

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: P631385

Luminaire Tested: GWS-SA1F-750-U-SLL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631385  
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-750-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) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

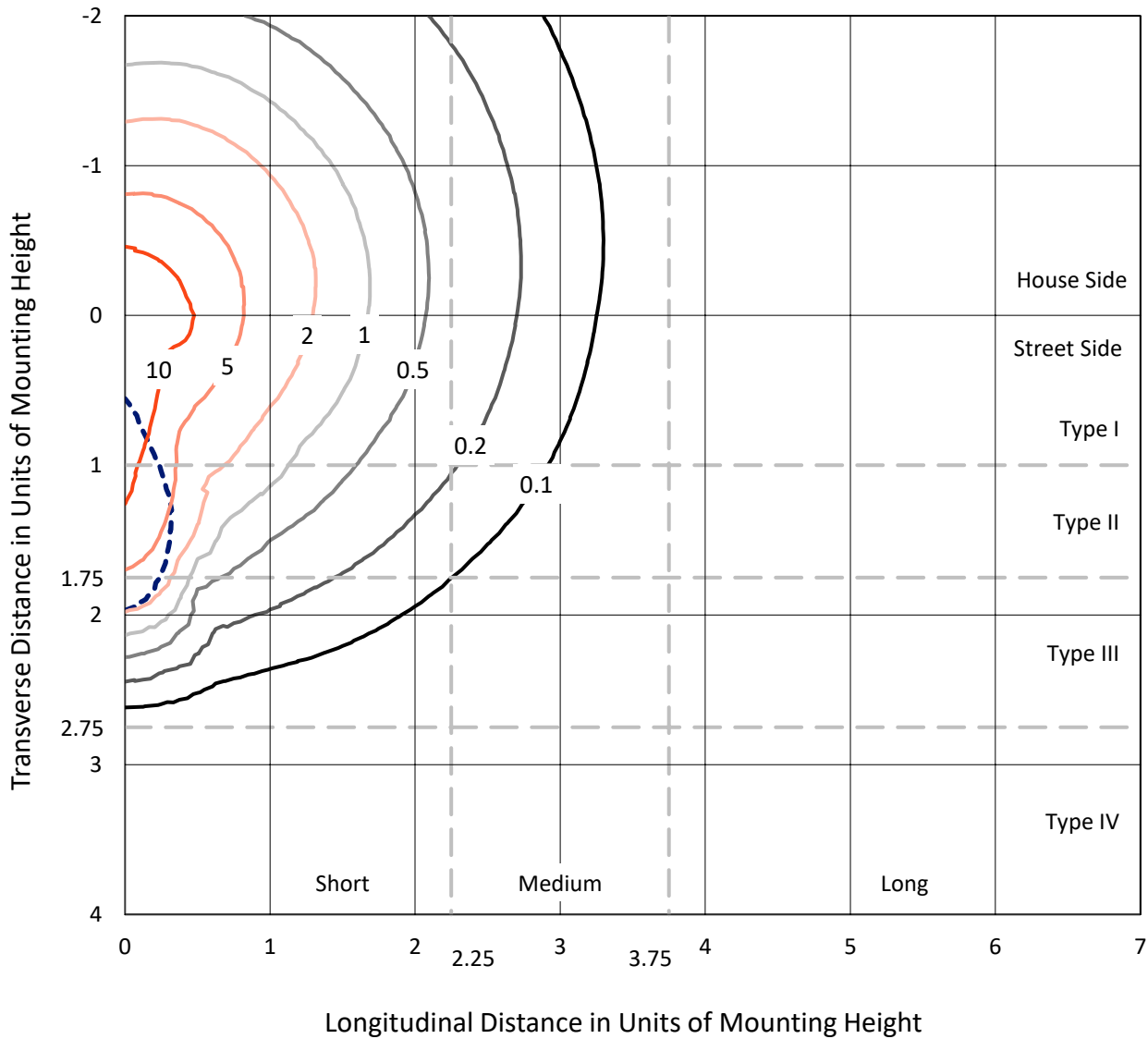
Lumens per Lamp: N/A  
Luminaire Lumens: 6708 lumens  
Efficiency: N/A  
Efficacy: 99.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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



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### Iso-Footcandle Lines of Horizontal Illumination

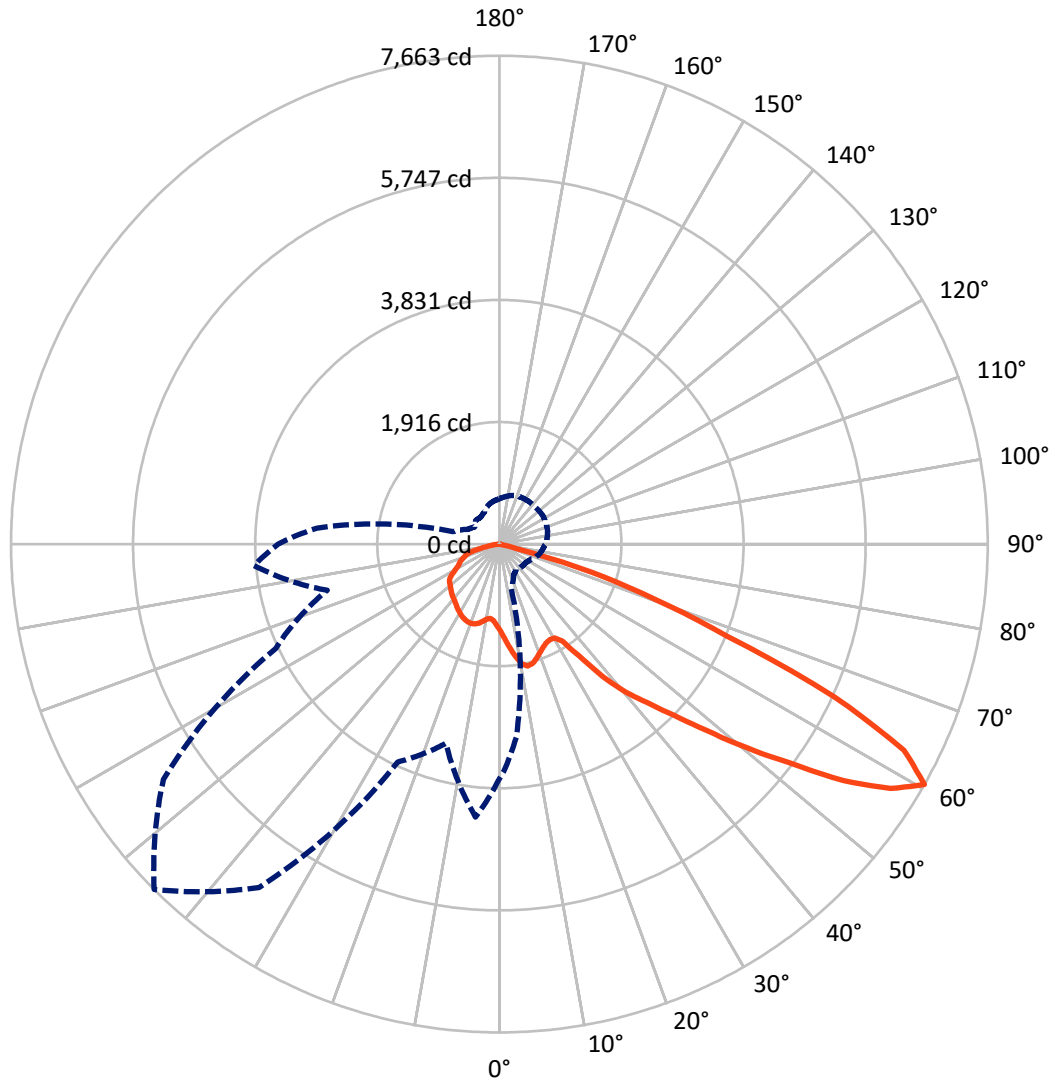
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2294.7	0.0	2294.7
	% Fixture	34.2	0.0	34.2
<b>Street Side</b>	Lumens	4413.3	0.0	4413.3
	% Fixture	65.8	0.0	65.8
<b>Total</b>	Lumens	6708.0	0.0	6708.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.2	2.0
10°-20°	424.0	6.3
20°-30°	690.5	10.3
30°-40°	970.0	14.5
40°-50°	1327.3	19.8
50°-60°	1702.9	25.4
60°-70°	1146.6	17.1
70°-80°	286.7	4.3
80°-90°	27.9	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°	6708.0	100.0
0°-180°	6708.0	100.0

**Coefficient of Utilization**



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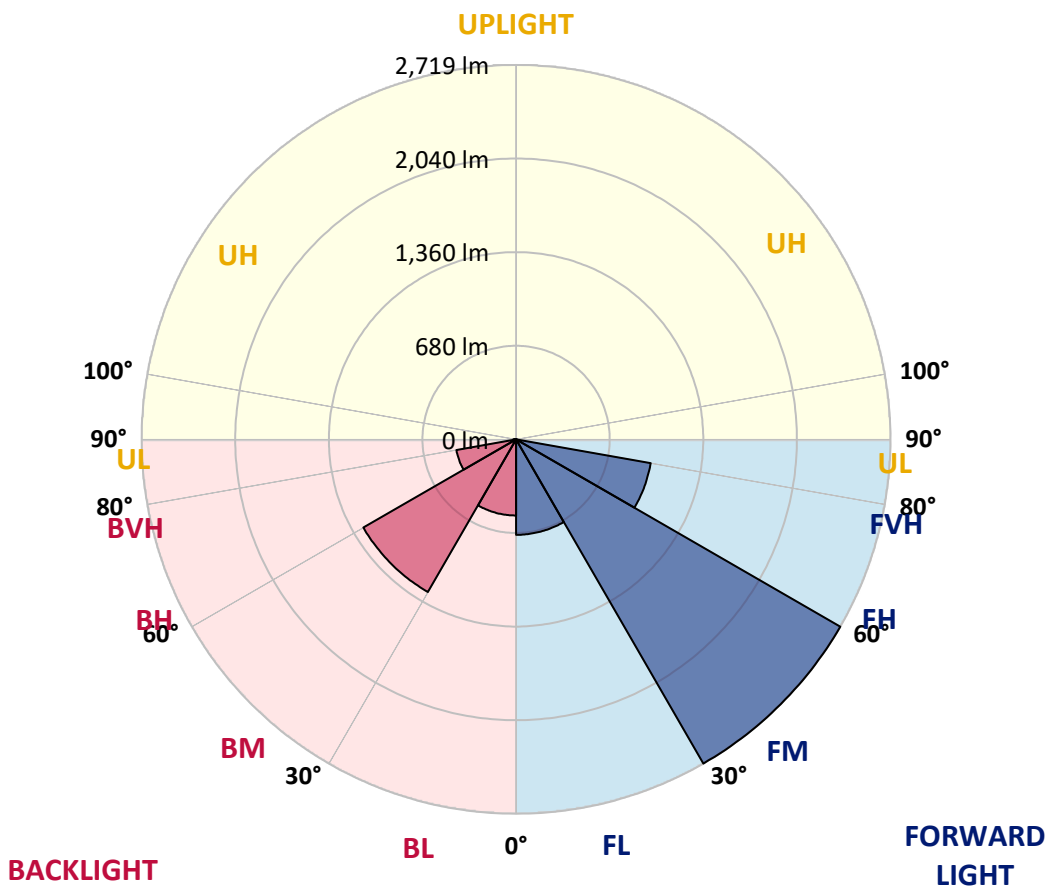
CATALOG NUMBER: GWS-SA1F-750-U-SLL-W-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	693.5	10.3			
FM (30°-60°)	2719.5	40.5			
FH (60°-80°)	993.1	14.8			G1/1800
FVH (80°-90°)	7.3	0.1			G0/10
BL (0°-30°)	553.2	8.2	B2/1000		
BM (30°-60°)	1280.7	19.1	B2/2500		
BH (60°-80°)	440.2	6.6	B1/500		G1/500
BVH (80°-90°)	20.7	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1352.9	1352.9	1352.9	1352.9	1352.9	1352.9	1352.9	1352.9	1352.9	1352.9	1352.9
2.5°	1431.4	1428.3	1425.2	1401.1	1394.9	1377.6	1365.3	1349.8	1327.6	1315.2	1304.7
5°	1521.0	1516.0	1499.3	1449.9	1417.8	1382.6	1353.6	1321.4	1287.4	1265.2	1247.9
7.5°	1605.6	1604.4	1575.9	1494.4	1442.5	1391.9	1352.3	1305.4	1256.6	1223.2	1201.0
10°	1684.1	1674.8	1640.8	1534.6	1466.6	1408.5	1365.9	1314.0	1257.2	1212.1	1182.4
12.5°	1753.3	1741.5	1694.6	1571.6	1487.6	1415.9	1369.6	1327.0	1289.3	1251.6	1217.6
15°	1810.1	1795.9	1748.3	1606.2	1506.1	1411.6	1346.8	1313.4	1326.4	1343.0	1305.4
17.5°	1863.2	1848.4	1790.3	1631.5	1511.7	1385.1	1290.5	1276.3	1341.8	1417.8	1400.5
20°	1907.7	1891.0	1823.7	1643.9	1501.8	1334.4	1217.6	1242.4	1328.8	1419.7	1447.5
22.5°	1955.9	1942.3	1861.4	1661.8	1489.5	1264.6	1156.5	1217.0	1306.6	1386.3	1428.3
25°	2033.1	2016.4	1920.1	1693.3	1483.3	1199.1	1112.6	1192.3	1275.7	1348.0	1380.7
27.5°	2144.9	2114.0	2000.4	1748.3	1490.1	1137.3	1084.8	1162.0	1239.9	1301.7	1328.2
30°	2266.6	2229.6	2089.3	1805.1	1500.0	1099.6	1070.0	1127.4	1184.9	1246.7	1275.7
32.5°	2410.6	2377.8	2184.5	1847.8	1479.0	1082.3	1058.9	1089.8	1135.5	1184.9	1209.0
35°	2582.3	2523.6	2288.2	1882.4	1411.0	1057.0	1049.0	1048.4	1072.5	1120.6	1147.8
37.5°	2767.0	2704.0	2416.1	1919.4	1305.4	1016.9	1025.5	999.6	1021.8	1060.1	1091.0
40°	2918.4	2852.3	2545.2	1970.1	1173.2	953.8	973.6	945.8	959.4	998.9	1033.5
42.5°	3066.6	2996.2	2665.7	2027.5	1045.3	892.1	902.0	891.5	895.8	937.2	985.4
45°	3261.2	3182.2	2814.0	2068.3	930.4	843.3	834.0	816.1	838.9	892.7	944.0
47.5°	3586.2	3491.7	3056.8	2094.9	847.0	815.5	772.8	762.3	790.8	850.7	903.8
50°	3966.1	3884.6	3444.7	2093.6	784.6	792.0	713.5	704.3	751.2	811.8	868.0
52.5°	4277.5	4194.7	3776.5	2031.9	733.3	742.0	678.9	653.0	717.2	773.5	829.7
55°	4528.9	4435.6	3929.1	1773.6	668.4	662.3	641.3	593.7	674.6	735.2	787.7
57.5°	4393.6	4282.4	3744.3	1348.6	601.7	562.8	576.4	541.2	616.5	692.5	743.2
60°	3683.8	3583.7	3041.9	717.9	529.4	470.1	498.5	504.1	552.9	641.3	693.1
62.5°	2530.4	2457.5	2061.5	435.5	417.6	377.5	421.9	462.1	498.5	573.3	618.4
65°	1238.0	1216.4	1031.1	279.2	292.2	305.2	349.7	398.5	452.2	517.7	565.3
67.5°	341.0	343.5	312.6	218.1	230.4	266.3	301.5	340.4	394.1	454.7	502.9
70°	150.1	152.6	157.5	168.0	191.5	224.3	260.7	300.9	350.3	400.9	447.3
72.5°	104.4	106.9	114.3	127.9	148.9	179.8	214.4	252.7	303.9	346.6	384.9
75°	64.2	66.1	72.9	84.6	98.8	122.3	156.3	191.5	236.6	275.5	309.5
77.5°	34.0	32.7	37.1	45.1	57.5	69.8	92.7	114.9	147.0	178.5	207.0
80°	18.5	17.9	20.4	24.7	28.4	38.3	53.7	68.6	87.1	105.0	120.5
82.5°	8.0	7.4	8.0	10.5	13.0	18.5	27.2	37.7	48.2	60.5	70.4
85°	0.0	0.0	0.0	0.6	3.1	4.9	9.3	13.6	19.8	27.2	33.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	5.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1352.9	1352.9	1352.9	1352.9	1352.9	1352.9	1352.9	1352.9	1352.9	1352.9	1352.9
2.5°	1298.6	1283.1	1281.9	1269.5	1270.8	1271.4	1259.0	1254.1	1258.4	1263.4	1260.9
5°	1241.7	1225.7	1218.9	1207.1	1205.9	1200.3	1195.4	1189.2	1193.5	1197.9	1200.3
7.5°	1192.3	1181.8	1177.5	1174.4	1175.6	1173.2	1163.3	1157.7	1157.1	1159.0	1161.4
10°	1176.2	1167.6	1173.2	1181.8	1188.0	1192.3	1181.8	1172.5	1163.9	1160.2	1160.2
12.5°	1210.8	1199.7	1210.8	1220.1	1232.5	1235.6	1223.8	1213.9	1210.8	1214.6	1222.0
15°	1287.4	1261.5	1260.9	1266.4	1276.3	1281.3	1270.2	1265.2	1265.2	1288.7	1307.2
17.5°	1364.1	1321.4	1303.5	1300.4	1306.6	1308.5	1299.2	1294.9	1306.0	1351.7	1386.3
20°	1417.8	1365.9	1327.0	1319.6	1321.4	1322.0	1314.6	1311.5	1327.6	1383.2	1412.2
22.5°	1412.2	1373.9	1326.4	1317.1	1320.2	1319.0	1312.2	1310.9	1323.9	1372.1	1385.7
25°	1373.9	1344.3	1304.1	1298.0	1302.9	1302.3	1295.5	1292.4	1298.0	1330.1	1331.3
27.5°	1330.1	1304.1	1269.5	1267.7	1275.7	1280.0	1268.3	1259.0	1257.2	1278.8	1273.9
30°	1277.6	1258.4	1230.6	1231.8	1246.7	1249.1	1234.9	1221.3	1217.6	1229.4	1222.6
32.5°	1215.2	1209.0	1194.2	1197.3	1211.5	1216.4	1201.6	1187.4	1183.0	1186.8	1172.5
35°	1162.0	1159.6	1160.8	1166.4	1178.7	1182.4	1170.1	1159.0	1152.8	1139.8	1121.3
37.5°	1107.1	1113.9	1131.8	1142.3	1149.1	1147.8	1141.0	1133.0	1123.1	1099.0	1076.2
40°	1055.8	1073.1	1105.2	1116.9	1119.4	1120.0	1115.1	1108.3	1095.9	1063.8	1037.9
42.5°	1016.2	1035.4	1078.0	1095.9	1097.2	1098.4	1093.5	1087.9	1070.6	1028.0	1002.7
45°	974.9	1000.2	1050.2	1071.8	1070.6	1070.0	1065.7	1063.2	1042.8	993.4	965.6
47.5°	939.6	969.3	1023.0	1041.6	1041.0	1040.3	1037.2	1037.2	1016.9	963.1	931.6
50°	905.0	939.0	995.2	1010.7	1011.9	1010.7	1009.4	1011.3	987.2	929.8	898.9
52.5°	867.4	905.7	964.4	978.6	986.0	989.1	989.1	984.7	956.3	896.4	862.4
55°	826.0	862.4	930.4	949.5	955.7	961.3	961.3	952.6	926.0	865.5	829.1
57.5°	774.7	806.8	860.6	879.7	894.5	898.2	898.2	884.0	862.4	804.3	774.7
60°	719.1	746.9	783.3	803.7	814.8	807.4	813.0	809.3	792.0	738.2	713.5
62.5°	645.0	673.4	713.5	734.5	739.5	732.1	739.5	738.9	715.4	667.2	637.5
65°	591.8	619.6	659.2	686.4	694.4	692.5	697.5	690.1	661.0	615.3	586.9
67.5°	528.8	558.5	604.2	634.5	651.1	653.0	659.8	644.3	614.7	564.6	528.8
70°	468.9	494.2	529.4	557.9	581.3	593.1	594.3	572.1	535.0	493.6	467.7
72.5°	405.9	431.8	474.5	505.3	535.0	548.6	548.6	521.4	481.2	435.5	407.7
75°	329.3	353.4	392.3	425.6	459.6	476.9	476.3	452.8	408.4	365.1	336.1
77.5°	223.0	240.9	265.6	291.0	295.9	309.5	316.3	286.6	261.9	238.5	212.5
80°	129.7	140.9	154.4	168.7	171.7	176.1	164.9	153.8	140.9	125.4	113.7
82.5°	76.0	83.4	90.2	101.3	103.2	104.4	94.5	89.6	79.1	69.8	62.4
85°	37.1	39.5	45.7	51.3	48.8	47.6	43.2	38.3	34.0	30.3	26.6
87.5°	7.4	7.4	11.1	10.5	8.6	7.4	4.3	5.6	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





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CATALOG NUMBER: GWS-SA1F-750-U-SLL-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1352.9	1352.9	1352.9	1352.9	1352.9	1352.9	1352.9	1352.9	1352.9	1352.9	1352.9
2.5°	1268.9	1279.4	1292.4	1309.7	1329.5	1350.5	1370.8	1386.3	1401.7	1424.6	1420.9
5°	1204.0	1222.0	1242.4	1268.9	1301.0	1337.5	1378.3	1419.0	1462.9	1500.0	1516.0
7.5°	1166.4	1186.1	1210.2	1244.8	1286.2	1330.7	1388.1	1454.2	1525.3	1574.1	1604.4
10°	1166.4	1191.7	1223.2	1256.6	1293.0	1338.7	1409.8	1492.5	1584.0	1648.2	1683.4
12.5°	1233.7	1259.0	1265.8	1264.6	1285.0	1335.6	1427.1	1532.7	1642.1	1710.0	1753.3
15°	1338.7	1347.4	1296.1	1249.1	1252.2	1313.4	1435.1	1564.8	1692.1	1773.6	1820.6
17.5°	1409.2	1386.3	1294.9	1212.7	1195.4	1275.7	1435.1	1595.7	1745.2	1837.3	1881.1
20°	1414.7	1357.9	1263.4	1177.5	1133.0	1225.7	1425.2	1619.2	1796.5	1898.4	1945.4
22.5°	1365.9	1309.7	1230.0	1147.2	1081.7	1165.1	1409.2	1637.1	1840.4	1955.9	2014.0
25°	1310.3	1263.4	1196.0	1116.3	1046.5	1104.0	1394.3	1667.4	1901.5	2033.7	2092.4
27.5°	1255.9	1216.4	1155.2	1090.4	1026.7	1050.8	1385.1	1711.9	1974.4	2144.3	2195.0
30°	1202.8	1167.0	1111.4	1065.7	1016.2	1016.2	1377.0	1763.1	2070.8	2268.5	2319.1
32.5°	1149.1	1115.1	1070.0	1041.6	1010.1	1002.7	1354.8	1811.3	2170.3	2404.4	2456.3
35°	1099.0	1065.0	1030.5	1018.7	1007.0	992.2	1299.8	1849.0	2267.2	2563.2	2607.6
37.5°	1052.1	1019.3	993.4	990.3	991.5	963.7	1213.3	1880.5	2388.3	2725.6	2749.1
40°	1011.3	974.9	954.5	953.8	960.0	918.0	1104.0	1925.6	2526.7	2863.4	2853.5
42.5°	974.9	936.6	911.8	917.4	913.7	872.3	997.1	1967.0	2647.2	2992.5	2972.7
45°	939.0	902.0	867.4	875.4	871.1	843.9	906.3	1997.3	2780.6	3147.6	3150.0
47.5°	904.4	868.0	833.4	823.5	822.9	835.2	836.5	2007.2	2998.1	3397.2	3340.9
50°	872.3	835.9	800.0	766.7	779.6	817.9	784.6	1999.7	3323.6	3672.7	3515.8
52.5°	838.9	804.3	764.8	704.9	738.9	776.5	738.2	1973.2	3522.6	3916.1	3822.2
55°	800.6	767.9	714.2	641.3	682.6	690.7	690.7	1716.2	3607.2	4157.0	4215.1
57.5°	749.4	706.1	620.9	562.2	599.2	568.4	640.0	1201.0	3467.6	4081.0	4306.5
60°	691.3	645.0	554.8	512.8	523.9	469.5	545.5	753.1	2873.9	3472.5	3863.0
62.5°	614.7	572.1	497.3	464.6	441.7	383.0	439.2	476.3	1970.1	2578.6	2844.9
65°	563.4	516.5	449.7	406.5	359.5	308.3	291.6	312.6	1059.5	1443.1	1622.9
67.5°	502.9	456.5	393.5	339.2	301.5	264.4	235.4	228.0	363.3	480.6	520.2
70°	445.4	400.9	348.4	297.8	260.1	223.6	195.2	174.8	168.0	166.8	164.3
72.5°	386.7	345.3	301.5	254.5	213.1	179.8	154.4	131.0	121.1	118.0	114.9
75°	316.9	284.2	240.3	189.7	156.3	125.4	105.6	90.2	81.5	78.5	74.8
77.5°	203.9	189.0	150.7	122.3	94.5	74.8	64.2	54.4	48.8	47.6	44.5
80°	108.7	101.3	83.4	70.4	56.2	45.7	40.2	34.6	31.5	30.3	29.0
82.5°	60.5	55.0	46.3	40.8	32.7	27.8	24.7	22.2	20.4	19.8	19.2
85°	27.2	23.5	18.5	17.3	15.4	14.2	13.6	12.4	11.7	11.1	10.5
87.5°	1.2	2.5	3.1	2.5	2.5	3.7	4.3	4.3	3.7	3.7	3.1
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: P631385

CATALOG NUMBER: GWS-SA1F-750-U-SLL-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1352.9	1352.9	1352.9	1352.9	1352.9	1352.9	1352.9	1352.9	1352.9	1352.9
2.5°	1443.7	1462.3	1464.1	1470.3	1462.3	1460.4	1447.5	1440.0	1433.2	1431.4
5°	1556.2	1593.2	1608.1	1618.6	1608.7	1603.7	1575.3	1545.7	1529.0	1521.0
7.5°	1671.7	1727.3	1756.3	1769.3	1770.5	1748.3	1699.5	1643.9	1616.1	1605.6
10°	1774.9	1843.4	1881.7	1906.5	1897.8	1870.6	1803.9	1728.5	1693.3	1684.1
12.5°	1851.5	1917.0	1946.6	1962.7	1962.1	1947.2	1884.2	1802.7	1762.5	1753.3
15°	1900.9	1939.8	1941.7	1945.4	1955.9	1975.7	1942.9	1867.5	1823.1	1810.1
17.5°	1939.8	1924.4	1895.3	1885.5	1908.9	1963.9	1983.7	1922.5	1874.3	1863.2
20°	1964.5	1886.7	1835.4	1816.3	1843.4	1933.0	2008.4	1971.9	1921.9	1907.7
22.5°	1983.7	1851.5	1768.7	1755.7	1784.1	1899.7	2033.7	2030.6	1975.7	1955.9
25°	2014.0	1828.0	1721.7	1712.5	1739.0	1883.6	2067.7	2110.3	2061.5	2033.1
27.5°	2061.5	1825.5	1697.7	1694.6	1731.0	1897.8	2116.5	2227.1	2165.9	2144.9
30°	2127.6	1849.0	1703.2	1709.4	1753.9	1949.1	2192.5	2360.5	2299.4	2266.6
32.5°	2222.8	1912.0	1787.8	1814.4	1847.2	2031.3	2303.7	2505.1	2458.8	2410.6
35°	2348.2	2085.0	2038.0	2151.1	2120.2	2211.0	2437.7	2680.5	2624.3	2582.3
37.5°	2515.6	2439.6	2482.8	2638.5	2563.8	2550.8	2601.5	2839.9	2809.0	2767.0
40°	2750.3	2765.8	2845.5	3050.0	2941.9	2858.5	2802.2	2959.8	2970.3	2918.4
42.5°	2906.0	2977.1	3169.2	3401.5	3252.6	3053.1	2970.3	3113.0	3113.6	3066.6
45°	2964.1	3150.0	3551.6	3819.1	3570.1	3164.3	3062.9	3321.2	3315.0	3261.2
47.5°	2943.1	3295.8	3948.8	4357.8	3977.9	3243.3	3050.0	3617.7	3667.7	3586.2
50°	2899.2	3442.3	4412.8	5017.6	4478.3	3327.3	3030.2	3946.4	4029.1	3966.1
52.5°	2943.7	3605.3	4961.4	5699.6	5105.9	3461.4	3163.6	4368.3	4353.5	4277.5
55°	3084.6	3798.1	5628.0	6556.5	5795.4	3688.1	3506.5	4770.5	4619.7	4528.9
57.5°	3077.8	3935.9	6212.4	7234.2	6395.2	3874.1	3625.7	4813.1	4508.5	4393.6
60°	2793.6	3872.8	6434.8	7662.9	6576.2	3771.5	3233.4	4299.1	3804.3	3683.8
62.5°	2085.0	3436.7	6003.6	7126.1	6064.1	3257.5	2431.6	3085.8	2733.7	2530.4
65°	1333.8	2688.6	5047.2	5773.1	4998.4	2491.5	1448.1	1654.4	1296.1	1238.0
67.5°	567.7	1897.8	3923.5	3858.6	3739.4	1614.3	559.1	465.8	347.2	341.0
70°	187.8	1291.2	2418.6	2573.7	2233.3	1112.0	184.7	156.3	155.7	150.1
72.5°	122.9	693.1	1361.6	1516.0	1437.0	640.0	111.8	104.4	106.9	104.4
75°	73.5	150.7	229.2	297.8	229.2	107.5	67.3	66.1	67.3	64.2
77.5°	43.2	42.0	40.8	40.8	40.2	37.1	34.0	32.7	33.4	34.0
80°	27.8	26.6	25.3	24.7	21.6	20.4	19.2	17.9	17.9	18.5
82.5°	17.9	16.7	15.4	13.6	11.1	9.3	8.6	7.4	7.4	8.0
85°	9.3	7.4	5.6	4.3	2.5	1.2	0.0	0.0	0.0	0.0
87.5°	1.9	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)