

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: P641290

Luminaire Tested: GWS-SA5F-750-U-SLR-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641290
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-44)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-750-U-SLR-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26496.2 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

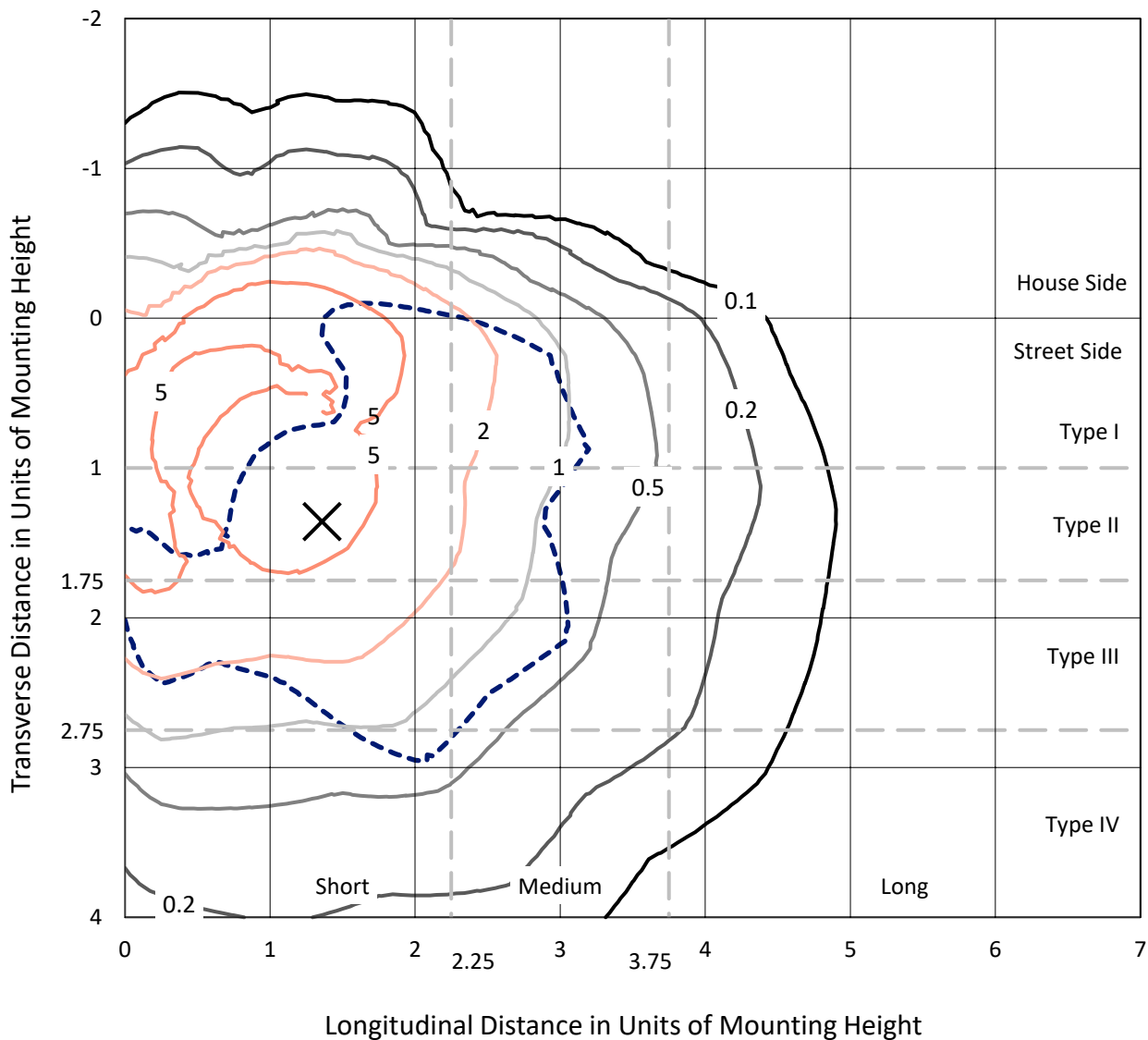
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P641290
 CATALOG NUMBER: GWS-SA5F-750-U-SLR-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

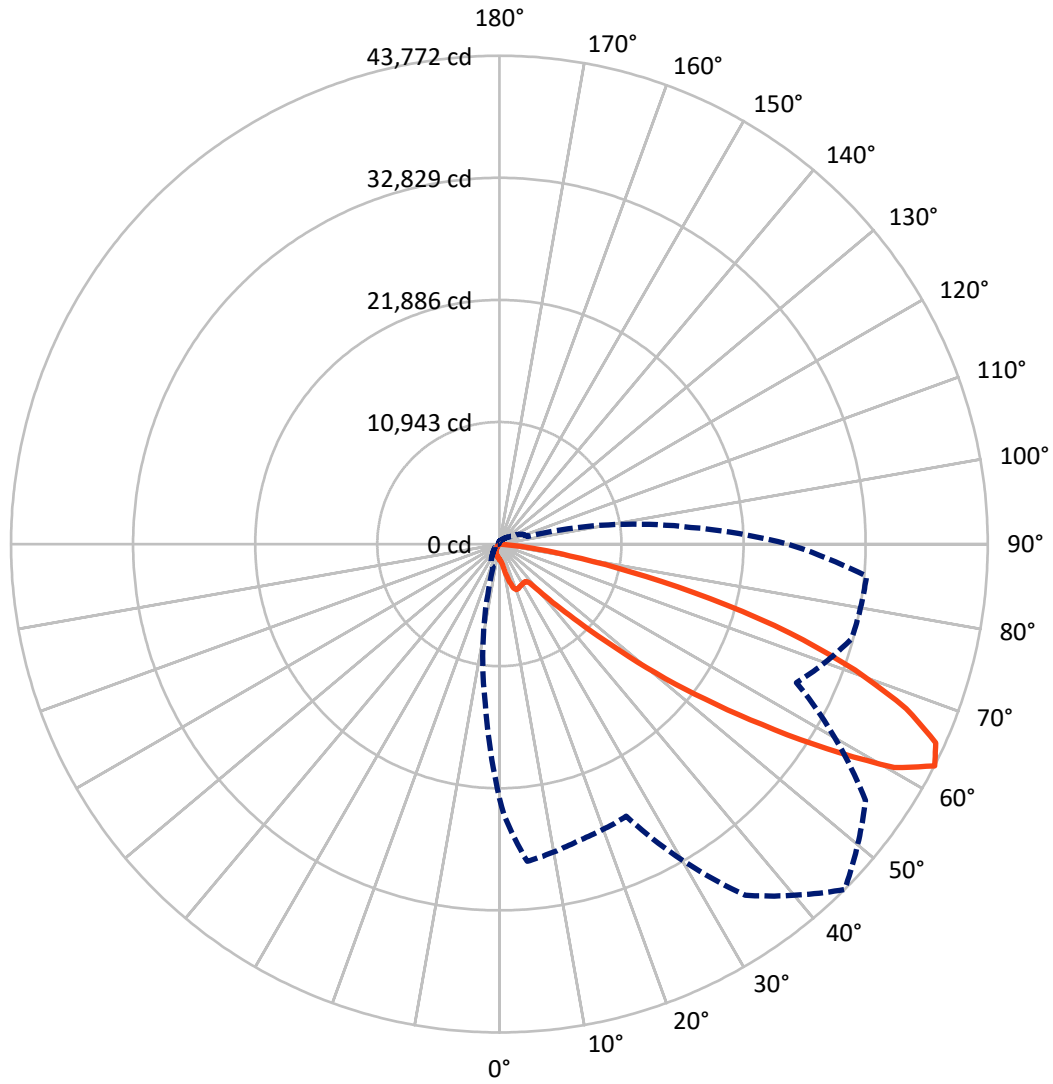
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P641290
CATALOG NUMBER: GWS-SA5F-750-U-SLR-W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P641290
 CATALOG NUMBER: GWS-SA5F-750-U-SLR-W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3269.6	0.0	3269.6
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	23226.6	0.0	23226.6
	% Fixture	87.7	0.0	87.7
Total	Lumens	26496.2	0.0	26496.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.2	0.5
10°-20°	461.9	1.7
20°-30°	1004.2	3.8
30°-40°	1648.2	6.2
40°-50°	3030.0	11.4
50°-60°	6507.1	24.6
60°-70°	8740.0	33.0
70°-80°	4551.0	17.2
80°-90°	431.5	1.6
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°	26496.2	100.0
0°-180°	26496.2	100.0

Coefficient of Utilization



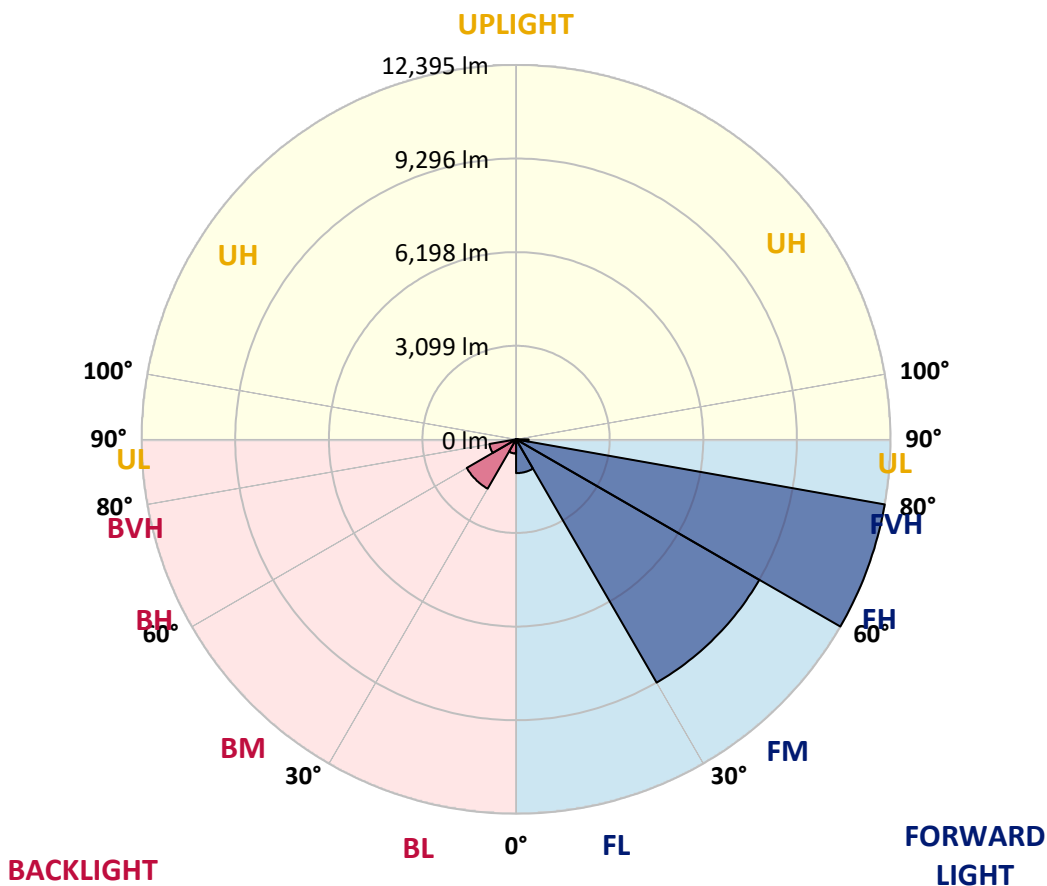
REPORT NUMBER: P641290

CATALOG NUMBER: GWS-SA5F-750-U-SLR-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1119.3	4.2			
FM (30°-60°)	9299.9	35.1			
FH (60°-80°)	12395.1	46.8			G5
FVH (80°-90°)	412.3	1.6			G3/500
BL (0°-30°)	469.0	1.8	B1/500		
BM (30°-60°)	1885.5	7.1	B2/2500		
BH (60°-80°)	895.9	3.4	B2/1000		G2/1000
BVH (80°-90°)	19.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
 Type IV Short





REPORT NUMBER: P641290

CATALOG NUMBER: GWS-SA5F-750-U-SLR-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1377.2	1377.2	1377.2	1377.2	1377.2	1377.2	1377.2	1377.2	1377.2	1377.2	1377.2
2.5°	1404.8	1410.9	1417.0	1438.5	1453.8	1466.0	1469.1	1459.9	1438.5	1417.0	1386.4
5°	1361.9	1368.1	1389.5	1447.6	1505.8	1551.7	1567.0	1557.8	1505.8	1438.5	1368.1
7.5°	1358.9	1371.1	1423.2	1545.6	1671.1	1765.9	1790.4	1769.0	1671.1	1536.4	1392.6
10°	1469.1	1490.5	1567.0	1787.4	2016.9	2185.2	2252.6	2160.7	2004.7	1759.8	1524.2
12.5°	1756.8	1793.5	1940.4	2261.7	2616.8	2840.2	2932.0	2818.8	2573.9	2218.9	1845.5
15°	2209.7	2264.8	2485.2	2965.7	3385.0	3583.9	3614.5	3550.2	3265.6	2873.9	2371.9
17.5°	2849.4	2928.9	3271.7	3761.4	4064.4	4134.8	4125.6	4058.3	3850.2	3580.8	3106.5
20°	3614.5	3709.4	4046.0	4450.0	4480.6	4398.0	4352.1	4312.3	4241.9	4196.0	3825.7
22.5°	4385.8	4502.1	4854.0	4955.0	4679.6	4440.9	4327.6	4358.2	4462.3	4688.8	4538.8
25°	5154.0	5264.1	5594.7	5322.3	4771.4	4373.5	4229.7	4303.1	4551.0	5040.7	5233.5
27.5°	6050.7	6133.3	6329.2	5573.3	4786.7	4318.4	4177.7	4290.9	4593.9	5261.1	5995.6
30°	6984.2	7033.1	6938.3	5640.6	4734.7	4235.8	4125.6	4290.9	4667.3	5408.0	6567.9
32.5°	7669.7	7678.9	7369.8	5646.7	4707.1	4168.5	4076.7	4272.5	4737.7	5530.4	7121.9
35°	8376.7	8330.8	7783.0	5738.5	4780.6	4193.0	4113.4	4324.6	4847.9	5674.3	7608.5
37.5°	9092.9	9010.3	8245.1	5888.5	4970.3	4459.2	4410.3	4590.8	5025.4	5873.2	8144.1
40°	9827.4	9714.2	8725.6	6115.0	5392.7	5365.1	5533.5	5512.1	5512.1	6127.2	8695.0
42.5°	10724.2	10592.6	9435.7	6754.6	6378.2	6993.4	7452.4	7167.8	6641.4	6711.8	9411.2
45°	11908.6	11795.4	10666.0	7978.9	7923.8	9337.7	9956.0	9392.8	8082.9	8061.5	10607.9
47.5°	13803.1	13781.7	12627.8	9399.0	9815.2	12321.8	13515.4	12432.0	9726.4	9490.8	12872.7
50°	16465.8	16401.5	15073.2	11063.9	12064.7	16018.9	18149.1	16343.3	11712.7	11158.8	15905.7
52.5°	19465.1	19532.4	18498.0	12881.9	14455.0	20132.3	23098.0	20824.0	13870.4	13279.7	19722.2
55°	22290.0	22675.6	22403.2	15008.9	16790.2	24674.2	28533.5	25739.2	16542.3	16055.6	24000.8
57.5°	24499.7	25586.2	27496.0	18100.1	19535.5	29987.3	34602.6	31067.6	19661.0	20563.8	29825.1
60°	24622.1	26060.6	30495.3	24567.0	23067.4	34544.4	40662.5	36273.6	24564.0	28218.3	34388.3
62.5°	22776.6	24319.1	28542.7	27505.2	26914.5	38422.2	43772.0	40068.7	29387.4	32702.0	33035.6
65°	20664.8	22222.7	26363.6	24172.2	26467.6	38256.9	42982.4	40157.5	29825.1	29653.7	30614.7
67.5°	17472.7	18871.4	22620.5	21396.3	24395.6	36411.4	39334.2	37626.4	27477.6	27734.7	28163.2
70°	12753.3	14100.0	17579.8	17641.0	21304.5	33084.6	33797.7	33562.0	25304.6	25577.0	24352.8
72.5°	9212.3	10347.7	13350.1	14467.2	17007.5	27743.9	27251.1	28160.1	21711.5	22779.7	19560.0
75°	6623.0	7473.9	9793.8	12585.0	13481.7	20603.6	19507.9	21809.5	17420.7	19615.1	14705.9
77.5°	2687.2	2987.1	3853.2	8477.7	8860.3	13861.2	11942.3	15841.4	12419.7	12888.0	7128.0
80°	110.2	122.4	159.1	4376.6	6075.2	7798.3	6390.4	8468.5	8202.3	5190.7	1683.3
82.5°	12.2	12.2	27.5	1260.9	2659.6	4303.1	3011.6	4878.5	4153.2	2200.5	765.1
85°	3.1	3.1	6.1	143.8	624.4	688.6	407.1	1496.6	1931.2	899.8	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.3	27.5	30.6	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: P641290
 CATALOG NUMBER: GWS-SA5F-750-U-SLR-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1377.2	1377.2	1377.2	1377.2	1377.2	1377.2	1377.2	1377.2	1377.2	1377.2	1377.2
2.5°	1386.4	1371.1	1352.8	1334.4	1325.2	1300.7	1291.6	1285.4	1279.3	1282.4	1282.4
5°	1340.5	1306.9	1267.1	1227.3	1205.9	1181.4	1169.1	1163.0	1166.1	1178.3	1178.3
7.5°	1334.4	1270.1	1184.4	1132.4	1107.9	1089.6	1077.3	1071.2	1074.3	1089.6	1095.7
10°	1435.4	1322.2	1169.1	1080.4	1052.8	1034.5	1022.2	1013.0	1006.9	1019.2	1022.2
12.5°	1652.7	1496.6	1242.6	1074.3	1025.3	1000.8	991.6	973.3	964.1	970.2	973.3
15°	2102.6	1833.3	1389.5	1098.7	1000.8	973.3	958.0	942.6	927.3	924.3	927.3
17.5°	2690.2	2304.6	1612.9	1156.9	982.4	948.8	927.3	905.9	884.5	881.4	878.4
20°	3418.6	2883.0	1925.1	1248.7	967.1	927.3	896.7	866.1	838.6	829.4	829.4
22.5°	4082.8	3580.8	2326.0	1361.9	945.7	896.7	860.0	823.3	792.7	777.4	774.3
25°	4893.8	4321.5	2806.5	1493.5	915.1	857.0	817.2	780.4	749.8	731.5	725.4
27.5°	5711.0	5101.9	3351.3	1664.9	878.4	817.2	780.4	746.8	713.1	691.7	685.6
30°	6503.7	5943.6	3963.4	1879.2	850.8	777.4	746.8	713.1	682.5	648.8	639.7
32.5°	7354.5	6803.6	4649.0	2117.9	829.4	749.8	716.2	685.6	645.8	615.2	599.9
35°	8174.7	7691.2	5404.9	2350.5	808.0	725.4	688.6	658.0	615.2	581.5	560.1
37.5°	9001.1	8594.0	6194.6	2491.3	777.4	691.7	658.0	633.5	584.6	544.8	520.3
40°	9876.4	9527.5	7048.4	2433.1	749.8	655.0	636.6	609.0	554.0	508.1	477.4
42.5°	10837.4	10418.1	7917.6	2209.7	725.4	624.4	606.0	578.4	526.4	471.3	431.5
45°	12046.3	11394.4	8630.8	1873.1	737.6	593.7	557.0	550.9	501.9	431.5	382.6
47.5°	14124.4	12894.1	9184.7	1655.8	820.2	560.1	517.2	532.5	480.5	391.8	336.7
50°	17304.4	15379.3	9701.9	1640.5	945.7	544.8	480.5	520.3	459.1	352.0	296.9
52.5°	20334.3	17904.2	10032.5	1775.1	1055.9	584.6	443.8	505.0	443.8	324.4	269.3
55°	23232.6	19361.0	9441.8	1873.1	1159.9	703.9	416.2	480.5	425.4	309.1	260.1
57.5°	26357.5	20009.9	7434.1	2072.0	1233.4	804.9	422.4	443.8	400.9	299.9	257.1
60°	27290.9	19180.5	4486.8	2332.1	1193.6	835.5	468.3	394.8	367.3	281.6	247.9
62.5°	25840.2	17212.5	2647.4	2124.0	1159.9	789.6	535.6	364.2	333.6	257.1	229.5
65°	23670.3	14540.7	1726.2	1793.5	1230.3	703.9	569.3	348.9	303.0	232.6	202.0
67.5°	21191.3	11712.7	1208.9	1059.0	1135.5	633.5	480.5	345.8	272.4	195.9	165.3
70°	17849.1	8771.5	850.8	700.9	945.7	563.1	373.4	336.7	238.7	159.1	128.5
72.5°	13790.8	5490.6	633.5	453.0	673.3	459.1	296.9	284.6	192.8	131.6	97.9
75°	10170.2	3130.9	446.8	327.5	443.8	348.9	220.4	202.0	165.3	125.5	88.8
77.5°	5310.1	1567.0	278.5	251.0	254.0	217.3	159.1	146.9	153.0	125.5	82.6
80°	1019.2	312.2	168.3	183.6	137.7	137.7	116.3	122.4	134.7	101.0	70.4
82.5°	425.4	67.3	91.8	104.1	85.7	94.9	94.9	97.9	94.9	73.5	52.0
85°	0.0	0.0	39.8	42.8	58.2	58.2	49.0	49.0	49.0	42.8	30.6
87.5°	0.0	0.0	0.0	0.0	3.1	9.2	18.4	21.4	24.5	18.4	12.2
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: P641290
 CATALOG NUMBER: GWS-SA5F-750-U-SLR-W-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1377.2	1377.2	1377.2	1377.2	1377.2	1377.2	1377.2	1377.2	1377.2	1377.2	1377.2
2.5°	1279.3	1273.2	1282.4	1288.5	1294.6	1294.6	1288.5	1282.4	1273.2	1282.4	1273.2
5°	1181.4	1190.6	1205.9	1212.0	1218.1	1205.9	1199.7	1181.4	1166.1	1169.1	1163.0
7.5°	1104.9	1114.0	1132.4	1144.6	1144.6	1138.5	1120.2	1101.8	1077.3	1077.3	1074.3
10°	1034.5	1046.7	1068.1	1083.4	1089.6	1083.4	1065.1	1040.6	1019.2	1019.2	1010.0
12.5°	976.3	991.6	1016.1	1037.5	1043.6	1037.5	1019.2	994.7	970.2	970.2	964.1
15°	927.3	945.7	973.3	997.7	1006.9	997.7	976.3	945.7	921.2	924.3	915.1
17.5°	881.4	896.7	933.5	961.0	970.2	961.0	933.5	893.7	869.2	875.3	869.2
20°	829.4	847.8	884.5	915.1	924.3	915.1	884.5	841.7	817.2	817.2	820.2
22.5°	774.3	792.7	829.4	850.8	863.1	853.9	823.3	783.5	759.0	759.0	762.1
25°	725.4	734.5	762.1	783.5	786.6	777.4	752.9	722.3	703.9	713.1	716.2
27.5°	679.4	679.4	691.7	703.9	700.9	691.7	682.5	658.0	655.0	664.1	673.3
30°	630.5	615.2	609.0	599.9	596.8	593.7	602.9	602.9	609.0	621.3	630.5
32.5°	587.6	557.0	529.5	501.9	486.6	498.9	523.4	544.8	566.2	584.6	593.7
35°	538.7	489.7	443.8	407.1	382.6	400.9	440.7	480.5	517.2	541.7	557.0
37.5°	489.7	419.3	364.2	318.3	299.9	315.2	358.1	413.2	468.3	498.9	520.3
40°	437.7	348.9	284.6	247.9	229.5	244.8	287.7	342.8	416.2	456.0	483.6
42.5°	385.6	287.7	229.5	192.8	183.6	192.8	226.5	281.6	361.1	410.1	446.8
45°	333.6	238.7	183.6	156.1	146.9	156.1	183.6	229.5	309.1	364.2	407.1
47.5°	287.7	202.0	153.0	128.5	122.4	131.6	153.0	192.8	260.1	315.2	364.2
50°	251.0	177.5	131.6	110.2	104.1	113.2	131.6	162.2	220.4	269.3	321.4
52.5°	226.5	165.3	116.3	94.9	91.8	97.9	113.2	137.7	186.7	229.5	278.5
55°	220.4	165.3	107.1	85.7	82.6	88.8	101.0	119.4	162.2	198.9	241.8
57.5°	226.5	177.5	101.0	73.5	70.4	76.5	88.8	104.1	140.8	171.4	211.2
60°	226.5	180.6	88.8	58.2	55.1	61.2	73.5	91.8	125.5	150.0	183.6
62.5°	205.1	165.3	73.5	45.9	39.8	45.9	61.2	76.5	110.2	134.7	162.2
65°	177.5	140.8	61.2	33.7	27.5	33.7	49.0	64.3	94.9	116.3	146.9
67.5°	143.8	107.1	45.9	24.5	18.4	24.5	36.7	52.0	79.6	101.0	131.6
70°	107.1	76.5	36.7	21.4	18.4	21.4	33.7	49.0	70.4	91.8	122.4
72.5°	79.6	52.0	30.6	21.4	15.3	21.4	30.6	45.9	67.3	88.8	116.3
75°	67.3	42.8	27.5	18.4	15.3	18.4	27.5	42.8	61.2	82.6	110.2
77.5°	64.3	39.8	24.5	15.3	12.2	15.3	24.5	36.7	55.1	76.5	107.1
80°	55.1	33.7	21.4	12.2	9.2	12.2	21.4	30.6	42.8	58.2	82.6
82.5°	42.8	27.5	15.3	6.1	3.1	6.1	15.3	18.4	27.5	33.7	49.0
85°	27.5	15.3	6.1	0.0	0.0	0.0	6.1	12.2	12.2	15.3	24.5
87.5°	12.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0	3.1	6.1	9.2
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: P641290

CATALOG NUMBER: GWS-SA5F-750-U-SLR-W-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1377.2	1377.2	1377.2	1377.2	1377.2	1377.2	1377.2	1377.2	1377.2	1377.2
2.5°	1291.6	1294.6	1300.7	1309.9	1331.3	1349.7	1368.1	1392.6	1404.8	1404.8
5°	1169.1	1172.2	1175.3	1187.5	1218.1	1242.6	1282.4	1331.3	1355.8	1361.9
7.5°	1074.3	1080.4	1086.5	1095.7	1126.3	1159.9	1212.0	1303.8	1349.7	1358.9
10°	1019.2	1028.3	1040.6	1059.0	1086.5	1123.2	1212.0	1377.2	1453.8	1469.1
12.5°	976.3	991.6	1003.9	1025.3	1059.0	1117.1	1294.6	1585.4	1720.0	1756.8
15°	933.5	951.8	970.2	991.6	1028.3	1138.5	1453.8	1958.8	2182.2	2209.7
17.5°	890.6	912.0	936.5	961.0	1006.9	1190.6	1704.7	2476.0	2788.2	2849.4
20°	841.7	869.2	902.9	933.5	985.5	1273.2	2053.6	3091.2	3482.9	3614.5
22.5°	789.6	823.3	863.1	902.9	961.0	1374.2	2476.0	3752.2	4300.1	4385.8
25°	746.8	780.4	817.2	857.0	921.2	1496.6	2987.1	4572.5	5071.3	5154.0
27.5°	707.0	740.7	774.3	811.0	881.4	1655.8	3602.3	5444.7	5965.0	6050.7
30°	664.1	703.9	737.6	774.3	844.7	1851.6	4312.3	6411.9	6904.6	6984.2
32.5°	627.4	667.2	700.9	737.6	817.2	2065.9	5059.1	7268.8	7669.7	7669.7
35°	596.8	639.7	664.1	713.1	795.7	2203.6	5766.1	8086.0	8389.0	8376.7
37.5°	563.1	615.2	633.5	667.2	768.2	2218.9	6430.2	8949.1	9172.5	9092.9
40°	529.5	584.6	612.1	630.5	737.6	2093.4	7158.6	9741.7	9931.5	9827.4
42.5°	498.9	541.7	581.5	602.9	719.2	1873.1	7743.2	10589.5	10816.0	10724.2
45°	468.3	505.0	529.5	569.3	731.5	1720.0	8245.1	11578.1	11975.9	11908.6
47.5°	437.7	468.3	483.6	544.8	814.1	1649.6	8551.2	13108.3	13858.2	13803.1
50°	404.0	440.7	440.7	538.7	936.5	1674.1	8817.4	15324.2	16484.1	16465.8
52.5°	370.3	410.1	404.0	584.6	1031.4	1787.4	9120.4	17279.9	19296.8	19465.1
55°	336.7	373.4	379.5	676.4	1086.5	1885.3	7948.3	18103.2	21699.3	22290.0
57.5°	299.9	321.4	394.8	746.8	1068.1	2169.9	5444.7	18253.1	23232.6	24499.7
60°	260.1	278.5	446.8	731.5	1010.0	2004.7	3427.8	16906.5	23015.3	24622.1
62.5°	226.5	257.1	471.3	645.8	1028.3	1738.4	2185.2	14409.1	20943.3	22776.6
65°	198.9	247.9	428.5	584.6	1040.6	1178.3	1475.2	11721.9	18920.3	20664.8
67.5°	177.5	275.4	352.0	520.3	893.7	829.4	1013.0	9108.2	15908.7	17472.7
70°	162.2	281.6	287.7	446.8	691.7	532.5	667.2	6130.3	10966.0	12753.3
72.5°	146.9	208.1	217.3	358.1	446.8	324.4	431.5	3507.4	7994.2	9212.3
75°	140.8	140.8	150.0	232.6	247.9	235.7	278.5	2093.4	5732.4	6623.0
77.5°	131.6	107.1	94.9	150.0	134.7	168.3	165.3	930.4	2485.2	2687.2
80°	104.1	76.5	64.3	94.9	91.8	113.2	97.9	76.5	113.2	110.2
82.5°	64.3	49.0	45.9	58.2	52.0	58.2	45.9	12.2	12.2	12.2
85°	30.6	27.5	24.5	24.5	27.5	24.5	18.4	6.1	3.1	3.1
87.5°	15.3	15.3	12.2	9.2	12.2	12.2	9.2	3.1	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)