

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: P639250

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639250
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-SA5B-740-U-SLL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT 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: 13820.8 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

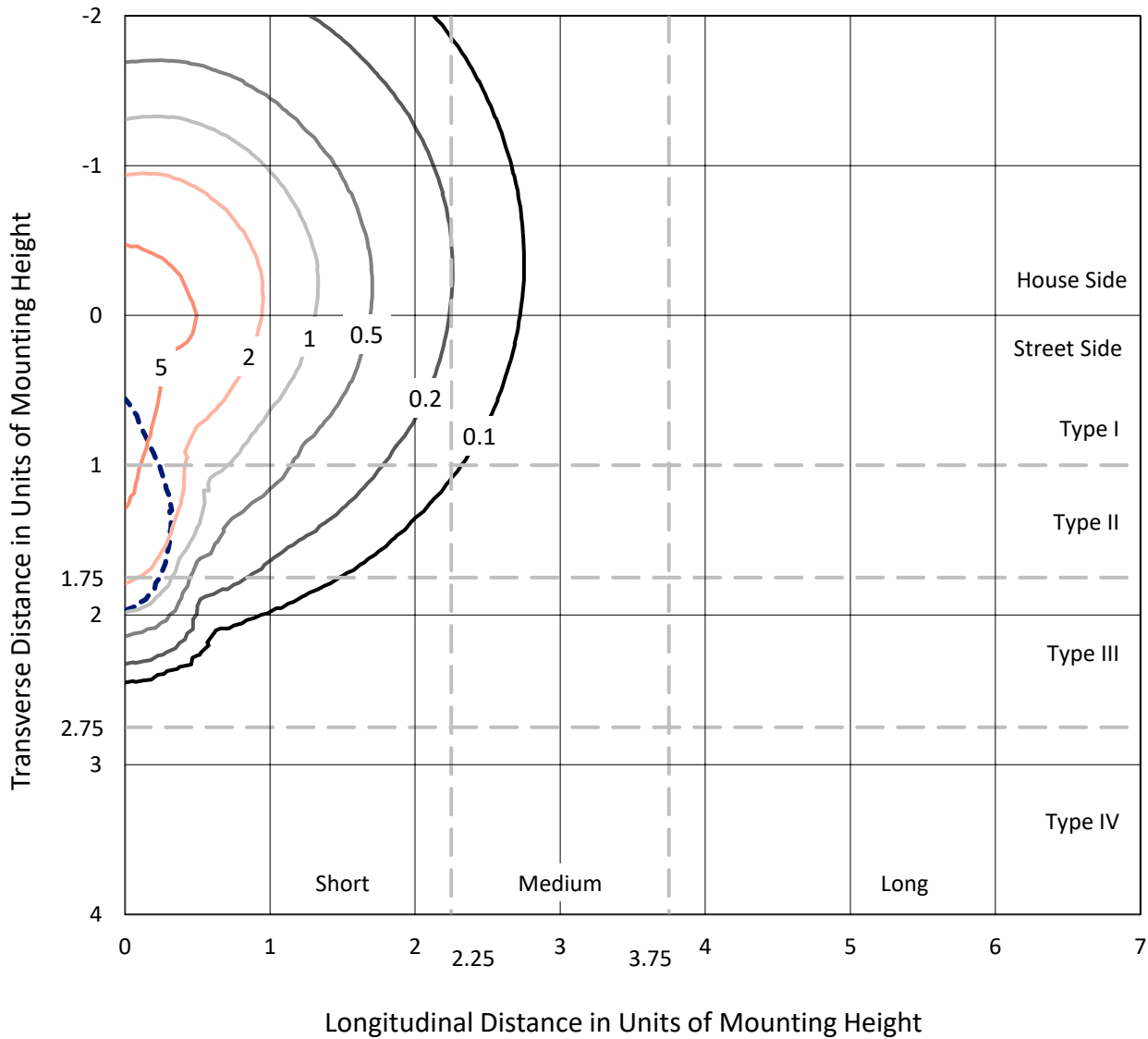
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

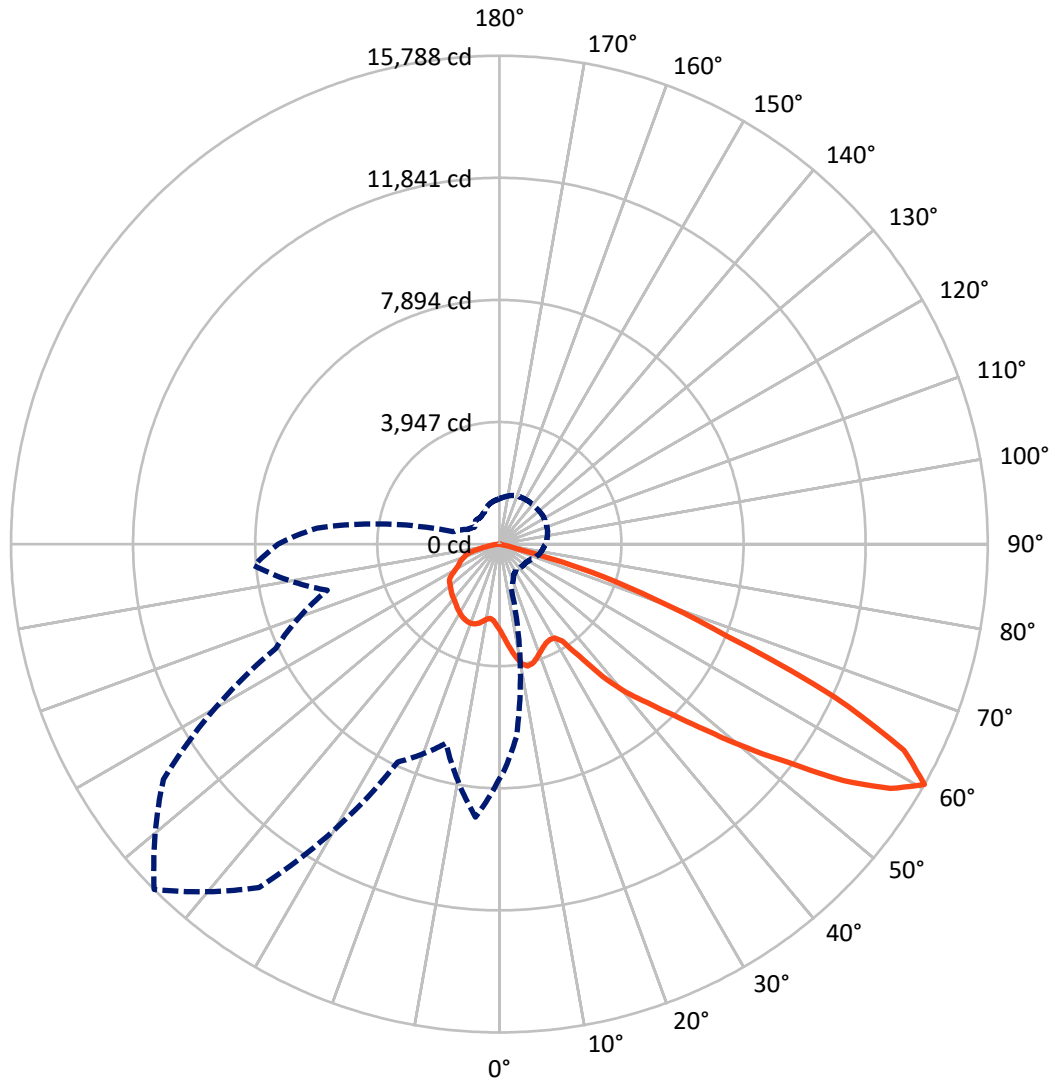
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.4 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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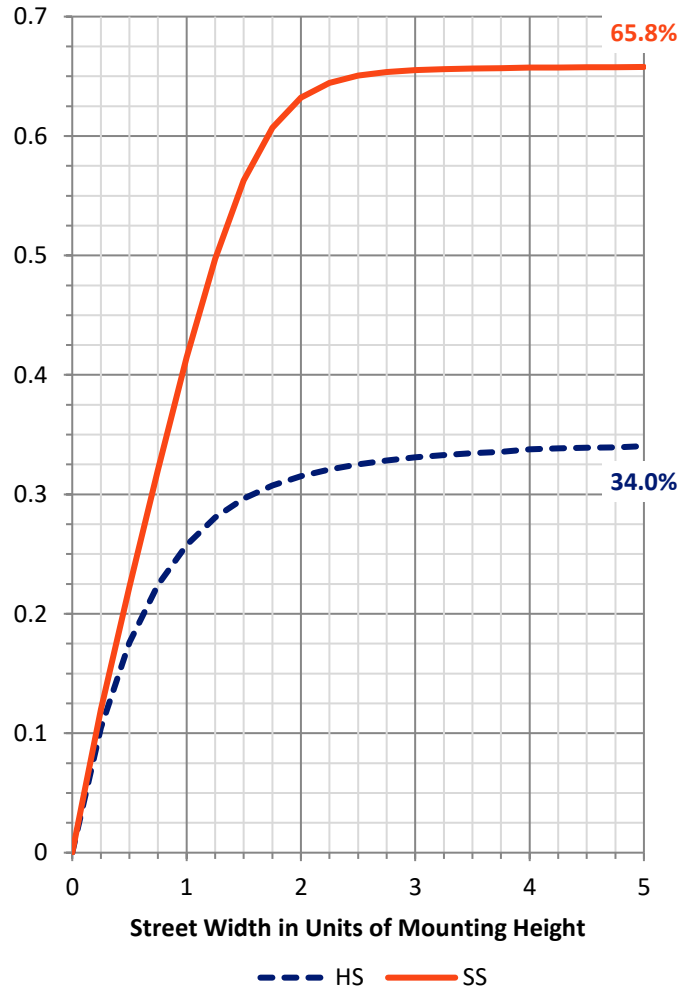
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4728.0	0.0	4728.0
	% Fixture	34.2	0.0	34.2
Street Side	Lumens	9092.8	0.0	9092.8
	% Fixture	65.8	0.0	65.8
Total	Lumens	13820.8	0.0	13820.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.3	2.0
10°-20°	873.5	6.3
20°-30°	1422.6	10.3
30°-40°	1998.5	14.5
40°-50°	2734.7	19.8
50°-60°	3508.5	25.4
60°-70°	2362.5	17.1
70°-80°	590.6	4.3
80°-90°	57.6	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°	13820.8	100.0
0°-180°	13820.8	100.0

Coefficient of Utilization



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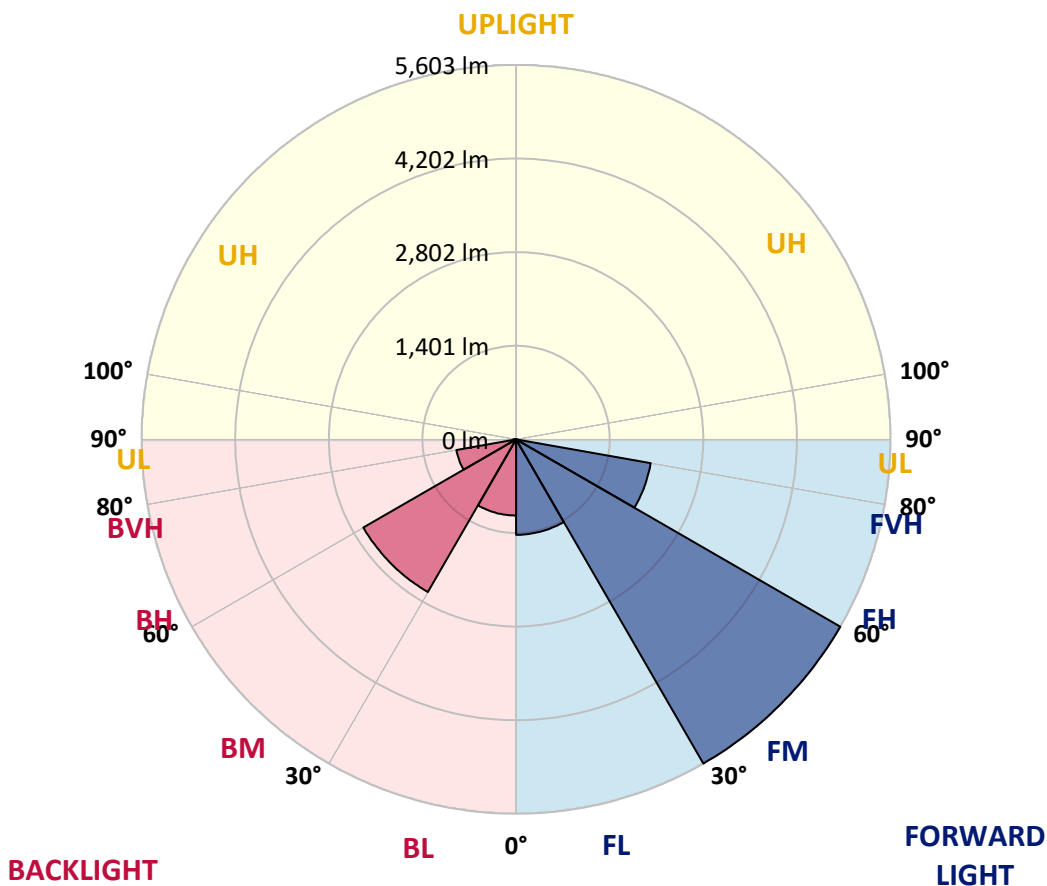
CATALOG NUMBER: GWS-SA5B-740-U-SLL-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1428.8	10.3			
FM (30°-60°)	5603.1	40.5			
FH (60°-80°)	2046.0	14.8			G2/5000
FVH (80°-90°)	15.0	0.1			G1/100
BL (0°-30°)	1139.7	8.2	B3/2500		
BM (30°-60°)	2638.6	19.1	B3/5000		
BH (60°-80°)	907.0	6.6	B2/1000		G2/1000
BVH (80°-90°)	42.6	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°	2787.5	2787.5	2787.5	2787.5	2787.5	2787.5	2787.5	2787.5	2787.5	2787.5	2787.5
2.5°	2949.2	2942.8	2936.4	2886.8	2874.1	2838.4	2813.0	2781.1	2735.3	2709.9	2688.2
5°	3133.7	3123.5	3089.2	2987.3	2921.2	2848.6	2788.8	2722.6	2652.6	2606.8	2571.1
7.5°	3308.1	3305.6	3247.0	3079.0	2972.1	2867.7	2786.2	2689.5	2588.9	2520.2	2474.4
10°	3469.7	3450.7	3380.6	3161.7	3021.7	2902.1	2814.2	2707.3	2590.2	2497.3	2436.2
12.5°	3612.3	3588.1	3491.4	3238.1	3065.0	2917.3	2821.9	2734.0	2656.4	2578.8	2508.8
15°	3729.4	3700.1	3602.1	3309.4	3103.2	2908.4	2774.8	2706.0	2732.8	2767.1	2689.5
17.5°	3838.9	3808.3	3688.7	3361.6	3114.6	2853.7	2659.0	2629.7	2764.6	2921.2	2885.5
20°	3930.5	3896.1	3757.4	3387.0	3094.3	2749.3	2508.8	2559.7	2737.9	2925.0	2982.3
22.5°	4029.8	4001.8	3835.1	3423.9	3068.8	2605.5	2382.7	2507.5	2692.0	2856.2	2942.8
25°	4188.9	4154.5	3956.0	3488.8	3056.1	2470.6	2292.4	2456.6	2628.4	2777.3	2844.8
27.5°	4419.3	4355.6	4121.4	3602.1	3070.1	2343.3	2235.1	2394.2	2554.6	2681.9	2736.6
30°	4670.0	4593.7	4304.7	3719.2	3090.4	2265.6	2204.6	2322.9	2441.3	2568.6	2628.4
32.5°	4966.6	4899.1	4500.7	3807.0	3047.2	2230.0	2181.6	2245.3	2339.5	2441.3	2490.9
35°	5320.4	5199.5	4714.6	3878.3	2907.2	2177.8	2161.3	2160.0	2209.6	2308.9	2364.9
37.5°	5701.0	5571.2	4978.1	3954.7	2689.5	2095.1	2112.9	2059.4	2105.3	2184.2	2247.8
40°	6012.9	5876.7	5244.1	4059.1	2417.1	1965.3	2006.0	1948.7	1976.7	2058.2	2129.5
42.5°	6318.4	6173.2	5492.3	4177.4	2153.6	1838.0	1858.3	1836.7	1845.6	1930.9	2030.2
45°	6719.3	6556.4	5797.8	4261.5	1916.9	1737.4	1718.3	1681.4	1728.5	1839.2	1944.9
47.5°	7388.8	7194.1	6298.0	4316.2	1745.1	1680.1	1592.3	1570.7	1629.2	1752.7	1862.2
50°	8171.6	8003.6	7097.3	4313.6	1616.5	1631.8	1470.1	1451.0	1547.8	1672.5	1788.3
52.5°	8813.1	8642.5	7780.8	4186.4	1510.9	1528.7	1398.8	1345.4	1477.8	1593.6	1709.4
55°	9331.2	9139.0	8095.2	3654.3	1377.2	1364.5	1321.2	1223.2	1389.9	1514.7	1622.9
57.5°	9052.4	8823.3	7714.7	2778.6	1239.7	1159.6	1187.6	1115.0	1270.3	1426.8	1531.2
60°	7589.9	7383.7	6267.4	1479.0	1090.8	968.6	1027.2	1038.6	1139.2	1321.2	1428.1
62.5°	5213.5	5063.3	4247.5	897.3	860.4	777.7	869.3	952.1	1027.2	1181.2	1274.1
65°	2550.8	2506.2	2124.4	575.3	602.1	628.8	720.4	821.0	931.7	1066.6	1164.6
67.5°	702.6	707.7	644.1	449.3	474.8	548.6	621.1	701.3	812.1	936.8	1036.1
70°	309.3	314.4	324.6	346.2	394.6	462.0	537.1	619.9	721.7	826.1	921.5
72.5°	215.1	220.2	235.5	263.5	306.8	370.4	441.7	520.6	626.2	714.1	793.0
75°	132.4	136.2	150.2	174.4	203.7	252.0	322.0	394.6	487.5	567.7	637.7
77.5°	70.0	67.5	76.4	92.9	118.4	143.8	190.9	236.7	302.9	367.8	426.4
80°	38.2	36.9	42.0	50.9	58.6	78.9	110.7	141.3	179.5	216.4	248.2
82.5°	16.5	15.3	16.5	21.6	26.7	38.2	56.0	77.6	99.3	124.7	145.1
85°	0.0	0.0	0.0	1.3	6.4	10.2	19.1	28.0	40.7	56.0	68.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	11.5
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2787.5	2787.5	2787.5	2787.5	2787.5	2787.5	2787.5	2787.5	2787.5	2787.5	2787.5
2.5°	2675.5	2643.7	2641.1	2615.7	2618.2	2619.5	2594.0	2583.9	2592.8	2602.9	2597.9
5°	2558.4	2525.3	2511.3	2487.1	2484.6	2473.1	2462.9	2450.2	2459.1	2468.0	2473.1
7.5°	2456.6	2434.9	2426.0	2419.7	2422.2	2417.1	2396.7	2385.3	2384.0	2387.8	2392.9
10°	2423.5	2405.7	2417.1	2434.9	2447.7	2456.6	2434.9	2415.8	2398.0	2390.4	2390.4
12.5°	2494.8	2471.8	2494.8	2513.8	2539.3	2545.7	2521.5	2501.1	2494.8	2502.4	2517.7
15°	2652.6	2599.1	2597.9	2609.3	2629.7	2639.9	2616.9	2606.8	2606.8	2655.1	2693.3
17.5°	2810.4	2722.6	2685.7	2679.3	2692.0	2695.9	2676.8	2667.9	2690.8	2785.0	2856.2
20°	2921.2	2814.2	2734.0	2718.8	2722.6	2723.9	2708.6	2702.2	2735.3	2849.9	2909.7
22.5°	2909.7	2830.8	2732.8	2713.7	2720.0	2717.5	2703.5	2701.0	2727.7	2827.0	2855.0
25°	2830.8	2769.7	2687.0	2674.2	2684.4	2683.1	2669.1	2662.8	2674.2	2740.4	2743.0
27.5°	2740.4	2687.0	2615.7	2611.9	2628.4	2637.3	2613.1	2594.0	2590.2	2634.8	2624.6
30°	2632.2	2592.8	2535.5	2538.0	2568.6	2573.7	2544.4	2516.4	2508.8	2532.9	2518.9
32.5°	2503.7	2490.9	2460.4	2466.8	2496.0	2506.2	2475.7	2446.4	2437.5	2445.1	2415.8
35°	2394.2	2389.1	2391.7	2403.1	2428.6	2436.2	2410.7	2387.8	2375.1	2348.4	2310.2
37.5°	2280.9	2294.9	2331.8	2353.5	2367.5	2364.9	2350.9	2334.4	2314.0	2264.4	2217.3
40°	2175.3	2210.9	2277.1	2301.3	2306.4	2307.6	2297.5	2283.5	2258.0	2191.8	2138.4
42.5°	2093.8	2133.3	2221.1	2258.0	2260.6	2263.1	2252.9	2241.5	2205.8	2118.0	2065.8
45°	2008.5	2060.7	2163.8	2208.4	2205.8	2204.6	2195.6	2190.5	2148.5	2046.7	1989.4
47.5°	1936.0	1997.1	2107.8	2146.0	2144.7	2143.5	2137.1	2137.1	2095.1	1984.3	1919.4
50°	1864.7	1934.7	2050.5	2082.4	2084.9	2082.4	2079.8	2083.6	2034.0	1915.6	1852.0
52.5°	1787.1	1866.0	1986.9	2016.2	2031.4	2037.8	2037.8	2028.9	1970.3	1846.9	1776.9
55°	1701.8	1776.9	1916.9	1956.3	1969.1	1980.5	1980.5	1962.7	1908.0	1783.2	1708.1
57.5°	1596.1	1662.3	1773.1	1812.5	1843.1	1850.7	1850.7	1821.4	1776.9	1657.2	1596.1
60°	1481.6	1538.9	1614.0	1656.0	1678.9	1663.6	1675.1	1667.4	1631.8	1521.0	1470.1
62.5°	1328.8	1387.4	1470.1	1513.4	1523.6	1508.3	1523.6	1522.3	1473.9	1374.7	1313.6
65°	1219.4	1276.7	1358.1	1414.1	1430.7	1426.8	1437.0	1421.8	1361.9	1267.7	1209.2
67.5°	1089.5	1150.6	1244.8	1307.2	1341.6	1345.4	1359.4	1327.6	1266.5	1163.4	1089.5
70°	966.1	1018.3	1090.8	1149.4	1197.7	1221.9	1224.5	1178.6	1102.3	1017.0	963.5
72.5°	836.3	889.7	977.5	1041.2	1102.3	1130.3	1130.3	1074.3	991.5	897.3	840.1
75°	678.4	728.1	808.3	877.0	947.0	982.6	981.4	933.0	841.3	752.2	692.4
77.5°	459.5	496.4	547.3	599.5	609.7	637.7	651.7	590.6	539.7	491.3	437.9
80°	267.3	290.2	318.2	347.5	353.8	362.8	339.8	316.9	290.2	258.4	234.2
82.5°	156.6	171.8	185.8	208.7	212.6	215.1	194.7	184.6	162.9	143.8	128.6
85°	76.4	81.5	94.2	105.6	100.6	98.0	89.1	78.9	70.0	62.4	54.7
87.5°	15.3	15.3	22.9	21.6	17.8	15.3	8.9	11.5	2.5	2.5	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°	2787.5	2787.5	2787.5	2787.5	2787.5	2787.5	2787.5	2787.5	2787.5	2787.5	2787.5
2.5°	2614.4	2636.0	2662.8	2698.4	2739.1	2782.4	2824.4	2856.2	2888.1	2935.2	2927.5
5°	2480.8	2517.7	2559.7	2614.4	2680.6	2755.7	2839.7	2923.7	3014.1	3090.4	3123.5
7.5°	2403.1	2443.8	2493.5	2564.8	2650.0	2741.7	2860.1	2996.3	3142.6	3243.2	3305.6
10°	2403.1	2455.3	2520.2	2588.9	2664.0	2758.2	2904.6	3075.2	3263.5	3395.9	3468.5
12.5°	2541.9	2594.0	2608.0	2605.5	2647.5	2751.9	2940.2	3157.9	3383.2	3523.2	3612.3
15°	2758.2	2776.1	2670.4	2573.7	2580.0	2706.0	2956.8	3224.1	3486.3	3654.3	3751.0
17.5°	2903.3	2856.2	2667.9	2498.6	2462.9	2628.4	2956.8	3287.7	3595.8	3785.4	3875.8
20°	2914.8	2797.7	2602.9	2426.0	2334.4	2525.3	2936.4	3336.1	3701.4	3911.4	4008.2
22.5°	2814.2	2698.4	2534.2	2363.7	2228.7	2400.6	2903.3	3373.0	3791.8	4029.8	4149.4
25°	2699.7	2602.9	2464.2	2300.0	2156.2	2274.6	2872.8	3435.4	3917.8	4190.2	4311.1
27.5°	2587.7	2506.2	2380.2	2246.6	2115.5	2165.1	2853.7	3527.0	4068.0	4418.0	4522.4
30°	2478.2	2404.4	2289.8	2195.6	2093.8	2093.8	2837.1	3632.7	4266.5	4673.8	4778.2
32.5°	2367.5	2297.5	2204.6	2146.0	2081.1	2065.8	2791.3	3732.0	4471.5	4953.9	5060.8
35°	2264.4	2194.4	2123.1	2098.9	2074.7	2044.2	2678.0	3809.6	4671.3	5281.0	5372.6
37.5°	2167.6	2100.2	2046.7	2040.4	2042.9	1985.6	2499.8	3874.5	4920.8	5615.7	5664.1
40°	2083.6	2008.5	1966.5	1965.3	1978.0	1891.4	2274.6	3967.4	5205.9	5899.6	5879.2
42.5°	2008.5	1929.6	1878.7	1890.2	1882.5	1797.2	2054.4	4052.7	5454.1	6165.6	6124.9
45°	1934.7	1858.3	1787.1	1803.6	1794.7	1738.7	1867.2	4115.1	5729.0	6485.1	6490.2
47.5°	1863.4	1788.3	1717.1	1696.7	1695.4	1720.9	1723.4	4135.4	6177.1	6999.3	6883.5
50°	1797.2	1722.1	1648.3	1579.6	1606.3	1685.2	1616.5	4120.2	6847.9	7567.0	7243.7
52.5°	1728.5	1657.2	1575.8	1452.3	1522.3	1600.0	1521.0	4065.4	7257.7	8068.5	7875.0
55°	1649.6	1582.1	1471.4	1321.2	1406.5	1423.0	1423.0	3535.9	7432.1	8564.9	8684.6
57.5°	1543.9	1454.9	1279.2	1158.3	1234.6	1171.0	1318.7	2474.4	7144.4	8408.3	8872.9
60°	1424.3	1328.8	1143.0	1056.5	1079.4	967.4	1123.9	1551.6	5921.2	7154.6	7959.0
62.5°	1266.5	1178.6	1024.6	957.2	910.1	789.2	905.0	981.4	4059.1	5312.8	5861.4
65°	1160.8	1064.1	926.6	837.5	740.8	635.1	600.8	644.1	2182.9	2973.3	3343.7
67.5°	1036.1	940.6	810.8	698.8	621.1	544.8	485.0	469.7	748.4	990.3	1071.7
70°	917.7	826.1	717.9	613.5	535.9	460.8	402.2	360.2	346.2	343.7	338.6
72.5°	796.8	711.5	621.1	524.4	439.1	370.4	318.2	269.8	249.5	243.1	236.7
75°	653.0	585.5	495.1	390.8	322.0	258.4	217.7	185.8	168.0	161.7	154.0
77.5°	420.0	389.5	310.6	252.0	194.7	154.0	132.4	112.0	100.6	98.0	91.6
80°	224.0	208.7	171.8	145.1	115.8	94.2	82.7	71.3	64.9	62.4	59.8
82.5°	124.7	113.3	95.5	84.0	67.5	57.3	50.9	45.8	42.0	40.7	39.5
85°	56.0	48.4	38.2	35.6	31.8	29.3	28.0	25.5	24.2	22.9	21.6
87.5°	2.5	5.1	6.4	5.1	5.1	7.6	8.9	8.9	7.6	7.6	6.4
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: P639250

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

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2787.5	2787.5	2787.5	2787.5	2787.5	2787.5	2787.5	2787.5	2787.5	2787.5
2.5°	2974.6	3012.8	3016.6	3029.3	3012.8	3009.0	2982.3	2967.0	2953.0	2949.2
5°	3206.3	3282.6	3313.2	3334.8	3314.5	3304.3	3245.7	3184.6	3150.3	3133.7
7.5°	3444.3	3558.8	3618.7	3645.4	3647.9	3602.1	3501.6	3387.0	3329.7	3308.1
10°	3656.9	3798.1	3877.1	3928.0	3910.1	3854.1	3716.7	3561.4	3488.8	3469.7
12.5°	3814.7	3949.6	4010.7	4043.8	4042.5	4012.0	3882.1	3714.1	3631.4	3612.3
15°	3916.5	3996.7	4000.5	4008.2	4029.8	4070.5	4003.1	3847.8	3756.1	3729.4
17.5°	3996.7	3964.9	3905.1	3884.7	3933.1	4046.3	4087.1	3961.1	3861.8	3838.9
20°	4047.6	3887.2	3781.6	3742.1	3798.1	3982.7	4138.0	4062.9	3959.8	3930.5
22.5°	4087.1	3814.7	3644.1	3617.4	3675.9	3914.0	4190.2	4183.8	4070.5	4029.8
25°	4149.4	3766.3	3547.4	3528.3	3583.0	3880.9	4260.2	4348.0	4247.5	4188.9
27.5°	4247.5	3761.2	3497.8	3491.4	3566.5	3910.1	4360.7	4588.6	4462.6	4419.3
30°	4383.6	3809.6	3509.2	3521.9	3613.6	4015.8	4517.3	4863.5	4737.5	4670.0
32.5°	4579.7	3939.4	3683.6	3738.3	3805.8	4185.1	4746.4	5161.3	5065.9	4966.6
35°	4838.0	4295.8	4199.1	4432.0	4368.4	4555.5	5022.6	5522.8	5407.0	5320.4
37.5°	5183.0	5026.4	5115.5	5436.3	5282.3	5255.5	5359.9	5851.2	5787.6	5701.0
40°	5666.7	5698.5	5862.7	6284.0	6061.2	5889.4	5773.6	6098.2	6119.8	6012.9
42.5°	5987.4	6133.8	6529.6	7008.2	6701.5	6290.4	6119.8	6413.8	6415.1	6318.4
45°	6107.1	6490.2	7317.5	7868.7	7355.7	6519.5	6310.7	6842.8	6830.0	6719.3
47.5°	6063.8	6790.6	8136.0	8978.6	8195.8	6682.4	6284.0	7453.7	7556.8	7388.8
50°	5973.4	7092.2	9091.9	10338.0	9226.8	6855.5	6243.3	8130.9	8301.4	8171.6
52.5°	6065.1	7428.3	10222.1	11743.2	10520.0	7131.7	6518.2	9000.2	8969.7	8813.1
55°	6355.3	7825.4	11595.5	13508.6	11940.5	7598.8	7224.6	9828.8	9518.3	9331.2
57.5°	6341.3	8109.2	12799.6	14904.9	13176.4	7981.9	7470.3	9916.7	9289.1	9052.4
60°	5755.8	7979.4	13257.8	15788.2	13549.3	7770.7	6662.0	8857.7	7838.1	7589.9
62.5°	4295.8	7080.8	12369.4	14682.2	12494.1	6711.7	5009.9	6357.8	5632.3	5213.5
65°	2748.1	5539.4	10399.1	11894.6	10298.5	5133.3	2983.5	3408.7	2670.4	2550.8
67.5°	1169.7	3910.1	8083.8	7950.1	7704.5	3325.9	1151.9	959.7	715.3	702.6
70°	386.9	2660.2	4983.1	5302.6	4601.3	2291.1	380.6	322.0	320.8	309.3
72.5°	253.3	1428.1	2805.3	3123.5	2960.6	1318.7	230.4	215.1	220.2	215.1
75°	151.5	310.6	472.2	613.5	472.2	221.5	138.7	136.2	138.7	132.4
77.5°	89.1	86.6	84.0	84.0	82.7	76.4	70.0	67.5	68.7	70.0
80°	57.3	54.7	52.2	50.9	44.5	42.0	39.5	36.9	36.9	38.2
82.5°	36.9	34.4	31.8	28.0	22.9	19.1	17.8	15.3	15.3	16.5
85°	19.1	15.3	11.5	8.9	5.1	2.5	0.0	0.0	0.0	0.0
87.5°	3.8	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)