

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: P641229

Luminaire Tested: GWS-SA5F-740-U-SLL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641229
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-SA5F-740-U-SLL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22380.9 lumens
Efficiency: N/A
Efficacy: 72.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

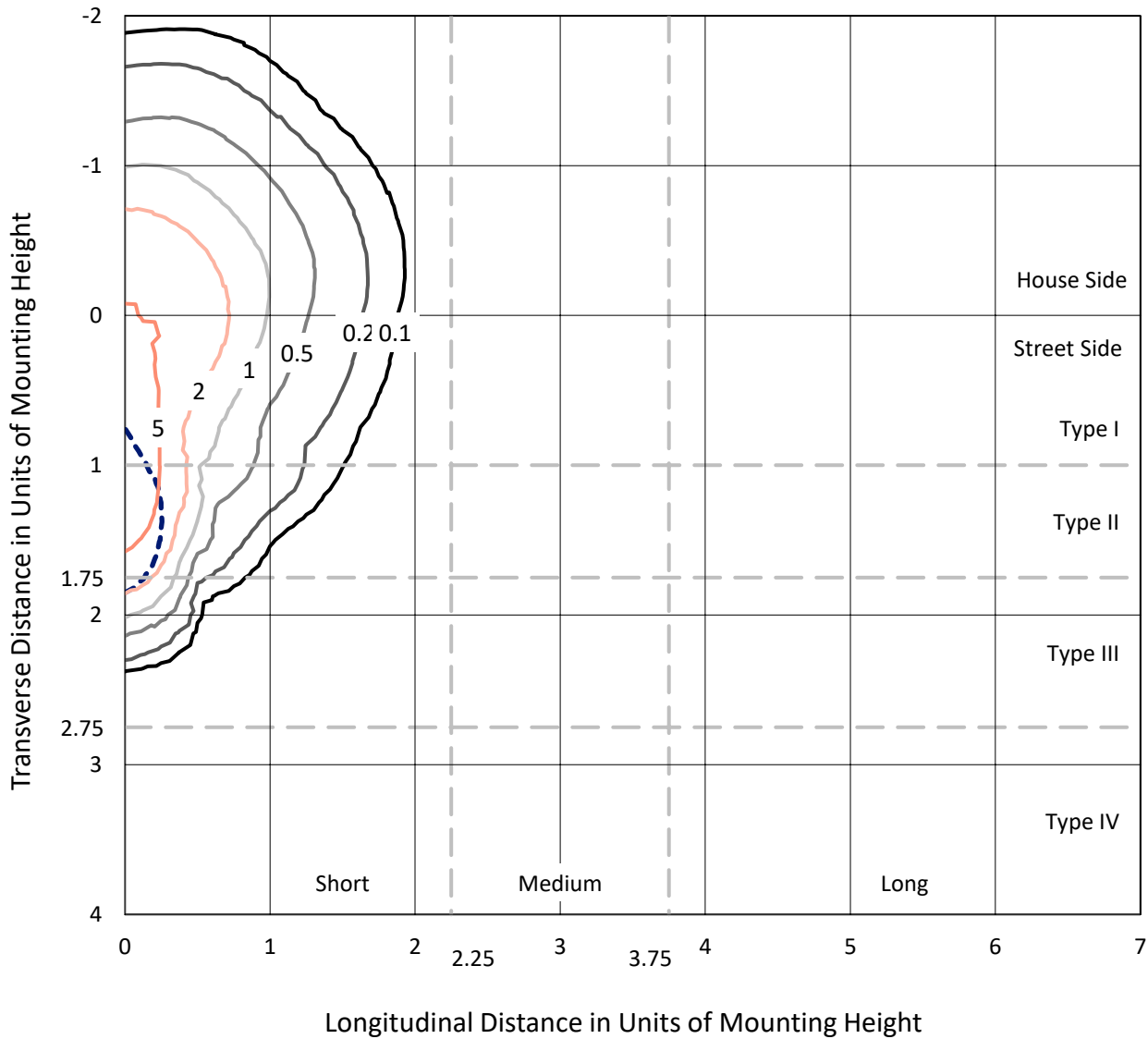
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

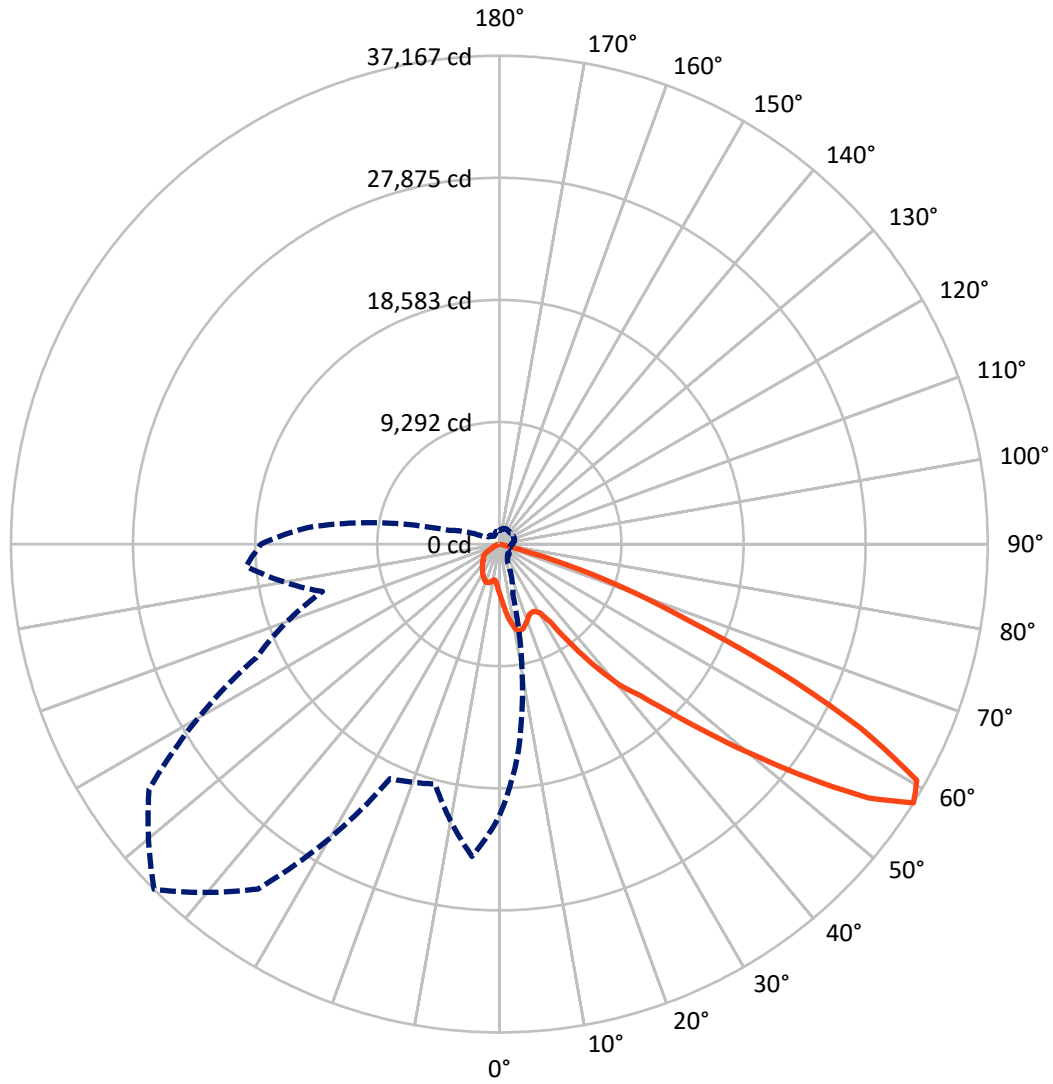
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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
House Side	Lumens	4821.6	0.0	4821.6
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	17559.3	0.0	17559.3
	% Fixture	78.5	0.0	78.5
Total	Lumens	22380.9	0.0	22380.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.9	1.7
10°-20°	1236.8	5.5
20°-30°	2007.2	9.0
30°-40°	3080.5	13.8
40°-50°	4919.8	22.0
50°-60°	6888.7	30.8
60°-70°	3532.0	15.8
70°-80°	340.1	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°	22380.9	100.0
0°-180°	22380.9	100.0

Coefficient of Utilization



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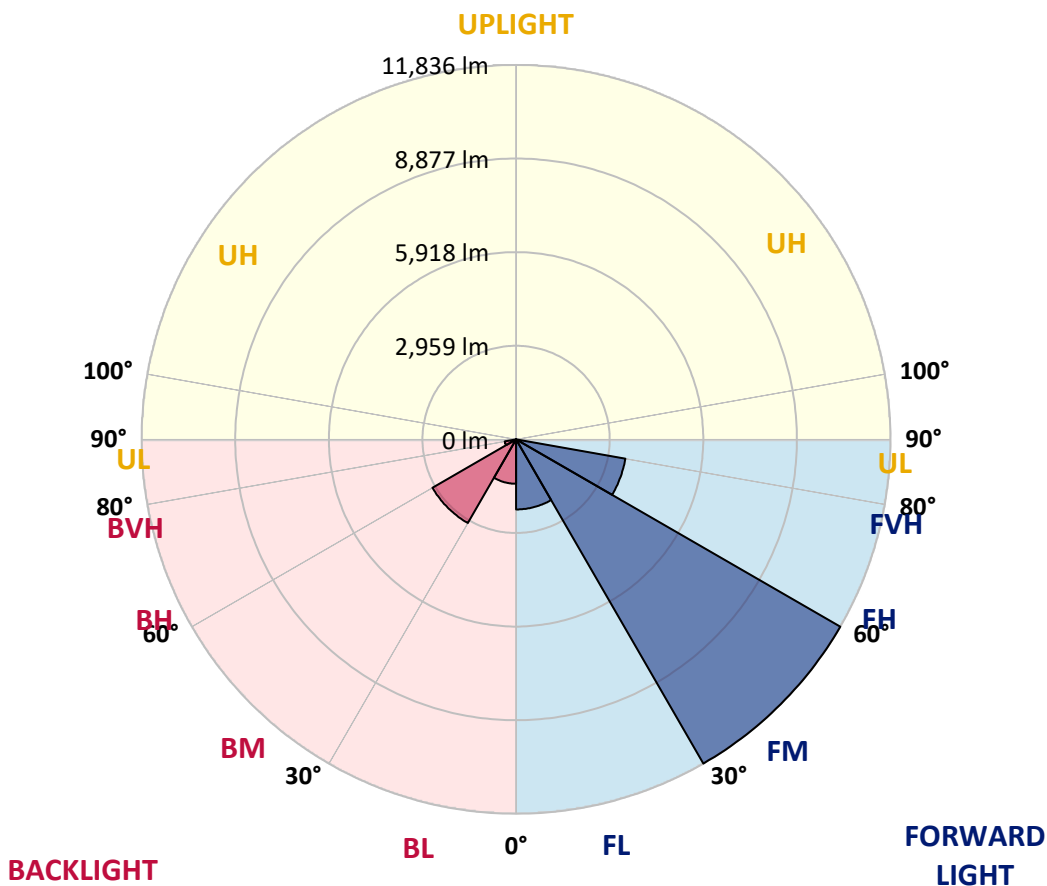
CATALOG NUMBER: GWS-SA5F-740-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2215.9	9.9			
FM (30°-60°)	11835.5	52.9			
FH (60°-80°)	3507.9	15.7			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1404.0	6.3	B3/2500		
BM (30°-60°)	3053.5	13.6	B3/5000		
BH (60°-80°)	364.1	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°	3802.8	3802.8	3802.8	3802.8	3802.8	3802.8	3802.8	3802.8	3802.8	3802.8	3802.8
2.5°	4224.7	4215.7	4185.8	4084.1	4021.3	3922.5	3850.7	3758.0	3656.2	3593.4	3530.6
5°	4673.5	4649.6	4568.8	4335.4	4155.9	3961.4	3805.8	3635.3	3452.8	3333.1	3222.4
7.5°	5104.4	5068.5	4960.8	4565.8	4293.5	4015.3	3793.9	3545.5	3288.2	3108.7	2971.1
10°	5526.2	5445.5	5274.9	4790.2	4422.2	4087.1	3826.8	3542.5	3240.3	3013.0	2860.4
12.5°	5873.3	5813.5	5580.1	5002.6	4529.9	4102.0	3781.9	3518.6	3315.1	3162.6	3021.9
15°	6172.5	6106.7	5885.3	5194.1	4622.7	4042.2	3593.4	3363.0	3395.9	3455.8	3336.1
17.5°	6447.8	6379.0	6139.6	5352.7	4658.6	3895.6	3330.1	3219.4	3401.9	3626.3	3581.4
20°	6732.0	6654.2	6361.0	5481.4	4646.6	3665.2	3063.8	3096.7	3354.0	3611.4	3635.3
22.5°	7064.1	6983.4	6642.3	5645.9	4637.6	3389.9	2833.4	2989.0	3264.3	3482.7	3524.6
25°	7504.0	7408.2	7034.2	5888.3	4661.6	3138.6	2668.9	2884.3	3111.7	3309.2	3333.1
27.5°	8084.4	7961.7	7486.0	6187.5	4712.4	2941.1	2597.1	2740.7	2917.2	3093.7	3114.7
30°	8841.4	8685.8	8003.6	6447.8	4688.5	2803.5	2549.2	2597.1	2701.8	2845.4	2848.4
32.5°	9727.0	9514.6	8584.1	6672.2	4482.0	2701.8	2483.4	2450.5	2474.4	2585.1	2606.0
35°	10768.2	10493.0	9224.4	6884.6	4105.0	2504.3	2363.7	2253.0	2244.0	2297.9	2348.7
37.5°	11962.1	11632.9	10032.2	7156.9	3659.2	2297.9	2187.2	2076.5	2028.6	2055.5	2133.3
40°	13063.1	12698.1	10876.0	7486.0	3204.4	2112.4	1980.7	1867.0	1810.2	1819.1	1914.9
42.5°	14355.7	13978.7	11908.2	7916.9	2827.5	1986.7	1765.3	1648.6	1573.8	1615.7	1726.4
45°	16318.4	15890.6	13413.2	8290.9	2528.2	1956.8	1576.8	1412.2	1376.3	1448.1	1579.8
47.5°	18999.3	18475.7	15480.7	8518.3	2273.9	1983.7	1445.1	1220.7	1229.7	1310.5	1442.1
50°	21659.2	21093.7	17871.3	8219.1	2064.5	1929.8	1379.3	1071.1	1128.0	1199.8	1319.5
52.5°	23487.3	22751.3	19035.2	7354.4	1873.0	1726.4	1373.3	930.5	1038.2	1062.2	1163.9
55°	23559.1	22652.5	18439.8	5798.5	1612.7	1457.1	1310.5	813.8	939.5	948.5	1035.2
57.5°	20650.9	19831.1	16115.0	3982.4	1433.2	1068.1	1044.2	712.1	771.9	846.7	900.6
60°	15711.1	15013.9	12051.8	1825.1	1089.1	679.2	715.1	613.4	577.5	688.2	742.0
62.5°	9622.3	9176.5	7228.7	807.8	694.1	362.0	433.8	487.7	433.8	475.7	520.6
65°	3820.8	3623.3	2743.7	344.1	284.2	182.5	197.5	284.2	305.2	335.1	377.0
67.5°	664.2	628.3	460.8	152.6	116.7	110.7	95.7	131.6	185.5	206.4	239.4
70°	86.8	83.8	74.8	62.8	59.8	53.9	41.9	83.8	125.7	131.6	152.6
72.5°	20.9	18.0	18.0	15.0	18.0	6.0	6.0	44.9	89.8	92.8	107.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.0	56.8	62.8	74.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
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°	3802.8	3802.8	3802.8	3802.8	3802.8	3802.8	3802.8	3802.8	3802.8	3802.8	3802.8
2.5°	3479.7	3419.9	3398.9	3369.0	3330.1	3342.1	3288.2	3270.3	3297.2	3333.1	3324.1
5°	3162.6	3096.7	3051.9	2983.0	2971.1	2944.1	2926.2	2902.3	2932.2	2974.1	2983.0
7.5°	2911.2	2854.4	2809.5	2788.6	2773.6	2761.6	2725.7	2707.8	2707.8	2725.7	2740.7
10°	2803.5	2761.6	2752.7	2758.6	2782.6	2779.6	2746.7	2722.7	2692.8	2677.9	2695.8
12.5°	2953.1	2884.3	2872.3	2875.3	2905.2	2902.3	2866.3	2836.4	2830.4	2836.4	2893.3
15°	3207.4	3102.7	3024.9	3010.0	3024.9	3018.9	2992.0	2974.1	2983.0	3069.8	3165.5
17.5°	3434.8	3273.3	3132.6	3078.8	3075.8	3066.8	3039.9	3033.9	3078.8	3240.3	3381.0
20°	3500.7	3342.1	3141.6	3072.8	3057.8	3048.9	3018.9	3027.9	3084.8	3279.2	3398.9
22.5°	3413.9	3261.3	3051.9	2983.0	2971.1	2968.1	2938.2	2950.1	2998.0	3168.5	3267.3
25°	3249.3	3120.7	2902.3	2842.4	2842.4	2836.4	2809.5	2815.5	2845.4	2995.0	3090.7
27.5°	3048.9	2926.2	2743.7	2683.8	2692.8	2701.8	2668.9	2659.9	2683.8	2824.5	2881.3
30°	2818.5	2731.7	2588.1	2534.2	2531.2	2567.1	2522.3	2510.3	2543.2	2653.9	2665.9
32.5°	2594.1	2552.2	2450.5	2408.6	2411.6	2417.5	2393.6	2393.6	2423.5	2483.4	2480.4
35°	2375.7	2348.7	2330.8	2300.9	2297.9	2285.9	2285.9	2291.9	2324.8	2345.7	2306.8
37.5°	2166.2	2193.1	2214.1	2184.2	2160.2	2160.2	2160.2	2187.2	2217.1	2208.1	2142.3
40°	1980.7	2037.6	2103.4	2070.5	2013.6	2010.6	2022.6	2067.5	2112.4	2058.5	1998.7
42.5°	1822.1	1893.9	1986.7	1968.7	1905.9	1896.9	1905.9	1962.8	1998.7	1929.8	1864.0
45°	1666.6	1756.3	1867.0	1867.0	1798.2	1789.2	1792.2	1867.0	1888.0	1807.2	1723.4
47.5°	1534.9	1633.6	1750.3	1750.3	1693.5	1675.5	1690.5	1768.3	1783.2	1669.5	1591.8
50°	1409.2	1516.9	1645.6	1636.6	1597.7	1582.8	1609.7	1693.5	1675.5	1549.9	1469.1
52.5°	1250.7	1364.4	1540.9	1549.9	1528.9	1531.9	1564.8	1618.7	1567.8	1415.2	1346.4
55°	1107.0	1223.7	1400.3	1448.1	1448.1	1445.1	1460.1	1502.0	1460.1	1277.6	1193.8
57.5°	951.5	1050.2	1196.8	1208.8	1217.7	1184.8	1205.8	1262.6	1241.7	1086.1	1038.2
60°	780.9	864.7	948.5	957.4	918.5	849.7	888.6	954.5	969.4	852.7	798.9
62.5°	553.5	634.3	733.0	733.0	694.1	625.3	676.2	733.0	712.1	592.4	559.5
65°	412.9	487.7	562.5	595.4	562.5	514.6	553.5	595.4	562.5	463.8	415.9
67.5°	266.3	317.2	362.0	389.0	394.9	389.0	406.9	394.9	356.0	290.2	263.3
70°	161.6	188.5	212.4	236.4	254.3	263.3	272.3	245.3	206.4	170.5	161.6
72.5°	116.7	140.6	161.6	179.5	200.5	206.4	206.4	188.5	152.6	119.7	110.7
75°	80.8	101.7	119.7	131.6	149.6	155.6	155.6	140.6	113.7	86.8	77.8
77.5°	3.0	20.9	20.9	18.0	23.9	29.9	29.9	35.9	32.9	23.9	20.9
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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CATALOG NUMBER: GWS-SA5F-740-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3802.8	3802.8	3802.8	3802.8	3802.8	3802.8	3802.8	3802.8	3802.8	3802.8	3802.8
2.5°	3342.1	3449.8	3479.7	3590.4	3689.2	3787.9	3907.6	3979.4	4087.1	4161.9	4203.8
5°	3013.0	3102.7	3210.4	3375.0	3545.5	3734.0	3961.4	4158.9	4407.2	4589.7	4649.6
7.5°	2773.6	2890.3	3015.9	3222.4	3455.8	3707.1	4027.2	4350.4	4730.4	4978.7	5137.3
10°	2728.7	2848.4	3015.9	3219.4	3464.7	3752.0	4143.9	4562.8	5038.5	5340.7	5520.3
12.5°	2944.1	3072.8	3144.6	3237.4	3422.9	3743.0	4245.7	4778.2	5337.7	5666.9	5858.4
15°	3261.3	3375.0	3258.3	3141.6	3261.3	3647.3	4302.5	4957.8	5601.0	5981.0	6178.5
17.5°	3479.7	3488.7	3234.4	2986.0	3018.9	3473.7	4323.5	5137.3	5882.3	6280.2	6486.7
20°	3458.8	3387.0	3129.6	2854.4	2752.7	3249.3	4299.5	5295.9	6166.5	6582.4	6785.9
22.5°	3297.2	3213.4	2995.0	2725.7	2528.2	2983.0	4257.6	5439.5	6426.8	6899.6	7091.1
25°	3102.7	3013.0	2833.4	2597.1	2384.6	2725.7	4224.7	5636.9	6756.0	7312.5	7462.1
27.5°	2875.3	2797.5	2644.9	2474.4	2324.8	2531.2	4215.7	5897.3	7153.9	7815.1	7919.9
30°	2653.9	2582.1	2462.4	2363.7	2300.9	2417.5	4185.8	6175.5	7629.6	8392.6	8506.3
32.5°	2441.5	2369.7	2294.9	2279.9	2282.9	2375.7	4084.1	6450.8	8195.1	9230.4	9314.1
35°	2259.0	2175.2	2145.3	2181.2	2247.0	2303.8	3796.9	6678.2	8802.5	10142.9	10211.7
37.5°	2085.4	2001.7	1998.7	2085.4	2157.2	2193.1	3458.8	6902.6	9622.3	11070.4	11157.2
40°	1926.9	1843.1	1873.0	1977.7	2034.6	2052.5	3048.9	7243.7	10490.0	12048.8	12001.0
42.5°	1792.2	1705.4	1723.4	1858.0	1908.9	1956.8	2671.9	7527.9	11324.8	12976.4	12961.4
45°	1660.6	1594.7	1582.8	1729.4	1774.3	1965.8	2396.6	7746.3	12398.9	14158.2	14182.1
47.5°	1531.9	1481.0	1484.0	1546.9	1657.6	2010.6	2163.2	7889.9	13957.7	16031.2	15615.3
50°	1415.2	1376.3	1409.2	1337.4	1582.8	1953.8	1962.8	7860.0	15699.1	17826.4	16991.6
52.5°	1286.6	1277.6	1292.5	1119.0	1463.1	1723.4	1774.3	7462.1	16515.9	19053.1	18577.4
55°	1154.9	1151.9	1032.2	894.6	1223.7	1376.3	1519.9	6226.4	16489.0	19705.4	20282.8
57.5°	999.3	975.4	783.9	730.1	951.5	957.4	1385.3	4078.1	14613.0	18143.6	19340.4
60°	757.0	739.0	574.5	592.4	664.2	613.4	1104.1	2031.6	10920.8	14134.3	15483.7
62.5°	523.6	499.7	427.9	457.8	427.9	350.1	676.2	1005.3	6615.3	8925.2	10148.9
65°	383.0	356.0	293.2	251.3	200.5	200.5	257.3	386.0	2561.2	3793.9	4574.8
67.5°	236.4	224.4	173.5	125.7	122.7	131.6	134.6	191.5	412.9	658.2	804.9
70°	152.6	140.6	116.7	80.8	74.8	77.8	80.8	89.8	104.7	113.7	137.6
72.5°	104.7	98.7	83.8	44.9	35.9	38.9	41.9	41.9	50.9	47.9	56.8
75°	74.8	68.8	59.8	20.9	12.0	15.0	18.0	15.0	18.0	12.0	15.0
77.5°	20.9	20.9	15.0	3.0	0.0	3.0	6.0	6.0	3.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0	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: P641229

CATALOG NUMBER: GWS-SA5F-740-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3802.8	3802.8	3802.8	3802.8	3802.8	3802.8	3802.8	3802.8	3802.8	3802.8
2.5°	4311.5	4380.3	4407.2	4368.3	4401.2	4347.4	4326.4	4245.7	4239.7	4224.7
5°	4891.9	5047.5	5140.3	5197.1	5131.3	5059.5	4951.8	4766.3	4709.4	4673.5
7.5°	5463.4	5705.8	5864.3	5939.1	5921.2	5774.6	5580.1	5268.9	5158.2	5104.4
10°	5960.1	6256.3	6447.8	6540.5	6501.6	6373.0	6094.7	5705.8	5559.2	5526.2
12.5°	6307.2	6579.4	6711.1	6791.9	6794.9	6744.0	6480.7	6088.7	5915.2	5873.3
15°	6525.6	6642.3	6645.3	6693.1	6776.9	6890.6	6767.9	6420.9	6235.4	6172.5
17.5°	6663.2	6534.6	6402.9	6414.9	6552.5	6854.7	6980.4	6714.1	6516.6	6447.8
20°	6761.9	6355.0	6109.7	6112.7	6253.3	6711.1	7127.0	6998.3	6794.9	6732.0
22.5°	6824.8	6196.5	5846.4	5837.4	5987.0	6540.5	7261.6	7336.4	7135.9	7064.1
25°	6953.4	6121.7	5687.8	5738.7	5870.3	6486.7	7444.1	7785.2	7599.7	7504.0
27.5°	7183.8	6196.5	5672.9	5789.5	5939.1	6645.3	7761.3	8383.6	8192.1	8084.4
30°	7581.8	6477.7	5903.2	6064.8	6244.3	7061.1	8293.9	9218.4	8943.1	8841.4
32.5°	8222.0	7061.1	6615.3	6962.4	7135.9	7743.3	9092.7	10154.9	9930.5	9727.0
35°	9104.7	8392.6	8341.7	9149.6	9107.7	9035.9	10074.1	11303.8	10965.7	10768.2
37.5°	10319.4	10534.9	10911.9	11713.7	11686.8	11139.3	11363.7	12389.9	12216.4	11962.1
40°	11836.4	12294.2	12934.5	14083.4	13724.4	13036.2	12946.4	13502.9	13362.3	13063.1
42.5°	12731.0	13520.9	14741.6	15773.9	15486.7	14283.9	14182.1	14990.0	14681.8	14355.7
45°	13146.9	14520.2	16913.8	18311.1	17440.4	15112.6	15073.8	16928.8	16755.3	16318.4
47.5°	13338.4	15528.5	19457.1	21572.4	19944.7	15839.7	15699.1	19741.3	19513.9	18999.3
50°	13550.8	16919.8	22520.9	25351.3	22969.7	16662.5	16764.2	22362.3	22266.5	21659.2
52.5°	14017.6	18391.9	26293.8	29671.8	26637.9	17952.1	18592.4	24833.7	24187.4	23487.3
55°	14717.7	19995.6	30219.3	34085.0	30380.9	19684.4	20570.1	26147.2	24334.0	23559.1
57.5°	13942.8	20396.5	32544.1	37166.8	32041.5	19690.4	18897.5	23870.3	21401.9	20650.9
60°	11064.5	18975.3	31649.5	36499.5	30626.2	17485.3	14469.4	18637.2	16213.7	15711.1
62.5°	7480.0	15914.5	27861.6	30868.6	26213.0	13754.3	9403.9	12120.6	10038.2	9622.3
65°	4099.1	11872.3	22511.9	23352.6	20516.2	9607.3	4838.1	5260.0	4006.3	3820.8
67.5°	1131.0	8263.9	16563.8	15492.6	14394.6	6256.3	1250.7	939.5	670.2	664.2
70°	284.2	5466.4	9924.5	10229.7	8826.4	4006.3	239.4	113.7	89.8	86.8
72.5°	119.7	2351.7	4709.4	5412.5	4517.9	1855.0	86.8	32.9	26.9	20.9
75°	15.0	188.5	400.9	607.4	415.9	200.5	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)