

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: P635290

Luminaire Tested: GWS-SA3D-740-U-SLL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635290
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-SA3D-740-U-SLL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13698 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

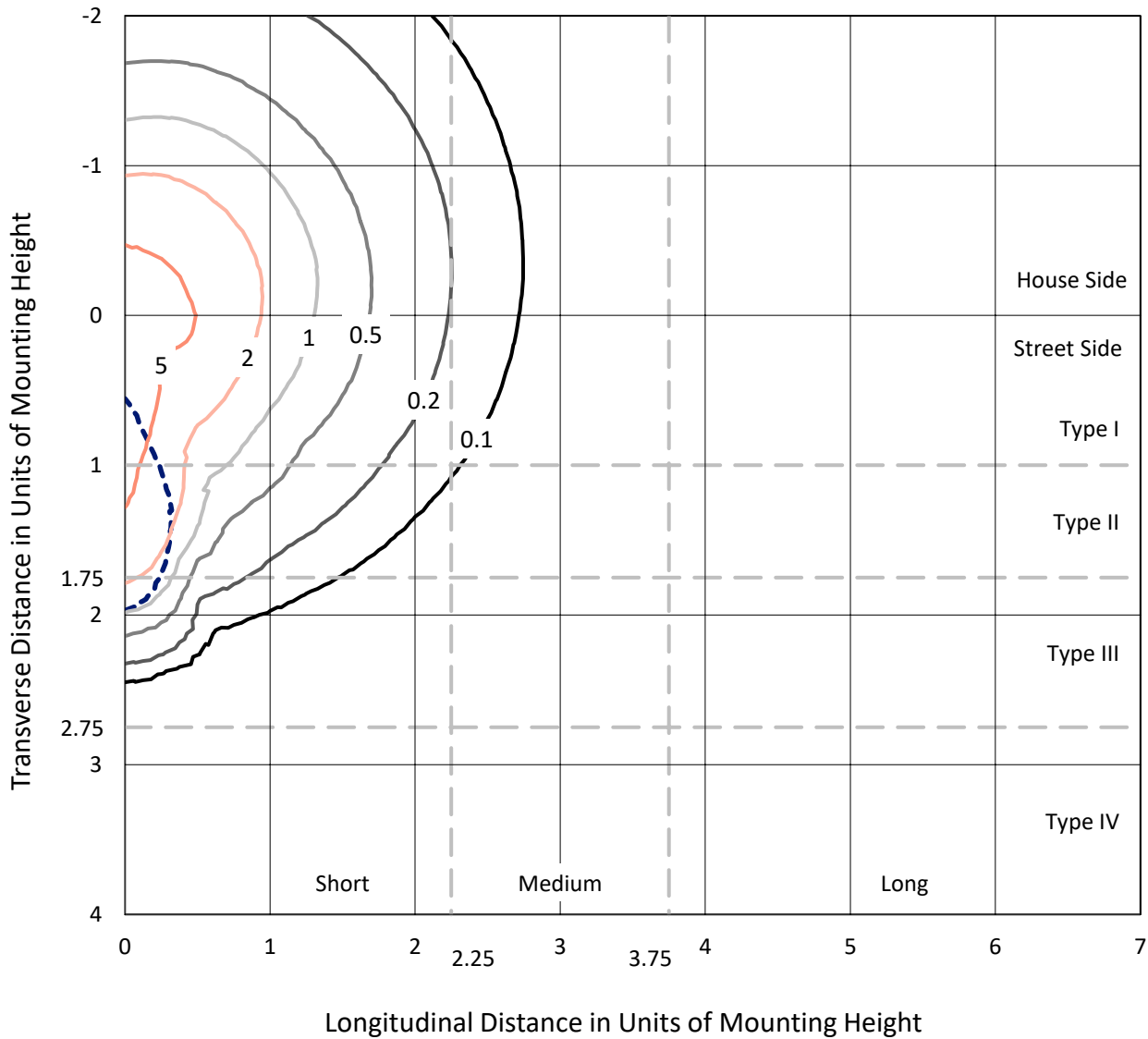
Input Watts (W): 120.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P635290
 CATALOG NUMBER: GWS-SA3D-740-U-SLL-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

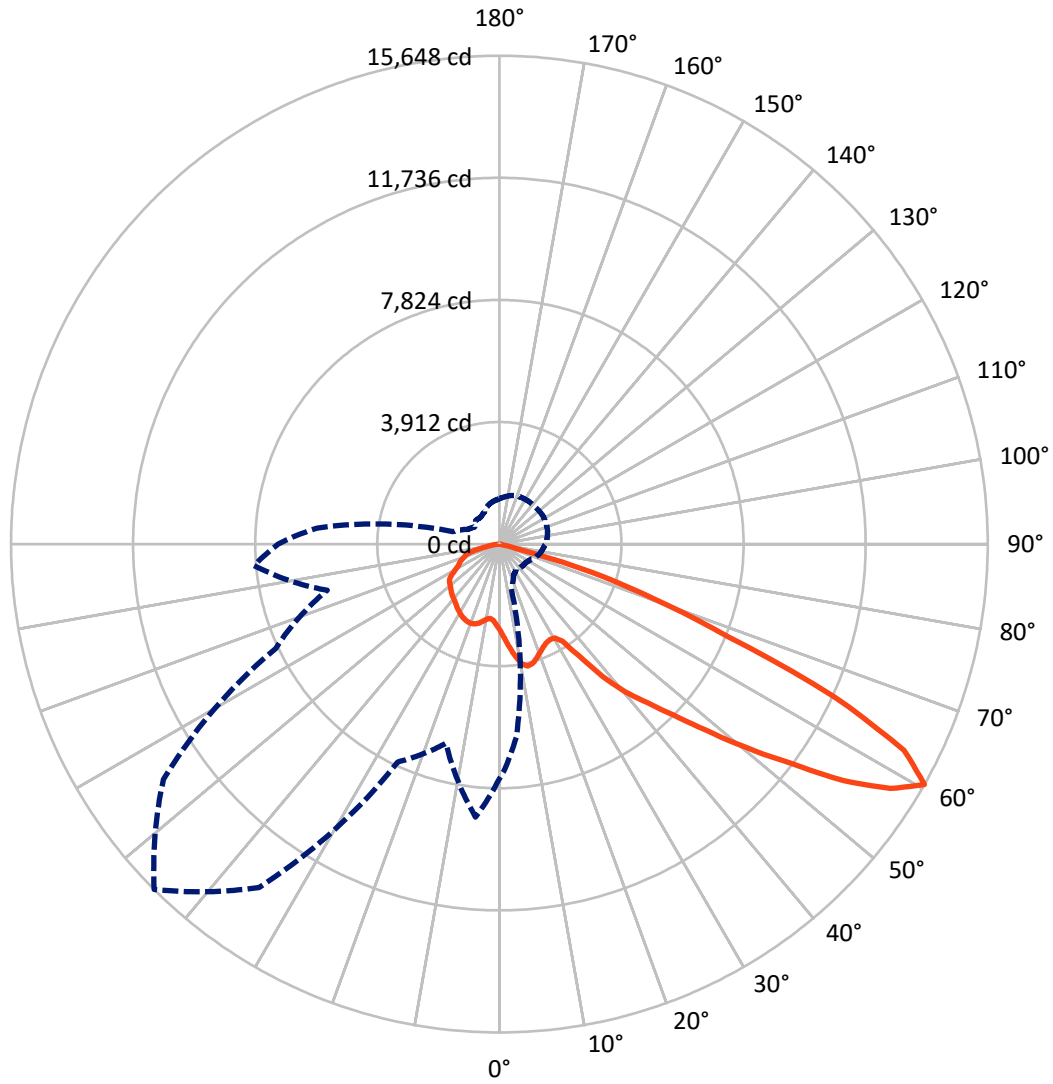
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.3 fc
 Type III - Short - N/A

REPORT NUMBER: P635290
CATALOG NUMBER: GWS-SA3D-740-U-SLL-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

REPORT NUMBER: P635290

CATALOG NUMBER: GWS-SA3D-740-U-SLL-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4686.0	0.0	4686.0
	% Fixture	34.2	0.0	34.2
Street Side	Lumens	9012.0	0.0	9012.0
	% Fixture	65.8	0.0	65.8
Total	Lumens	13698.0	0.0	13698.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.9	2.0
10°-20°	865.8	6.3
20°-30°	1410.0	10.3
30°-40°	1980.7	14.5
40°-50°	2710.4	19.8
50°-60°	3477.3	25.4
60°-70°	2341.5	17.1
70°-80°	585.4	4.3
80°-90°	57.1	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°	13698.0	100.0
0°-180°	13698.0	100.0

Coefficient of Utilization



REPORT NUMBER: P635290

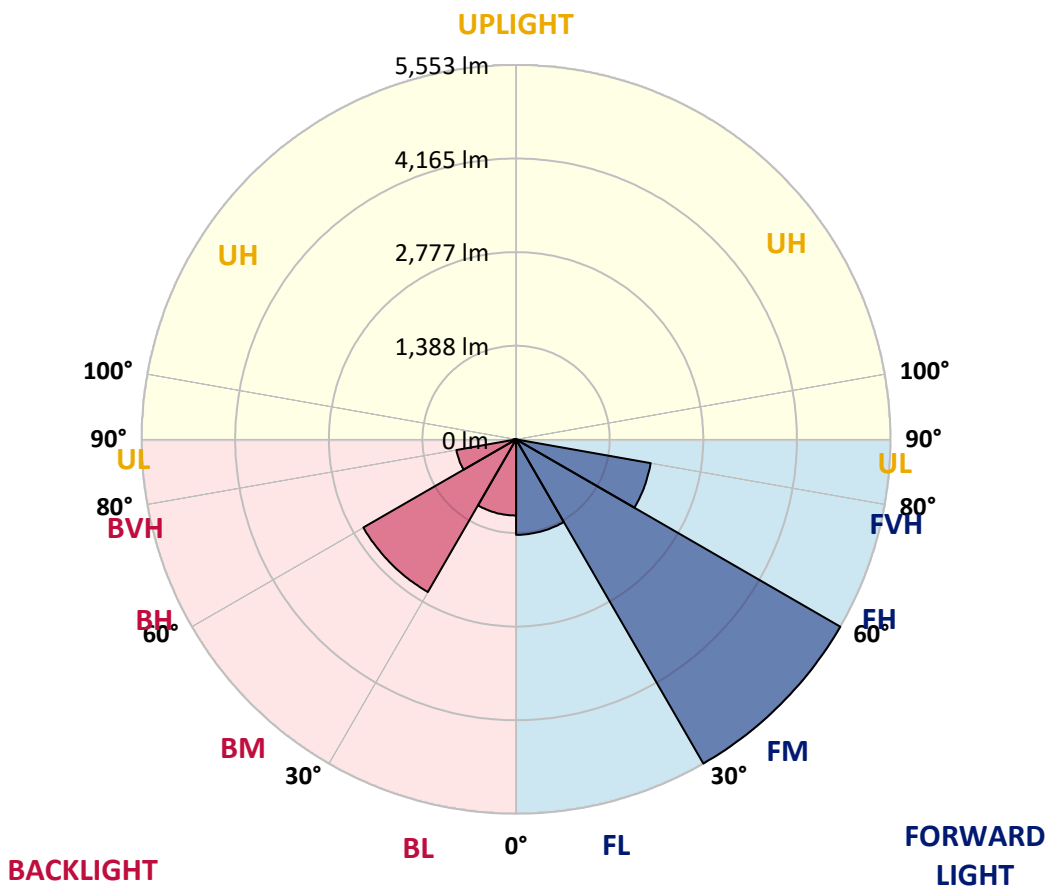
CATALOG NUMBER: GWS-SA3D-740-U-SLL-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1416.1	10.3			
FM (30°-60°)	5553.3	40.5			
FH (60°-80°)	2027.9	14.8			G2/5000
FVH (80°-90°)	14.8	0.1			G1/100
BL (0°-30°)	1129.6	8.2	B3/2500		
BM (30°-60°)	2615.1	19.1	B3/5000		
BH (60°-80°)	899.0	6.6	B2/1000		G2/1000
BVH (80°-90°)	42.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type III Short





REPORT NUMBER: P635290

CATALOG NUMBER: GWS-SA3D-740-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2762.7	2762.7	2762.7	2762.7	2762.7	2762.7	2762.7	2762.7	2762.7	2762.7	2762.7
2.5°	2923.0	2916.6	2910.3	2861.1	2848.5	2813.2	2788.0	2756.4	2711.0	2685.8	2664.3
5°	3105.9	3095.8	3061.7	2960.8	2895.2	2823.3	2764.0	2698.4	2629.0	2583.6	2548.3
7.5°	3278.7	3276.2	3218.2	3051.6	2945.7	2842.2	2761.5	2665.6	2565.9	2497.8	2452.4
10°	3438.9	3420.0	3350.6	3133.6	2994.9	2876.3	2789.2	2683.3	2567.2	2475.1	2414.6
12.5°	3580.2	3556.2	3460.4	3209.3	3037.8	2891.4	2796.8	2709.8	2632.8	2555.9	2486.5
15°	3696.3	3667.3	3570.1	3280.0	3075.6	2882.6	2750.1	2682.0	2708.5	2742.6	2665.6
17.5°	3804.8	3774.5	3655.9	3331.7	3087.0	2828.3	2635.3	2606.3	2740.0	2895.2	2859.9
20°	3895.6	3861.5	3724.0	3356.9	3066.8	2724.9	2486.5	2536.9	2713.5	2899.0	2955.8
22.5°	3994.0	3966.2	3801.0	3393.5	3041.5	2582.3	2361.6	2485.2	2668.1	2830.9	2916.6
25°	4151.7	4117.6	3920.8	3457.8	3028.9	2448.6	2272.0	2434.7	2605.1	2752.6	2819.5
27.5°	4380.0	4316.9	4084.8	3570.1	3042.8	2322.5	2215.2	2372.9	2531.9	2658.0	2712.3
30°	4628.5	4552.8	4266.5	3686.2	3063.0	2245.5	2185.0	2302.3	2419.6	2545.8	2605.1
32.5°	4922.5	4855.6	4460.8	3773.2	3020.1	2210.2	2162.3	2225.3	2318.7	2419.6	2468.8
35°	5273.2	5153.3	4672.7	3843.9	2881.3	2158.5	2142.1	2140.8	2190.0	2288.4	2343.9
37.5°	5650.4	5521.7	4933.8	3919.6	2665.6	2076.5	2094.1	2041.1	2086.6	2164.8	2227.9
40°	5959.4	5824.5	5197.5	4023.0	2395.6	1947.8	1988.2	1931.4	1959.1	2039.9	2110.5
42.5°	6262.2	6118.4	5443.5	4140.3	2134.5	1821.6	1841.8	1820.4	1829.2	1913.7	2012.1
45°	6659.6	6498.1	5746.2	4223.6	1899.9	1722.0	1703.1	1666.5	1713.2	1822.9	1927.6
47.5°	7323.2	7130.1	6242.0	4277.8	1729.6	1665.2	1578.2	1556.7	1614.8	1737.1	1845.6
50°	8099.0	7932.5	7034.3	4275.3	1602.1	1617.3	1457.1	1438.1	1534.0	1657.6	1772.4
52.5°	8734.8	8565.8	7711.7	4149.2	1497.4	1515.1	1386.4	1333.4	1464.6	1579.4	1694.2
55°	9248.2	9057.8	8023.3	3621.8	1365.0	1352.4	1309.5	1212.3	1377.6	1501.2	1608.4
57.5°	8972.0	8744.9	7646.1	2753.9	1228.7	1149.2	1177.0	1105.1	1259.0	1414.2	1517.6
60°	7522.5	7318.1	6211.8	1465.9	1081.1	960.0	1018.1	1029.4	1129.1	1309.5	1415.4
62.5°	5167.2	5018.3	4209.7	889.4	852.8	770.8	861.6	943.6	1018.1	1170.7	1262.8
65°	2528.1	2483.9	2105.5	570.2	596.7	623.2	714.0	813.7	923.4	1057.2	1154.3
67.5°	696.4	701.4	638.3	445.3	470.5	543.7	615.6	695.1	804.9	928.5	1026.9
70°	306.6	311.6	321.7	343.1	391.1	457.9	532.4	614.4	715.3	818.7	913.3
72.5°	213.2	218.2	233.4	261.1	304.0	367.1	437.7	516.0	620.7	707.7	785.9
75°	131.2	135.0	148.9	172.8	201.8	249.8	319.2	391.1	483.2	562.6	632.0
77.5°	69.4	66.9	75.7	92.1	117.3	142.6	189.2	234.6	300.2	364.6	422.6
80°	37.8	36.6	41.6	50.5	58.0	78.2	109.8	140.0	177.9	214.5	246.0
82.5°	16.4	15.1	16.4	21.4	26.5	37.8	55.5	77.0	98.4	123.6	143.8
85°	0.0	0.0	0.0	1.3	6.3	10.1	18.9	27.8	40.4	55.5	68.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	11.4
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: P635290

CATALOG NUMBER: GWS-SA3D-740-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2762.7	2762.7	2762.7	2762.7	2762.7	2762.7	2762.7	2762.7	2762.7	2762.7	2762.7
2.5°	2651.7	2620.2	2617.7	2592.4	2595.0	2596.2	2571.0	2560.9	2569.7	2579.8	2574.8
5°	2535.7	2502.9	2489.0	2465.0	2462.5	2451.1	2441.1	2428.4	2437.3	2446.1	2451.1
7.5°	2434.7	2413.3	2404.5	2398.2	2400.7	2395.6	2375.5	2364.1	2362.8	2366.6	2371.7
10°	2401.9	2384.3	2395.6	2413.3	2425.9	2434.7	2413.3	2394.4	2376.7	2369.1	2369.1
12.5°	2472.6	2449.9	2472.6	2491.5	2516.7	2523.1	2499.1	2478.9	2472.6	2480.2	2495.3
15°	2629.0	2576.0	2574.8	2586.1	2606.3	2616.4	2593.7	2583.6	2583.6	2631.5	2669.4
17.5°	2785.4	2698.4	2661.8	2655.5	2668.1	2671.9	2653.0	2644.2	2666.9	2760.2	2830.9
20°	2895.2	2789.2	2709.8	2694.6	2698.4	2699.7	2684.5	2678.2	2711.0	2824.6	2883.8
22.5°	2883.8	2805.6	2708.5	2689.6	2695.9	2693.4	2679.5	2677.0	2703.4	2801.8	2829.6
25°	2805.6	2745.1	2663.1	2650.5	2660.6	2659.3	2645.4	2639.1	2650.5	2716.1	2718.6
27.5°	2716.1	2663.1	2592.4	2588.7	2605.1	2613.9	2589.9	2571.0	2567.2	2611.4	2601.3
30°	2608.8	2569.7	2513.0	2515.5	2545.8	2550.8	2521.8	2494.0	2486.5	2510.4	2496.6
32.5°	2481.4	2468.8	2438.5	2444.8	2473.9	2483.9	2453.7	2424.7	2415.8	2423.4	2394.4
35°	2372.9	2367.9	2370.4	2381.8	2407.0	2414.6	2389.3	2366.6	2354.0	2327.5	2289.7
37.5°	2260.7	2274.5	2311.1	2332.6	2346.4	2343.9	2330.0	2313.6	2293.5	2244.3	2197.6
40°	2155.9	2191.3	2256.9	2280.8	2285.9	2287.1	2277.1	2263.2	2237.9	2172.3	2119.4
42.5°	2075.2	2114.3	2201.4	2237.9	2240.5	2243.0	2232.9	2221.5	2186.2	2099.2	2047.5
45°	1990.7	2042.4	2144.6	2188.7	2186.2	2185.0	2176.1	2171.1	2129.5	2028.5	1971.8
47.5°	1918.8	1979.3	2089.1	2126.9	2125.7	2124.4	2118.1	2118.1	2076.5	1966.7	1902.4
50°	1848.1	1917.5	2032.3	2063.9	2066.4	2063.9	2061.3	2065.1	2015.9	1898.6	1835.5
52.5°	1771.2	1849.4	1969.2	1998.3	2013.4	2019.7	2019.7	2010.9	1952.8	1830.5	1761.1
55°	1686.7	1761.1	1899.9	1939.0	1951.6	1962.9	1962.9	1945.3	1891.0	1767.4	1693.0
57.5°	1582.0	1647.6	1757.3	1796.4	1826.7	1834.3	1834.3	1805.2	1761.1	1642.5	1582.0
60°	1468.4	1525.2	1599.6	1641.2	1664.0	1648.8	1660.2	1652.6	1617.3	1507.5	1457.1
62.5°	1317.0	1375.1	1457.1	1500.0	1510.0	1494.9	1510.0	1508.8	1460.8	1362.4	1301.9
65°	1208.5	1265.3	1346.0	1401.6	1418.0	1414.2	1424.3	1409.1	1349.8	1256.5	1198.4
67.5°	1079.9	1140.4	1233.8	1295.6	1329.6	1333.4	1347.3	1315.8	1255.2	1153.0	1079.9
70°	957.5	1009.2	1081.1	1139.2	1187.1	1211.1	1213.6	1168.2	1092.5	1008.0	955.0
72.5°	828.8	881.8	968.9	1031.9	1092.5	1120.2	1120.2	1064.7	982.7	889.4	832.6
75°	672.4	721.6	801.1	869.2	938.6	973.9	972.6	924.7	833.9	745.6	686.3
77.5°	455.4	492.0	542.5	594.2	604.3	632.0	645.9	585.3	534.9	486.9	434.0
80°	264.9	287.6	315.4	344.4	350.7	359.5	336.8	314.1	287.6	256.1	232.1
82.5°	155.2	170.3	184.2	206.9	210.7	213.2	193.0	182.9	161.5	142.6	127.4
85°	75.7	80.7	93.4	104.7	99.7	97.1	88.3	78.2	69.4	61.8	54.2
87.5°	15.1	15.1	22.7	21.4	17.7	15.1	8.8	11.4	2.5	2.5	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: P635290

CATALOG NUMBER: GWS-SA3D-740-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2762.7	2762.7	2762.7	2762.7	2762.7	2762.7	2762.7	2762.7	2762.7	2762.7	2762.7
2.5°	2591.2	2612.6	2639.1	2674.4	2714.8	2757.7	2799.3	2830.9	2862.4	2909.1	2901.5
5°	2458.7	2495.3	2536.9	2591.2	2656.8	2731.2	2814.5	2897.7	2987.3	3063.0	3095.8
7.5°	2381.8	2422.1	2471.3	2542.0	2626.5	2717.3	2834.6	2969.6	3114.7	3214.4	3276.2
10°	2381.8	2433.5	2497.8	2565.9	2640.4	2733.7	2878.8	3047.8	3234.6	3365.8	3437.7
12.5°	2519.3	2571.0	2584.9	2582.3	2624.0	2727.4	2914.1	3129.8	3353.1	3491.9	3580.2
15°	2733.7	2751.4	2646.7	2550.8	2557.1	2682.0	2930.5	3195.4	3455.3	3621.8	3717.7
17.5°	2877.5	2830.9	2644.2	2476.4	2441.1	2605.1	2930.5	3258.5	3563.8	3751.8	3841.3
20°	2888.9	2772.8	2579.8	2404.5	2313.6	2502.9	2910.3	3306.5	3668.5	3876.7	3972.5
22.5°	2789.2	2674.4	2511.7	2342.7	2208.9	2379.2	2877.5	3343.0	3758.1	3994.0	4112.6
25°	2675.7	2579.8	2442.3	2279.6	2137.0	2254.3	2847.3	3404.9	3883.0	4152.9	4272.8
27.5°	2564.7	2483.9	2359.1	2226.6	2096.7	2145.9	2828.3	3495.7	4031.8	4378.8	4482.2
30°	2456.2	2383.0	2269.5	2176.1	2075.2	2075.2	2811.9	3600.4	4228.6	4632.3	4735.8
32.5°	2346.4	2277.1	2185.0	2126.9	2062.6	2047.5	2766.5	3698.8	4431.7	4909.9	5015.8
35°	2244.3	2174.9	2104.2	2080.3	2056.3	2026.0	2654.2	3775.7	4629.8	5234.1	5324.9
37.5°	2148.4	2081.5	2028.5	2022.2	2024.7	1968.0	2477.6	3840.1	4877.1	5565.9	5613.8
40°	2065.1	1990.7	1949.1	1947.8	1960.4	1874.6	2254.3	3932.2	5159.6	5847.2	5827.0
42.5°	1990.7	1912.5	1862.0	1873.4	1865.8	1781.3	2036.1	4016.7	5405.6	6110.8	6070.5
45°	1917.5	1841.8	1771.2	1787.6	1778.8	1723.2	1850.7	4078.5	5678.1	6427.5	6432.5
47.5°	1846.9	1772.4	1701.8	1681.6	1680.4	1705.6	1708.1	4098.7	6122.2	6937.1	6822.3
50°	1781.3	1706.8	1633.7	1565.6	1592.0	1670.3	1602.1	4083.6	6787.0	7499.8	7179.3
52.5°	1713.2	1642.5	1561.8	1439.4	1508.8	1585.7	1507.5	4029.3	7193.2	7996.8	7805.1
55°	1634.9	1568.1	1458.3	1309.5	1394.0	1410.4	1410.4	3504.5	7366.0	8488.8	8607.4
57.5°	1530.2	1441.9	1267.8	1148.0	1223.7	1160.6	1306.9	2452.4	7080.9	8333.6	8794.1
60°	1411.6	1317.0	1132.8	1047.1	1069.8	958.8	1113.9	1537.8	5868.6	7091.0	7888.3
62.5°	1255.2	1168.2	1015.5	948.7	902.0	782.1	896.9	972.6	4023.0	5265.6	5809.3
65°	1150.5	1054.6	918.4	830.1	734.2	629.5	595.4	638.3	2163.5	2946.9	3314.0
67.5°	1026.9	932.3	803.6	692.6	615.6	539.9	480.6	465.5	741.8	981.5	1062.2
70°	909.6	818.7	711.5	608.1	531.1	456.7	398.6	357.0	343.1	340.6	335.6
72.5°	789.7	705.2	615.6	519.7	435.2	367.1	315.4	267.4	247.3	241.0	234.6
75°	647.2	580.3	490.7	387.3	319.2	256.1	215.7	184.2	166.5	160.2	152.6
77.5°	416.3	386.0	307.8	249.8	193.0	152.6	131.2	111.0	99.7	97.1	90.8
80°	222.0	206.9	170.3	143.8	114.8	93.4	82.0	70.6	64.3	61.8	59.3
82.5°	123.6	112.3	94.6	83.3	66.9	56.8	50.5	45.4	41.6	40.4	39.1
85°	55.5	47.9	37.8	35.3	31.5	29.0	27.8	25.2	24.0	22.7	21.4
87.5°	2.5	5.0	6.3	5.0	5.0	7.6	8.8	8.8	7.6	7.6	6.3
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: P635290

CATALOG NUMBER: GWS-SA3D-740-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2762.7	2762.7	2762.7	2762.7	2762.7	2762.7	2762.7	2762.7	2762.7	2762.7
2.5°	2948.2	2986.0	2989.8	3002.4	2986.0	2982.2	2955.8	2940.6	2926.7	2923.0
5°	3177.8	3253.5	3283.8	3305.2	3285.0	3274.9	3216.9	3156.3	3122.3	3105.9
7.5°	3413.7	3527.2	3586.5	3613.0	3615.5	3570.1	3470.5	3356.9	3300.2	3278.7
10°	3624.4	3764.4	3842.6	3893.1	3875.4	3819.9	3683.7	3529.7	3457.8	3438.9
12.5°	3780.8	3914.5	3975.1	4007.9	4006.6	3976.3	3847.7	3681.1	3599.1	3580.2
15°	3881.7	3961.2	3965.0	3972.5	3994.0	4034.4	3967.5	3813.6	3722.8	3696.3
17.5°	3961.2	3929.7	3870.4	3850.2	3898.1	4010.4	4050.8	3925.9	3827.5	3804.8
20°	4011.7	3852.7	3748.0	3708.9	3764.4	3947.3	4101.2	4026.8	3924.6	3895.6
22.5°	4050.8	3780.8	3611.7	3585.3	3643.3	3879.2	4152.9	4146.6	4034.4	3994.0
25°	4112.6	3732.9	3515.9	3496.9	3551.2	3846.4	4222.3	4309.4	4209.7	4151.7
27.5°	4209.7	3727.8	3466.7	3460.4	3534.8	3875.4	4322.0	4547.8	4422.9	4380.0
30°	4344.7	3775.7	3478.0	3490.6	3581.5	3980.1	4477.2	4820.3	4695.4	4628.5
32.5°	4539.0	3904.4	3650.9	3705.1	3772.0	4147.9	4704.2	5115.5	5020.9	4922.5
35°	4795.1	4257.6	4161.8	4392.6	4329.6	4515.0	4978.0	5473.8	5359.0	5273.2
37.5°	5136.9	4981.8	5070.1	5388.0	5235.3	5208.8	5312.3	5799.2	5736.2	5650.4
40°	5616.3	5647.8	5810.6	6228.2	6007.4	5837.1	5722.3	6044.0	6065.4	5959.4
42.5°	5934.2	6079.3	6471.6	6946.0	6641.9	6234.5	6065.4	6356.8	6358.1	6262.2
45°	6052.8	6432.5	7252.5	7798.8	7290.4	6461.5	6254.6	6782.0	6769.3	6659.6
47.5°	6009.9	6730.2	8063.7	8898.8	8123.0	6623.0	6228.2	7387.5	7489.7	7323.2
50°	5920.3	7029.2	9011.1	10246.1	9144.8	6794.6	6187.8	8058.6	8227.7	8099.0
52.5°	6011.2	7362.3	10131.3	11638.8	10426.5	7068.3	6460.3	8920.2	8890.0	8734.8
55°	6298.8	7755.9	11492.5	13388.6	11834.4	7531.3	7160.4	9741.5	9433.7	9248.2
57.5°	6284.9	8037.2	12685.9	14772.5	13059.3	7911.0	7403.9	9828.5	9206.6	8972.0
60°	5704.6	7908.5	13140.1	15648.0	13428.9	7701.6	6602.8	8779.0	7768.5	7522.5
62.5°	4257.6	7017.9	12259.5	14551.7	12383.1	6652.0	4965.4	6301.3	5582.3	5167.2
65°	2723.6	5490.2	10306.7	11789.0	10207.0	5087.7	2957.0	3378.4	2646.7	2528.1
67.5°	1159.3	3875.4	8011.9	7879.5	7636.0	3296.4	1141.7	951.2	709.0	696.4
70°	383.5	2636.6	4938.9	5255.5	4560.4	2270.7	377.2	319.2	317.9	306.6
72.5°	251.0	1415.4	2780.4	3095.8	2934.3	1306.9	228.3	213.2	218.2	213.2
75°	150.1	307.8	468.0	608.1	468.0	219.5	137.5	135.0	137.5	131.2
77.5°	88.3	85.8	83.3	83.3	82.0	75.7	69.4	66.9	68.1	69.4
80°	56.8	54.2	51.7	50.5	44.2	41.6	39.1	36.6	36.6	37.8
82.5°	36.6	34.1	31.5	27.8	22.7	18.9	17.7	15.1	15.1	16.4
85°	18.9	15.1	11.4	8.8	5.0	2.5	0.0	0.0	0.0	0.0
87.5°	3.8	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)