

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: P643649

Luminaire Tested: GWS-SA6F-735-U-SLL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643649  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-38)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6F-735-U-SLL-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

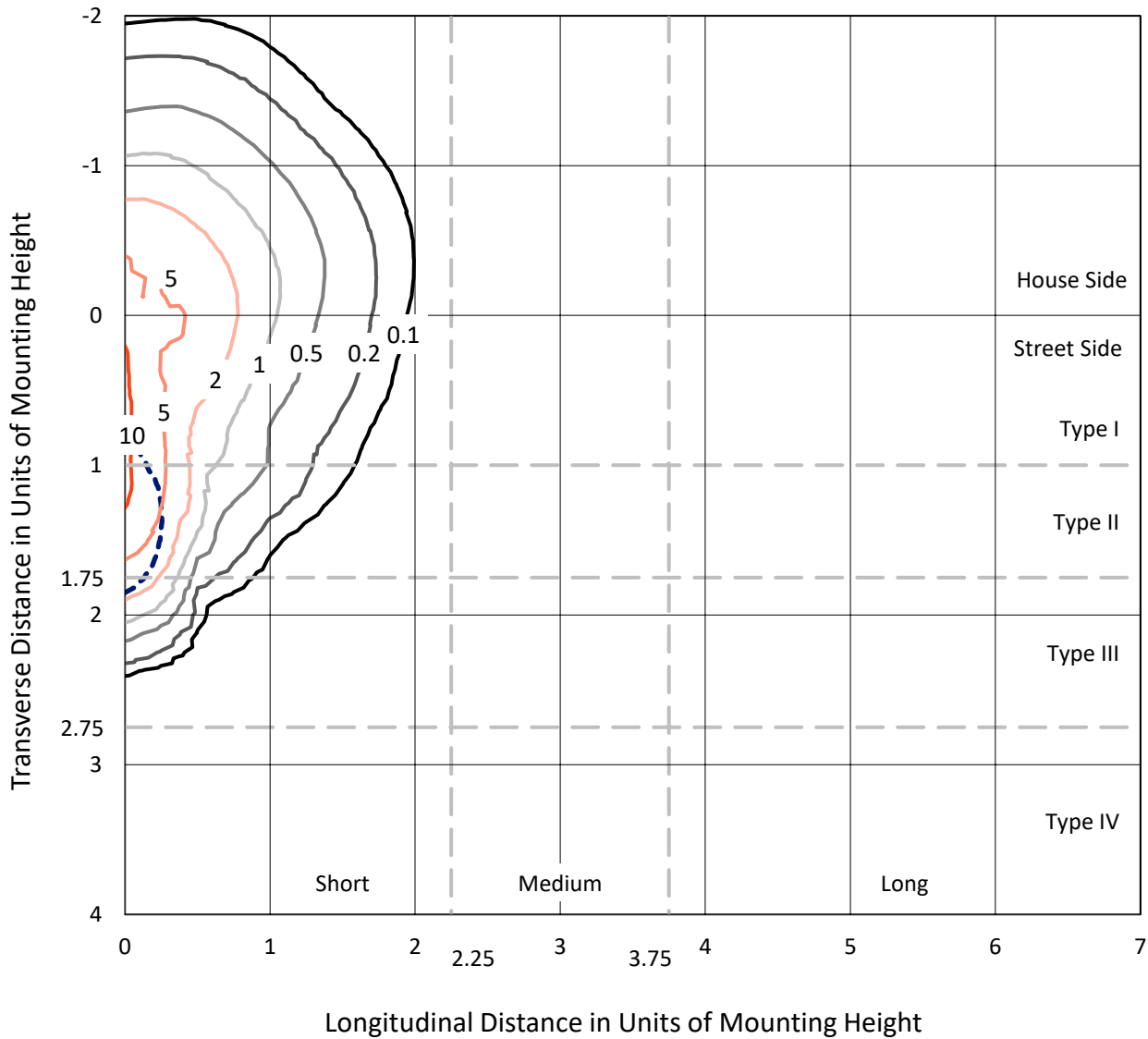
Lumens per Lamp: N/A  
Luminaire Lumens: 26321.9 lumens  
Efficiency: N/A  
Efficacy: 70.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

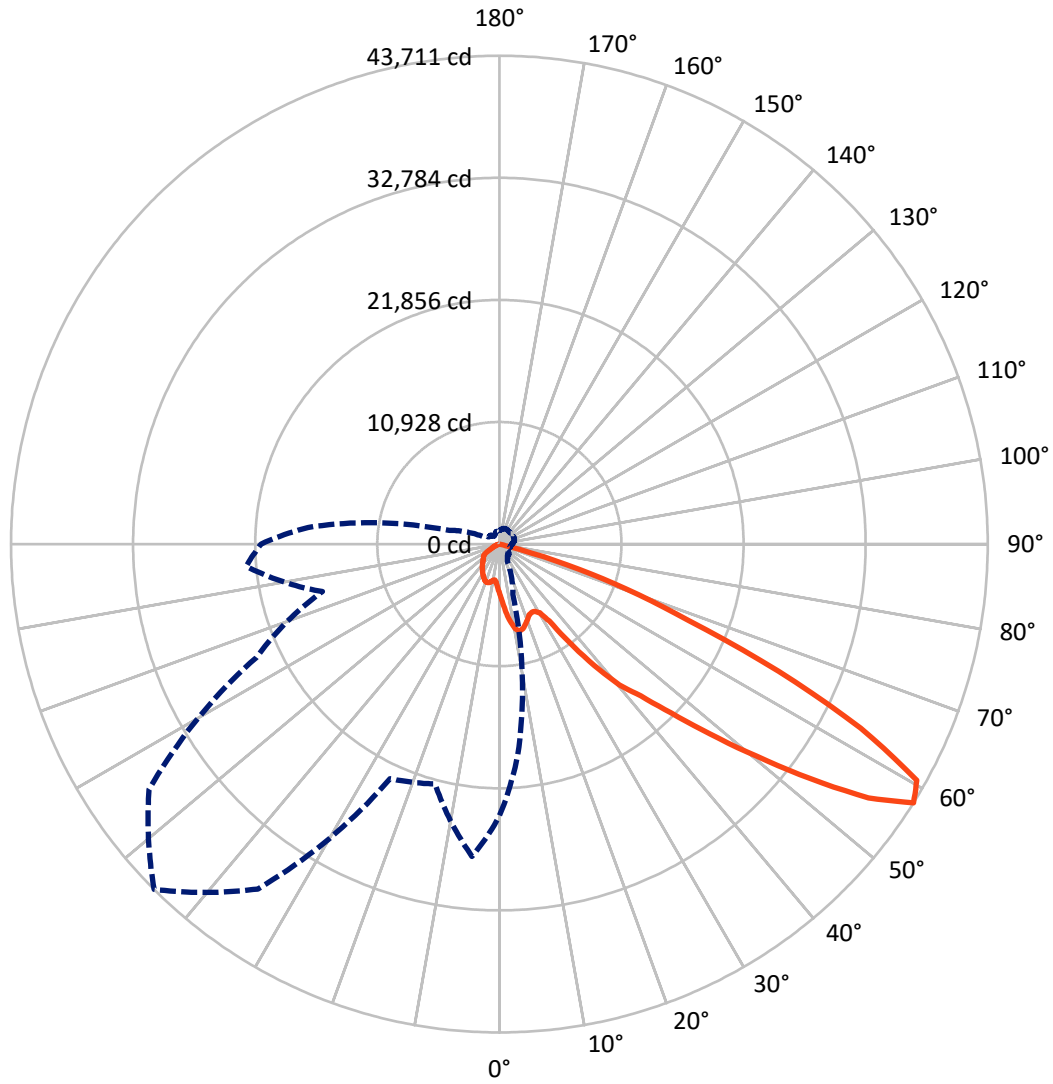
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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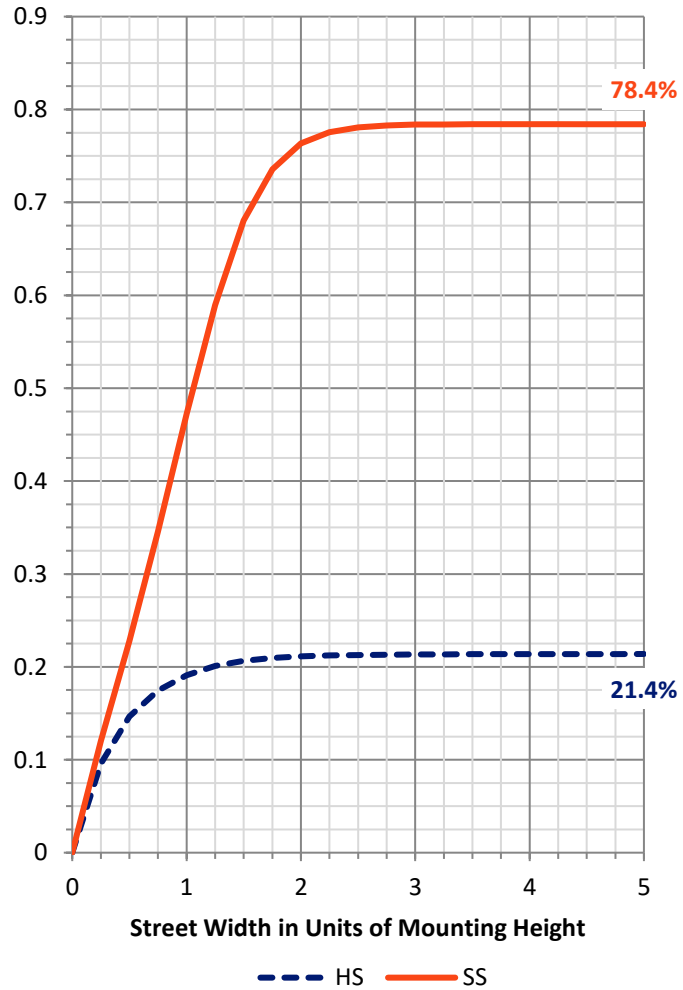
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5670.6	0.0	5670.6
	% Fixture	21.5	0.0	21.5
<b>Street Side</b>	Lumens	20651.3	0.0	20651.3
	% Fixture	78.5	0.0	78.5
<b>Total</b>	Lumens	26321.9	0.0	26321.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	442.1	1.7
10°-20°	1454.6	5.5
20°-30°	2360.6	9.0
30°-40°	3623.0	13.8
40°-50°	5786.1	22.0
50°-60°	8101.7	30.8
60°-70°	4153.9	15.8
70°-80°	399.9	1.5
80°-90°	0.0	0.0
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°	26321.9	100.0
0°-180°	26321.9	100.0

**Coefficient of Utilization**



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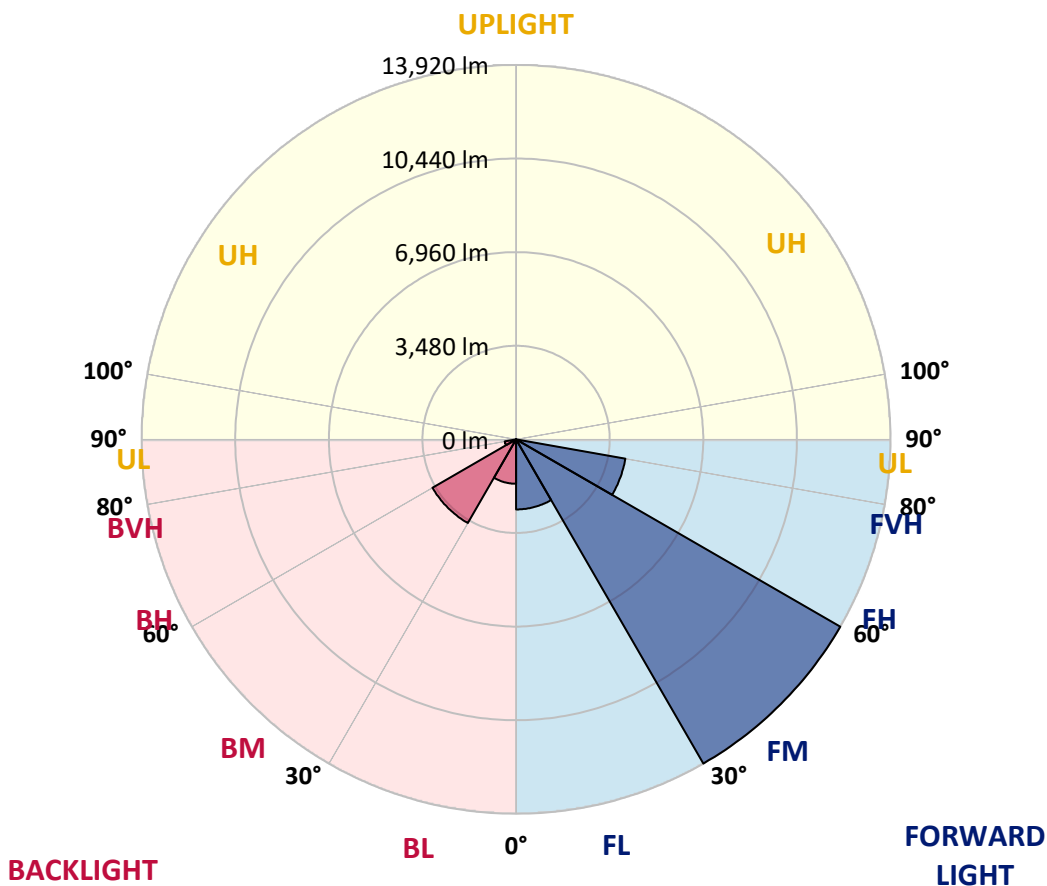
CATALOG NUMBER: GWS-SA6F-735-U-SLL-W-GRSBK

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2606.0	9.9			
FM (30°-60°)	13919.6	52.9			
FH (60°-80°)	4125.6	15.7			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1651.2	6.3	B3/2500		
BM (30°-60°)	3591.1	13.6	B3/5000		
BH (60°-80°)	428.3	1.6	B1/500		G1/500
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4472.5	4472.5	4472.5	4472.5	4472.5	4472.5	4472.5	4472.5	4472.5	4472.5	4472.5
2.5°	4968.6	4958.1	4922.9	4803.3	4729.4	4613.2	4528.8	4419.7	4300.1	4226.2	4152.3
5°	5496.5	5468.3	5373.3	5098.8	4887.7	4659.0	4476.0	4275.4	4060.8	3920.0	3789.8
7.5°	6003.2	5961.0	5834.3	5369.8	5049.6	4722.3	4461.9	4169.9	3867.2	3656.1	3494.2
10°	6499.3	6404.3	6203.8	5633.7	5200.9	4806.8	4500.6	4166.3	3810.9	3543.5	3364.0
12.5°	6907.5	6837.2	6562.7	5883.5	5327.6	4824.4	4447.8	4138.2	3898.9	3719.4	3554.1
15°	7259.4	7182.0	6921.6	6108.8	5436.7	4754.0	4226.2	3955.2	3993.9	4064.3	3923.5
17.5°	7583.2	7502.2	7220.7	6295.3	5478.9	4581.6	3916.5	3786.3	4001.0	4264.9	4212.1
20°	7917.5	7826.0	7481.1	6446.6	5464.8	4310.6	3603.3	3642.0	3944.7	4247.3	4275.4
22.5°	8308.0	8213.0	7811.9	6640.1	5454.2	3986.9	3332.4	3515.3	3839.1	4096.0	4145.2
25°	8825.3	8712.7	8272.9	6925.1	5482.4	3691.3	3138.8	3392.2	3659.6	3891.9	3920.0
27.5°	9508.0	9363.7	8804.2	7277.0	5542.2	3459.0	3054.4	3223.3	3430.9	3638.5	3663.1
30°	10398.3	10215.3	9413.0	7583.2	5514.1	3297.2	2998.1	3054.4	3177.5	3346.4	3350.0
32.5°	11439.8	11190.0	10095.6	7847.1	5271.3	3177.5	2920.7	2882.0	2910.1	3040.3	3064.9
35°	12664.4	12340.7	10848.7	8096.9	4827.9	2945.3	2779.9	2649.7	2639.2	2702.5	2762.3
37.5°	14068.4	13681.4	11798.8	8417.1	4303.6	2702.5	2572.3	2442.1	2385.8	2417.5	2509.0
40°	15363.4	14934.1	12791.1	8804.2	3768.7	2484.3	2329.5	2195.8	2128.9	2139.5	2252.1
42.5°	16883.5	16440.1	14005.1	9310.9	3325.3	2336.5	2076.1	1938.9	1850.9	1900.2	2030.4
45°	19191.9	18688.7	15775.1	9750.8	2973.4	2301.3	1854.4	1660.9	1618.7	1703.1	1858.0
47.5°	22344.8	21729.0	18206.6	10018.2	2674.3	2333.0	1699.6	1435.7	1446.3	1541.3	1696.1
50°	25473.1	24808.0	21018.2	9666.3	2428.0	2269.7	1622.2	1259.8	1326.6	1411.1	1551.8
52.5°	27623.1	26757.5	22387.0	8649.4	2202.8	2030.4	1615.2	1094.4	1221.0	1249.2	1368.8
55°	27707.6	26641.3	21686.8	6819.6	1896.7	1713.7	1541.3	957.1	1104.9	1115.5	1217.5
57.5°	24287.2	23323.1	18952.6	4683.6	1685.5	1256.2	1228.1	837.5	907.9	995.8	1059.2
60°	18477.6	17657.7	14174.0	2146.5	1280.9	798.8	841.0	721.4	679.1	809.3	872.7
62.5°	11316.7	10792.4	8501.6	950.1	816.4	425.8	510.2	573.6	510.2	559.5	612.3
65°	4493.6	4261.3	3226.8	404.7	334.3	214.7	232.2	334.3	358.9	394.1	443.4
67.5°	781.2	739.0	541.9	179.5	137.2	130.2	112.6	154.8	218.2	242.8	281.5
70°	102.0	98.5	88.0	73.9	70.4	63.3	49.3	98.5	147.8	154.8	179.5
72.5°	24.6	21.1	21.1	17.6	21.1	7.0	7.0	52.8	105.6	109.1	126.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.6	66.9	73.9	88.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	4472.5	4472.5	4472.5	4472.5	4472.5	4472.5	4472.5	4472.5	4472.5	4472.5	4472.5
2.5°	4092.4	4022.1	3997.4	3962.2	3916.5	3930.6	3867.2	3846.1	3877.8	3920.0	3909.5
5°	3719.4	3642.0	3589.2	3508.3	3494.2	3462.6	3441.5	3413.3	3448.5	3497.8	3508.3
7.5°	3423.9	3357.0	3304.2	3279.6	3262.0	3247.9	3205.7	3184.6	3184.6	3205.7	3223.3
10°	3297.2	3247.9	3237.4	3244.4	3272.5	3269.0	3230.3	3202.2	3167.0	3149.4	3170.5
12.5°	3473.1	3392.2	3378.1	3381.6	3416.8	3413.3	3371.1	3335.9	3328.8	3335.9	3402.7
15°	3772.2	3649.1	3557.6	3540.0	3557.6	3550.5	3518.9	3497.8	3508.3	3610.4	3723.0
17.5°	4039.7	3849.6	3684.3	3620.9	3617.4	3606.8	3575.2	3568.1	3620.9	3810.9	3976.3
20°	4117.1	3930.6	3694.8	3613.9	3596.3	3585.7	3550.5	3561.1	3628.0	3856.7	3997.4
22.5°	4015.0	3835.6	3589.2	3508.3	3494.2	3490.7	3455.5	3469.6	3525.9	3726.5	3842.6
25°	3821.5	3670.2	3413.3	3342.9	3342.9	3335.9	3304.2	3311.3	3346.4	3522.4	3635.0
27.5°	3585.7	3441.5	3226.8	3156.4	3167.0	3177.5	3138.8	3128.3	3156.4	3321.8	3388.7
30°	3314.8	3212.7	3043.8	2980.5	2977.0	3019.2	2966.4	2952.3	2991.0	3121.2	3135.3
32.5°	3050.9	3001.6	2882.0	2832.7	2836.2	2843.2	2815.1	2815.1	2850.3	2920.7	2917.1
35°	2794.0	2762.3	2741.2	2706.0	2702.5	2688.4	2688.4	2695.5	2734.2	2758.8	2713.0
37.5°	2547.7	2579.3	2604.0	2568.8	2540.6	2540.6	2540.6	2572.3	2607.5	2596.9	2519.5
40°	2329.5	2396.3	2473.8	2435.1	2368.2	2364.7	2378.8	2431.5	2484.3	2421.0	2350.6
42.5°	2143.0	2227.4	2336.5	2315.4	2241.5	2231.0	2241.5	2308.4	2350.6	2269.7	2192.3
45°	1960.0	2065.6	2195.8	2195.8	2114.8	2104.3	2107.8	2195.8	2220.4	2125.4	2026.9
47.5°	1805.2	1921.3	2058.5	2058.5	1991.7	1970.6	1988.2	2079.7	2097.2	1963.5	1872.0
50°	1657.4	1784.1	1935.4	1924.8	1879.1	1861.5	1893.2	1991.7	1970.6	1822.8	1727.8
52.5°	1470.9	1604.6	1812.2	1822.8	1798.1	1801.7	1840.4	1903.7	1843.9	1664.4	1583.5
55°	1302.0	1439.2	1646.8	1703.1	1703.1	1699.6	1717.2	1766.5	1717.2	1502.6	1404.0
57.5°	1119.0	1235.1	1407.5	1421.6	1432.2	1393.5	1418.1	1485.0	1460.3	1277.3	1221.0
60°	918.4	1017.0	1115.5	1126.0	1080.3	999.4	1045.1	1122.5	1140.1	1002.9	939.5
62.5°	651.0	746.0	862.1	862.1	816.4	735.4	795.3	862.1	837.5	696.7	658.0
65°	485.6	573.6	661.5	700.3	661.5	605.2	651.0	700.3	661.5	545.4	489.1
67.5°	313.2	373.0	425.8	457.5	464.5	457.5	478.6	464.5	418.7	341.3	309.7
70°	190.0	221.7	249.8	278.0	299.1	309.7	320.2	288.5	242.8	200.6	190.0
72.5°	137.2	165.4	190.0	211.1	235.8	242.8	242.8	221.7	179.5	140.8	130.2
75°	95.0	119.6	140.8	154.8	175.9	183.0	183.0	165.4	133.7	102.0	91.5
77.5°	3.5	24.6	24.6	21.1	28.2	35.2	35.2	42.2	38.7	28.2	24.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4472.5	4472.5	4472.5	4472.5	4472.5	4472.5	4472.5	4472.5	4472.5	4472.5	4472.5
2.5°	3930.6	4057.3	4092.4	4222.6	4338.8	4454.9	4595.6	4680.1	4806.8	4894.7	4944.0
5°	3543.5	3649.1	3775.7	3969.3	4169.9	4391.5	4659.0	4891.2	5183.3	5397.9	5468.3
7.5°	3262.0	3399.2	3547.0	3789.8	4064.3	4359.9	4736.4	5116.4	5563.3	5855.4	6041.9
10°	3209.2	3350.0	3547.0	3786.3	4074.8	4412.7	4873.6	5366.3	5925.8	6281.2	6492.3
12.5°	3462.6	3613.9	3698.3	3807.4	4025.6	4402.1	4993.3	5619.6	6277.7	6664.7	6889.9
15°	3835.6	3969.3	3832.0	3694.8	3835.6	4289.5	5060.1	5830.8	6587.3	7034.2	7266.5
17.5°	4092.4	4103.0	3803.9	3511.8	3550.5	4085.4	5084.8	6041.9	6918.1	7386.1	7628.9
20°	4067.8	3983.4	3680.7	3357.0	3237.4	3821.5	5056.6	6228.4	7252.4	7741.5	7980.8
22.5°	3877.8	3779.3	3522.4	3205.7	2973.4	3508.3	5007.3	6397.3	7558.5	8114.5	8339.7
25°	3649.1	3543.5	3332.4	3054.4	2804.5	3205.7	4968.6	6629.5	7945.6	8600.1	8776.1
27.5°	3381.6	3290.1	3110.7	2910.1	2734.2	2977.0	4958.1	6935.7	8413.6	9191.3	9314.4
30°	3121.2	3036.8	2896.0	2779.9	2706.0	2843.2	4922.9	7262.9	8973.1	9870.4	10004.1
32.5°	2871.4	2786.9	2699.0	2681.4	2684.9	2794.0	4803.3	7586.7	9638.2	10855.7	10954.2
35°	2656.7	2558.2	2523.0	2565.3	2642.7	2709.5	4465.4	7854.1	10352.5	11929.0	12009.9
37.5°	2452.7	2354.1	2350.6	2452.7	2537.1	2579.3	4067.8	8118.0	11316.7	13019.8	13121.9
40°	2266.2	2167.6	2202.8	2326.0	2392.8	2413.9	3585.7	8519.2	12337.2	14170.5	14114.2
42.5°	2107.8	2005.8	2026.9	2185.2	2245.0	2301.3	3142.3	8853.5	13318.9	15261.3	15243.7
45°	1953.0	1875.6	1861.5	2033.9	2086.7	2311.9	2818.6	9110.3	14582.2	16651.3	16679.4
47.5°	1801.7	1741.8	1745.4	1819.3	1949.5	2364.7	2544.1	9279.3	16415.5	18854.1	18365.0
50°	1664.4	1618.7	1657.4	1572.9	1861.5	2297.8	2308.4	9244.1	18463.5	20965.4	19983.6
52.5°	1513.1	1502.6	1520.2	1316.1	1720.7	2026.9	2086.7	8776.1	19424.1	22408.1	21848.6
55°	1358.3	1354.8	1214.0	1052.1	1439.2	1618.7	1787.6	7322.8	19392.5	23175.3	23854.4
57.5°	1175.3	1147.2	921.9	858.6	1119.0	1126.0	1629.2	4796.2	17186.1	21338.4	22746.0
60°	890.3	869.2	675.6	696.7	781.2	721.4	1298.5	2389.3	12843.9	16623.1	18210.1
62.5°	615.8	587.7	503.2	538.4	503.2	411.7	795.3	1182.3	7780.2	10496.8	11936.0
65°	450.4	418.7	344.8	295.6	235.8	235.8	302.6	453.9	3012.2	4461.9	5380.3
67.5°	278.0	263.9	204.1	147.8	144.3	154.8	158.3	225.2	485.6	774.2	946.6
70°	179.5	165.4	137.2	95.0	88.0	91.5	95.0	105.6	123.2	133.7	161.9
72.5°	123.2	116.1	98.5	52.8	42.2	45.7	49.3	49.3	59.8	56.3	66.9
75°	88.0	80.9	70.4	24.6	14.1	17.6	21.1	17.6	21.1	14.1	17.6
77.5°	24.6	24.6	17.6	3.5	0.0	3.5	7.0	7.0	3.5	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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



REPORT NUMBER: P643649

CATALOG NUMBER: GWS-SA6F-735-U-SLL-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4472.5	4472.5	4472.5	4472.5	4472.5	4472.5	4472.5	4472.5	4472.5	4472.5
2.5°	5070.7	5151.6	5183.3	5137.5	5176.3	5112.9	5088.3	4993.3	4986.2	4968.6
5°	5753.3	5936.3	6045.4	6112.3	6034.9	5950.4	5823.7	5605.6	5538.7	5496.5
7.5°	6425.5	6710.5	6897.0	6985.0	6963.8	6791.4	6562.7	6196.7	6066.5	6003.2
10°	7009.6	7358.0	7583.2	7692.2	7646.5	7495.2	7167.9	6710.5	6538.1	6499.3
12.5°	7417.8	7738.0	7892.8	7987.8	7991.3	7931.5	7621.9	7160.9	6956.8	6907.5
15°	7674.7	7811.9	7815.4	7871.7	7970.2	8104.0	7959.7	7551.5	7333.3	7259.4
17.5°	7836.5	7685.2	7530.4	7544.5	7706.3	8061.7	8209.5	7896.3	7664.1	7583.2
20°	7952.6	7474.1	7185.5	7189.0	7354.4	7892.8	8381.9	8230.6	7991.3	7917.5
22.5°	8026.5	7287.6	6875.9	6865.3	7041.3	7692.2	8540.3	8628.3	8392.5	8308.0
25°	8177.8	7199.6	6689.4	6749.2	6904.0	7628.9	8754.9	9156.1	8937.9	8825.3
27.5°	8448.8	7287.6	6671.8	6809.0	6985.0	7815.4	9127.9	9859.9	9634.7	9508.0
30°	8916.8	7618.3	6942.7	7132.7	7343.9	8304.5	9754.3	10841.6	10517.9	10398.3
32.5°	9669.8	8304.5	7780.2	8188.4	8392.5	9106.8	10693.8	11943.0	11679.1	11439.8
35°	10707.9	9870.4	9810.6	10760.7	10711.4	10627.0	11848.0	13294.3	12896.7	12664.4
37.5°	12136.6	12389.9	12833.3	13776.4	13744.7	13100.7	13364.7	14571.6	14367.5	14068.4
40°	13920.6	14459.0	15212.1	16563.3	16141.0	15331.7	15226.1	15880.6	15715.3	15363.4
42.5°	14972.8	15901.8	17337.5	18551.5	18213.7	16799.1	16679.4	17629.5	17267.1	16883.5
45°	15461.9	17077.1	19892.2	21535.5	20511.5	17773.8	17728.1	19909.8	19705.7	19191.9
47.5°	15687.1	18262.9	22883.2	25371.0	23456.8	18628.9	18463.5	23217.5	22950.1	22344.8
50°	15937.0	19899.2	26486.5	29815.4	27014.3	19596.6	19716.2	26300.0	26187.4	25473.1
52.5°	16485.9	21630.5	30923.8	34896.6	31328.5	21113.2	21866.2	29206.6	28446.5	27623.1
55°	17309.3	23516.6	35540.6	40086.9	35730.6	23150.6	24192.2	30751.4	28619.0	27707.6
57.5°	16397.9	23988.1	38274.7	43711.4	37683.6	23157.7	22225.2	28073.5	25170.5	24287.2
60°	13012.8	22316.7	37222.6	42926.7	36019.1	20564.3	17017.2	21919.0	19068.7	18477.6
62.5°	8797.2	18716.9	32767.7	36304.2	30828.8	16176.2	11059.8	14254.9	11805.8	11316.7
65°	4820.8	13962.9	26476.0	27464.8	24128.9	11299.1	5690.0	6186.2	4711.8	4493.6
67.5°	1330.1	9719.1	19480.5	18220.7	16929.3	7358.0	1470.9	1104.9	788.2	781.2
70°	334.3	6429.0	11672.1	12031.0	10380.7	4711.8	281.5	133.7	105.6	102.0
72.5°	140.8	2765.8	5538.7	6365.6	5313.5	2181.7	102.0	38.7	31.7	24.6
75°	17.6	221.7	471.5	714.3	489.1	235.8	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	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
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)