

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: P637545

Luminaire Tested: GWS-SA4D-722-U-SLL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637545
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-SA4D-722-U-SLL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14040.8 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

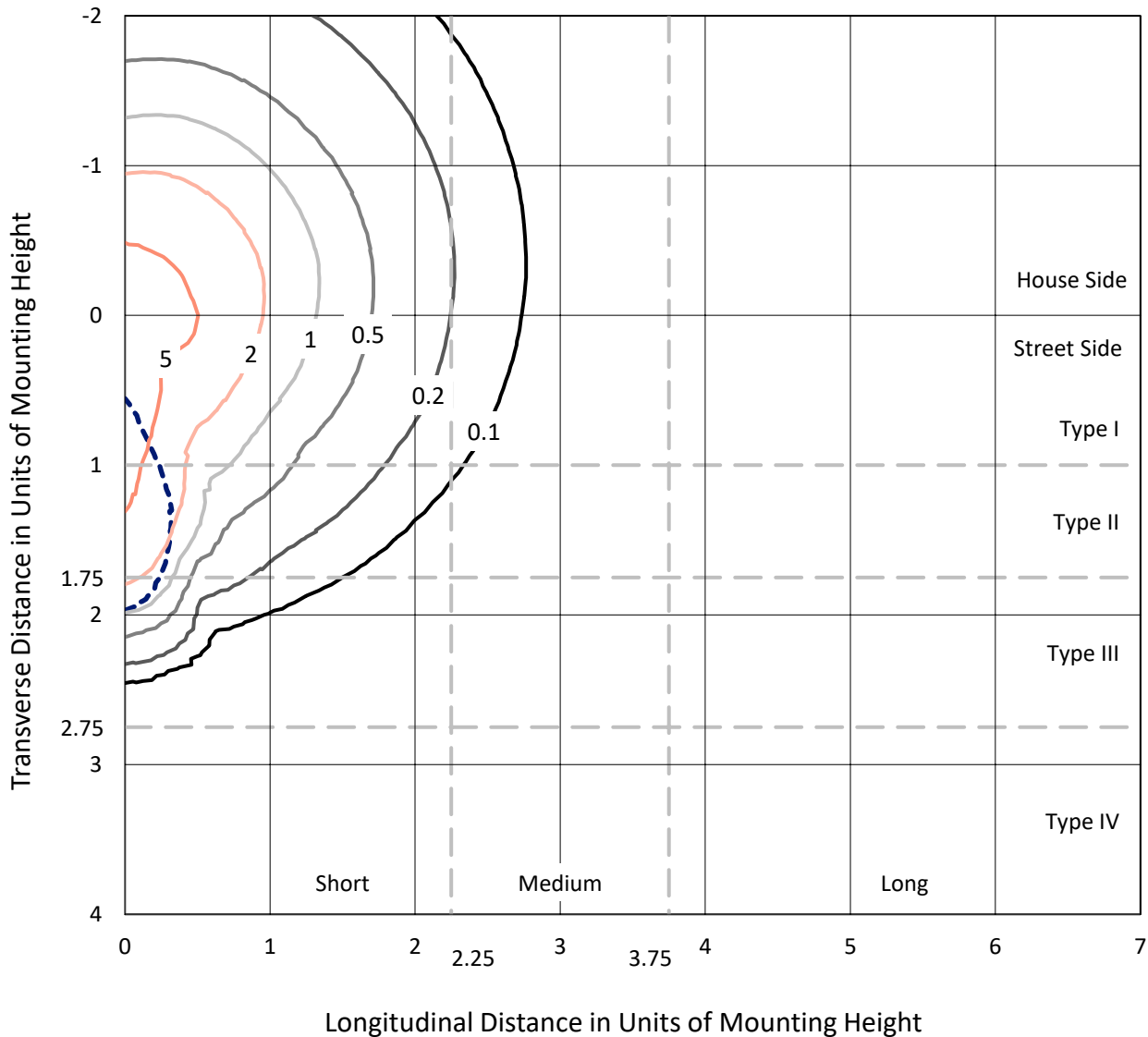
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

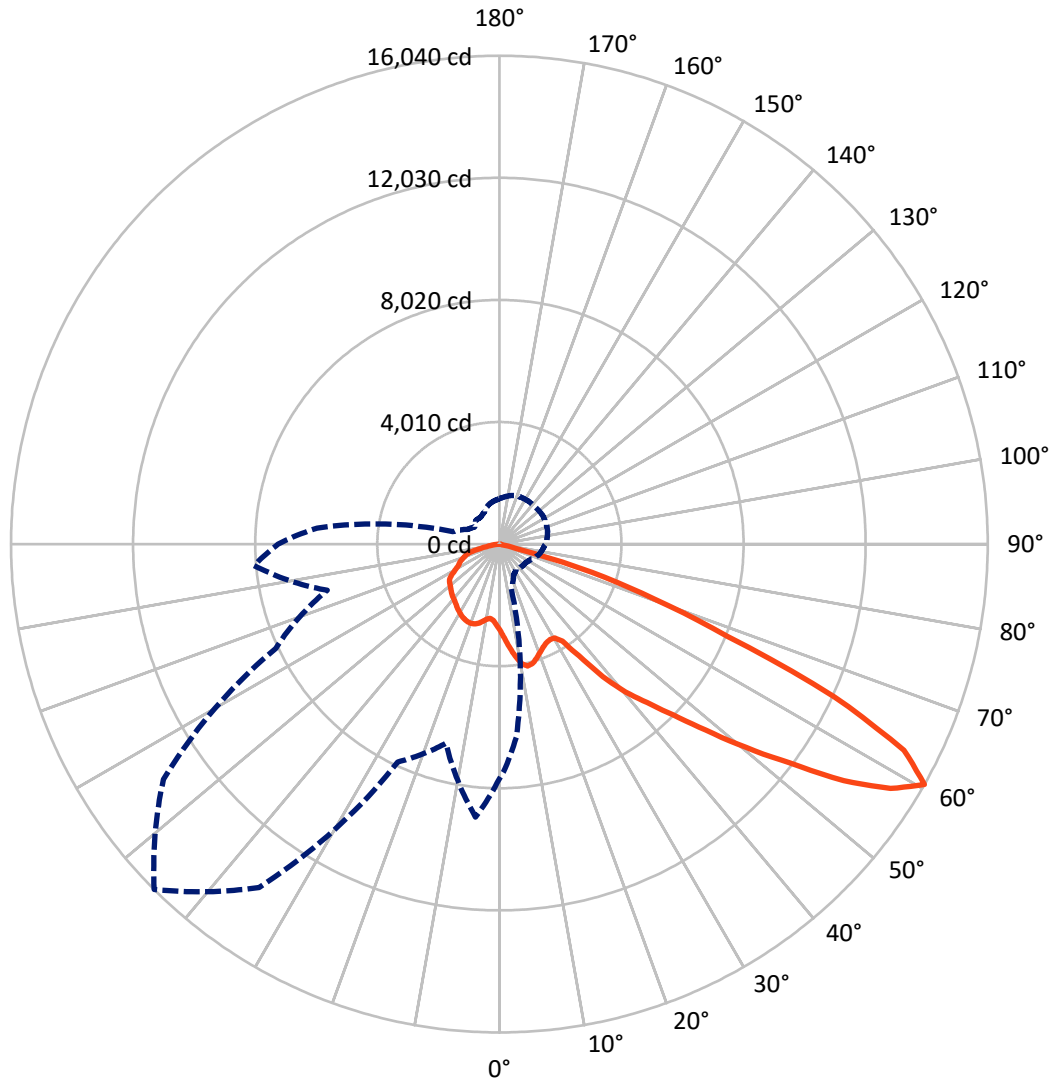
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.5 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	4803.2	0.0	4803.2
	% Fixture	34.2	0.0	34.2
Street Side	Lumens	9237.6	0.0	9237.6
	% Fixture	65.8	0.0	65.8
Total	Lumens	14040.8	0.0	14040.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.7	2.0
10°-20°	887.4	6.3
20°-30°	1445.3	10.3
30°-40°	2030.3	14.5
40°-50°	2778.2	19.8
50°-60°	3564.3	25.4
60°-70°	2400.1	17.1
70°-80°	600.0	4.3
80°-90°	58.5	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°	14040.8	100.0
0°-180°	14040.8	100.0

Coefficient of Utilization



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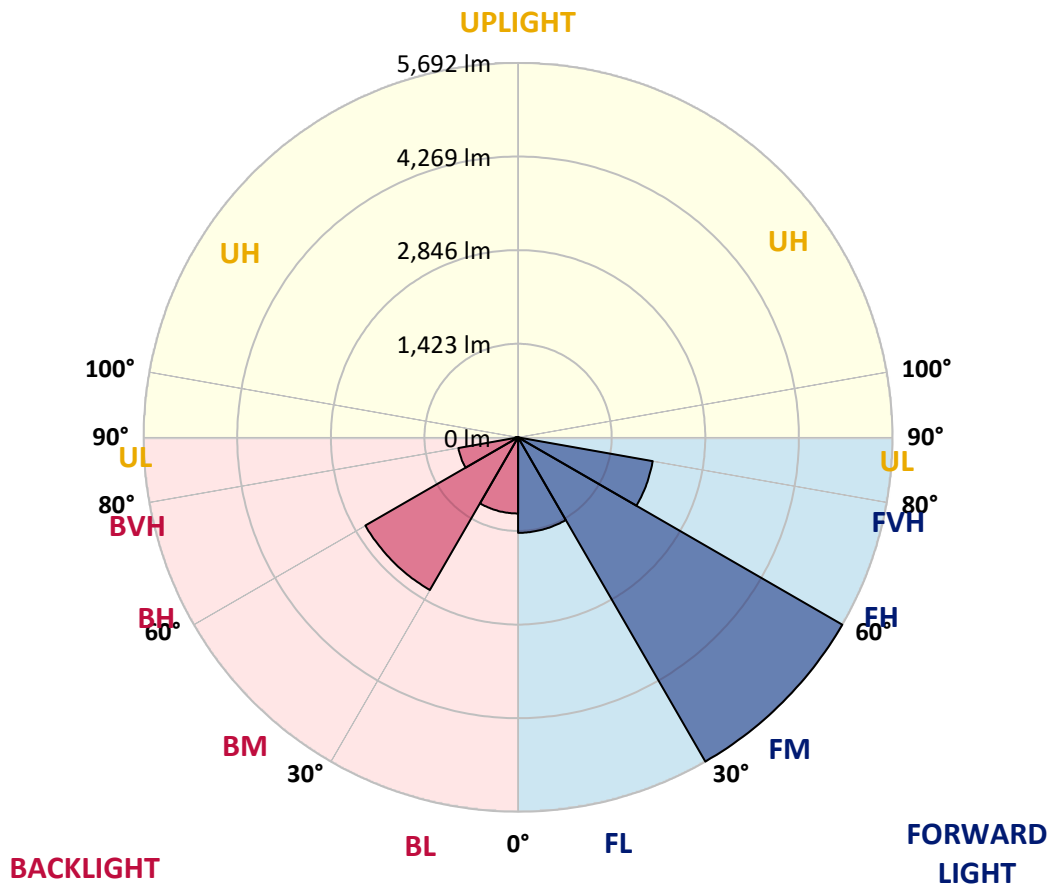
CATALOG NUMBER: GWS-SA4D-722-U-SLL-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1451.5	10.3			
FM (30°-60°)	5692.3	40.5			
FH (60°-80°)	2078.6	14.8			G2/5000
FVH (80°-90°)	15.2	0.1			G1/100
BL (0°-30°)	1157.9	8.2	B3/2500		
BM (30°-60°)	2680.6	19.1	B3/5000		
BH (60°-80°)	921.5	6.6	B2/1000		G2/1000
BVH (80°-90°)	43.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2831.9	2831.9	2831.9	2831.9	2831.9	2831.9	2831.9	2831.9	2831.9	2831.9	2831.9
2.5°	2996.1	2989.6	2983.2	2932.7	2919.8	2883.6	2857.7	2825.4	2778.9	2753.0	2731.0
5°	3183.6	3173.3	3138.3	3034.9	2967.7	2893.9	2833.2	2765.9	2694.8	2648.3	2612.1
7.5°	3360.8	3358.2	3298.7	3128.0	3019.4	2913.3	2830.6	2732.3	2630.2	2560.3	2513.8
10°	3525.0	3505.6	3434.5	3212.1	3069.8	2948.3	2859.0	2750.4	2631.5	2537.1	2475.0
12.5°	3669.8	3645.2	3547.0	3289.6	3113.8	2963.8	2866.8	2777.6	2698.7	2619.8	2548.7
15°	3788.8	3759.0	3659.5	3362.0	3152.6	2954.7	2818.9	2749.1	2776.3	2811.2	2732.3
17.5°	3900.0	3868.9	3747.4	3415.1	3164.2	2899.1	2701.3	2671.5	2808.6	2967.7	2931.4
20°	3993.1	3958.2	3817.2	3440.9	3143.5	2793.1	2548.7	2600.4	2781.4	2971.5	3029.7
22.5°	4093.9	4065.5	3896.1	3478.4	3117.7	2647.0	2420.7	2547.4	2734.9	2901.7	2989.6
25°	4255.6	4220.7	4018.9	3544.4	3104.7	2509.9	2328.9	2495.7	2670.2	2821.5	2890.1
27.5°	4489.6	4425.0	4187.0	3659.5	3118.9	2380.6	2270.7	2432.3	2595.2	2724.6	2780.2
30°	4744.4	4666.8	4373.3	3778.4	3139.6	2301.7	2239.6	2359.9	2480.2	2609.5	2670.2
32.5°	5045.7	4977.1	4572.4	3867.6	3095.7	2265.5	2216.4	2281.0	2376.7	2480.2	2530.6
35°	5405.1	5282.3	4789.6	3940.1	2953.4	2212.5	2195.7	2194.4	2244.8	2345.7	2402.6
37.5°	5791.8	5659.9	5057.3	4017.6	2732.3	2128.4	2146.5	2092.2	2138.8	2219.0	2283.6
40°	6108.6	5970.2	5327.6	4123.7	2455.6	1996.5	2037.9	1979.7	2008.2	2090.9	2163.3
42.5°	6418.9	6271.5	5579.7	4243.9	2187.9	1867.2	1887.9	1865.9	1875.0	1961.6	2062.5
45°	6826.3	6660.7	5890.1	4329.3	1947.4	1765.1	1745.7	1708.2	1756.0	1868.5	1975.9
47.5°	7506.4	7308.6	6398.2	4384.9	1772.8	1706.9	1617.7	1595.7	1655.2	1780.6	1891.8
50°	8301.7	8131.0	7210.3	4382.3	1642.2	1657.7	1493.5	1474.1	1572.4	1699.1	1816.8
52.5°	8953.4	8780.1	7904.7	4253.0	1534.9	1553.0	1421.1	1366.8	1501.3	1619.0	1736.6
55°	9479.7	9284.4	8224.1	3712.5	1399.1	1386.2	1342.2	1242.7	1412.1	1538.8	1648.7
57.5°	9196.5	8963.7	7837.5	2822.8	1259.5	1178.0	1206.5	1132.8	1290.5	1449.6	1555.6
60°	7710.7	7501.2	6367.2	1502.6	1108.2	984.0	1043.5	1055.2	1157.3	1342.2	1450.9
62.5°	5296.5	5143.9	4315.1	911.6	874.1	790.1	883.2	967.2	1043.5	1200.0	1294.4
65°	2591.4	2546.1	2158.2	584.5	611.6	638.8	731.9	834.0	946.5	1083.6	1183.2
67.5°	713.8	719.0	654.3	456.5	482.3	557.3	631.0	712.5	825.0	951.7	1052.6
70°	314.2	319.4	329.7	351.7	400.9	469.4	545.7	629.7	733.2	839.2	936.2
72.5°	218.5	223.7	239.2	267.7	311.6	376.3	448.7	528.9	636.2	725.4	805.6
75°	134.5	138.4	152.6	177.2	206.9	256.0	327.2	400.9	495.3	576.7	647.8
77.5°	71.1	68.5	77.6	94.4	120.3	146.1	194.0	240.5	307.8	373.7	433.2
80°	38.8	37.5	42.7	51.7	59.5	80.2	112.5	143.5	182.3	219.8	252.2
82.5°	16.8	15.5	16.8	22.0	27.2	38.8	56.9	78.9	100.9	126.7	147.4
85°	0.0	0.0	0.0	1.3	6.5	10.3	19.4	28.4	41.4	56.9	69.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	11.6
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°	2831.9	2831.9	2831.9	2831.9	2831.9	2831.9	2831.9	2831.9	2831.9	2831.9	2831.9
2.5°	2718.1	2685.8	2683.2	2657.3	2659.9	2661.2	2635.3	2625.0	2634.0	2644.4	2639.2
5°	2599.1	2565.5	2551.3	2526.7	2524.1	2512.5	2502.1	2489.2	2498.3	2507.3	2512.5
7.5°	2495.7	2473.7	2464.6	2458.2	2460.8	2455.6	2434.9	2423.3	2422.0	2425.8	2431.0
10°	2462.1	2444.0	2455.6	2473.7	2486.6	2495.7	2473.7	2454.3	2436.2	2428.4	2428.4
12.5°	2534.5	2511.2	2534.5	2553.9	2579.7	2586.2	2561.6	2540.9	2534.5	2542.2	2557.7
15°	2694.8	2640.5	2639.2	2650.8	2671.5	2681.9	2658.6	2648.3	2648.3	2697.4	2736.2
17.5°	2855.2	2765.9	2728.4	2722.0	2734.9	2738.8	2719.4	2710.3	2733.6	2829.3	2901.7
20°	2967.7	2859.0	2777.6	2762.1	2765.9	2767.2	2751.7	2745.2	2778.9	2895.2	2956.0
22.5°	2956.0	2875.8	2776.3	2756.9	2763.3	2760.8	2746.5	2743.9	2771.1	2872.0	2900.4
25°	2875.8	2813.8	2729.7	2716.8	2727.1	2725.8	2711.6	2705.2	2716.8	2784.0	2786.6
27.5°	2784.0	2729.7	2657.3	2653.4	2670.2	2679.3	2654.7	2635.3	2631.5	2676.7	2666.4
30°	2674.1	2634.0	2575.8	2578.4	2609.5	2614.6	2584.9	2556.5	2548.7	2573.3	2559.0
32.5°	2543.5	2530.6	2499.6	2506.0	2535.8	2546.1	2515.1	2485.3	2476.3	2484.0	2454.3
35°	2432.3	2427.1	2429.7	2441.4	2467.2	2475.0	2449.1	2425.8	2412.9	2385.8	2347.0
37.5°	2317.2	2331.5	2369.0	2390.9	2405.2	2402.6	2388.3	2371.5	2350.8	2300.4	2252.6
40°	2209.9	2246.1	2313.3	2337.9	2343.1	2344.4	2334.0	2319.8	2294.0	2226.7	2172.4
42.5°	2127.1	2167.2	2256.5	2294.0	2296.5	2299.1	2288.8	2277.1	2240.9	2151.7	2098.7
45°	2040.5	2093.5	2198.3	2243.5	2240.9	2239.6	2230.6	2225.4	2182.7	2079.3	2021.1
47.5°	1966.8	2028.9	2141.4	2180.2	2178.9	2177.6	2171.1	2171.1	2128.4	2015.9	1950.0
50°	1894.4	1965.5	2083.2	2115.5	2118.1	2115.5	2112.9	2116.8	2066.4	1946.1	1881.5
52.5°	1815.5	1895.7	2018.5	2048.3	2063.8	2070.2	2070.2	2061.2	2001.7	1876.3	1805.2
55°	1728.9	1805.2	1947.4	1987.5	2000.4	2012.1	2012.1	1994.0	1938.4	1811.6	1735.3
57.5°	1621.5	1688.8	1801.3	1841.4	1872.4	1880.2	1880.2	1850.4	1805.2	1683.6	1621.5
60°	1505.2	1563.4	1639.6	1682.3	1705.6	1690.1	1701.7	1694.0	1657.7	1545.2	1493.5
62.5°	1350.0	1409.5	1493.5	1537.5	1547.8	1532.3	1547.8	1546.5	1497.4	1396.5	1334.5
65°	1238.8	1297.0	1379.7	1436.6	1453.4	1449.6	1459.9	1444.4	1383.6	1287.9	1228.4
67.5°	1106.9	1169.0	1264.6	1328.0	1362.9	1366.8	1381.0	1348.7	1286.6	1181.9	1106.9
70°	981.5	1034.5	1108.2	1167.7	1216.8	1241.4	1244.0	1197.4	1119.8	1033.2	978.9
72.5°	849.6	903.9	993.1	1057.8	1119.8	1148.3	1148.3	1091.4	1007.3	911.6	853.4
75°	689.2	739.7	821.1	890.9	962.1	998.3	997.0	947.8	854.7	764.2	703.4
77.5°	466.8	504.3	556.0	609.0	619.4	647.8	662.1	600.0	548.3	499.1	444.8
80°	271.6	294.8	323.3	353.0	359.5	368.5	345.3	322.0	294.8	262.5	237.9
82.5°	159.1	174.6	188.8	212.1	215.9	218.5	197.8	187.5	165.5	146.1	130.6
85°	77.6	82.8	95.7	107.3	102.2	99.6	90.5	80.2	71.1	63.4	55.6
87.5°	15.5	15.5	23.3	22.0	18.1	15.5	9.1	11.6	2.6	2.6	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°	2831.9	2831.9	2831.9	2831.9	2831.9	2831.9	2831.9	2831.9	2831.9	2831.9	2831.9
2.5°	2656.0	2678.0	2705.2	2741.4	2782.7	2826.7	2869.4	2901.7	2934.0	2981.9	2974.1
5°	2520.2	2557.7	2600.4	2656.0	2723.3	2799.6	2884.9	2970.2	3062.1	3139.6	3173.3
7.5°	2441.4	2482.7	2533.2	2605.6	2692.2	2785.3	2905.6	3043.9	3192.7	3294.8	3358.2
10°	2441.4	2494.4	2560.3	2630.2	2706.4	2802.1	2950.8	3124.1	3315.5	3450.0	3523.7
12.5°	2582.3	2635.3	2649.6	2647.0	2689.6	2795.7	2987.1	3208.2	3437.0	3579.3	3669.8
15°	2802.1	2820.2	2712.9	2614.6	2621.1	2749.1	3003.9	3275.4	3541.8	3712.5	3810.8
17.5°	2949.6	2901.7	2710.3	2538.3	2502.1	2670.2	3003.9	3340.1	3653.0	3845.7	3937.5
20°	2961.2	2842.2	2644.4	2464.6	2371.5	2565.5	2983.2	3389.2	3760.3	3973.7	4072.0
22.5°	2859.0	2741.4	2574.6	2401.3	2264.2	2438.8	2949.6	3426.7	3852.1	4093.9	4215.5
25°	2742.7	2644.4	2503.4	2336.6	2190.5	2310.8	2918.5	3490.1	3980.1	4256.9	4379.7
27.5°	2628.9	2546.1	2418.1	2282.3	2149.1	2199.6	2899.1	3583.2	4132.7	4488.3	4594.4
30°	2517.7	2442.7	2326.3	2230.6	2127.1	2127.1	2882.3	3690.5	4334.5	4748.2	4854.3
32.5°	2405.2	2334.0	2239.6	2180.2	2114.2	2098.7	2835.8	3791.4	4542.6	5032.7	5141.3
35°	2300.4	2229.3	2156.9	2132.3	2107.7	2076.7	2720.7	3870.2	4745.7	5365.1	5458.2
37.5°	2202.1	2133.6	2079.3	2072.8	2075.4	2017.2	2539.6	3936.2	4999.1	5705.1	5754.3
40°	2116.8	2040.5	1997.8	1996.5	2009.5	1921.5	2310.8	4030.6	5288.8	5993.5	5972.8
42.5°	2040.5	1960.3	1908.6	1920.2	1912.5	1825.9	2087.1	4117.2	5540.9	6263.8	6222.4
45°	1965.5	1887.9	1815.5	1832.3	1823.3	1766.4	1897.0	4180.6	5820.2	6588.3	6593.5
47.5°	1893.1	1816.8	1744.4	1723.7	1722.4	1748.3	1750.9	4201.3	6275.4	7110.7	6993.1
50°	1825.9	1749.6	1674.6	1604.7	1631.9	1712.1	1642.2	4185.8	6956.9	7687.5	7359.0
52.5°	1756.0	1683.6	1600.9	1475.4	1546.5	1625.4	1545.2	4130.1	7373.2	8196.9	8000.4
55°	1675.9	1607.3	1494.8	1342.2	1428.9	1445.7	1445.7	3592.2	7550.4	8701.2	8822.8
57.5°	1568.5	1478.0	1299.6	1176.7	1254.3	1189.6	1339.6	2513.8	7258.1	8542.2	9014.2
60°	1447.0	1350.0	1161.2	1073.3	1096.5	982.8	1141.8	1576.3	6015.5	7268.5	8085.7
62.5°	1286.6	1197.4	1040.9	972.4	924.6	801.7	919.4	997.0	4123.7	5397.4	5954.7
65°	1179.3	1081.0	941.4	850.9	752.6	645.3	610.3	654.3	2217.7	3020.7	3397.0
67.5°	1052.6	955.6	823.7	709.9	631.0	553.4	492.7	477.2	760.3	1006.0	1088.8
70°	932.3	839.2	729.3	623.3	544.4	468.1	408.6	365.9	351.7	349.1	344.0
72.5°	809.5	722.8	631.0	532.8	446.1	376.3	323.3	274.1	253.4	247.0	240.5
75°	663.4	594.8	503.0	397.0	327.2	262.5	221.1	188.8	170.7	164.2	156.5
77.5°	426.7	395.7	315.5	256.0	197.8	156.5	134.5	113.8	102.2	99.6	93.1
80°	227.6	212.1	174.6	147.4	117.7	95.7	84.1	72.4	65.9	63.4	60.8
82.5°	126.7	115.1	97.0	85.3	68.5	58.2	51.7	46.6	42.7	41.4	40.1
85°	56.9	49.1	38.8	36.2	32.3	29.7	28.4	25.9	24.6	23.3	22.0
87.5°	2.6	5.2	6.5	5.2	5.2	7.8	9.1	9.1	7.8	7.8	6.5
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: P637545

CATALOG NUMBER: GWS-SA4D-722-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2831.9	2831.9	2831.9	2831.9	2831.9	2831.9	2831.9	2831.9	2831.9	2831.9
2.5°	3022.0	3060.8	3064.6	3077.6	3060.8	3056.9	3029.7	3014.2	3000.0	2996.1
5°	3257.3	3334.9	3365.9	3387.9	3367.2	3356.9	3297.4	3235.3	3200.4	3183.6
7.5°	3499.1	3615.5	3676.3	3703.4	3706.0	3659.5	3557.3	3440.9	3382.7	3360.8
10°	3715.1	3858.6	3938.8	3990.5	3972.4	3915.5	3775.8	3618.1	3544.4	3525.0
12.5°	3875.4	4012.5	4074.5	4108.2	4106.9	4075.8	3943.9	3773.3	3689.2	3669.8
15°	3978.9	4060.3	4064.2	4072.0	4093.9	4135.3	4066.8	3909.0	3815.9	3788.8
17.5°	4060.3	4028.0	3967.2	3946.5	3995.7	4110.8	4152.1	4024.1	3923.3	3900.0
20°	4112.0	3949.1	3841.8	3801.7	3858.6	4046.1	4203.9	4127.6	4022.8	3993.1
22.5°	4152.1	3875.4	3702.1	3675.0	3734.5	3976.3	4256.9	4250.4	4135.3	4093.9
25°	4215.5	3826.3	3603.9	3584.5	3640.1	3942.6	4328.0	4417.2	4315.1	4255.6
27.5°	4315.1	3821.1	3553.4	3547.0	3623.3	3972.4	4430.1	4661.6	4533.6	4489.6
30°	4453.4	3870.2	3565.1	3578.0	3671.1	4079.7	4589.2	4940.9	4812.9	4744.4
32.5°	4652.6	4002.1	3742.2	3797.8	3866.4	4251.7	4822.0	5243.5	5146.5	5045.7
35°	4915.1	4364.2	4265.9	4502.6	4437.9	4628.0	5102.6	5610.7	5493.1	5405.1
37.5°	5265.5	5106.4	5197.0	5522.8	5366.3	5339.2	5445.2	5944.4	5879.7	5791.8
40°	5756.9	5789.2	5956.0	6384.0	6157.7	5983.2	5865.5	6195.2	6217.2	6108.6
42.5°	6082.7	6231.4	6633.6	7119.8	6808.2	6390.5	6217.2	6515.9	6517.2	6418.9
45°	6204.3	6593.5	7434.0	7993.9	7472.8	6623.2	6411.2	6951.7	6938.8	6826.3
47.5°	6160.3	6898.7	8265.5	9121.5	8326.2	6788.8	6384.0	7572.4	7677.1	7506.4
50°	6068.5	7205.1	9236.6	10502.5	9373.7	6964.6	6342.6	8260.3	8433.6	8301.7
52.5°	6161.6	7546.5	10384.9	11930.1	10687.4	7245.2	6621.9	9143.5	9112.4	8953.4
55°	6456.4	7950.0	11780.1	13723.6	12130.5	7719.8	7339.6	9985.3	9669.8	9479.7
57.5°	6442.2	8238.3	13003.4	15142.2	13386.1	8109.0	7589.2	10074.5	9437.0	9196.5
60°	5847.4	8106.4	13468.9	16039.6	13765.0	7894.4	6768.1	8998.7	7962.9	7710.7
62.5°	4364.2	7193.5	12566.3	14915.9	12693.0	6818.5	5089.6	6459.0	5721.9	5296.5
65°	2791.8	5627.6	10564.6	12084.0	10462.4	5215.1	3031.0	3462.9	2712.9	2591.4
67.5°	1188.4	3972.4	8212.5	8076.7	7827.1	3378.9	1170.3	975.0	726.7	713.8
70°	393.1	2702.6	5062.5	5387.0	4674.5	2327.6	386.6	327.2	325.9	314.2
72.5°	257.3	1450.9	2850.0	3173.3	3007.7	1339.6	234.1	218.5	223.7	218.5
75°	153.9	315.5	479.7	623.3	479.7	225.0	140.9	138.4	140.9	134.5
77.5°	90.5	87.9	85.3	85.3	84.1	77.6	71.1	68.5	69.8	71.1
80°	58.2	55.6	53.0	51.7	45.3	42.7	40.1	37.5	37.5	38.8
82.5°	37.5	34.9	32.3	28.4	23.3	19.4	18.1	15.5	15.5	16.8
85°	19.4	15.5	11.6	9.1	5.2	2.6	0.0	0.0	0.0	0.0
87.5°	3.9	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)