

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: P640515

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640515
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-39)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-722-U-SLL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT 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: 21523.9 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

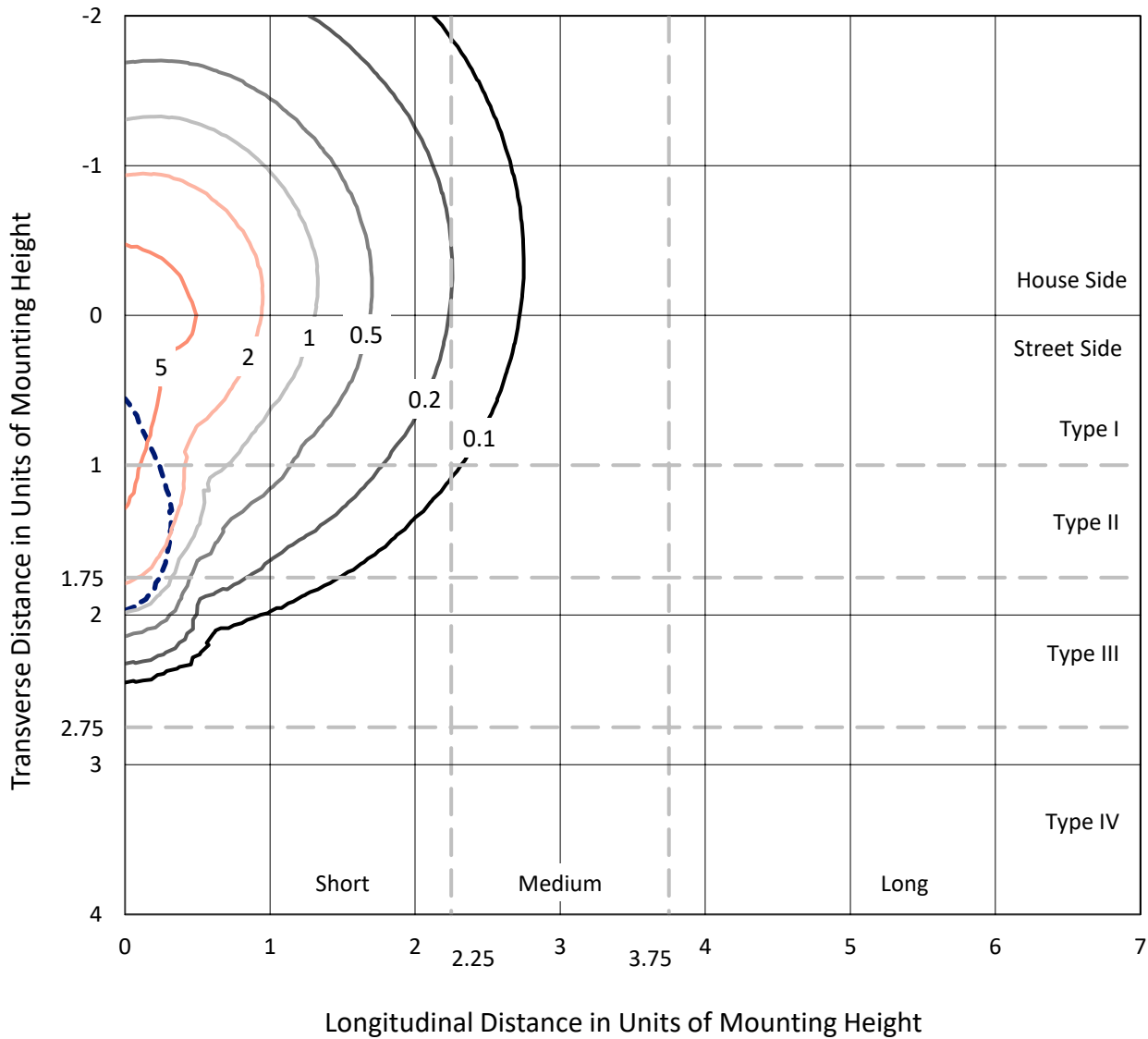
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

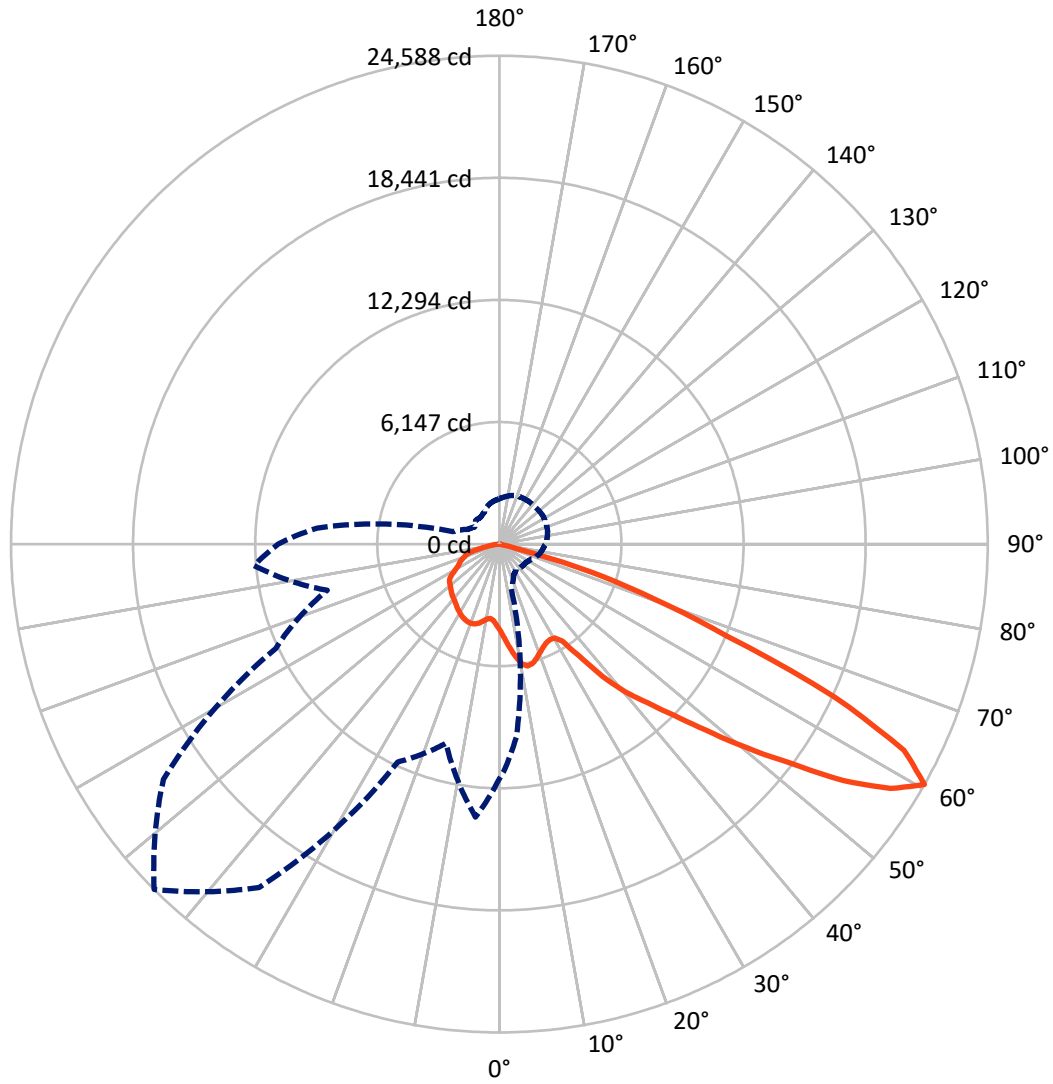
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7363.1	0.0	7363.1
	% Fixture	34.2	0.0	34.2
Street Side	Lumens	14160.8	0.0	14160.8
	% Fixture	65.8	0.0	65.8
Total	Lumens	21523.9	0.0	21523.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	424.1	2.0
10°-20°	1360.4	6.3
20°-30°	2215.5	10.3
30°-40°	3112.3	14.5
40°-50°	4258.9	19.8
50°-60°	5463.9	25.4
60°-70°	3679.2	17.1
70°-80°	919.8	4.3
80°-90°	89.7	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°	21523.9	100.0
0°-180°	21523.9	100.0

Coefficient of Utilization



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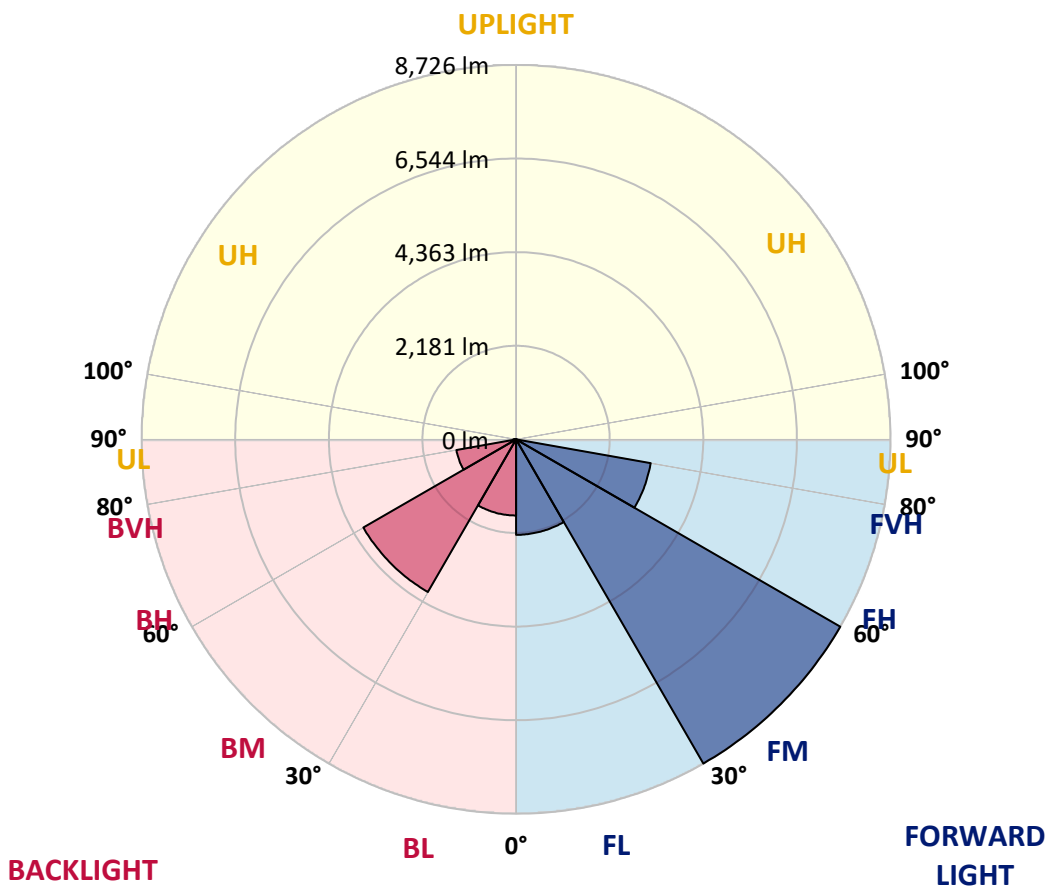
CATALOG NUMBER: GWS-SA5E-722-U-SLL-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2225.1	10.3			
FM (30°-60°)	8726.0	40.5			
FH (60°-80°)	3186.4	14.8			G2/5000
FVH (80°-90°)	23.3	0.1			G1/100
BL (0°-30°)	1775.0	8.2	B3/2500		
BM (30°-60°)	4109.2	19.1	B3/5000		
BH (60°-80°)	1412.6	6.6	B3/2500		G3/2500
BVH (80°-90°)	66.4	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°	4341.1	4341.1	4341.1	4341.1	4341.1	4341.1	4341.1	4341.1	4341.1	4341.1	4341.1
2.5°	4592.9	4583.0	4573.1	4495.8	4475.9	4420.4	4380.8	4331.2	4259.9	4220.2	4186.5
5°	4880.3	4864.5	4810.9	4652.4	4549.3	4436.3	4343.1	4240.0	4131.0	4059.7	4004.2
7.5°	5151.9	5147.9	5056.7	4795.1	4628.6	4466.0	4339.2	4188.5	4031.9	3924.9	3853.5
10°	5403.6	5373.9	5264.9	4923.9	4705.9	4519.5	4382.8	4216.3	4033.9	3889.2	3794.0
12.5°	5625.6	5588.0	5437.3	5042.9	4773.3	4543.3	4394.7	4257.9	4137.0	4016.1	3907.0
15°	5808.0	5762.4	5609.8	5153.9	4832.7	4529.5	4321.3	4214.3	4255.9	4309.4	4188.5
17.5°	5978.5	5930.9	5744.6	5235.1	4850.6	4444.2	4140.9	4095.3	4305.5	4549.3	4493.8
20°	6121.2	6067.7	5851.6	5274.8	4818.9	4281.7	3907.0	3986.3	4263.8	4555.2	4644.4
22.5°	6275.8	6232.2	5972.5	5332.3	4779.2	4057.7	3710.8	3905.0	4192.5	4448.2	4583.0
25°	6523.6	6470.1	6160.9	5433.4	4759.4	3847.6	3570.0	3825.8	4093.4	4325.3	4430.3
27.5°	6882.4	6783.3	6418.5	5609.8	4781.2	3649.3	3480.8	3728.6	3978.4	4176.6	4261.9
30°	7272.9	7154.0	6704.0	5792.2	4812.9	3528.4	3433.3	3617.6	3802.0	4000.2	4093.4
32.5°	7734.8	7629.7	7009.3	5928.9	4745.5	3472.9	3397.6	3496.7	3643.4	3802.0	3879.3
35°	8285.8	8097.5	7342.3	6039.9	4527.5	3391.6	3365.9	3363.9	3441.2	3595.8	3683.0
37.5°	8878.5	8676.3	7752.6	6158.9	4188.5	3262.8	3290.5	3207.3	3278.7	3401.6	3500.7
40°	9364.2	9152.1	8166.9	6321.4	3764.3	3060.6	3124.0	3034.8	3078.4	3205.3	3316.3
42.5°	9839.9	9613.9	8553.4	6505.8	3354.0	2862.4	2894.1	2860.4	2874.3	3007.1	3161.7
45°	10464.3	10210.6	9029.2	6636.6	2985.3	2705.8	2676.0	2618.6	2691.9	2864.4	3028.9
47.5°	11507.0	11203.7	9808.2	6721.8	2717.7	2616.6	2479.8	2446.1	2537.3	2729.6	2900.0
50°	12726.1	12464.4	11053.1	6717.9	2517.5	2541.3	2289.5	2259.8	2410.4	2604.7	2785.1
52.5°	13725.1	13459.5	12117.5	6519.6	2352.9	2380.7	2178.5	2095.2	2301.4	2481.8	2662.2
55°	14531.9	14232.6	12607.2	5691.1	2144.8	2125.0	2057.6	1904.9	2164.6	2358.9	2527.4
57.5°	14097.8	13741.0	12014.5	4327.3	1930.7	1805.8	1849.4	1736.5	1978.3	2222.1	2384.7
60°	11820.2	11499.1	9760.6	2303.4	1698.8	1508.5	1599.7	1617.5	1774.1	2057.6	2224.1
62.5°	8119.3	7885.4	6614.8	1397.5	1340.0	1211.2	1353.9	1482.7	1599.7	1839.5	1984.2
65°	3972.4	3903.1	3308.4	896.0	937.6	979.2	1122.0	1278.6	1451.0	1661.1	1813.8
67.5°	1094.2	1102.1	1003.0	699.7	739.4	854.4	967.3	1092.2	1264.7	1458.9	1613.6
70°	481.7	489.6	505.5	539.2	614.5	719.6	836.5	965.4	1123.9	1286.5	1435.2
72.5°	335.0	342.9	366.7	410.3	477.7	576.8	687.8	810.7	975.3	1112.0	1234.9
75°	206.2	212.1	233.9	271.6	317.2	392.5	501.5	614.5	759.2	884.1	993.1
77.5°	109.0	105.1	118.9	144.7	184.3	224.0	297.3	368.7	471.8	572.9	664.1
80°	59.5	57.5	65.4	79.3	91.2	122.9	172.5	220.0	279.5	337.0	386.5
82.5°	25.8	23.8	25.8	33.7	41.6	59.5	87.2	120.9	154.6	194.3	226.0
85°	0.0	0.0	0.0	2.0	9.9	15.9	29.7	43.6	63.4	87.2	107.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	17.8
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°	4341.1	4341.1	4341.1	4341.1	4341.1	4341.1	4341.1	4341.1	4341.1	4341.1	4341.1
2.5°	4166.7	4117.1	4113.2	4073.5	4077.5	4079.5	4039.8	4024.0	4037.9	4053.7	4045.8
5°	3984.3	3932.8	3911.0	3873.3	3869.4	3851.5	3835.7	3815.8	3829.7	3843.6	3851.5
7.5°	3825.8	3792.1	3778.2	3768.3	3772.2	3764.3	3732.6	3714.7	3712.8	3718.7	3726.6
10°	3774.2	3746.5	3764.3	3792.1	3811.9	3825.8	3792.1	3762.3	3734.6	3722.7	3722.7
12.5°	3885.2	3849.5	3885.2	3915.0	3954.6	3964.5	3926.9	3895.1	3885.2	3897.1	3920.9
15°	4131.0	4047.8	4045.8	4063.6	4095.3	4111.2	4075.5	4059.7	4059.7	4135.0	4194.5
17.5°	4376.8	4240.0	4182.6	4172.7	4192.5	4198.4	4168.7	4154.8	4190.5	4337.2	4448.2
20°	4549.3	4382.8	4257.9	4234.1	4240.0	4242.0	4218.2	4208.3	4259.9	4438.3	4531.4
22.5°	4531.4	4408.5	4255.9	4226.2	4236.1	4232.1	4210.3	4206.3	4248.0	4402.6	4446.2
25°	4408.5	4313.4	4184.5	4164.7	4180.6	4178.6	4156.8	4146.9	4164.7	4267.8	4271.8
27.5°	4267.8	4184.5	4073.5	4067.6	4093.4	4107.2	4069.6	4039.8	4033.9	4103.3	4087.4
30°	4099.3	4037.9	3948.7	3952.6	4000.2	4008.1	3962.5	3918.9	3907.0	3944.7	3922.9
32.5°	3899.1	3879.3	3831.7	3841.6	3887.2	3903.1	3855.5	3809.9	3796.0	3807.9	3762.3
35°	3728.6	3720.7	3724.7	3742.5	3782.1	3794.0	3754.4	3718.7	3698.9	3657.3	3597.8
37.5°	3552.2	3574.0	3631.5	3665.2	3687.0	3683.0	3661.2	3635.5	3603.7	3526.4	3453.1
40°	3387.7	3443.2	3546.3	3583.9	3591.8	3593.8	3578.0	3556.2	3516.5	3413.4	3330.2
42.5°	3260.8	3322.3	3459.0	3516.5	3520.5	3524.5	3508.6	3490.8	3435.3	3298.5	3217.2
45°	3128.0	3209.3	3369.8	3439.2	3435.3	3433.3	3419.4	3411.5	3346.0	3187.5	3098.3
47.5°	3015.0	3110.2	3282.6	3342.1	3340.1	3338.1	3328.2	3328.2	3262.8	3090.3	2989.2
50°	2904.0	3013.0	3193.4	3243.0	3246.9	3243.0	3239.0	3245.0	3167.6	2983.3	2884.2
52.5°	2783.1	2906.0	3094.3	3139.9	3163.7	3173.6	3173.6	3159.7	3068.5	2876.3	2767.2
55°	2650.3	2767.2	2985.3	3046.7	3066.6	3084.4	3084.4	3056.6	2971.4	2777.1	2660.2
57.5°	2485.7	2588.8	2761.3	2822.7	2870.3	2882.2	2882.2	2836.6	2767.2	2580.9	2485.7
60°	2307.3	2396.5	2513.5	2578.9	2614.6	2590.8	2608.6	2596.8	2541.3	2368.8	2289.5
62.5°	2069.5	2160.7	2289.5	2356.9	2372.8	2349.0	2372.8	2370.8	2295.5	2140.8	2045.7
65°	1899.0	1988.2	2115.1	2202.3	2228.1	2222.1	2238.0	2214.2	2121.0	1974.3	1883.1
67.5°	1696.8	1792.0	1938.6	2035.8	2089.3	2095.2	2117.0	2067.5	1972.3	1811.8	1696.8
70°	1504.5	1585.8	1698.8	1790.0	1865.3	1903.0	1906.9	1835.6	1716.6	1583.8	1500.6
72.5°	1302.3	1385.6	1522.4	1621.5	1716.6	1760.2	1760.2	1673.0	1544.2	1397.5	1308.3
75°	1056.5	1133.9	1258.7	1365.8	1474.8	1530.3	1528.3	1453.0	1310.3	1171.5	1078.3
77.5°	715.6	773.1	852.4	933.6	949.5	993.1	1014.9	919.8	840.5	765.2	681.9
80°	416.3	452.0	495.6	541.2	551.1	564.9	529.3	493.6	452.0	402.4	364.7
82.5°	243.8	267.6	289.4	325.1	331.0	335.0	303.3	287.4	253.7	224.0	200.2
85°	118.9	126.9	146.7	164.5	156.6	152.6	138.8	122.9	109.0	97.1	85.2
87.5°	23.8	23.8	35.7	33.7	27.8	23.8	13.9	17.8	4.0	4.0	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°	4341.1	4341.1	4341.1	4341.1	4341.1	4341.1	4341.1	4341.1	4341.1	4341.1	4341.1
2.5°	4071.6	4105.3	4146.9	4202.4	4265.8	4333.2	4398.6	4448.2	4497.7	4571.1	4559.2
5°	3863.4	3920.9	3986.3	4071.6	4174.6	4291.6	4422.4	4553.2	4694.0	4812.9	4864.5
7.5°	3742.5	3805.9	3883.2	3994.2	4127.1	4269.8	4454.1	4666.2	4894.2	5050.8	5147.9
10°	3742.5	3823.8	3924.9	4031.9	4148.9	4295.5	4523.5	4789.1	5082.5	5288.7	5401.6
12.5°	3958.6	4039.8	4061.6	4057.7	4123.1	4285.6	4579.0	4918.0	5268.8	5486.9	5625.6
15°	4295.5	4323.3	4158.8	4008.1	4018.0	4214.3	4604.8	5021.1	5429.4	5691.1	5841.7
17.5°	4521.5	4448.2	4154.8	3891.2	3835.7	4093.4	4604.8	5120.2	5599.9	5895.2	6036.0
20°	4539.4	4357.0	4053.7	3778.2	3635.5	3932.8	4573.1	5195.5	5764.4	6091.5	6242.1
22.5°	4382.8	4202.4	3946.7	3681.1	3470.9	3738.5	4521.5	5253.0	5905.1	6275.8	6462.2
25°	4204.4	4053.7	3837.6	3581.9	3357.9	3542.3	4474.0	5350.1	6101.4	6525.6	6713.9
27.5°	4029.9	3903.1	3706.8	3498.7	3294.5	3371.8	4444.2	5492.8	6335.3	6880.4	7043.0
30°	3859.5	3744.5	3566.1	3419.4	3260.8	3260.8	4418.4	5657.4	6644.5	7278.8	7441.4
32.5°	3687.0	3578.0	3433.3	3342.1	3241.0	3217.2	4347.1	5812.0	6963.7	7714.9	7881.5
35°	3526.4	3417.4	3306.4	3268.7	3231.1	3183.5	4170.7	5932.9	7274.9	8224.4	8367.1
37.5°	3375.8	3270.7	3187.5	3177.6	3181.5	3092.3	3893.2	6034.0	7663.4	8745.7	8821.0
40°	3245.0	3128.0	3062.6	3060.6	3080.4	2945.6	3542.3	6178.7	8107.4	9187.8	9156.0
42.5°	3128.0	3005.1	2925.8	2943.7	2931.8	2798.9	3199.4	6311.5	8494.0	9602.1	9538.6
45°	3013.0	2894.1	2783.1	2808.9	2795.0	2707.8	2908.0	6408.6	8922.1	10099.6	10107.5
47.5°	2902.0	2785.1	2674.1	2642.3	2640.4	2680.0	2684.0	6440.4	9619.9	10900.4	10720.0
50°	2798.9	2682.0	2567.0	2460.0	2501.6	2624.5	2517.5	6416.6	10664.5	11784.5	11281.0
52.5°	2691.9	2580.9	2454.0	2261.8	2370.8	2491.7	2368.8	6331.3	11302.8	12565.5	12264.2
55°	2569.0	2463.9	2291.5	2057.6	2190.4	2216.2	2216.2	5506.7	11574.4	13338.6	13524.9
57.5°	2404.5	2265.7	1992.2	1803.9	1922.8	1823.7	2053.6	3853.5	11126.4	13094.8	13818.3
60°	2218.1	2069.5	1780.1	1645.3	1681.0	1506.5	1750.3	2416.4	9221.5	11142.3	12395.1
62.5°	1972.3	1835.6	1595.7	1490.7	1417.3	1229.0	1409.4	1528.3	6321.4	8273.9	9128.3
65°	1807.8	1657.2	1443.1	1304.3	1153.7	989.1	935.6	1003.0	3399.6	4630.6	5207.4
67.5°	1613.6	1464.9	1262.7	1088.3	967.3	848.4	755.2	731.5	1165.6	1542.2	1669.1
70°	1429.2	1286.5	1118.0	955.4	834.5	717.6	626.4	561.0	539.2	535.2	527.3
72.5°	1240.9	1108.1	967.3	816.7	683.9	576.8	495.6	420.2	388.5	378.6	368.7
75°	1016.9	911.8	771.1	608.6	501.5	402.4	339.0	289.4	261.7	251.7	239.9
77.5°	654.1	606.6	483.7	392.5	303.3	239.9	206.2	174.4	156.6	152.6	142.7
80°	348.9	325.1	267.6	226.0	180.4	146.7	128.8	111.0	101.1	97.1	93.2
82.5°	194.3	176.4	148.7	130.8	105.1	89.2	79.3	71.4	65.4	63.4	61.4
85°	87.2	75.3	59.5	55.5	49.6	45.6	43.6	39.6	37.7	35.7	33.7
87.5°	4.0	7.9	9.9	7.9	7.9	11.9	13.9	13.9	11.9	11.9	9.9
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: P640515

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

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4341.1	4341.1	4341.1	4341.1	4341.1	4341.1	4341.1	4341.1	4341.1	4341.1
2.5°	4632.5	4692.0	4697.9	4717.8	4692.0	4686.1	4644.4	4620.6	4598.8	4592.9
5°	4993.3	5112.2	5159.8	5193.5	5161.8	5145.9	5054.8	4959.6	4906.1	4880.3
7.5°	5364.0	5542.4	5635.6	5677.2	5681.1	5609.8	5453.2	5274.8	5185.6	5151.9
10°	5695.0	5915.1	6038.0	6117.2	6089.5	6002.3	5788.2	5546.4	5433.4	5403.6
12.5°	5940.8	6150.9	6246.1	6297.6	6295.6	6248.1	6045.9	5784.2	5655.4	5625.6
15°	6099.4	6224.3	6230.2	6242.1	6275.8	6339.3	6234.2	5992.4	5849.6	5808.0
17.5°	6224.3	6174.7	6081.6	6049.8	6125.2	6301.6	6365.0	6168.8	6014.2	5978.5
20°	6303.6	6053.8	5889.3	5827.8	5915.1	6202.5	6444.3	6327.4	6166.8	6121.2
22.5°	6365.0	5940.8	5675.2	5633.6	5724.8	6095.4	6525.6	6515.7	6339.3	6275.8
25°	6462.2	5865.5	5524.5	5494.8	5580.1	6043.9	6634.6	6771.4	6614.8	6523.6
27.5°	6614.8	5857.6	5447.2	5437.3	5554.3	6089.5	6791.2	7146.0	6949.8	6882.4
30°	6826.9	5932.9	5465.1	5484.9	5627.6	6254.0	7035.0	7574.2	7378.0	7272.9
32.5°	7132.2	6135.1	5736.7	5821.9	5926.9	6517.7	7391.8	8038.1	7889.4	7734.8
35°	7534.6	6690.1	6539.5	6902.2	6803.1	7094.5	7822.0	8601.0	8420.6	8285.8
37.5°	8071.7	7827.9	7966.7	8466.2	8226.4	8184.7	8347.3	9112.4	9013.3	8878.5
40°	8825.0	8874.6	9130.3	9786.4	9439.5	9171.9	8991.5	9497.0	9530.7	9364.2
42.5°	9324.5	9552.5	10169.0	10914.3	10436.6	9796.3	9530.7	9988.6	9990.6	9839.9
45°	9510.9	10107.5	11396.0	12254.3	11455.5	10153.1	9828.0	10656.6	10636.8	10464.3
47.5°	9443.5	10575.3	12670.6	13982.8	12763.7	10406.8	9786.4	11608.1	11768.7	11507.0
50°	9302.7	11045.1	14159.3	16099.9	14369.4	10676.4	9723.0	12662.7	12928.3	12726.1
52.5°	9445.5	11568.4	15919.5	18288.3	16383.4	11106.6	10151.1	14016.5	13969.0	13725.1
55°	9897.4	12186.9	18058.4	21037.7	18595.5	11834.1	11251.3	15307.0	14823.3	14531.9
57.5°	9875.6	12629.0	19933.6	23212.2	20520.3	12430.7	11633.9	15443.8	14466.5	14097.8
60°	8963.8	12426.8	20647.2	24587.9	21101.1	12101.7	10375.1	13794.5	12206.7	11820.2
62.5°	6690.1	11027.3	19263.6	22865.3	19457.8	10452.4	7802.2	9901.4	8771.5	8119.3
65°	4279.7	8626.8	16195.0	18524.2	16038.4	7994.4	4646.4	5308.5	4158.8	3972.4
67.5°	1821.7	6089.5	12589.3	12381.2	11998.6	5179.6	1793.9	1494.6	1114.0	1094.2
70°	602.6	4142.9	7760.5	8258.1	7165.9	3568.1	592.7	501.5	499.5	481.7
72.5°	394.5	2224.1	4368.9	4864.5	4610.7	2053.6	358.8	335.0	342.9	335.0
75°	235.9	483.7	735.4	955.4	735.4	344.9	216.1	212.1	216.1	206.2
77.5°	138.8	134.8	130.8	130.8	128.8	118.9	109.0	105.1	107.0	109.0
80°	89.2	85.2	81.3	79.3	69.4	65.4	61.4	57.5	57.5	59.5
82.5°	57.5	53.5	49.6	43.6	35.7	29.7	27.8	23.8	23.8	25.8
85°	29.7	23.8	17.8	13.9	7.9	4.0	0.0	0.0	0.0	0.0
87.5°	5.9	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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