

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: P633915

Luminaire Tested: GWS-SA2F-760-U-SLL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633915
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-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12739.7 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

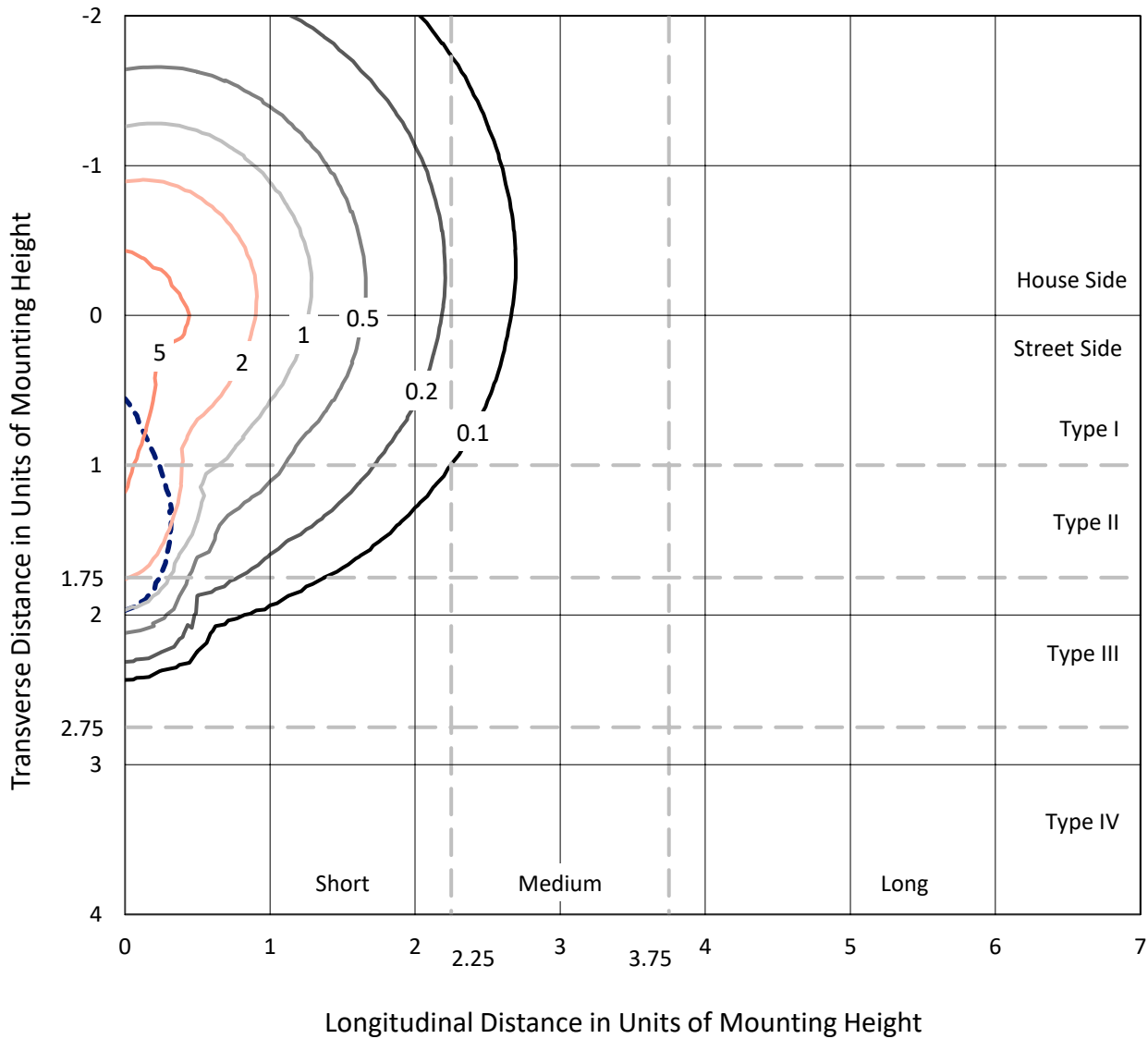
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

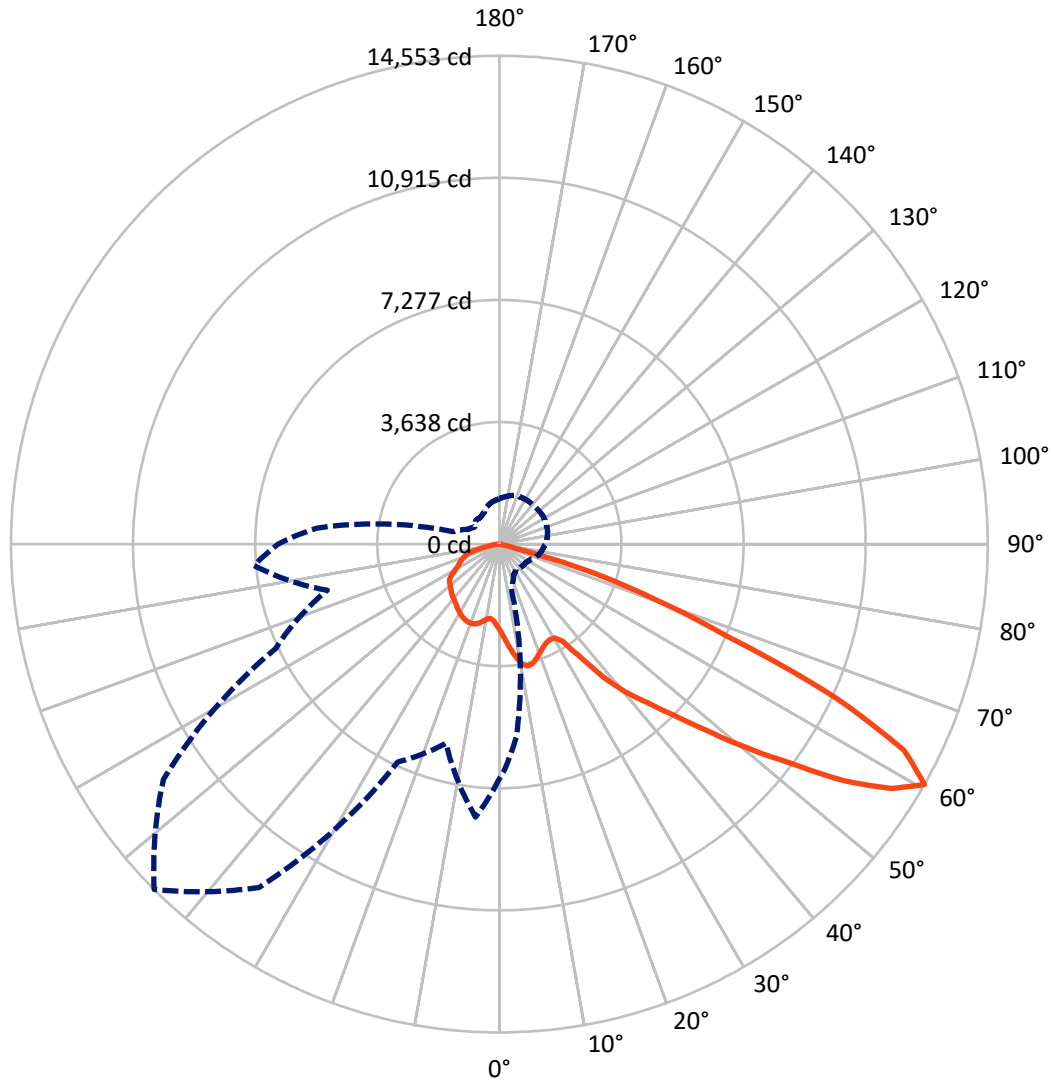
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.8 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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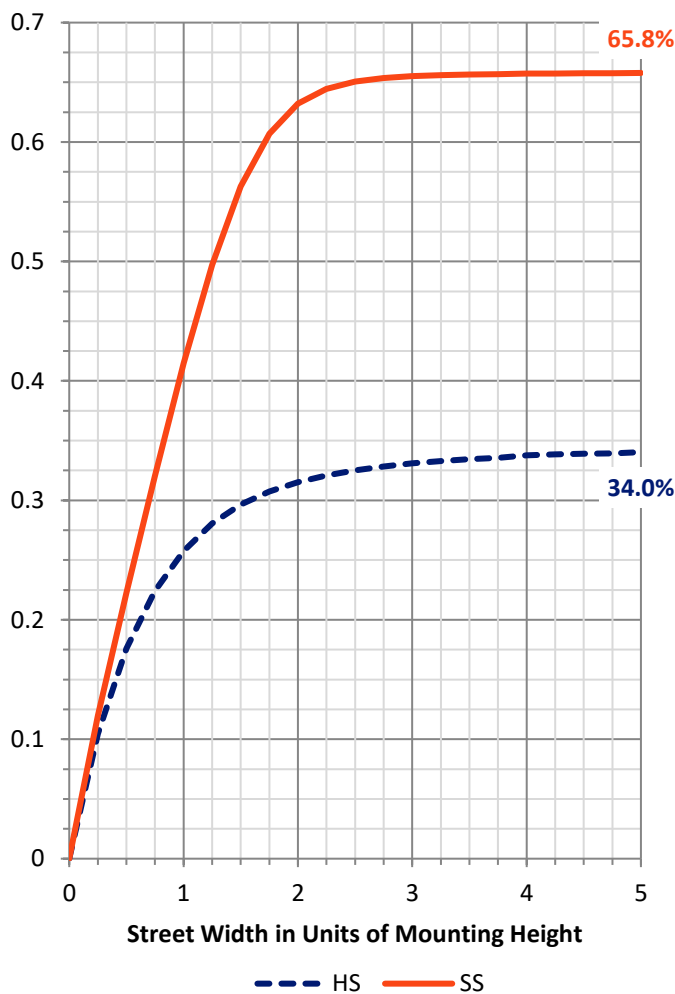
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4358.1	0.0	4358.1
	% Fixture	34.2	0.0	34.2
Street Side	Lumens	8381.6	0.0	8381.6
	% Fixture	65.8	0.0	65.8
Total	Lumens	12739.7	0.0	12739.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.0	2.0
10°-20°	805.2	6.3
20°-30°	1311.3	10.3
30°-40°	1842.1	14.5
40°-50°	2520.8	19.8
50°-60°	3234.0	25.4
60°-70°	2177.7	17.1
70°-80°	544.4	4.3
80°-90°	53.1	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°	12739.7	100.0
0°-180°	12739.7	100.0

Coefficient of Utilization



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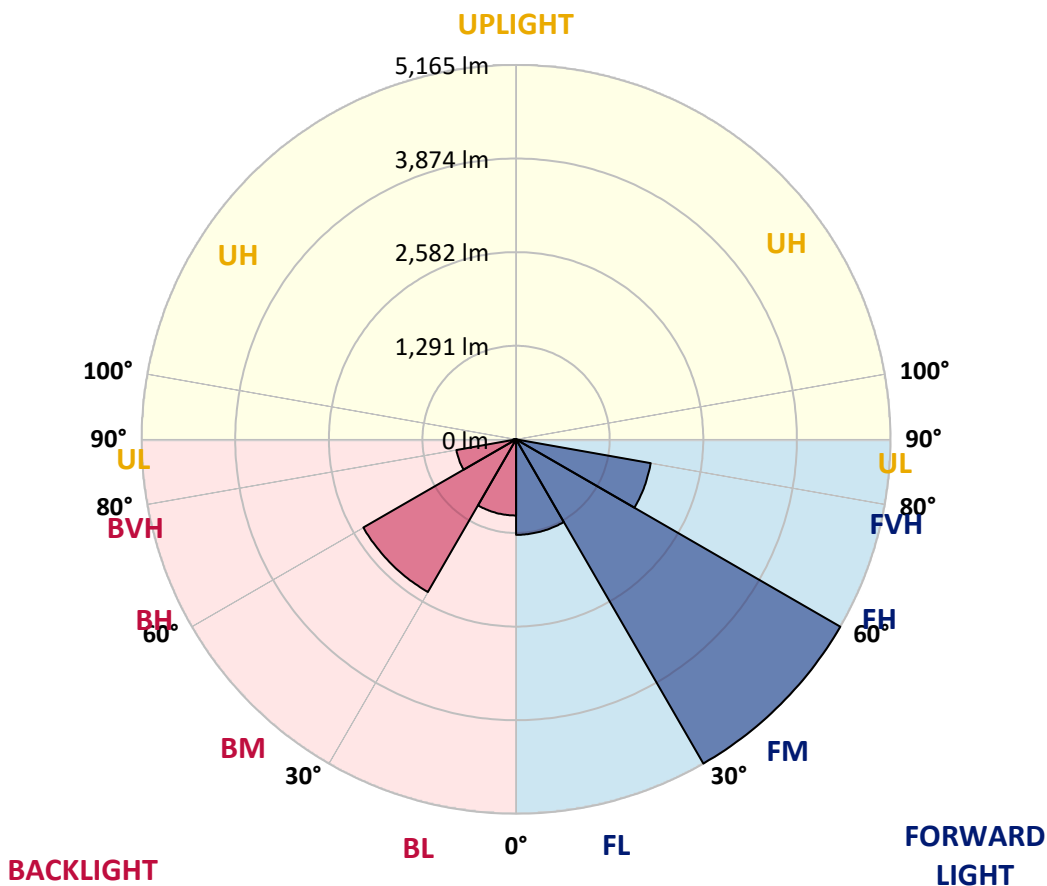
CATALOG NUMBER: GWS-SA2F-760-U-SLL-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1317.0	10.3			
FM (30°-60°)	5164.8	40.5			
FH (60°-80°)	1886.0	14.8			G2/5000
FVH (80°-90°)	13.8	0.1			G1/100
BL (0°-30°)	1050.6	8.2	B3/2500		
BM (30°-60°)	2432.2	19.1	B2/2500		
BH (60°-80°)	836.1	6.6	B2/1000		G2/1000
BVH (80°-90°)	39.3	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°	2569.5	2569.5	2569.5	2569.5	2569.5	2569.5	2569.5	2569.5	2569.5	2569.5	2569.5
2.5°	2718.5	2712.6	2706.7	2661.0	2649.2	2616.4	2592.9	2563.6	2521.4	2497.9	2477.9
5°	2888.6	2879.2	2847.5	2753.7	2692.7	2625.8	2570.6	2509.6	2445.1	2402.9	2370.0
7.5°	3049.3	3047.0	2993.0	2838.1	2739.6	2643.4	2568.3	2479.1	2386.4	2323.1	2280.8
10°	3198.3	3180.7	3116.2	2914.4	2785.3	2675.1	2594.1	2495.5	2387.6	2302.0	2245.6
12.5°	3329.7	3307.4	3218.3	2984.8	2825.2	2689.1	2601.1	2520.2	2448.6	2377.0	2312.5
15°	3437.7	3410.7	3320.4	3050.5	2860.4	2680.9	2557.7	2494.4	2519.0	2550.7	2479.1
17.5°	3538.6	3510.4	3400.1	3098.6	2871.0	2630.5	2451.0	2424.0	2548.3	2692.7	2659.8
20°	3623.1	3591.4	3463.5	3122.1	2852.2	2534.3	2312.5	2359.4	2523.7	2696.2	2749.0
22.5°	3714.6	3688.8	3535.1	3156.1	2828.8	2401.7	2196.4	2311.3	2481.5	2632.8	2712.6
25°	3861.2	3829.6	3646.5	3215.9	2817.0	2277.3	2113.1	2264.4	2422.8	2560.1	2622.3
27.5°	4073.6	4014.9	3799.0	3320.4	2829.9	2160.0	2060.3	2206.9	2354.8	2472.1	2522.5
30°	4304.7	4234.3	3968.0	3428.3	2848.7	2088.4	2032.1	2141.2	2250.3	2367.7	2422.8
32.5°	4578.1	4515.9	4148.7	3509.3	2808.8	2055.6	2011.0	2069.6	2156.5	2250.3	2296.1
35°	4904.3	4792.8	4345.8	3575.0	2679.7	2007.5	1992.2	1991.0	2036.8	2128.3	2179.9
37.5°	5255.1	5135.4	4588.7	3645.4	2479.1	1931.2	1947.6	1898.4	1940.6	2013.3	2072.0
40°	5542.5	5417.0	4833.9	3741.6	2228.0	1811.5	1849.1	1796.3	1822.1	1897.2	1962.9
42.5°	5824.1	5690.4	5062.7	3850.7	1985.2	1694.2	1713.0	1693.0	1701.2	1779.9	1871.4
45°	6193.7	6043.5	5344.2	3928.1	1766.9	1601.5	1583.9	1549.9	1593.3	1695.4	1792.8
47.5°	6810.8	6631.3	5805.3	3978.6	1608.6	1548.7	1467.8	1447.8	1501.8	1615.6	1716.5
50°	7532.4	7377.5	6542.2	3976.2	1490.1	1504.1	1355.1	1337.5	1426.7	1541.7	1648.4
52.5°	8123.7	7966.5	7172.2	3858.9	1392.7	1409.1	1289.4	1240.1	1362.2	1468.9	1575.7
55°	8601.2	8424.1	7462.0	3368.5	1269.5	1257.7	1217.9	1127.5	1281.2	1396.2	1495.9
57.5°	8344.3	8133.1	7111.2	2561.2	1142.8	1068.8	1094.7	1027.8	1170.9	1315.2	1411.4
60°	6996.2	6806.1	5777.2	1363.3	1005.5	892.9	946.8	957.4	1050.1	1217.9	1316.4
62.5°	4805.7	4667.3	3915.2	827.2	793.1	716.9	801.3	877.6	946.8	1088.8	1174.4
65°	2351.2	2310.2	1958.2	530.3	555.0	579.6	664.1	756.8	858.8	983.2	1073.5
67.5°	647.6	652.3	593.7	414.2	437.6	505.7	572.6	646.5	748.5	863.5	955.0
70°	285.1	289.8	299.2	319.1	363.7	425.9	495.1	571.4	665.2	761.5	849.4
72.5°	198.3	203.0	217.1	242.9	282.8	341.4	407.1	479.9	577.2	658.2	730.9
75°	122.0	125.5	138.4	160.7	187.7	232.3	296.8	363.7	449.4	523.3	587.8
77.5°	64.5	62.2	70.4	85.6	109.1	132.6	176.0	218.2	279.2	339.1	393.0
80°	35.2	34.0	38.7	46.9	54.0	72.7	102.1	130.2	165.4	199.5	228.8
82.5°	15.3	14.1	15.3	19.9	24.6	35.2	51.6	71.6	91.5	115.0	133.8
85°	0.0	0.0	0.0	1.2	5.9	9.4	17.6	25.8	37.5	51.6	63.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	10.6
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°	2569.5	2569.5	2569.5	2569.5	2569.5	2569.5	2569.5	2569.5	2569.5	2569.5	2569.5
2.5°	2466.2	2436.9	2434.5	2411.1	2413.4	2414.6	2391.1	2381.7	2390.0	2399.3	2394.6
5°	2358.3	2327.8	2314.9	2292.6	2290.2	2279.7	2270.3	2258.5	2266.8	2275.0	2279.7
7.5°	2264.4	2244.5	2236.3	2230.4	2232.7	2228.0	2209.3	2198.7	2197.5	2201.1	2205.7
10°	2233.9	2217.5	2228.0	2244.5	2256.2	2264.4	2244.5	2226.9	2210.4	2203.4	2203.4
12.5°	2299.6	2278.5	2299.6	2317.2	2340.7	2346.5	2324.2	2305.5	2299.6	2306.6	2320.7
15°	2445.1	2395.8	2394.6	2405.2	2424.0	2433.4	2412.2	2402.9	2402.9	2447.4	2482.6
17.5°	2590.6	2509.6	2475.6	2469.7	2481.5	2485.0	2467.4	2459.2	2480.3	2567.1	2632.8
20°	2692.7	2594.1	2520.2	2506.1	2509.6	2510.8	2496.7	2490.9	2521.4	2627.0	2682.1
22.5°	2682.1	2609.4	2519.0	2501.4	2507.3	2504.9	2492.0	2489.7	2514.3	2605.8	2631.6
25°	2609.4	2553.0	2476.8	2465.0	2474.4	2473.3	2460.3	2454.5	2465.0	2526.1	2528.4
27.5°	2526.1	2476.8	2411.1	2407.6	2422.8	2431.0	2408.7	2391.1	2387.6	2428.7	2419.3
30°	2426.3	2390.0	2337.2	2339.5	2367.7	2372.4	2345.4	2319.6	2312.5	2334.8	2321.9
32.5°	2307.8	2296.1	2267.9	2273.8	2300.8	2310.2	2282.0	2255.0	2246.8	2253.9	2226.9
35°	2206.9	2202.2	2204.6	2215.1	2238.6	2245.6	2222.2	2201.1	2189.3	2164.7	2129.5
37.5°	2102.5	2115.4	2149.4	2169.4	2182.3	2179.9	2167.0	2151.8	2133.0	2087.2	2043.8
40°	2005.1	2038.0	2099.0	2121.3	2126.0	2127.1	2117.8	2104.8	2081.4	2020.4	1971.1
42.5°	1930.0	1966.4	2047.4	2081.4	2083.7	2086.1	2076.7	2066.1	2033.3	1952.3	1904.2
45°	1851.4	1899.5	1994.6	2035.6	2033.3	2032.1	2023.9	2019.2	1980.5	1886.6	1833.8
47.5°	1784.5	1840.9	1942.9	1978.1	1977.0	1975.8	1969.9	1969.9	1931.2	1829.1	1769.3
50°	1718.8	1783.4	1890.1	1919.5	1921.8	1919.5	1917.1	1920.6	1874.9	1765.8	1707.1
52.5°	1647.3	1720.0	1831.5	1858.5	1872.5	1878.4	1878.4	1870.2	1816.2	1702.4	1637.9
55°	1568.7	1637.9	1766.9	1803.3	1815.0	1825.6	1825.6	1809.2	1758.7	1643.8	1574.5
57.5°	1471.3	1532.3	1634.4	1670.7	1698.9	1705.9	1705.9	1678.9	1637.9	1527.6	1471.3
60°	1365.7	1418.5	1487.7	1526.4	1547.5	1533.5	1544.0	1537.0	1504.1	1402.1	1355.1
62.5°	1224.9	1278.9	1355.1	1395.0	1404.4	1390.3	1404.4	1403.2	1358.6	1267.1	1210.8
65°	1124.0	1176.8	1251.9	1303.5	1318.8	1315.2	1324.6	1310.5	1255.4	1168.6	1114.6
67.5°	1004.3	1060.6	1147.5	1204.9	1236.6	1240.1	1253.1	1223.7	1167.4	1072.4	1004.3
70°	890.5	938.6	1005.5	1059.5	1104.0	1126.3	1128.7	1086.4	1016.1	937.4	888.2
72.5°	770.8	820.1	901.1	959.7	1016.1	1041.9	1041.9	990.2	914.0	827.2	774.4
75°	625.4	671.1	745.0	808.4	872.9	905.8	904.6	860.0	775.5	693.4	638.3
77.5°	423.6	457.6	504.5	552.6	562.0	587.8	600.7	544.4	497.5	452.9	403.6
80°	246.4	267.5	293.3	320.3	326.2	334.4	313.3	292.1	267.5	238.2	215.9
82.5°	144.3	158.4	171.3	192.4	195.9	198.3	179.5	170.1	150.2	132.6	118.5
85°	70.4	75.1	86.8	97.4	92.7	90.3	82.1	72.7	64.5	57.5	50.5
87.5°	14.1	14.1	21.1	19.9	16.4	14.1	8.2	10.6	2.3	2.3	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°	2569.5	2569.5	2569.5	2569.5	2569.5	2569.5	2569.5	2569.5	2569.5	2569.5	2569.5
2.5°	2409.9	2429.8	2454.5	2487.3	2524.9	2564.8	2603.5	2632.8	2662.2	2705.6	2698.5
5°	2286.7	2320.7	2359.4	2409.9	2470.9	2540.1	2617.6	2695.0	2778.3	2848.7	2879.2
7.5°	2215.1	2252.7	2298.4	2364.1	2442.7	2527.2	2636.3	2761.9	2896.8	2989.5	3047.0
10°	2215.1	2263.2	2323.1	2386.4	2455.7	2542.5	2677.4	2834.6	3008.3	3130.3	3197.2
12.5°	2343.0	2391.1	2404.0	2401.7	2440.4	2536.6	2710.3	2910.9	3118.6	3247.6	3329.7
15°	2542.5	2558.9	2461.5	2372.4	2378.2	2494.4	2725.5	2971.9	3213.6	3368.5	3457.6
17.5°	2676.2	2632.8	2459.2	2303.1	2270.3	2422.8	2725.5	3030.6	3314.5	3489.3	3572.6
20°	2686.8	2578.8	2399.3	2236.3	2151.8	2327.8	2706.7	3075.1	3411.9	3605.5	3694.6
22.5°	2594.1	2487.3	2336.0	2178.8	2054.4	2212.8	2676.2	3109.2	3495.2	3714.6	3824.9
25°	2488.5	2399.3	2271.5	2120.1	1987.5	2096.6	2648.1	3166.7	3611.3	3862.4	3973.9
27.5°	2385.3	2310.2	2194.0	2070.8	1950.0	1995.7	2630.5	3251.1	3749.8	4072.4	4168.6
30°	2284.4	2216.3	2110.7	2023.9	1930.0	1930.0	2615.2	3348.5	3932.8	4308.2	4404.5
32.5°	2182.3	2117.8	2032.1	1978.1	1918.3	1904.2	2573.0	3440.0	4121.7	4566.4	4664.9
35°	2087.2	2022.7	1957.0	1934.7	1912.4	1884.3	2468.6	3511.6	4305.9	4867.9	4952.4
37.5°	1998.1	1935.9	1886.6	1880.8	1883.1	1830.3	2304.3	3571.4	4535.9	5176.5	5221.1
40°	1920.6	1851.4	1812.7	1811.5	1823.3	1743.5	2096.6	3657.1	4798.7	5438.1	5419.3
42.5°	1851.4	1778.7	1731.7	1742.3	1735.3	1656.7	1893.7	3735.7	5027.5	5683.3	5645.8
45°	1783.4	1713.0	1647.3	1662.5	1654.3	1602.7	1721.2	3793.2	5280.9	5977.8	5982.5
47.5°	1717.7	1648.4	1582.7	1564.0	1562.8	1586.3	1588.6	3812.0	5693.9	6451.8	6345.0
50°	1656.7	1587.4	1519.4	1456.0	1480.7	1553.4	1490.1	3797.9	6312.2	6975.1	6677.1
52.5°	1593.3	1527.6	1452.5	1338.7	1403.2	1474.8	1402.1	3747.4	6690.0	7437.4	7259.0
55°	1520.6	1458.4	1356.3	1217.9	1296.5	1311.7	1311.7	3259.3	6850.7	7894.9	8005.2
57.5°	1423.2	1341.0	1179.1	1067.7	1138.1	1079.4	1215.5	2280.8	6585.6	7750.6	8178.9
60°	1312.9	1224.9	1053.6	973.8	994.9	891.7	1036.0	1430.2	5458.1	6595.0	7336.5
62.5°	1167.4	1086.4	944.5	882.3	838.9	727.4	834.2	904.6	3741.6	4897.2	5402.9
65°	1070.0	980.9	854.1	772.0	682.8	585.5	553.8	593.7	2012.2	2740.8	3082.2
67.5°	955.0	867.0	747.4	644.1	572.6	502.2	447.0	432.9	689.9	912.8	987.9
70°	845.9	761.5	661.7	565.5	493.9	424.7	370.8	332.0	319.1	316.8	312.1
72.5°	734.5	655.9	572.6	483.4	404.8	341.4	293.3	248.7	230.0	224.1	218.2
75°	601.9	539.7	456.4	360.2	296.8	238.2	200.6	171.3	154.9	149.0	142.0
77.5°	387.2	359.0	286.3	232.3	179.5	142.0	122.0	103.2	92.7	90.3	84.5
80°	206.5	192.4	158.4	133.8	106.8	86.8	76.3	65.7	59.8	57.5	55.1
82.5°	115.0	104.4	88.0	77.4	62.2	52.8	46.9	42.2	38.7	37.5	36.4
85°	51.6	44.6	35.2	32.9	29.3	27.0	25.8	23.5	22.3	21.1	19.9
87.5°	2.3	4.7	5.9	4.7	4.7	7.0	8.2	8.2	7.0	7.0	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: P633915

CATALOG NUMBER: GWS-SA2F-760-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2569.5	2569.5	2569.5	2569.5	2569.5	2569.5	2569.5	2569.5	2569.5	2569.5
2.5°	2741.9	2777.1	2780.7	2792.4	2777.1	2773.6	2749.0	2734.9	2722.0	2718.5
5°	2955.5	3025.9	3054.0	3074.0	3055.2	3045.8	2991.8	2935.5	2903.8	2888.6
7.5°	3174.9	3280.5	3335.6	3360.2	3362.6	3320.4	3227.7	3122.1	3069.3	3049.3
10°	3370.8	3501.0	3573.8	3620.7	3604.3	3552.7	3425.9	3282.8	3215.9	3198.3
12.5°	3516.3	3640.7	3697.0	3727.5	3726.3	3698.1	3578.5	3423.6	3347.3	3329.7
15°	3610.2	3684.1	3687.6	3694.6	3714.6	3752.1	3689.9	3546.8	3462.3	3437.7
17.5°	3684.1	3654.7	3599.6	3580.8	3625.4	3729.8	3767.4	3651.2	3559.7	3538.6
20°	3731.0	3583.2	3485.8	3449.4	3501.0	3671.2	3814.3	3745.1	3650.0	3623.1
22.5°	3767.4	3516.3	3359.1	3334.4	3388.4	3607.8	3862.4	3856.5	3752.1	3714.6
25°	3824.9	3471.7	3269.9	3252.3	3302.8	3577.3	3926.9	4007.9	3915.2	3861.2
27.5°	3915.2	3467.0	3224.1	3218.3	3287.5	3604.3	4019.6	4229.6	4113.5	4073.6
30°	4040.7	3511.6	3234.7	3246.4	3330.9	3701.7	4163.9	4483.1	4366.9	4304.7
32.5°	4221.4	3631.3	3395.4	3445.9	3508.1	3857.7	4375.1	4757.6	4669.6	4578.1
35°	4459.6	3959.8	3870.6	4085.3	4026.7	4199.1	4629.7	5090.8	4984.1	4904.3
37.5°	4777.6	4633.2	4715.4	5011.0	4869.1	4844.4	4940.6	5393.5	5334.9	5255.1
40°	5223.4	5252.7	5404.1	5792.4	5587.1	5428.7	5322.0	5621.1	5641.1	5542.5
42.5°	5519.1	5654.0	6018.9	6460.0	6177.3	5798.3	5641.1	5912.1	5913.3	5824.1
45°	5629.4	5982.5	6745.1	7253.2	6780.3	6009.5	5817.1	6307.5	6295.8	6193.7
47.5°	5589.5	6259.4	7499.5	8276.2	7554.7	6159.7	5792.4	6870.7	6965.7	6810.8
50°	5506.2	6537.5	8380.7	9529.3	8505.0	6319.2	5754.9	7494.9	7652.1	7532.4
52.5°	5590.6	6847.2	9422.5	10824.6	9697.1	6573.8	6008.3	8296.2	8268.0	8123.7
55°	5858.1	7213.3	10688.5	12451.9	11006.4	7004.4	6659.5	9060.0	8773.7	8601.2
57.5°	5845.2	7474.9	11798.4	13739.0	12145.7	7357.6	6885.9	9140.9	8562.5	8344.3
60°	5305.5	7355.2	12220.8	14553.2	12489.5	7162.8	6140.9	8164.8	7225.0	6996.2
62.5°	3959.8	6526.9	11401.8	13533.7	11516.8	6186.7	4618.0	5860.5	5191.7	4805.7
65°	2533.1	5106.1	9585.6	10964.2	9492.9	4731.8	2750.1	3142.0	2461.5	2351.2
67.5°	1078.2	3604.3	7451.4	7328.2	7101.8	3065.8	1061.8	884.6	659.4	647.6
70°	356.7	2452.1	4593.4	4887.8	4241.4	2111.9	350.8	296.8	295.7	285.1
72.5°	233.5	1316.4	2585.9	2879.2	2729.0	1215.5	212.4	198.3	203.0	198.3
75°	139.6	286.3	435.3	565.5	435.3	204.1	127.9	125.5	127.9	122.0
77.5°	82.1	79.8	77.4	77.4	76.3	70.4	64.5	62.2	63.4	64.5
80°	52.8	50.5	48.1	46.9	41.1	38.7	36.4	34.0	34.0	35.2
82.5°	34.0	31.7	29.3	25.8	21.1	17.6	16.4	14.1	14.1	15.3
85°	17.6	14.1	10.6	8.2	4.7	2.3	0.0	0.0	0.0	0.0
87.5°	3.5	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)