

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: P638809

Luminaire Tested: GWS-SA4F-750-U-SLL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638809  
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-SA4F-750-U-SLL-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

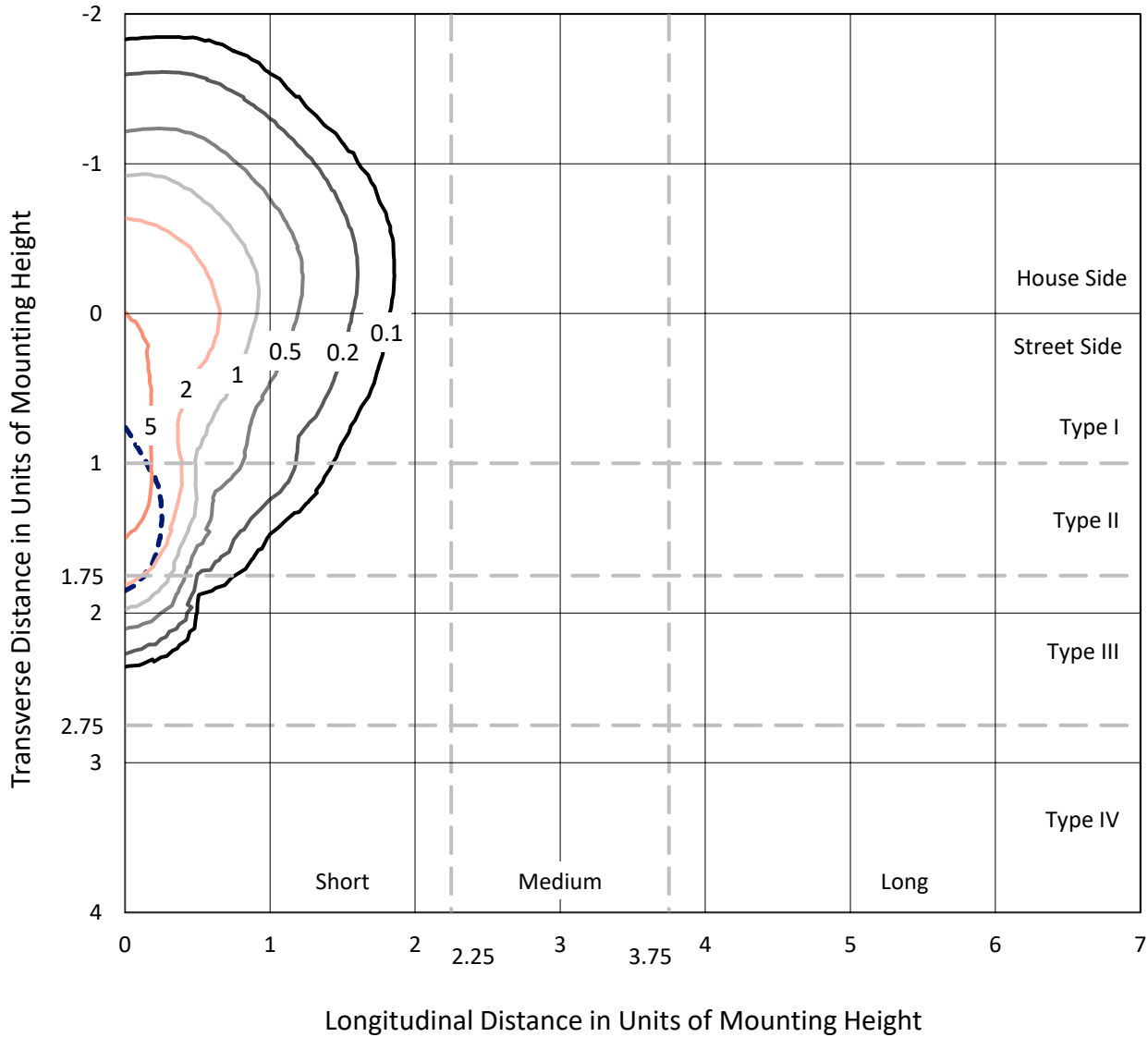
Lumens per Lamp: N/A  
Luminaire Lumens: 18662.7 lumens  
Efficiency: N/A  
Efficacy: 82.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 225.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

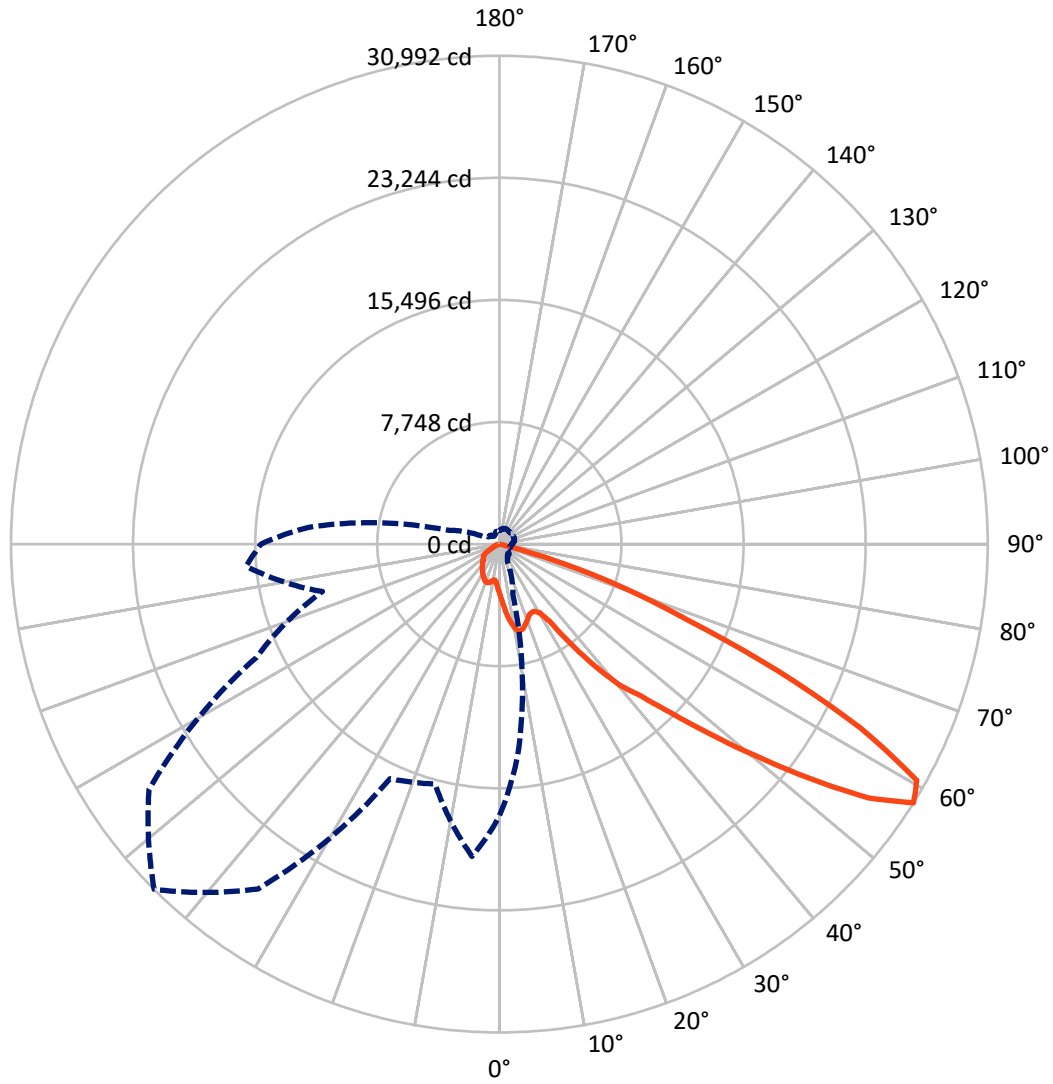
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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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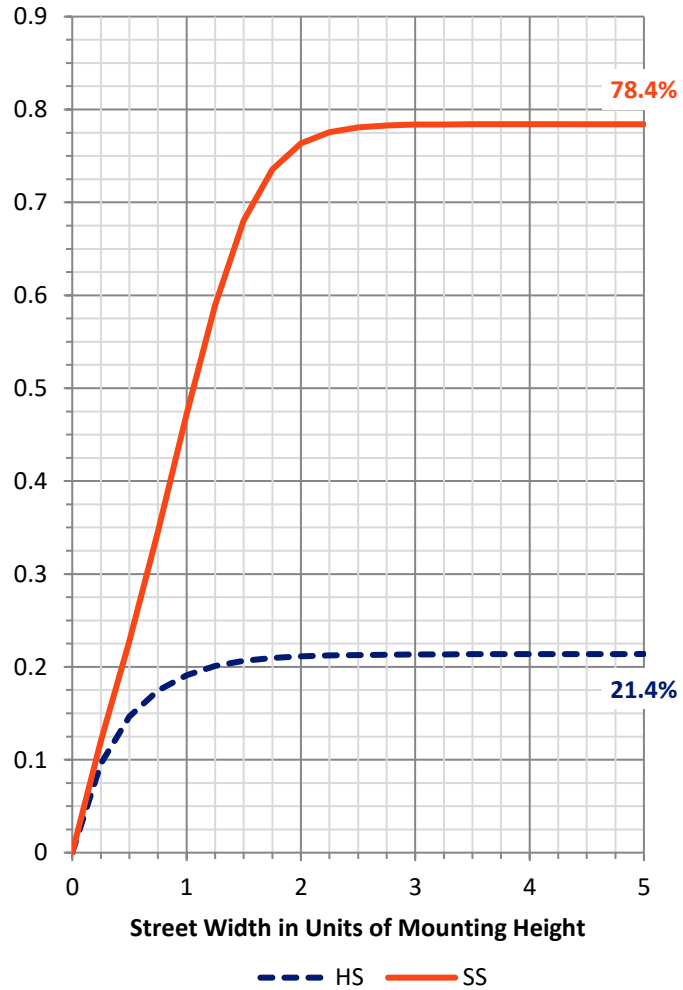
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4020.6	0.0	4020.6
	% Fixture	21.5	0.0	21.5
<b>Street Side</b>	Lumens	14642.1	0.0	14642.1
	% Fixture	78.5	0.0	78.5
<b>Total</b>	Lumens	18662.7	0.0	18662.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	313.4	1.7
10°-20°	1031.3	5.5
20°-30°	1673.7	9.0
30°-40°	2568.8	13.8
40°-50°	4102.5	22.0
50°-60°	5744.2	30.8
60°-70°	2945.2	15.8
70°-80°	283.6	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°	18662.7	100.0
0°-180°	18662.7	100.0

**Coefficient of Utilization**



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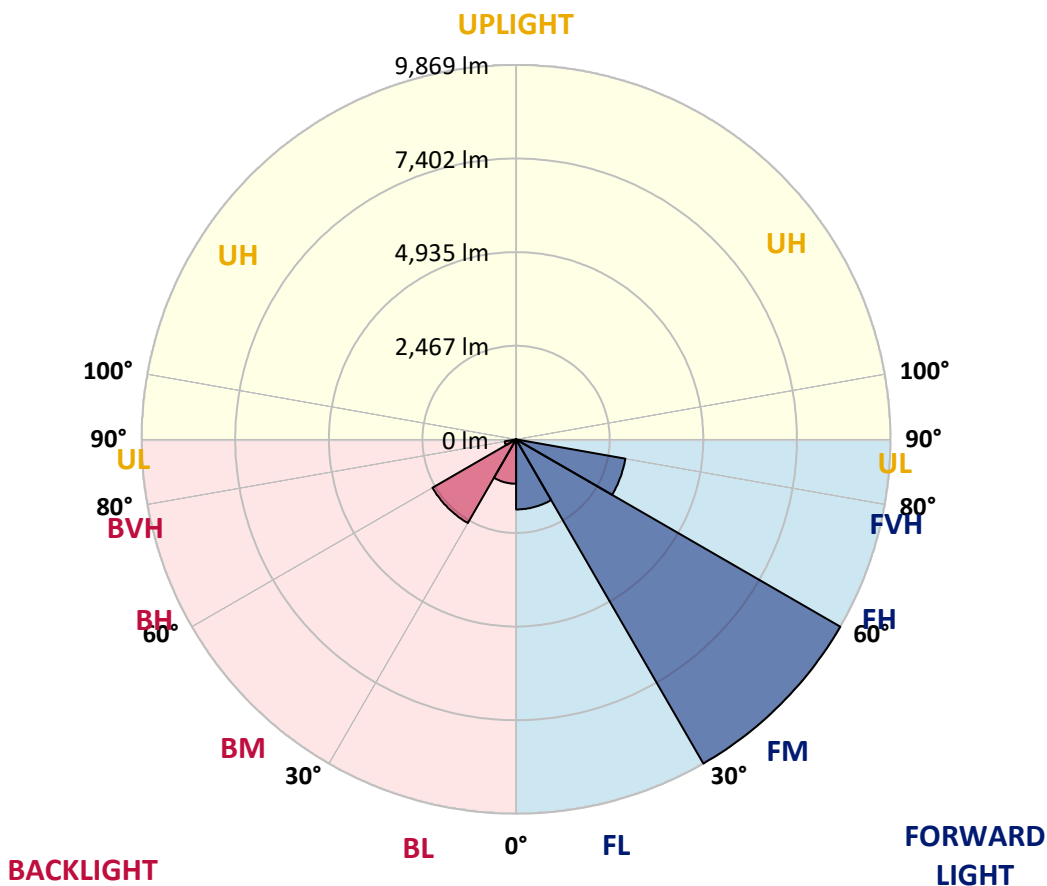
CATALOG NUMBER: GWS-SA4F-750-U-SLL-W-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1847.7	9.9			
FM (30°-60°)	9869.3	52.9			
FH (60°-80°)	2925.1	15.7			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1170.7	6.3	B3/2500		
BM (30°-60°)	2546.2	13.6	B3/5000		
BH (60°-80°)	303.7	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°	3171.1	3171.1	3171.1	3171.1	3171.1	3171.1	3171.1	3171.1	3171.1	3171.1	3171.1
2.5°	3522.9	3515.4	3490.4	3405.6	3353.2	3270.9	3211.0	3133.6	3048.8	2996.4	2944.0
5°	3897.1	3877.1	3809.8	3615.2	3465.5	3303.3	3173.6	3031.4	2879.2	2779.4	2687.1
7.5°	4256.4	4226.4	4136.6	3807.3	3580.2	3348.2	3163.6	2956.5	2741.9	2592.2	2477.5
10°	4608.2	4540.8	4398.6	3994.4	3687.5	3408.1	3191.0	2954.0	2702.0	2512.4	2385.2
12.5°	4897.6	4847.7	4653.1	4171.5	3777.3	3420.6	3153.6	2934.0	2764.4	2637.2	2519.9
15°	5147.1	5092.2	4907.5	4331.2	3854.7	3370.7	2996.4	2804.3	2831.8	2881.7	2781.9
17.5°	5376.6	5319.2	5119.6	4463.4	3884.6	3248.4	2776.9	2684.6	2836.7	3023.9	2986.4
20°	5613.6	5548.7	5304.2	4570.7	3874.6	3056.3	2554.8	2582.3	2796.8	3011.4	3031.4
22.5°	5890.6	5823.2	5538.8	4708.0	3867.2	2826.8	2362.7	2492.4	2722.0	2904.1	2939.0
25°	6257.3	6177.5	5865.6	4910.0	3887.1	2617.2	2225.5	2405.1	2594.7	2759.4	2779.4
27.5°	6741.3	6639.0	6242.3	5159.5	3929.5	2452.5	2165.6	2285.4	2432.6	2579.8	2597.2
30°	7372.5	7242.8	6674.0	5376.6	3909.6	2337.8	2125.7	2165.6	2252.9	2372.7	2375.2
32.5°	8111.1	7933.9	7158.0	5563.7	3737.4	2252.9	2070.8	2043.4	2063.3	2155.6	2173.1
35°	8979.3	8749.8	7691.9	5740.9	3423.1	2088.3	1971.0	1878.7	1871.2	1916.1	1958.5
37.5°	9974.8	9700.3	8365.5	5967.9	3051.3	1916.1	1823.8	1731.5	1691.6	1714.0	1778.9
40°	10892.9	10588.5	9069.1	6242.3	2672.1	1761.4	1651.7	1556.8	1509.4	1516.9	1596.8
42.5°	11970.7	11656.4	9929.9	6601.6	2357.7	1656.6	1472.0	1374.7	1312.3	1347.3	1439.6
45°	13607.4	13250.6	11184.8	6913.5	2108.2	1631.7	1314.8	1177.6	1147.7	1207.6	1317.3
47.5°	15842.9	15406.3	12908.8	7103.1	1896.2	1654.1	1205.1	1017.9	1025.4	1092.8	1202.6
50°	18060.9	17589.3	14902.3	6853.6	1721.5	1609.2	1150.2	893.2	940.6	1000.5	1100.3
52.5°	19585.3	18971.5	15872.8	6132.6	1561.8	1439.6	1145.2	775.9	865.7	885.7	970.5
55°	19645.2	18889.2	15376.3	4835.2	1344.8	1215.0	1092.8	678.6	783.4	790.9	863.2
57.5°	17220.1	16536.5	13437.7	3320.8	1195.1	890.7	870.7	593.8	643.7	706.1	751.0
60°	13100.9	12519.6	10049.6	1521.9	908.2	566.4	596.3	511.5	481.5	573.8	618.7
62.5°	8023.7	7652.0	6027.8	673.6	578.8	301.9	361.8	406.7	361.8	396.7	434.1
65°	3186.0	3021.4	2287.9	286.9	237.0	152.2	164.7	237.0	254.5	279.4	314.4
67.5°	553.9	523.9	384.2	127.2	97.3	92.3	79.8	109.8	154.7	172.2	199.6
70°	72.4	69.9	62.4	52.4	49.9	44.9	34.9	69.9	104.8	109.8	127.2
72.5°	17.5	15.0	15.0	12.5	15.0	5.0	5.0	37.4	74.8	77.3	89.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5	47.4	52.4	62.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5
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°	3171.1	3171.1	3171.1	3171.1	3171.1	3171.1	3171.1	3171.1	3171.1	3171.1	3171.1
2.5°	2901.6	2851.7	2834.3	2809.3	2776.9	2786.8	2741.9	2727.0	2749.4	2779.4	2771.9
5°	2637.2	2582.3	2544.8	2487.5	2477.5	2455.0	2440.1	2420.1	2445.0	2480.0	2487.5
7.5°	2427.6	2380.2	2342.7	2325.3	2312.8	2302.8	2272.9	2257.9	2257.9	2272.9	2285.4
10°	2337.8	2302.8	2295.3	2300.3	2320.3	2317.8	2290.4	2270.4	2245.4	2233.0	2247.9
12.5°	2462.5	2405.1	2395.1	2397.6	2422.6	2420.1	2390.2	2365.2	2360.2	2365.2	2412.6
15°	2674.6	2587.3	2522.4	2509.9	2522.4	2517.4	2494.9	2480.0	2487.5	2559.8	2639.6
17.5°	2864.2	2729.5	2612.2	2567.3	2564.8	2557.3	2534.9	2529.9	2567.3	2702.0	2819.3
20°	2919.1	2786.8	2619.7	2562.3	2549.8	2542.3	2517.4	2524.9	2572.3	2734.5	2834.3
22.5°	2846.7	2719.5	2544.8	2487.5	2477.5	2475.0	2450.0	2460.0	2499.9	2642.1	2724.5
25°	2709.5	2602.2	2420.1	2370.2	2370.2	2365.2	2342.7	2347.7	2372.7	2497.4	2577.3
27.5°	2542.3	2440.1	2287.9	2238.0	2245.4	2252.9	2225.5	2218.0	2238.0	2355.2	2402.6
30°	2350.2	2277.9	2158.1	2113.2	2110.7	2140.7	2103.2	2093.3	2120.7	2213.0	2223.0
32.5°	2163.1	2128.2	2043.4	2008.4	2010.9	2015.9	1996.0	1996.0	2020.9	2070.8	2068.3
35°	1981.0	1958.5	1943.6	1918.6	1916.1	1906.1	1906.1	1911.1	1938.6	1956.0	1923.6
37.5°	1806.3	1828.8	1846.3	1821.3	1801.3	1801.3	1801.3	1823.8	1848.8	1841.3	1786.4
40°	1651.7	1699.1	1753.9	1726.5	1679.1	1676.6	1686.6	1724.0	1761.4	1716.5	1666.6
42.5°	1519.4	1579.3	1656.6	1641.7	1589.3	1581.8	1589.3	1636.7	1666.6	1609.2	1554.3
45°	1389.7	1464.5	1556.8	1556.8	1499.5	1492.0	1494.5	1556.8	1574.3	1506.9	1437.1
47.5°	1279.9	1362.2	1459.5	1459.5	1412.1	1397.2	1409.6	1474.5	1487.0	1392.2	1327.3
50°	1175.1	1264.9	1372.2	1364.7	1332.3	1319.8	1342.3	1412.1	1397.2	1292.4	1225.0
52.5°	1042.9	1137.7	1284.9	1292.4	1274.9	1277.4	1304.9	1349.8	1307.3	1180.1	1122.7
55°	923.1	1020.4	1167.6	1207.6	1207.6	1205.1	1217.5	1252.5	1217.5	1065.3	995.5
57.5°	793.4	875.7	998.0	1008.0	1015.4	988.0	1005.5	1052.9	1035.4	905.7	865.7
60°	651.2	721.0	790.9	798.4	765.9	708.6	741.0	795.9	808.4	711.1	666.1
62.5°	461.6	528.9	611.3	611.3	578.8	521.4	563.9	611.3	593.8	494.0	466.6
65°	344.3	406.7	469.0	496.5	469.0	429.1	461.6	496.5	469.0	386.7	346.8
67.5°	222.0	264.5	301.9	324.3	329.3	324.3	339.3	329.3	296.9	242.0	219.6
70°	134.7	157.2	177.1	197.1	212.1	219.6	227.0	204.6	172.2	142.2	134.7
72.5°	97.3	117.3	134.7	149.7	167.2	172.2	172.2	157.2	127.2	99.8	92.3
75°	67.4	84.8	99.8	109.8	124.7	129.7	129.7	117.3	94.8	72.4	64.9
77.5°	2.5	17.5	17.5	15.0	20.0	24.9	24.9	29.9	27.4	20.0	17.5
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3171.1	3171.1	3171.1	3171.1	3171.1	3171.1	3171.1	3171.1	3171.1	3171.1	3171.1
2.5°	2786.8	2876.7	2901.6	2993.9	3076.3	3158.6	3258.4	3318.3	3408.1	3470.5	3505.4
5°	2512.4	2587.3	2677.1	2814.3	2956.5	3113.7	3303.3	3468.0	3675.0	3827.2	3877.1
7.5°	2312.8	2410.1	2514.9	2687.1	2881.7	3091.2	3358.2	3627.6	3944.5	4151.6	4283.8
10°	2275.4	2375.2	2514.9	2684.6	2889.1	3128.7	3455.5	3804.8	4201.5	4453.5	4603.2
12.5°	2455.0	2562.3	2622.2	2699.5	2854.2	3121.2	3540.3	3984.4	4451.0	4725.4	4885.1
15°	2719.5	2814.3	2717.0	2619.7	2719.5	3041.3	3587.7	4134.1	4670.5	4987.4	5152.1
17.5°	2901.6	2909.1	2697.0	2490.0	2517.4	2896.6	3605.2	4283.8	4905.1	5236.9	5409.0
20°	2884.2	2824.3	2609.7	2380.2	2295.3	2709.5	3585.2	4416.0	5142.1	5488.9	5658.5
22.5°	2749.4	2679.6	2497.4	2272.9	2108.2	2487.5	3550.3	4535.8	5359.1	5753.3	5913.0
25°	2587.3	2512.4	2362.7	2165.6	1988.5	2272.9	3522.9	4700.5	5633.6	6097.6	6222.4
27.5°	2397.6	2332.8	2205.5	2063.3	1938.6	2110.7	3515.4	4917.5	5965.4	6516.8	6604.1
30°	2213.0	2153.1	2053.3	1971.0	1918.6	2015.9	3490.4	5149.6	6362.1	6998.3	7093.1
32.5°	2035.9	1976.0	1913.6	1901.1	1903.6	1981.0	3405.6	5379.1	6833.6	7696.9	7766.7
35°	1883.7	1813.8	1788.9	1818.8	1873.7	1921.1	3166.1	5568.7	7340.1	8457.8	8515.2
37.5°	1739.0	1669.1	1666.6	1739.0	1798.9	1828.8	2884.2	5755.8	8023.7	9231.3	9303.6
40°	1606.7	1536.9	1561.8	1649.2	1696.6	1711.5	2542.3	6040.3	8747.3	10047.1	10007.2
42.5°	1494.5	1422.1	1437.1	1549.4	1591.8	1631.7	2228.0	6277.3	9443.3	10820.6	10808.1
45°	1384.7	1329.8	1319.8	1442.1	1479.5	1639.2	1998.4	6459.4	10339.0	11806.1	11826.0
47.5°	1277.4	1235.0	1237.5	1289.9	1382.2	1676.6	1803.8	6579.2	11638.9	13367.9	13021.1
50°	1180.1	1147.7	1175.1	1115.2	1319.8	1629.2	1636.7	6554.2	13091.0	14864.9	14168.8
52.5°	1072.8	1065.3	1077.8	933.1	1220.0	1437.1	1479.5	6222.4	13772.1	15887.8	15491.1
55°	963.0	960.6	860.8	746.0	1020.4	1147.7	1267.4	5192.0	13749.6	16431.7	16913.2
57.5°	833.3	813.4	653.7	608.8	793.4	798.4	1155.2	3400.6	12185.3	15129.3	16127.3
60°	631.2	616.3	479.0	494.0	553.9	511.5	920.6	1694.1	9106.5	11786.1	12911.3
62.5°	436.6	416.7	356.8	381.7	356.8	291.9	563.9	838.3	5516.3	7442.4	8462.8
65°	319.4	296.9	244.5	209.6	167.2	167.2	214.6	321.8	2135.7	3163.6	3814.8
67.5°	197.1	187.1	144.7	104.8	102.3	109.8	112.3	159.7	344.3	548.9	671.1
70°	127.2	117.3	97.3	67.4	62.4	64.9	67.4	74.8	87.3	94.8	114.8
72.5°	87.3	82.3	69.9	37.4	29.9	32.4	34.9	34.9	42.4	39.9	47.4
75°	62.4	57.4	49.9	17.5	10.0	12.5	15.0	12.5	15.0	10.0	12.5
77.5°	17.5	17.5	12.5	2.5	0.0	2.5	5.0	5.0	2.5	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.5	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: P638809

CATALOG NUMBER: GWS-SA4F-750-U-SLL-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3171.1	3171.1	3171.1	3171.1	3171.1	3171.1	3171.1	3171.1	3171.1	3171.1
2.5°	3595.2	3652.6	3675.0	3642.6	3670.1	3625.1	3607.7	3540.3	3535.3	3522.9
5°	4079.2	4209.0	4286.3	4333.7	4278.8	4218.9	4129.1	3974.4	3927.0	3897.1
7.5°	4555.8	4757.9	4890.1	4952.5	4937.5	4815.2	4653.1	4393.6	4301.3	4256.4
10°	4969.9	5216.9	5376.6	5453.9	5421.5	5314.2	5082.2	4757.9	4635.6	4608.2
12.5°	5259.3	5486.4	5596.2	5663.5	5666.0	5623.6	5404.0	5077.2	4932.5	4897.6
15°	5441.5	5538.8	5541.3	5581.2	5651.0	5745.8	5643.6	5354.1	5199.5	5147.1
17.5°	5556.2	5448.9	5339.2	5349.2	5463.9	5715.9	5820.7	5598.6	5434.0	5376.6
20°	5638.6	5299.3	5094.7	5097.2	5214.4	5596.2	5942.9	5835.7	5666.0	5613.6
22.5°	5691.0	5167.0	4875.1	4867.6	4992.4	5453.9	6055.2	6117.6	5950.4	5890.6
25°	5798.2	5104.6	4742.9	4785.3	4895.1	5409.0	6207.4	6491.8	6337.1	6257.3
27.5°	5990.4	5167.0	4730.4	4827.7	4952.5	5541.3	6471.9	6990.8	6831.1	6741.3
30°	6322.2	5401.5	4922.5	5057.2	5206.9	5888.1	6916.0	7686.9	7457.4	7372.5
32.5°	6856.1	5888.1	5516.3	5805.7	5950.4	6456.9	7582.1	8467.8	8280.7	8111.1
35°	7592.1	6998.3	6955.9	7629.5	7594.6	7534.7	8400.5	9425.9	9144.0	8979.3
37.5°	8605.0	8784.7	9099.0	9767.7	9745.2	9288.7	9475.8	10331.5	10186.8	9974.8
40°	9870.0	10251.7	10785.6	11743.7	11444.3	10870.5	10795.6	11259.7	11142.4	10892.9
42.5°	10616.0	11274.6	12292.6	13153.3	12913.8	11910.8	11826.0	12499.7	12242.7	11970.7
45°	10962.8	12107.9	14103.9	15269.0	14543.0	12601.9	12569.5	14116.4	13971.7	13607.4
47.5°	11122.4	12948.7	16224.6	17988.5	16631.3	13208.2	13091.0	16461.6	16272.0	15842.9
50°	11299.6	14108.9	18779.4	21139.6	19153.7	13894.3	13979.2	18647.2	18567.3	18060.9
52.5°	11688.8	15336.4	21925.5	24742.3	22212.5	14969.6	15503.6	20708.0	20169.1	19585.3
55°	12272.6	16673.7	25198.9	28422.4	25333.6	16414.2	17152.7	21803.3	20291.4	19645.2
57.5°	11626.4	17008.0	27137.5	30992.1	26718.3	16419.2	15758.0	19904.6	17846.3	17220.1
60°	9226.3	15822.9	26391.5	30435.8	25538.2	14580.4	12065.5	15541.0	13520.1	13100.9
62.5°	6237.4	13270.6	23232.9	25740.3	21858.2	11469.2	7841.6	10107.0	8370.5	8023.7
65°	3418.1	9899.9	18771.9	19473.0	17107.8	8011.3	4034.3	4386.1	3340.7	3186.0
67.5°	943.1	6891.0	13812.0	12918.8	12003.2	5216.9	1042.9	783.4	558.9	553.9
70°	237.0	4558.3	8275.7	8530.2	7360.1	3340.7	199.6	94.8	74.8	72.4
72.5°	99.8	1961.0	3927.0	4513.3	3767.4	1546.9	72.4	27.4	22.5	17.5
75°	12.5	157.2	334.3	506.5	346.8	167.2	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)