

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: P631439

Luminaire Tested: GWS-SA1F-760-U-SLL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631439  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-38)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1F-760-U-SLL-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (16) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

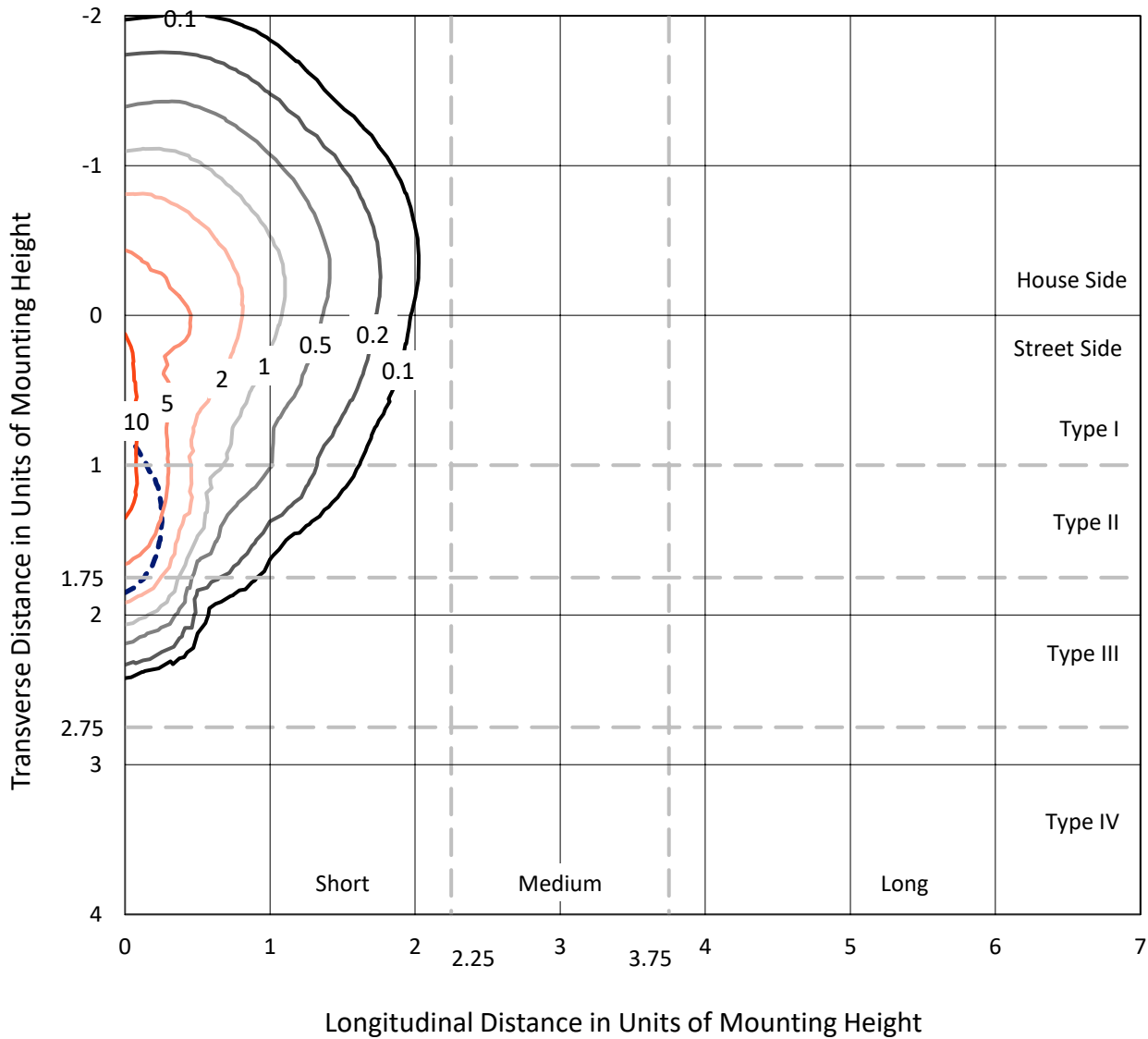
Lumens per Lamp: N/A  
Luminaire Lumens: 4557.8 lumens  
Efficiency: N/A  
Efficacy: 67.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): 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

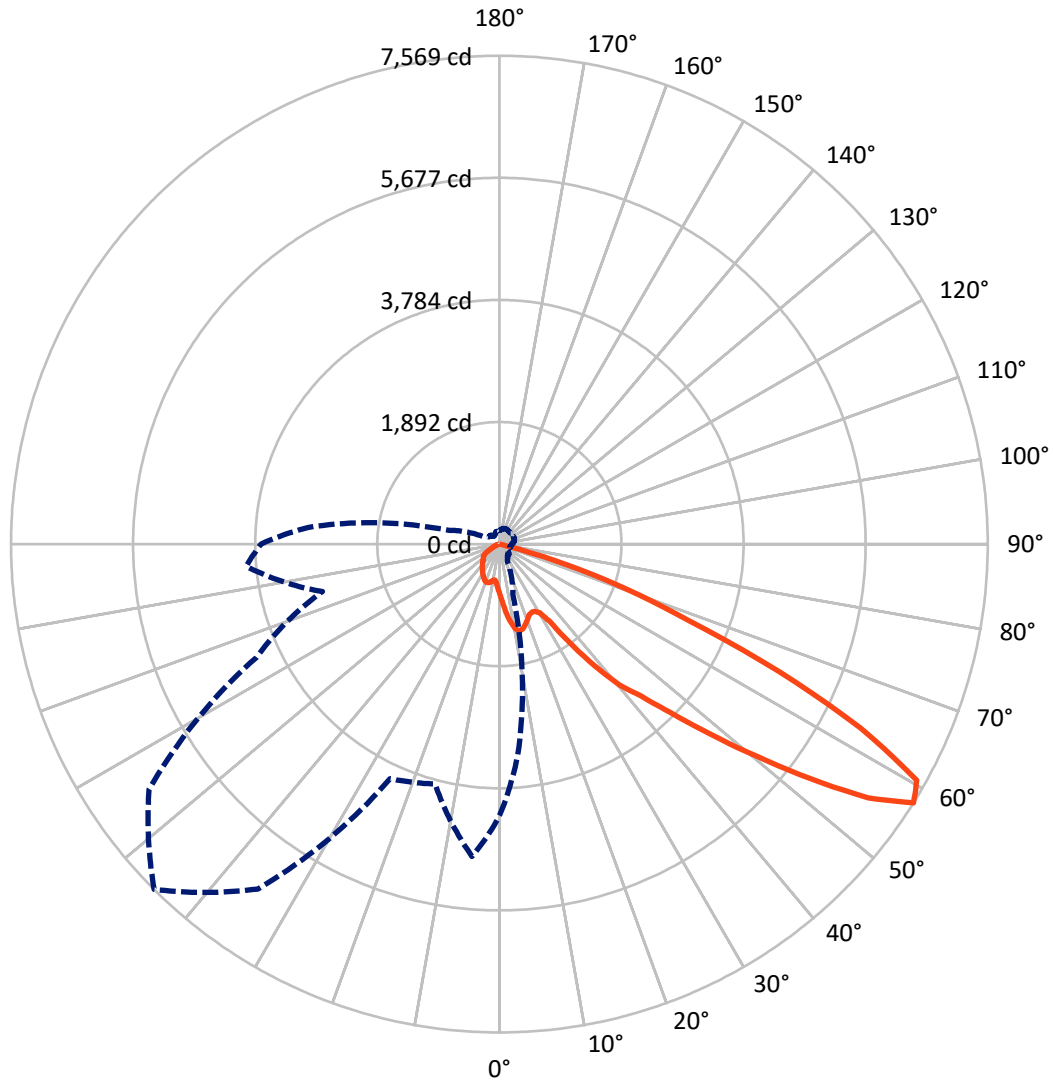
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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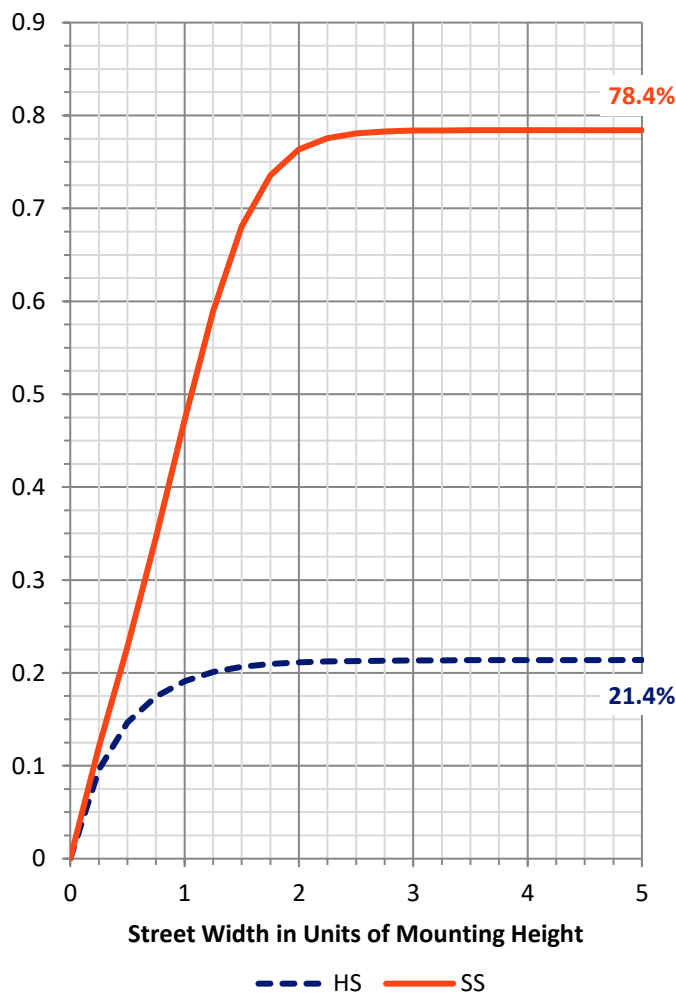
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	981.9	0.0	981.9
	% Fixture	21.5	0.0	21.5
<b>Street Side</b>	Lumens	3575.9	0.0	3575.9
	% Fixture	78.5	0.0	78.5
<b>Total</b>	Lumens	4557.8	0.0	4557.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.5	1.7
10°-20°	251.9	5.5
20°-30°	408.8	9.0
30°-40°	627.3	13.8
40°-50°	1001.9	22.0
50°-60°	1402.9	30.8
60°-70°	719.3	15.8
70°-80°	69.2	1.5
80°-90°	0.0	0.0
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°	4557.8	100.0
0°-180°	4557.8	100.0

**Coefficient of Utilization**



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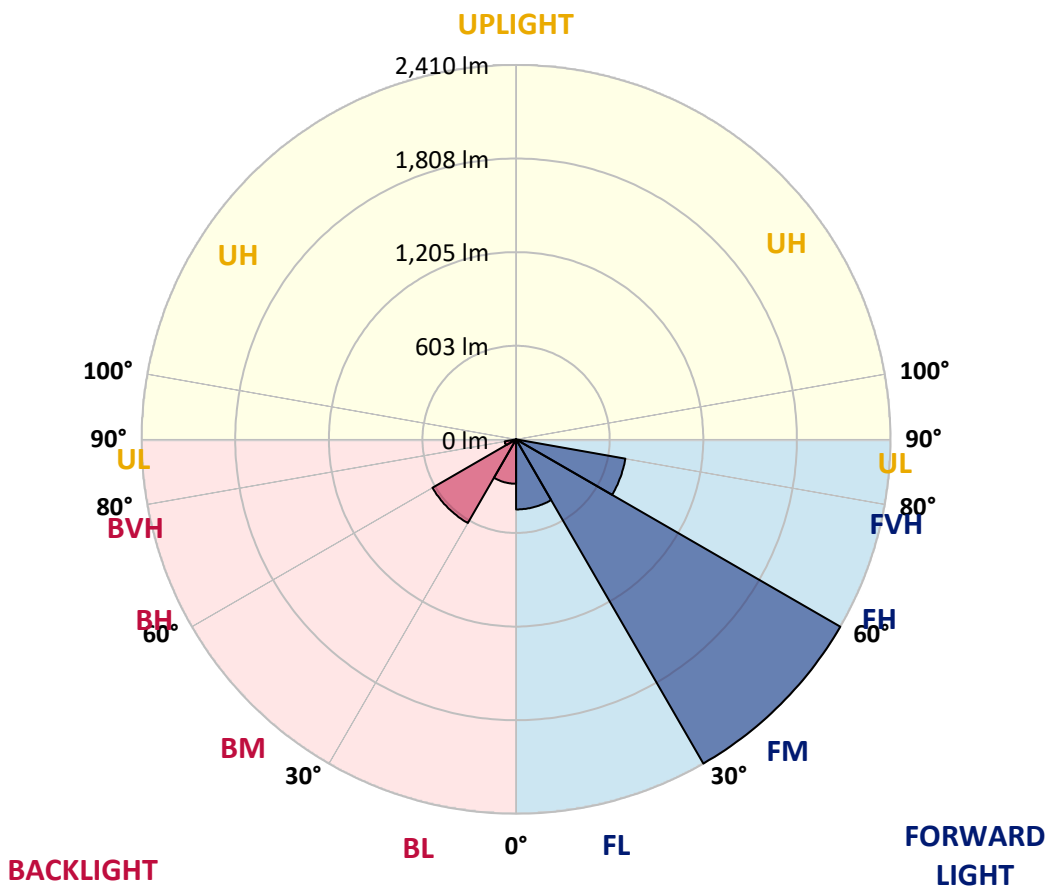
CATALOG NUMBER: GWS-SA1F-760-U-SLL-W-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	451.3	9.9			
FM (30°-60°)	2410.3	52.9			
FH (60°-80°)	714.4	15.7			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	285.9	6.3	B1/500		
BM (30°-60°)	621.8	13.6	B1/1000		
BH (60°-80°)	74.2	1.6	B0/110		G0/110
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	774.4	774.4	774.4	774.4	774.4	774.4	774.4	774.4	774.4	774.4	774.4
2.5°	860.4	858.5	852.4	831.7	818.9	798.8	784.2	765.3	744.6	731.8	719.0
5°	951.7	946.9	930.4	882.9	846.3	806.7	775.0	740.3	703.1	678.8	656.2
7.5°	1039.5	1032.2	1010.2	929.8	874.4	817.7	772.6	722.0	669.6	633.1	605.0
10°	1125.4	1109.0	1074.2	975.5	900.6	832.3	779.3	721.4	659.9	613.6	582.5
12.5°	1196.1	1183.9	1136.4	1018.8	922.5	835.4	770.2	716.6	675.1	644.0	615.4
15°	1257.0	1243.6	1198.5	1057.8	941.4	823.2	731.8	684.9	691.6	703.8	679.4
17.5°	1313.1	1299.1	1250.3	1090.1	948.7	793.3	678.2	655.6	692.8	738.5	729.3
20°	1371.0	1355.1	1295.4	1116.3	946.3	746.4	623.9	630.6	683.0	735.4	740.3
22.5°	1438.6	1422.1	1352.7	1149.8	944.4	690.4	577.0	608.7	664.8	709.2	717.8
25°	1528.2	1508.7	1432.5	1199.1	949.3	639.2	543.5	587.4	633.7	673.9	678.8
27.5°	1646.4	1621.4	1524.5	1260.1	959.7	599.0	528.9	558.1	594.1	630.0	634.3
30°	1800.5	1768.8	1629.9	1313.1	954.8	570.9	519.1	528.9	550.2	579.5	580.1
32.5°	1980.9	1937.6	1748.1	1358.8	912.8	550.2	505.7	499.0	503.9	526.4	530.7
35°	2192.9	2136.9	1878.5	1402.0	836.0	510.0	481.4	458.8	457.0	468.0	478.3
37.5°	2436.0	2369.0	2043.0	1457.5	745.2	468.0	445.4	422.9	413.1	418.6	434.4
40°	2660.3	2585.9	2214.9	1524.5	652.6	430.2	403.4	380.2	368.6	370.5	390.0
42.5°	2923.5	2846.7	2425.1	1612.2	575.8	404.6	359.5	335.7	320.5	329.0	351.6
45°	3323.2	3236.1	2731.6	1688.4	514.9	398.5	321.1	287.6	280.3	294.9	321.7
47.5°	3869.1	3762.5	3152.6	1734.7	463.1	404.0	294.3	248.6	250.4	266.9	293.7
50°	4410.8	4295.7	3639.4	1673.8	420.4	393.0	280.9	218.1	229.7	244.3	268.7
52.5°	4783.1	4633.2	3876.5	1497.7	381.4	351.6	279.7	189.5	211.4	216.3	237.0
55°	4797.7	4613.1	3755.2	1180.9	328.4	296.7	266.9	165.7	191.3	193.2	210.8
57.5°	4205.5	4038.5	3281.8	811.0	291.9	217.5	212.7	145.0	157.2	172.4	183.4
60°	3199.5	3057.5	2454.3	371.7	221.8	138.3	145.6	124.9	117.6	140.1	151.1
62.5°	1959.6	1868.8	1472.1	164.5	141.4	73.7	88.4	99.3	88.4	96.9	106.0
65°	778.1	737.9	558.7	70.1	57.9	37.2	40.2	57.9	62.2	68.2	76.8
67.5°	135.3	128.0	93.8	31.1	23.8	22.5	19.5	26.8	37.8	42.0	48.7
70°	17.7	17.1	15.2	12.8	12.2	11.0	8.5	17.1	25.6	26.8	31.1
72.5°	4.3	3.7	3.7	3.0	3.7	1.2	1.2	9.1	18.3	18.9	21.9
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	11.6	12.8	15.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	774.4	774.4	774.4	774.4	774.4	774.4	774.4	774.4	774.4	774.4	774.4
2.5°	708.6	696.4	692.2	686.1	678.2	680.6	669.6	666.0	671.5	678.8	676.9
5°	644.0	630.6	621.5	607.5	605.0	599.6	595.9	591.0	597.1	605.7	607.5
7.5°	592.9	581.3	572.1	567.9	564.8	562.4	555.1	551.4	551.4	555.1	558.1
10°	570.9	562.4	560.6	561.8	566.7	566.1	559.4	554.5	548.4	545.3	549.0
12.5°	601.4	587.4	584.9	585.6	591.6	591.0	583.7	577.6	576.4	577.6	589.2
15°	653.2	631.9	616.0	613.0	616.0	614.8	609.3	605.7	607.5	625.2	644.7
17.5°	699.5	666.6	638.0	627.0	626.4	624.5	619.1	617.8	627.0	659.9	688.5
20°	712.9	680.6	639.8	625.8	622.7	620.9	614.8	616.6	628.2	667.8	692.2
22.5°	695.2	664.2	621.5	607.5	605.0	604.4	598.3	600.8	610.5	645.3	665.4
25°	661.7	635.5	591.0	578.8	578.8	577.6	572.1	573.4	579.5	609.9	629.4
27.5°	620.9	595.9	558.7	546.6	548.4	550.2	543.5	541.7	546.6	575.2	586.8
30°	574.0	556.3	527.1	516.1	515.5	522.8	513.7	511.2	517.9	540.5	542.9
32.5°	528.3	519.7	499.0	490.5	491.1	492.3	487.5	487.5	493.5	505.7	505.1
35°	483.8	478.3	474.7	468.6	468.0	465.5	465.5	466.7	473.4	477.7	469.8
37.5°	441.1	446.6	450.9	444.8	439.9	439.9	439.9	445.4	451.5	449.7	436.3
40°	403.4	414.9	428.3	421.6	410.1	409.5	411.9	421.0	430.2	419.2	407.0
42.5°	371.1	385.7	404.6	400.9	388.1	386.3	388.1	399.7	407.0	393.0	379.6
45°	339.4	357.7	380.2	380.2	366.2	364.4	365.0	380.2	384.5	368.0	351.0
47.5°	312.6	332.7	356.4	356.4	344.9	341.2	344.3	360.1	363.2	340.0	324.2
50°	287.0	308.9	335.1	333.3	325.4	322.3	327.8	344.9	341.2	315.6	299.2
52.5°	254.7	277.8	313.8	315.6	311.4	312.0	318.7	329.6	319.3	288.2	274.2
55°	225.4	249.2	285.2	294.9	294.9	294.3	297.3	305.9	297.3	260.2	243.1
57.5°	193.8	213.9	243.7	246.2	248.0	241.3	245.6	257.1	252.9	221.2	211.4
60°	159.0	176.1	193.2	195.0	187.1	173.0	181.0	194.4	197.4	173.7	162.7
62.5°	112.7	129.2	149.3	149.3	141.4	127.3	137.7	149.3	145.0	120.6	113.9
65°	84.1	99.3	114.6	121.3	114.6	104.8	112.7	121.3	114.6	94.4	84.7
67.5°	54.2	64.6	73.7	79.2	80.4	79.2	82.9	80.4	72.5	59.1	53.6
70°	32.9	38.4	43.3	48.1	51.8	53.6	55.4	50.0	42.0	34.7	32.9
72.5°	23.8	28.6	32.9	36.6	40.8	42.0	42.0	38.4	31.1	24.4	22.5
75°	16.5	20.7	24.4	26.8	30.5	31.7	31.7	28.6	23.2	17.7	15.8
77.5°	0.6	4.3	4.3	3.7	4.9	6.1	6.1	7.3	6.7	4.9	4.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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





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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	774.4	774.4	774.4	774.4	774.4	774.4	774.4	774.4	774.4	774.4	774.4
2.5°	680.6	702.5	708.6	731.2	751.3	771.4	795.8	810.4	832.3	847.6	856.1
5°	613.6	631.9	653.8	687.3	722.0	760.4	806.7	846.9	897.5	934.7	946.9
7.5°	564.8	588.6	614.2	656.2	703.8	754.9	820.1	885.9	963.3	1013.9	1046.2
10°	555.7	580.1	614.2	655.6	705.6	764.1	843.9	929.2	1026.1	1087.6	1124.2
12.5°	599.6	625.8	640.4	659.3	697.1	762.3	864.6	973.1	1087.0	1154.0	1193.0
15°	664.2	687.3	663.5	639.8	664.2	742.8	876.2	1009.6	1140.6	1218.0	1258.2
17.5°	708.6	710.5	658.7	608.1	614.8	707.4	880.5	1046.2	1197.9	1278.9	1321.0
20°	704.4	689.7	637.3	581.3	560.6	661.7	875.6	1078.5	1255.8	1340.5	1381.9
22.5°	671.5	654.4	609.9	555.1	514.9	607.5	867.1	1107.7	1308.8	1405.1	1444.1
25°	631.9	613.6	577.0	528.9	485.6	555.1	860.4	1147.9	1375.8	1489.2	1519.6
27.5°	585.6	569.7	538.6	503.9	473.4	515.5	858.5	1201.0	1456.9	1591.5	1612.9
30°	540.5	525.8	501.5	481.4	468.6	492.3	852.4	1257.6	1553.8	1709.1	1732.3
32.5°	497.2	482.6	467.3	464.3	464.9	483.8	831.7	1313.7	1668.9	1879.7	1896.8
35°	460.0	443.0	436.9	444.2	457.6	469.2	773.2	1360.0	1792.6	2065.6	2079.6
37.5°	424.7	407.6	407.0	424.7	439.3	446.6	704.4	1405.7	1959.6	2254.5	2272.1
40°	392.4	375.3	381.4	402.8	414.3	418.0	620.9	1475.1	2136.3	2453.7	2444.0
42.5°	365.0	347.3	351.0	378.4	388.7	398.5	544.1	1533.0	2306.3	2642.6	2639.5
45°	338.2	324.8	322.3	352.2	361.3	400.3	488.1	1577.5	2525.0	2883.3	2888.1
47.5°	312.0	301.6	302.2	315.0	337.6	409.5	440.5	1606.8	2842.4	3264.7	3180.0
50°	288.2	280.3	287.0	272.4	322.3	397.9	399.7	1600.7	3197.1	3630.3	3460.3
52.5°	262.0	260.2	263.2	227.9	298.0	351.0	361.3	1519.6	3363.4	3880.1	3783.2
55°	235.2	234.6	210.2	182.2	249.2	280.3	309.5	1268.0	3357.9	4012.9	4130.5
57.5°	203.5	198.6	159.6	148.7	193.8	195.0	282.1	830.5	2975.9	3694.9	3938.6
60°	154.2	150.5	117.0	120.6	135.3	124.9	224.8	413.7	2224.0	2878.4	3153.2
62.5°	106.6	101.8	87.1	93.2	87.1	71.3	137.7	204.7	1347.2	1817.6	2066.8
65°	78.0	72.5	59.7	51.2	40.8	40.8	52.4	78.6	521.6	772.6	931.6
67.5°	48.1	45.7	35.3	25.6	25.0	26.8	27.4	39.0	84.1	134.0	163.9
70°	31.1	28.6	23.8	16.5	15.2	15.8	16.5	18.3	21.3	23.2	28.0
72.5°	21.3	20.1	17.1	9.1	7.3	7.9	8.5	8.5	10.4	9.7	11.6
75°	15.2	14.0	12.2	4.3	2.4	3.0	3.7	3.0	3.7	2.4	3.0
77.5°	4.3	4.3	3.0	0.6	0.0	0.6	1.2	1.2	0.6	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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



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CATALOG NUMBER: GWS-SA1F-760-U-SLL-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	774.4	774.4	774.4	774.4	774.4	774.4	774.4	774.4	774.4	774.4
2.5°	878.0	892.0	897.5	889.6	896.3	885.3	881.1	864.6	863.4	860.4
5°	996.2	1027.9	1046.8	1058.4	1045.0	1030.3	1008.4	970.6	959.1	951.7
7.5°	1112.6	1162.0	1194.3	1209.5	1205.8	1176.0	1136.4	1073.0	1050.5	1039.5
10°	1213.8	1274.1	1313.1	1332.0	1324.0	1297.8	1241.2	1162.0	1132.1	1125.4
12.5°	1284.4	1339.9	1366.7	1383.1	1383.8	1373.4	1319.8	1240.0	1204.6	1196.1
15°	1328.9	1352.7	1353.3	1363.0	1380.1	1403.2	1378.3	1307.6	1269.8	1257.0
17.5°	1356.9	1330.7	1303.9	1306.4	1334.4	1395.9	1421.5	1367.3	1327.1	1313.1
20°	1377.0	1294.2	1244.2	1244.8	1273.5	1366.7	1451.4	1425.2	1383.8	1371.0
22.5°	1389.8	1261.9	1190.6	1188.8	1219.2	1332.0	1478.8	1494.0	1453.2	1438.6
25°	1416.0	1246.7	1158.3	1168.7	1195.5	1321.0	1516.0	1585.4	1547.7	1528.2
27.5°	1463.0	1261.9	1155.3	1179.0	1209.5	1353.3	1580.6	1707.3	1668.3	1646.4
30°	1544.0	1319.2	1202.2	1235.1	1271.6	1438.0	1689.0	1877.3	1821.2	1800.5
32.5°	1674.4	1438.0	1347.2	1417.9	1453.2	1576.9	1851.7	2068.0	2022.3	1980.9
35°	1854.1	1709.1	1698.8	1863.3	1854.8	1840.1	2051.6	2302.0	2233.1	2192.9
37.5°	2101.5	2145.4	2222.2	2385.5	2380.0	2268.5	2314.2	2523.2	2487.8	2436.0
40°	2410.4	2503.7	2634.1	2868.0	2794.9	2654.8	2636.5	2749.8	2721.2	2660.3
42.5°	2592.6	2753.5	3002.1	3212.3	3153.8	2908.9	2888.1	3052.7	2989.9	2923.5
45°	2677.3	2957.0	3444.5	3729.0	3551.7	3077.6	3069.7	3447.5	3412.2	3323.2
47.5°	2716.3	3162.3	3962.4	4393.2	4061.7	3225.7	3197.1	4020.3	3973.9	3869.1
50°	2759.6	3445.7	4586.3	5162.7	4677.7	3393.3	3414.0	4554.0	4534.5	4410.8
52.5°	2854.6	3745.5	5354.6	6042.6	5424.7	3655.9	3786.3	5057.3	4925.7	4783.1
55°	2997.2	4072.0	6154.1	6941.3	6187.0	4008.7	4189.0	5324.8	4955.5	4797.7
57.5°	2839.4	4153.7	6627.5	7568.9	6525.1	4009.9	3848.4	4861.1	4358.4	4205.5
60°	2253.2	3864.3	6445.3	7433.0	6236.9	3560.8	2946.6	3795.4	3301.9	3199.5
62.5°	1523.3	3240.9	5673.9	6286.3	5338.2	2801.0	1915.1	2468.3	2044.2	1959.6
65°	834.8	2417.8	4584.5	4755.7	4178.1	1956.5	985.3	1071.2	815.9	778.1
67.5°	230.3	1682.9	3373.2	3155.0	2931.4	1274.1	254.7	191.3	136.5	135.3
70°	57.9	1113.2	2021.1	2083.2	1797.5	815.9	48.7	23.2	18.3	17.7
72.5°	24.4	478.9	959.1	1102.2	920.1	377.8	17.7	6.7	5.5	4.3
75°	3.0	38.4	81.6	123.7	84.7	40.8	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	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
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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