

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: P633368

Luminaire Tested: GWS-SA2E-750-U-SLR-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633368
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-42)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2E-750-U-SLR-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7962.6 lumens
Efficiency: N/A
Efficacy: 73.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

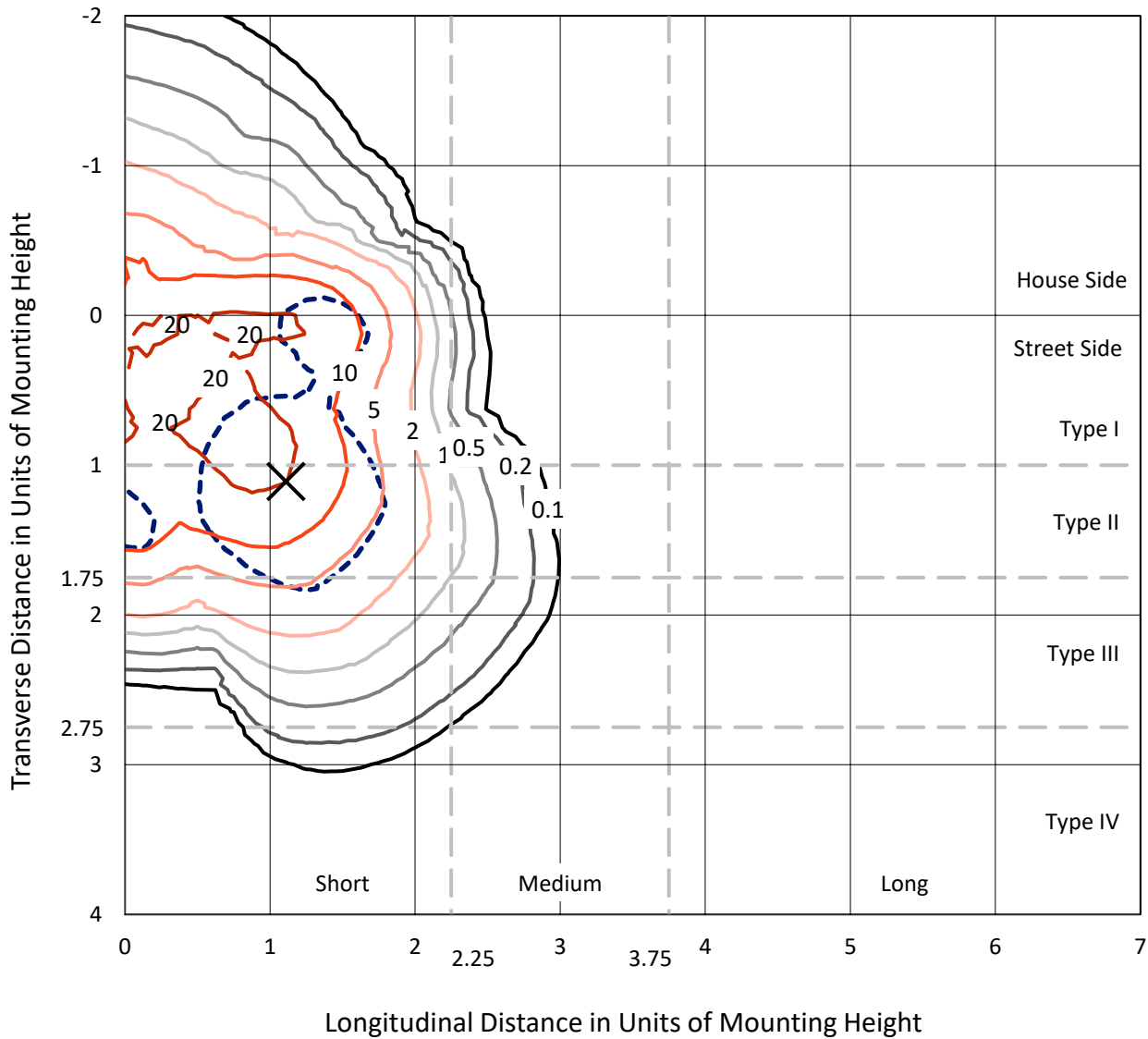
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

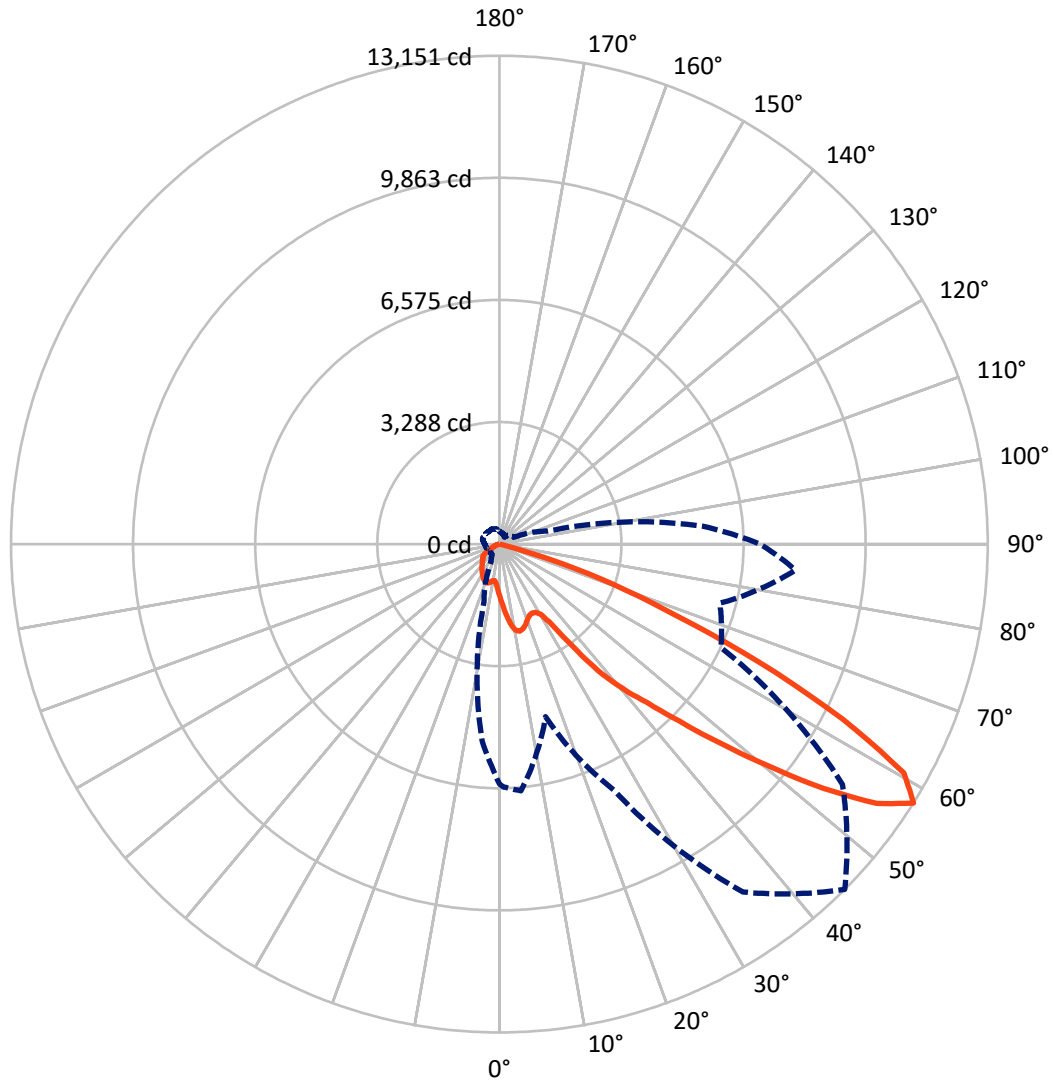
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 24.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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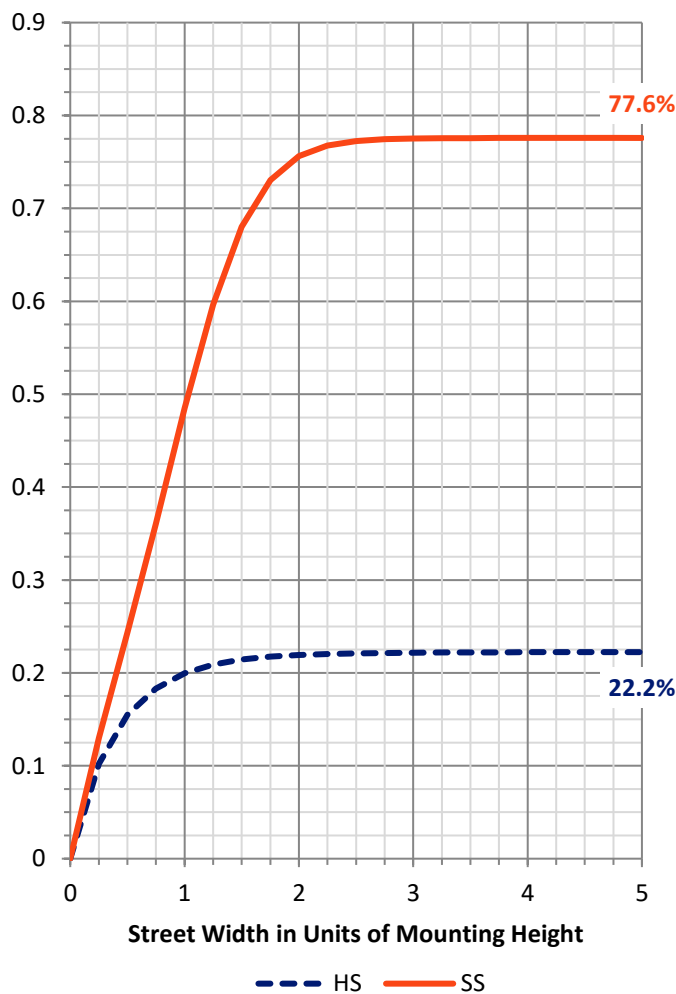
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1783.0	0.0	1783.0
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	6179.6	0.0	6179.6
	% Fixture	77.6	0.0	77.6
Total	Lumens	7962.6	0.0	7962.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.7	1.7
10°-20°	445.4	5.6
20°-30°	723.5	9.1
30°-40°	1117.9	14.0
40°-50°	1792.6	22.5
50°-60°	2450.0	30.8
60°-70°	1186.6	14.9
70°-80°	108.6	1.4
80°-90°	0.3	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°	7962.6	100.0
0°-180°	7962.6	100.0

Coefficient of Utilization



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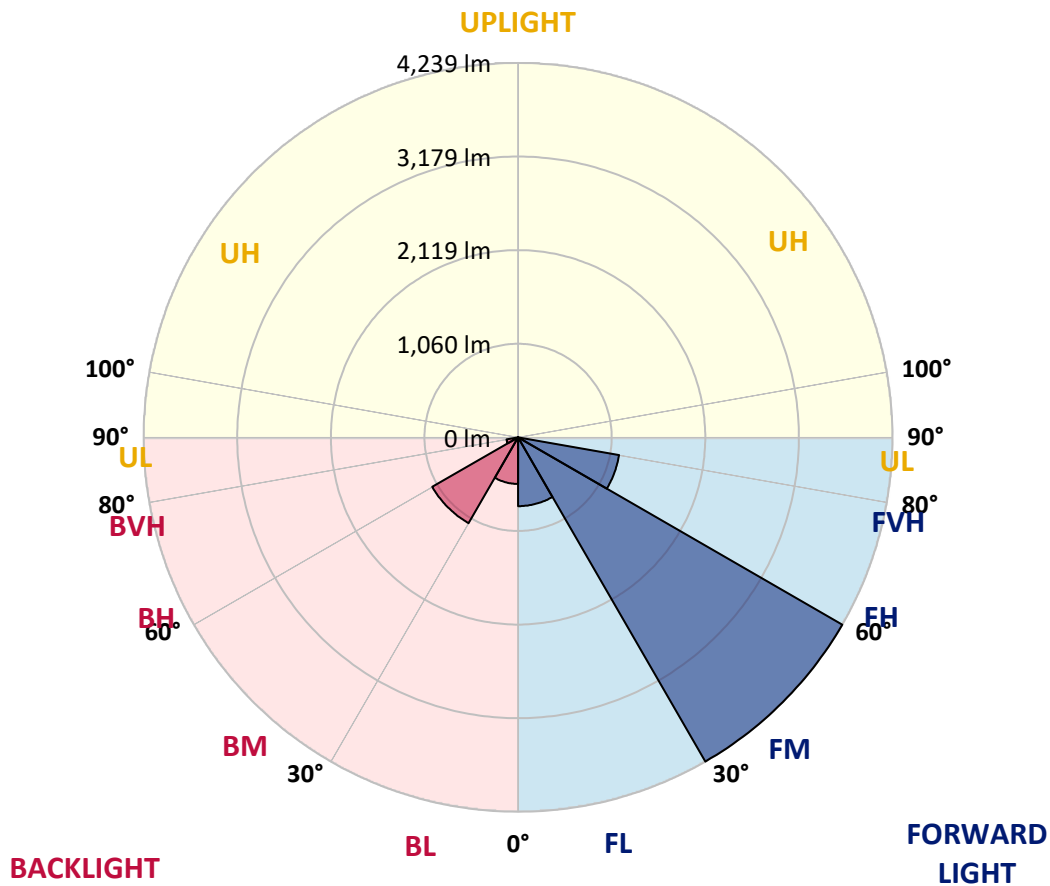
CATALOG NUMBER: GWS-SA2E-750-U-SLR-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	779.0	9.8			
FM (30°-60°)	4238.7	53.2			
FH (60°-80°)	1161.6	14.6			G1/1800
FVH (80°-90°)	0.3	0.0			G0/10
BL (0°-30°)	527.6	6.6	B2/1000		
BM (30°-60°)	1121.8	14.1	B2/2500		
BH (60°-80°)	133.6	1.7	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: B2-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1399.5	1399.5	1399.5	1399.5	1399.5	1399.5	1399.5	1399.5	1399.5	1399.5	1399.5
2.5°	1516.1	1525.8	1541.8	1576.1	1604.9	1624.2	1632.8	1630.6	1618.9	1610.3	1593.2
5°	1678.8	1678.8	1709.8	1787.9	1847.8	1885.3	1904.5	1892.8	1869.2	1831.8	1774.0
7.5°	1821.1	1826.4	1878.9	1990.1	2081.1	2134.6	2165.6	2159.2	2117.5	2045.8	1930.2
10°	1932.4	1938.8	2008.3	2144.2	2251.2	2305.8	2351.8	2356.1	2310.1	2214.8	2082.1
12.5°	2040.4	2046.8	2119.6	2250.1	2344.3	2366.8	2407.4	2423.5	2411.7	2344.3	2206.3
15°	2157.0	2172.0	2234.1	2331.5	2371.0	2344.3	2371.0	2399.9	2439.5	2433.1	2309.0
17.5°	2271.5	2282.2	2345.4	2379.6	2335.7	2266.2	2279.0	2313.3	2403.1	2490.9	2410.6
20°	2377.5	2392.4	2444.9	2399.9	2267.3	2159.2	2160.3	2205.2	2342.2	2526.2	2514.4
22.5°	2488.7	2511.2	2548.7	2422.4	2204.1	2074.7	2080.0	2120.7	2294.0	2559.4	2632.1
25°	2634.3	2655.6	2680.3	2478.0	2183.8	2032.9	2053.3	2090.7	2294.0	2616.1	2777.6
27.5°	2831.1	2846.1	2847.2	2581.8	2219.1	2039.4	2082.1	2124.9	2362.5	2729.5	2972.4
30°	3078.3	3101.8	3070.8	2743.4	2329.3	2124.9	2188.1	2241.6	2510.1	2921.0	3259.1
32.5°	3378.9	3412.1	3370.4	2983.1	2559.4	2420.3	2534.7	2565.8	2745.5	3198.1	3584.4
35°	3732.0	3759.9	3714.9	3314.7	3096.5	3122.2	3329.7	3290.1	3218.5	3539.4	3964.2
37.5°	4119.4	4145.0	4058.4	3817.6	3890.4	4001.7	4333.4	4197.5	3966.4	3979.2	4376.2
40°	4474.6	4502.4	4366.5	4364.4	4514.2	4717.5	5117.6	4930.4	4615.8	4554.8	4762.4
42.5°	4842.7	4861.9	4738.9	4655.4	4995.7	5414.0	5837.7	5585.2	5045.9	4979.6	5246.0
45°	5368.0	5408.7	5189.3	4798.8	5429.0	6215.4	6806.0	6312.8	5339.1	5285.6	5986.4
47.5°	6140.5	6170.5	5723.2	4888.7	5832.4	7213.7	8016.2	7256.5	5597.0	5475.0	6998.6
50°	6779.3	6799.6	6214.3	4987.1	6261.4	8290.1	9395.4	8375.7	5886.9	5788.5	7943.4
52.5°	7250.1	7327.1	6859.5	5189.3	6825.3	9555.8	10922.2	9701.4	6339.5	6394.1	8726.6
55°	7347.4	7452.3	7300.4	5313.4	7321.8	10845.2	12332.4	10887.9	6791.1	6853.1	8989.8
57.5°	6457.2	6540.7	6666.9	4812.7	7310.0	11435.8	13150.9	11281.7	6585.6	6145.9	8004.4
60°	4837.3	4895.1	5124.1	3678.5	6722.6	10913.6	12513.2	10611.9	5758.5	4689.7	6098.8
62.5°	2868.6	2894.3	3184.2	2382.8	5579.9	9398.6	10377.6	9156.7	4550.6	3154.3	3735.2
65°	1101.0	1090.3	1311.8	1175.9	4103.3	7486.5	7718.7	6980.4	3122.2	1445.5	1424.1
67.5°	170.1	162.6	219.3	347.7	2959.5	5188.3	5093.0	5031.0	1955.9	337.0	294.2
70°	38.5	38.5	47.1	102.7	1808.2	3048.3	3262.3	3110.4	1251.9	71.7	38.5
72.5°	18.2	18.2	22.5	43.9	654.8	1256.1	1463.7	1441.2	406.6	23.5	13.9
75°	6.4	7.5	7.5	9.6	39.6	65.3	149.8	107.0	25.7	0.0	0.0
77.5°	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.1	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1399.5	1399.5	1399.5	1399.5	1399.5	1399.5	1399.5	1399.5	1399.5	1399.5	1399.5
2.5°	1555.7	1548.2	1520.4	1483.0	1446.6	1414.5	1381.3	1341.7	1312.8	1279.7	1269.0
5°	1729.1	1682.0	1606.0	1526.8	1454.1	1392.0	1332.1	1267.9	1220.8	1173.8	1157.7
7.5°	1875.6	1806.1	1683.1	1564.3	1464.8	1377.0	1290.4	1202.6	1134.2	1078.5	1061.4
10°	2007.3	1927.0	1762.2	1615.6	1490.5	1388.8	1284.0	1173.8	1084.9	1018.6	1002.6
12.5°	2120.7	2027.6	1829.6	1654.2	1501.2	1384.5	1282.9	1195.1	1114.9	1038.9	1018.6
15°	2215.9	2113.2	1886.3	1679.8	1485.1	1331.0	1242.2	1228.3	1221.9	1138.4	1098.9
17.5°	2309.0	2193.4	1932.4	1691.6	1440.2	1236.9	1172.7	1235.8	1303.2	1248.6	1198.4
20°	2406.3	2274.7	1979.4	1693.8	1365.3	1131.0	1120.3	1219.8	1305.4	1288.2	1241.2
22.5°	2520.8	2376.4	2038.3	1692.7	1271.1	1041.1	1081.7	1188.7	1258.3	1257.2	1219.8
25°	2686.7	2504.8	2117.5	1699.1	1168.4	971.5	1038.9	1136.3	1193.0	1190.9	1159.8
27.5°	2864.3	2657.8	2220.2	1715.2	1080.7	930.9	988.6	1064.6	1113.8	1111.7	1084.9
30°	3113.6	2834.3	2318.6	1716.2	1017.5	909.5	933.0	985.4	1032.5	1027.2	1006.8
32.5°	3416.4	3033.3	2401.0	1655.2	977.9	889.1	875.2	902.0	938.4	930.9	925.5
35°	3782.3	3269.8	2471.6	1521.5	917.0	848.5	811.0	816.4	842.1	846.3	844.2
37.5°	4199.6	3551.2	2559.4	1344.9	834.6	789.6	739.3	735.1	750.0	764.0	774.7
40°	4611.5	3867.9	2678.1	1166.3	759.7	714.7	666.6	655.9	662.3	686.9	709.4
42.5°	5074.8	4234.9	2806.5	1013.3	708.3	632.3	586.3	566.0	584.2	623.8	650.5
45°	5742.5	4749.6	2931.7	891.3	686.9	559.6	497.5	495.4	515.7	567.1	597.0
47.5°	6679.8	5415.1	3014.1	796.1	685.8	502.9	429.1	441.9	465.4	515.7	550.0
50°	7593.5	6248.6	2923.1	723.3	663.4	465.4	377.7	403.4	426.9	470.8	506.1
52.5°	8144.6	6696.9	2569.0	654.8	593.8	448.3	327.4	372.3	376.6	416.2	453.7
55°	8086.8	6406.9	1967.7	548.9	491.1	423.7	275.0	336.0	338.1	368.1	400.2
57.5°	7019.0	5500.7	1351.4	445.1	369.1	349.9	226.8	283.5	303.9	322.1	345.6
60°	5231.1	4013.4	602.4	361.6	234.3	236.5	193.7	214.0	245.0	266.4	286.8
62.5°	3082.6	2309.0	245.0	217.2	129.5	148.7	156.2	156.2	175.5	191.5	204.4
65°	1165.2	807.8	99.5	109.1	67.4	69.5	92.0	113.4	128.4	142.3	159.4
67.5°	204.4	141.2	51.4	40.7	39.6	35.3	47.1	73.8	82.4	93.1	100.6
70°	34.2	28.9	21.4	20.3	18.2	19.3	31.0	52.4	57.8	61.0	64.2
72.5°	9.6	8.6	6.4	5.3	4.3	5.3	19.3	40.7	42.8	44.9	48.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	7.5	28.9	31.0	32.1	35.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	8.6	10.7	8.6
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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1399.5	1399.5	1399.5	1399.5	1399.5	1399.5	1399.5	1399.5	1399.5	1399.5	1399.5
2.5°	1262.6	1241.2	1229.4	1223.0	1223.0	1214.4	1204.8	1201.6	1215.5	1215.5	1239.0
5°	1137.4	1120.3	1101.0	1089.2	1071.0	1074.2	1063.5	1062.5	1076.4	1082.8	1107.4
7.5°	1050.7	1029.3	1017.5	1010.0	1000.4	996.1	986.5	983.3	990.8	1001.5	1025.0
10°	992.9	989.7	988.6	994.0	994.0	988.6	980.1	974.7	976.9	997.2	1024.0
12.5°	1007.9	1014.3	1016.5	1025.0	1029.3	1025.0	1018.6	1020.7	1034.7	1072.1	1111.7
15°	1073.2	1067.8	1065.7	1070.0	1073.2	1068.9	1066.8	1082.8	1131.0	1184.4	1229.4
17.5°	1142.7	1108.5	1093.5	1093.5	1095.6	1093.5	1095.6	1126.7	1204.8	1258.3	1291.4
20°	1178.0	1114.9	1091.4	1086.0	1090.3	1091.4	1098.9	1134.2	1219.8	1257.2	1264.7
22.5°	1167.3	1088.2	1061.4	1057.1	1061.4	1065.7	1073.2	1103.1	1183.4	1202.6	1199.4
25°	1113.8	1035.7	1014.3	1014.3	1024.0	1022.9	1026.1	1047.5	1113.8	1125.6	1120.3
27.5°	1046.4	972.6	954.4	965.1	973.7	971.5	972.6	990.8	1040.0	1043.2	1037.9
30°	977.9	913.7	896.6	909.5	921.2	919.1	920.2	938.4	969.4	966.2	958.7
32.5°	908.4	861.3	848.5	856.0	874.2	872.0	876.3	895.6	907.3	893.4	884.9
35°	844.2	819.6	810.0	814.2	828.2	831.4	838.9	851.7	851.7	834.6	819.6
37.5°	784.3	781.1	774.7	769.3	782.1	791.8	802.5	817.5	796.1	771.4	757.5
40°	728.6	742.6	734.0	720.1	727.6	741.5	762.9	774.7	749.0	724.4	700.8
42.5°	677.3	700.8	697.6	680.5	686.9	699.8	724.4	734.0	704.0	676.2	653.7
45°	628.1	661.2	663.4	642.0	648.4	661.2	690.1	693.3	654.8	624.9	608.8
47.5°	585.3	621.6	622.7	606.7	608.8	627.0	653.7	654.8	610.9	583.1	562.8
50°	544.6	586.3	589.5	575.6	577.8	599.2	621.6	617.4	570.3	541.4	523.2
52.5°	495.4	552.1	559.6	553.2	561.7	578.9	592.8	577.8	523.2	494.3	478.3
55°	441.9	515.7	531.8	527.5	537.1	551.0	554.2	544.6	476.1	447.2	432.3
57.5°	379.8	424.8	452.6	444.0	451.5	465.4	475.1	467.6	416.2	393.7	380.9
60°	314.6	344.5	350.9	337.0	330.6	355.2	377.7	368.1	324.2	310.3	295.3
62.5°	230.0	264.3	268.6	250.4	242.9	269.6	288.9	279.3	231.1	216.1	204.4
65°	184.0	216.1	224.7	207.6	203.3	223.6	235.4	211.9	177.6	161.6	148.7
67.5°	120.9	146.6	169.1	168.0	159.4	165.8	157.3	138.0	113.4	104.9	96.3
70°	74.9	89.9	103.8	109.1	108.1	105.9	94.2	80.2	72.8	69.5	65.3
72.5°	57.8	72.8	83.5	86.7	87.7	84.5	74.9	62.1	54.6	50.3	47.1
75°	42.8	54.6	63.1	67.4	69.5	67.4	57.8	49.2	41.7	38.5	35.3
77.5°	15.0	18.2	22.5	24.6	23.5	22.5	20.3	20.3	16.0	15.0	12.8
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: P633368

CATALOG NUMBER: GWS-SA2E-750-U-SLR-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1399.5	1399.5	1399.5	1399.5	1399.5	1399.5	1399.5	1399.5	1399.5	1399.5
2.5°	1265.8	1285.0	1320.3	1352.4	1386.7	1422.0	1460.5	1500.1	1518.3	1516.1
5°	1144.9	1186.6	1244.4	1307.5	1378.1	1454.1	1538.6	1625.3	1662.7	1678.8
7.5°	1068.9	1127.7	1203.7	1284.0	1377.0	1485.1	1612.4	1748.3	1802.9	1821.1
10°	1078.5	1147.0	1210.1	1288.2	1387.7	1527.9	1686.3	1847.8	1912.0	1932.4
12.5°	1156.6	1171.6	1188.7	1252.9	1378.1	1560.0	1753.7	1946.3	2020.1	2040.4
15°	1227.2	1157.7	1125.6	1184.4	1343.9	1582.5	1822.1	2052.2	2133.5	2157.0
17.5°	1230.5	1125.6	1053.9	1099.9	1288.2	1592.1	1889.6	2160.3	2249.1	2271.5
20°	1190.9	1090.3	998.3	999.3	1212.3	1590.0	1945.2	2257.6	2357.1	2377.5
22.5°	1133.1	1048.6	953.3	920.2	1131.0	1585.7	2006.2	2361.4	2469.5	2488.7
25°	1068.9	995.1	910.5	860.3	1049.6	1590.0	2091.8	2497.3	2616.1	2634.3
27.5°	999.3	936.2	877.4	836.7	981.2	1606.0	2194.5	2670.6	2811.9	2831.1
30°	926.6	879.5	856.0	831.4	938.4	1610.3	2305.8	2872.9	3051.5	3078.3
32.5°	854.9	829.2	830.3	834.6	897.7	1580.3	2407.4	3097.5	3336.1	3378.9
35°	788.6	781.1	802.5	823.9	838.9	1503.3	2496.2	3362.9	3688.2	3732.0
37.5°	731.9	738.3	765.0	786.4	774.7	1394.2	2613.9	3694.6	4081.9	4119.4
40°	677.3	693.3	724.4	734.0	725.4	1266.8	2755.2	4014.5	4423.2	4474.6
42.5°	627.0	638.8	682.6	684.8	711.5	1137.4	2891.0	4359.0	4815.9	4842.7
45°	586.3	584.2	629.1	643.0	729.7	994.0	3023.7	4818.0	5329.5	5368.0
47.5°	546.8	544.6	555.3	618.4	737.2	861.3	3155.3	5490.0	6074.2	6140.5
50°	509.3	512.5	479.3	606.7	696.5	759.7	3215.2	6111.6	6751.5	6779.3
52.5°	476.1	464.4	406.6	568.2	609.9	663.4	3045.1	6394.1	7170.9	7250.1
55°	429.1	363.8	334.9	461.2	481.5	578.9	2494.1	6230.4	7207.3	7347.4
57.5°	367.0	285.7	284.6	340.2	340.2	537.1	1597.5	5323.1	6211.1	6457.2
60°	282.5	221.5	235.4	236.5	218.3	391.6	896.6	3856.1	4592.3	4837.3
62.5°	201.2	169.1	177.6	141.2	125.2	195.8	430.1	2220.2	2834.3	2868.6
65°	134.8	114.5	93.1	78.1	77.0	83.5	177.6	802.5	975.8	1101.0
67.5°	88.8	69.5	49.2	49.2	55.6	55.6	67.4	132.7	186.2	170.1
70°	57.8	48.1	31.0	30.0	36.4	36.4	34.2	36.4	38.5	38.5
72.5°	42.8	36.4	18.2	16.0	20.3	21.4	19.3	18.2	18.2	18.2
75°	32.1	25.7	10.7	7.5	9.6	12.8	10.7	7.5	7.5	6.4
77.5°	12.8	9.6	4.3	3.2	5.3	7.5	6.4	3.2	2.1	2.1
80°	1.1	2.1	2.1	2.1	3.2	4.3	5.3	2.1	1.1	1.1
82.5°	0.0	1.1	1.1	1.1	2.1	3.2	4.3	2.1	1.1	1.1
85°	0.0	0.0	0.0	0.0	2.1	3.2	2.1	1.1	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	1.1	3.2	2.1	1.1	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

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