

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: P636891

Luminaire Tested: GWS-SA4B-760-U-SLR-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636891  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-41)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4B-760-U-SLR-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR RIGHT OPTICS  
Light Source: (64) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13826.8 lumens  
Efficiency: N/A  
Efficacy: 146.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 94.4  
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

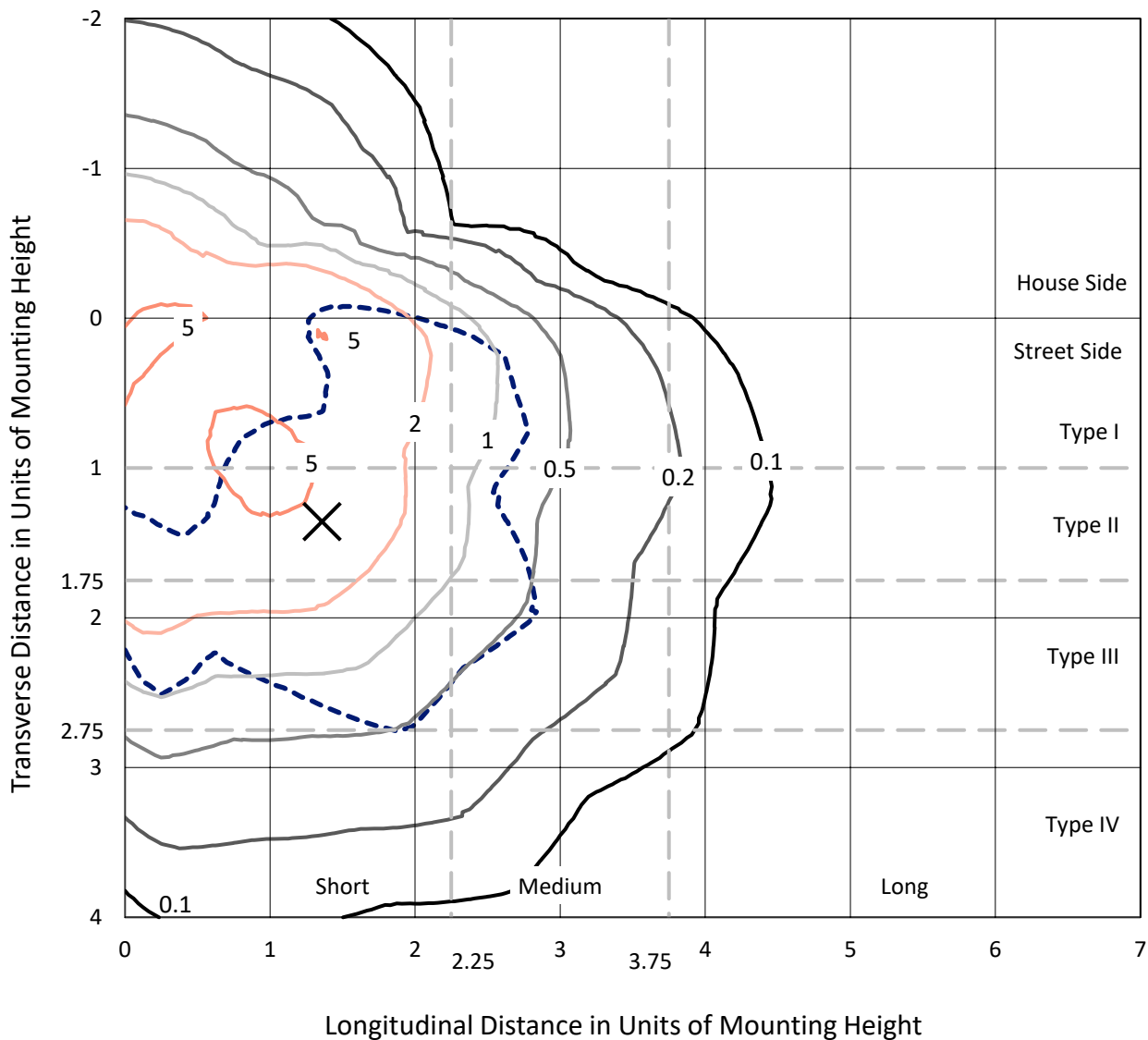


REPORT NUMBER: P636891

CATALOG NUMBER: GWS-SA4B-760-U-SLR-W

### Iso-Footcandle Lines of Horizontal Illumination

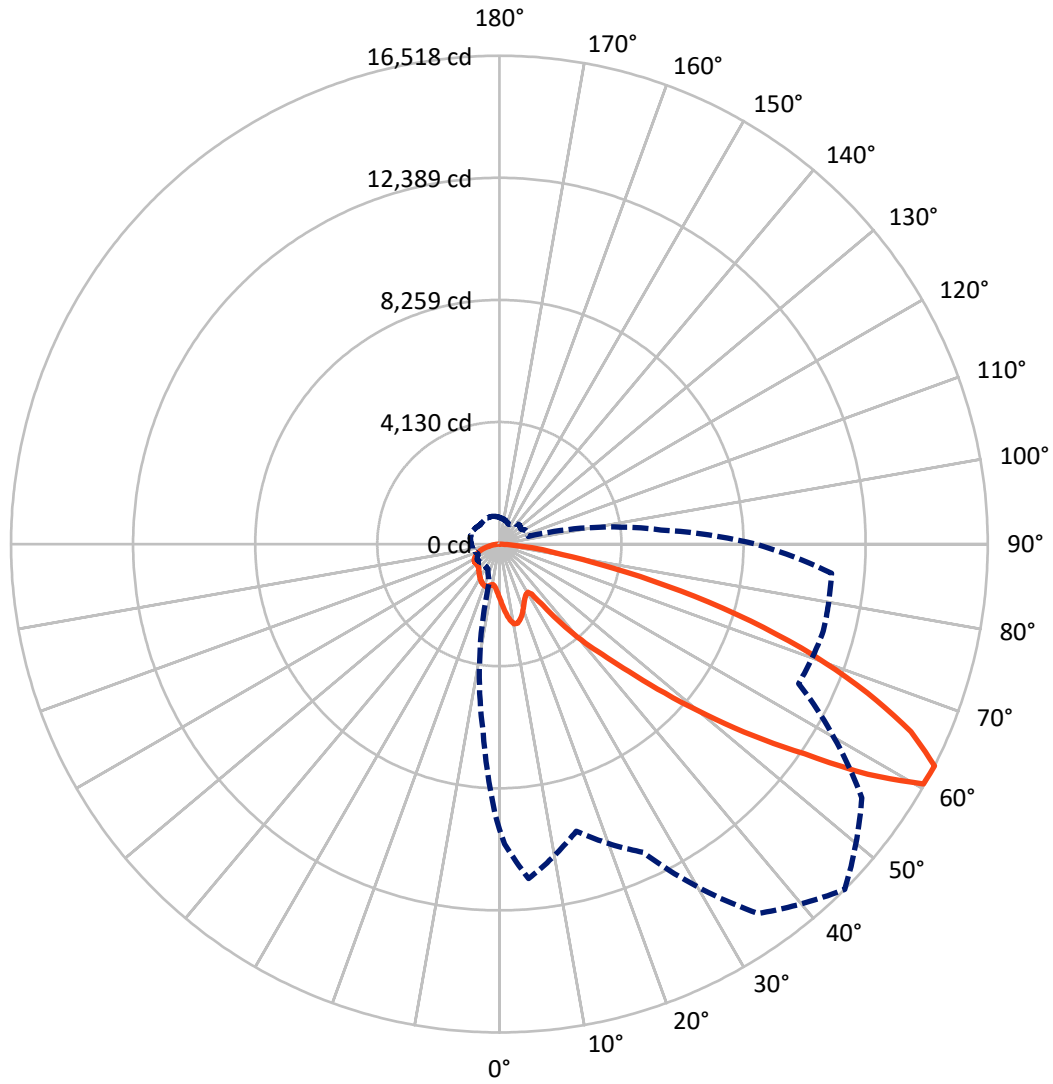
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.5 fc  
 Type III - Short - N/A

REPORT NUMBER: P636891  
CATALOG NUMBER: GWS-SA4B-760-U-SLR-W

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P636891

CATALOG NUMBER: GWS-SA4B-760-U-SLR-W

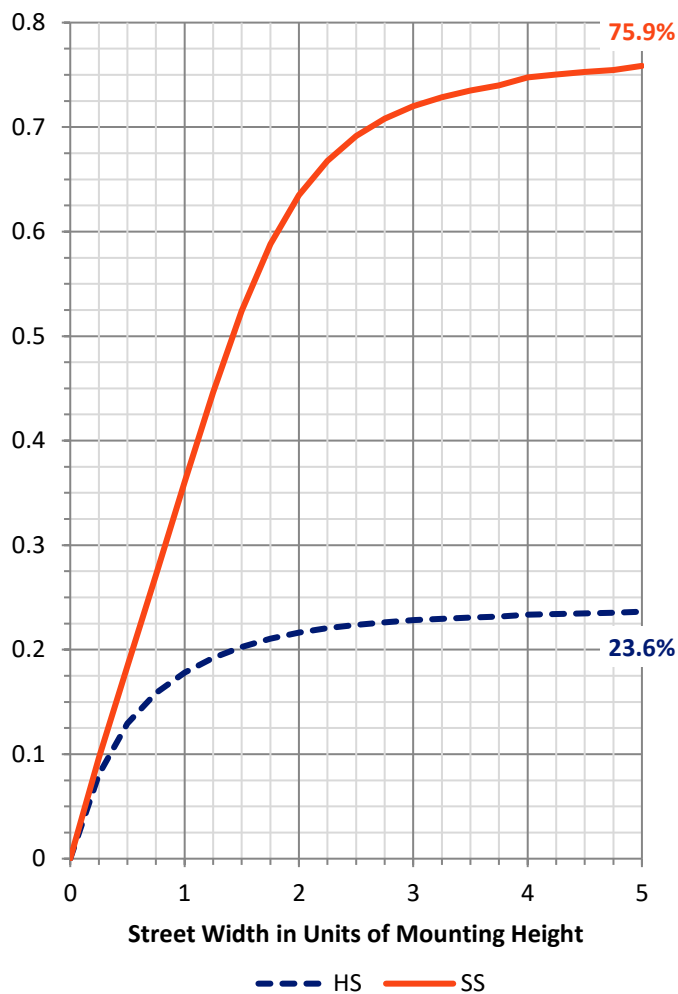
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3299.3	0.0	3299.3
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	10527.5	0.0	10527.5
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	13826.8	0.0	13826.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	179.2	1.3
10°-20°	561.8	4.1
20°-30°	872.7	6.3
30°-40°	1184.8	8.6
40°-50°	1877.8	13.6
50°-60°	3312.5	24.0
60°-70°	3685.7	26.7
70°-80°	1869.2	13.5
80°-90°	283.0	2.0
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°	13826.8	100.0
0°-180°	13826.8	100.0

**Coefficient of Utilization**



REPORT NUMBER: P636891

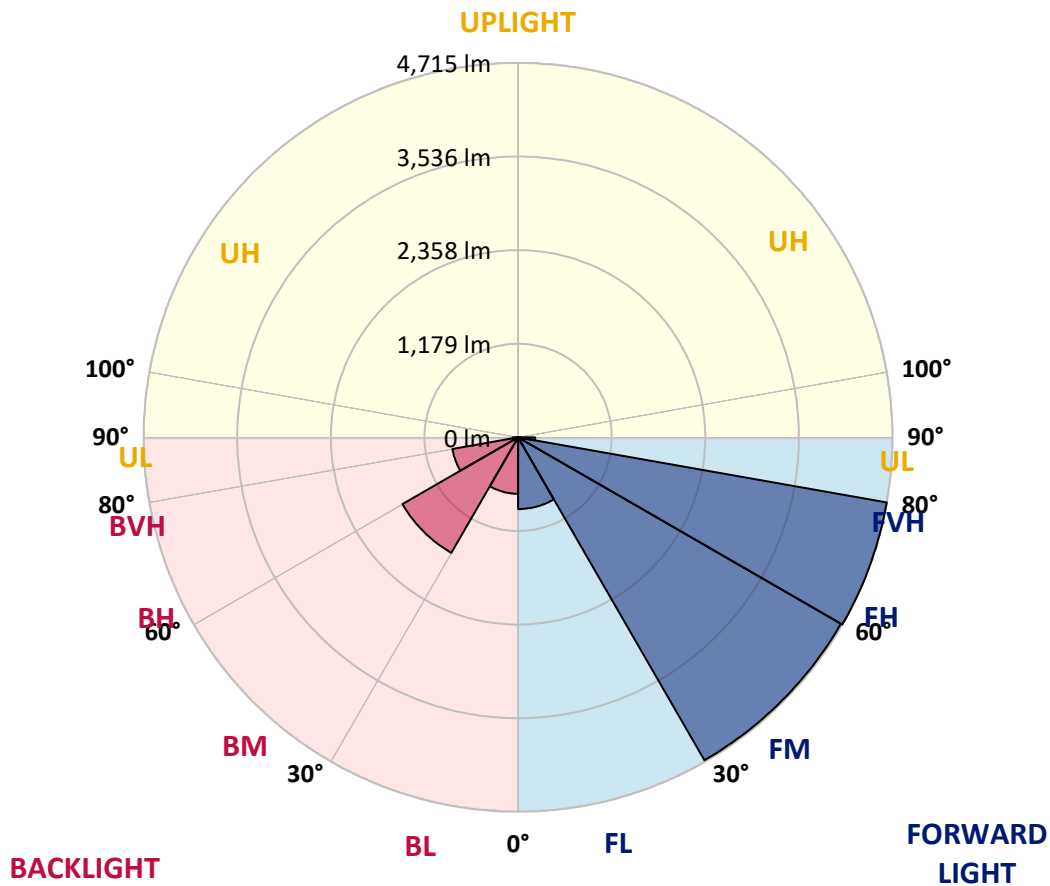
CATALOG NUMBER: GWS-SA4B-760-U-SLR-W

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	902.8	6.5			
FM (30°-60°)	4694.8	34.0			
FH (60°-80°)	4715.1	34.1			G2/5000
FVH (80°-90°)	214.8	1.6			G2/225
BL (0°-30°)	710.9	5.1	B2/1000		
BM (30°-60°)	1680.4	12.2	B2/2500		
BH (60°-80°)	839.8	6.1	B2/1000		G2/1000
BVH (80°-90°)	68.2	0.5			G1/100
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: P636891  
 CATALOG NUMBER: GWS-SA4B-760-U-SLR-W

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1
2.5°	1972.2	1971.2	1991.1	2021.4	2049.7	2062.3	2083.2	2081.1	2064.4	2042.4	2035.0
5°	2127.2	2131.4	2165.9	2232.9	2307.2	2338.6	2352.2	2347.0	2316.6	2277.9	2209.9
7.5°	2267.4	2274.8	2328.2	2428.7	2520.8	2562.6	2596.1	2589.9	2545.9	2473.7	2373.2
10°	2370.0	2378.4	2442.3	2560.6	2663.1	2699.8	2742.7	2744.8	2706.1	2608.7	2506.1
12.5°	2472.6	2481.0	2540.7	2648.5	2715.5	2716.5	2741.7	2755.3	2757.4	2712.3	2609.8
15°	2579.4	2586.7	2641.2	2701.9	2698.7	2640.1	2640.1	2666.3	2723.9	2756.3	2685.1
17.5°	2670.5	2679.9	2721.8	2701.9	2608.7	2503.0	2490.4	2523.9	2624.4	2749.0	2741.7
20°	2745.8	2753.2	2776.2	2644.3	2474.7	2336.5	2312.5	2351.2	2487.3	2704.0	2784.6
22.5°	2818.1	2822.3	2809.7	2568.9	2330.3	2172.2	2142.9	2183.7	2330.3	2624.4	2821.2
25°	2903.9	2899.7	2840.1	2490.4	2198.3	2042.4	2012.0	2058.1	2210.9	2518.7	2861.0
27.5°	3003.4	2987.7	2866.2	2405.6	2096.8	1946.1	1925.1	1974.3	2116.7	2421.3	2892.4
30°	3088.2	3057.8	2870.4	2330.3	2044.5	1905.2	1892.7	1938.7	2070.6	2355.4	2932.2
32.5°	3182.4	3140.5	2894.5	2310.4	2073.8	2003.6	2020.4	2023.5	2083.2	2336.5	2991.8
35°	3317.4	3263.0	2960.4	2367.9	2375.3	2493.6	2554.3	2472.6	2272.7	2378.4	3104.9
37.5°	3521.5	3452.5	3094.4	2617.1	2998.1	3263.0	3409.5	3223.2	2848.4	2536.5	3275.5
40°	3769.6	3681.7	3266.1	3077.7	3580.2	4004.1	4264.8	3991.6	3440.9	2931.1	3515.3
42.5°	4116.1	4024.0	3599.0	3529.9	4119.3	4750.5	5090.8	4683.5	3963.3	3440.9	3899.5
45°	4720.2	4631.2	4209.3	3983.2	4750.5	5669.6	6147.0	5580.7	4494.1	3952.8	4617.6
47.5°	5836.1	5731.4	5115.9	4485.7	5470.8	6863.0	7530.9	6706.0	5045.7	4539.1	5823.5
50°	7176.0	7075.5	6253.8	5080.3	6266.3	8139.1	9067.7	8028.2	5681.2	5252.0	7265.0
52.5°	8788.2	8769.3	7877.4	5831.9	7094.4	9500.0	10773.0	9492.7	6377.3	6211.9	8898.1
55°	10241.2	10425.4	9939.7	6978.2	8164.3	11209.5	12526.4	11090.2	7321.6	7798.9	10810.6
57.5°	11024.2	11519.4	12265.7	9316.8	9719.8	13252.9	14690.2	13040.4	8944.1	10441.1	12584.0
60°	10507.1	11068.2	12420.7	11077.6	11262.9	14890.2	16476.1	14679.7	10537.4	12275.2	12483.5
62.5°	9646.6	10150.1	11352.9	10049.6	11501.6	15250.3	16518.0	14965.5	11170.8	11344.5	11276.5
65°	8625.9	9133.6	10407.6	8772.5	10742.6	14395.0	15299.5	14124.9	10032.9	10249.5	10274.7
67.5°	7270.3	7739.2	9036.3	7800.0	9792.1	13139.9	13428.8	12927.3	9239.4	9584.8	9223.6
70°	5432.0	5854.9	7000.2	6338.6	8254.3	11504.7	11271.3	11345.6	8348.5	8691.9	7704.7
72.5°	3712.1	4030.3	5012.2	4980.8	6320.8	9210.0	8884.5	9589.0	6973.0	7428.3	5873.8
75°	2596.1	2844.2	3623.1	3935.0	4777.7	6826.4	6327.1	7177.1	5445.6	6095.7	4285.7
77.5°	1593.3	1757.6	2288.4	2915.4	3073.5	4672.0	3929.8	5400.6	3824.1	4445.9	2858.9
80°	796.6	876.2	1111.7	1833.0	2038.2	2753.2	2170.1	3135.3	2587.8	2753.2	1581.8
82.5°	240.8	265.9	325.6	696.1	1056.3	1584.9	1282.4	1821.5	1413.2	1290.7	622.9
85°	63.9	72.2	90.0	206.2	370.6	568.4	433.4	882.5	677.3	476.3	234.5
87.5°	5.2	5.2	4.2	4.2	2.1	0.0	0.0	62.8	126.7	72.2	40.8
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: P636891  
 CATALOG NUMBER: GWS-SA4B-760-U-SLR-W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1
2.5°	1998.4	1994.2	1951.3	1919.9	1883.3	1847.7	1811.0	1778.6	1741.9	1705.3	1694.8
5°	2159.6	2130.3	2039.2	1962.8	1887.4	1821.5	1763.9	1704.2	1656.1	1609.0	1591.2
7.5°	2302.0	2250.7	2118.8	2002.6	1897.9	1816.3	1731.5	1644.6	1576.5	1509.5	1492.8
10°	2430.7	2362.7	2196.3	2049.7	1933.5	1840.3	1740.9	1624.7	1526.3	1444.6	1422.6
12.5°	2526.0	2451.7	2263.3	2094.7	1962.8	1858.1	1759.7	1657.1	1553.5	1447.8	1423.7
15°	2601.4	2523.9	2318.7	2129.3	1963.9	1828.8	1733.6	1698.0	1665.5	1561.9	1517.9
17.5°	2662.1	2580.4	2366.9	2150.2	1935.6	1739.8	1657.1	1709.5	1792.2	1727.3	1644.6
20°	2717.6	2634.9	2403.5	2164.9	1872.8	1617.4	1571.3	1682.3	1806.8	1804.7	1730.4
22.5°	2778.3	2697.7	2456.9	2173.2	1784.9	1492.8	1520.0	1642.5	1744.0	1774.4	1728.3
25°	2855.8	2784.6	2531.2	2192.1	1685.4	1406.9	1482.3	1591.2	1676.0	1683.3	1656.1
27.5°	2945.8	2892.4	2642.2	2236.0	1589.1	1363.0	1438.3	1519.0	1596.4	1599.6	1567.1
30°	3044.2	3008.6	2744.8	2272.7	1516.9	1349.4	1381.8	1446.7	1495.9	1504.3	1476.0
32.5°	3169.8	3138.4	2835.9	2248.6	1473.9	1346.2	1329.5	1363.0	1403.8	1403.8	1381.8
35°	3342.5	3298.6	2932.2	2156.5	1421.6	1333.7	1274.0	1283.4	1301.2	1304.4	1291.8
37.5°	3587.5	3515.3	3029.5	1974.3	1335.8	1288.7	1210.1	1198.6	1204.9	1213.3	1210.1
40°	3891.1	3772.8	3171.9	1755.5	1233.2	1201.8	1144.2	1122.2	1117.0	1133.7	1140.0
42.5°	4273.2	4092.1	3324.7	1551.4	1140.0	1102.3	1066.7	1047.9	1039.5	1067.8	1084.5
45°	4883.5	4585.1	3471.3	1349.4	1087.7	1017.5	993.4	979.8	984.0	1017.5	1038.5
47.5°	5937.6	5337.8	3610.5	1221.7	1083.5	956.8	927.5	930.6	942.1	977.7	1002.9
50°	7271.3	6345.9	3703.7	1168.3	1096.0	920.2	881.4	898.2	916.0	950.5	979.8
52.5°	8629.0	7284.9	3592.7	1139.0	1095.0	921.2	838.5	888.8	897.1	931.7	963.1
55°	9562.8	7389.6	3103.9	1093.9	1078.2	963.1	805.0	884.6	889.8	921.2	949.5
57.5°	9918.7	7031.6	2366.9	1106.5	1028.0	995.5	790.4	855.3	892.9	920.2	949.5
60°	9488.5	6356.4	1438.3	1139.0	947.4	993.4	799.8	801.9	866.8	912.8	942.1
62.5°	8677.2	5489.6	1010.2	1046.8	888.8	938.0	821.8	739.1	820.7	876.2	902.4
65°	7747.6	4470.0	770.5	901.3	860.5	852.1	829.1	683.6	757.9	812.3	835.4
67.5°	6779.3	3474.4	626.0	672.1	777.8	770.5	757.9	634.4	683.6	722.3	748.5
70°	5559.7	2430.7	528.7	504.6	666.8	690.9	662.6	572.6	588.3	628.1	649.0
72.5°	4066.9	1514.8	434.4	416.6	536.0	604.0	589.4	504.6	511.9	549.6	566.3
75°	2924.9	866.8	348.6	343.4	409.3	517.1	487.8	434.4	442.8	471.1	482.6
77.5°	1859.2	482.6	269.0	276.4	293.1	386.3	416.6	371.6	371.6	388.4	397.8
80°	995.5	276.4	196.8	199.9	205.2	295.2	328.7	287.9	287.9	276.4	287.9
82.5°	406.2	159.1	135.0	125.6	137.1	202.0	230.3	183.2	191.6	172.7	176.9
85°	134.0	79.6	67.0	66.0	64.9	89.0	111.0	91.1	108.9	69.1	72.2
87.5°	17.8	14.7	8.4	6.3	7.3	3.1	6.3	7.3	7.3	5.2	5.2
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: P636891  
 CATALOG NUMBER: GWS-SA4B-760-U-SLR-W

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1
2.5°	1687.5	1679.1	1648.8	1656.1	1650.9	1642.5	1650.9	1635.2	1647.7	1651.9	1678.1
5°	1577.6	1557.7	1528.4	1513.7	1510.6	1502.2	1503.3	1495.9	1498.0	1515.8	1545.1
7.5°	1479.2	1460.3	1437.3	1426.8	1417.4	1408.0	1406.9	1405.9	1414.3	1430.0	1458.2
10°	1408.0	1397.5	1388.1	1392.3	1388.1	1383.9	1376.6	1376.6	1390.2	1418.5	1453.0
12.5°	1408.0	1405.9	1408.0	1420.6	1419.5	1420.6	1411.1	1416.4	1454.1	1502.2	1551.4
15°	1483.4	1466.6	1466.6	1472.9	1470.8	1470.8	1470.8	1492.8	1578.6	1652.9	1705.3
17.5°	1575.5	1526.3	1505.3	1502.2	1501.2	1501.2	1505.3	1552.5	1686.4	1765.0	1795.3
20°	1639.3	1546.2	1511.6	1498.0	1499.1	1501.2	1513.7	1578.6	1726.2	1766.0	1758.7
22.5°	1650.9	1530.5	1488.6	1468.7	1471.8	1473.9	1492.8	1561.9	1671.8	1678.1	1663.4
25°	1597.5	1486.5	1441.5	1425.8	1430.0	1428.9	1445.7	1495.9	1574.4	1572.3	1564.0
27.5°	1517.9	1416.4	1382.9	1372.4	1379.7	1371.4	1376.6	1415.3	1476.0	1473.9	1470.8
30°	1436.3	1348.3	1318.0	1312.7	1322.2	1309.6	1310.6	1343.1	1385.0	1382.9	1381.8
32.5°	1354.6	1280.3	1253.1	1253.1	1262.5	1248.9	1251.0	1279.2	1307.5	1299.1	1299.1
35°	1277.1	1224.8	1202.8	1198.6	1206.0	1196.5	1200.7	1226.9	1237.4	1225.8	1218.5
37.5°	1209.1	1186.1	1164.1	1149.4	1150.5	1151.5	1164.1	1184.0	1177.7	1160.9	1151.5
40°	1146.3	1146.3	1125.3	1098.1	1095.0	1102.3	1123.3	1145.2	1127.4	1108.6	1097.1
42.5°	1101.3	1110.7	1090.8	1063.6	1057.3	1069.9	1092.9	1108.6	1087.7	1066.7	1051.0
45°	1059.4	1082.4	1068.8	1038.5	1030.1	1044.7	1074.1	1080.3	1052.1	1032.2	1020.7
47.5°	1030.1	1061.5	1052.1	1022.8	1010.2	1031.1	1061.5	1060.4	1024.8	1003.9	994.5
50°	1009.1	1048.9	1047.9	1022.8	1009.1	1035.3	1062.5	1048.9	1010.2	988.2	978.8
52.5°	992.4	1047.9	1055.2	1040.6	1031.1	1054.2	1070.9	1044.7	999.7	976.7	969.4
55°	985.1	1052.1	1057.3	1043.7	1035.3	1056.3	1070.9	1053.1	999.7	978.8	972.5
57.5°	987.2	1046.8	1047.9	1029.0	1014.4	1040.6	1063.6	1058.3	1011.2	987.2	979.8
60°	974.6	1018.6	1020.7	991.4	974.6	1006.0	1046.8	1043.7	1006.0	980.9	967.3
62.5°	932.7	971.5	972.5	945.3	921.2	966.2	1011.2	1010.2	975.6	950.5	934.8
65°	862.6	903.4	913.9	887.7	868.9	917.0	964.1	962.0	927.5	904.5	888.8
67.5°	775.7	819.7	839.6	821.8	814.4	858.4	902.4	901.3	873.1	851.1	837.5
70°	670.0	706.6	740.1	740.1	734.9	785.1	832.2	828.0	801.9	785.1	774.7
72.5°	582.0	610.3	620.8	631.2	646.9	699.3	739.1	742.2	723.4	715.0	723.4
75°	495.2	512.9	522.4	514.0	541.2	595.6	648.0	653.2	633.3	619.7	622.9
77.5°	407.2	427.1	436.5	417.7	415.6	484.7	548.5	560.1	543.3	522.4	528.7
80°	294.2	320.3	336.0	323.5	319.3	349.6	437.6	450.1	434.4	417.7	427.1
82.5°	180.1	194.7	198.9	211.5	237.6	250.2	281.6	323.5	312.0	297.3	323.5
85°	71.2	84.8	94.2	106.8	124.6	147.6	173.8	207.3	188.4	182.1	214.6
87.5°	4.2	1.0	0.0	2.1	17.8	34.5	74.3	102.6	85.8	92.1	111.0
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: P636891  
 CATALOG NUMBER: GWS-SA4B-760-U-SLR-W

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1
2.5°	1699.0	1726.2	1762.9	1793.2	1832.0	1868.6	1906.3	1944.0	1963.9	1972.2
5°	1578.6	1628.9	1687.5	1752.4	1827.8	1907.3	1987.9	2070.6	2123.0	2127.2
7.5°	1506.4	1578.6	1659.2	1740.9	1834.1	1944.0	2071.7	2199.4	2252.8	2267.4
10°	1529.4	1610.0	1673.9	1750.3	1852.9	1990.0	2140.8	2290.5	2352.2	2370.0
12.5°	1621.5	1637.2	1657.1	1727.3	1852.9	2029.8	2212.0	2389.9	2455.9	2472.6
15°	1698.0	1622.6	1587.0	1661.3	1827.8	2064.4	2287.3	2484.1	2563.7	2579.4
17.5°	1704.2	1574.4	1497.0	1564.0	1783.8	2088.4	2359.6	2588.8	2655.8	2670.5
20°	1640.4	1523.1	1422.6	1463.5	1724.1	2098.9	2411.9	2665.2	2731.2	2745.8
22.5°	1568.2	1481.3	1372.4	1370.3	1651.9	2110.4	2474.7	2737.5	2808.7	2818.1
25°	1500.1	1423.7	1331.6	1302.3	1568.2	2132.4	2559.5	2846.3	2900.8	2903.9
27.5°	1420.6	1361.9	1299.1	1270.9	1494.9	2174.3	2685.1	2976.1	3008.6	3003.4
30°	1348.3	1304.4	1276.1	1267.7	1448.8	2205.7	2804.5	3103.9	3106.0	3088.2
32.5°	1271.9	1255.2	1255.2	1282.4	1411.1	2198.3	2901.8	3228.4	3208.5	3182.4
35°	1203.9	1207.0	1229.0	1292.8	1348.3	2125.1	2995.0	3384.4	3355.1	3317.4
37.5°	1139.0	1163.0	1194.4	1256.2	1265.6	2016.2	3103.9	3605.3	3568.7	3521.5
40°	1083.5	1120.1	1156.8	1187.1	1177.7	1861.3	3255.7	3864.9	3824.1	3769.6
42.5°	1039.5	1075.1	1115.9	1119.1	1122.2	1700.1	3416.9	4183.1	4175.8	4116.1
45°	1011.2	1034.3	1073.0	1067.8	1119.1	1522.1	3565.5	4668.9	4765.2	4720.2
47.5°	992.4	1010.2	1014.4	1036.4	1146.3	1363.0	3757.1	5619.4	5887.4	5836.1
50°	981.9	999.7	952.6	1038.5	1150.5	1260.4	4021.9	6812.8	7244.1	7176.0
52.5°	980.9	976.7	905.5	1060.4	1127.4	1197.6	4160.1	7683.8	8640.6	8788.2
55°	983.0	930.6	881.4	1066.7	1081.4	1174.5	3697.4	8102.5	9929.2	10241.2
57.5°	964.1	880.4	895.0	1041.6	994.5	1236.3	2733.3	7952.8	10444.3	11024.2
60°	928.5	832.2	920.2	973.6	905.5	1130.6	1882.2	7284.9	9910.4	10507.1
62.5°	877.2	798.7	917.0	885.6	873.1	925.4	1293.9	6350.1	9063.5	9646.6
65°	819.7	771.5	867.8	800.8	808.2	711.8	914.9	5294.9	8052.2	8625.9
67.5°	757.9	754.8	795.6	712.9	682.5	564.2	666.8	4243.9	6753.1	7270.3
70°	687.8	710.8	723.4	633.3	553.8	442.8	495.2	2967.8	4981.9	5432.0
72.5°	617.6	619.7	637.5	550.6	414.5	354.9	371.6	1797.4	3384.4	3712.1
75°	546.4	526.6	543.3	448.0	308.8	291.0	286.8	1110.7	2337.6	2596.1
77.5°	470.0	448.0	426.1	337.1	248.1	225.1	219.8	622.9	1434.2	1593.3
80°	382.1	352.8	318.2	247.1	181.1	161.2	160.2	303.6	715.0	796.6
82.5°	297.3	241.8	232.4	153.9	112.0	98.4	104.7	116.2	215.6	240.8
85°	208.3	175.9	123.5	61.8	50.2	40.8	39.8	34.5	57.6	63.9
87.5°	116.2	76.4	39.8	7.3	8.4	9.4	7.3	5.2	5.2	5.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)