

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: P641343

Luminaire Tested: GWS-SA5F-760-U-SLR-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641343
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-42)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-760-U-SLR-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22465.3 lumens
Efficiency: N/A
Efficacy: 72.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

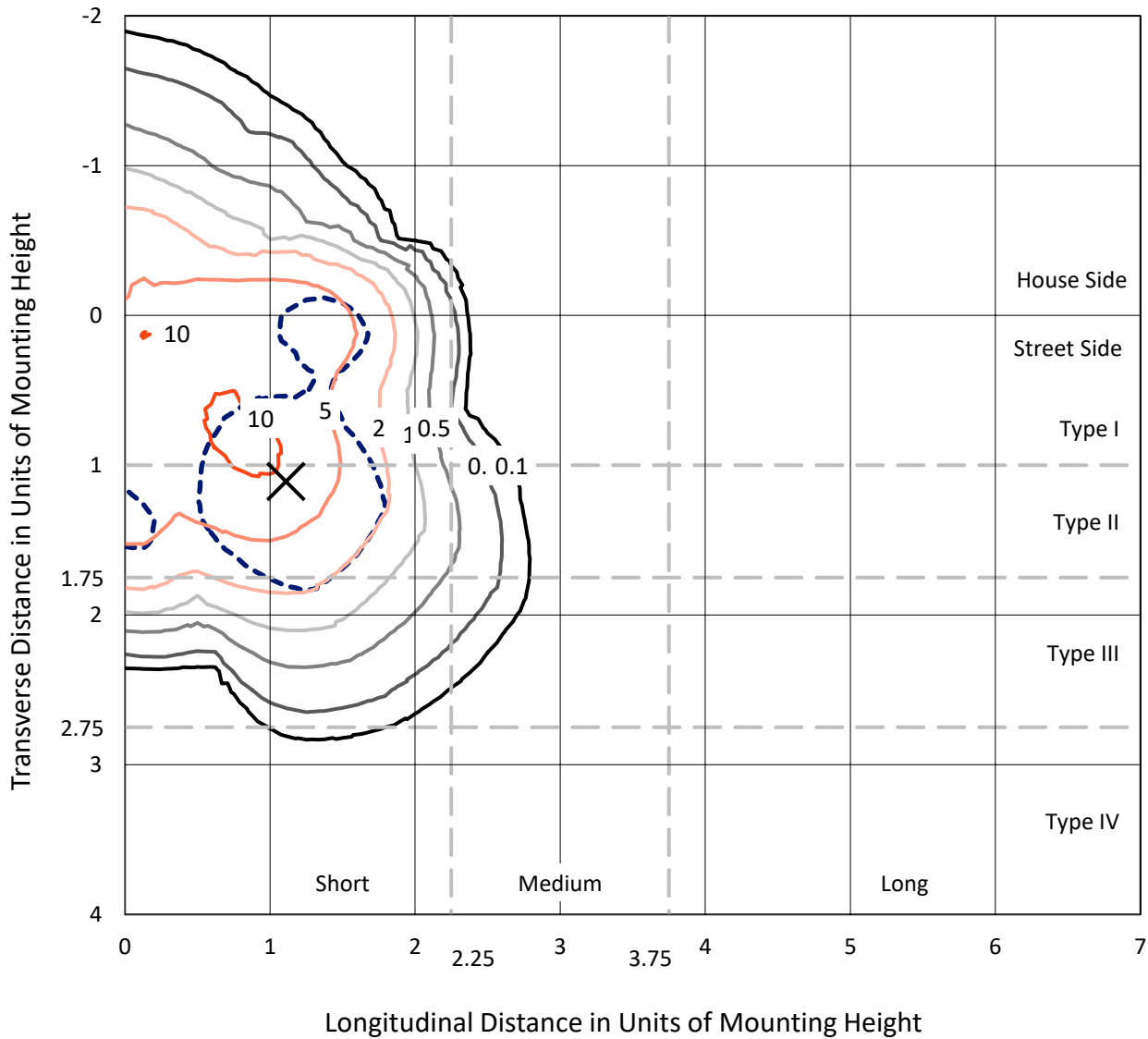
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

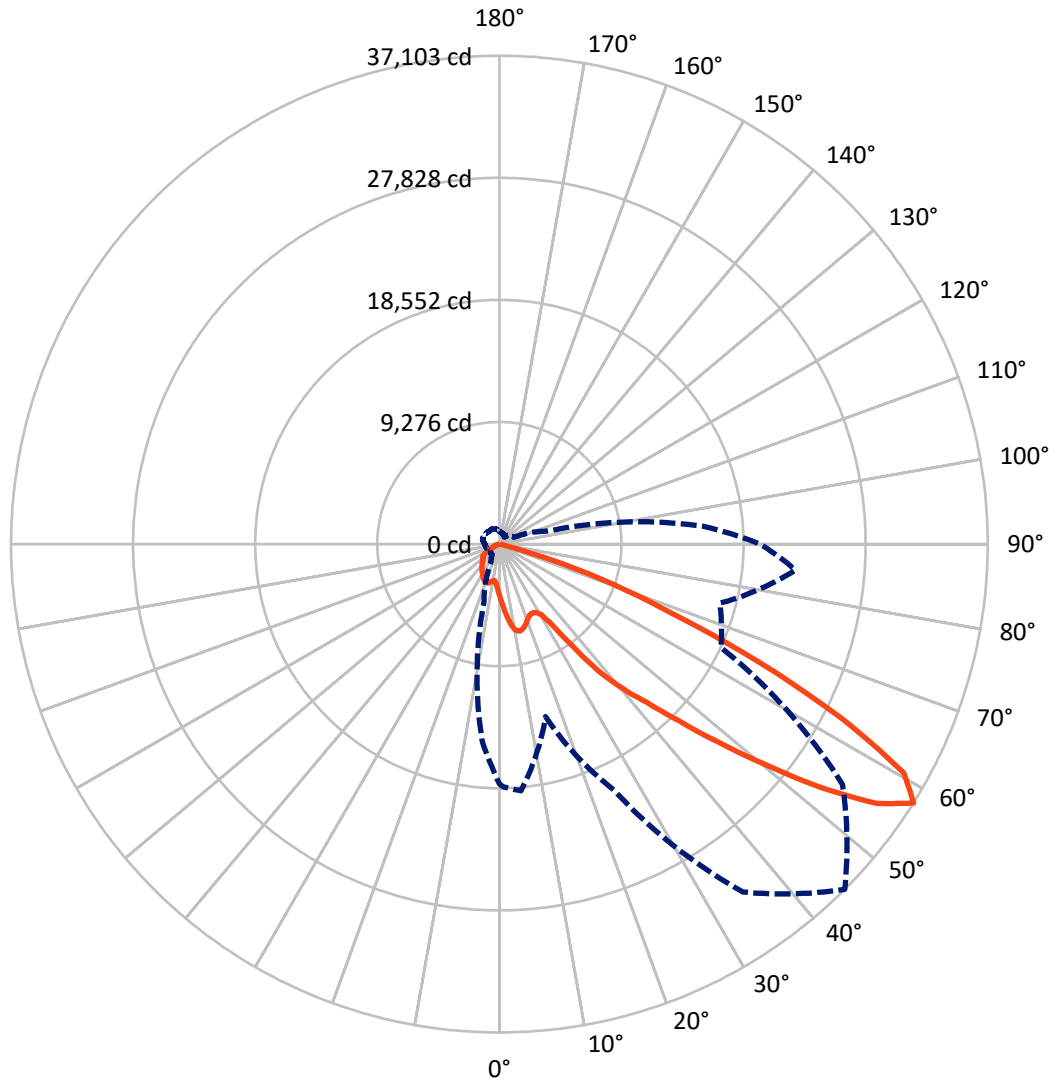
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5030.6	0.0	5030.6
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	17434.7	0.0	17434.7
	% Fixture	77.6	0.0	77.6
Total	Lumens	22465.3	0.0	22465.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.4	1.7
10°-20°	1256.6	5.6
20°-30°	2041.3	9.1
30°-40°	3154.0	14.0
40°-50°	5057.5	22.5
50°-60°	6912.3	30.8
60°-70°	3347.8	14.9
70°-80°	306.5	1.4
80°-90°	0.9	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°	22465.3	100.0
0°-180°	22465.3	100.0

Coefficient of Utilization



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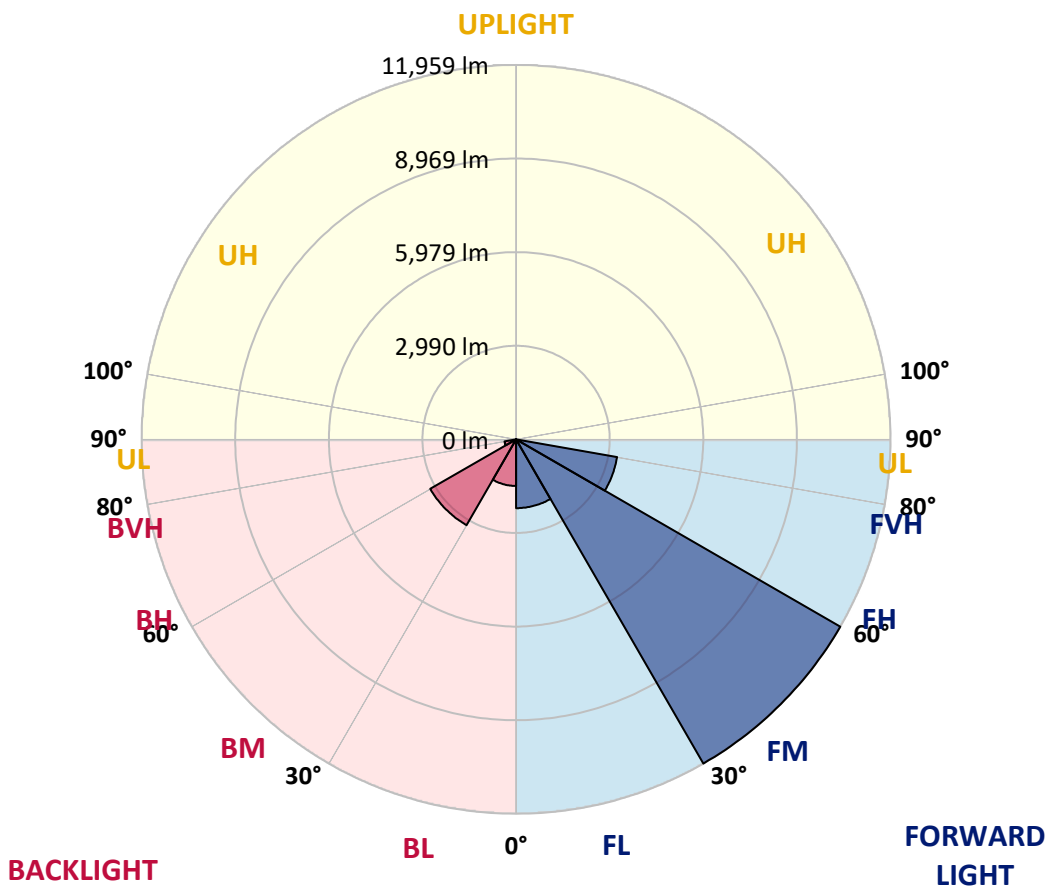
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2197.8	9.8			
FM (30°-60°)	11958.8	53.2			
FH (60°-80°)	3277.3	14.6			G2/5000
FVH (80°-90°)	0.9	0.0			G0/10
BL (0°-30°)	1488.5	6.6	B3/2500		
BM (30°-60°)	3165.0	14.1	B3/5000		
BH (60°-80°)	377.1	1.7	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°	3948.5	3948.5	3948.5	3948.5	3948.5	3948.5	3948.5	3948.5	3948.5	3948.5	3948.5
2.5°	4277.6	4304.7	4350.0	4446.6	4528.1	4582.5	4606.6	4600.6	4567.4	4543.2	4494.9
5°	4736.4	4736.4	4824.0	5044.3	5213.4	5319.0	5373.4	5340.2	5273.7	5168.1	5005.1
7.5°	5137.9	5153.0	5300.9	5614.9	5871.5	6022.4	6109.9	6091.8	5974.1	5771.8	5445.8
10°	5451.9	5470.0	5666.2	6049.6	6351.4	6505.4	6635.2	6647.3	6517.5	6248.8	5874.5
12.5°	5756.7	5774.9	5980.1	6348.4	6614.1	6677.5	6792.2	6837.5	6804.2	6614.1	6224.7
15°	6085.8	6128.1	6303.1	6577.8	6689.5	6614.1	6689.5	6771.0	6882.7	6864.6	6514.5
17.5°	6408.8	6439.0	6617.1	6713.7	6589.9	6393.7	6429.9	6526.5	6780.1	7027.6	6801.2
20°	6707.6	6749.9	6897.8	6771.0	6396.7	6091.8	6094.8	6221.6	6608.0	7127.3	7094.0
22.5°	7021.6	7085.0	7190.6	6834.4	6218.6	5853.3	5868.4	5983.2	6472.2	7220.8	7426.1
25°	7432.1	7492.5	7562.0	6991.4	6161.3	5735.6	5793.0	5898.6	6472.2	7380.8	7836.7
27.5°	7987.6	8029.9	8032.9	7284.2	6260.9	5753.7	5874.5	5995.2	6665.4	7700.8	8386.1
30°	8684.9	8751.3	8663.8	7740.1	6571.8	5995.2	6173.3	6324.3	7082.0	8241.2	9195.1
32.5°	9533.2	9626.8	9509.0	8416.3	7220.8	6828.4	7151.4	7238.9	7746.1	9023.0	10112.8
35°	10529.4	10607.9	10481.1	9352.1	8736.2	8808.7	9394.3	9282.6	9080.4	9986.0	11184.4
37.5°	11622.2	11694.6	11450.1	10770.9	10976.2	11290.1	12225.9	11842.5	11190.5	11226.7	12346.7
40°	12624.4	12702.9	12319.5	12313.5	12736.1	13309.6	14438.7	13910.4	13022.9	12850.8	13436.4
42.5°	13662.8	13717.2	13370.0	13134.6	14094.5	15274.8	16470.3	15757.8	14236.4	14049.2	14800.9
45°	15145.0	15259.8	14640.9	13539.1	15317.1	17535.9	19202.2	17810.6	15063.5	14912.6	16889.9
47.5°	17324.6	17409.1	16147.3	13792.6	16455.2	20352.4	22616.4	20473.1	15791.1	15446.9	19745.6
50°	19126.8	19184.1	17532.9	14070.4	17665.7	23389.2	26507.6	23630.7	16609.1	16331.4	22411.2
52.5°	20455.0	20672.4	19353.2	14640.9	19256.6	26960.4	30815.3	27371.0	17886.1	18040.0	24620.9
55°	20729.7	21025.6	20596.9	14991.1	20657.3	30598.0	34794.0	30718.7	19160.0	19335.1	25363.5
57.5°	18218.1	18453.6	18809.8	13578.3	20624.1	32264.3	37103.4	31829.6	18580.4	17339.7	22583.2
60°	13647.7	13810.8	14456.8	10378.4	18966.8	30791.2	35304.2	29939.9	16246.9	13231.2	17206.8
62.5°	8093.3	8165.7	8983.8	6722.7	15742.8	26516.7	29278.8	25834.4	12838.7	8899.3	10538.4
65°	3106.3	3076.1	3701.0	3317.6	11576.9	21122.2	21777.2	19694.3	8808.7	4078.3	4017.9
67.5°	480.0	458.8	618.8	981.1	8349.8	14637.9	14369.2	14194.1	5518.3	950.9	830.2
70°	108.7	108.7	132.8	289.8	5101.7	8600.4	9204.2	8775.5	3531.9	202.3	108.7
72.5°	51.3	51.3	63.4	123.8	1847.5	3544.0	4129.6	4066.2	1147.1	66.4	39.2
75°	18.1	21.1	21.1	27.2	111.7	184.1	422.6	301.9	72.4	0.0	0.0
77.5°	6.0	6.0	6.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	3.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.0	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°	3948.5	3948.5	3948.5	3948.5	3948.5	3948.5	3948.5	3948.5	3948.5	3948.5	3948.5
2.5°	4389.3	4368.1	4289.6	4184.0	4081.3	3990.8	3897.2	3785.5	3704.0	3610.4	3580.2
5°	4878.3	4745.5	4531.1	4307.7	4102.5	3927.4	3758.3	3577.2	3444.4	3311.6	3266.3
7.5°	5291.9	5095.6	4748.5	4413.4	4132.7	3885.1	3640.6	3393.1	3199.9	3042.9	2994.6
10°	5663.2	5436.8	4971.9	4558.3	4205.1	3918.3	3622.5	3311.6	3061.0	2873.8	2828.6
12.5°	5983.2	5720.5	5162.1	4667.0	4235.3	3906.3	3619.5	3371.9	3145.5	2931.2	2873.8
15°	6251.8	5962.0	5322.0	4739.4	4190.0	3755.3	3504.8	3465.5	3447.4	3211.9	3100.3
17.5°	6514.5	6188.4	5451.9	4772.6	4063.2	3489.7	3308.5	3486.6	3676.8	3522.9	3381.0
20°	6789.2	6417.9	5584.7	4778.7	3851.9	3190.8	3160.6	3441.4	3682.9	3634.6	3501.7
22.5°	7112.2	6704.6	5750.7	4775.7	3586.3	2937.2	3052.0	3353.8	3550.0	3547.0	3441.4
25°	7580.1	7066.9	5974.1	4793.8	3296.5	2741.0	2931.2	3205.9	3365.9	3359.9	3272.3
27.5°	8081.2	7498.6	6263.9	4839.0	3048.9	2626.3	2789.3	3003.7	3142.5	3136.5	3061.0
30°	8784.5	7996.7	6541.6	4842.1	2870.8	2565.9	2632.3	2780.3	2913.1	2898.0	2840.6
32.5°	9638.9	8558.1	6774.1	4670.0	2759.1	2508.6	2469.3	2544.8	2647.4	2626.3	2611.2
35°	10671.3	9225.3	6973.3	4292.7	2587.1	2393.9	2288.2	2303.3	2375.8	2387.8	2381.8
37.5°	11848.6	10019.2	7220.8	3794.6	2354.6	2227.8	2086.0	2073.9	2116.1	2155.4	2185.6
40°	13010.8	10912.8	7555.9	3290.4	2143.3	2016.5	1880.7	1850.5	1868.6	1938.0	2001.4
42.5°	14317.9	11948.2	7918.2	2858.8	1998.4	1784.1	1654.3	1596.9	1648.2	1759.9	1835.4
45°	16201.6	13400.2	8271.4	2514.6	1938.0	1578.8	1403.7	1397.7	1455.0	1599.9	1684.5
47.5°	18846.0	15277.9	8503.8	2245.9	1935.0	1418.8	1210.5	1246.7	1313.2	1455.0	1551.6
50°	21424.0	17629.5	8247.2	2040.7	1871.6	1313.2	1065.6	1138.1	1204.5	1328.2	1427.9
52.5°	22978.7	18894.3	7248.0	1847.5	1675.4	1264.9	923.7	1050.5	1062.6	1174.3	1279.9
55°	22815.7	18076.2	5551.5	1548.6	1385.6	1195.4	775.8	947.9	953.9	1038.4	1129.0
57.5°	19803.0	15519.4	3812.7	1255.8	1041.5	987.1	640.0	800.0	857.3	908.6	975.1
60°	14758.6	11323.3	1699.6	1020.3	661.1	667.1	546.4	603.7	691.3	751.7	809.0
62.5°	8697.0	6514.5	691.3	612.8	365.3	419.6	440.7	440.7	495.1	540.4	576.6
65°	3287.4	2279.2	280.7	307.9	190.2	196.2	259.6	320.0	362.2	401.5	449.8
67.5°	576.6	398.5	144.9	114.7	111.7	99.6	132.8	208.3	232.4	262.6	283.8
70°	96.6	81.5	60.4	57.4	51.3	54.3	87.5	147.9	163.0	172.1	181.1
72.5°	27.2	24.1	18.1	15.1	12.1	15.1	54.3	114.7	120.7	126.8	135.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	21.1	81.5	87.5	90.6	99.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.1	24.1	30.2	24.1
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°	3948.5	3948.5	3948.5	3948.5	3948.5	3948.5	3948.5	3948.5	3948.5	3948.5	3948.5
2.5°	3562.1	3501.7	3468.5	3450.4	3450.4	3426.3	3399.1	3390.0	3429.3	3429.3	3495.7
5°	3208.9	3160.6	3106.3	3073.1	3021.8	3030.8	3000.6	2997.6	3036.9	3055.0	3124.4
7.5°	2964.4	2904.0	2870.8	2849.7	2822.5	2810.5	2783.3	2774.2	2795.4	2825.5	2892.0
10°	2801.4	2792.3	2789.3	2804.4	2804.4	2789.3	2765.2	2750.1	2756.1	2813.5	2888.9
12.5°	2843.7	2861.8	2867.8	2892.0	2904.0	2892.0	2873.8	2879.9	2919.1	3024.8	3136.5
15°	3027.8	3012.7	3006.7	3018.7	3027.8	3015.7	3009.7	3055.0	3190.8	3341.8	3468.5
17.5°	3224.0	3127.4	3085.2	3085.2	3091.2	3085.2	3091.2	3178.7	3399.1	3550.0	3643.6
20°	3323.6	3145.5	3079.1	3064.0	3076.1	3079.1	3100.3	3199.9	3441.4	3547.0	3568.2
22.5°	3293.5	3070.1	2994.6	2982.5	2994.6	3006.7	3027.8	3112.3	3338.7	3393.1	3384.0
25°	3142.5	2922.1	2861.8	2861.8	2888.9	2885.9	2895.0	2955.4	3142.5	3175.7	3160.6
27.5°	2952.3	2744.0	2692.7	2722.9	2747.1	2741.0	2744.0	2795.4	2934.2	2943.3	2928.2
30°	2759.1	2578.0	2529.7	2565.9	2599.1	2593.1	2596.1	2647.4	2735.0	2725.9	2704.8
32.5°	2562.9	2430.1	2393.9	2415.0	2466.3	2460.3	2472.4	2526.7	2559.9	2520.7	2496.5
35°	2381.8	2312.4	2285.2	2297.3	2336.5	2345.6	2366.7	2402.9	2402.9	2354.6	2312.4
37.5°	2212.7	2203.7	2185.6	2170.5	2206.7	2233.9	2264.1	2306.3	2245.9	2176.5	2137.3
40°	2055.8	2095.0	2070.9	2031.6	2052.7	2092.0	2152.4	2185.6	2113.1	2043.7	1977.3
42.5°	1910.9	1977.3	1968.2	1919.9	1938.0	1974.3	2043.7	2070.9	1986.3	1907.8	1844.5
45°	1772.0	1865.6	1871.6	1811.2	1829.4	1865.6	1947.1	1956.1	1847.5	1762.9	1717.7
47.5°	1651.3	1753.9	1756.9	1711.6	1717.7	1769.0	1844.5	1847.5	1723.7	1645.2	1587.9
50°	1536.5	1654.3	1663.3	1624.1	1630.1	1690.5	1753.9	1741.8	1609.0	1527.5	1476.2
52.5°	1397.7	1557.7	1578.8	1560.7	1584.8	1633.1	1672.4	1630.1	1476.2	1394.7	1349.4
55°	1246.7	1455.0	1500.3	1488.2	1515.4	1554.7	1563.7	1536.5	1343.3	1261.8	1219.6
57.5°	1071.7	1198.4	1276.9	1252.8	1273.9	1313.2	1340.3	1319.2	1174.3	1110.9	1074.7
60°	887.5	972.0	990.1	950.9	932.8	1002.2	1065.6	1038.4	914.7	875.4	833.2
62.5°	649.0	745.6	757.7	706.4	685.3	760.7	815.1	787.9	652.0	609.8	576.6
65°	519.2	609.8	633.9	585.6	573.6	630.9	664.1	597.7	501.1	455.8	419.6
67.5°	341.1	413.6	477.0	473.9	449.8	467.9	443.8	389.4	320.0	295.8	271.7
70°	211.3	253.6	292.8	307.9	304.9	298.9	265.6	226.4	205.3	196.2	184.1
72.5°	163.0	205.3	235.5	244.5	247.5	238.5	211.3	175.1	154.0	141.9	132.8
75°	120.7	154.0	178.1	190.2	196.2	190.2	163.0	138.9	117.7	108.7	99.6
77.5°	42.3	51.3	63.4	69.4	66.4	63.4	57.4	57.4	45.3	42.3	36.2
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



REPORT NUMBER: P641343

CATALOG NUMBER: GWS-SA5F-760-U-SLR-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3948.5	3948.5	3948.5	3948.5	3948.5	3948.5	3948.5	3948.5	3948.5	3948.5
2.5°	3571.2	3625.5	3725.1	3815.7	3912.3	4011.9	4120.6	4232.3	4283.6	4277.6
5°	3230.1	3347.8	3510.8	3688.9	3888.1	4102.5	4341.0	4585.5	4691.1	4736.4
7.5°	3015.7	3181.8	3396.1	3622.5	3885.1	4190.0	4549.2	4932.6	5086.6	5137.9
10°	3042.9	3236.1	3414.2	3634.6	3915.3	4310.8	4757.5	5213.4	5394.5	5451.9
12.5°	3263.3	3305.5	3353.8	3534.9	3888.1	4401.3	4947.7	5491.1	5699.4	5756.7
15°	3462.5	3266.3	3175.7	3341.8	3791.5	4464.7	5140.9	5790.0	6019.4	6085.8
17.5°	3471.6	3175.7	2973.5	3103.3	3634.6	4491.9	5331.1	6094.8	6345.4	6408.8
20°	3359.9	3076.1	2816.5	2819.5	3420.2	4485.9	5488.1	6369.6	6650.3	6707.6
22.5°	3196.9	2958.4	2689.7	2596.1	3190.8	4473.8	5660.1	6662.4	6967.3	7021.6
25°	3015.7	2807.4	2569.0	2427.1	2961.4	4485.9	5901.6	7045.7	7380.8	7432.1
27.5°	2819.5	2641.4	2475.4	2360.7	2768.2	4531.1	6191.4	7534.8	7933.3	7987.6
30°	2614.2	2481.4	2415.0	2345.6	2647.4	4543.2	6505.4	8105.3	8609.5	8684.9
32.5°	2412.0	2339.5	2342.5	2354.6	2532.7	4458.7	6792.2	8739.3	9412.4	9533.2
35°	2224.8	2203.7	2264.1	2324.4	2366.7	4241.3	7042.7	9487.9	10405.6	10529.4
37.5°	2064.8	2082.9	2158.4	2218.8	2185.6	3933.4	7374.8	10423.7	11516.5	11622.2
40°	1910.9	1956.1	2043.7	2070.9	2046.7	3574.2	7773.3	11326.3	12479.5	12624.4
42.5°	1769.0	1802.2	1926.0	1932.0	2007.5	3208.9	8156.6	12298.4	13587.4	13662.8
45°	1654.3	1648.2	1775.0	1814.3	2058.8	2804.4	8531.0	13593.4	15036.4	15145.0
47.5°	1542.6	1536.5	1566.7	1744.8	2079.9	2430.1	8902.3	15489.2	17137.4	17324.6
50°	1436.9	1446.0	1352.4	1711.6	1965.2	2143.3	9071.3	17243.1	19048.3	19126.8
52.5°	1343.3	1310.1	1147.1	1603.0	1720.7	1871.6	8591.3	18040.0	20231.6	20455.0
55°	1210.5	1026.4	944.9	1301.1	1358.4	1633.1	7036.7	17578.1	20334.3	20729.7
57.5°	1035.4	806.0	803.0	960.0	960.0	1515.4	4507.0	15018.3	17523.8	18218.1
60°	796.9	624.9	664.1	667.1	615.8	1104.9	2529.7	10879.6	12956.5	13647.7
62.5°	567.5	477.0	501.1	398.5	353.2	552.4	1213.5	6263.9	7996.7	8093.3
65°	380.4	323.0	262.6	220.4	217.3	235.5	501.1	2264.1	2753.1	3106.3
67.5°	250.6	196.2	138.9	138.9	157.0	157.0	190.2	374.3	525.3	480.0
70°	163.0	135.8	87.5	84.5	102.6	102.6	96.6	102.6	108.7	108.7
72.5°	120.7	102.6	51.3	45.3	57.4	60.4	54.3	51.3	51.3	51.3
75°	90.6	72.4	30.2	21.1	27.2	36.2	30.2	21.1	21.1	18.1
77.5°	36.2	27.2	12.1	9.1	15.1	21.1	18.1	9.1	6.0	6.0
80°	3.0	6.0	6.0	6.0	9.1	12.1	15.1	6.0	3.0	3.0
82.5°	0.0	3.0	3.0	3.0	6.0	9.1	12.1	6.0	3.0	3.0
85°	0.0	0.0	0.0	0.0	6.0	9.1	6.0	3.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	3.0	9.1	6.0	3.0	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)