

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: P639805

Luminaire Tested: GWS-SA5C-750-U-SLR-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639805  
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-SA5C-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**

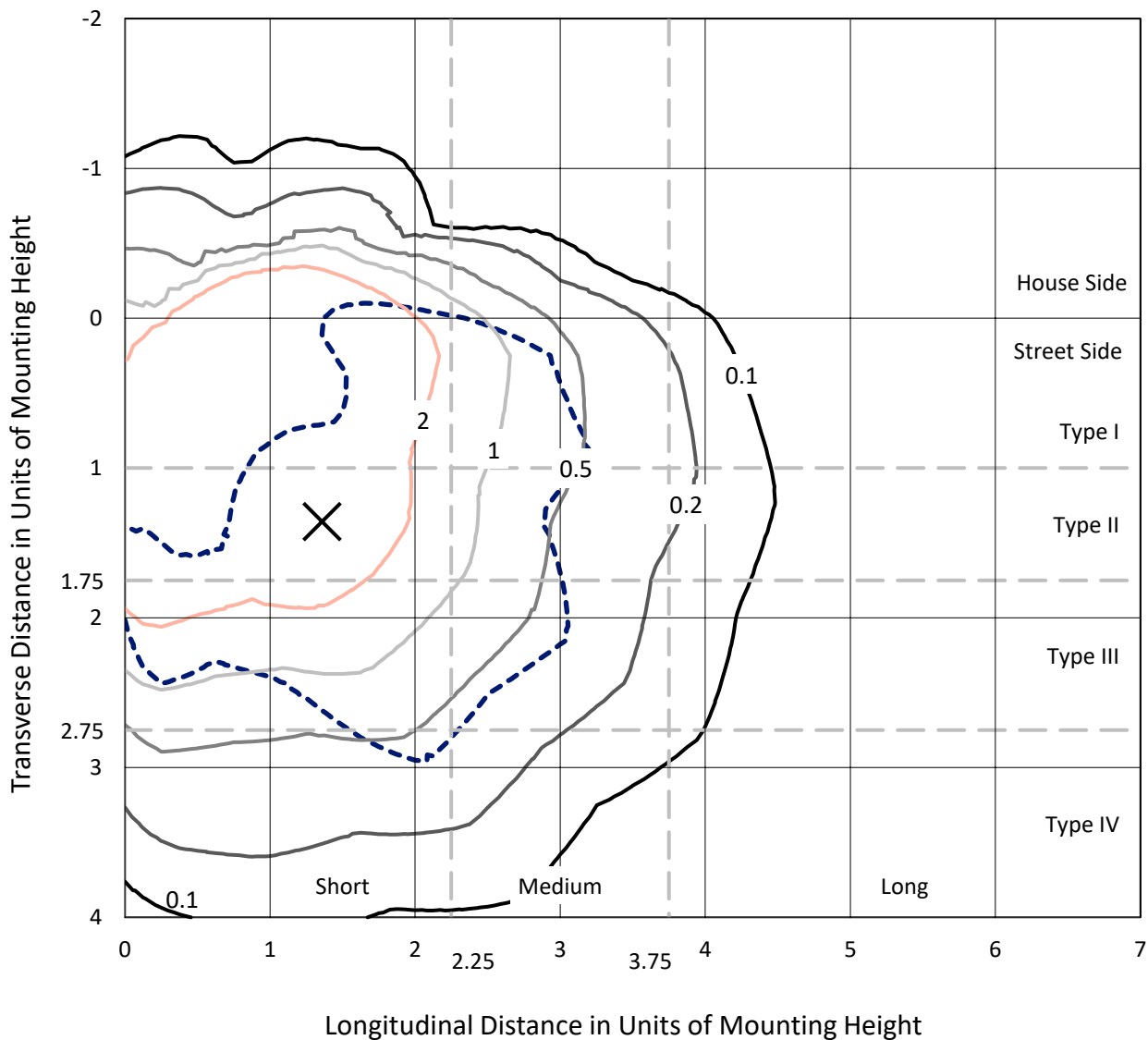
Lumens per Lamp: N/A  
Luminaire Lumens: 15116.6 lumens  
Efficiency: N/A  
Efficacy: 96.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): 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: P639805  
 CATALOG NUMBER: GWS-SA5C-750-U-SLR-W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

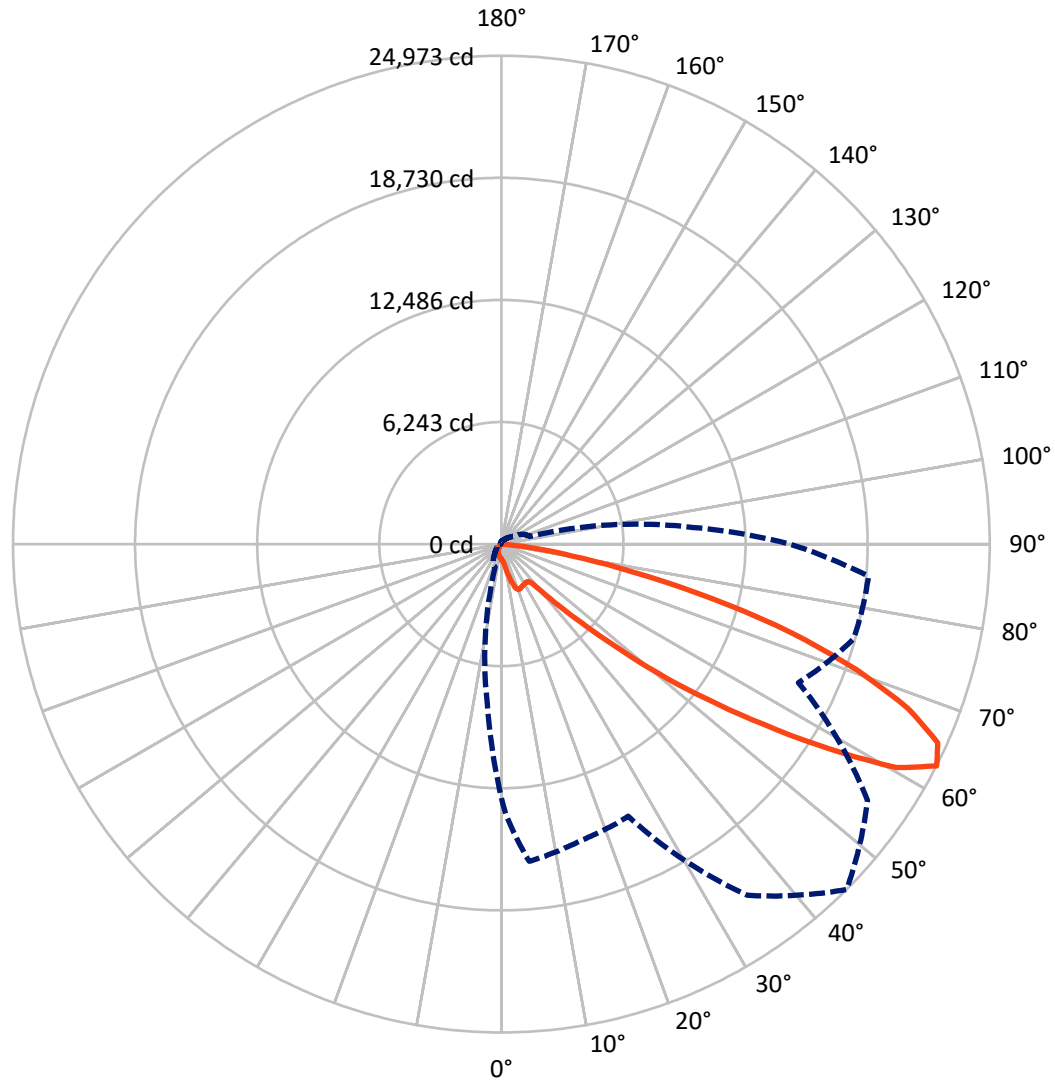
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type IV - Short - N/A

REPORT NUMBER: P639805  
CATALOG NUMBER: GWS-SA5C-750-U-SLR-W-HSS

### Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: GWS-SA5C-750-U-SLR-W-HSS

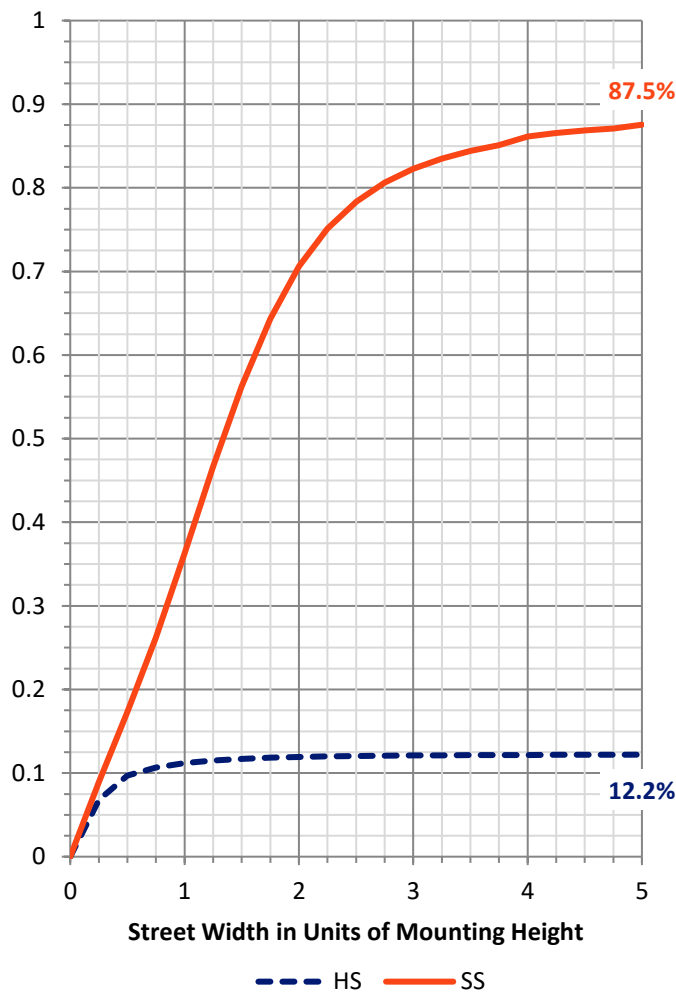
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1865.4	0.0	1865.4
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	13251.2	0.0	13251.2
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	15116.6	0.0	15116.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.7	0.5
10°-20°	263.6	1.7
20°-30°	572.9	3.8
30°-40°	940.3	6.2
40°-50°	1728.7	11.4
50°-60°	3712.4	24.6
60°-70°	4986.4	33.0
70°-80°	2596.4	17.2
80°-90°	246.2	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°	15116.6	100.0
0°-180°	15116.6	100.0

**Coefficient of Utilization**

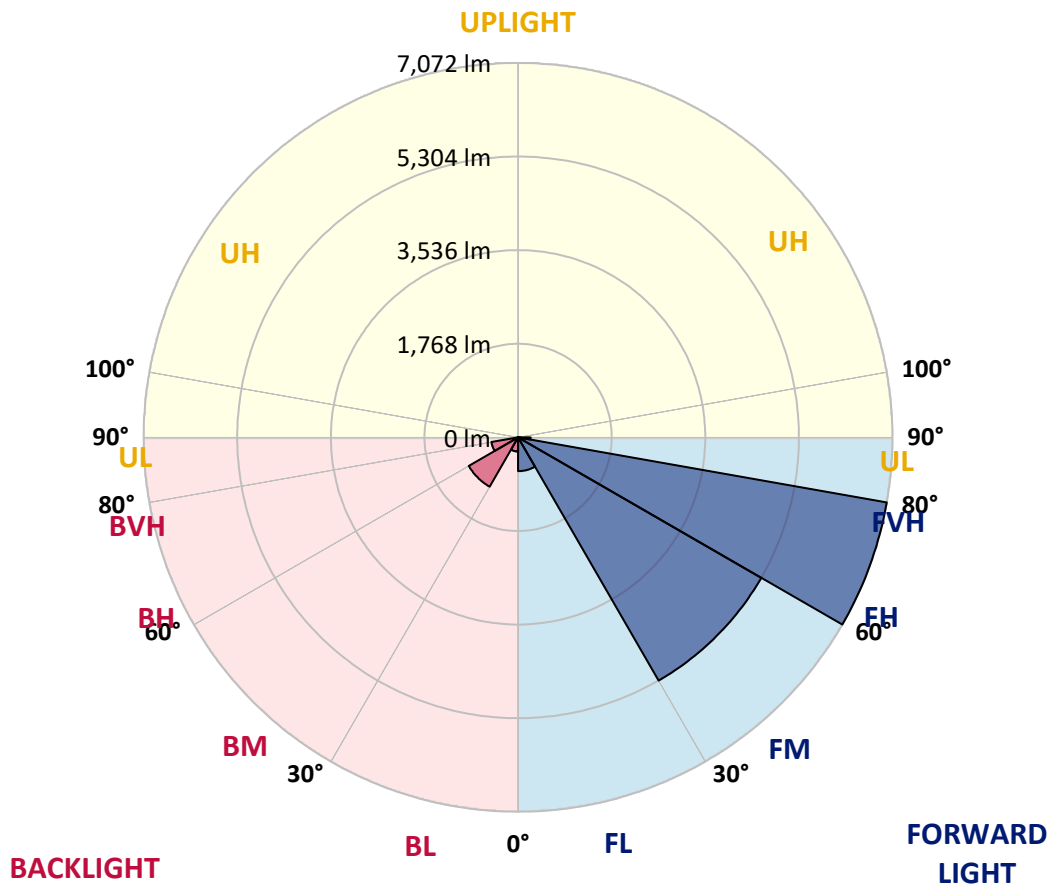


REPORT NUMBER: P639805  
 CATALOG NUMBER: GWS-SA5C-750-U-SLR-W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	638.6	4.2			
FM (30°-60°)	5305.8	35.1			
FH (60°-80°)	7071.7	46.8			G3/7500
FVH (80°-90°)	235.2	1.6			G3/500
BL (0°-30°)	267.6	1.8	B1/500		
BM (30°-60°)	1075.7	7.1	B2/2500		
BH (60°-80°)	511.1	3.4	B2/1000		G2/1000
BVH (80°-90°)	11.0	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-G3**  
 Type IV Short





REPORT NUMBER: P639805

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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	785.7	785.7	785.7	785.7	785.7	785.7	785.7	785.7	785.7	785.7	785.7
2.5°	801.5	805.0	808.4	820.7	829.4	836.4	838.1	832.9	820.7	808.4	791.0
5°	777.0	780.5	792.7	825.9	859.1	885.3	894.0	888.8	859.1	820.7	780.5
7.5°	775.3	782.3	811.9	881.8	953.4	1007.5	1021.5	1009.2	953.4	876.5	794.5
10°	838.1	850.4	894.0	1019.7	1150.7	1246.7	1285.1	1232.7	1143.7	1004.0	869.6
12.5°	1002.3	1023.2	1107.0	1290.4	1492.9	1620.4	1672.8	1608.2	1468.5	1265.9	1052.9
15°	1260.7	1292.1	1417.8	1692.0	1931.2	2044.7	2062.1	2025.5	1863.1	1639.6	1353.2
17.5°	1625.6	1671.0	1866.6	2146.0	2318.8	2359.0	2353.7	2315.3	2196.6	2042.9	1772.3
20°	2062.1	2116.3	2308.3	2538.8	2556.3	2509.2	2483.0	2460.3	2420.1	2393.9	2182.6
22.5°	2502.2	2568.5	2769.3	2826.9	2669.8	2533.6	2469.0	2486.5	2545.8	2675.0	2589.5
25°	2940.4	3003.3	3191.9	3036.5	2722.2	2495.2	2413.1	2455.0	2596.5	2875.8	2985.8
27.5°	3452.0	3499.2	3610.9	3179.7	2730.9	2463.8	2383.4	2448.0	2620.9	3001.6	3420.6
30°	3984.6	4012.5	3958.4	3218.1	2701.2	2416.6	2353.7	2448.0	2662.8	3085.4	3747.1
32.5°	4375.7	4381.0	4204.6	3221.6	2685.5	2378.2	2325.8	2437.6	2703.0	3155.2	4063.2
35°	4779.1	4752.9	4440.3	3273.9	2727.4	2392.2	2346.8	2467.2	2765.8	3237.3	4340.8
37.5°	5187.7	5140.5	4704.0	3359.5	2835.7	2544.1	2516.1	2619.2	2867.1	3350.8	4646.4
40°	5606.7	5542.1	4978.1	3488.7	3076.6	3060.9	3157.0	3144.7	3144.7	3495.7	4960.7
42.5°	6118.3	6043.3	5383.2	3853.7	3638.9	3989.8	4251.8	4089.4	3789.0	3829.2	5369.3
45°	6794.1	6729.5	6085.2	4552.1	4520.7	5327.4	5680.1	5358.8	4611.5	4599.2	6052.0
47.5°	7874.9	7862.7	7204.4	5362.3	5599.8	7029.8	7710.8	7092.7	5549.1	5414.7	7344.1
50°	9394.0	9357.4	8599.6	6312.2	6883.1	9139.1	10354.4	9324.2	6682.3	6366.3	9074.5
52.5°	11105.2	11143.6	10553.5	7349.4	8246.8	11485.9	13177.8	11880.5	7913.3	7576.3	11251.9
55°	12716.9	12936.9	12781.5	8562.9	9579.1	14077.1	16278.9	14684.7	9437.7	9160.1	13692.9
57.5°	13977.6	14597.4	15687.0	10326.5	11145.4	17108.3	19741.5	17724.7	11217.0	11732.1	17015.8
60°	14047.4	14868.1	17398.2	14016.0	13160.4	19708.3	23198.7	20694.8	14014.2	16099.1	19619.2
62.5°	12994.5	13874.5	16284.2	15692.2	15355.2	21920.6	24972.8	22860.0	16766.1	18657.1	18847.4
65°	11789.7	12678.5	15040.9	13790.7	15100.3	21826.3	24522.3	22910.6	17015.8	16918.0	17466.3
67.5°	9968.5	10766.5	12905.5	12207.0	13918.2	20773.4	22440.9	21466.6	15676.5	15823.2	16067.6
70°	7276.0	8044.3	10029.6	10064.5	12154.6	18875.4	19282.2	19147.8	14436.8	14592.2	13893.7
72.5°	5255.8	5903.6	7616.5	8253.8	9703.1	15828.4	15547.3	16065.9	12386.9	12996.3	11159.4
75°	3778.6	4264.0	5587.5	7180.0	7691.6	11754.8	11129.7	12442.7	9938.8	11190.8	8390.0
77.5°	1533.1	1704.2	2198.3	4836.7	5055.0	7908.1	6813.3	9037.8	7085.7	7352.8	4066.7
80°	62.9	69.8	90.8	2496.9	3466.0	4449.1	3645.9	4831.5	4679.6	2961.4	960.4
82.5°	7.0	7.0	15.7	719.4	1517.4	2455.0	1718.2	2783.3	2369.5	1255.4	436.5
85°	1.7	1.7	3.5	82.1	356.2	392.9	232.2	853.8	1101.8	513.4	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	15.7	17.5	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: P639805  
 CATALOG NUMBER: GWS-SA5C-750-U-SLR-W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	785.7	785.7	785.7	785.7	785.7	785.7	785.7	785.7	785.7	785.7	785.7
2.5°	791.0	782.3	771.8	761.3	756.1	742.1	736.9	733.4	729.9	731.6	731.6
5°	764.8	745.6	722.9	700.2	688.0	674.0	667.0	663.5	665.3	672.3	672.3
7.5°	761.3	724.6	675.7	646.1	632.1	621.6	614.6	611.1	612.9	621.6	625.1
10°	818.9	754.3	667.0	616.4	600.7	590.2	583.2	578.0	574.5	581.5	583.2
12.5°	942.9	853.8	708.9	612.9	584.9	571.0	565.7	555.3	550.0	553.5	555.3
15°	1199.6	1045.9	792.7	626.9	571.0	555.3	546.5	537.8	529.1	527.3	529.1
17.5°	1534.8	1314.8	920.2	660.0	560.5	541.3	529.1	516.8	504.6	502.9	501.1
20°	1950.4	1644.8	1098.3	712.4	551.8	529.1	511.6	494.1	478.4	473.2	473.2
22.5°	2329.3	2042.9	1327.0	777.0	539.5	511.6	490.7	469.7	452.2	443.5	441.8
25°	2792.0	2465.5	1601.2	852.1	522.1	488.9	466.2	445.3	427.8	417.3	413.8
27.5°	3258.2	2910.8	1912.0	949.9	501.1	466.2	445.3	426.0	406.8	394.6	391.1
30°	3710.5	3390.9	2261.2	1072.1	485.4	443.5	426.0	406.8	389.4	370.2	364.9
32.5°	4195.9	3881.6	2652.3	1208.3	473.2	427.8	408.6	391.1	368.4	351.0	342.2
35°	4663.8	4388.0	3083.6	1341.0	461.0	413.8	392.9	375.4	351.0	331.8	319.5
37.5°	5135.3	4903.1	3534.1	1421.3	443.5	394.6	375.4	361.4	333.5	310.8	296.8
40°	5634.7	5435.6	4021.3	1388.2	427.8	373.7	363.2	347.5	316.0	289.9	272.4
42.5°	6183.0	5943.7	4517.2	1260.7	413.8	356.2	345.7	330.0	300.3	268.9	246.2
45°	6872.7	6500.7	4924.0	1068.6	420.8	338.7	317.8	314.3	286.4	246.2	218.3
47.5°	8058.3	7356.3	5240.1	944.6	468.0	319.5	295.1	303.8	274.1	223.5	192.1
50°	9872.5	8774.2	5535.1	935.9	539.5	310.8	274.1	296.8	261.9	200.8	169.4
52.5°	11601.1	10214.7	5723.7	1012.7	602.4	333.5	253.2	288.1	253.2	185.1	153.7
55°	13254.7	11045.9	5386.7	1068.6	661.8	401.6	237.5	274.1	242.7	176.4	148.4
57.5°	15037.4	11416.0	4241.3	1182.1	703.7	459.2	241.0	253.2	228.7	171.1	146.7
60°	15570.0	10942.8	2559.8	1330.5	681.0	476.7	267.2	225.2	209.5	160.6	141.4
62.5°	14742.4	9820.1	1510.4	1211.8	661.8	450.5	305.6	207.8	190.3	146.7	131.0
65°	13504.4	8295.7	984.8	1023.2	701.9	401.6	324.8	199.1	172.9	132.7	115.2
67.5°	12090.0	6682.3	689.7	604.2	647.8	361.4	274.1	197.3	155.4	111.8	94.3
70°	10183.3	5004.3	485.4	399.9	539.5	321.3	213.0	192.1	136.2	90.8	73.3
72.5°	7867.9	3132.5	361.4	258.4	384.1	261.9	169.4	162.4	110.0	75.1	55.9
75°	5802.3	1786.3	254.9	186.8	253.2	199.1	125.7	115.2	94.3	71.6	50.6
77.5°	3029.5	894.0	158.9	143.2	144.9	124.0	90.8	83.8	87.3	71.6	47.1
80°	581.5	178.1	96.0	104.8	78.6	78.6	66.4	69.8	76.8	57.6	40.2
82.5°	242.7	38.4	52.4	59.4	48.9	54.1	54.1	55.9	54.1	41.9	29.7
85°	0.0	0.0	22.7	24.4	33.2	33.2	27.9	27.9	27.9	24.4	17.5
87.5°	0.0	0.0	0.0	0.0	1.7	5.2	10.5	12.2	14.0	10.5	7.0
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: P639805

CATALOG NUMBER: GWS-SA5C-750-U-SLR-W-HSS

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	785.7	785.7	785.7	785.7	785.7	785.7	785.7	785.7	785.7	785.7	785.7
2.5°	729.9	726.4	731.6	735.1	738.6	738.6	735.1	731.6	726.4	731.6	726.4
5°	674.0	679.2	688.0	691.5	694.9	688.0	684.5	674.0	665.3	667.0	663.5
7.5°	630.3	635.6	646.1	653.0	653.0	649.6	639.1	628.6	614.6	614.6	612.9
10°	590.2	597.2	609.4	618.1	621.6	618.1	607.6	593.7	581.5	581.5	576.2
12.5°	557.0	565.7	579.7	591.9	595.4	591.9	581.5	567.5	553.5	553.5	550.0
15°	529.1	539.5	555.3	569.2	574.5	569.2	557.0	539.5	525.6	527.3	522.1
17.5°	502.9	511.6	532.6	548.3	553.5	548.3	532.6	509.9	495.9	499.4	495.9
20°	473.2	483.7	504.6	522.1	527.3	522.1	504.6	480.2	466.2	466.2	468.0
22.5°	441.8	452.2	473.2	485.4	492.4	487.2	469.7	447.0	433.0	433.0	434.8
25°	413.8	419.1	434.8	447.0	448.7	443.5	429.5	412.1	401.6	406.8	408.6
27.5°	387.6	387.6	394.6	401.6	399.9	394.6	389.4	375.4	373.7	378.9	384.1
30°	359.7	351.0	347.5	342.2	340.5	338.7	344.0	344.0	347.5	354.5	359.7
32.5°	335.3	317.8	302.1	286.4	277.6	284.6	298.6	310.8	323.0	333.5	338.7
35°	307.3	279.4	253.2	232.2	218.3	228.7	251.4	274.1	295.1	309.1	317.8
37.5°	279.4	239.2	207.8	181.6	171.1	179.8	204.3	235.7	267.2	284.6	296.8
40°	249.7	199.1	162.4	141.4	131.0	139.7	164.1	195.6	237.5	260.2	275.9
42.5°	220.0	164.1	131.0	110.0	104.8	110.0	129.2	160.6	206.0	234.0	254.9
45°	190.3	136.2	104.8	89.1	83.8	89.1	104.8	131.0	176.4	207.8	232.2
47.5°	164.1	115.2	87.3	73.3	69.8	75.1	87.3	110.0	148.4	179.8	207.8
50°	143.2	101.3	75.1	62.9	59.4	64.6	75.1	92.5	125.7	153.7	183.3
52.5°	129.2	94.3	66.4	54.1	52.4	55.9	64.6	78.6	106.5	131.0	158.9
55°	125.7	94.3	61.1	48.9	47.1	50.6	57.6	68.1	92.5	113.5	137.9
57.5°	129.2	101.3	57.6	41.9	40.2	43.7	50.6	59.4	80.3	97.8	120.5
60°	129.2	103.0	50.6	33.2	31.4	34.9	41.9	52.4	71.6	85.6	104.8
62.5°	117.0	94.3	41.9	26.2	22.7	26.2	34.9	43.7	62.9	76.8	92.5
65°	101.3	80.3	34.9	19.2	15.7	19.2	27.9	36.7	54.1	66.4	83.8
67.5°	82.1	61.1	26.2	14.0	10.5	14.0	21.0	29.7	45.4	57.6	75.1
70°	61.1	43.7	21.0	12.2	10.5	12.2	19.2	27.9	40.2	52.4	69.8
72.5°	45.4	29.7	17.5	12.2	8.7	12.2	17.5	26.2	38.4	50.6	66.4
75°	38.4	24.4	15.7	10.5	8.7	10.5	15.7	24.4	34.9	47.1	62.9
77.5°	36.7	22.7	14.0	8.7	7.0	8.7	14.0	21.0	31.4	43.7	61.1
80°	31.4	19.2	12.2	7.0	5.2	7.0	12.2	17.5	24.4	33.2	47.1
82.5°	24.4	15.7	8.7	3.5	1.7	3.5	8.7	10.5	15.7	19.2	27.9
85°	15.7	8.7	3.5	0.0	0.0	0.0	3.5	7.0	7.0	8.7	14.0
87.5°	7.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	1.7	3.5	5.2
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: P639805  
 CATALOG NUMBER: GWS-SA5C-750-U-SLR-W-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	785.7	785.7	785.7	785.7	785.7	785.7	785.7	785.7	785.7	785.7
2.5°	736.9	738.6	742.1	747.3	759.6	770.0	780.5	794.5	801.5	801.5
5°	667.0	668.8	670.5	677.5	694.9	708.9	731.6	759.6	773.5	777.0
7.5°	612.9	616.4	619.9	625.1	642.6	661.8	691.5	743.8	770.0	775.3
10°	581.5	586.7	593.7	604.2	619.9	640.8	691.5	785.7	829.4	838.1
12.5°	557.0	565.7	572.7	584.9	604.2	637.3	738.6	904.5	981.3	1002.3
15°	532.6	543.0	553.5	565.7	586.7	649.6	829.4	1117.5	1245.0	1260.7
17.5°	508.1	520.3	534.3	548.3	574.5	679.2	972.6	1412.6	1590.7	1625.6
20°	480.2	495.9	515.1	532.6	562.2	726.4	1171.6	1763.6	1987.1	2062.1
22.5°	450.5	469.7	492.4	515.1	548.3	784.0	1412.6	2140.7	2453.3	2502.2
25°	426.0	445.3	466.2	488.9	525.6	853.8	1704.2	2608.7	2893.3	2940.4
27.5°	403.4	422.6	441.8	462.7	502.9	944.6	2055.2	3106.3	3403.2	3452.0
30°	378.9	401.6	420.8	441.8	481.9	1056.4	2460.3	3658.1	3939.2	3984.6
32.5°	358.0	380.7	399.9	420.8	466.2	1178.6	2886.3	4147.0	4375.7	4375.7
35°	340.5	364.9	378.9	406.8	454.0	1257.2	3289.7	4613.2	4786.1	4779.1
37.5°	321.3	351.0	361.4	380.7	438.3	1265.9	3668.6	5105.6	5233.1	5187.7
40°	302.1	333.5	349.2	359.7	420.8	1194.3	4084.1	5557.8	5666.1	5606.7
42.5°	284.6	309.1	331.8	344.0	410.3	1068.6	4417.6	6041.5	6170.7	6118.3
45°	267.2	288.1	302.1	324.8	417.3	981.3	4704.0	6605.5	6832.5	6794.1
47.5°	249.7	267.2	275.9	310.8	464.5	941.2	4878.6	7478.6	7906.4	7874.9
50°	230.5	251.4	251.4	307.3	534.3	955.1	5030.5	8742.7	9404.5	9394.0
52.5°	211.3	234.0	230.5	333.5	588.4	1019.7	5203.4	9858.5	11009.2	11105.2
55°	192.1	213.0	216.5	385.9	619.9	1075.6	4534.6	10328.2	12379.9	12716.9
57.5°	171.1	183.3	225.2	426.0	609.4	1238.0	3106.3	10413.8	13254.7	13977.6
60°	148.4	158.9	254.9	417.3	576.2	1143.7	1955.6	9645.5	13130.7	14047.4
62.5°	129.2	146.7	268.9	368.4	586.7	991.8	1246.7	8220.7	11948.6	12994.5
65°	113.5	141.4	244.5	333.5	593.7	672.3	841.6	6687.6	10794.4	11789.7
67.5°	101.3	157.1	200.8	296.8	509.9	473.2	578.0	5196.4	9076.2	9968.5
70°	92.5	160.6	164.1	254.9	394.6	303.8	380.7	3497.4	6256.3	7276.0
72.5°	83.8	118.7	124.0	204.3	254.9	185.1	246.2	2001.0	4560.8	5255.8
75°	80.3	80.3	85.6	132.7	141.4	134.5	158.9	1194.3	3270.5	3778.6
77.5°	75.1	61.1	54.1	85.6	76.8	96.0	94.3	530.8	1417.8	1533.1
80°	59.4	43.7	36.7	54.1	52.4	64.6	55.9	43.7	64.6	62.9
82.5°	36.7	27.9	26.2	33.2	29.7	33.2	26.2	7.0	7.0	7.0
85°	17.5	15.7	14.0	14.0	15.7	14.0	10.5	3.5	1.7	1.7
87.5°	8.7	8.7	7.0	5.2	7.0	7.0	5.2	1.7	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

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