

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: P631334

Luminaire Tested: GWS-SA1F-740-U-SLR-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631334
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6591.6 lumens
Efficiency: N/A
Efficacy: 98.1 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

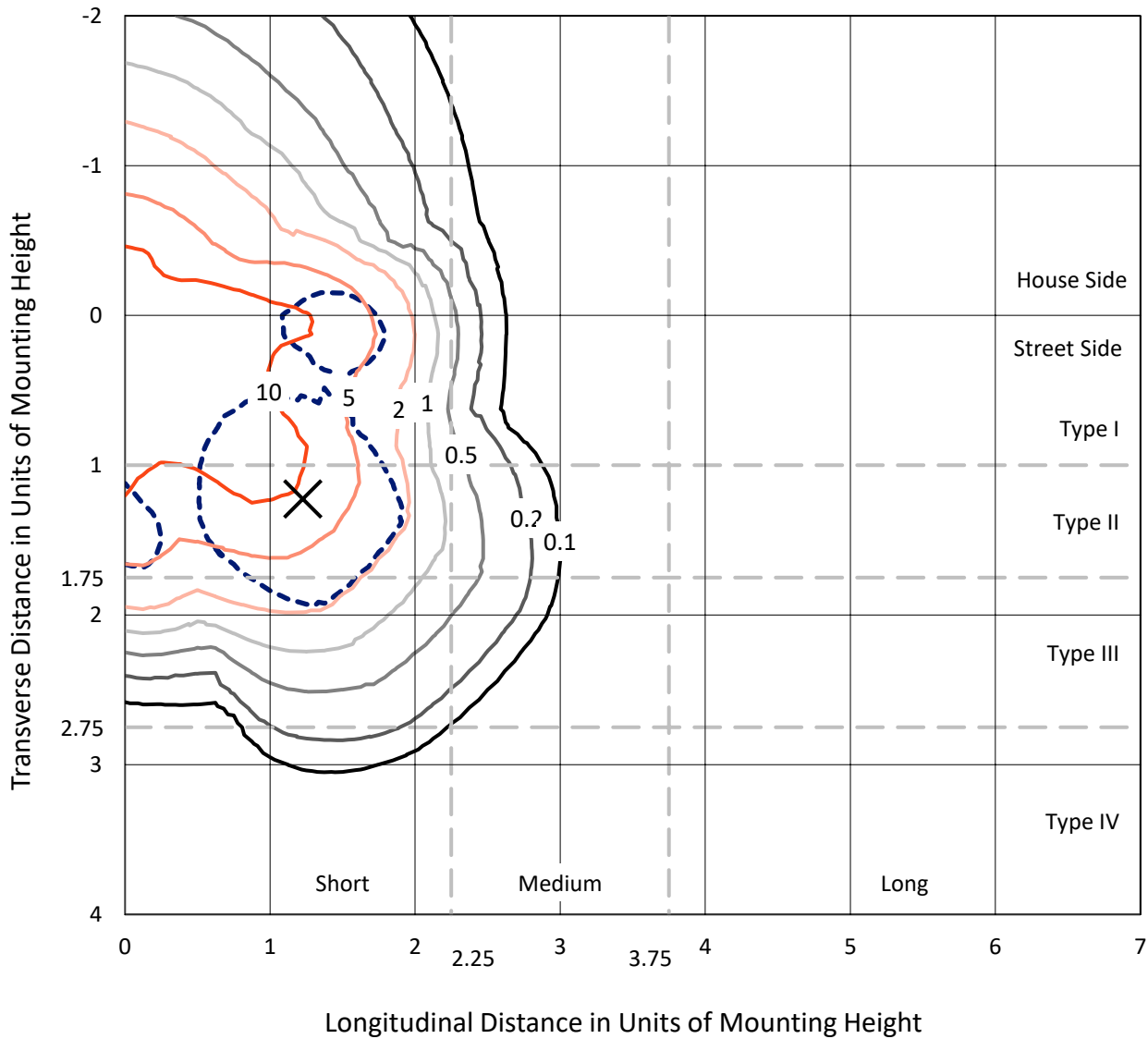
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

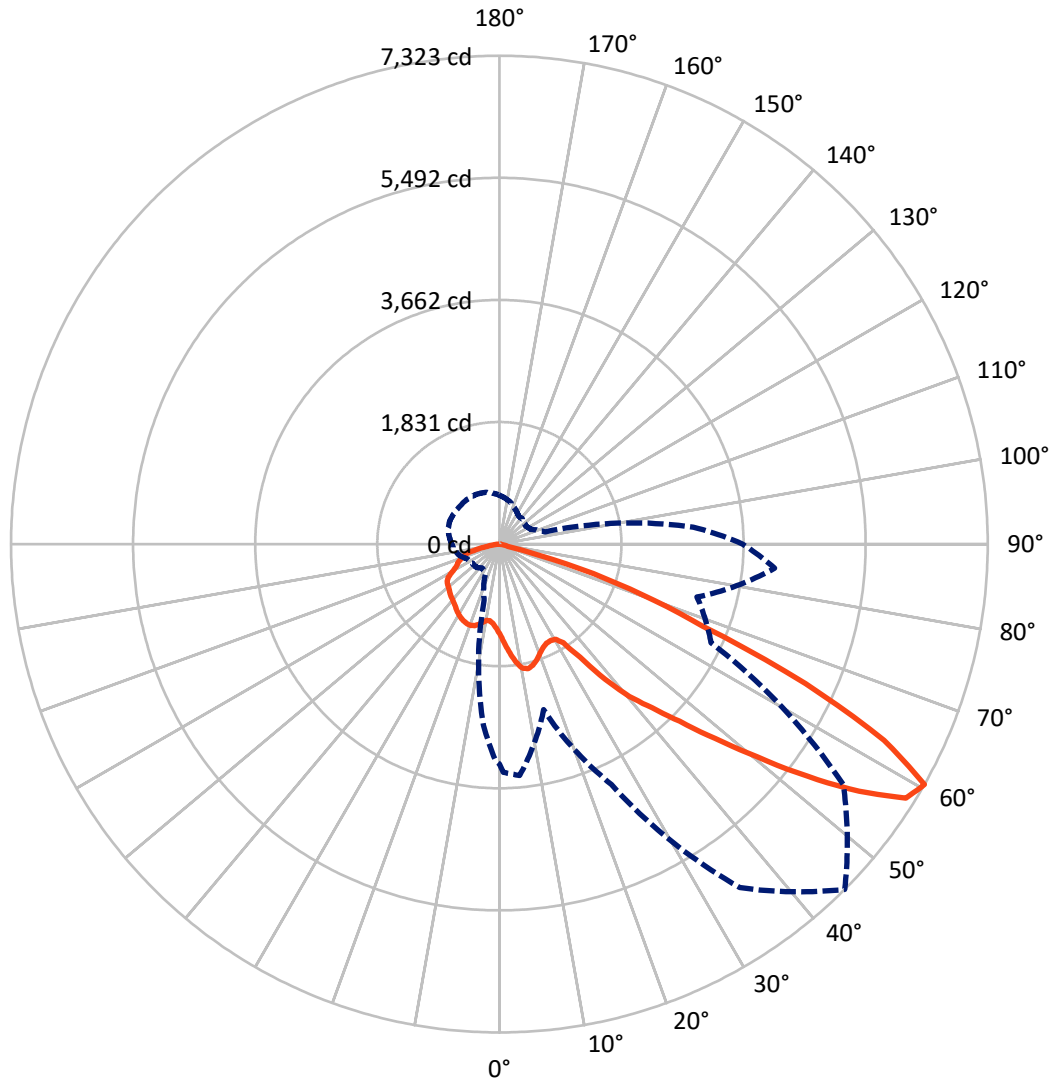
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2310.6	0.0	2310.6
	% Fixture	35.1	0.0	35.1
Street Side	Lumens	4281.0	0.0	4281.0
	% Fixture	64.9	0.0	64.9
Total	Lumens	6591.6	0.0	6591.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.1	2.0
10°-20°	417.5	6.3
20°-30°	678.2	10.3
30°-40°	956.4	14.5
40°-50°	1321.7	20.1
50°-60°	1701.4	25.8
60°-70°	1078.1	16.4
70°-80°	276.6	4.2
80°-90°	29.6	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°	6591.6	100.0
0°-180°	6591.6	100.0

Coefficient of Utilization



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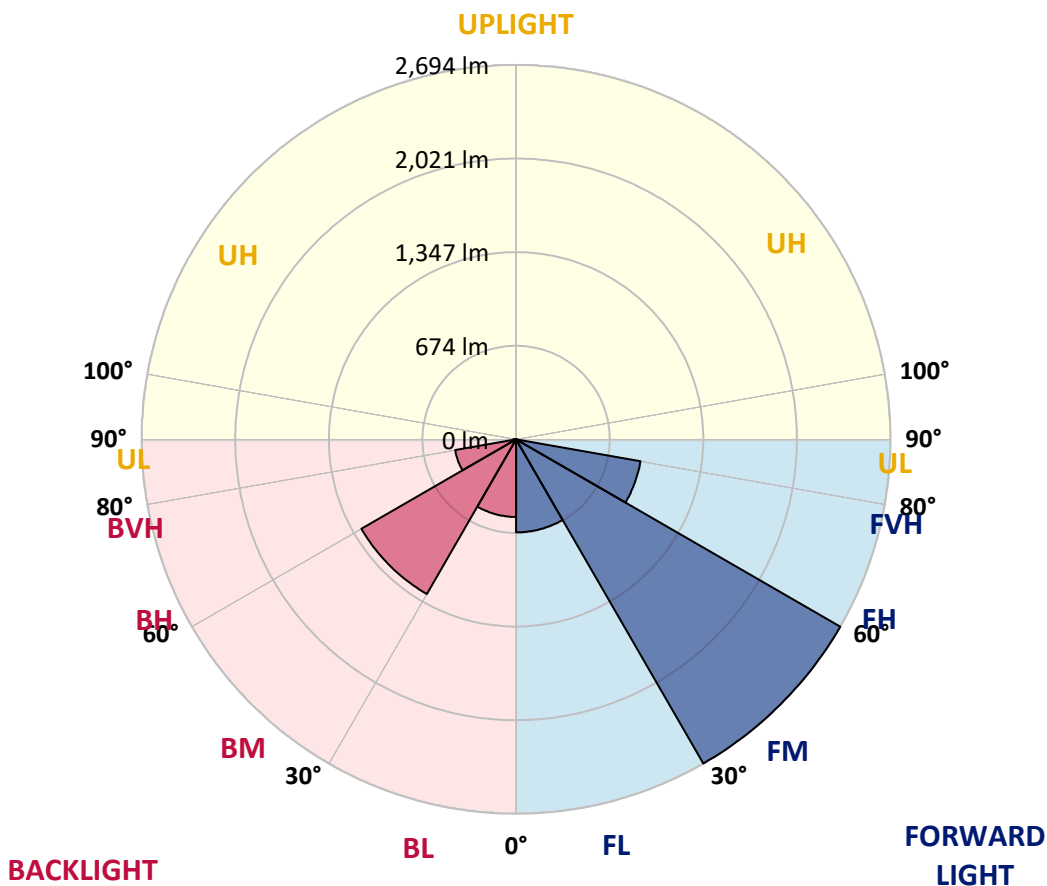
CATALOG NUMBER: GWS-SA1F-740-U-SLR-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	669.3	10.2			
FM (30°-60°)	2694.3	40.9			
FH (60°-80°)	909.4	13.8			G1/1800
FVH (80°-90°)	8.0	0.1			G0/10
BL (0°-30°)	558.5	8.5	B2/1000		
BM (30°-60°)	1285.3	19.5	B2/2500		
BH (60°-80°)	445.3	6.8	B1/500		G1/500
BVH (80°-90°)	21.5	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°	1354.1	1354.1	1354.1	1354.1	1354.1	1354.1	1354.1	1354.1	1354.1	1354.1	1354.1
2.5°	1416.3	1426.0	1432.0	1443.5	1464.0	1475.5	1488.2	1474.3	1477.9	1476.1	1453.8
5°	1500.3	1511.7	1527.4	1561.3	1599.3	1620.5	1640.4	1637.4	1618.6	1587.2	1564.9
7.5°	1578.8	1592.1	1619.3	1674.2	1730.4	1763.0	1787.2	1771.5	1755.7	1706.2	1650.1
10°	1640.4	1648.2	1685.1	1758.8	1824.0	1860.8	1890.4	1886.8	1865.1	1809.5	1734.0
12.5°	1698.4	1703.8	1743.7	1817.4	1875.9	1892.2	1916.4	1924.3	1917.0	1875.3	1801.0
15°	1760.6	1770.8	1807.7	1863.9	1890.4	1873.5	1882.0	1903.7	1924.3	1924.3	1856.0
17.5°	1818.6	1827.6	1865.1	1889.2	1863.9	1819.2	1821.6	1849.4	1898.3	1949.6	1906.1
20°	1869.9	1878.4	1915.2	1892.2	1811.9	1746.7	1744.9	1778.7	1857.8	1965.9	1959.9
22.5°	1926.1	1938.1	1969.0	1894.7	1763.6	1680.9	1680.3	1715.3	1822.2	1982.2	2021.5
25°	2005.8	2024.5	2040.2	1915.8	1737.6	1638.0	1645.8	1679.0	1810.7	2008.8	2112.7
27.5°	2124.2	2139.3	2138.1	1959.9	1736.4	1620.5	1636.8	1675.4	1831.2	2055.9	2208.7
30°	2252.2	2260.1	2247.4	2021.5	1764.2	1631.3	1655.5	1701.4	1883.2	2133.8	2350.1
32.5°	2394.1	2403.8	2379.7	2113.9	1828.8	1711.7	1764.8	1787.2	1956.3	2246.2	2499.8
35°	2557.2	2575.9	2525.8	2235.9	2019.1	2004.6	2081.9	2052.9	2111.5	2379.1	2659.9
37.5°	2728.8	2729.4	2657.5	2416.5	2392.3	2417.1	2571.7	2481.1	2440.7	2527.0	2823.0
40°	2874.3	2870.7	2760.2	2659.9	2717.3	2815.7	3002.4	2863.4	2757.1	2725.7	2958.3
42.5°	3019.9	3006.6	2894.8	2814.5	2941.3	3143.7	3354.5	3184.1	2960.1	2906.3	3091.7
45°	3205.9	3201.7	3067.0	2876.1	3143.7	3510.9	3790.5	3514.5	3080.3	3011.4	3314.0
47.5°	3506.1	3485.5	3234.9	2871.3	3333.3	4000.1	4353.4	3930.7	3164.2	3013.8	3672.8
50°	3799.6	3774.2	3435.4	2870.7	3529.0	4507.5	5017.8	4436.2	3250.0	3028.3	4037.6
52.5°	4096.1	4096.1	3764.6	2938.9	3734.4	5074.0	5785.5	5066.1	3396.1	3218.0	4486.3
55°	4272.5	4319.6	4134.8	3054.3	3974.7	5740.8	6544.7	5746.2	3622.0	3560.4	4900.6
57.5°	4048.4	4136.6	4110.0	2974.0	4116.7	6230.6	7188.5	6262.0	3733.8	3600.9	4838.4
60°	3298.9	3421.5	3482.5	2568.1	3976.6	6287.4	7323.2	6295.8	3503.0	3066.4	4144.5
62.5°	2193.0	2293.9	2386.9	1834.9	3442.6	5656.2	6477.0	5658.0	2925.6	2288.5	2871.3
65°	1075.7	1150.6	1250.8	1084.7	2689.5	4726.1	5049.8	4572.1	2116.3	1281.0	1464.6
67.5°	281.5	302.6	316.5	421.0	1926.7	3395.5	3293.5	3344.2	1359.5	418.6	382.9
70°	146.2	147.4	146.8	173.9	1302.2	2158.0	2269.7	2100.0	948.8	175.2	151.0
72.5°	104.5	105.1	103.3	117.2	628.7	1236.3	1281.0	1267.1	497.1	103.9	103.3
75°	68.2	68.9	67.6	68.9	94.8	140.7	129.9	136.5	82.7	65.8	65.8
77.5°	40.5	41.1	40.5	41.7	40.5	40.5	37.4	37.4	35.6	35.6	36.2
80°	27.2	27.2	26.6	27.8	25.4	25.4	24.2	23.6	21.7	21.1	21.1
82.5°	16.3	16.9	16.3	16.3	15.1	15.1	13.9	13.3	11.5	11.5	10.9
85°	8.5	8.5	7.9	7.9	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1354.1	1354.1	1354.1	1354.1	1354.1	1354.1	1354.1	1354.1	1354.1	1354.1	1354.1
2.5°	1447.7	1435.6	1417.5	1400.0	1383.7	1366.8	1347.5	1327.5	1310.6	1293.1	1284.0
5°	1535.3	1510.5	1463.4	1421.8	1384.3	1353.5	1320.3	1291.9	1265.3	1243.6	1232.7
7.5°	1614.4	1575.8	1504.5	1438.7	1387.9	1345.7	1299.8	1257.5	1221.8	1195.3	1185.0
10°	1687.5	1641.6	1548.0	1464.6	1405.4	1358.3	1302.2	1244.8	1197.7	1162.6	1154.2
12.5°	1746.7	1694.1	1582.4	1485.8	1415.7	1365.0	1315.5	1265.9	1219.4	1174.1	1166.9
15°	1799.2	1737.0	1608.4	1499.1	1412.1	1347.5	1305.8	1299.8	1299.8	1248.4	1233.9
17.5°	1844.5	1776.3	1629.5	1505.1	1389.1	1295.5	1270.2	1322.7	1381.9	1345.0	1312.4
20°	1896.5	1813.7	1647.0	1505.1	1346.9	1229.7	1227.3	1316.7	1404.2	1404.8	1370.4
22.5°	1949.0	1857.2	1667.6	1499.7	1288.9	1153.6	1198.3	1292.5	1370.4	1403.6	1380.1
25°	2034.2	1917.6	1700.2	1495.4	1221.2	1101.6	1172.3	1260.5	1326.3	1361.4	1346.3
27.5°	2142.3	1997.3	1749.7	1502.1	1154.2	1070.8	1144.5	1218.8	1278.6	1309.4	1298.5
30°	2263.1	2089.1	1802.9	1513.6	1105.9	1055.1	1111.3	1171.1	1224.3	1255.1	1250.2
32.5°	2417.1	2188.8	1848.8	1497.9	1078.7	1047.3	1076.3	1119.2	1170.5	1189.8	1194.1
35°	2601.3	2298.7	1883.8	1436.2	1053.9	1038.8	1038.2	1064.8	1101.0	1131.8	1134.9
37.5°	2771.0	2427.4	1922.4	1330.6	1009.2	1017.7	993.5	1009.2	1044.9	1075.7	1087.8
40°	2938.9	2557.8	1976.2	1195.9	950.7	970.6	942.2	953.1	981.5	1021.9	1041.2
42.5°	3102.0	2675.6	2033.0	1058.2	892.1	904.8	883.6	894.5	924.1	974.8	996.6
45°	3279.6	2835.1	2077.1	928.3	841.3	835.9	819.0	834.7	879.4	935.0	960.9
47.5°	3615.4	3086.3	2106.1	841.9	814.2	774.9	755.6	789.4	840.1	896.3	927.7
50°	4025.5	3449.9	2097.6	787.0	790.6	712.1	705.4	750.1	804.5	863.1	897.5
52.5°	4350.4	3806.8	2001.6	734.4	744.7	672.2	652.9	718.1	770.1	829.9	865.5
55°	4598.7	3927.0	1706.8	672.2	669.8	643.2	602.8	684.9	735.6	791.2	829.9
57.5°	4396.3	3659.5	1265.3	586.5	572.0	585.9	546.6	628.7	693.4	748.3	782.7
60°	3648.6	2917.8	704.8	519.4	478.3	512.2	506.1	569.5	647.5	705.4	735.0
62.5°	2476.9	1943.0	417.9	410.7	387.8	436.1	468.1	509.8	586.5	633.6	661.4
65°	1234.5	944.0	277.8	307.4	310.4	358.8	419.2	465.1	529.1	577.4	605.2
67.5°	358.2	293.5	211.4	234.9	267.6	306.2	354.5	408.9	471.1	528.5	561.1
70°	154.6	156.4	167.9	195.7	227.7	267.6	315.9	369.0	421.6	465.7	490.4
72.5°	109.3	113.5	126.2	154.6	184.8	222.9	271.2	322.5	360.6	405.3	431.2
75°	70.1	73.1	83.3	105.1	127.4	164.3	210.2	257.3	296.6	328.6	353.3
77.5°	38.7	39.3	47.7	60.4	75.5	99.1	132.9	169.7	198.7	216.8	239.2
80°	22.3	22.3	26.6	34.4	43.5	58.0	76.7	94.8	112.3	123.8	134.7
82.5°	12.1	12.1	13.9	18.7	23.6	32.0	42.9	51.9	62.8	68.9	76.1
85°	3.6	3.6	4.8	6.6	8.5	12.1	16.9	21.7	26.6	30.8	35.0
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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1354.1	1354.1	1354.1	1354.1	1354.1	1354.1	1354.1	1354.1	1354.1	1354.1	1354.1
2.5°	1282.2	1273.8	1268.9	1262.9	1264.7	1259.3	1256.3	1258.1	1247.2	1258.1	1268.9
5°	1228.5	1216.4	1206.7	1198.9	1195.3	1188.0	1183.8	1183.8	1177.1	1188.0	1201.3
7.5°	1181.4	1171.7	1166.9	1162.0	1156.6	1150.0	1142.7	1140.3	1136.1	1147.5	1159.0
10°	1150.0	1151.2	1154.2	1160.8	1159.6	1155.4	1144.5	1138.5	1138.5	1151.8	1169.3
12.5°	1164.5	1177.1	1184.4	1196.5	1198.9	1195.3	1184.4	1179.6	1191.6	1211.6	1240.6
15°	1220.6	1229.1	1235.1	1244.8	1244.2	1241.2	1232.7	1236.3	1276.2	1314.8	1340.8
17.5°	1281.6	1272.0	1270.8	1276.8	1278.6	1275.0	1270.2	1286.5	1352.3	1388.5	1401.8
20°	1325.7	1292.5	1285.3	1287.7	1292.5	1290.7	1290.7	1317.3	1385.5	1402.4	1385.5
22.5°	1339.0	1291.9	1281.0	1281.6	1288.3	1288.9	1291.9	1319.7	1359.5	1360.1	1334.2
25°	1317.9	1272.6	1264.7	1265.9	1273.8	1273.2	1274.4	1290.1	1307.6	1300.4	1281.0
27.5°	1278.0	1238.7	1236.3	1243.0	1253.2	1247.8	1244.2	1248.4	1256.9	1247.8	1230.9
30°	1232.7	1199.5	1200.7	1213.4	1224.3	1215.2	1206.1	1208.6	1209.2	1199.5	1180.2
32.5°	1185.0	1160.2	1164.5	1177.7	1190.4	1180.8	1171.1	1169.9	1158.4	1146.9	1128.2
35°	1137.3	1127.6	1133.1	1143.9	1154.8	1146.9	1140.9	1137.3	1112.5	1095.6	1079.9
37.5°	1093.8	1101.0	1110.7	1117.4	1121.0	1120.4	1116.7	1108.3	1075.7	1055.7	1035.2
40°	1055.1	1077.5	1087.8	1090.8	1096.2	1095.0	1094.4	1082.3	1039.4	1018.3	994.7
42.5°	1020.1	1051.5	1069.0	1072.1	1075.1	1075.7	1073.9	1056.3	1007.4	982.7	960.3
45°	986.3	1027.4	1049.7	1046.7	1050.9	1050.9	1052.7	1029.8	976.0	950.7	927.1
47.5°	956.7	1005.0	1025.5	1021.9	1024.3	1026.2	1028.0	1001.4	941.6	917.4	893.3
50°	929.5	980.9	998.4	999.6	999.6	1003.8	1003.2	977.2	912.6	886.6	862.5
52.5°	900.5	956.1	974.8	982.7	985.1	986.9	978.4	948.2	883.0	851.6	829.3
55°	866.7	930.7	947.6	957.9	962.7	961.5	950.0	919.2	852.8	821.4	796.0
57.5°	815.4	876.4	900.5	905.4	913.2	908.4	895.1	869.1	804.5	773.1	747.1
60°	759.2	803.3	822.6	826.8	820.8	822.6	820.8	796.0	739.9	715.1	688.5
62.5°	685.5	724.8	745.3	750.7	740.5	747.1	744.7	713.9	657.7	631.8	608.2
65°	629.9	672.8	697.0	700.0	697.0	700.0	691.5	654.1	601.0	574.4	550.2
67.5°	586.5	630.5	655.9	664.4	661.4	660.7	647.5	604.0	549.0	520.0	489.2
70°	511.6	550.2	582.8	603.4	603.4	591.9	566.5	526.1	482.0	457.2	433.0
72.5°	453.0	501.9	533.9	555.1	559.3	552.6	517.0	474.1	423.4	398.6	373.3
75°	373.3	421.0	455.4	483.2	488.6	481.4	440.3	398.0	350.9	326.7	301.4
77.5°	249.4	277.8	305.6	331.0	325.5	330.4	302.6	270.6	241.6	223.5	212.0
80°	140.7	159.4	167.9	181.8	181.8	181.8	163.7	148.6	132.3	122.0	110.5
82.5°	79.7	91.8	95.4	106.9	109.9	110.5	98.4	88.8	78.5	73.1	65.2
85°	36.8	43.5	44.1	50.7	53.1	58.0	52.5	45.9	39.9	37.4	32.6
87.5°	1.2	3.6	4.8	9.1	12.1	13.9	15.1	15.1	12.7	11.5	9.7
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: P631334

CATALOG NUMBER: GWS-SA1F-740-U-SLR-W-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1354.1	1354.1	1354.1	1354.1	1354.1	1354.1	1354.1	1354.1	1354.1	1354.1
2.5°	1282.2	1296.7	1313.6	1325.7	1347.5	1365.6	1384.3	1404.8	1419.9	1416.3
5°	1217.6	1241.8	1272.6	1301.0	1341.4	1382.5	1427.8	1474.3	1501.5	1500.3
7.5°	1181.4	1215.8	1253.2	1291.3	1339.0	1398.2	1467.7	1540.1	1577.0	1578.8
10°	1200.7	1237.5	1262.9	1294.9	1345.0	1419.3	1502.7	1589.7	1631.9	1640.4
12.5°	1261.7	1258.7	1256.9	1279.8	1340.2	1434.4	1536.5	1640.4	1688.1	1698.4
15°	1319.7	1257.5	1220.0	1235.7	1318.5	1444.1	1569.7	1696.0	1749.7	1760.6
17.5°	1330.6	1236.3	1166.9	1177.7	1284.0	1447.1	1601.7	1750.3	1808.3	1818.6
20°	1300.4	1209.2	1128.2	1113.1	1240.6	1439.3	1621.7	1795.6	1859.0	1869.9
22.5°	1262.3	1185.0	1099.2	1060.0	1187.4	1431.4	1644.0	1843.3	1916.4	1926.1
25°	1222.4	1154.2	1072.1	1012.3	1127.0	1426.6	1681.5	1906.1	1994.3	2005.8
27.5°	1180.2	1116.7	1048.5	989.3	1071.4	1432.6	1734.6	2007.6	2107.9	2124.2
30°	1134.9	1079.3	1033.4	981.5	1033.4	1438.1	1793.2	2111.5	2229.3	2252.2
32.5°	1087.8	1044.9	1017.7	985.1	1009.8	1425.4	1844.5	2228.1	2374.2	2394.1
35°	1040.6	1009.8	997.8	991.7	978.4	1378.9	1886.2	2345.8	2539.7	2557.2
37.5°	996.6	973.6	970.0	976.6	930.1	1302.8	1934.5	2495.6	2702.2	2728.8
40°	955.5	934.3	933.7	932.5	877.0	1198.9	1999.8	2647.8	2862.2	2874.3
42.5°	917.4	890.9	895.7	881.2	833.5	1086.5	2061.4	2777.7	3011.4	3019.9
45°	883.6	848.6	854.0	835.9	812.9	968.8	2115.7	2931.1	3200.5	3205.9
47.5°	851.0	813.6	798.5	797.2	809.3	860.1	2168.9	3226.4	3496.4	3506.1
50°	820.8	780.3	737.5	764.0	787.0	778.5	2235.3	3542.9	3802.0	3799.6
52.5°	791.8	738.7	677.7	729.0	729.0	718.1	2216.6	3735.0	4054.5	4096.1
55°	758.6	671.6	615.4	670.4	643.8	663.8	1885.0	3797.8	4213.3	4272.5
57.5°	692.8	588.9	540.0	569.5	529.7	615.4	1354.1	3486.1	3943.3	4048.4
60°	629.3	527.9	495.9	490.4	438.5	501.9	877.6	2729.4	3245.8	3298.9
62.5°	555.1	475.3	448.1	406.5	352.7	365.4	531.5	1796.2	2180.9	2193.0
65°	498.9	430.6	378.7	329.2	288.7	265.1	314.1	866.1	1090.2	1075.7
67.5°	428.2	369.0	319.5	283.9	250.6	221.1	209.0	257.3	291.1	281.5
70°	381.1	324.3	276.6	242.8	212.0	182.4	161.3	151.6	148.6	146.2
72.5°	328.6	279.0	229.5	196.9	167.9	140.7	121.4	109.9	106.9	104.5
75°	262.1	215.6	170.3	139.5	114.2	94.8	82.1	72.5	70.7	68.2
77.5°	173.3	138.3	101.5	82.7	67.6	57.4	48.9	42.9	41.7	40.5
80°	95.4	79.7	62.2	50.1	40.5	35.0	32.0	28.4	27.8	27.2
82.5°	56.8	47.7	35.6	28.4	23.6	21.1	19.3	17.5	16.9	16.3
85°	28.4	22.3	15.7	13.3	12.1	10.9	10.9	9.1	8.5	8.5
87.5°	7.2	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)