

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: P641231

Luminaire Tested: GWS-SA5F-740-U-SLL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641231
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-40)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-740-U-SLL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25271.3 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G5

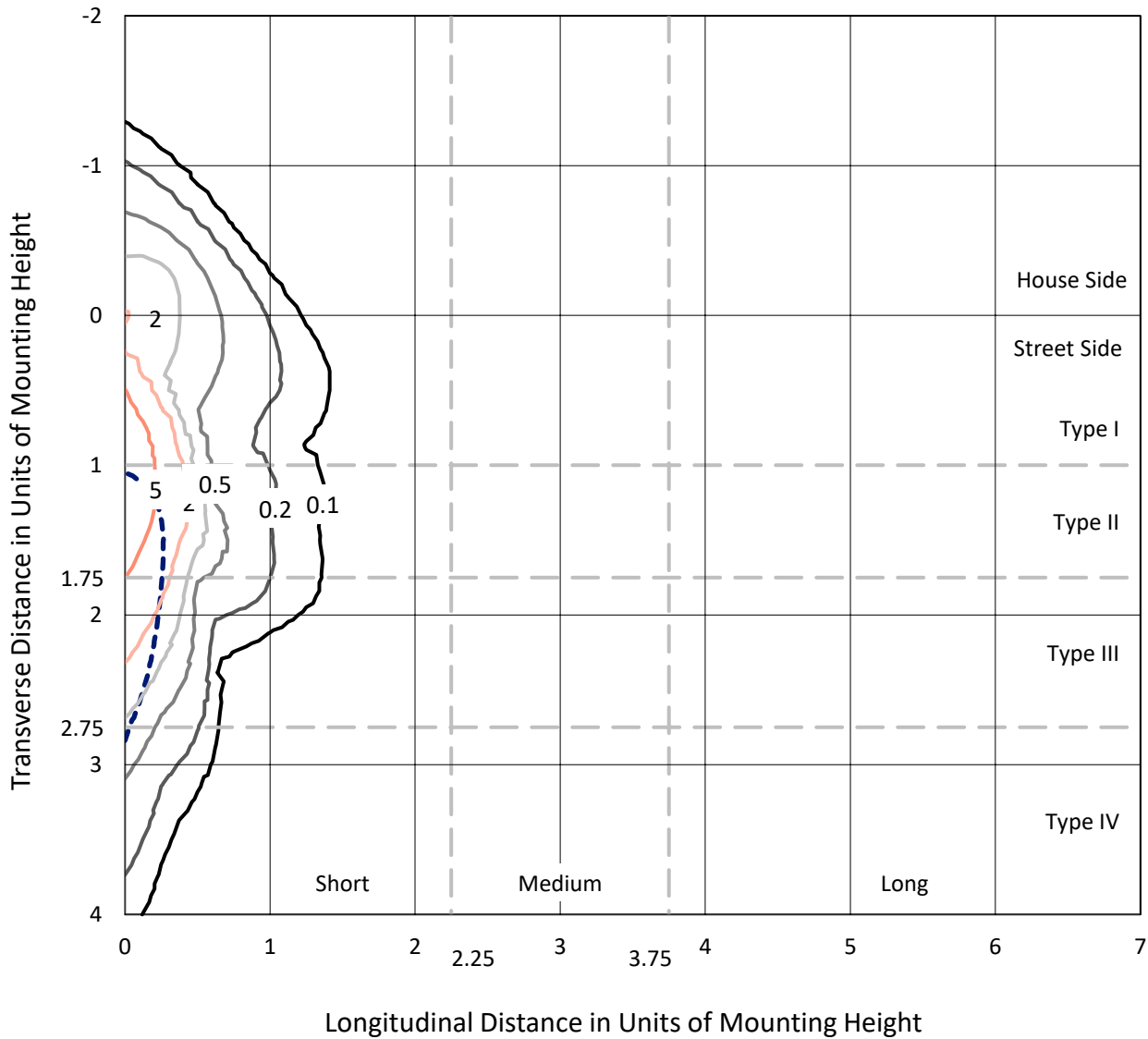
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P641231
 CATALOG NUMBER: GWS-SA5F-740-U-SLL-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

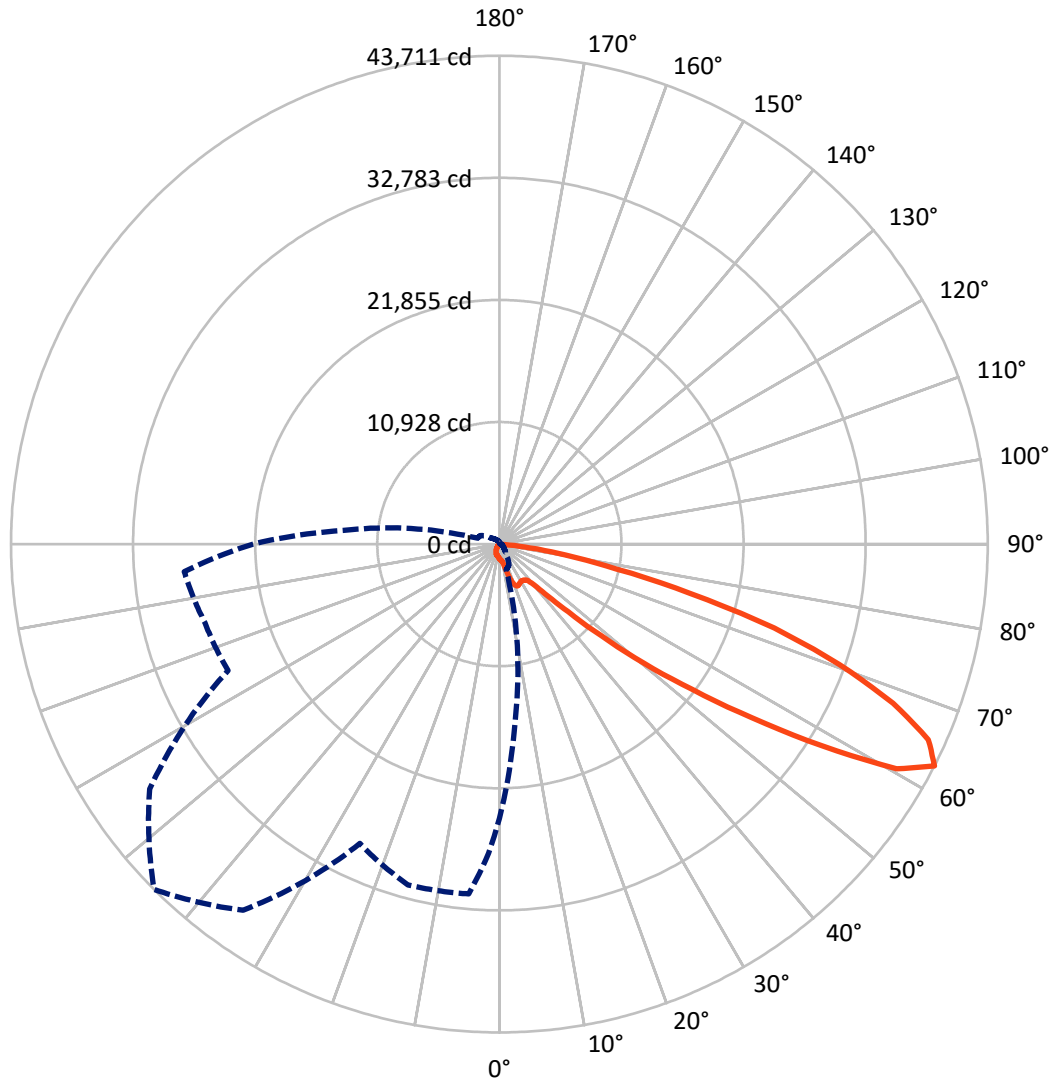
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type III - Short - N/A

REPORT NUMBER: P641231
CATALOG NUMBER: GWS-SA5F-740-U-SLL-W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P641231
 CATALOG NUMBER: GWS-SA5F-740-U-SLL-W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2936.2	0.0	2936.2
	% Fixture	11.6	0.0	11.6
Street Side	Lumens	22335.1	0.0	22335.1
	% Fixture	88.4	0.0	88.4
Total	Lumens	25271.3	0.0	25271.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.2	0.4
10°-20°	387.9	1.5
20°-30°	876.3	3.5
30°-40°	1509.7	6.0
40°-50°	2847.9	11.3
50°-60°	6358.5	25.2
60°-70°	8504.4	33.7
70°-80°	4264.7	16.9
80°-90°	408.8	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°	25271.3	100.0
0°-180°	25271.3	100.0

Coefficient of Utilization



REPORT NUMBER: P641231

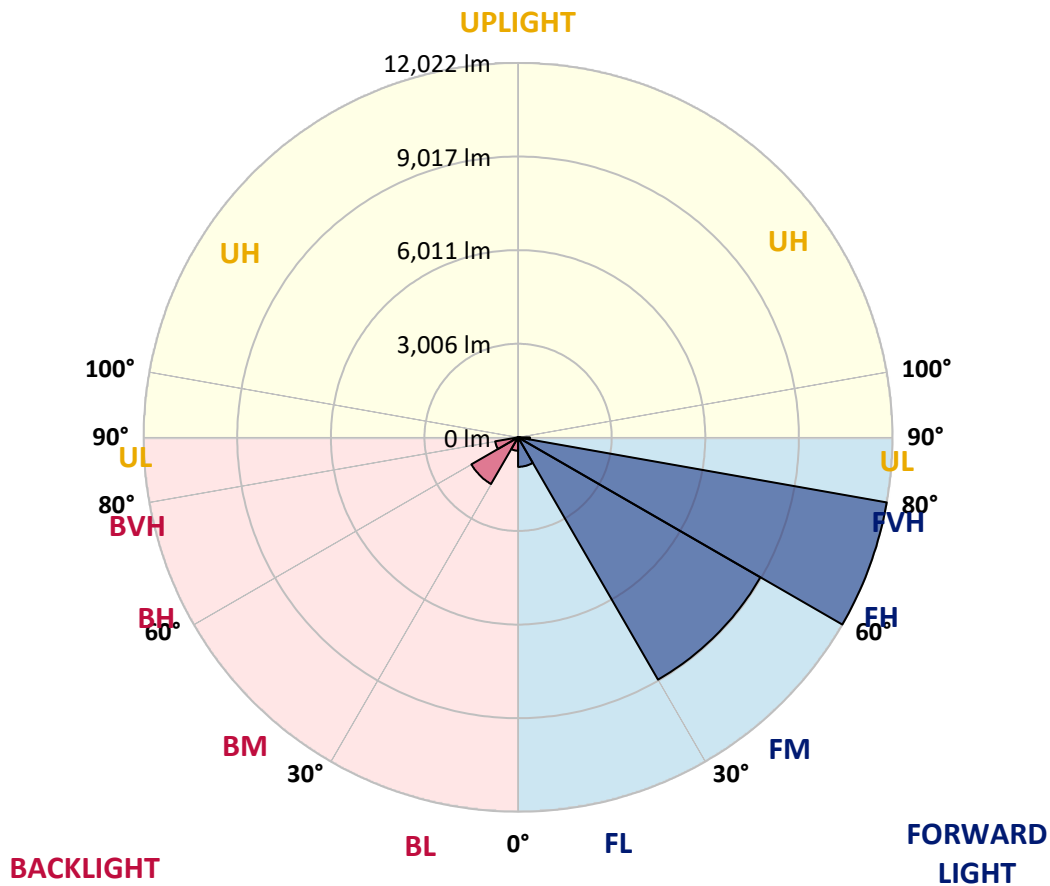
CATALOG NUMBER: GWS-SA5F-740-U-SLL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	946.4	3.7			
FM (30°-60°)	8984.7	35.6			
FH (60°-80°)	12022.4	47.6			G5
FVH (80°-90°)	381.6	1.5			G3/500
BL (0°-30°)	431.0	1.7	B1/500		
BM (30°-60°)	1731.4	6.9	B2/2500		
BH (60°-80°)	746.7	3.0	B2/1000		G2/1000
BVH (80°-90°)	27.2	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 III Short





REPORT NUMBER: P641231

CATALOG NUMBER: GWS-SA5F-740-U-SLL-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1310.6	1310.6	1310.6	1310.6	1310.6	1310.6	1310.6	1310.6	1310.6	1310.6	1310.6
2.5°	1295.6	1292.7	1286.7	1268.7	1253.8	1244.8	1226.8	1226.8	1223.8	1217.8	1205.9
5°	1253.8	1241.8	1229.8	1196.9	1161.0	1140.0	1116.1	1113.1	1113.1	1107.1	1104.1
7.5°	1187.9	1176.0	1161.0	1107.1	1074.2	1053.3	1032.3	1029.3	1020.4	1020.4	1020.4
10°	1152.0	1134.1	1110.1	1050.3	1017.4	999.4	984.5	975.5	969.5	960.5	957.5
12.5°	1229.8	1196.9	1146.0	1038.3	993.4	969.5	951.5	945.6	927.6	915.6	906.7
15°	1472.2	1391.4	1289.7	1065.2	984.5	948.5	924.6	912.6	897.7	876.7	861.8
17.5°	1870.2	1753.5	1582.9	1152.0	975.5	930.6	900.7	879.7	858.8	834.8	816.9
20°	2420.7	2247.2	2043.7	1310.6	975.5	909.6	873.7	846.8	816.9	790.0	769.0
22.5°	3120.9	2947.4	2600.3	1579.9	987.4	882.7	840.8	804.9	769.0	745.1	721.1
25°	3904.9	3659.5	3336.4	1906.1	1020.4	846.8	801.9	766.0	733.1	703.2	676.2
27.5°	4778.6	4512.3	4081.4	2369.9	1092.2	810.9	760.0	727.1	697.2	667.3	631.4
30°	5583.5	5425.0	4985.1	2926.4	1208.9	787.0	727.1	697.2	667.3	628.4	595.5
32.5°	6550.0	6268.8	5906.7	3560.8	1364.5	763.0	700.2	658.3	634.4	598.5	562.5
35°	7522.5	7283.1	6807.4	4341.8	1538.0	739.1	667.3	628.4	607.4	565.5	526.6
37.5°	8524.9	8471.1	8001.3	5206.5	1708.6	712.2	628.4	604.4	583.5	535.6	490.7
40°	9512.4	9413.6	8979.7	6194.0	1813.3	682.2	595.5	580.5	556.6	502.7	451.8
42.5°	10457.9	10383.1	9961.2	7139.5	1798.3	655.3	562.5	544.6	526.6	472.8	409.9
45°	11618.9	11496.2	10963.6	7839.7	1645.7	685.2	529.6	499.7	496.7	445.8	368.0
47.5°	13791.3	13387.3	12483.7	8378.3	1493.1	763.0	493.7	457.8	478.8	418.9	326.2
50°	16834.4	16358.6	15051.0	8797.2	1490.1	864.8	487.7	418.9	463.8	398.0	290.2
52.5°	19892.5	19054.7	17465.8	9021.6	1600.9	939.6	541.6	380.0	445.8	377.0	263.3
55°	22821.9	21083.4	18477.1	8279.6	1687.6	1020.4	640.3	359.1	412.9	353.1	248.4
57.5°	25613.7	22714.2	18917.0	6550.0	1977.9	1053.3	700.2	368.0	365.1	323.2	236.4
60°	25996.7	22636.4	18028.3	3809.1	2181.4	996.4	676.2	409.9	320.2	287.3	215.4
62.5°	24548.4	21131.3	16002.6	2375.8	2025.8	975.5	601.4	466.8	290.2	254.3	188.5
65°	22349.1	18770.4	13342.4	1532.0	1535.0	1083.2	526.6	457.8	272.3	224.4	161.6
67.5°	18911.0	15709.3	10511.8	1026.3	867.8	924.6	460.8	314.2	266.3	191.5	125.7
70°	13803.3	11182.0	6843.3	685.2	517.7	739.1	386.0	224.4	251.3	158.6	89.8
72.5°	10089.9	7513.5	3821.1	448.8	293.2	430.9	284.3	161.6	194.5	116.7	62.8
75°	7262.2	5170.6	2181.4	287.3	194.5	236.4	185.5	110.7	125.7	92.8	56.9
77.5°	3494.9	2519.5	990.4	158.6	131.7	119.7	98.7	68.8	77.8	83.8	50.9
80°	131.7	98.7	74.8	77.8	83.8	53.9	44.9	35.9	44.9	56.9	26.9
82.5°	0.0	0.0	0.0	9.0	12.0	15.0	18.0	15.0	18.0	20.9	3.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P641231

CATALOG NUMBER: GWS-SA5F-740-U-SLL-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1310.6	1310.6	1310.6	1310.6	1310.6	1310.6	1310.6	1310.6	1310.6	1310.6	1310.6
2.5°	1214.9	1208.9	1214.9	1220.8	1226.8	1232.8	1223.8	1229.8	1235.8	1220.8	1226.8
5°	1119.1	1116.1	1134.1	1143.0	1155.0	1161.0	1155.0	1155.0	1152.0	1134.1	1134.1
7.5°	1035.3	1038.3	1053.3	1074.2	1089.2	1098.2	1092.2	1089.2	1080.2	1053.3	1053.3
10°	972.5	972.5	996.4	1014.4	1035.3	1044.3	1038.3	1029.3	1020.4	993.4	990.4
12.5°	921.6	921.6	939.6	969.5	993.4	1005.4	1002.4	990.4	975.5	948.5	945.6
15°	873.7	870.7	897.7	924.6	957.5	972.5	966.5	957.5	930.6	906.7	900.7
17.5°	825.9	822.9	846.8	882.7	918.6	939.6	936.6	915.6	891.7	861.8	855.8
20°	778.0	772.0	801.9	837.8	873.7	894.7	888.7	870.7	840.8	810.9	804.9
22.5°	730.1	727.1	748.1	778.0	810.9	828.9	825.9	810.9	781.0	754.0	754.0
25°	676.2	676.2	691.2	712.2	736.1	745.1	748.1	742.1	724.1	709.2	709.2
27.5°	631.4	622.4	628.4	634.4	646.3	661.3	661.3	667.3	670.3	664.3	667.3
30°	595.5	580.5	571.5	559.6	553.6	559.6	565.5	586.5	607.4	619.4	625.4
32.5°	553.6	535.6	511.7	478.8	457.8	451.8	469.8	508.7	547.6	574.5	589.5
35°	511.7	487.7	442.9	395.0	368.0	359.1	380.0	424.9	481.8	529.6	550.6
37.5°	469.8	436.9	374.0	317.2	287.3	281.3	302.2	350.1	415.9	481.8	508.7
40°	421.9	383.0	308.2	248.4	224.4	218.4	236.4	284.3	353.1	427.9	469.8
42.5°	374.0	326.2	248.4	197.5	173.6	173.6	197.5	233.4	296.2	377.0	427.9
45°	326.2	275.3	203.5	158.6	143.6	146.6	161.6	197.5	248.4	332.1	380.0
47.5°	281.3	236.4	167.6	131.7	119.7	122.7	140.6	170.6	212.4	287.3	338.1
50°	242.4	200.5	146.6	110.7	101.7	107.7	125.7	152.6	188.5	254.3	296.2
52.5°	218.4	179.5	134.7	95.8	89.8	95.8	113.7	137.6	170.6	224.4	266.3
55°	206.5	176.5	134.7	86.8	77.8	83.8	101.7	125.7	152.6	203.5	239.4
57.5°	203.5	182.5	143.6	77.8	65.8	71.8	89.8	113.7	140.6	185.5	215.4
60°	191.5	173.6	140.6	62.8	50.9	59.8	74.8	98.7	128.7	173.6	200.5
62.5°	167.6	152.6	122.7	50.9	38.9	44.9	62.8	86.8	116.7	158.6	188.5
65°	137.6	122.7	95.8	32.9	23.9	29.9	47.9	74.8	101.7	143.6	170.6
67.5°	101.7	86.8	65.8	20.9	12.0	20.9	38.9	62.8	92.8	128.7	155.6
70°	62.8	50.9	35.9	12.0	9.0	18.0	35.9	59.8	83.8	119.7	146.6
72.5°	35.9	23.9	15.0	6.0	9.0	18.0	35.9	59.8	80.8	113.7	137.6
75°	26.9	15.0	6.0	3.0	6.0	15.0	32.9	53.9	77.8	107.7	131.7
77.5°	18.0	9.0	3.0	0.0	3.0	12.0	29.9	50.9	71.8	101.7	125.7
80°	3.0	0.0	0.0	0.0	0.0	9.0	26.9	44.9	65.8	89.8	110.7
82.5°	0.0	0.0	0.0	0.0	0.0	3.0	20.9	38.9	56.9	74.8	89.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	12.0	29.9	44.9	56.9	62.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.0	29.9	35.9	41.9
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: P641231

CATALOG NUMBER: GWS-SA5F-740-U-SLL-W-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1310.6	1310.6	1310.6	1310.6	1310.6	1310.6	1310.6	1310.6	1310.6	1310.6	1310.6
2.5°	1223.8	1241.8	1241.8	1253.8	1268.7	1295.6	1310.6	1331.6	1346.5	1361.5	1367.5
5°	1131.1	1134.1	1137.1	1143.0	1161.0	1190.9	1217.8	1250.8	1289.7	1319.6	1337.5
7.5°	1053.3	1053.3	1053.3	1062.2	1080.2	1101.1	1128.1	1173.0	1217.8	1253.8	1283.7
10°	987.4	996.4	999.4	1014.4	1035.3	1062.2	1092.2	1131.1	1181.9	1229.8	1283.7
12.5°	945.6	954.5	969.5	984.5	1005.4	1035.3	1068.2	1119.1	1223.8	1322.6	1436.3
15°	906.7	918.6	936.6	957.5	981.5	1014.4	1050.3	1155.0	1400.4	1585.9	1765.4
17.5°	864.8	882.7	906.7	927.6	957.5	993.4	1038.3	1241.8	1723.5	2031.7	2336.9
20°	810.9	834.8	861.8	894.7	930.6	972.5	1038.3	1421.3	2190.3	2633.2	3037.1
22.5°	760.0	784.0	816.9	858.8	900.7	942.6	1053.3	1693.6	2791.8	3351.3	3863.0
25°	718.1	748.1	781.0	816.9	864.8	912.6	1089.2	2076.6	3515.9	4237.0	4599.1
27.5°	679.2	715.1	748.1	778.0	819.9	873.7	1170.0	2588.3	4371.7	5104.8	5389.0
30°	640.3	682.2	715.1	745.1	787.0	843.8	1292.7	3240.6	5323.2	6035.4	6065.3
32.5°	607.4	646.3	685.2	715.1	754.0	819.9	1463.2	4003.6	6298.7	6986.9	6705.6
35°	571.5	616.4	652.3	685.2	727.1	798.9	1660.7	4826.5	7283.1	7860.6	7343.0
37.5°	535.6	586.5	631.4	655.3	697.2	778.0	1804.3	5685.3	8288.5	8713.4	7902.5
40°	502.7	559.6	610.4	634.4	655.3	751.1	1825.3	6565.0	9308.9	9554.3	8429.2
42.5°	466.8	529.6	574.5	607.4	625.4	733.1	1699.6	7307.1	10164.7	10392.1	9117.4
45°	427.9	502.7	538.6	562.5	598.5	745.1	1538.0	7881.6	11143.1	11535.1	10251.5
47.5°	389.0	472.8	502.7	520.7	568.5	816.9	1478.2	8264.6	12756.0	13569.9	12163.5
50°	353.1	445.8	478.8	475.8	562.5	909.6	1544.0	8554.8	15179.7	16137.2	14784.7
52.5°	314.2	415.9	454.8	442.9	607.4	981.5	1675.7	8785.2	17043.9	19147.4	18306.6
55°	281.3	383.0	418.9	415.9	691.2	1035.3	1777.4	7570.4	17815.9	21945.2	22274.3
57.5°	257.3	347.1	377.0	427.9	745.1	1035.3	2055.7	5374.1	17830.8	24003.8	27540.7
60°	236.4	314.2	335.1	469.8	724.1	981.5	2034.7	3291.5	16433.4	23863.2	30341.4
62.5°	218.4	284.3	311.2	481.8	640.3	972.5	1837.2	2040.7	14015.7	22046.9	28309.7
65°	203.5	260.3	299.2	442.9	580.5	1041.3	1238.8	1466.2	11367.6	19976.3	25978.7
67.5°	188.5	239.4	317.2	362.1	526.6	930.6	894.7	1041.3	8922.9	17705.1	23839.3
70°	176.5	227.4	335.1	296.2	460.8	727.1	634.4	790.0	6831.3	14772.7	20826.1
72.5°	167.6	212.4	281.3	233.4	374.0	562.5	442.9	574.5	4464.4	11532.1	16978.0
75°	158.6	194.5	206.5	188.5	278.3	368.0	335.1	386.0	2660.1	8429.2	12881.6
77.5°	155.6	182.5	167.6	152.6	188.5	218.4	254.3	260.3	1298.6	4216.1	6750.5
80°	137.6	164.6	143.6	125.7	128.7	143.6	188.5	173.6	296.2	1071.2	1801.3
82.5°	107.7	128.7	119.7	104.7	104.7	104.7	125.7	116.7	95.8	481.8	813.9
85°	74.8	89.8	89.8	83.8	80.8	80.8	77.8	74.8	26.9	29.9	44.9
87.5°	50.9	62.8	65.8	62.8	53.9	47.9	41.9	35.9	12.0	0.0	6.0
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: P641231

CATALOG NUMBER: GWS-SA5F-740-U-SLL-W-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	1310.6	1310.6	1310.6	1310.6	1310.6	1310.6	1310.6	1310.6	1310.6	1310.6
2.5°	1388.4	1397.4	1397.4	1385.4	1376.4	1352.5	1328.6	1304.6	1298.6	1295.6
5°	1388.4	1424.3	1442.3	1439.3	1418.3	1379.4	1328.6	1274.7	1259.7	1253.8
7.5°	1367.5	1436.3	1490.1	1499.1	1460.2	1391.4	1298.6	1217.8	1196.9	1187.9
10°	1415.3	1550.0	1657.7	1672.7	1627.8	1493.1	1343.5	1205.9	1173.0	1152.0
12.5°	1672.7	1894.1	2025.8	2088.6	2001.8	1831.3	1582.9	1337.5	1262.7	1229.8
15°	2193.3	2507.5	2758.9	2758.9	2678.1	2375.8	2061.7	1663.7	1562.0	1472.2
17.5°	2860.6	3255.6	3477.0	3453.1	3330.4	3117.9	2740.9	2169.4	1962.9	1870.2
20°	3620.6	3857.0	3907.9	3892.9	3839.1	3716.4	3456.0	2842.6	2564.4	2420.7
22.5°	4278.9	4216.1	4141.3	4081.4	4066.5	4102.4	4066.5	3593.7	3375.3	3120.9
25°	4724.8	4368.7	4144.3	4036.5	4087.4	4293.9	4518.3	4341.8	4168.2	3904.9
27.5°	4967.1	4350.7	4027.6	3916.9	4003.6	4296.9	4784.6	5083.8	4904.3	4778.6
30°	5098.8	4335.8	3952.8	3845.0	3976.7	4344.7	4970.1	5778.0	5784.0	5583.5
32.5°	5287.3	4431.5	3967.7	3869.0	4045.5	4488.4	5203.5	6484.2	6657.8	6550.0
35°	5499.8	4578.1	4036.5	3946.8	4165.2	4679.9	5463.9	7196.4	7558.4	7522.5
37.5°	5700.2	4742.7	4198.1	4111.4	4347.7	4844.5	5715.2	7896.6	8399.2	8524.9
40°	5909.7	4973.1	4694.8	4778.6	4910.3	5104.8	5939.6	8504.0	9323.9	9512.4
42.5°	6403.4	5772.1	6197.0	6355.5	6373.5	5972.5	6430.3	9282.0	10233.5	10457.9
45°	7504.6	7193.4	8411.2	8635.6	8518.9	7304.1	7612.3	10404.1	11505.2	11618.9
47.5°	8896.0	9039.6	11442.4	12217.4	11517.2	8875.0	9045.6	12764.9	13833.2	13791.3
50°	10517.8	11197.0	14883.5	16711.7	15036.1	10915.7	10697.3	15667.4	16963.1	16834.4
52.5°	12435.8	13704.5	19018.7	21616.0	20030.1	13210.8	13121.0	19512.5	20302.4	19892.5
55°	14850.5	16125.2	23776.4	27406.0	25149.9	16011.5	16319.7	23970.9	24123.5	22821.9
57.5°	18453.2	19282.1	29383.9	34045.8	30494.0	19817.7	22052.9	29904.6	28079.3	25613.7
60°	24994.3	23342.5	34802.9	40838.2	36179.3	25170.8	29614.3	33420.5	29395.9	25996.7
62.5°	27271.4	26789.6	38196.1	43710.8	40003.4	29566.4	31580.2	31427.6	27690.3	24548.4
65°	23821.3	25930.8	37588.7	42193.7	39512.7	28842.3	28339.6	29228.3	25769.3	22349.1
67.5°	22005.0	23914.1	35287.6	38007.6	36792.7	26385.7	25260.6	25018.2	21634.0	18911.0
70°	20173.8	22064.9	31951.3	32289.4	31723.8	22382.0	20903.9	19279.1	16170.1	13803.3
72.5°	17971.5	19012.8	27322.2	25718.4	25078.1	17579.5	17268.3	14518.4	12121.6	10089.9
75°	15673.4	15371.2	21301.8	17651.3	18130.0	13677.6	14584.2	10661.4	8881.0	7262.2
77.5°	11400.5	11176.1	14267.1	10721.2	11873.3	8958.8	8049.2	4255.0	4051.5	3494.9
80°	6361.5	7669.1	7705.0	6008.4	7495.6	5840.9	2013.8	140.6	89.8	131.7
82.5°	2956.3	3297.5	4177.2	2785.8	4275.9	2893.5	415.9	0.0	0.0	0.0
85°	957.5	1400.4	1173.0	409.9	1035.3	978.5	68.8	0.0	0.0	0.0
87.5°	56.9	116.7	29.9	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

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