

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: P638867

Luminaire Tested: GWS-SA4F-760-U-SLL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638867
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-37)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-760-U-SLL-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32172.8 lumens
Efficiency: N/A
Efficacy: 142.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

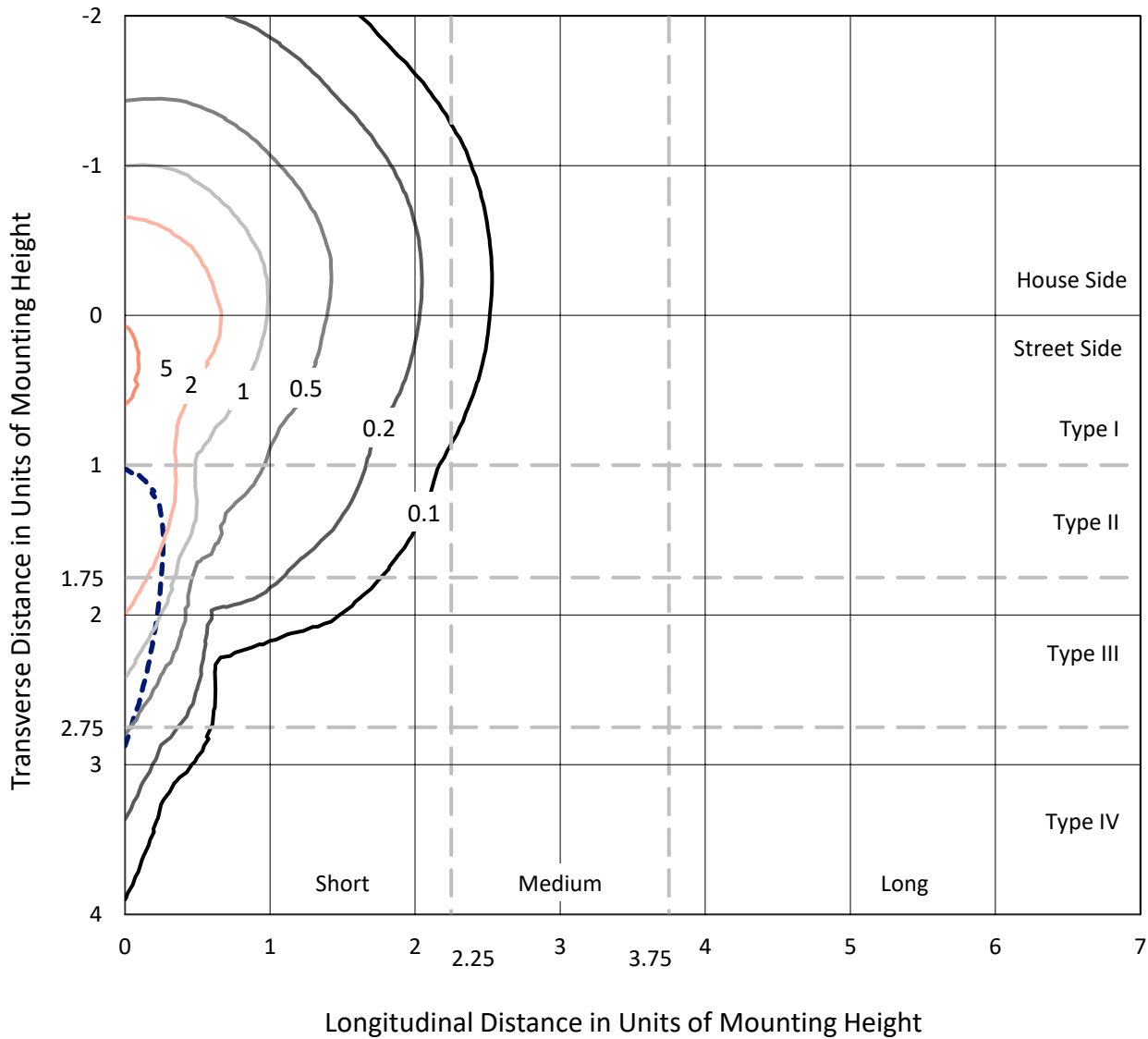
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

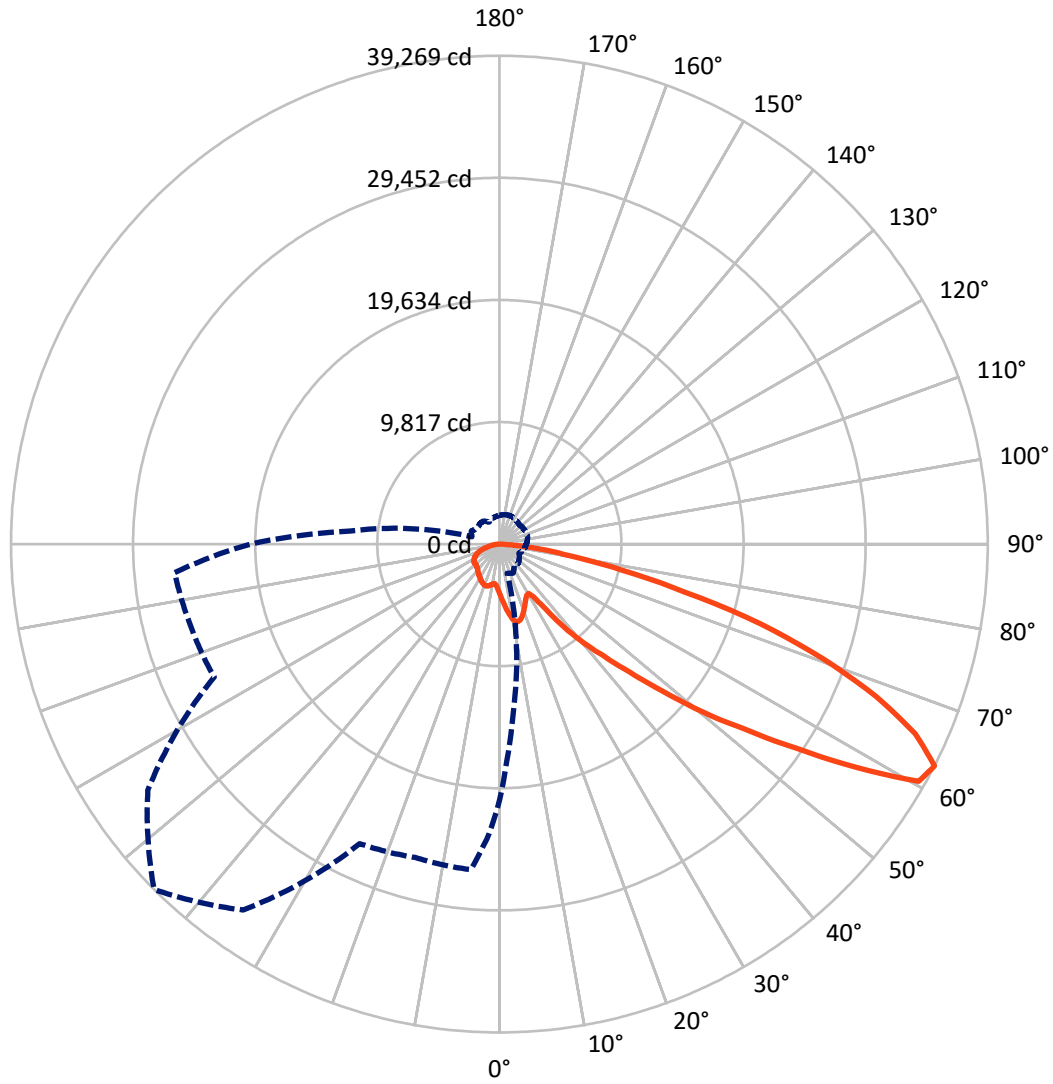
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7692.6 | 0.0 | 7692.6 |
| | % Fixture | 23.9 | 0.0 | 23.9 |
| Street Side | Lumens | 24480.2 | 0.0 | 24480.2 |
| | % Fixture | 76.1 | 0.0 | 76.1 |
| Total | Lumens | 32172.8 | 0.0 | 32172.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 395.2 | 1.2 |
| 10°-20° | 1284.3 | 4.0 |
| 20°-30° | 2021.8 | 6.3 |
| 30°-40° | 2771.3 | 8.6 |
| 40°-50° | 4324.0 | 13.4 |
| 50°-60° | 7455.4 | 23.2 |
| 60°-70° | 8639.9 | 26.9 |
| 70°-80° | 4560.5 | 14.2 |
| 80°-90° | 720.4 | 2.2 |
| 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° | 32172.8 | 100.0 |
| 0°-180° | 32172.8 | 100.0 |

Coefficient of Utilization



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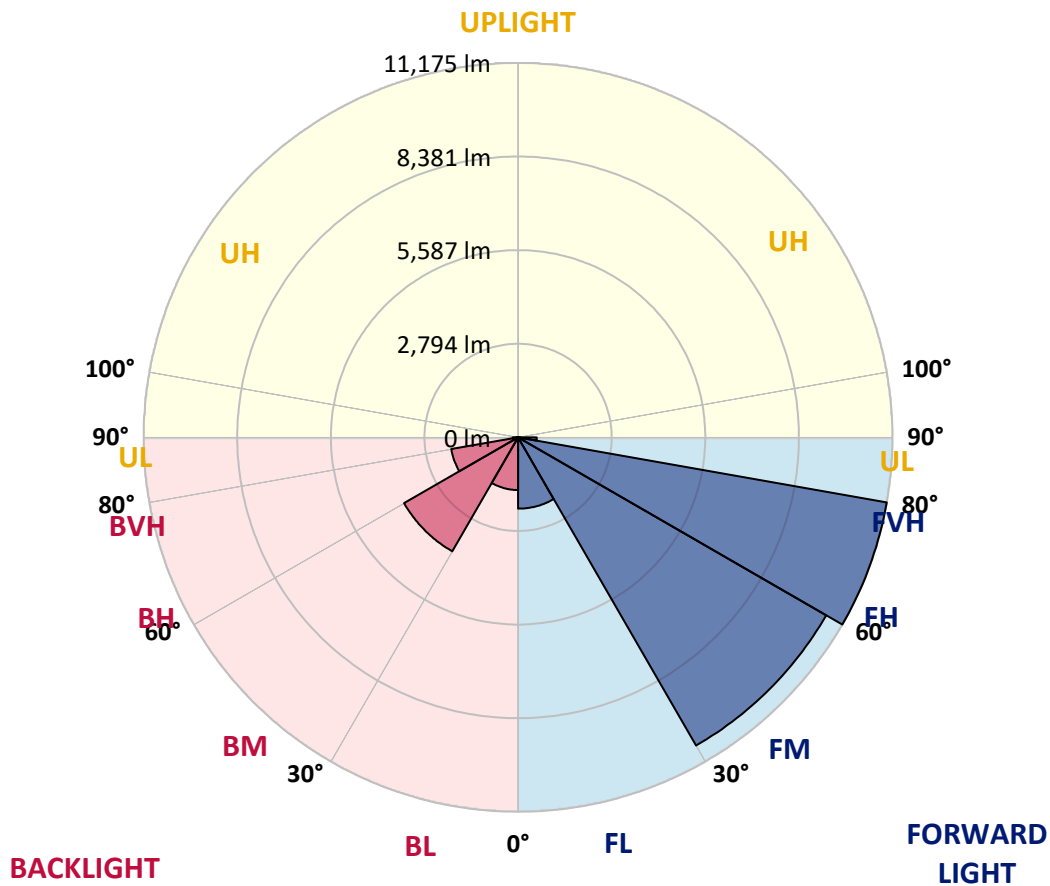
CATALOG NUMBER: GWS-SA4F-760-U-SLL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2127.8 | 6.6 | | | |
| FM (30°-60°) | 10621.4 | 33.0 | | | |
| FH (60°-80°) | 11175.0 | 34.7 | | | G4/12000 |
| FVH (80°-90°) | 556.1 | 1.7 | | | G4/750 |
| BL (0°-30°) | 1573.4 | 4.9 | B3/2500 | | |
| BM (30°-60°) | 3929.3 | 12.2 | B3/5000 | | |
| BH (60°-80°) | 2025.5 | 6.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 164.4 | 0.5 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type III Short





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 CATALOG NUMBER: GWS-SA4F-760-U-SLL-W

CANDELA DISTRIBUTION (FULL):

| | 0° | 2° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4011.3 | 4011.3 | 4011.3 | 4011.3 | 4011.3 | 4011.3 | 4011.3 | 4011.3 | 4011.3 | 4011.3 | 4011.3 |
| 2.5° | 4358.3 | 4341.0 | 4316.4 | 4232.8 | 4181.1 | 4122.0 | 4060.5 | 3989.1 | 3907.9 | 3851.3 | 3794.7 |
| 5° | 4727.4 | 4700.3 | 4641.3 | 4441.9 | 4304.1 | 4154.0 | 4028.5 | 3885.8 | 3745.5 | 3649.5 | 3553.6 |
| 7.5° | 5081.8 | 5047.3 | 4956.3 | 4651.1 | 4427.2 | 4210.6 | 4021.1 | 3814.4 | 3605.2 | 3462.5 | 3349.3 |
| 10° | 5436.1 | 5364.8 | 5249.1 | 4850.5 | 4555.1 | 4304.1 | 4087.6 | 3834.1 | 3556.0 | 3361.6 | 3241.0 |
| 12.5° | 5706.8 | 5640.4 | 5514.9 | 5032.6 | 4683.1 | 4368.1 | 4124.5 | 3890.7 | 3654.5 | 3447.7 | 3324.7 |
| 15° | 5960.3 | 5874.2 | 5731.5 | 5202.4 | 4788.9 | 4365.7 | 4050.7 | 3846.4 | 3811.9 | 3760.3 | 3600.3 |
| 17.5° | 6142.4 | 6063.7 | 5916.0 | 5340.2 | 4848.0 | 4289.4 | 3846.4 | 3725.8 | 3880.9 | 4038.4 | 3885.8 |
| 20° | 6302.4 | 6211.3 | 6061.2 | 5436.1 | 4860.3 | 4119.6 | 3597.8 | 3600.3 | 3843.9 | 4060.5 | 4023.6 |
| 22.5° | 6437.7 | 6336.8 | 6204.0 | 5544.4 | 4855.4 | 3883.3 | 3381.3 | 3528.9 | 3772.6 | 3942.4 | 3947.3 |
| 25° | 6605.1 | 6521.4 | 6410.7 | 5704.4 | 4855.4 | 3642.1 | 3223.8 | 3442.8 | 3652.0 | 3794.7 | 3789.8 |
| 27.5° | 6809.3 | 6752.7 | 6661.7 | 5948.0 | 4899.7 | 3440.4 | 3135.2 | 3332.1 | 3497.0 | 3620.0 | 3617.5 |
| 30° | 7038.2 | 6986.5 | 6917.6 | 6206.4 | 4976.0 | 3290.2 | 3086.0 | 3194.3 | 3314.8 | 3413.3 | 3413.3 |
| 32.5° | 7272.0 | 7252.3 | 7178.5 | 6413.1 | 4916.9 | 3243.5 | 3044.1 | 3056.4 | 3120.4 | 3201.6 | 3194.3 |
| 35° | 7596.8 | 7577.1 | 7483.6 | 6573.1 | 4661.0 | 3177.0 | 2977.7 | 2916.2 | 2923.6 | 2975.2 | 2992.5 |
| 37.5° | 8071.8 | 8042.3 | 7904.4 | 6760.1 | 4274.6 | 3009.7 | 2869.4 | 2768.5 | 2746.4 | 2768.5 | 2800.5 |
| 40° | 8645.2 | 8600.9 | 8413.8 | 7013.6 | 3829.2 | 2783.3 | 2699.6 | 2615.9 | 2579.0 | 2586.4 | 2623.3 |
| 42.5° | 9363.8 | 9270.2 | 9002.0 | 7281.8 | 3388.7 | 2584.0 | 2510.1 | 2458.4 | 2416.6 | 2411.7 | 2483.1 |
| 45° | 10530.2 | 10274.3 | 9848.6 | 7520.5 | 3017.1 | 2478.1 | 2340.3 | 2303.4 | 2269.0 | 2288.6 | 2372.3 |
| 47.5° | 12567.9 | 12095.4 | 11266.0 | 7724.8 | 2790.7 | 2480.6 | 2205.0 | 2165.6 | 2163.1 | 2202.5 | 2296.0 |
| 50° | 15368.4 | 14686.7 | 13407.0 | 7862.6 | 2672.5 | 2510.1 | 2123.8 | 2059.8 | 2106.5 | 2145.9 | 2234.5 |
| 52.5° | 18050.8 | 17009.8 | 15486.5 | 7860.1 | 2620.9 | 2515.0 | 2145.9 | 1961.3 | 2106.5 | 2116.4 | 2200.1 |
| 55° | 20341.9 | 18456.8 | 16047.6 | 7053.0 | 2547.0 | 2495.4 | 2232.0 | 1885.1 | 2079.5 | 2116.4 | 2182.8 |
| 57.5° | 22162.9 | 19377.2 | 16005.8 | 5697.0 | 2771.0 | 2387.1 | 2283.7 | 1867.8 | 2000.7 | 2121.3 | 2197.6 |
| 60° | 21961.2 | 18956.4 | 14974.6 | 3497.0 | 2748.8 | 2195.1 | 2276.3 | 1899.8 | 1867.8 | 2054.9 | 2180.4 |
| 62.5° | 20620.0 | 17447.8 | 13200.3 | 2426.5 | 2581.5 | 2084.4 | 2155.8 | 1956.4 | 1744.8 | 1958.9 | 2096.7 |
| 65° | 18742.3 | 15501.3 | 11000.3 | 1860.4 | 2138.5 | 2089.3 | 1951.5 | 1917.0 | 1636.5 | 1806.3 | 1954.0 |
| 67.5° | 16259.2 | 13087.1 | 8684.5 | 1474.1 | 1491.3 | 1808.8 | 1771.9 | 1702.9 | 1535.6 | 1671.0 | 1803.8 |
| 70° | 12223.3 | 9550.8 | 5975.1 | 1186.2 | 1129.6 | 1511.0 | 1592.2 | 1530.7 | 1437.2 | 1476.5 | 1616.8 |
| 72.5° | 8613.2 | 6235.9 | 3273.0 | 940.1 | 871.2 | 1161.5 | 1383.0 | 1373.2 | 1269.8 | 1299.4 | 1437.2 |
| 75° | 6400.8 | 4412.4 | 2045.0 | 743.2 | 708.7 | 831.8 | 1159.1 | 1188.6 | 1102.5 | 1136.9 | 1242.8 |
| 77.5° | 4259.8 | 2857.1 | 1136.9 | 551.2 | 551.2 | 607.8 | 863.8 | 1001.6 | 937.6 | 964.7 | 1038.5 |
| 80° | 2350.2 | 1454.4 | 568.5 | 361.8 | 371.6 | 418.4 | 630.0 | 721.0 | 723.5 | 790.0 | 809.6 |
| 82.5° | 743.2 | 462.7 | 253.5 | 211.6 | 199.3 | 238.7 | 406.1 | 516.8 | 482.3 | 615.2 | 566.0 |
| 85° | 169.8 | 108.3 | 46.8 | 46.8 | 51.7 | 78.7 | 155.0 | 275.6 | 351.9 | 423.3 | 307.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.5 | 108.3 | 160.0 | 142.7 |
| 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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 CATALOG NUMBER: GWS-SA4F-760-U-SLL-W

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4011.3 | 4011.3 | 4011.3 | 4011.3 | 4011.3 | 4011.3 | 4011.3 | 4011.3 | 4011.3 | 4011.3 | 4011.3 |
| 2.5° | 3760.3 | 3711.1 | 3696.3 | 3654.5 | 3649.5 | 3610.2 | 3595.4 | 3595.4 | 3612.6 | 3612.6 | 3629.8 |
| 5° | 3514.2 | 3452.7 | 3418.2 | 3369.0 | 3356.7 | 3327.1 | 3307.5 | 3309.9 | 3332.1 | 3346.8 | 3376.4 |
| 7.5° | 3297.6 | 3255.8 | 3231.2 | 3209.0 | 3204.1 | 3199.2 | 3177.0 | 3174.6 | 3182.0 | 3204.1 | 3226.3 |
| 10° | 3206.6 | 3177.0 | 3184.4 | 3201.6 | 3228.7 | 3243.5 | 3223.8 | 3213.9 | 3206.6 | 3221.3 | 3241.0 |
| 12.5° | 3295.2 | 3265.6 | 3280.4 | 3309.9 | 3346.8 | 3361.6 | 3354.2 | 3351.8 | 3359.1 | 3415.7 | 3457.6 |
| 15° | 3489.6 | 3433.0 | 3413.3 | 3425.6 | 3455.1 | 3469.9 | 3462.5 | 3472.3 | 3519.1 | 3666.8 | 3772.6 |
| 17.5° | 3730.7 | 3592.9 | 3514.2 | 3492.0 | 3504.3 | 3516.6 | 3516.6 | 3541.2 | 3622.5 | 3839.0 | 3971.9 |
| 20° | 3861.2 | 3681.5 | 3548.6 | 3494.5 | 3499.4 | 3511.7 | 3511.7 | 3546.2 | 3637.2 | 3868.5 | 3954.7 |
| 22.5° | 3826.7 | 3661.8 | 3499.4 | 3440.4 | 3442.8 | 3452.7 | 3452.7 | 3482.2 | 3563.4 | 3767.7 | 3807.0 |
| 25° | 3691.4 | 3546.2 | 3386.2 | 3334.5 | 3339.5 | 3356.7 | 3351.8 | 3369.0 | 3430.5 | 3597.8 | 3620.0 |
| 27.5° | 3528.9 | 3401.0 | 3243.5 | 3204.1 | 3226.3 | 3260.7 | 3231.2 | 3233.6 | 3290.2 | 3430.5 | 3433.0 |
| 30° | 3354.2 | 3248.4 | 3108.1 | 3078.6 | 3120.4 | 3137.7 | 3110.6 | 3110.6 | 3167.2 | 3263.2 | 3260.7 |
| 32.5° | 3164.7 | 3098.3 | 2997.4 | 2965.4 | 3012.2 | 3039.2 | 3004.8 | 3009.7 | 3054.0 | 3118.0 | 3093.4 |
| 35° | 2987.5 | 2953.1 | 2906.3 | 2884.2 | 2913.7 | 2938.3 | 2916.2 | 2926.0 | 2967.9 | 2985.1 | 2950.6 |
| 37.5° | 2817.7 | 2812.8 | 2817.7 | 2817.7 | 2825.1 | 2832.5 | 2817.7 | 2842.4 | 2879.3 | 2857.1 | 2817.7 |
| 40° | 2670.1 | 2689.8 | 2736.5 | 2724.2 | 2716.8 | 2724.2 | 2714.4 | 2756.2 | 2793.1 | 2753.8 | 2707.0 |
| 42.5° | 2547.0 | 2584.0 | 2655.3 | 2655.3 | 2640.6 | 2645.5 | 2640.6 | 2692.2 | 2719.3 | 2665.2 | 2613.5 |
| 45° | 2441.2 | 2495.4 | 2586.4 | 2598.7 | 2574.1 | 2574.1 | 2584.0 | 2647.9 | 2657.8 | 2584.0 | 2529.8 |
| 47.5° | 2367.4 | 2433.8 | 2537.2 | 2559.3 | 2522.4 | 2520.0 | 2547.0 | 2615.9 | 2615.9 | 2529.8 | 2468.3 |
| 50° | 2315.7 | 2389.5 | 2512.6 | 2542.1 | 2505.2 | 2495.4 | 2539.7 | 2606.1 | 2591.3 | 2488.0 | 2426.5 |
| 52.5° | 2281.3 | 2357.6 | 2510.1 | 2552.0 | 2527.4 | 2517.5 | 2561.8 | 2608.6 | 2571.7 | 2460.9 | 2396.9 |
| 55° | 2259.1 | 2342.8 | 2517.5 | 2552.0 | 2524.9 | 2507.7 | 2552.0 | 2593.8 | 2574.1 | 2446.1 | 2384.6 |
| 57.5° | 2271.4 | 2355.1 | 2507.7 | 2524.9 | 2492.9 | 2463.4 | 2515.0 | 2574.1 | 2566.7 | 2451.1 | 2389.5 |
| 60° | 2251.7 | 2328.0 | 2453.5 | 2458.4 | 2404.3 | 2357.6 | 2433.8 | 2522.4 | 2522.4 | 2433.8 | 2379.7 |
| 62.5° | 2160.7 | 2237.0 | 2347.7 | 2352.6 | 2291.1 | 2239.4 | 2328.0 | 2433.8 | 2431.4 | 2360.0 | 2303.4 |
| 65° | 2010.6 | 2081.9 | 2207.4 | 2219.7 | 2158.2 | 2104.1 | 2195.1 | 2293.6 | 2301.0 | 2237.0 | 2187.7 |
| 67.5° | 1845.7 | 1909.7 | 2003.2 | 2052.4 | 2000.7 | 1944.1 | 2027.8 | 2121.3 | 2118.8 | 2042.6 | 1990.9 |
| 70° | 1648.8 | 1707.9 | 1794.0 | 1835.8 | 1803.8 | 1749.7 | 1826.0 | 1875.2 | 1853.1 | 1816.2 | 1781.7 |
| 72.5° | 1454.4 | 1511.0 | 1592.2 | 1592.2 | 1557.8 | 1506.1 | 1528.2 | 1616.8 | 1643.9 | 1616.8 | 1594.7 |
| 75° | 1250.1 | 1299.4 | 1356.0 | 1368.3 | 1292.0 | 1198.5 | 1301.8 | 1378.1 | 1410.1 | 1397.8 | 1370.7 |
| 77.5° | 1041.0 | 1077.9 | 1161.5 | 1139.4 | 996.7 | 947.5 | 1031.1 | 1144.3 | 1166.5 | 1159.1 | 1122.2 |
| 80° | 802.3 | 824.4 | 913.0 | 868.7 | 758.0 | 726.0 | 762.9 | 851.5 | 856.4 | 831.8 | 785.0 |
| 82.5° | 538.9 | 568.5 | 627.5 | 541.4 | 538.9 | 509.4 | 479.9 | 489.7 | 534.0 | 529.1 | 497.1 |
| 85° | 275.6 | 290.4 | 347.0 | 324.8 | 278.1 | 241.2 | 228.9 | 243.6 | 219.0 | 199.3 | 172.3 |
| 87.5° | 115.7 | 125.5 | 172.3 | 96.0 | 29.5 | 0.0 | 0.0 | 14.8 | 22.1 | 32.0 | 34.5 |
| 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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 CATALOG NUMBER: GWS-SA4F-760-U-SLL-W

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 4011.3 | 4011.3 | 4011.3 | 4011.3 | 4011.3 | 4011.3 | 4011.3 | 4011.3 | 4011.3 | 4011.3 | 4011.3 |
| 2.5° | 3669.2 | 3696.3 | 3762.7 | 3846.4 | 3927.6 | 4011.3 | 4102.3 | 4158.9 | 4227.8 | 4316.4 | 4318.9 |
| 5° | 3413.3 | 3474.8 | 3570.8 | 3698.7 | 3831.6 | 3984.2 | 4161.4 | 4309.1 | 4486.2 | 4626.5 | 4683.1 |
| 7.5° | 3255.8 | 3344.4 | 3465.0 | 3627.4 | 3802.1 | 3991.6 | 4222.9 | 4471.5 | 4761.9 | 4948.9 | 5059.6 |
| 10° | 3270.5 | 3405.9 | 3526.5 | 3664.3 | 3821.8 | 4026.0 | 4323.8 | 4653.6 | 5010.4 | 5256.5 | 5394.3 |
| 12.5° | 3533.9 | 3676.6 | 3654.5 | 3647.1 | 3752.9 | 4001.4 | 4405.0 | 4838.1 | 5273.7 | 5519.8 | 5684.7 |
| 15° | 3866.1 | 3920.2 | 3711.1 | 3553.6 | 3617.5 | 3912.8 | 4449.3 | 5003.0 | 5492.7 | 5793.0 | 5955.4 |
| 17.5° | 4035.9 | 3927.6 | 3674.1 | 3437.9 | 3420.7 | 3777.5 | 4471.5 | 5170.4 | 5738.8 | 6039.1 | 6211.3 |
| 20° | 3957.1 | 3799.6 | 3585.5 | 3361.6 | 3238.6 | 3592.9 | 4459.2 | 5303.3 | 5962.8 | 6297.5 | 6437.7 |
| 22.5° | 3787.3 | 3649.5 | 3482.2 | 3268.1 | 3090.9 | 3391.1 | 4427.2 | 5436.1 | 6162.1 | 6499.3 | 6622.3 |
| 25° | 3602.8 | 3499.4 | 3361.6 | 3174.6 | 3007.2 | 3213.9 | 4405.0 | 5613.3 | 6391.0 | 6713.4 | 6792.1 |
| 27.5° | 3418.2 | 3341.9 | 3228.7 | 3083.5 | 2987.5 | 3090.9 | 4412.4 | 5844.7 | 6686.3 | 6991.4 | 6959.5 |
| 30° | 3236.1 | 3169.7 | 3090.9 | 3026.9 | 2985.1 | 3061.4 | 4392.7 | 6090.8 | 7011.1 | 7294.1 | 7104.6 |
| 32.5° | 3063.8 | 3002.3 | 2953.1 | 2962.9 | 2987.5 | 3073.7 | 4291.8 | 6314.7 | 7308.9 | 7550.1 | 7262.1 |
| 35° | 2916.2 | 2852.2 | 2852.2 | 2886.6 | 2977.7 | 3031.8 | 4031.0 | 6489.4 | 7638.7 | 7879.8 | 7486.1 |
| 37.5° | 2778.4 | 2721.8 | 2758.7 | 2815.3 | 2901.4 | 2918.6 | 3696.3 | 6659.2 | 8118.5 | 8344.9 | 7833.1 |
| 40° | 2657.8 | 2601.2 | 2667.6 | 2739.0 | 2783.3 | 2775.9 | 3356.7 | 6895.5 | 8684.5 | 8918.3 | 8293.3 |
| 42.5° | 2561.8 | 2510.1 | 2569.2 | 2660.2 | 2667.6 | 2675.0 | 3108.1 | 7121.9 | 9341.6 | 9639.4 | 9085.7 |
| 45° | 2483.1 | 2446.1 | 2475.7 | 2566.7 | 2566.7 | 2679.9 | 2953.1 | 7311.4 | 10330.9 | 10857.5 | 10540.1 |
| 47.5° | 2421.5 | 2399.4 | 2414.2 | 2443.7 | 2492.9 | 2768.5 | 2854.7 | 7456.6 | 12132.3 | 13165.9 | 12845.9 |
| 50° | 2387.1 | 2364.9 | 2384.6 | 2323.1 | 2470.8 | 2812.8 | 2822.7 | 7567.3 | 14507.1 | 16126.3 | 15730.1 |
| 52.5° | 2357.6 | 2350.2 | 2362.5 | 2219.7 | 2520.0 | 2783.3 | 2798.1 | 7419.6 | 16099.3 | 19040.1 | 19431.3 |
| 55° | 2347.7 | 2352.6 | 2293.6 | 2143.5 | 2579.0 | 2684.9 | 2724.2 | 6363.9 | 16532.4 | 21552.6 | 23981.6 |
| 57.5° | 2352.6 | 2337.9 | 2187.7 | 2150.8 | 2581.5 | 2488.0 | 2830.0 | 4540.4 | 15902.4 | 22645.3 | 28433.3 |
| 60° | 2335.4 | 2261.6 | 2059.8 | 2217.3 | 2468.3 | 2256.7 | 2753.8 | 2960.5 | 14241.3 | 21806.1 | 28691.7 |
| 62.5° | 2259.1 | 2150.8 | 1949.0 | 2254.2 | 2266.5 | 2118.8 | 2500.3 | 2281.3 | 12026.5 | 20009.7 | 26201.3 |
| 65° | 2148.4 | 2003.2 | 1855.5 | 2177.9 | 2062.2 | 2054.9 | 1880.1 | 1828.5 | 9671.4 | 17871.1 | 23838.8 |
| 67.5° | 1966.3 | 1821.1 | 1786.6 | 2003.2 | 1855.5 | 1821.1 | 1511.0 | 1515.9 | 7717.4 | 15592.3 | 21464.0 |
| 70° | 1759.6 | 1614.4 | 1641.4 | 1811.2 | 1651.3 | 1513.5 | 1223.1 | 1262.4 | 5854.5 | 12991.1 | 18262.4 |
| 72.5° | 1624.2 | 1429.8 | 1432.2 | 1594.7 | 1451.9 | 1225.5 | 1006.5 | 1041.0 | 3716.0 | 9792.0 | 14519.4 |
| 75° | 1370.7 | 1260.0 | 1205.8 | 1292.0 | 1232.9 | 954.8 | 846.6 | 839.2 | 2202.5 | 7018.5 | 10872.3 |
| 77.5° | 1144.3 | 1058.2 | 1031.1 | 1065.6 | 920.4 | 706.3 | 681.7 | 669.4 | 1247.7 | 4496.1 | 7124.3 |
| 80° | 829.3 | 807.2 | 804.7 | 821.9 | 708.7 | 519.3 | 519.3 | 521.7 | 671.8 | 2441.2 | 4016.2 |
| 82.5° | 526.6 | 575.9 | 509.4 | 566.0 | 482.3 | 369.1 | 344.5 | 391.3 | 386.4 | 1041.0 | 1693.1 |
| 85° | 219.0 | 300.2 | 280.5 | 297.8 | 228.9 | 201.8 | 216.6 | 233.8 | 223.9 | 401.1 | 659.5 |
| 87.5° | 41.8 | 49.2 | 54.1 | 51.7 | 51.7 | 64.0 | 71.4 | 86.1 | 86.1 | 115.7 | 199.3 |
| 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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| 22.5° | 6371.3 | 5775.8 | 5431.2 | 5254.0 | 5337.7 | 5699.5 | 6287.6 | 6558.3 | 6504.2 | 6437.7 |
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| 30° | 5906.2 | 5069.5 | 4710.2 | 4604.4 | 4670.8 | 4976.0 | 5635.5 | 6831.5 | 7003.7 | 7038.2 |
| 32.5° | 5829.9 | 5145.8 | 4988.3 | 5035.0 | 4948.9 | 5054.7 | 5556.7 | 6957.0 | 7215.4 | 7272.0 |
| 35° | 5930.8 | 5822.5 | 6221.2 | 6405.7 | 6100.6 | 5699.5 | 5657.6 | 7146.5 | 7513.2 | 7596.8 |
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| 42.5° | 8490.1 | 9723.1 | 11204.5 | 12289.8 | 11251.3 | 9572.9 | 8130.8 | 8755.9 | 9297.3 | 9363.8 |
| 45° | 9474.5 | 10887.1 | 13131.4 | 14639.9 | 13229.8 | 10628.7 | 9176.7 | 10119.3 | 10527.8 | 10530.2 |
| 47.5° | 10628.7 | 12198.7 | 15548.0 | 17696.4 | 15855.6 | 11797.6 | 10158.6 | 12277.5 | 12845.9 | 12567.9 |
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| 52.5° | 13857.4 | 14940.2 | 20777.5 | 24719.8 | 22546.8 | 14871.3 | 13215.1 | 18383.0 | 18638.9 | 18050.8 |
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| 60° | 27338.2 | 24284.3 | 32995.9 | 38734.7 | 34627.5 | 24584.5 | 27102.0 | 28389.0 | 24894.6 | 21961.2 |
| 62.5° | 25667.3 | 25300.6 | 34504.4 | 39268.7 | 35917.0 | 26570.4 | 26090.6 | 26280.0 | 23270.4 | 20620.0 |
| 65° | 22519.8 | 23339.3 | 33158.3 | 36736.5 | 34487.2 | 24791.2 | 23600.1 | 24331.0 | 21412.4 | 18742.3 |
| 67.5° | 20661.8 | 21264.7 | 30763.8 | 32683.3 | 31888.5 | 22866.8 | 21663.4 | 21134.3 | 18528.2 | 16259.2 |
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| 77.5° | 10370.3 | 9501.6 | 13387.3 | 10124.2 | 11450.6 | 7973.3 | 8901.1 | 6167.0 | 5335.3 | 4259.8 |
| 80° | 6961.9 | 6420.5 | 7397.5 | 5714.2 | 7491.0 | 5495.2 | 5805.3 | 3494.5 | 3029.4 | 2350.2 |
| 82.5° | 3671.7 | 3135.2 | 4572.4 | 3388.7 | 4518.2 | 3019.5 | 2177.9 | 1080.3 | 920.4 | 743.2 |
| 85° | 1422.4 | 1646.3 | 2241.9 | 1205.8 | 1752.2 | 1077.9 | 630.0 | 268.2 | 223.9 | 169.8 |
| 87.5° | 275.6 | 425.7 | 233.8 | 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 |

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