

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: P631279

Luminaire Tested: GWS-SA1F-735-U-SLR-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631279
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-43)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-735-U-SLR-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6501.3 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

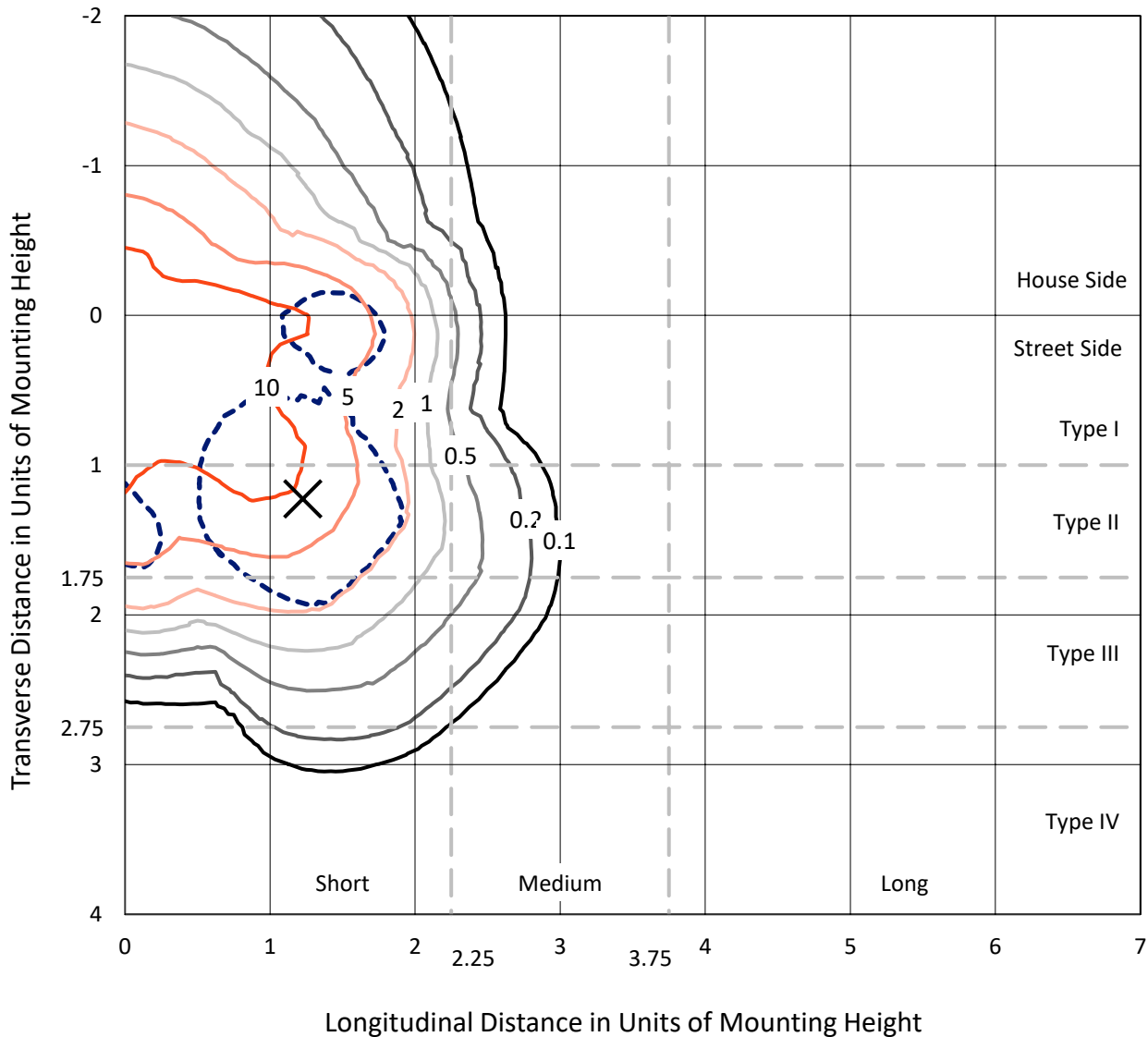
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P631279
 CATALOG NUMBER: GWS-SA1F-735-U-SLR-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

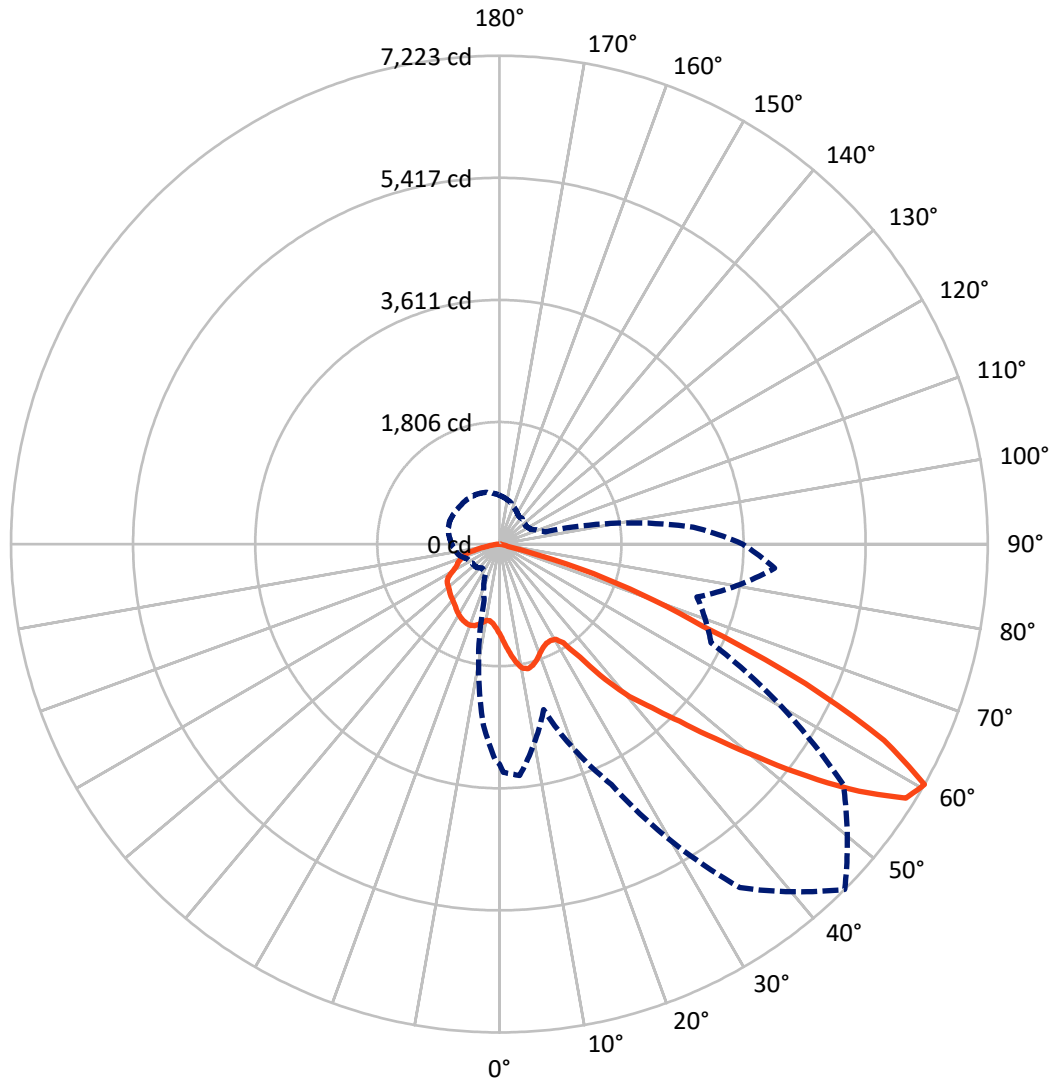
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.8 fc
 Type III - Short - N/A

REPORT NUMBER: P631279
CATALOG NUMBER: GWS-SA1F-735-U-SLR-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

REPORT NUMBER: P631279

CATALOG NUMBER: GWS-SA1F-735-U-SLR-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2278.9	0.0	2278.9
	% Fixture	35.1	0.0	35.1
Street Side	Lumens	4222.4	0.0	4222.4
	% Fixture	64.9	0.0	64.9
Total	Lumens	6501.3	0.0	6501.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.3	2.0
10°-20°	411.8	6.3
20°-30°	668.9	10.3
30°-40°	943.3	14.5
40°-50°	1303.6	20.1
50°-60°	1678.1	25.8
60°-70°	1063.3	16.4
70°-80°	272.8	4.2
80°-90°	29.2	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°	6501.3	100.0
0°-180°	6501.3	100.0

Coefficient of Utilization



REPORT NUMBER: P631279

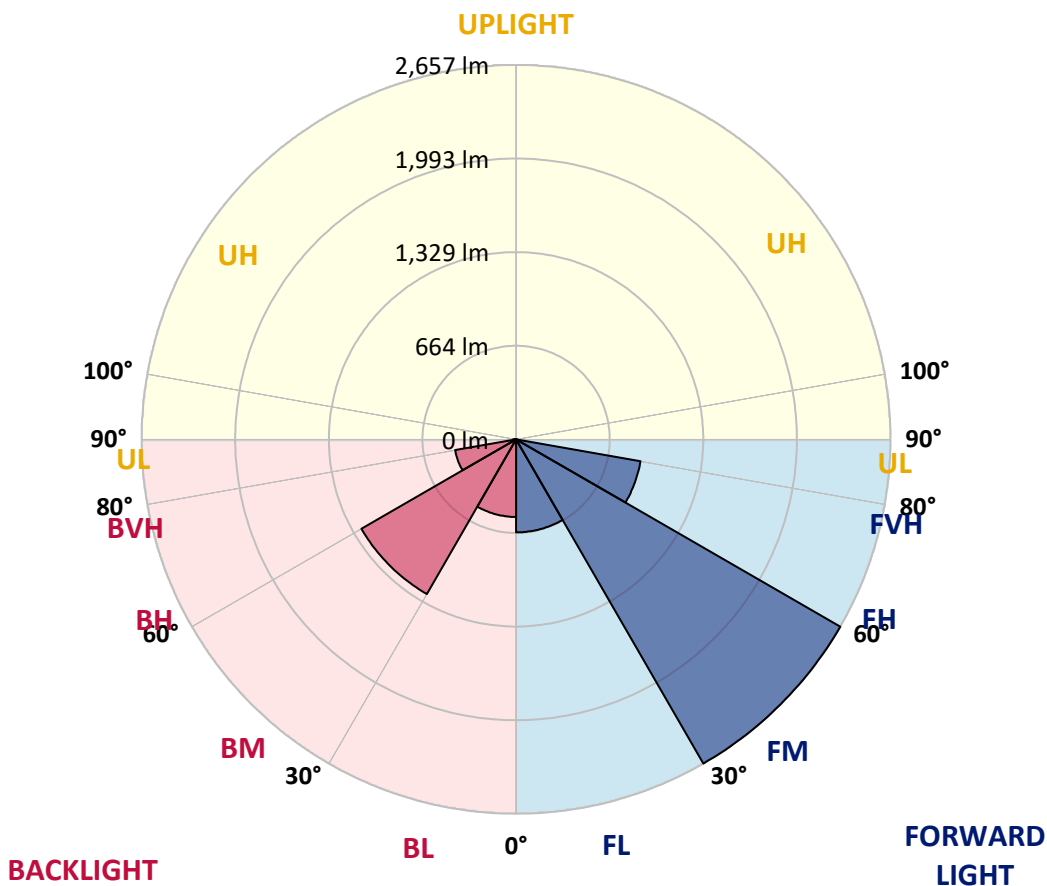
CATALOG NUMBER: GWS-SA1F-735-U-SLR-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	660.1	10.2			
FM (30°-60°)	2657.4	40.9			
FH (60°-80°)	897.0	13.8			G1/1800
FVH (80°-90°)	7.9	0.1			G0/10
BL (0°-30°)	550.8	8.5	B2/1000		
BM (30°-60°)	1267.7	19.5	B2/2500		
BH (60°-80°)	439.2	6.8	B1/500		G1/500
BVH (80°-90°)	21.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type III Short





REPORT NUMBER: P631279

CATALOG NUMBER: GWS-SA1F-735-U-SLR-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1335.6	1335.6	1335.6	1335.6	1335.6	1335.6	1335.6	1335.6	1335.6	1335.6	1335.6
2.5°	1396.9	1406.4	1412.4	1423.7	1444.0	1455.3	1467.8	1454.1	1457.7	1455.9	1433.8
5°	1479.7	1491.0	1506.5	1539.9	1577.4	1598.3	1617.9	1614.9	1596.5	1565.5	1543.5
7.5°	1557.2	1570.3	1597.1	1651.3	1706.7	1738.8	1762.7	1747.2	1731.7	1682.9	1627.5
10°	1617.9	1625.7	1662.0	1734.7	1799.0	1835.3	1864.5	1861.0	1839.5	1784.7	1710.3
12.5°	1675.1	1680.5	1719.8	1792.5	1850.2	1866.3	1890.2	1897.9	1890.7	1849.6	1776.4
15°	1736.5	1746.6	1782.9	1838.3	1864.5	1847.9	1856.2	1877.6	1897.9	1897.9	1830.6
17.5°	1793.7	1802.6	1839.5	1863.3	1838.3	1794.2	1796.6	1824.0	1872.3	1922.9	1880.0
20°	1844.3	1852.6	1889.0	1866.3	1787.1	1722.8	1721.0	1754.3	1832.4	1939.0	1933.0
22.5°	1899.7	1911.6	1942.0	1868.7	1739.4	1657.8	1657.2	1691.8	1797.2	1955.1	1993.8
25°	1978.3	1996.8	2012.3	1889.6	1713.8	1615.5	1623.3	1656.0	1785.9	1981.3	2083.8
27.5°	2095.1	2110.0	2108.8	1933.0	1712.6	1598.3	1614.3	1652.5	1806.2	2027.8	2178.5
30°	2221.4	2229.1	2216.6	1993.8	1740.0	1609.0	1632.8	1678.1	1857.4	2104.6	2317.9
32.5°	2361.4	2370.9	2347.1	2084.9	1803.8	1688.2	1740.6	1762.7	1929.5	2215.4	2465.6
35°	2522.2	2540.7	2491.2	2205.3	1991.4	1977.1	2053.4	2024.8	2082.6	2346.5	2623.5
37.5°	2691.4	2692.0	2621.1	2383.4	2359.6	2384.0	2536.5	2447.1	2407.2	2492.4	2784.3
40°	2834.9	2831.4	2722.3	2623.5	2680.1	2777.1	2961.2	2824.2	2719.4	2688.4	2917.7
42.5°	2978.5	2965.4	2855.2	2776.0	2901.1	3100.6	3308.5	3140.5	2919.5	2866.5	3049.4
45°	3162.0	3157.8	3025.0	2836.7	3100.6	3462.8	3738.6	3466.4	3038.1	2970.2	3268.6
47.5°	3458.0	3437.8	3190.6	2832.0	3287.7	3945.3	4293.8	3876.8	3120.9	2972.5	3622.4
50°	3747.5	3722.5	3388.3	2831.4	3480.7	4445.7	4949.1	4375.4	3205.5	2986.8	3982.2
52.5°	4040.0	4040.0	3713.0	2898.7	3683.2	5004.5	5706.2	4996.7	3349.6	3173.9	4424.9
55°	4214.0	4260.4	4078.2	3012.5	3920.3	5662.1	6455.0	5667.5	3572.4	3511.6	4833.5
57.5°	3993.0	4079.9	4053.7	2933.2	4060.3	6145.2	7090.0	6176.2	3682.6	3551.6	4772.1
60°	3253.7	3374.6	3434.8	2532.9	3922.1	6201.2	7222.9	6209.6	3455.1	3024.4	4087.7
62.5°	2163.0	2262.5	2354.2	1809.7	3395.5	5578.7	6388.3	5580.5	2885.6	2257.1	2832.0
65°	1060.9	1134.8	1233.7	1069.9	2652.6	4661.3	4980.6	4509.4	2087.3	1263.5	1444.6
67.5°	277.6	298.4	312.1	415.2	1900.3	3349.0	3248.3	3298.4	1340.9	412.8	377.7
70°	144.2	145.4	144.8	171.6	1284.3	2128.4	2238.6	2071.2	935.8	172.8	148.9
72.5°	103.1	103.7	101.9	115.6	620.1	1219.4	1263.5	1249.8	490.3	102.5	101.9
75°	67.3	67.9	66.7	67.9	93.5	138.8	128.1	134.6	81.6	64.9	64.9
77.5°	39.9	40.5	39.9	41.1	39.9	39.9	36.9	36.9	35.1	35.1	35.7
80°	26.8	26.8	26.2	27.4	25.0	25.0	23.8	23.2	21.4	20.8	20.8
82.5°	16.1	16.7	16.1	16.1	14.9	14.9	13.7	13.1	11.3	11.3	10.7
85°	8.3	8.3	7.7	7.7	6.6	6.0	4.8	4.8	3.6	3.0	3.0
87.5°	1.2	1.2	0.6	0.6	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: P631279

CATALOG NUMBER: GWS-SA1F-735-U-SLR-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1335.6	1335.6	1335.6	1335.6	1335.6	1335.6	1335.6	1335.6	1335.6	1335.6	1335.6
2.5°	1427.9	1416.0	1398.1	1380.8	1364.7	1348.1	1329.0	1309.3	1292.7	1275.4	1266.5
5°	1514.3	1489.8	1443.4	1402.3	1365.3	1335.0	1302.2	1274.2	1248.0	1226.5	1215.8
7.5°	1592.3	1554.2	1483.9	1419.0	1368.9	1327.2	1281.9	1240.2	1205.1	1178.9	1168.8
10°	1664.4	1619.1	1526.8	1444.6	1386.2	1339.7	1284.3	1227.7	1181.3	1146.7	1138.4
12.5°	1722.8	1670.9	1560.7	1465.4	1396.3	1346.3	1297.4	1248.6	1202.7	1158.0	1150.9
15°	1774.6	1713.2	1586.3	1478.5	1392.7	1329.0	1287.9	1281.9	1281.9	1231.3	1217.0
17.5°	1819.3	1752.0	1607.2	1484.5	1370.1	1277.8	1252.8	1304.6	1363.0	1326.6	1294.5
20°	1870.5	1788.9	1624.5	1484.5	1328.4	1212.8	1210.5	1298.6	1385.0	1385.6	1351.6
22.5°	1922.3	1831.8	1644.7	1479.1	1271.2	1137.8	1181.9	1274.8	1351.6	1384.4	1361.2
25°	2006.3	1891.3	1676.9	1475.0	1204.5	1086.6	1156.3	1243.2	1308.2	1342.7	1327.8
27.5°	2112.9	1970.0	1725.7	1481.5	1138.4	1056.2	1128.8	1202.1	1261.1	1291.5	1280.8
30°	2232.1	2060.5	1778.2	1492.8	1090.7	1040.7	1096.1	1155.1	1207.5	1237.9	1233.1
32.5°	2384.0	2158.8	1823.4	1477.3	1063.9	1032.9	1061.5	1103.8	1154.5	1173.5	1177.7
35°	2565.7	2267.2	1858.0	1416.6	1039.5	1024.6	1024.0	1050.2	1086.0	1116.3	1119.3
37.5°	2733.1	2394.1	1896.1	1312.3	995.4	1003.8	979.9	995.4	1030.6	1060.9	1072.9
40°	2898.7	2522.8	1949.1	1179.5	937.6	957.3	929.3	940.0	968.0	1007.9	1027.0
42.5°	3059.5	2638.9	2005.1	1043.7	879.8	892.4	871.5	882.2	911.4	961.5	982.9
45°	3234.6	2796.2	2048.6	915.6	829.8	824.4	807.8	823.3	867.3	922.1	947.8
47.5°	3565.9	3044.0	2077.2	830.4	803.0	764.3	745.2	778.6	828.6	884.0	915.0
50°	3970.3	3402.6	2068.9	776.2	779.8	702.3	695.8	739.9	793.5	851.3	885.2
52.5°	4290.8	3754.7	1974.1	724.4	734.5	663.0	644.0	708.3	759.5	818.5	853.6
55°	4535.7	3873.2	1683.4	663.0	660.6	634.4	594.5	675.5	725.6	780.4	818.5
57.5°	4336.1	3609.3	1248.0	578.4	564.1	577.8	539.1	620.1	683.9	738.1	772.0
60°	3598.6	2877.8	695.2	512.3	471.8	505.2	499.2	561.7	638.6	695.8	725.0
62.5°	2443.0	1916.4	412.2	405.1	382.4	430.1	461.7	502.8	578.4	624.9	652.3
65°	1217.6	931.1	274.0	303.2	306.2	353.8	413.4	458.7	521.8	569.5	596.9
67.5°	353.2	289.5	208.5	231.7	263.9	302.0	349.7	403.3	464.6	521.2	553.4
70°	152.5	154.3	165.6	193.0	224.6	263.9	311.6	364.0	415.8	459.3	483.7
72.5°	107.8	112.0	124.5	152.5	182.3	219.8	267.5	318.1	355.6	399.7	425.3
75°	69.1	72.1	82.2	103.7	125.7	162.0	207.3	253.8	292.5	324.1	348.5
77.5°	38.1	38.7	47.1	59.6	74.5	97.7	131.1	167.4	196.0	213.9	235.9
80°	22.0	22.0	26.2	34.0	42.9	57.2	75.7	93.5	110.8	122.1	132.8
82.5°	11.9	11.9	13.7	18.5	23.2	31.6	42.3	51.2	62.0	67.9	75.1
85°	3.6	3.6	4.8	6.6	8.3	11.9	16.7	21.4	26.2	30.4	34.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
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: P631279

CATALOG NUMBER: GWS-SA1F-735-U-SLR-W-GRSWH

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1335.6	1335.6	1335.6	1335.6	1335.6	1335.6	1335.6	1335.6	1335.6	1335.6	1335.6
2.5°	1264.7	1256.3	1251.6	1245.6	1247.4	1242.0	1239.1	1240.8	1230.1	1240.8	1251.6
5°	1211.7	1199.7	1190.2	1182.5	1178.9	1171.7	1167.6	1167.6	1161.0	1171.7	1184.8
7.5°	1165.2	1155.7	1150.9	1146.1	1140.8	1134.2	1127.1	1124.7	1120.5	1131.8	1143.1
10°	1134.2	1135.4	1138.4	1144.9	1143.7	1139.6	1128.8	1122.9	1122.9	1136.0	1153.3
12.5°	1148.5	1161.0	1168.2	1180.1	1182.5	1178.9	1168.2	1163.4	1175.3	1195.0	1223.6
15°	1203.9	1212.2	1218.2	1227.7	1227.1	1224.2	1215.8	1219.4	1258.7	1296.8	1322.5
17.5°	1264.1	1254.5	1253.4	1259.3	1261.1	1257.5	1252.8	1268.8	1333.8	1369.5	1382.6
20°	1307.6	1274.8	1267.6	1270.0	1274.8	1273.0	1273.0	1299.2	1366.5	1383.2	1366.5
22.5°	1320.7	1274.2	1263.5	1264.1	1270.6	1271.2	1274.2	1301.6	1340.9	1341.5	1315.9
25°	1299.8	1255.1	1247.4	1248.6	1256.3	1255.7	1256.9	1272.4	1289.7	1282.5	1263.5
27.5°	1260.5	1221.8	1219.4	1225.9	1236.1	1230.7	1227.1	1231.3	1239.7	1230.7	1214.0
30°	1215.8	1183.1	1184.2	1196.8	1207.5	1198.5	1189.6	1192.0	1192.6	1183.1	1164.0
32.5°	1168.8	1144.3	1148.5	1161.6	1174.1	1164.6	1155.1	1153.9	1142.6	1131.2	1112.8
35°	1121.7	1112.2	1117.5	1128.3	1139.0	1131.2	1125.3	1121.7	1097.3	1080.6	1065.1
37.5°	1078.8	1086.0	1095.5	1102.0	1105.6	1105.0	1101.4	1093.1	1060.9	1041.3	1021.0
40°	1040.7	1062.7	1072.9	1075.8	1081.2	1080.0	1079.4	1067.5	1025.2	1004.3	981.1
42.5°	1006.1	1037.1	1054.4	1057.4	1060.3	1060.9	1059.2	1041.9	993.6	969.2	947.2
45°	972.8	1013.3	1035.3	1032.3	1036.5	1036.5	1038.3	1015.7	962.6	937.6	914.4
47.5°	943.6	991.2	1011.5	1007.9	1010.3	1012.1	1013.9	987.7	928.7	904.9	881.0
50°	916.8	967.4	984.7	985.9	985.9	990.1	989.5	963.8	900.1	874.5	850.7
52.5°	888.2	943.0	961.5	969.2	971.6	973.4	965.0	935.2	870.9	839.9	817.9
55°	854.8	918.0	934.7	944.8	949.5	948.4	937.0	906.7	841.1	810.2	785.1
57.5°	804.2	864.4	888.2	893.0	900.7	895.9	882.8	857.2	793.5	762.5	736.9
60°	748.8	792.3	811.3	815.5	809.6	811.3	809.6	785.1	729.7	705.3	679.1
62.5°	676.1	714.8	735.1	740.5	730.3	736.9	734.5	704.1	648.7	623.1	599.9
65°	621.3	663.6	687.4	690.4	687.4	690.4	682.1	645.1	592.7	566.5	542.7
67.5°	578.4	621.9	646.9	655.3	652.3	651.7	638.6	595.7	541.5	512.9	482.5
70°	504.6	542.7	574.8	595.1	595.1	583.8	558.8	518.9	475.4	450.9	427.1
72.5°	446.8	495.0	526.6	547.4	551.6	545.1	509.9	467.6	417.6	393.2	368.1
75°	368.1	415.2	449.2	476.6	481.9	474.8	434.3	392.6	346.1	322.3	297.3
77.5°	246.0	274.0	301.4	326.4	321.1	325.8	298.4	266.9	238.3	220.4	209.1
80°	138.8	157.3	165.6	179.3	179.3	179.3	161.4	146.5	130.5	120.3	109.0
82.5°	78.6	90.5	94.1	105.4	108.4	109.0	97.1	87.6	77.4	72.1	64.3
85°	36.3	42.9	43.5	50.0	52.4	57.2	51.8	45.3	39.3	36.9	32.2
87.5°	1.2	3.6	4.8	8.9	11.9	13.7	14.9	14.9	12.5	11.3	9.5
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: P631279

CATALOG NUMBER: GWS-SA1F-735-U-SLR-W-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1335.6	1335.6	1335.6	1335.6	1335.6	1335.6	1335.6	1335.6	1335.6	1335.6
2.5°	1264.7	1279.0	1295.6	1307.6	1329.0	1346.9	1365.3	1385.6	1400.5	1396.9
5°	1200.9	1224.8	1255.1	1283.1	1323.0	1363.6	1408.2	1454.1	1480.9	1479.7
7.5°	1165.2	1199.1	1236.1	1273.6	1320.7	1379.0	1447.5	1519.0	1555.4	1557.2
10°	1184.2	1220.6	1245.6	1277.2	1326.6	1399.9	1482.1	1567.9	1609.6	1617.9
12.5°	1244.4	1241.4	1239.7	1262.3	1321.9	1414.8	1515.5	1617.9	1665.0	1675.1
15°	1301.6	1240.2	1203.3	1218.8	1300.4	1424.3	1548.2	1672.7	1725.7	1736.5
17.5°	1312.3	1219.4	1150.9	1161.6	1266.5	1427.3	1579.8	1726.3	1783.5	1793.7
20°	1282.5	1192.6	1112.8	1097.9	1223.6	1419.6	1599.5	1771.0	1833.6	1844.3
22.5°	1245.0	1168.8	1084.2	1045.5	1171.1	1411.8	1621.5	1818.1	1890.2	1899.7
25°	1205.7	1138.4	1057.4	998.4	1111.6	1407.0	1658.4	1880.0	1967.0	1978.3
27.5°	1164.0	1101.4	1034.1	975.8	1056.8	1413.0	1710.8	1980.1	2079.0	2095.1
30°	1119.3	1064.5	1019.2	968.0	1019.2	1418.4	1768.6	2082.6	2198.7	2221.4
32.5°	1072.9	1030.6	1003.8	971.6	996.0	1405.9	1819.3	2197.5	2341.7	2361.4
35°	1026.4	996.0	984.1	978.1	965.0	1360.0	1860.4	2313.7	2504.9	2522.2
37.5°	982.9	960.3	956.7	963.2	917.4	1284.9	1908.0	2461.4	2665.2	2691.4
40°	942.4	921.5	921.0	919.8	865.0	1182.5	1972.4	2611.5	2823.0	2834.9
42.5°	904.9	878.7	883.4	869.1	822.1	1071.7	2033.1	2739.6	2970.2	2978.5
45°	871.5	837.0	842.3	824.4	801.8	955.5	2086.7	2890.9	3156.6	3162.0
47.5°	839.3	802.4	787.5	786.3	798.2	848.3	2139.2	3182.2	3448.5	3458.0
50°	809.6	769.6	727.3	753.6	776.2	767.9	2204.7	3494.4	3749.9	3747.5
52.5°	781.0	728.5	668.4	719.0	719.0	708.3	2186.2	3683.8	3998.9	4040.0
55°	748.2	662.4	607.0	661.2	635.0	654.7	1859.2	3745.8	4155.6	4214.0
57.5°	683.3	580.8	532.6	561.7	522.4	607.0	1335.6	3438.4	3889.3	3993.0
60°	620.7	520.6	489.1	483.7	432.5	495.0	865.6	2692.0	3201.3	3253.7
62.5°	547.4	468.8	442.0	400.9	347.9	360.4	524.2	1771.6	2151.1	2163.0
65°	492.0	424.7	373.5	324.7	284.7	261.5	309.8	854.2	1075.2	1060.9
67.5°	422.4	364.0	315.1	280.0	247.2	218.0	206.1	253.8	287.1	277.6
70°	375.9	319.9	272.8	239.5	209.1	179.9	159.1	149.5	146.5	144.2
72.5°	324.1	275.2	226.4	194.2	165.6	138.8	119.7	108.4	105.4	103.1
75°	258.5	212.7	168.0	137.6	112.6	93.5	81.0	71.5	69.7	67.3
77.5°	171.0	136.4	100.1	81.6	66.7	56.6	48.3	42.3	41.1	39.9
80°	94.1	78.6	61.4	49.4	39.9	34.6	31.6	28.0	27.4	26.8
82.5°	56.0	47.1	35.1	28.0	23.2	20.8	19.1	17.3	16.7	16.1
85°	28.0	22.0	15.5	13.1	11.9	10.7	10.7	8.9	8.3	8.3
87.5°	7.1	6.0	3.6	3.0	3.0	3.0	2.4	1.8	1.8	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)