

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: P633914

Luminaire Tested: GWS-SA2F-760-U-SLL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633914
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-SA2F-760-U-SLL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8776.3 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

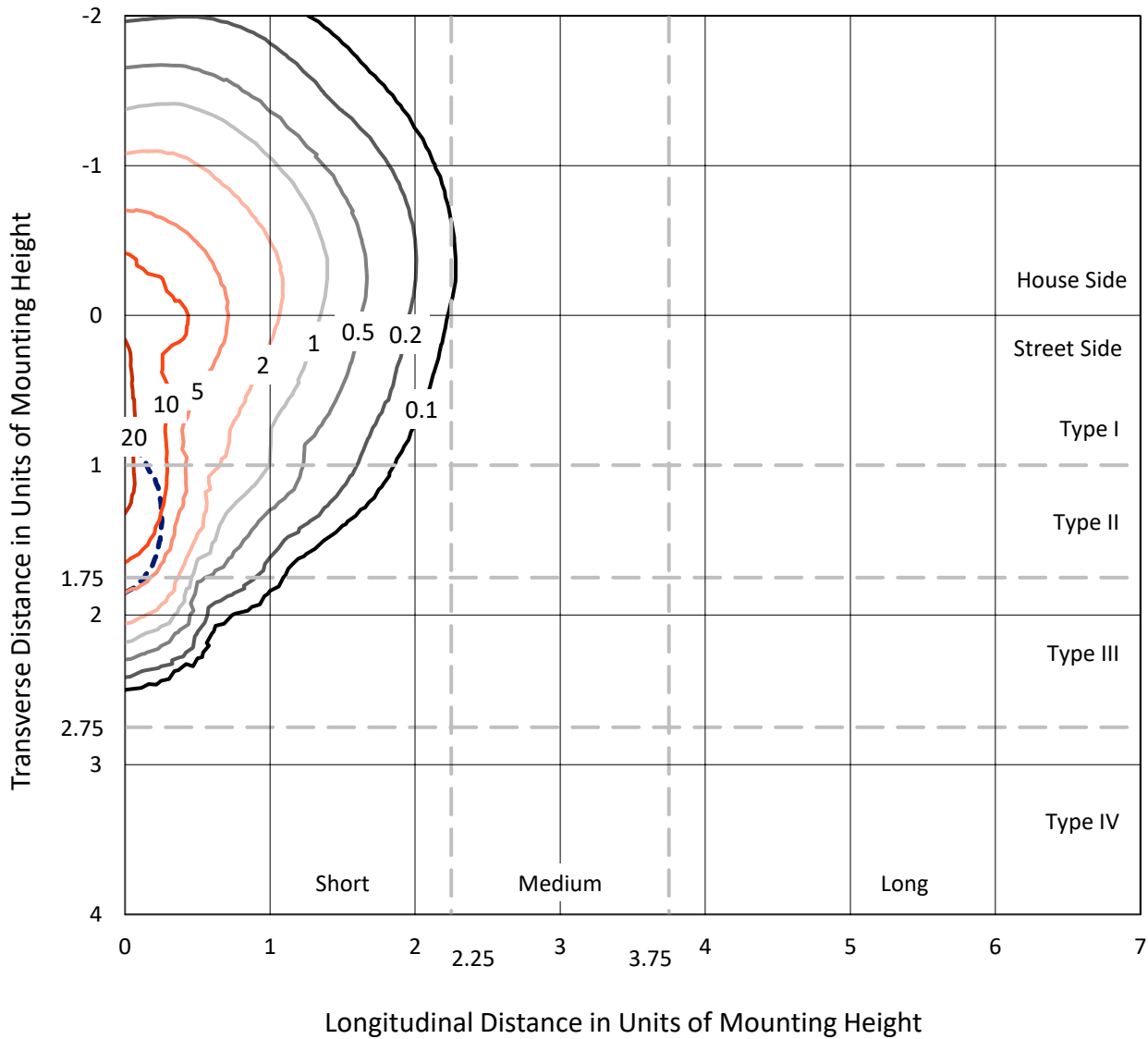
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

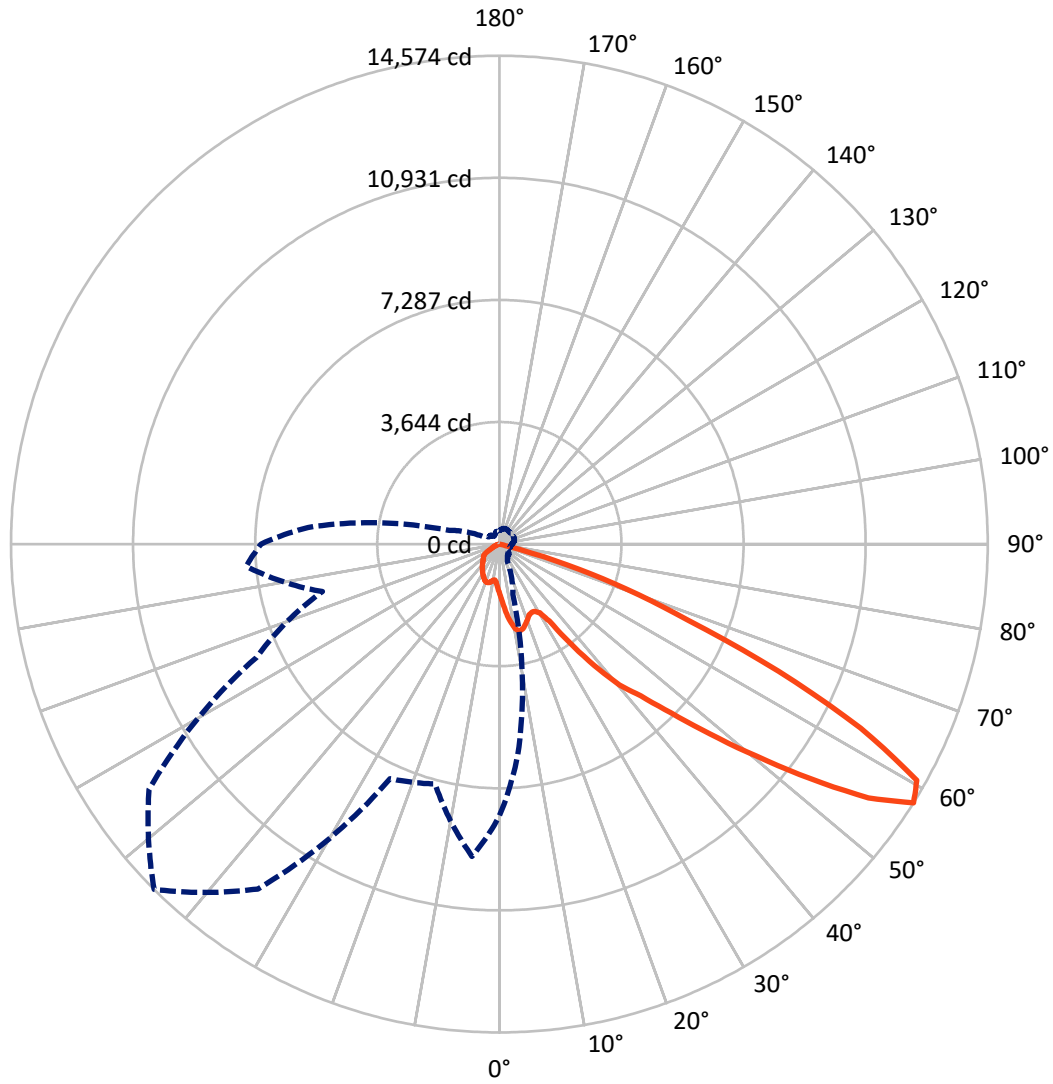
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 23.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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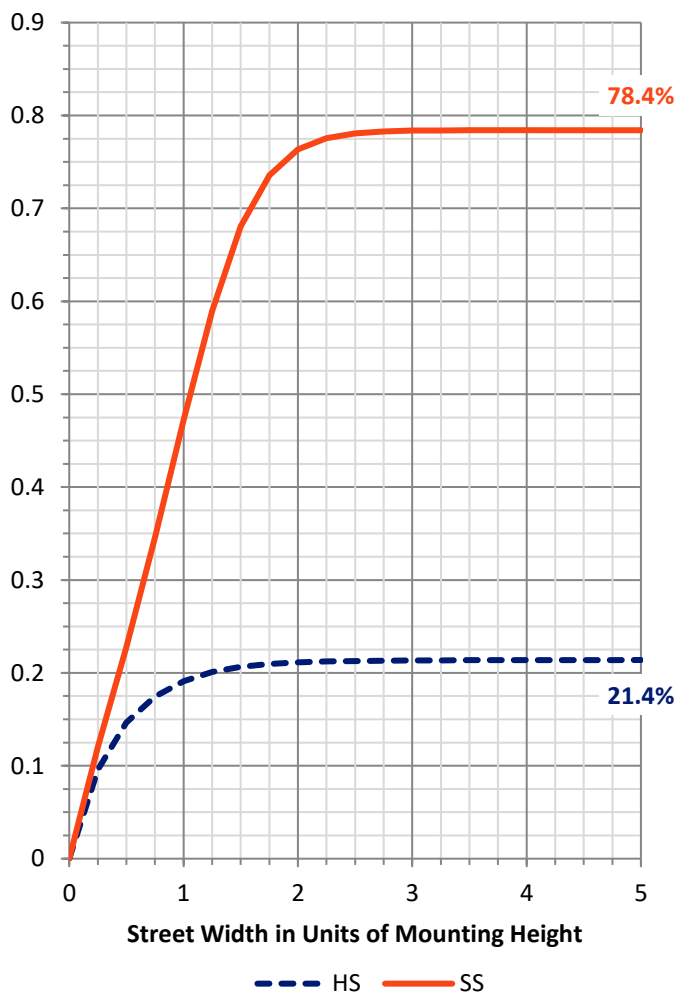
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1890.7	0.0	1890.7
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	6885.6	0.0	6885.6
	% Fixture	78.5	0.0	78.5
Total	Lumens	8776.3	0.0	8776.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.4	1.7
10°-20°	485.0	5.5
20°-30°	787.1	9.0
30°-40°	1208.0	13.8
40°-50°	1929.2	22.0
50°-60°	2701.3	30.8
60°-70°	1385.0	15.8
70°-80°	133.3	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°	8776.3	100.0
0°-180°	8776.3	100.0

Coefficient of Utilization



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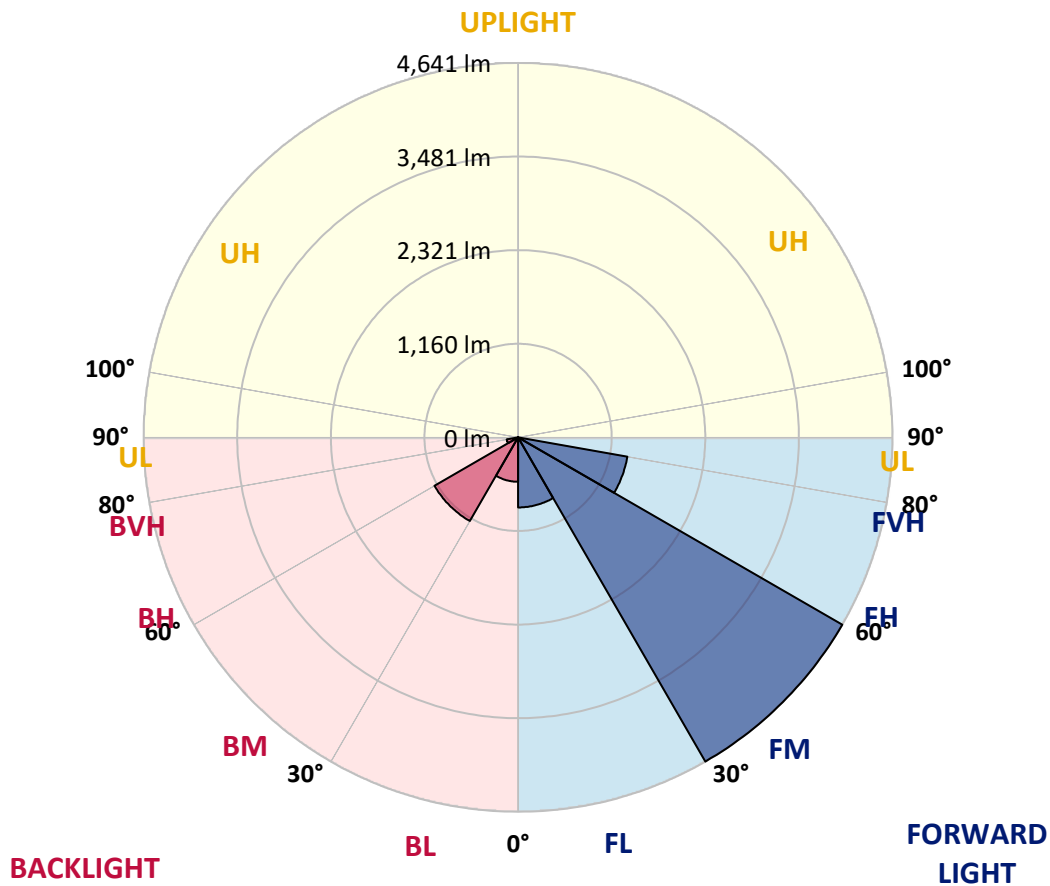
CATALOG NUMBER: GWS-SA2F-760-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	868.9	9.9			
FM (30°-60°)	4641.1	52.9			
FH (60°-80°)	1375.6	15.7			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	550.5	6.3	B2/1000		
BM (30°-60°)	1197.4	13.6	B2/2500		
BH (60°-80°)	142.8	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: 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°	1491.2	1491.2	1491.2	1491.2	1491.2	1491.2	1491.2	1491.2	1491.2	1491.2	1491.2
2.5°	1656.7	1653.1	1641.4	1601.5	1576.9	1538.2	1510.0	1473.6	1433.7	1409.1	1384.5
5°	1832.6	1823.3	1791.6	1700.1	1629.7	1553.4	1492.4	1425.5	1354.0	1307.0	1263.6
7.5°	2001.6	1987.5	1945.3	1790.4	1683.6	1574.5	1487.7	1390.3	1289.4	1219.0	1165.1
10°	2167.0	2135.3	2068.5	1878.4	1734.1	1602.7	1500.6	1389.1	1270.6	1181.5	1121.6
12.5°	2303.1	2279.7	2188.1	1961.7	1776.3	1608.6	1483.0	1379.8	1300.0	1240.1	1185.0
15°	2420.5	2394.6	2307.8	2036.8	1812.7	1585.1	1409.1	1318.8	1331.7	1355.1	1308.2
17.5°	2528.4	2501.4	2407.5	2099.0	1826.8	1527.6	1305.8	1262.4	1334.0	1422.0	1404.4
20°	2639.9	2609.3	2494.4	2149.4	1822.1	1437.3	1201.4	1214.3	1315.2	1416.1	1425.5
22.5°	2770.1	2738.4	2604.7	2214.0	1818.6	1329.3	1111.1	1172.1	1280.0	1365.7	1382.1
25°	2942.6	2905.0	2758.4	2309.0	1828.0	1230.8	1046.6	1131.0	1220.2	1297.6	1307.0
27.5°	3170.2	3122.1	2935.5	2426.3	1847.9	1153.3	1018.4	1074.7	1143.9	1213.2	1221.4
30°	3467.0	3406.0	3138.5	2528.4	1838.5	1099.4	999.6	1018.4	1059.5	1115.8	1117.0
32.5°	3814.3	3731.0	3366.1	2616.4	1757.6	1059.5	973.8	960.9	970.3	1013.7	1021.9
35°	4222.6	4114.7	3617.2	2699.7	1609.7	982.0	926.9	883.5	880.0	901.1	921.0
37.5°	4690.7	4561.7	3934.0	2806.5	1434.9	901.1	857.7	814.2	795.5	806.0	836.5
40°	5122.5	4979.3	4264.8	2935.5	1256.6	828.3	776.7	732.1	709.8	713.3	750.9
42.5°	5629.3	5481.5	4669.6	3104.5	1108.7	779.0	692.2	646.5	617.1	633.6	677.0
45°	6399.0	6231.2	5259.8	3251.1	991.4	767.3	618.3	553.8	539.7	567.9	619.5
47.5°	7450.3	7244.9	6070.5	3340.3	891.7	777.9	566.7	478.7	482.2	513.9	565.5
50°	8493.3	8271.5	7007.9	3223.0	809.6	756.8	540.9	420.0	442.3	470.5	517.4
52.5°	9210.2	8921.5	7464.3	2883.9	734.5	677.0	538.5	364.9	407.1	416.5	456.4
55°	9238.3	8882.8	7230.8	2273.8	632.4	571.4	513.9	319.1	368.4	371.9	406.0
57.5°	8097.9	7776.4	6319.2	1561.6	562.0	418.9	409.5	279.2	302.7	332.0	353.2
60°	6160.8	5887.5	4725.9	715.7	427.1	266.3	280.4	240.5	226.4	269.9	291.0
62.5°	3773.2	3598.4	2834.6	316.8	272.2	142.0	170.1	191.2	170.1	186.5	204.1
65°	1498.3	1420.8	1075.9	134.9	111.5	71.6	77.4	111.5	119.7	131.4	147.8
67.5°	260.5	246.4	180.7	59.8	45.8	43.4	37.5	51.6	72.7	81.0	93.9
70°	34.0	32.9	29.3	24.6	23.5	21.1	16.4	32.9	49.3	51.6	59.8
72.5°	8.2	7.0	7.0	5.9	7.0	2.3	2.3	17.6	35.2	36.4	42.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	22.3	24.6	29.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1491.2	1491.2	1491.2	1491.2	1491.2	1491.2	1491.2	1491.2	1491.2	1491.2	1491.2
2.5°	1364.5	1341.0	1332.8	1321.1	1305.8	1310.5	1289.4	1282.4	1292.9	1307.0	1303.5
5°	1240.1	1214.3	1196.7	1169.7	1165.1	1154.5	1147.5	1138.1	1149.8	1166.2	1169.7
7.5°	1141.6	1119.3	1101.7	1093.5	1087.6	1082.9	1068.8	1061.8	1061.8	1068.8	1074.7
10°	1099.4	1082.9	1079.4	1081.8	1091.1	1090.0	1077.1	1067.7	1055.9	1050.1	1057.1
12.5°	1158.0	1131.0	1126.3	1127.5	1139.2	1138.1	1124.0	1112.3	1109.9	1112.3	1134.5
15°	1257.7	1216.7	1186.2	1180.3	1186.2	1183.8	1173.3	1166.2	1169.7	1203.8	1241.3
17.5°	1346.9	1283.6	1228.4	1207.3	1206.1	1202.6	1192.0	1189.7	1207.3	1270.6	1325.8
20°	1372.7	1310.5	1231.9	1204.9	1199.1	1195.6	1183.8	1187.3	1209.6	1285.9	1332.8
22.5°	1338.7	1278.9	1196.7	1169.7	1165.1	1163.9	1152.1	1156.8	1175.6	1242.5	1281.2
25°	1274.2	1223.7	1138.1	1114.6	1114.6	1112.3	1101.7	1104.0	1115.8	1174.4	1212.0
27.5°	1195.6	1147.5	1075.9	1052.4	1055.9	1059.5	1046.6	1043.0	1052.4	1107.6	1129.9
30°	1105.2	1071.2	1014.9	993.8	992.6	1006.7	989.1	984.4	997.3	1040.7	1045.4
32.5°	1017.2	1000.8	960.9	944.5	945.7	948.0	938.6	938.6	950.3	973.8	972.6
35°	931.6	921.0	914.0	902.2	901.1	896.4	896.4	898.7	911.6	919.8	904.6
37.5°	849.4	860.0	868.2	856.5	847.1	847.1	847.1	857.7	869.4	865.9	840.1
40°	776.7	799.0	824.8	811.9	789.6	788.4	793.1	810.7	828.3	807.2	783.7
42.5°	714.5	742.7	779.0	772.0	747.4	743.9	747.4	769.7	783.7	756.8	730.9
45°	653.5	688.7	732.1	732.1	705.1	701.6	702.8	732.1	740.3	708.7	675.8
47.5°	601.9	640.6	686.4	686.4	664.1	657.0	662.9	693.4	699.3	654.7	624.2
50°	552.6	594.8	645.3	641.8	626.5	620.7	631.2	664.1	657.0	607.8	576.1
52.5°	490.4	535.0	604.2	607.8	599.5	600.7	613.6	634.7	614.8	555.0	528.0
55°	434.1	479.9	549.1	567.9	567.9	566.7	572.6	589.0	572.6	501.0	468.1
57.5°	373.1	411.8	469.3	474.0	477.5	464.6	472.8	495.1	486.9	425.9	407.1
60°	306.2	339.1	371.9	375.4	360.2	333.2	348.5	374.3	380.1	334.4	313.3
62.5°	217.1	248.7	287.5	287.5	272.2	245.2	265.2	287.5	279.2	232.3	219.4
65°	161.9	191.2	220.6	233.5	220.6	201.8	217.1	233.5	220.6	181.9	163.1
67.5°	104.4	124.4	142.0	152.5	154.9	152.5	159.6	154.9	139.6	113.8	103.2
70°	63.4	73.9	83.3	92.7	99.7	103.2	106.8	96.2	81.0	66.9	63.4
72.5°	45.8	55.1	63.4	70.4	78.6	81.0	81.0	73.9	59.8	46.9	43.4
75°	31.7	39.9	46.9	51.6	58.7	61.0	61.0	55.1	44.6	34.0	30.5
77.5°	1.2	8.2	8.2	7.0	9.4	11.7	11.7	14.1	12.9	9.4	8.2
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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1491.2	1491.2	1491.2	1491.2	1491.2	1491.2	1491.2	1491.2	1491.2	1491.2	1491.2
2.5°	1310.5	1352.8	1364.5	1407.9	1446.6	1485.4	1532.3	1560.4	1602.7	1632.0	1648.4
5°	1181.5	1216.7	1258.9	1323.4	1390.3	1464.2	1553.4	1630.8	1728.2	1799.8	1823.3
7.5°	1087.6	1133.4	1182.7	1263.6	1355.1	1453.7	1579.2	1705.9	1854.9	1952.3	2014.5
10°	1070.0	1117.0	1182.7	1262.4	1358.6	1471.3	1625.0	1789.2	1975.8	2094.3	2164.7
12.5°	1154.5	1204.9	1233.1	1269.5	1342.2	1467.8	1664.9	1873.7	2093.1	2222.2	2297.3
15°	1278.9	1323.4	1277.7	1231.9	1278.9	1430.2	1687.2	1944.1	2196.4	2345.4	2422.8
17.5°	1364.5	1368.0	1268.3	1170.9	1183.8	1362.2	1695.4	2014.5	2306.6	2462.7	2543.6
20°	1356.3	1328.1	1227.2	1119.3	1079.4	1274.2	1686.0	2076.7	2418.1	2581.2	2661.0
22.5°	1292.9	1260.1	1174.4	1068.8	991.4	1169.7	1669.6	2133.0	2520.2	2705.6	2780.6
25°	1216.7	1181.5	1111.1	1018.4	935.1	1068.8	1656.7	2210.4	2649.2	2867.5	2926.1
27.5°	1127.5	1097.0	1037.2	970.3	911.6	992.6	1653.1	2312.5	2805.3	3064.6	3105.6
30°	1040.7	1012.5	965.6	926.9	902.2	948.0	1641.4	2421.6	2991.8	3291.0	3335.6
32.5°	957.4	929.2	899.9	894.0	895.2	931.6	1601.5	2529.6	3213.6	3619.5	3652.4
35°	885.8	853.0	841.2	855.3	881.1	903.4	1488.9	2618.7	3451.8	3977.4	4004.4
37.5°	817.8	784.9	783.7	817.8	845.9	860.0	1356.3	2706.7	3773.2	4341.1	4375.1
40°	755.6	722.7	734.5	775.5	797.8	804.9	1195.6	2840.5	4113.5	4724.7	4706.0
42.5°	702.8	668.8	675.8	728.6	748.5	767.3	1047.7	2951.9	4440.8	5088.5	5082.6
45°	651.2	625.4	620.7	678.1	695.7	770.8	939.8	3037.6	4862.0	5551.9	5561.3
47.5°	600.7	580.8	581.9	606.6	650.0	788.4	848.3	3093.9	5473.3	6286.4	6123.3
50°	555.0	539.7	552.6	524.5	620.7	766.1	769.7	3082.2	6156.1	6990.3	6663.0
52.5°	504.5	501.0	506.9	438.8	573.7	675.8	695.7	2926.1	6476.4	7471.4	7284.8
55°	452.9	451.7	404.8	350.8	479.9	539.7	596.0	2441.6	6465.9	7727.1	7953.6
57.5°	391.9	382.5	307.4	286.3	373.1	375.4	543.2	1599.2	5730.2	7114.7	7584.0
60°	296.8	289.8	225.3	232.3	260.5	240.5	432.9	796.6	4282.4	5542.5	6071.7
62.5°	205.3	195.9	167.8	179.5	167.8	137.3	265.2	394.2	2594.1	3499.9	3979.7
65°	150.2	139.6	115.0	98.6	78.6	78.6	100.9	151.4	1004.3	1487.7	1793.9
67.5°	92.7	88.0	68.0	49.3	48.1	51.6	52.8	75.1	161.9	258.1	315.6
70°	59.8	55.1	45.8	31.7	29.3	30.5	31.7	35.2	41.1	44.6	54.0
72.5°	41.1	38.7	32.9	17.6	14.1	15.3	16.4	16.4	19.9	18.8	22.3
75°	29.3	27.0	23.5	8.2	4.7	5.9	7.0	5.9	7.0	4.7	5.9
77.5°	8.2	8.2	5.9	1.2	0.0	1.2	2.3	2.3	1.2	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	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: P633914

CATALOG NUMBER: GWS-SA2F-760-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1491.2	1491.2	1491.2	1491.2	1491.2	1491.2	1491.2	1491.2	1491.2	1491.2
2.5°	1690.7	1717.7	1728.2	1713.0	1725.9	1704.8	1696.5	1664.9	1662.5	1656.7
5°	1918.3	1979.3	2015.7	2038.0	2012.2	1984.0	1941.8	1869.0	1846.7	1832.6
7.5°	2142.4	2237.4	2299.6	2328.9	2321.9	2264.4	2188.1	2066.1	2022.7	2001.6
10°	2337.1	2453.3	2528.4	2564.8	2549.5	2499.1	2389.9	2237.4	2179.9	2167.0
12.5°	2473.2	2580.0	2631.6	2663.3	2664.5	2644.5	2541.3	2387.6	2319.6	2303.1
15°	2558.9	2604.7	2605.8	2624.6	2657.5	2702.0	2653.9	2517.8	2445.1	2420.5
17.5°	2612.9	2562.4	2510.8	2515.5	2569.5	2688.0	2737.2	2632.8	2555.4	2528.4
20°	2651.6	2492.0	2395.8	2397.0	2452.1	2631.6	2794.7	2744.3	2664.5	2639.9
22.5°	2676.2	2429.8	2292.6	2289.0	2347.7	2564.8	2847.5	2876.9	2798.2	2770.1
25°	2726.7	2400.5	2230.4	2250.3	2302.0	2543.6	2919.1	3052.8	2980.1	2942.6
27.5°	2817.0	2429.8	2224.5	2270.3	2328.9	2605.8	3043.5	3287.5	3212.4	3170.2
30°	2973.1	2540.1	2314.9	2378.2	2448.6	2768.9	3252.3	3614.8	3506.9	3467.0
32.5°	3224.1	2768.9	2594.1	2730.2	2798.2	3036.4	3565.6	3982.1	3894.1	3814.3
35°	3570.3	3291.0	3271.1	3587.9	3571.4	3543.3	3950.4	4432.6	4300.0	4222.6
37.5°	4046.6	4131.1	4278.9	4593.3	4582.8	4368.1	4456.1	4858.5	4790.5	4690.7
40°	4641.4	4821.0	5072.0	5522.6	5381.8	5111.9	5076.7	5295.0	5239.8	5122.5
42.5°	4992.3	5302.0	5780.7	6185.5	6072.8	5601.2	5561.3	5878.1	5757.2	5629.3
45°	5155.3	5693.9	6632.5	7180.4	6839.0	5926.2	5910.9	6638.3	6570.3	6399.0
47.5°	5230.4	6089.3	7629.8	8459.3	7821.0	6211.3	6156.1	7741.2	7652.1	7450.3
50°	5313.7	6634.8	8831.2	9941.1	9007.2	6533.9	6573.8	8769.0	8731.5	8493.3
52.5°	5496.8	7212.1	10310.7	11635.3	10445.6	7039.6	7290.7	9738.1	9484.7	9210.2
55°	5771.3	7840.9	11850.0	13365.9	11913.4	7718.9	8066.2	10253.2	9542.2	9238.3
57.5°	5467.4	7998.2	12761.6	14574.3	12564.5	7721.3	7410.4	9360.3	8392.4	8097.9
60°	4338.7	7440.9	12410.8	14312.7	12009.6	6856.6	5673.9	7308.3	6357.9	6160.8
62.5°	2933.2	6240.6	10925.5	12104.6	10279.0	5393.5	3687.6	4752.9	3936.3	3773.2
65°	1607.4	4655.5	8827.7	9157.4	8045.1	3767.4	1897.2	2062.6	1571.0	1498.3
67.5°	443.5	3240.6	6495.2	6075.2	5644.6	2453.3	490.4	368.4	262.8	260.5
70°	111.5	2143.6	3891.7	4011.4	3461.1	1571.0	93.9	44.6	35.2	34.0
72.5°	46.9	922.2	1846.7	2122.4	1771.6	727.4	34.0	12.9	10.6	8.2
75°	5.9	73.9	157.2	238.2	163.1	78.6	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)