

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: P641339

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641339
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-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22580.1 lumens
Efficiency: N/A
Efficacy: 72.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

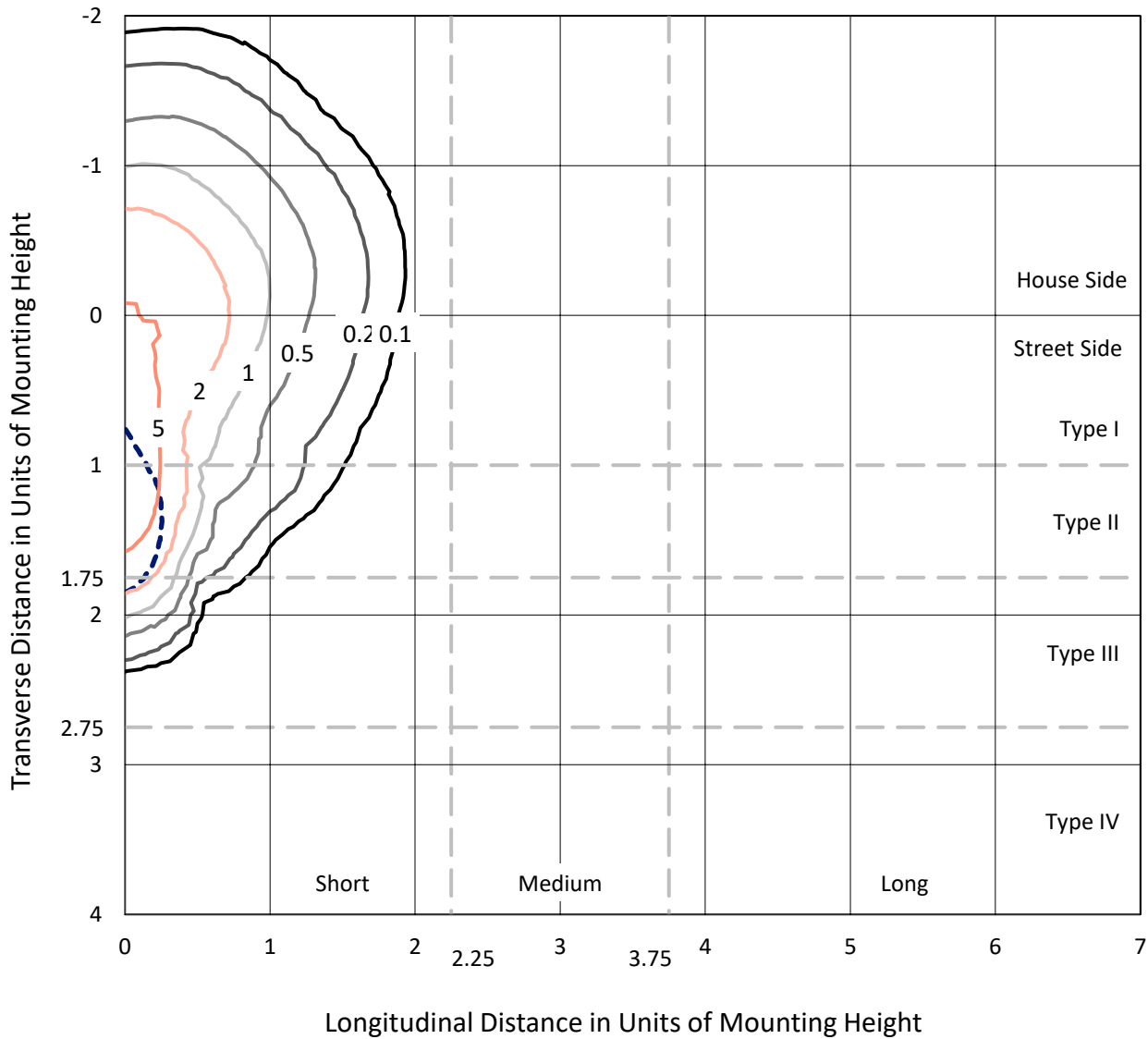
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

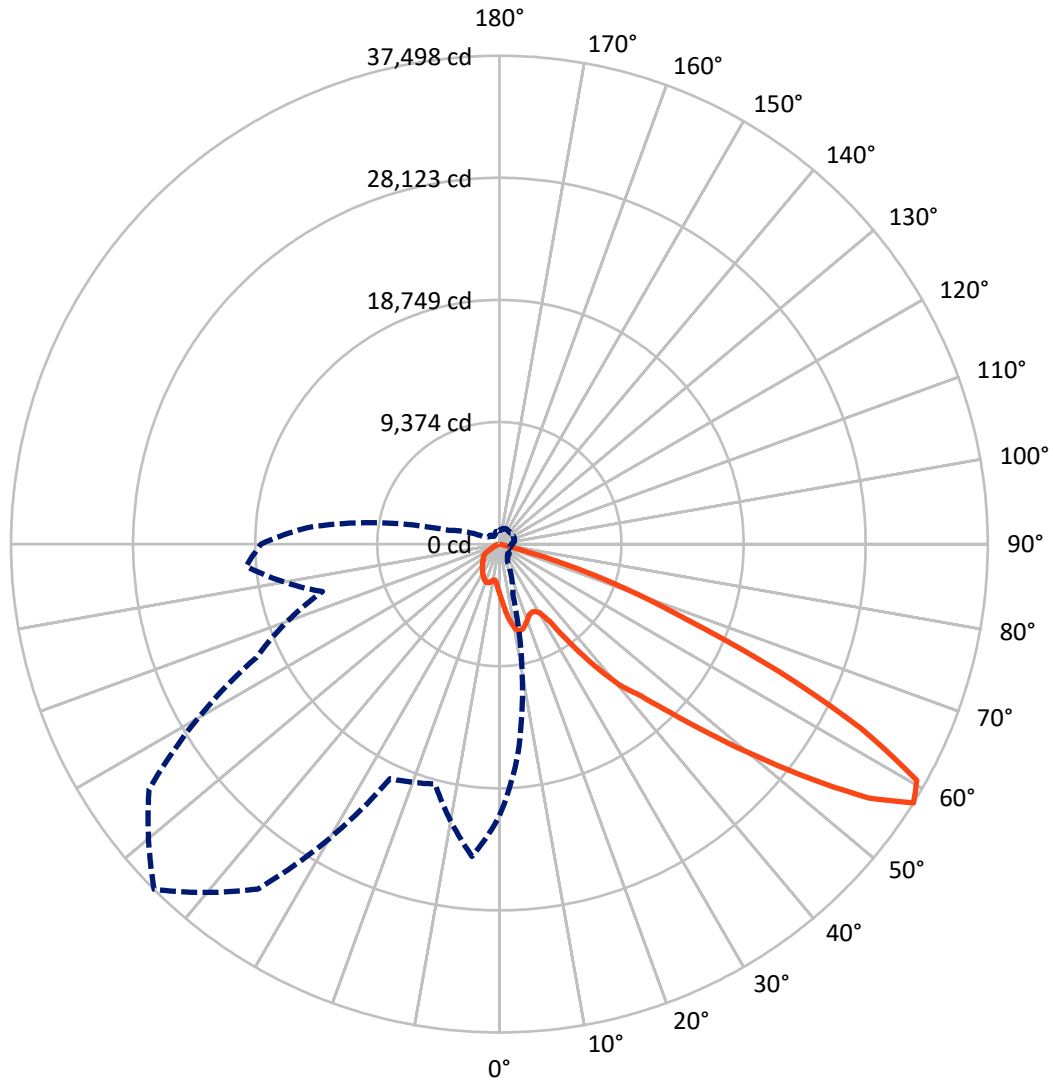
× Max cd
 - - - 1/2 Max cd



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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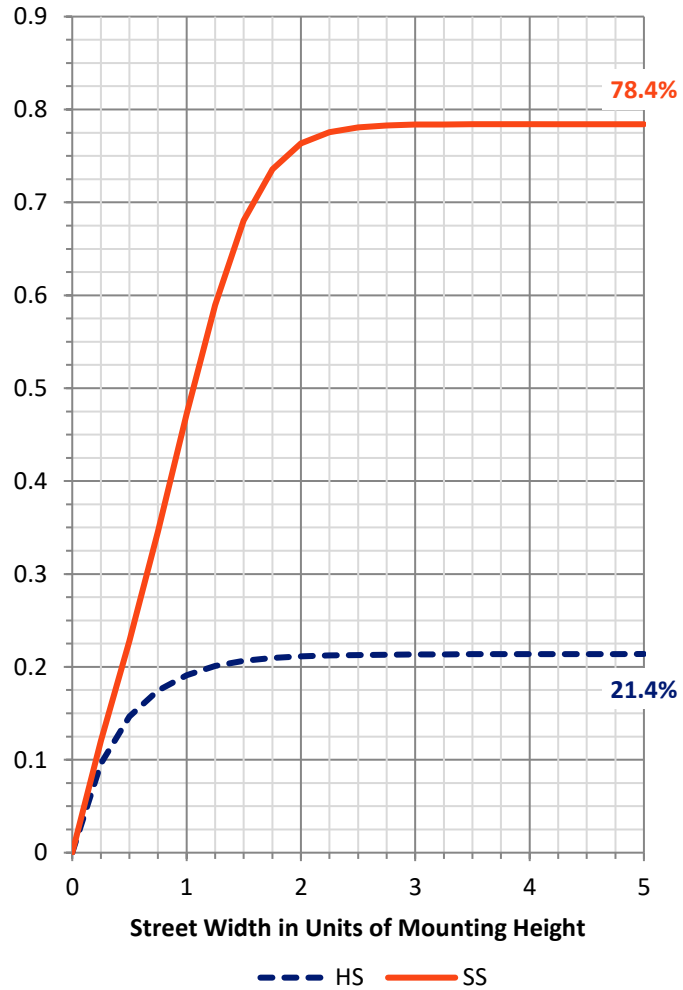
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4864.5	0.0	4864.5
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	17715.6	0.0	17715.6
	% Fixture	78.5	0.0	78.5
Total	Lumens	22580.1	0.0	22580.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.2	1.7
10°-20°	1247.8	5.5
20°-30°	2025.0	9.0
30°-40°	3108.0	13.8
40°-50°	4963.6	22.0
50°-60°	6950.0	30.8
60°-70°	3563.4	15.8
70°-80°	343.1	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°	22580.1	100.0
0°-180°	22580.1	100.0

Coefficient of Utilization



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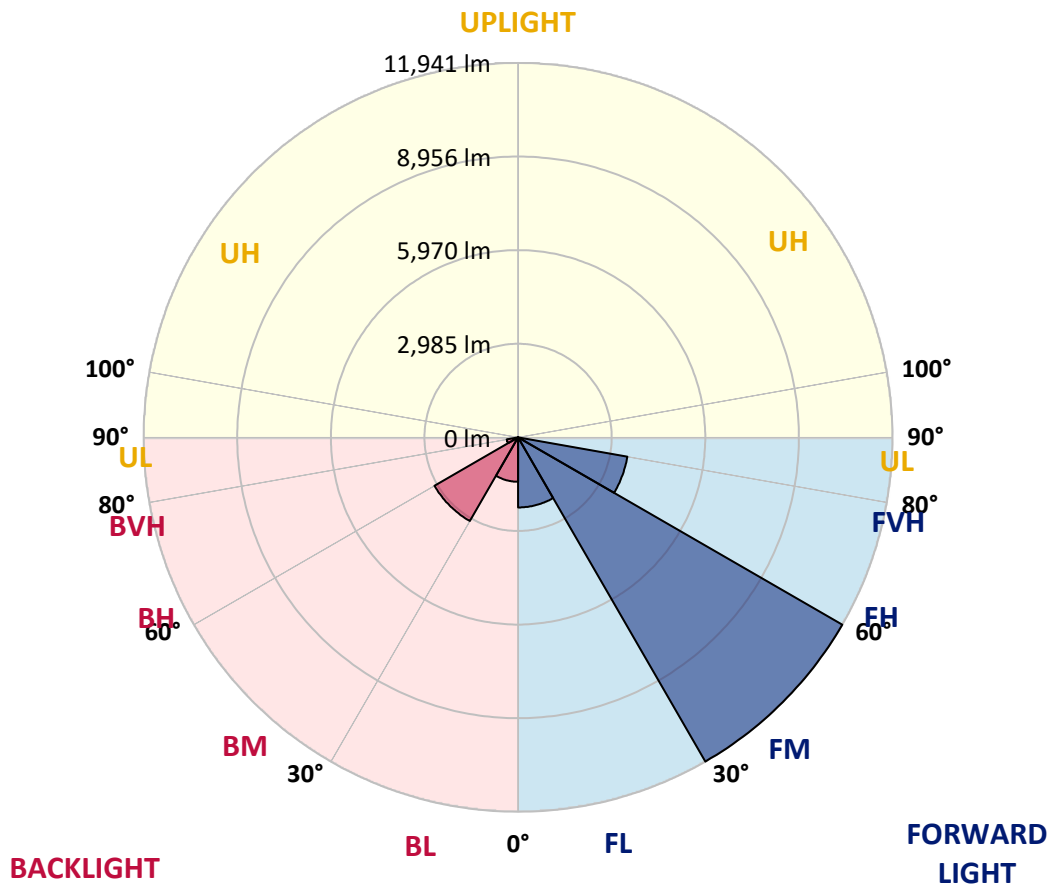
CATALOG NUMBER: GWS-SA5F-760-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2235.6	9.9			
FM (30°-60°)	11940.9	52.9			
FH (60°-80°)	3539.1	15.7			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1416.5	6.3	B3/2500		
BM (30°-60°)	3080.6	13.6	B3/5000		
BH (60°-80°)	367.4	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°	3836.7	3836.7	3836.7	3836.7	3836.7	3836.7	3836.7	3836.7	3836.7	3836.7	3836.7
2.5°	4262.3	4253.3	4223.1	4120.4	4057.1	3957.4	3885.0	3791.4	3688.8	3625.4	3562.0
5°	4715.1	4691.0	4609.5	4374.0	4192.9	3996.7	3839.7	3667.6	3483.5	3362.8	3251.1
7.5°	5149.8	5113.6	5004.9	4606.4	4331.8	4051.0	3827.6	3577.1	3317.5	3136.4	2997.5
10°	5575.4	5493.9	5321.9	4832.8	4461.6	4123.5	3860.8	3574.1	3269.2	3039.8	2885.8
12.5°	5925.6	5865.2	5629.8	5047.2	4570.2	4138.6	3815.6	3549.9	3344.7	3190.7	3048.8
15°	6227.5	6161.0	5937.7	5240.4	4663.8	4078.2	3625.4	3393.0	3426.2	3486.5	3365.8
17.5°	6505.2	6435.7	6194.3	5400.3	4700.0	3930.3	3359.7	3248.1	3432.2	3658.6	3613.3
20°	6791.9	6713.5	6417.6	5530.2	4688.0	3697.8	3091.1	3124.3	3383.9	3643.5	3667.6
22.5°	7127.0	7045.5	6701.4	5696.2	4678.9	3420.1	2858.7	3015.6	3293.3	3513.7	3556.0
25°	7570.8	7474.2	7096.8	5940.7	4703.0	3166.6	2692.6	2910.0	3139.4	3338.6	3362.8
27.5°	8156.4	8032.6	7552.6	6242.6	4754.4	2967.3	2620.2	2765.1	2943.2	3121.3	3142.4
30°	8920.1	8763.1	8074.9	6505.2	4730.2	2828.5	2571.9	2620.2	2725.8	2870.7	2873.7
32.5°	9813.6	9599.3	8660.5	6731.6	4521.9	2725.8	2505.5	2472.3	2496.4	2608.1	2629.2
35°	10864.1	10586.4	9306.5	6945.9	4141.6	2526.6	2384.7	2273.0	2264.0	2318.3	2369.6
37.5°	12068.5	11736.5	10121.5	7220.6	3691.8	2318.3	2206.6	2094.9	2046.6	2073.8	2152.3
40°	13179.4	12811.1	10972.8	7552.6	3233.0	2131.2	1998.3	1883.6	1826.3	1835.3	1931.9
42.5°	14483.4	14103.1	12014.2	7987.3	2852.6	2004.4	1781.0	1663.3	1587.8	1630.1	1741.8
45°	16463.7	16032.0	13532.6	8364.7	2550.8	1974.2	1590.8	1424.8	1388.6	1461.0	1593.8
47.5°	19168.4	18640.1	15618.5	8594.1	2294.2	2001.4	1458.0	1231.6	1240.7	1322.2	1455.0
50°	21851.9	21281.4	18030.3	8292.2	2082.9	1947.0	1391.6	1080.7	1138.0	1210.5	1331.2
52.5°	23696.3	22953.8	19204.6	7419.8	1889.7	1741.8	1385.6	938.8	1047.5	1071.6	1174.3
55°	23768.8	22854.1	18603.9	5850.1	1627.0	1470.1	1322.2	821.1	947.9	956.9	1044.5
57.5°	20834.7	20007.6	16258.4	4017.8	1445.9	1077.7	1053.5	718.4	778.8	854.3	908.6
60°	15850.9	15147.5	12159.1	1841.4	1098.8	685.2	721.5	618.8	582.6	694.3	748.6
62.5°	9708.0	9258.2	7293.0	815.0	700.3	365.3	437.7	492.0	437.7	480.0	525.2
65°	3854.8	3655.6	2768.1	347.1	286.8	184.1	199.2	286.8	307.9	338.1	380.3
67.5°	670.1	633.9	464.9	154.0	117.7	111.7	96.6	132.8	187.2	208.3	241.5
70°	87.5	84.5	75.5	63.4	60.4	54.3	42.3	84.5	126.8	132.8	154.0
72.5°	21.1	18.1	18.1	15.1	18.1	6.0	6.0	45.3	90.6	93.6	108.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.1	57.4	63.4	75.5
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°	3836.7	3836.7	3836.7	3836.7	3836.7	3836.7	3836.7	3836.7	3836.7	3836.7	3836.7
2.5°	3510.7	3450.3	3429.2	3399.0	3359.7	3371.8	3317.5	3299.4	3326.5	3362.8	3353.7
5°	3190.7	3124.3	3079.0	3009.6	2997.5	2970.3	2952.2	2928.1	2958.3	3000.5	3009.6
7.5°	2937.1	2879.8	2834.5	2813.4	2798.3	2786.2	2750.0	2731.9	2731.9	2750.0	2765.1
10°	2828.5	2786.2	2777.2	2783.2	2807.3	2804.3	2771.1	2747.0	2716.8	2701.7	2719.8
12.5°	2979.4	2910.0	2897.9	2900.9	2931.1	2928.1	2891.9	2861.7	2855.6	2861.7	2919.0
15°	3236.0	3130.3	3051.8	3036.8	3051.8	3045.8	3018.6	3000.5	3009.6	3097.1	3193.7
17.5°	3465.4	3302.4	3160.5	3106.2	3103.2	3094.1	3066.9	3060.9	3106.2	3269.2	3411.1
20°	3531.8	3371.8	3169.6	3100.1	3085.1	3076.0	3045.8	3054.9	3112.2	3308.4	3429.2
22.5°	3444.3	3290.3	3079.0	3009.6	2997.5	2994.5	2964.3	2976.4	3024.7	3196.7	3296.4
25°	3278.2	3148.4	2928.1	2867.7	2867.7	2861.7	2834.5	2840.5	2870.7	3021.7	3118.3
27.5°	3076.0	2952.2	2768.1	2707.7	2716.8	2725.8	2692.6	2683.6	2707.7	2849.6	2907.0
30°	2843.6	2756.0	2611.1	2556.8	2553.8	2590.0	2544.7	2532.6	2565.8	2677.5	2689.6
32.5°	2617.2	2574.9	2472.3	2430.0	2433.0	2439.1	2414.9	2414.9	2445.1	2505.5	2502.5
35°	2396.8	2369.6	2351.5	2321.3	2318.3	2306.2	2306.2	2312.3	2345.5	2366.6	2327.4
37.5°	2185.5	2212.7	2233.8	2203.6	2179.5	2179.5	2179.5	2206.6	2236.8	2227.8	2161.3
40°	1998.3	2055.7	2122.1	2088.9	2031.5	2028.5	2040.6	2085.9	2131.2	2076.8	2016.5
42.5°	1838.4	1910.8	2004.4	1986.3	1922.9	1913.8	1922.9	1980.2	2016.5	1947.0	1880.6
45°	1681.4	1771.9	1883.6	1883.6	1814.2	1805.1	1808.2	1883.6	1904.8	1823.3	1738.7
47.5°	1548.6	1648.2	1765.9	1765.9	1708.6	1690.4	1705.5	1784.0	1799.1	1684.4	1605.9
50°	1421.8	1530.5	1660.3	1651.2	1612.0	1596.9	1624.0	1708.6	1690.4	1563.7	1482.2
52.5°	1261.8	1376.5	1554.6	1563.7	1542.5	1545.5	1578.7	1633.1	1581.8	1427.8	1358.4
55°	1116.9	1234.6	1412.7	1461.0	1461.0	1458.0	1473.1	1515.4	1473.1	1289.0	1204.4
57.5°	959.9	1059.5	1207.5	1219.5	1228.6	1195.4	1216.5	1273.9	1252.7	1095.8	1047.5
60°	787.9	872.4	956.9	966.0	926.7	857.3	896.5	962.9	978.0	860.3	806.0
62.5°	558.4	640.0	739.6	739.6	700.3	630.9	682.2	739.6	718.4	597.7	564.5
65°	416.6	492.0	567.5	600.7	567.5	519.2	558.4	600.7	567.5	467.9	419.6
67.5°	268.7	320.0	365.3	392.4	398.5	392.4	410.5	398.5	359.2	292.8	265.6
70°	163.0	190.2	214.3	238.5	256.6	265.6	274.7	247.5	208.3	172.1	163.0
72.5°	117.7	141.9	163.0	181.1	202.2	208.3	208.3	190.2	154.0	120.7	111.7
75°	81.5	102.6	120.7	132.8	150.9	157.0	157.0	141.9	114.7	87.5	78.5
77.5°	3.0	21.1	21.1	18.1	24.1	30.2	30.2	36.2	33.2	24.1	21.1
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°	3836.7	3836.7	3836.7	3836.7	3836.7	3836.7	3836.7	3836.7	3836.7	3836.7	3836.7
2.5°	3371.8	3480.5	3510.7	3622.4	3722.0	3821.6	3942.3	4014.8	4123.5	4198.9	4241.2
5°	3039.8	3130.3	3239.0	3405.0	3577.1	3767.3	3996.7	4195.9	4446.5	4630.6	4691.0
7.5°	2798.3	2916.0	3042.8	3251.1	3486.5	3740.1	4063.1	4389.1	4772.5	5023.0	5183.0
10°	2753.0	2873.7	3042.8	3248.1	3495.6	3785.4	4180.8	4603.4	5083.4	5388.3	5569.4
12.5°	2970.3	3100.1	3172.6	3266.2	3453.3	3776.3	4283.5	4820.8	5385.3	5717.3	5910.5
15°	3290.3	3405.0	3287.3	3169.6	3290.3	3679.7	4340.8	5001.9	5650.9	6034.3	6233.5
17.5°	3510.7	3519.7	3263.2	3012.6	3045.8	3504.6	4361.9	5183.0	5934.6	6336.1	6544.4
20°	3489.5	3417.1	3157.5	2879.8	2777.2	3278.2	4337.8	5343.0	6221.4	6641.0	6846.3
22.5°	3326.5	3242.0	3021.7	2750.0	2550.8	3009.6	4295.5	5487.9	6484.0	6961.0	7154.2
25°	3130.3	3039.8	2858.7	2620.2	2405.9	2750.0	4262.3	5687.1	6816.1	7377.6	7528.5
27.5°	2900.9	2822.4	2668.5	2496.4	2345.5	2553.8	4253.3	5949.7	7217.6	7884.7	7990.3
30°	2677.5	2605.1	2484.3	2384.7	2321.3	2439.1	4223.1	6230.5	7697.5	8467.3	8582.0
32.5°	2463.2	2390.8	2315.3	2300.2	2303.2	2396.8	4120.4	6508.2	8268.1	9312.5	9397.0
35°	2279.1	2194.6	2164.4	2200.6	2267.0	2324.4	3830.7	6737.6	8880.8	10233.2	10302.6
37.5°	2104.0	2019.5	2016.5	2104.0	2176.4	2212.7	3489.5	6964.0	9708.0	11169.0	11256.5
40°	1944.0	1859.5	1889.7	1995.3	2052.7	2070.8	3076.0	7308.1	10583.4	12156.1	12107.8
42.5°	1808.2	1720.6	1738.7	1874.6	1925.9	1974.2	2695.6	7594.9	11425.6	13091.8	13076.8
45°	1675.3	1608.9	1596.9	1744.8	1790.1	1983.2	2417.9	7815.3	12509.3	14284.2	14308.4
47.5°	1545.5	1494.2	1497.2	1560.6	1672.3	2028.5	2182.5	7960.2	14082.0	16173.9	15754.3
50°	1427.8	1388.6	1421.8	1349.3	1596.9	1971.2	1980.2	7930.0	15838.8	17985.1	17142.9
52.5°	1298.0	1289.0	1304.1	1129.0	1476.1	1738.7	1790.1	7528.5	16662.9	19222.7	18742.7
55°	1165.2	1162.2	1041.4	902.6	1234.6	1388.6	1533.5	6281.8	16635.7	19880.8	20463.4
57.5°	1008.2	984.1	790.9	736.5	959.9	966.0	1397.6	4114.4	14743.0	18305.0	19512.5
60°	763.7	745.6	579.6	597.7	670.1	618.8	1113.9	2049.7	11018.0	14260.1	15621.5
62.5°	528.3	504.1	431.7	461.9	431.7	353.2	682.2	1014.3	6674.2	9004.6	10239.2
65°	386.4	359.2	295.8	253.6	202.2	202.2	259.6	389.4	2584.0	3827.6	4615.5
67.5°	238.5	226.4	175.1	126.8	123.8	132.8	135.8	193.2	416.6	664.1	812.0
70°	154.0	141.9	117.7	81.5	75.5	78.5	81.5	90.6	105.7	114.7	138.9
72.5°	105.7	99.6	84.5	45.3	36.2	39.2	42.3	42.3	51.3	48.3	57.4
75°	75.5	69.4	60.4	21.1	12.1	15.1	18.1	15.1	18.1	12.1	15.1
77.5°	21.1	21.1	15.1	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: P641339

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

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3836.7	3836.7	3836.7	3836.7	3836.7	3836.7	3836.7	3836.7	3836.7	3836.7
2.5°	4349.9	4419.3	4446.5	4407.2	4440.4	4386.1	4365.0	4283.5	4277.4	4262.3
5°	4935.5	5092.4	5186.0	5243.4	5177.0	5104.5	4995.9	4808.7	4751.3	4715.1
7.5°	5512.0	5756.5	5916.5	5992.0	5973.9	5826.0	5629.8	5315.8	5204.1	5149.8
10°	6013.1	6312.0	6505.2	6598.8	6559.5	6429.7	6149.0	5756.5	5608.6	5575.4
12.5°	6363.3	6638.0	6770.8	6852.3	6855.3	6804.0	6538.4	6142.9	5967.9	5925.6
15°	6583.7	6701.4	6704.4	6752.7	6837.2	6951.9	6828.2	6478.0	6290.8	6227.5
17.5°	6722.5	6592.7	6459.9	6472.0	6610.8	6915.7	7042.5	6773.8	6574.6	6505.2
20°	6822.1	6411.6	6164.1	6167.1	6309.0	6770.8	7190.4	7060.6	6855.3	6791.9
22.5°	6885.5	6251.6	5898.4	5889.4	6040.3	6598.8	7326.2	7401.7	7199.5	7127.0
25°	7015.3	6176.1	5738.4	5789.8	5922.6	6544.4	7510.4	7854.5	7667.3	7570.8
27.5°	7247.8	6251.6	5723.3	5841.1	5992.0	6704.4	7830.4	8458.2	8265.0	8156.4
30°	7649.2	6535.4	5955.8	6118.8	6299.9	7124.0	8367.7	9300.4	9022.7	8920.1
32.5°	8295.2	7124.0	6674.2	7024.4	7199.5	7812.2	9173.7	10245.3	10018.9	9813.6
35°	9185.7	8467.3	8416.0	9231.0	9188.7	9116.3	10163.8	11404.4	11063.3	10864.1
37.5°	10411.3	10628.6	11009.0	11818.0	11790.8	11238.4	11464.8	12500.2	12325.1	12068.5
40°	11941.7	12403.6	13049.6	14208.7	13846.5	13152.2	13061.7	13623.1	13481.3	13179.4
42.5°	12844.3	13641.2	14872.8	15914.3	15624.5	14411.0	14308.4	15123.4	14812.5	14483.4
45°	13263.9	14649.5	17064.4	18474.1	17595.7	15247.2	15207.9	17079.5	16904.4	16463.7
47.5°	13457.1	15666.8	19630.2	21764.4	20122.3	15980.7	15838.8	19917.0	19687.6	19168.4
50°	13671.4	17070.4	22721.3	25577.0	23174.1	16810.8	16913.4	22561.3	22464.7	21851.9
52.5°	14142.3	18555.6	26527.8	29935.9	26875.0	18111.8	18757.8	25054.7	24402.7	23696.3
55°	14848.7	20173.6	30488.3	34388.4	30651.3	19859.6	20753.2	26379.9	24550.6	23768.8
57.5°	14066.9	20578.1	32833.8	37497.6	32326.6	19865.7	19065.7	24082.7	21592.3	20834.7
60°	11162.9	19144.2	31931.2	36824.4	30898.8	17640.9	14598.2	18803.1	16358.0	15850.9
62.5°	7546.6	16056.2	28109.6	31143.3	26446.3	13876.7	9487.6	12228.5	10127.5	9708.0
65°	4135.5	11978.0	22712.3	23560.5	20698.8	9692.9	4881.1	5306.8	4042.0	3854.8
67.5°	1141.0	8337.5	16711.2	15630.5	14522.7	6312.0	1261.8	947.9	676.2	670.1
70°	286.8	5515.1	10012.8	10320.7	8905.0	4042.0	241.5	114.7	90.6	87.5
72.5°	120.7	2372.7	4751.3	5460.7	4558.1	1871.6	87.5	33.2	27.2	21.1
75°	15.1	190.2	404.5	612.8	419.6	202.2	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)