

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: P640794

Luminaire Tested: GWS-SA5E-750-U-SLR-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640794
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-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30044.6 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G3

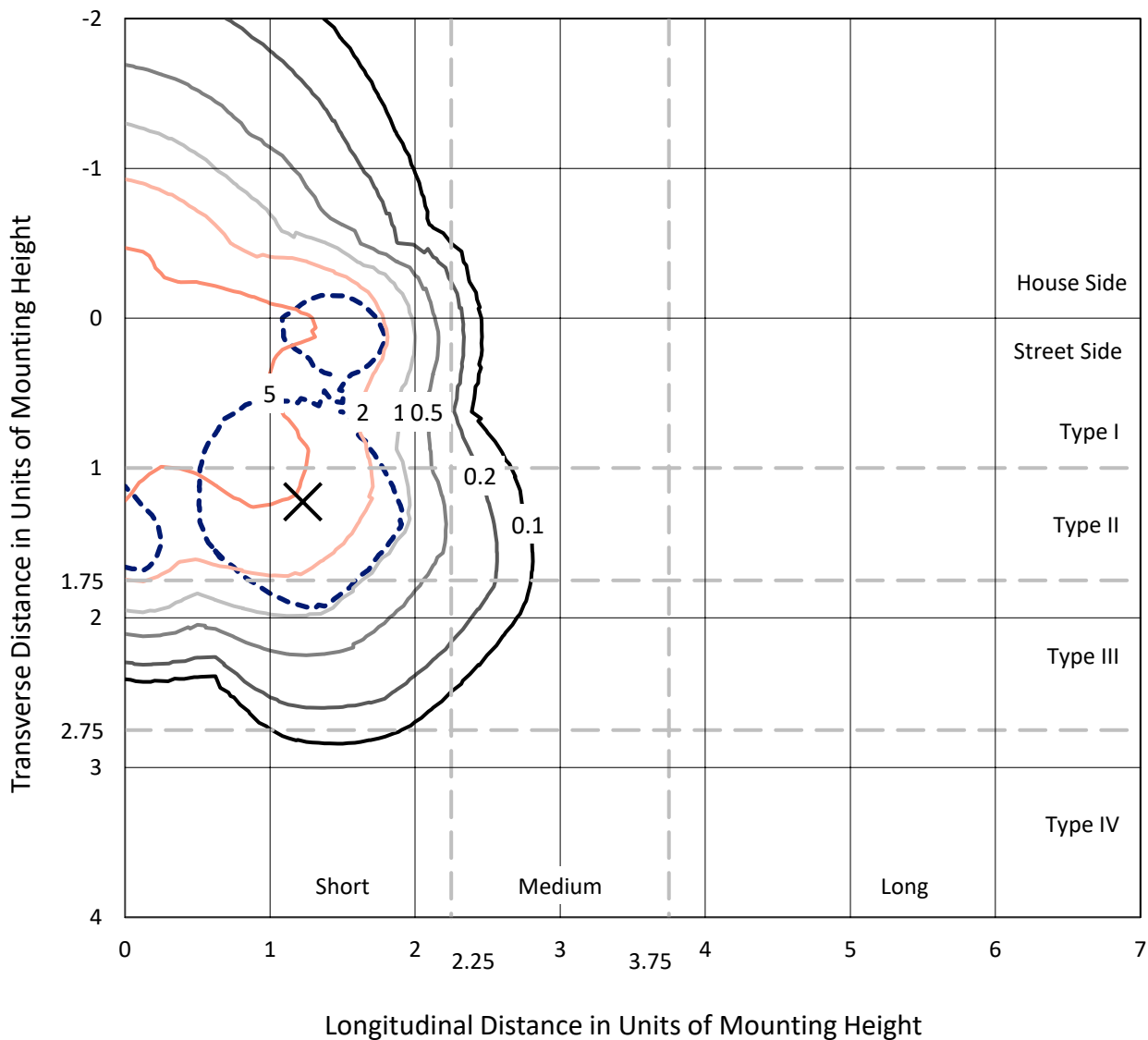
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P640794
 CATALOG NUMBER: GWS-SA5E-750-U-SLR-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

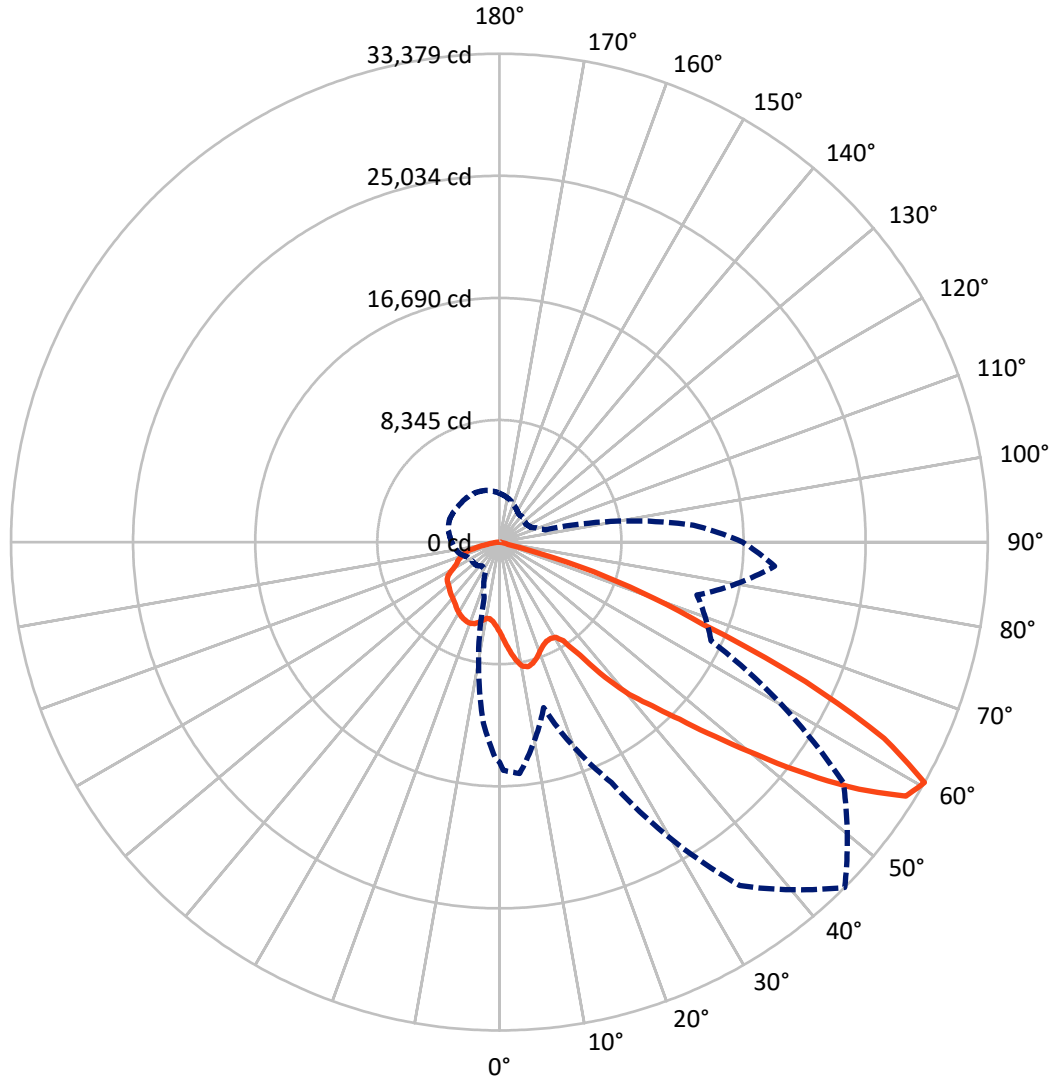
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.1 fc
 Type III - Short - N/A

REPORT NUMBER: P640794
CATALOG NUMBER: GWS-SA5E-750-U-SLR-W-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P640794

CATALOG NUMBER: GWS-SA5E-750-U-SLR-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10531.7	0.0	10531.7
	% Fixture	35.1	0.0	35.1
Street Side	Lumens	19512.9	0.0	19512.9
	% Fixture	64.9	0.0	64.9
Total	Lumens	30044.6	0.0	30044.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	602.2	2.0
10°-20°	1902.9	6.3
20°-30°	3091.1	10.3
30°-40°	4359.3	14.5
40°-50°	6024.4	20.1
50°-60°	7755.2	25.8
60°-70°	4913.8	16.4
70°-80°	1260.9	4.2
80°-90°	134.8	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°	30044.6	100.0
0°-180°	30044.6	100.0

Coefficient of Utilization



REPORT NUMBER: P640794

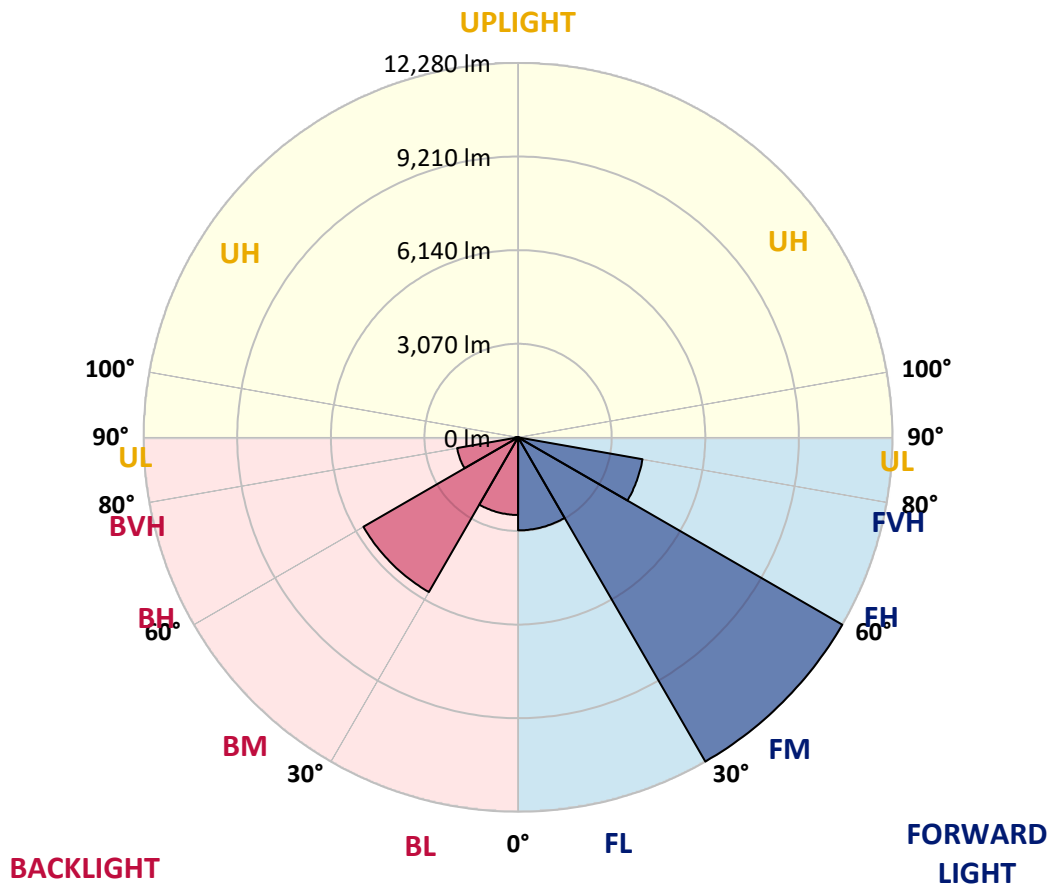
CATALOG NUMBER: GWS-SA5E-750-U-SLR-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3050.7	10.2			
FM (30°-60°)	12280.5	40.9			
FH (60°-80°)	4145.1	13.8			G2/5000
FVH (80°-90°)	36.6	0.1			G1/100
BL (0°-30°)	2545.5	8.5	B4/5000		
BM (30°-60°)	5858.5	19.5	B4/8500		
BH (60°-80°)	2029.6	6.8	B3/2500		G3/2500
BVH (80°-90°)	98.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type III Short





REPORT NUMBER: P640794

CATALOG NUMBER: GWS-SA5E-750-U-SLR-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6172.0	6172.0	6172.0	6172.0	6172.0	6172.0	6172.0	6172.0	6172.0	6172.0	6172.0
2.5°	6455.6	6499.6	6527.2	6579.5	6673.1	6725.4	6783.2	6719.9	6736.4	6728.1	6626.3
5°	6838.2	6890.6	6962.1	7116.3	7289.7	7386.1	7476.9	7463.2	7377.8	7234.7	7132.8
7.5°	7196.1	7256.7	7380.6	7631.1	7887.1	8035.8	8145.9	8074.3	8002.7	7777.0	7521.0
10°	7476.9	7512.7	7680.6	8016.5	8313.8	8481.7	8616.6	8600.1	8501.0	8247.7	7903.6
12.5°	7741.2	7766.0	7947.7	8283.5	8550.6	8624.9	8735.0	8770.8	8737.8	8547.8	8209.2
15°	8024.8	8071.6	8239.5	8495.5	8616.6	8539.6	8578.1	8677.2	8770.8	8770.8	8459.7
17.5°	8289.0	8330.3	8501.0	8611.1	8495.5	8291.8	8302.8	8429.4	8652.4	8886.4	8688.2
20°	8523.0	8561.6	8729.5	8624.9	8258.8	7961.4	7953.2	8107.3	8468.0	8960.7	8933.2
22.5°	8779.1	8834.1	8974.5	8635.9	8038.5	7661.4	7658.6	7818.3	8305.6	9035.1	9214.0
25°	9142.4	9227.8	9299.4	8732.3	7920.1	7465.9	7501.7	7653.1	8253.2	9156.2	9629.7
27.5°	9682.0	9750.8	9745.3	8933.2	7914.6	7386.1	7460.4	7636.6	8346.8	9370.9	10067.4
30°	10265.6	10301.4	10243.6	9214.0	8041.3	7435.6	7545.7	7755.0	8583.6	9726.1	10711.6
32.5°	10912.6	10956.6	10846.5	9635.2	8335.8	7801.8	8044.0	8145.9	8916.7	10238.1	11394.3
35°	11655.9	11741.2	11512.7	10191.3	9203.0	9136.9	9489.3	9357.2	9624.2	10843.7	12123.8
37.5°	12437.7	12440.4	12112.8	11014.4	10904.3	11017.2	11721.9	11309.0	11124.5	11518.2	12867.1
40°	13101.1	13084.6	12580.8	12123.8	12385.4	12834.1	13684.8	13051.6	12567.1	12423.9	13483.8
42.5°	13764.6	13704.0	13194.7	12828.6	13406.7	14328.9	15289.7	14513.4	13492.0	13247.0	14092.2
45°	14612.5	14593.2	13979.3	13109.4	14328.9	16002.7	17277.3	16019.2	14039.9	13726.0	15105.3
47.5°	15980.7	15887.1	14744.6	13087.4	15193.4	18232.6	19843.0	17916.0	14422.5	13737.1	16740.5
50°	17318.6	17203.0	15658.6	13084.6	16085.3	20545.0	22871.2	20220.2	14813.5	13803.1	18403.3
52.5°	18670.3	18670.3	17158.9	13395.7	17021.3	23127.3	26370.2	23091.5	15479.7	14667.5	20448.7
55°	19474.1	19688.9	18846.5	13921.5	18117.0	26166.5	29830.6	26191.3	16509.2	16228.4	22337.2
57.5°	18452.8	18854.7	18733.6	13555.4	18763.9	28399.1	32765.2	28542.3	17018.5	16412.9	22053.6
60°	15036.4	15595.3	15873.3	11705.4	18125.2	28657.9	33379.1	28696.4	15966.9	13976.6	18890.5
62.5°	9995.8	10455.6	10879.5	8363.4	15691.6	25781.1	29522.3	25789.3	13335.1	10430.8	13087.4
65°	4902.9	5244.3	5701.3	4944.2	12258.7	21541.6	23017.1	20839.6	9646.2	5838.9	6675.8
67.5°	1282.9	1379.2	1442.5	1918.8	8781.8	15476.9	15011.7	15242.9	6196.8	1907.8	1745.3
70°	666.2	671.7	669.0	792.8	5935.3	9836.2	10345.5	9571.9	4324.8	798.3	688.2
72.5°	476.3	479.0	470.7	534.1	2865.8	5635.2	5838.9	5775.6	2265.7	473.5	470.7
75°	311.1	313.8	308.3	313.8	432.2	641.4	591.9	622.2	377.1	300.1	300.1
77.5°	184.4	187.2	184.4	190.0	184.4	184.4	170.7	170.7	162.4	162.4	165.2
80°	123.9	123.9	121.1	126.6	115.6	115.6	110.1	107.4	99.1	96.4	96.4
82.5°	74.3	77.1	74.3	74.3	68.8	68.8	63.3	60.6	52.3	52.3	49.6
85°	38.5	38.5	35.8	35.8	30.3	27.5	22.0	22.0	16.5	13.8	13.8
87.5°	5.5	5.5	2.8	2.8	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



REPORT NUMBER: P640794

CATALOG NUMBER: GWS-SA5E-750-U-SLR-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6172.0	6172.0	6172.0	6172.0	6172.0	6172.0	6172.0	6172.0	6172.0	6172.0	6172.0
2.5°	6598.7	6543.7	6461.1	6381.3	6306.9	6229.9	6141.8	6050.9	5973.8	5894.0	5852.7
5°	6997.9	6885.0	6670.3	6480.4	6309.7	6169.3	6017.9	5888.5	5767.4	5668.3	5618.7
7.5°	7358.5	7182.4	6857.5	6557.4	6326.2	6133.5	5924.3	5731.6	5569.2	5448.0	5401.2
10°	7691.7	7482.4	7055.7	6675.8	6406.0	6191.3	5935.3	5673.8	5459.0	5299.4	5260.8
12.5°	7961.4	7721.9	7212.6	6772.2	6452.8	6221.6	5995.9	5770.1	5558.1	5351.7	5318.6
15°	8200.9	7917.4	7331.0	6832.7	6436.3	6141.8	5951.8	5924.3	5924.3	5690.3	5624.2
17.5°	8407.4	8096.3	7427.4	6860.3	6331.7	5905.0	5789.4	6028.9	6298.7	6130.7	5982.1
20°	8644.2	8267.0	7507.2	6860.3	6139.0	5604.9	5593.9	6001.4	6400.5	6403.3	6246.4
22.5°	8883.7	8465.2	7600.8	6835.5	5874.7	5258.1	5461.8	5891.2	6246.4	6397.8	6290.4
25°	9271.8	8740.5	7749.5	6816.2	5566.4	5021.3	5343.4	5745.3	6045.4	6205.1	6136.3
27.5°	9764.6	9103.9	7975.2	6846.5	5260.8	4880.9	5216.8	5555.4	5827.9	5968.3	5918.8
30°	10315.2	9522.3	8217.5	6898.8	5040.6	4809.3	5065.4	5337.9	5580.2	5720.6	5698.5
32.5°	11017.2	9976.6	8426.7	6827.2	4916.7	4773.6	4905.7	5101.2	5335.2	5423.2	5442.5
35°	11856.8	10477.6	8586.4	6546.4	4803.8	4735.0	4732.3	4853.4	5018.6	5159.0	5172.7
37.5°	12630.4	11064.0	8762.5	6064.7	4600.1	4638.7	4528.5	4600.1	4762.5	4902.9	4958.0
40°	13395.7	11658.6	9007.5	5450.8	4333.1	4423.9	4294.6	4344.1	4473.5	4657.9	4746.0
42.5°	14139.0	12195.4	9266.3	4823.1	4066.1	4123.9	4027.5	4077.1	4212.0	4443.2	4542.3
45°	14948.3	12922.2	9467.3	4231.2	3834.8	3810.0	3733.0	3804.5	4008.2	4261.5	4379.9
47.5°	16479.0	14067.4	9599.4	3837.6	3710.9	3532.0	3443.9	3598.1	3829.3	4085.3	4228.5
50°	18348.2	15724.7	9560.9	3587.1	3603.6	3245.7	3215.4	3419.1	3666.9	3933.9	4090.8
52.5°	19829.3	17351.6	9123.2	3347.5	3394.3	3064.0	2975.9	3273.2	3510.0	3782.5	3944.9
55°	20960.7	17899.5	7779.7	3064.0	3053.0	2931.9	2747.4	3121.8	3353.1	3606.3	3782.5
57.5°	20038.5	16679.9	5767.4	2673.1	2607.0	2670.3	2491.4	2865.8	3160.3	3410.9	3567.8
60°	16630.4	13299.3	3212.7	2367.5	2180.3	2334.5	2306.9	2596.0	2951.1	3215.4	3350.3
62.5°	11289.7	8856.1	1905.0	1872.0	1767.4	1987.6	2133.5	2323.5	2673.1	2887.8	3014.4
65°	5627.0	4302.8	1266.3	1401.2	1415.0	1635.2	1910.5	2119.7	2411.6	2631.8	2758.4
67.5°	1632.5	1337.9	963.5	1070.9	1219.5	1395.7	1616.0	1863.7	2147.3	2408.8	2557.5
70°	704.7	713.0	765.3	891.9	1037.8	1219.5	1439.8	1682.0	1921.5	2122.5	2235.4
72.5°	498.3	517.5	575.4	704.7	842.4	1015.8	1236.1	1470.1	1643.5	1847.2	1965.6
75°	319.3	333.1	379.9	479.0	580.9	748.8	958.0	1172.7	1351.7	1497.6	1610.5
77.5°	176.2	178.9	217.5	275.3	344.1	451.5	605.6	773.6	905.7	988.3	1090.2
80°	101.9	101.9	121.1	156.9	198.2	264.3	349.6	432.2	512.0	564.3	613.9
82.5°	55.1	55.1	63.3	85.3	107.4	145.9	195.5	236.8	286.3	313.8	346.9
85°	16.5	16.5	22.0	30.3	38.5	55.1	77.1	99.1	121.1	140.4	159.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	6172.0	6172.0	6172.0	6172.0	6172.0	6172.0	6172.0	6172.0	6172.0	6172.0	6172.0
2.5°	5844.4	5805.9	5783.9	5756.4	5764.6	5739.8	5726.1	5734.3	5684.8	5734.3	5783.9
5°	5599.4	5544.4	5500.3	5464.5	5448.0	5415.0	5395.7	5395.7	5365.4	5415.0	5475.6
7.5°	5384.7	5340.7	5318.6	5296.6	5271.8	5241.6	5208.5	5197.5	5178.2	5230.5	5282.8
10°	5241.6	5247.1	5260.8	5291.1	5285.6	5266.3	5216.8	5189.2	5189.2	5249.8	5329.6
12.5°	5307.6	5365.4	5398.5	5453.5	5464.5	5448.0	5398.5	5376.4	5431.5	5522.4	5654.5
15°	5563.6	5602.2	5629.7	5673.8	5671.0	5657.2	5618.7	5635.2	5816.9	5993.1	6111.5
17.5°	5841.7	5797.6	5792.1	5819.7	5827.9	5811.4	5789.4	5863.7	6163.8	6329.0	6389.5
20°	6042.7	5891.2	5858.2	5869.2	5891.2	5883.0	5883.0	6004.1	6315.2	6392.3	6315.2
22.5°	6103.2	5888.5	5838.9	5841.7	5872.0	5874.7	5888.5	6015.1	6196.8	6199.6	6081.2
25°	6006.9	5800.4	5764.6	5770.1	5805.9	5803.2	5808.7	5880.2	5960.1	5927.0	5838.9
27.5°	5825.2	5646.2	5635.2	5665.5	5712.3	5687.5	5671.0	5690.3	5728.8	5687.5	5610.4
30°	5618.7	5467.3	5472.8	5530.6	5580.2	5538.9	5497.6	5508.6	5511.3	5467.3	5379.2
32.5°	5401.2	5288.4	5307.6	5368.2	5426.0	5382.0	5337.9	5332.4	5280.1	5227.8	5142.5
35°	5183.7	5139.7	5164.5	5214.0	5263.6	5227.8	5200.3	5183.7	5070.9	4993.8	4922.2
37.5°	4985.5	5018.6	5062.6	5092.9	5109.4	5106.7	5090.1	5051.6	4902.9	4812.1	4718.5
40°	4809.3	4911.2	4958.0	4971.8	4996.5	4991.0	4988.3	4933.2	4737.8	4641.4	4534.1
42.5°	4649.7	4792.8	4872.7	4886.4	4900.2	4902.9	4894.7	4814.9	4591.9	4479.0	4377.1
45°	4495.5	4682.7	4784.6	4770.8	4790.1	4790.1	4798.3	4693.7	4448.7	4333.1	4225.7
47.5°	4360.6	4580.9	4674.5	4657.9	4668.9	4677.2	4685.5	4564.3	4291.8	4181.7	4071.6
50°	4236.7	4470.7	4550.6	4556.1	4556.1	4575.3	4572.6	4454.2	4159.7	4041.3	3931.2
52.5°	4104.6	4357.9	4443.2	4479.0	4490.0	4498.3	4459.7	4322.1	4024.8	3881.6	3779.8
55°	3950.4	4242.2	4319.3	4366.1	4388.2	4382.6	4330.3	4189.9	3887.1	3744.0	3628.3
57.5°	3716.4	3994.5	4104.6	4126.6	4162.4	4140.4	4079.8	3961.4	3666.9	3523.7	3405.4
60°	3460.4	3661.4	3749.5	3768.7	3741.2	3749.5	3741.2	3628.3	3372.3	3259.5	3138.3
62.5°	3124.6	3303.5	3397.1	3421.9	3375.1	3405.4	3394.3	3253.9	2997.9	2879.6	2772.2
65°	2871.3	3066.8	3176.9	3190.6	3176.9	3190.6	3152.1	2981.4	2739.2	2618.0	2507.9
67.5°	2673.1	2874.0	2989.7	3028.2	3014.4	3011.7	2951.1	2752.9	2502.4	2370.3	2229.9
70°	2331.7	2507.9	2656.6	2750.2	2750.2	2697.9	2582.2	2397.8	2196.8	2084.0	1973.8
72.5°	2064.7	2287.7	2433.6	2529.9	2549.2	2518.9	2356.5	2161.0	1929.8	1816.9	1701.3
75°	1701.3	1918.8	2075.7	2202.3	2227.1	2194.1	2006.9	1814.2	1599.4	1489.3	1373.7
77.5°	1137.0	1266.3	1393.0	1508.6	1483.8	1505.8	1379.2	1233.3	1101.2	1018.6	966.3
80°	641.4	726.8	765.3	828.6	828.6	828.6	746.0	677.2	602.9	556.1	503.8
82.5°	363.4	418.4	435.0	487.3	501.0	503.8	448.7	404.7	357.9	333.1	297.3
85°	167.9	198.2	201.0	231.2	242.3	264.3	239.5	209.2	181.7	170.7	148.7
87.5°	5.5	16.5	22.0	41.3	55.1	63.3	68.8	68.8	57.8	52.3	44.0
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: P640794

CATALOG NUMBER: GWS-SA5E-750-U-SLR-W-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6172.0	6172.0	6172.0	6172.0	6172.0	6172.0	6172.0	6172.0	6172.0	6172.0
2.5°	5844.4	5910.5	5987.6	6042.7	6141.8	6224.3	6309.7	6403.3	6472.1	6455.6
5°	5549.9	5660.0	5800.4	5929.8	6114.2	6301.4	6507.9	6719.9	6843.8	6838.2
7.5°	5384.7	5541.6	5712.3	5885.7	6103.2	6373.0	6689.6	7019.9	7187.9	7196.1
10°	5472.8	5640.7	5756.4	5902.3	6130.7	6469.4	6849.3	7245.7	7438.4	7476.9
12.5°	5750.8	5737.1	5728.8	5833.4	6108.7	6538.2	7003.4	7476.9	7694.4	7741.2
15°	6015.1	5731.6	5560.9	5632.5	6009.6	6582.2	7154.8	7730.2	7975.2	8024.8
17.5°	6064.7	5635.2	5318.6	5368.2	5852.7	6596.0	7300.7	7978.0	8242.2	8289.0
20°	5927.0	5511.3	5142.5	5073.6	5654.5	6560.2	7391.6	8184.4	8473.5	8523.0
22.5°	5753.6	5401.2	5010.3	4831.4	5412.2	6524.4	7493.4	8401.9	8735.0	8779.1
25°	5571.9	5260.8	4886.4	4613.9	5136.9	6502.4	7664.1	8688.2	9090.1	9142.4
27.5°	5379.2	5090.1	4779.1	4509.3	4883.7	6529.9	7906.4	9150.7	9607.7	9682.0
30°	5172.7	4919.5	4710.2	4473.5	4710.2	6554.7	8173.4	9624.2	10161.0	10265.6
32.5°	4958.0	4762.5	4638.7	4490.0	4602.9	6496.9	8407.4	10155.5	10821.7	10912.6
35°	4743.3	4602.9	4547.8	4520.3	4459.7	6284.9	8597.4	10692.3	11576.0	11655.9
37.5°	4542.3	4437.7	4421.2	4451.5	4239.5	5938.0	8817.6	11375.1	12316.6	12437.7
40°	4355.1	4258.8	4256.0	4250.5	3997.2	5464.5	9114.9	12068.8	13046.1	13101.1
42.5°	4181.7	4060.6	4082.6	4016.5	3799.0	4952.5	9395.7	12660.7	13726.0	13764.6
45°	4027.5	3867.8	3892.6	3810.0	3705.4	4415.7	9643.5	13359.9	14587.7	14612.5
47.5°	3878.9	3708.2	3639.4	3633.9	3688.9	3920.2	9885.7	14706.1	15936.6	15980.7
50°	3741.2	3556.8	3361.3	3482.4	3587.1	3548.5	10188.5	16148.6	17329.6	17318.6
52.5°	3609.1	3366.8	3088.8	3322.8	3322.8	3273.2	10103.2	17024.0	18480.3	18670.3
55°	3457.7	3061.2	2805.2	3055.7	2934.6	3025.5	8591.9	17310.3	19204.4	19474.1
57.5°	3157.6	2684.1	2461.1	2596.0	2414.3	2805.2	6172.0	15889.8	17973.8	18452.8
60°	2868.5	2406.1	2260.1	2235.4	1998.6	2287.7	4000.0	12440.4	14794.2	15036.4
62.5°	2529.9	2166.5	2042.7	1852.7	1607.7	1665.5	2422.6	8187.2	9940.8	9995.8
65°	2273.9	1962.8	1726.1	1500.3	1315.9	1208.5	1431.5	3947.7	4969.0	4902.9
67.5°	1951.8	1682.0	1456.3	1293.9	1142.5	1007.6	952.5	1172.7	1326.9	1282.9
70°	1737.1	1478.3	1260.8	1106.7	966.3	831.4	735.0	691.0	677.2	666.2
72.5°	1497.6	1271.8	1046.1	897.5	765.3	641.4	553.3	501.0	487.3	476.3
75°	1194.8	982.8	776.3	635.9	520.3	432.2	374.4	330.4	322.1	311.1
77.5°	790.1	630.4	462.5	377.1	308.3	261.5	223.0	195.5	190.0	184.4
80°	435.0	363.4	283.6	228.5	184.4	159.7	145.9	129.4	126.6	123.9
82.5°	258.8	217.5	162.4	129.4	107.4	96.4	88.1	79.8	77.1	74.3
85°	129.4	101.9	71.6	60.6	55.1	49.6	49.6	41.3	38.5	38.5
87.5°	33.0	27.5	16.5	13.8	13.8	13.8	11.0	8.3	8.3	5.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)