

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: P633369

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633369
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-SA2E-750-U-SLR-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT 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: 11677.5 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

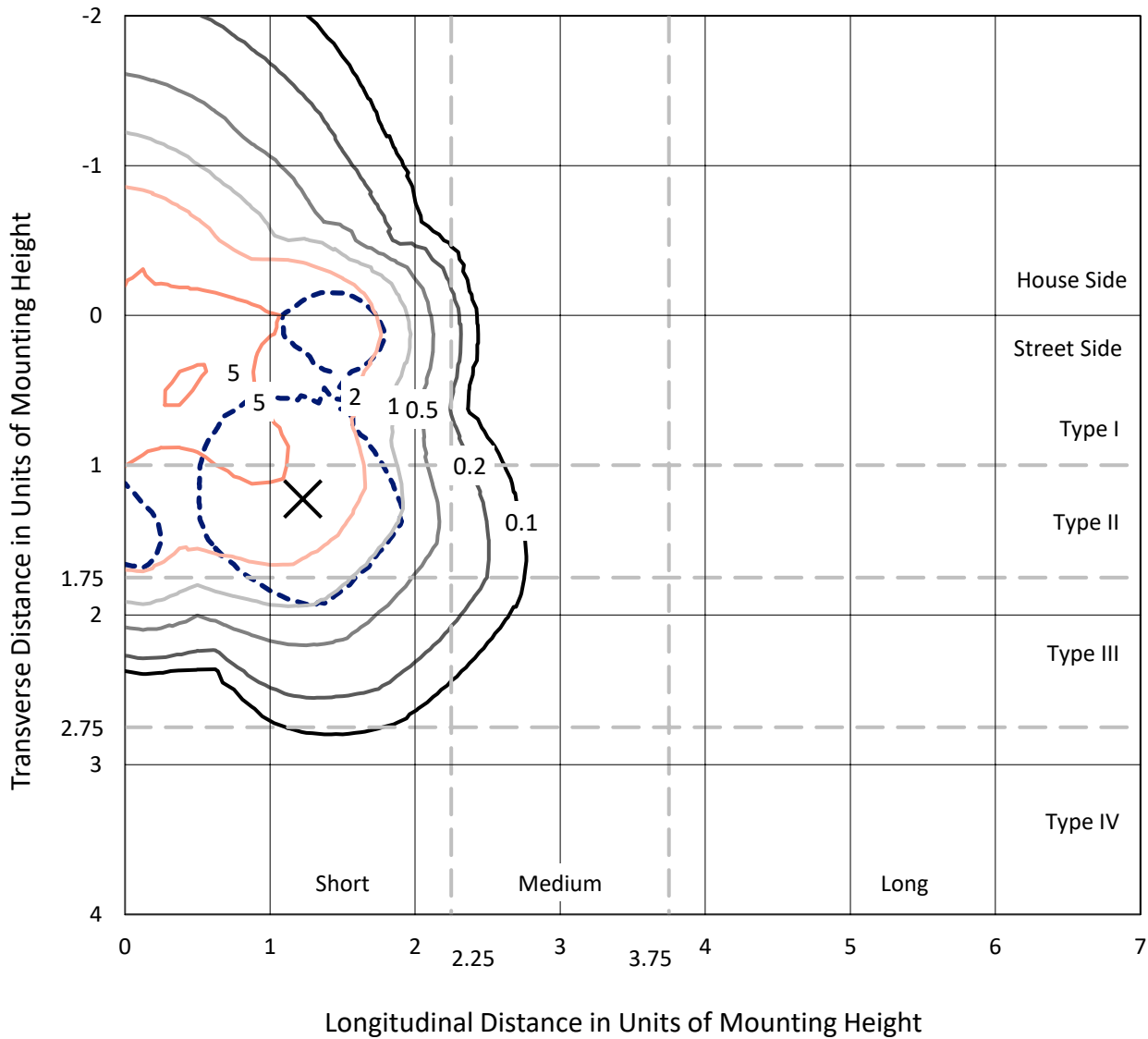
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P633369
 CATALOG NUMBER: GWS-SA2E-750-U-SLR-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

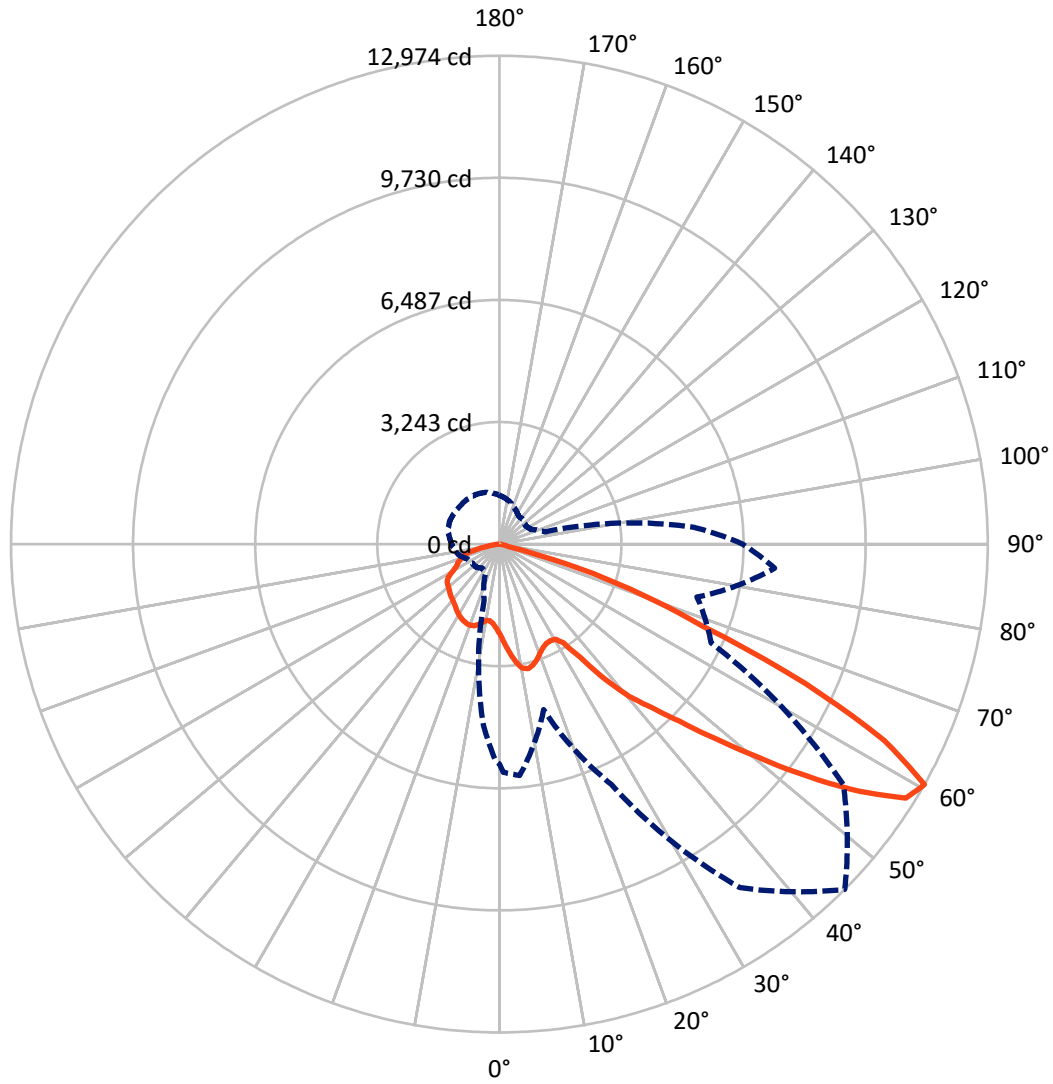
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8 fc
 Type III - Short - N/A

REPORT NUMBER: P633369
CATALOG NUMBER: GWS-SA2E-750-U-SLR-W-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P633369

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

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4093.4	0.0	4093.4
	% Fixture	35.1	0.0	35.1
Street Side	Lumens	7584.1	0.0	7584.1
	% Fixture	64.9	0.0	64.9
Total	Lumens	11677.5	0.0	11677.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.1	2.0
10°-20°	739.6	6.3
20°-30°	1201.4	10.3
30°-40°	1694.3	14.5
40°-50°	2341.5	20.1
50°-60°	3014.2	25.8
60°-70°	1909.9	16.4
70°-80°	490.1	4.2
80°-90°	52.4	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°	11677.5	100.0
0°-180°	11677.5	100.0

Coefficient of Utilization



REPORT NUMBER: P633369

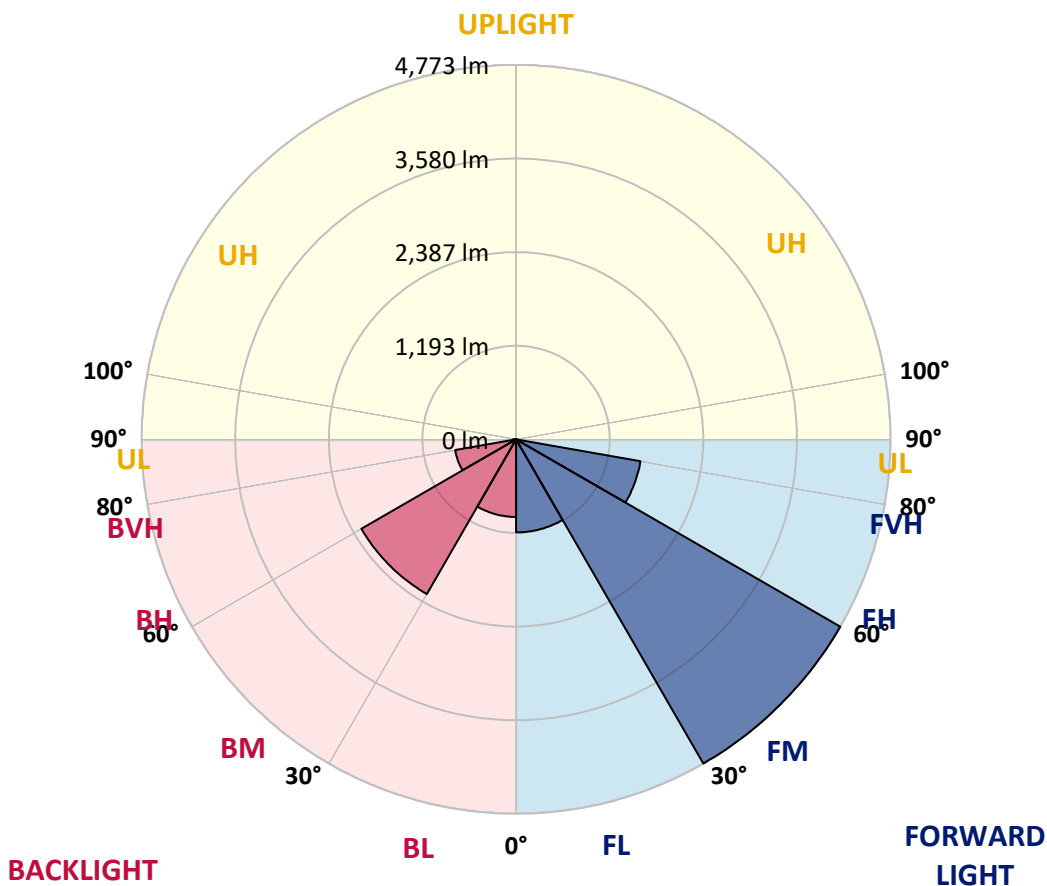
CATALOG NUMBER: GWS-SA2E-750-U-SLR-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1185.7	10.2			
FM (30°-60°)	4773.1	40.9			
FH (60°-80°)	1611.1	13.8			G1/1800
FVH (80°-90°)	14.2	0.1			G1/100
BL (0°-30°)	989.4	8.5	B2/1000		
BM (30°-60°)	2277.0	19.5	B2/2500		
BH (60°-80°)	788.8	6.8	B2/1000		G2/1000
BVH (80°-90°)	38.2	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





REPORT NUMBER: P633369

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

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2398.9	2398.9	2398.9	2398.9	2398.9	2398.9	2398.9	2398.9	2398.9	2398.9	2398.9
2.5°	2509.1	2526.2	2536.9	2557.3	2593.6	2614.0	2636.4	2611.8	2618.2	2615.0	2575.4
5°	2657.8	2678.2	2706.0	2765.9	2833.3	2870.8	2906.1	2900.7	2867.6	2811.9	2772.3
7.5°	2796.9	2820.5	2868.6	2966.0	3065.5	3123.3	3166.1	3138.3	3110.4	3022.7	2923.2
10°	2906.1	2920.0	2985.3	3115.8	3231.3	3296.6	3349.0	3342.6	3304.1	3205.7	3071.9
12.5°	3008.8	3018.4	3089.0	3219.6	3323.4	3352.3	3395.1	3409.0	3396.1	3322.3	3190.7
15°	3119.0	3137.2	3202.5	3302.0	3349.0	3319.1	3334.1	3372.6	3409.0	3409.0	3288.1
17.5°	3221.7	3237.8	3304.1	3346.9	3302.0	3222.8	3227.1	3276.3	3363.0	3453.9	3376.9
20°	3312.7	3327.6	3392.9	3352.3	3209.9	3094.4	3091.2	3151.1	3291.3	3482.8	3472.1
22.5°	3412.2	3433.6	3488.1	3356.5	3124.3	2977.8	2976.7	3038.8	3228.1	3511.7	3581.2
25°	3553.4	3586.6	3614.4	3394.0	3078.3	2901.8	2915.7	2974.6	3207.8	3558.8	3742.8
27.5°	3763.1	3789.9	3787.7	3472.1	3076.2	2870.8	2899.7	2968.1	3244.2	3642.2	3912.9
30°	3990.0	4003.9	3981.4	3581.2	3125.4	2890.0	2932.8	3014.1	3336.2	3780.2	4163.3
32.5°	4241.4	4258.5	4215.7	3744.9	3239.9	3032.3	3126.5	3166.1	3465.7	3979.3	4428.7
35°	4530.3	4563.5	4474.7	3961.1	3577.0	3551.3	3688.2	3636.9	3740.7	4214.7	4712.2
37.5°	4834.2	4835.3	4707.9	4281.0	4238.2	4282.1	4556.0	4395.5	4323.8	4476.8	5001.1
40°	5092.0	5085.6	4889.8	4712.2	4813.9	4988.3	5318.9	5072.8	4884.5	4828.8	5240.8
42.5°	5349.9	5326.4	5128.4	4986.1	5210.8	5569.3	5942.7	5640.9	5244.0	5148.8	5477.2
45°	5679.5	5672.0	5433.4	5095.3	5569.3	6219.8	6715.2	6226.2	5456.9	5334.9	5871.0
47.5°	6211.2	6174.9	5730.8	5086.7	5905.2	7086.5	7712.4	6963.4	5605.6	5339.2	6506.6
50°	6731.3	6686.3	6086.1	5085.6	6251.9	7985.3	8889.4	7859.0	5757.6	5364.9	7152.8
52.5°	7256.6	7256.6	6669.2	5206.5	6615.7	8988.9	10249.4	8975.0	6016.5	5700.9	7947.8
55°	7569.1	7652.5	7325.1	5410.9	7041.6	10170.2	11594.3	10179.8	6416.7	6307.5	8681.8
57.5°	7172.1	7328.3	7281.2	5268.6	7293.0	11037.9	12734.9	11093.6	6614.6	6379.2	8571.6
60°	5844.2	6061.5	6169.5	4549.6	7044.8	11138.5	12973.5	11153.5	6205.9	5432.3	7342.2
62.5°	3885.1	4063.8	4228.6	3250.6	6098.9	10020.4	11474.5	10023.6	5183.0	4054.2	5086.7
65°	1905.6	2038.3	2215.9	1921.7	4764.6	8372.6	8946.1	8099.8	3749.2	2269.4	2594.7
67.5°	498.6	536.1	560.7	745.8	3413.2	6015.4	5834.6	5924.5	2408.5	741.5	678.4
70°	258.9	261.1	260.0	308.2	2306.9	3823.0	4021.0	3720.3	1680.9	310.3	267.5
72.5°	185.1	186.2	183.0	207.6	1113.9	2190.3	2269.4	2244.8	880.6	184.0	183.0
75°	120.9	122.0	119.8	122.0	168.0	249.3	230.0	241.8	146.6	116.6	116.6
77.5°	71.7	72.8	71.7	73.8	71.7	71.7	66.3	66.3	63.1	63.1	64.2
80°	48.1	48.1	47.1	49.2	44.9	44.9	42.8	41.7	38.5	37.4	37.4
82.5°	28.9	30.0	28.9	28.9	26.7	26.7	24.6	23.5	20.3	20.3	19.3
85°	15.0	15.0	13.9	13.9	11.8	10.7	8.6	8.6	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



REPORT NUMBER: P633369

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2398.9	2398.9	2398.9	2398.9	2398.9	2398.9	2398.9	2398.9	2398.9	2398.9	2398.9
2.5°	2564.7	2543.3	2511.2	2480.2	2451.3	2421.4	2387.1	2351.8	2321.9	2290.8	2274.8
5°	2719.9	2676.0	2592.6	2518.7	2452.4	2397.8	2339.0	2288.7	2241.6	2203.1	2183.8
7.5°	2860.1	2791.6	2665.3	2548.7	2458.8	2383.9	2302.6	2227.7	2164.6	2117.5	2099.3
10°	2989.5	2908.2	2742.4	2594.7	2489.8	2406.4	2306.9	2205.2	2121.8	2059.7	2044.7
12.5°	3094.4	3001.3	2803.4	2632.2	2508.0	2418.2	2330.4	2242.7	2160.3	2080.0	2067.2
15°	3187.5	3077.3	2849.4	2655.7	2501.6	2387.1	2313.3	2302.6	2302.6	2211.7	2186.0
17.5°	3267.7	3146.8	2886.8	2666.4	2461.0	2295.1	2250.2	2343.3	2448.1	2382.9	2325.1
20°	3359.7	3213.2	2917.8	2666.4	2386.1	2178.5	2174.2	2332.6	2487.7	2488.8	2427.8
22.5°	3452.8	3290.2	2954.2	2656.8	2283.3	2043.7	2122.8	2289.8	2427.8	2486.6	2444.9
25°	3603.7	3397.2	3012.0	2649.3	2163.5	1951.6	2076.8	2233.1	2349.7	2411.7	2385.0
27.5°	3795.2	3538.4	3099.7	2661.0	2044.7	1897.1	2027.6	2159.2	2265.2	2319.7	2300.5
30°	4009.2	3701.1	3193.9	2681.4	1959.1	1869.3	1968.8	2074.7	2168.9	2223.4	2214.9
32.5°	4282.1	3877.6	3275.2	2653.6	1911.0	1855.3	1906.7	1982.7	2073.6	2107.9	2115.4
35°	4608.4	4072.4	3337.3	2544.4	1867.1	1840.4	1839.3	1886.4	1950.6	2005.1	2010.5
37.5°	4909.1	4300.3	3405.8	2357.2	1787.9	1802.9	1760.1	1787.9	1851.1	1905.6	1927.0
40°	5206.5	4531.4	3501.0	2118.6	1684.2	1719.5	1669.2	1688.4	1738.7	1810.4	1844.6
42.5°	5495.4	4740.0	3601.6	1874.6	1580.4	1602.8	1565.4	1584.6	1637.1	1727.0	1765.5
45°	5810.0	5022.5	3679.7	1644.6	1490.5	1480.9	1450.9	1478.7	1557.9	1656.3	1702.3
47.5°	6404.9	5467.6	3731.0	1491.6	1442.3	1372.8	1338.5	1398.5	1488.3	1587.9	1643.5
50°	7131.4	6111.7	3716.0	1394.2	1400.6	1261.5	1249.7	1328.9	1425.2	1529.0	1590.0
52.5°	7707.1	6744.1	3545.9	1301.1	1319.3	1190.9	1156.7	1272.2	1364.2	1470.2	1533.3
55°	8146.8	6957.0	3023.8	1190.9	1186.6	1139.5	1067.8	1213.4	1303.2	1401.7	1470.2
57.5°	7788.4	6483.0	2241.6	1039.0	1013.3	1037.9	968.3	1113.9	1228.3	1325.7	1386.7
60°	6463.8	5169.1	1248.7	920.2	847.4	907.3	896.6	1009.0	1147.0	1249.7	1302.2
62.5°	4388.0	3442.1	740.4	727.6	686.9	772.5	829.2	903.1	1039.0	1122.4	1171.6
65°	2187.0	1672.4	492.2	544.6	550.0	635.6	742.6	823.9	937.3	1022.9	1072.1
67.5°	634.5	520.0	374.5	416.2	474.0	542.5	628.1	724.4	834.6	936.2	994.0
70°	273.9	277.1	297.5	346.7	403.4	474.0	559.6	653.8	746.8	825.0	868.8
72.5°	193.7	201.2	223.6	273.9	327.4	394.8	480.4	571.4	638.8	718.0	764.0
75°	124.1	129.5	147.7	186.2	225.8	291.0	372.4	455.8	525.4	582.1	625.9
77.5°	68.5	69.5	84.5	107.0	133.7	175.5	235.4	300.7	352.0	384.1	423.7
80°	39.6	39.6	47.1	61.0	77.0	102.7	135.9	168.0	199.0	219.3	238.6
82.5°	21.4	21.4	24.6	33.2	41.7	56.7	76.0	92.0	111.3	122.0	134.8
85°	6.4	6.4	8.6	11.8	15.0	21.4	30.0	38.5	47.1	54.6	62.1
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



REPORT NUMBER: P633369

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

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2398.9	2398.9	2398.9	2398.9	2398.9	2398.9	2398.9	2398.9	2398.9	2398.9	2398.9
2.5°	2271.6	2256.6	2248.0	2237.3	2240.5	2230.9	2225.6	2228.8	2209.5	2228.8	2248.0
5°	2176.3	2154.9	2137.8	2123.9	2117.5	2104.7	2097.2	2097.2	2085.4	2104.7	2128.2
7.5°	2092.9	2075.8	2067.2	2058.6	2049.0	2037.2	2024.4	2020.1	2012.6	2033.0	2053.3
10°	2037.2	2039.4	2044.7	2056.5	2054.4	2046.9	2027.6	2016.9	2016.9	2040.5	2071.5
12.5°	2062.9	2085.4	2098.2	2119.6	2123.9	2117.5	2098.2	2089.7	2111.1	2146.4	2197.7
15°	2162.4	2177.4	2188.1	2205.2	2204.2	2198.8	2183.8	2190.3	2260.9	2329.4	2375.4
17.5°	2270.5	2253.4	2251.2	2261.9	2265.2	2258.7	2250.2	2279.1	2395.7	2459.9	2483.4
20°	2348.6	2289.8	2276.9	2281.2	2289.8	2286.6	2286.6	2333.6	2454.5	2484.5	2454.5
22.5°	2372.2	2288.7	2269.4	2270.5	2282.3	2283.3	2288.7	2337.9	2408.5	2409.6	2363.6
25°	2334.7	2254.5	2240.5	2242.7	2256.6	2255.5	2257.7	2285.5	2316.5	2303.7	2269.4
27.5°	2264.1	2194.5	2190.3	2202.0	2220.2	2210.6	2204.2	2211.7	2226.6	2210.6	2180.6
30°	2183.8	2125.0	2127.1	2149.6	2168.9	2152.8	2136.8	2141.0	2142.1	2125.0	2090.7
32.5°	2099.3	2055.4	2062.9	2086.5	2108.9	2091.8	2074.7	2072.6	2052.2	2031.9	1998.7
35°	2014.8	1997.7	2007.3	2026.5	2045.8	2031.9	2021.2	2014.8	1970.9	1940.9	1913.1
37.5°	1937.7	1950.6	1967.7	1979.5	1985.9	1984.8	1978.4	1963.4	1905.6	1870.3	1834.0
40°	1869.3	1908.8	1927.0	1932.4	1942.0	1939.9	1938.8	1917.4	1841.4	1804.0	1762.3
42.5°	1807.2	1862.8	1893.9	1899.2	1904.6	1905.6	1902.4	1871.4	1784.7	1740.9	1701.3
45°	1747.3	1820.0	1859.6	1854.3	1861.8	1861.8	1865.0	1824.3	1729.1	1684.2	1642.4
47.5°	1694.9	1780.5	1816.8	1810.4	1814.7	1817.9	1821.1	1774.0	1668.1	1625.3	1582.5
50°	1646.7	1737.7	1768.7	1770.8	1770.8	1778.3	1777.2	1731.2	1616.7	1570.7	1527.9
52.5°	1595.3	1693.8	1727.0	1740.9	1745.1	1748.4	1733.4	1679.9	1564.3	1508.7	1469.1
55°	1535.4	1648.8	1678.8	1697.0	1705.6	1703.4	1683.1	1628.5	1510.8	1455.2	1410.2
57.5°	1444.5	1552.5	1595.3	1603.9	1617.8	1609.3	1585.7	1539.7	1425.2	1369.6	1323.6
60°	1345.0	1423.1	1457.3	1464.8	1454.1	1457.3	1454.1	1410.2	1310.7	1266.9	1219.8
62.5°	1214.4	1284.0	1320.4	1330.0	1311.8	1323.6	1319.3	1264.7	1165.2	1119.2	1077.5
65°	1116.0	1192.0	1234.8	1240.1	1234.8	1240.1	1225.1	1158.8	1064.6	1017.6	974.8
67.5°	1039.0	1117.1	1162.0	1177.0	1171.6	1170.6	1147.0	1070.0	972.6	921.3	866.7
70°	906.3	974.8	1032.5	1068.9	1068.9	1048.6	1003.6	932.0	853.8	810.0	767.2
72.5°	802.5	889.2	945.9	983.3	990.8	979.0	915.9	839.9	750.1	706.2	661.2
75°	661.2	745.8	806.8	856.0	865.6	852.8	780.0	705.1	621.7	578.9	533.9
77.5°	441.9	492.2	541.4	586.4	576.7	585.3	536.1	479.4	428.0	395.9	375.6
80°	249.3	282.5	297.5	322.1	322.1	322.1	290.0	263.2	234.3	216.1	195.8
82.5°	141.2	162.6	169.1	189.4	194.7	195.8	174.4	157.3	139.1	129.5	115.6
85°	65.3	77.0	78.1	89.9	94.2	102.7	93.1	81.3	70.6	66.3	57.8
87.5°	2.1	6.4	8.6	16.0	21.4	24.6	26.7	26.7	22.5	20.3	17.1
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: P633369
 CATALOG NUMBER: GWS-SA2E-750-U-SLR-W-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2398.9	2398.9	2398.9	2398.9	2398.9	2398.9	2398.9	2398.9	2398.9	2398.9
2.5°	2271.6	2297.3	2327.2	2348.6	2387.1	2419.2	2452.4	2488.8	2515.5	2509.1
5°	2157.1	2199.9	2254.5	2304.7	2376.4	2449.2	2529.4	2611.8	2660.0	2657.8
7.5°	2092.9	2153.9	2220.2	2287.6	2372.2	2477.0	2600.1	2728.5	2793.7	2796.9
10°	2127.1	2192.4	2237.3	2294.0	2382.9	2514.5	2662.1	2816.2	2891.1	2906.1
12.5°	2235.2	2229.8	2226.6	2267.3	2374.3	2541.2	2722.0	2906.1	2990.6	3008.8
15°	2337.9	2227.7	2161.4	2189.2	2335.8	2558.3	2780.9	3004.5	3099.7	3119.0
17.5°	2357.2	2190.3	2067.2	2086.5	2274.8	2563.7	2837.6	3100.8	3203.5	3221.7
20°	2303.7	2142.1	1998.7	1972.0	2197.7	2549.8	2872.9	3181.1	3293.4	3312.7
22.5°	2236.3	2099.3	1947.4	1877.8	2103.6	2535.9	2912.5	3265.6	3395.1	3412.2
25°	2165.6	2044.7	1899.2	1793.3	1996.6	2527.3	2978.8	3376.9	3533.1	3553.4
27.5°	2090.7	1978.4	1857.5	1752.6	1898.1	2538.0	3073.0	3556.6	3734.2	3763.1
30°	2010.5	1912.1	1830.7	1738.7	1830.7	2547.6	3176.8	3740.7	3949.3	3990.0
32.5°	1927.0	1851.1	1802.9	1745.1	1789.0	2525.2	3267.7	3947.2	4206.1	4241.4
35°	1843.6	1789.0	1767.6	1756.9	1733.4	2442.8	3341.6	4155.8	4499.3	4530.3
37.5°	1765.5	1724.8	1718.4	1730.2	1647.8	2308.0	3427.2	4421.2	4787.1	4834.2
40°	1692.7	1655.3	1654.2	1652.1	1553.6	2123.9	3542.7	4690.8	5070.6	5092.0
42.5°	1625.3	1578.2	1586.8	1561.1	1476.6	1924.9	3651.9	4920.8	5334.9	5349.9
45°	1565.4	1503.3	1513.0	1480.9	1440.2	1716.3	3748.1	5192.6	5669.8	5679.5
47.5°	1507.6	1441.3	1414.5	1412.4	1433.8	1523.7	3842.3	5715.8	6194.1	6211.2
50°	1454.1	1382.4	1306.4	1353.5	1394.2	1379.2	3960.0	6276.5	6735.5	6731.3
52.5°	1402.7	1308.6	1200.5	1291.5	1291.5	1272.2	3926.8	6616.8	7182.8	7256.6
55°	1343.9	1189.8	1090.3	1187.7	1140.6	1175.9	3339.4	6728.0	7464.2	7569.1
57.5°	1227.3	1043.2	956.6	1009.0	938.4	1090.3	2398.9	6175.9	6985.9	7172.1
60°	1114.9	935.2	878.5	868.8	776.8	889.2	1554.7	4835.3	5750.1	5844.2
62.5°	983.3	842.1	793.9	720.1	624.9	647.3	941.6	3182.1	3863.7	3885.1
65°	883.8	762.9	670.9	583.1	511.5	469.7	556.4	1534.4	1931.3	1905.6
67.5°	758.6	653.8	566.0	502.9	444.0	391.6	370.2	455.8	515.7	498.6
70°	675.2	574.6	490.1	430.1	375.6	323.1	285.7	268.6	263.2	258.9
72.5°	582.1	494.3	406.6	348.8	297.5	249.3	215.1	194.7	189.4	185.1
75°	464.4	382.0	301.7	247.2	202.2	168.0	145.5	128.4	125.2	120.9
77.5°	307.1	245.0	179.8	146.6	119.8	101.6	86.7	76.0	73.8	71.7
80°	169.1	141.2	110.2	88.8	71.7	62.1	56.7	50.3	49.2	48.1
82.5°	100.6	84.5	63.1	50.3	41.7	37.4	34.2	31.0	30.0	28.9
85°	50.3	39.6	27.8	23.5	21.4	19.3	19.3	16.0	15.0	15.0
87.5°	12.8	10.7	6.4	5.3	5.3	5.3	4.3	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)