

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: P643761

Luminaire Tested: GWS-SA6F-750-U-SLL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643761  
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-SAGF-750-U-SLL-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (96) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

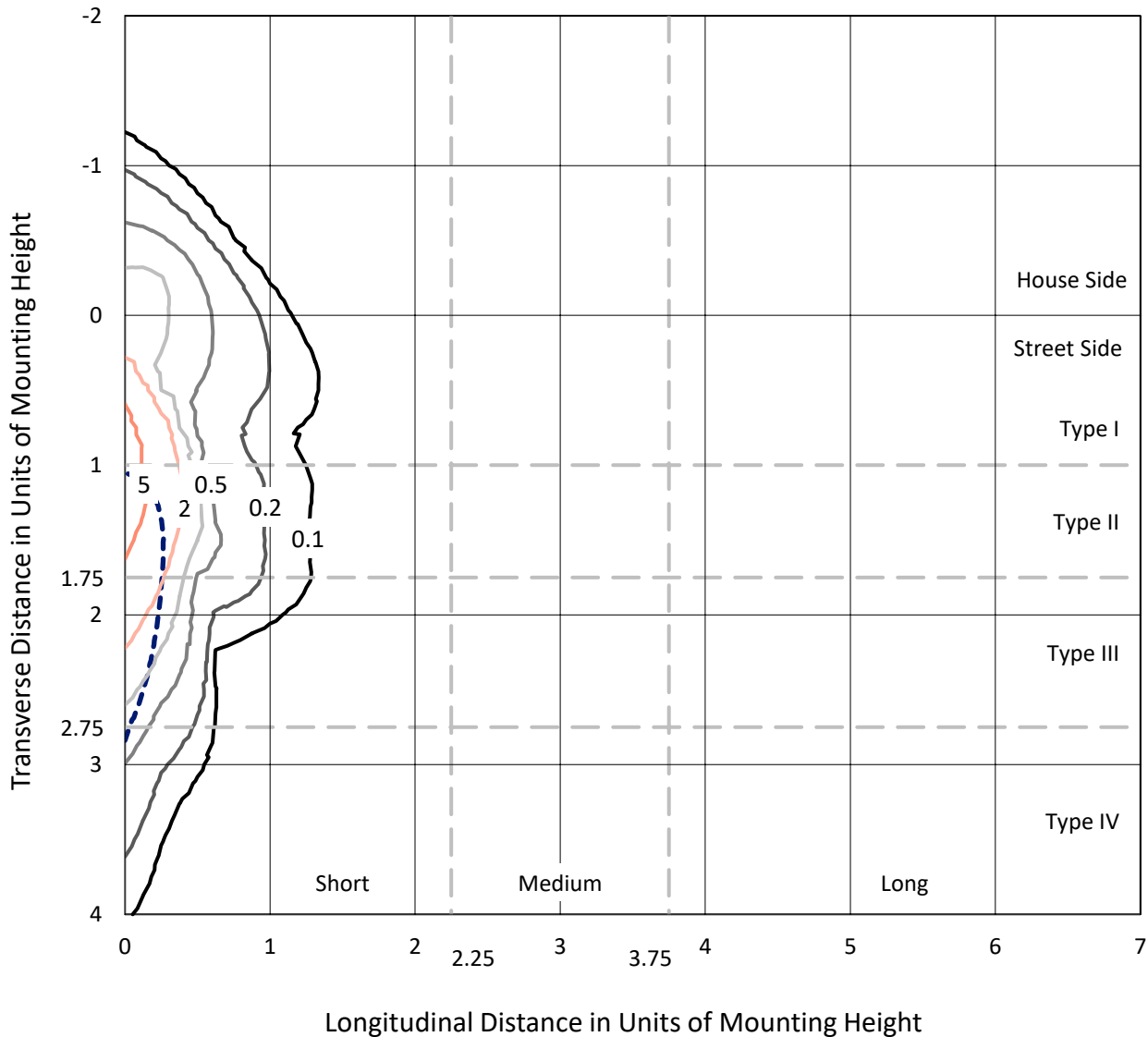
Lumens per Lamp: N/A  
Luminaire Lumens: 30824.8 lumens  
Efficiency: N/A  
Efficacy: 82.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G5  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

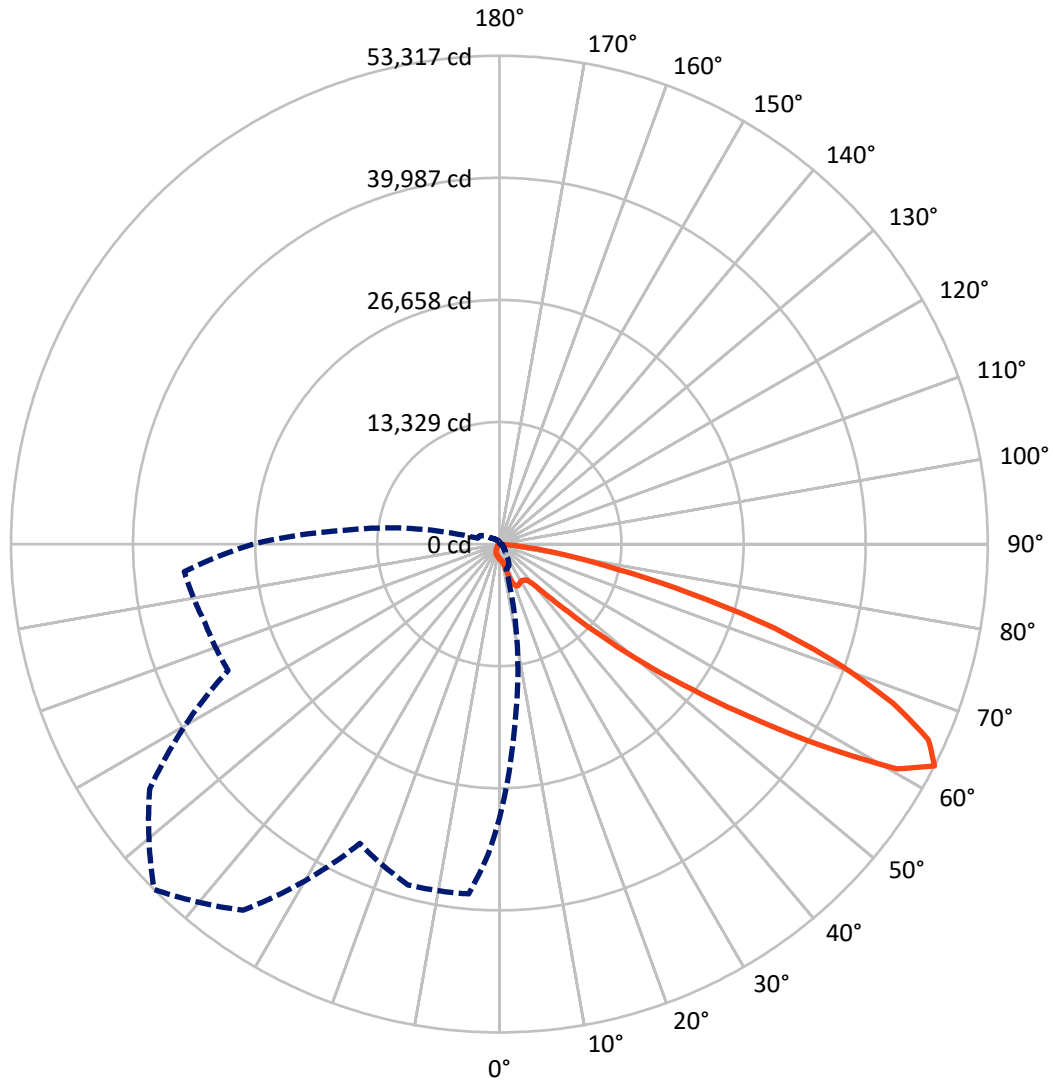
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3581.4	0.0	3581.4
	% Fixture	11.6	0.0	11.6
<b>Street Side</b>	Lumens	27243.3	0.0	27243.3
	% Fixture	88.4	0.0	88.4
<b>Total</b>	Lumens	30824.8	0.0	30824.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.0	0.4
10°-20°	473.2	1.5
20°-30°	1068.9	3.5
30°-40°	1841.5	6.0
40°-50°	3473.7	11.3
50°-60°	7755.8	25.2
60°-70°	10373.2	33.7
70°-80°	5201.9	16.9
80°-90°	498.6	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°	30824.8	100.0
0°-180°	30824.8	100.0

**Coefficient of Utilization**



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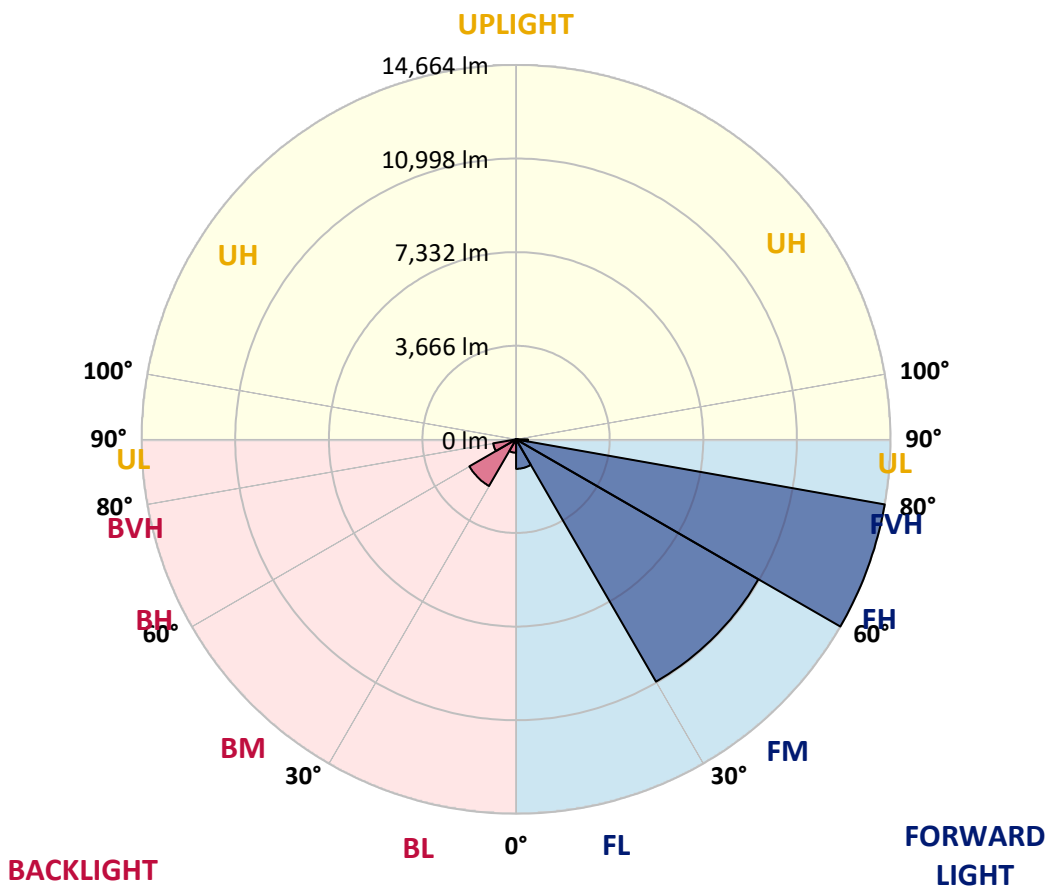
CATALOG NUMBER: GWS-SA6F-750-U-SLL-W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1154.4	3.7			
FM (30°-60°)	10959.1	35.6			
FH (60°-80°)	14664.4	47.6			G5
FVH (80°-90°)	465.4	1.5			G3/500
BL (0°-30°)	525.7	1.7	B2/1000		
BM (30°-60°)	2111.8	6.9	B2/2500		
BH (60°-80°)	910.7	3.0	B2/1000		G2/1000
BVH (80°-90°)	33.2	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1598.6	1598.6	1598.6	1598.6	1598.6	1598.6	1598.6	1598.6	1598.6	1598.6	1598.6
2.5°	1580.4	1576.7	1569.4	1547.5	1529.3	1518.3	1496.4	1496.4	1492.8	1485.5	1470.9
5°	1529.3	1514.7	1500.1	1459.9	1416.1	1390.6	1361.4	1357.7	1357.7	1350.4	1346.8
7.5°	1449.0	1434.4	1416.1	1350.4	1310.3	1284.7	1259.2	1255.5	1244.6	1244.6	1244.6
10°	1405.2	1383.3	1354.1	1281.1	1240.9	1219.0	1200.8	1189.8	1182.5	1171.6	1167.9
12.5°	1500.1	1459.9	1397.9	1266.5	1211.7	1182.5	1160.6	1153.3	1131.4	1116.8	1105.9
15°	1795.7	1697.2	1573.1	1299.3	1200.8	1157.0	1127.8	1113.2	1094.9	1069.4	1051.1
17.5°	2281.1	2138.8	1930.8	1405.2	1189.8	1135.1	1098.6	1073.0	1047.5	1018.3	996.4
20°	2952.7	2741.0	2492.8	1598.6	1189.8	1109.5	1065.7	1032.9	996.4	963.6	938.0
22.5°	3806.8	3595.1	3171.7	1927.1	1204.4	1076.7	1025.6	981.8	938.0	908.8	879.6
25°	4763.0	4463.7	4069.5	2324.9	1244.6	1032.9	978.2	934.4	894.2	857.7	824.9
27.5°	5828.8	5503.9	4978.3	2890.7	1332.2	989.1	927.1	886.9	850.4	813.9	770.1
30°	6810.6	6617.1	6080.6	3569.5	1474.5	959.9	886.9	850.4	813.9	766.5	726.3
32.5°	7989.4	7646.4	7204.7	4343.3	1664.3	930.7	854.1	803.0	773.8	730.0	686.2
35°	9175.6	8883.6	8303.3	5295.9	1876.0	901.5	813.9	766.5	740.9	689.8	642.4
37.5°	10398.3	10332.6	9759.6	6350.7	2084.0	868.7	766.5	737.3	711.7	653.3	598.6
40°	11602.8	11482.3	10953.1	7555.1	2211.8	832.2	726.3	708.1	678.9	613.2	551.1
42.5°	12756.1	12664.9	12150.2	8708.5	2193.5	799.3	686.2	664.3	642.4	576.7	500.0
45°	14172.2	14022.6	13372.9	9562.5	2007.4	835.8	646.0	609.5	605.9	543.8	448.9
47.5°	16822.0	16329.3	15227.0	10219.5	1821.3	930.7	602.2	558.4	584.0	511.0	397.8
50°	20533.9	19953.5	18358.6	10730.5	1817.6	1054.8	594.9	511.0	565.7	485.4	354.0
52.5°	24264.0	23242.0	21304.0	11004.2	1952.7	1146.0	660.6	463.5	543.8	459.9	321.2
55°	27837.1	25716.6	22537.6	10099.0	2058.5	1244.6	781.1	438.0	503.7	430.7	302.9
57.5°	31242.4	27705.7	23074.1	7989.4	2412.5	1284.7	854.1	448.9	445.3	394.2	288.3
60°	31709.6	27610.8	21990.1	4646.2	2660.7	1215.4	824.9	500.0	390.5	350.4	262.8
62.5°	29943.1	25775.0	19519.2	2898.0	2470.9	1189.8	733.6	569.4	354.0	310.2	229.9
65°	27260.5	22895.3	16274.5	1868.7	1872.4	1321.2	642.4	558.4	332.1	273.7	197.1
67.5°	23066.8	19161.5	12821.8	1251.9	1058.4	1127.8	562.1	383.2	324.8	233.6	153.3
70°	16836.6	13639.4	8347.1	835.8	631.4	901.5	470.8	273.7	306.6	193.4	109.5
72.5°	12307.2	9164.7	4660.8	547.5	357.7	525.6	346.7	197.1	237.2	142.3	76.6
75°	8858.1	6306.9	2660.7	350.4	237.2	288.3	226.3	135.0	153.3	113.1	69.3
77.5°	4263.0	3073.1	1208.1	193.4	160.6	146.0	120.4	83.9	94.9	102.2	62.0
80°	160.6	120.4	91.2	94.9	102.2	65.7	54.7	43.8	54.7	69.3	32.8
82.5°	0.0	0.0	0.0	10.9	14.6	18.2	21.9	18.2	21.9	25.5	3.6
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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1598.6	1598.6	1598.6	1598.6	1598.6	1598.6	1598.6	1598.6	1598.6	1598.6	1598.6
2.5°	1481.8	1474.5	1481.8	1489.1	1496.4	1503.7	1492.8	1500.1	1507.4	1489.1	1496.4
5°	1365.0	1361.4	1383.3	1394.2	1408.8	1416.1	1408.8	1408.8	1405.2	1383.3	1383.3
7.5°	1262.8	1266.5	1284.7	1310.3	1328.5	1339.5	1332.2	1328.5	1317.6	1284.7	1284.7
10°	1186.2	1186.2	1215.4	1237.3	1262.8	1273.8	1266.5	1255.5	1244.6	1211.7	1208.1
12.5°	1124.1	1124.1	1146.0	1182.5	1211.7	1226.3	1222.7	1208.1	1189.8	1157.0	1153.3
15°	1065.7	1062.1	1094.9	1127.8	1167.9	1186.2	1178.9	1167.9	1135.1	1105.9	1098.6
17.5°	1007.3	1003.7	1032.9	1076.7	1120.5	1146.0	1142.4	1116.8	1087.6	1051.1	1043.8
20°	949.0	941.7	978.2	1021.9	1065.7	1091.3	1084.0	1062.1	1025.6	989.1	981.8
22.5°	890.6	886.9	912.5	949.0	989.1	1011.0	1007.3	989.1	952.6	919.8	919.8
25°	824.9	824.9	843.1	868.7	897.9	908.8	912.5	905.2	883.3	865.0	865.0
27.5°	770.1	759.2	766.5	773.8	788.4	806.6	806.6	813.9	817.6	810.3	813.9
30°	726.3	708.1	697.1	682.5	675.2	682.5	689.8	715.4	740.9	755.5	762.8
32.5°	675.2	653.3	624.1	584.0	558.4	551.1	573.0	620.5	667.9	700.8	719.0
35°	624.1	594.9	540.2	481.8	448.9	438.0	463.5	518.3	587.6	646.0	671.6
37.5°	573.0	532.9	456.2	386.9	350.4	343.1	368.6	427.0	507.3	587.6	620.5
40°	514.6	467.2	375.9	302.9	273.7	266.4	288.3	346.7	430.7	521.9	573.0
42.5°	456.2	397.8	302.9	240.9	211.7	211.7	240.9	284.7	361.3	459.9	521.9
45°	397.8	335.8	248.2	193.4	175.2	178.8	197.1	240.9	302.9	405.1	463.5
47.5°	343.1	288.3	204.4	160.6	146.0	149.6	171.5	208.0	259.1	350.4	412.4
50°	295.6	244.5	178.8	135.0	124.1	131.4	153.3	186.1	229.9	310.2	361.3
52.5°	266.4	219.0	164.2	116.8	109.5	116.8	138.7	167.9	208.0	273.7	324.8
55°	251.8	215.3	164.2	105.8	94.9	102.2	124.1	153.3	186.1	248.2	292.0
57.5°	248.2	222.6	175.2	94.9	80.3	87.6	109.5	138.7	171.5	226.3	262.8
60°	233.6	211.7	171.5	76.6	62.0	73.0	91.2	120.4	156.9	211.7	244.5
62.5°	204.4	186.1	149.6	62.0	47.4	54.7	76.6	105.8	142.3	193.4	229.9
65°	167.9	149.6	116.8	40.1	29.2	36.5	58.4	91.2	124.1	175.2	208.0
67.5°	124.1	105.8	80.3	25.5	14.6	25.5	47.4	76.6	113.1	156.9	189.8
70°	76.6	62.0	43.8	14.6	10.9	21.9	43.8	73.0	102.2	146.0	178.8
72.5°	43.8	29.2	18.2	7.3	10.9	21.9	43.8	73.0	98.5	138.7	167.9
75°	32.8	18.2	7.3	3.6	7.3	18.2	40.1	65.7	94.9	131.4	160.6
77.5°	21.9	10.9	3.6	0.0	3.6	14.6	36.5	62.0	87.6	124.1	153.3
80°	3.6	0.0	0.0	0.0	0.0	10.9	32.8	54.7	80.3	109.5	135.0
82.5°	0.0	0.0	0.0	0.0	0.0	3.6	25.5	47.4	69.3	91.2	109.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	14.6	36.5	54.7	69.3	76.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.2	36.5	43.8	51.1
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°	1598.6	1598.6	1598.6	1598.6	1598.6	1598.6	1598.6	1598.6	1598.6	1598.6	1598.6
2.5°	1492.8	1514.7	1514.7	1529.3	1547.5	1580.4	1598.6	1624.2	1642.4	1660.7	1668.0
5°	1379.6	1383.3	1386.9	1394.2	1416.1	1452.6	1485.5	1525.6	1573.1	1609.6	1631.5
7.5°	1284.7	1284.7	1284.7	1295.7	1317.6	1343.1	1376.0	1430.7	1485.5	1529.3	1565.8
10°	1204.4	1215.4	1219.0	1237.3	1262.8	1295.7	1332.2	1379.6	1441.7	1500.1	1565.8
12.5°	1153.3	1164.3	1182.5	1200.8	1226.3	1262.8	1303.0	1365.0	1492.8	1613.2	1751.9
15°	1105.9	1120.5	1142.4	1167.9	1197.1	1237.3	1281.1	1408.8	1708.1	1934.4	2153.4
17.5°	1054.8	1076.7	1105.9	1131.4	1167.9	1211.7	1266.5	1514.7	2102.3	2478.2	2850.5
20°	989.1	1018.3	1051.1	1091.3	1135.1	1186.2	1266.5	1733.7	2671.7	3211.8	3704.6
22.5°	927.1	956.3	996.4	1047.5	1098.6	1149.7	1284.7	2065.8	3405.3	4087.8	4711.9
25°	876.0	912.5	952.6	996.4	1054.8	1113.2	1328.5	2533.0	4288.5	5168.1	5609.8
27.5°	828.5	872.3	912.5	949.0	1000.0	1065.7	1427.1	3157.1	5332.4	6226.6	6573.3
30°	781.1	832.2	872.3	908.8	959.9	1029.2	1576.7	3952.7	6493.0	7361.7	7398.2
32.5°	740.9	788.4	835.8	872.3	919.8	1000.0	1784.8	4883.5	7682.9	8522.3	8179.2
35°	697.1	751.9	795.7	835.8	886.9	974.5	2025.6	5887.1	8883.6	9588.1	8956.6
37.5°	653.3	715.4	770.1	799.3	850.4	949.0	2200.8	6934.6	10110.0	10628.3	9639.2
40°	613.2	682.5	744.6	773.8	799.3	916.1	2226.4	8007.7	11354.6	11653.9	10281.5
42.5°	569.4	646.0	700.8	740.9	762.8	894.2	2073.1	8912.8	12398.4	12675.8	11121.0
45°	521.9	613.2	657.0	686.2	730.0	908.8	1876.0	9613.6	13591.9	14070.0	12504.3
47.5°	474.5	576.7	613.2	635.1	693.5	996.4	1803.0	10080.8	15559.2	16551.9	14836.5
50°	430.7	543.8	584.0	580.3	686.2	1109.5	1883.3	10434.8	18515.5	19683.4	18033.7
52.5°	383.2	507.3	554.8	540.2	740.9	1197.1	2043.9	10715.9	20789.3	23355.2	22329.6
55°	343.1	467.2	511.0	507.3	843.1	1262.8	2168.0	9234.0	21731.0	26767.7	27169.2
57.5°	313.9	423.4	459.9	521.9	908.8	1262.8	2507.4	6555.1	21749.2	29278.8	33592.9
60°	288.3	383.2	408.8	573.0	883.3	1197.1	2481.9	4014.8	20044.8	29107.3	37009.1
62.5°	266.4	346.7	379.6	587.6	781.1	1186.2	2241.0	2489.2	17095.7	26891.8	34530.9
65°	248.2	317.5	365.0	540.2	708.1	1270.1	1511.0	1788.4	13865.6	24366.2	31687.7
67.5°	229.9	292.0	386.9	441.6	642.4	1135.1	1091.3	1270.1	10883.7	21595.9	29078.1
70°	215.3	277.4	408.8	361.3	562.1	886.9	773.8	963.6	8332.5	18019.1	25402.7
72.5°	204.4	259.1	343.1	284.7	456.2	686.2	540.2	700.8	5445.5	14066.4	20709.0
75°	193.4	237.2	251.8	229.9	339.4	448.9	408.8	470.8	3244.7	10281.5	15712.4
77.5°	189.8	222.6	204.4	186.1	229.9	266.4	310.2	317.5	1584.0	5142.6	8234.0
80°	167.9	200.7	175.2	153.3	156.9	175.2	229.9	211.7	361.3	1306.6	2197.2
82.5°	131.4	156.9	146.0	127.7	127.7	127.7	153.3	142.3	116.8	587.6	992.7
85°	91.2	109.5	109.5	102.2	98.5	98.5	94.9	91.2	32.8	36.5	54.7
87.5°	62.0	76.6	80.3	76.6	65.7	58.4	51.1	43.8	14.6	0.0	7.3
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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CATALOG NUMBER: GWS-SA6F-750-U-SLL-W-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	1598.6	1598.6	1598.6	1598.6	1598.6	1598.6	1598.6	1598.6	1598.6	1598.6
2.5°	1693.5	1704.5	1704.5	1689.9	1678.9	1649.7	1620.5	1591.3	1584.0	1580.4
5°	1693.5	1737.3	1759.2	1755.6	1730.0	1682.6	1620.5	1554.8	1536.6	1529.3
7.5°	1668.0	1751.9	1817.6	1828.6	1781.1	1697.2	1584.0	1485.5	1459.9	1449.0
10°	1726.4	1890.6	2022.0	2040.2	1985.5	1821.3	1638.8	1470.9	1430.7	1405.2
12.5°	2040.2	2310.3	2470.9	2547.6	2441.7	2233.7	1930.8	1631.5	1540.2	1500.1
15°	2675.3	3058.5	3365.1	3365.1	3266.6	2898.0	2514.7	2029.3	1905.2	1795.7
17.5°	3489.2	3971.0	4241.1	4211.9	4062.2	3803.1	3343.2	2646.1	2394.3	2281.1
20°	4416.3	4704.6	4766.7	4748.4	4682.7	4533.1	4215.5	3467.3	3127.9	2952.7
22.5°	5219.2	5142.6	5051.3	4978.3	4960.1	5003.9	4960.1	4383.4	4117.0	3806.8
25°	5763.1	5328.7	5055.0	4923.6	4985.6	5237.5	5511.2	5295.9	5084.2	4763.0
27.5°	6058.7	5306.8	4912.6	4777.6	4883.5	5241.1	5836.1	6201.0	5982.0	5828.8
30°	6219.3	5288.6	4821.4	4690.0	4850.6	5299.5	6062.3	7047.8	7055.1	6810.6
32.5°	6449.2	5405.4	4839.7	4719.2	4934.5	5474.7	6347.0	7909.1	8120.8	7989.4
35°	6708.4	5584.2	4923.6	4814.1	5080.5	5708.3	6664.6	8777.8	9219.4	9175.6
37.5°	6952.9	5785.0	5120.7	5014.8	5303.2	5909.0	6971.1	9631.9	10245.0	10398.3
40°	7208.4	6066.0	5726.6	5828.8	5989.3	6226.6	7244.9	10372.8	11372.8	11602.8
42.5°	7810.6	7040.5	7558.8	7752.2	7774.1	7285.0	7843.4	11321.7	12482.4	12756.1
45°	9153.7	8774.2	10259.6	10533.4	10391.0	8909.2	9285.1	12690.4	14033.5	14172.2
47.5°	10850.9	11026.1	13956.9	14902.2	14048.1	10825.3	11033.4	15570.1	16873.1	16822.0
50°	12829.1	13657.6	18154.2	20384.2	18340.3	13314.5	13048.1	19110.4	20690.8	20533.9
52.5°	15168.6	16716.1	23198.2	26366.3	24431.9	16113.9	16004.4	23800.4	24764.0	24264.0
55°	18114.0	19668.8	29001.4	33428.6	30676.7	19530.2	19906.1	29238.7	29424.8	27837.1
57.5°	22508.4	23519.4	35841.2	41527.6	37195.3	24172.7	26899.1	36476.2	34249.9	31242.4
60°	30486.9	28472.2	42451.0	49812.7	44129.9	30702.2	36122.2	40764.8	35855.8	31709.6
62.5°	33264.4	32676.8	46589.9	53316.5	48794.4	36063.8	38520.1	38334.0	33775.4	29943.1
65°	29056.2	31629.3	45849.0	51466.0	48195.8	35180.6	34567.4	35651.4	31432.2	27260.5
67.5°	26840.7	29169.3	43042.3	46359.9	44878.1	32184.1	30811.7	30516.1	26388.2	23066.8
70°	24607.0	26913.7	38972.7	39385.1	38695.3	27300.6	25497.6	23515.7	19723.6	16836.6
72.5°	21920.8	23190.9	33326.4	31370.1	30589.1	21442.7	21063.1	17708.9	14785.4	12307.2
75°	19117.7	18749.1	25983.0	21530.3	22114.2	16683.3	17789.2	13004.3	10832.6	8858.1
77.5°	13905.8	13632.1	17402.3	13077.3	14482.5	10927.5	9818.0	5190.0	4941.8	4263.0
80°	7759.5	9354.5	9398.3	7328.8	9142.8	7124.4	2456.3	171.5	109.5	160.6
82.5°	3606.0	4022.1	5095.1	3398.0	5215.6	3529.4	507.3	0.0	0.0	0.0
85°	1167.9	1708.1	1430.7	500.0	1262.8	1193.5	83.9	0.0	0.0	0.0
87.5°	69.3	142.3	36.5	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

(END OF REPORT)