

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: P633314

Luminaire Tested: GWS-SA2E-740-U-SLR-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633314
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11415.9 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

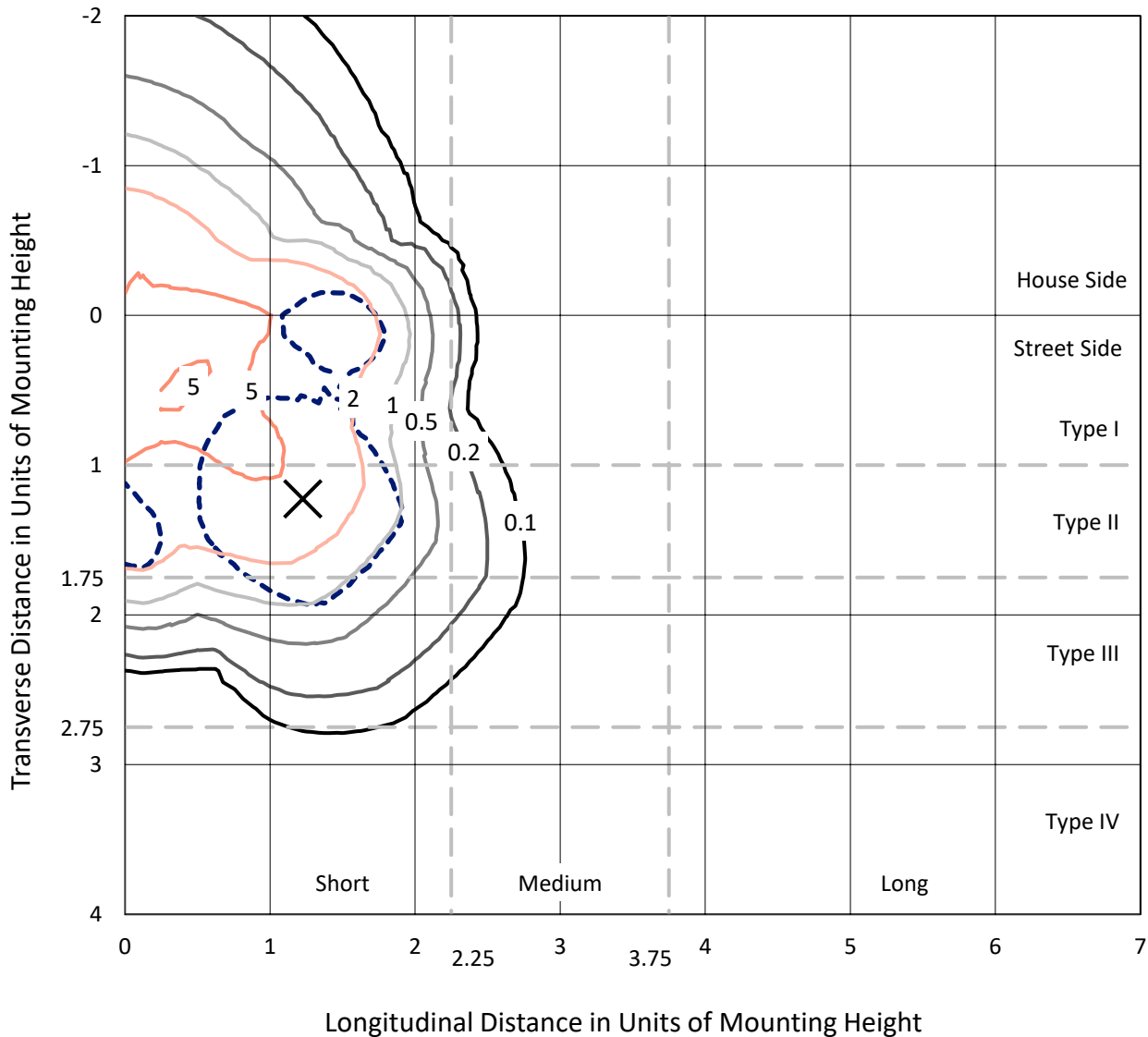
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

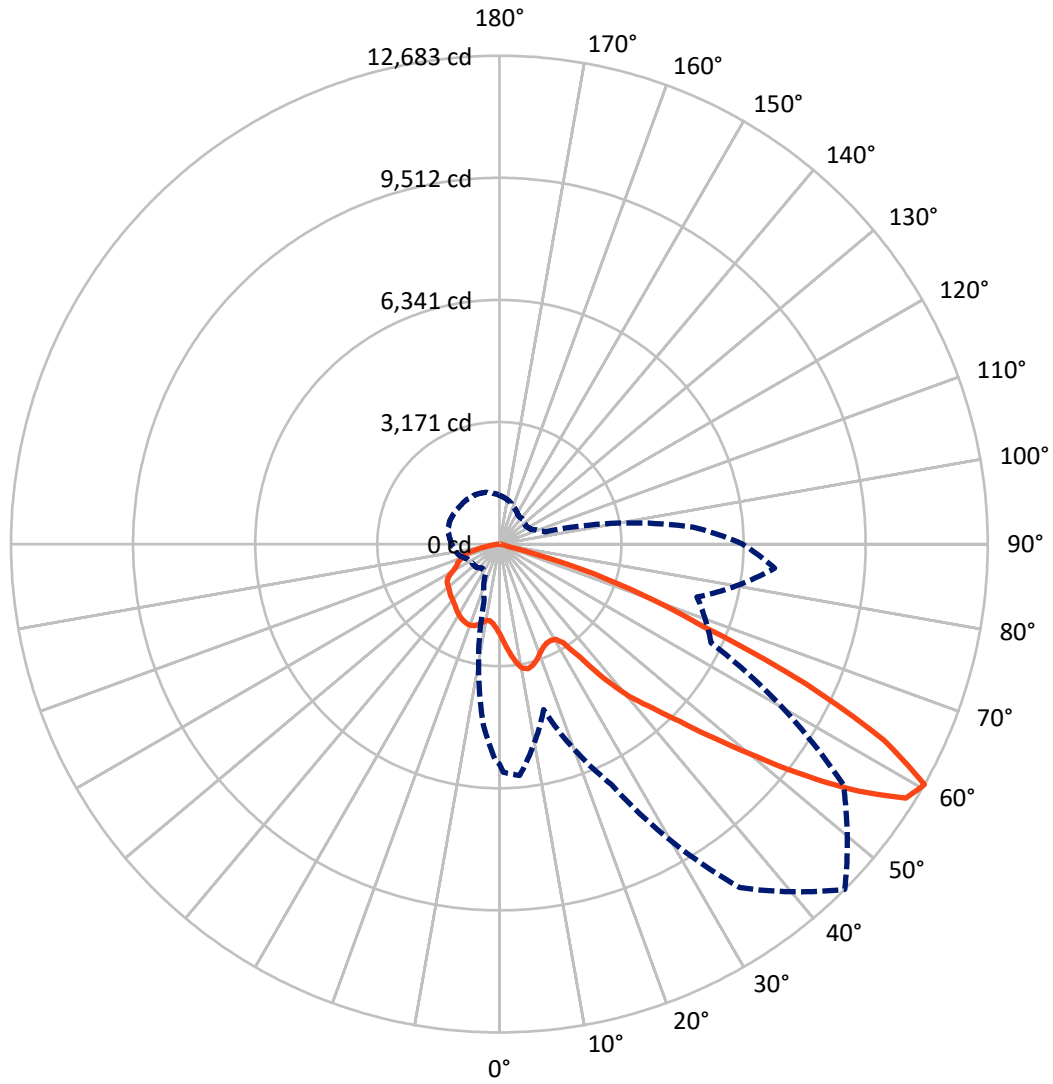
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.8 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
House Side	Lumens	4001.7	0.0	4001.7
	% Fixture	35.1	0.0	35.1
Street Side	Lumens	7414.2	0.0	7414.2
	% Fixture	64.9	0.0	64.9
Total	Lumens	11415.9	0.0	11415.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.8	2.0
10°-20°	723.0	6.3
20°-30°	1174.5	10.3
30°-40°	1656.4	14.5
40°-50°	2289.1	20.1
50°-60°	2946.7	25.8
60°-70°	1867.1	16.4
70°-80°	479.1	4.2
80°-90°	51.2	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°	11415.9	100.0
0°-180°	11415.9	100.0

Coefficient of Utilization



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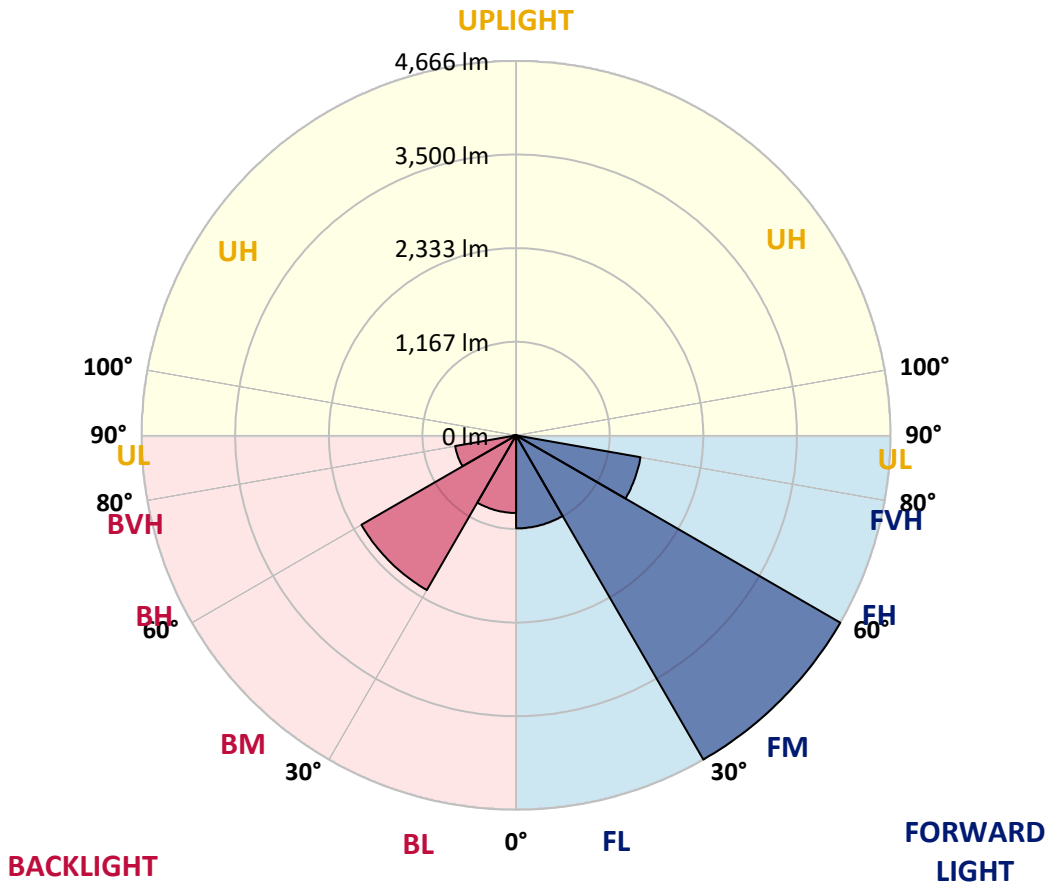
CATALOG NUMBER: GWS-SA2E-740-U-SLR-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1159.1	10.2			
FM (30°-60°)	4666.2	40.9			
FH (60°-80°)	1575.0	13.8			G1/1800
FVH (80°-90°)	13.9	0.1			G1/100
BL (0°-30°)	967.2	8.5	B2/1000		
BM (30°-60°)	2226.0	19.5	B2/2500		
BH (60°-80°)	771.2	6.8	B2/1000		G2/1000
BVH (80°-90°)	37.3	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°	2345.2	2345.2	2345.2	2345.2	2345.2	2345.2	2345.2	2345.2	2345.2	2345.2	2345.2
2.5°	2452.9	2469.6	2480.1	2500.0	2535.5	2555.4	2577.4	2553.3	2559.6	2556.5	2517.8
5°	2598.3	2618.2	2645.4	2703.9	2769.8	2806.5	2841.0	2835.7	2803.3	2748.9	2710.2
7.5°	2734.3	2757.3	2804.4	2899.5	2996.8	3053.3	3095.2	3068.0	3040.8	2955.0	2857.7
10°	2841.0	2854.6	2918.4	3046.0	3159.0	3222.8	3274.0	3267.7	3230.1	3133.9	3003.1
12.5°	2941.4	2950.8	3019.8	3147.5	3248.9	3277.2	3319.0	3332.6	3320.0	3247.9	3119.2
15°	3049.1	3066.9	3130.7	3228.0	3274.0	3244.7	3259.4	3297.0	3332.6	3332.6	3214.4
17.5°	3149.5	3165.2	3230.1	3271.9	3228.0	3150.6	3154.8	3202.9	3287.6	3376.5	3301.2
20°	3238.5	3253.1	3316.9	3277.2	3138.0	3025.1	3021.9	3080.5	3217.5	3404.8	3394.3
22.5°	3335.7	3356.7	3410.0	3281.3	3054.4	2911.1	2910.0	2970.7	3155.8	3433.0	3501.0
25°	3473.8	3506.2	3533.4	3318.0	3009.4	2836.8	2850.4	2907.9	3135.9	3479.0	3659.0
27.5°	3678.8	3705.0	3702.9	3394.3	3007.3	2806.5	2834.7	2901.6	3171.5	3560.6	3825.3
30°	3900.6	3914.2	3892.2	3501.0	3055.4	2825.3	2867.1	2946.6	3261.5	3695.6	4070.0
32.5°	4146.4	4163.1	4121.3	3661.0	3167.3	2964.4	3056.4	3095.2	3388.0	3890.1	4329.4
35°	4428.8	4461.2	4374.4	3872.3	3496.8	3471.7	3605.6	3555.4	3656.9	4120.2	4606.6
37.5°	4725.9	4726.9	4602.5	4185.1	4143.3	4186.1	4453.9	4297.0	4226.9	4376.5	4889.1
40°	4978.0	4971.7	4780.3	4606.6	4706.0	4876.5	5199.7	4959.1	4775.0	4720.7	5123.4
42.5°	5230.1	5207.1	5013.5	4874.4	5094.1	5444.5	5809.6	5514.6	5126.5	5033.4	5354.5
45°	5552.2	5544.9	5311.7	4981.1	5444.5	6080.5	6564.8	6086.7	5334.7	5215.4	5739.5
47.5°	6072.1	6036.5	5602.4	4972.7	5772.9	6927.7	7539.7	6807.5	5480.1	5219.6	6360.8
50°	6580.5	6536.5	5949.7	4971.7	6111.9	7806.4	8690.3	7683.0	5628.6	5244.7	6992.6
52.5°	7094.1	7094.1	6519.8	5089.9	6467.5	8787.6	10019.8	8774.0	5881.7	5573.2	7769.8
55°	7399.5	7481.1	7161.0	5289.7	6883.8	9942.4	11334.6	9951.8	6272.9	6166.2	8487.3
57.5°	7011.4	7164.1	7118.1	5150.6	7129.6	10790.7	12449.6	10845.1	6466.5	6236.3	8379.6
60°	5713.3	5925.7	6031.3	4447.6	6886.9	10889.0	12682.9	10903.6	6066.9	5310.6	7177.7
62.5°	3798.1	3972.8	4133.8	3177.8	5962.3	9795.9	11217.4	9799.0	5066.9	3963.3	4972.7
65°	1862.9	1992.7	2166.3	1878.6	4657.9	8185.0	8745.7	7918.3	3665.2	2218.6	2536.6
67.5°	487.4	524.1	548.1	729.1	3336.8	5880.7	5703.9	5791.8	2354.6	724.9	663.2
70°	253.1	255.2	254.2	301.3	2255.2	3737.4	3930.9	3637.0	1643.3	303.3	261.5
72.5°	181.0	182.0	178.9	202.9	1088.9	2141.2	2218.6	2194.5	860.9	179.9	178.9
75°	118.2	119.2	117.2	119.2	164.2	243.7	224.9	236.4	143.3	114.0	114.0
77.5°	70.1	71.1	70.1	72.2	70.1	70.1	64.9	64.9	61.7	61.7	62.8
80°	47.1	47.1	46.0	48.1	43.9	43.9	41.8	40.8	37.7	36.6	36.6
82.5°	28.2	29.3	28.2	28.2	26.2	26.2	24.1	23.0	19.9	19.9	18.8
85°	14.6	14.6	13.6	13.6	11.5	10.5	8.4	8.4	6.3	5.2	5.2
87.5°	2.1	2.1	1.0	1.0	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°	2345.2	2345.2	2345.2	2345.2	2345.2	2345.2	2345.2	2345.2	2345.2	2345.2	2345.2
2.5°	2507.3	2486.4	2455.0	2424.7	2396.4	2367.1	2333.7	2299.1	2269.8	2239.5	2223.8
5°	2659.0	2616.1	2534.5	2462.3	2397.5	2344.1	2286.6	2237.4	2191.4	2153.7	2134.9
7.5°	2796.0	2729.0	2605.6	2491.6	2403.7	2330.5	2251.0	2177.8	2116.1	2070.1	2052.3
10°	2922.6	2843.1	2680.9	2536.6	2434.1	2352.5	2255.2	2155.8	2074.2	2013.6	1998.9
12.5°	3025.1	2934.1	2740.6	2573.2	2451.9	2364.0	2278.2	2192.4	2111.9	2033.4	2020.9
15°	3116.1	3008.3	2785.5	2596.2	2445.6	2333.7	2261.5	2251.0	2251.0	2162.1	2137.0
17.5°	3194.5	3076.3	2822.1	2606.7	2405.8	2243.7	2199.8	2290.8	2393.3	2329.5	2273.0
20°	3284.5	3141.2	2852.5	2606.7	2332.6	2129.7	2125.5	2280.3	2432.0	2433.0	2373.4
22.5°	3375.5	3216.5	2888.0	2597.2	2232.2	1997.9	2075.3	2238.5	2373.4	2430.9	2390.1
25°	3523.0	3321.1	2944.5	2589.9	2115.0	1907.9	2030.3	2183.0	2297.0	2357.7	2331.6
27.5°	3710.2	3459.2	3030.3	2601.4	1998.9	1854.6	1982.2	2110.9	2214.4	2267.8	2248.9
30°	3919.4	3618.2	3122.3	2621.3	1915.2	1827.4	1924.7	2028.2	2120.3	2173.6	2165.2
32.5°	4186.1	3790.8	3201.8	2594.1	1868.2	1813.8	1864.0	1938.3	2027.2	2060.6	2068.0
35°	4505.2	3981.1	3262.5	2487.4	1825.3	1799.1	1798.1	1844.1	1906.9	1960.2	1965.5
37.5°	4799.1	4203.9	3329.5	2304.4	1747.9	1762.5	1720.7	1747.9	1809.6	1862.9	1883.9
40°	5089.9	4429.9	3422.6	2071.1	1646.4	1680.9	1631.8	1650.6	1699.8	1769.9	1803.3
42.5°	5372.3	4633.8	3520.9	1832.6	1545.0	1566.9	1530.3	1549.1	1600.4	1688.3	1725.9
45°	5679.8	4910.0	3597.2	1607.7	1457.1	1447.7	1418.4	1445.6	1523.0	1619.2	1664.2
47.5°	6261.4	5345.1	3647.4	1458.1	1410.0	1342.0	1308.6	1367.1	1455.0	1552.3	1606.7
50°	6971.7	5974.8	3632.8	1363.0	1369.2	1233.2	1221.7	1299.1	1393.3	1494.8	1554.4
52.5°	7534.4	6593.0	3466.5	1272.0	1289.7	1164.2	1130.7	1243.7	1333.7	1437.2	1498.9
55°	7964.3	6801.2	2956.0	1164.2	1160.0	1114.0	1043.9	1186.2	1274.0	1370.3	1437.2
57.5°	7613.9	6337.8	2191.4	1015.7	990.6	1014.6	946.6	1088.9	1200.8	1296.0	1355.6
60°	6319.0	5053.3	1220.7	899.6	828.4	887.0	876.6	986.4	1121.3	1221.7	1273.0
62.5°	4289.7	3365.0	723.8	711.3	671.5	755.2	810.7	882.8	1015.7	1097.3	1145.4
65°	2138.0	1634.9	481.2	532.4	537.7	621.3	725.9	805.4	916.3	1000.0	1048.1
67.5°	620.3	508.4	366.1	406.9	463.4	530.3	614.0	708.2	815.9	915.3	971.7
70°	267.8	270.9	290.8	338.9	394.3	463.4	547.1	639.1	730.1	806.5	849.4
72.5°	189.3	196.7	218.6	267.8	320.1	386.0	469.7	558.6	624.5	701.9	746.9
75°	121.3	126.6	144.3	182.0	220.7	284.5	364.0	445.6	513.6	569.0	611.9
77.5°	66.9	68.0	82.6	104.6	130.8	171.5	230.1	293.9	344.1	375.5	414.2
80°	38.7	38.7	46.0	59.6	75.3	100.4	132.8	164.2	194.6	214.4	233.3
82.5°	20.9	20.9	24.1	32.4	40.8	55.4	74.3	90.0	108.8	119.2	131.8
85°	6.3	6.3	8.4	11.5	14.6	20.9	29.3	37.7	46.0	53.3	60.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
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°	2345.2	2345.2	2345.2	2345.2	2345.2	2345.2	2345.2	2345.2	2345.2	2345.2	2345.2
2.5°	2220.7	2206.0	2197.7	2187.2	2190.4	2180.9	2175.7	2178.8	2160.0	2178.8	2197.7
5°	2127.6	2106.7	2089.9	2076.3	2070.1	2057.5	2050.2	2050.2	2038.7	2057.5	2080.5
7.5°	2046.0	2029.3	2020.9	2012.5	2003.1	1991.6	1979.1	1974.9	1967.5	1987.4	2007.3
10°	1991.6	1993.7	1998.9	2010.4	2008.3	2001.0	1982.2	1971.7	1971.7	1994.7	2025.1
12.5°	2016.7	2038.7	2051.2	2072.2	2076.3	2070.1	2051.2	2042.9	2063.8	2098.3	2148.5
15°	2114.0	2128.6	2139.1	2155.8	2154.8	2149.6	2134.9	2141.2	2210.2	2277.2	2322.1
17.5°	2219.6	2202.9	2200.8	2211.3	2214.4	2208.1	2199.8	2228.0	2342.0	2404.8	2427.8
20°	2296.0	2238.5	2225.9	2230.1	2238.5	2235.3	2235.3	2281.4	2399.6	2428.8	2399.6
22.5°	2319.0	2237.4	2218.6	2219.6	2231.1	2232.2	2237.4	2285.5	2354.6	2355.6	2310.6
25°	2282.4	2203.9	2190.4	2192.4	2206.0	2205.0	2207.1	2234.3	2264.6	2252.1	2218.6
27.5°	2213.4	2145.4	2141.2	2152.7	2170.5	2161.1	2154.8	2162.1	2176.8	2161.1	2131.8
30°	2134.9	2077.4	2079.5	2101.4	2120.3	2104.6	2088.9	2093.1	2094.1	2077.4	2043.9
32.5°	2052.3	2009.4	2016.7	2039.7	2061.7	2045.0	2028.2	2026.1	2006.3	1986.4	1954.0
35°	1969.6	1952.9	1962.3	1981.1	2000.0	1986.4	1975.9	1969.6	1926.8	1897.5	1870.3
37.5°	1894.3	1906.9	1923.6	1935.1	1941.4	1940.4	1934.1	1919.4	1862.9	1828.4	1792.9
40°	1827.4	1866.1	1883.9	1889.1	1898.5	1896.4	1895.4	1874.5	1800.2	1763.6	1722.8
42.5°	1766.7	1821.1	1851.4	1856.7	1861.9	1862.9	1859.8	1829.5	1744.7	1701.9	1663.2
45°	1708.1	1779.3	1818.0	1812.7	1820.1	1820.1	1823.2	1783.5	1690.4	1646.4	1605.6
47.5°	1656.9	1740.6	1776.1	1769.9	1774.0	1777.2	1780.3	1734.3	1630.7	1588.9	1547.1
50°	1609.8	1698.7	1729.1	1731.2	1731.2	1738.5	1737.4	1692.4	1580.5	1535.5	1493.7
52.5°	1559.6	1655.8	1688.3	1701.9	1706.0	1709.2	1694.5	1642.2	1529.3	1474.9	1436.2
55°	1501.0	1611.9	1641.2	1659.0	1667.3	1665.3	1645.4	1592.0	1477.0	1422.6	1378.6
57.5°	1412.1	1517.8	1559.6	1568.0	1581.6	1573.2	1550.2	1505.2	1393.3	1338.9	1293.9
60°	1314.8	1391.2	1424.7	1432.0	1421.5	1424.7	1421.5	1378.6	1281.4	1238.5	1192.5
62.5°	1187.2	1255.2	1290.8	1300.2	1282.4	1293.9	1289.7	1236.4	1139.1	1094.1	1053.3
65°	1091.0	1165.3	1207.1	1212.3	1207.1	1212.3	1197.7	1132.8	1040.8	994.8	952.9
67.5°	1015.7	1092.0	1136.0	1150.6	1145.4	1144.3	1121.3	1046.0	950.8	900.6	847.3
70°	886.0	952.9	1009.4	1045.0	1045.0	1025.1	981.2	911.1	834.7	791.8	750.0
72.5°	784.5	869.2	924.7	961.3	968.6	957.1	895.4	821.1	733.3	690.4	646.4
75°	646.4	729.1	788.7	836.8	846.2	833.7	762.5	689.3	607.7	565.9	522.0
77.5°	432.0	481.2	529.3	573.2	563.8	572.2	524.1	468.6	418.4	387.0	367.2
80°	243.7	276.1	290.8	314.8	314.8	314.8	283.5	257.3	229.1	211.3	191.4
82.5°	138.1	159.0	165.3	185.1	190.4	191.4	170.5	153.8	136.0	126.6	113.0
85°	63.8	75.3	76.4	87.9	92.0	100.4	91.0	79.5	69.0	64.9	56.5
87.5°	2.1	6.3	8.4	15.7	20.9	24.1	26.2	26.2	22.0	19.9	16.7
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: P633314

CATALOG NUMBER: GWS-SA2E-740-U-SLR-W-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2345.2	2345.2	2345.2	2345.2	2345.2	2345.2	2345.2	2345.2	2345.2	2345.2
2.5°	2220.7	2245.8	2275.1	2296.0	2333.7	2365.0	2397.5	2433.0	2459.2	2452.9
5°	2108.8	2150.6	2203.9	2253.1	2323.2	2394.3	2472.8	2553.3	2600.4	2598.3
7.5°	2046.0	2105.6	2170.5	2236.4	2319.0	2421.5	2541.8	2667.3	2731.1	2734.3
10°	2079.5	2143.3	2187.2	2242.7	2329.5	2458.1	2602.5	2753.1	2826.3	2841.0
12.5°	2185.1	2179.9	2176.8	2216.5	2321.1	2484.3	2661.1	2841.0	2923.6	2941.4
15°	2285.5	2177.8	2112.9	2140.1	2283.4	2501.0	2718.6	2937.2	3030.3	3049.1
17.5°	2304.4	2141.2	2020.9	2039.7	2223.8	2506.2	2774.0	3031.3	3131.8	3149.5
20°	2252.1	2094.1	1954.0	1927.8	2148.5	2492.6	2808.5	3109.8	3219.6	3238.5
22.5°	2186.2	2052.3	1903.7	1835.8	2056.5	2479.1	2847.2	3192.4	3319.0	3335.7
25°	2117.1	1998.9	1856.7	1753.1	1951.9	2470.7	2912.1	3301.2	3453.9	3473.8
27.5°	2043.9	1934.1	1815.9	1713.4	1855.6	2481.1	3004.1	3476.9	3650.6	3678.8
30°	1965.5	1869.2	1789.7	1699.8	1789.7	2490.6	3105.6	3656.9	3860.8	3900.6
32.5°	1883.9	1809.6	1762.5	1706.0	1748.9	2468.6	3194.5	3858.7	4111.9	4146.4
35°	1802.3	1748.9	1728.0	1717.6	1694.5	2388.0	3266.7	4062.7	4398.5	4428.8
37.5°	1725.9	1686.2	1679.9	1691.4	1610.9	2256.2	3350.4	4322.1	4679.9	4725.9
40°	1654.8	1618.2	1617.1	1615.0	1518.8	2076.3	3463.3	4585.7	4957.1	4978.0
42.5°	1588.9	1542.9	1551.2	1526.1	1443.5	1881.8	3570.0	4810.6	5215.4	5230.1
45°	1530.3	1469.6	1479.1	1447.7	1407.9	1677.8	3664.2	5076.3	5542.8	5552.2
47.5°	1473.8	1409.0	1382.8	1380.7	1401.7	1489.5	3756.2	5587.8	6055.4	6072.1
50°	1421.5	1351.4	1277.2	1323.2	1363.0	1348.3	3871.3	6135.9	6584.6	6580.5
52.5°	1371.3	1279.3	1173.6	1262.5	1262.5	1243.7	3838.9	6468.5	7021.9	7094.1
55°	1313.8	1163.2	1065.9	1161.1	1115.0	1149.6	3264.6	6577.3	7297.0	7399.5
57.5°	1199.8	1019.9	935.1	986.4	917.4	1065.9	2345.2	6037.6	6829.4	7011.4
60°	1089.9	914.2	858.8	849.4	759.4	869.2	1519.9	4726.9	5621.3	5713.3
62.5°	961.3	823.2	776.1	704.0	610.9	632.8	920.5	3110.8	3777.2	3798.1
65°	864.0	745.8	655.8	570.1	500.0	459.2	543.9	1500.0	1888.1	1862.9
67.5°	741.6	639.1	553.3	491.6	434.1	382.8	361.9	445.6	504.2	487.4
70°	660.0	561.7	479.1	420.5	367.2	315.9	279.3	262.5	257.3	253.1
72.5°	569.0	483.3	397.5	341.0	290.8	243.7	210.2	190.4	185.1	181.0
75°	454.0	373.4	295.0	241.6	197.7	164.2	142.3	125.5	122.4	118.2
77.5°	300.2	239.5	175.7	143.3	117.2	99.4	84.7	74.3	72.2	70.1
80°	165.3	138.1	107.7	86.8	70.1	60.7	55.4	49.2	48.1	47.1
82.5°	98.3	82.6	61.7	49.2	40.8	36.6	33.5	30.3	29.3	28.2
85°	49.2	38.7	27.2	23.0	20.9	18.8	18.8	15.7	14.6	14.6
87.5°	12.6	10.5	6.3	5.2	5.2	5.2	4.2	3.1	3.1	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)