

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: P639254

Luminaire Tested: GWS-SA5B-740-U-SLR-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639254
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-43)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-740-U-SLR-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13892 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

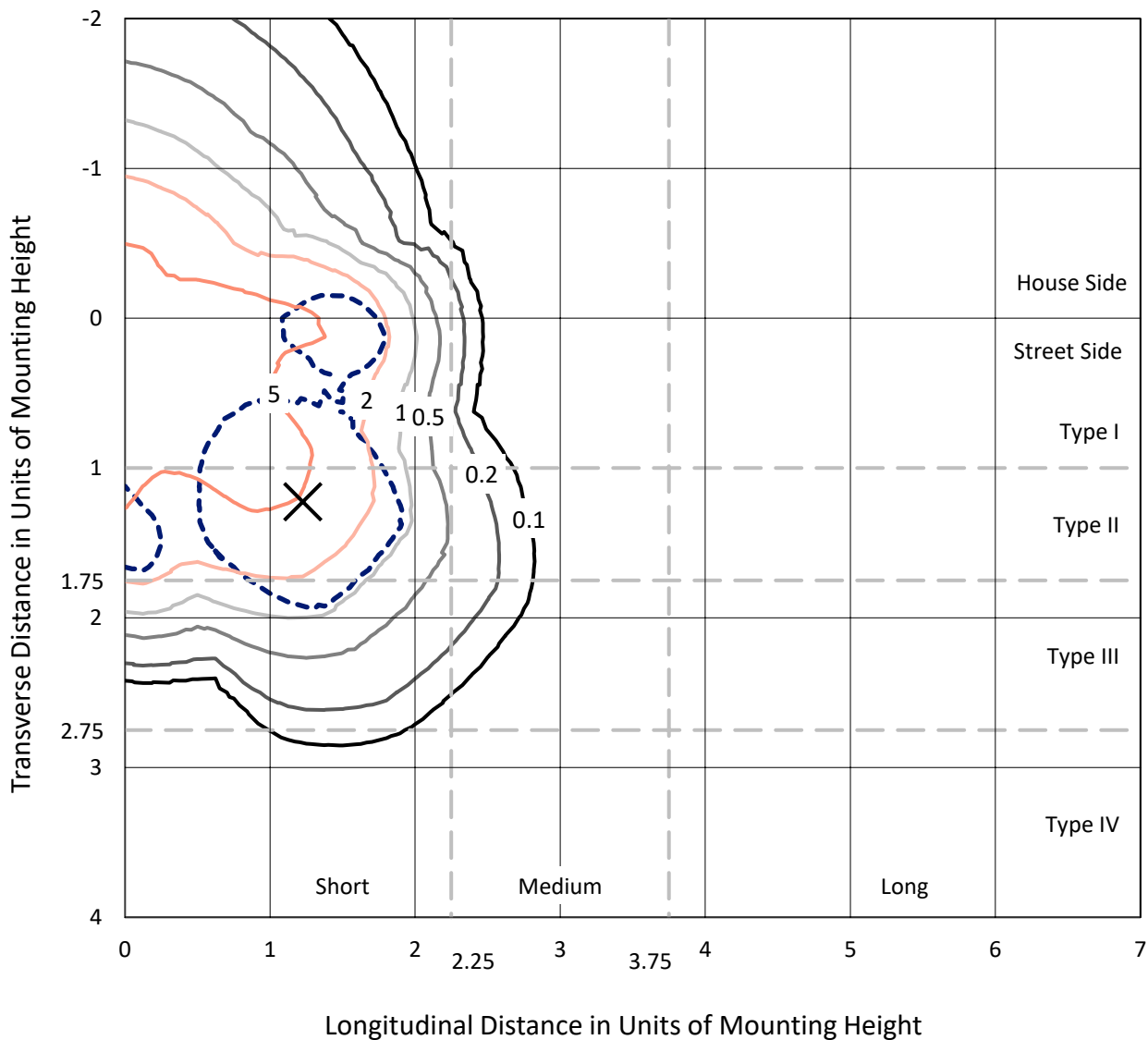
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

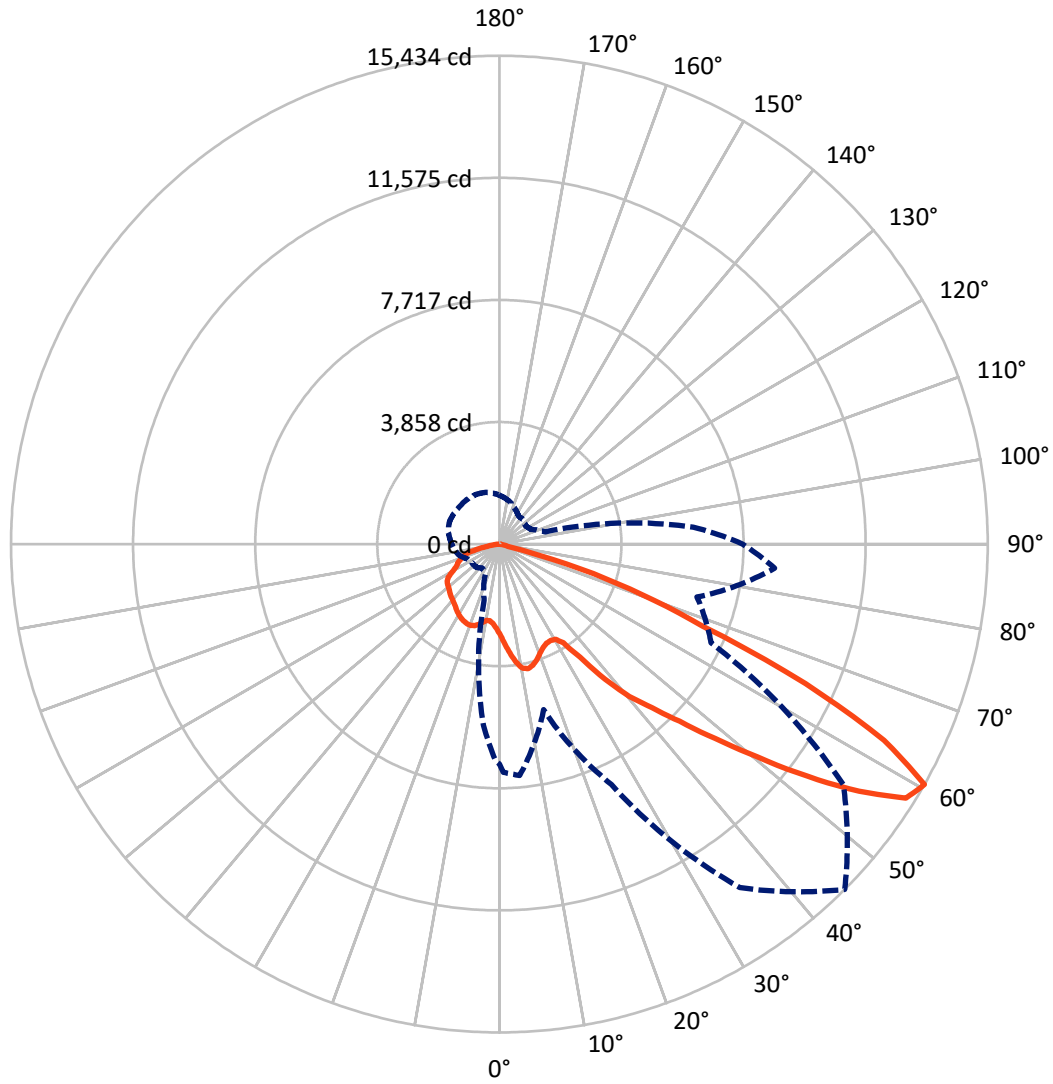
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4869.6	0.0	4869.6
	% Fixture	35.1	0.0	35.1
Street Side	Lumens	9022.4	0.0	9022.4
	% Fixture	64.9	0.0	64.9
Total	Lumens	13892.0	0.0	13892.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.4	2.0
10°-20°	879.9	6.3
20°-30°	1429.2	10.3
30°-40°	2015.6	14.5
40°-50°	2785.6	20.1
50°-60°	3585.9	25.8
60°-70°	2272.0	16.4
70°-80°	583.0	4.2
80°-90°	62.3	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°	13892.0	100.0
0°-180°	13892.0	100.0

Coefficient of Utilization



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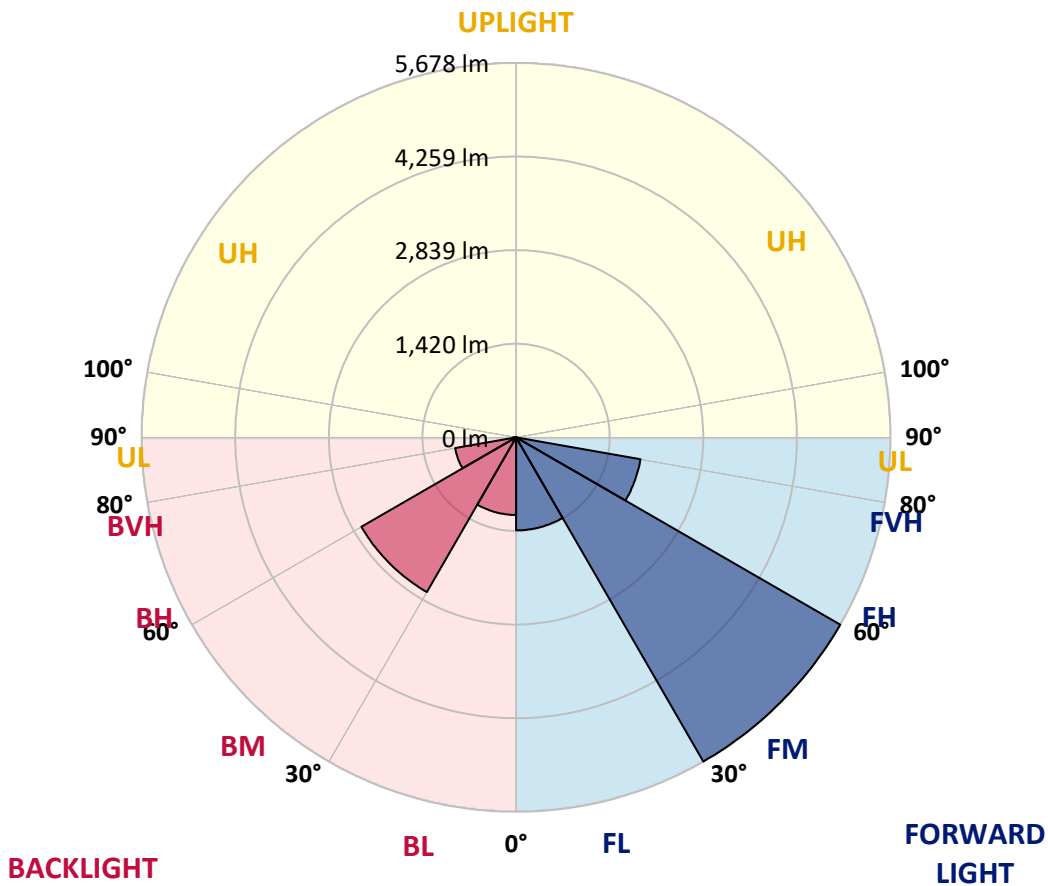
CATALOG NUMBER: GWS-SA5B-740-U-SLR-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1410.6	10.2			
FM (30°-60°)	5678.2	40.9			
FH (60°-80°)	1916.6	13.8			G2/5000
FVH (80°-90°)	16.9	0.1			G1/100
BL (0°-30°)	1177.0	8.5	B3/2500		
BM (30°-60°)	2708.8	19.5	B3/5000		
BH (60°-80°)	938.4	6.8	B2/1000		G2/1000
BVH (80°-90°)	45.4	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2853.8	2853.8	2853.8	2853.8	2853.8	2853.8	2853.8	2853.8	2853.8	2853.8	2853.8
2.5°	2984.9	3005.3	3018.0	3042.2	3085.5	3109.7	3136.4	3107.1	3114.8	3110.9	3063.9
5°	3161.9	3186.0	3219.1	3290.4	3370.6	3415.2	3457.2	3450.8	3411.4	3345.2	3298.1
7.5°	3327.3	3355.3	3412.6	3528.5	3646.8	3715.6	3766.5	3733.4	3700.3	3595.9	3477.5
10°	3457.2	3473.7	3551.4	3706.7	3844.1	3921.8	3984.2	3976.5	3930.7	3813.6	3654.5
12.5°	3579.4	3590.8	3674.8	3830.1	3953.6	3988.0	4038.9	4055.4	4040.2	3952.3	3795.8
15°	3710.5	3732.1	3809.8	3928.1	3984.2	3948.5	3966.3	4012.2	4055.4	4055.4	3911.6
17.5°	3832.7	3851.8	3930.7	3981.6	3928.1	3834.0	3839.0	3897.6	4000.7	4108.9	4017.2
20°	3940.9	3958.7	4036.3	3988.0	3818.7	3681.2	3677.4	3748.7	3915.4	4143.3	4130.5
22.5°	4059.3	4084.7	4149.6	3993.1	3716.8	3542.5	3541.2	3615.0	3840.3	4177.6	4260.4
25°	4227.3	4266.7	4299.8	4037.6	3662.1	3452.1	3468.6	3538.6	3816.1	4233.6	4452.6
27.5°	4476.8	4508.6	4506.0	4130.5	3659.6	3415.2	3449.5	3531.0	3859.4	4332.9	4655.0
30°	4746.6	4763.2	4736.4	4260.4	3718.1	3438.1	3489.0	3585.7	3968.9	4497.1	4952.8
32.5°	5045.7	5066.1	5015.2	4455.1	3854.3	3607.4	3719.4	3766.5	4122.9	4733.9	5268.5
35°	5389.4	5428.9	5323.2	4712.2	4255.3	4224.7	4387.7	4326.6	4450.0	5013.9	5605.8
37.5°	5750.9	5752.2	5600.7	5092.8	5041.9	5094.1	5420.0	5229.0	5143.8	5325.8	5949.5
40°	6057.7	6050.1	5817.1	5605.8	5726.7	5934.2	6327.5	6034.8	5810.8	5744.6	6234.6
42.5°	6364.5	6336.5	6101.0	5931.7	6199.0	6625.4	7069.6	6710.7	6238.4	6125.2	6515.9
45°	6756.5	6747.6	6463.7	6061.5	6625.4	7399.3	7988.7	7407.0	6491.7	6346.6	6984.4
47.5°	7389.1	7345.9	6817.6	6051.3	7025.1	8430.4	9175.0	8284.0	6668.7	6351.7	7740.5
50°	8007.8	7954.3	7240.2	6050.1	7437.5	9499.6	10575.2	9349.4	6849.4	6382.3	8509.3
52.5°	8632.8	8632.8	7933.9	6193.9	7870.3	10693.6	12193.0	10677.0	7157.5	6782.0	9455.0
55°	9004.4	9103.7	8714.2	6437.0	8376.9	12098.8	13793.1	12110.3	7633.5	7503.7	10328.2
57.5°	8532.2	8718.0	8662.0	6267.7	8676.0	13131.2	15150.0	13197.3	7869.0	7589.0	10197.1
60°	6952.5	7210.9	7339.5	5412.3	8380.7	13250.8	15433.8	13268.6	7382.8	6462.5	8734.6
62.5°	4621.9	4834.4	5030.5	3867.0	7255.5	11920.6	13650.5	11924.5	6165.9	4823.0	6051.3
65°	2267.0	2424.9	2636.2	2286.1	5668.2	9960.4	10642.7	9635.8	4460.2	2699.8	3086.8
67.5°	593.2	637.7	667.0	887.2	4060.5	7156.2	6941.1	7048.0	2865.3	882.1	807.0
70°	308.0	310.6	309.3	366.6	2744.4	4548.0	4783.5	4425.8	1999.7	369.1	318.2
72.5°	220.2	221.5	217.7	246.9	1325.1	2605.6	2699.8	2670.5	1047.6	218.9	217.7
75°	143.8	145.1	142.6	145.1	199.8	296.6	273.7	287.7	174.4	138.7	138.7
77.5°	85.3	86.6	85.3	87.8	85.3	85.3	78.9	78.9	75.1	75.1	76.4
80°	57.3	57.3	56.0	58.6	53.5	53.5	50.9	49.6	45.8	44.6	44.6
82.5°	34.4	35.6	34.4	34.4	31.8	31.8	29.3	28.0	24.2	24.2	22.9
85°	17.8	17.8	16.5	16.5	14.0	12.7	10.2	10.2	7.6	6.4	6.4
87.5°	2.5	2.5	1.3	1.3	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2853.8	2853.8	2853.8	2853.8	2853.8	2853.8	2853.8	2853.8	2853.8	2853.8	2853.8
2.5°	3051.1	3025.7	2987.5	2950.6	2916.2	2880.6	2839.8	2797.8	2762.2	2725.3	2706.2
5°	3235.7	3183.5	3084.2	2996.4	2917.5	2852.6	2782.5	2722.7	2666.7	2620.9	2598.0
7.5°	3402.4	3321.0	3170.8	3032.0	2925.1	2836.0	2739.3	2650.2	2575.1	2519.1	2497.4
10°	3556.5	3459.7	3262.4	3086.8	2962.0	2862.7	2744.4	2623.4	2524.1	2450.3	2432.5
12.5°	3681.2	3570.5	3335.0	3131.3	2983.7	2876.7	2772.4	2668.0	2570.0	2474.5	2459.2
15°	3791.9	3660.8	3389.7	3159.3	2976.0	2839.8	2752.0	2739.3	2739.3	2631.1	2600.5
17.5°	3887.4	3743.6	3434.3	3172.0	2927.7	2730.4	2676.9	2787.6	2912.4	2834.7	2766.0
20°	3996.9	3822.5	3471.2	3172.0	2838.5	2591.6	2586.5	2774.9	2959.5	2960.7	2888.2
22.5°	4107.6	3914.1	3514.5	3160.6	2716.4	2431.2	2525.4	2724.0	2888.2	2958.2	2908.6
25°	4287.1	4041.4	3583.2	3151.7	2573.8	2321.8	2470.7	2656.5	2795.3	2869.1	2837.3
27.5°	4514.9	4209.5	3687.6	3165.7	2432.5	2256.8	2412.1	2568.7	2694.7	2759.6	2736.7
30°	4769.5	4402.9	3799.6	3189.9	2330.7	2223.7	2342.1	2468.1	2580.2	2645.1	2634.9
32.5°	5094.1	4613.0	3896.3	3156.8	2273.4	2207.2	2268.3	2358.7	2466.9	2507.6	2516.5
35°	5482.3	4844.6	3970.2	3026.9	2221.2	2189.4	2188.1	2244.1	2320.5	2385.4	2391.8
37.5°	5840.0	5115.8	4051.6	2804.2	2127.0	2144.8	2093.9	2127.0	2202.1	2267.0	2292.5
40°	6193.9	5390.7	4164.9	2520.3	2003.5	2045.5	1985.7	2008.6	2068.4	2153.7	2194.5
42.5°	6537.6	5638.9	4284.6	2230.1	1880.1	1906.8	1862.2	1885.2	1947.5	2054.4	2100.3
45°	6911.8	5975.0	4377.5	1956.4	1773.1	1761.7	1726.0	1759.1	1853.3	1970.4	2025.2
47.5°	7619.5	6504.5	4438.6	1774.4	1715.9	1633.1	1592.4	1663.7	1770.6	1889.0	1955.2
50°	8483.8	7270.8	4420.8	1658.6	1666.2	1500.7	1486.7	1580.9	1695.5	1819.0	1891.5
52.5°	9168.6	8023.0	4218.4	1547.8	1569.5	1416.7	1376.0	1513.5	1622.9	1749.0	1824.1
55°	9691.8	8276.3	3597.2	1416.7	1411.6	1355.6	1270.3	1443.5	1550.4	1667.5	1749.0
57.5°	9265.4	7712.5	2666.7	1236.0	1205.4	1234.7	1152.0	1325.1	1461.3	1577.1	1649.7
60°	7689.5	6149.3	1485.5	1094.7	1008.1	1079.4	1066.7	1200.3	1364.5	1486.7	1549.1
62.5°	5220.1	4094.9	880.8	865.6	817.2	919.0	986.5	1074.3	1236.0	1335.3	1393.8
65°	2601.8	1989.5	585.5	647.9	654.3	756.1	883.4	980.1	1115.1	1216.9	1275.4
67.5°	754.8	618.6	445.5	495.2	563.9	645.4	747.2	861.7	992.9	1113.8	1182.5
70°	325.9	329.7	353.9	412.4	479.9	563.9	665.7	777.7	888.5	981.4	1033.6
72.5°	230.4	239.3	266.0	325.9	389.5	469.7	571.5	679.7	759.9	854.1	908.8
75°	147.7	154.0	175.7	221.5	268.6	346.2	443.0	542.3	625.0	692.5	744.6
77.5°	81.5	82.7	100.6	127.3	159.1	208.8	280.0	357.7	418.8	457.0	504.1
80°	47.1	47.1	56.0	72.6	91.6	122.2	161.7	199.8	236.8	260.9	283.9
82.5°	25.5	25.5	29.3	39.5	49.6	67.5	90.4	109.5	132.4	145.1	160.4
85°	7.6	7.6	10.2	14.0	17.8	25.5	35.6	45.8	56.0	64.9	73.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2853.8	2853.8	2853.8	2853.8	2853.8	2853.8	2853.8	2853.8	2853.8	2853.8	2853.8
2.5°	2702.3	2684.5	2674.3	2661.6	2665.4	2654.0	2647.6	2651.4	2628.5	2651.4	2674.3
5°	2589.1	2563.6	2543.2	2526.7	2519.1	2503.8	2494.9	2494.9	2480.9	2503.8	2531.8
7.5°	2489.8	2469.4	2459.2	2449.0	2437.6	2423.6	2408.3	2403.2	2394.3	2418.5	2442.7
10°	2423.6	2426.1	2432.5	2446.5	2444.0	2435.0	2412.1	2399.4	2399.4	2427.4	2464.3
12.5°	2454.1	2480.9	2496.1	2521.6	2526.7	2519.1	2496.1	2486.0	2511.4	2553.4	2614.5
15°	2572.5	2590.3	2603.1	2623.4	2622.2	2615.8	2598.0	2605.6	2689.6	2771.1	2825.8
17.5°	2701.1	2680.7	2678.2	2690.9	2694.7	2687.1	2676.9	2711.3	2850.0	2926.4	2954.4
20°	2794.0	2724.0	2708.7	2713.8	2724.0	2720.2	2720.2	2776.2	2920.0	2955.7	2920.0
22.5°	2822.0	2722.7	2699.8	2701.1	2715.1	2716.4	2722.7	2781.3	2865.3	2866.6	2811.8
25°	2777.5	2682.0	2665.4	2668.0	2684.5	2683.3	2685.8	2718.9	2755.8	2740.5	2699.8
27.5°	2693.4	2610.7	2605.6	2619.6	2641.3	2629.8	2622.2	2631.1	2648.9	2629.8	2594.2
30°	2598.0	2528.0	2530.5	2557.2	2580.2	2561.1	2542.0	2547.1	2548.3	2528.0	2487.2
32.5°	2497.4	2445.2	2454.1	2482.1	2508.9	2488.5	2468.1	2465.6	2441.4	2417.2	2377.8
35°	2396.9	2376.5	2387.9	2410.9	2433.8	2417.2	2404.5	2396.9	2344.7	2309.0	2275.9
37.5°	2305.2	2320.5	2340.8	2354.9	2362.5	2361.2	2353.6	2335.8	2267.0	2225.0	2181.7
40°	2223.7	2270.8	2292.5	2298.8	2310.3	2307.8	2306.5	2281.0	2190.6	2146.1	2096.5
42.5°	2149.9	2216.1	2253.0	2259.4	2265.7	2267.0	2263.2	2226.3	2123.2	2071.0	2023.9
45°	2078.6	2165.2	2212.3	2205.9	2214.8	2214.8	2218.7	2170.3	2057.0	2003.5	1953.9
47.5°	2016.3	2118.1	2161.4	2153.7	2158.8	2162.6	2166.5	2110.5	1984.4	1933.5	1882.6
50°	1959.0	2067.2	2104.1	2106.6	2106.6	2115.5	2114.3	2059.5	1923.3	1868.6	1817.7
52.5°	1897.9	2015.0	2054.4	2071.0	2076.1	2079.9	2062.1	1998.4	1861.0	1794.8	1747.7
55°	1826.6	1961.5	1997.2	2018.8	2029.0	2026.4	2002.3	1937.3	1797.3	1731.1	1677.7
57.5°	1718.4	1847.0	1897.9	1908.1	1924.6	1914.4	1886.4	1831.7	1695.5	1629.3	1574.6
60°	1600.0	1692.9	1733.7	1742.6	1729.9	1733.7	1729.9	1677.7	1559.3	1507.1	1451.1
62.5°	1444.7	1527.5	1570.7	1582.2	1560.6	1574.6	1569.5	1504.6	1386.2	1331.4	1281.8
65°	1327.6	1418.0	1468.9	1475.3	1468.9	1475.3	1457.5	1378.5	1266.5	1210.5	1159.6
67.5°	1236.0	1328.9	1382.4	1400.2	1393.8	1392.5	1364.5	1272.9	1157.1	1096.0	1031.0
70°	1078.1	1159.6	1228.3	1271.6	1271.6	1247.4	1194.0	1108.7	1015.8	963.6	912.7
72.5°	954.7	1057.8	1125.2	1169.8	1178.7	1164.7	1089.6	999.2	892.3	840.1	786.6
75°	786.6	887.2	959.8	1018.3	1029.8	1014.5	927.9	838.8	739.6	688.6	635.2
77.5°	525.7	585.5	644.1	697.5	686.1	696.3	637.7	570.3	509.2	471.0	446.8
80°	296.6	336.0	353.9	383.1	383.1	383.1	345.0	313.1	278.8	257.1	232.9
82.5°	168.0	193.5	201.1	225.3	231.7	232.9	207.5	187.1	165.5	154.0	137.5
85°	77.6	91.6	92.9	106.9	112.0	122.2	110.7	96.7	84.0	78.9	68.7
87.5°	2.5	7.6	10.2	19.1	25.5	29.3	31.8	31.8	26.7	24.2	20.4
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: P639254

CATALOG NUMBER: GWS-SA5B-740-U-SLR-W-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2853.8	2853.8	2853.8	2853.8	2853.8	2853.8	2853.8	2853.8	2853.8	2853.8
2.5°	2702.3	2732.9	2768.5	2794.0	2839.8	2878.0	2917.5	2960.7	2992.6	2984.9
5°	2566.2	2617.1	2682.0	2741.8	2827.1	2913.6	3009.1	3107.1	3164.4	3161.9
7.5°	2489.8	2562.3	2641.3	2721.4	2822.0	2946.7	3093.1	3245.9	3323.5	3327.3
10°	2530.5	2608.2	2661.6	2729.1	2834.7	2991.3	3167.0	3350.3	3439.4	3457.2
12.5°	2659.1	2652.7	2648.9	2697.3	2824.5	3023.1	3238.2	3457.2	3557.7	3579.4
15°	2781.3	2650.2	2571.2	2604.3	2778.7	3043.5	3308.2	3574.3	3687.6	3710.5
17.5°	2804.2	2605.6	2459.2	2482.1	2706.2	3049.8	3375.7	3688.8	3811.0	3832.7
20°	2740.5	2548.3	2377.8	2345.9	2614.5	3033.3	3417.7	3784.3	3918.0	3940.9
22.5°	2660.3	2497.4	2316.7	2233.9	2502.5	3016.8	3464.8	3884.9	4038.9	4059.3
25°	2576.3	2432.5	2259.4	2133.4	2375.2	3006.6	3543.7	4017.2	4203.1	4227.3
27.5°	2487.2	2353.6	2209.7	2085.0	2258.1	3019.3	3655.7	4231.1	4442.4	4476.8
30°	2391.8	2274.7	2177.9	2068.4	2177.9	3030.8	3779.2	4450.0	4698.2	4746.6
32.5°	2292.5	2202.1	2144.8	2076.1	2128.3	3004.0	3887.4	4695.7	5003.7	5045.7
35°	2193.2	2128.3	2102.8	2090.1	2062.1	2906.0	3975.2	4943.9	5352.5	5389.4
37.5°	2100.3	2051.9	2044.3	2058.3	1960.3	2745.6	4077.1	5259.6	5694.9	5750.9
40°	2013.7	1969.2	1967.9	1965.3	1848.2	2526.7	4214.5	5580.4	6032.2	6057.7
42.5°	1933.5	1877.5	1887.7	1857.1	1756.6	2289.9	4344.4	5854.0	6346.6	6364.5
45°	1862.2	1788.4	1799.9	1761.7	1713.3	2041.7	4458.9	6177.3	6745.1	6756.5
47.5°	1793.5	1714.6	1682.8	1680.2	1705.7	1812.6	4571.0	6799.8	7368.8	7389.1
50°	1729.9	1644.6	1554.2	1610.2	1658.6	1640.8	4711.0	7466.8	8012.9	8007.8
52.5°	1668.8	1556.7	1428.2	1536.4	1536.4	1513.5	4671.5	7871.6	8544.9	8632.8
55°	1598.8	1415.5	1297.1	1412.9	1356.9	1398.9	3972.7	8003.9	8879.7	9004.4
57.5°	1460.0	1241.1	1138.0	1200.3	1116.3	1297.1	2853.8	7347.1	8310.7	8532.2
60°	1326.4	1112.5	1045.0	1033.6	924.1	1057.8	1849.5	5752.2	6840.5	6952.5
62.5°	1169.8	1001.8	944.5	856.7	743.4	770.1	1120.1	3785.6	4596.4	4621.9
65°	1051.4	907.6	798.1	693.7	608.4	558.8	661.9	1825.3	2297.6	2267.0
67.5°	902.5	777.7	673.4	598.3	528.3	465.9	440.4	542.3	613.5	593.2
70°	803.2	683.5	583.0	511.7	446.8	384.4	339.9	319.5	313.1	308.0
72.5°	692.5	588.1	483.7	415.0	353.9	296.6	255.9	231.7	225.3	220.2
75°	552.4	454.4	359.0	294.0	240.6	199.8	173.1	152.7	148.9	143.8
77.5°	365.3	291.5	213.8	174.4	142.6	120.9	103.1	90.4	87.8	85.3
80°	201.1	168.0	131.1	105.7	85.3	73.8	67.5	59.8	58.6	57.3
82.5°	119.7	100.6	75.1	59.8	49.6	44.6	40.7	36.9	35.6	34.4
85°	59.8	47.1	33.1	28.0	25.5	22.9	22.9	19.1	17.8	17.8
87.5°	15.3	12.7	7.6	6.4	6.4	6.4	5.1	3.8	3.8	2.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)