

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: P633750

Luminaire Tested: GWS-SA2F-735-U-SLL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633750
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12454.3 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

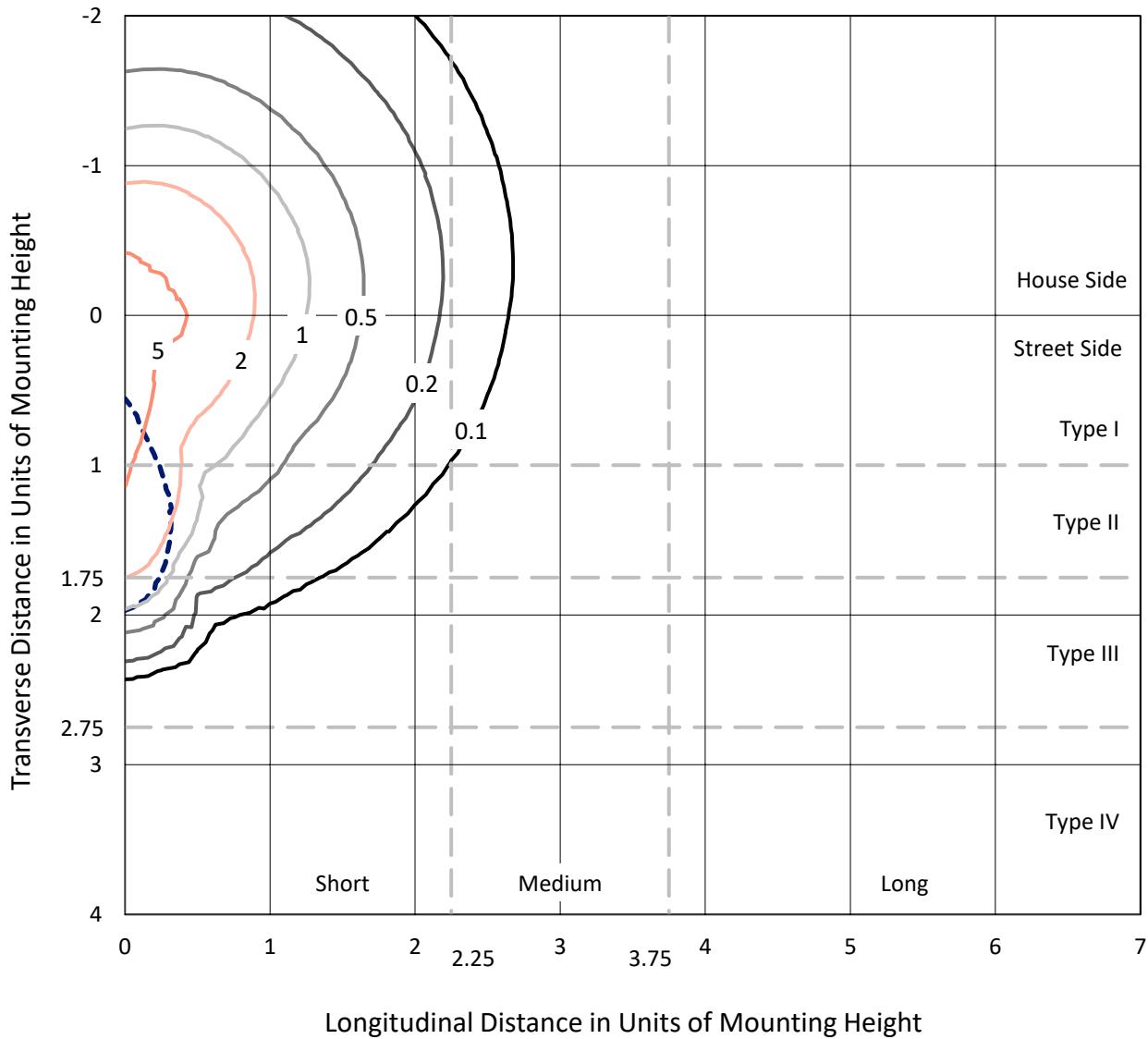
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P633750
 CATALOG NUMBER: GWS-SA2F-735-U-SLL-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

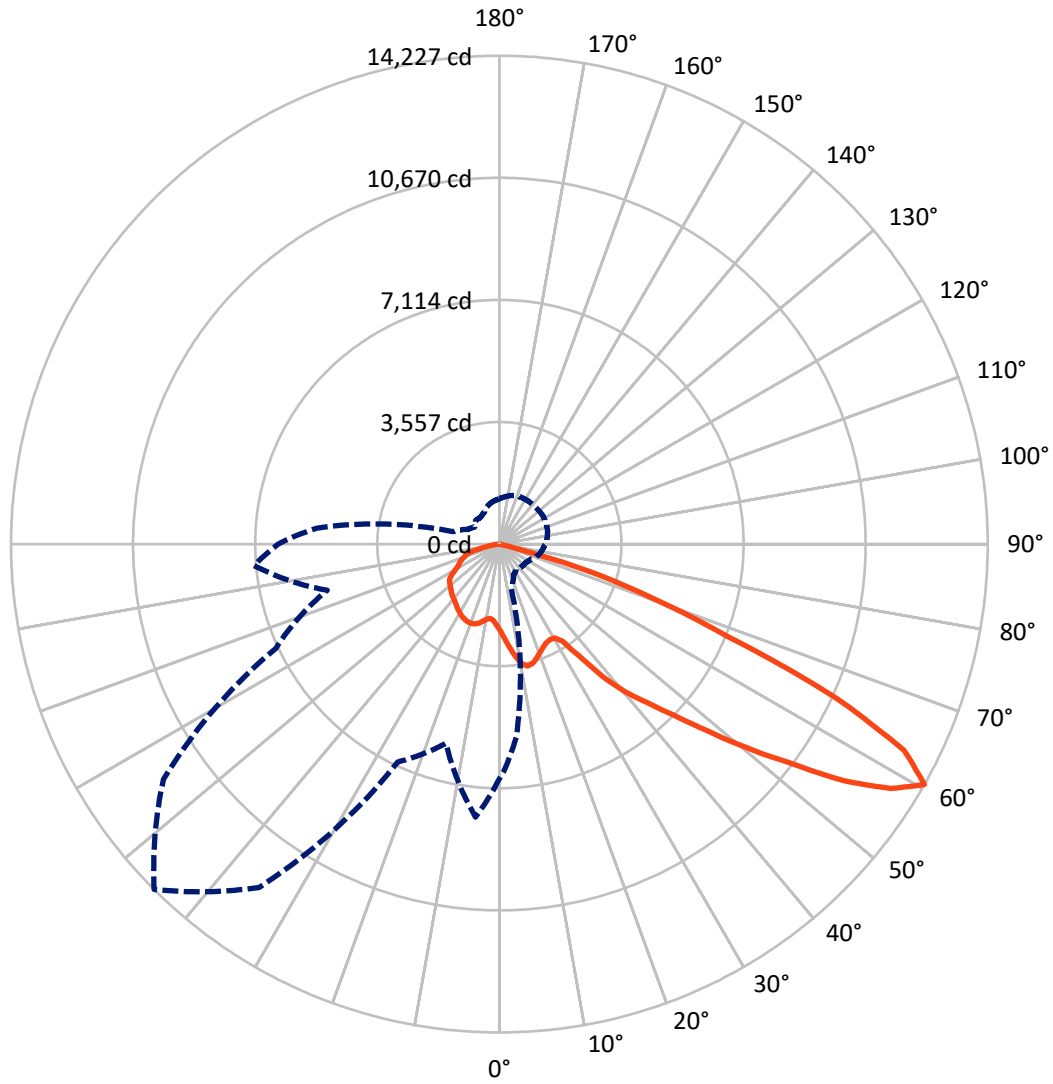
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.6 fc
 Type III - Short - N/A

REPORT NUMBER: P633750
CATALOG NUMBER: GWS-SA2F-735-U-SLL-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

REPORT NUMBER: P633750
 CATALOG NUMBER: GWS-SA2F-735-U-SLL-W-GRSWH

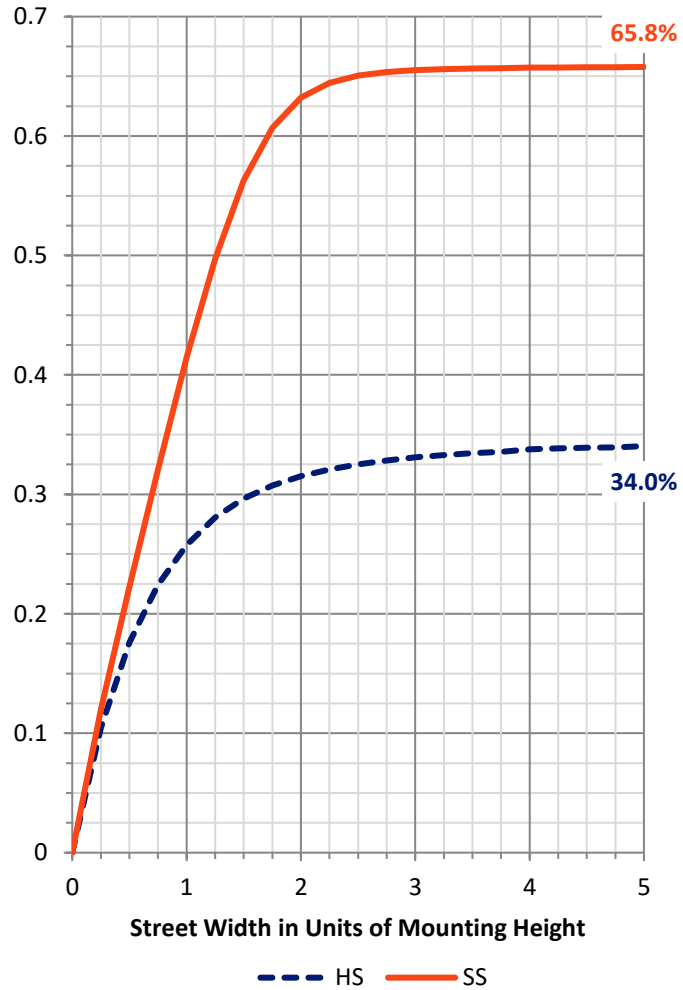
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4260.5	0.0	4260.5
	% Fixture	34.2	0.0	34.2
Street Side	Lumens	8193.8	0.0	8193.8
	% Fixture	65.8	0.0	65.8
Total	Lumens	12454.3	0.0	12454.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.4	2.0
10°-20°	787.2	6.3
20°-30°	1282.0	10.3
30°-40°	1800.9	14.5
40°-50°	2464.3	19.8
50°-60°	3161.6	25.4
60°-70°	2128.9	17.1
70°-80°	532.2	4.3
80°-90°	51.9	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°	12454.3	100.0
0°-180°	12454.3	100.0

Coefficient of Utilization



REPORT NUMBER: P633750

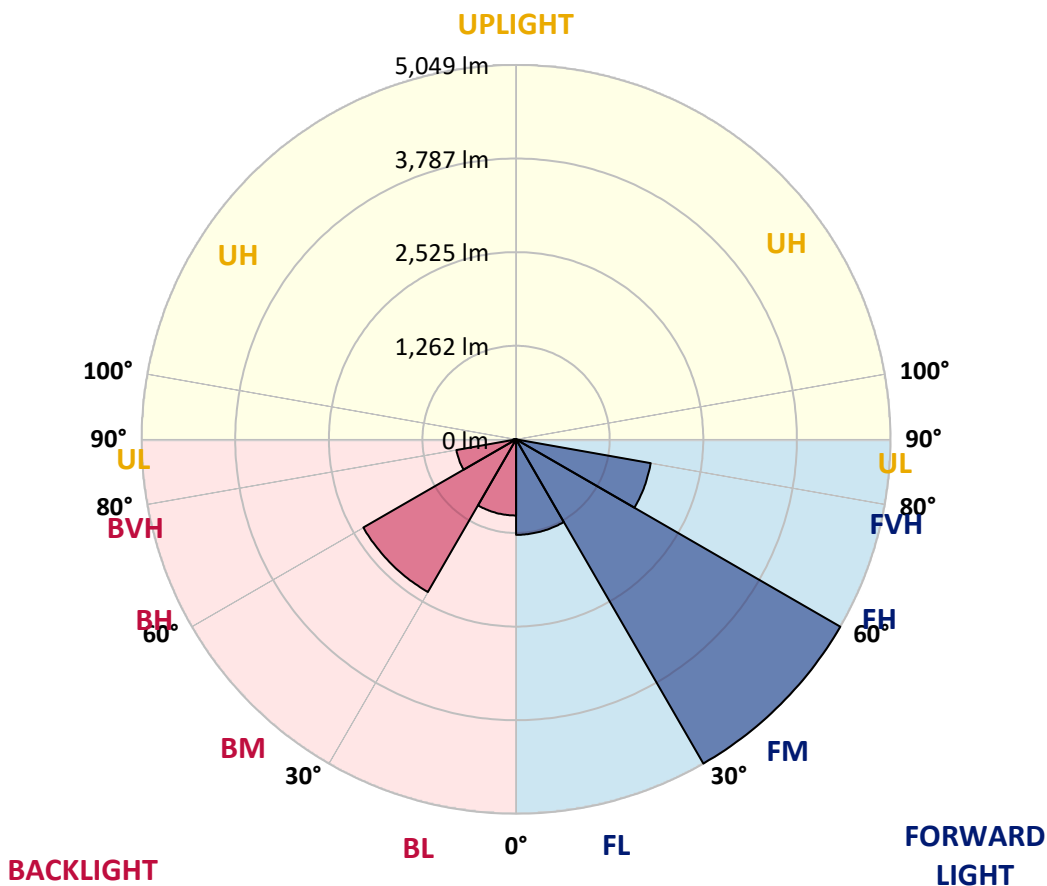
CATALOG NUMBER: GWS-SA2F-735-U-SLL-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1287.5	10.3			
FM (30°-60°)	5049.1	40.5			
FH (60°-80°)	1843.8	14.8			G2/5000
FVH (80°-90°)	13.5	0.1			G1/100
BL (0°-30°)	1027.0	8.2	B3/2500		
BM (30°-60°)	2377.7	19.1	B2/2500		
BH (60°-80°)	817.4	6.6	B2/1000		G2/1000
BVH (80°-90°)	38.4	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





REPORT NUMBER: P633750

CATALOG NUMBER: GWS-SA2F-735-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2511.9	2511.9	2511.9	2511.9	2511.9	2511.9	2511.9	2511.9	2511.9	2511.9	2511.9
2.5°	2657.6	2651.8	2646.1	2601.4	2589.9	2557.8	2534.8	2506.2	2464.9	2441.9	2422.4
5°	2823.9	2814.7	2783.7	2692.0	2632.3	2567.0	2513.0	2453.4	2390.3	2349.0	2316.9
7.5°	2981.0	2978.7	2926.0	2774.6	2678.2	2584.2	2510.8	2423.6	2333.0	2271.0	2229.7
10°	3126.7	3109.5	3046.4	2849.1	2722.9	2615.1	2536.0	2439.6	2334.1	2250.4	2195.3
12.5°	3255.1	3233.4	3146.2	2917.9	2761.9	2628.9	2542.9	2463.7	2393.8	2323.8	2260.7
15°	3360.7	3334.3	3246.0	2982.2	2796.4	2620.9	2500.4	2438.5	2462.6	2493.5	2423.6
17.5°	3459.3	3431.8	3324.0	3029.2	2806.7	2571.5	2396.1	2369.7	2491.3	2632.3	2600.2
20°	3541.9	3510.9	3385.9	3052.1	2788.3	2477.5	2260.7	2306.6	2467.2	2635.8	2687.4
22.5°	3631.4	3606.1	3455.9	3085.4	2765.4	2347.9	2147.2	2259.6	2425.9	2573.8	2651.8
25°	3774.7	3743.8	3564.8	3143.9	2753.9	2226.3	2065.7	2213.7	2368.5	2502.7	2563.5
27.5°	3982.3	3925.0	3713.9	3246.0	2766.5	2111.6	2014.1	2157.5	2302.0	2416.7	2466.0
30°	4208.3	4139.5	3879.1	3351.5	2784.9	2041.6	1986.6	2093.2	2199.9	2314.6	2368.5
32.5°	4475.5	4414.8	4055.7	3430.6	2745.9	2009.5	1965.9	2023.3	2108.2	2199.9	2244.7
35°	4794.4	4685.4	4248.4	3494.9	2619.7	1962.5	1947.6	1946.4	1991.2	2080.6	2131.1
37.5°	5137.4	5020.4	4485.9	3563.7	2423.6	1887.9	1904.0	1855.8	1897.1	1968.2	2025.6
40°	5418.4	5295.6	4725.6	3657.7	2178.1	1770.9	1807.7	1756.0	1781.3	1854.7	1918.9
42.5°	5693.6	5562.9	4949.2	3764.4	1940.7	1656.2	1674.6	1655.1	1663.1	1740.0	1829.4
45°	6054.9	5908.1	5224.5	3840.1	1727.4	1565.6	1548.4	1515.2	1557.6	1657.4	1752.6
47.5°	6658.3	6482.8	5675.3	3889.4	1572.5	1514.0	1434.9	1415.4	1468.1	1579.4	1678.0
50°	7363.7	7212.2	6395.6	3887.1	1456.7	1470.4	1324.8	1307.6	1394.7	1507.1	1611.5
52.5°	7941.7	7788.0	7011.5	3772.4	1361.5	1377.5	1260.5	1212.4	1331.7	1436.0	1540.4
55°	8408.6	8235.4	7294.8	3293.0	1241.0	1229.6	1190.6	1102.3	1252.5	1364.9	1462.4
57.5°	8157.4	7950.9	6951.9	2503.9	1117.2	1044.9	1070.1	1004.8	1144.7	1285.8	1379.8
60°	6839.5	6653.7	5647.8	1332.8	983.0	872.9	925.6	935.9	1026.6	1190.6	1286.9
62.5°	4698.1	4562.7	3827.5	808.6	775.4	700.8	783.4	857.9	925.6	1064.4	1148.1
65°	2298.6	2258.4	1914.3	518.4	542.5	566.6	649.2	739.8	839.6	961.2	1049.5
67.5°	633.1	637.7	580.4	404.9	427.8	494.4	559.7	632.0	731.8	844.2	933.6
70°	278.7	283.3	292.5	312.0	355.6	416.4	484.0	558.6	650.3	744.4	830.4
72.5°	193.8	198.4	212.2	237.4	276.4	333.8	398.0	469.1	564.3	643.5	714.6
75°	119.3	122.7	135.3	157.1	183.5	227.1	290.2	355.6	439.3	511.6	574.6
77.5°	63.1	60.8	68.8	83.7	106.7	129.6	172.0	213.3	273.0	331.5	384.2
80°	34.4	33.3	37.9	45.9	52.8	71.1	99.8	127.3	161.7	195.0	223.7
82.5°	14.9	13.8	14.9	19.5	24.1	34.4	50.5	70.0	89.5	112.4	130.8
85°	0.0	0.0	0.0	1.1	5.7	9.2	17.2	25.2	36.7	50.5	61.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	10.3
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: P633750

CATALOG NUMBER: GWS-SA2F-735-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2511.9	2511.9	2511.9	2511.9	2511.9	2511.9	2511.9	2511.9	2511.9	2511.9	2511.9
2.5°	2411.0	2382.3	2380.0	2357.1	2359.4	2360.5	2337.6	2328.4	2336.4	2345.6	2341.0
5°	2305.4	2275.6	2263.0	2241.2	2238.9	2228.6	2219.4	2207.9	2216.0	2224.0	2228.6
7.5°	2213.7	2194.2	2186.2	2180.4	2182.7	2178.1	2159.8	2149.5	2148.3	2151.7	2156.3
10°	2183.9	2167.8	2178.1	2194.2	2205.7	2213.7	2194.2	2177.0	2160.9	2154.0	2154.0
12.5°	2248.1	2227.4	2248.1	2265.3	2288.2	2294.0	2272.2	2253.8	2248.1	2255.0	2268.7
15°	2390.3	2342.1	2341.0	2351.3	2369.7	2378.8	2358.2	2349.0	2349.0	2392.6	2427.0
17.5°	2532.5	2453.4	2420.1	2414.4	2425.9	2429.3	2412.1	2404.1	2424.7	2509.6	2573.8
20°	2632.3	2536.0	2463.7	2450.0	2453.4	2454.6	2440.8	2435.1	2464.9	2568.1	2622.0
22.5°	2622.0	2550.9	2462.6	2445.4	2451.1	2448.8	2436.2	2433.9	2458.0	2547.5	2572.7
25°	2550.9	2495.8	2421.3	2409.8	2419.0	2417.8	2405.2	2399.5	2409.8	2469.5	2471.8
27.5°	2469.5	2421.3	2357.1	2353.6	2368.5	2376.6	2354.8	2337.6	2334.1	2374.3	2365.1
30°	2372.0	2336.4	2284.8	2287.1	2314.6	2319.2	2292.8	2267.6	2260.7	2282.5	2269.9
32.5°	2256.1	2244.7	2217.1	2222.9	2249.2	2258.4	2230.9	2204.5	2196.5	2203.4	2177.0
35°	2157.5	2152.9	2155.2	2165.5	2188.4	2195.3	2172.4	2151.7	2140.3	2116.2	2081.8
37.5°	2055.4	2068.0	2101.3	2120.8	2133.4	2131.1	2118.5	2103.6	2085.2	2040.5	1998.1
40°	1960.2	1992.3	2052.0	2073.8	2078.3	2079.5	2070.3	2057.7	2034.8	1975.1	1926.9
42.5°	1886.8	1922.3	2001.5	2034.8	2037.0	2039.3	2030.2	2019.8	1987.7	1908.6	1861.6
45°	1809.9	1857.0	1949.9	1990.0	1987.7	1986.6	1978.6	1974.0	1936.1	1844.4	1792.7
47.5°	1744.6	1799.6	1899.4	1933.8	1932.7	1931.5	1925.8	1925.8	1887.9	1788.2	1729.7
50°	1680.3	1743.4	1847.8	1876.5	1878.8	1876.5	1874.2	1877.6	1832.9	1726.2	1668.9
52.5°	1610.4	1681.5	1790.4	1816.8	1830.6	1836.3	1836.3	1828.3	1775.5	1664.3	1601.2
55°	1533.5	1601.2	1727.4	1762.9	1774.4	1784.7	1784.7	1768.7	1719.3	1606.9	1539.3
57.5°	1438.3	1498.0	1597.8	1633.3	1660.8	1667.7	1667.7	1641.3	1601.2	1493.4	1438.3
60°	1335.1	1386.7	1454.4	1492.2	1512.9	1499.1	1509.4	1502.6	1470.4	1370.6	1324.8
62.5°	1197.5	1250.2	1324.8	1363.8	1372.9	1359.2	1372.9	1371.8	1328.2	1238.7	1183.7
65°	1098.8	1150.4	1223.8	1274.3	1289.2	1285.8	1294.9	1281.2	1227.3	1142.4	1089.6
67.5°	981.8	1036.9	1121.8	1178.0	1208.9	1212.4	1225.0	1196.3	1141.3	1048.3	981.8
70°	870.6	917.6	983.0	1035.7	1079.3	1101.1	1103.4	1062.1	993.3	916.4	868.3
72.5°	753.6	801.7	880.9	938.2	993.3	1018.5	1018.5	968.1	893.5	808.6	757.0
75°	611.3	656.1	728.3	790.3	853.4	885.5	884.3	840.7	758.2	677.9	624.0
77.5°	414.1	447.3	493.2	540.2	549.4	574.6	587.3	532.2	486.3	442.7	394.6
80°	240.9	261.5	286.7	313.1	318.9	326.9	306.2	285.6	261.5	232.8	211.0
82.5°	141.1	154.8	167.5	188.1	191.5	193.8	175.5	166.3	146.8	129.6	115.8
85°	68.8	73.4	84.9	95.2	90.6	88.3	80.3	71.1	63.1	56.2	49.3
87.5°	13.8	13.8	20.6	19.5	16.1	13.8	8.0	10.3	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



REPORT NUMBER: P633750

CATALOG NUMBER: GWS-SA2F-735-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2511.9	2511.9	2511.9	2511.9	2511.9	2511.9	2511.9	2511.9	2511.9	2511.9	2511.9
2.5°	2355.9	2375.4	2399.5	2431.6	2468.3	2507.3	2545.2	2573.8	2602.5	2645.0	2638.1
5°	2235.5	2268.7	2306.6	2355.9	2415.6	2483.2	2558.9	2634.6	2716.1	2784.9	2814.7
7.5°	2165.5	2202.2	2246.9	2311.2	2388.0	2470.6	2577.3	2700.0	2831.9	2922.5	2978.7
10°	2165.5	2212.5	2271.0	2333.0	2400.6	2485.5	2617.4	2771.1	2940.9	3060.2	3125.5
12.5°	2290.5	2337.6	2350.2	2347.9	2385.7	2479.8	2649.5	2845.7	3048.7	3174.9	3255.1
15°	2485.5	2501.6	2406.4	2319.2	2324.9	2438.5	2664.4	2905.3	3141.6	3293.0	3380.2
17.5°	2616.3	2573.8	2404.1	2251.5	2219.4	2368.5	2664.4	2962.7	3240.2	3411.1	3492.6
20°	2626.6	2521.1	2345.6	2186.2	2103.6	2275.6	2646.1	3006.3	3335.4	3524.7	3611.9
22.5°	2536.0	2431.6	2283.6	2130.0	2008.4	2163.2	2616.3	3039.5	3416.9	3631.4	3739.2
25°	2432.8	2345.6	2220.6	2072.6	1943.0	2049.7	2588.7	3095.7	3530.4	3775.9	3884.8
27.5°	2331.8	2258.4	2144.9	2024.4	1906.3	1951.0	2571.5	3178.3	3665.8	3981.2	4075.2
30°	2233.2	2166.7	2063.4	1978.6	1886.8	1886.8	2556.6	3273.5	3844.7	4211.7	4305.8
32.5°	2133.4	2070.3	1986.6	1933.8	1875.3	1861.6	2515.3	3363.0	4029.4	4464.1	4560.4
35°	2040.5	1977.4	1913.2	1891.4	1869.6	1842.1	2413.3	3432.9	4209.4	4758.8	4841.4
37.5°	1953.3	1892.5	1844.4	1838.6	1840.9	1789.3	2252.7	3491.4	4434.2	5060.5	5104.1
40°	1877.6	1809.9	1772.1	1770.9	1782.4	1704.4	2049.7	3575.2	4691.2	5316.3	5297.9
42.5°	1809.9	1738.8	1693.0	1703.3	1696.4	1619.5	1851.2	3652.0	4914.8	5556.0	5519.3
45°	1743.4	1674.6	1610.4	1625.3	1617.3	1566.8	1682.6	3708.2	5162.6	5843.9	5848.5
47.5°	1679.2	1611.5	1547.3	1528.9	1527.8	1550.7	1553.0	3726.6	5566.3	6307.3	6202.9
50°	1619.5	1551.9	1485.3	1423.4	1447.5	1518.6	1456.7	3712.8	6170.8	6818.8	6527.5
52.5°	1557.6	1493.4	1420.0	1308.7	1371.8	1441.8	1370.6	3663.5	6540.1	7270.7	7096.4
55°	1486.5	1425.7	1325.9	1190.6	1267.4	1282.3	1282.3	3186.3	6697.3	7718.1	7825.9
57.5°	1391.3	1311.0	1152.7	1043.8	1112.6	1055.2	1188.3	2229.7	6438.0	7577.0	7995.6
60°	1283.5	1197.5	1030.0	952.0	972.6	871.7	1012.8	1398.2	5335.8	6447.2	7172.1
62.5°	1141.3	1062.1	923.3	862.5	820.1	711.1	815.5	884.3	3657.7	4787.5	5281.9
65°	1046.1	958.9	835.0	754.7	667.5	572.3	541.4	580.4	1967.1	2679.4	3013.1
67.5°	933.6	847.6	730.6	629.7	559.7	490.9	437.0	423.2	674.4	892.4	965.8
70°	827.0	744.4	646.9	552.8	482.9	415.2	362.4	324.6	312.0	309.7	305.1
72.5°	718.0	641.2	559.7	472.6	395.7	333.8	286.7	243.2	224.8	219.1	213.3
75°	588.4	527.6	446.2	352.1	290.2	232.8	196.1	167.5	151.4	145.7	138.8
77.5°	378.5	351.0	279.9	227.1	175.5	138.8	119.3	100.9	90.6	88.3	82.6
80°	201.9	188.1	154.8	130.8	104.4	84.9	74.6	64.2	58.5	56.2	53.9
82.5°	112.4	102.1	86.0	75.7	60.8	51.6	45.9	41.3	37.9	36.7	35.6
85°	50.5	43.6	34.4	32.1	28.7	26.4	25.2	22.9	21.8	20.6	19.5
87.5°	2.3	4.6	5.7	4.6	4.6	6.9	8.0	8.0	6.9	6.9	5.7
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: P633750

CATALOG NUMBER: GWS-SA2F-735-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2511.9	2511.9	2511.9	2511.9	2511.9	2511.9	2511.9	2511.9	2511.9	2511.9
2.5°	2680.5	2714.9	2718.4	2729.8	2714.9	2711.5	2687.4	2673.6	2661.0	2657.6
5°	2889.3	2958.1	2985.6	3005.1	2986.8	2977.6	2924.8	2869.8	2838.8	2823.9
7.5°	3103.7	3207.0	3260.9	3285.0	3287.3	3246.0	3155.4	3052.1	3000.5	2981.0
10°	3295.3	3422.6	3493.7	3539.6	3523.5	3473.1	3349.2	3209.3	3143.9	3126.7
12.5°	3437.5	3559.1	3614.2	3644.0	3642.8	3615.3	3498.3	3346.9	3272.4	3255.1
15°	3529.3	3601.5	3605.0	3611.9	3631.4	3668.1	3607.3	3467.3	3384.8	3360.7
17.5°	3601.5	3572.9	3519.0	3500.6	3544.2	3646.3	3683.0	3569.4	3480.0	3459.3
20°	3647.4	3502.9	3407.7	3372.1	3422.6	3588.9	3728.9	3661.2	3568.3	3541.9
22.5°	3683.0	3437.5	3283.8	3259.7	3312.5	3527.0	3775.9	3770.1	3668.1	3631.4
25°	3739.2	3393.9	3196.7	3179.4	3228.8	3497.2	3839.0	3918.1	3827.5	3774.7
27.5°	3827.5	3389.3	3151.9	3146.2	3213.9	3523.5	3929.6	4134.9	4021.3	3982.3
30°	3950.2	3432.9	3162.2	3173.7	3256.3	3618.7	4070.7	4382.6	4269.1	4208.3
32.5°	4126.9	3549.9	3319.4	3368.7	3429.5	3771.3	4277.1	4651.0	4565.0	4475.5
35°	4359.7	3871.1	3783.9	3993.8	3936.5	4105.1	4526.0	4976.8	4872.4	4794.4
37.5°	4670.5	4529.4	4609.7	4898.8	4760.0	4735.9	4830.0	5272.7	5215.3	5137.4
40°	5106.4	5135.1	5283.0	5662.7	5461.9	5307.1	5202.7	5495.2	5514.7	5418.4
42.5°	5395.4	5527.3	5884.0	6315.3	6038.9	5668.4	5514.7	5779.7	5780.8	5693.6
45°	5503.2	5848.5	6594.0	7090.7	6628.4	5874.9	5686.8	6166.2	6154.7	6054.9
47.5°	5464.2	6119.2	7331.5	8090.8	7385.4	6021.7	5662.7	6716.8	6809.7	6658.3
50°	5382.8	6391.0	8192.9	9315.8	8314.5	6177.7	5626.0	7326.9	7480.6	7363.7
52.5°	5465.4	6693.8	9211.4	10582.1	9479.8	6426.6	5873.7	8110.3	8082.8	7941.7
55°	5726.9	7051.7	10449.0	12173.0	10759.9	6847.5	6510.3	8857.0	8577.2	8408.6
57.5°	5714.3	7307.4	11534.1	13431.2	11873.6	7192.8	6731.7	8936.2	8370.7	8157.4
60°	5186.7	7190.5	11947.0	14227.2	12209.7	7002.4	6003.3	7981.9	7063.1	6839.5
62.5°	3871.1	6380.7	11146.4	13230.5	11258.8	6048.1	4514.5	5729.2	5075.4	4698.1
65°	2476.3	4991.7	9370.9	10718.6	9280.3	4625.8	2688.5	3071.6	2406.4	2298.6
67.5°	1054.1	3523.5	7284.5	7164.1	6942.7	2997.1	1038.0	864.8	644.6	633.1
70°	348.7	2397.2	4490.5	4778.3	4146.4	2064.6	342.9	290.2	289.0	278.7
72.5°	228.3	1286.9	2528.0	2814.7	2667.9	1188.3	207.6	193.8	198.4	193.8
75°	136.5	279.9	425.5	552.8	425.5	199.6	125.0	122.7	125.0	119.3
77.5°	80.3	78.0	75.7	75.7	74.6	68.8	63.1	60.8	61.9	63.1
80°	51.6	49.3	47.0	45.9	40.1	37.9	35.6	33.3	33.3	34.4
82.5°	33.3	31.0	28.7	25.2	20.6	17.2	16.1	13.8	13.8	14.9
85°	17.2	13.8	10.3	8.0	4.6	2.3	0.0	0.0	0.0	0.0
87.5°	3.4	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)