

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: P633918

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633918
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-SA2F-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8731.7 lumens
Efficiency: N/A
Efficacy: 70.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

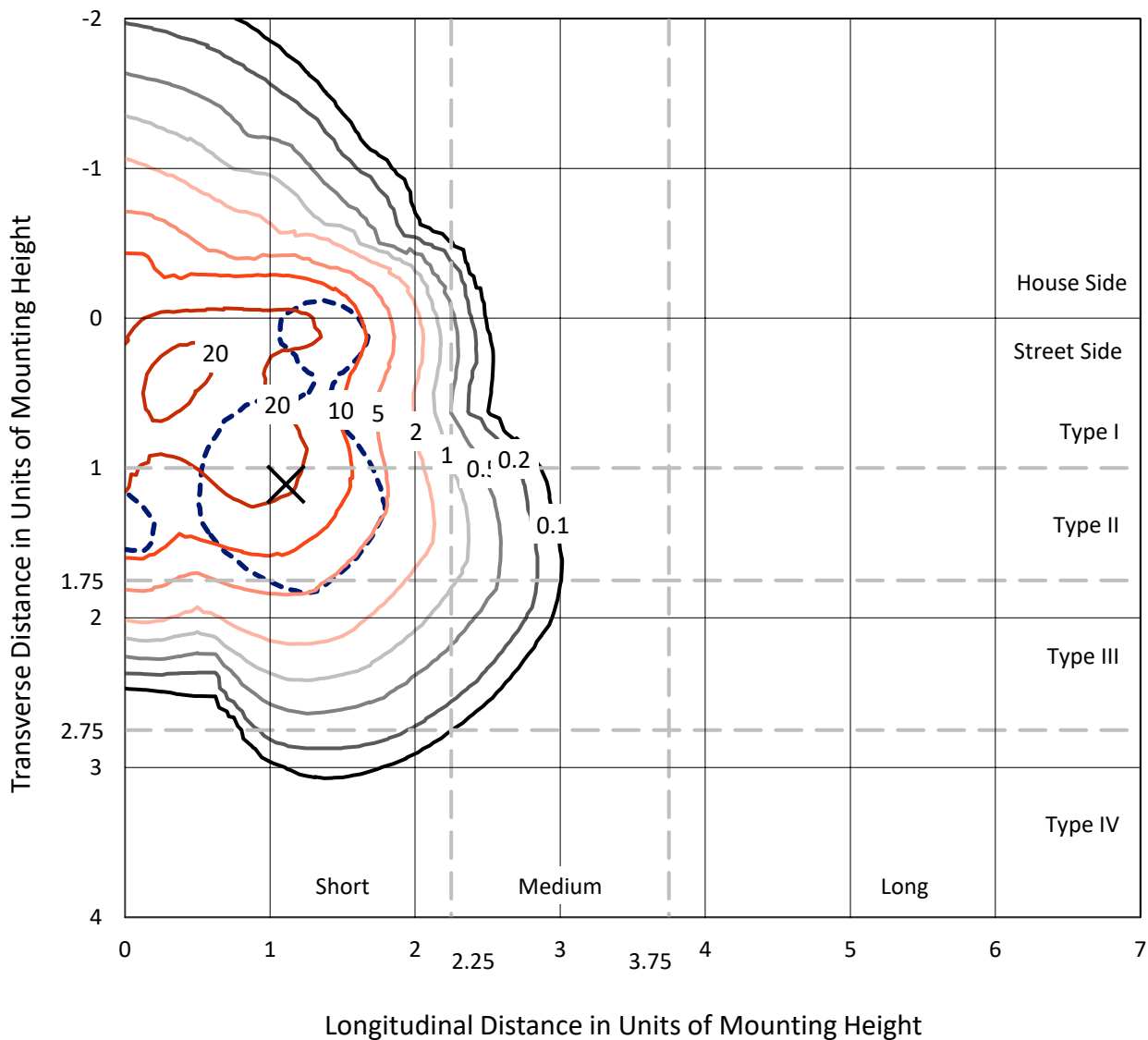
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

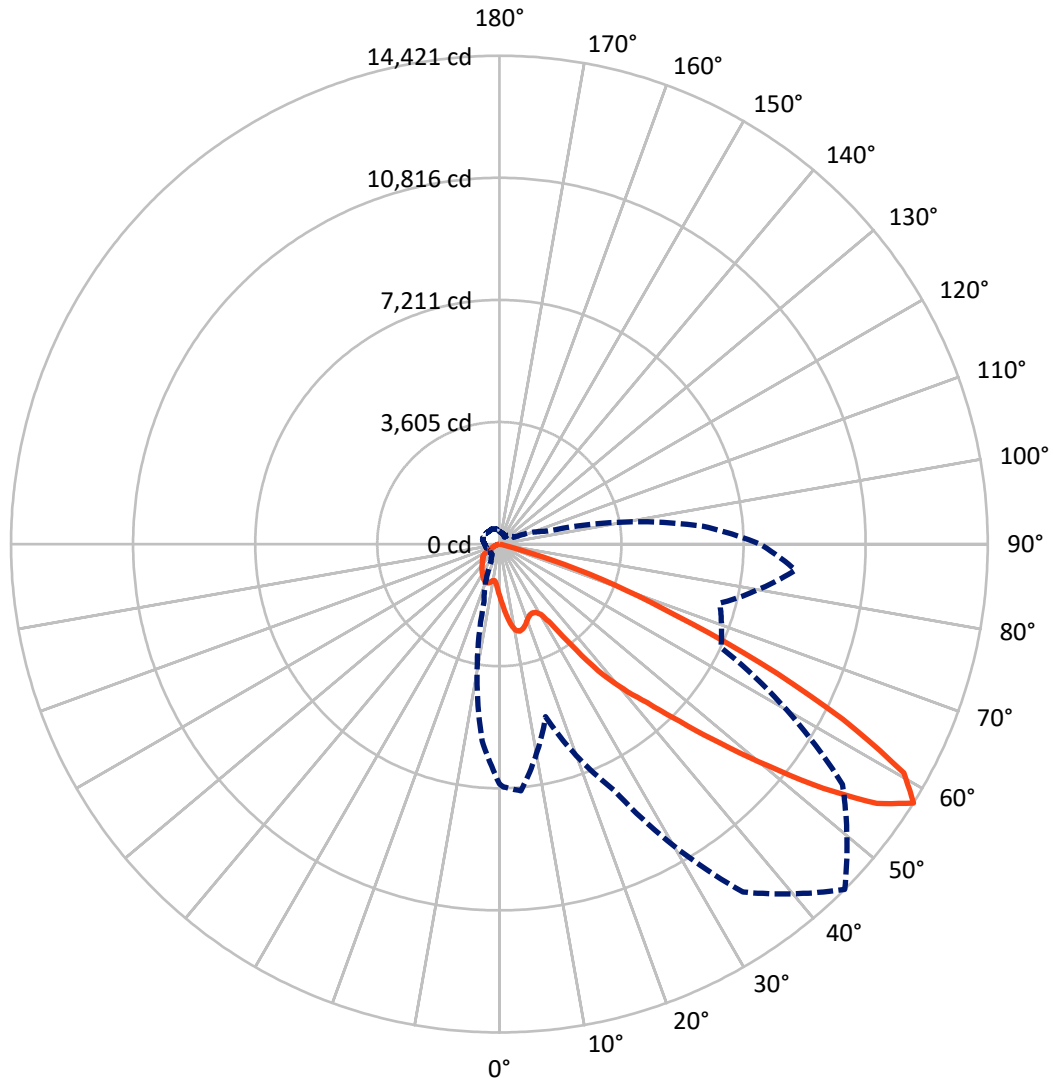
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 27.3 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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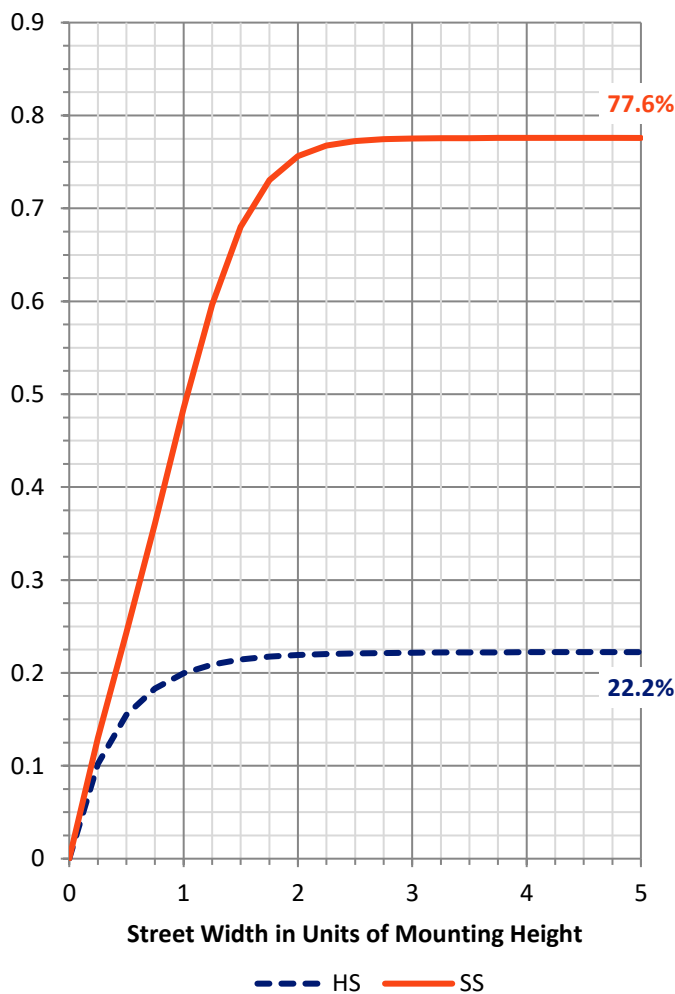
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1955.3	0.0	1955.3
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	6776.4	0.0	6776.4
	% Fixture	77.6	0.0	77.6
Total	Lumens	8731.7	0.0	8731.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.0	1.7
10°-20°	488.4	5.6
20°-30°	793.4	9.1
30°-40°	1225.9	14.0
40°-50°	1965.7	22.5
50°-60°	2686.6	30.8
60°-70°	1301.2	14.9
70°-80°	119.1	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°	8731.7	100.0
0°-180°	8731.7	100.0

Coefficient of Utilization



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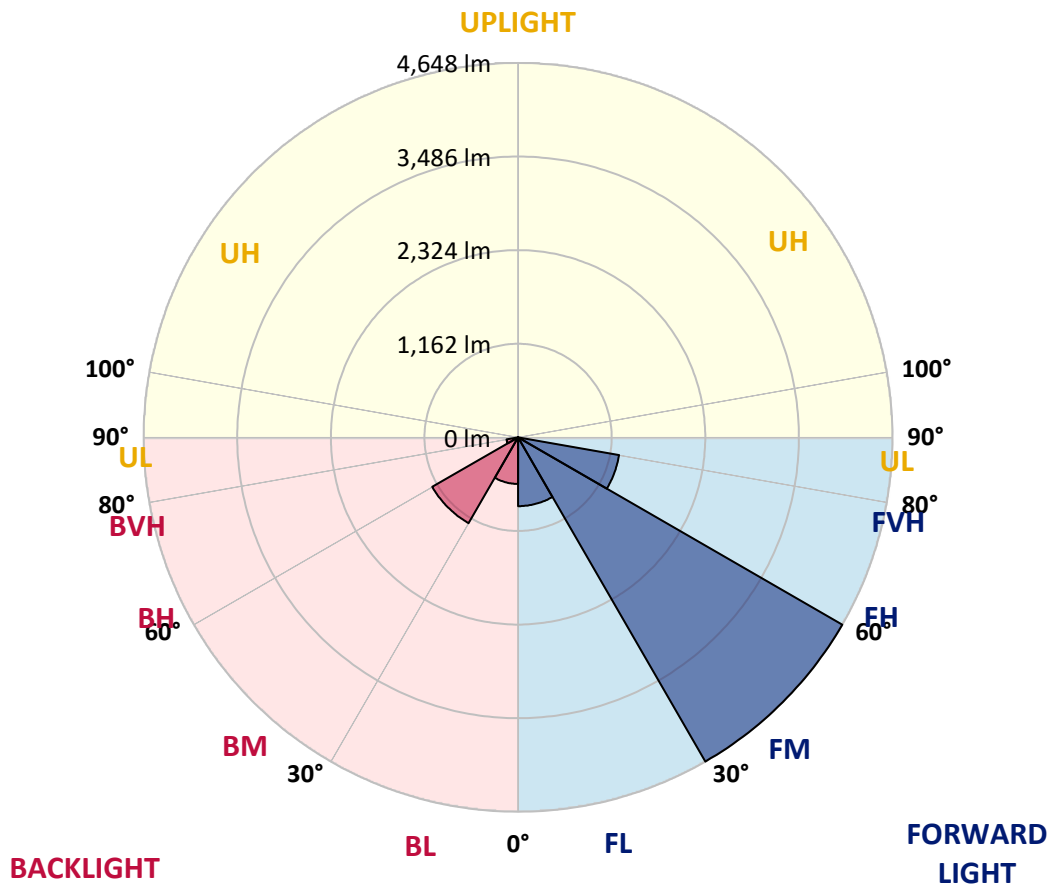
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	854.2	9.8			
FM (30°-60°)	4648.1	53.2			
FH (60°-80°)	1273.8	14.6			G1/1800
FVH (80°-90°)	0.3	0.0			G0/10
BL (0°-30°)	578.5	6.6	B2/1000		
BM (30°-60°)	1230.2	14.1	B2/2500		
BH (60°-80°)	146.6	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°	1534.7	1534.7	1534.7	1534.7	1534.7	1534.7	1534.7	1534.7	1534.7	1534.7	1534.7
2.5°	1662.6	1673.1	1690.7	1728.3	1760.0	1781.1	1790.5	1788.1	1775.2	1765.8	1747.1
5°	1840.9	1840.9	1875.0	1960.6	2026.3	2067.4	2088.5	2075.6	2049.8	2008.7	1945.3
7.5°	1997.0	2002.8	2060.3	2182.4	2282.1	2340.8	2374.8	2367.7	2322.0	2243.4	2116.7
10°	2119.0	2126.0	2202.3	2351.3	2468.6	2528.5	2578.9	2583.6	2533.2	2428.8	2283.3
12.5°	2237.5	2244.5	2324.3	2467.5	2570.7	2595.4	2639.9	2657.5	2644.6	2570.7	2419.4
15°	2365.4	2381.8	2449.9	2556.6	2600.1	2570.7	2600.1	2631.7	2675.1	2668.1	2532.0
17.5°	2490.9	2502.7	2571.9	2609.4	2561.3	2485.1	2499.2	2536.7	2635.3	2731.5	2643.5
20°	2607.1	2623.5	2681.0	2631.7	2486.2	2367.7	2368.9	2418.2	2568.4	2770.2	2757.3
22.5°	2729.1	2753.8	2794.8	2656.4	2417.0	2275.0	2280.9	2325.5	2515.6	2806.6	2886.3
25°	2888.7	2912.2	2939.1	2717.4	2394.7	2229.3	2251.6	2292.6	2515.6	2868.7	3045.9
27.5°	3104.6	3121.0	3122.2	2831.2	2433.4	2236.3	2283.3	2330.2	2590.7	2993.1	3259.5
30°	3375.6	3401.4	3367.4	3008.4	2554.3	2330.2	2399.4	2458.1	2752.6	3203.1	3573.9
32.5°	3705.3	3741.7	3695.9	3271.2	2806.6	2654.0	2779.6	2813.6	3010.7	3507.0	3930.6
35°	4092.5	4123.0	4073.7	3634.9	3395.6	3423.7	3651.3	3607.9	3529.3	3881.3	4347.1
37.5°	4517.2	4545.4	4450.4	4186.4	4266.2	4388.2	4751.9	4602.9	4349.5	4363.5	4798.8
40°	4906.8	4937.3	4788.3	4785.9	4950.2	5173.1	5611.9	5406.6	5061.7	4994.8	5222.4
42.5°	5310.4	5331.5	5196.6	5105.1	5478.2	5937.0	6401.6	6124.7	5533.3	5460.6	5752.7
45°	5886.5	5931.1	5690.6	5262.3	5953.4	6815.8	7463.4	6922.5	5854.8	5796.2	6564.7
47.5°	6733.6	6766.5	6276.0	5360.9	6395.7	7910.5	8790.4	7957.4	6137.6	6003.8	7674.6
50°	7434.1	7456.4	6814.6	5468.8	6866.2	9090.8	10302.8	9184.7	6455.6	6347.6	8710.7
52.5°	7950.4	8034.8	7522.1	5690.6	7484.5	10478.8	11977.2	10638.4	6951.9	7011.7	9569.5
55°	8057.1	8172.1	8005.5	5826.7	8029.0	11892.7	13523.6	11939.6	7447.0	7515.1	9858.2
57.5°	7080.9	7172.4	7310.9	5277.6	8016.1	12540.3	14421.2	12371.4	7221.7	6739.5	8777.5
60°	5304.5	5367.9	5619.0	4033.8	7371.9	11967.8	13721.9	11636.9	6314.8	5142.6	6687.9
62.5°	3145.6	3173.8	3491.8	2613.0	6118.8	10306.4	11379.9	10041.2	4990.1	3458.9	4096.0
65°	1207.3	1195.6	1438.5	1289.5	4499.6	8209.7	8464.3	7654.7	3423.7	1585.1	1561.7
67.5°	186.6	178.3	240.5	381.3	3245.4	5689.4	5585.0	5516.9	2144.8	369.6	322.7
70°	42.2	42.2	51.6	112.6	1982.9	3342.8	3577.4	3410.8	1372.8	78.6	42.2
72.5°	19.9	19.9	24.6	48.1	718.1	1377.5	1605.1	1580.4	445.9	25.8	15.3
75°	7.0	8.2	8.2	10.6	43.4	71.6	164.3	117.3	28.2	0.0	0.0
77.5°	2.3	2.3	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.2	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°	1534.7	1534.7	1534.7	1534.7	1534.7	1534.7	1534.7	1534.7	1534.7	1534.7	1534.7
2.5°	1706.0	1697.8	1667.3	1626.2	1586.3	1551.1	1514.7	1471.3	1439.7	1403.3	1391.5
5°	1896.1	1844.4	1761.1	1674.3	1594.5	1526.5	1460.8	1390.4	1338.7	1287.1	1269.5
7.5°	2056.8	1980.5	1845.6	1715.4	1606.3	1510.1	1415.0	1318.8	1243.7	1182.7	1163.9
10°	2201.1	2113.1	1932.4	1771.7	1634.4	1523.0	1408.0	1287.1	1189.7	1117.0	1099.4
12.5°	2325.5	2223.4	2006.4	1813.9	1646.2	1518.3	1406.8	1310.6	1222.6	1139.3	1117.0
15°	2429.9	2317.3	2068.5	1842.1	1628.6	1459.6	1362.2	1347.0	1339.9	1248.4	1205.0
17.5°	2532.0	2405.3	2119.0	1855.0	1579.3	1356.3	1285.9	1355.2	1429.1	1369.3	1314.1
20°	2638.8	2494.5	2170.6	1857.4	1497.1	1240.2	1228.5	1337.6	1431.4	1412.7	1361.0
22.5°	2764.3	2605.9	2235.2	1856.2	1393.9	1141.6	1186.2	1303.5	1379.8	1378.6	1337.6
25°	2946.2	2746.7	2322.0	1863.2	1281.3	1065.4	1139.3	1246.1	1308.2	1305.9	1271.9
27.5°	3141.0	2914.5	2434.6	1880.8	1185.0	1020.8	1084.1	1167.4	1221.4	1219.1	1189.7
30°	3414.3	3108.1	2542.6	1882.0	1115.8	997.3	1023.1	1080.6	1132.2	1126.4	1104.1
32.5°	3746.4	3326.3	2632.9	1815.1	1072.4	975.0	959.8	989.1	1029.0	1020.8	1014.9
35°	4147.7	3585.6	2710.3	1668.4	1005.5	930.4	889.4	895.2	923.4	928.1	925.7
37.5°	4605.2	3894.2	2806.6	1474.9	915.2	865.9	810.8	806.1	822.5	837.7	849.5
40°	5057.0	4241.5	2936.8	1278.9	833.1	783.8	731.0	719.2	726.3	753.3	777.9
42.5°	5565.0	4644.0	3077.6	1111.1	776.7	693.4	643.0	620.7	640.6	684.0	713.4
45°	6297.2	5208.3	3214.9	977.4	753.3	613.6	545.6	543.2	565.5	621.9	654.7
47.5°	7325.0	5938.1	3305.2	872.9	752.1	551.5	470.5	484.6	510.4	565.5	603.1
50°	8327.0	6852.1	3205.5	793.2	727.5	510.4	414.2	442.3	468.2	516.3	555.0
52.5°	8931.2	7343.7	2817.1	718.1	651.2	491.6	359.0	408.3	413.0	456.4	497.5
55°	8867.9	7025.8	2157.7	601.9	538.5	464.6	301.5	368.4	370.8	403.6	438.8
57.5°	7696.9	6032.0	1481.9	488.1	404.8	383.7	248.7	310.9	333.2	353.2	379.0
60°	5736.3	4401.1	660.6	396.6	257.0	259.3	212.4	234.7	268.7	292.2	314.4
62.5°	3380.3	2532.0	268.7	238.2	142.0	163.1	171.3	171.3	192.4	210.0	224.1
65°	1277.7	885.8	109.1	119.7	73.9	76.3	100.9	124.4	140.8	156.1	174.8
67.5°	224.1	154.9	56.3	44.6	43.4	38.7	51.6	81.0	90.3	102.1	110.3
70°	37.5	31.7	23.5	22.3	19.9	21.1	34.0	57.5	63.4	66.9	70.4
72.5°	10.6	9.4	7.0	5.9	4.7	5.9	21.1	44.6	46.9	49.3	52.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	8.2	31.7	34.0	35.2	38.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	9.4	11.7	9.4
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°	1534.7	1534.7	1534.7	1534.7	1534.7	1534.7	1534.7	1534.7	1534.7	1534.7	1534.7
2.5°	1384.5	1361.0	1348.1	1341.1	1341.1	1331.7	1321.1	1317.6	1332.9	1332.9	1358.7
5°	1247.2	1228.5	1207.3	1194.4	1174.5	1178.0	1166.3	1165.1	1180.4	1187.4	1214.4
7.5°	1152.2	1128.7	1115.8	1107.6	1097.0	1092.4	1081.8	1078.3	1086.5	1098.2	1124.0
10°	1088.8	1085.3	1084.1	1090.0	1090.0	1084.1	1074.8	1068.9	1071.2	1093.5	1122.9
12.5°	1105.3	1112.3	1114.6	1124.0	1128.7	1124.0	1117.0	1119.3	1134.6	1175.7	1219.1
15°	1176.8	1171.0	1168.6	1173.3	1176.8	1172.1	1169.8	1187.4	1240.2	1298.9	1348.1
17.5°	1253.1	1215.5	1199.1	1199.1	1201.5	1199.1	1201.5	1235.5	1321.1	1379.8	1416.2
20°	1291.8	1222.6	1196.8	1190.9	1195.6	1196.8	1205.0	1243.7	1337.6	1378.6	1386.9
22.5°	1280.1	1193.3	1163.9	1159.2	1163.9	1168.6	1176.8	1209.7	1297.7	1318.8	1315.3
25°	1221.4	1135.8	1112.3	1112.3	1122.9	1121.7	1125.2	1148.7	1221.4	1234.3	1228.5
27.5°	1147.5	1066.5	1046.6	1058.3	1067.7	1065.4	1066.5	1086.5	1140.5	1144.0	1138.1
30°	1072.4	1002.0	983.2	997.3	1010.2	1007.9	1009.0	1029.0	1063.0	1059.5	1051.3
32.5°	996.1	944.5	930.4	938.6	958.6	956.2	960.9	982.1	995.0	979.7	970.3
35°	925.7	898.8	888.2	892.9	908.1	911.7	919.9	934.0	934.0	915.2	898.8
37.5°	860.0	856.5	849.5	843.6	857.7	868.2	880.0	896.4	872.9	846.0	830.7
40°	799.0	814.3	804.9	789.6	797.9	813.1	836.6	849.5	821.3	794.3	768.5
42.5°	742.7	768.5	765.0	746.2	753.3	767.3	794.3	804.9	772.0	741.5	716.9
45°	688.7	725.1	727.5	704.0	711.0	725.1	756.8	760.3	718.1	685.2	667.6
47.5°	641.8	681.7	682.9	665.3	667.6	687.6	716.9	718.1	670.0	639.5	617.2
50°	597.2	643.0	646.5	631.2	633.6	657.1	681.7	677.0	625.4	593.7	573.7
52.5°	543.2	605.4	613.6	606.6	616.0	634.8	650.0	633.6	573.7	542.1	524.5
55°	484.6	565.5	583.1	578.4	589.0	604.3	607.8	597.2	522.1	490.4	474.0
57.5°	416.5	465.8	496.3	486.9	495.1	510.4	520.9	512.7	456.4	431.8	417.7
60°	345.0	377.8	384.8	369.6	362.6	389.5	414.2	403.6	355.5	340.3	323.8
62.5°	252.3	289.8	294.5	274.6	266.3	295.7	316.8	306.2	253.4	237.0	224.1
65°	201.8	237.0	246.4	227.6	222.9	245.2	258.1	232.3	194.8	177.2	163.1
67.5°	132.6	160.7	185.4	184.2	174.8	181.9	172.5	151.4	124.4	115.0	105.6
70°	82.1	98.6	113.8	119.7	118.5	116.2	103.3	88.0	79.8	76.3	71.6
72.5°	63.4	79.8	91.5	95.0	96.2	92.7	82.1	68.1	59.8	55.1	51.6
75°	46.9	59.8	69.2	73.9	76.3	73.9	63.4	54.0	45.8	42.2	38.7
77.5°	16.4	19.9	24.6	27.0	25.8	24.6	22.3	22.3	17.6	16.4	14.1
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: P633918

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

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1534.7	1534.7	1534.7	1534.7	1534.7	1534.7	1534.7	1534.7	1534.7	1534.7
2.5°	1388.0	1409.1	1447.9	1483.1	1520.6	1559.3	1601.6	1645.0	1664.9	1662.6
5°	1255.4	1301.2	1364.6	1433.8	1511.2	1594.5	1687.2	1782.3	1823.3	1840.9
7.5°	1172.1	1236.7	1320.0	1408.0	1510.1	1628.6	1768.2	1917.2	1977.0	1997.0
10°	1182.7	1257.8	1327.0	1412.7	1521.8	1675.5	1849.1	2026.3	2096.7	2119.0
12.5°	1268.3	1284.8	1303.5	1373.9	1511.2	1710.7	1923.1	2134.3	2215.2	2237.5
15°	1345.8	1269.5	1234.3	1298.9	1473.7	1735.3	1998.1	2250.4	2339.6	2365.4
17.5°	1349.3	1234.3	1155.7	1206.2	1412.7	1745.9	2072.1	2368.9	2466.3	2490.9
20°	1305.9	1195.6	1094.7	1095.9	1329.4	1743.5	2133.1	2475.7	2584.8	2607.1
22.5°	1242.5	1149.8	1045.4	1009.0	1240.2	1738.8	2200.0	2589.5	2708.0	2729.1
25°	1172.1	1091.2	998.5	943.3	1151.0	1743.5	2293.8	2738.5	2868.7	2888.7
27.5°	1095.9	1026.6	962.1	917.5	1075.9	1761.1	2406.5	2928.6	3083.5	3104.6
30°	1016.1	964.5	938.6	911.7	1029.0	1765.8	2528.5	3150.3	3346.3	3375.6
32.5°	937.5	909.3	910.5	915.2	984.4	1733.0	2639.9	3396.7	3658.4	3705.3
35°	864.7	856.5	880.0	903.4	919.9	1648.5	2737.3	3687.7	4044.4	4092.5
37.5°	802.5	809.6	838.9	862.4	849.5	1528.8	2866.4	4051.4	4476.2	4517.2
40°	742.7	760.3	794.3	804.9	795.5	1389.2	3021.3	4402.3	4850.5	4906.8
42.5°	687.6	700.5	748.6	750.9	780.3	1247.2	3170.3	4780.1	5281.1	5310.4
45°	643.0	640.6	689.9	705.2	800.2	1090.0	3315.8	5283.4	5844.3	5886.5
47.5°	599.6	597.2	608.9	678.2	808.4	944.5	3460.1	6020.3	6660.9	6733.6
50°	558.5	562.0	525.6	665.3	763.8	833.1	3525.8	6701.9	7403.6	7434.1
52.5°	522.1	509.2	445.9	623.0	668.8	727.5	3339.2	7011.7	7863.5	7950.4
55°	470.5	398.9	367.2	505.7	528.0	634.8	2735.0	6832.2	7903.4	8057.1
57.5°	402.4	313.3	312.1	373.1	373.1	589.0	1751.8	5837.2	6811.1	7080.9
60°	309.8	242.9	258.1	259.3	239.4	429.4	983.2	4228.6	5035.8	5304.5
62.5°	220.6	185.4	194.8	154.9	137.3	214.7	471.7	2434.6	3108.1	3145.6
65°	147.8	125.5	102.1	85.7	84.5	91.5	194.8	880.0	1070.1	1207.3
67.5°	97.4	76.3	54.0	54.0	61.0	61.0	73.9	145.5	204.2	186.6
70°	63.4	52.8	34.0	32.9	39.9	39.9	37.5	39.9	42.2	42.2
72.5°	46.9	39.9	19.9	17.6	22.3	23.5	21.1	19.9	19.9	19.9
75°	35.2	28.2	11.7	8.2	10.6	14.1	11.7	8.2	8.2	7.0
77.5°	14.1	10.6	4.7	3.5	5.9	8.2	7.0	3.5	2.3	2.3
80°	1.2	2.3	2.3	2.3	3.5	4.7	5.9	2.3	1.2	1.2
82.5°	0.0	1.2	1.2	1.2	2.3	3.5	4.7	2.3	1.2	1.2
85°	0.0	0.0	0.0	0.0	2.3	3.5	2.3	1.2	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	1.2	3.5	2.3	1.2	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)