

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: P635569

Luminaire Tested: GWS-SA3E-722-U-SLR-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635569
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-SA3E-722-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) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12673.9 lumens
Efficiency: N/A
Efficacy: 79.6 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

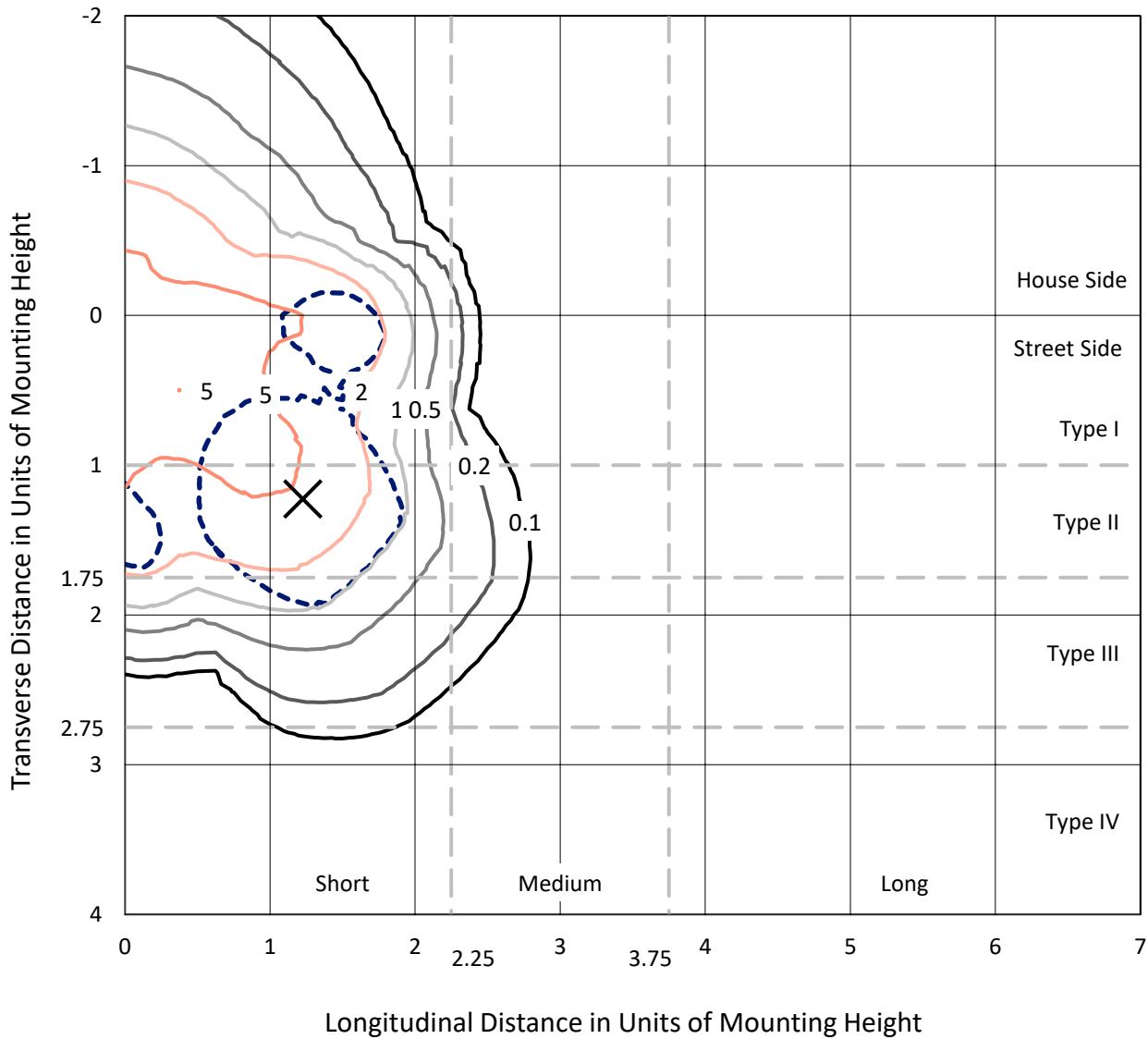
Input Watts (W): 159.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P635569
 CATALOG NUMBER: GWS-SA3E-722-U-SLR-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

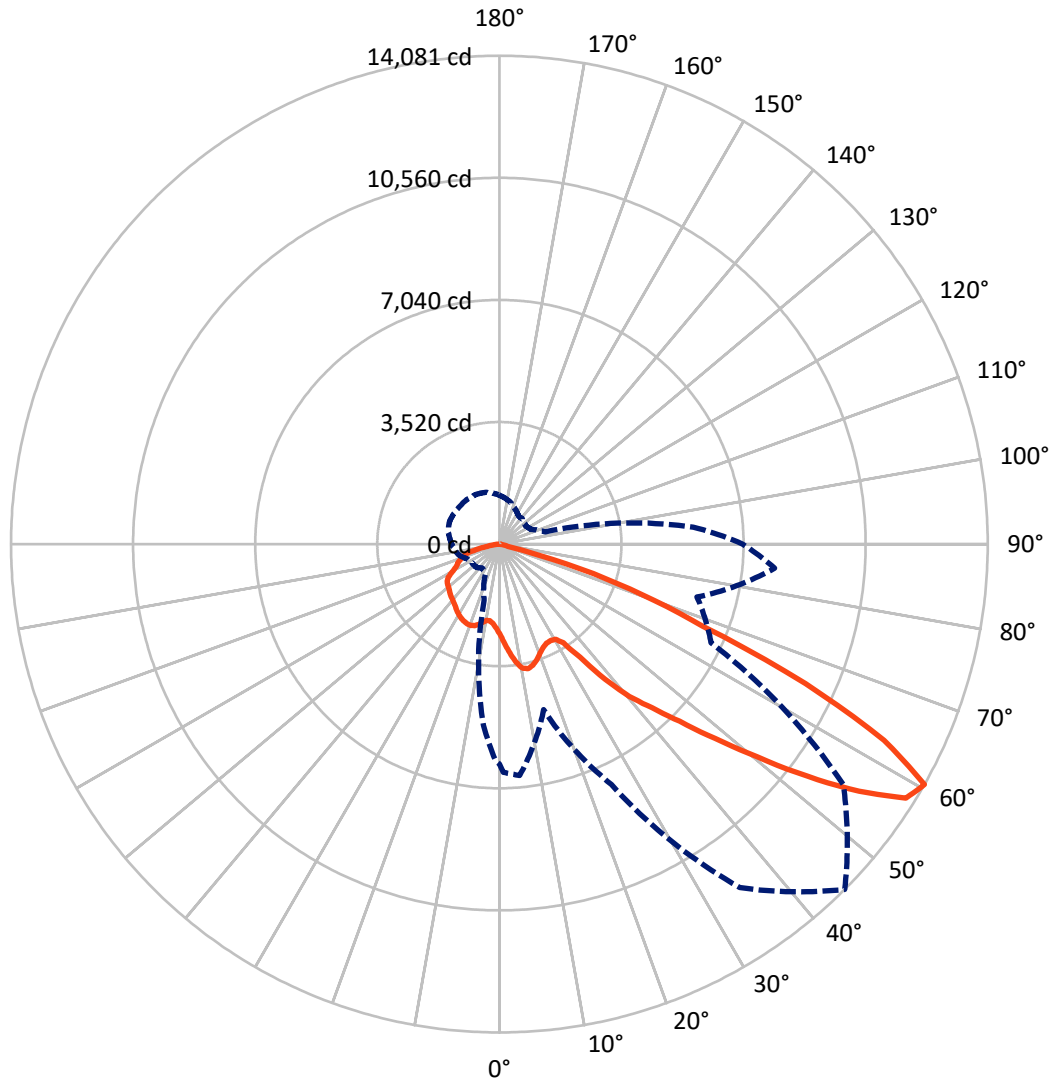
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.7 fc
 Type III - Short - N/A

REPORT NUMBER: P635569
CATALOG NUMBER: GWS-SA3E-722-U-SLR-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

REPORT NUMBER: P635569

CATALOG NUMBER: GWS-SA3E-722-U-SLR-W-GRSWH

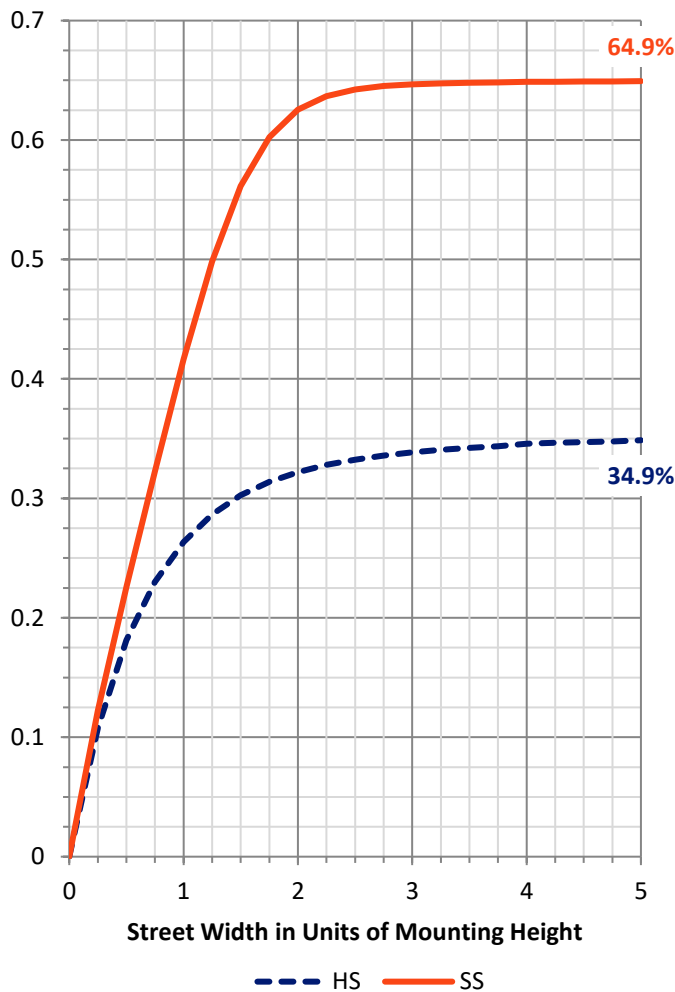
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4442.7	0.0	4442.7
	% Fixture	35.1	0.0	35.1
Street Side	Lumens	8231.2	0.0	8231.2
	% Fixture	64.9	0.0	64.9
Total	Lumens	12673.9	0.0	12673.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.0	2.0
10°-20°	802.7	6.3
20°-30°	1303.9	10.3
30°-40°	1838.9	14.5
40°-50°	2541.3	20.1
50°-60°	3271.4	25.8
60°-70°	2072.8	16.4
70°-80°	531.9	4.2
80°-90°	56.9	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°	12673.9	100.0
0°-180°	12673.9	100.0

Coefficient of Utilization



REPORT NUMBER: P635569

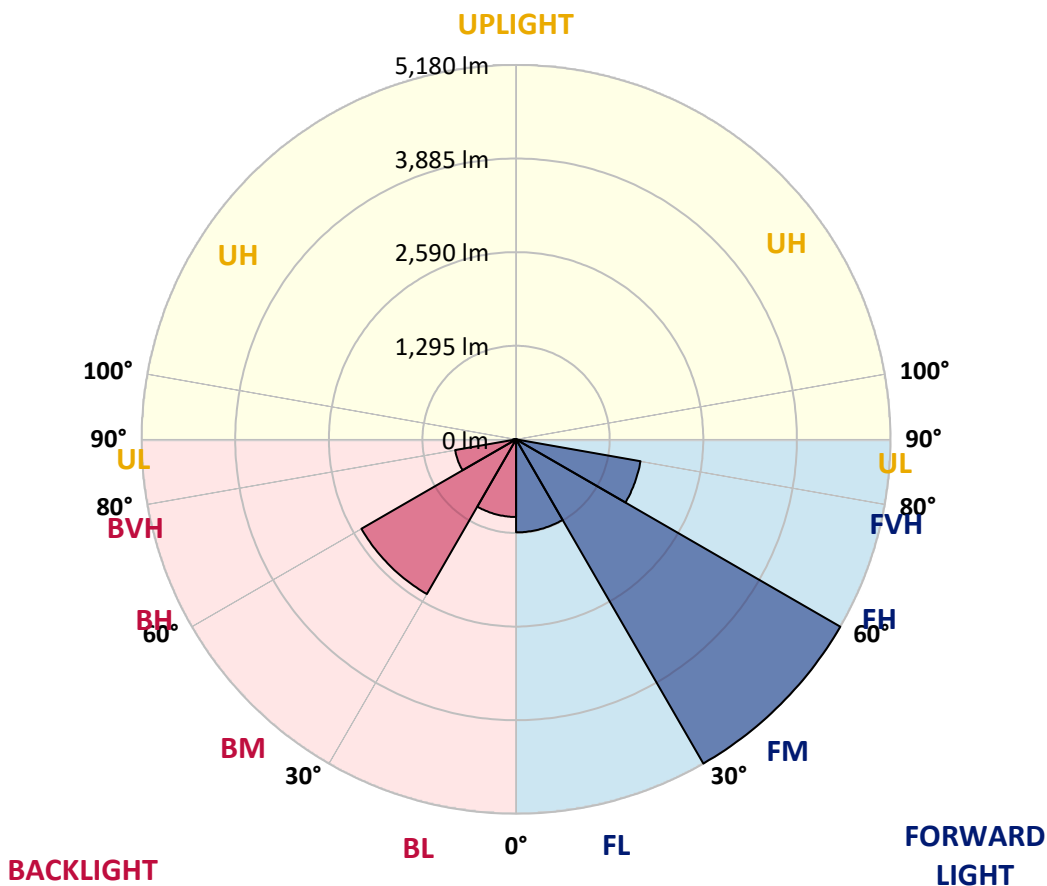
CATALOG NUMBER: GWS-SA3E-722-U-SLR-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1286.9	10.2			
FM (30°-60°)	5180.4	40.9			
FH (60°-80°)	1748.6	13.8			G1/1800
FVH (80°-90°)	15.4	0.1			G1/100
BL (0°-30°)	1073.8	8.5	B3/2500		
BM (30°-60°)	2471.3	19.5	B2/2500		
BH (60°-80°)	856.1	6.8	B2/1000		G2/1000
BVH (80°-90°)	41.4	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: P635569

CATALOG NUMBER: GWS-SA3E-722-U-SLR-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2603.6	2603.6	2603.6	2603.6	2603.6	2603.6	2603.6	2603.6	2603.6	2603.6	2603.6
2.5°	2723.2	2741.8	2753.4	2775.5	2814.9	2837.0	2861.4	2834.7	2841.7	2838.2	2795.2
5°	2884.6	2906.7	2936.9	3001.9	3075.1	3115.7	3154.0	3148.2	3112.2	3051.8	3008.9
7.5°	3035.6	3061.1	3113.4	3219.1	3327.1	3389.8	3436.2	3406.0	3375.8	3280.6	3172.6
10°	3154.0	3169.1	3240.0	3381.6	3507.1	3577.9	3634.8	3627.8	3586.0	3479.2	3334.0
12.5°	3265.5	3276.0	3352.6	3494.3	3606.9	3638.3	3684.7	3699.8	3685.9	3605.8	3462.9
15°	3385.1	3404.9	3475.7	3583.7	3634.8	3602.3	3618.5	3660.4	3699.8	3699.8	3568.6
17.5°	3496.6	3514.0	3586.0	3632.5	3583.7	3497.8	3502.4	3555.8	3649.9	3748.6	3665.0
20°	3595.3	3611.6	3682.4	3638.3	3483.8	3358.4	3354.9	3420.0	3572.1	3780.0	3768.4
22.5°	3703.3	3726.5	3785.8	3642.9	3390.9	3231.8	3230.7	3298.0	3503.6	3811.3	3886.8
25°	3856.6	3892.6	3922.8	3683.6	3341.0	3149.4	3164.5	3228.4	3481.5	3862.4	4062.2
27.5°	4084.2	4113.3	4110.9	3768.4	3338.7	3115.7	3147.1	3221.4	3521.0	3953.0	4246.8
30°	4330.4	4345.5	4321.1	3886.8	3392.1	3136.6	3183.1	3271.3	3620.9	4102.8	4518.5
32.5°	4603.3	4621.9	4575.4	4064.5	3516.4	3291.1	3393.3	3436.2	3761.4	4318.8	4806.5
35°	4916.9	4952.9	4856.5	4299.1	3882.2	3854.3	4002.9	3947.2	4059.8	4574.3	5114.3
37.5°	5246.7	5247.8	5109.6	4646.3	4599.8	4647.4	4944.7	4770.5	4692.7	4858.8	5427.8
40°	5526.5	5519.6	5307.1	5114.3	5224.6	5413.9	5772.7	5505.6	5301.2	5240.9	5688.0
42.5°	5806.4	5780.9	5566.0	5411.6	5655.4	6044.5	6449.8	6122.3	5691.4	5588.1	5944.6
45°	6164.1	6155.9	5897.0	5530.0	6044.5	6750.5	7288.2	6757.5	5922.5	5790.1	6371.9
47.5°	6741.2	6701.7	6219.8	5520.7	6409.1	7691.2	8370.5	7557.6	6083.9	5794.8	7061.7
50°	7305.6	7256.8	6605.4	5519.6	6785.4	8666.6	9647.9	8529.6	6248.8	5822.7	7763.2
52.5°	7875.8	7875.8	7238.3	5650.8	7180.2	9755.9	11123.9	9740.8	6529.9	6187.3	8626.0
55°	8214.9	8305.5	7950.1	5872.6	7642.4	11038.0	12583.6	11048.4	6964.2	6845.7	9422.6
57.5°	7784.1	7953.6	7902.5	5718.1	7915.3	11979.8	13821.6	12040.2	7179.0	6923.6	9303.0
60°	6342.9	6578.7	6695.9	4937.8	7645.9	12088.9	14080.5	12105.2	6735.4	5895.8	7968.7
62.5°	4216.6	4410.5	4589.4	3528.0	6619.3	10875.4	12453.6	10878.9	5625.2	4400.1	5520.7
65°	2068.2	2212.2	2405.0	2085.7	5171.2	9087.0	9709.5	8790.9	4069.1	2463.1	2816.1
67.5°	541.2	581.8	608.5	809.4	3704.5	6528.7	6332.5	6430.0	2614.0	804.8	736.3
70°	281.0	283.4	282.2	334.4	2503.7	4149.3	4364.1	4037.8	1824.4	336.8	290.3
72.5°	200.9	202.1	198.6	225.3	1208.9	2377.1	2463.1	2436.4	955.7	199.7	198.6
75°	131.2	132.4	130.1	132.4	182.3	270.6	249.7	262.4	159.1	126.6	126.6
77.5°	77.8	79.0	77.8	80.1	77.8	77.8	72.0	72.0	68.5	68.5	69.7
80°	52.3	52.3	51.1	53.4	48.8	48.8	46.5	45.3	41.8	40.6	40.6
82.5°	31.4	32.5	31.4	31.4	29.0	29.0	26.7	25.5	22.1	22.1	20.9
85°	16.3	16.3	15.1	15.1	12.8	11.6	9.3	9.3	7.0	5.8	5.8
87.5°	2.3	2.3	1.2	1.2	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



REPORT NUMBER: P635569

CATALOG NUMBER: GWS-SA3E-722-U-SLR-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2603.6	2603.6	2603.6	2603.6	2603.6	2603.6	2603.6	2603.6	2603.6	2603.6	2603.6
2.5°	2783.6	2760.4	2725.5	2691.8	2660.5	2628.0	2590.8	2552.5	2520.0	2486.3	2468.9
5°	2952.0	2904.4	2813.8	2733.7	2661.7	2602.4	2538.6	2484.0	2432.9	2391.1	2370.2
7.5°	3104.1	3029.8	2892.7	2766.2	2668.6	2587.3	2499.1	2417.8	2349.3	2298.2	2278.4
10°	3244.6	3156.4	2976.4	2816.1	2702.3	2611.7	2503.7	2393.4	2302.8	2235.5	2219.2
12.5°	3358.4	3257.4	3042.6	2856.7	2722.0	2624.5	2529.3	2434.0	2344.6	2257.5	2243.6
15°	3459.5	3339.8	3092.5	2882.3	2715.1	2590.8	2510.7	2499.1	2499.1	2400.4	2372.5
17.5°	3546.6	3415.3	3133.1	2893.9	2670.9	2490.9	2442.2	2543.2	2657.0	2586.2	2523.5
20°	3646.4	3487.3	3166.8	2893.9	2589.7	2364.4	2359.7	2531.6	2700.0	2701.1	2634.9
22.5°	3747.5	3570.9	3206.3	2883.5	2478.2	2218.0	2304.0	2485.1	2634.9	2698.8	2653.5
25°	3911.2	3687.1	3269.0	2875.3	2348.1	2118.2	2254.0	2423.6	2550.2	2617.5	2588.5
27.5°	4119.1	3840.4	3364.2	2888.1	2219.2	2059.0	2200.6	2343.5	2458.4	2517.7	2496.8
30°	4351.3	4016.9	3466.4	2910.2	2126.3	2028.8	2136.8	2251.7	2353.9	2413.1	2403.9
32.5°	4647.4	4208.5	3554.7	2880.0	2074.0	2013.7	2069.4	2151.9	2250.6	2287.7	2295.9
35°	5001.6	4419.8	3622.0	2761.5	2026.4	1997.4	1996.2	2047.3	2117.0	2176.2	2182.0
37.5°	5328.0	4667.2	3696.4	2558.3	1940.5	1956.8	1910.3	1940.5	2009.0	2068.2	2091.5
40°	5650.8	4918.0	3799.7	2299.3	1827.9	1866.2	1811.6	1832.5	1887.1	1964.9	2002.0
42.5°	5964.3	5144.5	3908.9	2034.6	1715.2	1739.6	1699.0	1719.9	1776.8	1874.3	1916.1
45°	6305.8	5451.0	3993.6	1784.9	1617.7	1607.2	1574.7	1604.9	1690.8	1797.7	1847.6
47.5°	6951.4	5934.1	4049.4	1618.8	1565.4	1489.9	1452.8	1517.8	1615.3	1723.3	1783.7
50°	7739.9	6633.2	4033.1	1513.1	1520.1	1369.1	1356.4	1442.3	1546.8	1659.5	1725.7
52.5°	8364.7	7319.6	3848.5	1412.1	1431.9	1292.5	1255.3	1380.8	1480.6	1595.6	1664.1
55°	8842.0	7550.6	3281.8	1292.5	1287.9	1236.8	1159.0	1316.9	1414.4	1521.3	1595.6
57.5°	8453.0	7036.2	2432.9	1127.6	1099.7	1126.4	1051.0	1208.9	1333.1	1438.8	1505.0
60°	7015.3	5610.1	1355.2	998.7	919.7	984.8	973.2	1095.1	1244.9	1356.4	1413.3
62.5°	4762.4	3735.8	803.6	789.7	745.5	838.4	900.0	980.1	1127.6	1218.2	1271.6
65°	2373.7	1815.1	534.2	591.1	596.9	689.8	805.9	894.2	1017.3	1110.2	1163.6
67.5°	688.6	564.4	406.4	451.7	514.4	588.8	681.7	786.2	905.8	1016.1	1078.8
70°	297.3	300.8	322.8	376.3	437.8	514.4	607.3	709.5	810.6	895.3	943.0
72.5°	210.2	218.3	242.7	297.3	355.4	428.5	521.4	620.1	693.3	779.2	829.2
75°	134.7	140.5	160.3	202.1	245.0	315.9	404.1	494.7	570.2	631.7	679.3
77.5°	74.3	75.5	91.7	116.1	145.2	190.4	255.5	326.3	382.1	416.9	459.9
80°	43.0	43.0	51.1	66.2	83.6	111.5	147.5	182.3	216.0	238.1	259.0
82.5°	23.2	23.2	26.7	36.0	45.3	61.5	82.5	99.9	120.8	132.4	146.3
85°	7.0	7.0	9.3	12.8	16.3	23.2	32.5	41.8	51.1	59.2	67.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
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: P635569

CATALOG NUMBER: GWS-SA3E-722-U-SLR-W-GRSWH

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2603.6	2603.6	2603.6	2603.6	2603.6	2603.6	2603.6	2603.6	2603.6	2603.6	2603.6
2.5°	2465.4	2449.1	2439.9	2428.2	2431.7	2421.3	2415.5	2418.9	2398.0	2418.9	2439.9
5°	2362.0	2338.8	2320.2	2305.1	2298.2	2284.2	2276.1	2276.1	2263.3	2284.2	2309.8
7.5°	2271.5	2252.9	2243.6	2234.3	2223.9	2211.1	2197.1	2192.5	2184.4	2206.4	2228.5
10°	2211.1	2213.4	2219.2	2232.0	2229.7	2221.5	2200.6	2189.0	2189.0	2214.6	2248.2
12.5°	2238.9	2263.3	2277.3	2300.5	2305.1	2298.2	2277.3	2268.0	2291.2	2329.5	2385.3
15°	2346.9	2363.2	2374.8	2393.4	2392.2	2386.4	2370.2	2377.1	2453.8	2528.1	2578.0
17.5°	2464.2	2445.7	2443.3	2454.9	2458.4	2451.5	2442.2	2473.5	2600.1	2669.8	2695.3
20°	2549.0	2485.1	2471.2	2475.8	2485.1	2481.7	2481.7	2532.8	2664.0	2696.5	2664.0
22.5°	2574.6	2484.0	2463.1	2464.2	2477.0	2478.2	2484.0	2537.4	2614.0	2615.2	2565.3
25°	2533.9	2446.8	2431.7	2434.0	2449.1	2448.0	2450.3	2480.5	2514.2	2500.2	2463.1
27.5°	2457.3	2381.8	2377.1	2389.9	2409.7	2399.2	2392.2	2400.4	2416.6	2399.2	2366.7
30°	2370.2	2306.3	2308.6	2333.0	2353.9	2336.5	2319.1	2323.7	2324.9	2306.3	2269.1
32.5°	2278.4	2230.8	2238.9	2264.5	2288.9	2270.3	2251.7	2249.4	2227.3	2205.3	2169.3
35°	2186.7	2168.1	2178.6	2199.5	2220.4	2205.3	2193.7	2186.7	2139.1	2106.6	2076.4
37.5°	2103.1	2117.0	2135.6	2148.4	2155.3	2154.2	2147.2	2130.9	2068.2	2029.9	1990.4
40°	2028.8	2071.7	2091.5	2097.3	2107.7	2105.4	2104.2	2081.0	1998.6	1957.9	1912.6
42.5°	1961.4	2021.8	2055.5	2061.3	2067.1	2068.2	2064.8	2031.1	1937.0	1889.4	1846.4
45°	1896.4	1975.3	2018.3	2012.5	2020.6	2020.6	2024.1	1980.0	1876.6	1827.9	1782.6
47.5°	1839.5	1932.4	1971.9	1964.9	1969.5	1973.0	1976.5	1925.4	1810.4	1764.0	1717.5
50°	1787.2	1885.9	1919.6	1921.9	1921.9	1930.0	1928.9	1879.0	1754.7	1704.8	1658.3
52.5°	1731.5	1838.3	1874.3	1889.4	1894.0	1897.5	1881.3	1823.2	1697.8	1637.4	1594.4
55°	1666.4	1789.5	1822.0	1841.8	1851.1	1848.8	1826.7	1767.5	1639.7	1579.3	1530.6
57.5°	1567.7	1685.0	1731.5	1740.8	1755.9	1746.6	1721.0	1671.1	1546.8	1486.4	1436.5
60°	1459.7	1544.5	1581.7	1589.8	1578.2	1581.7	1578.2	1530.6	1422.6	1375.0	1323.9
62.5°	1318.1	1393.5	1433.0	1443.5	1423.7	1436.5	1431.9	1372.6	1264.6	1214.7	1169.4
65°	1211.2	1293.7	1340.1	1345.9	1340.1	1345.9	1329.7	1257.7	1155.5	1104.4	1057.9
67.5°	1127.6	1212.4	1261.2	1277.4	1271.6	1270.4	1244.9	1161.3	1055.6	999.9	940.6
70°	983.6	1057.9	1120.6	1160.1	1160.1	1138.1	1089.3	1011.5	926.7	879.1	832.6
72.5°	871.0	965.0	1026.6	1067.2	1075.3	1062.6	994.1	911.6	814.1	766.4	717.7
75°	717.7	809.4	875.6	929.0	939.5	925.5	846.6	765.3	674.7	628.3	579.5
77.5°	479.6	534.2	587.6	636.4	625.9	635.2	581.8	520.3	464.5	429.7	407.6
80°	270.6	306.6	322.8	349.5	349.5	349.5	314.7	285.7	254.3	234.6	212.5
82.5°	153.3	176.5	183.5	205.5	211.4	212.5	189.3	170.7	151.0	140.5	125.4
85°	70.8	83.6	84.8	97.5	102.2	111.5	101.0	88.3	76.6	72.0	62.7
87.5°	2.3	7.0	9.3	17.4	23.2	26.7	29.0	29.0	24.4	22.1	18.6
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: P635569

CATALOG NUMBER: GWS-SA3E-722-U-SLR-W-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2603.6	2603.6	2603.6	2603.6	2603.6	2603.6	2603.6	2603.6	2603.6	2603.6
2.5°	2465.4	2493.3	2525.8	2549.0	2590.8	2625.7	2661.7	2701.1	2730.2	2723.2
5°	2341.1	2387.6	2446.8	2501.4	2579.2	2658.2	2745.3	2834.7	2886.9	2884.6
7.5°	2271.5	2337.7	2409.7	2482.8	2574.6	2688.4	2821.9	2961.3	3032.1	3035.6
10°	2308.6	2379.5	2428.2	2489.8	2586.2	2729.0	2889.3	3056.5	3137.8	3154.0
12.5°	2425.9	2420.1	2416.6	2460.8	2576.9	2758.0	2954.3	3154.0	3245.8	3265.5
15°	2537.4	2417.8	2345.8	2376.0	2535.1	2776.6	3018.2	3260.9	3364.2	3385.1
17.5°	2558.3	2377.1	2243.6	2264.5	2468.9	2782.4	3079.7	3365.4	3476.9	3496.6
20°	2500.2	2324.9	2169.3	2140.2	2385.3	2767.3	3118.0	3452.5	3574.4	3595.3
22.5°	2427.1	2278.4	2113.5	2038.0	2283.1	2752.2	3161.0	3544.2	3684.7	3703.3
25°	2350.4	2219.2	2061.3	1946.3	2166.9	2742.9	3233.0	3665.0	3834.5	3856.6
27.5°	2269.1	2147.2	2016.0	1902.2	2060.1	2754.6	3335.2	3860.1	4052.9	4084.2
30°	2182.0	2075.2	1987.0	1887.1	1987.0	2765.0	3447.8	4059.8	4286.3	4330.4
32.5°	2091.5	2009.0	1956.8	1894.0	1941.7	2740.6	3546.6	4284.0	4565.0	4603.3
35°	2000.9	1941.7	1918.4	1906.8	1881.3	2651.2	3626.7	4510.4	4883.2	4916.9
37.5°	1916.1	1872.0	1865.0	1877.8	1788.4	2504.9	3719.6	4798.4	5195.6	5246.7
40°	1837.1	1796.5	1795.3	1793.0	1686.2	2305.1	3845.0	5091.1	5503.3	5526.5
42.5°	1764.0	1712.9	1722.2	1694.3	1602.6	2089.1	3963.4	5340.7	5790.1	5806.4
45°	1699.0	1631.6	1642.1	1607.2	1563.1	1862.7	4068.0	5635.7	6153.6	6164.1
47.5°	1636.2	1564.2	1535.2	1532.9	1556.1	1653.7	4170.2	6203.6	6722.7	6741.2
50°	1578.2	1500.4	1417.9	1469.0	1513.1	1496.9	4297.9	6812.1	7310.3	7305.6
52.5°	1522.4	1420.2	1303.0	1401.7	1401.7	1380.8	4261.9	7181.4	7795.7	7875.8
55°	1458.6	1291.3	1183.3	1289.0	1237.9	1276.2	3624.4	7302.1	8101.1	8214.9
57.5°	1332.0	1132.2	1038.2	1095.1	1018.4	1183.3	2603.6	6702.9	7582.0	7784.1
60°	1210.1	1015.0	953.4	943.0	843.1	965.0	1687.3	5247.8	6240.7	6342.9
62.5°	1067.2	913.9	861.7	781.5	678.2	702.6	1021.9	3453.6	4193.4	4216.6
65°	959.2	828.0	728.1	632.9	555.1	509.8	603.9	1665.3	2096.1	2068.2
67.5°	823.3	709.5	614.3	545.8	481.9	425.0	401.8	494.7	559.7	541.2
70°	732.8	623.6	531.9	466.8	407.6	350.7	310.1	291.5	285.7	281.0
72.5°	631.7	536.5	441.3	378.6	322.8	270.6	233.4	211.4	205.5	200.9
75°	504.0	414.6	327.5	268.3	219.5	182.3	157.9	139.4	135.9	131.2
77.5°	333.3	265.9	195.1	159.1	130.1	110.3	94.1	82.5	80.1	77.8
80°	183.5	153.3	119.6	96.4	77.8	67.4	61.5	54.6	53.4	52.3
82.5°	109.2	91.7	68.5	54.6	45.3	40.6	37.2	33.7	32.5	31.4
85°	54.6	43.0	30.2	25.5	23.2	20.9	20.9	17.4	16.3	16.3
87.5°	13.9	11.6	7.0	5.8	5.8	5.8	4.6	3.5	3.5	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)