

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: P641011

Luminaire Tested: GWS-SA5F-722-U-SLL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641011
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-SA5F-722-U-SLL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18614.7 lumens
Efficiency: N/A
Efficacy: 60.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

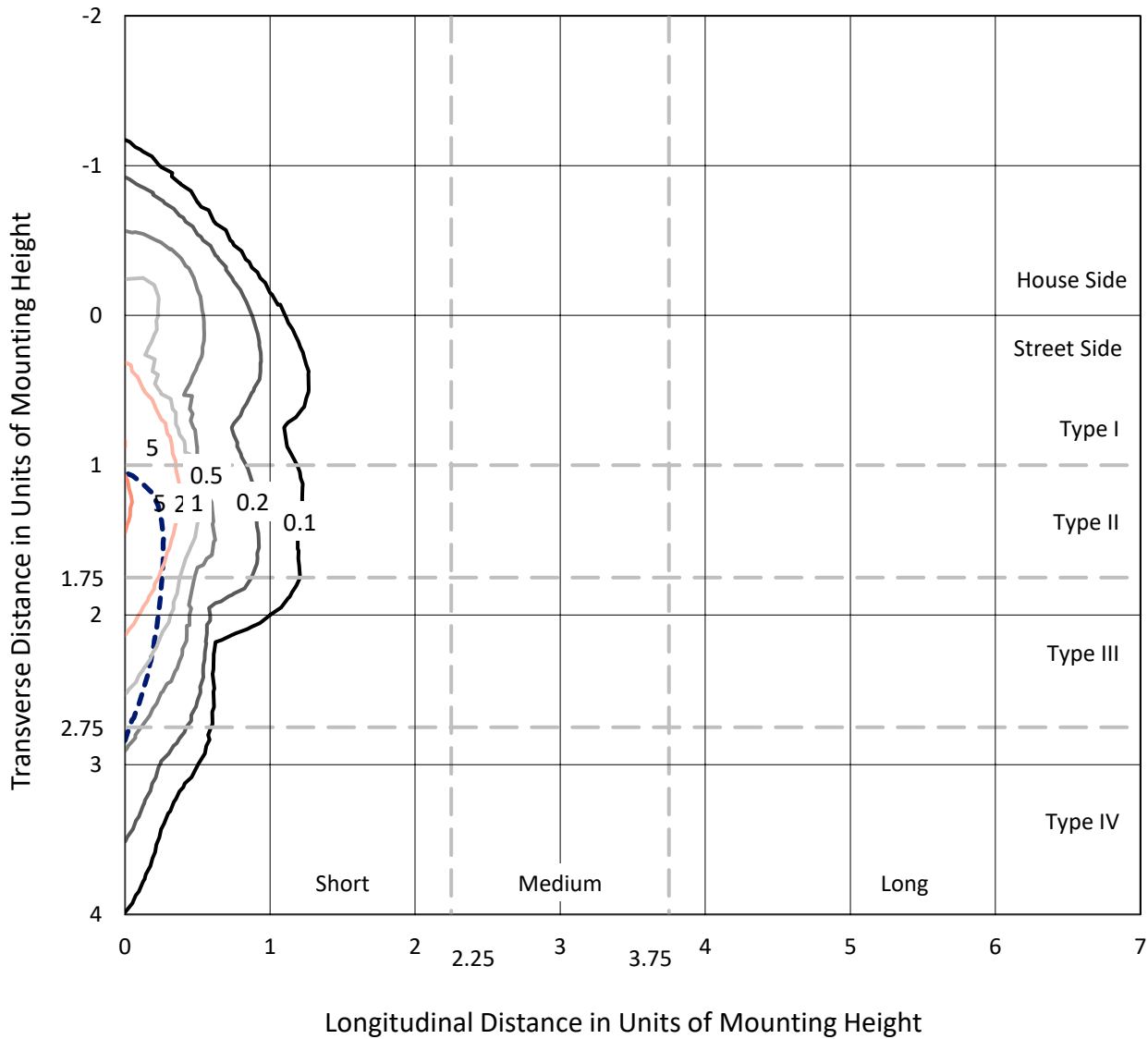
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

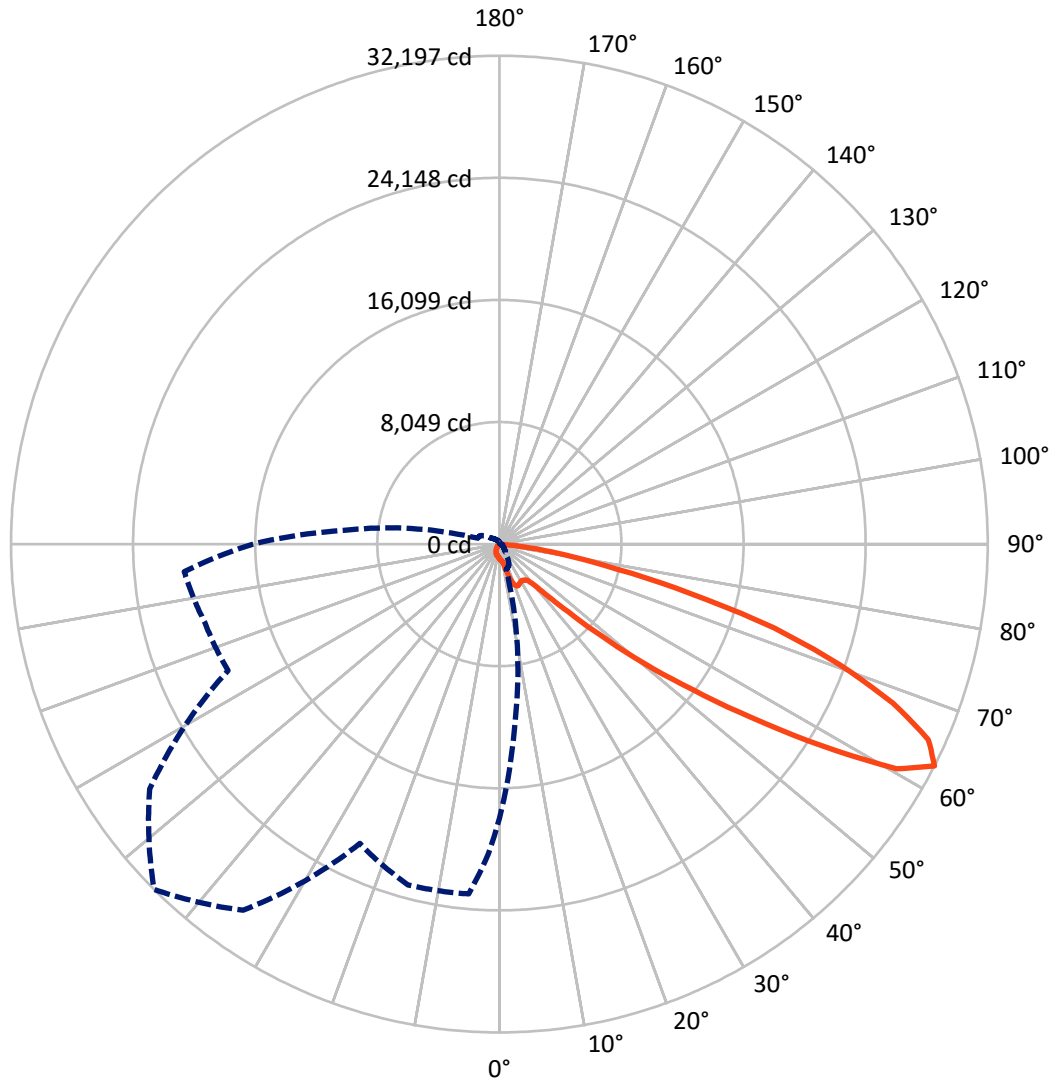
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	2162.8	0.0	2162.8
	% Fixture	11.6	0.0	11.6
Street Side	Lumens	16451.9	0.0	16451.9
	% Fixture	88.4	0.0	88.4
Total	Lumens	18614.7	0.0	18614.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.4	0.4
10°-20°	285.7	1.5
20°-30°	645.5	3.5
30°-40°	1112.0	6.0
40°-50°	2097.7	11.3
50°-60°	4683.6	25.2
60°-70°	6264.3	33.7
70°-80°	3141.4	16.9
80°-90°	301.1	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°	18614.7	100.0
0°-180°	18614.7	100.0

Coefficient of Utilization



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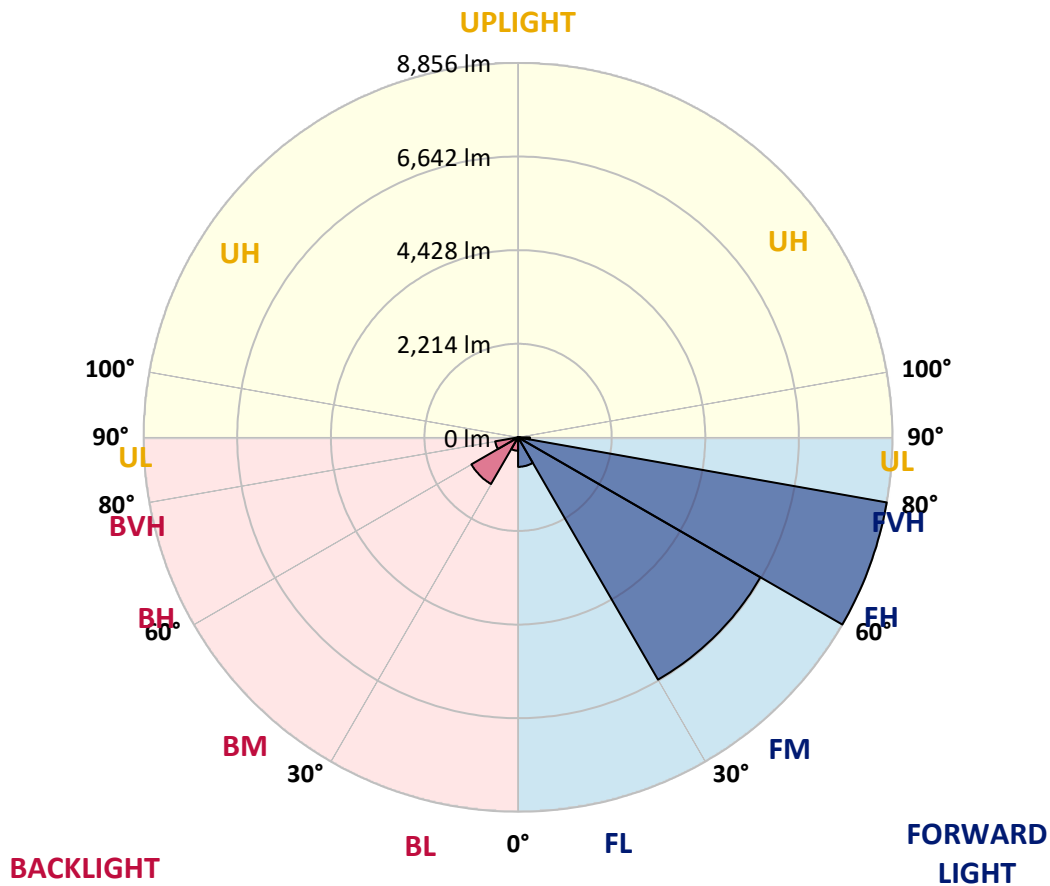
CATALOG NUMBER: GWS-SA5F-722-U-SLL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	697.1	3.7			
FM (30°-60°)	6618.1	35.6			
FH (60°-80°)	8855.6	47.6			G4/12000
FVH (80°-90°)	281.1	1.5			G3/500
BL (0°-30°)	317.5	1.7	B1/500		
BM (30°-60°)	1275.3	6.9	B2/2500		
BH (60°-80°)	550.0	3.0	B2/1000		G2/1000
BVH (80°-90°)	20.0	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	965.4	965.4	965.4	965.4	965.4	965.4	965.4	965.4	965.4	965.4	965.4
2.5°	954.4	952.2	947.8	934.5	923.5	916.9	903.7	903.7	901.5	897.1	888.2
5°	923.5	914.7	905.9	881.6	855.2	839.8	822.1	819.9	819.9	815.5	813.3
7.5°	875.0	866.2	855.2	815.5	791.3	775.8	760.4	758.2	751.6	751.6	751.6
10°	848.6	835.3	817.7	773.6	749.4	736.2	725.1	718.5	714.1	707.5	705.3
12.5°	905.9	881.6	844.2	764.8	731.8	714.1	700.9	696.5	683.3	674.4	667.8
15°	1084.4	1024.9	950.0	784.7	725.1	698.7	681.1	672.2	661.2	645.8	634.8
17.5°	1377.5	1291.6	1166.0	848.6	718.5	685.5	663.4	648.0	632.6	614.9	601.7
20°	1783.1	1655.3	1505.4	965.4	718.5	670.0	643.6	623.8	601.7	581.9	566.4
22.5°	2298.9	2171.0	1915.3	1163.8	727.3	650.2	619.3	592.9	566.4	548.8	531.2
25°	2876.3	2695.6	2457.5	1404.0	751.6	623.8	590.7	564.2	540.0	518.0	498.1
27.5°	3519.9	3323.7	3006.4	1745.6	804.5	597.3	559.8	535.6	513.5	491.5	465.1
30°	4112.8	3996.0	3672.0	2155.6	890.4	579.7	535.6	513.5	491.5	462.9	438.6
32.5°	4824.7	4617.5	4350.8	2622.8	1005.1	562.0	515.8	484.9	467.3	440.8	414.4
35°	5541.0	5364.7	5014.3	3198.1	1132.9	544.4	491.5	462.9	447.4	416.6	387.9
37.5°	6279.4	6239.7	5893.7	3835.1	1258.5	524.6	462.9	445.2	429.8	394.5	361.5
40°	7006.8	6934.0	6614.4	4562.4	1335.7	502.5	438.6	427.6	410.0	370.3	332.8
42.5°	7703.2	7648.1	7337.4	5258.9	1324.6	482.7	414.4	401.1	387.9	348.2	302.0
45°	8558.4	8468.1	8075.7	5774.7	1212.2	504.7	390.1	368.1	365.9	328.4	271.1
47.5°	10158.6	9861.0	9195.4	6171.4	1099.8	562.0	363.7	337.2	352.7	308.6	240.2
50°	12400.1	12049.7	11086.5	6480.0	1097.6	637.0	359.3	308.6	341.6	293.1	213.8
52.5°	14652.7	14035.6	12865.2	6645.3	1179.2	692.1	398.9	279.9	328.4	277.7	194.0
55°	16810.5	15529.9	13610.2	6098.7	1243.1	751.6	471.7	264.5	304.2	260.1	182.9
57.5°	18866.9	16731.1	13934.2	4824.7	1456.9	775.8	515.8	271.1	268.9	238.0	174.1
60°	19149.0	16673.8	13279.6	2805.8	1606.8	734.0	498.1	302.0	235.8	211.6	158.7
62.5°	18082.2	15565.2	11787.4	1750.0	1492.2	718.5	443.0	343.8	213.8	187.3	138.9
65°	16462.2	13826.2	9828.0	1128.5	1130.7	797.9	387.9	337.2	200.6	165.3	119.0
67.5°	13929.8	11571.4	7742.9	756.0	639.2	681.1	339.4	231.4	196.2	141.1	92.6
70°	10167.4	8236.6	5040.7	504.7	381.3	544.4	284.3	165.3	185.1	116.8	66.1
72.5°	7432.1	5534.4	2814.6	330.6	216.0	317.4	209.4	119.0	143.3	86.0	46.3
75°	5349.3	3808.6	1606.8	211.6	143.3	174.1	136.7	81.6	92.6	68.3	41.9
77.5°	2574.4	1855.8	729.5	116.8	97.0	88.2	72.7	50.7	57.3	61.7	37.5
80°	97.0	72.7	55.1	57.3	61.7	39.7	33.1	26.4	33.1	41.9	19.8
82.5°	0.0	0.0	0.0	6.6	8.8	11.0	13.2	11.0	13.2	15.4	2.2
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°	965.4	965.4	965.4	965.4	965.4	965.4	965.4	965.4	965.4	965.4	965.4
2.5°	894.9	890.4	894.9	899.3	903.7	908.1	901.5	905.9	910.3	899.3	903.7
5°	824.3	822.1	835.3	842.0	850.8	855.2	850.8	850.8	848.6	835.3	835.3
7.5°	762.6	764.8	775.8	791.3	802.3	808.9	804.5	802.3	795.7	775.8	775.8
10°	716.3	716.3	734.0	747.2	762.6	769.2	764.8	758.2	751.6	731.8	729.5
12.5°	678.9	678.9	692.1	714.1	731.8	740.6	738.4	729.5	718.5	698.7	696.5
15°	643.6	641.4	661.2	681.1	705.3	716.3	711.9	705.3	685.5	667.8	663.4
17.5°	608.3	606.1	623.8	650.2	676.7	692.1	689.9	674.4	656.8	634.8	630.4
20°	573.1	568.7	590.7	617.1	643.6	659.0	654.6	641.4	619.3	597.3	592.9
22.5°	537.8	535.6	551.0	573.1	597.3	610.5	608.3	597.3	575.3	555.4	555.4
25°	498.1	498.1	509.1	524.6	542.2	548.8	551.0	546.6	533.4	522.4	522.4
27.5°	465.1	458.4	462.9	467.3	476.1	487.1	487.1	491.5	493.7	489.3	491.5
30°	438.6	427.6	421.0	412.2	407.8	412.2	416.6	432.0	447.4	456.2	460.7
32.5°	407.8	394.5	376.9	352.7	337.2	332.8	346.0	374.7	403.3	423.2	434.2
35°	376.9	359.3	326.2	290.9	271.1	264.5	279.9	313.0	354.9	390.1	405.5
37.5°	346.0	321.8	275.5	233.6	211.6	207.2	222.6	257.9	306.4	354.9	374.7
40°	310.8	282.1	227.0	182.9	165.3	160.9	174.1	209.4	260.1	315.2	346.0
42.5°	275.5	240.2	182.9	145.5	127.8	127.8	145.5	171.9	218.2	277.7	315.2
45°	240.2	202.8	149.9	116.8	105.8	108.0	119.0	145.5	182.9	244.7	279.9
47.5°	207.2	174.1	123.4	97.0	88.2	90.4	103.6	125.6	156.5	211.6	249.1
50°	178.5	147.7	108.0	81.6	74.9	79.3	92.6	112.4	138.9	187.3	218.2
52.5°	160.9	132.2	99.2	70.5	66.1	70.5	83.8	101.4	125.6	165.3	196.2
55°	152.1	130.0	99.2	63.9	57.3	61.7	74.9	92.6	112.4	149.9	176.3
57.5°	149.9	134.4	105.8	57.3	48.5	52.9	66.1	83.8	103.6	136.7	158.7
60°	141.1	127.8	103.6	46.3	37.5	44.1	55.1	72.7	94.8	127.8	147.7
62.5°	123.4	112.4	90.4	37.5	28.7	33.1	46.3	63.9	86.0	116.8	138.9
65°	101.4	90.4	70.5	24.2	17.6	22.0	35.3	55.1	74.9	105.8	125.6
67.5°	74.9	63.9	48.5	15.4	8.8	15.4	28.7	46.3	68.3	94.8	114.6
70°	46.3	37.5	26.4	8.8	6.6	13.2	26.4	44.1	61.7	88.2	108.0
72.5°	26.4	17.6	11.0	4.4	6.6	13.2	26.4	44.1	59.5	83.8	101.4
75°	19.8	11.0	4.4	2.2	4.4	11.0	24.2	39.7	57.3	79.3	97.0
77.5°	13.2	6.6	2.2	0.0	2.2	8.8	22.0	37.5	52.9	74.9	92.6
80°	2.2	0.0	0.0	0.0	0.0	6.6	19.8	33.1	48.5	66.1	81.6
82.5°	0.0	0.0	0.0	0.0	0.0	2.2	15.4	28.7	41.9	55.1	66.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	8.8	22.0	33.1	41.9	46.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	22.0	26.4	30.9
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°	965.4	965.4	965.4	965.4	965.4	965.4	965.4	965.4	965.4	965.4	965.4
2.5°	901.5	914.7	914.7	923.5	934.5	954.4	965.4	980.8	991.8	1002.9	1007.3
5°	833.1	835.3	837.5	842.0	855.2	877.2	897.1	921.3	950.0	972.0	985.2
7.5°	775.8	775.8	775.8	782.4	795.7	811.1	830.9	864.0	897.1	923.5	945.5
10°	727.3	734.0	736.2	747.2	762.6	782.4	804.5	833.1	870.6	905.9	945.5
12.5°	696.5	703.1	714.1	725.1	740.6	762.6	786.9	824.3	901.5	974.2	1058.0
15°	667.8	676.7	689.9	705.3	722.9	747.2	773.6	850.8	1031.5	1168.2	1300.4
17.5°	637.0	650.2	667.8	683.3	705.3	731.8	764.8	914.7	1269.5	1496.6	1721.4
20°	597.3	614.9	634.8	659.0	685.5	716.3	764.8	1046.9	1613.4	1939.6	2237.1
22.5°	559.8	577.5	601.7	632.6	663.4	694.3	775.8	1247.5	2056.4	2468.6	2845.5
25°	529.0	551.0	575.3	601.7	637.0	672.2	802.3	1529.6	2589.8	3121.0	3387.7
27.5°	500.3	526.8	551.0	573.1	603.9	643.6	861.8	1906.5	3220.2	3760.2	3969.5
30°	471.7	502.5	526.8	548.8	579.7	621.5	952.2	2387.0	3921.1	4445.6	4467.7
32.5°	447.4	476.1	504.7	526.8	555.4	603.9	1077.8	2949.1	4639.6	5146.5	4939.3
35°	421.0	454.0	480.5	504.7	535.6	588.5	1223.3	3555.2	5364.7	5790.1	5408.8
37.5°	394.5	432.0	465.1	482.7	513.5	573.1	1329.1	4187.7	6105.3	6418.3	5821.0
40°	370.3	412.2	449.6	467.3	482.7	553.2	1344.5	4835.7	6856.9	7037.6	6208.9
42.5°	343.8	390.1	423.2	447.4	460.7	540.0	1251.9	5382.4	7487.2	7654.8	6715.8
45°	315.2	370.3	396.7	414.4	440.8	548.8	1132.9	5805.5	8208.0	8496.7	7551.2
47.5°	286.5	348.2	370.3	383.5	418.8	601.7	1088.8	6087.7	9396.0	9995.5	8959.6
50°	260.1	328.4	352.7	350.4	414.4	670.0	1137.3	6301.5	11181.3	11886.6	10890.3
52.5°	231.4	306.4	335.0	326.2	447.4	722.9	1234.3	6471.2	12554.4	14103.9	13484.5
55°	207.2	282.1	308.6	306.4	509.1	762.6	1309.2	5576.3	13123.1	16164.7	16407.1
57.5°	189.6	255.7	277.7	315.2	548.8	762.6	1514.2	3958.5	13134.1	17681.1	20286.3
60°	174.1	231.4	246.9	346.0	533.4	722.9	1498.8	2424.5	12104.8	17577.5	22349.3
62.5°	160.9	209.4	229.2	354.9	471.7	716.3	1353.3	1503.2	10323.9	16239.6	20852.8
65°	149.9	191.8	220.4	326.2	427.6	767.0	912.5	1080.0	8373.3	14714.4	19135.8
67.5°	138.9	176.3	233.6	266.7	387.9	685.5	659.0	767.0	6572.6	13041.5	17559.9
70°	130.0	167.5	246.9	218.2	339.4	535.6	467.3	581.9	5031.9	10881.5	15340.4
72.5°	123.4	156.5	207.2	171.9	275.5	414.4	326.2	423.2	3288.5	8494.5	12505.9
75°	116.8	143.3	152.1	138.9	205.0	271.1	246.9	284.3	1959.4	6208.9	9488.5
77.5°	114.6	134.4	123.4	112.4	138.9	160.9	187.3	191.8	956.6	3105.5	4972.4
80°	101.4	121.2	105.8	92.6	94.8	105.8	138.9	127.8	218.2	789.1	1326.9
82.5°	79.3	94.8	88.2	77.1	77.1	77.1	92.6	86.0	70.5	354.9	599.5
85°	55.1	66.1	66.1	61.7	59.5	59.5	57.3	55.1	19.8	22.0	33.1
87.5°	37.5	46.3	48.5	46.3	39.7	35.3	30.9	26.4	8.8	0.0	4.4
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-SA5F-722-U-SLL-W-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	965.4	965.4	965.4	965.4	965.4	965.4	965.4	965.4	965.4	965.4
2.5°	1022.7	1029.3	1029.3	1020.5	1013.9	996.2	978.6	961.0	956.6	954.4
5°	1022.7	1049.1	1062.4	1060.2	1044.7	1016.1	978.6	938.9	927.9	923.5
7.5°	1007.3	1058.0	1097.6	1104.2	1075.6	1024.9	956.6	897.1	881.6	875.0
10°	1042.5	1141.7	1221.1	1232.1	1199.0	1099.8	989.6	888.2	864.0	848.6
12.5°	1232.1	1395.2	1492.2	1538.4	1474.5	1348.9	1166.0	985.2	930.1	905.9
15°	1615.6	1847.0	2032.2	2032.2	1972.6	1750.0	1518.6	1225.5	1150.5	1084.4
17.5°	2107.1	2398.0	2561.1	2543.5	2453.1	2296.6	2018.9	1598.0	1445.9	1377.5
20°	2666.9	2841.1	2878.5	2867.5	2827.8	2737.5	2545.7	2093.9	1888.9	1783.1
22.5°	3151.8	3105.5	3050.4	3006.4	2995.3	3021.8	2995.3	2647.1	2486.2	2298.9
25°	3480.2	3218.0	3052.6	2973.3	3010.8	3162.8	3328.2	3198.1	3070.3	2876.3
27.5°	3658.8	3204.7	2966.7	2885.1	2949.1	3165.1	3524.3	3744.7	3612.5	3519.9
30°	3755.7	3193.7	2911.6	2832.2	2929.2	3200.3	3661.0	4256.1	4260.5	4112.8
32.5°	3894.6	3264.2	2922.6	2849.9	2979.9	3306.1	3832.9	4776.2	4904.1	4824.7
35°	4051.1	3372.2	2973.3	2907.2	3068.1	3447.2	4024.6	5300.8	5567.5	5541.0
37.5°	4198.8	3493.5	3092.3	3028.4	3202.5	3568.4	4209.8	5816.6	6186.8	6279.4
40°	4353.0	3663.2	3458.2	3519.9	3616.9	3760.2	4375.1	6264.0	6867.9	7006.8
42.5°	4716.7	4251.7	4564.6	4681.5	4694.7	4399.3	4736.6	6837.0	7537.9	7703.2
45°	5527.8	5298.6	6195.7	6361.0	6275.0	5380.1	5607.2	7663.6	8474.7	8558.4
47.5°	6552.7	6658.5	8428.4	8999.2	8483.5	6537.3	6662.9	9402.6	10189.4	10158.6
50°	7747.3	8247.7	10963.1	12309.8	11075.5	8040.5	7879.6	11540.5	12494.9	12400.1
52.5°	9160.1	10094.7	14009.1	15922.2	14754.1	9731.0	9664.9	14372.8	14954.7	14652.7
55°	10938.8	11877.8	17513.6	20187.1	18525.3	11794.0	12021.0	17656.8	17769.3	16810.5
57.5°	13592.5	14203.1	21644.0	25078.0	22461.7	14597.6	16244.0	22027.5	20683.0	18866.9
60°	18410.6	17194.0	25635.6	30081.2	26649.5	18540.7	21813.7	24617.3	21652.8	19149.0
62.5°	20087.9	19733.1	28135.0	32197.1	29466.3	21778.5	23261.8	23149.4	20396.5	18082.2
65°	17546.6	19100.5	27687.6	31079.7	29104.8	21245.1	20874.8	21529.4	18981.5	16462.2
67.5°	16208.8	17615.0	25992.7	27996.2	27101.3	19435.5	18606.8	18428.3	15935.5	13929.8
70°	14859.9	16252.9	23535.1	23784.2	23367.6	16486.5	15397.7	14200.9	11910.8	10167.4
72.5°	13237.7	14004.7	20125.4	18944.0	18472.4	12948.9	12719.7	10694.2	8928.7	7432.1
75°	11544.9	11322.3	15690.8	13001.8	13354.5	10074.8	10742.7	7853.1	6541.7	5349.3
77.5°	8397.5	8232.2	10509.0	7897.2	8745.8	6599.0	5929.0	3134.2	2984.3	2574.4
80°	4685.9	5649.0	5675.5	4425.8	5521.2	4302.4	1483.3	103.6	66.1	97.0
82.5°	2177.6	2428.9	3076.9	2052.0	3149.6	2131.3	306.4	0.0	0.0	0.0
85°	705.3	1031.5	864.0	302.0	762.6	720.7	50.7	0.0	0.0	0.0
87.5°	41.9	86.0	22.0	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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