

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: P639364

Luminaire Tested: GWS-SA5B-760-U-SLR-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639364
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-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14015.6 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

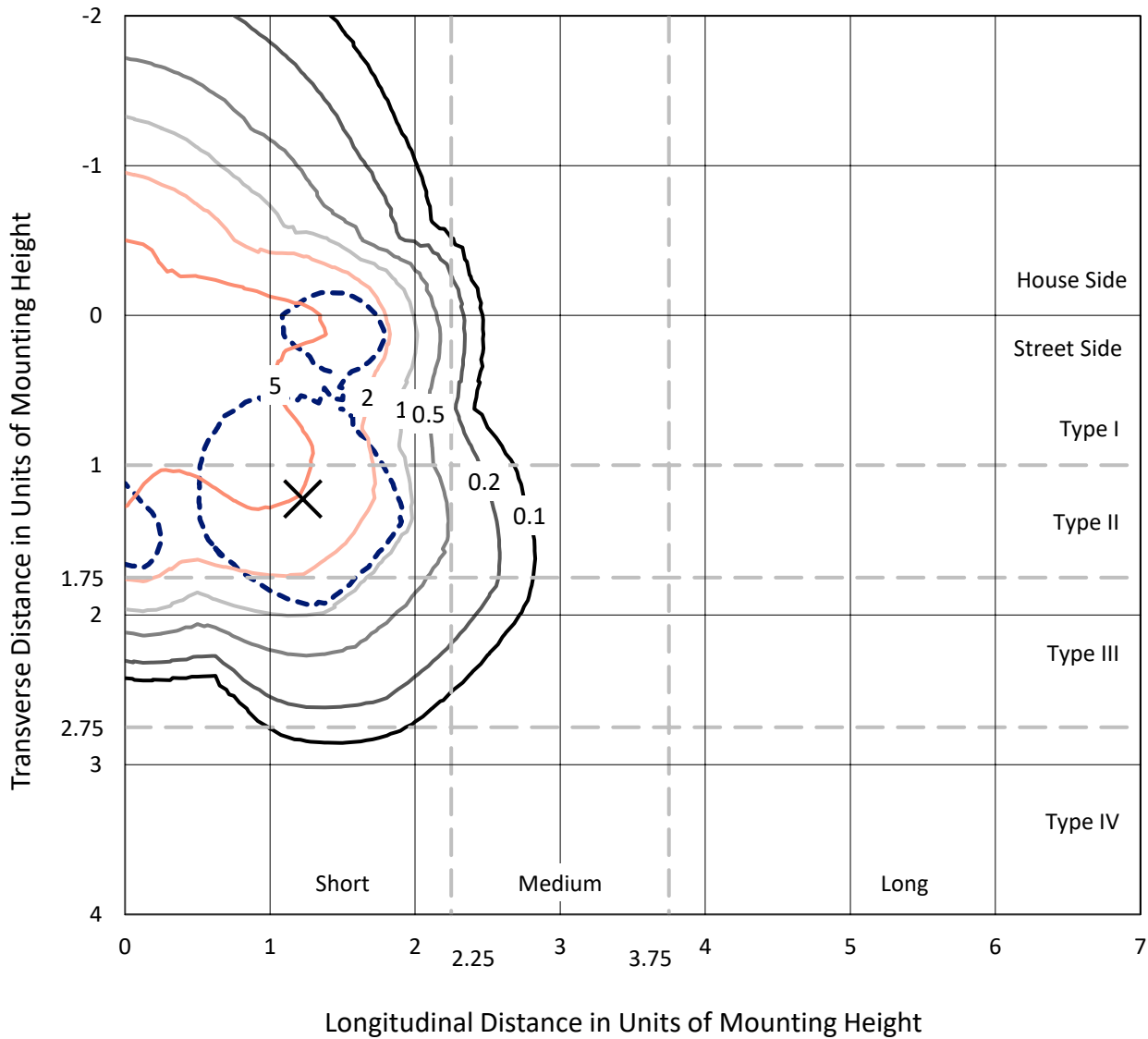
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

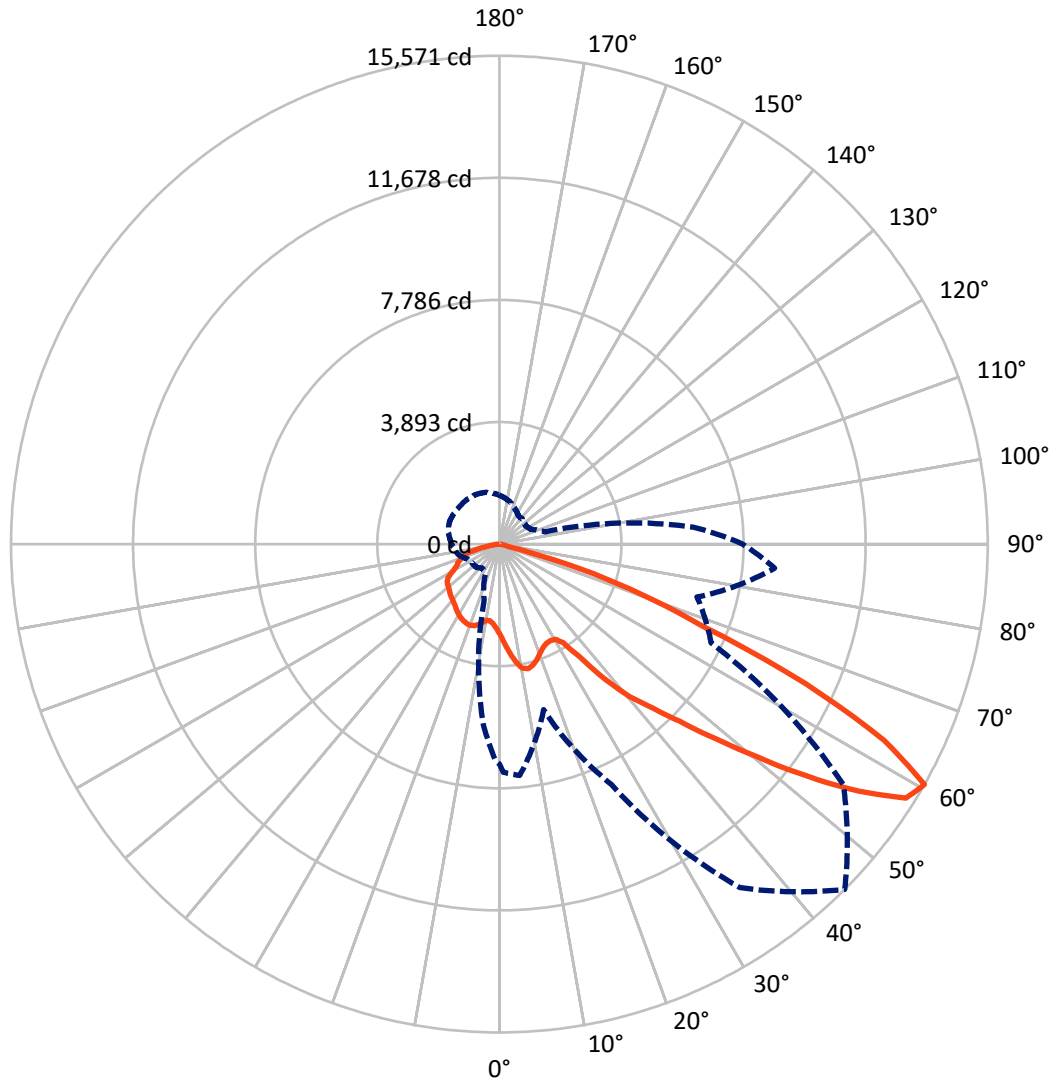
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.6 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	4913.0	0.0	4913.0
	% Fixture	35.1	0.0	35.1
Street Side	Lumens	9102.6	0.0	9102.6
	% Fixture	64.9	0.0	64.9
Total	Lumens	14015.6	0.0	14015.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.9	2.0
10°-20°	887.7	6.3
20°-30°	1442.0	10.3
30°-40°	2033.6	14.5
40°-50°	2810.4	20.1
50°-60°	3617.8	25.8
60°-70°	2292.3	16.4
70°-80°	588.2	4.2
80°-90°	62.9	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°	14015.6	100.0
0°-180°	14015.6	100.0

Coefficient of Utilization



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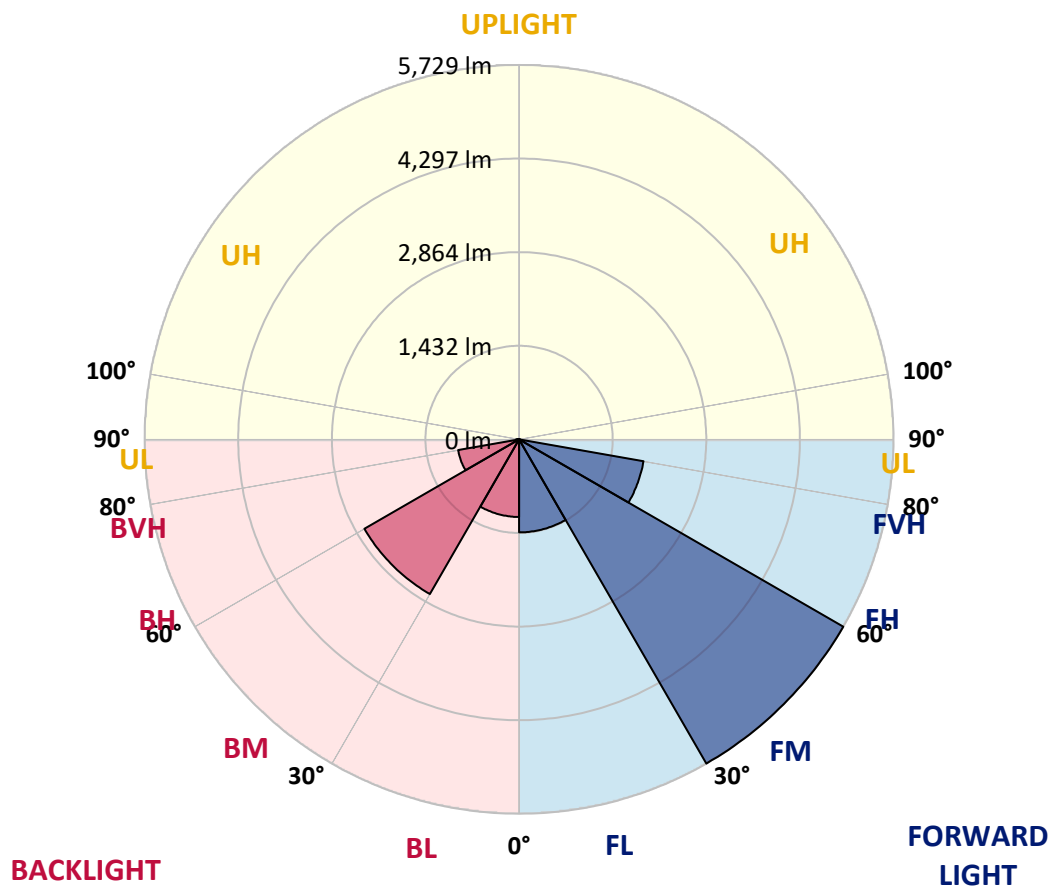
CATALOG NUMBER: GWS-SA5B-760-U-SLR-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1423.1	10.2			
FM (30°-60°)	5728.8	40.9			
FH (60°-80°)	1933.7	13.8			G2/5000
FVH (80°-90°)	17.1	0.1			G1/100
BL (0°-30°)	1187.4	8.5	B3/2500		
BM (30°-60°)	2732.9	19.5	B3/5000		
BH (60°-80°)	946.8	6.8	B2/1000		G2/1000
BVH (80°-90°)	45.8	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°	2879.2	2879.2	2879.2	2879.2	2879.2	2879.2	2879.2	2879.2	2879.2	2879.2	2879.2
2.5°	3011.5	3032.0	3044.9	3069.3	3112.9	3137.3	3164.3	3134.8	3142.5	3138.6	3091.1
5°	3190.0	3214.4	3247.8	3319.7	3400.6	3445.6	3487.9	3481.5	3441.7	3374.9	3327.4
7.5°	3356.9	3385.2	3443.0	3559.9	3679.3	3748.6	3800.0	3766.6	3733.2	3627.9	3508.5
10°	3487.9	3504.6	3583.0	3739.6	3878.3	3956.7	4019.6	4011.9	3965.7	3847.5	3687.0
12.5°	3611.2	3622.8	3707.5	3864.2	3988.8	4023.5	4074.8	4091.5	4076.1	3987.5	3829.5
15°	3743.5	3765.3	3843.7	3963.1	4019.6	3983.6	4001.6	4047.9	4091.5	4091.5	3946.4
17.5°	3866.8	3886.0	3965.7	4017.0	3963.1	3868.1	3873.2	3932.3	4036.3	4145.5	4053.0
20°	3975.9	3993.9	4072.3	4023.5	3852.7	3714.0	3710.1	3782.0	3950.3	4180.1	4167.3
22.5°	4095.4	4121.1	4186.5	4028.6	3749.9	3574.0	3572.7	3647.2	3874.5	4214.8	4298.3
25°	4264.9	4304.7	4338.1	4073.5	3694.7	3482.8	3499.5	3570.1	3850.1	4271.3	4492.2
27.5°	4516.6	4548.7	4546.1	4167.3	3692.1	3445.6	3480.2	3562.4	3893.7	4371.5	4696.4
30°	4788.8	4805.5	4778.6	4298.3	3751.2	3468.7	3520.0	3617.6	4004.2	4537.1	4996.9
32.5°	5090.6	5111.2	5059.8	4494.8	3888.6	3639.5	3752.5	3800.0	4159.6	4776.0	5315.4
35°	5437.4	5477.2	5370.6	4754.2	4293.1	4262.3	4426.7	4365.1	4489.6	5058.5	5655.7
37.5°	5802.1	5803.4	5650.6	5138.2	5086.8	5139.4	5468.2	5275.6	5189.5	5373.2	6002.4
40°	6111.6	6103.9	5868.9	5655.7	5777.7	5987.0	6383.8	6088.5	5862.5	5795.7	6290.1
42.5°	6421.1	6392.8	6155.3	5984.5	6254.1	6684.4	7132.5	6770.4	6293.9	6179.7	6573.9
45°	6816.6	6807.6	6521.3	6115.4	6684.4	7465.2	8059.7	7472.9	6549.5	6403.1	7046.5
47.5°	7454.9	7411.2	6878.3	6105.2	7087.6	8505.4	9256.6	8357.7	6728.0	6408.2	7809.3
50°	8079.0	8025.1	7304.6	6103.9	7503.7	9584.1	10669.3	9432.6	6910.4	6439.1	8585.0
52.5°	8709.6	8709.6	8004.5	6249.0	7940.3	10788.7	12301.5	10772.0	7221.2	6842.3	9539.2
55°	9084.6	9184.7	8791.8	6494.3	8451.4	12206.5	13915.8	12218.0	7701.5	7570.5	10420.1
57.5°	8608.1	8795.6	8739.1	6323.5	8753.2	13248.0	15284.8	13314.8	7939.0	7656.5	10287.9
60°	7014.4	7275.1	7404.8	5460.5	8455.3	13368.7	15571.1	13386.7	7448.5	6520.0	8812.3
62.5°	4663.0	4877.5	5075.2	3901.5	7320.0	12026.7	13771.9	12030.5	6220.7	4865.9	6105.2
65°	2287.2	2446.4	2659.6	2306.5	5718.6	10049.0	10737.3	9721.5	4499.9	2723.8	3114.2
67.5°	598.4	643.4	672.9	895.1	4096.7	7219.9	7002.8	7110.7	2890.8	890.0	814.2
70°	310.8	313.3	312.1	369.9	2768.8	4588.5	4826.1	4465.2	2017.5	372.4	321.1
72.5°	222.2	223.5	219.6	249.1	1336.9	2628.8	2723.8	2694.3	1056.9	220.9	219.6
75°	145.1	146.4	143.8	146.4	201.6	299.2	276.1	290.2	175.9	140.0	140.0
77.5°	86.0	87.3	86.0	88.6	86.0	86.0	79.6	79.6	75.8	75.8	77.1
80°	57.8	57.8	56.5	59.1	53.9	53.9	51.4	50.1	46.2	44.9	44.9
82.5°	34.7	36.0	34.7	34.7	32.1	32.1	29.5	28.3	24.4	24.4	23.1
85°	18.0	18.0	16.7	16.7	14.1	12.8	10.3	10.3	7.7	6.4	6.4
87.5°	2.6	2.6	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°	2879.2	2879.2	2879.2	2879.2	2879.2	2879.2	2879.2	2879.2	2879.2	2879.2	2879.2
2.5°	3078.3	3052.6	3014.1	2976.8	2942.1	2906.2	2865.1	2822.7	2786.8	2749.5	2730.2
5°	3264.5	3211.8	3111.7	3023.0	2943.4	2877.9	2807.3	2746.9	2690.4	2644.2	2621.1
7.5°	3432.7	3350.5	3199.0	3059.0	2951.1	2861.2	2763.6	2673.7	2598.0	2541.5	2519.6
10°	3588.1	3490.5	3291.4	3114.2	2988.4	2888.2	2768.8	2646.8	2546.6	2472.1	2454.1
12.5°	3714.0	3602.2	3364.6	3159.2	3010.2	2902.3	2797.0	2691.7	2592.8	2496.5	2481.1
15°	3825.7	3693.4	3419.9	3187.4	3002.5	2865.1	2776.5	2763.6	2763.6	2654.5	2623.7
17.5°	3922.0	3776.9	3464.8	3200.3	2953.7	2754.6	2700.7	2812.4	2938.3	2860.0	2790.6
20°	4032.4	3856.5	3502.1	3200.3	2863.8	2614.7	2609.5	2799.6	2985.8	2987.1	2913.9
22.5°	4144.2	3949.0	3545.7	3188.7	2740.5	2452.9	2547.9	2748.2	2913.9	2984.5	2934.4
25°	4325.2	4077.4	3615.1	3179.7	2596.7	2342.4	2492.7	2680.2	2820.1	2894.6	2862.5
27.5°	4555.1	4246.9	3720.4	3193.8	2454.1	2276.9	2433.6	2591.6	2718.7	2784.2	2761.1
30°	4812.0	4442.1	3833.4	3218.2	2351.4	2243.5	2363.0	2490.1	2603.1	2668.6	2658.3
32.5°	5139.4	4654.0	3931.0	3184.9	2293.6	2226.8	2288.5	2379.7	2488.8	2529.9	2538.9
35°	5531.1	4887.7	4005.5	3053.9	2241.0	2208.9	2207.6	2264.1	2341.1	2406.6	2413.0
37.5°	5892.0	5161.3	4087.7	2829.1	2145.9	2163.9	2112.5	2145.9	2221.7	2287.2	2312.9
40°	6249.0	5438.7	4202.0	2542.8	2021.4	2063.7	2003.4	2026.5	2086.9	2172.9	2214.0
42.5°	6595.7	5689.1	4322.7	2249.9	1896.8	1923.8	1878.8	1901.9	1964.9	2072.7	2119.0
45°	6973.3	6028.1	4416.4	1973.8	1788.9	1777.4	1741.4	1774.8	1869.8	1988.0	2043.2
47.5°	7687.3	6562.4	4478.1	1790.2	1731.1	1647.7	1606.6	1678.5	1786.3	1905.8	1972.6
50°	8559.3	7335.4	4460.1	1673.3	1681.0	1514.1	1500.0	1595.0	1710.6	1835.1	1908.3
52.5°	9250.2	8094.4	4255.9	1561.6	1583.4	1429.3	1388.2	1526.9	1637.4	1764.5	1840.3
55°	9778.0	8350.0	3629.2	1429.3	1424.2	1367.7	1281.6	1456.3	1564.2	1682.3	1764.5
57.5°	9347.8	7781.1	2690.4	1247.0	1216.2	1245.7	1162.2	1336.9	1474.3	1591.1	1664.3
60°	7758.0	6204.1	1498.7	1104.4	1017.1	1089.0	1076.2	1211.0	1376.7	1500.0	1562.9
62.5°	5266.6	4131.3	888.7	873.3	824.5	927.2	995.3	1083.9	1247.0	1347.1	1406.2
65°	2624.9	2007.2	590.7	653.7	660.1	762.8	891.2	988.8	1125.0	1227.7	1286.8
67.5°	761.5	624.1	449.5	499.6	568.9	651.1	753.8	869.4	1001.7	1123.7	1193.0
70°	328.8	332.6	357.0	416.1	484.1	568.9	671.6	784.7	896.4	990.1	1042.8
72.5°	232.4	241.4	268.4	328.8	393.0	473.9	576.6	685.8	766.7	861.7	916.9
75°	149.0	155.4	177.2	223.5	271.0	349.3	446.9	547.1	630.6	698.6	751.3
77.5°	82.2	83.5	101.5	128.4	160.5	210.6	282.5	360.9	422.5	461.0	508.6
80°	47.5	47.5	56.5	73.2	92.5	123.3	163.1	201.6	238.9	263.3	286.4
82.5°	25.7	25.7	29.5	39.8	50.1	68.1	91.2	110.4	133.6	146.4	161.8
85°	7.7	7.7	10.3	14.1	18.0	25.7	36.0	46.2	56.5	65.5	74.5
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°	2879.2	2879.2	2879.2	2879.2	2879.2	2879.2	2879.2	2879.2	2879.2	2879.2	2879.2
2.5°	2726.4	2708.4	2698.1	2685.3	2689.2	2677.6	2671.2	2675.0	2651.9	2675.0	2698.1
5°	2612.1	2586.4	2565.9	2549.2	2541.5	2526.1	2517.1	2517.1	2502.9	2526.1	2554.3
7.5°	2511.9	2491.4	2481.1	2470.8	2459.3	2445.1	2429.7	2424.6	2415.6	2440.0	2464.4
10°	2445.1	2447.7	2454.1	2468.3	2465.7	2456.7	2433.6	2420.7	2420.7	2449.0	2486.2
12.5°	2476.0	2502.9	2518.3	2544.0	2549.2	2541.5	2518.3	2508.1	2533.8	2576.1	2637.8
15°	2595.4	2613.4	2626.2	2646.8	2645.5	2639.1	2621.1	2628.8	2713.6	2795.7	2851.0
17.5°	2725.1	2704.6	2702.0	2714.8	2718.7	2711.0	2700.7	2735.4	2875.4	2952.4	2980.7
20°	2818.9	2748.2	2732.8	2738.0	2748.2	2744.4	2744.4	2800.9	2946.0	2982.0	2946.0
22.5°	2847.1	2746.9	2723.8	2725.1	2739.2	2740.5	2746.9	2806.0	2890.8	2892.1	2836.8
25°	2802.2	2705.8	2689.2	2691.7	2708.4	2707.1	2709.7	2743.1	2780.3	2764.9	2723.8
27.5°	2717.4	2633.9	2628.8	2642.9	2664.8	2653.2	2645.5	2654.5	2672.5	2653.2	2617.2
30°	2621.1	2550.5	2553.0	2580.0	2603.1	2583.8	2564.6	2569.7	2571.0	2550.5	2509.4
32.5°	2519.6	2467.0	2476.0	2504.2	2531.2	2510.6	2490.1	2487.5	2463.1	2438.7	2398.9
35°	2418.2	2397.6	2409.2	2432.3	2455.4	2438.7	2425.9	2418.2	2365.5	2329.6	2296.2
37.5°	2325.7	2341.1	2361.7	2375.8	2383.5	2382.2	2374.5	2356.5	2287.2	2244.8	2201.1
40°	2243.5	2291.0	2312.9	2319.3	2330.9	2328.3	2327.0	2301.3	2210.1	2165.2	2115.1
42.5°	2169.0	2235.8	2273.1	2279.5	2285.9	2287.2	2283.3	2246.1	2142.1	2089.4	2041.9
45°	2097.1	2184.5	2232.0	2225.5	2234.5	2234.5	2238.4	2189.6	2075.3	2021.4	1971.3
47.5°	2034.2	2136.9	2180.6	2172.9	2178.0	2181.9	2185.7	2129.2	2002.1	1950.7	1899.4
50°	1976.4	2085.6	2122.8	2125.4	2125.4	2134.4	2133.1	2077.9	1940.5	1885.2	1833.9
52.5°	1914.8	2032.9	2072.7	2089.4	2094.6	2098.4	2080.4	2016.2	1877.5	1810.7	1763.2
55°	1842.9	1979.0	2014.9	2036.8	2047.0	2044.5	2020.1	1954.6	1813.3	1746.5	1692.6
57.5°	1733.7	1863.4	1914.8	1925.0	1941.7	1931.5	1903.2	1848.0	1710.6	1643.8	1588.6
60°	1614.3	1708.0	1749.1	1758.1	1745.3	1749.1	1745.3	1692.6	1573.2	1520.5	1464.0
62.5°	1457.6	1541.1	1584.7	1596.3	1574.5	1588.6	1583.4	1517.9	1398.5	1343.3	1293.2
65°	1339.4	1430.6	1482.0	1488.4	1482.0	1488.4	1470.4	1390.8	1277.8	1221.3	1169.9
67.5°	1247.0	1340.7	1394.7	1412.6	1406.2	1404.9	1376.7	1284.2	1167.4	1105.7	1040.2
70°	1087.7	1169.9	1239.3	1282.9	1282.9	1258.5	1204.6	1118.6	1024.8	972.2	920.8
72.5°	963.2	1067.2	1135.2	1180.2	1189.2	1175.1	1099.3	1008.1	900.2	847.6	793.6
75°	793.6	895.1	968.3	1027.4	1038.9	1023.5	936.2	846.3	746.1	694.8	640.8
77.5°	530.4	590.7	649.8	703.8	692.2	702.5	643.4	575.3	513.7	475.2	450.8
80°	299.2	339.0	357.0	386.5	386.5	386.5	348.0	315.9	281.2	259.4	235.0
82.5°	169.5	195.2	202.9	227.3	233.7	235.0	209.3	188.8	166.9	155.4	138.7
85°	78.3	92.5	93.7	107.9	113.0	123.3	111.7	97.6	84.8	79.6	69.3
87.5°	2.6	7.7	10.3	19.3	25.7	29.5	32.1	32.1	27.0	24.4	20.5
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: P639364

CATALOG NUMBER: GWS-SA5B-760-U-SLR-W-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2879.2	2879.2	2879.2	2879.2	2879.2	2879.2	2879.2	2879.2	2879.2	2879.2
2.5°	2726.4	2757.2	2793.2	2818.9	2865.1	2903.6	2943.4	2987.1	3019.2	3011.5
5°	2589.0	2640.4	2705.8	2766.2	2852.2	2939.6	3035.9	3134.8	3192.6	3190.0
7.5°	2511.9	2585.1	2664.8	2745.7	2847.1	2973.0	3120.6	3274.8	3353.1	3356.9
10°	2553.0	2631.4	2685.3	2753.4	2860.0	3017.9	3195.1	3380.1	3470.0	3487.9
12.5°	2682.7	2676.3	2672.5	2721.3	2849.7	3050.0	3267.0	3487.9	3589.4	3611.2
15°	2806.0	2673.7	2594.1	2627.5	2803.4	3070.6	3337.7	3606.1	3720.4	3743.5
17.5°	2829.1	2628.8	2481.1	2504.2	2730.2	3077.0	3405.7	3721.7	3844.9	3866.8
20°	2764.9	2571.0	2398.9	2366.8	2637.8	3060.3	3448.1	3818.0	3952.8	3975.9
22.5°	2684.0	2519.6	2337.3	2253.8	2524.8	3043.6	3495.6	3919.4	4074.8	4095.4
25°	2599.3	2454.1	2279.5	2152.3	2396.3	3033.3	3575.3	4053.0	4240.5	4264.9
27.5°	2509.4	2374.5	2229.4	2103.5	2278.2	3046.2	3688.3	4268.7	4481.9	4516.6
30°	2413.0	2294.9	2197.3	2086.9	2197.3	3057.7	3812.8	4489.6	4740.0	4788.8
32.5°	2312.9	2221.7	2163.9	2094.6	2147.2	3030.8	3922.0	4737.5	5048.3	5090.6
35°	2212.7	2147.2	2121.5	2108.7	2080.4	2931.9	4010.6	4987.9	5400.1	5437.4
37.5°	2119.0	2070.2	2062.5	2076.6	1977.7	2770.1	4113.3	5306.4	5745.6	5802.1
40°	2031.6	1986.7	1985.4	1982.8	1864.7	2549.2	4252.0	5630.0	6085.9	6111.6
42.5°	1950.7	1894.2	1904.5	1873.7	1772.2	2310.3	4383.0	5906.1	6403.1	6421.1
45°	1878.8	1804.3	1815.9	1777.4	1728.6	2059.9	4498.6	6232.3	6805.1	6816.6
47.5°	1809.5	1729.8	1697.7	1695.2	1720.9	1828.7	4611.6	6860.3	7434.3	7454.9
50°	1745.3	1659.2	1568.0	1624.5	1673.3	1655.4	4752.9	7533.2	8084.1	8079.0
52.5°	1683.6	1570.6	1440.9	1550.1	1550.1	1526.9	4713.1	7941.6	8621.0	8709.6
55°	1613.0	1428.0	1308.6	1425.5	1369.0	1411.4	4008.0	8075.2	8958.7	9084.6
57.5°	1473.0	1252.1	1148.1	1211.0	1126.3	1308.6	2879.2	7412.5	8384.7	8608.1
60°	1338.2	1122.4	1054.3	1042.8	932.3	1067.2	1866.0	5803.4	6901.4	7014.4
62.5°	1180.2	1010.7	952.9	864.3	750.0	777.0	1130.1	3819.3	4637.3	4663.0
65°	1060.8	915.6	805.2	699.9	613.9	563.8	667.8	1841.6	2318.0	2287.2
67.5°	910.5	784.7	679.4	603.6	533.0	470.0	444.3	547.1	619.0	598.4
70°	810.3	689.6	588.2	516.3	450.8	387.8	342.9	322.3	315.9	310.8
72.5°	698.6	593.3	488.0	418.7	357.0	299.2	258.1	233.7	227.3	222.2
75°	557.4	458.5	362.1	296.7	242.7	201.6	174.7	154.1	150.3	145.1
77.5°	368.6	294.1	215.7	175.9	143.8	122.0	104.0	91.2	88.6	86.0
80°	202.9	169.5	132.3	106.6	86.0	74.5	68.1	60.4	59.1	57.8
82.5°	120.7	101.5	75.8	60.4	50.1	44.9	41.1	37.2	36.0	34.7
85°	60.4	47.5	33.4	28.3	25.7	23.1	23.1	19.3	18.0	18.0
87.5°	15.4	12.8	7.7	6.4	6.4	6.4	5.1	3.9	3.9	2.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)