

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: P637836

Luminaire Tested: GWS-SA4D-750-U-T3-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637836  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4D-750-U-T3-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

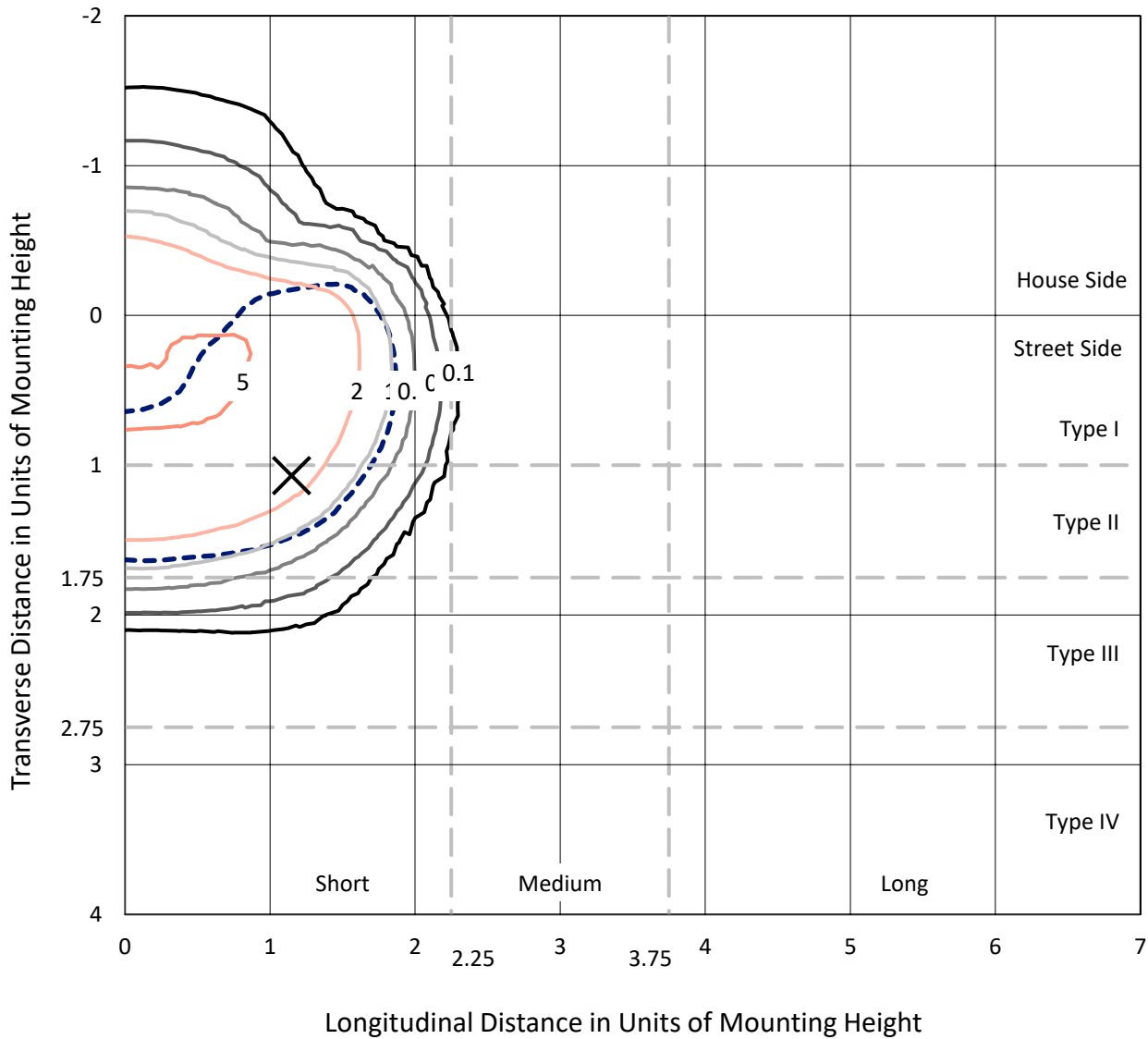
Lumens per Lamp: N/A  
Luminaire Lumens: 15468.8 lumens  
Efficiency: N/A  
Efficacy: 95.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

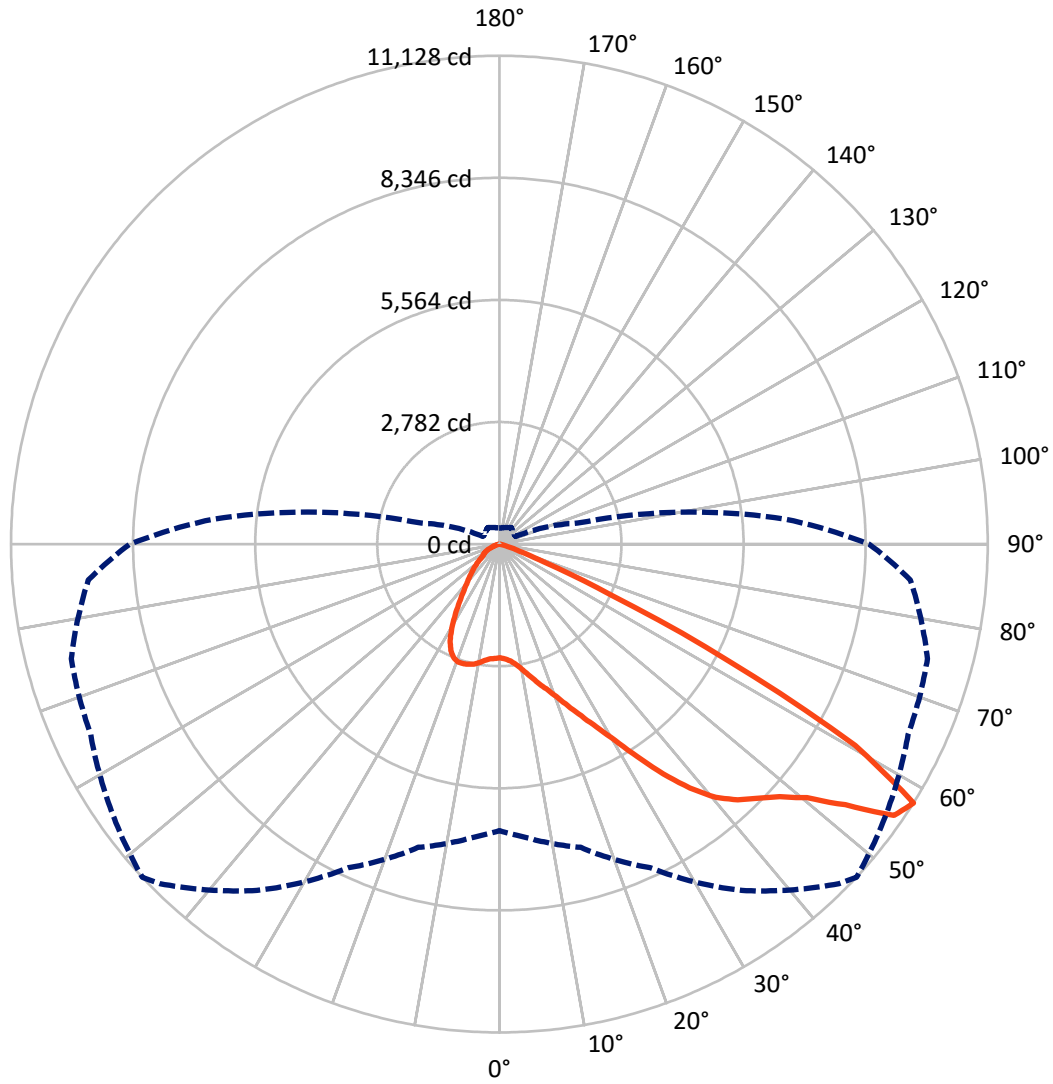
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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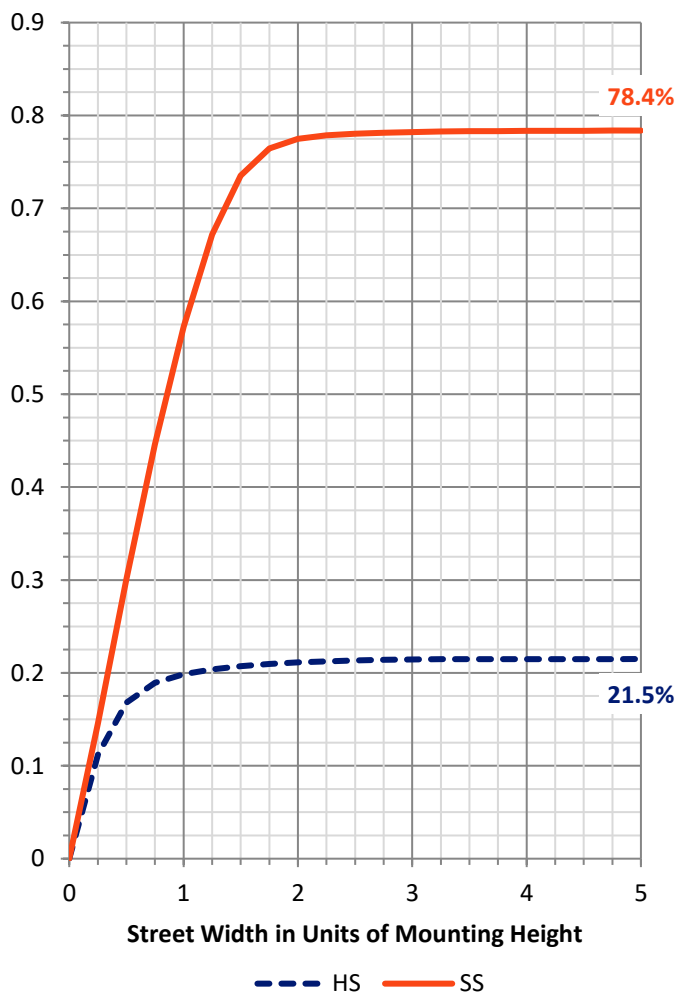
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3355.9   | 0.0    | 3355.9  |
|                    | % Fixture | 21.7     | 0.0    | 21.7    |
| <b>Street Side</b> | Lumens    | 12112.9  | 0.0    | 12112.9 |
|                    | % Fixture | 78.3     | 0.0    | 78.3    |
| <b>Total</b>       | Lumens    | 15468.8  | 0.0    | 15468.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 257.6   | 1.7       |
| 10°-20°   | 869.3   | 5.6       |
| 20°-30°   | 1614.1  | 10.4      |
| 30°-40°   | 2583.8  | 16.7      |
| 40°-50°   | 3776.9  | 24.4      |
| 50°-60°   | 4661.4  | 30.1      |
| 60°-70°   | 1557.6  | 10.1      |
| 70°-80°   | 145.1   | 0.9       |
| 80°-90°   | 3.0     | 0.0       |
| 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°    | 15468.8 | 100.0     |
| 0°-180°   | 15468.8 | 100.0     |

**Coefficient of Utilization**



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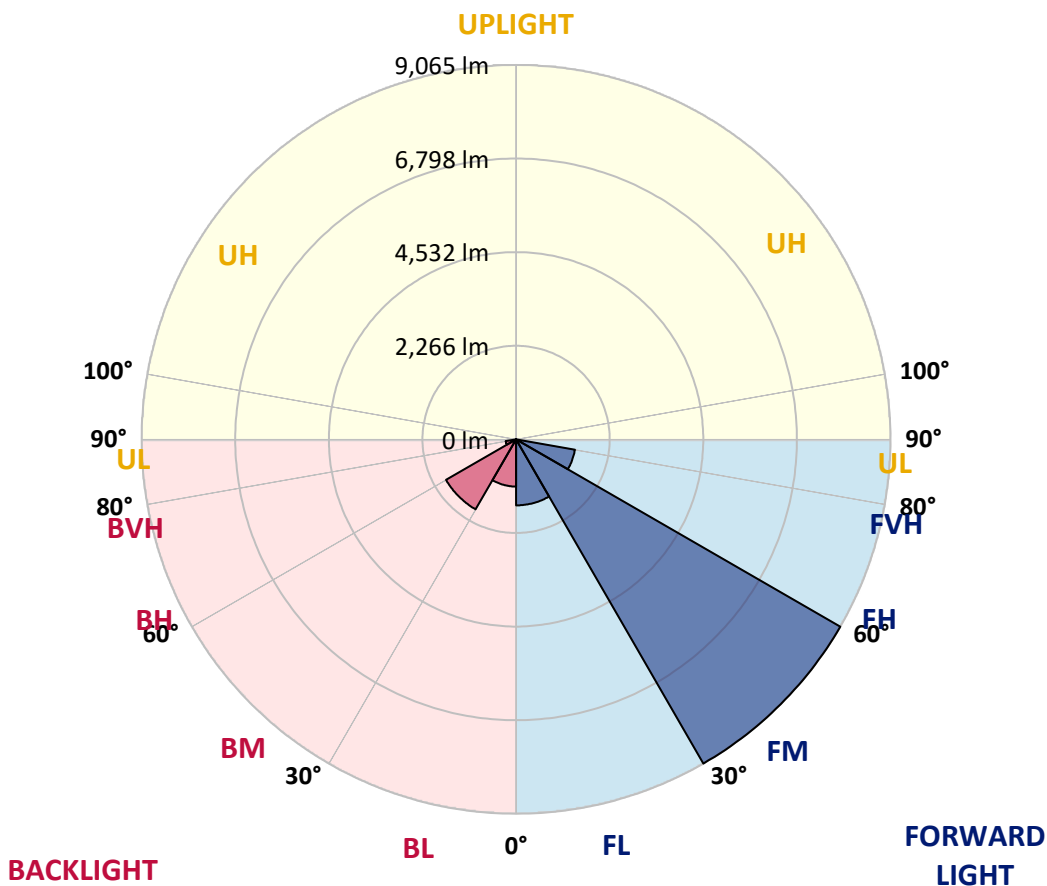
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1598.7 | 10.3      |                         |      |         |
| FM (30°-60°)   | 9064.6 | 58.6      |                         |      |         |
| FH (60°-80°)   | 1447.6 | 9.4       |                         |      | G1/1800 |
| FVH (80°-90°)  | 2.1    | 0.0       |                         |      | G0/10   |
| BL (0°-30°)    | 1142.3 | 7.4       | B3/2500                 |      |         |
| BM (30°-60°)   | 1957.5 | 12.7      | B2/2500                 |      |         |
| BH (60°-80°)   | 255.1  | 1.6       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 1.0    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 45°     | 47°     | 55°     | 65°     | 75°     | 85°    |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|--------|
| 0°    | 2589.5 | 2589.5 | 2589.5 | 2589.5 | 2589.5  | 2589.5  | 2589.5  | 2589.5  | 2589.5  | 2589.5  | 2589.5 |
| 2.5°  | 2616.4 | 2614.6 | 2612.8 | 2623.6 | 2620.0  | 2618.2  | 2621.8  | 2621.8  | 2621.8  | 2611.0  | 2589.5 |
| 5°    | 2679.3 | 2679.3 | 2677.5 | 2688.3 | 2679.3  | 2673.9  | 2675.7  | 2675.7  | 2668.5  | 2648.8  | 2621.8 |
| 7.5°  | 2778.0 | 2774.5 | 2770.9 | 2781.6 | 2772.7  | 2770.9  | 2774.5  | 2763.7  | 2751.1  | 2718.8  | 2681.1 |
| 10°   | 2919.9 | 2919.9 | 2914.5 | 2925.3 | 2918.1  | 2914.5  | 2914.5  | 2907.3  | 2884.0  | 2833.7  | 2778.0 |
| 12.5° | 3115.7 | 3106.7 | 3094.1 | 3085.1 | 3081.5  | 3079.7  | 3081.5  | 3070.8  | 3045.6  | 2981.0  | 2903.8 |
| 15°   | 3329.3 | 3322.2 | 3302.4 | 3288.0 | 3268.3  | 3264.7  | 3275.5  | 3266.5  | 3241.4  | 3153.4  | 3043.8 |
| 17.5° | 3598.7 | 3607.7 | 3557.4 | 3526.9 | 3469.4  | 3465.8  | 3469.4  | 3483.8  | 3465.8  | 3352.7  | 3192.9 |
| 20°   | 3828.6 | 3835.8 | 3798.0 | 3776.5 | 3724.4  | 3701.1  | 3708.3  | 3731.6  | 3711.8  | 3579.0  | 3356.3 |
| 22.5° | 4074.6 | 4083.6 | 4044.1 | 3999.2 | 3975.8  | 3975.8  | 4002.8  | 4035.1  | 4008.1  | 3834.0  | 3543.0 |
| 25°   | 4369.1 | 4376.3 | 4344.0 | 4284.7 | 4243.4  | 4295.5  | 4335.0  | 4421.2  | 4376.3  | 4139.2  | 3763.9 |
| 27.5° | 4706.7 | 4708.5 | 4661.8 | 4600.8 | 4579.2  | 4676.2  | 4715.7  | 4848.6  | 4830.6  | 4482.2  | 3997.4 |
| 30°   | 5067.7 | 5069.4 | 5058.7 | 5017.4 | 4997.6  | 5125.1  | 5179.0  | 5371.1  | 5358.6  | 4907.8  | 4315.2 |
| 32.5° | 5443.0 | 5443.0 | 5462.7 | 5459.1 | 5482.5  | 5690.8  | 5777.0  | 5996.1  | 5983.5  | 5428.6  | 4710.3 |
| 35°   | 5820.1 | 5821.9 | 5856.0 | 5942.2 | 6039.2  | 6315.7  | 6428.8  | 6694.6  | 6665.9  | 6051.7  | 5214.9 |
| 37.5° | 6249.3 | 6231.3 | 6278.0 | 6407.3 | 6622.8  | 6942.4  | 7050.2  | 7303.4  | 7271.1  | 6689.2  | 5873.9 |
| 40°   | 6766.4 | 6734.1 | 6734.1 | 6885.0 | 7129.2  | 7497.3  | 7588.9  | 7714.6  | 7605.1  | 7204.6  | 6520.4 |
| 42.5° | 7337.5 | 7307.0 | 7267.5 | 7400.3 | 7605.1  | 7892.4  | 7967.8  | 7933.7  | 7843.9  | 7691.3  | 7256.7 |
| 45°   | 7915.7 | 7869.0 | 7896.0 | 7976.8 | 8095.3  | 8231.8  | 8260.5  | 8102.5  | 8061.2  | 8104.3  | 7865.5 |
| 47.5° | 8355.7 | 8323.4 | 8389.8 | 8502.9 | 8599.9  | 8619.7  | 8599.9  | 8380.8  | 8377.2  | 8529.9  | 8287.5 |
| 50°   | 8502.9 | 8506.5 | 8689.7 | 8937.5 | 9093.8  | 9109.9  | 9083.0  | 8831.6  | 8797.5  | 8842.3  | 8515.5 |
| 52.5° | 8517.3 | 8531.7 | 8799.3 | 9271.5 | 9697.1  | 9891.1  | 9869.5  | 9598.4  | 9264.4  | 9215.9  | 8860.3 |
| 55°   | 8170.7 | 8255.1 | 8628.7 | 9318.2 | 10223.3 | 10842.8 | 10914.7 | 10395.7 | 9900.1  | 9858.8  | 9602.0 |
| 57.5° | 6531.2 | 6703.6 | 7154.3 | 8136.6 | 9636.1  | 10941.6 | 11128.4 | 10754.8 | 10275.4 | 10099.4 | 9402.6 |
| 60°   | 3904.0 | 4117.7 | 4550.5 | 5755.4 | 7333.9  | 8993.2  | 9314.6  | 9366.7  | 9145.8  | 8637.6  | 7213.6 |
| 62.5° | 1675.4 | 1657.5 | 2190.8 | 3113.9 | 4361.9  | 5715.9  | 5861.4  | 6087.6  | 6279.8  | 5748.2  | 4378.1 |
| 65°   | 574.6  | 624.9  | 869.2  | 1404.3 | 2183.7  | 2654.1  | 2783.4  | 2986.4  | 3259.3  | 2690.1  | 1603.6 |
| 67.5° | 355.6  | 377.1  | 501.0  | 829.6  | 1178.0  | 1160.1  | 1102.6  | 1070.3  | 1041.5  | 712.9   | 440.0  |
| 70°   | 258.6  | 276.5  | 352.0  | 571.1  | 791.9   | 556.7   | 483.1   | 391.5   | 434.6   | 400.5   | 312.5  |
| 72.5° | 174.2  | 188.6  | 242.4  | 346.6  | 405.8   | 271.2   | 251.4   | 285.5   | 344.8   | 328.6   | 255.0  |
| 75°   | 104.2  | 113.1  | 138.3  | 168.8  | 165.2   | 140.1   | 141.9   | 201.1   | 264.0   | 246.0   | 181.4  |
| 77.5° | 71.8   | 75.4   | 91.6   | 109.5  | 80.8    | 43.1    | 39.5    | 55.7    | 89.8    | 89.8    | 61.1   |
| 80°   | 18.0   | 23.3   | 23.3   | 14.4   | 12.6    | 10.8    | 10.8    | 16.2    | 25.1    | 18.0    | 9.0    |
| 82.5° | 1.8    | 1.8    | 1.8    | 1.8    | 1.8     | 1.8     | 1.8     | 3.6     | 3.6     | 3.6     | 3.6    |
| 85°   | 0.0    | 0.0    | 1.8    | 1.8    | 1.8     | 1.8     | 1.8     | 1.8     | 3.6     | 3.6     | 3.6    |
| 87.5° | 0.0    | 0.0    | 1.8    | 1.8    | 1.8     | 1.8     | 1.8     | 1.8     | 1.8     | 3.6     | 3.6    |
| 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°    | 2589.5 | 2589.5 | 2589.5 | 2589.5 | 2589.5 | 2589.5 | 2589.5 | 2589.5 | 2589.5 | 2589.5 | 2589.5 |
| 2.5°  | 2602.1 | 2580.5 | 2594.9 | 2591.3 | 2602.1 | 2605.7 | 2589.5 | 2585.9 | 2587.7 | 2566.1 | 2559.0 |
| 5°    | 2627.2 | 2602.1 | 2609.2 | 2602.1 | 2614.6 | 2625.4 | 2620.0 | 2627.2 | 2636.2 | 2620.0 | 2612.8 |
| 7.5°  | 2681.1 | 2655.9 | 2654.1 | 2643.4 | 2661.3 | 2668.5 | 2666.7 | 2686.5 | 2704.4 | 2693.6 | 2682.9 |
| 10°   | 2774.5 | 2740.3 | 2736.7 | 2727.8 | 2733.2 | 2738.5 | 2718.8 | 2722.4 | 2738.5 | 2726.0 | 2720.6 |
| 12.5° | 2889.4 | 2848.1 | 2839.1 | 2817.6 | 2817.6 | 2790.6 | 2747.5 | 2738.5 | 2751.1 | 2742.1 | 2733.2 |
| 15°   | 3013.3 | 2957.6 | 2943.3 | 2905.5 | 2869.6 | 2819.4 | 2774.5 | 2763.7 | 2772.7 | 2761.9 | 2754.7 |
| 17.5° | 3151.6 | 3088.7 | 3042.0 | 2975.6 | 2896.6 | 2837.3 | 2787.0 | 2763.7 | 2749.3 | 2727.8 | 2726.0 |
| 20°   | 3288.0 | 3205.4 | 3126.4 | 3020.5 | 2916.3 | 2826.5 | 2743.9 | 2682.9 | 2630.8 | 2598.5 | 2585.9 |
| 22.5° | 3446.1 | 3324.0 | 3196.5 | 3047.4 | 2898.4 | 2761.9 | 2616.4 | 2512.3 | 2422.5 | 2392.0 | 2377.6 |
| 25°   | 3614.9 | 3456.8 | 3266.5 | 3072.6 | 2837.3 | 2618.2 | 2420.7 | 2266.3 | 2147.7 | 2108.2 | 2092.1 |
| 27.5° | 3801.6 | 3584.3 | 3338.3 | 3067.2 | 2711.6 | 2413.5 | 2151.3 | 1959.2 | 1842.5 | 1806.5 | 1819.1 |
| 30°   | 4038.7 | 3749.6 | 3428.1 | 3011.5 | 2523.1 | 2126.2 | 1819.1 | 1657.5 | 1569.5 | 1535.4 | 1537.2 |
| 32.5° | 4354.7 | 3986.6 | 3559.2 | 2893.0 | 2280.6 | 1799.4 | 1530.0 | 1411.5 | 1352.2 | 1307.3 | 1303.7 |
| 35°   | 4807.3 | 4347.5 | 3681.3 | 2702.6 | 1986.1 | 1508.4 | 1312.7 | 1219.3 | 1136.7 | 1084.6 | 1093.6 |
| 37.5° | 5349.6 | 4801.9 | 3747.8 | 2445.8 | 1655.7 | 1282.2 | 1149.3 | 1054.1 | 960.7  | 883.5  | 892.5  |
| 40°   | 5992.5 | 5396.3 | 3742.4 | 2108.2 | 1354.0 | 1127.7 | 1012.8 | 901.5  | 784.7  | 714.7  | 721.9  |
| 42.5° | 6709.0 | 5958.3 | 3625.7 | 1750.9 | 1122.4 | 1002.0 | 881.7  | 741.7  | 628.5  | 585.4  | 587.2  |
| 45°   | 7330.3 | 6414.5 | 3420.9 | 1380.9 | 944.6  | 879.9  | 745.2  | 601.6  | 551.3  | 520.8  | 519.0  |
| 47.5° | 7790.0 | 6748.5 | 3128.2 | 1086.4 | 800.9  | 768.6  | 612.4  | 538.7  | 499.2  | 474.1  | 470.5  |
| 50°   | 8046.8 | 6865.2 | 2805.0 | 851.2  | 677.0  | 651.9  | 547.7  | 488.4  | 461.5  | 445.3  | 441.8  |
| 52.5° | 8391.6 | 7005.3 | 2573.3 | 671.6  | 567.5  | 533.3  | 504.6  | 454.3  | 436.4  | 423.8  | 418.4  |
| 55°   | 8937.5 | 7276.4 | 2372.2 | 533.3  | 472.3  | 465.1  | 475.9  | 434.6  | 423.8  | 404.0  | 396.9  |
| 57.5° | 8423.9 | 6536.6 | 1842.5 | 413.0  | 398.7  | 425.6  | 459.7  | 414.8  | 387.9  | 369.9  | 362.7  |
| 60°   | 5927.8 | 4345.8 | 926.6  | 332.2  | 355.6  | 398.7  | 432.8  | 375.3  | 348.4  | 352.0  | 348.4  |
| 62.5° | 3268.3 | 2174.7 | 416.6  | 278.3  | 308.9  | 352.0  | 369.9  | 325.0  | 307.1  | 337.6  | 343.0  |
| 65°   | 1068.5 | 739.9  | 240.6  | 215.5  | 244.2  | 287.3  | 319.6  | 308.9  | 305.3  | 341.2  | 352.0  |
| 67.5° | 328.6  | 244.2  | 163.4  | 154.4  | 168.8  | 211.9  | 269.4  | 334.0  | 359.2  | 369.9  | 375.3  |
| 70°   | 246.0  | 192.1  | 140.1  | 131.1  | 138.3  | 161.6  | 228.1  | 278.3  | 262.2  | 264.0  | 260.4  |
| 72.5° | 197.5  | 152.6  | 120.3  | 114.9  | 114.9  | 111.3  | 120.3  | 150.8  | 170.6  | 179.6  | 179.6  |
| 75°   | 138.3  | 107.7  | 91.6   | 84.4   | 66.4   | 53.9   | 48.5   | 48.5   | 43.1   | 41.3   | 39.5   |
| 77.5° | 46.7   | 39.5   | 35.9   | 28.7   | 19.8   | 16.2   | 14.4   | 12.6   | 9.0    | 5.4    | 3.6    |
| 80°   | 7.2    | 5.4    | 3.6    | 3.6    | 3.6    | 1.8    | 1.8    | 1.8    | 0.0    | 0.0    | 0.0    |
| 82.5° | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 1.8    | 1.8    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 1.8    | 1.8    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 3.6    | 3.6    | 3.6    | 3.6    | 1.8    | 1.8    | 1.8    | 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)