

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: P636830

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636830
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-39)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-750-U-SLL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT 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: 11524.7 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

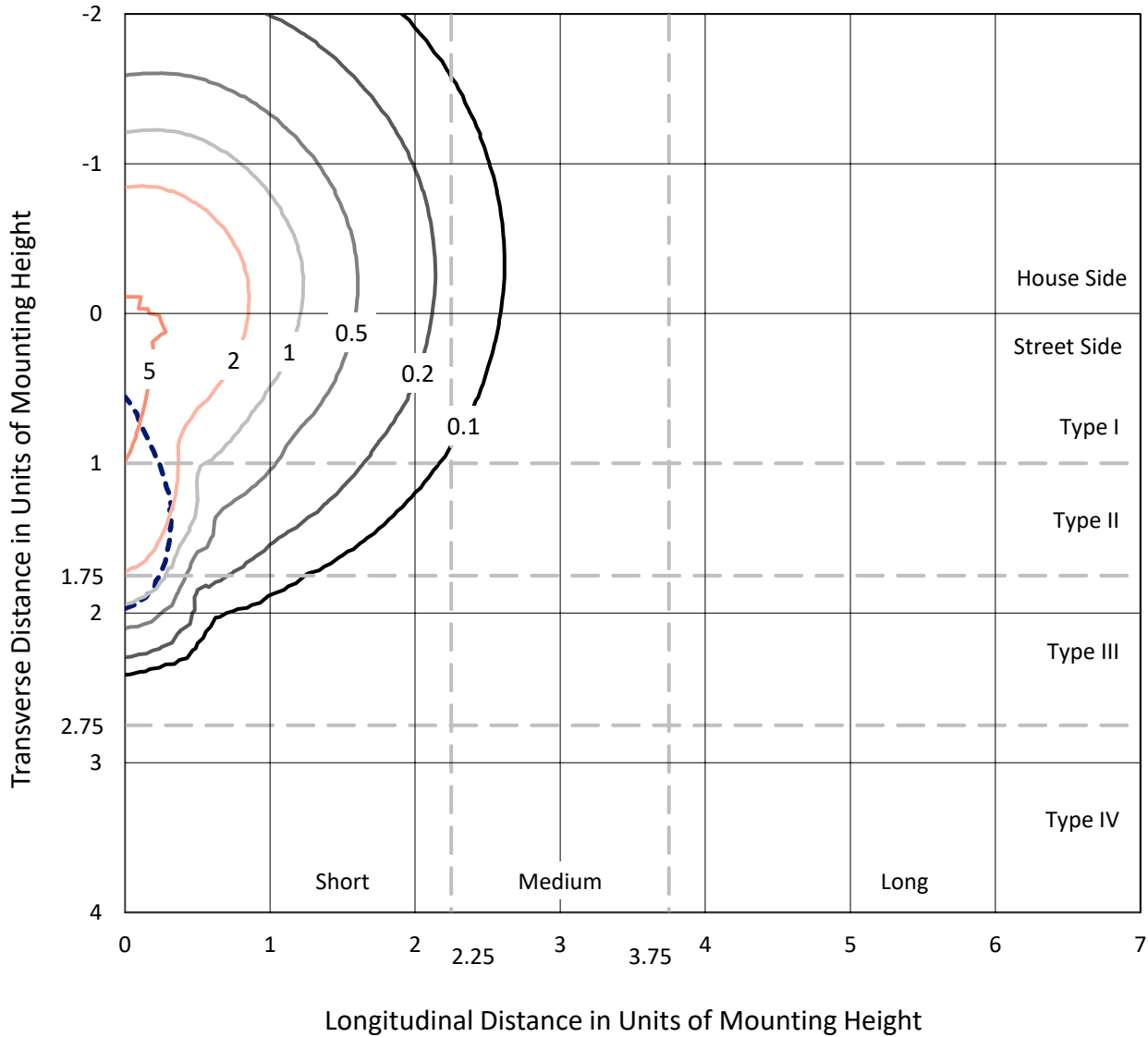
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

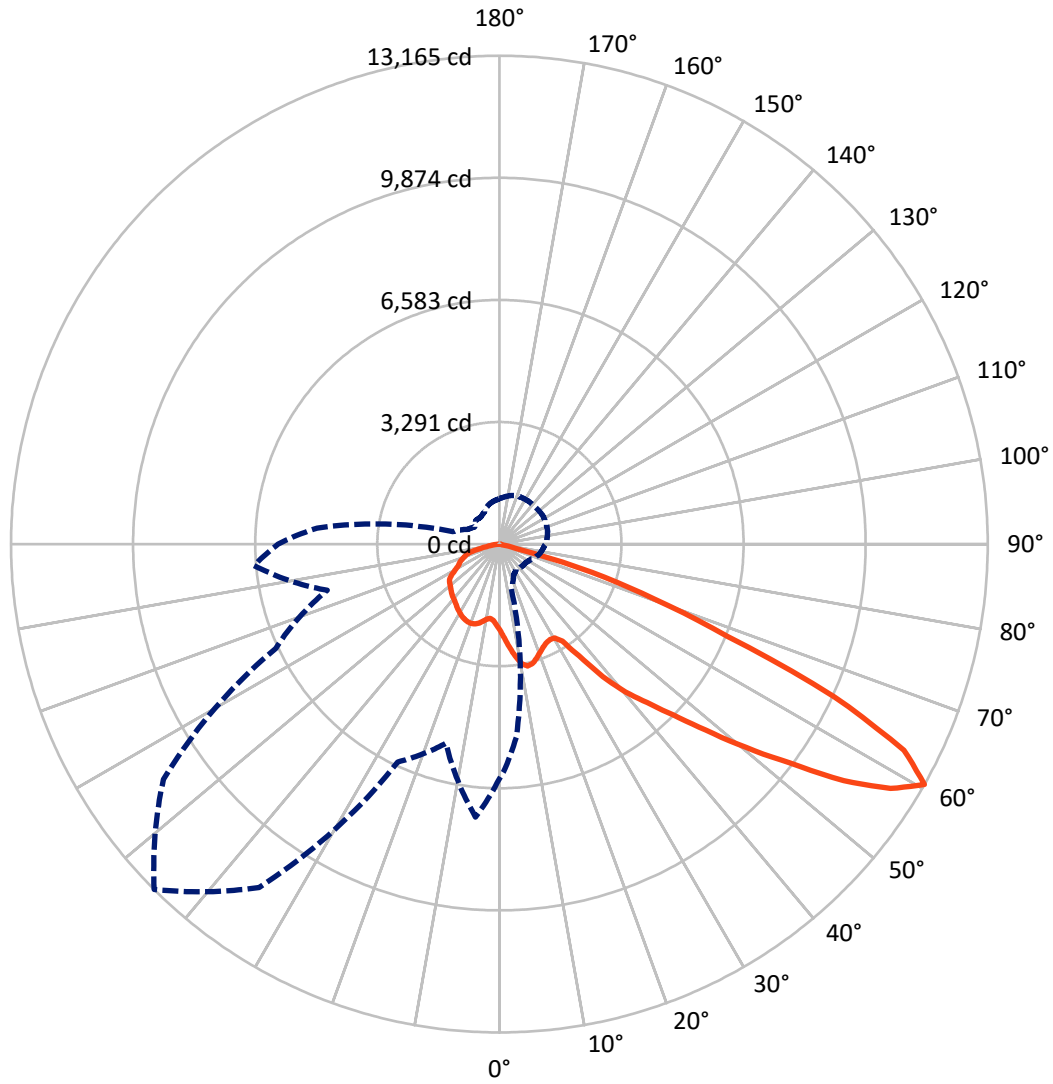
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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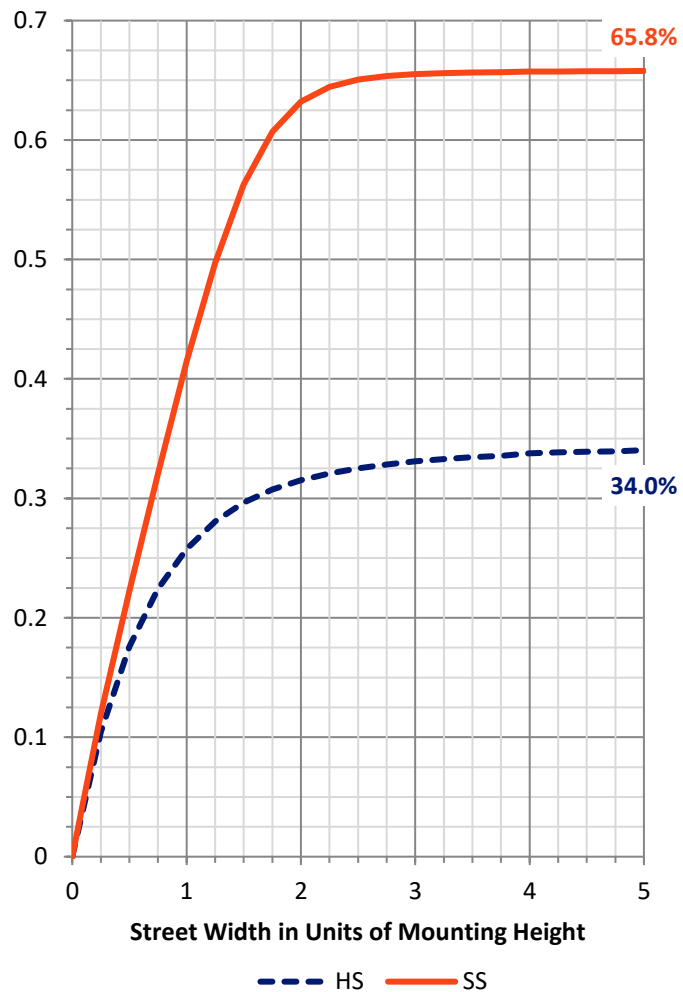
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3942.5	0.0	3942.5
	% Fixture	34.2	0.0	34.2
Street Side	Lumens	7582.2	0.0	7582.2
	% Fixture	65.8	0.0	65.8
Total	Lumens	11524.7	0.0	11524.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.1	2.0
10°-20°	728.4	6.3
20°-30°	1186.3	10.3
30°-40°	1666.5	14.5
40°-50°	2280.4	19.8
50°-60°	2925.6	25.4
60°-70°	1970.0	17.1
70°-80°	492.5	4.3
80°-90°	48.0	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°	11524.7	100.0
0°-180°	11524.7	100.0

Coefficient of Utilization



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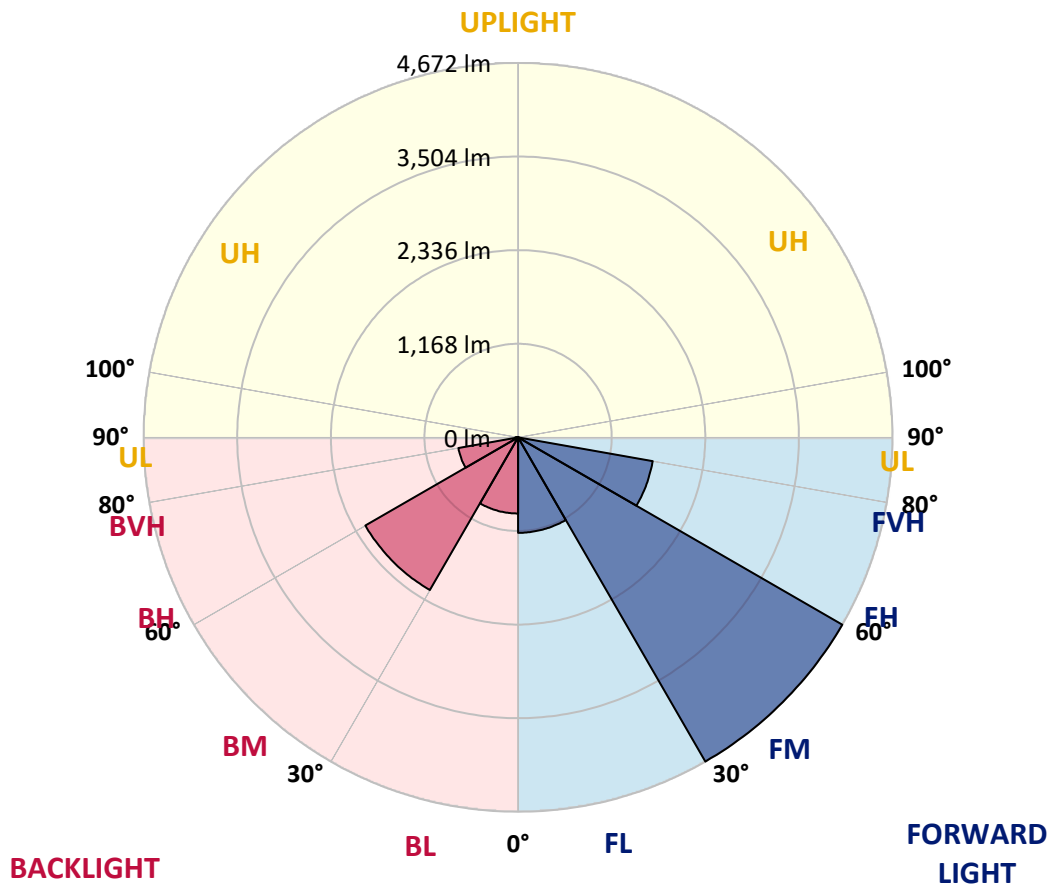
CATALOG NUMBER: GWS-SA4B-750-U-SLL-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1191.4	10.3			
FM (30°-60°)	4672.2	40.5			
FH (60°-80°)	1706.1	14.8			G1/1800
FVH (80°-90°)	12.5	0.1			G1/100
BL (0°-30°)	950.4	8.2	B2/1000		
BM (30°-60°)	2200.2	19.1	B2/2500		
BH (60°-80°)	756.4	6.6	B2/1000		G2/1000
BVH (80°-90°)	35.5	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°	2324.4	2324.4	2324.4	2324.4	2324.4	2324.4	2324.4	2324.4	2324.4	2324.4	2324.4
2.5°	2459.2	2453.9	2448.6	2407.2	2396.6	2366.9	2345.6	2319.1	2280.9	2259.7	2241.6
5°	2613.1	2604.6	2576.0	2491.0	2435.9	2375.4	2325.5	2270.3	2211.9	2173.7	2144.0
7.5°	2758.5	2756.4	2707.6	2567.5	2478.3	2391.3	2323.3	2242.7	2158.8	2101.5	2063.3
10°	2893.3	2877.4	2819.0	2636.5	2519.7	2419.9	2346.7	2257.5	2159.9	2082.4	2031.5
12.5°	3012.2	2992.0	2911.3	2700.1	2555.8	2432.7	2353.1	2279.8	2215.1	2150.3	2092.0
15°	3109.8	3085.4	3003.7	2759.6	2587.6	2425.2	2313.8	2256.5	2278.8	2307.4	2242.7
17.5°	3201.1	3175.6	3075.9	2803.1	2597.2	2379.6	2217.2	2192.8	2305.3	2435.9	2406.1
20°	3277.5	3248.9	3133.2	2824.3	2580.2	2292.6	2092.0	2134.4	2283.0	2439.0	2486.8
22.5°	3360.3	3337.0	3197.9	2855.1	2559.0	2172.6	1986.9	2090.9	2244.8	2381.7	2453.9
25°	3493.0	3464.3	3298.8	2909.2	2548.4	2060.1	1911.5	2048.5	2191.7	2315.9	2372.2
27.5°	3685.1	3632.0	3436.7	3003.7	2560.0	1954.0	1863.8	1996.4	2130.2	2236.3	2282.0
30°	3894.2	3830.5	3589.6	3101.3	2577.0	1889.2	1838.3	1937.0	2035.7	2141.9	2191.7
32.5°	4141.5	4085.2	3753.0	3174.6	2540.9	1859.5	1819.2	1872.3	1950.8	2035.7	2077.1
35°	4436.5	4335.7	3931.3	3234.0	2424.2	1816.0	1802.2	1801.2	1842.5	1925.3	1972.0
37.5°	4753.9	4645.6	4151.0	3297.7	2242.7	1747.0	1761.9	1717.3	1755.5	1821.3	1874.4
40°	5013.9	4900.4	4372.9	3384.7	2015.5	1638.8	1672.7	1625.0	1648.3	1716.2	1775.7
42.5°	5268.7	5147.7	4579.8	3483.4	1795.8	1532.6	1549.6	1531.6	1539.0	1610.1	1692.9
45°	5603.0	5467.1	4834.6	3553.5	1598.4	1448.8	1432.9	1402.1	1441.3	1533.7	1621.8
47.5°	6161.3	5998.9	5251.7	3599.1	1455.1	1401.0	1327.8	1309.7	1358.6	1461.5	1552.8
50°	6814.0	6673.9	5918.2	3597.0	1347.9	1360.7	1225.9	1210.0	1290.6	1394.6	1491.2
52.5°	7349.0	7206.7	6488.2	3490.9	1259.9	1274.7	1166.5	1121.9	1232.3	1328.8	1425.4
55°	7780.9	7620.7	6750.3	3047.2	1148.4	1137.8	1101.7	1020.0	1159.0	1263.0	1353.3
57.5°	7548.5	7357.4	6433.0	2317.0	1033.8	966.9	990.3	929.8	1059.3	1189.8	1276.8
60°	6329.0	6157.0	5226.2	1233.3	909.6	807.7	856.5	866.1	949.9	1101.7	1190.9
62.5°	4347.4	4222.1	3541.8	748.3	717.5	648.5	724.9	793.9	856.5	985.0	1062.4
65°	2127.0	2089.8	1771.4	479.7	502.0	524.3	600.7	684.6	776.9	889.4	971.2
67.5°	585.9	590.1	537.1	374.7	395.9	457.5	518.0	584.8	677.2	781.2	864.0
70°	257.9	262.2	270.7	288.7	329.0	385.3	447.9	516.9	601.8	688.8	768.4
72.5°	179.4	183.6	196.4	219.7	255.8	308.9	368.3	434.1	522.2	595.4	661.2
75°	110.4	113.6	125.2	145.4	169.8	210.2	268.5	329.0	406.5	473.4	531.7
77.5°	58.4	56.3	63.7	77.5	98.7	119.9	159.2	197.4	252.6	306.7	355.6
80°	31.8	30.8	35.0	42.5	48.8	65.8	92.3	117.8	149.7	180.4	207.0
82.5°	13.8	12.7	13.8	18.0	22.3	31.8	46.7	64.7	82.8	104.0	121.0
85°	0.0	0.0	0.0	1.1	5.3	8.5	15.9	23.4	34.0	46.7	57.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	9.6
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°	2324.4	2324.4	2324.4	2324.4	2324.4	2324.4	2324.4	2324.4	2324.4	2324.4	2324.4
2.5°	2231.0	2204.5	2202.4	2181.1	2183.2	2184.3	2163.1	2154.6	2162.0	2170.5	2166.3
5°	2133.4	2105.8	2094.1	2073.9	2071.8	2062.3	2053.8	2043.1	2050.6	2058.0	2062.3
7.5°	2048.5	2030.4	2023.0	2017.7	2019.8	2015.5	1998.6	1989.0	1988.0	1991.1	1995.4
10°	2020.9	2006.0	2015.5	2030.4	2041.0	2048.5	2030.4	2014.5	1999.6	1993.3	1993.3
12.5°	2080.3	2061.2	2080.3	2096.2	2117.4	2122.7	2102.6	2085.6	2080.3	2086.7	2099.4
15°	2211.9	2167.3	2166.3	2175.8	2192.8	2201.3	2182.2	2173.7	2173.7	2214.0	2245.9
17.5°	2343.5	2270.3	2239.5	2234.2	2244.8	2248.0	2232.1	2224.6	2243.7	2322.3	2381.7
20°	2435.9	2346.7	2279.8	2267.1	2270.3	2271.3	2258.6	2253.3	2280.9	2376.4	2426.3
22.5°	2426.3	2360.5	2278.8	2262.8	2268.2	2266.0	2254.4	2252.2	2274.5	2357.3	2380.7
25°	2360.5	2309.6	2240.6	2229.9	2238.4	2237.4	2225.7	2220.4	2229.9	2285.1	2287.3
27.5°	2285.1	2240.6	2181.1	2177.9	2191.7	2199.2	2179.0	2163.1	2159.9	2197.0	2188.6
30°	2194.9	2162.0	2114.3	2116.4	2141.9	2146.1	2121.7	2098.3	2092.0	2112.1	2100.5
32.5°	2087.7	2077.1	2051.6	2056.9	2081.4	2089.8	2064.4	2040.0	2032.5	2038.9	2014.5
35°	1996.4	1992.2	1994.3	2003.9	2025.1	2031.5	2010.2	1991.1	1980.5	1958.2	1926.4
37.5°	1902.0	1913.7	1944.4	1962.5	1974.2	1972.0	1960.4	1946.6	1929.6	1888.2	1848.9
40°	1813.9	1843.6	1898.8	1919.0	1923.2	1924.3	1915.8	1904.1	1882.9	1827.7	1783.1
42.5°	1746.0	1778.9	1852.1	1882.9	1885.0	1887.1	1878.6	1869.1	1839.4	1766.1	1722.6
45°	1674.8	1718.4	1804.3	1841.5	1839.4	1838.3	1830.9	1826.6	1791.6	1706.7	1658.9
47.5°	1614.4	1665.3	1757.6	1789.5	1788.4	1787.4	1782.0	1782.0	1747.0	1654.7	1600.6
50°	1554.9	1613.3	1709.9	1736.4	1738.5	1736.4	1734.3	1737.5	1696.1	1597.4	1544.3
52.5°	1490.2	1556.0	1656.8	1681.2	1694.0	1699.3	1699.3	1691.8	1643.0	1540.1	1481.7
55°	1419.1	1481.7	1598.4	1631.3	1641.9	1651.5	1651.5	1636.6	1591.0	1487.0	1424.4
57.5°	1331.0	1386.2	1478.5	1511.4	1536.9	1543.2	1543.2	1518.8	1481.7	1381.9	1331.0
60°	1235.4	1283.2	1345.8	1380.8	1400.0	1387.2	1396.8	1390.4	1360.7	1268.3	1225.9
62.5°	1108.1	1156.9	1225.9	1262.0	1270.5	1257.7	1270.5	1269.4	1229.1	1146.3	1095.3
65°	1016.8	1064.6	1132.5	1179.2	1193.0	1189.8	1198.3	1185.6	1135.7	1057.1	1008.3
67.5°	908.5	959.5	1038.0	1090.0	1118.7	1121.9	1133.5	1107.0	1056.1	970.1	908.5
70°	805.6	849.1	909.6	958.4	998.8	1018.9	1021.0	982.8	919.2	848.0	803.5
72.5°	697.3	741.9	815.1	868.2	919.2	942.5	942.5	895.8	826.8	748.3	700.5
75°	565.7	607.1	674.0	731.3	789.7	819.4	818.3	778.0	701.6	627.3	577.4
77.5°	383.2	413.9	456.4	499.9	508.4	531.7	543.4	492.5	450.0	409.7	365.1
80°	222.9	242.0	265.3	289.8	295.1	302.5	283.4	264.3	242.0	215.5	195.3
82.5°	130.5	143.3	155.0	174.1	177.2	179.4	162.4	153.9	135.9	119.9	107.2
85°	63.7	67.9	78.5	88.1	83.8	81.7	74.3	65.8	58.4	52.0	45.6
87.5°	12.7	12.7	19.1	18.0	14.9	12.7	7.4	9.6	2.1	2.1	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°	2324.4	2324.4	2324.4	2324.4	2324.4	2324.4	2324.4	2324.4	2324.4	2324.4	2324.4
2.5°	2180.1	2198.1	2220.4	2250.1	2284.1	2320.2	2355.2	2381.7	2408.3	2447.5	2441.2
5°	2068.6	2099.4	2134.4	2180.1	2235.3	2297.9	2367.9	2438.0	2513.3	2577.0	2604.6
7.5°	2003.9	2037.8	2079.2	2138.7	2209.8	2286.2	2384.9	2498.5	2620.5	2704.4	2756.4
10°	2003.9	2047.4	2101.5	2158.8	2221.5	2300.0	2422.1	2564.3	2721.4	2831.7	2892.2
12.5°	2119.6	2163.1	2174.8	2172.6	2207.7	2294.7	2451.8	2633.3	2821.1	2937.9	3012.2
15°	2300.0	2314.9	2226.8	2146.1	2151.4	2256.5	2465.6	2688.5	2907.1	3047.2	3127.9
17.5°	2421.0	2381.7	2224.6	2083.5	2053.8	2191.7	2465.6	2741.5	2998.4	3156.5	3231.9
20°	2430.5	2332.9	2170.5	2023.0	1946.6	2105.8	2448.6	2781.9	3086.5	3261.6	3342.3
22.5°	2346.7	2250.1	2113.2	1971.0	1858.5	2001.8	2421.0	2812.6	3161.8	3360.3	3460.1
25°	2251.2	2170.5	2054.8	1917.9	1798.0	1896.7	2395.5	2864.6	3266.9	3494.0	3594.9
27.5°	2157.8	2089.8	1984.8	1873.3	1764.0	1805.4	2379.6	2941.1	3392.2	3684.0	3771.1
30°	2066.5	2004.9	1909.4	1830.9	1746.0	1746.0	2365.8	3029.2	3557.7	3897.4	3984.4
32.5°	1974.2	1915.8	1838.3	1789.5	1735.3	1722.6	2327.6	3111.9	3728.6	4130.9	4220.0
35°	1888.2	1829.8	1770.4	1750.2	1730.0	1704.6	2233.1	3176.7	3895.2	4403.6	4480.1
37.5°	1807.5	1751.3	1706.7	1701.4	1703.5	1655.7	2084.5	3230.8	4103.3	4682.8	4723.1
40°	1737.5	1674.8	1639.8	1638.8	1649.4	1577.2	1896.7	3308.3	4341.0	4919.5	4902.5
42.5°	1674.8	1609.0	1566.6	1576.1	1569.8	1498.7	1713.1	3379.4	4548.0	5141.3	5107.3
45°	1613.3	1549.6	1490.2	1504.0	1496.5	1449.8	1557.0	3431.4	4777.2	5407.7	5411.9
47.5°	1553.9	1491.2	1431.8	1414.8	1413.8	1435.0	1437.1	3448.4	5150.8	5836.5	5739.9
50°	1498.7	1436.0	1374.5	1317.2	1339.5	1405.3	1347.9	3435.7	5710.2	6309.9	6040.3
52.5°	1441.3	1381.9	1314.0	1211.0	1269.4	1334.1	1268.3	3390.0	6052.0	6728.1	6566.7
55°	1375.5	1319.3	1226.9	1101.7	1172.8	1186.6	1186.6	2948.5	6197.4	7142.0	7241.8
57.5°	1287.4	1213.2	1066.7	965.9	1029.5	976.5	1099.6	2063.3	5957.5	7011.4	7398.8
60°	1187.7	1108.1	953.1	880.9	900.0	806.6	937.2	1293.8	4937.5	5966.0	6636.8
62.5°	1056.1	982.8	854.4	798.2	758.9	658.1	754.6	818.3	3384.7	4430.2	4887.6
65°	968.0	887.3	772.7	698.4	617.7	529.6	501.0	537.1	1820.3	2479.4	2788.2
67.5°	864.0	784.4	676.1	582.7	518.0	454.3	404.4	391.6	624.1	825.7	893.7
70°	765.3	688.8	598.6	511.6	446.8	384.2	335.4	300.4	288.7	286.6	282.3
72.5°	664.4	593.3	518.0	437.3	366.2	308.9	265.3	225.0	208.0	202.7	197.4
75°	544.5	488.2	412.9	325.8	268.5	215.5	181.5	155.0	140.1	134.8	128.4
77.5°	350.3	324.8	259.0	210.2	162.4	128.4	110.4	93.4	83.8	81.7	76.4
80°	186.8	174.1	143.3	121.0	96.6	78.5	69.0	59.4	54.1	52.0	49.9
82.5°	104.0	94.5	79.6	70.1	56.3	47.8	42.5	38.2	35.0	34.0	32.9
85°	46.7	40.3	31.8	29.7	26.5	24.4	23.4	21.2	20.2	19.1	18.0
87.5°	2.1	4.2	5.3	4.2	4.2	6.4	7.4	7.4	6.4	6.4	5.3
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: P636830

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

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2324.4	2324.4	2324.4	2324.4	2324.4	2324.4	2324.4	2324.4	2324.4	2324.4
2.5°	2480.4	2512.3	2515.5	2526.1	2512.3	2509.1	2486.8	2474.1	2462.4	2459.2
5°	2673.6	2737.3	2762.8	2780.8	2763.8	2755.3	2706.5	2655.6	2626.9	2613.1
7.5°	2872.1	2967.6	3017.5	3039.8	3041.9	3003.7	2919.8	2824.3	2776.6	2758.5
10°	3049.3	3167.1	3232.9	3275.4	3260.5	3213.8	3099.2	2969.7	2909.2	2893.3
12.5°	3180.9	3293.4	3344.4	3372.0	3370.9	3345.5	3237.2	3097.1	3028.1	3012.2
15°	3265.8	3332.7	3335.9	3342.3	3360.3	3394.3	3338.0	3208.5	3132.1	3109.8
17.5°	3332.7	3306.2	3256.3	3239.3	3279.6	3374.1	3408.1	3303.0	3220.2	3201.1
20°	3375.2	3241.4	3153.3	3120.4	3167.1	3321.0	3450.5	3387.9	3301.9	3277.5
22.5°	3408.1	3180.9	3038.7	3016.4	3065.2	3263.7	3494.0	3488.7	3394.3	3360.3
25°	3460.1	3140.6	2958.0	2942.1	2987.8	3236.1	3552.4	3625.7	3541.8	3493.0
27.5°	3541.8	3136.4	2916.7	2911.3	2974.0	3260.5	3636.3	3826.3	3721.2	3685.1
30°	3655.4	3176.7	2926.2	2936.8	3013.2	3348.6	3766.8	4055.5	3950.4	3894.2
32.5°	3818.8	3285.0	3071.6	3117.3	3173.5	3489.8	3957.9	4303.9	4224.3	4141.5
35°	4034.3	3582.1	3501.5	3695.7	3642.6	3798.7	4188.2	4605.3	4508.7	4436.5
37.5°	4321.9	4191.4	4265.7	4533.1	4404.7	4382.4	4469.4	4879.1	4826.1	4753.9
40°	4725.2	4751.8	4888.7	5240.0	5054.3	4911.0	4814.4	5085.0	5103.1	5013.9
42.5°	4992.7	5114.8	5444.8	5843.9	5588.1	5245.3	5103.1	5348.3	5349.3	5268.7
45°	5092.5	5411.9	6101.8	6561.4	6133.7	5436.4	5262.3	5705.9	5695.3	5603.0
47.5°	5056.4	5662.4	6784.3	7486.9	6834.2	5572.2	5240.0	6215.4	6301.4	6161.3
50°	4981.0	5914.0	7581.4	8620.5	7693.9	5716.6	5206.0	6780.1	6922.3	6814.0
52.5°	5057.4	6194.2	8523.9	9792.2	8772.3	5946.9	5435.3	7505.0	7479.5	7349.0
55°	5299.4	6525.3	9669.1	11264.4	9956.8	6336.4	6024.4	8195.9	7937.0	7780.9
57.5°	5287.8	6762.0	10673.2	12428.7	10987.3	6655.9	6229.2	8269.2	7745.9	7548.5
60°	4799.5	6653.8	11055.3	13165.3	11298.3	6479.7	5555.2	7386.1	6535.9	6329.0
62.5°	3582.1	5904.4	10314.4	12243.0	10418.4	5596.6	4177.6	5301.6	4696.6	4347.4
65°	2291.5	4619.1	8671.4	9918.5	8587.6	4280.5	2487.9	2842.4	2226.8	2127.0
67.5°	975.4	3260.5	6740.8	6629.3	6424.5	2773.4	960.5	800.3	596.5	585.9
70°	322.7	2218.3	4155.3	4421.7	3836.9	1910.5	317.4	268.5	267.5	257.9
72.5°	211.2	1190.9	2339.3	2604.6	2468.8	1099.6	192.1	179.4	183.6	179.4
75°	126.3	259.0	393.8	511.6	393.8	184.7	115.7	113.6	115.7	110.4
77.5°	74.3	72.2	70.1	70.1	69.0	63.7	58.4	56.3	57.3	58.4
80°	47.8	45.6	43.5	42.5	37.1	35.0	32.9	30.8	30.8	31.8
82.5°	30.8	28.7	26.5	23.4	19.1	15.9	14.9	12.7	12.7	13.8
85°	15.9	12.7	9.6	7.4	4.2	2.1	0.0	0.0	0.0	0.0
87.5°	3.2	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)