

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: P641345

Luminaire Tested: GWS-SA5F-760-U-SLR-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641345  
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-760-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) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

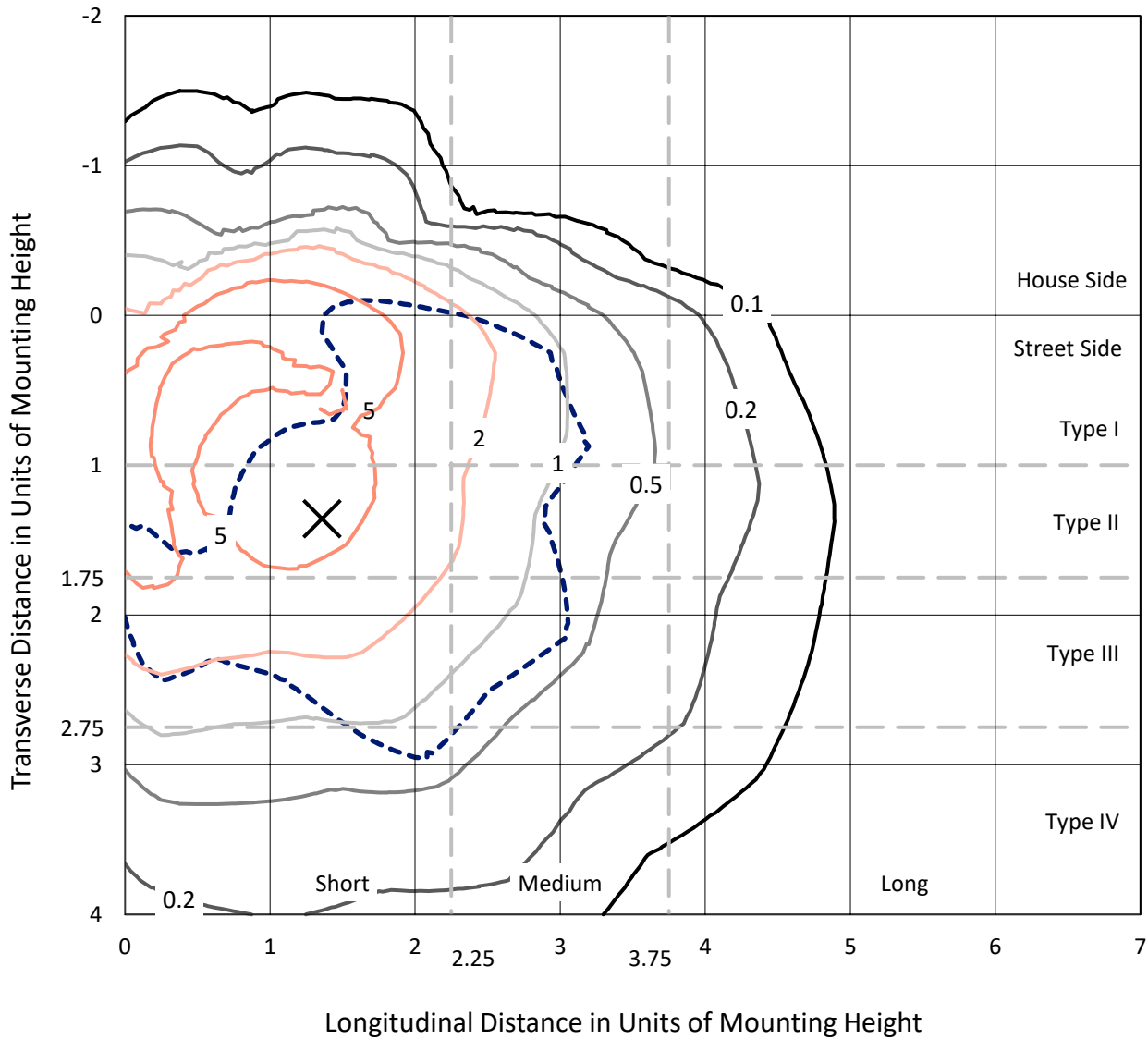
Lumens per Lamp: N/A  
Luminaire Lumens: 26133.1 lumens  
Efficiency: N/A  
Efficacy: 84.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): 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



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### Iso-Footcandle Lines of Horizontal Illumination

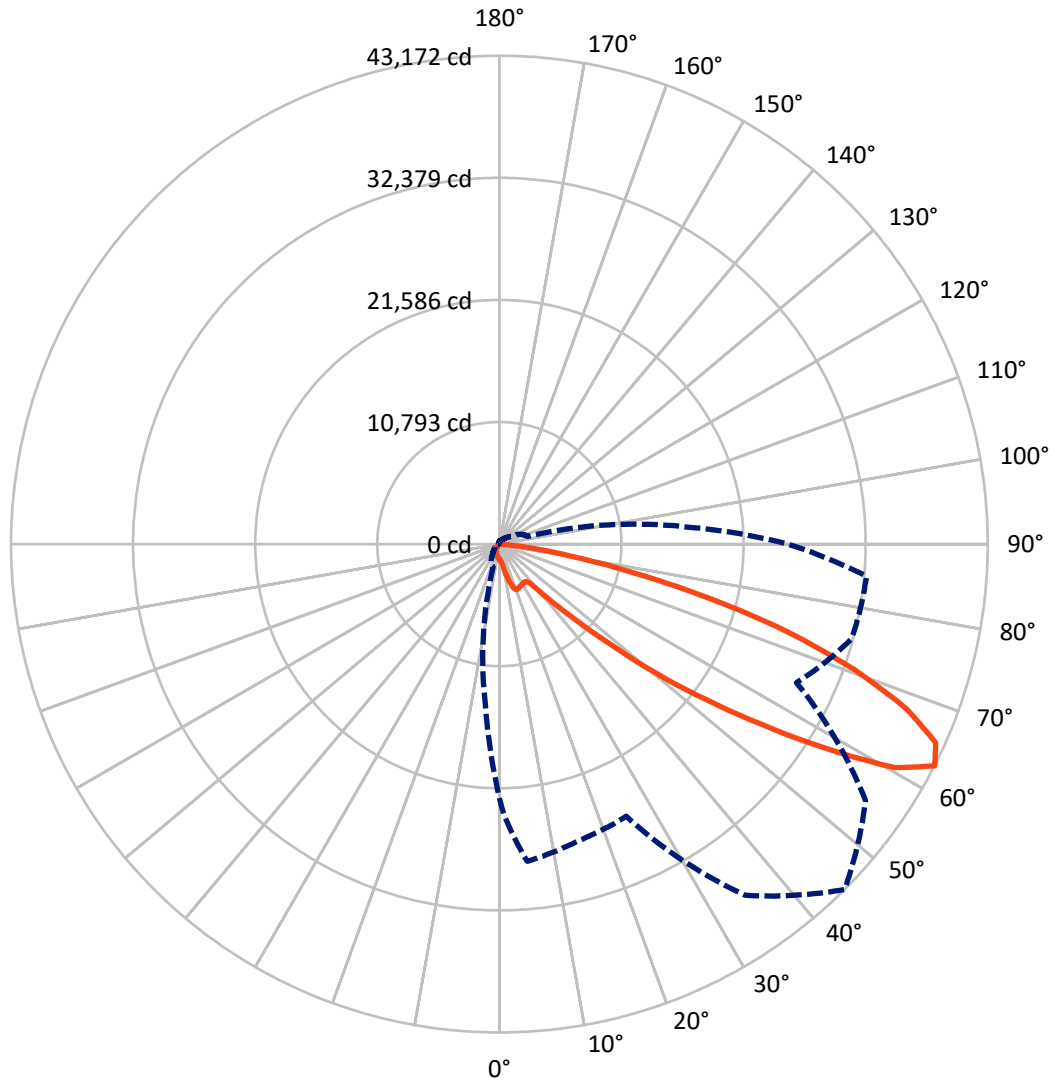
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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

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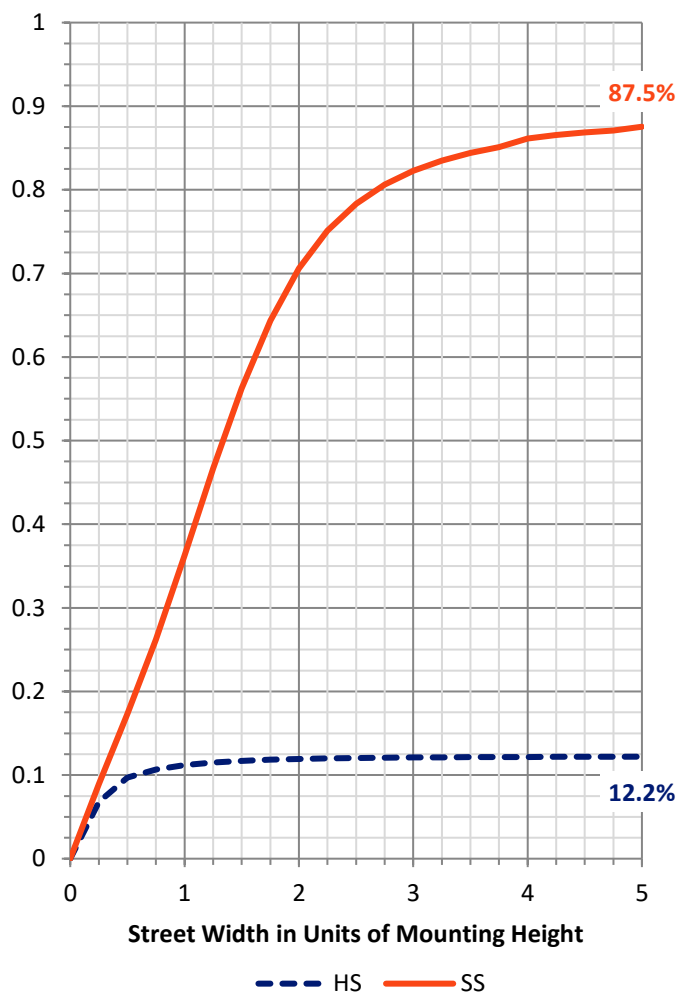
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3224.8	0.0	3224.8
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	22908.3	0.0	22908.3
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	26133.1	0.0	26133.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.5	0.5
10°-20°	455.6	1.7
20°-30°	990.4	3.8
30°-40°	1625.6	6.2
40°-50°	2988.5	11.4
50°-60°	6417.9	24.6
60°-70°	8620.3	33.0
70°-80°	4488.6	17.2
80°-90°	425.6	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°	26133.1	100.0
0°-180°	26133.1	100.0

**Coefficient of Utilization**



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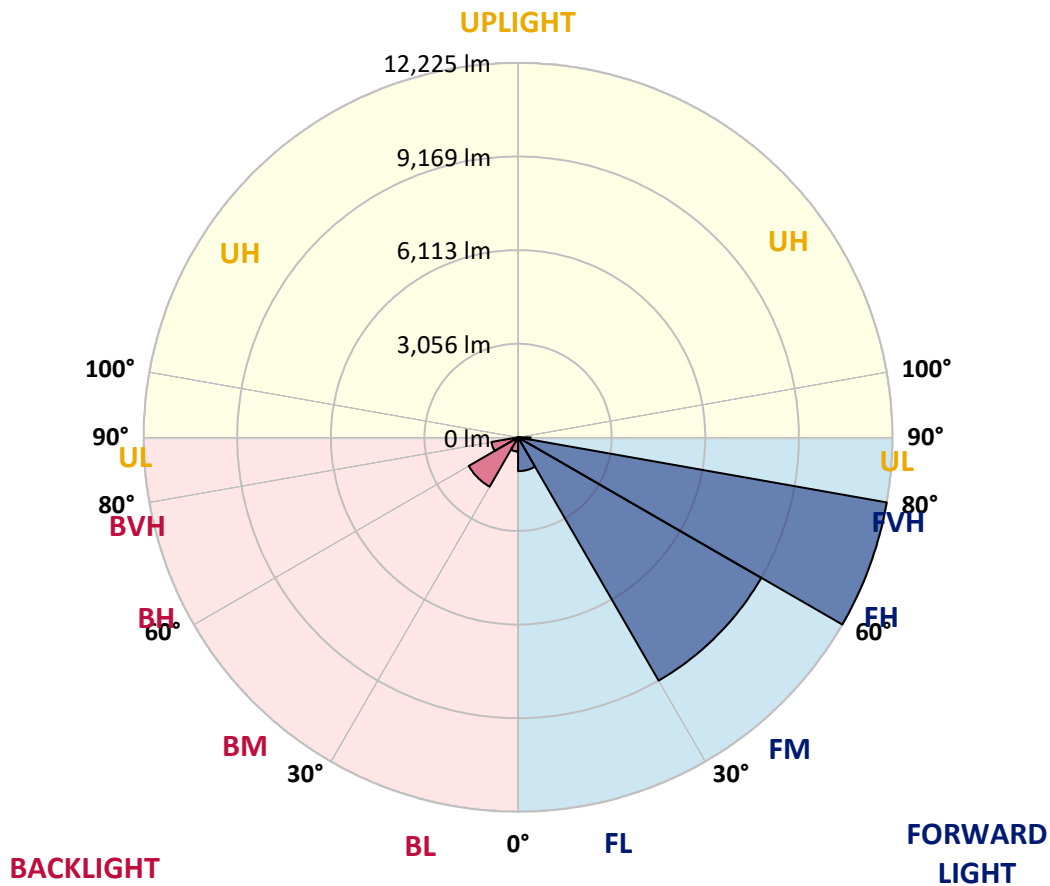
CATALOG NUMBER: GWS-SA5F-760-U-SLR-W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1104.0	4.2			
FM (30°-60°)	9172.4	35.1			
FH (60°-80°)	12225.3	46.8			G5
FVH (80°-90°)	406.6	1.6			G3/500
BL (0°-30°)	462.6	1.8	B1/500		
BM (30°-60°)	1859.6	7.1	B2/2500		
BH (60°-80°)	883.6	3.4	B2/1000		G2/1000
BVH (80°-90°)	19.0	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-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1358.4	1358.4	1358.4	1358.4	1358.4	1358.4	1358.4	1358.4	1358.4	1358.4	1358.4
2.5°	1385.5	1391.6	1397.6	1418.7	1433.8	1445.9	1448.9	1439.9	1418.7	1397.6	1367.4
5°	1343.3	1349.3	1370.4	1427.8	1485.2	1530.4	1545.5	1536.5	1485.2	1418.7	1349.3
7.5°	1340.3	1352.3	1403.7	1524.4	1648.2	1741.7	1765.9	1744.8	1648.2	1515.3	1373.5
10°	1448.9	1470.1	1545.5	1762.9	1989.3	2155.3	2221.7	2131.1	1977.2	1735.7	1503.3
12.5°	1732.7	1768.9	1913.8	2230.8	2580.9	2801.3	2891.8	2780.1	2538.7	2188.5	1820.2
15°	2179.4	2233.8	2451.1	2925.0	3338.6	3534.8	3565.0	3501.6	3220.9	2834.5	2339.4
17.5°	2810.3	2888.8	3226.9	3709.9	4008.7	4078.1	4069.1	4002.7	3797.4	3531.8	3063.9
20°	3565.0	3658.6	3990.6	4389.1	4419.2	4337.7	4292.5	4253.2	4183.8	4138.5	3773.3
22.5°	4325.7	4440.4	4787.5	4887.1	4615.5	4380.0	4268.3	4298.5	4401.1	4624.5	4476.6
25°	5083.3	5192.0	5518.0	5249.4	4706.0	4313.6	4171.7	4244.2	4488.7	4971.6	5161.8
27.5°	5967.8	6049.3	6242.5	5496.9	4721.1	4259.3	4120.4	4232.1	4530.9	5189.0	5913.5
30°	6888.5	6936.8	6843.2	5563.3	4669.8	4177.8	4069.1	4232.1	4603.4	5333.9	6477.9
32.5°	7564.6	7573.7	7268.8	5569.3	4642.6	4111.3	4020.8	4214.0	4672.8	5454.6	7024.3
35°	8261.9	8216.7	7676.3	5659.9	4715.1	4135.5	4057.0	4265.3	4781.5	5596.5	7504.3
37.5°	8968.3	8886.8	8132.1	5807.8	4902.2	4398.1	4349.8	4527.9	4956.6	5792.7	8032.5
40°	9692.8	9581.1	8606.1	6031.2	5318.8	5291.6	5457.6	5436.5	5436.5	6043.3	8575.9
42.5°	10577.2	10447.4	9306.4	6662.1	6290.8	6897.5	7350.3	7069.6	6550.4	6619.8	9282.2
45°	11745.4	11633.7	10519.9	7869.5	7815.2	9209.8	9819.5	9264.1	7972.1	7951.0	10462.5
47.5°	13613.9	13592.8	12454.8	9270.1	9680.7	12152.9	13330.2	12261.6	9593.1	9360.7	12696.3
50°	16240.1	16176.7	14866.7	10912.3	11899.4	15799.4	17900.4	16119.4	11552.2	11005.8	15687.7
52.5°	19198.4	19264.8	18244.5	12705.3	14256.9	19856.4	22781.4	20538.6	13680.3	13097.7	19451.9
55°	21984.5	22364.9	22096.2	14803.3	16560.1	24336.0	28142.5	25386.5	16315.6	15835.6	23671.9
57.5°	24164.0	25235.6	27119.2	17852.1	19267.8	29576.3	34128.4	30641.9	19391.5	20282.0	29416.3
60°	24284.7	25703.5	30077.4	24230.4	22751.3	34071.0	40105.2	35776.6	24227.4	27831.6	33917.1
62.5°	22464.5	23985.9	28151.6	27128.2	26545.7	37895.6	43172.2	39519.6	28984.7	32253.8	32582.9
65°	20381.7	21918.1	26002.3	23841.0	26104.9	37732.6	42393.3	39607.2	29416.3	29247.3	30195.1
67.5°	17233.2	18612.7	22310.5	21103.1	24061.3	35912.4	38795.2	37110.8	27101.1	27354.6	27777.2
70°	12578.5	13906.7	17338.9	17399.3	21012.5	32631.2	33334.5	33102.1	24957.9	25226.5	24019.1
72.5°	9086.0	10205.9	13167.2	14269.0	16774.4	27363.7	26877.7	27774.2	21414.0	22467.5	19291.9
75°	6532.3	7371.4	9659.5	12412.5	13297.0	20321.3	19240.6	21510.6	17181.9	19346.3	14504.4
77.5°	2650.3	2946.2	3800.4	8361.5	8738.9	13671.3	11778.6	15624.3	12249.5	12711.4	7030.3
80°	108.7	120.7	157.0	4316.6	5991.9	7691.4	6302.9	8352.5	8089.9	5119.6	1660.2
82.5°	12.1	12.1	27.2	1243.7	2623.2	4244.2	2970.3	4811.7	4096.3	2170.4	754.7
85°	3.0	3.0	6.0	141.9	615.8	679.2	401.5	1476.1	1904.7	887.5	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.1	27.2	30.2	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°	1358.4	1358.4	1358.4	1358.4	1358.4	1358.4	1358.4	1358.4	1358.4	1358.4	1358.4
2.5°	1367.4	1352.3	1334.2	1316.1	1307.1	1282.9	1273.9	1267.8	1261.8	1264.8	1264.8
5°	1322.2	1288.9	1249.7	1210.5	1189.3	1165.2	1153.1	1147.1	1150.1	1162.2	1162.2
7.5°	1316.1	1252.7	1168.2	1116.9	1092.7	1074.6	1062.6	1056.5	1059.5	1074.6	1080.7
10°	1415.7	1304.0	1153.1	1065.6	1038.4	1020.3	1008.2	999.2	993.1	1005.2	1008.2
12.5°	1630.0	1476.1	1225.6	1059.5	1011.2	987.1	978.0	959.9	950.9	956.9	959.9
15°	2073.8	1808.1	1370.4	1083.7	987.1	959.9	944.8	929.7	914.6	911.6	914.6
17.5°	2653.4	2273.0	1590.8	1141.0	969.0	935.8	914.6	893.5	872.4	869.4	866.3
20°	3371.8	2843.5	1898.7	1231.6	953.9	914.6	884.5	854.3	827.1	818.0	818.0
22.5°	4026.8	3531.8	2294.1	1343.3	932.8	884.5	848.2	812.0	781.8	766.7	763.7
25°	4826.8	4262.3	2768.1	1473.1	902.6	845.2	806.0	769.7	739.6	721.4	715.4
27.5°	5632.7	5032.0	3305.4	1642.1	866.3	806.0	769.7	736.5	703.3	682.2	676.2
30°	6414.5	5862.1	3909.1	1853.4	839.2	766.7	736.5	703.3	673.1	639.9	630.9
32.5°	7253.7	6710.4	4585.3	2088.9	818.0	739.6	706.4	676.2	636.9	606.7	591.6
35°	8062.7	7585.8	5330.9	2318.3	796.9	715.4	679.2	649.0	606.7	573.5	552.4
37.5°	8877.7	8476.3	6109.7	2457.1	766.7	682.2	649.0	624.9	576.6	537.3	513.2
40°	9741.1	9396.9	6951.9	2399.8	739.6	646.0	627.9	600.7	546.4	501.1	470.9
42.5°	10688.9	10275.3	7809.1	2179.4	715.4	615.8	597.7	570.5	519.2	464.9	425.6
45°	11881.2	11238.3	8512.5	1847.4	727.5	585.6	549.4	543.3	495.1	425.6	377.3
47.5°	13930.9	12717.4	9058.8	1633.1	809.0	552.4	510.1	525.2	473.9	386.4	332.0
50°	17067.2	15168.5	9569.0	1618.0	932.8	537.3	473.9	513.2	452.8	347.1	292.8
52.5°	20055.6	17658.9	9895.0	1750.8	1041.4	576.6	437.7	498.1	437.7	320.0	265.6
55°	22914.3	19095.7	9312.4	1847.4	1144.1	694.3	410.5	473.9	419.6	304.9	256.6
57.5°	25996.3	19735.7	7332.2	2043.6	1216.5	793.9	416.6	437.7	395.4	295.8	253.6
60°	26916.9	18917.6	4425.3	2300.2	1177.3	824.1	461.8	389.4	362.2	277.7	244.5
62.5°	25486.1	16976.7	2611.1	2094.9	1144.1	778.8	528.3	359.2	329.0	253.6	226.4
65°	23345.9	14341.4	1702.5	1768.9	1213.5	694.3	561.5	344.1	298.8	229.4	199.2
67.5°	20900.9	11552.2	1192.4	1044.4	1119.9	624.9	473.9	341.1	268.7	193.2	163.0
70°	17604.5	8651.3	839.2	691.3	932.8	555.4	368.3	332.0	235.5	157.0	126.8
72.5°	13601.9	5415.4	624.9	446.8	664.1	452.8	292.8	280.7	190.2	129.8	96.6
75°	10030.8	3088.0	440.7	323.0	437.7	344.1	217.3	199.2	163.0	123.8	87.5
77.5°	5237.3	1545.5	274.7	247.5	250.5	214.3	157.0	144.9	150.9	123.8	81.5
80°	1005.2	307.9	166.0	181.1	135.8	135.8	114.7	120.7	132.8	99.6	69.4
82.5°	419.6	66.4	90.6	102.6	84.5	93.6	93.6	96.6	93.6	72.4	51.3
85°	0.0	0.0	39.2	42.3	57.4	57.4	48.3	48.3	48.3	42.3	30.2
87.5°	0.0	0.0	0.0	0.0	3.0	9.1	18.1	21.1	24.1	18.1	12.1
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°	1358.4	1358.4	1358.4	1358.4	1358.4	1358.4	1358.4	1358.4	1358.4	1358.4	1358.4
2.5°	1261.8	1255.7	1264.8	1270.8	1276.9	1276.9	1270.8	1264.8	1255.7	1264.8	1255.7
5°	1165.2	1174.2	1189.3	1195.4	1201.4	1189.3	1183.3	1165.2	1150.1	1153.1	1147.1
7.5°	1089.7	1098.8	1116.9	1129.0	1129.0	1122.9	1104.8	1086.7	1062.6	1062.6	1059.5
10°	1020.3	1032.4	1053.5	1068.6	1074.6	1068.6	1050.5	1026.3	1005.2	1005.2	996.1
12.5°	962.9	978.0	1002.2	1023.3	1029.3	1023.3	1005.2	981.0	956.9	956.9	950.9
15°	914.6	932.8	959.9	984.1	993.1	984.1	962.9	932.8	908.6	911.6	902.6
17.5°	869.4	884.5	920.7	947.8	956.9	947.8	920.7	881.4	857.3	863.3	857.3
20°	818.0	836.2	872.4	902.6	911.6	902.6	872.4	830.1	806.0	806.0	809.0
22.5°	763.7	781.8	818.0	839.2	851.2	842.2	812.0	772.8	748.6	748.6	751.6
25°	715.4	724.5	751.6	772.8	775.8	766.7	742.6	712.4	694.3	703.3	706.4
27.5°	670.1	670.1	682.2	694.3	691.3	682.2	673.1	649.0	646.0	655.0	664.1
30°	621.8	606.7	600.7	591.6	588.6	585.6	594.7	594.7	600.7	612.8	621.8
32.5°	579.6	549.4	522.2	495.1	480.0	492.0	516.2	537.3	558.4	576.6	585.6
35°	531.3	483.0	437.7	401.5	377.3	395.4	434.7	473.9	510.1	534.3	549.4
37.5°	483.0	413.5	359.2	313.9	295.8	310.9	353.2	407.5	461.8	492.0	513.2
40°	431.7	344.1	280.7	244.5	226.4	241.5	283.7	338.1	410.5	449.8	476.9
42.5°	380.3	283.7	226.4	190.2	181.1	190.2	223.4	277.7	356.2	404.5	440.7
45°	329.0	235.5	181.1	153.9	144.9	153.9	181.1	226.4	304.9	359.2	401.5
47.5°	283.7	199.2	150.9	126.8	120.7	129.8	150.9	190.2	256.6	310.9	359.2
50°	247.5	175.1	129.8	108.7	102.6	111.7	129.8	160.0	217.3	265.6	317.0
52.5°	223.4	163.0	114.7	93.6	90.6	96.6	111.7	135.8	184.1	226.4	274.7
55°	217.3	163.0	105.7	84.5	81.5	87.5	99.6	117.7	160.0	196.2	238.5
57.5°	223.4	175.1	99.6	72.4	69.4	75.5	87.5	102.6	138.9	169.0	208.3
60°	223.4	178.1	87.5	57.4	54.3	60.4	72.4	90.6	123.8	147.9	181.1
62.5°	202.2	163.0	72.4	45.3	39.2	45.3	60.4	75.5	108.7	132.8	160.0
65°	175.1	138.9	60.4	33.2	27.2	33.2	48.3	63.4	93.6	114.7	144.9
67.5°	141.9	105.7	45.3	24.1	18.1	24.1	36.2	51.3	78.5	99.6	129.8
70°	105.7	75.5	36.2	21.1	18.1	21.1	33.2	48.3	69.4	90.6	120.7
72.5°	78.5	51.3	30.2	21.1	15.1	21.1	30.2	45.3	66.4	87.5	114.7
75°	66.4	42.3	27.2	18.1	15.1	18.1	27.2	42.3	60.4	81.5	108.7
77.5°	63.4	39.2	24.1	15.1	12.1	15.1	24.1	36.2	54.3	75.5	105.7
80°	54.3	33.2	21.1	12.1	9.1	12.1	21.1	30.2	42.3	57.4	81.5
82.5°	42.3	27.2	15.1	6.0	3.0	6.0	15.1	18.1	27.2	33.2	48.3
85°	27.2	15.1	6.0	0.0	0.0	0.0	6.0	12.1	12.1	15.1	24.1
87.5°	12.1	3.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.0	9.1
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: P641345  
 CATALOG NUMBER: GWS-SA5F-760-U-SLR-W-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1358.4	1358.4	1358.4	1358.4	1358.4	1358.4	1358.4	1358.4	1358.4	1358.4
2.5°	1273.9	1276.9	1282.9	1292.0	1313.1	1331.2	1349.3	1373.5	1385.5	1385.5
5°	1153.1	1156.1	1159.1	1171.2	1201.4	1225.6	1264.8	1313.1	1337.2	1343.3
7.5°	1059.5	1065.6	1071.6	1080.7	1110.8	1144.1	1195.4	1285.9	1331.2	1340.3
10°	1005.2	1014.3	1026.3	1044.4	1071.6	1107.8	1195.4	1358.4	1433.8	1448.9
12.5°	962.9	978.0	990.1	1011.2	1044.4	1101.8	1276.9	1563.6	1696.5	1732.7
15°	920.7	938.8	956.9	978.0	1014.3	1122.9	1433.8	1931.9	2152.3	2179.4
17.5°	878.4	899.5	923.7	947.8	993.1	1174.2	1681.4	2442.1	2750.0	2810.3
20°	830.1	857.3	890.5	920.7	972.0	1255.7	2025.5	3048.8	3435.2	3565.0
22.5°	778.8	812.0	851.2	890.5	947.8	1355.4	2442.1	3700.8	4241.1	4325.7
25°	736.5	769.7	806.0	845.2	908.6	1476.1	2946.2	4509.8	5001.8	5083.3
27.5°	697.3	730.5	763.7	799.9	869.4	1633.1	3552.9	5370.1	5883.3	5967.8
30°	655.0	694.3	727.5	763.7	833.1	1826.3	4253.2	6324.0	6810.0	6888.5
32.5°	618.8	658.1	691.3	727.5	806.0	2037.6	4989.8	7169.2	7564.6	7564.6
35°	588.6	630.9	655.0	703.3	784.8	2173.4	5687.1	7975.2	8274.0	8261.9
37.5°	555.4	606.7	624.9	658.1	757.7	2188.5	6342.1	8826.4	9046.8	8968.3
40°	522.2	576.6	603.7	621.8	727.5	2064.7	7060.5	9608.2	9795.4	9692.8
42.5°	492.0	534.3	573.5	594.7	709.4	1847.4	7637.1	10444.4	10667.8	10577.2
45°	461.8	498.1	522.2	561.5	721.4	1696.5	8132.1	11419.4	11811.8	11745.4
47.5°	431.7	461.8	476.9	537.3	803.0	1627.0	8434.0	12928.7	13668.3	13613.9
50°	398.5	434.7	434.7	531.3	923.7	1651.2	8696.6	15114.2	16258.2	16240.1
52.5°	365.3	404.5	398.5	576.6	1017.3	1762.9	8995.5	17043.1	19032.3	19198.4
55°	332.0	368.3	374.3	667.1	1071.6	1859.5	7839.3	17855.1	21401.9	21984.5
57.5°	295.8	317.0	389.4	736.5	1053.5	2140.2	5370.1	18003.0	22914.3	24164.0
60°	256.6	274.7	440.7	721.4	996.1	1977.2	3380.8	16674.8	22699.9	24284.7
62.5°	223.4	253.6	464.9	636.9	1014.3	1714.6	2155.3	14211.6	20656.3	22464.5
65°	196.2	244.5	422.6	576.6	1026.3	1162.2	1455.0	11561.3	18661.0	20381.7
67.5°	175.1	271.7	347.1	513.2	881.4	818.0	999.2	8983.4	15690.7	17233.2
70°	160.0	277.7	283.7	440.7	682.2	525.2	658.1	6046.3	10815.7	12578.5
72.5°	144.9	205.3	214.3	353.2	440.7	320.0	425.6	3459.3	7884.6	9086.0
75°	138.9	138.9	147.9	229.4	244.5	232.4	274.7	2064.7	5653.9	6532.3
77.5°	129.8	105.7	93.6	147.9	132.8	166.0	163.0	917.7	2451.1	2650.3
80°	102.6	75.5	63.4	93.6	90.6	111.7	96.6	75.5	111.7	108.7
82.5°	63.4	48.3	45.3	57.4	51.3	57.4	45.3	12.1	12.1	12.1
85°	30.2	27.2	24.1	24.1	27.2	24.1	18.1	6.0	3.0	3.0
87.5°	15.1	15.1	12.1	9.1	12.1	12.1	9.1	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)