

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: P641014

Luminaire Tested: GWS-SA5F-722-U-SLR-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641014
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-43)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-722-U-SLR-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24054.1 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

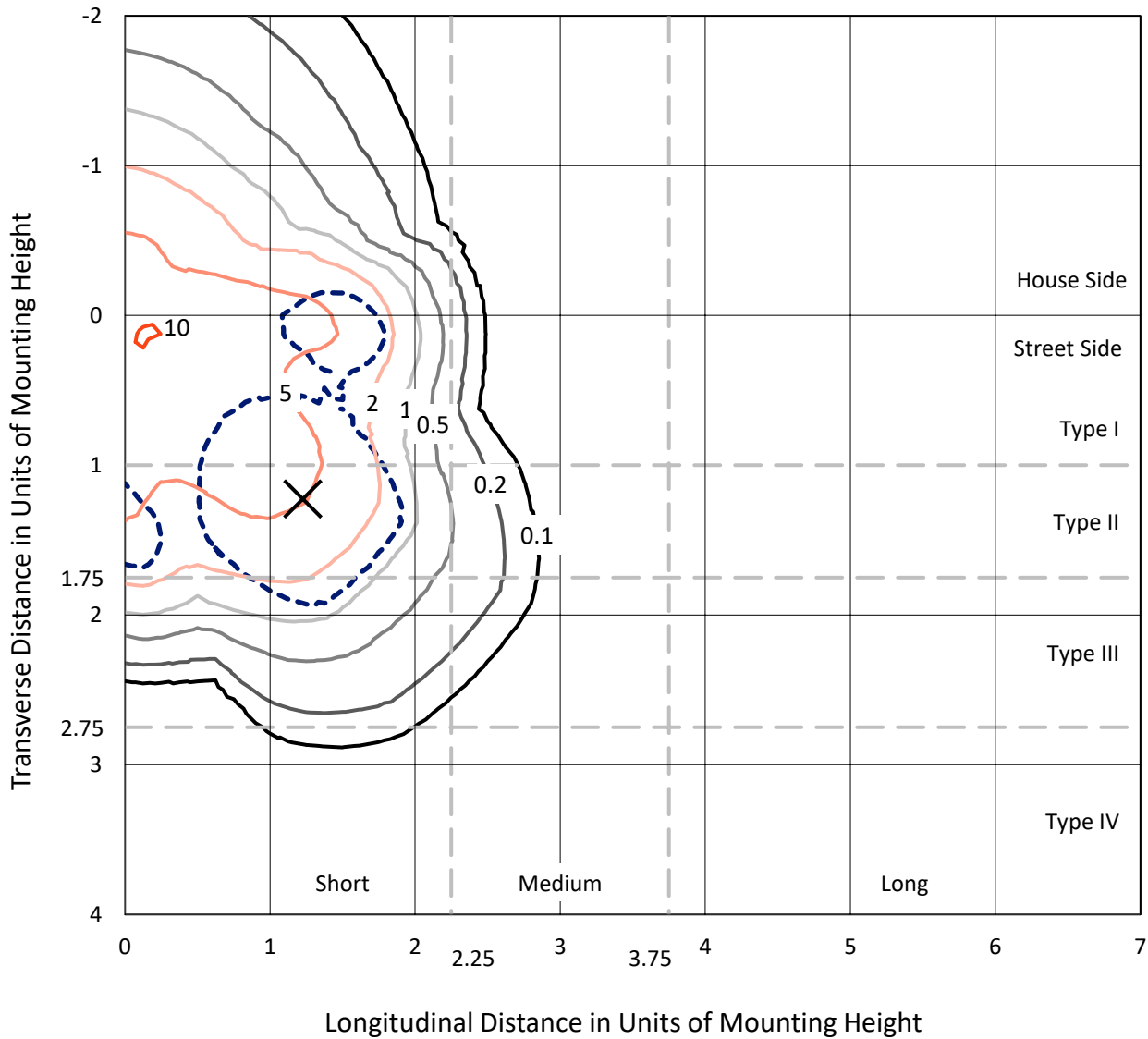
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

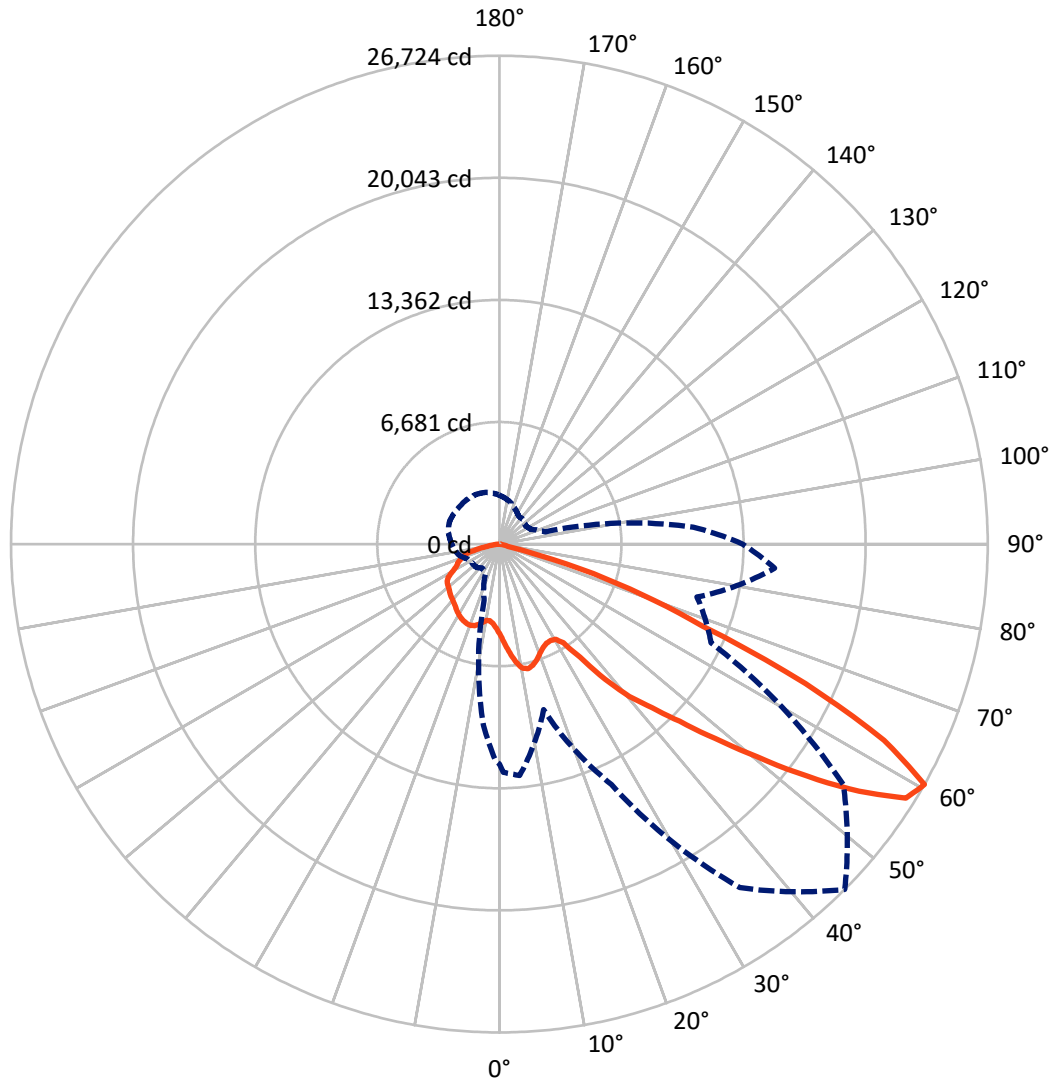
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8431.8	0.0	8431.8
	% Fixture	35.1	0.0	35.1
Street Side	Lumens	15622.3	0.0	15622.3
	% Fixture	64.9	0.0	64.9
Total	Lumens	24054.1	0.0	24054.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	482.1	2.0
10°-20°	1523.5	6.3
20°-30°	2474.8	10.3
30°-40°	3490.1	14.5
40°-50°	4823.2	20.1
50°-60°	6208.9	25.8
60°-70°	3934.0	16.4
70°-80°	1009.5	4.2
80°-90°	107.9	0.4
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°	24054.1	100.0
0°-180°	24054.1	100.0

Coefficient of Utilization





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4941.4	4941.4	4941.4	4941.4	4941.4	4941.4	4941.4	4941.4	4941.4	4941.4	4941.4
2.5°	5168.4	5203.7	5225.7	5267.6	5342.5	5384.4	5430.7	5380.0	5393.2	5386.6	5305.1
5°	5474.8	5516.7	5574.0	5697.4	5836.3	5913.4	5986.1	5975.1	5906.8	5792.2	5710.6
7.5°	5761.3	5809.8	5909.0	6109.5	6314.5	6433.5	6521.7	6464.4	6407.1	6226.4	6021.4
10°	5986.1	6014.8	6149.2	6418.1	6656.1	6790.6	6898.6	6885.4	6806.0	6603.2	6327.7
12.5°	6197.7	6217.5	6363.0	6631.9	6845.7	6905.2	6993.4	7022.0	6995.6	6843.5	6572.4
15°	6424.7	6462.2	6596.6	6801.6	6898.6	6836.9	6867.7	6947.1	7022.0	7022.0	6773.0
17.5°	6636.3	6669.4	6806.0	6894.2	6801.6	6638.5	6647.3	6748.7	6927.2	7114.6	6955.9
20°	6823.7	6854.5	6989.0	6905.2	6612.1	6374.0	6367.4	6490.8	6779.6	7174.1	7152.1
22.5°	7028.6	7072.7	7185.1	6914.0	6435.7	6133.8	6131.6	6259.4	6649.5	7233.6	7376.9
25°	7319.6	7387.9	7445.2	6991.2	6341.0	5977.3	6006.0	6127.2	6607.7	7330.6	7709.7
27.5°	7751.5	7806.6	7802.2	7152.1	6336.6	5913.4	5972.9	6114.0	6682.6	7502.5	8060.1
30°	8218.8	8247.5	8201.2	7376.9	6437.9	5953.1	6041.2	6208.7	6872.1	7786.8	8575.8
32.5°	8736.7	8772.0	8683.8	7714.1	6673.8	6246.2	6440.2	6521.7	7138.8	8196.8	9122.4
35°	9331.8	9400.2	9217.2	8159.3	7368.0	7315.1	7597.3	7491.5	7705.3	8681.6	9706.5
37.5°	9957.8	9960.0	9697.7	8818.3	8730.1	8820.5	9384.7	9054.1	8906.5	9221.6	10301.6
40°	10488.9	10475.7	10072.4	9706.5	9915.9	10275.2	10956.2	10449.3	10061.4	9946.8	10795.3
42.5°	11020.1	10971.6	10563.9	10270.7	10733.6	11471.9	12241.1	11619.6	10801.9	10605.8	11282.4
45°	11698.9	11683.5	11192.0	10495.6	11471.9	12812.0	13832.4	12825.2	11240.5	10989.3	12093.5
47.5°	12794.3	12719.4	11804.7	10477.9	12164.0	14597.2	15886.6	14343.8	11546.9	10998.1	13402.7
50°	13865.5	13772.9	12536.5	10475.7	12878.1	16448.6	18311.0	16188.5	11859.8	11051.0	14733.9
52.5°	14947.7	14947.7	13737.7	10724.8	13627.5	18516.0	21112.3	18487.3	12393.2	11743.0	16371.5
55°	15591.3	15763.2	15088.7	11145.7	14504.7	20949.2	23882.8	20969.1	13217.5	12992.7	17883.4
57.5°	14773.6	15095.3	14998.4	10852.6	15022.6	22736.7	26232.3	22851.3	13625.3	13140.4	17656.4
60°	12038.4	12485.8	12708.4	9371.5	14511.3	22943.9	26723.8	22974.7	12783.3	11189.8	15124.0
62.5°	8002.8	8370.9	8710.3	6695.8	12562.9	20640.7	23635.9	20647.3	10676.3	8351.0	10477.9
65°	3925.4	4198.7	4564.5	3958.4	9814.5	17246.5	18427.8	16684.4	7722.9	4674.7	5344.8
67.5°	1027.1	1104.2	1154.9	1536.2	7030.8	12391.0	12018.5	12203.7	4961.3	1527.4	1397.3
70°	533.4	537.8	535.6	634.8	4751.9	7875.0	8282.7	7663.4	3462.5	639.2	551.0
72.5°	381.3	383.5	376.9	427.6	2294.4	4511.6	4674.7	4624.0	1813.9	379.1	376.9
75°	249.1	251.3	246.9	251.3	346.0	513.5	473.9	498.1	302.0	240.2	240.2
77.5°	147.7	149.9	147.7	152.1	147.7	147.7	136.6	136.6	130.0	130.0	132.2
80°	99.2	99.2	97.0	101.4	92.6	92.6	88.2	86.0	79.3	77.1	77.1
82.5°	59.5	61.7	59.5	59.5	55.1	55.1	50.7	48.5	41.9	41.9	39.7
85°	30.9	30.9	28.7	28.7	24.2	22.0	17.6	17.6	13.2	11.0	11.0
87.5°	4.4	4.4	2.2	2.2	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°	4941.4	4941.4	4941.4	4941.4	4941.4	4941.4	4941.4	4941.4	4941.4	4941.4	4941.4
2.5°	5283.0	5239.0	5172.8	5108.9	5049.4	4987.7	4917.2	4844.4	4782.7	4718.8	4685.8
5°	5602.6	5512.3	5340.3	5188.3	5051.6	4939.2	4818.0	4714.4	4617.4	4538.1	4498.4
7.5°	5891.4	5750.3	5490.2	5250.0	5064.8	4910.6	4743.1	4588.8	4458.7	4361.8	4324.3
10°	6158.0	5990.5	5648.9	5344.8	5128.8	4956.8	4751.9	4542.5	4370.6	4242.7	4211.9
12.5°	6374.0	6182.3	5774.5	5421.9	5166.2	4981.1	4800.4	4619.6	4449.9	4284.6	4258.2
15°	6565.8	6338.8	5869.3	5470.4	5153.0	4917.2	4765.1	4743.1	4743.1	4555.7	4502.8
17.5°	6731.1	6482.0	5946.5	5492.4	5069.3	4727.6	4635.1	4826.8	5042.8	4908.4	4789.3
20°	6920.6	6618.7	6010.4	5492.4	4915.0	4487.4	4478.6	4804.8	5124.4	5126.6	5000.9
22.5°	7112.4	6777.4	6085.3	5472.6	4703.4	4209.7	4372.8	4716.6	5000.9	5122.1	5036.2
25°	7423.1	6997.8	6204.3	5457.2	4456.5	4020.1	4278.0	4599.8	4840.0	4967.9	4912.8
27.5°	7817.7	7288.7	6385.1	5481.4	4211.9	3907.7	4176.6	4447.7	4665.9	4778.3	4738.6
30°	8258.5	7623.7	6579.0	5523.3	4035.6	3850.4	4055.4	4273.6	4467.6	4580.0	4562.3
32.5°	8820.5	7987.4	6746.5	5466.0	3936.4	3821.8	3927.6	4084.1	4271.4	4341.9	4357.4
35°	9492.7	8388.5	6874.3	5241.2	3846.0	3790.9	3788.7	3885.7	4017.9	4130.3	4141.4
37.5°	10112.1	8858.0	7015.4	4855.5	3682.9	3713.8	3625.6	3682.9	3813.0	3925.4	3969.4
40°	10724.8	9334.0	7211.6	4364.0	3469.1	3541.9	3438.3	3477.9	3581.5	3729.2	3799.7
42.5°	11319.9	9763.8	7418.7	3861.4	3255.3	3301.6	3224.5	3264.2	3372.2	3557.3	3636.6
45°	11967.8	10345.7	7579.6	3387.6	3070.2	3050.4	2988.7	3046.0	3209.1	3411.8	3506.6
47.5°	13193.3	11262.6	7685.4	3072.4	2971.0	2827.8	2757.2	2880.7	3065.8	3270.8	3385.4
50°	14689.8	12589.4	7654.6	2871.8	2885.1	2598.5	2574.3	2737.4	2935.8	3149.5	3275.2
52.5°	15875.6	13892.0	7304.1	2680.1	2717.6	2453.1	2382.5	2620.6	2810.1	3028.3	3158.4
55°	16781.4	14330.6	6228.6	2453.1	2444.3	2347.3	2199.6	2499.4	2684.5	2887.3	3028.3
57.5°	16043.1	13354.2	4617.4	2140.1	2087.2	2137.9	1994.6	2294.4	2530.2	2730.8	2856.4
60°	13314.5	10647.6	2572.1	1895.5	1745.6	1869.0	1847.0	2078.4	2362.7	2574.3	2682.3
62.5°	9038.7	7090.3	1525.2	1498.7	1415.0	1591.3	1708.1	1860.2	2140.1	2312.0	2413.4
65°	4505.0	3444.9	1013.9	1121.8	1132.9	1309.2	1529.6	1697.1	1930.7	2107.0	2208.4
67.5°	1307.0	1071.2	771.4	857.4	976.4	1117.4	1293.8	1492.1	1719.1	1928.5	2047.5
70°	564.2	570.8	612.7	714.1	830.9	976.4	1152.7	1346.7	1538.4	1699.3	1789.7
72.5°	398.9	414.4	460.6	564.2	674.4	813.3	989.6	1176.9	1315.8	1478.9	1573.7
75°	255.7	266.7	304.2	383.5	465.0	599.5	767.0	938.9	1082.2	1199.0	1289.4
77.5°	141.1	143.3	174.1	220.4	275.5	361.5	484.9	619.3	725.1	791.2	872.8
80°	81.5	81.5	97.0	125.6	158.7	211.6	279.9	346.0	409.9	451.8	491.5
82.5°	44.1	44.1	50.7	68.3	86.0	116.8	156.5	189.5	229.2	251.3	277.7
85°	13.2	13.2	17.6	24.2	30.9	44.1	61.7	79.3	97.0	112.4	127.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
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-SA5F-722-U-SLR-W-GRSWH

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4941.4	4941.4	4941.4	4941.4	4941.4	4941.4	4941.4	4941.4	4941.4	4941.4	4941.4
2.5°	4679.1	4648.3	4630.7	4608.6	4615.2	4595.4	4584.4	4591.0	4551.3	4591.0	4630.7
5°	4483.0	4438.9	4403.6	4375.0	4361.8	4335.3	4319.9	4319.9	4295.6	4335.3	4383.8
7.5°	4311.1	4275.8	4258.2	4240.5	4220.7	4196.5	4170.0	4161.2	4145.8	4187.6	4229.5
10°	4196.5	4200.9	4211.9	4236.1	4231.7	4216.3	4176.6	4154.6	4154.6	4203.1	4267.0
12.5°	4249.4	4295.6	4322.1	4366.2	4375.0	4361.8	4322.1	4304.5	4348.5	4421.3	4527.1
15°	4454.3	4485.2	4507.2	4542.5	4540.3	4529.3	4498.4	4511.6	4657.1	4798.2	4892.9
17.5°	4676.9	4641.7	4637.3	4659.3	4665.9	4652.7	4635.1	4694.6	4934.8	5067.0	5115.5
20°	4837.8	4716.6	4690.2	4699.0	4716.6	4710.0	4710.0	4807.0	5056.0	5117.7	5056.0
22.5°	4886.3	4714.4	4674.7	4676.9	4701.2	4703.4	4714.4	4815.8	4961.3	4963.5	4868.7
25°	4809.2	4643.9	4615.2	4619.6	4648.3	4646.1	4650.5	4707.8	4771.7	4745.3	4674.7
27.5°	4663.7	4520.4	4511.6	4535.9	4573.3	4553.5	4540.3	4555.7	4586.6	4553.5	4491.8
30°	4498.4	4377.2	4381.6	4427.9	4467.6	4434.5	4401.4	4410.2	4412.5	4377.2	4306.7
32.5°	4324.3	4233.9	4249.4	4297.8	4344.1	4308.9	4273.6	4269.2	4227.3	4185.4	4117.1
35°	4150.2	4114.9	4134.7	4174.4	4214.1	4185.4	4163.4	4150.2	4059.8	3998.1	3940.8
37.5°	3991.5	4017.9	4053.2	4077.4	4090.7	4088.5	4075.2	4044.4	3925.4	3852.6	3777.7
40°	3850.4	3932.0	3969.4	3980.5	4000.3	3995.9	3993.7	3949.6	3793.1	3716.0	3630.0
42.5°	3722.6	3837.2	3901.1	3912.1	3923.2	3925.4	3918.8	3854.8	3676.3	3585.9	3504.4
45°	3599.2	3749.0	3830.6	3819.6	3835.0	3835.0	3841.6	3757.9	3561.7	3469.1	3383.2
47.5°	3491.2	3667.5	3742.4	3729.2	3738.0	3744.6	3751.2	3654.3	3436.1	3347.9	3259.7
50°	3392.0	3579.3	3643.2	3647.7	3647.7	3663.1	3660.9	3566.1	3330.3	3235.5	3147.3
52.5°	3286.2	3489.0	3557.3	3585.9	3594.8	3601.4	3570.5	3460.3	3222.3	3107.7	3026.1
55°	3162.8	3396.4	3458.1	3495.6	3513.2	3508.8	3466.9	3354.5	3112.1	2997.5	2904.9
57.5°	2975.4	3198.0	3286.2	3303.8	3332.5	3314.8	3266.4	3171.6	2935.8	2821.1	2726.4
60°	2770.5	2931.3	3001.9	3017.3	2995.3	3001.9	2995.3	2904.9	2699.9	2609.6	2512.6
62.5°	2501.6	2644.8	2719.8	2739.6	2702.1	2726.4	2717.6	2605.2	2400.2	2305.4	2219.5
65°	2298.8	2455.3	2543.4	2554.5	2543.4	2554.5	2523.6	2387.0	2193.0	2096.0	2007.9
67.5°	2140.1	2301.0	2393.6	2424.4	2413.4	2411.2	2362.7	2204.0	2003.5	1897.7	1785.3
70°	1866.8	2007.9	2126.9	2201.8	2201.8	2159.9	2067.4	1919.7	1758.8	1668.4	1580.3
72.5°	1653.0	1831.5	1948.4	2025.5	2040.9	2016.7	1886.6	1730.2	1545.0	1454.7	1362.1
75°	1362.1	1536.2	1661.8	1763.2	1783.1	1756.6	1606.7	1452.5	1280.5	1192.4	1099.8
77.5°	910.3	1013.9	1115.2	1207.8	1188.0	1205.6	1104.2	987.4	881.6	815.5	773.6
80°	513.5	581.9	612.7	663.4	663.4	663.4	597.3	542.2	482.7	445.2	403.3
82.5°	290.9	335.0	348.2	390.1	401.1	403.3	359.3	324.0	286.5	266.7	238.0
85°	134.4	158.7	160.9	185.1	194.0	211.6	191.7	167.5	145.5	136.6	119.0
87.5°	4.4	13.2	17.6	33.1	44.1	50.7	55.1	55.1	46.3	41.9	35.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P641014

CATALOG NUMBER: GWS-SA5F-722-U-SLR-W-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4941.4	4941.4	4941.4	4941.4	4941.4	4941.4	4941.4	4941.4	4941.4	4941.4
2.5°	4679.1	4732.0	4793.7	4837.8	4917.2	4983.3	5051.6	5126.6	5181.7	5168.4
5°	4443.3	4531.5	4643.9	4747.5	4895.1	5045.0	5210.3	5380.0	5479.2	5474.8
7.5°	4311.1	4436.7	4573.3	4712.2	4886.3	5102.3	5355.8	5620.3	5754.7	5761.3
10°	4381.6	4516.0	4608.6	4725.4	4908.4	5179.5	5483.6	5801.0	5955.3	5986.1
12.5°	4604.2	4593.2	4586.6	4670.3	4890.7	5234.6	5607.0	5986.1	6160.2	6197.7
15°	4815.8	4588.8	4452.1	4509.4	4811.4	5269.8	5728.3	6188.9	6385.1	6424.7
17.5°	4855.5	4511.6	4258.2	4297.8	4685.8	5280.8	5845.1	6387.3	6598.8	6636.3
20°	4745.3	4412.5	4117.1	4062.0	4527.1	5252.2	5917.8	6552.6	6784.0	6823.7
22.5°	4606.4	4324.3	4011.3	3868.1	4333.1	5223.5	5999.3	6726.7	6993.4	7028.6
25°	4460.9	4211.9	3912.1	3693.9	4112.7	5205.9	6136.0	6955.9	7277.7	7319.6
27.5°	4306.7	4075.2	3826.2	3610.2	3909.9	5227.9	6330.0	7326.2	7692.0	7751.5
30°	4141.4	3938.6	3771.1	3581.5	3771.1	5247.8	6543.7	7705.3	8135.0	8218.8
32.5°	3969.4	3813.0	3713.8	3594.8	3685.1	5201.5	6731.1	8130.6	8664.0	8736.7
35°	3797.5	3685.1	3641.0	3619.0	3570.5	5031.8	6883.2	8560.4	9267.9	9331.8
37.5°	3636.6	3552.9	3539.7	3563.9	3394.2	4754.1	7059.5	9107.0	9860.8	9957.8
40°	3486.8	3409.6	3407.4	3403.0	3200.2	4375.0	7297.5	9662.4	10444.9	10488.9
42.5°	3347.9	3250.9	3268.6	3215.7	3041.6	3965.0	7522.3	10136.3	10989.3	11020.1
45°	3224.5	3096.7	3116.5	3050.4	2966.6	3535.3	7720.7	10696.1	11679.1	11698.9
47.5°	3105.5	2968.8	2913.7	2909.3	2953.4	3138.5	7914.6	11773.9	12759.1	12794.3
50°	2995.3	2847.6	2691.1	2788.1	2871.8	2841.0	8157.1	12928.8	13874.3	13865.5
52.5°	2889.5	2695.5	2472.9	2660.3	2660.3	2620.6	8088.8	13629.7	14795.6	14947.7
55°	2768.3	2450.9	2245.9	2446.5	2349.5	2422.2	6878.8	13858.9	15375.3	15591.3
57.5°	2528.0	2148.9	1970.4	2078.4	1932.9	2245.9	4941.4	12721.6	14390.1	14773.6
60°	2296.6	1926.3	1809.5	1789.7	1600.1	1831.5	3202.4	9960.0	11844.4	12038.4
62.5°	2025.5	1734.6	1635.4	1483.3	1287.1	1333.4	1939.5	6554.8	7958.7	8002.8
65°	1820.5	1571.5	1381.9	1201.2	1053.5	967.6	1146.1	3160.6	3978.3	3925.4
67.5°	1562.7	1346.7	1165.9	1035.9	914.7	806.7	762.6	938.9	1062.3	1027.1
70°	1390.7	1183.6	1009.4	886.0	773.6	665.6	588.5	553.2	542.2	533.4
72.5°	1199.0	1018.3	837.5	718.5	612.7	513.5	443.0	401.1	390.1	381.3
75°	956.5	786.8	621.5	509.1	416.6	346.0	299.7	264.5	257.9	249.1
77.5°	632.6	504.7	370.3	302.0	246.9	209.4	178.5	156.5	152.1	147.7
80°	348.2	290.9	227.0	182.9	147.7	127.8	116.8	103.6	101.4	99.2
82.5°	207.2	174.1	130.0	103.6	86.0	77.1	70.5	63.9	61.7	59.5
85°	103.6	81.5	57.3	48.5	44.1	39.7	39.7	33.1	30.9	30.9
87.5°	26.4	22.0	13.2	11.0	11.0	11.0	8.8	6.6	6.6	4.4
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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