

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: P633808

Luminaire Tested: GWS-SA2F-740-U-SLR-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633808  
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-740-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) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

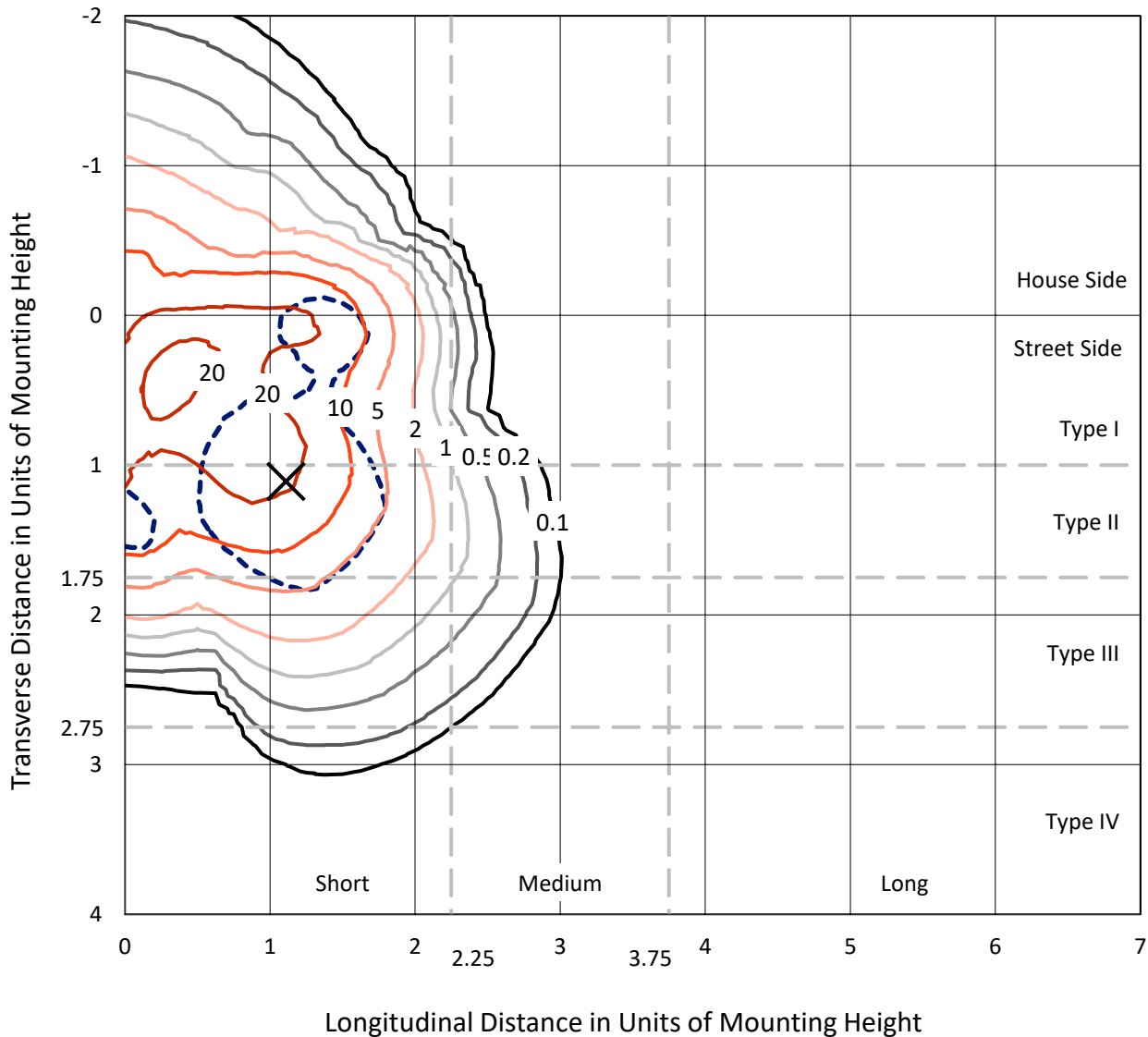
Lumens per Lamp: N/A  
Luminaire Lumens: 8654.7 lumens  
Efficiency: N/A  
Efficacy: 69.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 124.5  
Input Voltage (V): 120  
Input Current (Ain): 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

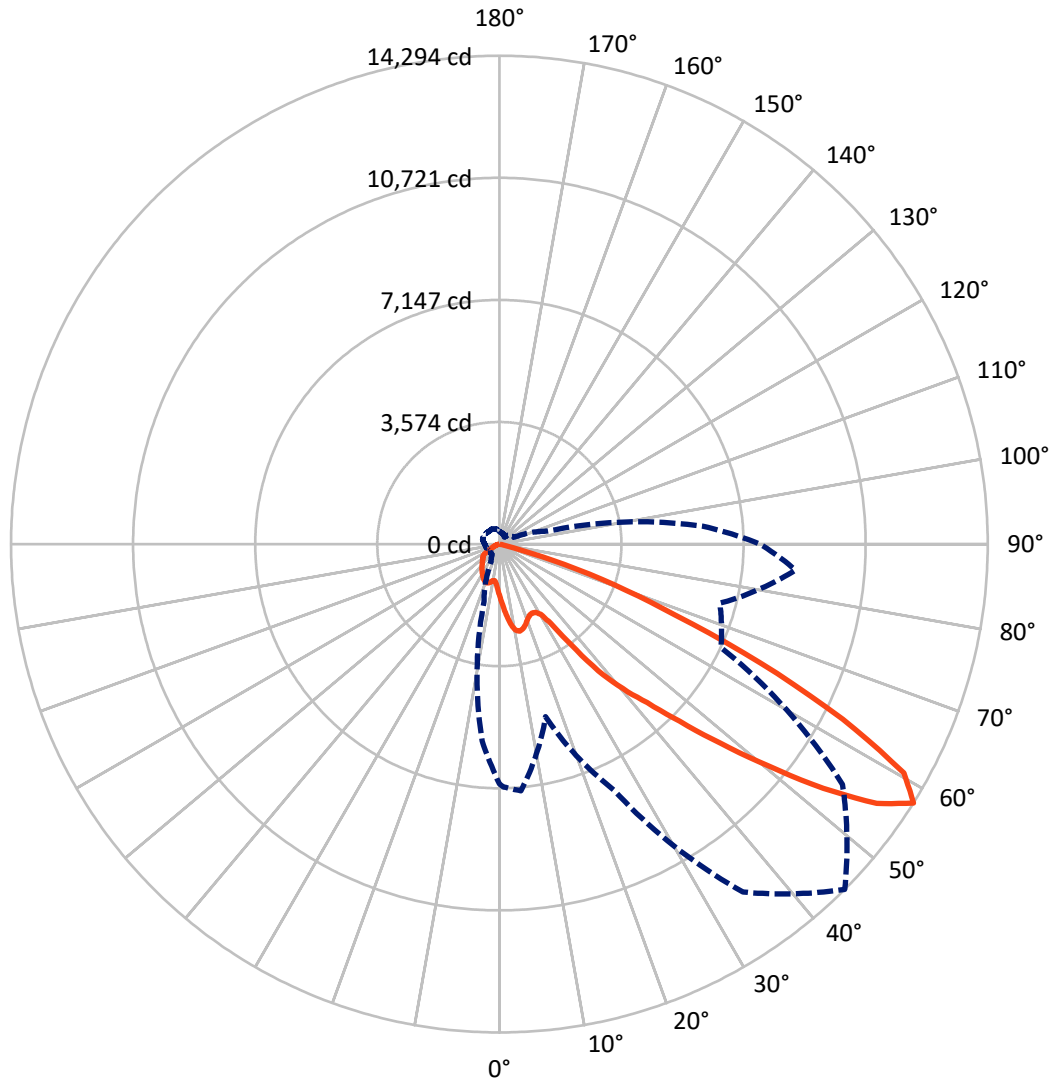
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 27.1 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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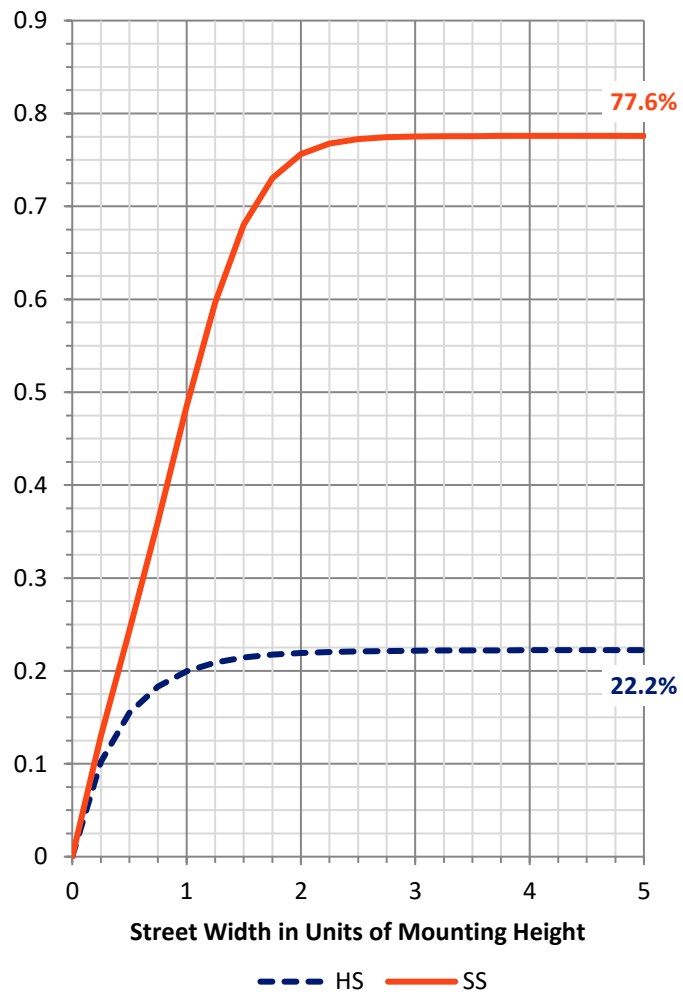
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1938.0	0.0	1938.0
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	6716.7	0.0	6716.7
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	8654.7	0.0	8654.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.6	1.7
10°-20°	484.1	5.6
20°-30°	786.4	9.1
30°-40°	1215.1	14.0
40°-50°	1948.4	22.5
50°-60°	2662.9	30.8
60°-70°	1289.7	14.9
70°-80°	118.1	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°	8654.7	100.0
0°-180°	8654.7	100.0

**Coefficient of Utilization**



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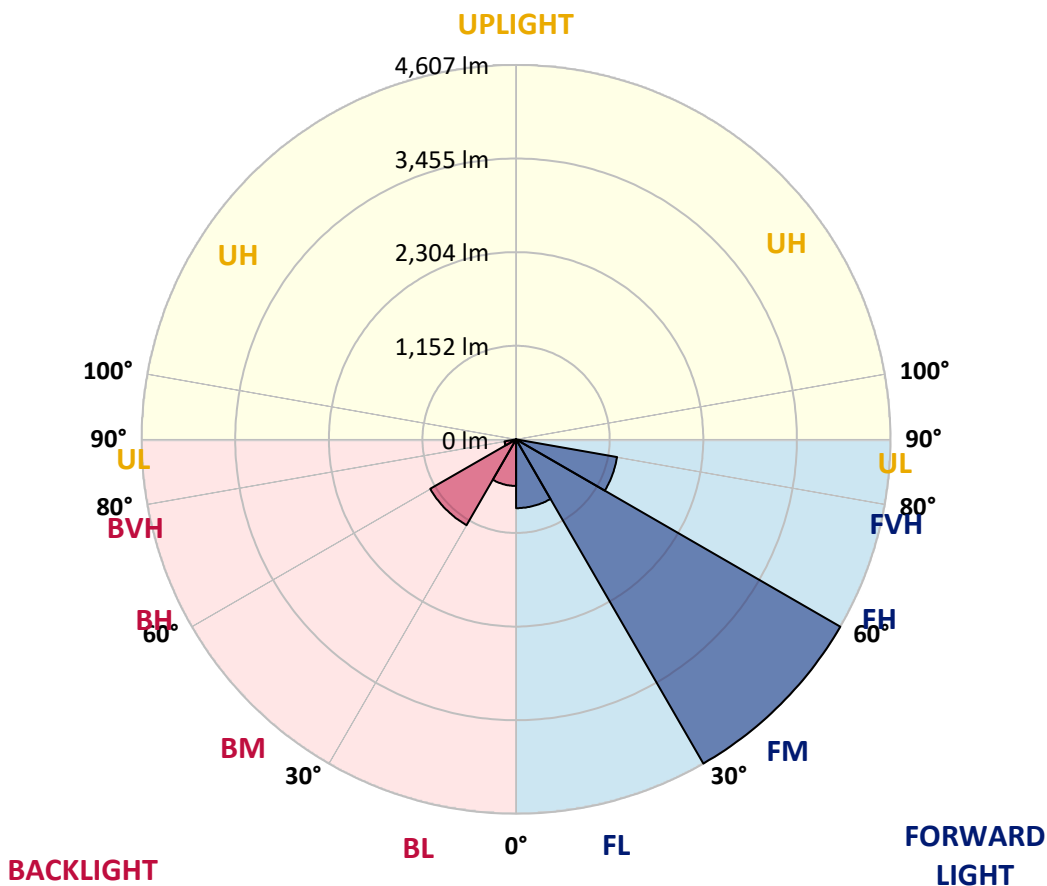
CATALOG NUMBER: GWS-SA2F-740-U-SLR-W-GRSBK

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	846.7	9.8			
FM (30°-60°)	4607.1	53.2			
FH (60°-80°)	1262.6	14.6			G1/1800
FVH (80°-90°)	0.3	0.0			G0/10
BL (0°-30°)	573.4	6.6	B2/1000		
BM (30°-60°)	1219.3	14.1	B2/2500		
BH (60°-80°)	145.3	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°	1521.2	1521.2	1521.2	1521.2	1521.2	1521.2	1521.2	1521.2	1521.2	1521.2	1521.2
2.5°	1647.9	1658.4	1675.8	1713.0	1744.4	1765.4	1774.7	1772.4	1759.6	1750.3	1731.7
5°	1824.7	1824.7	1858.4	1943.3	2008.4	2049.1	2070.1	2057.3	2031.7	1991.0	1928.2
7.5°	1979.4	1985.2	2042.2	2163.1	2262.0	2320.1	2353.8	2346.9	2301.5	2223.6	2098.0
10°	2100.3	2107.3	2182.9	2330.6	2446.9	2506.2	2556.2	2560.8	2510.8	2407.3	2263.1
12.5°	2217.8	2224.7	2303.8	2445.7	2548.1	2572.5	2616.7	2634.1	2621.3	2548.1	2398.0
15°	2344.5	2360.8	2428.3	2534.1	2577.1	2548.1	2577.1	2608.5	2651.6	2644.6	2509.7
17.5°	2469.0	2480.6	2549.2	2586.4	2538.7	2463.2	2477.1	2514.3	2612.0	2707.4	2620.2
20°	2584.1	2600.4	2657.4	2608.5	2464.3	2346.9	2348.0	2396.9	2545.7	2745.8	2733.0
22.5°	2705.1	2729.5	2770.2	2632.9	2395.7	2255.0	2260.8	2305.0	2493.4	2781.8	2860.9
25°	2863.2	2886.5	2913.2	2693.4	2373.6	2209.6	2231.7	2272.4	2493.4	2843.4	3019.1
27.5°	3077.2	3093.5	3094.6	2806.2	2412.0	2216.6	2263.1	2309.6	2567.8	2966.7	3230.7
30°	3345.8	3371.4	3337.7	2981.8	2531.8	2309.6	2378.3	2436.4	2728.3	3174.9	3542.4
32.5°	3672.6	3708.7	3663.3	3242.3	2781.8	2630.6	2755.1	2788.8	2984.2	3476.1	3895.9
35°	4056.4	4086.7	4037.8	3602.9	3365.6	3393.5	3619.1	3576.1	3498.2	3847.1	4308.8
37.5°	4477.4	4505.3	4411.1	4149.5	4228.5	4349.5	4710.0	4562.3	4311.1	4325.1	4756.5
40°	4863.5	4893.8	4746.1	4743.7	4906.5	5127.5	5562.5	5358.9	5017.0	4950.7	5176.4
42.5°	5263.6	5284.5	5150.8	5060.1	5429.9	5884.6	6345.1	6070.7	5484.5	5412.4	5702.0
45°	5834.6	5878.8	5640.4	5215.9	5900.9	6755.7	7397.6	6861.5	5803.2	5745.0	6506.8
47.5°	6674.2	6706.8	6220.7	5313.6	6339.3	7840.7	8712.9	7887.2	6083.5	5950.9	7606.9
50°	7368.5	7390.6	6754.5	5420.6	6805.7	9010.6	10212.0	9103.7	6398.6	6291.6	8633.8
52.5°	7880.2	7964.0	7455.8	5640.4	7418.5	10386.4	11871.5	10544.6	6890.6	6949.9	9485.1
55°	7986.1	8100.0	7934.9	5775.3	7958.2	11787.8	13404.3	11834.3	7381.3	7448.8	9771.2
57.5°	7018.5	7109.2	7246.4	5231.0	7945.4	12429.8	14294.0	12262.3	7158.0	6680.1	8700.1
60°	5257.8	5320.6	5569.4	3998.3	7306.9	11862.2	13600.9	11534.3	6259.1	5097.3	6628.9
62.5°	3117.9	3145.8	3461.0	2589.9	6064.9	10215.5	11279.6	9952.6	4946.1	3428.4	4059.9
65°	1196.7	1185.1	1425.8	1278.1	4460.0	8137.3	8389.6	7587.2	3393.5	1571.2	1547.9
67.5°	184.9	176.8	238.4	378.0	3216.8	5639.2	5535.7	5468.3	2125.9	366.3	319.8
70°	41.9	41.9	51.2	111.6	1965.4	3313.3	3545.9	3380.7	1360.7	77.9	41.9
72.5°	19.8	19.8	24.4	47.7	711.7	1365.3	1590.9	1566.5	441.9	25.6	15.1
75°	7.0	8.1	8.1	10.5	43.0	70.9	162.8	116.3	27.9	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°	1521.2	1521.2	1521.2	1521.2	1521.2	1521.2	1521.2	1521.2	1521.2	1521.2	1521.2
2.5°	1690.9	1682.8	1652.6	1611.9	1572.3	1537.4	1501.4	1458.4	1427.0	1390.9	1379.3
5°	1879.3	1828.2	1745.6	1659.5	1580.5	1513.0	1447.9	1378.1	1326.9	1275.8	1258.3
7.5°	2038.7	1963.1	1829.3	1700.3	1592.1	1496.7	1402.5	1307.2	1232.7	1172.3	1153.7
10°	2181.7	2094.5	1915.4	1756.1	1620.0	1509.5	1395.6	1275.8	1179.2	1107.1	1089.7
12.5°	2305.0	2203.8	1988.7	1797.9	1631.6	1504.9	1394.4	1299.0	1211.8	1129.2	1107.1
15°	2408.5	2296.9	2050.3	1825.9	1614.2	1446.7	1350.2	1335.1	1328.1	1237.4	1194.4
17.5°	2509.7	2384.1	2100.3	1838.6	1565.3	1344.4	1274.6	1343.2	1416.5	1357.2	1302.5
20°	2615.5	2472.5	2151.5	1841.0	1483.9	1229.3	1217.6	1325.8	1418.8	1400.2	1349.0
22.5°	2739.9	2582.9	2215.4	1839.8	1381.6	1131.6	1175.8	1292.1	1367.6	1366.5	1325.8
25°	2920.2	2722.5	2301.5	1846.8	1270.0	1056.0	1129.2	1235.1	1296.7	1294.4	1260.7
27.5°	3113.3	2888.8	2413.1	1864.2	1174.6	1011.8	1074.6	1157.1	1210.6	1208.3	1179.2
30°	3384.2	3080.7	2520.1	1865.4	1106.0	988.5	1014.1	1071.1	1122.3	1116.4	1094.3
32.5°	3713.3	3297.0	2609.7	1799.1	1062.9	966.4	951.3	980.4	1019.9	1011.8	1006.0
35°	4111.1	3554.0	2686.4	1653.7	996.7	922.2	881.5	887.3	915.3	919.9	917.6
37.5°	4564.6	3859.9	2781.8	1461.8	907.1	858.3	803.6	799.0	815.2	830.4	842.0
40°	5012.4	4204.1	2910.9	1267.6	825.7	776.9	724.5	712.9	719.9	746.6	771.0
42.5°	5515.9	4603.0	3050.5	1101.3	769.9	687.3	637.3	615.2	635.0	678.0	707.1
45°	6241.6	5162.4	3186.5	968.7	746.6	608.2	540.8	538.5	560.5	616.4	648.9
47.5°	7260.4	5885.8	3276.1	865.2	745.5	546.6	466.3	480.3	505.9	560.5	597.8
50°	8253.6	6791.7	3177.2	786.2	721.0	505.9	410.5	438.4	464.0	511.7	550.1
52.5°	8852.5	7279.0	2792.3	711.7	645.4	487.3	355.9	404.7	409.4	452.4	493.1
55°	8789.7	6963.8	2138.7	596.6	533.8	460.5	298.9	365.2	367.5	400.1	434.9
57.5°	7629.0	5978.8	1468.8	483.8	401.2	380.3	246.5	308.2	330.3	350.1	375.6
60°	5685.7	4362.3	654.7	393.1	254.7	257.0	210.5	232.6	266.3	289.6	311.7
62.5°	3350.5	2509.7	266.3	236.1	140.7	161.7	169.8	169.8	190.7	208.2	222.1
65°	1266.5	878.0	108.2	118.6	73.3	75.6	100.0	123.3	139.6	154.7	173.3
67.5°	222.1	153.5	55.8	44.2	43.0	38.4	51.2	80.2	89.5	101.2	109.3
70°	37.2	31.4	23.3	22.1	19.8	20.9	33.7	57.0	62.8	66.3	69.8
72.5°	10.5	9.3	7.0	5.8	4.7	5.8	20.9	44.2	46.5	48.8	52.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	8.1	31.4	33.7	34.9	38.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	9.3	11.6	9.3
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°	1521.2	1521.2	1521.2	1521.2	1521.2	1521.2	1521.2	1521.2	1521.2	1521.2	1521.2
2.5°	1372.3	1349.0	1336.2	1329.3	1329.3	1320.0	1309.5	1306.0	1321.1	1321.1	1346.7
5°	1236.2	1217.6	1196.7	1183.9	1164.1	1167.6	1156.0	1154.8	1169.9	1176.9	1203.7
7.5°	1142.0	1118.8	1106.0	1097.8	1087.4	1082.7	1072.3	1068.8	1076.9	1088.5	1114.1
10°	1079.2	1075.7	1074.6	1080.4	1080.4	1074.6	1065.3	1059.5	1061.8	1083.9	1113.0
12.5°	1095.5	1102.5	1104.8	1114.1	1118.8	1114.1	1107.1	1109.5	1124.6	1165.3	1208.3
15°	1166.5	1160.6	1158.3	1163.0	1166.5	1161.8	1159.5	1176.9	1229.3	1287.4	1336.2
17.5°	1242.0	1204.8	1188.5	1188.5	1190.9	1188.5	1190.9	1224.6	1309.5	1367.6	1403.7
20°	1280.4	1211.8	1186.2	1180.4	1185.1	1186.2	1194.4	1232.7	1325.8	1366.5	1374.6
22.5°	1268.8	1182.7	1153.7	1149.0	1153.7	1158.3	1166.5	1199.0	1286.2	1307.2	1303.7
25°	1210.6	1125.7	1102.5	1102.5	1113.0	1111.8	1115.3	1138.5	1210.6	1223.4	1217.6
27.5°	1137.4	1057.1	1037.4	1049.0	1058.3	1056.0	1057.1	1076.9	1130.4	1133.9	1128.1
30°	1062.9	993.2	974.6	988.5	1001.3	999.0	1000.1	1019.9	1053.6	1050.2	1042.0
32.5°	987.4	936.2	922.2	930.4	950.1	947.8	952.5	973.4	986.2	971.1	961.8
35°	917.6	890.8	880.4	885.0	900.1	903.6	911.8	925.7	925.7	907.1	890.8
37.5°	852.5	849.0	842.0	836.2	850.1	860.6	872.2	888.5	865.2	838.5	823.4
40°	792.0	807.1	797.8	782.7	790.8	805.9	829.2	842.0	814.1	787.3	761.7
42.5°	736.2	761.7	758.3	739.6	746.6	760.6	787.3	797.8	765.2	735.0	710.6
45°	682.7	718.7	721.0	697.8	704.8	718.7	750.1	753.6	711.7	679.2	661.7
47.5°	636.1	675.7	676.8	659.4	661.7	681.5	710.6	711.7	664.1	633.8	611.7
50°	591.9	637.3	640.8	625.7	628.0	651.3	675.7	671.0	619.9	588.5	568.7
52.5°	538.5	600.1	608.2	601.3	610.6	629.2	644.3	628.0	568.7	537.3	519.8
55°	480.3	560.5	578.0	573.3	583.8	598.9	602.4	591.9	517.5	486.1	469.8
57.5°	412.9	461.7	491.9	482.6	490.8	505.9	516.4	508.2	452.4	428.0	414.0
60°	341.9	374.5	381.5	366.3	359.4	386.1	410.5	400.1	352.4	337.3	321.0
62.5°	250.0	287.3	291.9	272.1	264.0	293.1	314.0	303.5	251.2	234.9	222.1
65°	200.0	234.9	244.2	225.6	221.0	243.1	255.9	230.3	193.1	175.6	161.7
67.5°	131.4	159.3	183.7	182.6	173.3	180.3	171.0	150.0	123.3	114.0	104.7
70°	81.4	97.7	112.8	118.6	117.5	115.1	102.3	87.2	79.1	75.6	70.9
72.5°	62.8	79.1	90.7	94.2	95.4	91.9	81.4	67.5	59.3	54.7	51.2
75°	46.5	59.3	68.6	73.3	75.6	73.3	62.8	53.5	45.4	41.9	38.4
77.5°	16.3	19.8	24.4	26.7	25.6	24.4	22.1	22.1	17.4	16.3	14.0
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: P633808

CATALOG NUMBER: GWS-SA2F-740-U-SLR-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1521.2	1521.2	1521.2	1521.2	1521.2	1521.2	1521.2	1521.2	1521.2	1521.2
2.5°	1375.8	1396.7	1435.1	1470.0	1507.2	1545.6	1587.4	1630.5	1650.2	1647.9
5°	1244.4	1289.7	1352.5	1421.1	1497.9	1580.5	1672.3	1766.5	1807.2	1824.7
7.5°	1161.8	1225.8	1308.3	1395.6	1496.7	1614.2	1752.6	1900.3	1959.6	1979.4
10°	1172.3	1246.7	1315.3	1400.2	1508.4	1660.7	1832.8	2008.4	2078.2	2100.3
12.5°	1257.2	1273.4	1292.1	1361.8	1497.9	1695.6	1906.1	2115.4	2195.7	2217.8
15°	1333.9	1258.3	1223.4	1287.4	1460.7	1720.0	1980.5	2230.6	2318.9	2344.5
17.5°	1337.4	1223.4	1145.5	1195.5	1400.2	1730.5	2053.8	2348.0	2444.5	2469.0
20°	1294.4	1185.1	1085.0	1086.2	1317.6	1728.2	2114.3	2453.9	2562.0	2584.1
22.5°	1231.6	1139.7	1036.2	1000.1	1229.3	1723.5	2180.6	2566.7	2684.1	2705.1
25°	1161.8	1081.6	989.7	935.0	1140.9	1728.2	2273.6	2714.4	2843.4	2863.2
27.5°	1086.2	1017.6	953.6	909.4	1066.4	1745.6	2385.2	2902.8	3056.3	3077.2
30°	1007.1	956.0	930.4	903.6	1019.9	1750.3	2506.2	3122.6	3316.8	3345.8
32.5°	929.2	901.3	902.5	907.1	975.7	1717.7	2616.7	3366.8	3626.1	3672.6
35°	857.1	849.0	872.2	895.5	911.8	1634.0	2713.2	3655.2	4008.7	4056.4
37.5°	795.5	802.4	831.5	854.8	842.0	1515.3	2841.1	4015.7	4436.7	4477.4
40°	736.2	753.6	787.3	797.8	788.5	1376.9	2994.6	4363.4	4807.7	4863.5
42.5°	681.5	694.3	742.0	744.3	773.4	1236.2	3142.3	4737.9	5234.5	5263.6
45°	637.3	635.0	683.8	698.9	793.1	1080.4	3286.5	5236.8	5792.7	5834.6
47.5°	594.3	591.9	603.6	672.2	801.3	936.2	3429.6	5967.2	6602.1	6674.2
50°	553.6	557.1	521.0	659.4	757.1	825.7	3494.7	6642.8	7338.3	7368.5
52.5°	517.5	504.7	441.9	617.5	662.9	721.0	3309.8	6949.9	7794.2	7880.2
55°	466.3	395.4	364.0	501.2	523.3	629.2	2710.9	6771.9	7833.7	7986.1
57.5°	398.9	310.5	309.3	369.8	369.8	583.8	1736.3	5785.7	6751.0	7018.5
60°	307.0	240.7	255.9	257.0	237.2	425.6	974.6	4191.3	4991.4	5257.8
62.5°	218.6	183.7	193.1	153.5	136.1	212.8	467.5	2413.1	3080.7	3117.9
65°	146.5	124.4	101.2	84.9	83.7	90.7	193.1	872.2	1060.6	1196.7
67.5°	96.5	75.6	53.5	53.5	60.5	60.5	73.3	144.2	202.4	184.9
70°	62.8	52.3	33.7	32.6	39.5	39.5	37.2	39.5	41.9	41.9
72.5°	46.5	39.5	19.8	17.4	22.1	23.3	20.9	19.8	19.8	19.8
75°	34.9	27.9	11.6	8.1	10.5	14.0	11.6	8.1	8.1	7.0
77.5°	14.0	10.5	4.7	3.5	5.8	8.1	7.0	3.5	2.3	2.3
80°	1.2	2.3	2.3	2.3	3.5	4.7	5.8	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)