

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: P631440

Luminaire Tested: GWS-SA1F-760-U-SLL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631440
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-39)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-760-U-SLL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (16) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6616.1 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

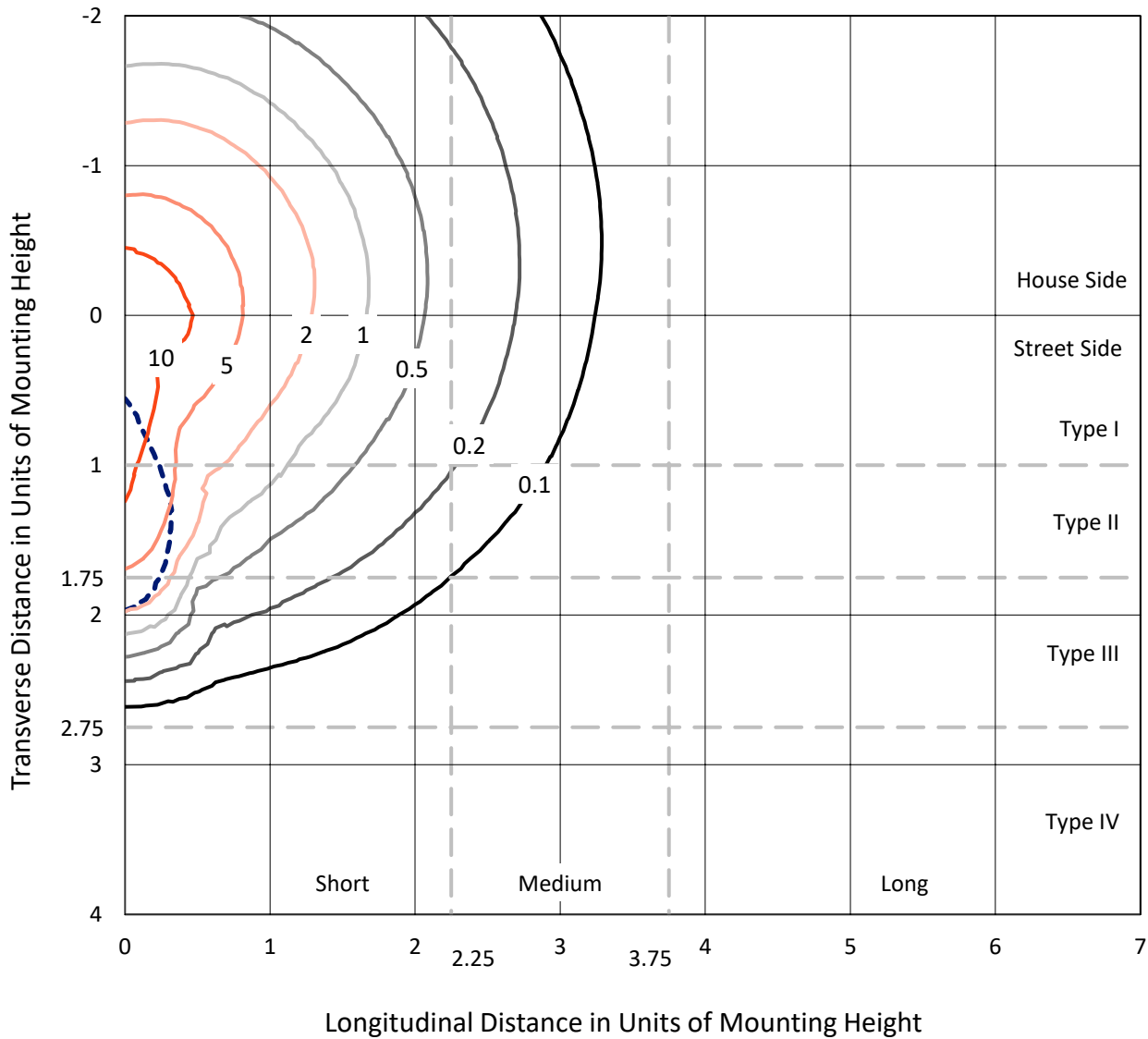
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

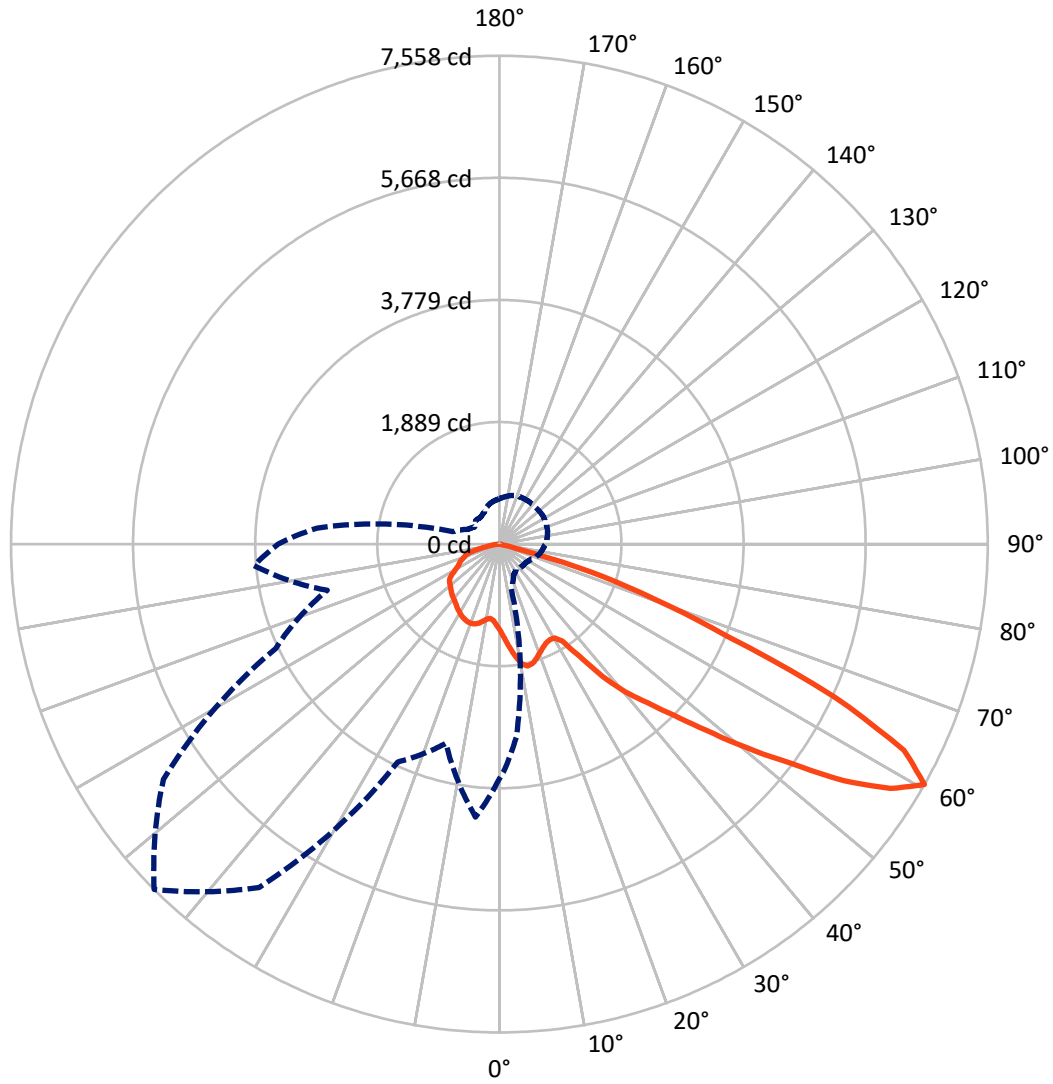
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2263.3	0.0	2263.3
	% Fixture	34.2	0.0	34.2
Street Side	Lumens	4352.8	0.0	4352.8
	% Fixture	65.8	0.0	65.8
Total	Lumens	6616.1	0.0	6616.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.4	2.0
10°-20°	418.2	6.3
20°-30°	681.0	10.3
30°-40°	956.7	14.5
40°-50°	1309.1	19.8
50°-60°	1679.5	25.4
60°-70°	1130.9	17.1
70°-80°	282.7	4.3
80°-90°	27.6	0.4
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°	6616.1	100.0
0°-180°	6616.1	100.0

Coefficient of Utilization



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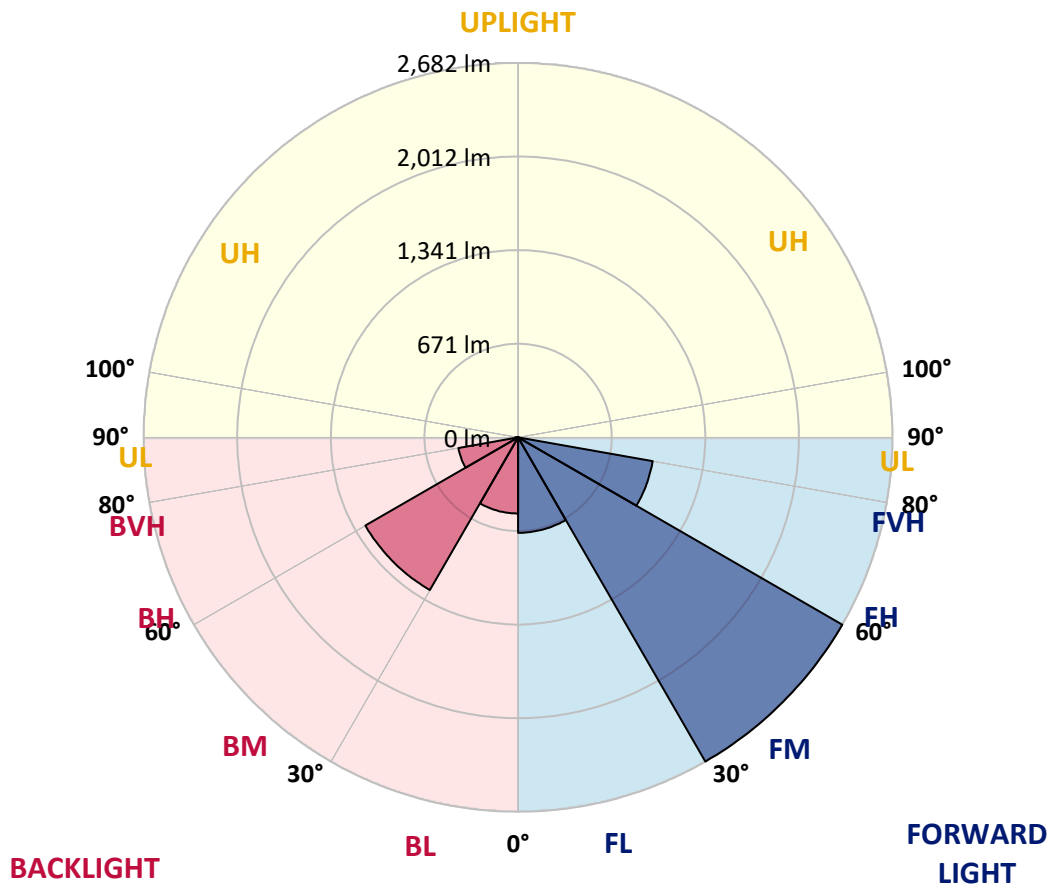
CATALOG NUMBER: GWS-SA1F-760-U-SLL-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	684.0	10.3			
FM (30°-60°)	2682.2	40.5			
FH (60°-80°)	979.5	14.8			G1/1800
FVH (80°-90°)	7.2	0.1			G0/10
BL (0°-30°)	545.6	8.2	B2/1000		
BM (30°-60°)	1263.1	19.1	B2/2500		
BH (60°-80°)	434.2	6.6	B1/500		G1/500
BVH (80°-90°)	20.4	0.3			G1/100
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°	1334.4	1334.4	1334.4	1334.4	1334.4	1334.4	1334.4	1334.4	1334.4	1334.4	1334.4
2.5°	1411.8	1408.7	1405.7	1381.9	1375.8	1358.8	1346.6	1331.4	1309.4	1297.2	1286.9
5°	1500.1	1495.3	1478.8	1430.1	1398.4	1363.6	1335.0	1303.3	1269.8	1247.9	1230.8
7.5°	1583.6	1582.4	1554.4	1473.9	1422.7	1372.8	1333.8	1287.5	1239.3	1206.4	1184.5
10°	1661.0	1651.8	1618.3	1513.5	1446.5	1389.2	1347.2	1296.0	1240.0	1195.5	1166.2
12.5°	1729.2	1717.7	1671.3	1550.1	1467.2	1396.5	1350.8	1308.8	1271.6	1234.5	1201.0
15°	1785.3	1771.3	1724.4	1584.2	1485.5	1392.3	1328.3	1295.4	1308.2	1324.6	1287.5
17.5°	1837.7	1823.1	1765.8	1609.2	1491.0	1366.1	1272.9	1258.8	1323.4	1398.4	1381.3
20°	1881.6	1865.1	1798.7	1621.4	1481.2	1316.1	1201.0	1225.3	1310.6	1400.2	1427.6
22.5°	1929.1	1915.7	1835.9	1639.1	1469.1	1247.3	1140.6	1200.3	1288.7	1367.3	1408.7
25°	2005.3	1988.8	1893.7	1670.1	1463.0	1182.7	1097.4	1176.0	1258.2	1329.5	1361.8
27.5°	2115.5	2085.1	1973.0	1724.4	1469.7	1121.7	1070.0	1146.1	1222.9	1283.8	1310.0
30°	2235.6	2199.0	2060.7	1780.4	1479.4	1084.6	1055.3	1112.0	1168.7	1229.6	1258.2
32.5°	2377.5	2345.2	2154.5	1822.5	1458.7	1067.5	1044.4	1074.8	1119.9	1168.7	1192.4
35°	2546.9	2489.0	2256.9	1856.6	1391.7	1042.5	1034.6	1034.0	1057.8	1105.3	1132.1
37.5°	2729.1	2667.0	2383.0	1893.1	1287.5	1002.9	1011.5	985.9	1007.8	1045.6	1076.0
40°	2878.4	2813.2	2510.4	1943.1	1157.1	940.8	960.3	932.9	946.3	985.3	1019.4
42.5°	3024.6	2955.2	2629.2	1999.8	1031.0	879.8	889.6	879.2	883.5	924.3	971.9
45°	3216.6	3138.6	2775.4	2040.0	917.6	831.7	822.6	804.9	827.4	880.5	931.0
47.5°	3537.1	3443.8	3014.9	2066.2	835.4	804.3	762.3	751.9	779.9	839.0	891.4
50°	3911.8	3831.4	3397.5	2065.0	773.8	781.1	703.8	694.6	740.9	800.6	856.1
52.5°	4218.9	4137.2	3724.7	2004.0	723.3	731.8	669.6	644.0	707.4	762.9	818.3
55°	4466.9	4374.9	3875.2	1749.3	659.3	653.2	632.5	585.6	665.4	725.1	776.9
57.5°	4333.4	4223.8	3693.1	1330.1	593.5	555.1	568.5	533.8	608.1	683.0	733.0
60°	3633.3	3534.6	3000.3	708.0	522.2	463.7	491.7	497.2	545.3	632.5	683.6
62.5°	2495.7	2423.8	2033.3	429.6	411.9	372.3	416.2	455.8	491.7	565.4	609.9
65°	1221.1	1199.7	1016.9	275.4	288.2	301.0	344.9	393.0	446.0	510.6	557.5
67.5°	336.3	338.8	308.3	215.1	227.3	262.6	297.3	335.7	388.7	448.5	496.0
70°	148.1	150.5	155.4	165.7	188.9	221.2	257.1	296.7	345.5	395.4	441.1
72.5°	103.0	105.4	112.7	126.1	146.8	177.3	211.4	249.2	299.8	341.8	379.6
75°	63.4	65.2	71.9	83.5	97.5	120.6	154.2	188.9	233.4	271.8	305.3
77.5°	33.5	32.3	36.6	44.5	56.7	68.9	91.4	113.3	145.0	176.1	204.1
80°	18.3	17.7	20.1	24.4	28.0	37.8	53.0	67.6	85.9	103.6	118.8
82.5°	7.9	7.3	7.9	10.4	12.8	18.3	26.8	37.2	47.5	59.7	69.5
85°	0.0	0.0	0.0	0.6	3.0	4.9	9.1	13.4	19.5	26.8	32.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	5.5
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°	1334.4	1334.4	1334.4	1334.4	1334.4	1334.4	1334.4	1334.4	1334.4	1334.4	1334.4
2.5°	1280.8	1265.5	1264.3	1252.1	1253.4	1254.0	1241.8	1236.9	1241.2	1246.0	1243.6
5°	1224.7	1208.9	1202.2	1190.6	1189.4	1183.9	1179.0	1172.9	1177.2	1181.5	1183.9
7.5°	1176.0	1165.6	1161.4	1158.3	1159.5	1157.1	1147.3	1141.9	1141.2	1143.1	1145.5
10°	1160.1	1151.6	1157.1	1165.6	1171.7	1176.0	1165.6	1156.5	1147.9	1144.3	1144.3
12.5°	1194.3	1183.3	1194.3	1203.4	1215.6	1218.6	1207.1	1197.3	1194.3	1197.9	1205.2
15°	1269.8	1244.2	1243.6	1249.1	1258.8	1263.7	1252.7	1247.9	1247.9	1271.0	1289.3
17.5°	1345.4	1303.3	1285.7	1282.6	1288.7	1290.5	1281.4	1277.1	1288.1	1333.2	1367.3
20°	1398.4	1347.2	1308.8	1301.5	1303.3	1303.9	1296.6	1293.6	1309.4	1364.3	1392.9
22.5°	1392.9	1355.1	1308.2	1299.1	1302.1	1300.9	1294.2	1293.0	1305.8	1353.3	1366.7
25°	1355.1	1325.9	1286.3	1280.2	1285.0	1284.4	1277.7	1274.7	1280.2	1311.9	1313.1
27.5°	1311.9	1286.3	1252.1	1250.3	1258.2	1262.5	1250.9	1241.8	1240.0	1261.3	1256.4
30°	1260.1	1241.2	1213.8	1215.0	1229.6	1232.0	1218.0	1204.6	1201.0	1212.5	1205.8
32.5°	1198.5	1192.4	1177.8	1180.8	1194.9	1199.7	1185.1	1171.1	1166.8	1170.5	1156.5
35°	1146.1	1143.7	1144.9	1150.4	1162.6	1166.2	1154.0	1143.1	1137.0	1124.2	1105.9
37.5°	1091.9	1098.6	1116.3	1126.6	1133.3	1132.1	1125.4	1117.5	1107.7	1084.0	1061.4
40°	1041.3	1058.4	1090.1	1101.6	1104.1	1104.7	1099.8	1093.1	1080.9	1049.2	1023.6
42.5°	1002.3	1021.2	1063.3	1080.9	1082.1	1083.4	1078.5	1073.0	1055.9	1013.9	988.9
45°	961.5	986.5	1035.8	1057.2	1055.9	1055.3	1051.1	1048.6	1028.5	979.8	952.4
47.5°	926.8	956.0	1009.0	1027.3	1026.7	1026.1	1023.0	1023.0	1002.9	949.9	918.8
50°	892.6	926.2	981.6	996.8	998.1	996.8	995.6	997.4	973.7	917.0	886.6
52.5°	855.5	893.3	951.1	965.2	972.5	975.5	975.5	971.2	943.2	884.1	850.6
55°	814.7	850.6	917.6	936.5	942.6	948.1	948.1	939.6	913.4	853.6	817.7
57.5°	764.1	795.8	848.8	867.7	882.3	885.9	885.9	871.9	850.6	793.3	764.1
60°	709.2	736.7	772.6	792.7	803.7	796.4	801.9	798.2	781.1	728.1	703.8
62.5°	636.1	664.2	703.8	724.5	729.3	722.0	729.3	728.7	705.6	658.1	628.8
65°	583.7	611.1	650.1	676.9	684.9	683.0	687.9	680.6	652.0	606.9	578.8
67.5°	521.6	550.8	595.9	625.8	642.2	644.0	650.7	635.5	606.3	556.9	521.6
70°	462.5	487.5	522.2	550.2	573.4	584.9	586.2	564.2	527.7	486.8	461.3
72.5°	400.3	425.9	468.0	498.4	527.7	541.1	541.1	514.3	474.7	429.6	402.1
75°	324.8	348.5	386.9	419.8	453.3	470.4	469.8	446.6	402.8	360.1	331.5
77.5°	220.0	237.6	262.0	287.0	291.9	305.3	312.0	282.7	258.3	235.2	209.6
80°	128.0	138.9	152.3	166.3	169.4	173.7	162.7	151.7	138.9	123.7	112.1
82.5°	74.9	82.3	89.0	99.9	101.8	103.0	93.2	88.4	78.0	68.9	61.5
85°	36.6	39.0	45.1	50.6	48.1	46.9	42.7	37.8	33.5	29.9	26.2
87.5°	7.3	7.3	11.0	10.4	8.5	7.3	4.3	5.5	1.2	1.2	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°	1334.4	1334.4	1334.4	1334.4	1334.4	1334.4	1334.4	1334.4	1334.4	1334.4	1334.4
2.5°	1251.5	1261.9	1274.7	1291.7	1311.2	1332.0	1352.1	1367.3	1382.5	1405.1	1401.4
5°	1187.6	1205.2	1225.3	1251.5	1283.2	1319.2	1359.4	1399.6	1442.9	1479.4	1495.3
7.5°	1150.4	1169.9	1193.6	1227.8	1268.6	1312.5	1369.1	1434.3	1504.4	1552.5	1582.4
10°	1150.4	1175.4	1206.4	1239.3	1275.3	1320.4	1390.5	1472.1	1562.3	1625.6	1660.4
12.5°	1216.8	1241.8	1248.5	1247.3	1267.4	1317.3	1407.5	1511.7	1619.6	1686.6	1729.2
15°	1320.4	1328.9	1278.3	1232.0	1235.1	1295.4	1415.4	1543.4	1668.9	1749.3	1795.6
17.5°	1389.8	1367.3	1277.1	1196.1	1179.0	1258.2	1415.4	1573.9	1721.3	1812.1	1855.4
20°	1395.3	1339.3	1246.0	1161.4	1117.5	1208.9	1405.7	1597.0	1771.9	1872.4	1918.7
22.5°	1347.2	1291.7	1213.1	1131.5	1066.9	1149.2	1389.8	1614.7	1815.1	1929.1	1986.4
25°	1292.4	1246.0	1179.6	1101.0	1032.2	1088.8	1375.2	1644.5	1875.5	2005.9	2063.7
27.5°	1238.7	1199.7	1139.4	1075.4	1012.7	1036.4	1366.1	1688.4	1947.4	2114.9	2164.9
30°	1186.3	1151.0	1096.2	1051.1	1002.3	1002.3	1358.2	1739.0	2042.4	2237.4	2287.4
32.5°	1133.3	1099.8	1055.3	1027.3	996.2	988.9	1336.2	1786.5	2140.5	2371.4	2422.6
35°	1084.0	1050.5	1016.3	1004.8	993.2	978.6	1282.0	1823.7	2236.2	2528.0	2571.9
37.5°	1037.7	1005.4	979.8	976.7	977.9	950.5	1196.7	1854.8	2355.6	2688.3	2711.4
40°	997.4	961.5	941.4	940.8	946.9	905.4	1088.8	1899.2	2492.1	2824.2	2814.4
42.5°	961.5	923.7	899.3	904.8	901.2	860.4	983.4	1940.1	2610.9	2951.5	2932.0
45°	926.2	889.6	855.5	863.4	859.1	832.3	893.9	1969.9	2742.5	3104.5	3106.9
47.5°	892.0	856.1	822.0	812.2	811.6	823.8	825.0	1979.7	2957.0	3350.6	3295.2
50°	860.4	824.4	789.1	756.2	769.0	806.7	773.8	1972.3	3278.1	3622.4	3467.6
52.5°	827.4	793.3	754.3	695.2	728.7	765.9	728.1	1946.1	3474.3	3862.4	3769.8
55°	789.7	757.4	704.4	632.5	673.3	681.2	681.2	1692.7	3557.8	4100.1	4157.3
57.5°	739.1	696.4	612.4	554.5	591.0	560.6	631.2	1184.5	3420.1	4025.1	4247.5
60°	681.8	636.1	547.2	505.7	516.7	463.1	538.0	742.8	2834.5	3425.0	3810.0
62.5°	606.3	564.2	490.5	458.2	435.7	377.8	433.2	469.8	1943.1	2543.3	2805.9
65°	555.7	509.4	443.6	400.9	354.6	304.0	287.6	308.3	1045.0	1423.4	1600.7
67.5°	496.0	450.3	388.1	334.5	297.3	260.8	232.1	224.8	358.3	474.0	513.0
70°	439.3	395.4	343.7	293.7	256.5	220.6	192.5	172.4	165.7	164.5	162.1
72.5°	381.4	340.6	297.3	251.0	210.2	177.3	152.3	129.2	119.4	116.4	113.3
75°	312.6	280.3	237.0	187.1	154.2	123.7	104.2	89.0	80.4	77.4	73.7
77.5°	201.1	186.4	148.7	120.6	93.2	73.7	63.4	53.6	48.1	46.9	43.9
80°	107.2	99.9	82.3	69.5	55.4	45.1	39.6	34.1	31.1	29.9	28.6
82.5°	59.7	54.2	45.7	40.2	32.3	27.4	24.4	21.9	20.1	19.5	18.9
85°	26.8	23.2	18.3	17.1	15.2	14.0	13.4	12.2	11.6	11.0	10.4
87.5°	1.2	2.4	3.0	2.4	2.4	3.7	4.3	4.3	3.7	3.7	3.0
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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CATALOG NUMBER: GWS-SA1F-760-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1334.4	1334.4	1334.4	1334.4	1334.4	1334.4	1334.4	1334.4	1334.4	1334.4
2.5°	1424.0	1442.2	1444.1	1450.2	1442.2	1440.4	1427.6	1420.3	1413.6	1411.8
5°	1534.9	1571.4	1586.0	1596.4	1586.7	1581.8	1553.7	1524.5	1508.1	1500.1
7.5°	1648.8	1703.6	1732.3	1745.1	1746.3	1724.4	1676.2	1621.4	1594.0	1583.6
10°	1750.6	1818.2	1856.0	1880.3	1871.8	1845.0	1779.2	1704.9	1670.1	1661.0
12.5°	1826.1	1890.7	1919.9	1935.8	1935.2	1920.6	1858.4	1778.0	1738.4	1729.2
15°	1874.9	1913.2	1915.1	1918.7	1929.1	1948.6	1916.3	1842.0	1798.1	1785.3
17.5°	1913.2	1898.0	1869.4	1859.6	1882.8	1937.0	1956.5	1896.2	1848.7	1837.7
20°	1937.6	1860.8	1810.3	1791.4	1818.2	1906.5	1980.9	1944.9	1895.6	1881.6
22.5°	1956.5	1826.1	1744.5	1731.7	1759.7	1873.6	2005.9	2002.8	1948.6	1929.1
25°	1986.4	1803.0	1698.2	1689.0	1715.2	1857.8	2039.4	2081.4	2033.3	2005.3
27.5°	2033.3	1800.5	1674.4	1671.3	1707.3	1871.8	2087.5	2196.6	2136.3	2115.5
30°	2098.5	1823.7	1679.9	1686.0	1729.8	1922.4	2162.5	2328.2	2267.9	2235.6
32.5°	2192.3	1885.8	1763.4	1789.6	1821.8	2003.4	2272.1	2470.8	2425.1	2377.5
35°	2316.0	2056.4	2010.1	2121.6	2091.2	2180.7	2404.4	2643.8	2588.4	2546.9
37.5°	2481.1	2406.2	2448.8	2602.4	2528.7	2515.9	2565.8	2801.0	2770.5	2729.1
40°	2712.7	2727.9	2806.5	3008.2	2901.6	2819.3	2763.8	2919.2	2929.6	2878.4
42.5°	2866.2	2936.3	3125.8	3354.9	3208.0	3011.2	2929.6	3070.3	3070.9	3024.6
45°	2923.5	3106.9	3502.9	3766.8	3521.2	3120.9	3021.0	3275.7	3269.6	3216.6
47.5°	2902.8	3250.7	3894.7	4298.1	3923.4	3198.9	3008.2	3568.1	3617.5	3537.1
50°	2859.5	3395.1	4352.3	4948.8	4416.9	3281.8	2988.7	3892.3	3973.9	3911.8
52.5°	2903.4	3556.0	4893.4	5621.5	5036.0	3414.0	3120.3	4308.5	4293.8	4218.9
55°	3042.3	3746.1	5550.8	6466.6	5716.0	3637.6	3458.5	4705.1	4556.4	4466.9
57.5°	3035.6	3881.9	6127.3	7135.1	6307.6	3821.0	3576.1	4747.2	4446.8	4333.4
60°	2755.3	3819.8	6346.6	7557.9	6486.1	3719.9	3189.1	4240.2	3752.2	3633.3
62.5°	2056.4	3389.6	5921.3	7028.4	5981.0	3212.9	2398.3	3043.5	2696.2	2495.7
65°	1315.5	2651.7	4978.1	5694.0	4930.0	2457.4	1428.2	1631.7	1278.3	1221.1
67.5°	560.0	1871.8	3869.8	3805.8	3688.2	1592.1	551.4	459.4	342.4	336.3
70°	185.2	1273.5	2385.5	2538.4	2202.7	1096.8	182.2	154.2	153.5	148.1
72.5°	121.3	683.6	1342.9	1495.3	1417.3	631.2	110.3	103.0	105.4	103.0
75°	72.5	148.7	226.1	293.7	226.1	106.0	66.4	65.2	66.4	63.4
77.5°	42.7	41.4	40.2	40.2	39.6	36.6	33.5	32.3	32.9	33.5
80°	27.4	26.2	25.0	24.4	21.3	20.1	18.9	17.7	17.7	18.3
82.5°	17.7	16.5	15.2	13.4	11.0	9.1	8.5	7.3	7.3	7.9
85°	9.1	7.3	5.5	4.3	2.4	1.2	0.0	0.0	0.0	0.0
87.5°	1.8	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)