

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: P633754

Luminaire Tested: GWS-SA2F-735-U-SLR-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633754
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-SA2F-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12518.5 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

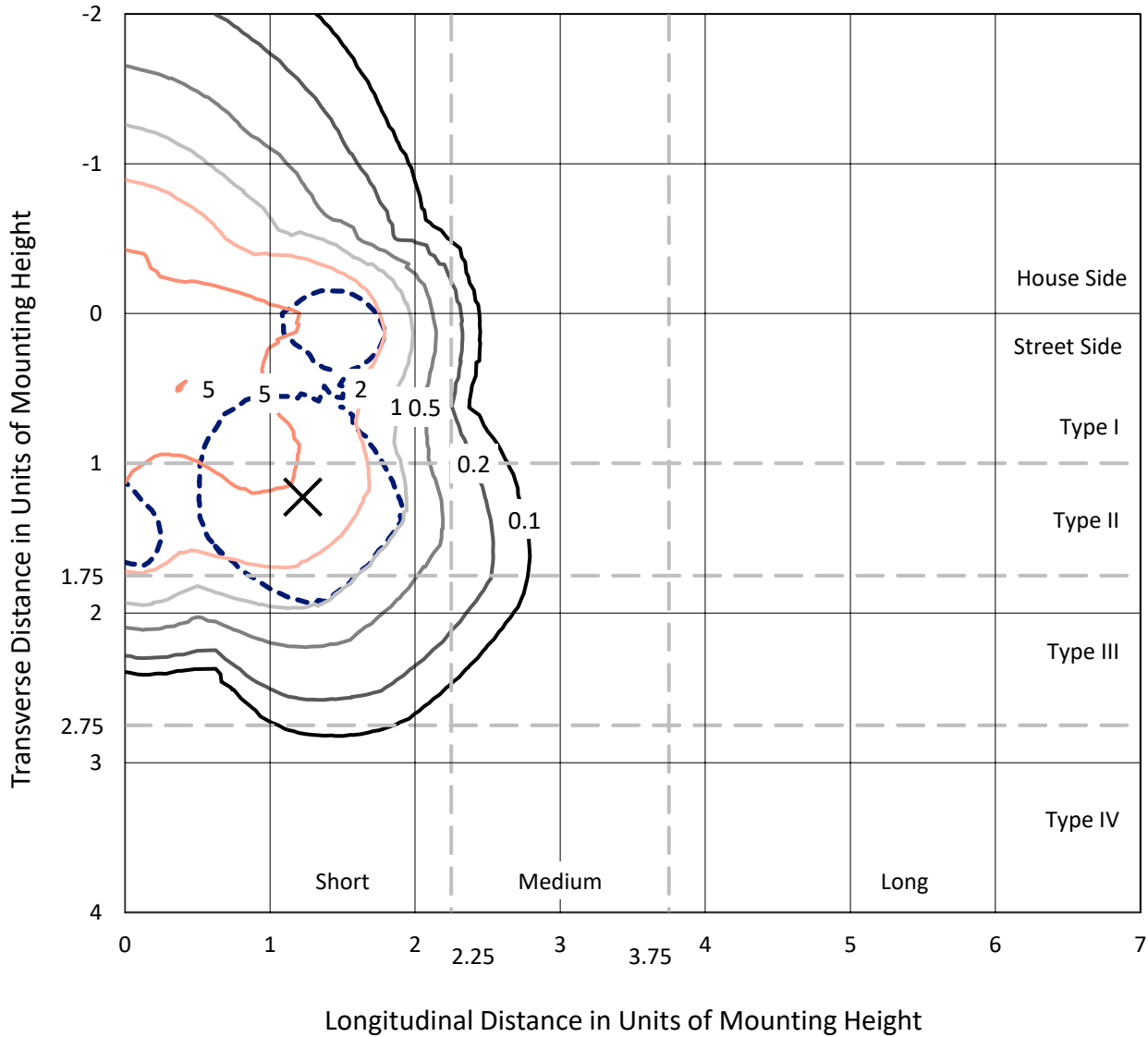
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

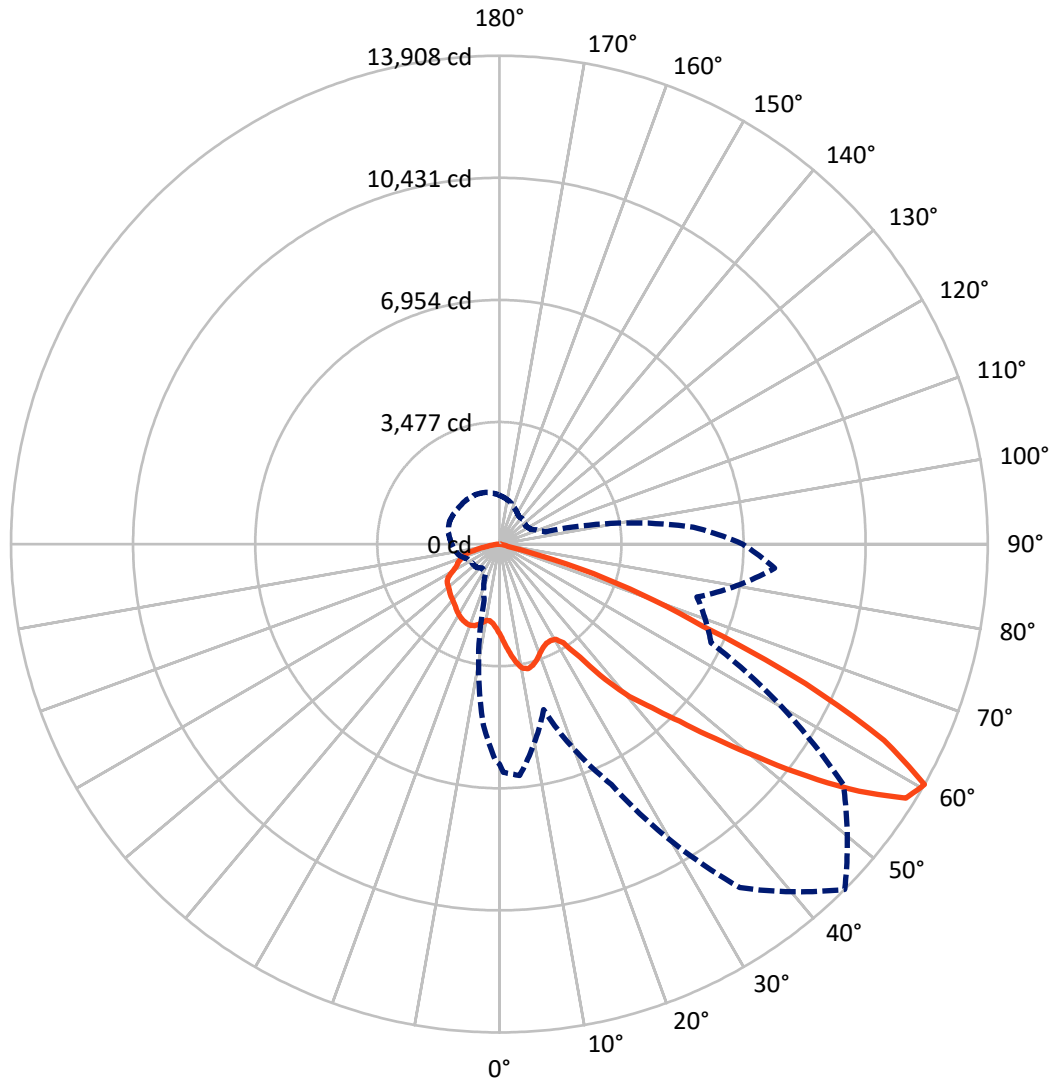
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.6 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	4388.2	0.0	4388.2
	% Fixture	35.1	0.0	35.1
Street Side	Lumens	8130.3	0.0	8130.3
	% Fixture	64.9	0.0	64.9
Total	Lumens	12518.5	0.0	12518.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.9	2.0
10°-20°	792.9	6.3
20°-30°	1287.9	10.3
30°-40°	1816.4	14.5
40°-50°	2510.2	20.1
50°-60°	3231.3	25.8
60°-70°	2047.4	16.4
70°-80°	525.4	4.2
80°-90°	56.2	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°	12518.5	100.0
0°-180°	12518.5	100.0

Coefficient of Utilization



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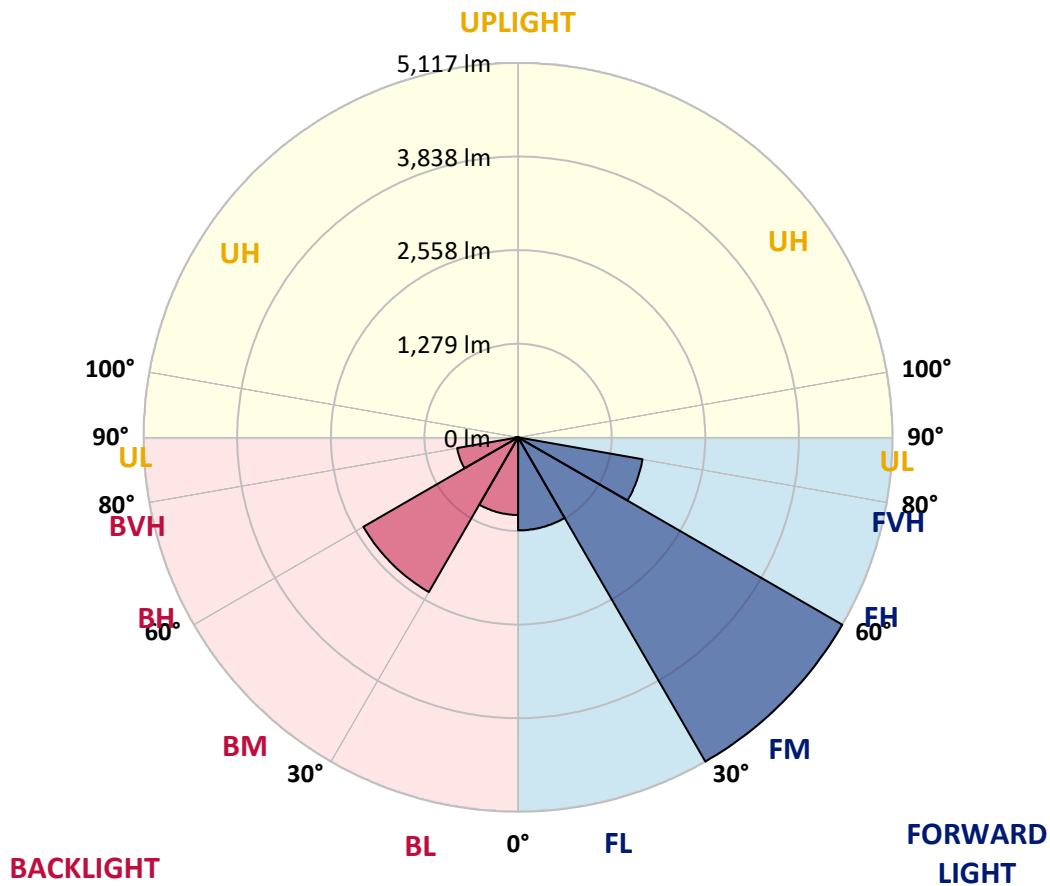
CATALOG NUMBER: GWS-SA2F-735-U-SLR-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1271.1	10.2			
FM (30°-60°)	5116.8	40.9			
FH (60°-80°)	1727.1	13.8			G1/1800
FVH (80°-90°)	15.3	0.1			G1/100
BL (0°-30°)	1060.6	8.5	B3/2500		
BM (30°-60°)	2441.0	19.5	B2/2500		
BH (60°-80°)	845.6	6.8	B2/1000		G2/1000
BVH (80°-90°)	40.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2571.7	2571.7	2571.7	2571.7	2571.7	2571.7	2571.7	2571.7	2571.7	2571.7	2571.7
2.5°	2689.8	2708.2	2719.6	2741.4	2780.4	2802.2	2826.3	2799.9	2806.8	2803.4	2760.9
5°	2849.3	2871.0	2900.9	2965.1	3037.4	3077.5	3115.4	3109.6	3074.1	3014.4	2972.0
7.5°	2998.4	3023.6	3075.2	3179.6	3286.3	3348.2	3394.1	3364.3	3334.4	3240.4	3133.7
10°	3115.4	3130.3	3200.2	3340.2	3464.1	3534.0	3590.2	3583.4	3542.1	3436.5	3293.2
12.5°	3225.5	3235.8	3311.5	3451.4	3562.7	3593.7	3639.6	3654.5	3640.7	3561.6	3420.5
15°	3343.6	3363.1	3433.1	3539.8	3590.2	3558.1	3574.2	3615.5	3654.5	3654.5	3524.9
17.5°	3453.7	3470.9	3542.1	3587.9	3539.8	3454.9	3459.5	3512.2	3605.2	3702.6	3620.1
20°	3551.2	3567.3	3637.3	3593.7	3441.1	3317.2	3313.8	3378.0	3528.3	3733.6	3722.1
22.5°	3657.9	3680.9	3739.4	3598.3	3349.4	3192.2	3191.1	3257.6	3460.6	3764.6	3839.1
25°	3809.3	3844.9	3874.7	3638.4	3300.0	3110.8	3125.7	3188.8	3438.8	3815.1	4012.4
27.5°	4034.1	4062.8	4060.5	3722.1	3297.7	3077.5	3108.5	3181.9	3477.8	3904.5	4194.7
30°	4277.3	4292.2	4268.1	3839.1	3350.5	3098.2	3144.0	3231.2	3576.5	4052.5	4463.1
32.5°	4546.9	4565.2	4519.3	4014.6	3473.2	3250.7	3351.7	3394.1	3715.3	4265.8	4747.6
35°	4856.6	4892.1	4796.9	4246.3	3834.6	3807.0	3953.9	3898.8	4010.1	4518.2	5051.6
37.5°	5182.3	5183.5	5047.0	4589.3	4543.4	4590.5	4884.1	4712.0	4635.2	4799.2	5361.3
40°	5458.8	5451.9	5242.0	5051.6	5160.5	5347.5	5701.9	5438.1	5236.2	5176.6	5618.2
42.5°	5735.2	5710.0	5497.8	5345.2	5586.1	5970.4	6370.7	6047.2	5621.6	5519.6	5871.7
45°	6088.5	6080.5	5824.7	5462.2	5970.4	6667.8	7198.8	6674.6	5849.9	5719.1	6293.8
47.5°	6658.6	6619.6	6143.6	5453.0	6330.5	7596.9	8267.9	7464.9	6009.3	5723.7	6975.2
50°	7216.0	7167.9	6524.4	5451.9	6702.2	8560.4	9529.6	8425.0	6172.2	5751.3	7668.0
52.5°	7779.2	7779.2	7149.5	5581.5	7092.2	9636.3	10987.5	9621.4	6449.8	6111.4	8520.2
55°	8114.2	8203.6	7852.6	5800.6	7548.7	10902.6	12429.3	10913.0	6878.8	6761.8	9307.1
57.5°	7688.6	7856.1	7805.6	5648.0	7818.2	11832.9	13652.1	11892.5	7091.0	6838.7	9188.9
60°	6265.1	6498.0	6613.8	4877.2	7552.1	11940.7	13907.9	11956.8	6652.8	5823.5	7871.0
62.5°	4164.9	4356.5	4533.1	3484.7	6538.1	10742.0	12300.9	10745.5	5556.3	4346.1	5453.0
65°	2042.9	2185.1	2375.5	2060.1	5107.8	8975.6	9590.4	8683.1	4019.2	2432.9	2781.6
67.5°	534.5	574.7	601.0	799.5	3659.1	6448.7	6254.8	6351.2	2582.0	794.9	727.2
70°	277.6	279.9	278.7	330.3	2473.0	4098.4	4310.6	3988.3	1802.0	332.6	286.8
72.5°	198.4	199.6	196.1	222.5	1194.1	2348.0	2432.9	2406.5	944.0	197.3	196.1
75°	129.6	130.8	128.5	130.8	180.1	267.3	246.6	259.2	157.1	125.0	125.0
77.5°	76.9	78.0	76.9	79.1	76.9	76.9	71.1	71.1	67.7	67.7	68.8
80°	51.6	51.6	50.5	52.8	48.2	48.2	45.9	44.7	41.3	40.1	40.1
82.5°	31.0	32.1	31.0	31.0	28.7	28.7	26.4	25.2	21.8	21.8	20.6
85°	16.1	16.1	14.9	14.9	12.6	11.5	9.2	9.2	6.9	5.7	5.7
87.5°	2.3	2.3	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°	2571.7	2571.7	2571.7	2571.7	2571.7	2571.7	2571.7	2571.7	2571.7	2571.7	2571.7
2.5°	2749.5	2726.5	2692.1	2658.8	2627.9	2595.8	2559.0	2521.2	2489.1	2455.8	2438.6
5°	2915.8	2868.8	2779.3	2700.1	2629.0	2570.5	2507.4	2453.5	2403.1	2361.8	2341.1
7.5°	3066.0	2992.6	2857.3	2732.3	2635.9	2555.6	2468.4	2388.1	2320.5	2270.0	2250.5
10°	3204.8	3117.7	2939.9	2781.6	2669.2	2579.7	2473.0	2364.1	2274.6	2208.1	2192.0
12.5°	3317.2	3217.5	3005.2	2821.7	2688.7	2592.3	2498.3	2404.2	2315.9	2229.8	2216.1
15°	3417.0	3298.9	3054.6	2847.0	2681.8	2559.0	2479.9	2468.4	2468.4	2370.9	2343.4
17.5°	3503.1	3373.4	3094.7	2858.4	2638.2	2460.4	2412.2	2512.0	2624.4	2554.5	2492.5
20°	3601.7	3444.6	3128.0	2858.4	2557.9	2335.4	2330.8	2500.6	2666.9	2668.0	2602.6
22.5°	3701.5	3527.2	3167.0	2848.1	2447.8	2190.8	2275.7	2454.7	2602.6	2665.7	2621.0
25°	3863.2	3641.9	3228.9	2840.1	2319.3	2092.2	2226.4	2393.9	2518.9	2585.4	2556.8
27.5°	4068.6	3793.3	3323.0	2852.7	2192.0	2033.7	2173.6	2314.7	2428.3	2486.8	2466.1
30°	4298.0	3967.6	3423.9	2874.5	2100.2	2003.9	2110.6	2224.1	2325.1	2383.6	2374.4
32.5°	4590.5	4156.9	3511.1	2844.7	2048.6	1989.0	2044.0	2125.5	2223.0	2259.7	2267.7
35°	4940.3	4365.6	3577.6	2727.7	2001.6	1972.9	1971.8	2022.2	2091.1	2149.6	2155.3
37.5°	5262.6	4610.0	3651.0	2526.9	1916.7	1932.8	1886.9	1916.7	1984.4	2042.9	2065.8
40°	5581.5	4857.7	3753.1	2271.1	1805.4	1843.3	1789.4	1810.0	1863.9	1940.8	1977.5
42.5°	5891.2	5081.4	3860.9	2009.6	1694.2	1718.3	1678.1	1698.8	1755.0	1851.3	1892.6
45°	6228.4	5384.2	3944.7	1763.0	1597.8	1587.5	1555.4	1585.2	1670.1	1775.6	1824.9
47.5°	6866.2	5861.4	3999.7	1599.0	1546.2	1471.7	1434.9	1499.2	1595.5	1702.2	1761.9
50°	7645.0	6551.9	3983.7	1494.6	1501.5	1352.4	1339.7	1424.6	1527.9	1639.1	1704.5
52.5°	8262.1	7229.8	3801.3	1394.8	1414.3	1276.7	1240.0	1363.8	1462.5	1576.0	1643.7
55°	8733.6	7458.1	3241.5	1276.7	1272.1	1221.6	1144.7	1300.7	1397.1	1502.6	1576.0
57.5°	8349.3	6949.9	2403.1	1113.8	1086.2	1112.6	1038.1	1194.1	1316.8	1421.2	1486.6
60°	6929.3	5541.4	1338.6	986.5	908.5	972.7	961.2	1081.7	1229.6	1339.7	1395.9
62.5°	4704.0	3690.0	793.8	780.0	736.4	828.2	889.0	968.1	1113.8	1203.2	1256.0
65°	2344.6	1792.8	527.6	583.8	589.6	681.3	796.0	883.2	1004.8	1096.6	1149.3
67.5°	680.2	557.5	401.5	446.2	508.1	581.5	673.3	776.5	894.7	1003.7	1065.6
70°	293.6	297.1	318.9	371.6	432.4	508.1	599.9	700.8	800.6	884.4	931.4
72.5°	207.6	215.6	239.7	293.6	351.0	423.3	515.0	612.5	684.8	769.7	819.0
75°	133.1	138.8	158.3	199.6	242.0	312.0	399.2	488.6	563.2	624.0	671.0
77.5°	73.4	74.6	90.6	114.7	143.4	188.1	252.3	322.3	377.4	411.8	454.2
80°	42.4	42.4	50.5	65.4	82.6	110.1	145.7	180.1	213.3	235.1	255.8
82.5°	22.9	22.9	26.4	35.6	44.7	60.8	81.4	98.6	119.3	130.8	144.5
85°	6.9	6.9	9.2	12.6	16.1	22.9	32.1	41.3	50.5	58.5	66.5
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°	2571.7	2571.7	2571.7	2571.7	2571.7	2571.7	2571.7	2571.7	2571.7	2571.7	2571.7
2.5°	2435.2	2419.1	2409.9	2398.5	2401.9	2391.6	2385.8	2389.3	2368.6	2389.3	2409.9
5°	2333.1	2310.1	2291.8	2276.9	2270.0	2256.2	2248.2	2248.2	2235.6	2256.2	2281.5
7.5°	2243.6	2225.3	2216.1	2206.9	2196.6	2184.0	2170.2	2165.6	2157.6	2179.4	2201.2
10°	2184.0	2186.3	2192.0	2204.6	2202.3	2194.3	2173.6	2162.2	2162.2	2187.4	2220.7
12.5°	2211.5	2235.6	2249.3	2272.3	2276.9	2270.0	2249.3	2240.2	2263.1	2301.0	2356.0
15°	2318.2	2334.2	2345.7	2364.1	2362.9	2357.2	2341.1	2348.0	2423.7	2497.1	2546.4
17.5°	2434.0	2415.7	2413.4	2424.8	2428.3	2421.4	2412.2	2443.2	2568.2	2637.0	2662.3
20°	2517.8	2454.7	2440.9	2445.5	2454.7	2451.2	2451.2	2501.7	2631.3	2663.4	2631.3
22.5°	2543.0	2453.5	2432.9	2434.0	2446.6	2447.8	2453.5	2506.3	2582.0	2583.1	2533.8
25°	2502.8	2416.8	2401.9	2404.2	2419.1	2418.0	2420.3	2450.1	2483.3	2469.6	2432.9
27.5°	2427.1	2352.6	2348.0	2360.6	2380.1	2369.8	2362.9	2370.9	2387.0	2369.8	2337.7
30°	2341.1	2278.0	2280.3	2304.4	2325.1	2307.8	2290.6	2295.2	2296.4	2278.0	2241.3
32.5°	2250.5	2203.5	2211.5	2236.7	2260.8	2242.5	2224.1	2221.8	2200.0	2178.2	2142.7
35°	2159.9	2141.5	2151.8	2172.5	2193.1	2178.2	2166.8	2159.9	2112.9	2080.7	2050.9
37.5°	2077.3	2091.1	2109.4	2122.0	2128.9	2127.8	2120.9	2104.8	2042.9	2005.0	1966.0
40°	2003.9	2046.3	2065.8	2071.6	2081.9	2079.6	2078.4	2055.5	1974.1	1933.9	1889.2
42.5°	1937.4	1997.0	2030.3	2036.0	2041.7	2042.9	2039.4	2006.2	1913.3	1866.2	1823.8
45°	1873.1	1951.1	1993.6	1987.8	1995.9	1995.9	1999.3	1955.7	1853.6	1805.4	1760.7
47.5°	1816.9	1908.7	1947.7	1940.8	1945.4	1948.8	1952.3	1901.8	1788.2	1742.4	1696.5
50°	1765.3	1862.8	1896.1	1898.4	1898.4	1906.4	1905.2	1855.9	1733.2	1683.9	1638.0
52.5°	1710.2	1815.8	1851.3	1866.2	1870.8	1874.3	1858.2	1800.9	1677.0	1617.3	1574.9
55°	1646.0	1767.6	1799.7	1819.2	1828.4	1826.1	1804.3	1745.8	1619.6	1560.0	1511.8
57.5°	1548.5	1664.4	1710.2	1719.4	1734.3	1725.2	1699.9	1650.6	1527.9	1468.2	1418.9
60°	1441.8	1525.6	1562.3	1570.3	1558.8	1562.3	1558.8	1511.8	1405.1	1358.1	1307.6
62.5°	1301.9	1376.4	1415.4	1425.8	1406.3	1418.9	1414.3	1355.8	1249.1	1199.8	1155.1
65°	1196.4	1277.8	1323.7	1329.4	1323.7	1329.4	1313.4	1242.2	1141.3	1090.8	1045.0
67.5°	1113.8	1197.5	1245.7	1261.7	1256.0	1254.9	1229.6	1147.0	1042.7	987.6	929.1
70°	971.5	1045.0	1106.9	1145.9	1145.9	1124.1	1075.9	999.1	915.3	868.3	822.4
72.5°	860.3	953.2	1014.0	1054.1	1062.2	1049.5	981.9	900.4	804.1	757.0	708.9
75°	708.9	799.5	864.9	917.6	928.0	914.2	836.2	755.9	666.4	620.5	572.4
77.5°	473.7	527.6	580.4	628.6	618.3	627.4	574.7	513.9	458.8	424.4	402.6
80°	267.3	302.8	318.9	345.3	345.3	345.3	310.8	282.2	251.2	231.7	209.9
82.5°	151.4	174.4	181.2	203.0	208.8	209.9	187.0	168.6	149.1	138.8	123.9
85°	70.0	82.6	83.7	96.4	100.9	110.1	99.8	87.2	75.7	71.1	61.9
87.5°	2.3	6.9	9.2	17.2	22.9	26.4	28.7	28.7	24.1	21.8	18.4
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: P633754

CATALOG NUMBER: GWS-SA2F-735-U-SLR-W-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2571.7	2571.7	2571.7	2571.7	2571.7	2571.7	2571.7	2571.7	2571.7	2571.7
2.5°	2435.2	2462.7	2494.8	2517.8	2559.0	2593.5	2629.0	2668.0	2696.7	2689.8
5°	2312.4	2358.3	2416.8	2470.7	2547.6	2625.6	2711.6	2799.9	2851.5	2849.3
7.5°	2243.6	2309.0	2380.1	2452.4	2543.0	2655.4	2787.3	2925.0	2994.9	2998.4
10°	2280.3	2350.3	2398.5	2459.3	2554.5	2695.5	2853.8	3019.0	3099.3	3115.4
12.5°	2396.2	2390.4	2387.0	2430.6	2545.3	2724.2	2918.1	3115.4	3206.0	3225.5
15°	2506.3	2388.1	2317.0	2346.8	2504.0	2742.6	2981.2	3220.9	3323.0	3343.6
17.5°	2526.9	2348.0	2216.1	2236.7	2438.6	2748.3	3042.0	3324.1	3434.2	3453.7
20°	2469.6	2296.4	2142.7	2114.0	2356.0	2733.4	3079.8	3410.2	3530.6	3551.2
22.5°	2397.3	2250.5	2087.6	2013.1	2255.1	2718.5	3122.2	3500.8	3639.6	3657.9
25°	2321.6	2192.0	2036.0	1922.4	2140.4	2709.3	3193.4	3620.1	3787.5	3809.3
27.5°	2241.3	2120.9	1991.3	1878.9	2034.9	2720.8	3294.3	3812.8	4003.2	4034.1
30°	2155.3	2049.8	1962.6	1863.9	1962.6	2731.1	3405.6	4010.1	4233.7	4277.3
32.5°	2065.8	1984.4	1932.8	1870.8	1917.9	2707.0	3503.1	4231.4	4509.0	4546.9
35°	1976.4	1917.9	1894.9	1883.4	1858.2	2618.7	3582.2	4455.1	4823.3	4856.6
37.5°	1892.6	1849.0	1842.1	1854.8	1766.4	2474.2	3674.0	4739.6	5131.9	5182.3
40°	1814.6	1774.5	1773.3	1771.0	1665.5	2276.9	3797.9	5028.6	5435.8	5458.8
42.5°	1742.4	1691.9	1701.1	1673.5	1582.9	2063.5	3914.9	5275.2	5719.1	5735.2
45°	1678.1	1611.6	1621.9	1587.5	1543.9	1839.9	4018.1	5566.6	6078.2	6088.5
47.5°	1616.2	1545.1	1516.4	1514.1	1537.0	1633.4	4119.0	6127.5	6640.2	6658.6
50°	1558.8	1482.0	1400.5	1451.0	1494.6	1478.5	4245.2	6728.5	7220.6	7216.0
52.5°	1503.8	1402.8	1287.0	1384.5	1384.5	1363.8	4209.6	7093.3	7700.1	7779.2
55°	1440.7	1275.5	1168.8	1273.2	1222.7	1260.6	3579.9	7212.6	8001.8	8114.2
57.5°	1315.7	1118.4	1025.5	1081.7	1006.0	1168.8	2571.7	6620.7	7489.0	7688.6
60°	1195.2	1002.5	941.7	931.4	832.8	953.2	1666.7	5183.5	6164.2	6265.1
62.5°	1054.1	902.7	851.1	772.0	669.9	694.0	1009.4	3411.3	4142.0	4164.9
65°	947.5	817.8	719.2	625.1	548.3	503.6	596.5	1644.9	2070.4	2042.9
67.5°	813.3	700.8	606.8	539.1	476.0	419.8	396.9	488.6	552.9	534.5
70°	723.8	616.0	525.3	461.1	402.6	346.4	306.3	287.9	282.2	277.6
72.5°	624.0	529.9	435.9	373.9	318.9	267.3	230.6	208.8	203.0	198.4
75°	497.8	409.5	323.5	265.0	216.8	180.1	156.0	137.6	134.2	129.6
77.5°	329.2	262.7	192.7	157.1	128.5	109.0	92.9	81.4	79.1	76.9
80°	181.2	151.4	118.1	95.2	76.9	66.5	60.8	53.9	52.8	51.6
82.5°	107.8	90.6	67.7	53.9	44.7	40.1	36.7	33.3	32.1	31.0
85°	53.9	42.4	29.8	25.2	22.9	20.6	20.6	17.2	16.1	16.1
87.5°	13.8	11.5	6.9	5.7	5.7	5.7	4.6	3.4	3.4	2.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)