

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: P633587

Luminaire Tested: GWS-SA2F-722-U-SLL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633587
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-37)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-722-U-SLL-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11199.5 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

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

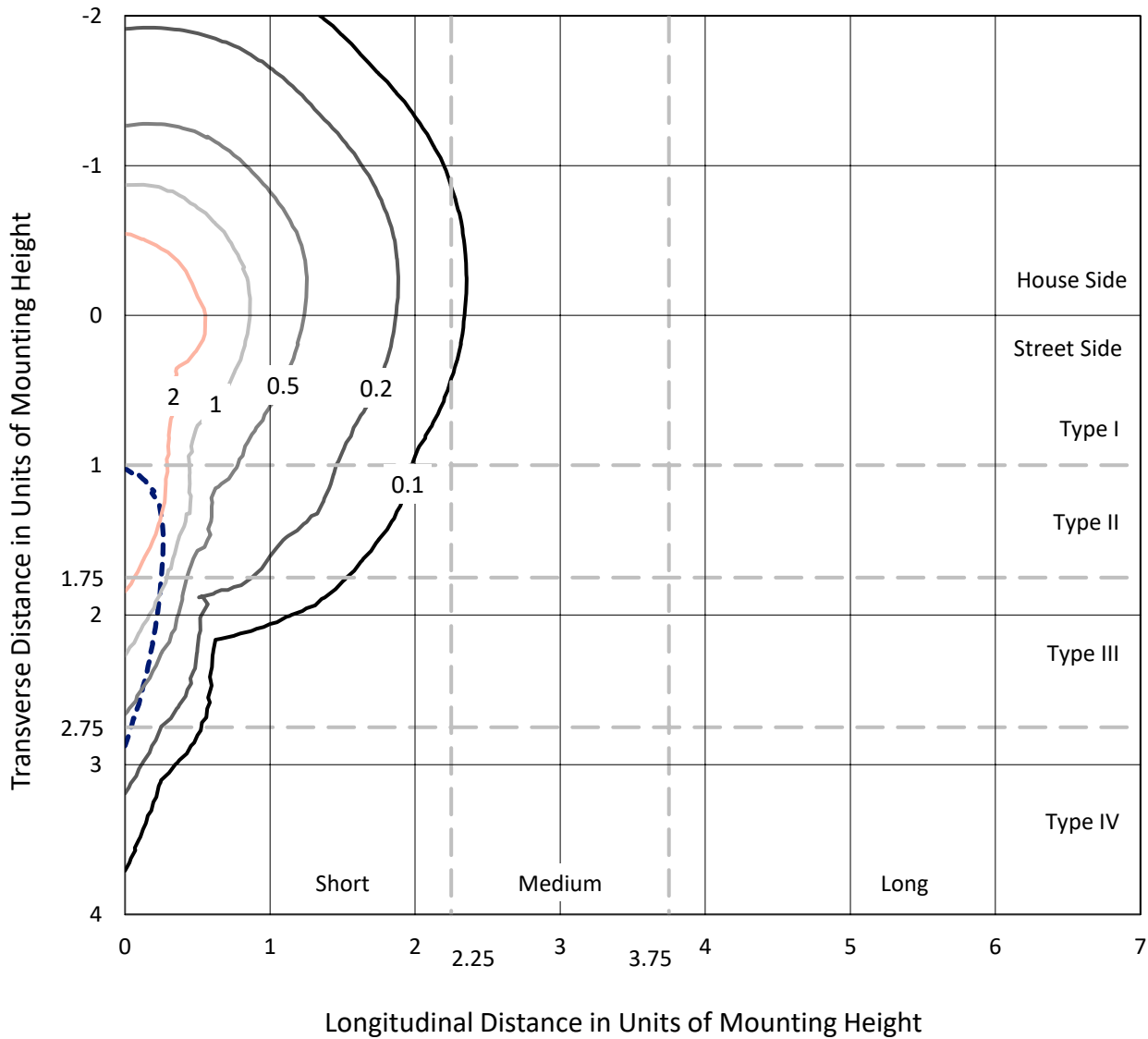


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Iso-Footcandle Lines of Horizontal Illumination

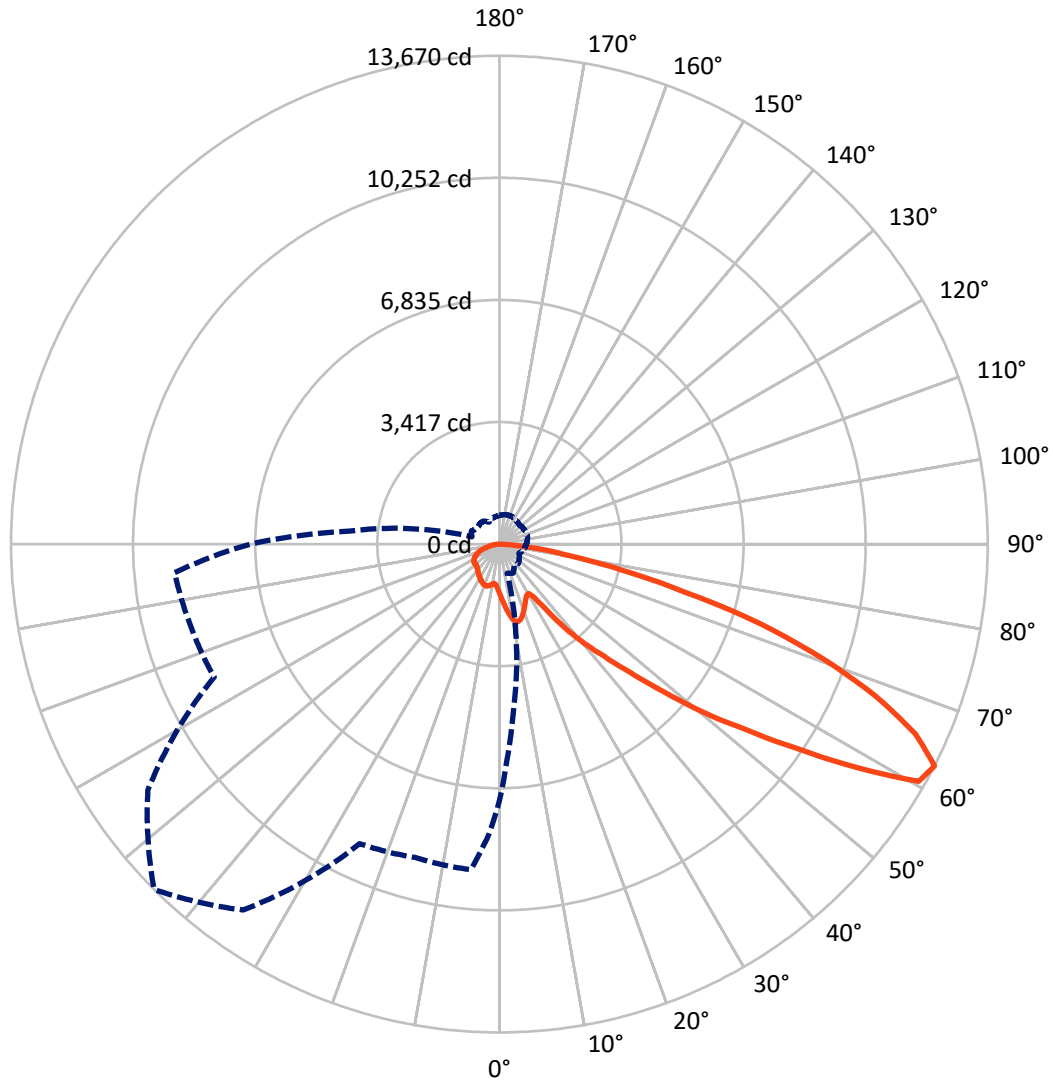
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2677.8	0.0	2677.8
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	8521.7	0.0	8521.7
	% Fixture	76.1	0.0	76.1
Total	Lumens	11199.5	0.0	11199.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.6	1.2
10°-20°	447.1	4.0
20°-30°	703.8	6.3
30°-40°	964.7	8.6
40°-50°	1505.2	13.4
50°-60°	2595.3	23.2
60°-70°	3007.6	26.9
70°-80°	1587.5	14.2
80°-90°	250.8	2.2
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°	11199.5	100.0
0°-180°	11199.5	100.0

Coefficient of Utilization



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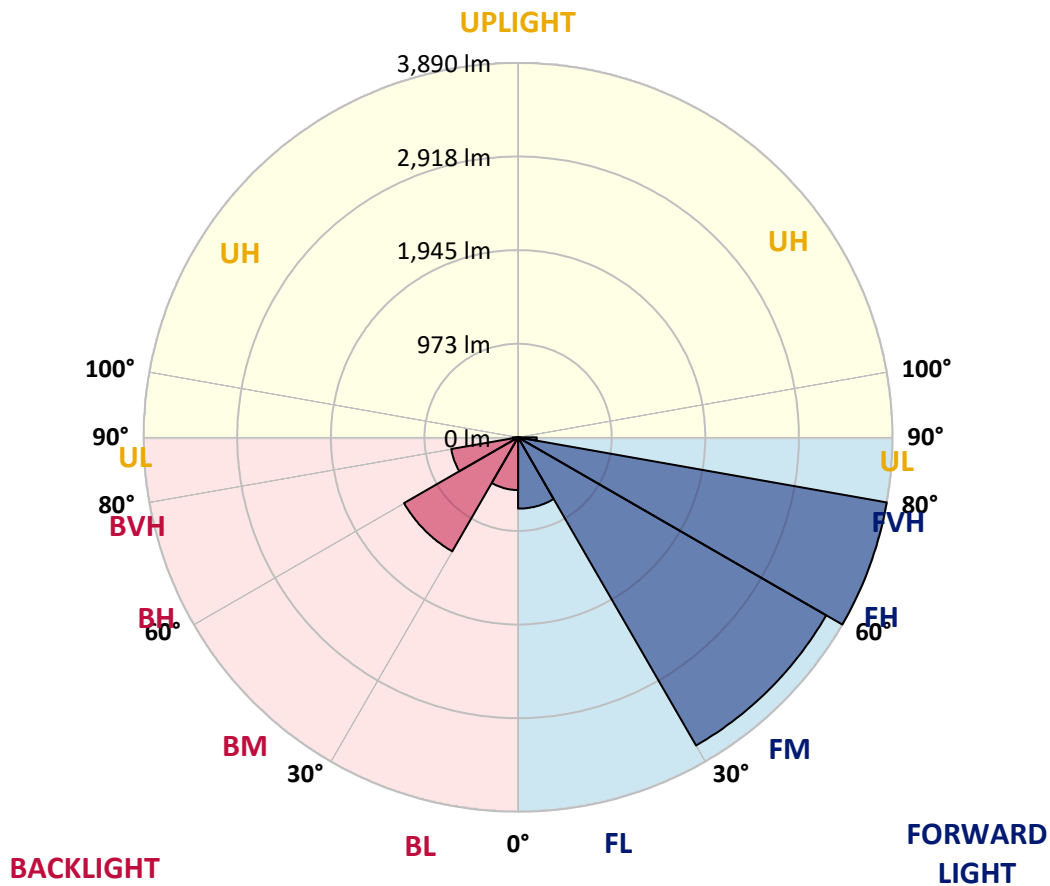
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	740.7	6.6			
FM (30°-60°)	3697.3	33.0			
FH (60°-80°)	3890.1	34.7			G2/5000
FVH (80°-90°)	193.6	1.7			G2/225
BL (0°-30°)	547.7	4.9	B2/1000		
BM (30°-60°)	1367.8	12.2	B2/2500		
BH (60°-80°)	705.1	6.3	B2/1000		G2/1000
BVH (80°-90°)	57.2	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1396.3	1396.3	1396.3	1396.3	1396.3	1396.3	1396.3	1396.3	1396.3	1396.3	1396.3
2.5°	1517.1	1511.1	1502.6	1473.4	1455.5	1434.9	1413.5	1388.6	1360.4	1340.7	1321.0
5°	1645.6	1636.2	1615.6	1546.3	1498.3	1446.0	1402.3	1352.7	1303.8	1270.4	1237.0
7.5°	1769.0	1757.0	1725.3	1619.1	1541.1	1465.7	1399.8	1327.8	1255.0	1205.3	1165.9
10°	1892.3	1867.5	1827.2	1688.5	1585.7	1498.3	1422.9	1334.7	1237.9	1170.2	1128.2
12.5°	1986.6	1963.5	1919.8	1751.9	1630.2	1520.6	1435.8	1354.4	1272.1	1200.2	1157.3
15°	2074.8	2044.8	1995.1	1811.0	1667.0	1519.7	1410.1	1338.9	1327.0	1309.0	1253.3
17.5°	2138.2	2110.8	2059.4	1858.9	1687.6	1493.1	1338.9	1297.0	1350.9	1405.8	1352.7
20°	2193.9	2162.2	2109.9	1892.3	1691.9	1434.0	1252.4	1253.3	1338.1	1413.5	1400.6
22.5°	2241.0	2205.9	2159.6	1930.0	1690.2	1351.8	1177.0	1228.4	1313.3	1372.4	1374.1
25°	2299.3	2270.1	2231.6	1985.7	1690.2	1267.8	1122.2	1198.5	1271.3	1321.0	1319.2
27.5°	2370.4	2350.7	2319.0	2070.5	1705.6	1197.6	1091.4	1159.9	1217.3	1260.1	1259.3
30°	2450.0	2432.0	2408.1	2160.5	1732.2	1145.3	1074.2	1111.9	1153.9	1188.2	1188.2
32.5°	2531.4	2524.6	2498.9	2232.4	1711.6	1129.1	1059.7	1064.0	1086.2	1114.5	1111.9
35°	2644.5	2637.6	2605.1	2288.1	1622.5	1105.9	1036.6	1015.1	1017.7	1035.7	1041.7
37.5°	2809.8	2799.5	2751.6	2353.2	1488.0	1047.7	998.9	963.7	956.0	963.7	974.9
40°	3009.4	2994.0	2928.9	2441.5	1333.0	968.9	939.7	910.6	897.8	900.3	913.2
42.5°	3259.6	3227.0	3133.6	2534.8	1179.6	899.5	873.8	855.8	841.2	839.5	864.4
45°	3665.6	3576.5	3428.3	2617.9	1050.3	862.7	814.7	801.8	789.8	796.7	825.8
47.5°	4374.9	4210.5	3921.8	2689.0	971.4	863.5	767.6	753.9	753.0	766.7	799.3
50°	5349.8	5112.5	4667.1	2737.0	930.3	873.8	739.3	717.0	733.3	747.0	777.8
52.5°	6283.6	5921.2	5390.9	2736.2	912.3	875.5	747.0	682.8	733.3	736.7	765.8
55°	7081.1	6424.9	5586.2	2455.2	886.6	868.6	777.0	656.2	723.9	736.7	759.9
57.5°	7715.0	6745.3	5571.7	1983.2	964.6	831.0	795.0	650.2	696.5	738.4	765.0
60°	7644.8	6598.8	5212.7	1217.3	956.9	764.1	792.4	661.3	650.2	715.3	759.0
62.5°	7177.9	6073.7	4595.1	844.7	898.6	725.6	750.4	681.0	607.4	681.9	729.9
65°	6524.3	5396.1	3829.2	647.6	744.4	727.3	679.3	667.3	569.7	628.8	680.2
67.5°	5659.9	4555.7	3023.1	513.1	519.1	629.6	616.8	592.8	534.6	581.7	627.9
70°	4255.0	3324.7	2080.0	412.9	393.2	526.0	554.3	532.8	500.3	514.0	562.8
72.5°	2998.3	2170.8	1139.3	327.2	303.3	404.3	481.4	478.0	442.0	452.3	500.3
75°	2228.2	1536.0	711.9	258.7	246.7	289.5	403.5	413.8	383.8	395.8	432.6
77.5°	1482.9	994.6	395.8	191.9	191.9	211.6	300.7	348.7	326.4	335.8	361.5
80°	818.1	506.3	197.9	125.9	129.4	145.6	219.3	251.0	251.9	275.0	281.8
82.5°	258.7	161.1	88.2	73.7	69.4	83.1	141.3	179.9	167.9	214.2	197.0
85°	59.1	37.7	16.3	16.3	18.0	27.4	54.0	95.9	122.5	147.3	107.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	37.7	55.7	49.7
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°	1396.3	1396.3	1396.3	1396.3	1396.3	1396.3	1396.3	1396.3	1396.3	1396.3	1396.3
2.5°	1309.0	1291.8	1286.7	1272.1	1270.4	1256.7	1251.6	1251.6	1257.6	1257.6	1263.6
5°	1223.3	1201.9	1189.9	1172.8	1168.5	1158.2	1151.3	1152.2	1159.9	1165.0	1175.3
7.5°	1147.9	1133.4	1124.8	1117.1	1115.4	1113.6	1105.9	1105.1	1107.7	1115.4	1123.1
10°	1116.2	1105.9	1108.5	1114.5	1123.9	1129.1	1122.2	1118.8	1116.2	1121.4	1128.2
12.5°	1147.1	1136.8	1141.9	1152.2	1165.0	1170.2	1167.6	1166.8	1169.3	1189.0	1203.6
15°	1214.7	1195.0	1188.2	1192.5	1202.7	1207.9	1205.3	1208.7	1225.0	1276.4	1313.3
17.5°	1298.7	1250.7	1223.3	1215.6	1219.9	1224.2	1224.2	1232.7	1261.0	1336.4	1382.6
20°	1344.1	1281.6	1235.3	1216.4	1218.2	1222.4	1222.4	1234.4	1266.1	1346.7	1376.6
22.5°	1332.1	1274.7	1218.2	1197.6	1198.5	1201.9	1201.9	1212.2	1240.4	1311.5	1325.2
25°	1285.0	1234.4	1178.8	1160.8	1162.5	1168.5	1166.8	1172.8	1194.2	1252.4	1260.1
27.5°	1228.4	1183.9	1129.1	1115.4	1123.1	1135.1	1124.8	1125.6	1145.3	1194.2	1195.0
30°	1167.6	1130.8	1082.0	1071.7	1086.2	1092.2	1082.8	1082.8	1102.5	1135.9	1135.1
32.5°	1101.7	1078.5	1043.4	1032.3	1048.5	1058.0	1046.0	1047.7	1063.1	1085.4	1076.8
35°	1040.0	1028.0	1011.7	1004.0	1014.3	1022.8	1015.1	1018.6	1033.1	1039.1	1027.1
37.5°	980.9	979.2	980.9	980.9	983.4	986.0	980.9	989.4	1002.3	994.6	980.9
40°	929.5	936.3	952.6	948.3	945.7	948.3	944.9	959.5	972.3	958.6	942.3
42.5°	886.6	899.5	924.3	924.3	919.2	920.9	919.2	937.2	946.6	927.8	909.8
45°	849.8	868.6	900.3	904.6	896.1	896.1	899.5	921.8	925.2	899.5	880.6
47.5°	824.1	847.2	883.2	890.9	878.1	877.2	886.6	910.6	910.6	880.6	859.2
50°	806.1	831.8	874.6	884.9	872.1	868.6	884.1	907.2	902.1	866.1	844.7
52.5°	794.1	820.7	873.8	888.4	879.8	876.4	891.8	908.1	895.2	856.7	834.4
55°	786.4	815.5	876.4	888.4	878.9	872.9	888.4	902.9	896.1	851.5	830.1
57.5°	790.7	819.8	872.9	878.9	867.8	857.5	875.5	896.1	893.5	853.2	831.8
60°	783.8	810.4	854.1	855.8	837.0	820.7	847.2	878.1	878.1	847.2	828.4
62.5°	752.1	778.7	817.2	819.0	797.5	779.6	810.4	847.2	846.4	821.5	801.8
65°	699.9	724.7	768.4	772.7	751.3	732.4	764.1	798.4	801.0	778.7	761.6
67.5°	642.5	664.8	697.3	714.4	696.5	676.8	705.9	738.4	737.6	711.0	693.0
70°	574.0	594.5	624.5	639.1	627.9	609.1	635.6	652.8	645.1	632.2	620.2
72.5°	506.3	526.0	554.3	554.3	542.3	524.3	532.0	562.8	572.2	562.8	555.1
75°	435.2	452.3	472.0	476.3	449.7	417.2	453.2	479.7	490.9	486.6	477.2
77.5°	362.4	375.2	404.3	396.6	346.9	329.8	358.9	398.3	406.1	403.5	390.6
80°	279.3	287.0	317.8	302.4	263.8	252.7	265.6	296.4	298.1	289.5	273.3
82.5°	187.6	197.9	218.4	188.5	187.6	177.3	167.0	170.5	185.9	184.2	173.0
85°	95.9	101.1	120.8	113.1	96.8	84.0	79.7	84.8	76.2	69.4	60.0
87.5°	40.3	43.7	60.0	33.4	10.3	0.0	0.0	5.1	7.7	11.1	12.0
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°	1396.3	1396.3	1396.3	1396.3	1396.3	1396.3	1396.3	1396.3	1396.3	1396.3	1396.3
2.5°	1277.3	1286.7	1309.8	1338.9	1367.2	1396.3	1428.0	1447.7	1471.7	1502.6	1503.4
5°	1188.2	1209.6	1243.0	1287.6	1333.8	1386.9	1448.6	1500.0	1561.7	1610.5	1630.2
7.5°	1133.4	1164.2	1206.2	1262.7	1323.5	1389.5	1470.0	1556.5	1657.6	1722.7	1761.3
10°	1138.5	1185.6	1227.6	1275.6	1330.4	1401.5	1505.1	1619.9	1744.1	1829.8	1877.8
12.5°	1230.2	1279.8	1272.1	1269.6	1306.4	1392.9	1533.4	1684.2	1835.8	1921.5	1978.9
15°	1345.8	1364.6	1291.8	1237.0	1259.3	1362.1	1548.8	1741.6	1912.1	2016.6	2073.1
17.5°	1404.9	1367.2	1279.0	1196.7	1190.7	1315.0	1556.5	1799.8	1997.7	2102.2	2162.2
20°	1377.5	1322.7	1248.1	1170.2	1127.4	1250.7	1552.3	1846.1	2075.7	2192.2	2241.0
22.5°	1318.4	1270.4	1212.2	1137.6	1076.0	1180.5	1541.1	1892.3	2145.1	2262.4	2305.3
25°	1254.1	1218.2	1170.2	1105.1	1046.8	1118.8	1533.4	1954.0	2224.7	2337.0	2364.4
27.5°	1189.9	1163.3	1123.9	1073.4	1040.0	1076.0	1536.0	2034.6	2327.5	2433.8	2422.6
30°	1126.5	1103.4	1076.0	1053.7	1039.1	1065.7	1529.1	2120.2	2440.6	2539.1	2473.2
32.5°	1066.5	1045.1	1028.0	1031.4	1040.0	1070.0	1494.0	2198.2	2544.3	2628.2	2528.0
35°	1015.1	992.9	992.9	1004.9	1036.6	1055.4	1403.2	2259.0	2659.1	2743.0	2605.9
37.5°	967.2	947.5	960.3	980.0	1010.0	1016.0	1286.7	2318.1	2826.1	2904.9	2726.7
40°	925.2	905.5	928.6	953.5	968.9	966.3	1168.5	2400.3	3023.1	3104.5	2886.9
42.5°	891.8	873.8	894.3	926.0	928.6	931.2	1082.0	2479.2	3251.9	3355.5	3162.8
45°	864.4	851.5	861.8	893.5	893.5	932.9	1028.0	2545.1	3596.2	3779.6	3669.0
47.5°	842.9	835.2	840.4	850.7	867.8	963.7	993.7	2595.7	4223.3	4583.1	4471.7
50°	831.0	823.2	830.1	808.7	860.1	979.2	982.6	2634.2	5050.0	5613.7	5475.7
52.5°	820.7	818.1	822.4	772.7	877.2	968.9	974.0	2582.8	5604.2	6627.9	6764.1
55°	817.2	819.0	798.4	746.1	897.8	934.6	948.3	2215.3	5755.0	7502.6	8348.1
57.5°	819.0	813.8	761.6	748.7	898.6	866.1	985.2	1580.5	5535.7	7882.9	9897.8
60°	813.0	787.3	717.0	771.8	859.2	785.6	958.6	1030.6	4957.5	7590.8	9987.7
62.5°	786.4	748.7	678.5	784.7	789.0	737.6	870.4	794.1	4186.5	6965.5	9120.8
65°	747.9	697.3	645.9	758.1	717.9	715.3	654.5	636.5	3366.6	6221.0	8298.4
67.5°	684.5	633.9	621.9	697.3	645.9	633.9	526.0	527.7	2686.5	5427.8	7471.7
70°	612.5	562.0	571.4	630.5	574.8	526.8	425.8	439.5	2038.0	4522.3	6357.2
72.5°	565.4	497.7	498.6	555.1	505.4	426.6	350.4	362.4	1293.5	3408.6	5054.3
75°	477.2	438.6	419.8	449.7	429.2	332.4	294.7	292.1	766.7	2443.2	3784.7
77.5°	398.3	368.4	358.9	370.9	320.4	245.9	237.3	233.0	434.3	1565.1	2480.0
80°	288.7	281.0	280.1	286.1	246.7	180.8	180.8	181.6	233.9	849.8	1398.1
82.5°	183.3	200.5	177.3	197.0	167.9	128.5	119.9	136.2	134.5	362.4	589.4
85°	76.2	104.5	97.7	103.7	79.7	70.2	75.4	81.4	78.0	139.6	229.6
87.5°	14.6	17.1	18.8	18.0	18.0	22.3	24.8	30.0	30.0	40.3	69.4
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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 CATALOG NUMBER: GWS-SA2F-722-U-SLL-W

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	1396.3	1396.3	1396.3	1396.3	1396.3	1396.3	1396.3	1396.3	1396.3	1396.3
2.5°	1536.0	1560.8	1555.7	1566.8	1552.3	1557.4	1528.3	1520.6	1515.4	1517.1
5°	1693.6	1744.1	1753.6	1772.4	1759.6	1759.6	1708.2	1669.6	1655.9	1645.6
7.5°	1853.8	1926.6	1974.6	1979.7	1972.9	1959.2	1884.6	1815.2	1790.4	1769.0
10°	1996.0	2083.4	2137.4	2163.1	2150.2	2128.8	2036.3	1941.2	1911.2	1892.3
12.5°	2104.8	2181.9	2217.9	2235.0	2233.3	2225.6	2150.2	2047.4	2015.7	1986.6
15°	2175.0	2213.6	2199.9	2199.0	2211.0	2241.9	2218.7	2138.2	2101.4	2074.8
17.5°	2220.4	2183.6	2122.8	2094.5	2120.2	2193.0	2246.1	2200.7	2167.3	2138.2
20°	2236.7	2105.7	2017.4	1965.2	1995.1	2100.5	2231.6	2246.1	2217.9	2193.9
22.5°	2217.9	2010.6	1890.6	1829.0	1858.1	1984.0	2188.8	2283.0	2264.1	2241.0
25°	2171.6	1911.2	1767.3	1711.6	1743.3	1871.8	2112.5	2317.2	2318.1	2299.3
27.5°	2114.2	1819.5	1680.8	1628.5	1659.3	1779.3	2038.0	2347.2	2377.2	2370.4
30°	2056.0	1764.7	1639.6	1602.8	1625.9	1732.2	1961.7	2378.1	2438.0	2450.0
32.5°	2029.4	1791.3	1736.4	1752.7	1722.7	1759.6	1934.3	2421.8	2511.7	2531.4
35°	2064.5	2026.8	2165.6	2229.9	2123.6	1984.0	1969.4	2487.7	2615.4	2644.5
37.5°	2235.0	2531.4	2738.7	2964.9	2780.7	2473.2	2143.3	2599.9	2763.6	2809.8
40°	2605.9	2971.7	3346.1	3638.2	3359.8	2946.0	2474.0	2767.0	2967.4	3009.4
42.5°	2955.5	3384.6	3900.3	4278.1	3916.6	3332.4	2830.4	3048.0	3236.4	3259.6
45°	3298.1	3789.8	4571.1	5096.2	4605.4	3699.9	3194.5	3522.6	3664.8	3665.6
47.5°	3699.9	4246.4	5412.3	6160.2	5519.4	4106.8	3536.3	4273.8	4471.7	4374.9
50°	4180.5	4700.5	6278.4	7398.1	6633.9	4607.1	3970.6	5189.6	5459.5	5349.8
52.5°	4823.8	5200.7	7232.7	8605.1	7848.7	5176.8	4600.2	6399.2	6488.3	6283.6
55°	5729.3	5922.9	8457.7	10095.7	9204.7	5878.4	5521.1	7917.2	7667.9	7081.1
57.5°	7791.3	7065.7	10030.6	11796.1	10739.0	7153.1	7539.4	9591.1	8704.5	7715.0
60°	9516.6	8453.5	11486.0	13483.7	12054.0	8558.0	9434.3	9882.4	8665.9	7644.8
62.5°	8934.9	8807.3	12011.1	13669.6	12502.9	9249.3	9082.2	9148.2	8100.5	7177.9
65°	7839.2	8124.5	11542.6	12788.1	12005.1	8629.9	8215.3	8469.7	7453.7	6524.3
67.5°	7192.5	7402.3	10709.0	11377.2	11100.5	7960.0	7541.1	7356.9	6449.7	5659.9
70°	6531.1	6705.0	9538.8	9606.5	9689.6	6846.4	6166.2	5617.9	4807.5	4255.0
72.5°	5643.6	5653.1	8059.4	7667.1	7824.7	5357.5	4963.5	4200.2	3499.4	2998.3
75°	4734.7	4476.0	6379.5	5359.2	5675.3	4167.6	4121.4	3165.3	2639.4	2228.2
77.5°	3609.9	3307.5	4660.2	3524.3	3986.0	2775.6	3098.5	2146.8	1857.2	1482.9
80°	2423.5	2235.0	2575.1	1989.2	2607.7	1912.9	2020.8	1216.4	1054.5	818.1
82.5°	1278.1	1091.4	1591.7	1179.6	1572.8	1051.1	758.1	376.1	320.4	258.7
85°	495.1	573.1	780.4	419.8	609.9	375.2	219.3	93.4	78.0	59.1
87.5°	95.9	148.2	81.4	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)