

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: P641180

Luminaire Tested: GWS-SA5F-735-U-SLR-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641180
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25547.6 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

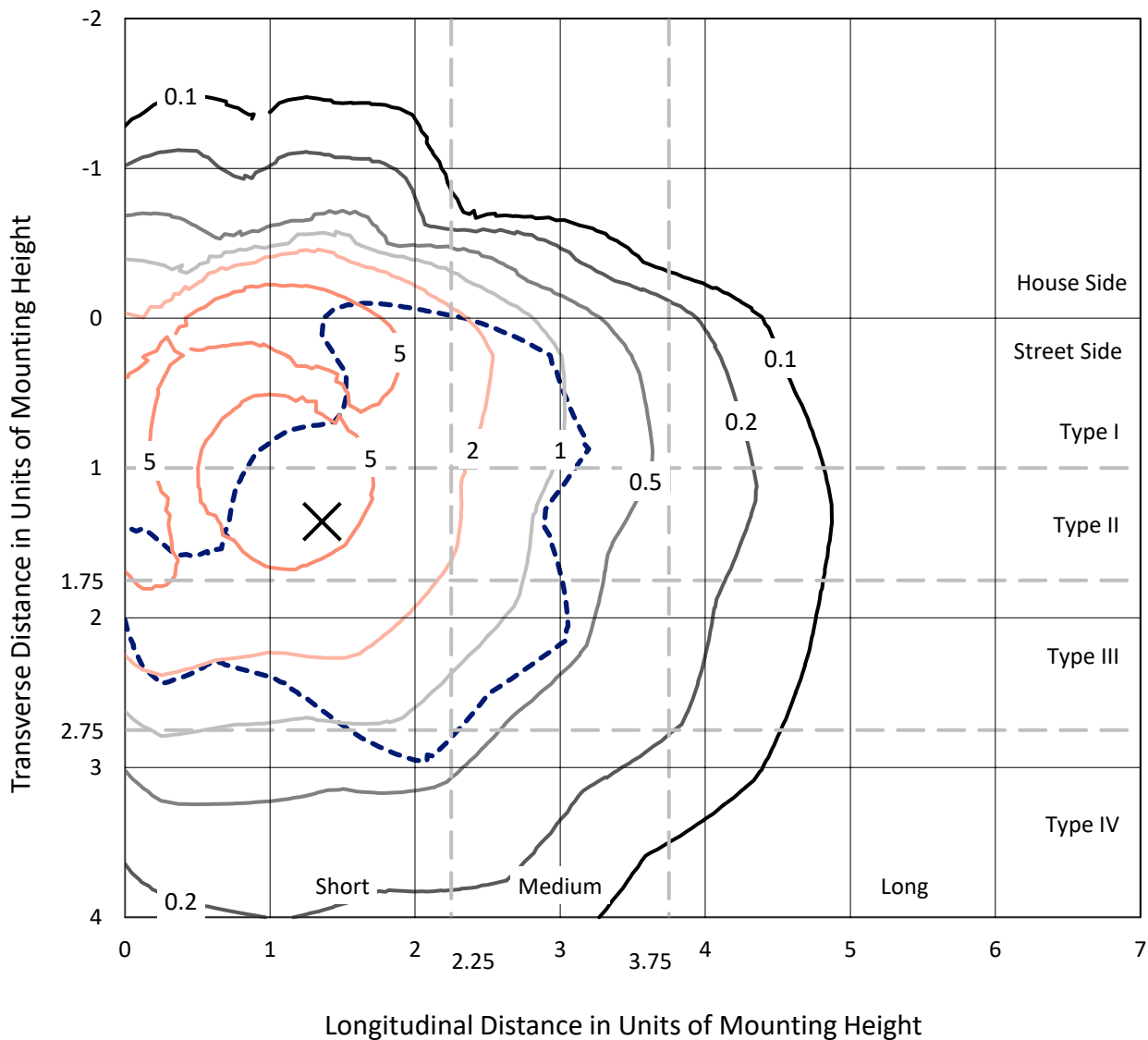
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P641180
 CATALOG NUMBER: GWS-SA5F-735-U-SLR-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

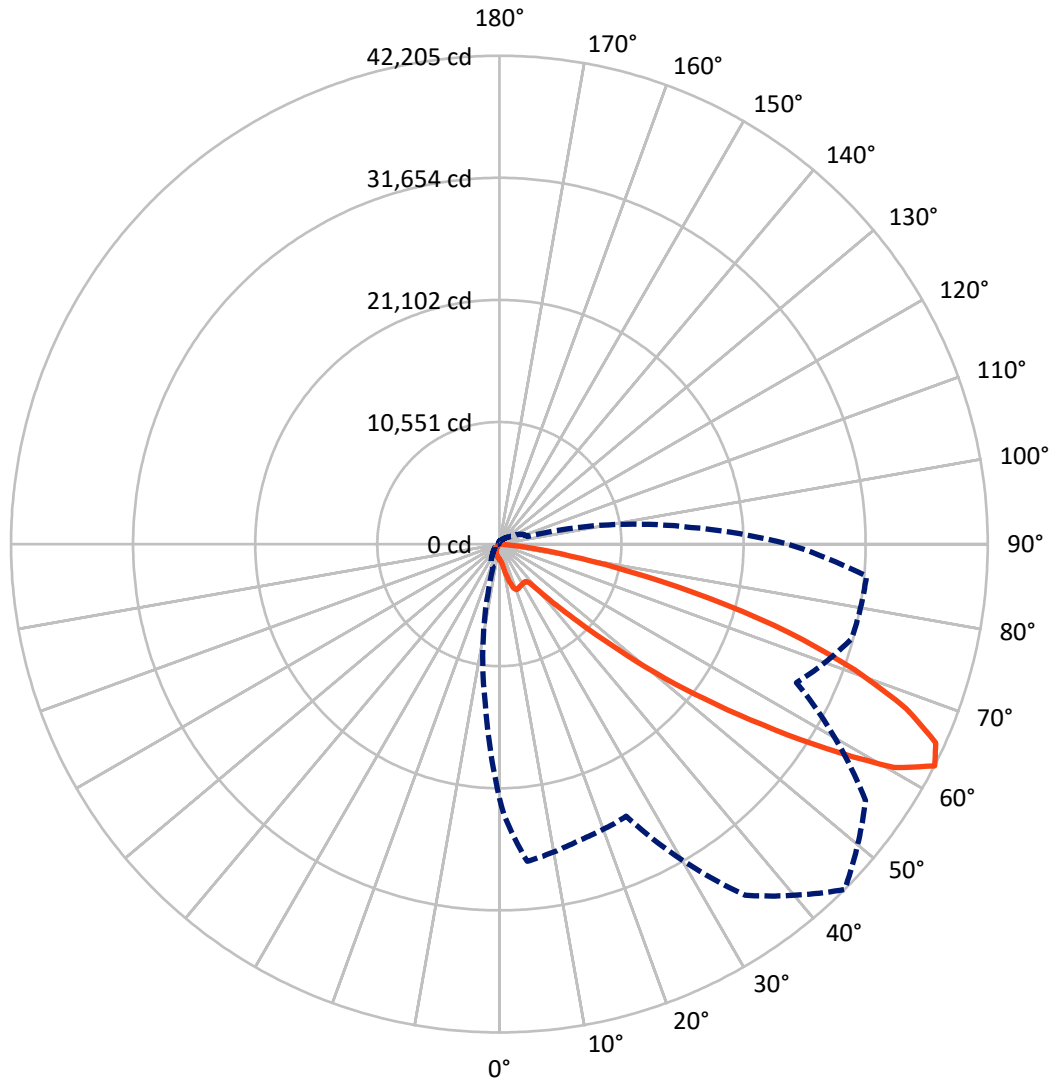
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P641180
CATALOG NUMBER: GWS-SA5F-735-U-SLR-W-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P641180

CATALOG NUMBER: GWS-SA5F-735-U-SLR-W-HSS

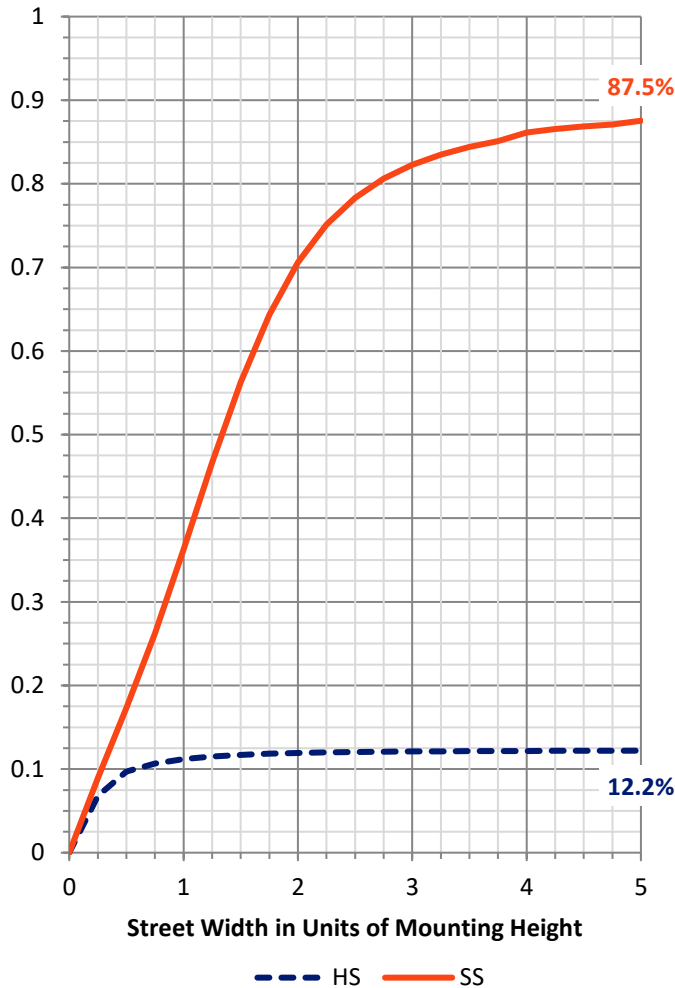
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3152.5	0.0	3152.5
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	22395.1	0.0	22395.1
	% Fixture	87.7	0.0	87.7
Total	Lumens	25547.6	0.0	25547.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.8	0.5
10°-20°	445.4	1.7
20°-30°	968.2	3.8
30°-40°	1589.2	6.2
40°-50°	2921.5	11.4
50°-60°	6274.1	24.6
60°-70°	8427.1	33.0
70°-80°	4388.1	17.2
80°-90°	416.1	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°	25547.6	100.0
0°-180°	25547.6	100.0

Coefficient of Utilization



REPORT NUMBER: P641180

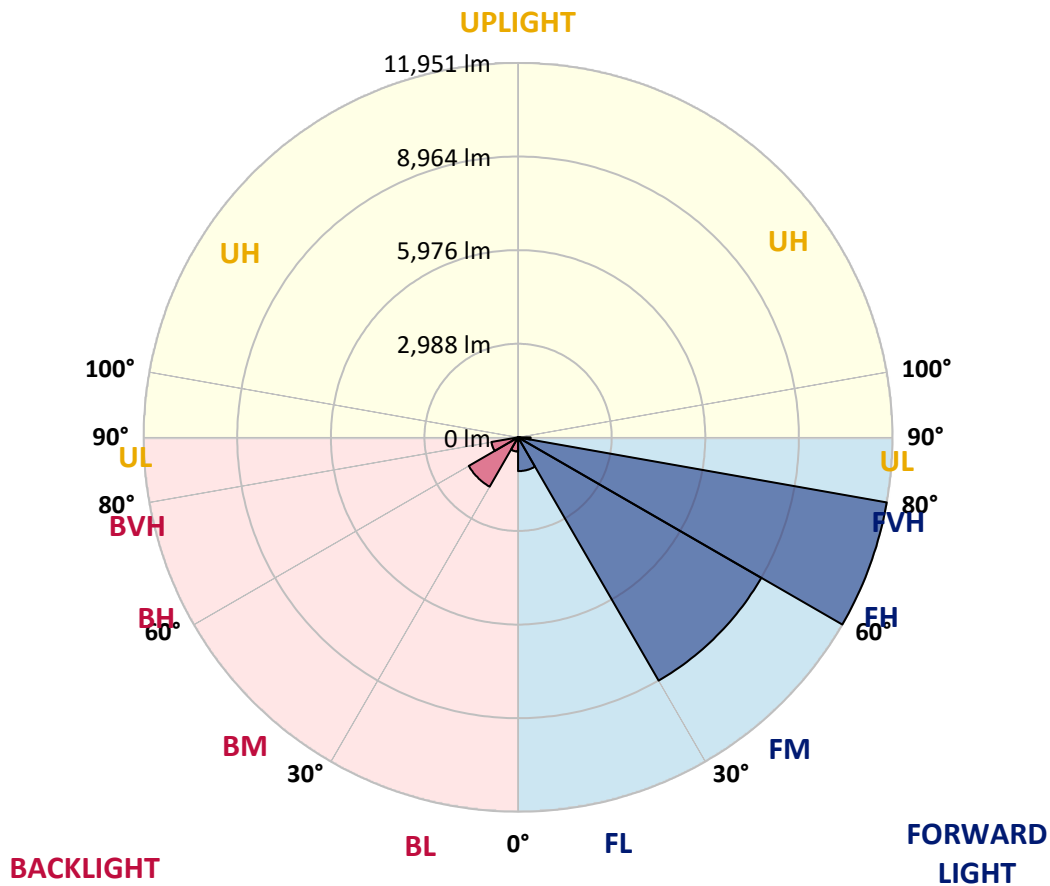
CATALOG NUMBER: GWS-SA5F-735-U-SLR-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1079.3	4.2			
FM (30°-60°)	8966.9	35.1			
FH (60°-80°)	11951.4	46.8			G4/12000
FVH (80°-90°)	397.5	1.6			G3/500
BL (0°-30°)	452.2	1.8	B1/500		
BM (30°-60°)	1818.0	7.1	B2/2500		
BH (60°-80°)	863.8	3.4	B2/1000		G2/1000
BVH (80°-90°)	18.6	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-G4

Type IV Short





REPORT NUMBER: P641180

CATALOG NUMBER: GWS-SA5F-735-U-SLR-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1327.9	1327.9	1327.9	1327.9	1327.9	1327.9	1327.9	1327.9	1327.9	1327.9	1327.9
2.5°	1354.5	1360.4	1366.3	1387.0	1401.7	1413.5	1416.5	1407.6	1387.0	1366.3	1336.8
5°	1313.2	1319.1	1339.7	1395.8	1451.9	1496.1	1510.9	1502.0	1451.9	1387.0	1319.1
7.5°	1310.2	1322.0	1372.2	1490.2	1611.2	1702.7	1726.3	1705.7	1611.2	1481.4	1342.7
10°	1416.5	1437.1	1510.9	1723.4	1944.7	2107.0	2171.9	2083.4	1932.9	1696.8	1469.6
12.5°	1693.9	1729.3	1870.9	2180.8	2523.1	2738.5	2827.0	2717.9	2481.8	2139.5	1779.4
15°	2130.6	2183.7	2396.2	2859.5	3263.8	3455.6	3485.1	3423.1	3148.7	2771.0	2287.0
17.5°	2747.4	2824.1	3154.6	3626.8	3918.9	3986.8	3977.9	3913.0	3712.3	3452.6	2995.2
20°	3485.1	3576.6	3901.2	4290.7	4320.2	4240.6	4196.3	4157.9	4090.1	4045.8	3688.7
22.5°	4228.8	4340.9	4680.3	4777.6	4512.0	4281.9	4172.7	4202.2	4302.5	4520.9	4376.3
25°	4969.4	5075.7	5394.4	5131.8	4600.6	4216.9	4078.3	4149.1	4388.1	4860.3	5046.2
27.5°	5834.1	5913.8	6102.6	5373.7	4615.3	4163.8	4028.1	4137.3	4429.4	5072.7	5781.0
30°	6734.1	6781.3	6689.9	5438.7	4565.2	4084.2	3977.9	4137.3	4500.2	5214.4	6332.8
32.5°	7395.2	7404.0	7106.0	5444.6	4538.6	4019.2	3930.7	4119.6	4568.1	5332.4	6866.9
35°	8076.8	8032.6	7504.3	5533.1	4609.4	4042.8	3966.1	4169.7	4674.4	5471.1	7336.1
37.5°	8767.4	8687.7	7949.9	5677.7	4792.4	4299.6	4252.4	4426.5	4845.5	5662.9	7852.6
40°	9475.6	9366.4	8413.2	5896.1	5199.6	5173.1	5335.4	5314.7	5314.7	5907.9	8383.7
42.5°	10340.2	10213.3	9097.9	6512.8	6149.8	6743.0	7185.6	6911.2	6403.6	6471.5	9074.3
45°	11482.3	11373.1	10284.2	7693.2	7640.1	9003.4	9599.5	9056.6	7793.5	7772.9	10228.1
47.5°	13308.9	13288.3	12175.7	9062.5	9463.8	11880.6	13031.5	11986.9	9378.2	9151.0	12411.8
50°	15876.3	15814.3	14533.6	10667.8	11632.8	15445.4	17499.3	15758.2	11293.4	10759.3	15336.2
52.5°	18768.2	18833.1	17835.7	12420.7	13937.5	19411.5	22271.0	20078.5	13373.8	12804.3	19016.1
55°	21492.0	21863.8	21601.2	14471.6	16189.1	23790.8	27512.0	24817.7	15950.0	15480.8	23141.6
57.5°	23622.6	24670.2	26511.6	17452.1	18836.1	28913.7	33363.8	29955.4	18957.1	19827.6	28757.3
60°	23740.6	25127.6	29403.6	23687.5	22241.5	33307.7	39206.7	34975.0	23684.6	27208.0	33157.2
62.5°	21961.2	23448.5	27520.8	26520.4	25950.9	37046.6	42204.9	38634.2	28335.3	31531.2	31852.9
65°	19925.0	21427.1	25419.7	23306.8	25520.1	36887.2	41443.5	38719.8	28757.3	28592.0	29518.6
67.5°	16847.1	18195.7	21810.7	20630.3	23522.3	35107.8	37926.0	36279.3	26493.9	26741.8	27154.9
70°	12296.7	13595.2	16950.4	17009.4	20541.8	31900.1	32587.7	32360.4	24398.7	24661.3	23480.9
72.5°	8882.4	9977.3	12872.2	13949.3	16398.6	26750.6	26275.5	27152.0	20934.2	21964.1	18859.7
75°	6385.9	7206.3	9443.1	12134.4	12999.1	19866.0	18809.5	21028.7	16797.0	18912.8	14179.5
77.5°	2591.0	2880.2	3715.3	8174.2	8543.1	13365.0	11514.7	15274.3	11975.1	12426.6	6872.8
80°	106.2	118.0	153.5	4219.9	5857.7	7519.1	6161.6	8165.4	7908.6	5004.9	1623.0
82.5°	11.8	11.8	26.6	1215.8	2564.4	4149.1	2903.8	4703.9	4004.5	2121.8	737.7
85°	3.0	3.0	5.9	138.7	602.0	664.0	392.5	1443.0	1862.1	867.6	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.8	26.6	29.5	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: P641180

CATALOG NUMBER: GWS-SA5F-735-U-SLR-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1327.9	1327.9	1327.9	1327.9	1327.9	1327.9	1327.9	1327.9	1327.9	1327.9	1327.9
2.5°	1336.8	1322.0	1304.3	1286.6	1277.8	1254.2	1245.3	1239.4	1233.5	1236.5	1236.5
5°	1292.5	1260.1	1221.7	1183.3	1162.7	1139.1	1127.3	1121.4	1124.3	1136.1	1136.1
7.5°	1286.6	1224.7	1142.0	1091.9	1068.3	1050.5	1038.7	1032.8	1035.8	1050.5	1056.5
10°	1384.0	1274.8	1127.3	1041.7	1015.1	997.4	985.6	976.8	970.9	982.7	985.6
12.5°	1593.5	1443.0	1198.1	1035.8	988.6	965.0	956.1	938.4	929.6	935.5	938.4
15°	2027.3	1767.6	1339.7	1059.4	965.0	938.4	923.7	908.9	894.1	891.2	894.1
17.5°	2593.9	2222.1	1555.2	1115.5	947.3	914.8	894.1	873.5	852.8	849.9	846.9
20°	3296.2	2779.8	1856.2	1204.0	932.5	894.1	864.6	835.1	808.6	799.7	799.7
22.5°	3936.6	3452.6	2242.7	1313.2	911.9	864.6	829.2	793.8	764.3	749.5	746.6
25°	4718.6	4166.8	2706.0	1440.1	882.3	826.3	787.9	752.5	723.0	705.3	699.4
27.5°	5506.5	4919.3	3231.3	1605.3	846.9	787.9	752.5	720.0	687.6	666.9	661.0
30°	6270.8	5730.8	3821.5	1811.9	820.4	749.5	720.0	687.6	658.1	625.6	616.8
32.5°	7091.2	6560.0	4482.5	2042.1	799.7	723.0	690.5	661.0	622.7	593.1	578.4
35°	7882.1	7415.8	5211.4	2266.4	779.1	699.4	664.0	634.5	593.1	560.7	540.0
37.5°	8678.8	8286.3	5972.8	2402.1	749.5	666.9	634.5	610.9	563.6	525.3	501.7
40°	9522.8	9186.4	6796.1	2346.0	723.0	631.5	613.8	587.2	534.1	489.9	460.4
42.5°	10449.4	10045.1	7634.2	2130.6	699.4	602.0	584.3	557.7	507.6	454.5	416.1
45°	11615.1	10986.5	8321.8	1806.0	711.2	572.5	537.1	531.2	484.0	416.1	368.9
47.5°	13618.8	12432.5	8855.9	1596.5	790.9	540.0	498.7	513.5	463.3	377.7	324.6
50°	16684.8	14828.7	9354.6	1581.7	911.9	525.3	463.3	501.7	442.6	339.4	286.2
52.5°	19606.3	17263.2	9673.3	1711.6	1018.1	563.6	427.9	486.9	427.9	312.8	259.7
55°	22400.9	18667.9	9103.8	1806.0	1118.4	678.7	401.3	463.3	410.2	298.0	250.8
57.5°	25413.8	19293.5	7167.9	1997.8	1189.2	776.1	407.2	427.9	386.6	289.2	247.9
60°	26313.9	18493.8	4326.1	2248.6	1150.9	805.6	451.5	380.7	354.1	271.5	239.0
62.5°	24915.1	16596.3	2552.6	2048.0	1118.4	761.4	516.4	351.2	321.7	247.9	221.3
65°	22822.9	14020.1	1664.4	1729.3	1186.3	678.7	548.9	336.4	292.1	224.3	194.8
67.5°	20432.6	11293.4	1165.6	1021.0	1094.8	610.9	463.3	333.5	262.6	188.9	159.4
70°	17210.1	8457.5	820.4	675.8	911.9	543.0	360.0	324.6	230.2	153.5	123.9
72.5°	13297.1	5294.1	610.9	436.7	649.2	442.6	286.2	274.4	185.9	126.9	94.4
75°	9806.1	3018.9	430.8	315.8	427.9	336.4	212.5	194.8	159.4	121.0	85.6
77.5°	5119.9	1510.9	268.5	242.0	244.9	209.5	153.5	141.6	147.5	121.0	79.7
80°	982.7	301.0	162.3	177.1	132.8	132.8	112.1	118.0	129.8	97.4	67.9
82.5°	410.2	64.9	88.5	100.3	82.6	91.5	91.5	94.4	91.5	70.8	50.2
85°	0.0	0.0	38.4	41.3	56.1	56.1	47.2	47.2	47.2	41.3	29.5
87.5°	0.0	0.0	0.0	0.0	3.0	8.9	17.7	20.7	23.6	17.7	11.8
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: P641180
 CATALOG NUMBER: GWS-SA5F-735-U-SLR-W-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1327.9	1327.9	1327.9	1327.9	1327.9	1327.9	1327.9	1327.9	1327.9	1327.9	1327.9
2.5°	1233.5	1227.6	1236.5	1242.4	1248.3	1248.3	1242.4	1236.5	1227.6	1236.5	1227.6
5°	1139.1	1147.9	1162.7	1168.6	1174.5	1162.7	1156.8	1139.1	1124.3	1127.3	1121.4
7.5°	1065.3	1074.2	1091.9	1103.7	1103.7	1097.8	1080.1	1062.4	1038.7	1038.7	1035.8
10°	997.4	1009.2	1029.9	1044.6	1050.5	1044.6	1026.9	1003.3	982.7	982.7	973.8
12.5°	941.4	956.1	979.7	1000.4	1006.3	1000.4	982.7	959.1	935.5	935.5	929.6
15°	894.1	911.9	938.4	962.0	970.9	962.0	941.4	911.9	888.2	891.2	882.3
17.5°	849.9	864.6	900.0	926.6	935.5	926.6	900.0	861.7	838.1	844.0	838.1
20°	799.7	817.4	852.8	882.3	891.2	882.3	852.8	811.5	787.9	787.9	790.9
22.5°	746.6	764.3	799.7	820.4	832.2	823.3	793.8	755.5	731.8	731.8	734.8
25°	699.4	708.2	734.8	755.5	758.4	749.5	725.9	696.4	678.7	687.6	690.5
27.5°	655.1	655.1	666.9	678.7	675.8	666.9	658.1	634.5	631.5	640.4	649.2
30°	607.9	593.1	587.2	578.4	575.4	572.5	581.3	581.3	587.2	599.0	607.9
32.5°	566.6	537.1	510.5	484.0	469.2	481.0	504.6	525.3	545.9	563.6	572.5
35°	519.4	472.2	427.9	392.5	368.9	386.6	424.9	463.3	498.7	522.3	537.1
37.5°	472.2	404.3	351.2	306.9	289.2	304.0	345.3	398.4	451.5	481.0	501.7
40°	422.0	336.4	274.4	239.0	221.3	236.1	277.4	330.5	401.3	439.7	466.3
42.5°	371.8	277.4	221.3	185.9	177.1	185.9	218.4	271.5	348.2	395.4	430.8
45°	321.7	230.2	177.1	150.5	141.6	150.5	177.1	221.3	298.0	351.2	392.5
47.5°	277.4	194.8	147.5	123.9	118.0	126.9	147.5	185.9	250.8	304.0	351.2
50°	242.0	171.2	126.9	106.2	100.3	109.2	126.9	156.4	212.5	259.7	309.9
52.5°	218.4	159.4	112.1	91.5	88.5	94.4	109.2	132.8	180.0	221.3	268.5
55°	212.5	159.4	103.3	82.6	79.7	85.6	97.4	115.1	156.4	191.8	233.1
57.5°	218.4	171.2	97.4	70.8	67.9	73.8	85.6	100.3	135.7	165.3	203.6
60°	218.4	174.1	85.6	56.1	53.1	59.0	70.8	88.5	121.0	144.6	177.1
62.5°	197.7	159.4	70.8	44.3	38.4	44.3	59.0	73.8	106.2	129.8	156.4
65°	171.2	135.7	59.0	32.5	26.6	32.5	47.2	62.0	91.5	112.1	141.6
67.5°	138.7	103.3	44.3	23.6	17.7	23.6	35.4	50.2	76.7	97.4	126.9
70°	103.3	73.8	35.4	20.7	17.7	20.7	32.5	47.2	67.9	88.5	118.0
72.5°	76.7	50.2	29.5	20.7	14.8	20.7	29.5	44.3	64.9	85.6	112.1
75°	64.9	41.3	26.6	17.7	14.8	17.7	26.6	41.3	59.0	79.7	106.2
77.5°	62.0	38.4	23.6	14.8	11.8	14.8	23.6	35.4	53.1	73.8	103.3
80°	53.1	32.5	20.7	11.8	8.9	11.8	20.7	29.5	41.3	56.1	79.7
82.5°	41.3	26.6	14.8	5.9	3.0	5.9	14.8	17.7	26.6	32.5	47.2
85°	26.6	14.8	5.9	0.0	0.0	0.0	5.9	11.8	11.8	14.8	23.6
87.5°	11.8	3.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	5.9	8.9
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: P641180
 CATALOG NUMBER: GWS-SA5F-735-U-SLR-W-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1327.9	1327.9	1327.9	1327.9	1327.9	1327.9	1327.9	1327.9	1327.9	1327.9
2.5°	1245.3	1248.3	1254.2	1263.0	1283.7	1301.4	1319.1	1342.7	1354.5	1354.5
5°	1127.3	1130.2	1133.2	1145.0	1174.5	1198.1	1236.5	1283.7	1307.3	1313.2
7.5°	1035.8	1041.7	1047.6	1056.5	1086.0	1118.4	1168.6	1257.1	1301.4	1310.2
10°	982.7	991.5	1003.3	1021.0	1047.6	1083.0	1168.6	1327.9	1401.7	1416.5
12.5°	941.4	956.1	967.9	988.6	1021.0	1077.1	1248.3	1528.6	1658.5	1693.9
15°	900.0	917.8	935.5	956.1	991.5	1097.8	1401.7	1888.6	2104.0	2130.6
17.5°	858.7	879.4	903.0	926.6	970.9	1147.9	1643.7	2387.3	2688.3	2747.4
20°	811.5	838.1	870.5	900.0	950.2	1227.6	1980.1	2980.5	3358.2	3485.1
22.5°	761.4	793.8	832.2	870.5	926.6	1325.0	2387.3	3617.9	4146.1	4228.8
25°	720.0	752.5	787.9	826.3	888.2	1443.0	2880.2	4408.8	4889.8	4969.4
27.5°	681.7	714.1	746.6	782.0	849.9	1596.5	3473.3	5249.8	5751.5	5834.1
30°	640.4	678.7	711.2	746.6	814.5	1785.3	4157.9	6182.3	6657.4	6734.1
32.5°	605.0	643.3	675.8	711.2	787.9	1991.9	4878.0	7008.6	7395.2	7395.2
35°	575.4	616.8	640.4	687.6	767.3	2124.7	5559.6	7796.5	8088.6	8076.8
37.5°	543.0	593.1	610.9	643.3	740.7	2139.5	6200.0	8628.7	8844.1	8767.4
40°	510.5	563.6	590.2	607.9	711.2	2018.5	6902.3	9393.0	9575.9	9475.6
42.5°	481.0	522.3	560.7	581.3	693.5	1806.0	7466.0	10210.4	10428.8	10340.2
45°	451.5	486.9	510.5	548.9	705.3	1658.5	7949.9	11163.6	11547.2	11482.3
47.5°	422.0	451.5	466.3	525.3	785.0	1590.6	8245.0	12639.0	13362.0	13308.9
50°	389.5	424.9	424.9	519.4	903.0	1614.2	8501.8	14775.6	15894.0	15876.3
52.5°	357.1	395.4	389.5	563.6	994.5	1723.4	8793.9	16661.2	18605.9	18768.2
55°	324.6	360.0	365.9	652.2	1047.6	1817.8	7663.7	17455.0	20922.4	21492.0
57.5°	289.2	309.9	380.7	720.0	1029.9	2092.2	5249.8	17599.6	22400.9	23622.6
60°	250.8	268.5	430.8	705.3	973.8	1932.9	3305.1	16301.2	22191.4	23740.6
62.5°	218.4	247.9	454.5	622.7	991.5	1676.2	2107.0	13893.2	20193.5	21961.2
65°	191.8	239.0	413.1	563.6	1003.3	1136.1	1422.4	11302.2	18243.0	19925.0
67.5°	171.2	265.6	339.4	501.7	861.7	799.7	976.8	8782.1	15339.2	16847.1
70°	156.4	271.5	277.4	430.8	666.9	513.5	643.3	5910.8	10573.4	12296.7
72.5°	141.6	200.7	209.5	345.3	430.8	312.8	416.1	3381.8	7708.0	8882.4
75°	135.7	135.7	144.6	224.3	239.0	227.2	268.5	2018.5	5527.2	6385.9
77.5°	126.9	103.3	91.5	144.6	129.8	162.3	159.4	897.1	2396.2	2591.0
80°	100.3	73.8	62.0	91.5	88.5	109.2	94.4	73.8	109.2	106.2
82.5°	62.0	47.2	44.3	56.1	50.2	56.1	44.3	11.8	11.8	11.8
85°	29.5	26.6	23.6	23.6	26.6	23.6	17.7	5.9	3.0	3.0
87.5°	14.8	14.8	11.8	8.9	11.8	11.8	8.9	3.0	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)