

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: P633861

Luminaire Tested: GWS-SA2F-750-U-SLL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633861
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-SA2F-750-U-SLL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10047.4 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

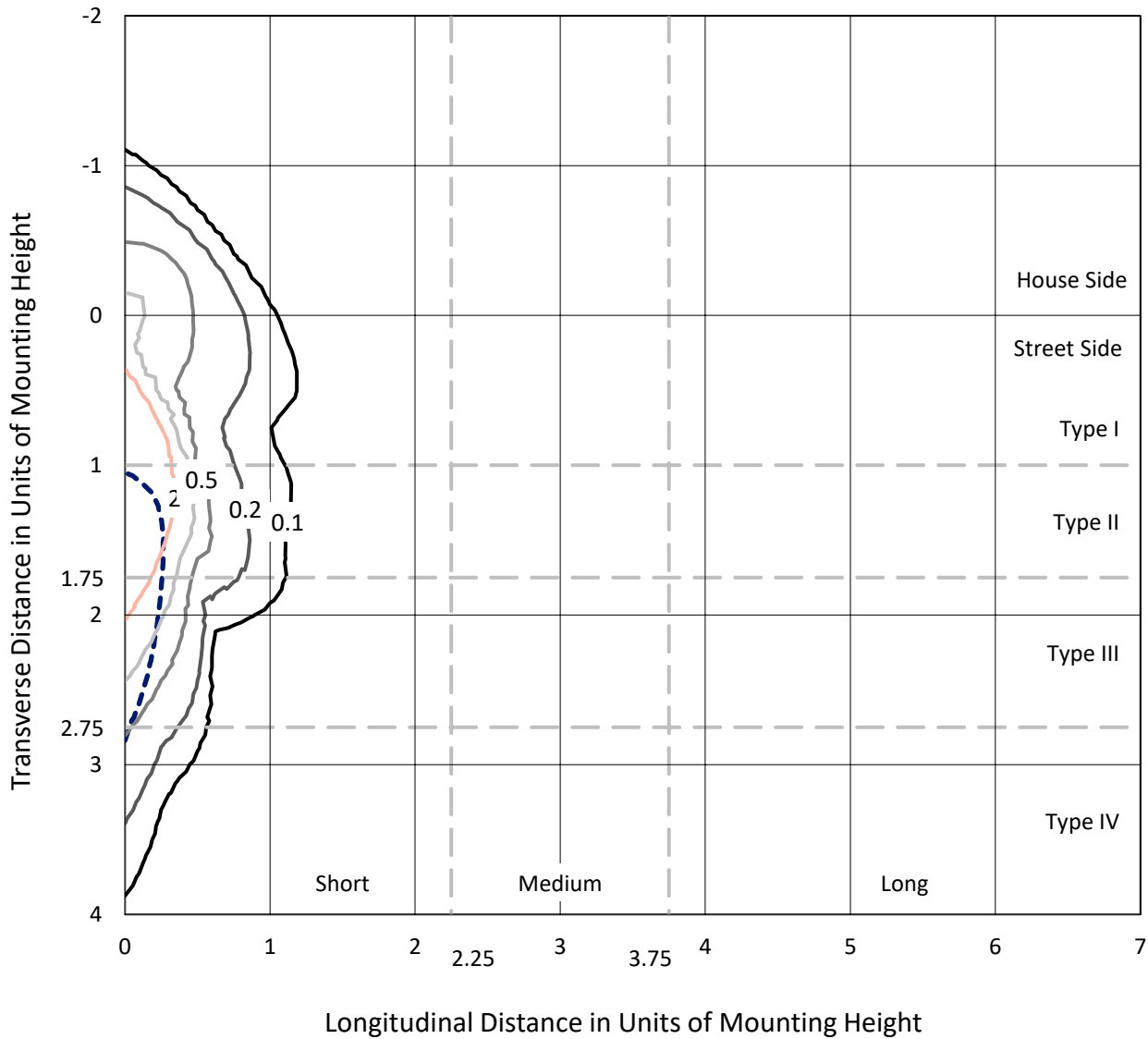
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

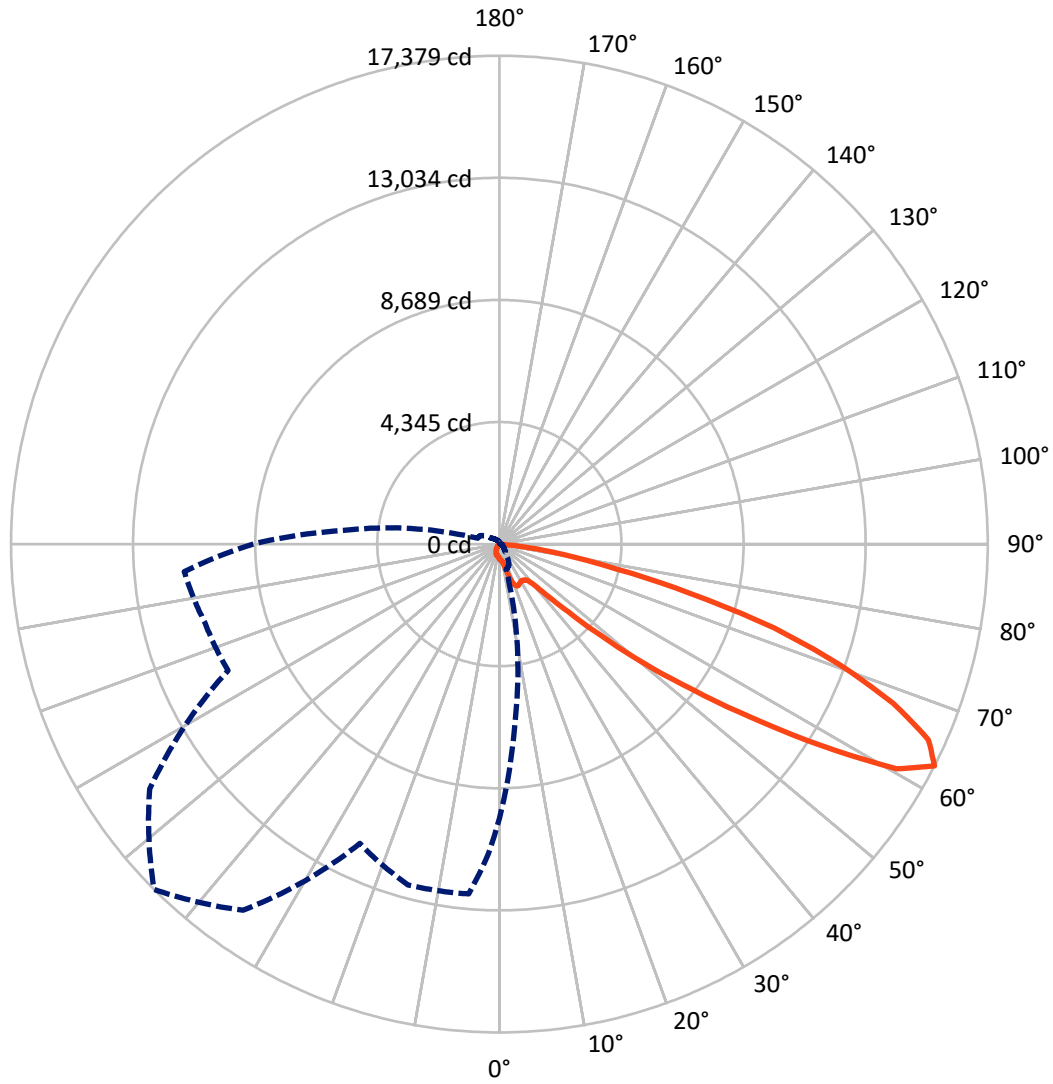
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.5 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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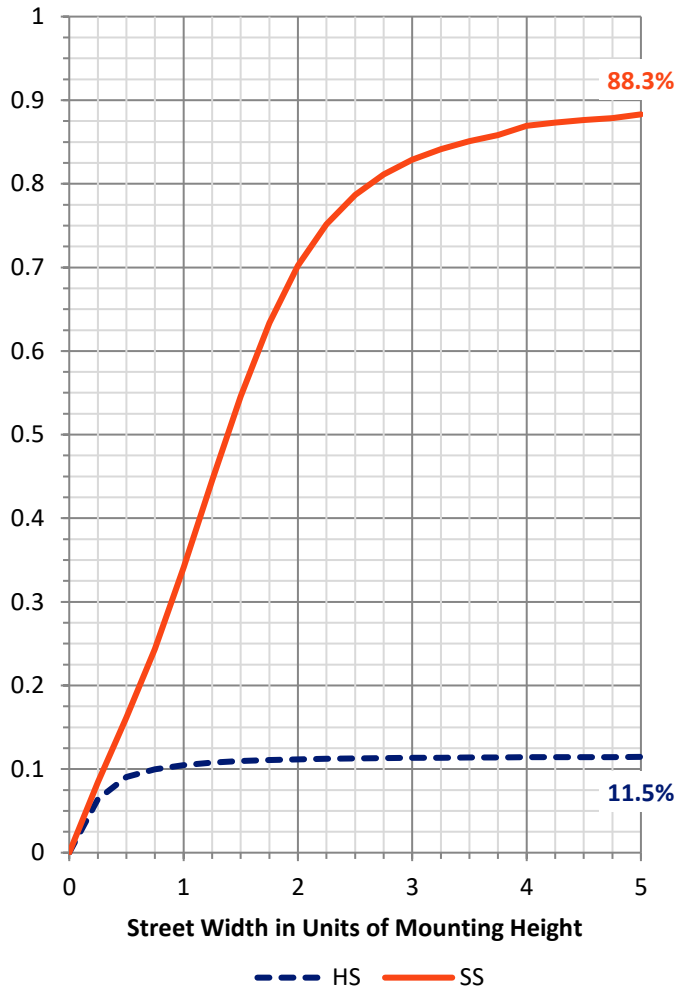
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1167.4	0.0	1167.4
	% Fixture	11.6	0.0	11.6
Street Side	Lumens	8880.0	0.0	8880.0
	% Fixture	88.4	0.0	88.4
Total	Lumens	10047.4	0.0	10047.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.0	0.4
10°-20°	154.2	1.5
20°-30°	348.4	3.5
30°-40°	600.2	6.0
40°-50°	1132.3	11.3
50°-60°	2528.0	25.2
60°-70°	3381.2	33.7
70°-80°	1695.6	16.9
80°-90°	162.5	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°	10047.4	100.0
0°-180°	10047.4	100.0

Coefficient of Utilization



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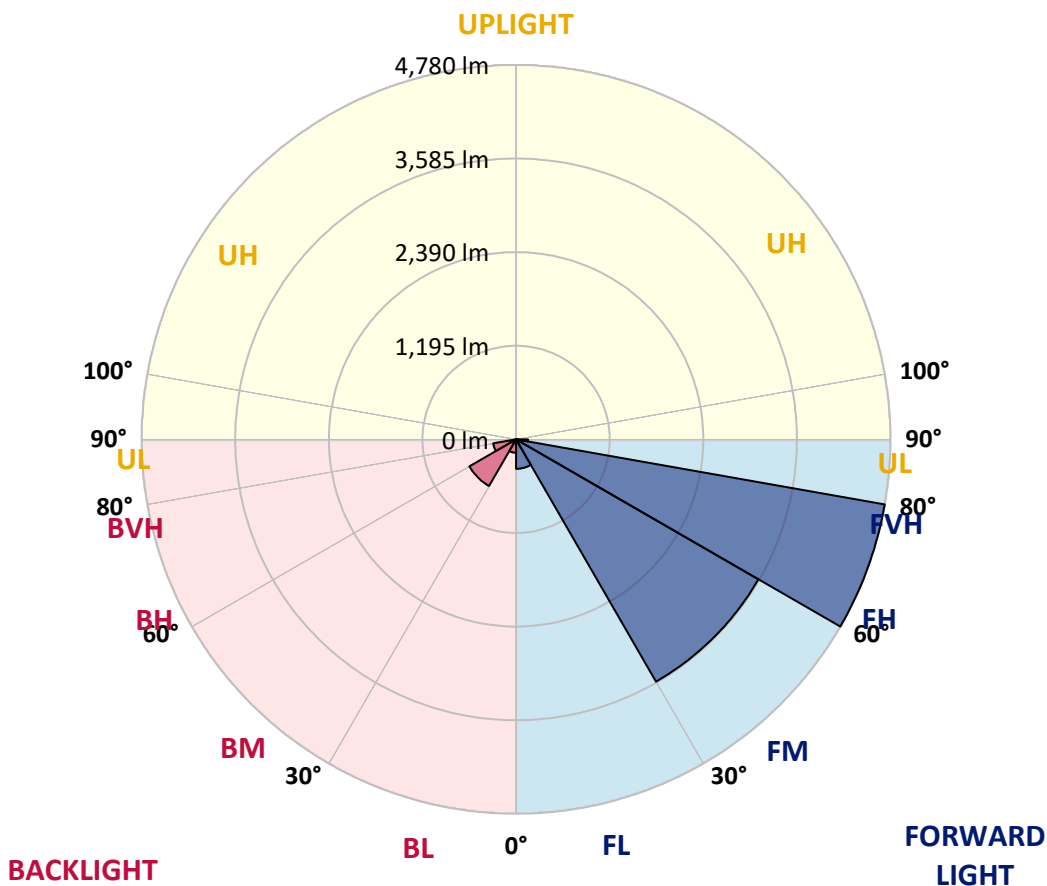
CATALOG NUMBER: GWS-SA2F-750-U-SLL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	376.3	3.7			
FM (30°-60°)	3572.2	35.6			
FH (60°-80°)	4779.9	47.6			G2/5000
FVH (80°-90°)	151.7	1.5			G2/225
BL (0°-30°)	171.4	1.7	B1/500		
BM (30°-60°)	688.4	6.9	B1/1000		
BH (60°-80°)	296.9	3.0	B1/500		G1/500
BVH (80°-90°)	10.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	521.1	521.1	521.1	521.1	521.1	521.1	521.1	521.1	521.1	521.1	521.1
2.5°	515.1	513.9	511.6	504.4	498.5	494.9	487.8	487.8	486.6	484.2	479.4
5°	498.5	493.7	489.0	475.9	461.6	453.3	443.7	442.6	442.6	440.2	439.0
7.5°	472.3	467.5	461.6	440.2	427.1	418.8	410.4	409.2	405.7	405.7	405.7
10°	458.0	450.9	441.4	417.6	404.5	397.3	391.4	387.8	385.5	381.9	380.7
12.5°	489.0	475.9	455.6	412.8	395.0	385.5	378.3	375.9	368.8	364.0	360.5
15°	585.3	553.2	512.7	423.5	391.4	377.1	367.6	362.8	356.9	348.6	342.6
17.5°	743.5	697.1	629.3	458.0	387.8	370.0	358.1	349.8	341.4	331.9	324.8
20°	962.4	893.4	812.5	521.1	387.8	361.7	347.4	336.7	324.8	314.1	305.7
22.5°	1240.8	1171.8	1033.8	628.1	392.6	351.0	334.3	320.0	305.7	296.2	286.7
25°	1552.5	1455.0	1326.5	757.8	405.7	336.7	318.8	304.6	291.5	279.6	268.9
27.5°	1899.9	1794.0	1622.7	942.2	434.2	322.4	302.2	289.1	277.2	265.3	251.0
30°	2219.9	2156.9	1982.0	1163.5	480.6	312.9	289.1	277.2	265.3	249.8	236.7
32.5°	2604.2	2492.3	2348.4	1415.7	542.5	303.4	278.4	261.7	252.2	237.9	223.7
35°	2990.8	2895.6	2706.5	1726.2	611.5	293.8	265.3	249.8	241.5	224.8	209.4
37.5°	3389.4	3367.9	3181.2	2070.0	679.3	283.1	249.8	240.3	232.0	212.9	195.1
40°	3781.9	3742.7	3570.2	2462.6	720.9	271.2	236.7	230.8	221.3	199.9	179.6
42.5°	4157.9	4128.1	3960.4	2838.5	715.0	260.5	223.7	216.5	209.4	188.0	163.0
45°	4619.5	4570.7	4358.9	3116.9	654.3	272.4	210.6	198.7	197.5	177.3	146.3
47.5°	5483.2	5322.6	4963.3	3331.1	593.6	303.4	196.3	182.0	190.3	166.6	129.7
50°	6693.0	6503.9	5984.0	3497.6	592.5	343.8	193.9	166.6	184.4	158.2	115.4
52.5°	7908.9	7575.8	6944.1	3586.8	636.5	373.6	215.3	151.1	177.3	149.9	104.7
55°	9073.6	8382.4	7346.2	3291.8	671.0	405.7	254.6	142.8	164.2	140.4	98.7
57.5°	10183.5	9030.7	7521.1	2604.2	786.4	418.8	278.4	146.3	145.1	128.5	94.0
60°	10335.8	8999.8	7167.7	1514.4	867.3	396.2	268.9	163.0	127.3	114.2	85.7
62.5°	9760.0	8401.4	6362.3	944.6	805.4	387.8	239.1	185.6	115.4	101.1	74.9
65°	8885.6	7462.8	5304.7	609.1	610.3	430.7	209.4	182.0	108.3	89.2	64.2
67.5°	7518.7	6245.7	4179.3	408.1	345.0	367.6	183.2	124.9	105.9	76.1	50.0
70°	5487.9	4445.8	2720.8	272.4	205.8	293.8	153.5	89.2	99.9	63.1	35.7
72.5°	4011.5	2987.2	1519.2	178.4	116.6	171.3	113.0	64.2	77.3	46.4	25.0
75°	2887.3	2055.7	867.3	114.2	77.3	94.0	73.8	44.0	50.0	36.9	22.6
77.5°	1389.5	1001.7	393.8	63.1	52.3	47.6	39.3	27.4	30.9	33.3	20.2
80°	52.3	39.3	29.7	30.9	33.3	21.4	17.8	14.3	17.8	22.6	10.7
82.5°	0.0	0.0	0.0	3.6	4.8	5.9	7.1	5.9	7.1	8.3	1.2
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°	521.1	521.1	521.1	521.1	521.1	521.1	521.1	521.1	521.1	521.1	521.1
2.5°	483.0	480.6	483.0	485.4	487.8	490.1	486.6	489.0	491.3	485.4	487.8
5°	444.9	443.7	450.9	454.5	459.2	461.6	459.2	459.2	458.0	450.9	450.9
7.5°	411.6	412.8	418.8	427.1	433.0	436.6	434.2	433.0	429.5	418.8	418.8
10°	386.6	386.6	396.2	403.3	411.6	415.2	412.8	409.2	405.7	395.0	393.8
12.5°	366.4	366.4	373.6	385.5	395.0	399.7	398.5	393.8	387.8	377.1	375.9
15°	347.4	346.2	356.9	367.6	380.7	386.6	384.3	380.7	370.0	360.5	358.1
17.5°	328.3	327.2	336.7	351.0	365.2	373.6	372.4	364.0	354.5	342.6	340.2
20°	309.3	306.9	318.8	333.1	347.4	355.7	353.3	346.2	334.3	322.4	320.0
22.5°	290.3	289.1	297.4	309.3	322.4	329.5	328.3	322.4	310.5	299.8	299.8
25°	268.9	268.9	274.8	283.1	292.7	296.2	297.4	295.0	287.9	282.0	282.0
27.5°	251.0	247.5	249.8	252.2	257.0	262.9	262.9	265.3	266.5	264.1	265.3
30°	236.7	230.8	227.2	222.5	220.1	222.5	224.8	233.2	241.5	246.3	248.6
32.5°	220.1	212.9	203.4	190.3	182.0	179.6	186.8	202.2	217.7	228.4	234.4
35°	203.4	193.9	176.1	157.0	146.3	142.8	151.1	168.9	191.5	210.6	218.9
37.5°	186.8	173.7	148.7	126.1	114.2	111.8	120.2	139.2	165.4	191.5	202.2
40°	167.7	152.3	122.5	98.7	89.2	86.8	94.0	113.0	140.4	170.1	186.8
42.5°	148.7	129.7	98.7	78.5	69.0	69.0	78.5	92.8	117.8	149.9	170.1
45°	129.7	109.4	80.9	63.1	57.1	58.3	64.2	78.5	98.7	132.1	151.1
47.5°	111.8	94.0	66.6	52.3	47.6	48.8	55.9	67.8	84.5	114.2	134.4
50°	96.4	79.7	58.3	44.0	40.4	42.8	50.0	60.7	74.9	101.1	117.8
52.5°	86.8	71.4	53.5	38.1	35.7	38.1	45.2	54.7	67.8	89.2	105.9
55°	82.1	70.2	53.5	34.5	30.9	33.3	40.4	50.0	60.7	80.9	95.2
57.5°	80.9	72.6	57.1	30.9	26.2	28.6	35.7	45.2	55.9	73.8	85.7
60°	76.1	69.0	55.9	25.0	20.2	23.8	29.7	39.3	51.2	69.0	79.7
62.5°	66.6	60.7	48.8	20.2	15.5	17.8	25.0	34.5	46.4	63.1	74.9
65°	54.7	48.8	38.1	13.1	9.5	11.9	19.0	29.7	40.4	57.1	67.8
67.5°	40.4	34.5	26.2	8.3	4.8	8.3	15.5	25.0	36.9	51.2	61.9
70°	25.0	20.2	14.3	4.8	3.6	7.1	14.3	23.8	33.3	47.6	58.3
72.5°	14.3	9.5	5.9	2.4	3.6	7.1	14.3	23.8	32.1	45.2	54.7
75°	10.7	5.9	2.4	1.2	2.4	5.9	13.1	21.4	30.9	42.8	52.3
77.5°	7.1	3.6	1.2	0.0	1.2	4.8	11.9	20.2	28.6	40.4	50.0
80°	1.2	0.0	0.0	0.0	0.0	3.6	10.7	17.8	26.2	35.7	44.0
82.5°	0.0	0.0	0.0	0.0	0.0	1.2	8.3	15.5	22.6	29.7	35.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	4.8	11.9	17.8	22.6	25.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	11.9	14.3	16.7
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°	521.1	521.1	521.1	521.1	521.1	521.1	521.1	521.1	521.1	521.1	521.1
2.5°	486.6	493.7	493.7	498.5	504.4	515.1	521.1	529.4	535.3	541.3	543.7
5°	449.7	450.9	452.1	454.5	461.6	473.5	484.2	497.3	512.7	524.6	531.8
7.5°	418.8	418.8	418.8	422.3	429.5	437.8	448.5	466.3	484.2	498.5	510.4
10°	392.6	396.2	397.3	403.3	411.6	422.3	434.2	449.7	469.9	489.0	510.4
12.5°	375.9	379.5	385.5	391.4	399.7	411.6	424.7	444.9	486.6	525.8	571.0
15°	360.5	365.2	372.4	380.7	390.2	403.3	417.6	459.2	556.8	630.5	701.9
17.5°	343.8	351.0	360.5	368.8	380.7	395.0	412.8	493.7	685.2	807.8	929.1
20°	322.4	331.9	342.6	355.7	370.0	386.6	412.8	565.1	870.8	1046.9	1207.5
22.5°	302.2	311.7	324.8	341.4	358.1	374.7	418.8	673.3	1110.0	1332.4	1535.9
25°	285.5	297.4	310.5	324.8	343.8	362.8	433.0	825.6	1397.9	1684.6	1828.5
27.5°	270.1	284.3	297.4	309.3	326.0	347.4	465.2	1029.1	1738.1	2029.6	2142.6
30°	254.6	271.2	284.3	296.2	312.9	335.5	513.9	1288.4	2116.4	2399.6	2411.4
32.5°	241.5	257.0	272.4	284.3	299.8	326.0	581.7	1591.8	2504.2	2777.9	2666.0
35°	227.2	245.1	259.3	272.4	289.1	317.6	660.3	1918.9	2895.6	3125.2	2919.4
37.5°	212.9	233.2	251.0	260.5	277.2	309.3	717.4	2260.4	3295.4	3464.3	3141.9
40°	199.9	222.5	242.7	252.2	260.5	298.6	725.7	2610.1	3701.0	3798.6	3351.3
42.5°	185.6	210.6	228.4	241.5	248.6	291.5	675.7	2905.2	4041.3	4131.7	3624.9
45°	170.1	199.9	214.1	223.7	237.9	296.2	611.5	3133.6	4430.3	4586.2	4075.8
47.5°	154.7	188.0	199.9	207.0	226.0	324.8	587.7	3285.9	5071.5	5395.1	4836.0
50°	140.4	177.3	190.3	189.2	223.7	361.7	613.9	3401.2	6035.2	6415.9	5878.1
52.5°	124.9	165.4	180.8	176.1	241.5	390.2	666.2	3492.9	6776.3	7612.7	7278.4
55°	111.8	152.3	166.6	165.4	274.8	411.6	706.7	3009.8	7083.3	8725.0	8855.9
57.5°	102.3	138.0	149.9	170.1	296.2	411.6	817.3	2136.6	7089.2	9543.5	10949.7
60°	94.0	124.9	133.2	186.8	287.9	390.2	809.0	1308.6	6533.6	9487.6	12063.2
62.5°	86.8	113.0	123.7	191.5	254.6	386.6	730.5	811.4	5572.4	8765.4	11255.4
65°	80.9	103.5	119.0	176.1	230.8	414.0	492.5	582.9	4519.5	7942.2	10328.7
67.5°	74.9	95.2	126.1	143.9	209.4	370.0	355.7	414.0	3547.6	7039.2	9478.0
70°	70.2	90.4	133.2	117.8	183.2	289.1	252.2	314.1	2716.0	5873.4	8280.1
72.5°	66.6	84.5	111.8	92.8	148.7	223.7	176.1	228.4	1775.0	4585.0	6750.2
75°	63.1	77.3	82.1	74.9	110.6	146.3	133.2	153.5	1057.6	3351.3	5121.5
77.5°	61.9	72.6	66.6	60.7	74.9	86.8	101.1	103.5	516.3	1676.2	2683.9
80°	54.7	65.4	57.1	50.0	51.2	57.1	74.9	69.0	117.8	425.9	716.2
82.5°	42.8	51.2	47.6	41.6	41.6	41.6	50.0	46.4	38.1	191.5	323.6
85°	29.7	35.7	35.7	33.3	32.1	32.1	30.9	29.7	10.7	11.9	17.8
87.5°	20.2	25.0	26.2	25.0	21.4	19.0	16.7	14.3	4.8	0.0	2.4
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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CATALOG NUMBER: GWS-SA2F-750-U-SLL-W-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	521.1	521.1	521.1	521.1	521.1	521.1	521.1	521.1	521.1	521.1
2.5°	552.0	555.6	555.6	550.8	547.2	537.7	528.2	518.7	516.3	515.1
5°	552.0	566.3	573.4	572.2	563.9	548.4	528.2	506.8	500.8	498.5
7.5°	543.7	571.0	592.5	596.0	580.6	553.2	516.3	484.2	475.9	472.3
10°	562.7	616.2	659.1	665.0	647.2	593.6	534.2	479.4	466.3	458.0
12.5°	665.0	753.1	805.4	830.4	795.9	728.1	629.3	531.8	502.0	489.0
15°	872.0	996.9	1096.9	1096.9	1064.7	944.6	819.7	661.5	621.0	585.3
17.5°	1137.3	1294.4	1382.4	1372.9	1324.1	1239.6	1089.7	862.5	780.4	743.5
20°	1439.5	1533.5	1553.7	1547.8	1526.3	1477.6	1374.1	1130.2	1019.5	962.4
22.5°	1701.2	1676.2	1646.5	1622.7	1616.8	1631.0	1616.8	1428.8	1341.9	1240.8
25°	1878.5	1736.9	1647.7	1604.9	1625.1	1707.2	1796.4	1726.2	1657.2	1552.5
27.5°	1974.8	1729.8	1601.3	1557.3	1591.8	1708.4	1902.3	2021.2	1949.9	1899.9
30°	2027.2	1723.8	1571.5	1528.7	1581.1	1727.4	1976.0	2297.2	2299.6	2219.9
32.5°	2102.1	1761.9	1577.5	1538.2	1608.4	1784.5	2068.8	2578.0	2647.0	2604.2
35°	2186.6	1820.2	1604.9	1569.2	1656.0	1860.6	2172.3	2861.1	3005.1	2990.8
37.5°	2266.3	1885.6	1669.1	1634.6	1728.6	1926.1	2272.3	3139.5	3339.4	3389.4
40°	2349.6	1977.2	1866.6	1899.9	1952.2	2029.6	2361.5	3381.0	3707.0	3781.9
42.5°	2545.9	2294.9	2463.8	2526.8	2534.0	2374.6	2556.6	3690.3	4068.6	4157.9
45°	2983.7	2860.0	3344.1	3433.4	3387.0	2904.0	3026.5	4136.5	4574.3	4619.5
47.5°	3536.9	3594.0	4549.3	4857.4	4579.0	3528.5	3596.4	5075.1	5499.8	5483.2
50°	4181.7	4451.7	5917.4	6644.3	5978.1	4339.9	4253.0	6229.1	6744.2	6693.0
52.5°	4944.2	5448.7	7561.5	8594.1	7963.6	5252.4	5216.7	7757.8	8071.9	7908.9
55°	5904.3	6411.1	9453.1	10896.1	9999.1	6365.9	6488.4	9530.4	9591.1	9073.6
57.5°	7336.7	7666.2	11682.5	13536.0	12123.9	7879.1	8767.8	11889.5	11163.8	10183.5
60°	9937.3	9280.6	13837.0	16236.5	14384.2	10007.4	11774.1	13287.4	11687.3	10335.8
62.5°	10842.6	10651.1	15186.1	17378.6	15904.6	11755.1	12555.7	12495.0	11009.1	9760.0
65°	9470.9	10309.6	14944.6	16775.4	15709.5	11467.2	11267.3	11620.6	10245.4	8885.6
67.5°	8748.8	9507.8	14029.7	15111.1	14628.1	10490.5	10043.1	9946.8	8601.3	7518.7
70°	8020.7	8772.6	12703.2	12837.7	12612.8	8898.7	8311.0	7665.0	6428.9	5487.9
72.5°	7145.1	7559.1	10862.8	10225.2	9970.6	6989.3	6865.5	5772.2	4819.3	4011.5
75°	6231.5	6111.3	8469.2	7017.8	7208.2	5438.0	5798.4	4238.8	3530.9	2887.3
77.5°	4532.6	4443.4	5672.3	4262.6	4720.6	3561.9	3200.2	1691.7	1610.8	1389.5
80°	2529.2	3049.1	3063.4	2388.8	2980.1	2322.2	800.6	55.9	35.7	52.3
82.5°	1175.4	1311.0	1660.8	1107.6	1700.0	1150.4	165.4	0.0	0.0	0.0
85°	380.7	556.8	466.3	163.0	411.6	389.0	27.4	0.0	0.0	0.0
87.5°	22.6	46.4	11.9	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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