

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: P639854

Luminaire Tested: GWS-SA5C-760-U-SLL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639854
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-38)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5C-760-U-SLL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12882.3 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

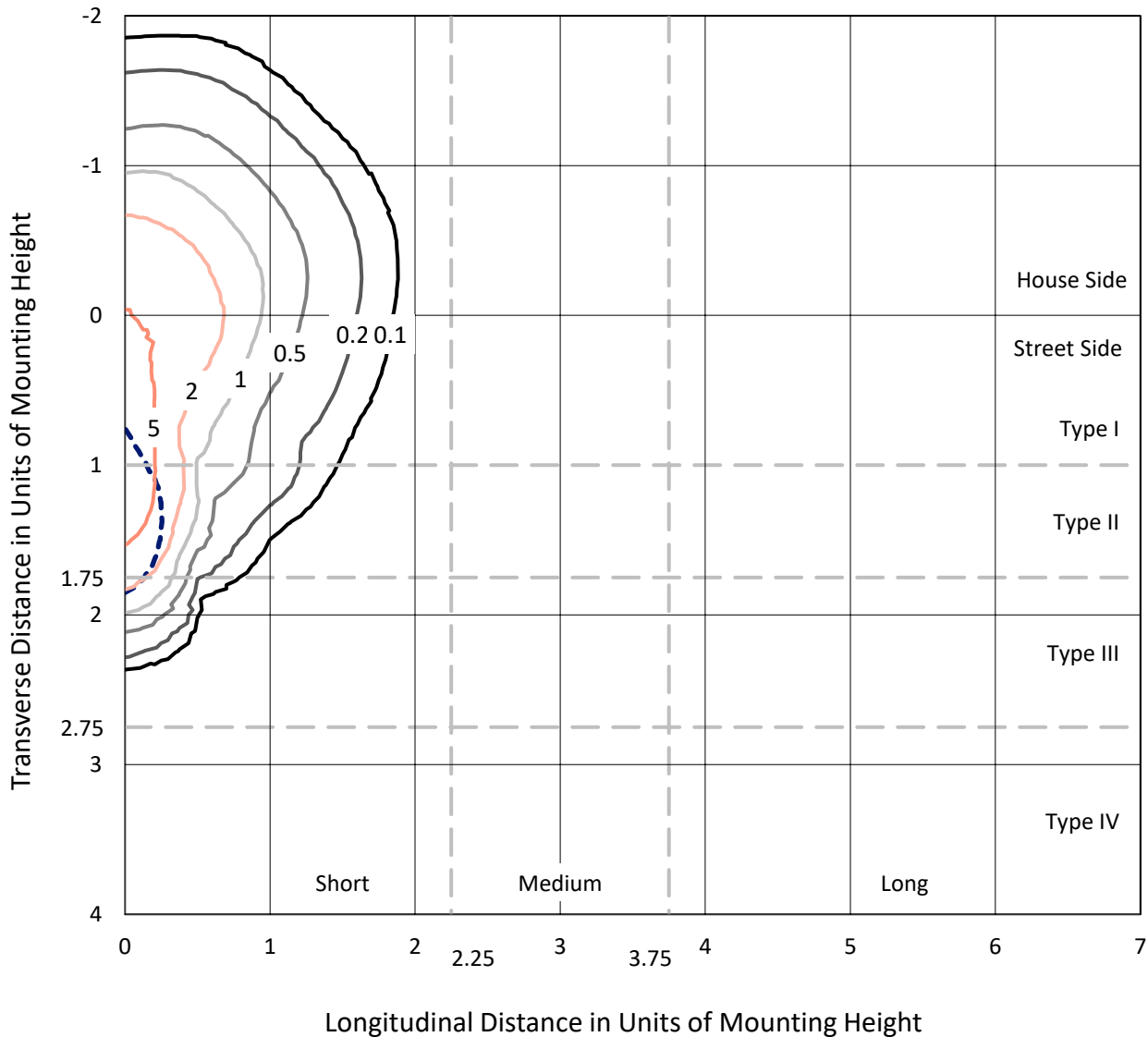
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P639854
 CATALOG NUMBER: GWS-SA5C-760-U-SLL-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

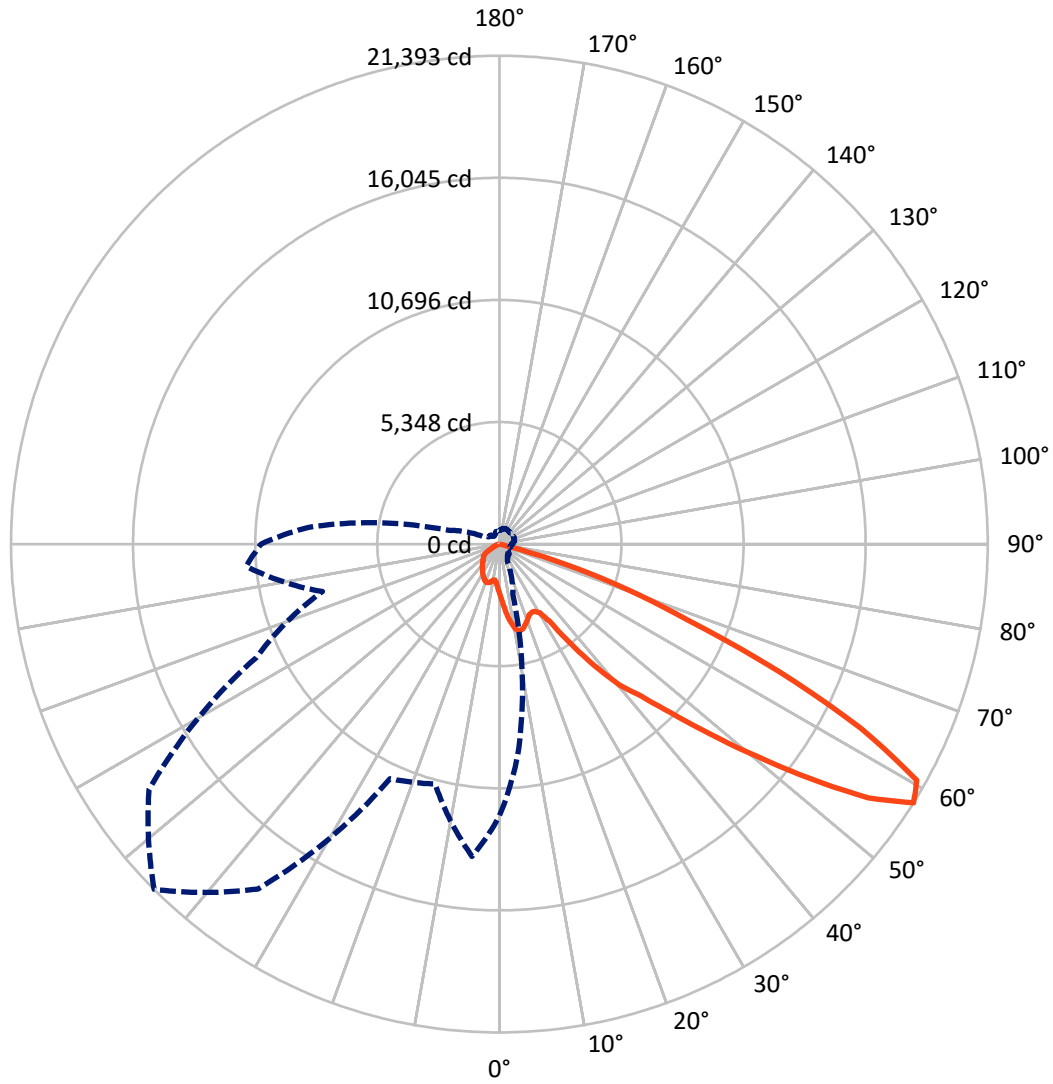
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.6 fc
 Type III - Short - N/A

REPORT NUMBER: P639854
CATALOG NUMBER: GWS-SA5C-760-U-SLL-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P639854
 CATALOG NUMBER: GWS-SA5C-760-U-SLL-W-GRSBK

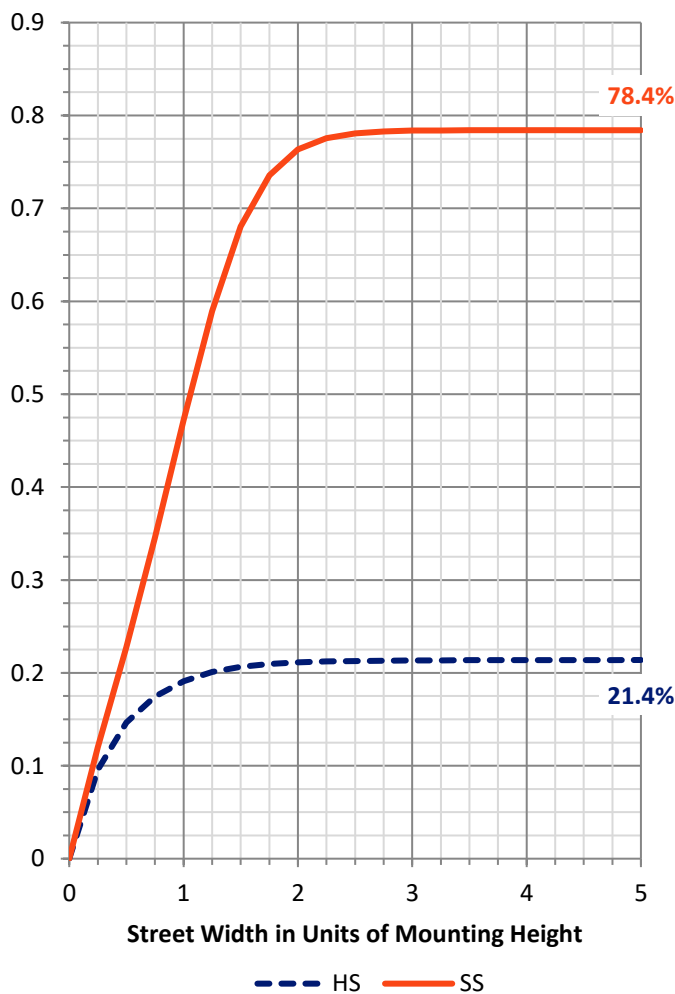
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2775.3	0.0	2775.3
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	10107.0	0.0	10107.0
	% Fixture	78.5	0.0	78.5
Total	Lumens	12882.3	0.0	12882.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.3	1.7
10°-20°	711.9	5.5
20°-30°	1155.3	9.0
30°-40°	1773.1	13.8
40°-50°	2831.8	22.0
50°-60°	3965.1	30.8
60°-70°	2033.0	15.8
70°-80°	195.7	1.5
80°-90°	0.0	0.0
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°	12882.3	100.0
0°-180°	12882.3	100.0

Coefficient of Utilization



REPORT NUMBER: P639854

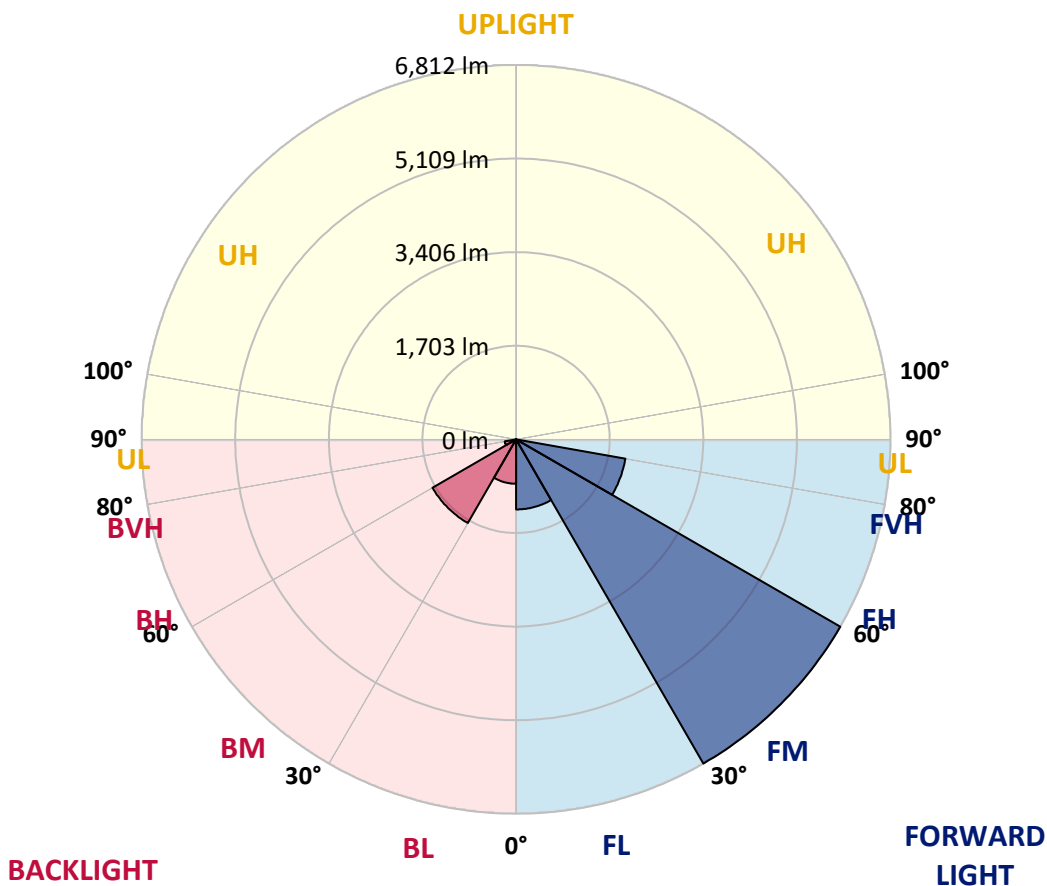
CATALOG NUMBER: GWS-SA5C-760-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1275.4	9.9			
FM (30°-60°)	6812.5	52.9			
FH (60°-80°)	2019.1	15.7			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	808.1	6.3	B2/1000		
BM (30°-60°)	1757.6	13.6	B2/2500		
BH (60°-80°)	209.6	1.6	B1/500		G1/500
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





REPORT NUMBER: P639854

CATALOG NUMBER: GWS-SA5C-760-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2188.9	2188.9	2188.9	2188.9	2188.9	2188.9	2188.9	2188.9	2188.9	2188.9	2188.9
2.5°	2431.7	2426.6	2409.3	2350.8	2314.6	2257.8	2216.4	2163.1	2104.5	2068.3	2032.2
5°	2690.0	2676.3	2629.8	2495.4	2392.1	2280.2	2190.6	2092.5	1987.4	1918.5	1854.8
7.5°	2938.0	2917.4	2855.4	2628.1	2471.3	2311.2	2183.7	2040.8	1892.7	1789.3	1710.1
10°	3180.9	3134.4	3036.2	2757.2	2545.4	2352.5	2202.7	2039.1	1865.1	1734.2	1646.4
12.5°	3380.6	3346.2	3211.9	2879.5	2607.4	2361.1	2176.8	2025.3	1908.2	1820.3	1739.4
15°	3552.9	3515.0	3387.5	2989.7	2660.8	2326.7	2068.3	1935.7	1954.7	1989.1	1920.2
17.5°	3711.3	3671.7	3533.9	3081.0	2681.4	2242.3	1916.8	1853.1	1958.1	2087.3	2061.5
20°	3874.9	3830.1	3661.4	3155.0	2674.5	2109.7	1763.5	1782.5	1930.6	2078.7	2092.5
22.5°	4066.1	4019.6	3823.2	3249.8	2669.4	1951.2	1630.9	1720.5	1878.9	2004.6	2028.7
25°	4319.2	4264.1	4048.9	3389.3	2683.2	1806.6	1536.2	1660.2	1791.1	1904.7	1918.5
27.5°	4653.3	4582.7	4308.9	3561.5	2712.4	1692.9	1494.9	1577.5	1679.1	1780.7	1792.8
30°	5089.0	4999.5	4606.8	3711.3	2698.7	1613.7	1467.3	1494.9	1555.1	1637.8	1639.5
32.5°	5598.8	5476.5	4940.9	3840.5	2579.8	1555.1	1429.4	1410.5	1424.2	1488.0	1500.0
35°	6198.1	6039.7	5309.5	3962.7	2362.8	1441.5	1360.5	1296.8	1291.6	1322.6	1351.9
37.5°	6885.3	6695.8	5774.5	4119.5	2106.2	1322.6	1258.9	1195.2	1167.6	1183.1	1227.9
40°	7519.0	7308.9	6260.1	4308.9	1844.5	1215.9	1140.1	1074.6	1041.9	1047.1	1102.2
42.5°	8263.0	8046.0	6854.3	4556.9	1627.5	1143.5	1016.1	948.9	905.9	930.0	993.7
45°	9392.8	9146.5	7720.5	4772.2	1455.2	1126.3	907.6	812.9	792.2	833.5	909.3
47.5°	10935.9	10634.5	8910.6	4903.1	1308.9	1141.8	831.8	702.7	707.8	754.3	830.1
50°	12466.9	12141.4	10286.6	4730.8	1188.3	1110.8	793.9	616.5	649.3	690.6	759.5
52.5°	13519.1	13095.5	10956.5	4233.1	1078.1	993.7	790.5	535.6	597.6	611.4	669.9
55°	13560.5	13038.6	10613.8	3337.6	928.3	838.7	754.3	468.4	540.8	545.9	595.9
57.5°	11886.5	11414.6	9275.7	2292.2	824.9	614.8	601.0	409.9	444.3	487.4	518.4
60°	9043.2	8641.9	6937.0	1050.5	626.9	390.9	411.6	353.0	332.4	396.1	427.1
62.5°	5538.5	5281.9	4160.8	465.0	399.5	208.4	249.7	280.7	249.7	273.8	299.7
65°	2199.2	2085.6	1579.2	198.1	163.6	105.1	113.7	163.6	175.7	192.9	217.0
67.5°	382.3	361.7	265.2	87.8	67.2	63.7	55.1	75.8	106.8	118.8	137.8
70°	49.9	48.2	43.1	36.2	34.4	31.0	24.1	48.2	72.3	75.8	87.8
72.5°	12.1	10.3	10.3	8.6	10.3	3.4	3.4	25.8	51.7	53.4	62.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	32.7	36.2	43.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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	0.0



REPORT NUMBER: P639854

CATALOG NUMBER: GWS-SA5C-760-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2188.9	2188.9	2188.9	2188.9	2188.9	2188.9	2188.9	2188.9	2188.9	2188.9	2188.9
2.5°	2002.9	1968.5	1956.4	1939.2	1916.8	1923.7	1892.7	1882.3	1897.8	1918.5	1913.3
5°	1820.3	1782.5	1756.6	1717.0	1710.1	1694.6	1684.3	1670.5	1687.7	1711.8	1717.0
7.5°	1675.7	1643.0	1617.1	1605.1	1596.5	1589.6	1568.9	1558.6	1558.6	1568.9	1577.5
10°	1613.7	1589.6	1584.4	1587.9	1601.6	1599.9	1581.0	1567.2	1550.0	1541.4	1551.7
12.5°	1699.8	1660.2	1653.3	1655.0	1672.2	1670.5	1649.9	1632.6	1629.2	1632.6	1665.4
15°	1846.2	1785.9	1741.1	1732.5	1741.1	1737.7	1722.2	1711.8	1717.0	1767.0	1822.1
17.5°	1977.1	1884.1	1803.1	1772.1	1770.4	1765.2	1749.7	1746.3	1772.1	1865.1	1946.1
20°	2015.0	1923.7	1808.3	1768.7	1760.1	1754.9	1737.7	1742.8	1775.6	1887.5	1956.4
22.5°	1965.0	1877.2	1756.6	1717.0	1710.1	1708.4	1691.2	1698.1	1725.6	1823.8	1880.6
25°	1870.3	1796.2	1670.5	1636.1	1636.1	1632.6	1617.1	1620.6	1637.8	1723.9	1779.0
27.5°	1754.9	1684.3	1579.2	1544.8	1550.0	1555.1	1536.2	1531.0	1544.8	1625.7	1658.5
30°	1622.3	1572.4	1489.7	1458.7	1457.0	1477.6	1451.8	1444.9	1463.9	1527.6	1534.5
32.5°	1493.1	1469.0	1410.5	1386.4	1388.1	1391.5	1377.7	1377.7	1395.0	1429.4	1427.7
35°	1367.4	1351.9	1341.6	1324.4	1322.6	1315.7	1315.7	1319.2	1338.1	1350.2	1327.8
37.5°	1246.9	1262.4	1274.4	1257.2	1243.4	1243.4	1243.4	1258.9	1276.1	1271.0	1233.1
40°	1140.1	1172.8	1210.7	1191.8	1159.0	1157.3	1164.2	1190.0	1215.9	1184.9	1150.4
42.5°	1048.8	1090.1	1143.5	1133.2	1097.0	1091.9	1097.0	1129.8	1150.4	1110.8	1072.9
45°	959.3	1010.9	1074.6	1074.6	1035.0	1029.9	1031.6	1074.6	1086.7	1040.2	992.0
47.5°	883.5	940.3	1007.5	1007.5	974.8	964.4	973.0	1017.8	1026.4	961.0	916.2
50°	811.1	873.1	947.2	942.0	919.6	911.0	926.5	974.8	964.4	892.1	845.6
52.5°	719.9	785.3	886.9	892.1	880.0	881.8	900.7	931.7	902.4	814.6	775.0
55°	637.2	704.4	806.0	833.5	833.5	831.8	840.4	864.5	840.4	735.4	687.2
57.5°	547.7	604.5	688.9	695.8	700.9	682.0	694.0	726.8	714.7	625.2	597.6
60°	449.5	497.7	545.9	551.1	528.7	489.1	511.5	549.4	558.0	490.8	459.8
62.5°	318.6	365.1	421.9	421.9	399.5	359.9	389.2	421.9	409.9	341.0	322.0
65°	237.7	280.7	323.8	342.7	323.8	296.2	318.6	342.7	323.8	266.9	239.4
67.5°	153.3	182.6	208.4	223.9	227.3	223.9	234.2	227.3	204.9	167.1	151.6
70°	93.0	108.5	122.3	136.1	146.4	151.6	156.7	141.2	118.8	98.2	93.0
72.5°	67.2	80.9	93.0	103.3	115.4	118.8	118.8	108.5	87.8	68.9	63.7
75°	46.5	58.6	68.9	75.8	86.1	89.6	89.6	80.9	65.4	49.9	44.8
77.5°	1.7	12.1	12.1	10.3	13.8	17.2	17.2	20.7	18.9	13.8	12.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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	0.0



REPORT NUMBER: P639854

CATALOG NUMBER: GWS-SA5C-760-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2188.9	2188.9	2188.9	2188.9	2188.9	2188.9	2188.9	2188.9	2188.9	2188.9	2188.9
2.5°	1923.7	1985.7	2002.9	2066.6	2123.5	2180.3	2249.2	2290.5	2352.5	2395.6	2419.7
5°	1734.2	1785.9	1847.9	1942.6	2040.8	2149.3	2280.2	2393.8	2536.8	2641.8	2676.3
7.5°	1596.5	1663.6	1736.0	1854.8	1989.1	2133.8	2318.1	2504.1	2722.8	2865.7	2957.0
10°	1570.6	1639.5	1736.0	1853.1	1994.3	2159.6	2385.2	2626.3	2900.2	3074.1	3177.4
12.5°	1694.6	1768.7	1810.0	1863.4	1970.2	2154.4	2443.8	2750.3	3072.4	3261.8	3372.0
15°	1877.2	1942.6	1875.5	1808.3	1877.2	2099.3	2476.5	2853.7	3223.9	3442.6	3556.3
17.5°	2002.9	2008.1	1861.7	1718.7	1737.7	1999.5	2488.6	2957.0	3385.8	3614.9	3733.7
20°	1990.8	1949.5	1801.4	1643.0	1584.4	1870.3	2474.8	3048.3	3549.4	3788.8	3905.9
22.5°	1897.8	1849.6	1723.9	1568.9	1455.2	1717.0	2450.7	3130.9	3699.2	3971.4	4081.6
25°	1785.9	1734.2	1630.9	1494.9	1372.6	1568.9	2431.7	3244.6	3888.7	4209.0	4295.1
27.5°	1655.0	1610.2	1522.4	1424.2	1338.1	1457.0	2426.6	3394.4	4117.7	4498.3	4558.6
30°	1527.6	1486.2	1417.4	1360.5	1324.4	1391.5	2409.3	3554.6	4391.6	4830.7	4896.2
32.5°	1405.3	1364.0	1320.9	1312.3	1314.0	1367.4	2350.8	3713.0	4717.1	5312.9	5361.2
35°	1300.2	1252.0	1234.8	1255.5	1293.4	1326.1	2185.4	3843.9	5066.7	5838.2	5877.8
37.5°	1200.4	1152.1	1150.4	1200.4	1241.7	1262.4	1990.8	3973.1	5538.5	6372.1	6422.0
40°	1109.1	1060.9	1078.1	1138.4	1171.1	1181.4	1754.9	4169.4	6038.0	6935.2	6907.7
42.5°	1031.6	981.6	992.0	1069.5	1098.8	1126.3	1537.9	4333.0	6518.5	7469.1	7460.5
45°	955.8	917.9	911.0	995.4	1021.3	1131.5	1379.5	4458.7	7136.7	8149.4	8163.1
47.5°	881.8	852.5	854.2	890.4	954.1	1157.3	1245.1	4541.4	8034.0	9227.5	8988.1
50°	814.6	792.2	811.1	769.8	911.0	1124.6	1129.8	4524.2	9036.3	10260.8	9780.3
52.5°	740.5	735.4	744.0	644.1	842.1	992.0	1021.3	4295.1	9506.4	10966.9	10693.0
55°	664.8	663.0	594.2	514.9	704.4	792.2	874.9	3583.9	9490.9	11342.3	11674.7
57.5°	575.2	561.4	451.2	420.2	547.7	551.1	797.4	2347.3	8411.1	10443.3	11132.2
60°	435.7	425.4	330.7	341.0	382.3	353.0	635.5	1169.4	6286.0	8135.6	8912.3
62.5°	301.4	287.6	246.3	263.5	246.3	201.5	389.2	578.7	3807.7	5137.3	5841.6
65°	220.4	204.9	168.8	144.7	115.4	115.4	148.1	222.2	1474.2	2183.7	2633.2
67.5°	136.1	129.2	99.9	72.3	70.6	75.8	77.5	110.2	237.7	378.9	463.3
70°	87.8	80.9	67.2	46.5	43.1	44.8	46.5	51.7	60.3	65.4	79.2
72.5°	60.3	56.8	48.2	25.8	20.7	22.4	24.1	24.1	29.3	27.6	32.7
75°	43.1	39.6	34.4	12.1	6.9	8.6	10.3	8.6	10.3	6.9	8.6
77.5°	12.1	12.1	8.6	1.7	0.0	1.7	3.4	3.4	1.7	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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	0.0



REPORT NUMBER: P639854

CATALOG NUMBER: GWS-SA5C-760-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2188.9	2188.9	2188.9	2188.9	2188.9	2188.9	2188.9	2188.9	2188.9	2188.9
2.5°	2481.7	2521.3	2536.8	2514.4	2533.3	2502.3	2490.3	2443.8	2440.3	2431.7
5°	2815.8	2905.3	2958.7	2991.4	2953.5	2912.2	2850.2	2743.4	2710.7	2690.0
7.5°	3144.7	3284.2	3375.5	3418.5	3408.2	3323.8	3211.9	3032.8	2969.0	2938.0
10°	3430.6	3601.1	3711.3	3764.7	3742.3	3668.2	3508.1	3284.2	3199.8	3180.9
12.5°	3630.4	3787.1	3862.9	3909.4	3911.1	3881.8	3730.2	3504.6	3404.8	3380.6
15°	3756.1	3823.2	3825.0	3852.5	3900.7	3966.2	3895.6	3695.8	3589.0	3552.9
17.5°	3835.3	3761.2	3685.5	3692.4	3771.6	3945.5	4017.9	3864.6	3750.9	3711.3
20°	3892.1	3657.9	3516.7	3518.4	3599.4	3862.9	4102.2	4028.2	3911.1	3874.9
22.5°	3928.3	3566.6	3365.1	3360.0	3446.1	3764.7	4179.7	4222.8	4107.4	4066.1
25°	4002.4	3523.6	3273.9	3303.1	3378.9	3733.7	4284.8	4481.1	4374.3	4319.2
27.5°	4135.0	3566.6	3265.3	3332.4	3418.5	3825.0	4467.3	4825.6	4715.3	4653.3
30°	4364.0	3728.5	3397.9	3490.9	3594.2	4064.4	4773.9	5306.0	5147.6	5089.0
32.5°	4732.6	4064.4	3807.7	4007.5	4107.4	4457.0	5233.7	5845.1	5715.9	5598.8
35°	5240.6	4830.7	4801.4	5266.4	5242.3	5201.0	5798.6	6506.4	6311.8	6198.1
37.5°	5939.8	6063.8	6280.8	6742.3	6726.8	6411.7	6540.8	7131.6	7031.7	6885.3
40°	6813.0	7076.4	7445.0	8106.3	7899.6	7503.5	7451.9	7772.2	7691.3	7519.0
42.5°	7327.9	7782.5	8485.2	9079.3	8914.0	8221.7	8163.1	8628.1	8450.7	8263.0
45°	7567.3	8357.8	9735.5	10539.8	10038.6	8698.7	8676.4	9744.1	9644.2	9392.8
47.5°	7677.5	8938.1	11199.4	12416.9	11480.1	9117.2	9036.3	11363.0	11232.1	10935.9
50°	7799.8	9738.9	12962.9	14592.1	13221.2	9590.8	9649.4	12871.6	12816.5	12466.9
52.5°	8068.4	10586.3	15134.5	17078.9	15332.6	10333.1	10701.6	14294.1	13922.1	13519.1
55°	8471.4	11509.3	17394.0	19619.1	17487.0	11330.2	11840.0	15050.2	14006.5	13560.5
57.5°	8025.4	11740.1	18732.2	21392.9	18442.8	11333.7	10877.3	13739.6	12318.8	11886.5
60°	6368.6	10922.1	18217.2	21008.9	17628.3	10064.4	8328.5	10727.5	9332.5	9043.2
62.5°	4305.5	9160.3	16037.0	17767.8	15088.0	7916.9	5412.8	6976.6	5777.9	5538.5
65°	2359.4	6833.6	12957.7	13441.6	11809.0	5529.9	2784.8	3027.6	2306.0	2199.2
67.5°	651.0	4756.7	9534.0	8917.5	8285.4	3601.1	719.9	540.8	385.8	382.3
70°	163.6	3146.4	5712.5	5888.1	5080.4	2306.0	137.8	65.4	51.7	49.9
72.5°	68.9	1353.6	2710.7	3115.4	2600.5	1067.8	49.9	18.9	15.5	12.1
75°	8.6	108.5	230.8	349.6	239.4	115.4	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	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)