

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: P636834

Luminaire Tested: GWS-SA4B-750-U-SLR-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636834  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-43)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4B-750-U-SLR-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

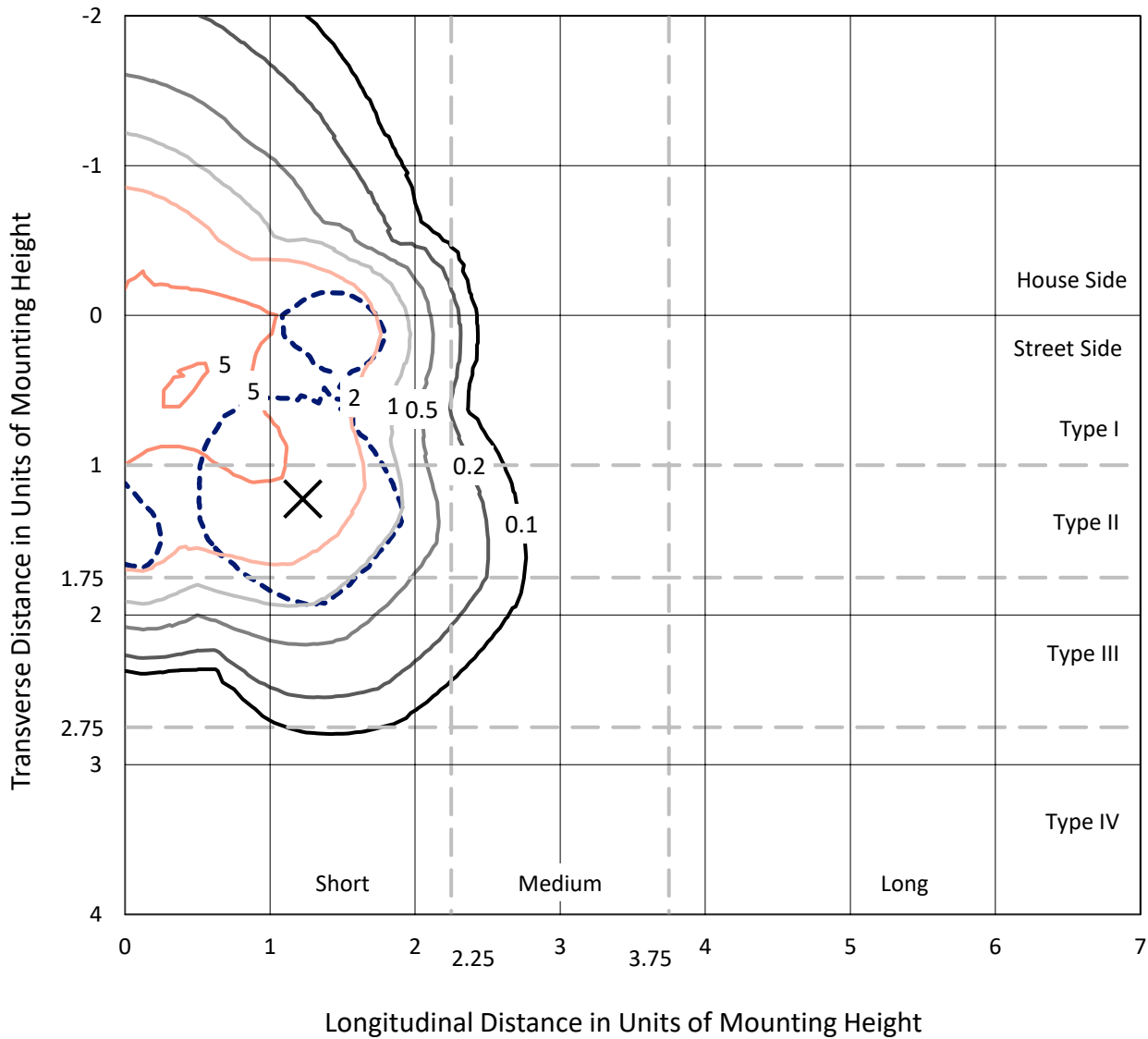
Lumens per Lamp: N/A  
Luminaire Lumens: 11584.1 lumens  
Efficiency: N/A  
Efficacy: 122.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

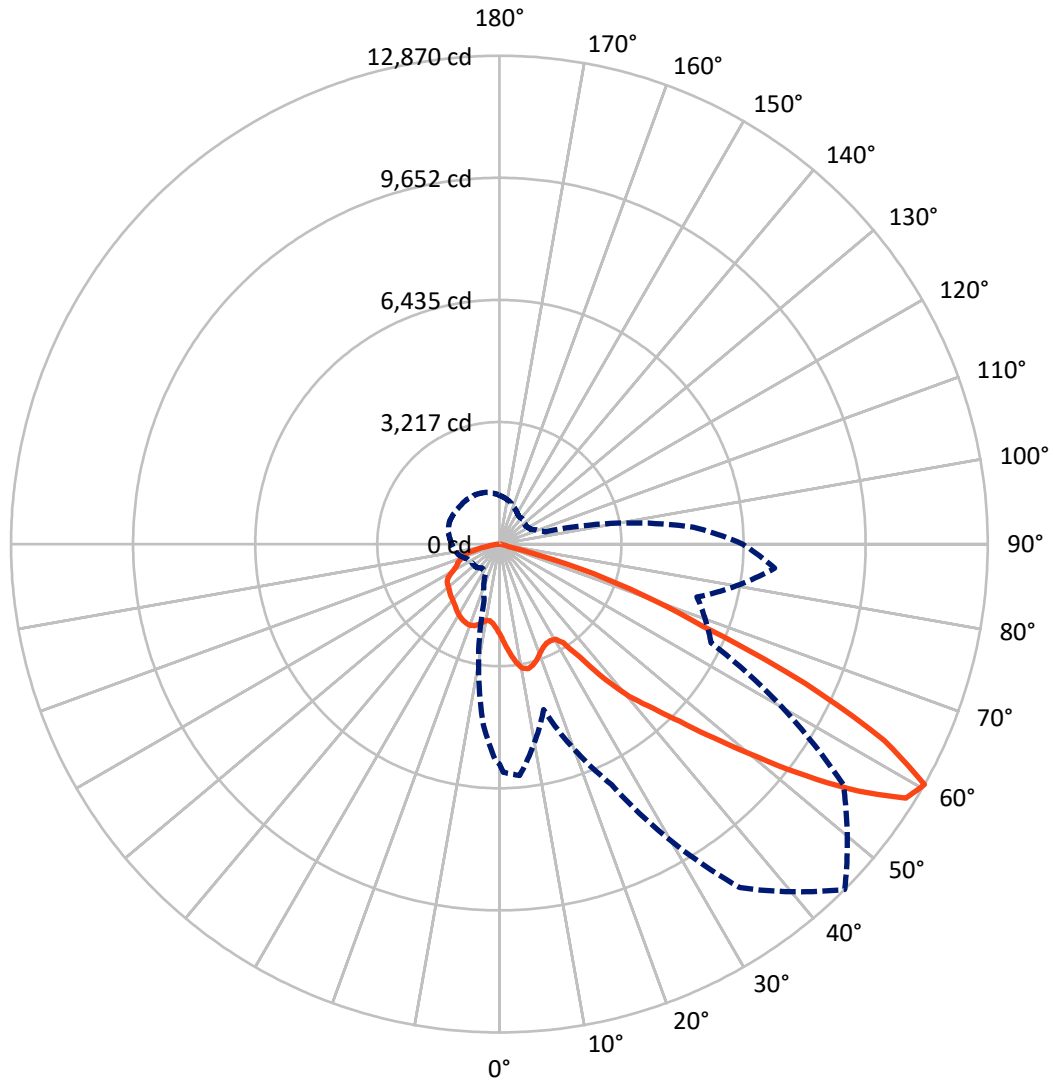
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4060.6	0.0	4060.6
	% Fixture	35.1	0.0	35.1
<b>Street Side</b>	Lumens	7523.5	0.0	7523.5
	% Fixture	64.9	0.0	64.9
<b>Total</b>	Lumens	11584.1	0.0	11584.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	232.2	2.0
10°-20°	733.7	6.3
20°-30°	1191.8	10.3
30°-40°	1680.8	14.5
40°-50°	2322.8	20.1
50°-60°	2990.1	25.8
60°-70°	1894.6	16.4
70°-80°	486.2	4.2
80°-90°	52.0	0.4
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°	11584.1	100.0
0°-180°	11584.1	100.0

**Coefficient of Utilization**



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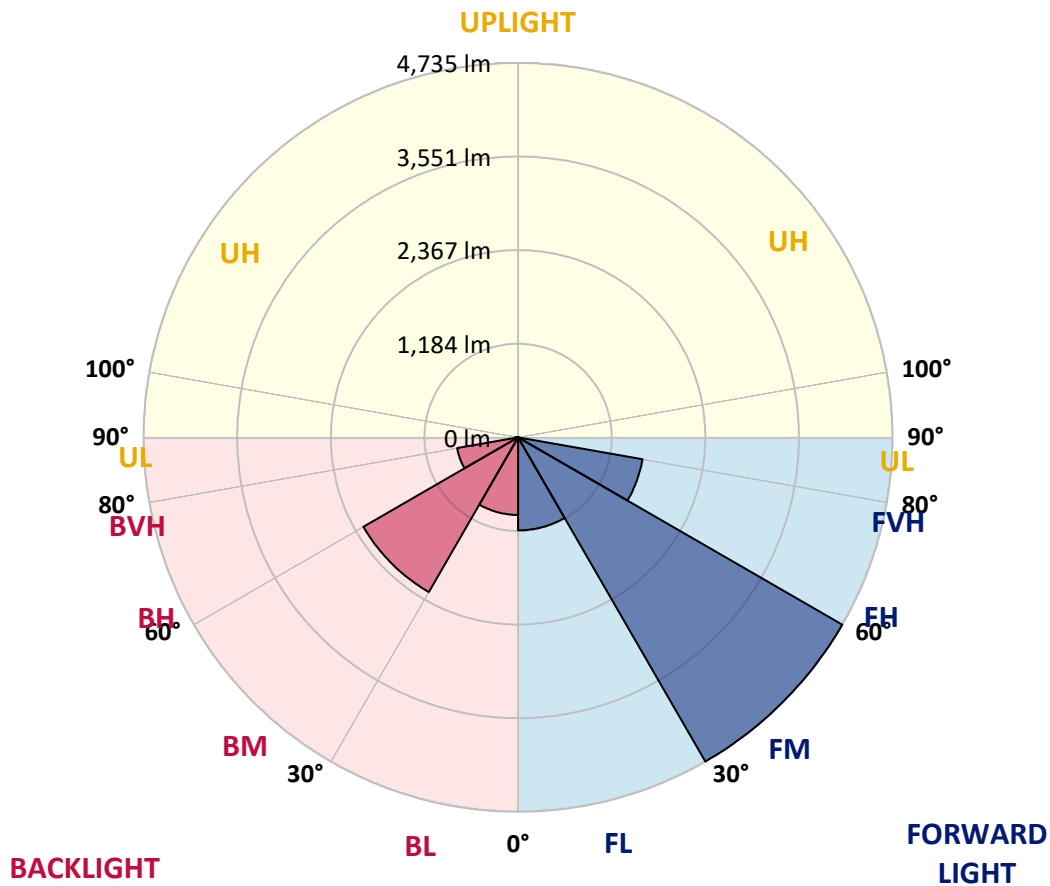
CATALOG NUMBER: GWS-SA4B-750-U-SLR-W-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1176.2	10.2			
FM (30°-60°)	4734.9	40.9			
FH (60°-80°)	1598.2	13.8			G1/1800
FVH (80°-90°)	14.1	0.1			G1/100
BL (0°-30°)	981.4	8.5	B2/1000		
BM (30°-60°)	2258.8	19.5	B2/2500		
BH (60°-80°)	782.5	6.8	B2/1000		G2/1000
BVH (80°-90°)	37.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7
2.5°	2489.0	2506.0	2516.6	2536.8	2572.9	2593.1	2615.3	2590.9	2597.3	2594.1	2554.8
5°	2636.6	2656.7	2684.3	2743.8	2810.7	2847.8	2882.8	2877.5	2844.6	2789.4	2750.2
7.5°	2774.6	2797.9	2845.7	2942.3	3041.0	3098.3	3140.8	3113.2	3085.6	2998.5	2899.8
10°	2882.8	2896.6	2961.4	3090.9	3205.5	3270.2	3322.3	3315.9	3277.7	3180.0	3047.3
12.5°	2984.7	2994.3	3064.3	3193.8	3296.8	3325.4	3367.9	3381.7	3369.0	3295.7	3165.2
15°	3094.1	3112.1	3176.8	3275.6	3322.3	3292.5	3307.4	3345.6	3381.7	3381.7	3261.8
17.5°	3195.9	3211.9	3277.7	3320.1	3275.6	3197.0	3201.3	3250.1	3336.1	3426.3	3349.9
20°	3286.2	3301.0	3365.8	3325.4	3184.3	3069.6	3066.5	3125.9	3264.9	3454.9	3444.3
22.5°	3384.9	3406.1	3460.2	3329.7	3099.4	2953.9	2952.9	3014.4	3202.3	3483.6	3552.6
25°	3525.0	3557.9	3585.5	3366.8	3053.7	2878.6	2892.4	2950.8	3182.2	3530.3	3712.9
27.5°	3733.0	3759.6	3757.4	3444.3	3051.6	2847.8	2876.5	2944.4	3218.2	3613.1	3881.6
30°	3958.1	3971.9	3949.6	3552.6	3100.4	2866.9	2909.4	2990.0	3309.5	3750.0	4130.0
32.5°	4207.5	4224.5	4182.0	3715.0	3214.0	3008.1	3101.5	3140.8	3438.0	3947.4	4393.2
35°	4494.1	4527.0	4438.9	3929.4	3548.3	3522.9	3658.7	3607.8	3710.7	4181.0	4674.5
37.5°	4795.5	4796.6	4670.3	4246.8	4204.3	4247.8	4519.5	4360.3	4289.2	4441.0	4961.1
40°	5051.3	5045.0	4850.7	4674.5	4775.3	4948.4	5276.3	5032.2	4845.4	4790.2	5198.9
42.5°	5307.1	5283.8	5087.4	4946.2	5169.1	5524.7	5895.2	5595.8	5202.0	5107.6	5433.4
45°	5634.0	5626.6	5389.9	5054.5	5524.7	6170.1	6661.5	6176.4	5413.3	5292.3	5824.0
47.5°	6161.6	6125.5	5685.0	5046.0	5858.0	7029.8	7650.7	6907.8	5560.8	5296.5	6454.5
50°	6677.4	6632.8	6037.4	5045.0	6201.9	7921.4	8818.3	7796.2	5711.5	5322.0	7095.6
52.5°	7198.6	7198.6	6615.9	5164.9	6562.8	8917.0	10167.4	8903.2	5968.4	5655.3	7884.3
55°	7508.5	7591.3	7266.5	5367.6	6985.2	10088.8	11501.6	10098.4	6365.4	6257.1	8612.4
57.5°	7114.7	7269.7	7223.0	5226.5	7234.7	10949.7	12633.1	11004.8	6561.7	6328.2	8503.1
60°	5797.5	6013.0	6120.2	4513.2	6988.4	11049.4	12869.8	11064.3	6156.3	5388.9	7283.5
62.5°	3854.0	4031.3	4194.7	3224.6	6050.1	9940.2	11382.7	9943.4	5141.5	4021.7	5046.0
65°	1890.4	2022.0	2198.2	1906.3	4726.5	8305.6	8874.6	8035.0	3719.2	2251.3	2574.0
67.5°	494.6	531.8	556.2	739.8	3385.9	5967.3	5787.9	5877.1	2389.3	735.6	672.9
70°	256.9	259.0	257.9	305.7	2288.4	3792.5	3988.8	3690.6	1667.5	307.8	265.4
72.5°	183.6	184.7	181.5	205.9	1104.9	2172.7	2251.3	2226.9	873.6	182.6	181.5
75°	119.9	121.0	118.9	121.0	166.6	247.3	228.2	239.9	145.4	115.7	115.7
77.5°	71.1	72.2	71.1	73.2	71.1	71.1	65.8	65.8	62.6	62.6	63.7
80°	47.8	47.8	46.7	48.8	44.6	44.6	42.5	41.4	38.2	37.1	37.1
82.5°	28.7	29.7	28.7	28.7	26.5	26.5	24.4	23.4	20.2	20.2	19.1
85°	14.9	14.9	13.8	13.8	11.7	10.6	8.5	8.5	6.4	5.3	5.3
87.5°	2.1	2.1	1.1	1.1	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°	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7
2.5°	2544.2	2523.0	2491.2	2460.4	2431.7	2402.0	2368.0	2333.0	2303.3	2272.5	2256.6
5°	2698.1	2654.6	2571.8	2498.6	2432.8	2378.7	2320.3	2270.4	2223.7	2185.5	2166.4
7.5°	2837.2	2769.3	2644.0	2528.3	2439.2	2364.9	2284.2	2209.9	2147.3	2100.6	2082.5
10°	2965.6	2885.0	2720.4	2574.0	2469.9	2387.1	2288.4	2187.6	2104.8	2043.2	2028.4
12.5°	3069.6	2977.3	2780.9	2611.1	2488.0	2398.8	2311.8	2224.7	2143.0	2063.4	2050.7
15°	3162.0	3052.7	2826.6	2634.5	2481.6	2368.0	2294.8	2284.2	2284.2	2194.0	2168.5
17.5°	3241.6	3121.6	2863.7	2645.1	2441.3	2276.8	2232.2	2324.5	2428.5	2363.8	2306.5
20°	3332.9	3187.5	2894.5	2645.1	2367.0	2161.1	2156.8	2313.9	2467.8	2468.9	2408.4
22.5°	3425.2	3263.9	2930.6	2635.5	2265.1	2027.3	2105.9	2271.4	2408.4	2466.8	2425.4
25°	3574.9	3370.0	2987.9	2628.1	2146.2	1936.0	2060.2	2215.2	2330.9	2392.5	2365.9
27.5°	3764.9	3510.1	3074.9	2639.8	2028.4	1881.9	2011.4	2142.0	2247.0	2301.2	2282.1
30°	3977.2	3671.5	3168.4	2659.9	1943.5	1854.3	1953.0	2058.1	2151.5	2205.6	2197.1
32.5°	4247.8	3846.6	3249.0	2632.3	1895.7	1840.5	1891.5	1966.8	2057.0	2091.0	2098.4
35°	4571.6	4039.8	3310.6	2524.1	1852.2	1825.7	1824.6	1871.3	1935.0	1989.1	1994.4
37.5°	4869.8	4265.9	3378.5	2338.3	1773.6	1788.5	1746.0	1773.6	1836.3	1890.4	1911.6
40°	5164.9	4495.1	3473.0	2101.6	1670.7	1705.7	1655.8	1674.9	1724.8	1795.9	1829.9
42.5°	5451.5	4702.1	3572.8	1859.6	1567.7	1590.0	1552.9	1572.0	1624.0	1713.1	1751.4
45°	5763.5	4982.3	3650.2	1631.4	1478.6	1469.0	1439.3	1466.9	1545.4	1643.1	1688.7
47.5°	6353.7	5423.9	3701.2	1479.6	1430.8	1361.8	1327.8	1387.3	1476.4	1575.2	1630.3
50°	7074.4	6062.9	3686.3	1383.0	1389.4	1251.4	1239.7	1318.3	1413.8	1516.8	1577.3
52.5°	7645.4	6690.2	3517.6	1290.7	1308.7	1181.4	1147.4	1262.0	1353.3	1458.4	1521.0
55°	8081.7	6901.4	2999.6	1181.4	1177.1	1130.4	1059.3	1203.7	1292.8	1390.5	1458.4
57.5°	7726.1	6431.2	2223.7	1030.6	1005.2	1029.6	960.6	1104.9	1218.5	1315.1	1375.6
60°	6412.1	5127.7	1238.7	912.8	840.6	900.1	889.5	1000.9	1137.8	1239.7	1291.8
62.5°	4352.9	3414.6	734.5	721.8	681.4	766.3	822.6	895.8	1030.6	1113.4	1162.3
65°	2169.6	1659.0	488.3	540.3	545.6	630.5	736.6	817.3	929.8	1014.7	1063.5
67.5°	629.4	515.9	371.5	412.9	470.2	538.1	623.1	718.6	827.9	928.7	986.1
70°	271.7	274.9	295.1	343.9	400.2	470.2	555.1	648.5	740.9	818.4	861.9
72.5°	192.1	199.5	221.8	271.7	324.8	391.7	476.6	566.8	633.7	712.2	757.9
75°	123.1	128.4	146.5	184.7	224.0	288.7	369.4	452.2	521.2	577.4	620.9
77.5°	67.9	69.0	83.9	106.1	132.7	174.1	233.5	298.3	349.2	381.1	420.3
80°	39.3	39.3	46.7	60.5	76.4	101.9	134.8	166.6	197.4	217.6	236.7
82.5°	21.2	21.2	24.4	32.9	41.4	56.3	75.4	91.3	110.4	121.0	133.7
85°	6.4	6.4	8.5	11.7	14.9	21.2	29.7	38.2	46.7	54.1	61.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
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°	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7
2.5°	2253.4	2238.5	2230.1	2219.4	2222.6	2213.1	2207.8	2210.9	2191.8	2210.9	2230.1
5°	2158.9	2137.7	2120.7	2106.9	2100.6	2087.8	2080.4	2080.4	2068.7	2087.8	2111.2
7.5°	2076.1	2059.2	2050.7	2042.2	2032.6	2021.0	2008.2	2004.0	1996.5	2016.7	2036.9
10°	2021.0	2023.1	2028.4	2040.1	2037.9	2030.5	2011.4	2000.8	2000.8	2024.1	2054.9
12.5°	2046.4	2068.7	2081.5	2102.7	2106.9	2100.6	2081.5	2073.0	2094.2	2129.2	2180.2
15°	2145.1	2160.0	2170.6	2187.6	2186.5	2181.2	2166.4	2172.7	2242.8	2310.7	2356.4
17.5°	2252.3	2235.4	2233.2	2243.9	2247.0	2240.7	2232.2	2260.8	2376.5	2440.2	2463.6
20°	2329.8	2271.4	2258.7	2263.0	2271.4	2268.3	2268.3	2315.0	2434.9	2464.6	2434.9
22.5°	2353.2	2270.4	2251.3	2252.3	2264.0	2265.1	2270.4	2319.2	2389.3	2390.3	2344.7
25°	2316.0	2236.4	2222.6	2224.7	2238.5	2237.5	2239.6	2267.2	2298.0	2285.2	2251.3
27.5°	2246.0	2177.0	2172.7	2184.4	2202.5	2192.9	2186.5	2194.0	2208.8	2192.9	2163.2
30°	2166.4	2108.0	2110.1	2132.4	2151.5	2135.6	2119.7	2123.9	2125.0	2108.0	2074.0
32.5°	2082.5	2039.0	2046.4	2069.8	2092.1	2075.1	2058.1	2056.0	2035.8	2015.6	1982.7
35°	1998.7	1981.7	1991.2	2010.3	2029.4	2015.6	2005.0	1998.7	1955.1	1925.4	1897.8
37.5°	1922.2	1935.0	1952.0	1963.6	1970.0	1968.9	1962.6	1947.7	1890.4	1855.4	1819.3
40°	1854.3	1893.6	1911.6	1916.9	1926.5	1924.4	1923.3	1902.1	1826.7	1789.6	1748.2
42.5°	1792.7	1847.9	1878.7	1884.0	1889.3	1890.4	1887.2	1856.4	1770.5	1726.9	1687.7
45°	1733.3	1805.5	1844.8	1839.4	1846.9	1846.9	1850.1	1809.7	1715.3	1670.7	1629.3
47.5°	1681.3	1766.2	1802.3	1795.9	1800.2	1803.4	1806.5	1759.8	1654.8	1612.3	1569.8
50°	1633.5	1723.8	1754.5	1756.7	1756.7	1764.1	1763.0	1717.4	1603.8	1558.2	1515.7
52.5°	1582.6	1680.2	1713.1	1726.9	1731.2	1734.4	1719.5	1666.4	1551.8	1496.6	1457.3
55°	1523.1	1635.7	1665.4	1683.4	1691.9	1689.8	1669.6	1615.5	1498.7	1443.5	1399.0
57.5°	1432.9	1540.1	1582.6	1591.1	1604.9	1596.4	1573.0	1527.4	1413.8	1358.6	1313.0
60°	1334.2	1411.7	1445.7	1453.1	1442.5	1445.7	1442.5	1399.0	1300.2	1256.7	1210.0
62.5°	1204.7	1273.7	1309.8	1319.4	1301.3	1313.0	1308.7	1254.6	1155.9	1110.3	1068.9
65°	1107.1	1182.4	1224.9	1230.2	1224.9	1230.2	1215.3	1149.5	1056.1	1009.4	967.0
67.5°	1030.6	1108.1	1152.7	1167.6	1162.3	1161.2	1137.8	1061.4	964.8	913.9	859.8
70°	899.0	967.0	1024.3	1060.4	1060.4	1040.2	995.6	924.5	847.0	803.5	761.0
72.5°	796.1	882.0	938.3	975.4	982.9	971.2	908.6	833.2	744.1	700.5	656.0
75°	656.0	739.8	800.3	849.1	858.7	846.0	773.8	699.5	616.7	574.2	529.7
77.5°	438.4	488.3	537.1	581.7	572.1	580.6	531.8	475.5	424.6	392.7	372.6
80°	247.3	280.2	295.1	319.5	319.5	319.5	287.6	261.1	232.5	214.4	194.2
82.5°	140.1	161.3	167.7	187.9	193.2	194.2	173.0	156.0	138.0	128.4	114.6
85°	64.7	76.4	77.5	89.2	93.4	101.9	92.3	80.7	70.1	65.8	57.3
87.5°	2.1	6.4	8.5	15.9	21.2	24.4	26.5	26.5	22.3	20.2	17.0
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: P636834

CATALOG NUMBER: GWS-SA4B-750-U-SLR-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7
2.5°	2253.4	2278.9	2308.6	2329.8	2368.0	2399.9	2432.8	2468.9	2495.4	2489.0
5°	2139.8	2182.3	2236.4	2286.3	2357.4	2429.6	2509.2	2590.9	2638.7	2636.6
7.5°	2076.1	2136.6	2202.5	2269.3	2353.2	2457.2	2579.3	2706.6	2771.4	2774.6
10°	2110.1	2174.9	2219.4	2275.7	2363.8	2494.3	2640.8	2793.7	2868.0	2882.8
12.5°	2217.3	2212.0	2208.8	2249.2	2355.3	2520.9	2700.3	2882.8	2966.7	2984.7
15°	2319.2	2209.9	2144.1	2171.7	2317.1	2537.9	2758.6	2980.5	3074.9	3094.1
17.5°	2338.3	2172.7	2050.7	2069.8	2256.6	2543.2	2814.9	3076.0	3177.9	3195.9
20°	2285.2	2125.0	1982.7	1956.2	2180.2	2529.4	2849.9	3155.6	3267.1	3286.2
22.5°	2218.4	2082.5	1931.8	1862.8	2086.8	2515.6	2889.2	3239.5	3367.9	3384.9
25°	2148.3	2028.4	1884.0	1778.9	1980.6	2507.1	2955.0	3349.9	3504.8	3525.0
27.5°	2074.0	1962.6	1842.6	1738.6	1883.0	2517.7	3048.4	3528.2	3704.4	3733.0
30°	1994.4	1896.8	1816.1	1724.8	1816.1	2527.3	3151.4	3710.7	3917.7	3958.1
32.5°	1911.6	1836.3	1788.5	1731.2	1774.7	2505.0	3241.6	3915.6	4172.5	4207.5
35°	1828.8	1774.7	1753.5	1742.9	1719.5	2423.2	3314.8	4122.6	4463.3	4494.1
37.5°	1751.4	1711.0	1704.6	1716.3	1634.6	2289.5	3399.7	4385.8	4748.8	4795.5
40°	1679.2	1642.0	1641.0	1638.8	1541.2	2106.9	3514.4	4653.3	5030.1	5051.3
42.5°	1612.3	1565.6	1574.1	1548.6	1464.8	1909.5	3622.6	4881.5	5292.3	5307.1
45°	1552.9	1491.3	1500.9	1469.0	1428.7	1702.5	3718.2	5151.1	5624.5	5634.0
47.5°	1495.5	1429.7	1403.2	1401.1	1422.3	1511.5	3811.6	5670.1	6144.6	6161.6
50°	1442.5	1371.4	1296.0	1342.7	1383.0	1368.2	3928.3	6226.3	6681.7	6677.4
52.5°	1391.5	1298.1	1190.9	1281.1	1281.1	1262.0	3895.4	6563.8	7125.3	7198.6
55°	1333.1	1180.3	1081.6	1178.2	1131.5	1166.5	3312.7	6674.2	7404.5	7508.5
57.5°	1217.5	1034.9	948.9	1000.9	930.9	1081.6	2379.7	6126.5	6930.0	7114.7
60°	1106.0	927.7	871.4	861.9	770.6	882.0	1542.2	4796.6	5704.1	5797.5
62.5°	975.4	835.3	787.6	714.3	619.9	642.2	934.1	3156.7	3832.8	3854.0
65°	876.7	756.8	665.5	578.5	507.4	466.0	551.9	1522.1	1915.9	1890.4
67.5°	752.5	648.5	561.5	498.9	440.5	388.5	367.3	452.2	511.6	494.6
70°	669.8	570.0	486.1	426.7	372.6	320.6	283.4	266.4	261.1	256.9
72.5°	577.4	490.4	403.3	346.0	295.1	247.3	213.3	193.2	187.9	183.6
75°	460.7	378.9	299.3	245.2	200.6	166.6	144.4	127.4	124.2	119.9
77.5°	304.6	243.1	178.3	145.4	118.9	100.8	86.0	75.4	73.2	71.1
80°	167.7	140.1	109.3	88.1	71.1	61.6	56.3	49.9	48.8	47.8
82.5°	99.8	83.9	62.6	49.9	41.4	37.1	34.0	30.8	29.7	28.7
85°	49.9	39.3	27.6	23.4	21.2	19.1	19.1	15.9	14.9	14.9
87.5°	12.7	10.6	6.4	5.3	5.3	5.3	4.2	3.2	3.2	2.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)