

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: P631389

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631389
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-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6742.6 lumens
Efficiency: N/A
Efficacy: 100.3 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

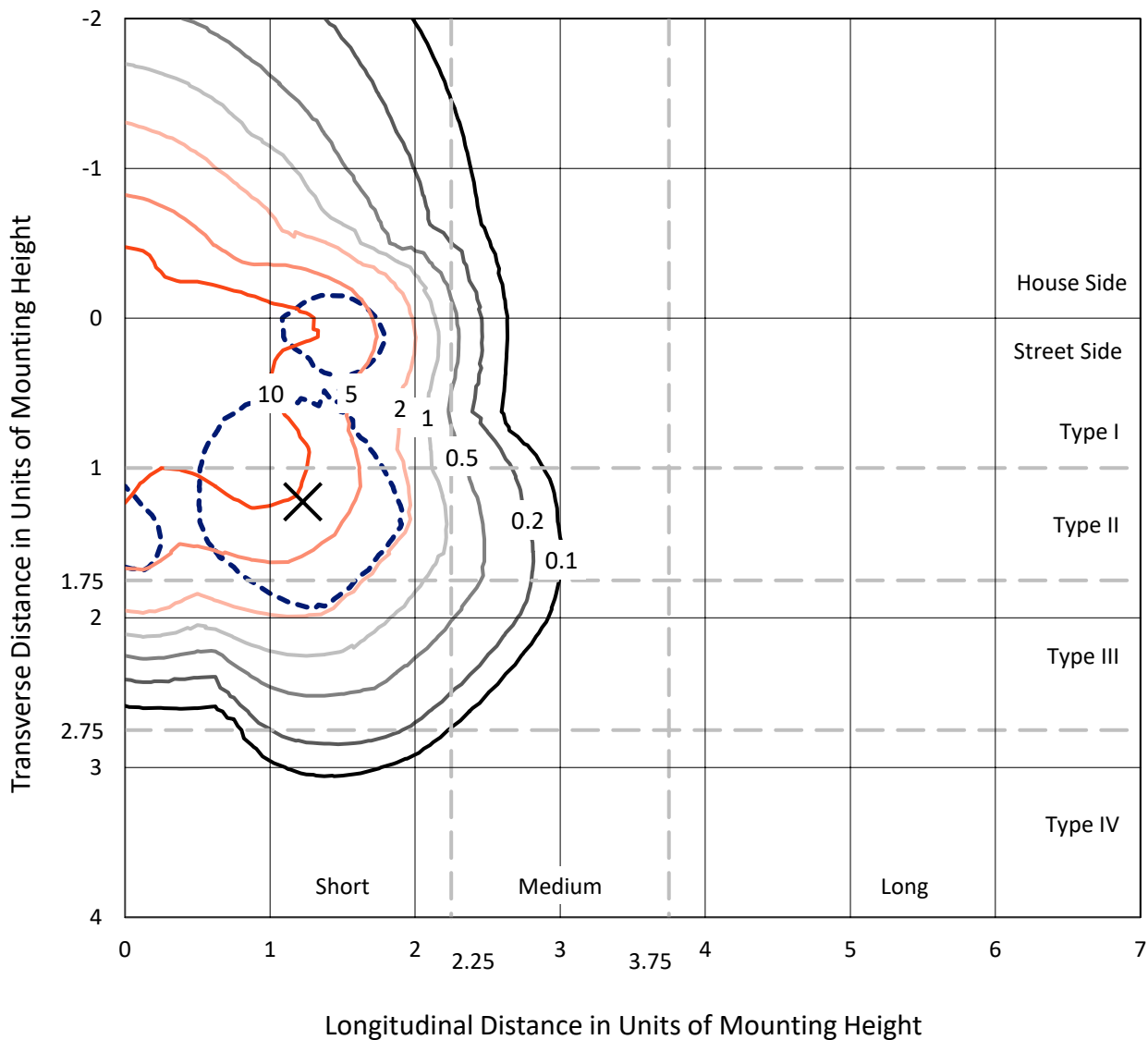
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

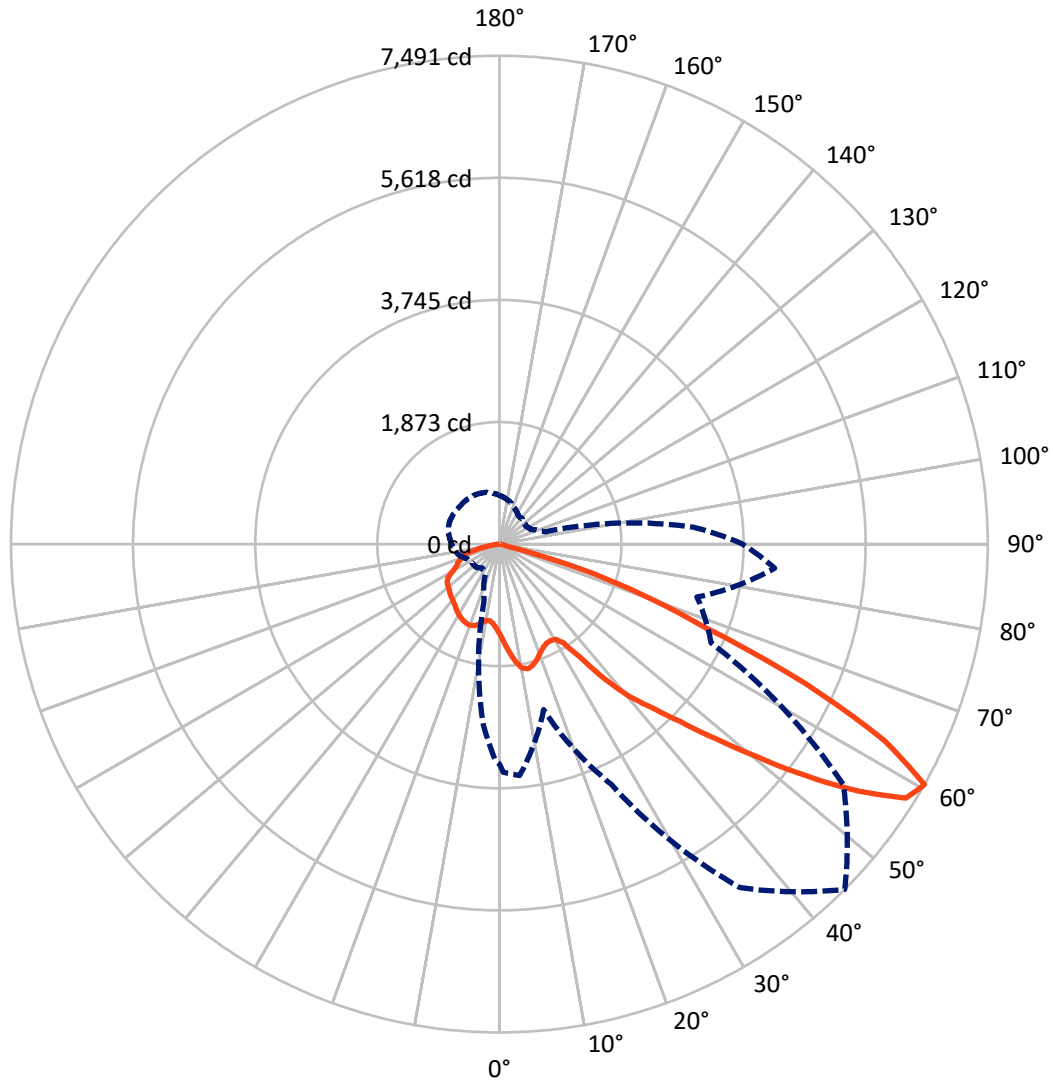
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.5 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	2363.5	0.0	2363.5
	% Fixture	35.1	0.0	35.1
Street Side	Lumens	4379.1	0.0	4379.1
	% Fixture	64.9	0.0	64.9
Total	Lumens	6742.6	0.0	6742.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.1	2.0
10°-20°	427.0	6.3
20°-30°	693.7	10.3
30°-40°	978.3	14.5
40°-50°	1352.0	20.1
50°-60°	1740.4	25.8
60°-70°	1102.8	16.4
70°-80°	283.0	4.2
80°-90°	30.3	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°	6742.6	100.0
0°-180°	6742.6	100.0

Coefficient of Utilization



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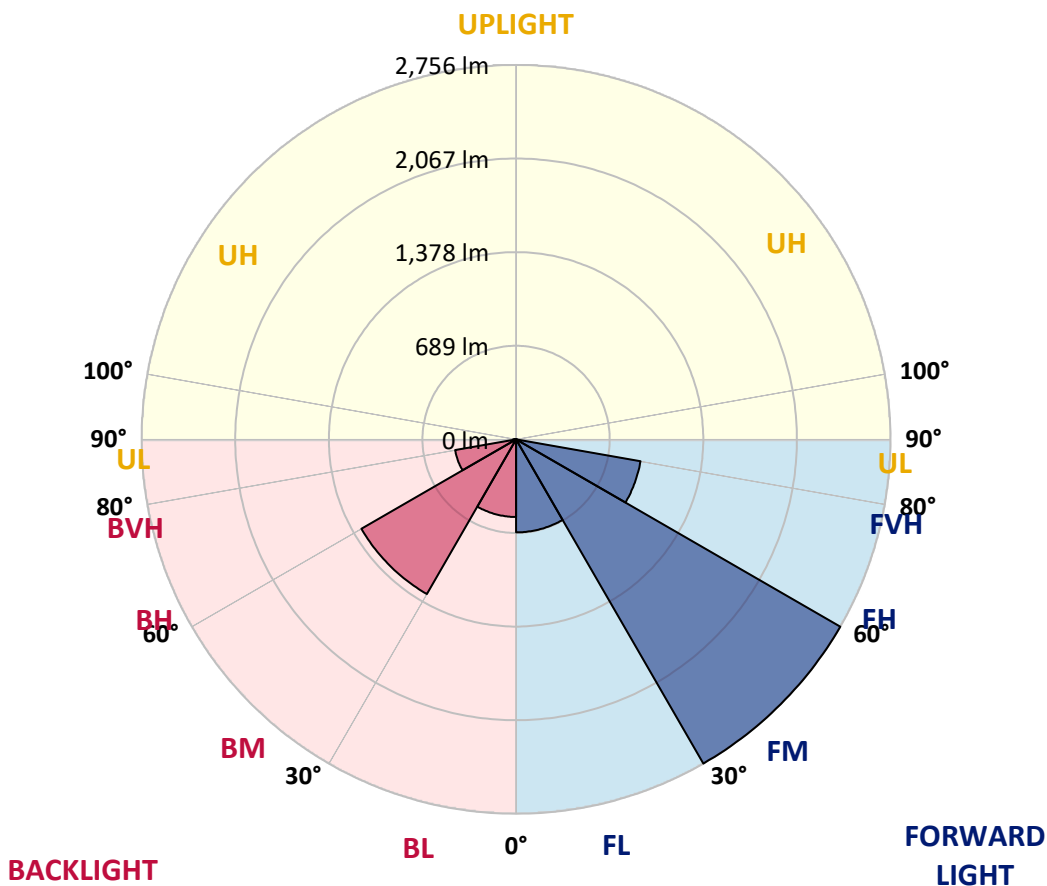
CATALOG NUMBER: GWS-SA1F-750-U-SLR-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	684.6	10.2			
FM (30°-60°)	2756.0	40.9			
FH (60°-80°)	930.2	13.8			G1/1800
FVH (80°-90°)	8.2	0.1			G0/10
BL (0°-30°)	571.3	8.5	B2/1000		
BM (30°-60°)	1314.8	19.5	B2/2500		
BH (60°-80°)	455.5	6.8	B1/500		G1/500
BVH (80°-90°)	22.0	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°	1385.1	1385.1	1385.1	1385.1	1385.1	1385.1	1385.1	1385.1	1385.1	1385.1	1385.1
2.5°	1448.8	1458.6	1464.8	1476.6	1497.6	1509.3	1522.3	1508.1	1511.8	1509.9	1487.1
5°	1534.6	1546.4	1562.4	1597.0	1636.0	1657.6	1678.0	1674.9	1655.7	1623.6	1600.7
7.5°	1615.0	1628.5	1656.3	1712.6	1770.0	1803.4	1828.1	1812.0	1796.0	1745.3	1687.9
10°	1678.0	1686.0	1723.7	1799.1	1865.8	1903.5	1933.7	1930.0	1907.8	1851.0	1773.7
12.5°	1737.3	1742.8	1783.6	1859.0	1918.9	1935.6	1960.3	1968.3	1960.9	1918.3	1842.3
15°	1800.9	1811.4	1849.1	1906.6	1933.7	1916.4	1925.1	1947.3	1968.3	1968.3	1898.5
17.5°	1860.2	1869.5	1907.8	1932.5	1906.6	1860.8	1863.3	1891.7	1941.8	1994.3	1949.8
20°	1912.7	1921.4	1959.1	1935.6	1853.4	1786.7	1784.9	1819.4	1900.4	2011.0	2004.8
22.5°	1970.2	1982.5	2014.1	1938.1	1804.0	1719.4	1718.7	1754.6	1863.9	2027.6	2067.8
25°	2051.7	2070.9	2087.0	1959.7	1777.4	1675.5	1683.5	1717.5	1852.2	2054.8	2161.1
27.5°	2172.8	2188.3	2187.0	2004.8	1776.2	1657.6	1674.3	1713.8	1873.2	2103.0	2259.3
30°	2303.8	2311.8	2298.9	2067.8	1804.6	1668.7	1693.4	1740.4	1926.3	2182.7	2403.9
32.5°	2449.0	2458.9	2434.2	2162.3	1870.7	1750.9	1805.2	1828.1	2001.1	2297.6	2557.1
35°	2615.8	2635.0	2583.7	2287.1	2065.3	2050.5	2129.6	2099.9	2159.9	2433.5	2720.8
37.5°	2791.3	2791.9	2718.4	2471.9	2447.1	2472.5	2630.6	2538.0	2496.6	2584.9	2887.6
40°	2940.2	2936.4	2823.4	2720.8	2779.5	2880.2	3071.1	2929.0	2820.3	2788.2	3026.0
42.5°	3089.0	3075.5	2961.2	2879.0	3008.7	3215.7	3431.3	3257.1	3027.9	2972.9	3162.6
45°	3279.3	3275.0	3137.2	2942.0	3215.7	3591.3	3877.4	3595.0	3150.8	3080.4	3389.9
47.5°	3586.4	3565.4	3309.0	2937.1	3409.7	4091.7	4453.2	4020.7	3236.7	3082.9	3756.9
50°	3886.6	3860.7	3514.1	2936.4	3609.9	4610.7	5132.8	4537.8	3324.4	3097.7	4130.1
52.5°	4190.0	4190.0	3850.8	3006.3	3819.9	5190.2	5918.0	5182.2	3473.9	3291.7	4589.1
55°	4370.4	4418.6	4229.5	3124.3	4065.8	5872.3	6694.6	5877.8	3705.0	3642.0	5012.9
57.5°	4141.2	4231.4	4204.2	3042.1	4211.0	6373.3	7353.2	6405.4	3819.3	3683.4	4949.3
60°	3374.5	3499.9	3562.3	2626.9	4067.7	6431.4	7490.9	6440.0	3583.3	3136.6	4239.4
62.5°	2243.3	2346.4	2441.6	1876.9	3521.5	5785.8	6625.4	5787.6	2992.7	2340.9	2937.1
65°	1100.3	1176.9	1279.5	1109.6	2751.1	4834.4	5165.5	4676.8	2164.8	1310.4	1498.2
67.5°	287.9	309.5	323.7	430.6	1970.8	3473.3	3368.9	3420.8	1390.7	428.1	391.7
70°	149.5	150.7	150.1	177.9	1332.0	2207.4	2321.7	2148.1	970.6	179.2	154.5
72.5°	106.9	107.5	105.6	119.9	643.1	1264.7	1310.4	1296.2	508.5	106.3	105.6
75°	69.8	70.4	69.2	70.4	97.0	143.9	132.8	139.6	84.6	67.3	67.3
77.5°	41.4	42.0	41.4	42.6	41.4	41.4	38.3	38.3	36.5	36.5	37.1
80°	27.8	27.8	27.2	28.4	25.9	25.9	24.7	24.1	22.2	21.6	21.6
82.5°	16.7	17.3	16.7	16.7	15.4	15.4	14.2	13.6	11.7	11.7	11.1
85°	8.6	8.6	8.0	8.0	6.8	6.2	4.9	4.9	3.7	3.1	3.1
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°	1385.1	1385.1	1385.1	1385.1	1385.1	1385.1	1385.1	1385.1	1385.1	1385.1	1385.1
2.5°	1480.9	1468.5	1450.0	1432.1	1415.4	1398.1	1378.3	1357.9	1340.6	1322.7	1313.5
5°	1570.5	1545.1	1497.0	1454.3	1416.0	1384.5	1350.5	1321.5	1294.3	1272.1	1260.9
7.5°	1651.4	1611.9	1539.0	1471.6	1419.7	1376.5	1329.5	1286.3	1249.8	1222.6	1212.1
10°	1726.2	1679.2	1583.4	1498.2	1437.6	1389.5	1332.0	1273.3	1225.1	1189.3	1180.6
12.5°	1786.7	1733.0	1618.7	1519.8	1448.1	1396.2	1345.6	1294.9	1247.4	1201.0	1193.6
15°	1840.5	1776.8	1645.2	1533.4	1444.4	1378.3	1335.7	1329.5	1329.5	1277.0	1262.2
17.5°	1886.8	1817.0	1666.8	1539.6	1421.0	1325.2	1299.3	1353.0	1413.5	1375.9	1342.5
20°	1939.9	1855.3	1684.8	1539.6	1377.7	1257.9	1255.4	1346.8	1436.4	1437.0	1401.8
22.5°	1993.7	1899.8	1705.8	1534.0	1318.4	1180.0	1225.7	1322.1	1401.8	1435.8	1411.7
25°	2080.8	1961.5	1739.1	1529.7	1249.2	1126.9	1199.2	1289.4	1356.7	1392.5	1377.1
27.5°	2191.4	2043.1	1789.8	1536.5	1180.6	1095.4	1170.7	1246.7	1307.9	1339.4	1328.3
30°	2314.9	2137.0	1844.2	1548.2	1131.2	1079.3	1136.8	1197.9	1252.3	1283.8	1278.9
32.5°	2472.5	2238.9	1891.1	1532.2	1103.4	1071.3	1100.9	1144.8	1197.3	1217.1	1221.4
35°	2660.9	2351.4	1926.9	1469.1	1078.1	1062.6	1062.0	1089.2	1126.3	1157.8	1160.9
37.5°	2834.5	2483.0	1966.5	1361.0	1032.4	1041.0	1016.3	1032.4	1068.8	1100.3	1112.7
40°	3006.3	2616.4	2021.5	1223.3	972.4	992.8	963.8	974.9	1003.9	1045.3	1065.1
42.5°	3173.1	2736.9	2079.5	1082.4	912.5	925.5	903.9	915.0	945.2	997.1	1019.4
45°	3354.7	2900.0	2124.6	949.6	860.6	855.0	837.7	853.8	899.5	956.4	982.9
47.5°	3698.2	3157.0	2154.3	861.2	832.8	792.6	772.9	807.5	859.4	916.8	949.0
50°	4117.7	3528.9	2145.7	805.0	808.7	728.4	721.6	767.3	822.9	882.8	918.1
52.5°	4450.1	3894.0	2047.4	751.3	761.8	687.6	667.9	734.6	787.7	848.9	885.3
55°	4704.0	4017.0	1745.9	687.6	685.2	658.0	616.6	700.6	752.5	809.3	848.9
57.5°	4497.0	3743.3	1294.3	599.9	585.1	599.3	559.1	643.1	709.2	765.5	800.7
60°	3732.2	2984.6	721.0	531.3	489.3	523.9	517.7	582.6	662.3	721.6	751.9
62.5°	2533.6	1987.5	427.5	420.1	396.6	446.1	478.8	521.4	599.9	648.1	676.5
65°	1262.8	965.6	284.2	314.5	317.6	367.0	428.8	475.7	541.2	590.6	619.0
67.5°	366.4	300.3	216.2	240.3	273.7	313.2	362.7	418.3	481.9	540.6	573.9
70°	158.2	160.0	171.8	200.2	232.9	273.7	323.1	377.5	431.2	476.3	501.7
72.5°	111.8	116.1	129.1	158.2	189.0	228.0	277.4	329.9	368.8	414.5	441.1
75°	71.7	74.8	85.3	107.5	130.4	168.0	215.0	263.2	303.3	336.1	361.4
77.5°	39.5	40.2	48.8	61.8	77.2	101.3	135.9	173.6	203.3	221.8	244.7
80°	22.9	22.9	27.2	35.2	44.5	59.3	78.5	97.0	114.9	126.7	137.8
82.5°	12.4	12.4	14.2	19.2	24.1	32.7	43.9	53.1	64.3	70.4	77.8
85°	3.7	3.7	4.9	6.8	8.6	12.4	17.3	22.2	27.2	31.5	35.8
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°	1385.1	1385.1	1385.1	1385.1	1385.1	1385.1	1385.1	1385.1	1385.1	1385.1	1385.1
2.5°	1311.6	1303.0	1298.0	1291.8	1293.7	1288.1	1285.0	1286.9	1275.8	1286.9	1298.0
5°	1256.6	1244.3	1234.4	1226.4	1222.6	1215.2	1210.9	1210.9	1204.1	1215.2	1228.8
7.5°	1208.4	1198.5	1193.6	1188.7	1183.1	1176.3	1168.9	1166.4	1162.1	1173.8	1185.6
10°	1176.3	1177.5	1180.6	1187.4	1186.2	1181.9	1170.7	1164.6	1164.6	1178.2	1196.1
12.5°	1191.1	1204.1	1211.5	1223.9	1226.4	1222.6	1211.5	1206.6	1218.9	1239.3	1269.0
15°	1248.6	1257.2	1263.4	1273.3	1272.7	1269.6	1260.9	1264.7	1305.4	1345.0	1371.5
17.5°	1311.0	1301.1	1299.9	1306.0	1307.9	1304.2	1299.3	1315.9	1383.3	1420.3	1433.9
20°	1356.1	1322.1	1314.7	1317.2	1322.1	1320.3	1320.3	1347.4	1417.3	1434.6	1417.3
22.5°	1369.7	1321.5	1310.4	1311.0	1317.8	1318.4	1321.5	1349.9	1390.7	1391.3	1364.7
25°	1348.1	1301.7	1293.7	1294.9	1303.0	1302.3	1303.6	1319.6	1337.6	1330.1	1310.4
27.5°	1307.3	1267.1	1264.7	1271.5	1282.0	1276.4	1272.7	1277.0	1285.7	1276.4	1259.1
30°	1260.9	1227.0	1228.2	1241.2	1252.3	1243.0	1233.8	1236.2	1236.9	1227.0	1207.2
32.5°	1212.1	1186.8	1191.1	1204.7	1217.7	1207.8	1197.9	1196.7	1185.0	1173.2	1154.1
35°	1163.3	1153.4	1159.0	1170.1	1181.3	1173.2	1167.0	1163.3	1138.0	1120.7	1104.6
37.5°	1118.9	1126.3	1136.2	1142.9	1146.7	1146.0	1142.3	1133.7	1100.3	1079.9	1058.9
40°	1079.3	1102.2	1112.7	1115.8	1121.3	1120.1	1119.5	1107.1	1063.2	1041.6	1017.5
42.5°	1043.5	1075.6	1093.5	1096.6	1099.7	1100.3	1098.5	1080.5	1030.5	1005.2	982.3
45°	1008.9	1050.9	1073.8	1070.7	1075.0	1075.0	1076.8	1053.4	998.4	972.4	948.3
47.5°	978.6	1028.0	1049.0	1045.3	1047.8	1049.7	1051.5	1024.3	963.2	938.5	913.7
50°	950.8	1003.3	1021.2	1022.5	1022.5	1026.8	1026.2	999.6	933.5	906.9	882.2
52.5°	921.2	978.0	997.1	1005.2	1007.6	1009.5	1000.9	970.0	903.2	871.1	848.3
55°	886.6	952.0	969.3	979.8	984.8	983.6	971.8	940.3	872.3	840.2	814.3
57.5°	834.0	896.4	921.2	926.1	934.1	929.2	915.6	889.0	822.9	790.8	764.2
60°	776.6	821.7	841.5	845.8	839.6	841.5	839.6	814.3	756.8	731.5	704.3
62.5°	701.2	741.4	762.4	767.9	757.4	764.2	761.8	730.3	672.8	646.2	622.1
65°	644.4	688.2	713.0	716.0	713.0	716.0	707.4	669.1	614.7	587.5	562.8
67.5°	599.9	645.0	670.9	679.6	676.5	675.9	662.3	617.8	561.6	531.9	500.4
70°	523.3	562.8	596.2	617.2	617.2	605.5	579.5	538.1	493.0	467.7	443.0
72.5°	463.4	513.4	546.1	567.8	572.1	565.3	528.8	485.0	433.1	407.8	381.8
75°	381.8	430.6	465.8	494.2	499.8	492.4	450.4	407.1	358.9	334.2	308.3
77.5°	255.2	284.2	312.6	338.6	333.0	337.9	309.5	276.8	247.1	228.6	216.9
80°	143.9	163.1	171.8	186.0	186.0	186.0	167.4	152.0	135.3	124.8	113.1
82.5°	81.6	93.9	97.6	109.4	112.4	113.1	100.7	90.8	80.3	74.8	66.7
85°	37.7	44.5	45.1	51.9	54.4	59.3	53.7	47.0	40.8	38.3	33.4
87.5°	1.2	3.7	4.9	9.3	12.4	14.2	15.4	15.4	13.0	11.7	9.9
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: P631389

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

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1385.1	1385.1	1385.1	1385.1	1385.1	1385.1	1385.1	1385.1	1385.1	1385.1
2.5°	1311.6	1326.4	1343.7	1356.1	1378.3	1396.9	1416.0	1437.0	1452.5	1448.8
5°	1245.5	1270.2	1301.7	1330.8	1372.2	1414.2	1460.5	1508.1	1535.9	1534.6
7.5°	1208.4	1243.6	1282.0	1320.9	1369.7	1430.2	1501.3	1575.4	1613.1	1615.0
10°	1228.2	1265.9	1291.8	1324.6	1375.9	1451.9	1537.1	1626.1	1669.3	1678.0
12.5°	1290.6	1287.5	1285.7	1309.1	1370.9	1467.3	1571.7	1678.0	1726.8	1737.3
15°	1349.9	1286.3	1248.0	1264.0	1348.7	1477.2	1605.7	1734.8	1789.8	1800.9
17.5°	1361.0	1264.7	1193.6	1204.7	1313.5	1480.3	1638.4	1790.4	1849.7	1860.2
20°	1330.1	1236.9	1154.1	1138.6	1269.0	1472.2	1658.8	1836.7	1901.6	1912.7
22.5°	1291.2	1212.1	1124.4	1084.3	1214.6	1464.2	1681.7	1885.6	1960.3	1970.2
25°	1250.4	1180.6	1096.6	1035.4	1152.8	1459.3	1720.0	1949.8	2040.0	2051.7
27.5°	1207.2	1142.3	1072.5	1012.0	1096.0	1465.4	1774.3	2053.6	2156.2	2172.8
30°	1160.9	1104.0	1057.1	1003.9	1057.1	1471.0	1834.3	2159.9	2280.3	2303.8
32.5°	1112.7	1068.8	1041.0	1007.6	1033.0	1458.0	1886.8	2279.1	2428.6	2449.0
35°	1064.5	1033.0	1020.6	1014.4	1000.9	1410.5	1929.4	2399.6	2597.9	2615.8
37.5°	1019.4	995.9	992.2	999.0	951.4	1332.6	1978.8	2552.8	2764.1	2791.3
40°	977.4	955.8	955.1	953.9	897.1	1226.4	2045.6	2708.5	2927.8	2940.2
42.5°	938.5	911.3	916.2	901.4	852.6	1111.4	2108.6	2841.3	3080.4	3089.0
45°	903.9	868.0	873.6	855.0	831.6	991.0	2164.2	2998.2	3273.8	3279.3
47.5°	870.5	832.2	816.7	815.5	827.9	879.8	2218.6	3300.3	3576.5	3586.4
50°	839.6	798.2	754.3	781.5	805.0	796.4	2286.5	3624.1	3889.1	3886.6
52.5°	809.9	755.6	693.2	745.7	745.7	734.6	2267.4	3820.5	4147.4	4190.0
55°	776.0	687.0	629.5	685.8	658.6	679.0	1928.2	3884.8	4309.8	4370.4
57.5°	708.6	602.4	552.3	582.6	541.8	629.5	1385.1	3566.0	4033.7	4141.2
60°	643.8	540.0	507.2	501.7	448.5	513.4	897.7	2791.9	3320.1	3374.5
62.5°	567.8	486.2	458.4	415.8	360.8	373.8	543.7	1837.4	2230.9	2243.3
65°	510.3	440.5	387.4	336.7	295.3	271.2	321.3	885.9	1115.1	1100.3
67.5°	438.0	377.5	326.8	290.4	256.4	226.1	213.8	263.2	297.8	287.9
70°	389.8	331.8	283.0	248.4	216.9	186.6	165.0	155.1	152.0	149.5
72.5°	336.1	285.4	234.8	201.4	171.8	143.9	124.2	112.4	109.4	106.9
75°	268.1	220.6	174.2	142.7	116.8	97.0	84.0	74.1	72.3	69.8
77.5°	177.3	141.5	103.8	84.6	69.2	58.7	50.0	43.9	42.6	41.4
80°	97.6	81.6	63.6	51.3	41.4	35.8	32.7	29.0	28.4	27.8
82.5°	58.1	48.8	36.5	29.0	24.1	21.6	19.8	17.9	17.3	16.7
85°	29.0	22.9	16.1	13.6	12.4	11.1	11.1	9.3	8.6	8.6
87.5°	7.4	6.2	3.7	3.1	3.1	3.1	2.5	1.9	1.9	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)