

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: P631384

Luminaire Tested: GWS-SA1F-750-U-SLL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631384  
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-750-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) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

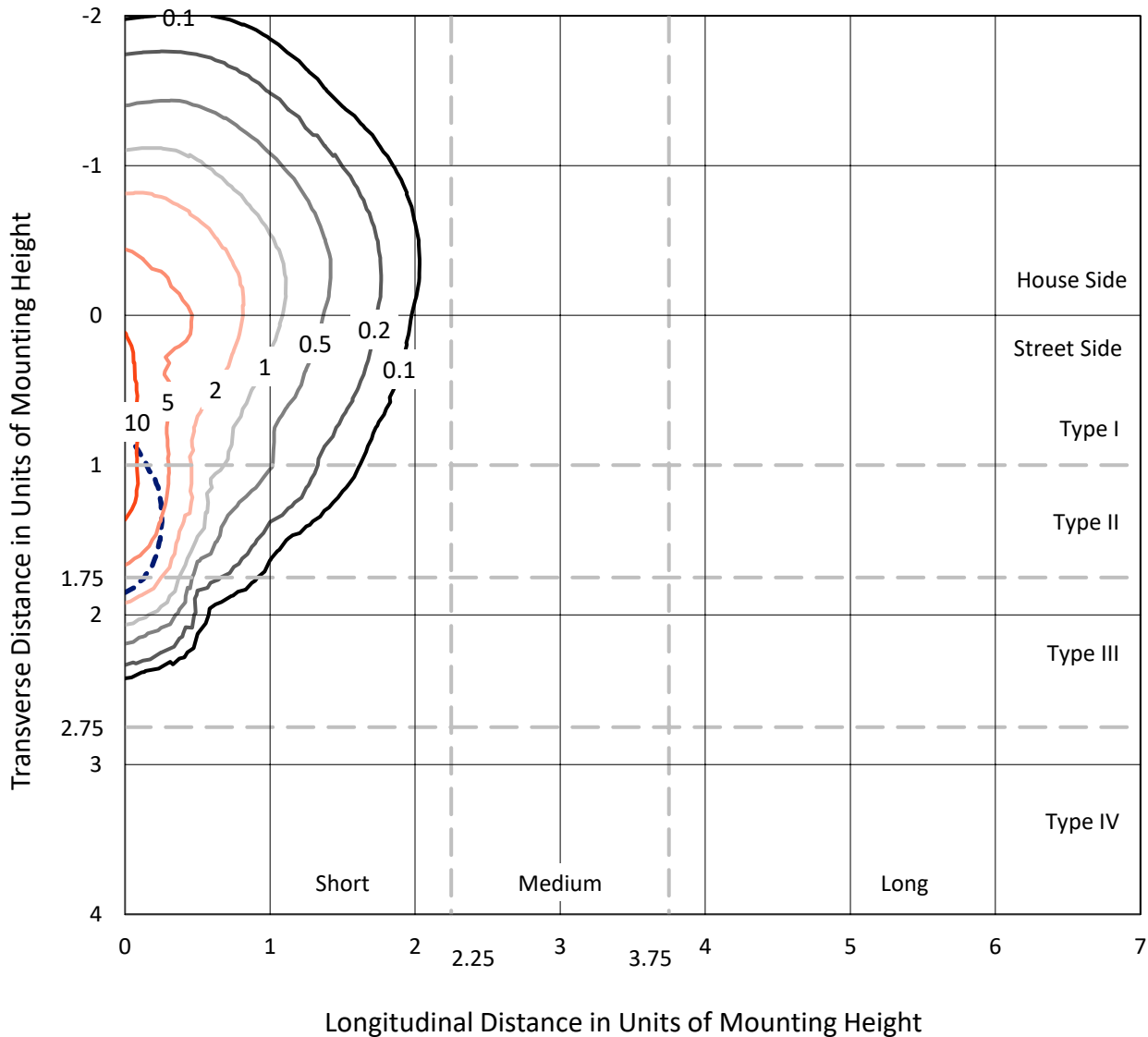
Lumens per Lamp: N/A  
Luminaire Lumens: 4621.1 lumens  
Efficiency: N/A  
Efficacy: 68.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): 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

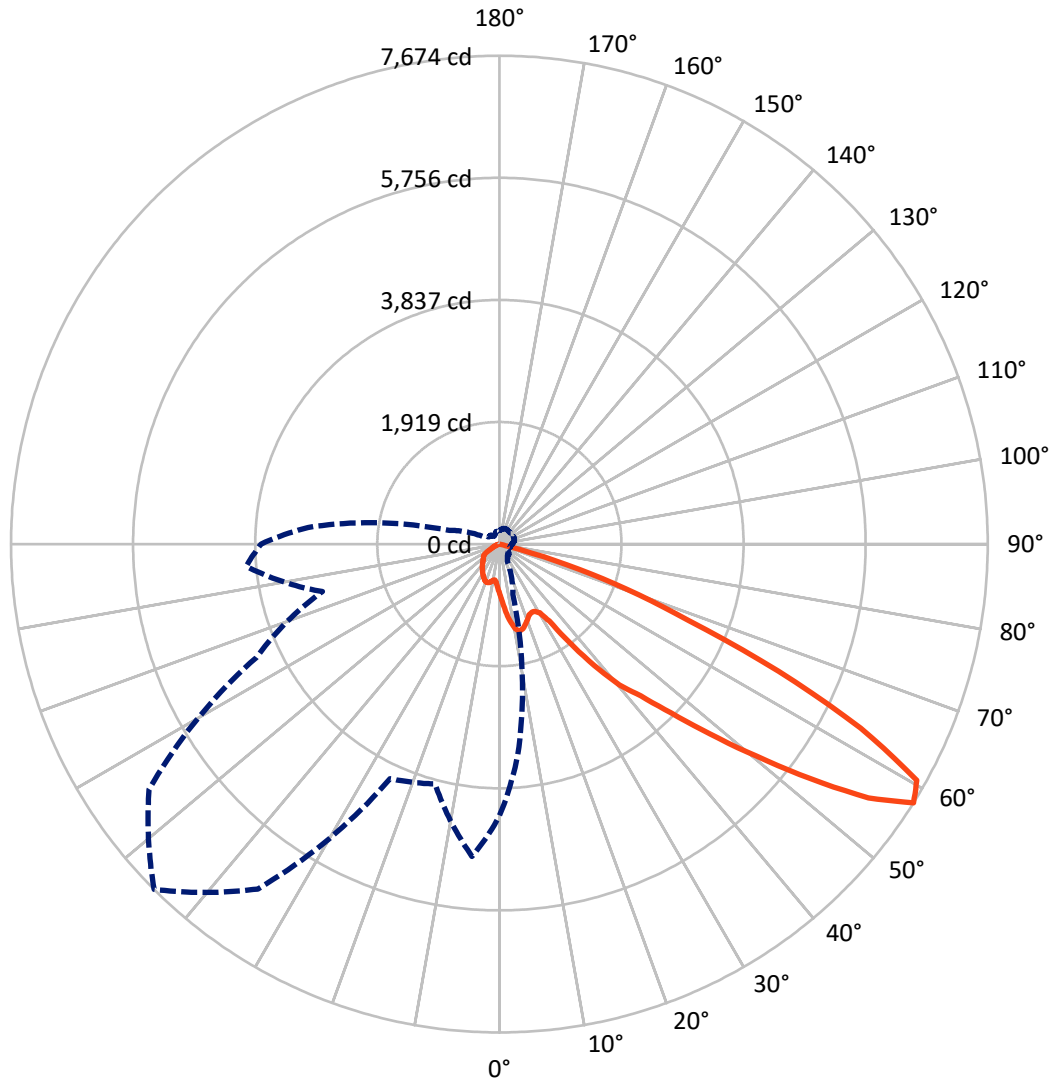
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.3 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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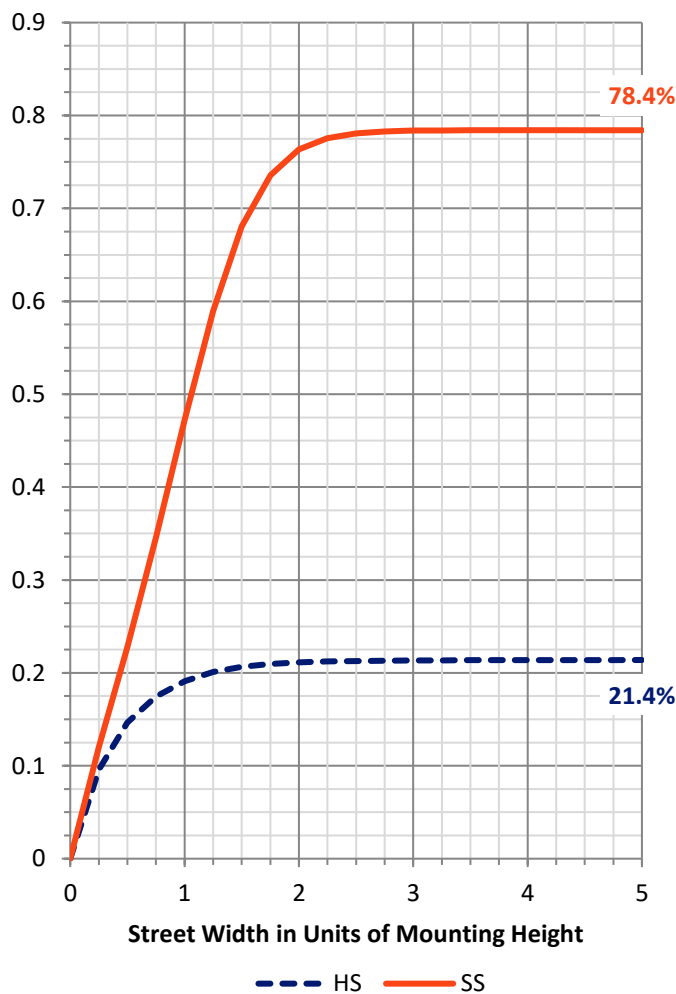
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	995.5	0.0	995.5
	% Fixture	21.5	0.0	21.5
<b>Street Side</b>	Lumens	3625.6	0.0	3625.6
	% Fixture	78.5	0.0	78.5
<b>Total</b>	Lumens	4621.1	0.0	4621.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.6	1.7
10°-20°	255.4	5.5
20°-30°	414.4	9.0
30°-40°	636.1	13.8
40°-50°	1015.8	22.0
50°-60°	1422.3	30.8
60°-70°	729.3	15.8
70°-80°	70.2	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°	4621.1	100.0
0°-180°	4621.1	100.0

**Coefficient of Utilization**



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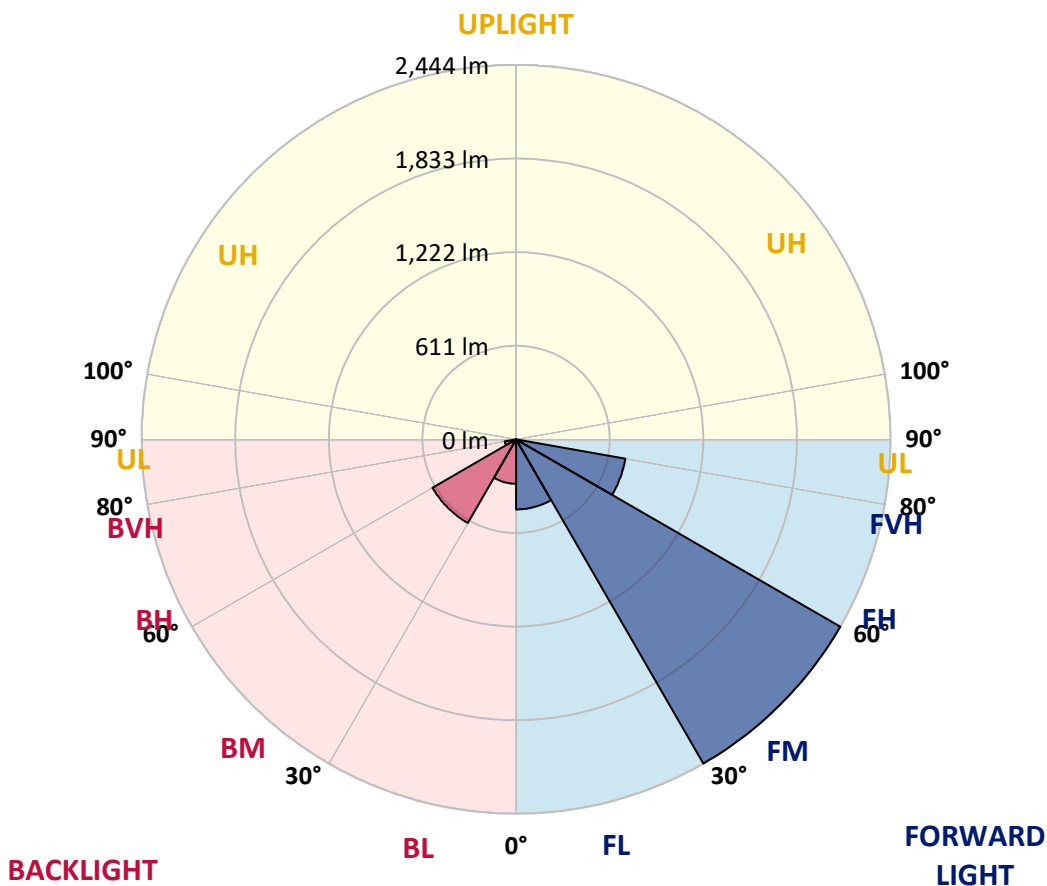
CATALOG NUMBER: GWS-SA1F-750-U-SLL-W-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	457.5	9.9			
FM (30°-60°)	2443.8	52.9			
FH (60°-80°)	724.3	15.7			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	289.9	6.3	B1/500		
BM (30°-60°)	630.5	13.6	B1/1000		
BH (60°-80°)	75.2	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°	785.2	785.2	785.2	785.2	785.2	785.2	785.2	785.2	785.2	785.2	785.2
2.5°	872.3	870.4	864.3	843.3	830.3	809.9	795.1	775.9	754.9	741.9	729.0
5°	965.0	960.0	943.3	895.2	858.1	817.9	785.8	750.6	712.9	688.2	665.3
7.5°	1053.9	1046.5	1024.3	942.7	886.5	829.1	783.3	732.1	678.9	641.9	613.5
10°	1141.0	1124.4	1089.1	989.1	913.1	843.9	790.1	731.4	669.1	622.1	590.6
12.5°	1212.7	1200.3	1152.2	1032.9	935.3	847.0	780.9	726.5	684.5	653.0	624.0
15°	1274.5	1260.9	1215.2	1072.5	954.5	834.6	741.9	694.4	701.2	713.5	688.8
17.5°	1331.3	1317.1	1267.7	1105.2	961.9	804.3	687.6	664.7	702.4	748.7	739.5
20°	1390.0	1373.9	1313.4	1131.8	959.4	756.8	632.6	639.4	692.5	745.7	750.6
22.5°	1458.6	1441.9	1371.5	1165.7	957.6	699.9	585.0	617.2	674.0	719.1	727.7
25°	1549.4	1529.6	1452.4	1215.8	962.5	648.0	551.1	595.5	642.5	683.3	688.2
27.5°	1669.2	1643.9	1545.7	1277.6	973.0	607.3	536.2	565.9	602.3	638.8	643.1
30°	1825.5	1793.4	1652.6	1331.3	968.1	578.9	526.3	536.2	557.9	587.5	588.1
32.5°	2008.4	1964.5	1772.4	1377.6	925.4	557.9	512.8	506.0	510.9	533.8	538.1
35°	2223.4	2166.5	1904.6	1421.5	847.6	517.1	488.0	465.2	463.3	474.5	485.0
37.5°	2469.9	2401.9	2071.4	1477.7	755.5	474.5	451.6	428.7	418.9	424.4	440.5
40°	2697.2	2621.8	2245.6	1545.7	661.6	436.1	409.0	385.5	373.8	375.6	395.4
42.5°	2964.1	2886.2	2458.7	1634.6	583.8	410.2	364.5	340.4	325.0	333.6	356.5
45°	3369.4	3281.0	2769.5	1711.9	522.0	404.0	325.6	291.6	284.2	299.0	326.2
47.5°	3922.9	3814.8	3196.4	1758.8	469.5	409.6	298.4	252.1	253.9	270.6	297.8
50°	4472.1	4355.3	3690.0	1697.0	426.3	398.5	284.8	221.2	232.9	247.7	272.4
52.5°	4849.5	4697.6	3930.3	1518.5	386.7	356.5	283.6	192.1	214.4	219.3	240.3
55°	4864.4	4677.2	3807.4	1197.2	333.0	300.9	270.6	168.0	194.0	195.8	213.8
57.5°	4263.9	4094.6	3327.3	822.3	295.9	220.5	215.6	147.0	159.4	174.8	186.0
60°	3243.9	3100.0	2488.4	376.8	224.9	140.2	147.6	126.6	119.2	142.1	153.2
62.5°	1986.8	1894.7	1492.5	166.8	143.3	74.8	89.6	100.7	89.6	98.2	107.5
65°	788.9	748.1	566.5	71.0	58.7	37.7	40.8	58.7	63.0	69.2	77.8
67.5°	137.1	129.7	95.1	31.5	24.1	22.9	19.8	27.2	38.3	42.6	49.4
70°	17.9	17.3	15.4	13.0	12.4	11.1	8.6	17.3	25.9	27.2	31.5
72.5°	4.3	3.7	3.7	3.1	3.7	1.2	1.2	9.3	18.5	19.2	22.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	11.7	13.0	15.4
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°	785.2	785.2	785.2	785.2	785.2	785.2	785.2	785.2	785.2	785.2	785.2
2.5°	718.5	706.1	701.8	695.6	687.6	690.1	678.9	675.2	680.8	688.2	686.3
5°	653.0	639.4	630.1	615.9	613.5	607.9	604.2	599.2	605.4	614.1	615.9
7.5°	601.1	589.4	580.1	575.8	572.7	570.2	562.8	559.1	559.1	562.8	565.9
10°	578.9	570.2	568.4	569.6	574.5	573.9	567.1	562.2	556.0	552.9	556.6
12.5°	609.7	595.5	593.1	593.7	599.9	599.2	591.8	585.7	584.4	585.7	597.4
15°	662.3	640.6	624.6	621.5	624.6	623.3	617.8	614.1	615.9	633.8	653.6
17.5°	709.2	675.8	646.8	635.7	635.1	633.2	627.7	626.4	635.7	669.1	698.1
20°	722.8	690.1	648.7	634.5	631.4	629.5	623.3	625.2	636.9	677.1	701.8
22.5°	704.9	673.4	630.1	615.9	613.5	612.8	606.7	609.1	619.0	654.2	674.6
25°	670.9	644.3	599.2	586.9	586.9	585.7	580.1	581.3	587.5	618.4	638.2
27.5°	629.5	604.2	566.5	554.1	556.0	557.9	551.1	549.2	554.1	583.2	594.9
30°	581.9	564.0	534.4	523.3	522.6	530.1	520.8	518.3	525.1	548.0	550.4
32.5°	535.6	527.0	506.0	497.3	497.9	499.2	494.2	494.2	500.4	512.8	512.1
35°	490.5	485.0	481.2	475.1	474.5	472.0	472.0	473.2	480.0	484.3	476.3
37.5°	447.3	452.8	457.2	451.0	446.0	446.0	446.0	451.6	457.8	455.9	442.3
40°	409.0	420.7	434.3	427.5	415.8	415.1	417.6	426.9	436.1	425.0	412.7
42.5°	376.2	391.1	410.2	406.5	393.5	391.7	393.5	405.3	412.7	398.5	384.9
45°	344.1	362.6	385.5	385.5	371.3	369.4	370.0	385.5	389.8	373.1	355.8
47.5°	316.9	337.3	361.4	361.4	349.7	346.0	349.0	365.1	368.2	344.7	328.7
50°	291.0	313.2	339.8	337.9	329.9	326.8	332.4	349.7	346.0	320.0	303.3
52.5°	258.2	281.7	318.2	320.0	315.7	316.3	323.1	334.2	323.7	292.2	278.0
55°	228.6	252.7	289.1	299.0	299.0	298.4	301.5	310.1	301.5	263.8	246.5
57.5°	196.5	216.8	247.1	249.6	251.4	244.6	249.0	260.7	256.4	224.3	214.4
60°	161.2	178.5	195.8	197.7	189.7	175.4	183.5	197.1	200.2	176.1	164.9
62.5°	114.3	131.0	151.4	151.4	143.3	129.1	139.6	151.4	147.0	122.3	115.5
65°	85.3	100.7	116.1	122.9	116.1	106.3	114.3	122.9	116.1	95.8	85.9
67.5°	55.0	65.5	74.8	80.3	81.5	80.3	84.0	81.5	73.5	59.9	54.4
70°	33.4	38.9	43.9	48.8	52.5	54.4	56.2	50.7	42.6	35.2	33.4
72.5°	24.1	29.0	33.4	37.1	41.4	42.6	42.6	38.9	31.5	24.7	22.9
75°	16.7	21.0	24.7	27.2	30.9	32.1	32.1	29.0	23.5	17.9	16.1
77.5°	0.6	4.3	4.3	3.7	4.9	6.2	6.2	7.4	6.8	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°	785.2	785.2	785.2	785.2	785.2	785.2	785.2	785.2	785.2	785.2	785.2
2.5°	690.1	712.3	718.5	741.3	761.7	782.1	806.8	821.6	843.9	859.3	868.0
5°	622.1	640.6	662.9	696.9	732.1	771.0	817.9	858.7	910.0	947.7	960.0
7.5°	572.7	596.8	622.7	665.3	713.5	765.4	831.5	898.2	976.7	1028.0	1060.7
10°	563.4	588.1	622.7	664.7	715.4	774.7	855.6	942.1	1040.3	1102.7	1139.8
12.5°	607.9	634.5	649.3	668.4	706.7	772.8	876.6	986.6	1102.1	1170.1	1209.6
15°	673.4	696.9	672.8	648.7	673.4	753.1	888.4	1023.7	1156.5	1234.9	1275.7
17.5°	718.5	720.3	667.8	616.5	623.3	717.2	892.7	1060.7	1214.5	1296.7	1339.3
20°	714.1	699.3	646.2	589.4	568.4	670.9	887.7	1093.5	1273.2	1359.1	1401.1
22.5°	680.8	663.5	618.4	562.8	522.0	615.9	879.1	1123.1	1327.0	1424.6	1464.1
25°	640.6	622.1	585.0	536.2	492.4	562.8	872.3	1163.9	1394.9	1509.8	1540.7
27.5°	593.7	577.6	546.1	510.9	480.0	522.6	870.4	1217.6	1477.1	1613.6	1635.3
30°	548.0	533.1	508.4	488.0	475.1	499.2	864.3	1275.1	1575.3	1732.9	1756.3
32.5°	504.1	489.3	473.8	470.7	471.4	490.5	843.3	1331.9	1692.1	1905.8	1923.1
35°	466.4	449.1	442.9	450.4	463.9	475.7	784.0	1378.9	1817.5	2094.3	2108.5
37.5°	430.6	413.3	412.7	430.6	445.4	452.8	714.1	1425.2	1986.8	2285.8	2303.7
40°	397.8	380.6	386.7	408.3	420.1	423.8	629.5	1495.6	2165.9	2487.8	2477.9
42.5°	370.0	352.1	355.8	383.6	394.1	404.0	551.7	1554.3	2338.3	2679.3	2676.2
45°	342.9	329.3	326.8	357.1	366.3	405.9	494.8	1599.4	2560.1	2923.3	2928.3
47.5°	316.3	305.8	306.4	319.4	342.2	415.1	446.7	1629.1	2881.9	3310.0	3224.2
50°	292.2	284.2	291.0	276.1	326.8	403.4	405.3	1622.9	3241.5	3680.7	3508.4
52.5°	265.6	263.8	266.9	231.0	302.1	355.8	366.3	1540.7	3410.1	3934.0	3835.8
55°	238.5	237.8	213.1	184.7	252.7	284.2	313.8	1285.6	3404.6	4068.7	4187.9
57.5°	206.3	201.4	161.9	150.7	196.5	197.7	286.0	842.0	3017.2	3746.2	3993.3
60°	156.3	152.6	118.6	122.3	137.1	126.6	228.0	419.5	2254.9	2918.4	3197.0
62.5°	108.1	103.2	88.3	94.5	88.3	72.3	139.6	207.6	1365.9	1842.8	2095.5
65°	79.1	73.5	60.5	51.9	41.4	41.4	53.1	79.7	528.8	783.3	944.6
67.5°	48.8	46.3	35.8	25.9	25.3	27.2	27.8	39.5	85.3	135.9	166.2
70°	31.5	29.0	24.1	16.7	15.4	16.1	16.7	18.5	21.6	23.5	28.4
72.5°	21.6	20.4	17.3	9.3	7.4	8.0	8.6	8.6	10.5	9.9	11.7
75°	15.4	14.2	12.4	4.3	2.5	3.1	3.7	3.1	3.7	2.5	3.1
77.5°	4.3	4.3	3.1	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-750-U-SLL-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	785.2	785.2	785.2	785.2	785.2	785.2	785.2	785.2	785.2	785.2
2.5°	890.2	904.4	910.0	902.0	908.7	897.6	893.3	876.6	875.4	872.3
5°	1010.1	1042.2	1061.3	1073.1	1059.5	1044.7	1022.4	984.1	972.4	965.0
7.5°	1128.1	1178.1	1210.8	1226.3	1222.6	1192.3	1152.2	1087.9	1065.0	1053.9
10°	1230.6	1291.8	1331.3	1350.5	1342.4	1315.9	1258.4	1178.1	1147.8	1141.0
12.5°	1302.3	1358.5	1385.7	1402.4	1403.0	1392.5	1338.1	1257.2	1221.3	1212.7
15°	1347.4	1371.5	1372.1	1382.0	1399.3	1422.7	1397.4	1325.7	1287.4	1274.5
17.5°	1375.8	1349.2	1322.0	1324.5	1352.9	1415.3	1441.3	1386.3	1345.5	1331.3
20°	1396.2	1312.2	1261.5	1262.1	1291.2	1385.7	1471.5	1445.0	1403.0	1390.0
22.5°	1409.1	1279.4	1207.1	1205.3	1236.2	1350.5	1499.3	1514.8	1473.4	1458.6
25°	1435.7	1264.0	1174.4	1184.9	1212.1	1339.3	1537.0	1607.5	1569.2	1549.4
27.5°	1483.3	1279.4	1171.3	1195.4	1226.3	1372.1	1602.5	1731.0	1691.5	1669.2
30°	1565.4	1337.5	1218.9	1252.2	1289.3	1458.0	1712.5	1903.4	1846.5	1825.5
32.5°	1697.6	1458.0	1365.9	1437.6	1473.4	1598.8	1877.4	2096.7	2050.4	2008.4
35°	1879.9	1732.9	1722.4	1889.2	1880.5	1865.7	2080.1	2334.0	2264.1	2223.4
37.5°	2130.7	2175.2	2253.0	2418.6	2413.0	2300.0	2346.3	2558.2	2522.4	2469.9
40°	2443.9	2538.4	2670.6	2907.9	2833.7	2691.7	2673.1	2788.0	2759.0	2697.2
42.5°	2628.6	2791.7	3043.8	3256.9	3197.6	2949.3	2928.3	3095.1	3031.4	2964.1
45°	2714.5	2998.1	3492.3	3780.8	3601.0	3120.4	3112.4	3495.4	3459.5	3369.4
47.5°	2754.0	3206.3	4017.4	4454.2	4118.1	3270.5	3241.5	4076.1	4029.1	3922.9
50°	2797.9	3493.5	4650.0	5234.4	4742.7	3440.4	3461.4	4617.3	4597.5	4472.1
52.5°	2894.3	3797.5	5429.0	6126.5	5500.1	3706.7	3838.9	5127.5	4994.1	4849.5
55°	3038.8	4128.6	6239.5	7037.7	6272.9	4064.3	4247.2	5398.7	5024.4	4864.4
57.5°	2878.8	4211.4	6719.6	7674.0	6615.8	4065.6	3901.9	4928.6	4419.0	4263.9
60°	2284.5	3917.9	6534.8	7536.3	6323.6	3610.3	2987.6	3848.1	3347.7	3243.9
62.5°	1544.4	3286.0	5752.7	6373.6	5412.3	2839.9	1941.7	2502.6	2072.6	1986.8
65°	846.4	2451.3	4648.1	4821.7	4236.1	1983.7	998.9	1086.1	827.2	788.9
67.5°	233.5	1706.3	3420.0	3198.8	2972.1	1291.8	258.2	194.0	138.4	137.1
70°	58.7	1128.7	2049.2	2112.2	1822.4	827.2	49.4	23.5	18.5	17.9
72.5°	24.7	485.6	972.4	1117.6	932.8	383.0	17.9	6.8	5.6	4.3
75°	3.1	38.9	82.8	125.4	85.9	41.4	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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