

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: P634911

Luminaire Tested: GWS-SA3C-760-U-SLR-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P634911
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-SA3C-760-U-SLR-W
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS
Light Source: (48) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13325.5 lumens
Efficiency: N/A
Efficacy: 143.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

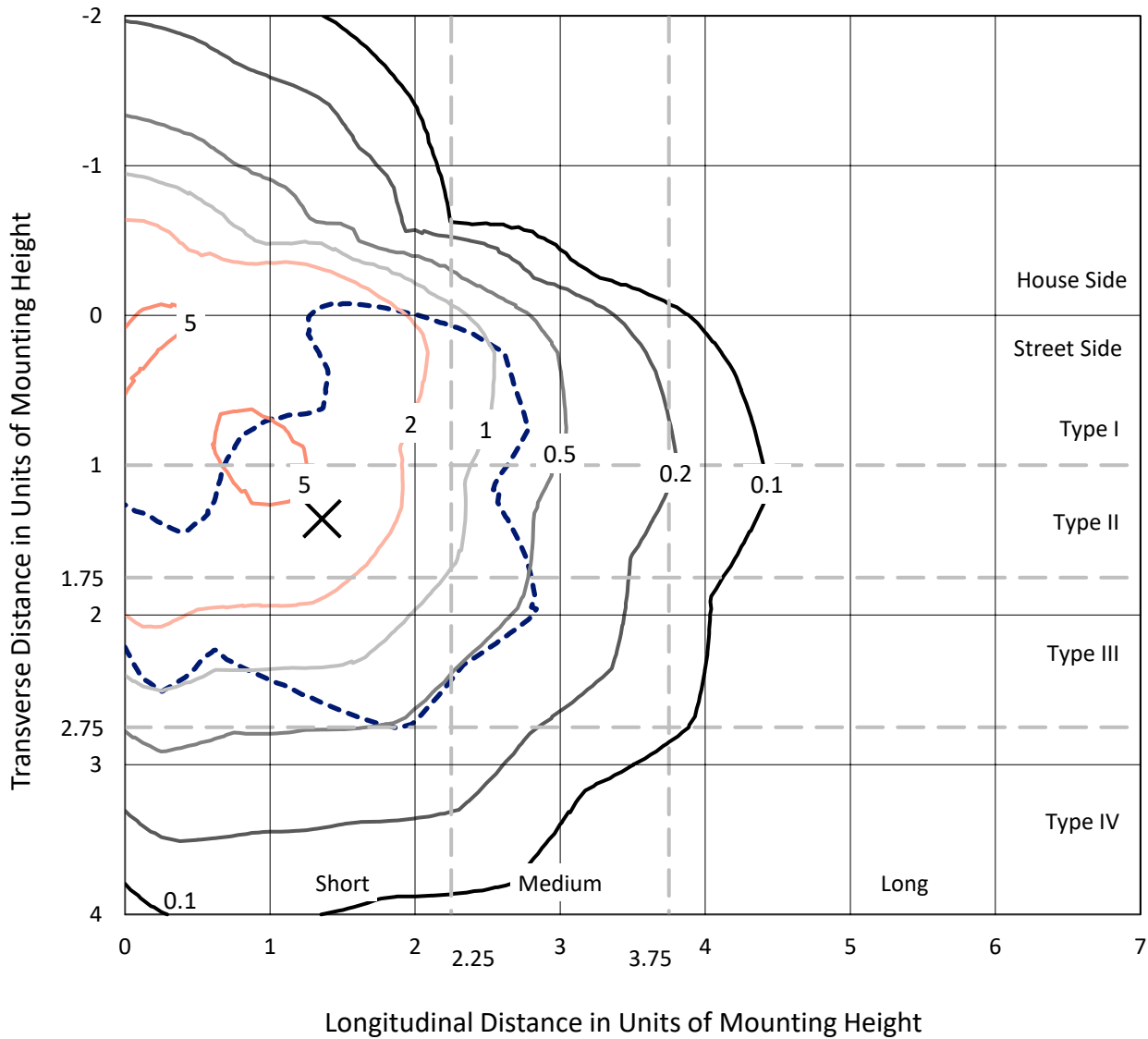
Input Watts (W): 93
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P634911
 CATALOG NUMBER: GWS-SA3C-760-U-SLR-W

Iso-Footcandle Lines of Horizontal Illumination

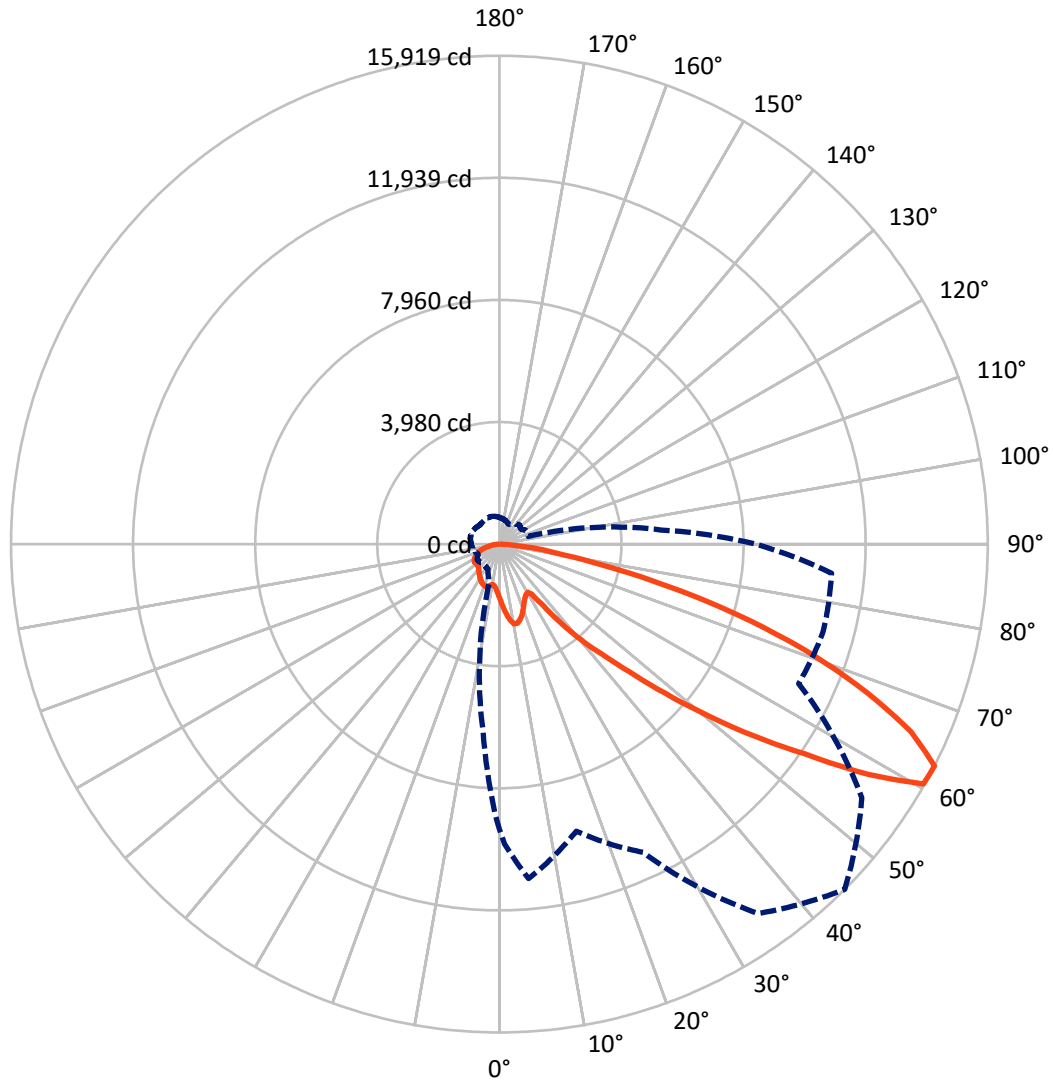
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.3 fc
 Type III - Short - N/A

REPORT NUMBER: P634911
CATALOG NUMBER: GWS-SA3C-760-U-SLR-W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P634911

CATALOG NUMBER: GWS-SA3C-760-U-SLR-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3179.7	0.0	3179.7
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	10145.8	0.0	10145.8
	% Fixture	76.1	0.0	76.1
Total	Lumens	13325.5	0.0	13325.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.7	1.3
10°-20°	541.5	4.1
20°-30°	841.0	6.3
30°-40°	1141.9	8.6
40°-50°	1809.8	13.6
50°-60°	3192.4	24.0
60°-70°	3552.0	26.7
70°-80°	1801.5	13.5
80°-90°	272.8	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°	13325.5	100.0
0°-180°	13325.5	100.0

Coefficient of Utilization



REPORT NUMBER: P634911

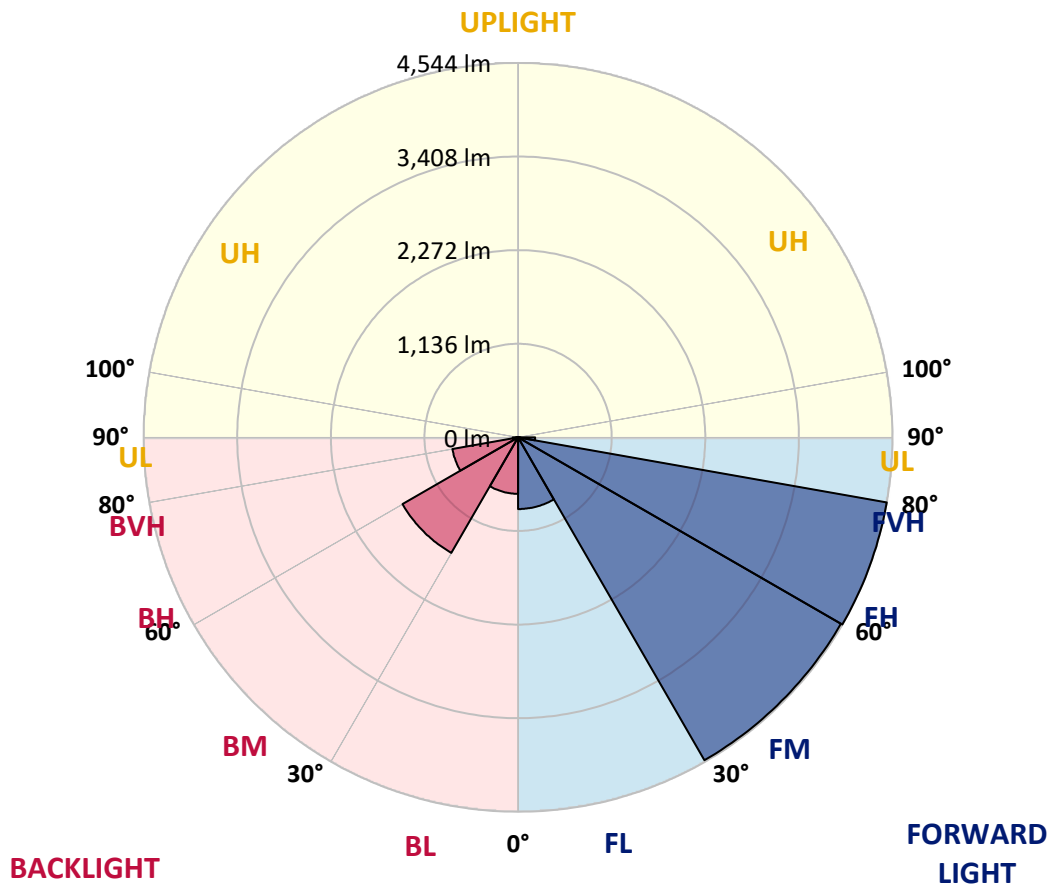
CATALOG NUMBER: GWS-SA3C-760-U-SLR-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	870.0	6.5			
FM (30°-60°)	4524.6	34.0			
FH (60°-80°)	4544.1	34.1			G2/5000
FVH (80°-90°)	207.0	1.6			G2/225
BL (0°-30°)	685.1	5.1	B2/1000		
BM (30°-60°)	1619.4	12.2	B2/2500		
BH (60°-80°)	809.4	6.1	B2/1000		G2/1000
BVH (80°-90°)	65.7	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: P634911
 CATALOG NUMBER: GWS-SA3C-760-U-SLR-W

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1768.6	1768.6	1768.6	1768.6	1768.6	1768.6	1768.6	1768.6	1768.6	1768.6	1768.6
2.5°	1900.7	1899.7	1918.9	1948.1	1975.4	1987.5	2007.7	2005.7	1989.5	1968.3	1961.3
5°	2050.0	2054.1	2087.4	2151.9	2223.6	2253.8	2267.0	2261.9	2232.7	2195.3	2129.7
7.5°	2185.2	2192.3	2243.7	2340.6	2429.4	2469.7	2502.0	2496.0	2453.6	2384.0	2287.1
10°	2284.1	2292.2	2353.7	2467.7	2566.6	2601.9	2643.3	2645.3	2608.0	2514.1	2415.3
12.5°	2383.0	2391.0	2448.6	2552.5	2617.0	2618.0	2642.3	2655.4	2657.4	2614.0	2515.1
15°	2485.9	2492.9	2545.4	2603.9	2600.9	2544.4	2544.4	2569.6	2625.1	2656.4	2587.8
17.5°	2573.7	2582.7	2623.1	2603.9	2514.1	2412.2	2400.1	2432.4	2529.3	2649.3	2642.3
20°	2646.3	2653.4	2675.5	2548.4	2385.0	2251.8	2228.6	2265.9	2397.1	2605.9	2683.6
22.5°	2715.9	2719.9	2707.8	2475.8	2245.8	2093.4	2065.2	2104.5	2245.8	2529.3	2718.9
25°	2798.6	2794.6	2737.1	2400.1	2118.6	1968.3	1939.1	1983.5	2130.8	2427.4	2757.3
27.5°	2894.5	2879.3	2762.3	2318.4	2020.8	1875.5	1855.3	1902.7	2040.0	2333.5	2787.5
30°	2976.2	2946.9	2766.3	2245.8	1970.3	1836.2	1824.1	1868.4	1995.6	2270.0	2825.9
32.5°	3067.0	3026.6	2789.6	2226.6	1998.6	1931.0	1947.1	1950.2	2007.7	2251.8	2883.4
35°	3197.1	3144.7	2853.1	2282.1	2289.1	2403.2	2461.7	2383.0	2190.3	2292.2	2992.3
37.5°	3393.9	3327.3	2982.2	2522.2	2889.4	3144.7	3285.9	3106.3	2745.2	2444.5	3156.8
40°	3633.0	3548.2	3147.7	2966.1	3450.4	3859.0	4110.2	3846.9	3316.2	2824.9	3387.8
42.5°	3966.9	3878.1	3468.5	3401.9	3969.9	4578.3	4906.2	4513.7	3819.6	3316.2	3758.1
45°	4549.0	4463.3	4056.7	3838.8	4578.3	5464.1	5924.1	5378.3	4331.1	3809.5	4450.2
47.5°	5624.5	5523.6	4930.4	4323.0	5272.4	6614.2	7257.9	6462.9	4862.8	4374.5	5612.4
50°	6915.9	6819.0	6027.0	4896.1	6039.2	7844.0	8738.9	7737.1	5475.2	5061.5	7001.6
52.5°	8469.5	8451.4	7591.8	5620.5	6837.2	9155.6	10382.4	9148.5	6146.1	5986.7	8575.5
55°	9869.9	10047.4	9579.3	6725.2	7868.3	10803.1	12072.3	10688.1	7056.1	7516.2	10418.7
57.5°	10624.5	11101.7	11821.0	8979.0	9367.4	12772.4	14157.6	12567.6	8619.9	10062.6	12127.7
60°	10126.1	10666.9	11970.4	10676.0	10854.5	14350.3	15878.8	14147.5	10155.4	11830.1	12030.9
62.5°	9296.8	9782.1	10941.3	9685.2	11084.6	14697.4	15919.1	14422.9	10765.8	10933.2	10867.7
65°	8313.2	8802.5	10030.3	8454.4	10353.1	13873.1	14744.8	13612.8	9669.1	9877.9	9902.2
67.5°	7006.7	7458.6	8708.6	7517.2	9437.1	12663.5	12941.9	12458.7	8904.4	9237.3	8889.2
70°	5235.1	5642.7	6746.4	6108.8	7955.0	11087.6	10862.6	10934.2	8045.8	8376.7	7425.4
72.5°	3577.5	3884.2	4830.5	4800.2	6091.6	8876.1	8562.4	9241.3	6720.1	7159.0	5660.8
75°	2502.0	2741.1	3491.7	3792.4	4604.5	6578.9	6097.7	6916.9	5248.2	5874.7	4130.4
77.5°	1535.5	1693.9	2205.4	2809.7	2962.1	4502.6	3787.3	5204.8	3685.4	4284.7	2755.3
80°	767.8	844.4	1071.4	1766.5	1964.3	2653.4	2091.4	3021.6	2494.0	2653.4	1524.4
82.5°	232.0	256.3	313.8	670.9	1018.0	1527.4	1235.9	1755.5	1362.0	1243.9	600.3
85°	61.5	69.6	86.8	198.7	357.1	547.8	417.7	850.5	652.7	459.0	226.0
87.5°	5.0	5.0	4.0	4.0	2.0	0.0	0.0	60.5	122.1	69.6	39.3
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: P634911
 CATALOG NUMBER: GWS-SA3C-760-U-SLR-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1768.6	1768.6	1768.6	1768.6	1768.6	1768.6	1768.6	1768.6	1768.6	1768.6	1768.6
2.5°	1926.0	1921.9	1880.6	1850.3	1815.0	1780.7	1745.4	1714.1	1678.8	1643.5	1633.4
5°	2081.3	2053.1	1965.3	1891.6	1819.0	1755.5	1700.0	1642.5	1596.0	1550.6	1533.5
7.5°	2218.5	2169.1	2042.0	1930.0	1829.1	1750.4	1668.7	1584.9	1519.4	1454.8	1438.7
10°	2342.6	2277.0	2116.6	1975.4	1863.4	1773.6	1677.8	1565.8	1470.9	1392.3	1371.1
12.5°	2434.4	2362.8	2181.2	2018.8	1891.6	1790.8	1695.9	1597.1	1497.2	1395.3	1372.1
15°	2507.1	2432.4	2234.7	2052.1	1892.7	1762.5	1670.7	1636.4	1605.1	1505.2	1462.9
17.5°	2565.6	2486.9	2281.1	2072.2	1865.4	1676.8	1597.1	1647.5	1727.2	1664.7	1584.9
20°	2619.1	2539.3	2316.4	2086.4	1804.9	1558.7	1514.3	1621.3	1741.3	1739.3	1667.7
22.5°	2677.6	2599.9	2367.8	2094.4	1720.1	1438.7	1464.9	1582.9	1680.8	1710.1	1665.7
25°	2752.2	2683.6	2439.5	2112.6	1624.3	1355.9	1428.6	1533.5	1615.2	1622.3	1596.0
27.5°	2839.0	2787.5	2546.4	2155.0	1531.5	1313.6	1386.2	1463.9	1538.5	1541.6	1510.3
30°	2933.8	2899.5	2645.3	2190.3	1461.9	1300.4	1331.7	1394.3	1441.7	1449.8	1422.5
32.5°	3054.9	3024.6	2733.1	2167.1	1420.5	1297.4	1281.3	1313.6	1352.9	1352.9	1331.7
35°	3221.4	3179.0	2825.9	2078.3	1370.1	1285.3	1227.8	1236.9	1254.0	1257.1	1245.0
37.5°	3457.4	3387.8	2919.7	1902.7	1287.3	1241.9	1166.3	1155.2	1161.2	1169.3	1166.3
40°	3750.0	3636.0	3056.9	1691.9	1188.5	1158.2	1102.7	1081.5	1076.5	1092.6	1098.7
42.5°	4118.2	3943.7	3204.2	1495.2	1098.7	1062.4	1028.0	1009.9	1001.8	1029.1	1045.2
45°	4706.4	4418.9	3345.4	1300.4	1048.2	980.6	957.4	944.3	948.3	980.6	1000.8
47.5°	5722.4	5144.3	3479.6	1177.4	1044.2	922.1	893.9	896.9	908.0	942.3	966.5
50°	7007.7	6115.8	3569.4	1125.9	1056.3	886.8	849.5	865.6	882.8	916.1	944.3
52.5°	8316.2	7020.8	3462.5	1097.7	1055.3	887.8	808.1	856.5	864.6	897.9	928.2
55°	9216.1	7121.7	2991.3	1054.3	1039.1	928.2	775.8	852.5	857.5	887.8	915.1
57.5°	9559.1	6776.6	2281.1	1066.4	990.7	959.4	761.7	824.3	860.6	886.8	915.1
60°	9144.5	6125.9	1386.2	1097.7	913.0	957.4	770.8	772.8	835.4	879.7	908.0
62.5°	8362.6	5290.6	973.6	1008.9	856.5	904.0	792.0	712.3	791.0	844.4	869.7
65°	7466.7	4307.9	742.5	868.6	829.3	821.2	799.0	658.8	730.4	782.9	805.1
67.5°	6533.5	3348.5	603.3	647.7	749.6	742.5	730.4	611.4	658.8	696.1	721.3
70°	5358.2	2342.6	509.5	486.3	642.7	665.9	638.6	551.9	567.0	605.3	625.5
72.5°	3919.5	1459.8	418.7	401.5	516.5	582.1	568.0	486.3	493.3	529.7	545.8
75°	2818.8	835.4	336.0	330.9	394.5	498.4	470.1	418.7	426.8	454.0	465.1
77.5°	1791.8	465.1	259.3	266.3	282.5	372.3	401.5	358.2	358.2	374.3	383.4
80°	959.4	266.3	189.7	192.7	197.7	284.5	316.8	277.4	277.4	266.3	277.4
82.5°	391.4	153.3	130.1	121.1	132.2	194.7	222.0	176.6	184.6	166.5	170.5
85°	129.1	76.7	64.6	63.6	62.6	85.8	106.9	87.8	104.9	66.6	69.6
87.5°	17.2	14.1	8.1	6.1	7.1	3.0	6.1	7.1	7.1	5.0	5.0
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: P634911
 CATALOG NUMBER: GWS-SA3C-760-U-SLR-W

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1768.6	1768.6	1768.6	1768.6	1768.6	1768.6	1768.6	1768.6	1768.6	1768.6	1768.6
2.5°	1626.3	1618.2	1589.0	1596.0	1591.0	1582.9	1591.0	1575.9	1588.0	1592.0	1617.2
5°	1520.4	1501.2	1473.0	1458.8	1455.8	1447.7	1448.8	1441.7	1443.7	1460.9	1489.1
7.5°	1425.5	1407.4	1385.2	1375.1	1366.0	1356.9	1355.9	1354.9	1363.0	1378.1	1405.4
10°	1356.9	1346.9	1337.8	1341.8	1337.8	1333.7	1326.7	1326.7	1339.8	1367.0	1400.3
12.5°	1356.9	1354.9	1356.9	1369.0	1368.0	1369.0	1360.0	1365.0	1401.3	1447.7	1495.2
15°	1429.6	1413.4	1413.4	1419.5	1417.5	1417.5	1417.5	1438.7	1521.4	1593.0	1643.5
17.5°	1518.4	1470.9	1450.8	1447.7	1446.7	1446.7	1450.8	1496.2	1625.3	1701.0	1730.2
20°	1579.9	1490.1	1456.8	1443.7	1444.7	1446.7	1458.8	1521.4	1663.6	1702.0	1694.9
22.5°	1591.0	1475.0	1434.6	1415.5	1418.5	1420.5	1438.7	1505.2	1611.2	1617.2	1603.1
25°	1539.6	1432.6	1389.2	1374.1	1378.1	1377.1	1393.3	1441.7	1517.4	1515.3	1507.3
27.5°	1462.9	1365.0	1332.7	1322.6	1329.7	1321.6	1326.7	1364.0	1422.5	1420.5	1417.5
30°	1384.2	1299.4	1270.2	1265.1	1274.2	1262.1	1263.1	1294.4	1334.7	1332.7	1331.7
32.5°	1305.5	1233.9	1207.6	1207.6	1216.7	1203.6	1205.6	1232.9	1260.1	1252.0	1252.0
35°	1230.8	1180.4	1159.2	1155.2	1162.2	1153.1	1157.2	1182.4	1192.5	1181.4	1174.3
37.5°	1165.3	1143.1	1121.9	1107.7	1108.8	1109.8	1121.9	1141.0	1135.0	1118.8	1109.8
40°	1104.7	1104.7	1084.5	1058.3	1055.3	1062.4	1082.5	1103.7	1086.6	1068.4	1057.3
42.5°	1061.3	1070.4	1051.3	1025.0	1019.0	1031.1	1053.3	1068.4	1048.2	1028.0	1012.9
45°	1021.0	1043.2	1030.1	1000.8	992.7	1006.9	1035.1	1041.2	1013.9	994.8	983.7
47.5°	992.7	1023.0	1013.9	985.7	973.6	993.7	1023.0	1022.0	987.7	967.5	958.4
50°	972.6	1010.9	1009.9	985.7	972.6	997.8	1024.0	1010.9	973.6	952.4	943.3
52.5°	956.4	1009.9	1017.0	1002.8	993.7	1015.9	1032.1	1006.9	963.5	941.3	934.2
55°	949.4	1013.9	1019.0	1005.9	997.8	1018.0	1032.1	1014.9	963.5	943.3	937.2
57.5°	951.4	1008.9	1009.9	991.7	977.6	1002.8	1025.0	1020.0	974.6	951.4	944.3
60°	939.3	981.6	983.7	955.4	939.3	969.5	1008.9	1005.9	969.5	945.3	932.2
62.5°	898.9	936.2	937.2	911.0	887.8	931.2	974.6	973.6	940.3	916.1	900.9
65°	831.3	870.7	880.8	855.5	837.4	883.8	929.2	927.2	893.9	871.7	856.5
67.5°	747.6	790.0	809.1	792.0	784.9	827.3	869.7	868.6	841.4	820.2	807.1
70°	645.7	681.0	713.3	713.3	708.2	756.7	802.1	798.0	772.8	756.7	746.6
72.5°	560.9	588.2	598.3	608.4	623.5	673.9	712.3	715.3	697.1	689.1	697.1
75°	477.2	494.4	503.4	495.4	521.6	574.1	624.5	629.5	610.4	597.3	600.3
77.5°	392.5	411.6	420.7	402.5	400.5	467.1	528.7	539.8	523.6	503.4	509.5
80°	283.5	308.7	323.9	311.7	307.7	337.0	421.7	433.8	418.7	402.5	411.6
82.5°	173.5	187.7	191.7	203.8	229.0	241.1	271.4	311.7	300.6	286.5	311.7
85°	68.6	81.7	90.8	102.9	120.1	142.3	167.5	199.8	181.6	175.5	206.8
87.5°	4.0	1.0	0.0	2.0	17.2	33.3	71.6	98.9	82.7	88.8	106.9
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: P634911
 CATALOG NUMBER: GWS-SA3C-760-U-SLR-W

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1768.6	1768.6	1768.6	1768.6	1768.6	1768.6	1768.6	1768.6	1768.6	1768.6
2.5°	1637.4	1663.6	1699.0	1728.2	1765.5	1800.9	1837.2	1873.5	1892.7	1900.7
5°	1521.4	1569.8	1626.3	1688.9	1761.5	1838.2	1915.9	1995.6	2046.0	2050.0
7.5°	1451.8	1521.4	1599.1	1677.8	1767.6	1873.5	1996.6	2119.7	2171.1	2185.2
10°	1474.0	1551.7	1613.2	1686.8	1785.7	1917.9	2063.2	2207.4	2267.0	2284.1
12.5°	1562.8	1577.9	1597.1	1664.7	1785.7	1956.2	2131.8	2303.3	2366.8	2383.0
15°	1636.4	1563.8	1529.5	1601.1	1761.5	1989.5	2204.4	2394.1	2470.7	2485.9
17.5°	1642.5	1517.4	1442.7	1507.3	1719.1	2012.7	2274.0	2495.0	2559.5	2573.7
20°	1580.9	1467.9	1371.1	1410.4	1661.6	2022.8	2324.5	2568.6	2632.2	2646.3
22.5°	1511.3	1427.6	1322.6	1320.6	1592.0	2033.9	2385.0	2638.2	2706.8	2715.9
25°	1445.7	1372.1	1283.3	1255.0	1511.3	2055.1	2466.7	2743.1	2795.6	2798.6
27.5°	1369.0	1312.6	1252.0	1224.8	1440.7	2095.4	2587.8	2868.2	2899.5	2894.5
30°	1299.4	1257.1	1229.8	1221.8	1396.3	2125.7	2702.8	2991.3	2993.3	2976.2
32.5°	1225.8	1209.6	1209.6	1235.9	1360.0	2118.6	2796.6	3111.4	3092.2	3067.0
35°	1160.2	1163.2	1184.4	1246.0	1299.4	2048.0	2886.4	3261.7	3233.5	3197.1
37.5°	1097.7	1120.9	1151.1	1210.7	1219.7	1943.1	2991.3	3474.6	3439.3	3393.9
40°	1044.2	1079.5	1114.8	1144.1	1135.0	1793.8	3137.6	3724.8	3685.4	3633.0
42.5°	1001.8	1036.1	1075.5	1078.5	1081.5	1638.4	3293.0	4031.5	4024.4	3966.9
45°	974.6	996.8	1034.1	1029.1	1078.5	1466.9	3436.2	4499.6	4592.4	4549.0
47.5°	956.4	973.6	977.6	998.8	1104.7	1313.6	3620.9	5415.7	5673.9	5624.5
50°	946.3	963.5	918.1	1000.8	1108.8	1214.7	3876.1	6565.8	6981.4	6915.9
52.5°	945.3	941.3	872.7	1022.0	1086.6	1154.2	4009.3	7405.2	8327.3	8469.5
55°	947.3	896.9	849.5	1028.0	1042.2	1132.0	3563.4	7808.7	9569.2	9869.9
57.5°	929.2	848.5	862.6	1003.8	958.4	1191.5	2634.2	7664.5	10065.6	10624.5
60°	894.9	802.1	886.8	938.3	872.7	1089.6	1814.0	7020.8	9551.1	10126.1
62.5°	845.4	769.8	883.8	853.5	841.4	891.8	1247.0	6119.9	8734.9	9296.8
65°	790.0	743.5	836.4	771.8	778.9	686.0	881.8	5102.9	7760.3	8313.2
67.5°	730.4	727.4	766.7	687.0	657.8	543.8	642.7	4090.0	6508.3	7006.7
70°	662.8	685.0	697.1	610.4	533.7	426.8	477.2	2860.2	4801.3	5235.1
72.5°	595.2	597.3	614.4	530.7	399.5	342.0	358.2	1732.2	3261.7	3577.5
75°	526.6	507.5	523.6	431.8	297.6	280.5	276.4	1070.4	2252.8	2502.0
77.5°	453.0	431.8	410.6	324.9	239.1	216.9	211.9	600.3	1382.2	1535.5
80°	368.2	340.0	306.7	238.1	174.5	155.4	154.4	292.6	689.1	767.8
82.5°	286.5	233.1	224.0	148.3	108.0	94.8	100.9	112.0	207.8	232.0
85°	200.8	169.5	119.0	59.5	48.4	39.3	38.3	33.3	55.5	61.5
87.5°	112.0	73.6	38.3	7.1	8.1	9.1	7.1	5.0	5.0	5.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)