2754.0 | 2849.2 | 2970.5 | 3113.8  | 3139.9  | 3232.0  | 3300.0 | 3137.8 |
| 17.5° | 2552.1 | 2553.2 | 2569.9 | 2618.0 | 2711.1 | 2840.8 | 3013.4  | 3048.9  | 3167.1  | 3265.5 | 3089.7 |
| 20°   | 2498.8 | 2494.6 | 2497.7 | 2521.8 | 2594.0 | 2712.1 | 2910.9  | 2956.9  | 3107.5  | 3241.4 | 3045.8 |
| 22.5° | 2506.1 | 2499.8 | 2485.2 | 2482.0 | 2514.5 | 2604.4 | 2802.1  | 2858.6  | 3042.7  | 3226.8 | 3006.1 |
| 25°   | 2570.9 | 2557.3 | 2536.4 | 2505.0 | 2492.5 | 2537.5 | 2706.9  | 2765.5  | 2982.0  | 3227.8 | 2975.7 |
| 27.5° | 2670.3 | 2655.7 | 2629.5 | 2587.7 | 2538.5 | 2519.7 | 2642.1  | 2697.5  | 2939.1  | 3251.9 | 2961.1 |
| 30°   | 2796.9 | 2785.4 | 2760.3 | 2710.1 | 2644.2 | 2566.8 | 2628.5  | 2674.5  | 2918.2  | 3301.0 | 2967.4 |
| 32.5° | 2946.4 | 2938.1 | 2917.2 | 2871.1 | 2795.8 | 2677.6 | 2674.5  | 2710.1  | 2934.9  | 3372.1 | 2991.4 |
| 35°   | 3090.8 | 3093.9 | 3095.0 | 3069.9 | 2989.3 | 2846.0 | 2801.1  | 2813.6  | 3004.0  | 3478.8 | 3045.8 |
| 37.5° | 3246.6 | 3239.3 | 3277.0 | 3294.7 | 3217.3 | 3064.6 | 2996.6  | 2997.7  | 3135.8  | 3636.8 | 3148.3 |
| 40°   | 3364.8 | 3366.9 | 3448.5 | 3521.7 | 3489.3 | 3341.8 | 3244.5  | 3243.5  | 3338.7  | 3853.3 | 3313.6 |
| 42.5° | 3475.7 | 3489.3 | 3609.6 | 3735.1 | 3780.1 | 3649.3 | 3579.2  | 3553.1  | 3623.2  | 4146.1 | 3561.5 |
| 45°   | 3593.9 | 3613.8 | 3782.2 | 3961.0 | 4079.2 | 4001.8 | 3946.4  | 3956.8  | 3965.2  | 4487.1 | 3895.1 |
| 47.5° | 3731.9 | 3744.5 | 3952.6 | 4204.7 | 4425.4 | 4405.5 | 4408.7  | 4396.1  | 4391.9  | 4917.0 | 4336.5 |
| 50°   | 3899.3 | 3928.6 | 4168.1 | 4469.3 | 4770.6 | 4902.4 | 4946.3  | 4951.5  | 4883.5  | 5385.6 | 4793.6 |
| 52.5° | 4254.9 | 4290.5 | 4495.5 | 4759.1 | 5147.1 | 5424.3 | 5603.2  | 5567.6  | 5463.0  | 5839.5 | 5294.6 |
| 55°   | 4674.3 | 4701.5 | 4899.2 | 5172.2 | 5607.3 | 5996.4 | 6421.1  | 6406.4  | 6150.2  | 6317.5 | 5706.7 |
| 57.5° | 4714.1 | 4744.4 | 5050.9 | 5469.3 | 6198.3 | 6703.5 | 7150.1  | 7197.2  | 6821.7  | 6656.4 | 6074.9 |
| 60°   | 4267.5 | 4329.2 | 4747.6 | 5310.3 | 6424.2 | 7654.3 | 7949.2  | 7958.6  | 7314.3  | 7000.5 | 6524.6 |
| 62.5° | 3420.3 | 3449.5 | 3871.1 | 4605.3 | 6075.9 | 8208.6 | 9169.8  | 8971.1  | 7947.1  | 7532.9 | 7236.9 |
| 65°   | 1792.8 | 1912.0 | 2279.1 | 3091.8 | 4927.5 | 8015.1 | 10638.4 | 10584.0 | 9085.1  | 8295.4 | 7791.3 |
| 67.5° | 1230.0 | 1229.0 | 1315.8 | 1611.8 | 2938.1 | 6901.2 | 11359.0 | 11957.3 | 10400.9 | 8556.9 | 7389.6 |
| 70°   | 936.1  | 939.3  | 1016.7 | 1209.1 | 1521.9 | 4593.8 | 10568.3 | 11591.2 | 10645.7 | 7769.3 | 5976.6 |
| 72.5° | 621.3  | 627.6  | 756.2  | 976.9  | 1215.4 | 2251.9 | 8212.8  | 9274.4  | 8957.5  | 6240.1 | 4206.8 |
| 75°   | 371.3  | 376.5  | 468.6  | 710.2  | 1080.5 | 1260.4 | 5218.2  | 6411.7  | 6165.9  | 4300.9 | 2255.1 |
| 77.5° | 152.7  | 156.9  | 240.6  | 442.4  | 790.7  | 979.0  | 2885.8  | 4195.3  | 3693.2  | 1710.1 | 616.1  |
| 80°   | 63.8   | 65.9   | 116.1  | 309.6  | 570.0  | 614.0  | 1336.7  | 1971.6  | 1513.5  | 368.2  | 188.3  |
| 82.5° | 23.0   | 24.1   | 42.9   | 170.5  | 354.6  | 462.3  | 674.6   | 779.2   | 426.7   | 120.3  | 101.5  |
| 85°   | 1.0    | 1.0    | 10.5   | 57.5   | 134.9  | 130.7  | 386.0   | 373.4   | 141.2   | 50.2   | 60.7   |
| 87.5° | 0.0    | 0.0    | 1.0    | 1.0    | 2.1    | 5.2    | 36.6    | 64.8    | 30.3    | 12.6   | 26.1   |
| 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°    | 3408.8 | 3408.8 | 3408.8 | 3408.8 | 3408.8 | 3408.8 | 3408.8 | 3408.8 | 3408.8 | 3408.8 | 3408.8 |
| 2.5°  | 3386.8 | 3331.4 | 3270.7 | 3214.2 | 3124.3 | 3070.9 | 3005.0 | 2975.7 | 2933.9 | 2923.4 | 2929.7 |
| 5°    | 3317.8 | 3222.6 | 3077.2 | 2945.4 | 2774.9 | 2637.9 | 2499.8 | 2441.2 | 2365.9 | 2315.7 | 2294.8 |
| 7.5°  | 3220.5 | 3096.0 | 2869.0 | 2629.5 | 2395.2 | 2145.2 | 1954.9 | 1829.4 | 1715.4 | 1652.6 | 1640.0 |
| 10°   | 3122.2 | 2960.0 | 2634.7 | 2291.7 | 1928.7 | 1629.6 | 1372.3 | 1181.9 | 1027.1 | 957.0  | 902.7  |
| 12.5° | 3020.7 | 2818.8 | 2396.3 | 1948.6 | 1527.1 | 1119.2 | 801.2  | 616.1  | 505.2  | 461.3  | 468.6  |
| 15°   | 2927.6 | 2682.9 | 2159.9 | 1605.5 | 1075.2 | 675.7  | 442.4  | 373.4  | 347.3  | 338.9  | 337.8  |
| 17.5° | 2838.7 | 2554.2 | 1924.5 | 1271.9 | 709.2  | 414.2  | 338.9  | 322.2  | 314.8  | 310.6  | 310.6  |
| 20°   | 2758.2 | 2430.8 | 1694.4 | 958.1  | 458.1  | 328.4  | 306.5  | 298.1  | 291.8  | 288.7  | 288.7  |
| 22.5° | 2682.9 | 2311.5 | 1469.6 | 677.8  | 337.8  | 295.0  | 281.4  | 273.0  | 265.7  | 261.5  | 261.5  |
| 25°   | 2614.9 | 2203.8 | 1255.1 | 466.5  | 290.8  | 269.9  | 255.2  | 245.8  | 233.2  | 225.9  | 225.9  |
| 27.5° | 2565.7 | 2107.6 | 1049.1 | 339.9  | 262.5  | 242.7  | 225.9  | 213.4  | 199.8  | 191.4  | 189.3  |
| 30°   | 2536.4 | 2026.0 | 840.9  | 279.3  | 236.4  | 216.5  | 197.7  | 182.0  | 166.3  | 157.9  | 156.9  |
| 32.5° | 2519.7 | 1950.7 | 650.6  | 243.7  | 214.4  | 191.4  | 170.5  | 153.8  | 138.1  | 128.7  | 127.6  |
| 35°   | 2526.0 | 1892.1 | 487.4  | 219.6  | 193.5  | 169.4  | 146.4  | 129.7  | 116.1  | 107.7  | 105.6  |
| 37.5° | 2580.4 | 1866.0 | 366.1  | 200.8  | 175.7  | 150.6  | 126.6  | 110.9  | 98.3   | 92.0   | 91.0   |
| 40°   | 2686.0 | 1871.2 | 287.6  | 186.2  | 161.1  | 131.8  | 108.8  | 94.1   | 84.7   | 79.5   | 78.4   |
| 42.5° | 2850.2 | 1915.1 | 237.4  | 173.6  | 145.4  | 115.1  | 94.1   | 82.6   | 73.2   | 68.0   | 66.9   |
| 45°   | 3095.0 | 2006.1 | 207.1  | 159.0  | 128.7  | 99.4   | 81.6   | 71.1   | 62.8   | 56.5   | 55.4   |
| 47.5° | 3449.5 | 2164.1 | 187.2  | 145.4  | 114.0  | 85.8   | 70.1   | 59.6   | 52.3   | 47.1   | 46.0   |
| 50°   | 3827.1 | 2353.4 | 170.5  | 131.8  | 101.5  | 74.3   | 59.6   | 49.2   | 42.9   | 37.7   | 36.6   |
| 52.5° | 4229.8 | 2557.3 | 157.9  | 119.2  | 90.0   | 63.8   | 50.2   | 40.8   | 34.5   | 29.3   | 28.2   |
| 55°   | 4616.8 | 2762.4 | 143.3  | 110.9  | 76.4   | 54.4   | 41.8   | 33.5   | 27.2   | 23.0   | 23.0   |
| 57.5° | 4993.4 | 2950.6 | 127.6  | 97.3   | 62.8   | 46.0   | 34.5   | 27.2   | 22.0   | 18.8   | 17.8   |
| 60°   | 5443.1 | 3211.1 | 109.8  | 82.6   | 52.3   | 38.7   | 28.2   | 22.0   | 17.8   | 14.6   | 14.6   |
| 62.5° | 6111.5 | 3482.0 | 94.1   | 69.0   | 43.9   | 32.4   | 23.0   | 17.8   | 14.6   | 12.6   | 11.5   |
| 65°   | 6330.1 | 3335.5 | 79.5   | 56.5   | 35.6   | 26.1   | 18.8   | 15.7   | 12.6   | 11.5   | 10.5   |
| 67.5° | 5746.4 | 2734.1 | 65.9   | 46.0   | 29.3   | 22.0   | 16.7   | 13.6   | 11.5   | 10.5   | 9.4    |
| 70°   | 4484.0 | 1940.2 | 51.3   | 34.5   | 24.1   | 17.8   | 14.6   | 12.6   | 10.5   | 9.4    | 9.4    |
| 72.5° | 3050.0 | 1147.4 | 40.8   | 26.1   | 19.9   | 15.7   | 12.6   | 11.5   | 10.5   | 9.4    | 8.4    |
| 75°   | 1502.0 | 407.9  | 31.4   | 19.9   | 15.7   | 13.6   | 11.5   | 10.5   | 9.4    | 8.4    | 8.4    |
| 77.5° | 404.8  | 113.0  | 24.1   | 15.7   | 12.6   | 10.5   | 10.5   | 10.5   | 9.4    | 7.3    | 7.3    |
| 80°   | 137.0  | 47.1   | 17.8   | 11.5   | 10.5   | 8.4    | 7.3    | 9.4    | 8.4    | 7.3    | 6.3    |
| 82.5° | 75.3   | 23.0   | 12.6   | 9.4    | 7.3    | 6.3    | 6.3    | 6.3    | 6.3    | 5.2    | 5.2    |
| 85°   | 48.1   | 12.6   | 8.4    | 7.3    | 7.3    | 5.2    | 4.2    | 4.2    | 3.1    | 3.1    | 3.1    |
| 87.5° | 22.0   | 7.3    | 7.3    | 6.3    | 6.3    | 5.2    | 3.1    | 2.1    | 1.0    | 1.0    | 1.0    |
| 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)