

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: P631275

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631275
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-SA1F-735-U-SLL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT 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: 6467.9 lumens
Efficiency: N/A
Efficacy: 96.2 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

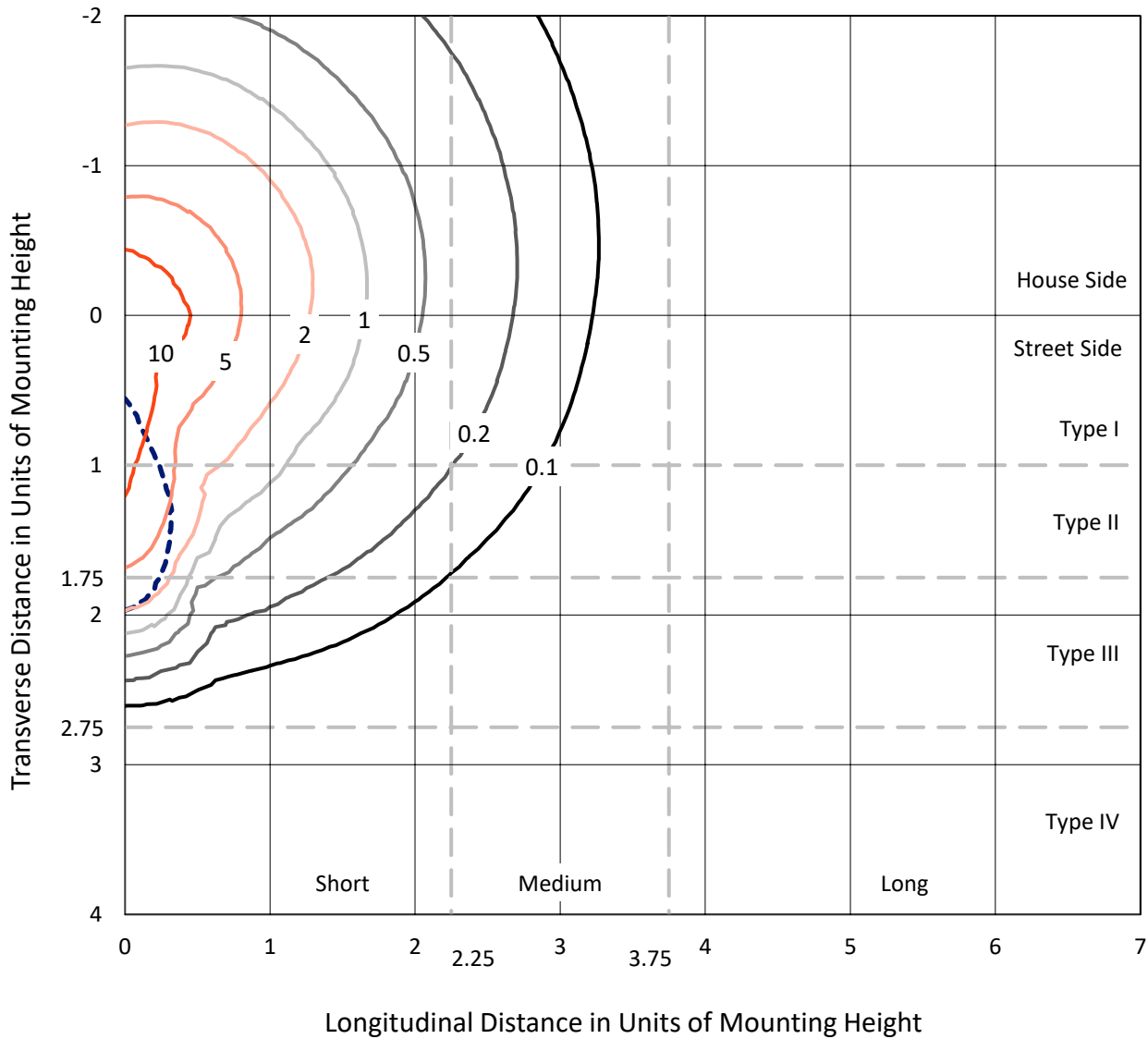
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P631275
 CATALOG NUMBER: GWS-SA1F-735-U-SLL-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

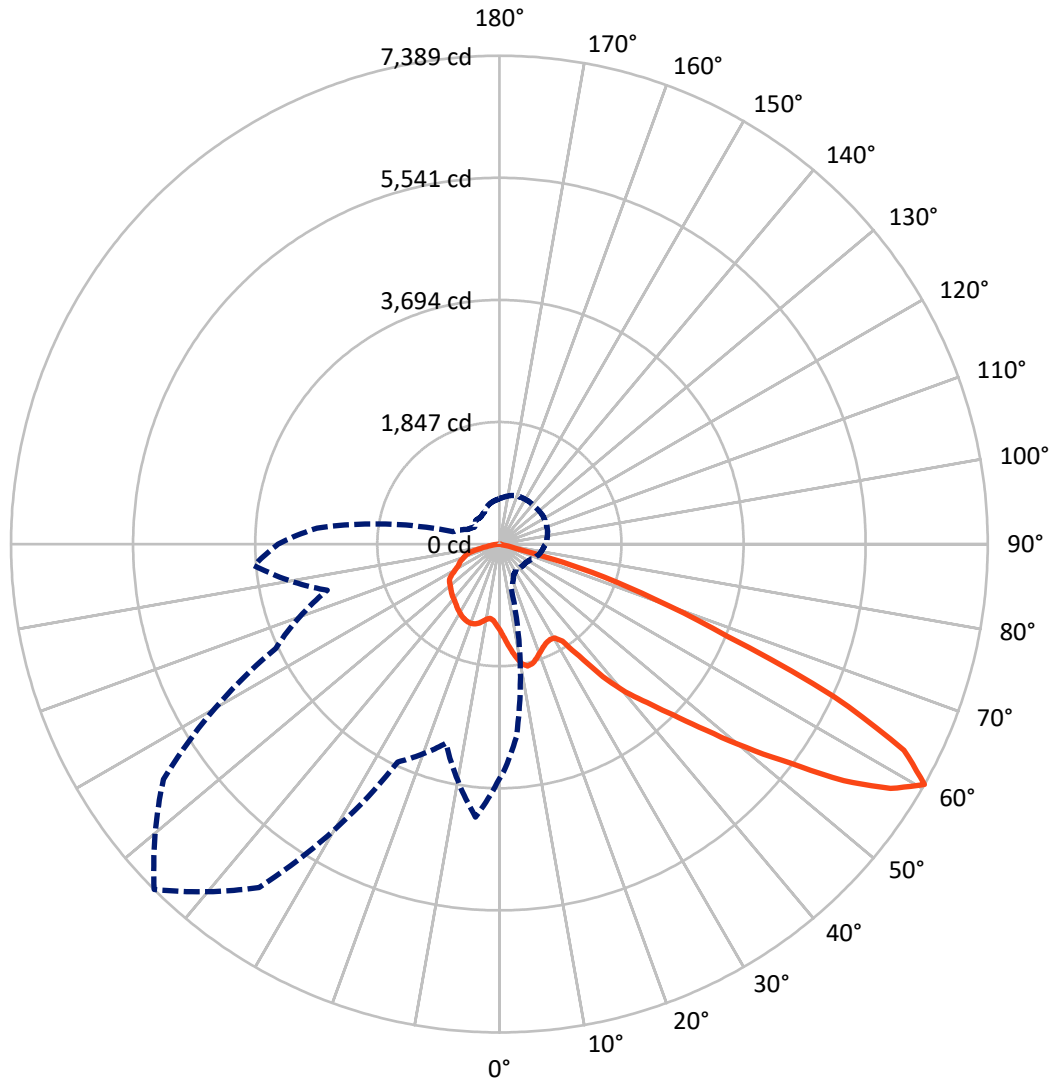
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.7 fc
 Type III - Short - N/A

REPORT NUMBER: P631275
CATALOG NUMBER: GWS-SA1F-735-U-SLL-W-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P631275
 CATALOG NUMBER: GWS-SA1F-735-U-SLL-W-GRSWH

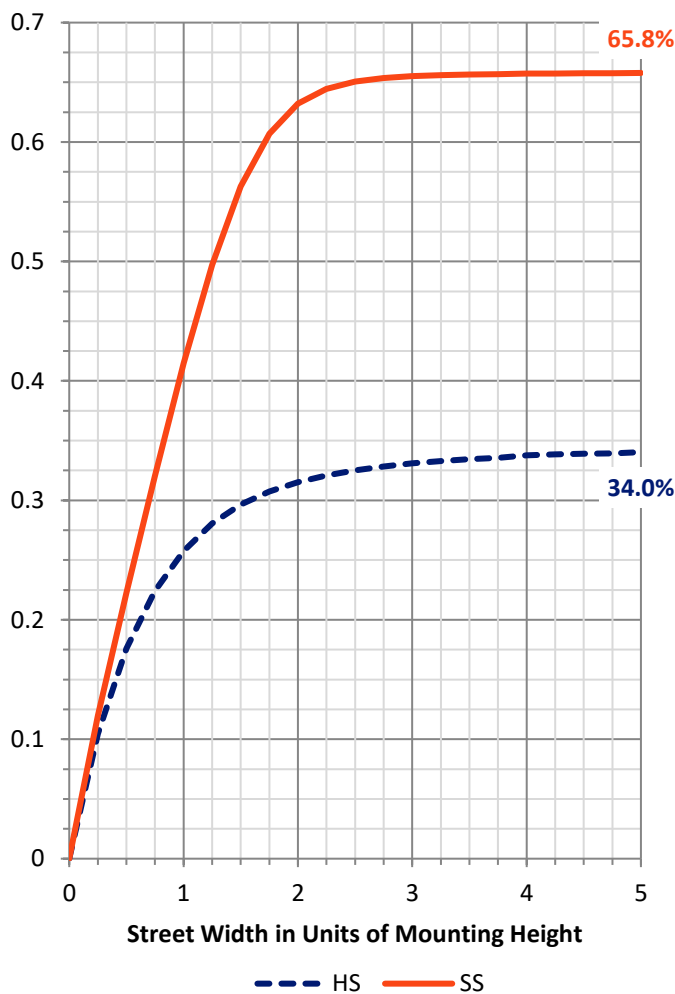
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2212.6	0.0	2212.6
	% Fixture	34.2	0.0	34.2
Street Side	Lumens	4255.3	0.0	4255.3
	% Fixture	65.8	0.0	65.8
Total	Lumens	6467.9	0.0	6467.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.5	2.0
10°-20°	408.8	6.3
20°-30°	665.8	10.3
30°-40°	935.3	14.5
40°-50°	1279.8	19.8
50°-60°	1641.9	25.4
60°-70°	1105.6	17.1
70°-80°	276.4	4.3
80°-90°	26.9	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°	6467.9	100.0
0°-180°	6467.9	100.0

Coefficient of Utilization



REPORT NUMBER: P631275

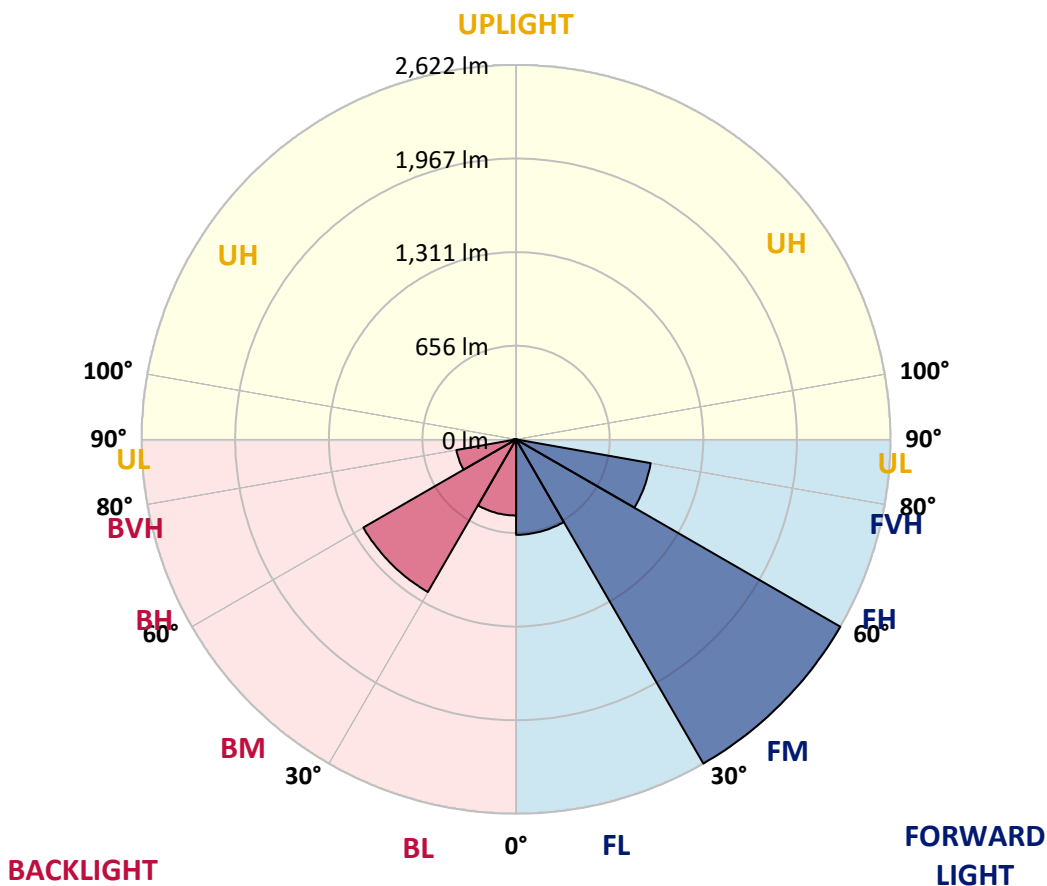
CATALOG NUMBER: GWS-SA1F-735-U-SLL-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	668.6	10.3			
FM (30°-60°)	2622.1	40.5			
FH (60°-80°)	957.5	14.8			G1/1800
FVH (80°-90°)	7.0	0.1			G0/10
BL (0°-30°)	533.4	8.2	B2/1000		
BM (30°-60°)	1234.8	19.1	B2/2500		
BH (60°-80°)	424.5	6.6	B1/500		G1/500
BVH (80°-90°)	19.9	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: P631275

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

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1304.5	1304.5	1304.5	1304.5	1304.5	1304.5	1304.5	1304.5	1304.5	1304.5	1304.5
2.5°	1380.2	1377.2	1374.2	1351.0	1345.0	1328.3	1316.4	1301.5	1280.1	1268.2	1258.0
5°	1466.5	1461.8	1445.7	1398.0	1367.1	1333.1	1305.1	1274.1	1241.4	1219.9	1203.2
7.5°	1548.1	1546.9	1519.5	1440.9	1390.9	1342.0	1303.9	1258.6	1211.6	1179.4	1158.0
10°	1623.8	1614.8	1582.1	1479.6	1414.1	1358.1	1317.0	1267.0	1212.2	1168.7	1140.1
12.5°	1690.5	1679.2	1633.9	1515.4	1434.4	1365.3	1320.6	1279.5	1243.2	1206.8	1174.1
15°	1745.3	1731.6	1685.7	1548.7	1452.2	1361.1	1298.6	1266.4	1278.9	1295.0	1258.6
17.5°	1796.5	1782.2	1726.2	1573.2	1457.6	1335.5	1244.3	1230.6	1293.8	1367.1	1350.4
20°	1839.4	1823.3	1758.4	1585.1	1448.1	1286.6	1174.1	1197.9	1281.3	1368.8	1395.6
22.5°	1885.9	1872.8	1794.7	1602.3	1436.1	1219.3	1115.1	1173.5	1259.8	1336.7	1377.2
25°	1960.3	1944.3	1851.3	1632.7	1430.2	1156.2	1072.8	1149.6	1230.0	1299.7	1331.3
27.5°	2068.1	2038.4	1928.8	1685.7	1436.7	1096.6	1046.0	1120.4	1195.5	1255.1	1280.7
30°	2185.5	2149.8	2014.5	1740.5	1446.3	1060.3	1031.7	1087.1	1142.5	1202.1	1230.0
32.5°	2324.3	2292.7	2106.3	1781.6	1426.0	1043.6	1021.0	1050.8	1094.8	1142.5	1165.7
35°	2489.9	2433.3	2206.3	1815.0	1360.5	1019.2	1011.4	1010.8	1034.1	1080.5	1106.7
37.5°	2668.0	2607.2	2329.6	1850.7	1258.6	980.5	988.8	963.8	985.2	1022.2	1051.9
40°	2813.9	2750.2	2454.1	1899.6	1131.2	919.7	938.8	912.0	925.1	963.2	996.5
42.5°	2956.9	2889.0	2570.3	1955.0	1007.9	860.1	869.7	859.5	863.7	903.6	950.1
45°	3144.5	3068.3	2713.3	1994.3	897.1	813.1	804.1	786.9	808.9	860.7	910.2
47.5°	3457.8	3366.7	2947.4	2019.9	816.7	786.3	745.2	735.1	762.5	820.2	871.5
50°	3824.2	3745.5	3321.4	2018.7	756.5	763.6	688.0	679.1	724.3	782.7	836.9
52.5°	4124.4	4044.6	3641.3	1959.1	707.1	715.4	654.6	629.6	691.6	745.8	800.0
55°	4366.8	4276.9	3788.4	1710.2	644.5	638.6	618.3	572.4	650.5	708.8	759.5
57.5°	4236.4	4129.2	3610.3	1300.3	580.2	542.7	555.8	521.8	594.5	667.7	716.6
60°	3552.0	3455.5	2933.1	692.2	510.5	453.3	480.7	486.1	533.1	618.3	668.3
62.5°	2439.8	2369.6	1987.7	419.9	402.7	364.0	406.8	445.6	480.7	552.8	596.3
65°	1193.7	1172.9	994.2	269.2	281.7	294.3	337.1	384.2	436.0	499.2	545.0
67.5°	328.8	331.2	301.4	210.3	222.2	256.7	290.7	328.2	380.0	438.4	484.9
70°	144.7	147.1	151.9	162.0	184.7	216.2	251.4	290.1	337.7	386.6	431.3
72.5°	100.7	103.1	110.2	123.3	143.6	173.3	206.7	243.6	293.1	334.2	371.1
75°	61.9	63.7	70.3	81.6	95.3	117.9	150.7	184.7	228.1	265.7	298.4
77.5°	32.8	31.6	35.7	43.5	55.4	67.3	89.3	110.8	141.8	172.1	199.5
80°	17.9	17.3	19.7	23.8	27.4	36.9	51.8	66.1	84.0	101.3	116.2
82.5°	7.7	7.1	7.7	10.1	12.5	17.9	26.2	36.3	46.5	58.4	67.9
85°	0.0	0.0	0.0	0.6	3.0	4.8	8.9	13.1	19.1	26.2	32.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	5.4
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: P631275

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1304.5	1304.5	1304.5	1304.5	1304.5	1304.5	1304.5	1304.5	1304.5	1304.5	1304.5
2.5°	1252.1	1237.2	1236.0	1224.1	1225.3	1225.9	1214.0	1209.2	1213.4	1218.1	1215.8
5°	1197.3	1181.8	1175.2	1163.9	1162.7	1157.4	1152.6	1146.7	1150.8	1155.0	1157.4
7.5°	1149.6	1139.5	1135.3	1132.4	1133.6	1131.2	1121.6	1116.3	1115.7	1117.5	1119.9
10°	1134.1	1125.8	1131.2	1139.5	1145.5	1149.6	1139.5	1130.6	1122.2	1118.7	1118.7
12.5°	1167.5	1156.8	1167.5	1176.4	1188.4	1191.3	1180.0	1170.5	1167.5	1171.1	1178.2
15°	1241.4	1216.3	1215.8	1221.1	1230.6	1235.4	1224.7	1219.9	1219.9	1242.6	1260.4
17.5°	1315.2	1274.1	1256.9	1253.9	1259.8	1261.6	1252.7	1248.5	1259.2	1303.3	1336.7
20°	1367.1	1317.0	1279.5	1272.3	1274.1	1274.7	1267.6	1264.6	1280.1	1333.7	1361.7
22.5°	1361.7	1324.8	1278.9	1270.0	1272.9	1271.7	1265.2	1264.0	1276.5	1323.0	1336.1
25°	1324.8	1296.2	1257.4	1251.5	1256.3	1255.7	1249.1	1246.1	1251.5	1282.5	1283.7
27.5°	1282.5	1257.4	1224.1	1222.3	1230.0	1234.2	1222.9	1214.0	1212.2	1233.0	1228.3
30°	1231.8	1213.4	1186.6	1187.8	1202.1	1204.4	1190.7	1177.6	1174.1	1185.4	1178.8
32.5°	1171.7	1165.7	1151.4	1154.4	1168.1	1172.9	1158.6	1144.9	1140.7	1144.3	1130.6
35°	1120.4	1118.1	1119.3	1124.6	1136.5	1140.1	1128.2	1117.5	1111.5	1099.0	1081.1
37.5°	1067.4	1074.0	1091.3	1101.4	1107.9	1106.7	1100.2	1092.4	1082.9	1059.7	1037.6
40°	1018.0	1034.7	1065.6	1077.0	1079.3	1079.9	1075.2	1068.6	1056.7	1025.7	1000.7
42.5°	979.9	998.3	1039.4	1056.7	1057.9	1059.1	1054.3	1049.0	1032.3	991.2	966.8
45°	940.0	964.4	1012.6	1033.5	1032.3	1031.7	1027.5	1025.1	1005.5	957.8	931.0
47.5°	906.0	934.6	986.4	1004.3	1003.7	1003.1	1000.1	1000.1	980.5	928.6	898.3
50°	872.6	905.4	959.6	974.5	975.7	974.5	973.3	975.1	951.9	896.5	866.7
52.5°	836.3	873.2	929.8	943.5	950.7	953.7	953.7	949.5	922.1	864.3	831.5
55°	796.4	831.5	897.1	915.5	921.5	926.9	926.9	918.5	892.9	834.5	799.4
57.5°	747.0	777.9	829.8	848.2	862.5	866.1	866.1	852.4	831.5	775.6	747.0
60°	693.4	720.2	755.3	775.0	785.7	778.5	783.9	780.3	763.6	711.8	688.0
62.5°	621.9	649.3	688.0	708.2	713.0	705.9	713.0	712.4	689.8	643.3	614.7
65°	570.6	597.5	635.6	661.8	669.5	667.7	672.5	665.4	637.4	593.3	565.9
67.5°	509.9	538.5	582.6	611.7	627.8	629.6	636.2	621.3	592.7	544.4	509.9
70°	452.1	476.5	510.5	537.9	560.5	571.8	573.0	551.6	515.8	475.9	450.9
72.5°	391.4	416.4	457.5	487.3	515.8	529.0	529.0	502.7	464.0	419.9	393.1
75°	317.5	340.7	378.2	410.4	443.2	459.9	459.3	436.6	393.7	352.0	324.0
77.5°	215.0	232.3	256.1	280.6	285.3	298.4	305.0	276.4	252.6	229.9	204.9
80°	125.1	135.8	148.9	162.6	165.6	169.8	159.0	148.3	135.8	120.9	109.6
82.5°	73.3	80.4	87.0	97.7	99.5	100.7	91.1	86.4	76.2	67.3	60.2
85°	35.7	38.1	44.1	49.4	47.1	45.9	41.7	36.9	32.8	29.2	25.6
87.5°	7.1	7.1	10.7	10.1	8.3	7.1	4.2	5.4	1.2	1.2	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: P631275

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

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1304.5	1304.5	1304.5	1304.5	1304.5	1304.5	1304.5	1304.5	1304.5	1304.5	1304.5
2.5°	1223.5	1233.6	1246.1	1262.8	1281.9	1302.1	1321.8	1336.7	1351.6	1373.6	1370.0
5°	1161.0	1178.2	1197.9	1223.5	1254.5	1289.6	1328.9	1368.2	1410.5	1446.3	1461.8
7.5°	1124.6	1143.7	1166.9	1200.3	1240.2	1283.1	1338.5	1402.2	1470.7	1517.8	1546.9
10°	1124.6	1149.0	1179.4	1211.6	1246.7	1290.8	1359.3	1439.1	1527.3	1589.2	1623.2
12.5°	1189.5	1214.0	1220.5	1219.3	1239.0	1287.8	1376.0	1477.8	1583.3	1648.8	1690.5
15°	1290.8	1299.1	1249.7	1204.4	1207.4	1266.4	1383.7	1508.8	1631.5	1710.2	1755.4
17.5°	1358.7	1336.7	1248.5	1169.3	1152.6	1230.0	1383.7	1538.6	1682.8	1771.5	1813.8
20°	1364.1	1309.3	1218.1	1135.3	1092.4	1181.8	1374.2	1561.2	1732.2	1830.5	1875.7
22.5°	1317.0	1262.8	1186.0	1106.2	1043.0	1123.4	1358.7	1578.5	1774.5	1885.9	1941.9
25°	1263.4	1218.1	1153.2	1076.4	1009.1	1064.5	1344.4	1607.7	1833.5	1960.9	2017.5
27.5°	1211.0	1172.9	1113.9	1051.3	990.0	1013.2	1335.5	1650.6	1903.7	2067.6	2116.4
30°	1159.8	1125.2	1071.6	1027.5	979.9	979.9	1327.7	1700.0	1996.7	2187.3	2236.1
32.5°	1107.9	1075.2	1031.7	1004.3	973.9	966.8	1306.3	1746.5	2092.6	2318.3	2368.4
35°	1059.7	1026.9	993.6	982.3	970.9	956.6	1253.3	1782.8	2186.1	2471.4	2514.3
37.5°	1014.4	982.8	957.8	954.9	956.0	929.2	1169.9	1813.2	2302.8	2628.1	2650.7
40°	975.1	940.0	920.3	919.7	925.7	885.2	1064.5	1856.7	2436.3	2760.9	2751.4
42.5°	940.0	903.0	879.2	884.6	881.0	841.1	961.4	1896.6	2552.4	2885.4	2866.3
45°	905.4	869.7	836.3	844.1	839.9	813.7	873.8	1925.8	2681.1	3034.9	3037.3
47.5°	872.1	836.9	803.6	794.0	793.4	805.3	806.5	1935.3	2890.8	3275.6	3221.4
50°	841.1	805.9	771.4	739.2	751.7	788.7	756.5	1928.2	3204.7	3541.2	3389.9
52.5°	808.9	775.6	737.4	679.7	712.4	748.8	711.8	1902.6	3396.5	3775.9	3685.4
55°	772.0	740.4	688.6	618.3	658.2	666.0	666.0	1654.8	3478.1	4008.2	4064.2
57.5°	722.5	680.8	598.6	542.1	577.8	548.0	617.1	1158.0	3343.5	3935.0	4152.4
60°	666.5	621.9	534.9	494.4	505.1	452.7	526.0	726.1	2771.0	3348.2	3724.7
62.5°	592.7	551.6	479.5	447.9	425.9	369.3	423.5	459.3	1899.6	2486.3	2743.0
65°	543.2	498.0	433.6	391.9	346.7	297.2	281.2	301.4	1021.6	1391.5	1564.8
67.5°	484.9	440.2	379.4	327.0	290.7	254.9	226.9	219.8	350.3	463.4	501.6
70°	429.5	386.6	336.0	287.1	250.8	215.6	188.2	168.6	162.0	160.8	158.4
72.5°	372.9	333.0	290.7	245.4	205.5	173.3	148.9	126.3	116.8	113.8	110.8
75°	305.6	274.0	231.7	182.9	150.7	120.9	101.9	87.0	78.6	75.6	72.1
77.5°	196.6	182.3	145.3	117.9	91.1	72.1	61.9	52.4	47.1	45.9	42.9
80°	104.8	97.7	80.4	67.9	54.2	44.1	38.7	33.4	30.4	29.2	28.0
82.5°	58.4	53.0	44.7	39.3	31.6	26.8	23.8	21.4	19.7	19.1	18.5
85°	26.2	22.6	17.9	16.7	14.9	13.7	13.1	11.9	11.3	10.7	10.1
87.5°	1.2	2.4	3.0	2.4	2.4	3.6	4.2	4.2	3.6	3.6	3.0
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: P631275

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

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1304.5	1304.5	1304.5	1304.5	1304.5	1304.5	1304.5	1304.5	1304.5	1304.5
2.5°	1392.1	1409.9	1411.7	1417.7	1409.9	1408.2	1395.6	1388.5	1381.9	1380.2
5°	1500.5	1536.2	1550.5	1560.6	1551.1	1546.3	1518.9	1490.4	1474.3	1466.5
7.5°	1611.9	1665.5	1693.5	1706.0	1707.2	1685.7	1638.7	1585.1	1558.3	1548.1
10°	1711.3	1777.5	1814.4	1838.2	1829.9	1803.7	1739.3	1666.7	1632.7	1623.8
12.5°	1785.2	1848.3	1876.9	1892.4	1891.8	1877.5	1816.8	1738.2	1699.4	1690.5
15°	1832.9	1870.4	1872.2	1875.7	1885.9	1904.9	1873.4	1800.7	1757.8	1745.3
17.5°	1870.4	1855.5	1827.5	1818.0	1840.6	1893.6	1912.7	1853.7	1807.2	1796.5
20°	1894.2	1819.2	1769.7	1751.3	1777.5	1863.8	1936.5	1901.4	1853.1	1839.4
22.5°	1912.7	1785.2	1705.4	1692.9	1720.3	1831.7	1960.9	1958.0	1904.9	1885.9
25°	1941.9	1762.6	1660.1	1651.2	1676.8	1816.2	1993.7	2034.8	1987.7	1960.3
27.5°	1987.7	1760.2	1636.9	1633.9	1669.1	1829.9	2040.7	2147.4	2088.4	2068.1
30°	2051.5	1782.8	1642.2	1648.2	1691.1	1879.3	2114.0	2276.0	2217.1	2185.5
32.5°	2143.2	1843.6	1723.9	1749.5	1781.0	1958.5	2221.2	2415.4	2370.7	2324.3
35°	2264.1	2010.4	1965.1	2074.1	2044.3	2131.9	2350.5	2584.6	2530.4	2489.9
37.5°	2425.5	2352.3	2394.0	2544.1	2472.0	2459.5	2508.3	2738.3	2708.5	2668.0
40°	2651.9	2666.8	2743.6	2940.8	2836.6	2756.1	2701.9	2853.8	2864.0	2813.9
42.5°	2802.0	2870.5	3055.8	3279.7	3136.2	2943.8	2864.0	3001.6	3002.2	2956.9
45°	2858.0	3037.3	3424.5	3682.4	3442.3	3051.0	2953.3	3202.3	3196.3	3144.5
47.5°	2837.7	3177.9	3807.5	4201.8	3835.5	3127.2	2940.8	3488.2	3536.5	3457.8
50°	2795.5	3319.0	4254.8	4838.0	4318.0	3208.3	2921.7	3805.1	3884.9	3824.2
52.5°	2838.3	3476.3	4783.8	5495.6	4923.2	3337.5	3050.4	4211.9	4197.7	4124.4
55°	2974.2	3662.1	5426.5	6321.8	5587.9	3556.1	3381.0	4599.7	4454.4	4366.8
57.5°	2967.6	3795.0	5990.0	6975.2	6166.3	3735.4	3496.0	4640.8	4347.2	4236.4
60°	2693.6	3734.2	6204.4	7388.6	6340.9	3636.5	3117.7	4145.2	3668.1	3552.0
62.5°	2010.4	3313.7	5788.7	6871.0	5847.0	3140.9	2344.5	2975.3	2635.8	2439.8
65°	1286.0	2592.3	4866.6	5566.5	4819.5	2402.3	1396.2	1595.2	1249.7	1193.7
67.5°	547.4	1829.9	3783.1	3720.5	3605.6	1556.5	539.1	449.1	334.8	328.8
70°	181.1	1244.9	2332.0	2481.5	2153.3	1072.2	178.1	150.7	150.1	144.7
72.5°	118.5	668.3	1312.8	1461.8	1385.5	617.1	107.8	100.7	103.1	100.7
75°	70.9	145.3	221.0	287.1	221.0	103.6	64.9	63.7	64.9	61.9
77.5°	41.7	40.5	39.3	39.3	38.7	35.7	32.8	31.6	32.2	32.8
80°	26.8	25.6	24.4	23.8	20.8	19.7	18.5	17.3	17.3	17.9
82.5°	17.3	16.1	14.9	13.1	10.7	8.9	8.3	7.1	7.1	7.7
85°	8.9	7.1	5.4	4.2	2.4	1.2	0.0	0.0	0.0	0.0
87.5°	1.8	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

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