

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: P633365

Luminaire Tested: GWS-SA2E-750-U-SLL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633365
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-SA2E-750-U-SLL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11617.6 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

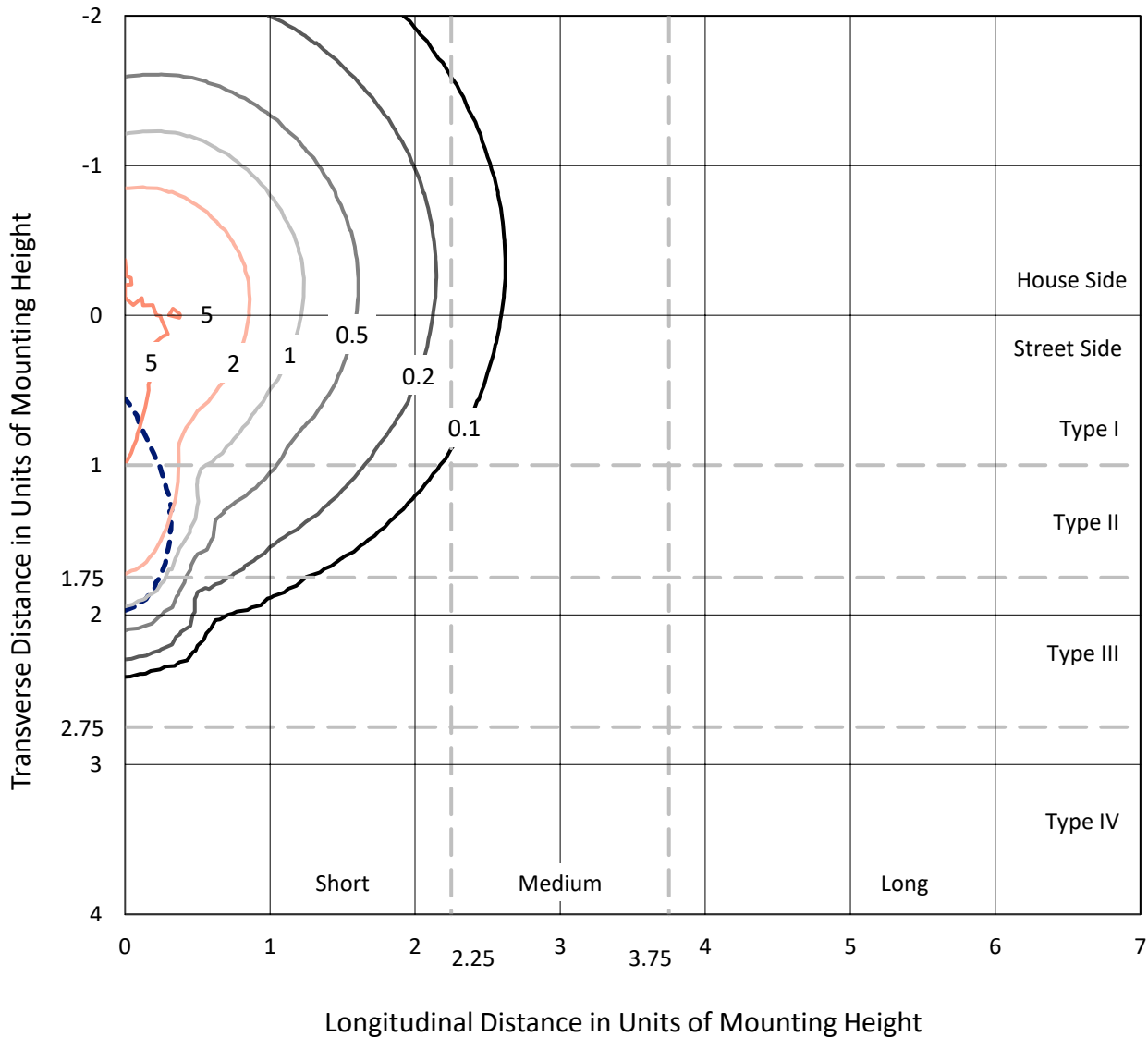
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

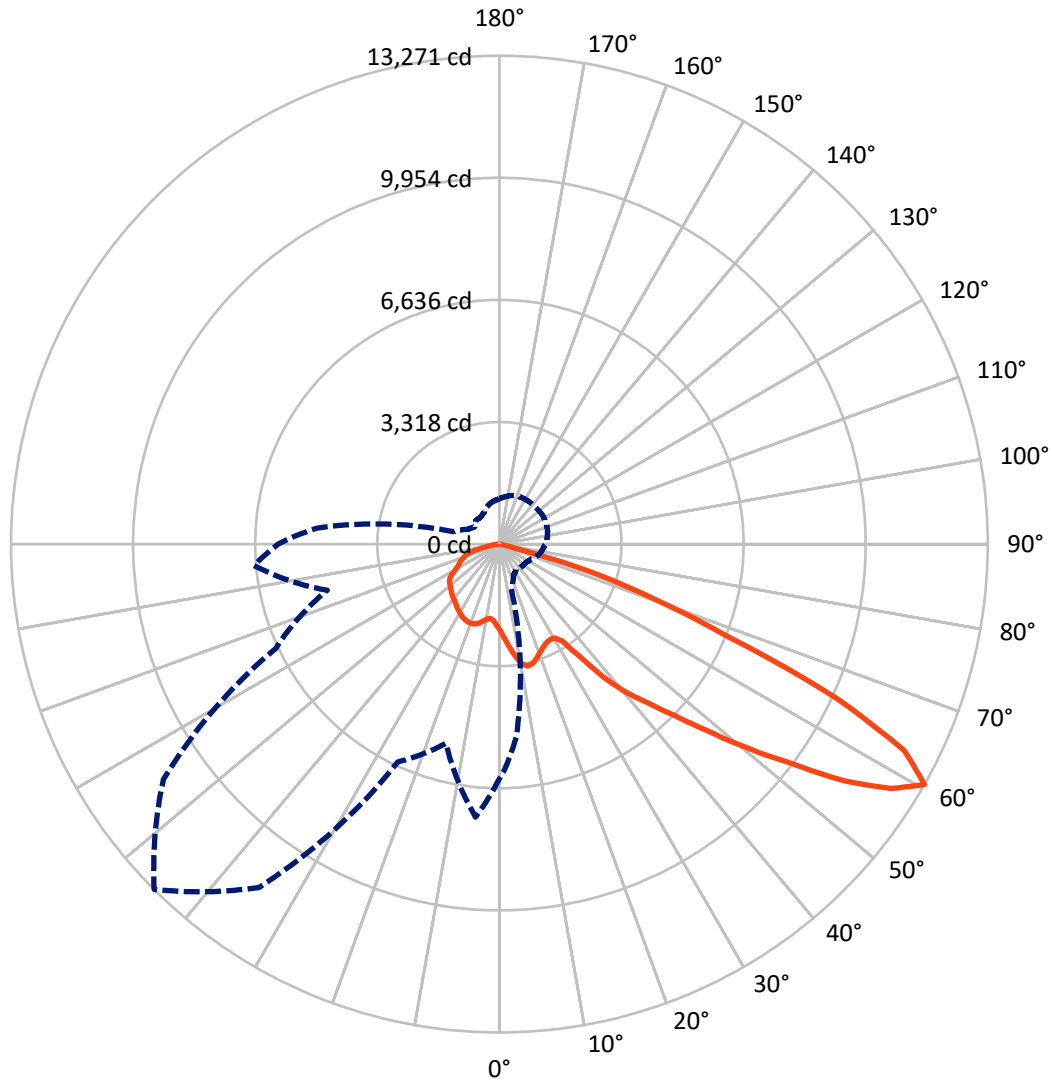
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.1 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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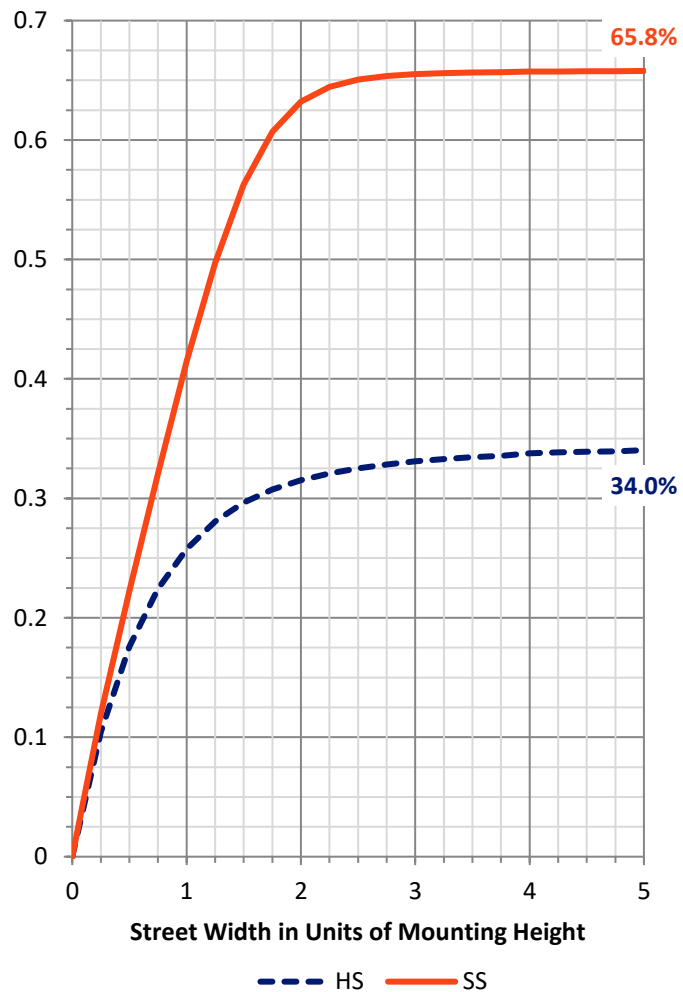
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3974.3	0.0	3974.3
	% Fixture	34.2	0.0	34.2
Street Side	Lumens	7643.3	0.0	7643.3
	% Fixture	65.8	0.0	65.8
Total	Lumens	11617.6	0.0	11617.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.9	2.0
10°-20°	734.3	6.3
20°-30°	1195.8	10.3
30°-40°	1679.9	14.5
40°-50°	2298.8	19.8
50°-60°	2949.2	25.4
60°-70°	1985.9	17.1
70°-80°	496.5	4.3
80°-90°	48.4	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°	11617.6	100.0
0°-180°	11617.6	100.0

Coefficient of Utilization



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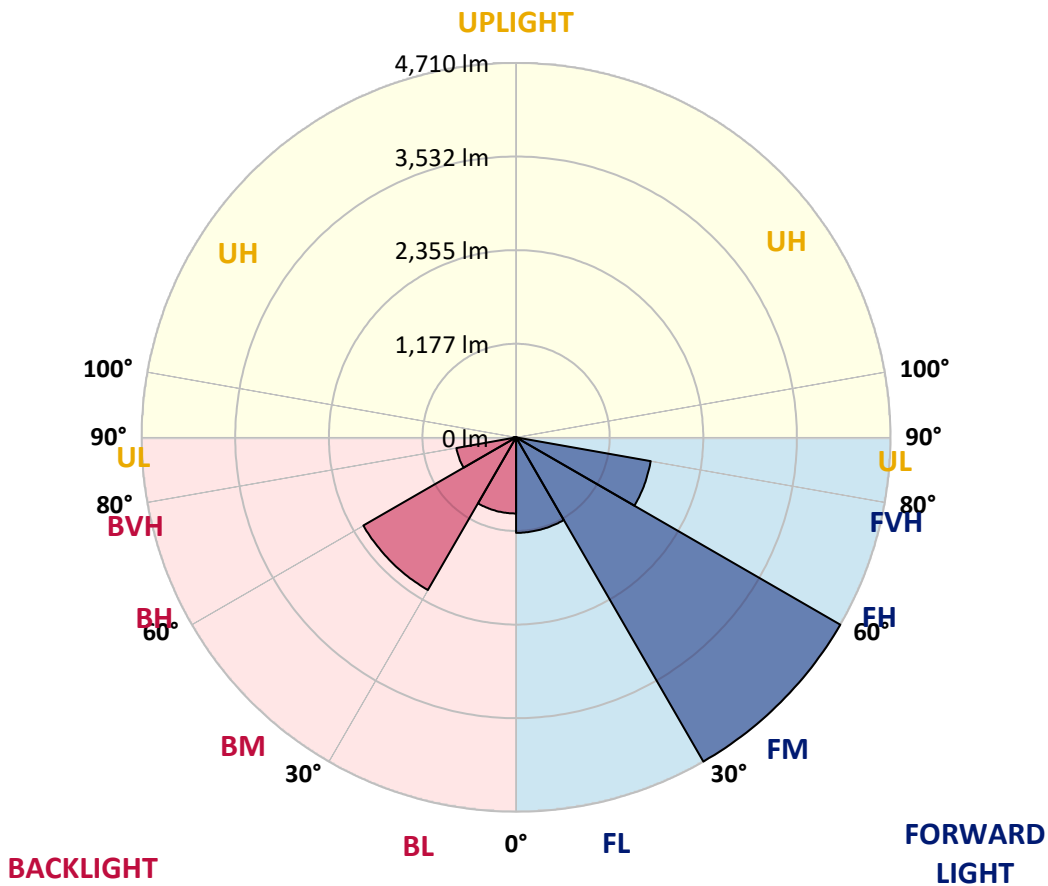
CATALOG NUMBER: GWS-SA2E-750-U-SLL-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1201.0	10.3			
FM (30°-60°)	4709.9	40.5			
FH (60°-80°)	1719.9	14.8			G1/1800
FVH (80°-90°)	12.6	0.1			G1/100
BL (0°-30°)	958.0	8.2	B2/1000		
BM (30°-60°)	2218.0	19.1	B2/2500		
BH (60°-80°)	762.4	6.6	B2/1000		G2/1000
BVH (80°-90°)	35.8	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°	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1
2.5°	2479.0	2473.7	2468.3	2426.6	2415.9	2385.9	2364.5	2337.8	2299.3	2277.9	2259.7
5°	2634.2	2625.6	2596.7	2511.1	2455.5	2394.5	2344.2	2288.6	2229.7	2191.2	2161.3
7.5°	2780.7	2778.6	2729.4	2588.2	2498.3	2410.6	2342.1	2260.8	2176.2	2118.5	2079.9
10°	2916.6	2900.6	2841.7	2657.7	2540.0	2439.4	2365.6	2275.7	2177.3	2099.2	2047.8
12.5°	3036.5	3016.1	2934.8	2721.9	2576.4	2452.3	2372.0	2298.2	2232.9	2167.7	2108.8
15°	3134.9	3110.3	3027.9	2781.8	2608.5	2444.8	2332.4	2274.7	2297.1	2326.0	2260.8
17.5°	3226.9	3201.2	3100.7	2825.7	2618.1	2398.8	2235.1	2210.5	2323.9	2455.5	2425.5
20°	3303.9	3275.1	3158.4	2847.1	2601.0	2311.0	2108.8	2151.6	2301.4	2458.7	2506.8
22.5°	3387.4	3363.9	3223.7	2878.1	2579.6	2190.1	2002.9	2107.8	2262.9	2400.9	2473.7
25°	3521.1	3492.3	3325.3	2932.7	2568.9	2076.7	1926.9	2065.0	2209.4	2334.6	2391.3
27.5°	3714.8	3661.3	3464.4	3027.9	2580.7	1969.7	1878.8	2012.5	2147.3	2254.3	2300.3
30°	3925.6	3861.4	3618.5	3126.3	2597.8	1904.5	1853.1	1952.6	2052.1	2159.1	2209.4
32.5°	4174.9	4118.2	3783.3	3200.2	2561.4	1874.5	1833.9	1887.4	1966.5	2052.1	2093.9
35°	4472.3	4370.7	3963.0	3260.1	2443.7	1830.7	1816.7	1815.7	1857.4	1940.9	1987.9
37.5°	4792.2	4683.1	4184.5	3324.3	2260.8	1761.1	1776.1	1731.1	1769.7	1836.0	1889.5
40°	5054.3	4939.9	4408.1	3412.0	2031.8	1652.0	1686.2	1638.1	1661.6	1730.1	1790.0
42.5°	5311.1	5189.2	4616.7	3511.5	1810.3	1545.0	1562.1	1543.9	1551.4	1623.1	1706.5
45°	5648.2	5511.2	4873.5	3582.1	1611.3	1460.5	1444.4	1413.4	1453.0	1546.0	1634.9
47.5°	6210.9	6047.2	5294.0	3628.1	1466.9	1412.3	1338.5	1320.3	1369.5	1473.3	1565.3
50°	6868.9	6727.7	5965.9	3626.0	1358.8	1371.7	1235.8	1219.7	1301.0	1405.9	1503.3
52.5°	7408.2	7264.8	6540.5	3519.0	1270.0	1285.0	1175.9	1130.9	1242.2	1339.6	1436.9
55°	7843.7	7682.1	6804.8	3071.8	1157.7	1147.0	1110.6	1028.2	1168.4	1273.2	1364.2
57.5°	7609.3	7416.8	6484.8	2335.7	1042.1	974.7	998.2	937.3	1067.8	1199.4	1287.1
60°	6380.0	6206.7	5268.3	1243.3	916.9	814.2	863.4	873.1	957.6	1110.6	1200.5
62.5°	4382.4	4256.2	3570.4	754.3	723.3	653.7	730.8	800.3	863.4	992.9	1071.0
65°	2144.1	2106.7	1785.7	483.6	506.1	528.5	605.6	690.1	783.2	896.6	979.0
67.5°	590.6	594.9	541.4	377.7	399.1	461.1	522.1	589.5	682.6	787.5	870.9
70°	260.0	264.3	272.8	291.0	331.7	388.4	451.5	521.1	606.7	694.4	774.6
72.5°	180.8	185.1	197.9	221.5	257.9	311.3	371.3	437.6	526.4	600.2	666.6
75°	111.3	114.5	126.3	146.6	171.2	211.8	270.7	331.7	409.8	477.2	536.0
77.5°	58.8	56.7	64.2	78.1	99.5	120.9	160.5	199.0	254.6	309.2	358.4
80°	32.1	31.0	35.3	42.8	49.2	66.3	93.1	118.8	150.9	181.9	208.6
82.5°	13.9	12.8	13.9	18.2	22.5	32.1	47.1	65.3	83.5	104.9	122.0
85°	0.0	0.0	0.0	1.1	5.3	8.6	16.0	23.5	34.2	47.1	57.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	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°	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1
2.5°	2249.0	2222.2	2220.1	2198.7	2200.8	2201.9	2180.5	2172.0	2179.4	2188.0	2183.7
5°	2150.6	2122.7	2111.0	2090.6	2088.5	2078.9	2070.3	2059.6	2067.1	2074.6	2078.9
7.5°	2065.0	2046.8	2039.3	2033.9	2036.1	2031.8	2014.7	2005.0	2004.0	2007.2	2011.5
10°	2037.1	2022.2	2031.8	2046.8	2057.5	2065.0	2046.8	2030.7	2015.7	2009.3	2009.3
12.5°	2097.1	2077.8	2097.1	2113.1	2134.5	2139.9	2119.5	2102.4	2097.1	2103.5	2116.3
15°	2229.7	2184.8	2183.7	2193.4	2210.5	2219.0	2199.8	2191.2	2191.2	2231.9	2264.0
17.5°	2362.4	2288.6	2257.6	2252.2	2262.9	2266.1	2250.1	2242.6	2261.8	2341.0	2400.9
20°	2455.5	2365.6	2298.2	2285.4	2288.6	2289.6	2276.8	2271.5	2299.3	2395.6	2445.9
22.5°	2445.9	2379.5	2297.1	2281.1	2286.4	2284.3	2272.5	2270.4	2292.9	2376.3	2399.9
25°	2379.5	2328.2	2258.6	2247.9	2256.5	2255.4	2243.6	2238.3	2247.9	2303.6	2305.7
27.5°	2303.6	2258.6	2198.7	2195.5	2209.4	2216.9	2196.6	2180.5	2177.3	2214.8	2206.2
30°	2212.6	2179.4	2131.3	2133.4	2159.1	2163.4	2138.8	2115.3	2108.8	2129.2	2117.4
32.5°	2104.6	2093.9	2068.2	2073.5	2098.1	2106.7	2081.0	2056.4	2048.9	2055.3	2030.7
35°	2012.5	2008.3	2010.4	2020.0	2041.4	2047.8	2026.4	2007.2	1996.5	1974.0	1941.9
37.5°	1917.3	1929.1	1960.1	1978.3	1990.1	1987.9	1976.2	1962.3	1945.1	1903.4	1863.8
40°	1828.5	1858.5	1914.1	1934.4	1938.7	1939.8	1931.2	1919.5	1898.1	1842.4	1797.5
42.5°	1760.0	1793.2	1867.0	1898.1	1900.2	1902.3	1893.8	1884.1	1854.2	1780.4	1736.5
45°	1688.3	1732.2	1818.9	1856.3	1854.2	1853.1	1845.6	1841.3	1806.0	1720.4	1672.3
47.5°	1627.4	1678.7	1771.8	1803.9	1802.8	1801.8	1796.4	1796.4	1761.1	1668.0	1613.5
50°	1567.4	1626.3	1723.7	1750.4	1752.5	1750.4	1748.3	1751.5	1709.7	1610.2	1556.7
52.5°	1502.2	1568.5	1670.2	1694.8	1707.6	1713.0	1713.0	1705.5	1656.3	1552.5	1493.6
55°	1430.5	1493.6	1611.3	1644.5	1655.2	1664.8	1664.8	1649.8	1603.8	1499.0	1435.8
57.5°	1341.7	1397.3	1490.4	1523.6	1549.3	1555.7	1555.7	1531.1	1493.6	1393.0	1341.7
60°	1245.4	1293.5	1356.7	1392.0	1411.2	1398.4	1408.0	1401.6	1371.7	1278.6	1235.8
62.5°	1117.0	1166.2	1235.8	1272.1	1280.7	1267.9	1280.7	1279.6	1239.0	1155.5	1104.2
65°	1025.0	1073.1	1141.6	1188.7	1202.6	1199.4	1208.0	1195.1	1144.8	1065.7	1016.4
67.5°	915.9	967.2	1046.4	1098.8	1127.7	1130.9	1142.7	1115.9	1064.6	977.9	915.9
70°	812.1	855.9	916.9	966.1	1006.8	1027.1	1029.3	990.8	926.6	854.9	809.9
72.5°	702.9	747.9	821.7	875.2	926.6	950.1	950.1	903.0	833.5	754.3	706.2
75°	570.3	612.0	679.4	737.2	796.0	826.0	824.9	784.3	707.2	632.3	582.0
77.5°	386.2	417.3	460.1	503.9	512.5	536.0	547.8	496.4	453.7	413.0	368.1
80°	224.7	243.9	267.5	292.1	297.4	304.9	285.7	266.4	243.9	217.2	196.9
82.5°	131.6	144.4	156.2	175.5	178.7	180.8	163.7	155.1	137.0	120.9	108.1
85°	64.2	68.5	79.2	88.8	84.5	82.4	74.9	66.3	58.8	52.4	46.0
87.5°	12.8	12.8	19.3	18.2	15.0	12.8	7.5	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°	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1
2.5°	2197.6	2215.8	2238.3	2268.3	2302.5	2338.9	2374.2	2400.9	2427.7	2467.3	2460.8
5°	2085.3	2116.3	2151.6	2197.6	2253.3	2316.4	2387.0	2457.6	2533.6	2597.8	2625.6
7.5°	2020.0	2054.3	2096.0	2155.9	2227.6	2304.6	2404.1	2518.6	2641.7	2726.2	2778.6
10°	2020.0	2063.9	2118.5	2176.2	2239.4	2318.5	2441.6	2585.0	2743.3	2854.6	2915.6
12.5°	2136.6	2180.5	2192.3	2190.1	2225.5	2313.2	2471.5	2654.5	2843.9	2961.6	3036.5
15°	2318.5	2333.5	2244.7	2163.4	2168.7	2274.7	2485.4	2710.1	2930.5	3071.8	3153.1
17.5°	2440.5	2400.9	2242.6	2100.3	2070.3	2209.4	2485.4	2763.6	3022.6	3182.0	3257.9
20°	2450.1	2351.7	2188.0	2039.3	1962.3	2122.7	2468.3	2804.3	3111.4	3287.9	3369.2
22.5°	2365.6	2268.3	2130.2	1986.9	1873.4	2017.9	2440.5	2835.3	3187.3	3387.4	3488.0
25°	2269.3	2188.0	2071.4	1933.4	1812.5	1912.0	2414.8	2887.7	3293.2	3522.2	3623.9
27.5°	2175.2	2106.7	2000.8	1888.4	1778.2	1820.0	2398.8	2964.8	3419.5	3713.7	3801.5
30°	2083.2	2021.1	1924.8	1845.6	1760.0	1760.0	2384.9	3053.6	3586.4	3928.8	4016.5
32.5°	1990.1	1931.2	1853.1	1803.9	1749.3	1736.5	2346.4	3137.0	3758.7	4164.2	4254.0
35°	1903.4	1844.6	1784.6	1764.3	1744.0	1718.3	2251.1	3202.3	3926.6	4439.1	4516.2
37.5°	1822.1	1765.4	1720.4	1715.1	1717.2	1669.1	2101.3	3256.9	4136.3	4720.5	4761.2
40°	1751.5	1688.3	1653.0	1652.0	1662.7	1589.9	1912.0	3335.0	4376.0	4959.1	4942.0
42.5°	1688.3	1622.0	1579.2	1588.8	1582.4	1510.7	1726.9	3406.7	4584.6	5182.7	5148.5
45°	1626.3	1562.1	1502.2	1516.1	1508.6	1461.5	1569.6	3459.1	4815.8	5451.3	5455.6
47.5°	1566.4	1503.3	1443.3	1426.2	1425.1	1446.5	1448.7	3476.2	5192.4	5883.5	5786.2
50°	1510.7	1447.6	1385.6	1327.8	1350.3	1416.6	1358.8	3463.4	5756.2	6360.7	6089.0
52.5°	1453.0	1393.0	1324.6	1220.8	1279.6	1344.9	1278.6	3417.4	6100.7	6782.3	6619.7
55°	1386.6	1329.9	1236.8	1110.6	1182.3	1196.2	1196.2	2972.3	6247.3	7199.6	7300.1
57.5°	1297.8	1222.9	1075.3	973.6	1037.8	984.3	1108.4	2079.9	6005.5	7068.0	7458.5
60°	1197.3	1117.0	960.8	888.0	907.3	813.1	944.7	1304.2	4977.3	6014.1	6690.3
62.5°	1064.6	990.8	861.3	804.6	765.0	663.4	760.7	824.9	3412.0	4465.9	4927.0
65°	975.8	894.5	778.9	704.0	622.7	533.9	505.0	541.4	1834.9	2499.4	2810.7
67.5°	870.9	790.7	681.5	587.4	522.1	457.9	407.6	394.8	629.1	832.4	900.9
70°	771.4	694.4	603.4	515.7	450.4	387.3	338.1	302.8	291.0	288.9	284.6
72.5°	669.8	598.1	522.1	440.8	369.1	311.3	267.5	226.8	209.7	204.4	199.0
75°	548.9	492.2	416.2	328.5	270.7	217.2	183.0	156.2	141.2	135.9	129.5
77.5°	353.1	327.4	261.1	211.8	163.7	129.5	111.3	94.2	84.5	82.4	77.0
80°	188.3	175.5	144.4	122.0	97.4	79.2	69.5	59.9	54.6	52.4	50.3
82.5°	104.9	95.2	80.2	70.6	56.7	48.1	42.8	38.5	35.3	34.2	33.2
85°	47.1	40.7	32.1	30.0	26.7	24.6	23.5	21.4	20.3	19.3	18.2
87.5°	2.1	4.3	5.3	4.3	4.3	6.4	7.5	7.5	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: P633365

CATALOG NUMBER: GWS-SA2E-750-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1
2.5°	2500.4	2532.5	2535.7	2546.4	2532.5	2529.3	2506.8	2494.0	2482.2	2479.0
5°	2695.2	2759.3	2785.0	2803.2	2786.1	2777.5	2728.3	2677.0	2648.1	2634.2
7.5°	2895.2	2991.5	3041.8	3064.3	3066.4	3027.9	2943.4	2847.1	2798.9	2780.7
10°	3073.9	3192.7	3259.0	3301.8	3286.8	3239.7	3124.2	2993.7	2932.7	2916.6
12.5°	3206.6	3320.0	3371.3	3399.2	3398.1	3372.4	3263.3	3122.1	3052.5	3036.5
15°	3292.2	3359.6	3362.8	3369.2	3387.4	3421.6	3364.9	3234.4	3157.4	3134.9
17.5°	3359.6	3332.8	3282.5	3265.4	3306.1	3401.3	3435.5	3329.6	3246.2	3226.9
20°	3402.4	3267.6	3178.8	3145.6	3192.7	3347.8	3478.3	3415.2	3328.6	3303.9
22.5°	3435.5	3206.6	3063.2	3040.7	3090.0	3290.0	3522.2	3516.9	3421.6	3387.4
25°	3488.0	3165.9	2981.9	2965.8	3011.9	3262.2	3581.1	3654.9	3570.4	3521.1
27.5°	3570.4	3161.6	2940.2	2934.8	2997.9	3286.8	3665.6	3857.1	3751.2	3714.8
30°	3684.8	3202.3	2949.8	2960.5	3037.5	3375.6	3797.2	4088.2	3982.3	3925.6
32.5°	3849.6	3311.4	3096.4	3142.4	3199.1	3517.9	3989.8	4338.6	4258.3	4174.9
35°	4066.8	3611.0	3529.7	3725.5	3672.0	3829.3	4221.9	4642.4	4545.1	4472.3
37.5°	4356.8	4225.2	4300.0	4569.7	4440.2	4417.7	4505.5	4918.5	4865.0	4792.2
40°	4763.3	4790.1	4928.1	5282.2	5095.0	4950.6	4853.2	5126.0	5144.2	5054.3
42.5°	5033.0	5156.0	5488.7	5891.0	5633.2	5287.6	5144.2	5391.4	5392.4	5311.1
45°	5133.5	5455.6	6151.0	6614.3	6183.1	5480.2	5304.7	5751.9	5741.2	5648.2
47.5°	5097.1	5708.1	6839.0	7547.3	6889.3	5617.1	5282.2	6265.5	6352.2	6210.9
50°	5021.2	5961.6	7642.5	8690.0	7755.9	5762.6	5248.0	6834.7	6978.1	6868.9
52.5°	5098.2	6244.1	8592.6	9871.2	8843.0	5994.8	5479.1	7565.5	7539.8	7408.2
55°	5342.2	6577.9	9747.1	11355.2	10037.0	6387.5	6072.9	8262.0	8000.9	7843.7
57.5°	5330.4	6816.5	10759.2	12528.9	11075.9	6709.5	6279.4	8335.8	7808.3	7609.3
60°	4838.2	6707.4	11144.4	13271.4	11389.4	6531.9	5600.0	7445.6	6588.6	6380.0
62.5°	3611.0	5952.0	10397.6	12341.6	10502.4	5641.7	4211.2	5344.3	4734.4	4382.4
65°	2310.0	4656.3	8741.3	9998.5	8656.8	4315.0	2507.9	2865.3	2244.7	2144.1
67.5°	983.3	3286.8	6795.1	6682.8	6476.3	2795.7	968.3	806.7	601.3	590.6
70°	325.3	2236.2	4188.8	4457.3	3867.8	1925.9	319.9	270.7	269.6	260.0
72.5°	212.9	1200.5	2358.1	2625.6	2488.7	1108.4	193.7	180.8	185.1	180.8
75°	127.3	261.1	396.9	515.7	396.9	186.2	116.6	114.5	116.6	111.3
77.5°	74.9	72.8	70.6	70.6	69.5	64.2	58.8	56.7	57.8	58.8
80°	48.1	46.0	43.9	42.8	37.4	35.3	33.2	31.0	31.0	32.1
82.5°	31.0	28.9	26.7	23.5	19.3	16.0	15.0	12.8	12.8	13.9
85°	16.0	12.8	9.6	7.5	4.3	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)