

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: P636504

Luminaire Tested: GWS-SA3F-830-U-SLR-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636504
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-SA3F-830-U-SLR-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15196.6 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

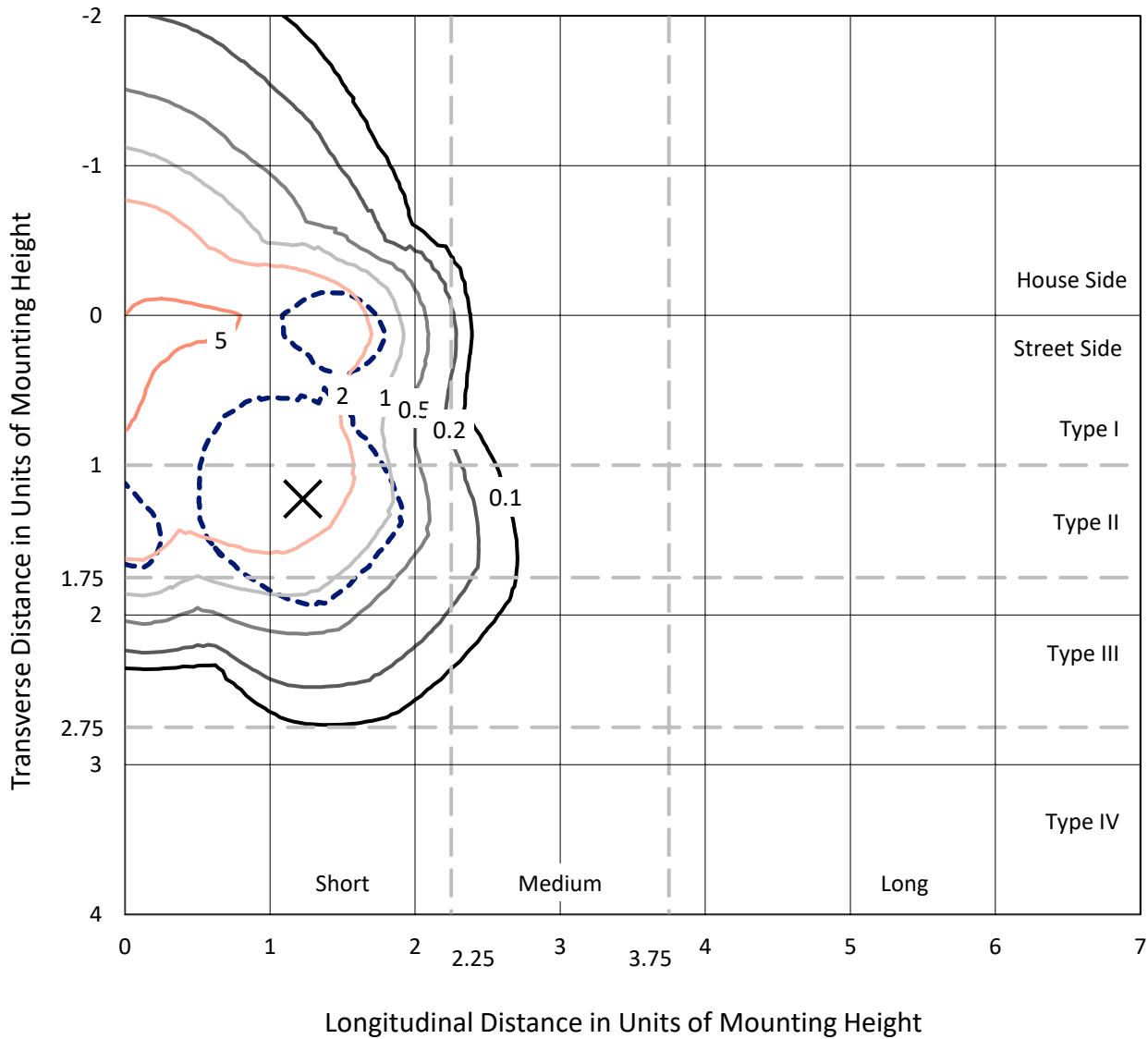
Input Watts (W): 183.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

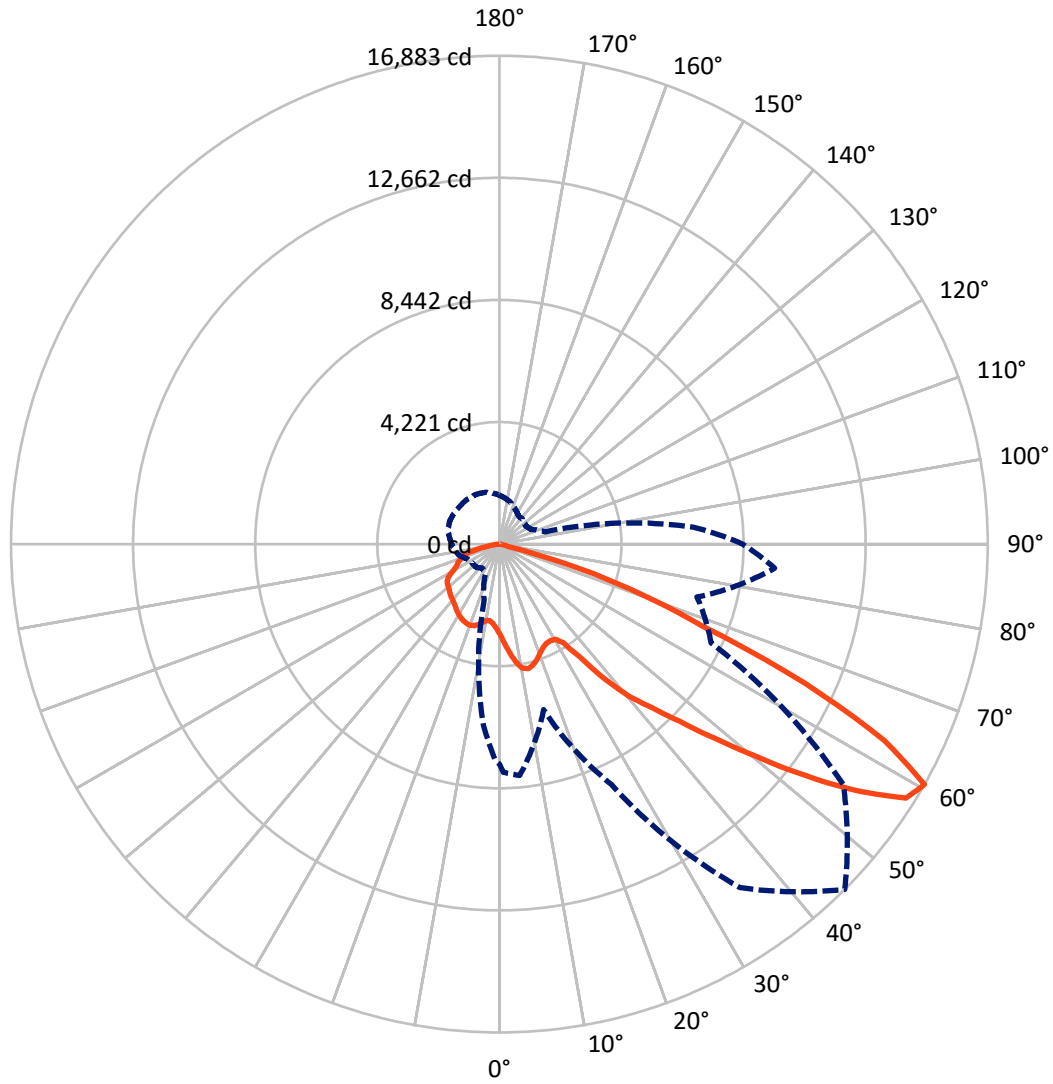
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	5327.0	0.0	5327.0
	% Fixture	35.1	0.0	35.1
Street Side	Lumens	9869.7	0.0	9869.7
	% Fixture	64.9	0.0	64.9
Total	Lumens	15196.6	0.0	15196.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.6	2.0
10°-20°	962.5	6.3
20°-30°	1563.5	10.3
30°-40°	2204.9	14.5
40°-50°	3047.2	20.1
50°-60°	3922.6	25.8
60°-70°	2485.4	16.4
70°-80°	637.8	4.2
80°-90°	68.2	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°	15196.6	100.0
0°-180°	15196.6	100.0

Coefficient of Utilization



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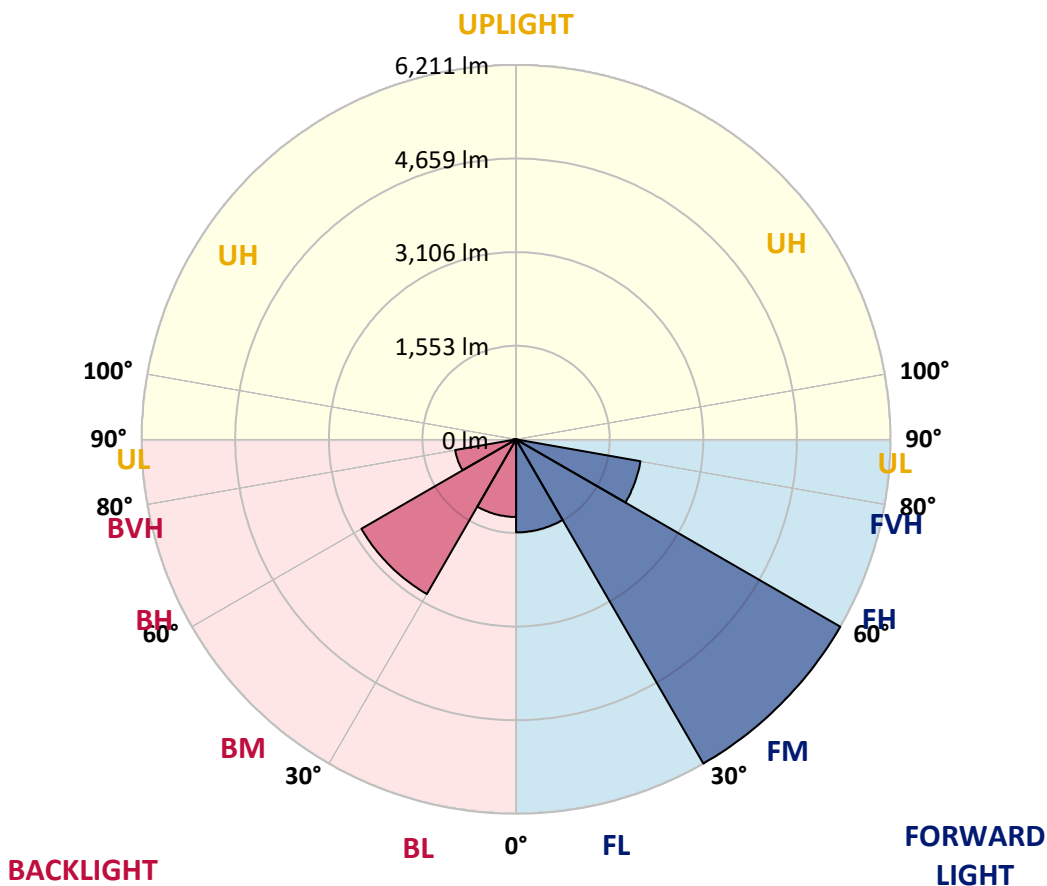
CATALOG NUMBER: GWS-SA3F-830-U-SLR-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1543.0	10.2			
FM (30°-60°)	6211.5	40.9			
FH (60°-80°)	2096.6	13.8			G2/5000
FVH (80°-90°)	18.5	0.1			G1/100
BL (0°-30°)	1287.5	8.5	B3/2500		
BM (30°-60°)	2963.2	19.5	B3/5000		
BH (60°-80°)	1026.6	6.8	B3/2500		G3/2500
BVH (80°-90°)	49.7	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3121.8	3121.8	3121.8	3121.8	3121.8	3121.8	3121.8	3121.8	3121.8	3121.8	3121.8
2.5°	3265.2	3287.5	3301.5	3327.9	3375.2	3401.7	3430.9	3398.9	3407.3	3403.1	3351.6
5°	3458.8	3485.3	3521.5	3599.4	3687.2	3735.9	3781.8	3774.9	3731.7	3659.3	3607.8
7.5°	3639.8	3670.4	3733.1	3859.8	3989.3	4064.5	4120.2	4084.0	4047.8	3933.6	3804.1
10°	3781.8	3799.9	3884.9	4054.8	4205.1	4290.1	4358.3	4349.9	4299.8	4171.7	3997.7
12.5°	3915.5	3928.0	4019.9	4189.8	4324.9	4362.5	4418.2	4436.3	4419.6	4323.5	4152.2
15°	4058.9	4082.6	4167.5	4297.0	4358.3	4319.3	4338.8	4388.9	4436.3	4436.3	4278.9
17.5°	4192.6	4213.5	4299.8	4355.5	4297.0	4194.0	4199.6	4263.6	4376.4	4494.8	4394.5
20°	4311.0	4330.5	4415.4	4362.5	4177.3	4026.9	4022.7	4100.7	4283.1	4532.4	4518.4
22.5°	4440.5	4468.3	4539.3	4368.1	4065.9	3875.1	3873.7	3954.5	4201.0	4570.0	4660.5
25°	4624.3	4667.4	4703.6	4416.8	4006.0	3776.3	3794.4	3871.0	4174.5	4631.2	4870.7
27.5°	4897.2	4932.0	4929.2	4518.4	4003.2	3735.9	3773.5	3862.6	4221.8	4739.8	5092.1
30°	5192.4	5210.5	5181.2	4660.5	4067.3	3761.0	3816.6	3922.5	4341.6	4919.5	5417.9
32.5°	5519.6	5541.9	5486.2	4873.5	4216.3	3946.1	4068.7	4120.2	4510.1	5178.4	5763.3
35°	5895.5	5938.7	5823.1	5154.8	4654.9	4621.5	4799.7	4732.9	4867.9	5484.8	6132.3
37.5°	6291.0	6292.4	6126.7	5571.1	5515.4	5572.5	5929.0	5720.1	5626.8	5825.9	6508.2
40°	6626.6	6618.2	6363.4	6132.3	6264.5	6491.5	6921.8	6601.5	6356.4	6284.0	6820.1
42.5°	6962.1	6931.5	6673.9	6488.7	6781.1	7247.6	7733.6	7340.9	6824.3	6700.4	7127.8
45°	7391.0	7381.3	7070.8	6630.7	7247.6	8094.2	8738.9	8102.5	7101.4	6942.7	7640.3
47.5°	8083.1	8035.7	7457.9	6619.6	7684.8	9222.1	10036.6	9061.9	7294.9	6948.2	8467.4
50°	8759.8	8701.3	7920.1	6618.2	8136.0	10391.7	11568.3	10227.4	7492.7	6981.6	9308.4
52.5°	9443.5	9443.5	8679.0	6775.6	8609.4	11697.8	13338.1	11679.7	7829.6	7418.9	10343.0
55°	9850.0	9958.7	9532.6	7041.5	9163.6	13235.0	15088.4	13247.6	8350.4	8208.4	11298.2
57.5°	9333.5	9536.8	9475.5	6856.3	9490.8	14364.3	16572.7	14436.7	8608.0	8301.7	11154.8
60°	7605.5	7888.1	8028.7	5920.6	9167.8	14495.2	16883.2	14514.7	8076.1	7069.4	9554.9
62.5°	5055.9	5288.4	5502.9	4230.2	7936.8	13040.1	14932.4	13044.3	6744.9	5275.9	6619.6
65°	2479.9	2652.6	2883.7	2500.8	6200.5	10895.8	11642.1	10540.7	4879.1	2953.3	3376.6
67.5°	648.9	697.6	729.6	970.5	4441.9	7828.2	7592.9	7709.9	3134.4	965.0	882.8
70°	337.0	339.8	338.4	401.0	3002.1	4975.2	5232.8	4841.5	2187.5	403.8	348.1
72.5°	240.9	242.3	238.1	270.1	1449.5	2850.3	2953.3	2921.3	1146.0	239.5	238.1
75°	157.3	158.7	156.0	158.7	218.6	324.4	299.4	314.7	190.8	151.8	151.8
77.5°	93.3	94.7	93.3	96.1	93.3	93.3	86.3	86.3	82.2	82.2	83.5
80°	62.7	62.7	61.3	64.1	58.5	58.5	55.7	54.3	50.1	48.7	48.7
82.5°	37.6	39.0	37.6	37.6	34.8	34.8	32.0	30.6	26.5	26.5	25.1
85°	19.5	19.5	18.1	18.1	15.3	13.9	11.1	11.1	8.4	7.0	7.0
87.5°	2.8	2.8	1.4	1.4	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°	3121.8	3121.8	3121.8	3121.8	3121.8	3121.8	3121.8	3121.8	3121.8	3121.8	3121.8
2.5°	3337.7	3309.8	3268.0	3227.7	3190.1	3151.1	3106.5	3060.6	3021.6	2981.2	2960.3
5°	3539.6	3482.5	3373.9	3277.8	3191.4	3120.4	3043.9	2978.4	2917.1	2867.0	2841.9
7.5°	3722.0	3632.8	3468.5	3316.8	3199.8	3102.3	2996.5	2899.0	2816.9	2755.6	2731.9
10°	3890.4	3784.6	3568.8	3376.6	3240.2	3131.6	3002.1	2869.8	2761.2	2680.4	2660.9
12.5°	4026.9	3905.8	3648.2	3425.4	3263.9	3146.9	3032.7	2918.5	2811.3	2706.9	2690.2
15°	4148.0	4004.6	3708.0	3456.0	3255.5	3106.5	3010.4	2996.5	2996.5	2878.2	2844.7
17.5°	4252.5	4095.1	3756.8	3469.9	3202.6	2986.8	2928.3	3049.4	3185.9	3100.9	3025.7
20°	4372.2	4181.5	3797.2	3469.9	3105.1	2835.0	2829.4	3035.5	3237.4	3238.8	3159.4
22.5°	4493.4	4281.7	3844.5	3457.4	2971.4	2659.5	2762.6	2979.8	3159.4	3236.0	3181.7
25°	4689.7	4421.0	3919.7	3447.7	2815.5	2539.8	2702.7	2906.0	3057.8	3138.5	3103.7
27.5°	4938.9	4604.8	4033.9	3463.0	2660.9	2468.8	2638.7	2809.9	2947.8	3018.8	2993.7
30°	5217.4	4816.4	4156.4	3489.4	2549.5	2432.6	2562.1	2699.9	2822.5	2893.5	2882.3
32.5°	5572.5	5046.2	4262.2	3453.2	2486.9	2414.5	2481.3	2580.2	2698.5	2743.1	2752.8
35°	5997.2	5299.6	4343.0	3311.2	2429.8	2395.0	2393.6	2454.9	2538.4	2609.4	2616.4
37.5°	6388.5	5596.2	4432.1	3067.5	2326.7	2346.2	2290.5	2326.7	2408.9	2479.9	2507.8
40°	6775.6	5896.9	4556.0	2757.0	2191.7	2237.6	2172.2	2197.3	2262.7	2356.0	2400.5
42.5°	7151.5	6168.5	4686.9	2439.5	2056.6	2085.9	2037.1	2062.2	2130.4	2247.4	2297.5
45°	7560.9	6536.1	4788.6	2140.2	1939.7	1927.1	1888.1	1924.3	2027.4	2155.5	2215.4
47.5°	8335.1	7115.3	4855.4	1941.0	1877.0	1786.5	1741.9	1819.9	1936.9	2066.4	2138.8
50°	9280.5	7953.6	4835.9	1814.3	1822.7	1641.7	1626.4	1729.4	1854.7	1989.8	2069.2
52.5°	10029.7	8776.5	4614.5	1693.2	1716.9	1549.8	1505.2	1655.6	1775.3	1913.2	1995.4
55°	10602.0	9053.6	3935.0	1549.8	1544.2	1482.9	1389.6	1579.0	1696.0	1824.1	1913.2
57.5°	10135.5	8436.7	2917.1	1352.0	1318.6	1350.7	1260.1	1449.5	1598.5	1725.2	1804.6
60°	8411.7	6726.8	1625.0	1197.5	1102.8	1180.8	1166.9	1313.1	1492.7	1626.4	1694.6
62.5°	5710.4	4479.4	963.6	946.9	893.9	1005.3	1079.1	1175.2	1352.0	1460.7	1524.7
65°	2846.1	2176.4	640.5	708.7	715.7	827.1	966.3	1072.2	1219.8	1331.2	1395.2
67.5°	825.7	676.7	487.4	541.7	616.8	706.0	817.4	942.7	1086.1	1218.4	1293.6
70°	356.5	360.6	387.1	451.1	524.9	616.8	728.2	850.8	971.9	1073.6	1130.7
72.5°	252.0	261.8	291.0	356.5	426.1	513.8	625.2	743.6	831.3	934.3	994.2
75°	161.5	168.5	192.2	242.3	293.8	378.7	484.6	593.2	683.7	757.5	814.6
77.5°	89.1	90.5	110.0	139.2	174.1	228.4	306.3	391.3	458.1	499.9	551.4
80°	51.5	51.5	61.3	79.4	100.3	133.7	176.8	218.6	259.0	285.4	310.5
82.5°	27.8	27.8	32.0	43.2	54.3	73.8	98.9	119.7	144.8	158.7	175.4
85°	8.4	8.4	11.1	15.3	19.5	27.8	39.0	50.1	61.3	71.0	80.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
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°	3121.8	3121.8	3121.8	3121.8	3121.8	3121.8	3121.8	3121.8	3121.8	3121.8	3121.8
2.5°	2956.1	2936.6	2925.5	2911.6	2915.7	2903.2	2896.3	2900.4	2875.4	2900.4	2925.5
5°	2832.2	2804.4	2782.1	2764.0	2755.6	2738.9	2729.2	2729.2	2713.8	2738.9	2769.5
7.5°	2723.6	2701.3	2690.2	2679.0	2666.5	2651.2	2634.5	2628.9	2619.2	2645.6	2672.1
10°	2651.2	2654.0	2660.9	2676.2	2673.5	2663.7	2638.7	2624.7	2624.7	2655.4	2695.7
12.5°	2684.6	2713.8	2730.6	2758.4	2764.0	2755.6	2730.6	2719.4	2747.3	2793.2	2860.1
15°	2814.1	2833.6	2847.5	2869.8	2868.4	2861.4	2841.9	2850.3	2942.2	3031.3	3091.2
17.5°	2954.7	2932.5	2929.7	2943.6	2947.8	2939.4	2928.3	2965.9	3117.6	3201.2	3231.8
20°	3056.4	2979.8	2963.1	2968.7	2979.8	2975.6	2975.6	3036.9	3194.2	3233.2	3194.2
22.5°	3087.0	2978.4	2953.3	2954.7	2970.1	2971.4	2978.4	3042.5	3134.4	3135.8	3075.9
25°	3038.3	2933.8	2915.7	2918.5	2936.6	2935.2	2938.0	2974.2	3014.6	2997.9	2953.3
27.5°	2946.4	2855.9	2850.3	2865.6	2889.3	2876.8	2868.4	2878.2	2897.6	2876.8	2837.8
30°	2841.9	2765.4	2768.1	2797.4	2822.5	2801.6	2780.7	2786.3	2787.6	2765.4	2720.8
32.5°	2731.9	2674.9	2684.6	2715.2	2744.5	2722.2	2699.9	2697.1	2670.7	2644.2	2601.1
35°	2621.9	2599.7	2612.2	2637.3	2662.3	2644.2	2630.3	2621.9	2564.9	2525.9	2489.7
37.5°	2521.7	2538.4	2560.7	2576.0	2584.3	2583.0	2574.6	2555.1	2479.9	2434.0	2386.6
40°	2432.6	2484.1	2507.8	2514.7	2527.3	2524.5	2523.1	2495.2	2396.4	2347.6	2293.3
42.5°	2351.8	2424.2	2464.6	2471.6	2478.5	2479.9	2475.7	2435.4	2322.6	2265.5	2214.0
45°	2273.8	2368.5	2420.0	2413.1	2422.8	2422.8	2427.0	2374.1	2250.2	2191.7	2137.4
47.5°	2205.6	2317.0	2364.3	2356.0	2361.6	2365.7	2369.9	2308.6	2170.8	2115.1	2059.4
50°	2142.9	2261.3	2301.7	2304.5	2304.5	2314.2	2312.8	2253.0	2104.0	2044.1	1988.4
52.5°	2076.1	2204.2	2247.4	2265.5	2271.1	2275.2	2255.7	2186.1	2035.7	1963.3	1911.8
55°	1998.1	2145.7	2184.7	2208.4	2219.5	2216.7	2190.3	2119.3	1966.1	1893.7	1835.2
57.5°	1879.8	2020.4	2076.1	2087.3	2105.4	2094.2	2063.6	2003.7	1854.7	1782.3	1722.4
60°	1750.3	1851.9	1896.5	1906.2	1892.3	1896.5	1892.3	1835.2	1705.7	1648.6	1587.4
62.5°	1580.4	1670.9	1718.3	1730.8	1707.1	1722.4	1716.9	1645.9	1516.4	1456.5	1402.2
65°	1452.3	1551.2	1606.9	1613.8	1606.9	1613.8	1594.3	1508.0	1385.5	1324.2	1268.5
67.5°	1352.0	1453.7	1512.2	1531.7	1524.7	1523.3	1492.7	1392.4	1265.7	1198.9	1127.9
70°	1179.4	1268.5	1343.7	1391.0	1391.0	1364.6	1306.1	1212.8	1111.2	1054.1	998.4
72.5°	1044.3	1157.1	1230.9	1279.6	1289.4	1274.1	1191.9	1093.1	976.1	919.0	860.5
75°	860.5	970.5	1049.9	1113.9	1126.5	1109.8	1015.1	917.6	809.0	753.3	694.8
77.5°	575.1	640.5	704.6	763.1	750.5	761.7	697.6	623.8	557.0	515.2	488.7
80°	324.4	367.6	387.1	419.1	419.1	419.1	377.3	342.5	304.9	281.3	254.8
82.5°	183.8	211.6	220.0	246.5	253.4	254.8	227.0	204.7	181.0	168.5	150.4
85°	84.9	100.3	101.6	117.0	122.5	133.7	121.1	105.8	91.9	86.3	75.2
87.5°	2.8	8.4	11.1	20.9	27.8	32.0	34.8	34.8	29.2	26.5	22.3
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: P636504

CATALOG NUMBER: GWS-SA3F-830-U-SLR-W-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3121.8	3121.8	3121.8	3121.8	3121.8	3121.8	3121.8	3121.8	3121.8	3121.8
2.5°	2956.1	2989.5	3028.5	3056.4	3106.5	3148.3	3191.4	3238.8	3273.6	3265.2
5°	2807.1	2862.8	2933.8	2999.3	3092.6	3187.3	3291.7	3398.9	3461.6	3458.8
7.5°	2723.6	2803.0	2889.3	2977.0	3087.0	3223.5	3383.6	3550.7	3635.6	3639.8
10°	2768.1	2853.1	2911.6	2985.4	3100.9	3272.2	3464.4	3664.9	3762.3	3781.8
12.5°	2908.8	2901.8	2897.6	2950.6	3089.8	3307.0	3542.3	3781.8	3891.8	3915.5
15°	3042.5	2899.0	2812.7	2848.9	3039.7	3329.3	3618.9	3909.9	4033.9	4058.9
17.5°	3067.5	2850.3	2690.2	2715.2	2960.3	3336.3	3692.7	4035.3	4168.9	4192.6
20°	2997.9	2787.6	2601.1	2566.2	2860.1	3318.2	3738.7	4139.7	4285.9	4311.0
22.5°	2910.2	2731.9	2534.2	2443.7	2737.5	3300.1	3790.2	4249.7	4418.2	4440.5
25°	2818.3	2660.9	2471.6	2333.7	2598.3	3288.9	3876.5	4394.5	4597.8	4624.3
27.5°	2720.8	2574.6	2417.3	2280.8	2470.2	3302.8	3999.1	4628.4	4859.6	4897.2
30°	2616.4	2488.3	2382.4	2262.7	2382.4	3315.4	4134.1	4867.9	5139.5	5192.4
32.5°	2507.8	2408.9	2346.2	2271.1	2328.1	3286.1	4252.5	5136.7	5473.6	5519.6
35°	2399.2	2328.1	2300.3	2286.4	2255.7	3178.9	4348.6	5408.2	5855.2	5895.5
37.5°	2297.5	2244.6	2236.2	2251.6	2144.3	3003.5	4460.0	5753.5	6229.7	6291.0
40°	2202.8	2154.1	2152.7	2149.9	2021.8	2764.0	4610.3	6104.4	6598.7	6626.6
42.5°	2115.1	2053.8	2065.0	2031.6	1921.6	2505.0	4752.4	6403.8	6942.7	6962.1
45°	2037.1	1956.4	1968.9	1927.1	1874.2	2233.5	4877.7	6757.5	7378.5	7391.0
47.5°	1961.9	1875.6	1840.8	1838.0	1865.9	1982.8	5000.2	7438.4	8060.8	8083.1
50°	1892.3	1799.0	1700.2	1761.4	1814.3	1794.8	5153.4	8168.0	8765.3	8759.8
52.5°	1825.5	1702.9	1562.3	1680.7	1680.7	1655.6	5110.2	8610.8	9347.4	9443.5
55°	1748.9	1548.4	1418.9	1545.6	1484.3	1530.3	4345.8	8755.6	9713.6	9850.0
57.5°	1597.1	1357.6	1244.8	1313.1	1221.2	1418.9	3121.8	8037.1	9091.2	9333.5
60°	1450.9	1217.0	1143.2	1130.7	1010.9	1157.1	2023.2	6292.4	7482.9	7605.5
62.5°	1279.6	1095.8	1033.2	937.1	813.2	842.4	1225.3	4141.1	5028.1	5055.9
65°	1150.1	992.8	873.1	758.9	665.6	611.3	724.1	1996.7	2513.3	2479.9
67.5°	987.2	850.8	736.6	654.4	577.9	509.6	481.8	593.2	671.2	648.9
70°	878.6	747.7	637.7	559.8	488.7	420.5	371.8	349.5	342.5	337.0
72.5°	757.5	643.3	529.1	453.9	387.1	324.4	279.9	253.4	246.5	240.9
75°	604.3	497.1	392.7	321.7	263.2	218.6	189.4	167.1	162.9	157.3
77.5°	399.6	318.9	233.9	190.8	156.0	132.3	112.8	98.9	96.1	93.3
80°	220.0	183.8	143.4	115.6	93.3	80.8	73.8	65.4	64.1	62.7
82.5°	130.9	110.0	82.2	65.4	54.3	48.7	44.6	40.4	39.0	37.6
85°	65.4	51.5	36.2	30.6	27.8	25.1	25.1	20.9	19.5	19.5
87.5°	16.7	13.9	8.4	7.0	7.0	7.0	5.6	4.2	4.2	2.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)