

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: P637380

Luminaire Tested: GWS-SA4C-760-U-SLL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637380
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-39)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-760-U-SLL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15244 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

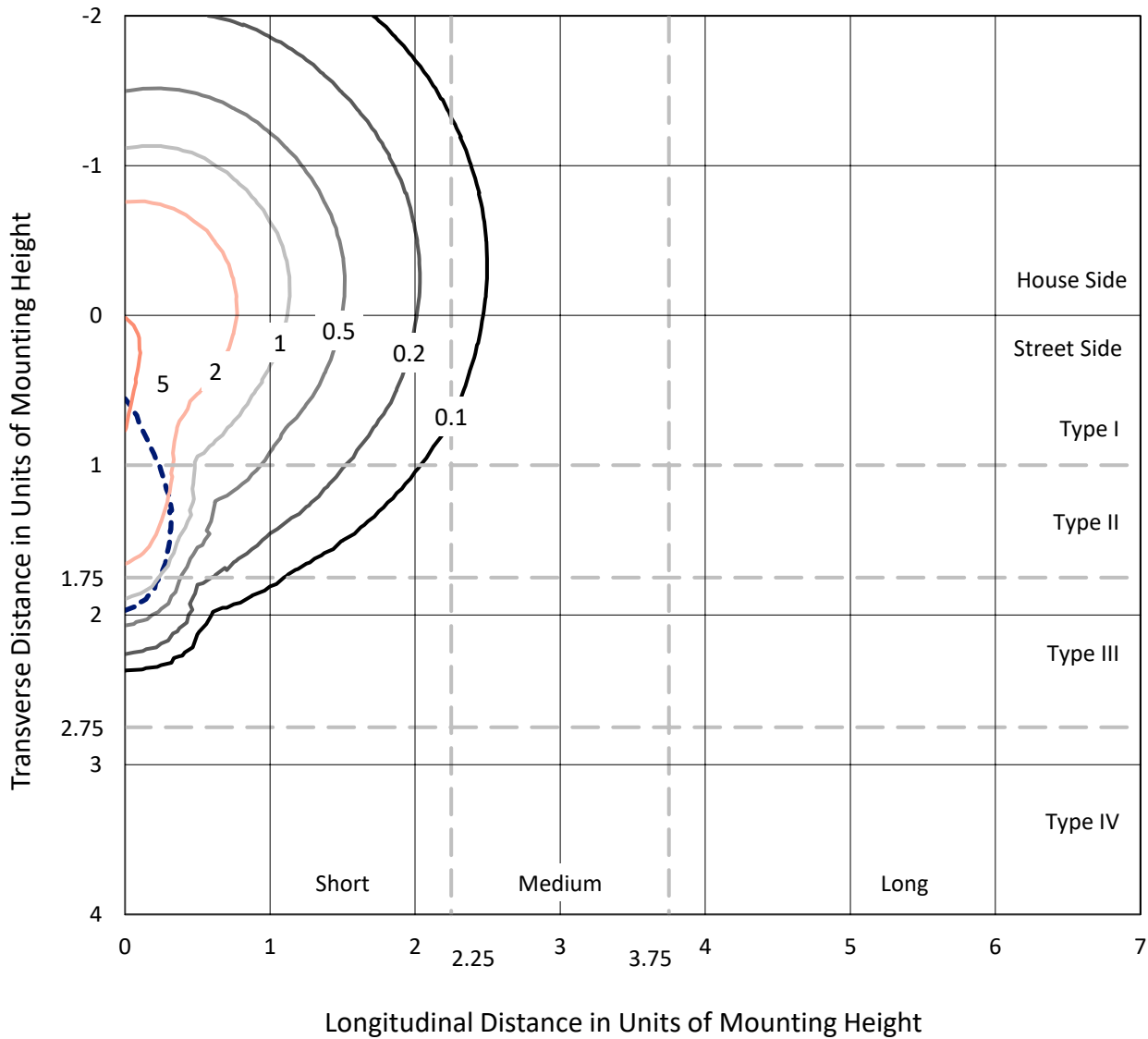
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

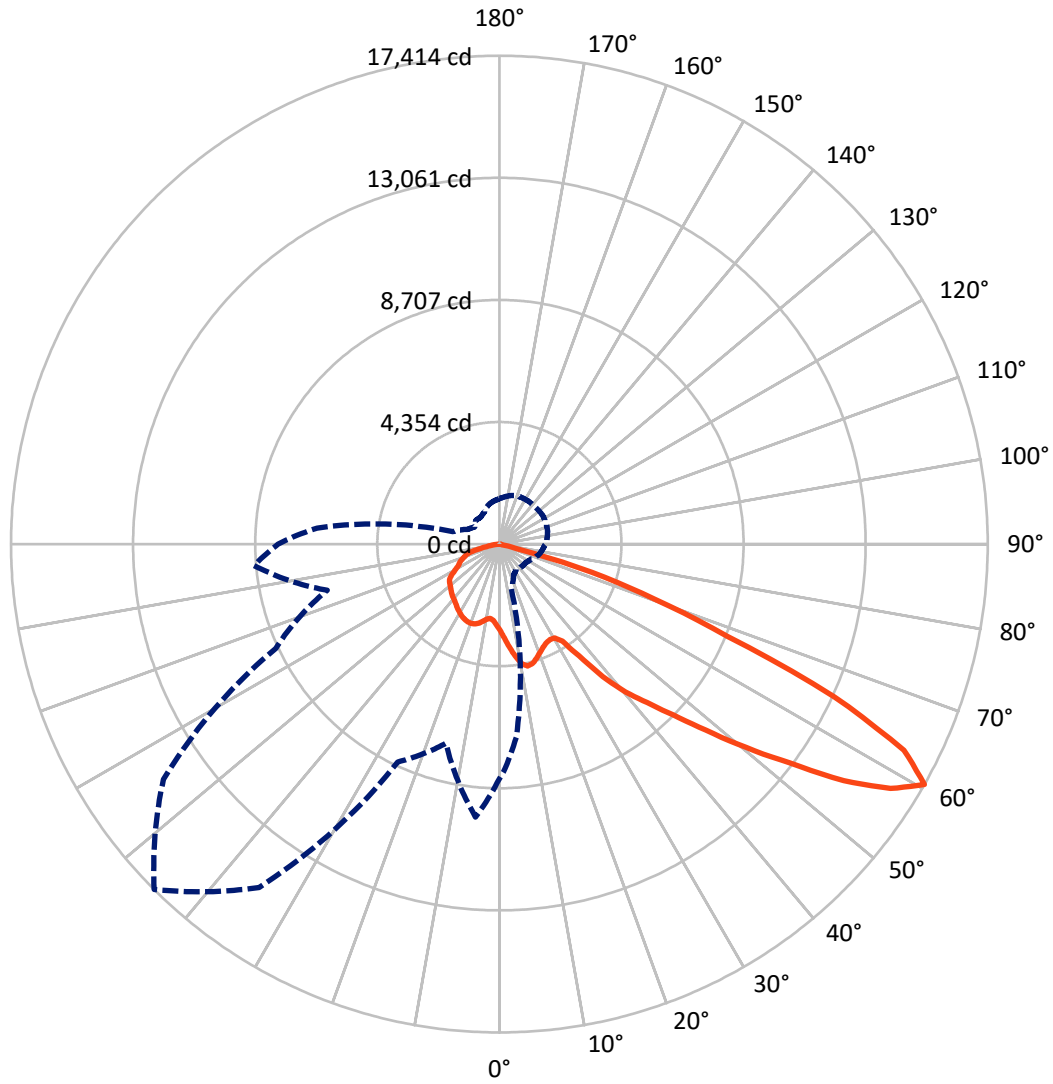
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5214.8	0.0	5214.8
	% Fixture	34.2	0.0	34.2
Street Side	Lumens	10029.2	0.0	10029.2
	% Fixture	65.8	0.0	65.8
Total	Lumens	15244.0	0.0	15244.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.4	2.0
10°-20°	963.5	6.3
20°-30°	1569.1	10.3
30°-40°	2204.3	14.5
40°-50°	3016.3	19.8
50°-60°	3869.8	25.4
60°-70°	2605.7	17.1
70°-80°	651.4	4.3
80°-90°	63.5	0.4
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°	15244.0	100.0
0°-180°	15244.0	100.0

Coefficient of Utilization



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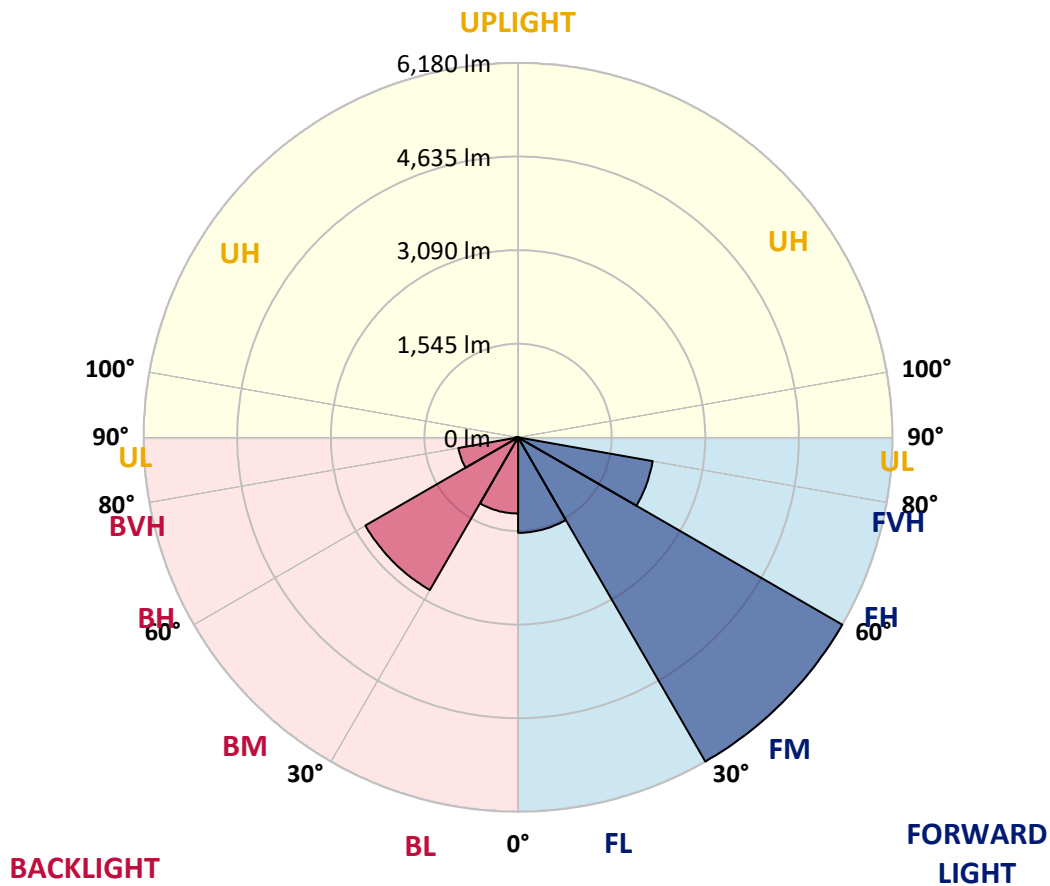
CATALOG NUMBER: GWS-SA4C-760-U-SLL-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1575.9	10.3			
FM (30°-60°)	6180.0	40.5			
FH (60°-80°)	2256.7	14.8			G2/5000
FVH (80°-90°)	16.5	0.1			G1/100
BL (0°-30°)	1257.1	8.2	B3/2500		
BM (30°-60°)	2910.3	19.1	B3/5000		
BH (60°-80°)	1000.4	6.6	B3/2500		G3/2500
BVH (80°-90°)	47.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3074.6	3074.6	3074.6	3074.6	3074.6	3074.6	3074.6	3074.6	3074.6	3074.6	3074.6
2.5°	3252.8	3245.8	3238.8	3184.1	3170.0	3130.7	3102.6	3067.5	3017.0	2988.9	2965.0
5°	3456.4	3445.2	3407.3	3295.0	3222.0	3141.9	3076.0	3003.0	2925.7	2875.2	2835.9
7.5°	3648.8	3645.9	3581.4	3396.0	3278.1	3163.0	3073.1	2966.5	2855.5	2779.7	2729.2
10°	3827.0	3806.0	3728.8	3487.3	3332.9	3200.9	3104.0	2986.1	2856.9	2754.5	2687.1
12.5°	3984.3	3957.6	3850.9	3571.5	3380.6	3217.8	3112.5	3015.6	2930.0	2844.3	2767.1
15°	4113.4	4081.2	3973.1	3650.2	3422.7	3207.9	3060.5	2984.7	3014.2	3052.1	2966.5
17.5°	4234.2	4200.5	4068.5	3707.7	3435.4	3147.6	2932.8	2900.5	3049.3	3222.0	3182.7
20°	4335.3	4297.4	4144.3	3735.8	3412.9	3032.4	2767.1	2823.3	3019.8	3226.2	3289.4
22.5°	4444.8	4413.9	4230.0	3776.5	3384.8	2873.8	2628.1	2765.7	2969.3	3150.4	3245.8
25°	4620.3	4582.3	4363.3	3848.1	3370.8	2725.0	2528.4	2709.5	2899.1	3063.3	3137.7
27.5°	4874.4	4804.2	4545.8	3973.1	3386.2	2584.6	2465.3	2640.7	2817.6	2958.0	3018.4
30°	5150.9	5066.7	4748.0	4102.2	3408.7	2499.0	2431.6	2562.1	2692.7	2833.1	2899.1
32.5°	5478.0	5403.6	4964.2	4199.1	3360.9	2459.6	2406.3	2476.5	2580.4	2692.7	2747.4
35°	5868.3	5735.0	5200.1	4277.7	3206.5	2402.1	2383.8	2382.4	2437.2	2546.7	2608.5
37.5°	6288.1	6144.9	5490.7	4361.9	2966.5	2310.8	2330.5	2271.5	2322.1	2409.1	2479.3
40°	6632.0	6481.8	5784.1	4477.1	2666.0	2167.6	2212.6	2149.4	2180.3	2270.1	2348.7
42.5°	6969.0	6808.9	6057.9	4607.6	2375.4	2027.2	2049.7	2025.8	2035.7	2129.7	2239.2
45°	7411.2	7231.5	6394.8	4700.3	2114.3	1916.3	1895.3	1854.6	1906.5	2028.6	2145.2
47.5°	8149.7	7934.9	6946.5	4760.6	1924.8	1853.2	1756.3	1732.4	1797.0	1933.2	2053.9
50°	9013.1	8827.8	7828.2	4757.8	1783.0	1799.8	1621.5	1600.5	1707.1	1844.7	1972.5
52.5°	9720.6	9532.5	8582.1	4617.4	1666.4	1686.1	1542.9	1483.9	1629.9	1757.7	1885.4
55°	10292.0	10080.0	8928.8	4030.6	1519.0	1505.0	1457.3	1349.2	1533.1	1670.6	1790.0
57.5°	9984.6	9731.9	8509.1	3064.7	1367.4	1279.0	1309.8	1229.8	1401.1	1573.8	1688.9
60°	8371.5	8144.1	6912.8	1631.3	1203.1	1068.4	1133.0	1145.6	1256.5	1457.3	1575.2
62.5°	5750.4	5584.7	4684.8	989.8	949.0	857.8	958.9	1050.1	1133.0	1302.8	1405.3
65°	2813.4	2764.3	2343.1	634.6	664.0	693.5	794.6	905.5	1027.7	1176.5	1284.6
67.5°	775.0	780.6	710.4	495.6	523.7	605.1	685.1	773.6	895.7	1033.3	1142.8
70°	341.1	346.8	358.0	381.9	435.2	509.6	592.4	683.7	796.0	911.1	1016.4
72.5°	237.3	242.9	259.7	290.6	338.3	408.5	487.2	574.2	690.7	787.6	874.6
75°	146.0	150.2	165.7	192.3	224.6	278.0	355.2	435.2	537.7	626.1	703.4
77.5°	77.2	74.4	84.2	102.5	130.6	158.6	210.6	261.1	334.1	405.7	470.3
80°	42.1	40.7	46.3	56.2	64.6	87.0	122.1	155.8	198.0	238.7	273.8
82.5°	18.3	16.8	18.3	23.9	29.5	42.1	61.8	85.6	109.5	137.6	160.0
85°	0.0	0.0	0.0	1.4	7.0	11.2	21.1	30.9	44.9	61.8	75.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	12.6
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°	3074.6	3074.6	3074.6	3074.6	3074.6	3074.6	3074.6	3074.6	3074.6	3074.6	3074.6
2.5°	2951.0	2915.9	2913.1	2885.0	2887.8	2889.2	2861.2	2849.9	2859.8	2871.0	2865.4
5°	2821.8	2785.3	2769.9	2743.2	2740.4	2727.8	2716.6	2702.5	2712.3	2722.2	2727.8
7.5°	2709.5	2685.7	2675.8	2668.8	2671.6	2666.0	2643.6	2630.9	2629.5	2633.7	2639.3
10°	2673.0	2653.4	2666.0	2685.7	2699.7	2709.5	2685.7	2664.6	2645.0	2636.5	2636.5
12.5°	2751.7	2726.4	2751.7	2772.7	2800.8	2807.8	2781.1	2758.7	2751.7	2760.1	2776.9
15°	2925.7	2866.8	2865.4	2878.0	2900.5	2911.7	2886.4	2875.2	2875.2	2928.5	2970.7
17.5°	3099.8	3003.0	2962.2	2955.2	2969.3	2973.5	2952.4	2942.6	2967.9	3071.7	3150.4
20°	3222.0	3104.0	3015.6	2998.7	3003.0	3004.4	2987.5	2980.5	3017.0	3143.3	3209.3
22.5°	3209.3	3122.3	3014.2	2993.1	3000.1	2997.3	2981.9	2979.1	3008.6	3118.1	3149.0
25°	3122.3	3054.9	2963.6	2949.6	2960.8	2959.4	2944.0	2937.0	2949.6	3022.6	3025.4
27.5°	3022.6	2963.6	2885.0	2880.8	2899.1	2908.9	2882.2	2861.2	2856.9	2906.1	2894.9
30°	2903.3	2859.8	2796.6	2799.4	2833.1	2838.7	2806.4	2775.5	2767.1	2793.8	2778.3
32.5°	2761.5	2747.4	2713.7	2720.8	2753.1	2764.3	2730.6	2698.3	2688.5	2696.9	2664.6
35°	2640.7	2635.1	2637.9	2650.6	2678.7	2687.1	2659.0	2633.7	2619.7	2590.2	2548.1
37.5°	2515.8	2531.2	2572.0	2595.8	2611.3	2608.5	2593.0	2574.8	2552.3	2497.5	2445.6
40°	2399.3	2438.6	2511.6	2538.3	2543.9	2545.3	2534.0	2518.6	2490.5	2417.5	2358.6
42.5°	2309.4	2352.9	2449.8	2490.5	2493.3	2496.1	2484.9	2472.3	2433.0	2336.1	2278.5
45°	2215.4	2272.9	2386.6	2435.8	2433.0	2431.6	2421.7	2416.1	2369.8	2257.5	2194.3
47.5°	2135.3	2202.7	2324.9	2367.0	2365.6	2364.2	2357.2	2357.2	2310.8	2188.7	2117.1
50°	2056.7	2133.9	2261.7	2296.8	2299.6	2296.8	2294.0	2298.2	2243.4	2112.9	2042.7
52.5°	1971.1	2058.1	2191.5	2223.8	2240.6	2247.7	2247.7	2237.8	2173.2	2037.1	1959.9
55°	1877.0	1959.9	2114.3	2157.8	2171.8	2184.5	2184.5	2164.8	2104.5	1966.9	1884.0
57.5°	1760.5	1833.5	1955.6	1999.2	2032.9	2041.3	2041.3	2009.0	1959.9	1827.9	1760.5
60°	1634.1	1697.3	1780.2	1826.5	1851.8	1834.9	1847.5	1839.1	1799.8	1677.7	1621.5
62.5°	1465.7	1530.3	1621.5	1669.2	1680.5	1663.6	1680.5	1679.1	1625.7	1516.2	1448.8
65°	1344.9	1408.1	1498.0	1559.7	1578.0	1573.8	1585.0	1568.2	1502.2	1398.3	1333.7
67.5°	1201.7	1269.1	1373.0	1441.8	1479.7	1483.9	1499.4	1464.3	1396.9	1283.2	1201.7
70°	1065.6	1123.1	1203.1	1267.7	1321.1	1347.7	1350.6	1300.0	1215.8	1121.7	1062.8
72.5°	922.4	981.3	1078.2	1148.4	1215.8	1246.7	1246.7	1184.9	1093.6	989.8	926.6
75°	748.3	803.0	891.5	967.3	1044.5	1083.8	1082.4	1029.1	928.0	829.7	763.7
77.5°	506.8	547.5	603.7	661.2	672.5	703.4	718.8	651.4	595.3	541.9	482.9
80°	294.8	320.1	351.0	383.3	390.3	400.1	374.8	349.6	320.1	285.0	258.3
82.5°	172.7	189.5	205.0	230.2	234.5	237.3	214.8	203.6	179.7	158.6	141.8
85°	84.2	89.8	103.9	116.5	110.9	108.1	98.3	87.0	77.2	68.8	60.4
87.5°	16.8	16.8	25.3	23.9	19.7	16.8	9.8	12.6	2.8	2.8	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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3074.6	3074.6	3074.6	3074.6	3074.6	3074.6	3074.6	3074.6	3074.6	3074.6	3074.6
2.5°	2883.6	2907.5	2937.0	2976.3	3021.2	3068.9	3115.3	3150.4	3185.5	3237.4	3229.0
5°	2736.2	2776.9	2823.3	2883.6	2956.6	3039.5	3132.1	3224.8	3324.4	3408.7	3445.2
7.5°	2650.6	2695.5	2750.3	2828.9	2922.9	3024.0	3154.6	3304.8	3466.2	3577.2	3645.9
10°	2650.6	2708.1	2779.7	2855.5	2938.4	3042.3	3203.7	3391.8	3599.6	3745.6	3825.6
12.5°	2803.6	2861.2	2876.6	2873.8	2920.1	3035.2	3243.0	3483.1	3731.6	3886.0	3984.3
15°	3042.3	3061.9	2945.4	2838.7	2845.7	2984.7	3261.3	3556.1	3845.3	4030.6	4137.3
17.5°	3202.3	3150.4	2942.6	2755.9	2716.6	2899.1	3261.3	3626.3	3966.0	4175.2	4274.9
20°	3214.9	3085.8	2871.0	2675.8	2574.8	2785.3	3238.8	3679.6	4082.6	4314.2	4420.9
22.5°	3104.0	2976.3	2795.2	2607.1	2458.2	2647.8	3202.3	3720.3	4182.2	4444.8	4576.7
25°	2977.7	2871.0	2718.0	2536.9	2378.2	2508.8	3168.6	3789.1	4321.2	4621.7	4755.0
27.5°	2854.1	2764.3	2625.3	2477.9	2333.3	2388.0	3147.6	3890.2	4486.9	4873.0	4988.1
30°	2733.4	2652.0	2525.6	2421.7	2309.4	2309.4	3129.3	4006.7	4705.9	5155.1	5270.3
32.5°	2611.3	2534.0	2431.6	2367.0	2295.4	2278.5	3078.8	4116.3	4931.9	5464.0	5581.9
35°	2497.5	2420.3	2341.7	2315.0	2288.4	2254.7	2953.8	4201.9	5152.3	5824.8	5925.9
37.5°	2390.9	2316.4	2257.5	2250.5	2253.3	2190.1	2757.3	4273.5	5427.5	6194.0	6247.4
40°	2298.2	2215.4	2169.0	2167.6	2181.7	2086.2	2508.8	4376.0	5742.0	6507.1	6484.6
42.5°	2215.4	2128.3	2072.2	2084.8	2076.4	1982.3	2265.9	4470.0	6015.7	6800.5	6755.6
45°	2133.9	2049.7	1971.1	1989.3	1979.5	1917.7	2059.5	4538.8	6319.0	7152.9	7158.5
47.5°	2055.3	1972.5	1893.9	1871.4	1870.0	1898.1	1900.9	4561.3	6813.2	7720.1	7592.3
50°	1982.3	1899.5	1818.1	1742.2	1771.7	1858.8	1783.0	4544.4	7553.0	8346.2	7989.6
52.5°	1906.5	1827.9	1738.0	1601.9	1679.1	1764.7	1677.7	4484.1	8005.1	8899.4	8686.0
55°	1819.5	1745.1	1622.9	1457.3	1551.3	1569.6	1569.6	3900.0	8197.4	9446.9	9578.8
57.5°	1702.9	1604.7	1410.9	1277.6	1361.8	1291.6	1454.4	2729.2	7880.1	9274.2	9786.6
60°	1571.0	1465.7	1260.7	1165.2	1190.5	1067.0	1239.6	1711.4	6531.0	7891.4	8778.6
62.5°	1396.9	1300.0	1130.1	1055.7	1003.8	870.4	998.2	1082.4	4477.1	5859.9	6465.0
65°	1280.4	1173.7	1022.0	923.8	817.1	700.5	662.6	710.4	2407.7	3279.5	3688.1
67.5°	1142.8	1037.5	894.3	770.7	685.1	600.9	534.9	518.0	825.5	1092.2	1182.1
70°	1012.2	911.1	791.8	676.7	591.0	508.2	443.6	397.3	381.9	379.1	373.4
72.5°	878.8	784.8	685.1	578.4	484.3	408.5	351.0	297.6	275.2	268.1	261.1
75°	720.2	645.8	546.1	431.0	355.2	285.0	240.1	205.0	185.3	178.3	169.9
77.5°	463.3	429.6	342.6	278.0	214.8	169.9	146.0	123.5	110.9	108.1	101.1
80°	247.1	230.2	189.5	160.0	127.8	103.9	91.3	78.6	71.6	68.8	66.0
82.5°	137.6	124.9	105.3	92.7	74.4	63.2	56.2	50.5	46.3	44.9	43.5
85°	61.8	53.3	42.1	39.3	35.1	32.3	30.9	28.1	26.7	25.3	23.9
87.5°	2.8	5.6	7.0	5.6	5.6	8.4	9.8	9.8	8.4	8.4	7.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637380

CATALOG NUMBER: GWS-SA4C-760-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3074.6	3074.6	3074.6	3074.6	3074.6	3074.6	3074.6	3074.6	3074.6	3074.6
2.5°	3280.9	3323.0	3327.3	3341.3	3323.0	3318.8	3289.4	3272.5	3257.1	3252.8
5°	3536.4	3620.7	3654.4	3678.2	3655.8	3644.5	3580.0	3512.6	3474.7	3456.4
7.5°	3799.0	3925.3	3991.3	4020.8	4023.6	3973.1	3862.1	3735.8	3672.6	3648.8
10°	4033.4	4189.3	4276.3	4332.5	4312.8	4251.0	4099.4	3928.1	3848.1	3827.0
12.5°	4207.5	4356.3	4423.7	4460.2	4458.8	4425.1	4281.9	4096.6	4005.3	3984.3
15°	4319.8	4408.3	4412.5	4420.9	4444.8	4489.7	4415.3	4244.0	4142.9	4113.4
17.5°	4408.3	4373.2	4307.2	4284.7	4338.1	4463.0	4507.9	4369.0	4259.4	4234.2
20°	4464.4	4287.5	4171.0	4127.5	4189.3	4392.8	4564.1	4481.3	4367.5	4335.3
22.5°	4507.9	4207.5	4019.4	3989.9	4054.5	4317.0	4621.7	4614.6	4489.7	4444.8
25°	4576.7	4154.2	3912.7	3891.6	3952.0	4280.5	4698.9	4795.7	4684.8	4620.3
27.5°	4684.8	4148.5	3857.9	3850.9	3933.7	4312.8	4809.8	5061.1	4922.1	4874.4
30°	4835.1	4201.9	3870.6	3884.6	3985.7	4429.3	4982.5	5364.3	5225.3	5150.9
32.5°	5051.3	4345.1	4062.9	4123.3	4197.7	4616.0	5235.2	5692.8	5587.5	5478.0
35°	5336.2	4738.2	4631.5	4888.4	4818.2	5024.6	5539.8	6091.5	5963.8	5868.3
37.5°	5716.7	5544.0	5642.3	5996.1	5826.2	5796.7	5911.8	6453.8	6383.6	6288.1
40°	6250.2	6285.3	6466.4	6931.1	6685.4	6495.9	6368.1	6726.1	6750.0	6632.0
42.5°	6604.0	6765.4	7202.0	7729.9	7391.6	6938.1	6750.0	7074.3	7075.7	6969.0
45°	6735.9	7158.5	8071.1	8678.9	8113.2	7190.8	6960.6	7547.4	7533.4	7411.2
47.5°	6688.2	7489.8	8973.8	9903.1	9039.7	7370.5	6931.1	8221.3	8335.0	8149.7
50°	6588.5	7822.6	10028.1	11402.5	10176.9	7561.4	6886.2	8968.1	9156.3	9013.1
52.5°	6689.6	8193.2	11274.8	12952.4	11603.3	7866.1	7189.4	9927.0	9893.3	9720.6
55°	7009.7	8631.2	12789.6	14899.6	13170.0	8381.3	7968.6	10841.0	10498.4	10292.0
57.5°	6994.3	8944.3	14117.7	16439.7	14533.2	8803.9	8239.5	10937.8	10245.7	9984.6
60°	6348.5	8801.1	14623.1	17414.0	14944.6	8570.8	7348.0	9769.8	8645.2	8371.5
62.5°	4738.2	7809.9	13643.2	16194.0	13780.7	7402.8	5525.8	7012.5	6212.3	5750.4
65°	3031.0	6109.8	11469.9	13119.5	11359.0	5662.0	3290.8	3759.7	2945.4	2813.4
67.5°	1290.2	4312.8	8916.2	8768.8	8497.8	3668.4	1270.5	1058.5	789.0	775.0
70°	426.8	2934.2	5496.3	5848.7	5075.1	2527.0	419.8	355.2	353.8	341.1
72.5°	279.4	1575.2	3094.2	3445.2	3265.5	1454.4	254.1	237.3	242.9	237.3
75°	167.1	342.6	520.8	676.7	520.8	244.3	153.0	150.2	153.0	146.0
77.5°	98.3	95.5	92.7	92.7	91.3	84.2	77.2	74.4	75.8	77.2
80°	63.2	60.4	57.6	56.2	49.1	46.3	43.5	40.7	40.7	42.1
82.5°	40.7	37.9	35.1	30.9	25.3	21.1	19.7	16.8	16.8	18.3
85°	21.1	16.8	12.6	9.8	5.6	2.8	0.0	0.0	0.0	0.0
87.5°	4.2	0.0	0.0	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

(END OF REPORT)