

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: P643816

Luminaire Tested: GWS-SA6F-760-U-SLL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643816
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-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30402.3 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G5

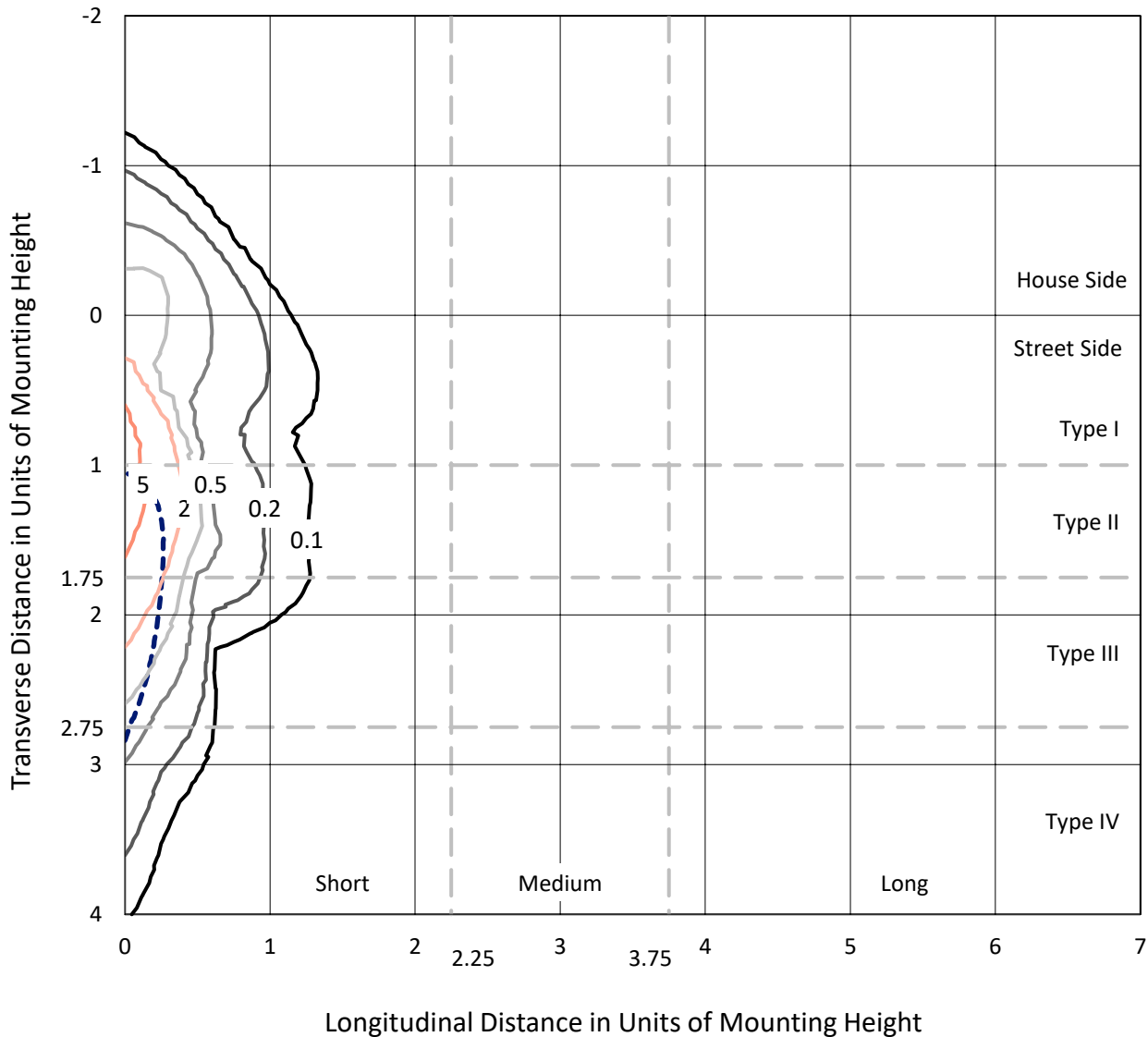
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

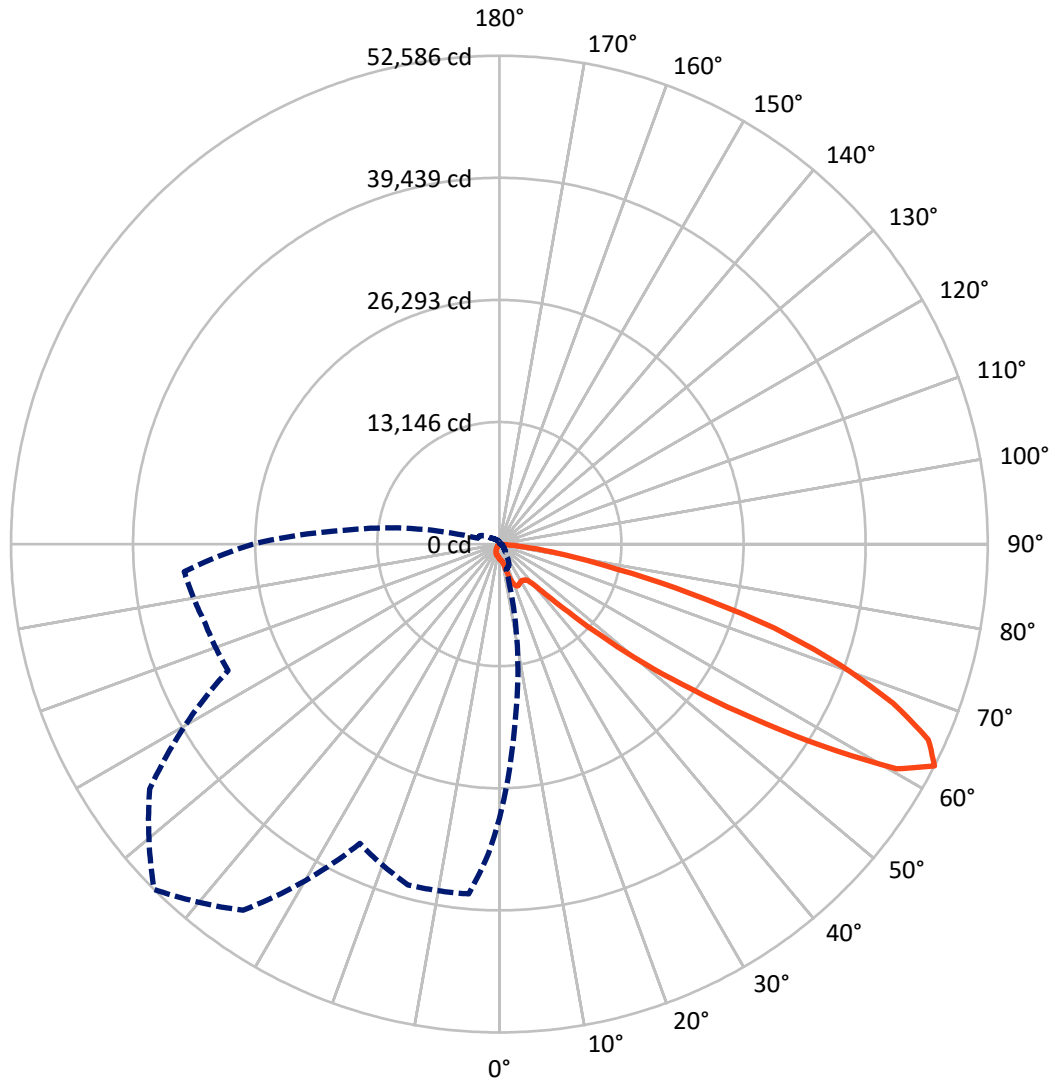
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6 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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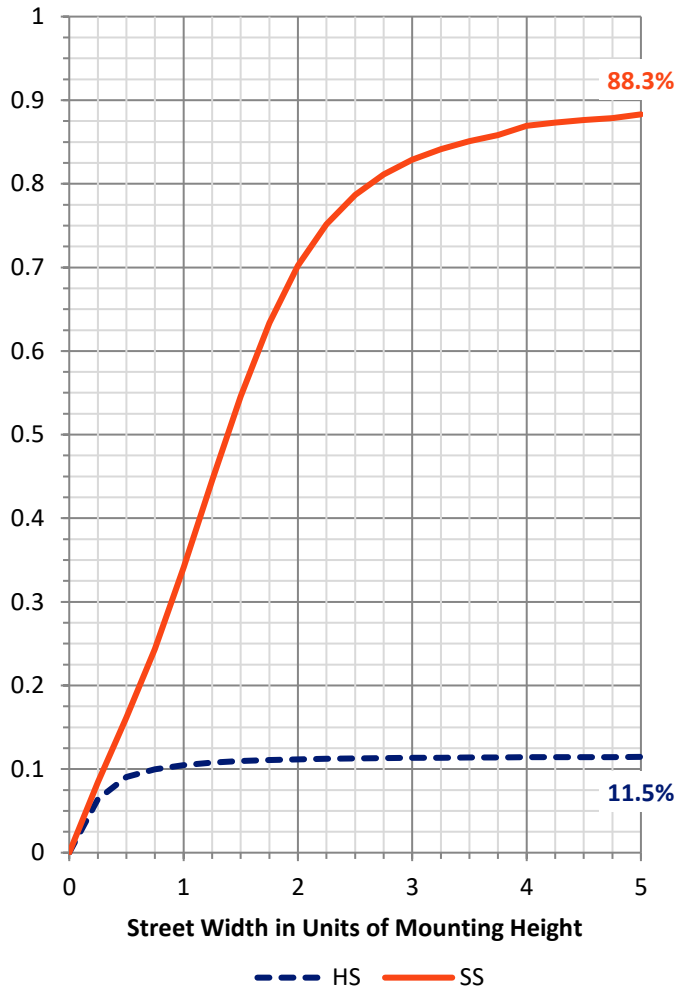
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3532.4	0.0	3532.4
	% Fixture	11.6	0.0	11.6
Street Side	Lumens	26870.0	0.0	26870.0
	% Fixture	88.4	0.0	88.4
Total	Lumens	30402.3	0.0	30402.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.1	0.4
10°-20°	466.7	1.5
20°-30°	1054.3	3.5
30°-40°	1816.2	6.0
40°-50°	3426.1	11.3
50°-60°	7649.5	25.2
60°-70°	10231.1	33.7
70°-80°	5130.6	16.9
80°-90°	491.8	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°	30402.3	100.0
0°-180°	30402.3	100.0

Coefficient of Utilization



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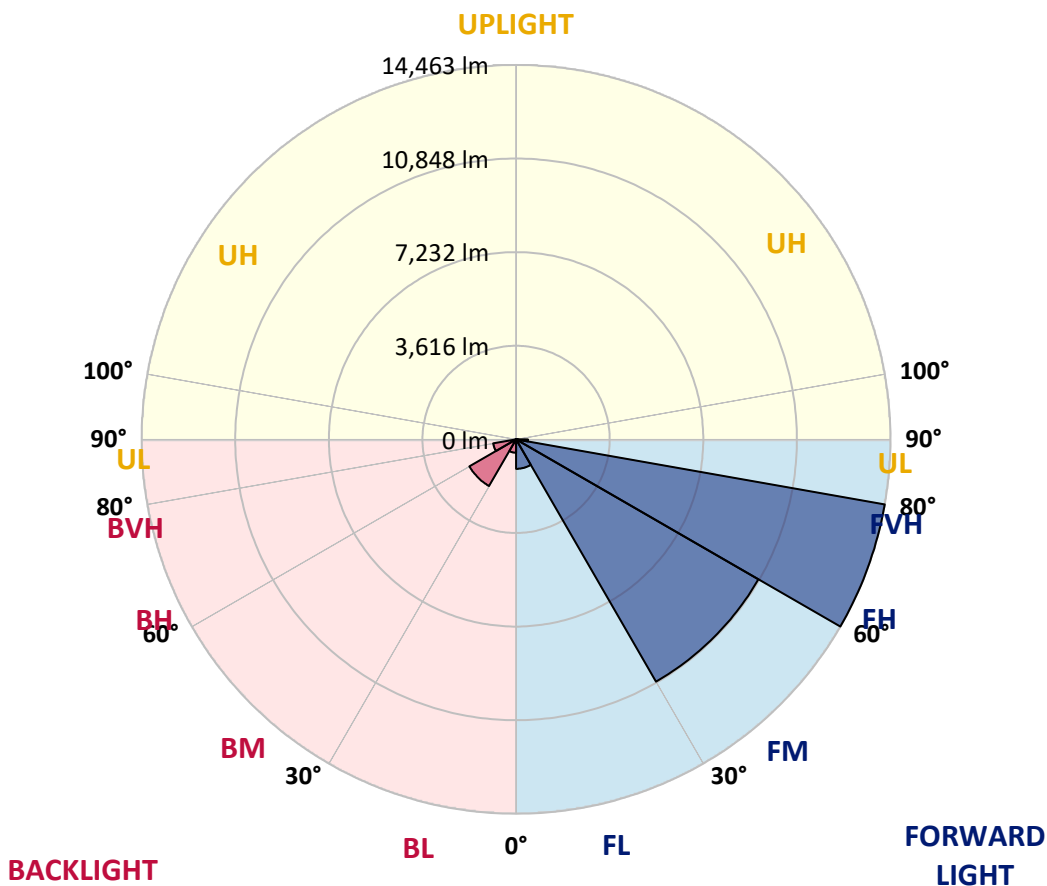
CATALOG NUMBER: GWS-SA6F-760-U-SLL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1138.6	3.7			
FM (30°-60°)	10808.9	35.6			
FH (60°-80°)	14463.4	47.6			G5
FVH (80°-90°)	459.0	1.5			G3/500
BL (0°-30°)	518.5	1.7	B2/1000		
BM (30°-60°)	2082.9	6.9	B2/2500		
BH (60°-80°)	898.3	3.0	B2/1000		G2/1000
BVH (80°-90°)	32.7	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°	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7
2.5°	1558.7	1555.1	1547.9	1526.3	1508.3	1497.5	1475.9	1475.9	1472.3	1465.1	1450.7
5°	1508.3	1493.9	1479.5	1439.9	1396.7	1371.5	1342.7	1339.1	1339.1	1331.9	1328.3
7.5°	1429.1	1414.7	1396.7	1331.9	1292.3	1267.1	1241.9	1238.3	1227.5	1227.5	1227.5
10°	1385.9	1364.3	1335.5	1263.5	1223.9	1202.3	1184.3	1173.5	1166.3	1155.5	1151.9
12.5°	1479.5	1439.9	1378.7	1249.1	1195.1	1166.3	1144.7	1137.5	1115.9	1101.5	1090.7
15°	1771.1	1673.9	1551.5	1281.5	1184.3	1141.1	1112.3	1097.9	1079.9	1054.7	1036.7
17.5°	2249.9	2109.5	1904.3	1385.9	1173.5	1119.5	1083.5	1058.3	1033.1	1004.3	982.7
20°	2912.2	2703.4	2458.7	1576.7	1173.5	1094.3	1051.1	1018.7	982.7	950.3	925.1
22.5°	3754.6	3545.8	3128.2	1900.7	1187.9	1061.9	1011.5	968.3	925.1	896.3	867.5
25°	4697.7	4402.5	4013.8	2293.1	1227.5	1018.7	964.7	921.5	881.9	846.0	813.6
27.5°	5748.9	5428.5	4910.1	2851.0	1313.9	975.5	914.3	874.7	838.8	802.8	759.6
30°	6717.2	6526.4	5997.2	3520.6	1454.3	946.7	874.7	838.8	802.8	756.0	716.4
32.5°	7879.9	7541.6	7106.0	4283.7	1641.5	917.9	842.4	792.0	763.2	720.0	676.8
35°	9049.9	8761.9	8189.5	5223.3	1850.3	889.1	802.8	756.0	730.8	680.4	633.6
37.5°	10255.8	10191.0	9625.8	6263.6	2055.5	856.7	756.0	727.2	702.0	644.4	590.4
40°	11443.7	11324.9	10803.0	7451.6	2181.5	820.8	716.4	698.4	669.6	604.8	543.6
42.5°	12581.3	12491.3	11983.7	8589.1	2163.5	788.4	676.8	655.2	633.6	568.8	493.2
45°	13978.0	13830.4	13189.6	9431.4	1979.9	824.4	637.2	601.2	597.6	536.4	442.8
47.5°	16591.4	16105.4	15018.3	10079.4	1796.3	917.9	594.0	550.8	576.0	504.0	392.4
50°	20252.4	19680.0	18106.9	10583.4	1792.7	1040.3	586.8	504.0	558.0	478.8	349.2
52.5°	23931.4	22923.4	21012.0	10853.4	1925.9	1130.3	651.6	457.2	536.4	453.6	316.8
55°	27455.6	25364.1	22228.7	9960.6	2030.3	1227.5	770.4	432.0	496.8	424.8	298.8
57.5°	30814.2	27326.0	22757.9	7879.9	2379.5	1267.1	842.4	442.8	439.2	388.8	284.4
60°	31275.0	27232.4	21688.7	4582.5	2624.2	1198.7	813.6	493.2	385.2	345.6	259.2
62.5°	29532.7	25421.7	19251.7	2858.2	2437.1	1173.5	723.6	561.6	349.2	306.0	226.8
65°	26886.8	22581.5	16051.5	1843.1	1846.7	1303.1	633.6	550.8	327.6	270.0	194.4
67.5°	22750.7	18898.9	12646.1	1234.7	1043.9	1112.3	554.4	378.0	320.4	230.4	151.2
70°	16605.8	13452.4	8232.7	824.4	622.8	889.1	464.4	270.0	302.4	190.8	108.0
72.5°	12138.5	9039.1	4596.9	540.0	352.8	518.4	342.0	194.4	234.0	140.4	75.6
75°	8736.7	6220.4	2624.2	345.6	234.0	284.4	223.2	133.2	151.2	111.6	68.4
77.5°	4204.6	3031.0	1191.5	190.8	158.4	144.0	118.8	82.8	93.6	100.8	61.2
80°	158.4	118.8	90.0	93.6	100.8	64.8	54.0	43.2	54.0	68.4	32.4
82.5°	0.0	0.0	0.0	10.8	14.4	18.0	21.6	18.0	21.6	25.2	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°	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7
2.5°	1461.5	1454.3	1461.5	1468.7	1475.9	1483.1	1472.3	1479.5	1486.7	1468.7	1475.9
5°	1346.3	1342.7	1364.3	1375.1	1389.5	1396.7	1389.5	1389.5	1385.9	1364.3	1364.3
7.5°	1245.5	1249.1	1267.1	1292.3	1310.3	1321.1	1313.9	1310.3	1299.5	1267.1	1267.1
10°	1169.9	1169.9	1198.7	1220.3	1245.5	1256.3	1249.1	1238.3	1227.5	1195.1	1191.5
12.5°	1108.7	1108.7	1130.3	1166.3	1195.1	1209.5	1205.9	1191.5	1173.5	1141.1	1137.5
15°	1051.1	1047.5	1079.9	1112.3	1151.9	1169.9	1162.7	1151.9	1119.5	1090.7	1083.5
17.5°	993.5	989.9	1018.7	1061.9	1105.1	1130.3	1126.7	1101.5	1072.7	1036.7	1029.5
20°	935.9	928.7	964.7	1007.9	1051.1	1076.3	1069.1	1047.5	1011.5	975.5	968.3
22.5°	878.3	874.7	899.9	935.9	975.5	997.1	993.5	975.5	939.5	907.1	907.1
25°	813.6	813.6	831.6	856.7	885.5	896.3	899.9	892.7	871.1	853.1	853.1
27.5°	759.6	748.8	756.0	763.2	777.6	795.6	795.6	802.8	806.4	799.2	802.8
30°	716.4	698.4	687.6	673.2	666.0	673.2	680.4	705.6	730.8	745.2	752.4
32.5°	666.0	644.4	615.6	576.0	550.8	543.6	565.2	612.0	658.8	691.2	709.2
35°	615.6	586.8	532.8	475.2	442.8	432.0	457.2	511.2	579.6	637.2	662.4
37.5°	565.2	525.6	450.0	381.6	345.6	338.4	363.6	421.2	500.4	579.6	612.0
40°	507.6	460.8	370.8	298.8	270.0	262.8	284.4	342.0	424.8	514.8	565.2
42.5°	450.0	392.4	298.8	237.6	208.8	208.8	237.6	280.8	356.4	453.6	514.8
45°	392.4	331.2	244.8	190.8	172.8	176.4	194.4	237.6	298.8	399.6	457.2
47.5°	338.4	284.4	201.6	158.4	144.0	147.6	169.2	205.2	255.6	345.6	406.8
50°	291.6	241.2	176.4	133.2	122.4	129.6	151.2	183.6	226.8	306.0	356.4
52.5°	262.8	216.0	162.0	115.2	108.0	115.2	136.8	165.6	205.2	270.0	320.4
55°	248.4	212.4	162.0	104.4	93.6	100.8	122.4	151.2	183.6	244.8	288.0
57.5°	244.8	219.6	172.8	93.6	79.2	86.4	108.0	136.8	169.2	223.2	259.2
60°	230.4	208.8	169.2	75.6	61.2	72.0	90.0	118.8	154.8	208.8	241.2
62.5°	201.6	183.6	147.6	61.2	46.8	54.0	75.6	104.4	140.4	190.8	226.8
65°	165.6	147.6	115.2	39.6	28.8	36.0	57.6	90.0	122.4	172.8	205.2
67.5°	122.4	104.4	79.2	25.2	14.4	25.2	46.8	75.6	111.6	154.8	187.2
70°	75.6	61.2	43.2	14.4	10.8	21.6	43.2	72.0	100.8	144.0	176.4
72.5°	43.2	28.8	18.0	7.2	10.8	21.6	43.2	72.0	97.2	136.8	165.6
75°	32.4	18.0	7.2	3.6	7.2	18.0	39.6	64.8	93.6	129.6	158.4
77.5°	21.6	10.8	3.6	0.0	3.6	14.4	36.0	61.2	86.4	122.4	151.2
80°	3.6	0.0	0.0	0.0	0.0	10.8	32.4	54.0	79.2	108.0	133.2
82.5°	0.0	0.0	0.0	0.0	0.0	3.6	25.2	46.8	68.4	90.0	108.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	14.4	36.0	54.0	68.4	75.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.0	36.0	43.2	50.4
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°	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7
2.5°	1472.3	1493.9	1493.9	1508.3	1526.3	1558.7	1576.7	1601.9	1619.9	1637.9	1645.1
5°	1360.7	1364.3	1367.9	1375.1	1396.7	1432.7	1465.1	1504.7	1551.5	1587.5	1609.1
7.5°	1267.1	1267.1	1267.1	1277.9	1299.5	1324.7	1357.1	1411.1	1465.1	1508.3	1544.3
10°	1187.9	1198.7	1202.3	1220.3	1245.5	1277.9	1313.9	1360.7	1421.9	1479.5	1544.3
12.5°	1137.5	1148.3	1166.3	1184.3	1209.5	1245.5	1285.1	1346.3	1472.3	1591.1	1727.9
15°	1090.7	1105.1	1126.7	1151.9	1180.7	1220.3	1263.5	1389.5	1684.7	1907.9	2123.9
17.5°	1040.3	1061.9	1090.7	1115.9	1151.9	1195.1	1249.1	1493.9	2073.5	2444.3	2811.4
20°	975.5	1004.3	1036.7	1076.3	1119.5	1169.9	1249.1	1709.9	2635.0	3167.8	3653.8
22.5°	914.3	943.1	982.7	1033.1	1083.5	1133.9	1267.1	2037.5	3358.6	4031.8	4647.3
25°	863.9	899.9	939.5	982.7	1040.3	1097.9	1310.3	2498.3	4229.8	5097.3	5532.9
27.5°	817.2	860.3	899.9	935.9	986.3	1051.1	1407.5	3113.8	5259.3	6141.2	6483.2
30°	770.4	820.8	860.3	896.3	946.7	1015.1	1555.1	3898.6	6404.0	7260.8	7296.8
32.5°	730.8	777.6	824.4	860.3	907.1	986.3	1760.3	4816.5	7577.6	8405.5	8067.1
35°	687.6	741.6	784.8	824.4	874.7	961.1	1997.9	5806.5	8761.9	9456.6	8833.9
37.5°	644.4	705.6	759.6	788.4	838.8	935.9	2170.7	6839.6	9971.4	10482.6	9507.0
40°	604.8	673.2	734.4	763.2	788.4	903.5	2195.9	7897.9	11198.9	11494.1	10140.6
42.5°	561.6	637.2	691.2	730.8	752.4	881.9	2044.7	8790.7	12228.5	12502.1	10968.6
45°	514.8	604.8	648.0	676.8	720.0	896.3	1850.3	9481.8	13405.6	13877.2	12332.9
47.5°	468.0	568.8	604.8	626.4	684.0	982.7	1778.3	9942.6	15345.9	16325.0	14633.1
50°	424.8	536.4	576.0	572.4	676.8	1094.3	1857.5	10291.8	18261.7	19413.7	17786.6
52.5°	378.0	500.4	547.2	532.8	730.8	1180.7	2015.9	10569.0	20504.4	23035.0	22023.5
55°	338.4	460.8	504.0	500.4	831.6	1245.5	2138.3	9107.5	21433.1	26400.8	26796.8
57.5°	309.6	417.6	453.6	514.8	896.3	1245.5	2473.1	6465.2	21451.1	28877.5	33132.4
60°	284.4	378.0	403.2	565.2	871.1	1180.7	2447.9	3959.8	19770.0	28708.3	36501.8
62.5°	262.8	342.0	374.4	579.6	770.4	1169.9	2210.3	2455.1	16861.4	26523.2	34057.6
65°	244.8	313.2	360.0	532.8	698.4	1252.7	1490.3	1763.9	13675.6	24032.2	31253.4
67.5°	226.8	288.0	381.6	435.6	633.6	1119.5	1076.3	1252.7	10734.6	21299.9	28679.5
70°	212.4	273.6	403.2	356.4	554.4	874.7	763.2	950.3	8218.3	17772.2	25054.5
72.5°	201.6	255.6	338.4	280.8	450.0	676.8	532.8	691.2	5370.9	13873.6	20425.2
75°	190.8	234.0	248.4	226.8	334.8	442.8	403.2	464.4	3200.2	10140.6	15497.1
77.5°	187.2	219.6	201.6	183.6	226.8	262.8	306.0	313.2	1562.3	5072.1	8121.1
80°	165.6	198.0	172.8	151.2	154.8	172.8	226.8	208.8	356.4	1288.7	2167.1
82.5°	129.6	154.8	144.0	126.0	126.0	126.0	151.2	140.4	115.2	579.6	979.1
85°	90.0	108.0	108.0	100.8	97.2	97.2	93.6	90.0	32.4	36.0	54.0
87.5°	61.2	75.6	79.2	75.6	64.8	57.6	50.4	43.2	14.4	0.0	7.2
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-760-U-SLL-W-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7
2.5°	1670.3	1681.1	1681.1	1666.7	1655.9	1627.1	1598.3	1569.5	1562.3	1558.7
5°	1670.3	1713.5	1735.1	1731.5	1706.3	1659.5	1598.3	1533.5	1515.5	1508.3
7.5°	1645.1	1727.9	1792.7	1803.5	1756.7	1673.9	1562.3	1465.1	1439.9	1429.1
10°	1702.7	1864.7	1994.3	2012.3	1958.3	1796.3	1616.3	1450.7	1411.1	1385.9
12.5°	2012.3	2278.7	2437.1	2512.7	2408.3	2203.1	1904.3	1609.1	1519.1	1479.5
15°	2638.6	3016.6	3319.0	3319.0	3221.8	2858.2	2480.3	2001.5	1879.1	1771.1
17.5°	3441.4	3916.6	4183.0	4154.2	4006.6	3751.0	3297.4	2609.8	2361.5	2249.9
20°	4355.7	4640.1	4701.3	4683.3	4618.5	4470.9	4157.8	3419.8	3085.0	2912.2
22.5°	5147.7	5072.1	4982.1	4910.1	4892.1	4935.3	4892.1	4323.3	4060.6	3754.6
25°	5684.1	5255.7	4985.7	4856.1	4917.3	5165.7	5435.7	5223.3	5014.5	4697.7
27.5°	5975.6	5234.1	4845.3	4712.1	4816.5	5169.3	5756.1	6116.0	5900.1	5748.9
30°	6134.0	5216.1	4755.3	4625.7	4784.1	5226.9	5979.2	6951.2	6958.4	6717.2
32.5°	6360.8	5331.3	4773.3	4654.5	4866.9	5399.7	6260.0	7800.7	8009.5	7879.9
35°	6616.4	5507.7	4856.1	4748.1	5010.9	5630.1	6573.2	8657.5	9093.1	9049.9
37.5°	6857.6	5705.7	5050.5	4946.1	5230.5	5828.1	6875.6	9499.8	10104.6	10255.8
40°	7109.6	5982.8	5648.1	5748.9	5907.3	6141.2	7145.6	10230.6	11216.9	11443.7
42.5°	7703.5	6944.0	7455.2	7645.9	7667.5	7185.2	7735.9	11166.5	12311.3	12581.3
45°	9028.3	8653.9	10119.0	10389.0	10248.6	8787.1	9157.9	12516.5	13841.2	13978.0
47.5°	10702.2	10875.0	13765.6	14697.9	13855.6	10677.0	10882.2	15356.7	16641.8	16591.4
50°	12653.3	13470.4	17905.3	20104.8	18088.9	13132.0	12869.2	18848.5	20407.2	20252.4
52.5°	14960.7	16487.0	22880.2	26004.9	24097.0	15893.1	15785.1	23474.2	24424.6	23931.4
55°	17865.7	19399.3	28603.9	32970.5	30256.2	19262.5	19633.2	28837.9	29021.5	27455.6
57.5°	22199.9	23197.0	35349.9	40958.4	36685.4	23841.4	26530.4	35976.3	33780.4	30814.2
60°	30069.0	28081.9	41869.1	49129.9	43525.0	30281.4	35627.1	40206.0	35364.3	31275.0
62.5°	32808.5	32228.9	45951.3	52585.7	48125.6	35569.5	37992.2	37808.6	33312.4	29532.7
65°	28657.9	31195.8	45220.5	50760.6	47535.2	34698.4	34093.6	35162.7	31001.4	26886.8
67.5°	26472.8	28769.5	42452.3	45724.5	44263.0	31742.9	30389.4	30097.8	26026.5	22750.7
70°	24269.8	26544.8	38438.5	38845.3	38164.9	26926.4	25148.1	23193.4	19453.3	16605.8
72.5°	21620.3	22873.1	32869.7	30940.2	30169.8	21148.8	20774.4	17466.2	14582.7	12138.5
75°	18855.7	18492.1	25626.9	21235.1	21811.1	16454.6	17545.4	12826.0	10684.2	8736.7
77.5°	13715.2	13445.2	17163.8	12898.0	14284.0	10777.8	9683.4	5118.9	4874.1	4204.6
80°	7653.1	9226.3	9269.5	7228.4	9017.5	7026.8	2422.7	169.2	108.0	158.4
82.5°	3556.6	3967.0	5025.3	3351.4	5144.1	3481.0	500.4	0.0	0.0	0.0
85°	1151.9	1684.7	1411.1	493.2	1245.5	1177.1	82.8	0.0	0.0	0.0
87.5°	68.4	140.4	36.0	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

(END OF REPORT)