

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: P640519

Luminaire Tested: GWS-SA5E-722-U-SLR-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640519
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-SA5E-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: 21634.9 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

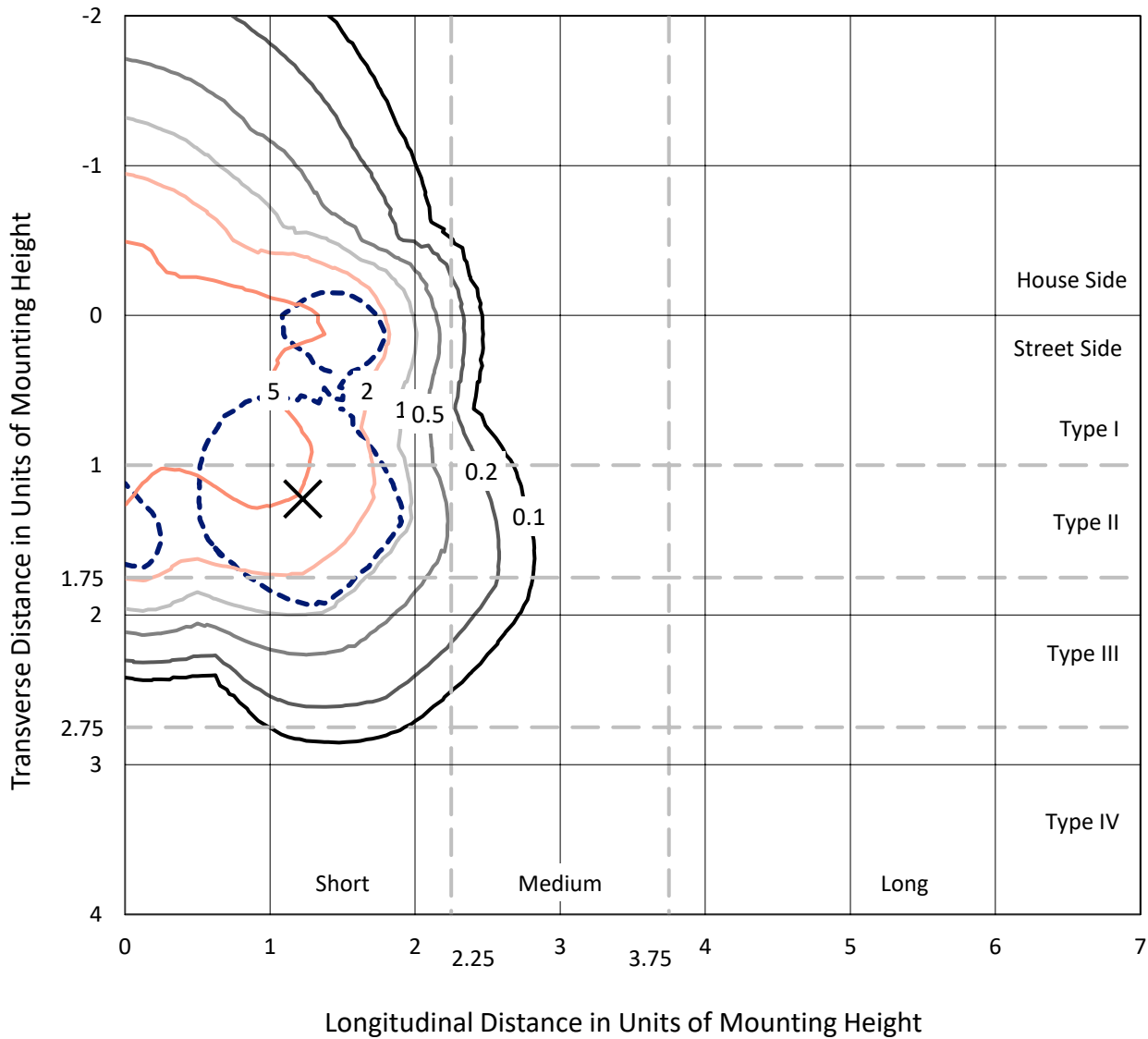
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

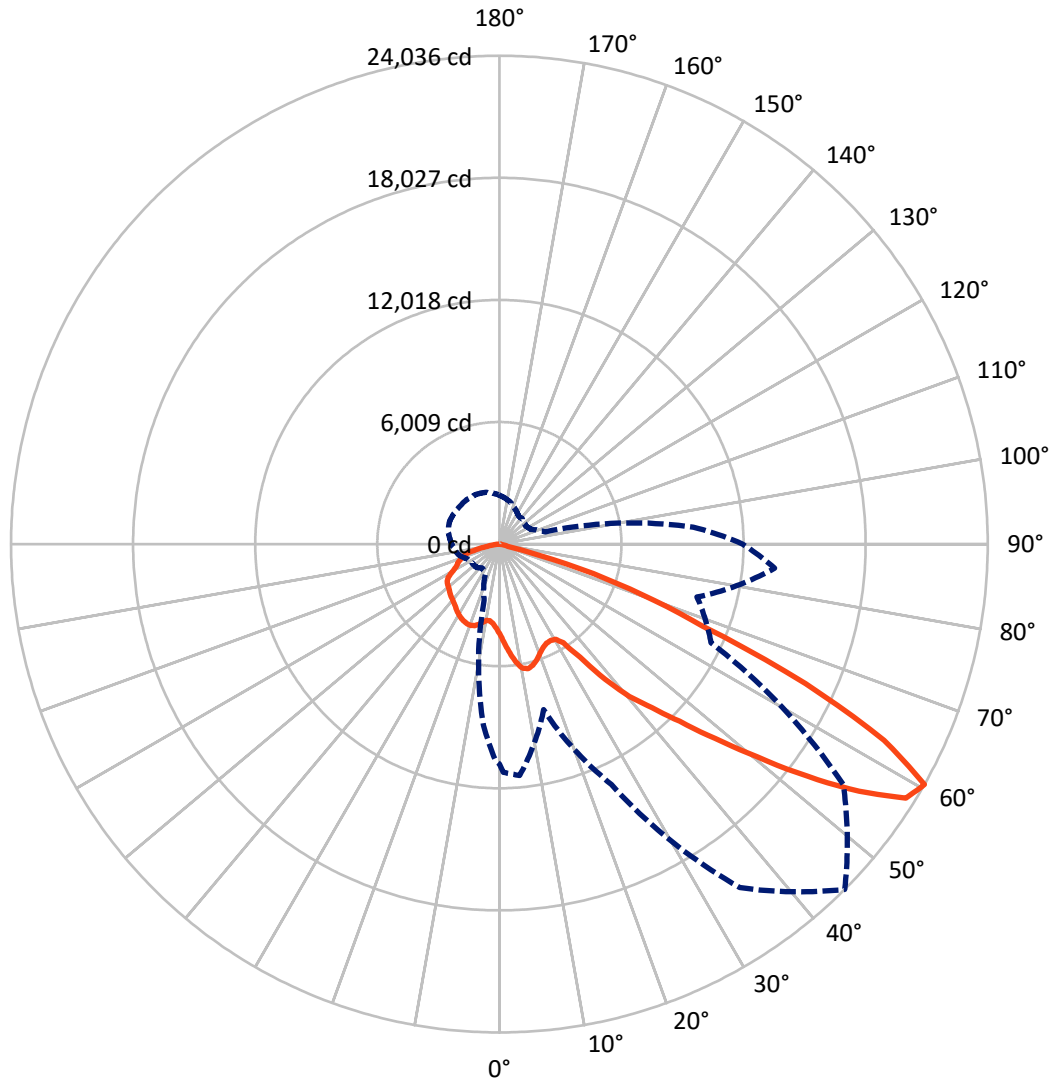
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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	7583.8	0.0	7583.8
	% Fixture	35.1	0.0	35.1
Street Side	Lumens	14051.1	0.0	14051.1
	% Fixture	64.9	0.0	64.9
Total	Lumens	21634.9	0.0	21634.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	433.6	2.0
10°-20°	1370.3	6.3
20°-30°	2225.9	10.3
30°-40°	3139.1	14.5
40°-50°	4338.1	20.1
50°-60°	5584.5	25.8
60°-70°	3538.4	16.4
70°-80°	908.0	4.2
80°-90°	97.1	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°	21634.9	100.0
0°-180°	21634.9	100.0

Coefficient of Utilization



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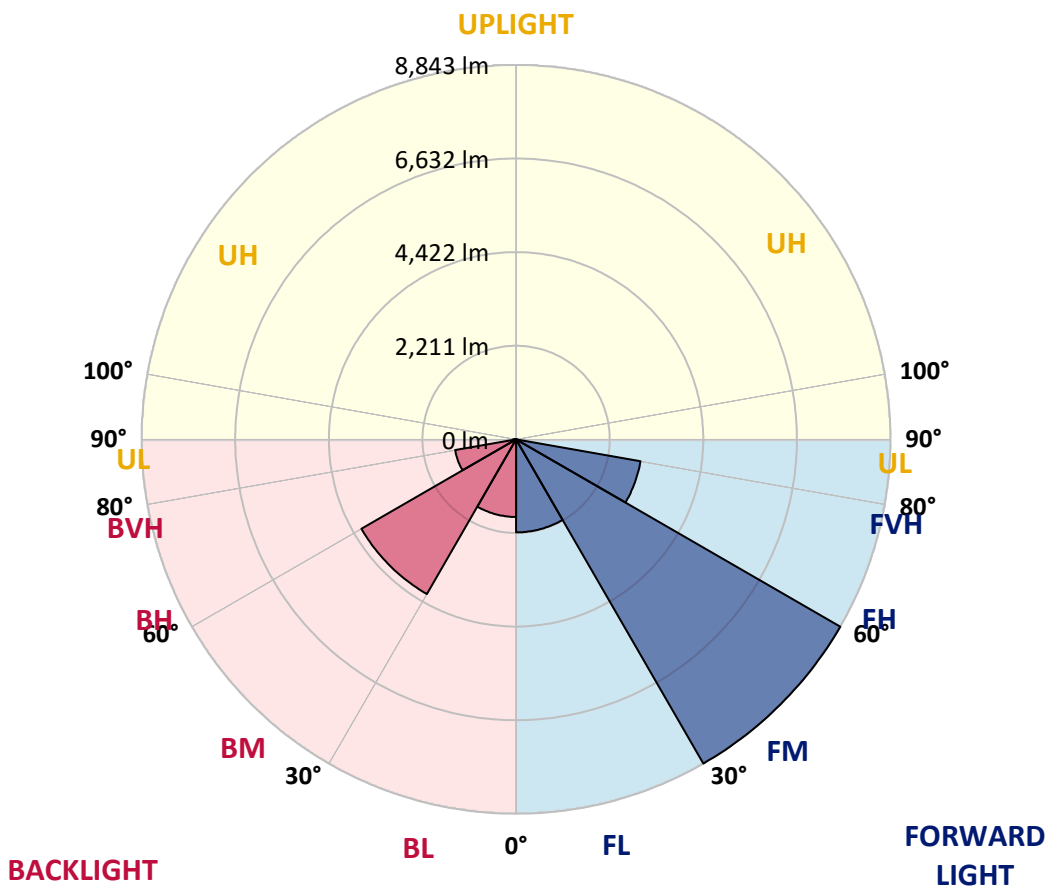
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2196.8	10.2			
FM (30°-60°)	8843.1	40.9			
FH (60°-80°)	2984.9	13.8			G2/5000
FVH (80°-90°)	26.4	0.1			G1/100
BL (0°-30°)	1833.0	8.5	B3/2500		
BM (30°-60°)	4218.6	19.5	B3/5000		
BH (60°-80°)	1461.5	6.8	B3/2500		G3/2500
BVH (80°-90°)	70.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4444.4	4444.4	4444.4	4444.4	4444.4	4444.4	4444.4	4444.4	4444.4	4444.4	4444.4
2.5°	4648.6	4680.3	4700.2	4737.8	4805.2	4842.9	4884.5	4838.9	4850.8	4844.9	4771.5
5°	4924.2	4961.8	5013.4	5124.4	5249.3	5318.7	5384.1	5374.2	5312.7	5209.6	5136.3
7.5°	5181.9	5225.5	5314.7	5495.1	5679.5	5786.5	5865.8	5814.3	5762.7	5600.2	5415.8
10°	5384.1	5409.9	5530.8	5772.6	5986.7	6107.6	6204.8	6192.9	6121.5	5939.1	5691.3
12.5°	5574.4	5592.2	5723.1	5964.9	6157.2	6210.7	6290.0	6315.8	6292.0	6155.2	5911.4
15°	5778.6	5812.3	5933.2	6117.6	6204.8	6149.3	6177.0	6248.4	6315.8	6315.8	6091.8
17.5°	5968.9	5998.6	6121.5	6200.8	6117.6	5970.9	5978.8	6070.0	6230.5	6399.0	6256.3
20°	6137.4	6165.1	6286.1	6210.7	5947.1	5733.0	5727.0	5838.0	6097.7	6452.6	6432.7
22.5°	6321.7	6361.4	6462.5	6218.7	5788.5	5516.9	5514.9	5629.9	5980.8	6506.1	6634.9
25°	6583.4	6644.9	6696.4	6288.0	5703.2	5376.1	5401.9	5511.0	5943.1	6593.3	6934.3
27.5°	6971.9	7021.5	7017.5	6432.7	5699.3	5318.7	5372.2	5499.1	6010.5	6747.9	7249.5
30°	7392.2	7418.0	7376.3	6634.9	5790.5	5354.3	5433.6	5584.3	6181.0	7003.7	7713.3
32.5°	7858.1	7889.8	7810.5	6938.2	6002.6	5618.0	5792.4	5865.8	6420.9	7372.4	8205.0
35°	8393.3	8454.7	8290.2	7338.7	6627.0	6579.4	6833.2	6738.0	6930.3	7808.5	8730.3
37.5°	8956.3	8958.3	8722.4	7931.4	7852.1	7933.4	8440.9	8143.5	8010.7	8294.2	9265.5
40°	9434.0	9422.1	9059.4	8730.3	8918.6	9241.7	9854.3	9398.4	9049.5	8946.4	9709.6
42.5°	9911.8	9868.2	9501.4	9237.8	9654.1	10318.2	11010.0	10451.0	9715.5	9539.1	10147.7
45°	10522.3	10508.5	10066.4	9440.0	10318.2	11523.4	12441.3	11535.3	10110.0	9884.0	10877.2
47.5°	11507.6	11440.2	10617.5	9424.1	10940.6	13129.1	14288.8	12901.2	10385.6	9892.0	12054.7
50°	12471.0	12387.7	11275.6	9422.1	11582.9	14794.3	16469.4	14560.4	10667.1	9939.5	13252.1
52.5°	13444.3	13444.3	12356.0	9646.1	12256.9	16653.8	18989.0	16628.0	11146.8	10562.0	14724.9
55°	14023.2	14177.8	13571.2	10024.8	13045.9	18842.3	21480.8	18860.1	11888.2	11686.0	16084.8
57.5°	13287.7	13577.2	13489.9	9761.1	13511.7	20450.0	23594.0	20553.1	12254.9	11818.8	15880.7
60°	10827.6	11230.0	11430.3	8429.0	13051.8	20636.3	24036.1	20664.1	11497.7	10064.4	13602.9
62.5°	7197.9	7529.0	7834.3	6022.4	11299.4	18564.8	21258.8	18570.7	9602.5	7511.1	9424.1
65°	3530.6	3776.4	4105.5	3560.3	8827.4	15511.9	16574.5	15006.4	6946.2	4204.6	4807.2
67.5°	923.8	993.2	1038.8	1381.7	6323.7	11144.8	10809.8	10976.3	4462.3	1373.8	1256.8
70°	479.7	483.7	481.7	570.9	4274.0	7083.0	7449.7	6892.7	3114.3	574.9	495.6
72.5°	342.9	344.9	339.0	384.6	2063.6	4057.9	4204.6	4159.0	1631.5	341.0	339.0
75°	224.0	226.0	222.0	226.0	311.2	461.9	426.2	448.0	271.6	216.1	216.1
77.5°	132.8	134.8	132.8	136.8	132.8	132.8	122.9	122.9	117.0	117.0	118.9
80°	89.2	89.2	87.2	91.2	83.3	83.3	79.3	77.3	71.4	69.4	69.4
82.5°	53.5	55.5	53.5	53.5	49.6	49.6	45.6	43.6	37.7	37.7	35.7
85°	27.8	27.8	25.8	25.8	21.8	19.8	15.9	15.9	11.9	9.9	9.9
87.5°	4.0	4.0	2.0	2.0	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°	4444.4	4444.4	4444.4	4444.4	4444.4	4444.4	4444.4	4444.4	4444.4	4444.4	4444.4
2.5°	4751.7	4712.1	4652.6	4595.1	4541.6	4486.1	4422.6	4357.2	4301.7	4244.2	4214.5
5°	5039.1	4957.9	4803.2	4666.5	4543.6	4442.5	4333.4	4240.3	4153.0	4081.7	4046.0
7.5°	5298.8	5172.0	4938.0	4722.0	4555.5	4416.7	4266.0	4127.3	4010.3	3923.1	3889.4
10°	5538.7	5388.0	5080.8	4807.2	4612.9	4458.3	4274.0	4085.6	3931.0	3816.0	3788.3
12.5°	5733.0	5560.5	5193.8	4876.6	4646.6	4480.1	4317.6	4155.0	4002.4	3853.7	3829.9
15°	5905.4	5701.3	5279.0	4920.2	4634.7	4422.6	4285.9	4266.0	4266.0	4097.5	4050.0
17.5°	6054.1	5830.1	5348.4	4940.0	4559.4	4252.2	4168.9	4341.4	4535.6	4414.7	4307.7
20°	6224.6	5953.0	5405.9	4940.0	4420.7	4036.1	4028.1	4321.5	4609.0	4611.0	4498.0
22.5°	6397.1	6095.7	5473.3	4922.2	4230.3	3786.3	3933.0	4242.2	4498.0	4607.0	4529.7
25°	6676.6	6294.0	5580.3	4908.3	4008.3	3615.8	3847.8	4137.2	4353.3	4468.2	4418.7
27.5°	7031.4	6555.7	5742.9	4930.1	3788.3	3514.7	3756.6	4000.4	4196.6	4297.7	4262.1
30°	7427.9	6857.0	5917.3	4967.8	3629.7	3463.2	3647.5	3843.8	4018.2	4119.3	4103.5
32.5°	7933.4	7184.1	6068.0	4916.2	3540.5	3437.4	3532.6	3673.3	3841.8	3905.2	3919.1
35°	8538.0	7544.8	6183.0	4714.0	3459.2	3409.7	3407.7	3494.9	3613.8	3714.9	3724.8
37.5°	9095.1	7967.1	6309.8	4367.1	3312.5	3340.3	3261.0	3312.5	3429.5	3530.6	3570.2
40°	9646.1	8395.3	6486.3	3925.1	3120.2	3185.6	3092.5	3128.2	3221.3	3354.1	3417.6
42.5°	10181.4	8781.8	6672.6	3473.1	2927.9	2969.6	2900.2	2935.9	3033.0	3199.5	3270.9
45°	10764.2	9305.2	6817.3	3046.9	2761.4	2743.6	2688.1	2739.6	2886.3	3068.7	3153.9
47.5°	11866.4	10129.8	6912.5	2763.4	2672.2	2543.4	2479.9	2590.9	2757.5	2941.8	3044.9
50°	13212.4	11323.2	6884.7	2583.0	2594.9	2337.2	2315.4	2462.1	2640.5	2832.8	2945.8
52.5°	14278.9	12494.8	6569.5	2410.5	2444.2	2206.4	2142.9	2357.0	2527.5	2723.8	2840.7
55°	15093.7	12889.3	5602.1	2206.4	2198.4	2111.2	1978.4	2248.0	2414.5	2596.9	2723.8
57.5°	14429.6	12011.1	4153.0	1924.9	1877.3	1922.9	1794.0	2063.6	2275.7	2456.1	2569.1
60°	11975.4	9576.8	2313.4	1704.8	1570.0	1681.0	1661.2	1869.4	2125.1	2315.4	2412.5
62.5°	8129.6	6377.2	1371.8	1348.0	1272.7	1431.3	1536.3	1673.1	1924.9	2079.5	2170.7
65°	4051.9	3098.4	911.9	1009.0	1018.9	1177.5	1375.8	1526.4	1736.5	1895.1	1986.3
67.5°	1175.5	963.4	693.8	771.1	878.2	1005.1	1163.6	1342.1	1546.2	1734.6	1841.6
70°	507.5	513.4	551.1	642.3	747.3	878.2	1036.8	1211.2	1383.7	1528.4	1609.7
72.5°	358.8	372.7	414.3	507.5	606.6	731.5	890.1	1058.6	1183.5	1330.2	1415.4
75°	230.0	239.9	273.6	344.9	418.3	539.2	689.9	844.5	973.3	1078.4	1159.7
77.5°	126.9	128.9	156.6	198.2	247.8	325.1	436.1	557.0	652.2	711.7	785.0
80°	73.3	73.3	87.2	113.0	142.7	190.3	251.8	311.2	368.7	406.4	442.1
82.5°	39.6	39.6	45.6	61.5	77.3	105.1	140.7	170.5	206.2	226.0	249.8
85°	11.9	11.9	15.9	21.8	27.8	39.6	55.5	71.4	87.2	101.1	115.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
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°	4444.4	4444.4	4444.4	4444.4	4444.4	4444.4	4444.4	4444.4	4444.4	4444.4	4444.4
2.5°	4208.5	4180.8	4164.9	4145.1	4151.1	4133.2	4123.3	4129.2	4093.6	4129.2	4164.9
5°	4032.1	3992.5	3960.7	3935.0	3923.1	3899.3	3885.4	3885.4	3863.6	3899.3	3942.9
7.5°	3877.5	3845.8	3829.9	3814.1	3796.2	3774.4	3750.6	3742.7	3728.8	3766.5	3804.1
10°	3774.4	3778.4	3788.3	3810.1	3806.1	3792.2	3756.6	3736.7	3736.7	3780.4	3837.8
12.5°	3822.0	3863.6	3887.4	3927.0	3935.0	3923.1	3887.4	3871.5	3911.2	3976.6	4071.8
15°	4006.3	4034.1	4053.9	4085.6	4083.7	4073.7	4046.0	4057.9	4188.7	4315.6	4400.8
17.5°	4206.6	4174.8	4170.9	4190.7	4196.6	4184.8	4168.9	4222.4	4438.5	4557.4	4601.0
20°	4351.3	4242.2	4218.5	4226.4	4242.2	4236.3	4236.3	4323.5	4547.5	4603.0	4547.5
22.5°	4394.9	4240.3	4204.6	4206.6	4228.4	4230.3	4240.3	4331.4	4462.3	4464.3	4379.0
25°	4325.5	4176.8	4151.1	4155.0	4180.8	4178.8	4182.8	4234.3	4291.8	4268.0	4204.6
27.5°	4194.7	4065.8	4057.9	4079.7	4113.4	4095.5	4083.7	4097.5	4125.3	4095.5	4040.0
30°	4046.0	3937.0	3940.9	3982.6	4018.2	3988.5	3958.8	3966.7	3968.7	3937.0	3873.5
32.5°	3889.4	3808.1	3822.0	3865.6	3907.2	3875.5	3843.8	3839.8	3802.2	3764.5	3703.0
35°	3732.8	3701.1	3718.9	3754.6	3790.3	3764.5	3744.7	3732.8	3651.5	3596.0	3544.5
37.5°	3590.0	3613.8	3645.6	3667.4	3679.3	3677.3	3665.4	3637.6	3530.6	3465.2	3397.8
40°	3463.2	3536.5	3570.2	3580.1	3598.0	3594.0	3592.0	3552.4	3411.6	3342.3	3264.9
42.5°	3348.2	3451.3	3508.8	3518.7	3528.6	3530.6	3524.6	3467.1	3306.6	3225.3	3151.9
45°	3237.2	3372.0	3445.3	3435.4	3449.3	3449.3	3455.2	3379.9	3203.5	3120.2	3042.9
47.5°	3140.1	3298.6	3366.0	3354.1	3362.1	3368.0	3374.0	3286.7	3090.5	3011.2	2931.9
50°	3050.8	3219.3	3276.8	3280.8	3280.8	3294.7	3292.7	3207.5	2995.3	2910.1	2830.8
52.5°	2955.7	3138.1	3199.5	3225.3	3233.2	3239.2	3211.4	3112.3	2898.2	2795.1	2721.8
55°	2844.7	3054.8	3110.3	3144.0	3159.9	3155.9	3118.2	3017.1	2799.1	2696.0	2612.7
57.5°	2676.2	2876.4	2955.7	2971.6	2997.3	2981.5	2937.9	2852.6	2640.5	2537.4	2452.2
60°	2491.8	2636.5	2700.0	2713.8	2694.0	2700.0	2694.0	2612.7	2428.4	2347.1	2259.9
62.5°	2250.0	2378.8	2446.2	2464.1	2430.4	2452.2	2444.2	2343.1	2158.8	2073.5	1996.2
65°	2067.6	2208.3	2287.6	2297.6	2287.6	2297.6	2269.8	2146.9	1972.4	1885.2	1805.9
67.5°	1924.9	2069.6	2152.8	2180.6	2170.7	2168.7	2125.1	1982.4	1802.0	1706.8	1605.7
70°	1679.1	1805.9	1913.0	1980.4	1980.4	1942.7	1859.5	1726.6	1581.9	1500.6	1421.3
72.5°	1486.8	1647.3	1752.4	1821.8	1835.7	1813.9	1696.9	1556.1	1389.6	1308.4	1225.1
75°	1225.1	1381.7	1494.7	1585.9	1603.7	1579.9	1445.1	1306.4	1151.7	1072.5	989.2
77.5°	818.7	911.9	1003.1	1086.3	1068.5	1084.3	993.2	888.1	792.9	733.5	695.8
80°	461.9	523.3	551.1	596.7	596.7	596.7	537.2	487.7	434.1	400.4	362.8
82.5°	261.7	301.3	313.2	350.9	360.8	362.8	323.1	291.4	257.7	239.9	214.1
85°	120.9	142.7	144.7	166.5	174.4	190.3	172.5	150.7	130.8	122.9	107.0
87.5°	4.0	11.9	15.9	29.7	39.6	45.6	49.6	49.6	41.6	37.7	31.7
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: P640519

CATALOG NUMBER: GWS-SA5E-722-U-SLR-W-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4444.4	4444.4	4444.4	4444.4	4444.4	4444.4	4444.4	4444.4	4444.4	4444.4
2.5°	4208.5	4256.1	4311.6	4351.3	4422.6	4482.1	4543.6	4611.0	4660.5	4648.6
5°	3996.4	4075.7	4176.8	4270.0	4402.8	4537.6	4686.3	4838.9	4928.1	4924.2
7.5°	3877.5	3990.5	4113.4	4238.3	4394.9	4589.2	4817.1	5055.0	5175.9	5181.9
10°	3940.9	4061.8	4145.1	4250.2	4414.7	4658.5	4932.1	5217.6	5356.3	5384.1
12.5°	4141.1	4131.2	4125.3	4200.6	4398.8	4708.1	5043.1	5384.1	5540.7	5574.4
15°	4331.4	4127.3	4004.4	4055.9	4327.5	4739.8	5152.1	5566.5	5742.9	5778.6
17.5°	4367.1	4057.9	3829.9	3865.6	4214.5	4749.7	5257.2	5744.9	5935.2	5968.9
20°	4268.0	3968.7	3703.0	3653.5	4071.8	4724.0	5322.6	5893.5	6101.7	6137.4
22.5°	4143.1	3889.4	3607.9	3479.0	3897.3	4698.2	5396.0	6050.2	6290.0	6321.7
25°	4012.3	3788.3	3518.7	3322.4	3699.1	4682.3	5518.9	6256.3	6545.7	6583.4
27.5°	3873.5	3665.4	3441.4	3247.1	3516.7	4702.1	5693.3	6589.4	6918.4	6971.9
30°	3724.8	3542.5	3391.8	3221.3	3391.8	4720.0	5885.6	6930.3	7316.9	7392.2
32.5°	3570.2	3429.5	3340.3	3233.2	3314.5	4678.4	6054.1	7312.9	7792.6	7858.1
35°	3415.6	3314.5	3274.9	3255.0	3211.4	4525.7	6190.9	7699.5	8335.8	8393.3
37.5°	3270.9	3195.6	3183.7	3205.5	3052.8	4275.9	6349.5	8191.1	8869.1	8956.3
40°	3136.1	3066.7	3064.7	3060.8	2878.4	3935.0	6563.6	8690.6	9394.4	9434.0
42.5°	3011.2	2924.0	2939.8	2892.3	2735.7	3566.3	6765.8	9116.9	9884.0	9911.8
45°	2900.2	2785.2	2803.1	2743.6	2668.3	3179.7	6944.2	9620.4	10504.5	10522.3
47.5°	2793.1	2670.2	2620.7	2616.7	2656.4	2822.9	7118.6	10589.7	11475.9	11507.6
50°	2694.0	2561.2	2420.5	2507.7	2583.0	2555.3	7336.7	11628.5	12478.9	12471.0
52.5°	2598.9	2424.4	2224.2	2392.7	2392.7	2357.0	7275.2	12258.9	13307.6	13444.3
55°	2489.8	2204.4	2020.0	2200.4	2113.2	2178.6	6186.9	12465.1	13828.9	14023.2
57.5°	2273.8	1932.8	1772.2	1869.4	1738.5	2020.0	4444.4	11442.2	12942.8	13287.7
60°	2065.6	1732.6	1627.5	1609.7	1439.2	1647.3	2880.4	8958.3	10653.2	10827.6
62.5°	1821.8	1560.1	1470.9	1334.1	1157.7	1199.3	1744.5	5895.5	7158.3	7197.9
65°	1637.4	1413.4	1242.9	1080.4	947.6	870.3	1030.8	2842.7	3578.2	3530.6
67.5°	1405.5	1211.2	1048.7	931.7	822.7	725.5	685.9	844.5	955.5	923.8
70°	1250.9	1064.5	907.9	796.9	695.8	598.7	529.3	497.6	487.7	479.7
72.5°	1078.4	915.8	753.3	646.2	551.1	461.9	398.5	360.8	350.9	342.9
75°	860.3	707.7	559.0	457.9	374.7	311.2	269.6	237.9	231.9	224.0
77.5°	568.9	454.0	333.0	271.6	222.0	188.3	160.6	140.7	136.8	132.8
80°	313.2	261.7	204.2	164.5	132.8	115.0	105.1	93.2	91.2	89.2
82.5°	186.3	156.6	117.0	93.2	77.3	69.4	63.4	57.5	55.5	53.5
85°	93.2	73.3	51.5	43.6	39.6	35.7	35.7	29.7	27.8	27.8
87.5°	23.8	19.8	11.9	9.9	9.9	9.9	7.9	5.9	5.9	4.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)