

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: P638314

Luminaire Tested: GWS-SA4E-750-U-SLL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638314
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-38)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-750-U-SLL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16785.8 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

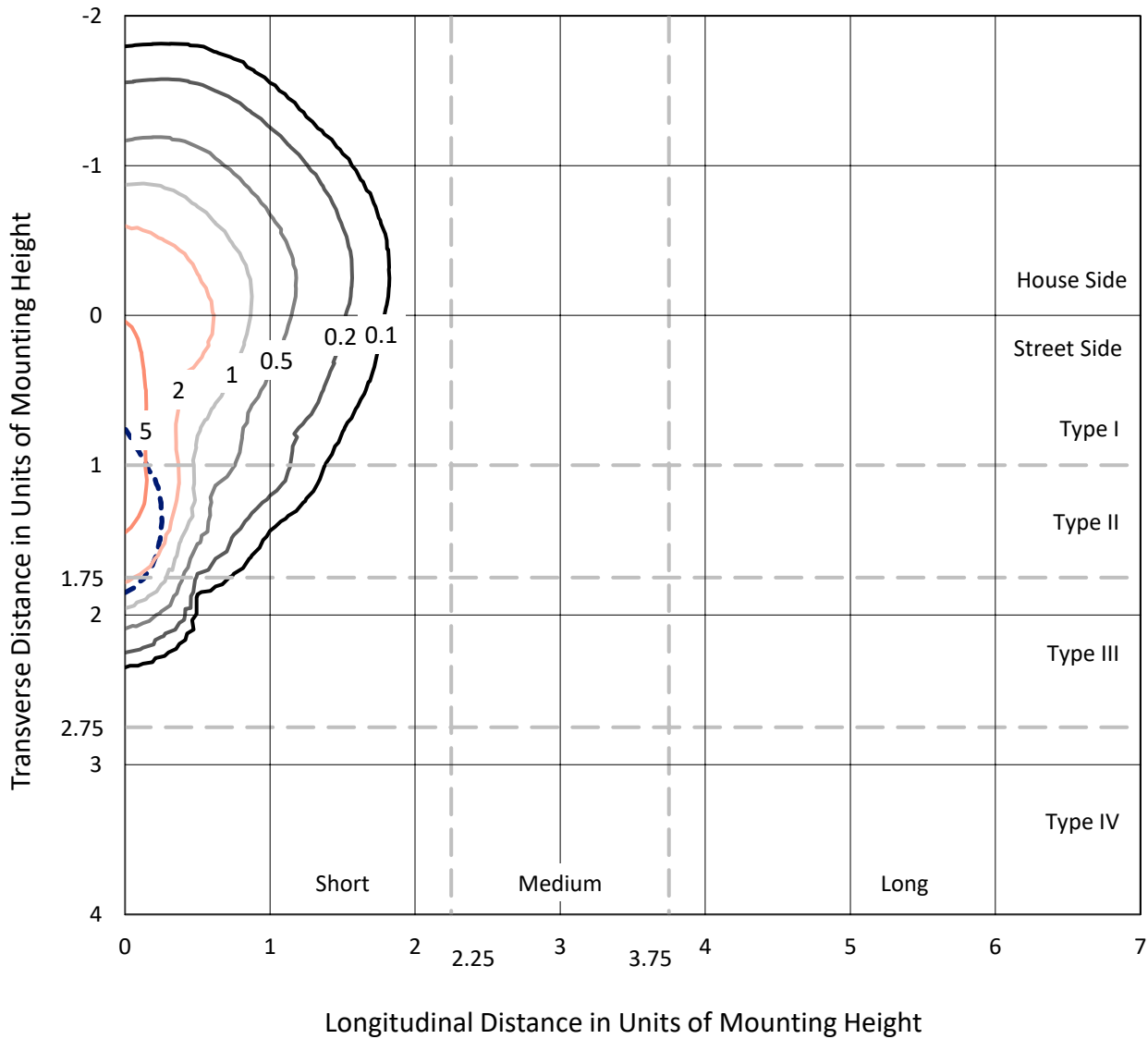
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P638314
 CATALOG NUMBER: GWS-SA4E-750-U-SLL-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

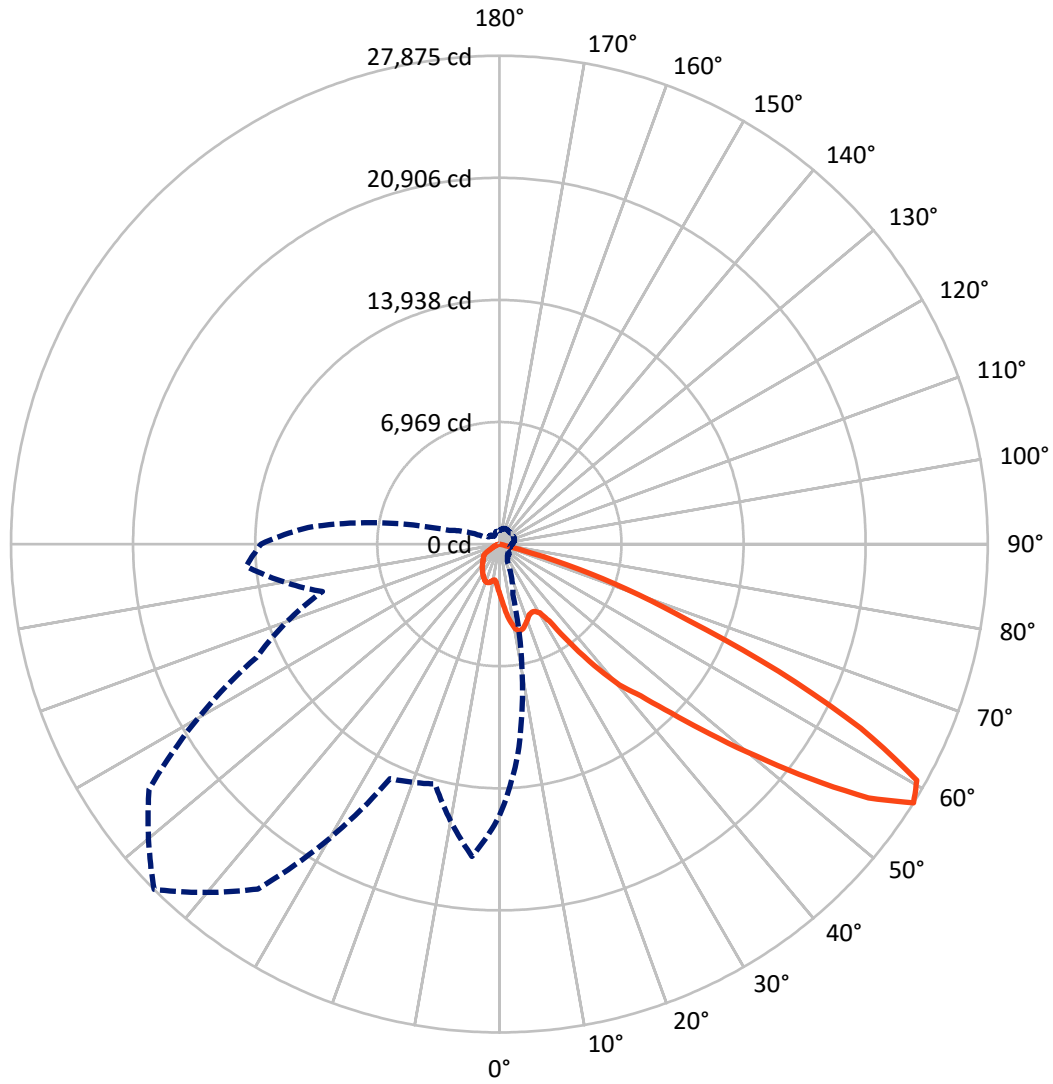
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type III - Short - N/A

REPORT NUMBER: P638314
CATALOG NUMBER: GWS-SA4E-750-U-SLL-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P638314

CATALOG NUMBER: GWS-SA4E-750-U-SLL-W-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3616.2	0.0	3616.2
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	13169.6	0.0	13169.6
	% Fixture	78.5	0.0	78.5
Total	Lumens	16785.8	0.0	16785.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.9	1.7
10°-20°	927.6	5.5
20°-30°	1505.4	9.0
30°-40°	2310.4	13.8
40°-50°	3689.9	22.0
50°-60°	5166.5	30.8
60°-70°	2649.0	15.8
70°-80°	255.0	1.5
80°-90°	0.0	0.0
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°	16785.8	100.0
0°-180°	16785.8	100.0

Coefficient of Utilization



REPORT NUMBER: P638314

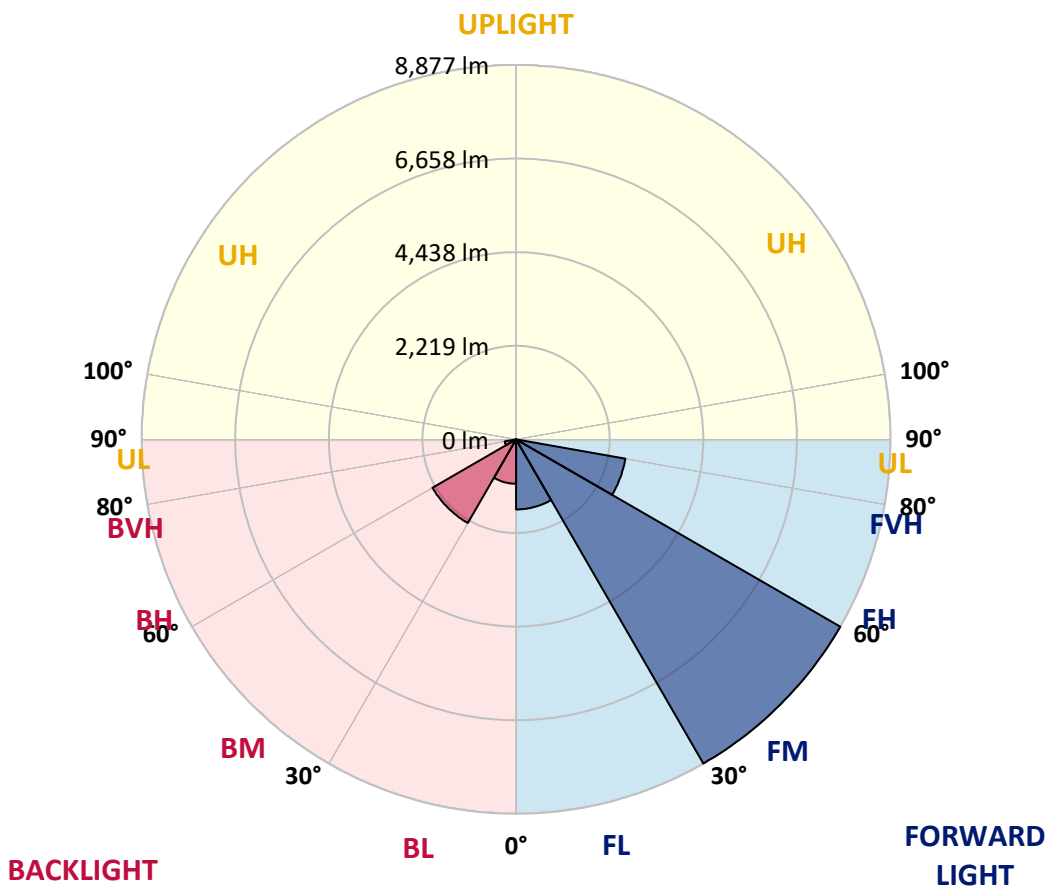
CATALOG NUMBER: GWS-SA4E-750-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1661.9	9.9			
FM (30°-60°)	8876.7	52.9			
FH (60°-80°)	2630.9	15.7			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1053.0	6.3	B3/2500		
BM (30°-60°)	2290.1	13.6	B2/2500		
BH (60°-80°)	273.1	1.6	B1/500		G1/500
BVH (80°-90°)	0.0	0.0			G0/10
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: P638314

CATALOG NUMBER: GWS-SA4E-750-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2852.2	2852.2	2852.2	2852.2	2852.2	2852.2	2852.2	2852.2	2852.2	2852.2	2852.2
2.5°	3168.6	3161.8	3139.4	3063.1	3016.0	2941.9	2888.1	2818.5	2742.2	2695.1	2647.9
5°	3505.2	3487.2	3426.6	3251.6	3117.0	2971.1	2854.4	2726.5	2589.6	2499.8	2416.8
7.5°	3828.3	3801.4	3720.6	3424.4	3220.2	3011.5	2845.4	2659.2	2466.2	2331.5	2228.3
10°	4144.7	4084.1	3956.2	3592.7	3316.7	3065.3	2870.1	2656.9	2430.3	2259.7	2145.3
12.5°	4405.0	4360.1	4185.1	3752.0	3397.5	3076.6	2836.4	2639.0	2486.4	2371.9	2266.5
15°	4629.4	4580.1	4414.0	3895.6	3467.0	3031.7	2695.1	2522.3	2547.0	2591.8	2502.1
17.5°	4835.9	4784.3	4604.7	4014.6	3493.9	2921.7	2497.6	2414.6	2551.5	2719.8	2686.1
20°	5049.1	4990.7	4770.8	4111.1	3485.0	2748.9	2297.9	2322.6	2515.6	2708.5	2726.5
22.5°	5298.1	5237.6	4981.7	4234.5	3478.2	2542.5	2125.1	2241.8	2448.2	2612.0	2643.5
25°	5628.0	5556.2	5275.7	4416.2	3496.2	2354.0	2001.7	2163.2	2333.8	2481.9	2499.8
27.5°	6063.4	5971.4	5614.6	4640.6	3534.3	2205.9	1947.8	2055.5	2187.9	2320.3	2336.0
30°	6631.1	6514.4	6002.8	4835.9	3516.4	2102.7	1911.9	1947.8	2026.4	2134.1	2136.3
32.5°	7295.3	7136.0	6438.1	5004.2	3361.5	2026.4	1862.5	1837.9	1855.8	1938.8	1954.5
35°	8076.2	7869.8	6918.3	5163.5	3078.8	1878.2	1772.8	1689.8	1683.0	1723.4	1761.6
37.5°	8971.6	8724.8	7524.2	5367.7	2744.4	1723.4	1640.4	1557.4	1521.4	1541.6	1600.0
40°	9797.4	9523.6	8157.0	5614.6	2403.4	1584.3	1485.5	1400.3	1357.6	1364.4	1436.2
42.5°	10766.8	10484.1	8931.2	5937.7	2120.6	1490.0	1324.0	1236.5	1180.4	1211.8	1294.8
45°	12238.9	11918.0	10060.0	6218.2	1896.2	1467.6	1182.6	1059.2	1032.3	1086.1	1184.8
47.5°	14249.6	13856.9	11610.6	6388.7	1705.5	1487.8	1083.9	915.6	922.3	982.9	1081.6
50°	16244.5	15820.4	13403.6	6164.3	1548.4	1447.4	1034.5	803.4	846.0	899.9	989.6
52.5°	17615.6	17063.6	14276.5	5515.8	1404.8	1294.8	1030.0	697.9	778.7	796.6	872.9
55°	17669.5	16989.5	13829.9	4348.9	1209.5	1092.8	982.9	610.4	704.6	711.4	776.4
57.5°	15488.3	14873.4	12086.3	2986.8	1074.9	801.1	783.2	534.1	579.0	635.1	675.5
60°	11783.4	11260.5	9038.9	1368.9	816.8	509.4	536.3	460.0	433.1	516.1	556.5
62.5°	7216.8	6882.4	5421.6	605.9	520.6	271.5	325.4	365.8	325.4	356.8	390.5
65°	2865.6	2717.5	2057.8	258.1	213.2	136.9	148.1	213.2	228.9	251.3	282.7
67.5°	498.2	471.2	345.6	114.4	87.5	83.0	71.8	98.7	139.1	154.8	179.5
70°	65.1	62.8	56.1	47.1	44.9	40.4	31.4	62.8	94.2	98.7	114.4
72.5°	15.7	13.5	13.5	11.2	13.5	4.5	4.5	33.7	67.3	69.6	80.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.2	42.6	47.1	56.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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	0.0



REPORT NUMBER: P638314

CATALOG NUMBER: GWS-SA4E-750-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2852.2	2852.2	2852.2	2852.2	2852.2	2852.2	2852.2	2852.2	2852.2	2852.2	2852.2
2.5°	2609.8	2564.9	2549.2	2526.8	2497.6	2506.6	2466.2	2452.7	2472.9	2499.8	2493.1
5°	2371.9	2322.6	2288.9	2237.3	2228.3	2208.1	2194.7	2176.7	2199.1	2230.6	2237.3
7.5°	2183.4	2140.8	2107.1	2091.4	2080.2	2071.2	2044.3	2030.8	2030.8	2044.3	2055.5
10°	2102.7	2071.2	2064.5	2069.0	2086.9	2084.7	2060.0	2042.1	2019.6	2008.4	2021.9
12.5°	2214.9	2163.2	2154.3	2156.5	2178.9	2176.7	2149.8	2127.3	2122.8	2127.3	2170.0
15°	2405.6	2327.1	2268.7	2257.5	2268.7	2264.2	2244.0	2230.6	2237.3	2302.4	2374.2
17.5°	2576.1	2455.0	2349.5	2309.1	2306.9	2300.1	2279.9	2275.4	2309.1	2430.3	2535.7
20°	2625.5	2506.6	2356.2	2304.6	2293.4	2286.7	2264.2	2271.0	2313.6	2459.5	2549.2
22.5°	2560.4	2446.0	2288.9	2237.3	2228.3	2226.1	2203.6	2212.6	2248.5	2376.4	2450.5
25°	2437.0	2340.5	2176.7	2131.8	2131.8	2127.3	2107.1	2111.6	2134.1	2246.3	2318.1
27.5°	2286.7	2194.7	2057.8	2012.9	2019.6	2026.4	2001.7	1994.9	2012.9	2118.4	2161.0
30°	2113.9	2048.8	1941.1	1900.7	1898.4	1925.4	1891.7	1882.7	1907.4	1990.5	1999.4
32.5°	1945.6	1914.2	1837.9	1806.4	1808.7	1813.2	1795.2	1795.2	1817.7	1862.5	1860.3
35°	1781.8	1761.6	1748.1	1725.7	1723.4	1714.4	1714.4	1718.9	1743.6	1759.3	1730.1
37.5°	1624.7	1644.9	1660.6	1638.1	1620.2	1620.2	1620.2	1640.4	1662.8	1656.1	1606.7
40°	1485.5	1528.2	1577.5	1552.9	1510.2	1508.0	1517.0	1550.6	1584.3	1543.9	1499.0
42.5°	1366.6	1420.5	1490.0	1476.6	1429.4	1422.7	1429.4	1472.1	1499.0	1447.4	1398.0
45°	1249.9	1317.2	1400.3	1400.3	1348.7	1341.9	1344.2	1400.3	1416.0	1355.4	1292.6
47.5°	1151.2	1225.2	1312.8	1312.8	1270.1	1256.7	1267.9	1326.2	1337.4	1252.2	1193.8
50°	1056.9	1137.7	1234.2	1227.5	1198.3	1187.1	1207.3	1270.1	1256.7	1162.4	1101.8
52.5°	938.0	1023.3	1155.7	1162.4	1146.7	1148.9	1173.6	1214.0	1175.9	1061.4	1009.8
55°	830.3	917.8	1050.2	1086.1	1086.1	1083.9	1095.1	1126.5	1095.1	958.2	895.4
57.5°	713.6	787.7	897.6	906.6	913.3	888.6	904.3	947.0	931.3	814.6	778.7
60°	585.7	648.5	711.4	718.1	688.9	637.3	666.5	715.8	727.1	639.5	599.2
62.5°	415.1	475.7	549.8	549.8	520.6	469.0	507.1	549.8	534.1	444.3	419.6
65°	309.7	365.8	421.9	446.6	421.9	386.0	415.1	446.6	421.9	347.8	311.9
67.5°	199.7	237.9	271.5	291.7	296.2	291.7	305.2	296.2	267.0	217.7	197.5
70°	121.2	141.4	159.3	177.3	190.7	197.5	204.2	184.0	154.8	127.9	121.2
72.5°	87.5	105.5	121.2	134.6	150.3	154.8	154.8	141.4	114.4	89.8	83.0
75°	60.6	76.3	89.8	98.7	112.2	116.7	116.7	105.5	85.3	65.1	58.3
77.5°	2.2	15.7	15.7	13.5	18.0	22.4	22.4	26.9	24.7	18.0	15.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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	0.0



REPORT NUMBER: P638314

CATALOG NUMBER: GWS-SA4E-750-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2852.2	2852.2	2852.2	2852.2	2852.2	2852.2	2852.2	2852.2	2852.2	2852.2	2852.2
2.5°	2506.6	2587.4	2609.8	2692.8	2766.9	2840.9	2930.7	2984.6	3065.3	3121.4	3152.9
5°	2259.7	2327.1	2407.8	2531.3	2659.2	2800.5	2971.1	3119.2	3305.4	3442.3	3487.2
7.5°	2080.2	2167.7	2262.0	2416.8	2591.8	2780.3	3020.5	3262.8	3547.8	3734.1	3853.0
10°	2046.6	2136.3	2262.0	2414.6	2598.6	2814.0	3108.0	3422.1	3778.9	4005.6	4140.2
12.5°	2208.1	2304.6	2358.5	2428.0	2567.2	2807.3	3184.3	3583.7	4003.3	4250.2	4393.8
15°	2446.0	2531.3	2443.7	2356.2	2446.0	2735.5	3226.9	3718.3	4200.8	4485.8	4633.9
17.5°	2609.8	2616.5	2425.8	2239.5	2264.2	2605.3	3242.6	3853.0	4411.8	4710.2	4865.0
20°	2594.1	2540.2	2347.3	2140.8	2064.5	2437.0	3224.7	3971.9	4624.9	4936.9	5089.4
22.5°	2472.9	2410.1	2246.3	2044.3	1896.2	2237.3	3193.2	4079.6	4820.2	5174.7	5318.3
25°	2327.1	2259.7	2125.1	1947.8	1788.5	2044.3	3168.6	4227.7	5067.0	5484.4	5596.6
27.5°	2156.5	2098.2	1983.7	1855.8	1743.6	1898.4	3161.8	4423.0	5365.5	5861.4	5939.9
30°	1990.5	1936.6	1846.8	1772.8	1725.7	1813.2	3139.4	4631.7	5722.3	6294.5	6379.8
32.5°	1831.1	1777.3	1721.2	1709.9	1712.2	1781.8	3063.1	4838.1	6146.4	6922.8	6985.7
35°	1694.2	1631.4	1609.0	1635.9	1685.3	1727.9	2847.7	5008.7	6601.9	7607.2	7658.9
37.5°	1564.1	1501.3	1499.0	1564.1	1617.9	1644.9	2594.1	5177.0	7216.8	8302.9	8368.0
40°	1445.2	1382.3	1404.8	1483.3	1525.9	1539.4	2286.7	5432.8	7867.6	9036.7	9000.8
42.5°	1344.2	1279.1	1292.6	1393.5	1431.7	1467.6	2003.9	5646.0	8493.6	9732.3	9721.1
45°	1245.4	1196.1	1187.1	1297.0	1330.7	1474.3	1797.5	5809.8	9299.2	10618.7	10636.7
47.5°	1148.9	1110.8	1113.0	1160.2	1243.2	1508.0	1622.4	5917.5	10468.4	12023.5	11711.6
50°	1061.4	1032.3	1056.9	1003.1	1187.1	1465.3	1472.1	5895.1	11774.4	13369.9	12743.8
52.5°	964.9	958.2	969.4	839.3	1097.3	1292.6	1330.7	5596.6	12387.0	14290.0	13933.2
55°	866.2	863.9	774.2	671.0	917.8	1032.3	1140.0	4669.8	12366.8	14779.2	15212.2
57.5°	749.5	731.6	587.9	547.5	713.6	718.1	1039.0	3058.6	10959.8	13607.8	14505.4
60°	567.7	554.3	430.9	444.3	498.2	460.0	828.0	1523.7	8190.7	10600.8	11612.8
62.5°	392.7	374.8	320.9	343.3	320.9	262.6	507.1	754.0	4961.5	6693.9	7611.7
65°	287.2	267.0	219.9	188.5	150.3	150.3	193.0	289.5	1920.9	2845.4	3431.1
67.5°	177.3	168.3	130.2	94.2	92.0	98.7	101.0	143.6	309.7	493.7	603.6
70°	114.4	105.5	87.5	60.6	56.1	58.3	60.6	67.3	78.5	85.3	103.2
72.5°	78.5	74.1	62.8	33.7	26.9	29.2	31.4	31.4	38.1	35.9	42.6
75°	56.1	51.6	44.9	15.7	9.0	11.2	13.5	11.2	13.5	9.0	11.2
77.5°	15.7	15.7	11.2	2.2	0.0	2.2	4.5	4.5	2.2	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.2	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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	0.0



REPORT NUMBER: P638314

CATALOG NUMBER: GWS-SA4E-750-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2852.2	2852.2	2852.2	2852.2	2852.2	2852.2	2852.2	2852.2	2852.2	2852.2
2.5°	3233.6	3285.3	3305.4	3276.3	3301.0	3260.6	3244.9	3184.3	3179.8	3168.6
5°	3669.0	3785.7	3855.2	3897.9	3848.5	3794.6	3713.9	3574.7	3532.1	3505.2
7.5°	4097.6	4279.4	4398.3	4454.4	4440.9	4331.0	4185.1	3951.7	3868.7	3828.3
10°	4470.1	4692.3	4835.9	4905.4	4876.3	4779.8	4571.1	4279.4	4169.4	4144.7
12.5°	4730.4	4934.6	5033.3	5093.9	5096.2	5058.0	4860.6	4566.6	4436.4	4405.0
15°	4894.2	4981.7	4984.0	5019.9	5082.7	5168.0	5076.0	4815.7	4676.5	4629.4
17.5°	4997.4	4901.0	4802.2	4811.2	4914.4	5141.1	5235.3	5035.6	4887.5	4835.9
20°	5071.5	4766.3	4582.3	4584.5	4690.0	5033.3	5345.3	5248.8	5096.2	5049.1
22.5°	5118.6	4647.4	4384.8	4378.1	4490.3	4905.4	5446.2	5502.3	5352.0	5298.1
25°	5215.1	4591.3	4265.9	4304.0	4402.8	4865.0	5583.1	5839.0	5699.8	5628.0
27.5°	5387.9	4647.4	4254.7	4342.2	4454.4	4984.0	5821.0	6287.8	6144.1	6063.4
30°	5686.4	4858.3	4427.5	4548.6	4683.3	5295.9	6220.4	6913.8	6707.4	6631.1
32.5°	6166.6	5295.9	4961.5	5221.8	5352.0	5807.5	6819.6	7616.2	7447.9	7295.3
35°	6828.6	6294.5	6256.3	6862.2	6830.8	6777.0	7555.6	8477.9	8224.4	8076.2
37.5°	7739.6	7901.2	8184.0	8785.4	8765.2	8354.5	8522.8	9292.5	9162.4	8971.6
40°	8877.4	9220.7	9700.9	10562.6	10293.3	9777.2	9709.9	10127.3	10021.8	9797.4
42.5°	9548.3	10140.8	11056.3	11830.5	11615.1	10713.0	10636.7	11242.6	11011.4	10766.8
45°	9860.2	10890.3	12685.5	13733.4	13080.4	11334.6	11305.4	12696.7	12566.5	12238.9
47.5°	10003.9	11646.5	14592.9	16179.4	14958.7	11879.9	11774.4	14806.1	14635.5	14249.6
50°	10163.2	12690.0	16890.8	19013.6	17227.4	12497.0	12573.3	16771.8	16700.0	16244.5
52.5°	10513.3	13794.0	19720.5	22254.0	19978.6	13464.2	13944.4	18625.4	18140.7	17615.6
55°	11038.4	14996.8	22664.7	25563.9	22785.8	14763.4	15427.7	19610.5	18250.7	17669.5
57.5°	10457.2	15297.5	24408.3	27875.3	24031.3	14767.9	14173.3	17902.8	16051.5	15488.3
60°	8298.4	14231.6	23737.3	27374.9	22969.8	13114.1	10852.1	13978.0	12160.4	11783.4
62.5°	5610.1	11936.0	20896.4	23151.6	19659.9	10315.8	7053.0	9090.5	7528.7	7216.8
65°	3074.3	8904.3	16884.0	17514.6	15387.3	7205.6	3628.6	3945.0	3004.7	2865.6
67.5°	848.2	6198.0	12422.9	11619.6	10796.0	4692.3	938.0	704.6	502.7	498.2
70°	213.2	4099.8	7443.4	7672.3	6619.9	3004.7	179.5	85.3	67.3	65.1
72.5°	89.8	1763.8	3532.1	4059.4	3388.5	1391.3	65.1	24.7	20.2	15.7
75°	11.2	141.4	300.7	455.5	311.9	150.3	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	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)