

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: P633860

Luminaire Tested: GWS-SA2F-750-U-SLL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633860
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-SA2F-750-U-SLL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12916.7 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

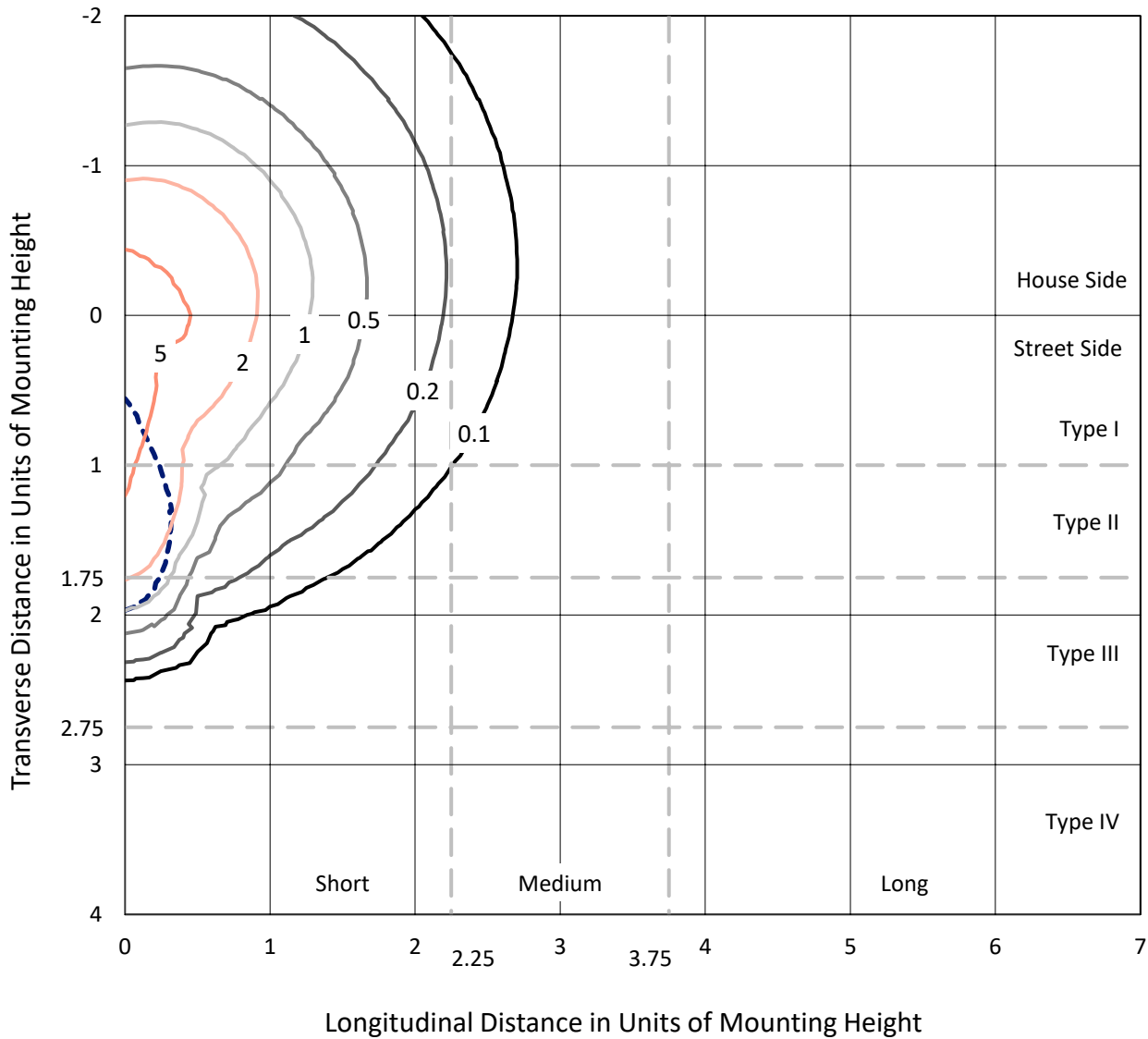
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

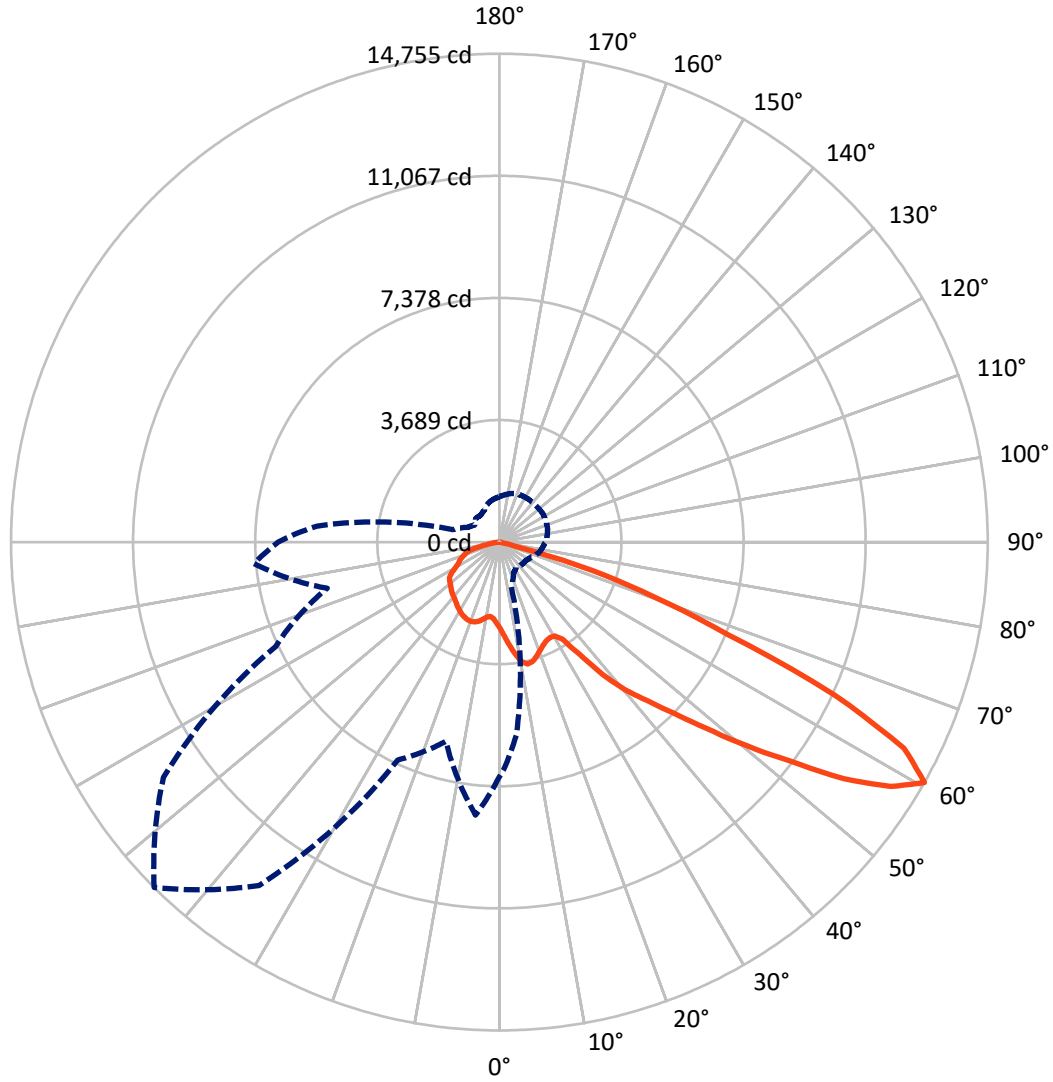
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.9 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	4418.7	0.0	4418.7
	% Fixture	34.2	0.0	34.2
Street Side	Lumens	8498.0	0.0	8498.0
	% Fixture	65.8	0.0	65.8
Total	Lumens	12916.7	0.0	12916.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.5	2.0
10°-20°	816.4	6.3
20°-30°	1329.6	10.3
30°-40°	1867.7	14.5
40°-50°	2555.8	19.8
50°-60°	3279.0	25.4
60°-70°	2207.9	17.1
70°-80°	552.0	4.3
80°-90°	53.8	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°	12916.7	100.0
0°-180°	12916.7	100.0

Coefficient of Utilization



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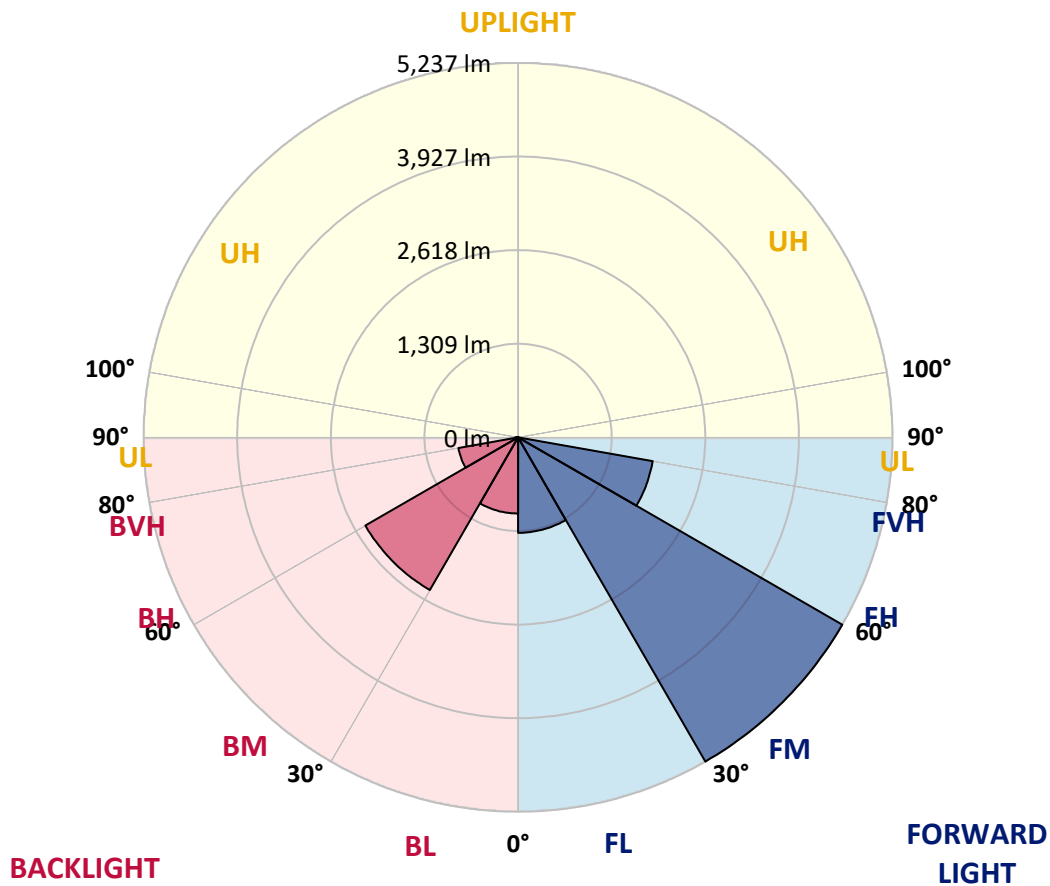
CATALOG NUMBER: GWS-SA2F-750-U-SLL-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1335.3	10.3			
FM (30°-60°)	5236.5	40.5			
FH (60°-80°)	1912.2	14.8			G2/5000
FVH (80°-90°)	14.0	0.1			G1/100
BL (0°-30°)	1065.2	8.2	B3/2500		
BM (30°-60°)	2466.0	19.1	B2/2500		
BH (60°-80°)	847.7	6.6	B2/1000		G2/1000
BVH (80°-90°)	39.8	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°	2605.2	2605.2	2605.2	2605.2	2605.2	2605.2	2605.2	2605.2	2605.2	2605.2	2605.2
2.5°	2756.2	2750.3	2744.3	2697.9	2686.1	2652.7	2629.0	2599.2	2556.4	2532.6	2512.4
5°	2928.7	2919.2	2887.1	2791.9	2730.1	2662.3	2606.4	2544.5	2479.1	2436.2	2402.9
7.5°	3091.7	3089.3	3034.6	2877.6	2777.6	2680.1	2604.0	2513.6	2419.6	2355.4	2312.5
10°	3242.8	3224.9	3159.5	2954.9	2824.0	2712.2	2630.1	2530.2	2420.8	2333.9	2276.8
12.5°	3376.0	3353.4	3263.0	3026.3	2864.5	2726.5	2637.3	2555.2	2482.6	2410.1	2344.6
15°	3485.4	3458.1	3366.5	3092.9	2900.2	2718.2	2593.3	2529.0	2554.0	2586.1	2513.6
17.5°	3587.7	3559.2	3447.4	3141.7	2910.9	2667.0	2485.0	2457.7	2583.7	2730.1	2696.8
20°	3673.4	3641.3	3511.6	3165.4	2891.8	2569.5	2344.6	2392.2	2558.8	2733.6	2787.2
22.5°	3766.2	3740.0	3584.2	3199.9	2868.1	2435.1	2226.9	2343.5	2515.9	2669.4	2750.3
25°	3914.9	3882.8	3697.2	3260.6	2856.2	2309.0	2142.4	2295.9	2456.5	2595.6	2658.7
27.5°	4130.2	4070.7	3851.8	3366.5	2869.2	2190.0	2088.9	2237.6	2387.5	2506.4	2557.6
30°	4364.5	4293.2	4023.1	3475.9	2888.3	2117.4	2060.3	2171.0	2281.6	2400.6	2456.5
32.5°	4641.7	4578.7	4206.3	3558.0	2847.8	2084.1	2038.9	2098.4	2186.4	2281.6	2328.0
35°	4972.4	4859.4	4406.2	3624.6	2717.0	2035.4	2019.9	2018.7	2065.1	2157.9	2210.2
37.5°	5328.1	5206.8	4652.4	3696.0	2513.6	1958.0	1974.7	1924.7	1967.6	2041.3	2100.8
40°	5619.5	5492.3	4901.0	3793.5	2259.0	1836.7	1874.8	1821.2	1847.4	1923.5	1990.2
42.5°	5905.0	5769.4	5133.0	3904.2	2012.8	1717.7	1736.8	1716.6	1724.9	1804.6	1897.4
45°	6279.7	6127.5	5418.5	3982.7	1791.5	1623.8	1605.9	1571.4	1615.4	1718.9	1817.7
47.5°	6905.5	6723.5	5886.0	4033.8	1630.9	1570.2	1488.2	1467.9	1522.7	1638.0	1740.3
50°	7637.0	7480.0	6633.0	4031.5	1510.8	1525.0	1374.0	1356.1	1446.5	1563.1	1671.3
52.5°	8236.6	8077.2	7271.8	3912.5	1412.0	1428.7	1307.3	1257.4	1381.1	1489.3	1597.6
55°	8720.7	8541.1	7565.7	3415.3	1287.1	1275.2	1234.8	1143.2	1299.0	1415.6	1516.7
57.5°	8460.2	8246.1	7210.0	2596.8	1158.6	1083.7	1109.9	1042.1	1187.2	1333.5	1431.1
60°	7093.4	6900.7	5857.4	1382.3	1019.5	905.3	960.0	970.7	1064.7	1234.8	1334.7
62.5°	4872.5	4732.1	3969.6	838.6	804.2	726.8	812.5	889.8	960.0	1103.9	1190.8
65°	2383.9	2342.3	1985.4	537.7	562.7	587.6	673.3	767.3	870.8	996.9	1088.5
67.5°	656.6	661.4	601.9	419.9	443.7	512.7	580.5	655.5	758.9	875.5	968.3
70°	289.1	293.8	303.3	323.6	368.8	431.8	502.0	579.3	674.5	772.0	861.2
72.5°	201.0	205.8	220.1	246.2	286.7	346.2	412.8	486.5	585.3	667.3	741.1
75°	123.7	127.3	140.4	163.0	190.3	235.5	301.0	368.8	455.6	530.5	596.0
77.5°	65.4	63.0	71.4	86.8	110.6	134.4	178.4	221.3	283.1	343.8	398.5
80°	35.7	34.5	39.3	47.6	54.7	73.8	103.5	132.0	167.7	202.2	232.0
82.5°	15.5	14.3	15.5	20.2	25.0	35.7	52.3	72.6	92.8	116.6	135.6
85°	0.0	0.0	0.0	1.2	5.9	9.5	17.8	26.2	38.1	52.3	64.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	10.7
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2605.2	2605.2	2605.2	2605.2	2605.2	2605.2	2605.2	2605.2	2605.2	2605.2	2605.2
2.5°	2500.5	2470.7	2468.4	2444.6	2446.9	2448.1	2424.3	2414.8	2423.2	2432.7	2427.9
5°	2391.0	2360.1	2347.0	2324.4	2322.0	2311.3	2301.8	2289.9	2298.3	2306.6	2311.3
7.5°	2295.9	2275.6	2267.3	2261.4	2263.8	2259.0	2240.0	2229.3	2228.1	2231.6	2236.4
10°	2264.9	2248.3	2259.0	2275.6	2287.5	2295.9	2275.6	2257.8	2241.2	2234.0	2234.0
12.5°	2331.6	2310.1	2331.6	2349.4	2373.2	2379.1	2356.5	2337.5	2331.6	2338.7	2353.0
15°	2479.1	2429.1	2427.9	2438.6	2457.7	2467.2	2445.8	2436.2	2436.2	2481.4	2517.1
17.5°	2626.6	2544.5	2510.0	2504.0	2515.9	2519.5	2501.7	2493.3	2514.8	2602.8	2669.4
20°	2730.1	2630.1	2555.2	2540.9	2544.5	2545.7	2531.4	2525.5	2556.4	2663.5	2719.4
22.5°	2719.4	2645.6	2554.0	2536.2	2542.1	2539.7	2526.6	2524.3	2549.3	2642.0	2668.2
25°	2645.6	2588.5	2511.2	2499.3	2508.8	2507.6	2494.5	2488.6	2499.3	2561.1	2563.5
27.5°	2561.1	2511.2	2444.6	2441.0	2456.5	2464.8	2442.2	2424.3	2420.8	2462.4	2452.9
30°	2460.0	2423.2	2369.6	2372.0	2400.6	2405.3	2378.0	2351.8	2344.6	2367.2	2354.2
32.5°	2339.9	2328.0	2299.4	2305.4	2332.7	2342.3	2313.7	2286.4	2278.0	2285.2	2257.8
35°	2237.6	2232.8	2235.2	2245.9	2269.7	2276.8	2253.0	2231.6	2219.7	2194.8	2159.1
37.5°	2131.7	2144.8	2179.3	2199.5	2212.6	2210.2	2197.1	2181.7	2162.6	2116.2	2072.2
40°	2033.0	2066.3	2128.1	2150.7	2155.5	2156.7	2147.2	2134.1	2110.3	2048.4	1998.5
42.5°	1956.8	1993.7	2075.8	2110.3	2112.7	2115.1	2105.5	2094.8	2061.5	1979.4	1930.7
45°	1877.1	1925.9	2022.3	2063.9	2061.5	2060.3	2052.0	2047.3	2008.0	1912.8	1859.3
47.5°	1809.3	1866.4	1969.9	2005.6	2004.4	2003.2	1997.3	1997.3	1958.0	1854.5	1793.9
50°	1742.7	1808.1	1916.4	1946.1	1948.5	1946.1	1943.8	1947.3	1900.9	1790.3	1730.8
52.5°	1670.2	1743.9	1856.9	1884.3	1898.6	1904.5	1904.5	1896.2	1841.5	1726.1	1660.6
55°	1590.5	1660.6	1791.5	1828.4	1840.3	1851.0	1851.0	1834.3	1783.2	1666.6	1596.4
57.5°	1491.7	1553.6	1657.1	1693.9	1722.5	1729.6	1729.6	1702.3	1660.6	1548.8	1491.7
60°	1384.7	1438.2	1508.4	1547.6	1569.0	1554.8	1565.5	1558.3	1525.0	1421.5	1374.0
62.5°	1241.9	1296.6	1374.0	1414.4	1423.9	1409.6	1423.9	1422.7	1377.5	1284.7	1227.6
65°	1139.6	1193.1	1269.3	1321.6	1337.1	1333.5	1343.0	1328.8	1272.8	1184.8	1130.1
67.5°	1018.3	1075.4	1163.4	1221.7	1253.8	1257.4	1270.5	1240.7	1183.6	1087.3	1018.3
70°	902.9	951.7	1019.5	1074.2	1119.4	1142.0	1144.4	1101.5	1030.2	950.5	900.5
72.5°	781.5	831.5	913.6	973.1	1030.2	1056.3	1056.3	1004.0	926.7	838.6	785.1
75°	634.0	680.4	755.4	819.6	885.0	918.3	917.2	872.0	786.3	703.0	647.1
77.5°	429.4	463.9	511.5	560.3	569.8	596.0	609.1	552.0	504.4	459.2	409.2
80°	249.8	271.2	297.4	324.8	330.7	339.0	317.6	296.2	271.2	241.5	218.9
82.5°	146.3	160.6	173.7	195.1	198.7	201.0	182.0	172.5	152.3	134.4	120.1
85°	71.4	76.1	88.0	98.7	94.0	91.6	83.3	73.8	65.4	58.3	51.2
87.5°	14.3	14.3	21.4	20.2	16.7	14.3	8.3	10.7	2.4	2.4	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°	2605.2	2605.2	2605.2	2605.2	2605.2	2605.2	2605.2	2605.2	2605.2	2605.2	2605.2
2.5°	2443.4	2463.6	2488.6	2521.9	2560.0	2600.4	2639.7	2669.4	2699.1	2743.2	2736.0
5°	2318.5	2353.0	2392.2	2443.4	2505.2	2575.4	2653.9	2732.4	2816.9	2888.3	2919.2
7.5°	2245.9	2284.0	2330.4	2397.0	2476.7	2562.3	2673.0	2800.3	2937.1	3031.0	3089.3
10°	2245.9	2294.7	2355.4	2419.6	2489.8	2577.8	2714.6	2874.0	3050.1	3173.8	3241.6
12.5°	2375.6	2424.3	2437.4	2435.1	2474.3	2571.9	2747.9	2951.3	3161.9	3292.7	3376.0
15°	2577.8	2594.5	2495.7	2405.3	2411.3	2529.0	2763.4	3013.2	3258.2	3415.3	3505.7
17.5°	2713.4	2669.4	2493.3	2335.1	2301.8	2456.5	2763.4	3072.7	3360.5	3537.8	3622.2
20°	2724.1	2614.7	2432.7	2267.3	2181.7	2360.1	2744.3	3117.9	3459.3	3655.6	3746.0
22.5°	2630.1	2521.9	2368.4	2209.0	2082.9	2243.5	2713.4	3152.4	3543.7	3766.2	3878.0
25°	2523.1	2432.7	2303.0	2149.6	2015.1	2125.8	2684.9	3210.7	3661.5	3916.1	4029.1
27.5°	2418.4	2342.3	2224.5	2099.6	1977.1	2023.5	2667.0	3296.3	3801.9	4129.0	4226.5
30°	2316.1	2247.1	2140.0	2052.0	1956.8	1956.8	2651.6	3395.0	3987.4	4368.1	4465.7
32.5°	2212.6	2147.2	2060.3	2005.6	1944.9	1930.7	2608.7	3487.8	4179.0	4629.8	4729.7
35°	2116.2	2050.8	1984.2	1961.6	1939.0	1910.5	2502.9	3560.4	4365.7	4935.5	5021.2
37.5°	2025.8	1962.8	1912.8	1906.9	1909.3	1855.7	2336.3	3621.1	4598.9	5248.4	5293.6
40°	1947.3	1877.1	1837.9	1836.7	1848.6	1767.7	2125.8	3707.9	4865.3	5513.7	5494.6
42.5°	1877.1	1803.4	1755.8	1766.5	1759.4	1679.7	1920.0	3787.6	5097.3	5762.3	5724.2
45°	1808.1	1736.8	1670.2	1685.6	1677.3	1625.0	1745.1	3845.9	5354.3	6060.9	6065.6
47.5°	1741.5	1671.3	1604.7	1585.7	1584.5	1608.3	1610.7	3864.9	5773.0	6541.5	6433.2
50°	1679.7	1609.5	1540.5	1476.3	1501.2	1575.0	1510.8	3850.6	6399.9	7072.0	6769.9
52.5°	1615.4	1548.8	1472.7	1357.3	1422.7	1495.3	1421.5	3799.5	6782.9	7540.7	7359.9
55°	1541.7	1478.6	1375.1	1234.8	1314.5	1329.9	1329.9	3304.6	6945.9	8004.6	8116.4
57.5°	1442.9	1359.7	1195.5	1082.5	1153.9	1094.4	1232.4	2312.5	6677.1	7858.3	8292.5
60°	1331.1	1241.9	1068.2	987.3	1008.8	904.1	1050.4	1450.1	5533.9	6686.6	7438.4
62.5°	1183.6	1101.5	957.6	894.6	850.5	737.5	845.8	917.2	3793.5	4965.3	5478.0
65°	1084.9	994.5	866.0	782.7	692.3	593.6	561.5	601.9	2040.1	2778.8	3125.0
67.5°	968.3	879.1	757.8	653.1	580.5	509.1	453.2	439.0	699.5	925.5	1001.6
70°	857.7	772.0	670.9	573.4	500.8	430.6	375.9	336.6	323.6	321.2	316.4
72.5°	744.7	665.0	580.5	490.1	410.4	346.2	297.4	252.2	233.2	227.2	221.3
75°	610.3	547.2	462.7	365.2	301.0	241.5	203.4	173.7	157.0	151.1	143.9
77.5°	392.6	364.0	290.3	235.5	182.0	143.9	123.7	104.7	94.0	91.6	85.6
80°	209.4	195.1	160.6	135.6	108.3	88.0	77.3	66.6	60.7	58.3	55.9
82.5°	116.6	105.9	89.2	78.5	63.0	53.5	47.6	42.8	39.3	38.1	36.9
85°	52.3	45.2	35.7	33.3	29.7	27.4	26.2	23.8	22.6	21.4	20.2
87.5°	2.4	4.8	5.9	4.8	4.8	7.1	8.3	8.3	7.1	7.1	5.9
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: P633860

CATALOG NUMBER: GWS-SA2F-750-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2605.2	2605.2	2605.2	2605.2	2605.2	2605.2	2605.2	2605.2	2605.2	2605.2
2.5°	2780.0	2815.7	2819.3	2831.2	2815.7	2812.1	2787.2	2772.9	2759.8	2756.2
5°	2996.5	3067.9	3096.5	3116.7	3097.6	3088.1	3033.4	2976.3	2944.2	2928.7
7.5°	3219.0	3326.0	3382.0	3406.9	3409.3	3366.5	3272.5	3165.4	3111.9	3091.7
10°	3417.6	3549.7	3623.4	3671.0	3654.4	3602.0	3473.5	3328.4	3260.6	3242.8
12.5°	3565.1	3691.2	3748.3	3779.3	3778.1	3749.5	3628.2	3471.2	3393.8	3376.0
15°	3660.3	3735.3	3738.8	3746.0	3766.2	3804.2	3741.2	3596.1	3510.4	3485.4
17.5°	3735.3	3705.5	3649.6	3630.6	3675.8	3781.6	3819.7	3701.9	3609.2	3587.7
20°	3782.8	3633.0	3534.2	3497.3	3549.7	3722.2	3867.3	3797.1	3700.8	3673.4
22.5°	3819.7	3565.1	3405.7	3380.8	3435.5	3657.9	3916.1	3910.1	3804.2	3766.2
25°	3878.0	3519.9	3315.3	3297.5	3348.6	3627.0	3981.5	4063.6	3969.6	3914.9
27.5°	3969.6	3515.2	3268.9	3263.0	3333.2	3654.4	4075.5	4288.4	4170.6	4130.2
30°	4096.9	3560.4	3279.6	3291.5	3377.2	3753.1	4221.8	4545.4	4427.6	4364.5
32.5°	4280.1	3681.7	3442.6	3493.8	3556.8	3911.3	4435.9	4823.7	4734.5	4641.7
35°	4521.6	4014.8	3924.4	4142.1	4082.6	4257.5	4694.0	5161.5	5053.3	4972.4
37.5°	4843.9	4697.6	4780.9	5080.7	4936.7	4911.7	5009.3	5468.5	5409.0	5328.1
40°	5296.0	5325.7	5479.2	5872.9	5664.7	5504.1	5395.9	5699.2	5719.5	5619.5
42.5°	5595.7	5732.5	6102.5	6549.8	6263.1	5878.9	5719.5	5994.2	5995.4	5905.0
45°	5707.6	6065.6	6838.8	7353.9	6874.5	6093.0	5897.9	6395.1	6383.2	6279.7
47.5°	5667.1	6346.4	7603.7	8391.2	7659.6	6245.2	5872.9	6966.1	7062.5	6905.5
50°	5582.7	6628.3	8497.1	9661.7	8623.2	6407.0	5834.8	7599.0	7758.4	7637.0
52.5°	5668.3	6942.3	9553.4	10975.0	9831.8	6665.2	6091.8	8411.5	8382.9	8236.6
55°	5939.5	7313.5	10837.0	12624.9	11159.4	7101.7	6752.0	9185.9	8895.6	8720.7
57.5°	5926.4	7578.8	11962.3	13929.9	12314.4	7459.8	6981.6	9267.9	8681.5	8460.2
60°	5379.2	7457.4	12390.6	14755.4	12663.0	7262.3	6226.2	8278.2	7325.4	7093.4
62.5°	4014.8	6617.6	11560.3	13721.7	11676.8	6272.6	4682.2	5941.9	5263.9	4872.5
65°	2568.3	5177.0	9718.8	11116.5	9624.8	4797.5	2788.4	3185.7	2495.7	2383.9
67.5°	1093.2	3654.4	7555.0	7430.1	7200.5	3108.3	1076.6	896.9	668.5	656.6
70°	361.6	2486.2	4657.2	4955.8	4300.3	2141.2	355.7	301.0	299.8	289.1
72.5°	236.7	1334.7	2621.8	2919.2	2766.9	1232.4	215.3	201.0	205.8	201.0
75°	141.6	290.3	441.3	573.4	441.3	207.0	129.7	127.3	129.7	123.7
77.5°	83.3	80.9	78.5	78.5	77.3	71.4	65.4	63.0	64.2	65.4
80°	53.5	51.2	48.8	47.6	41.6	39.3	36.9	34.5	34.5	35.7
82.5°	34.5	32.1	29.7	26.2	21.4	17.8	16.7	14.3	14.3	15.5
85°	17.8	14.3	10.7	8.3	4.8	2.4	0.0	0.0	0.0	0.0
87.5°	3.6	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)