

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: P633804

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633804
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8698.9 lumens
Efficiency: N/A
Efficacy: 69.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

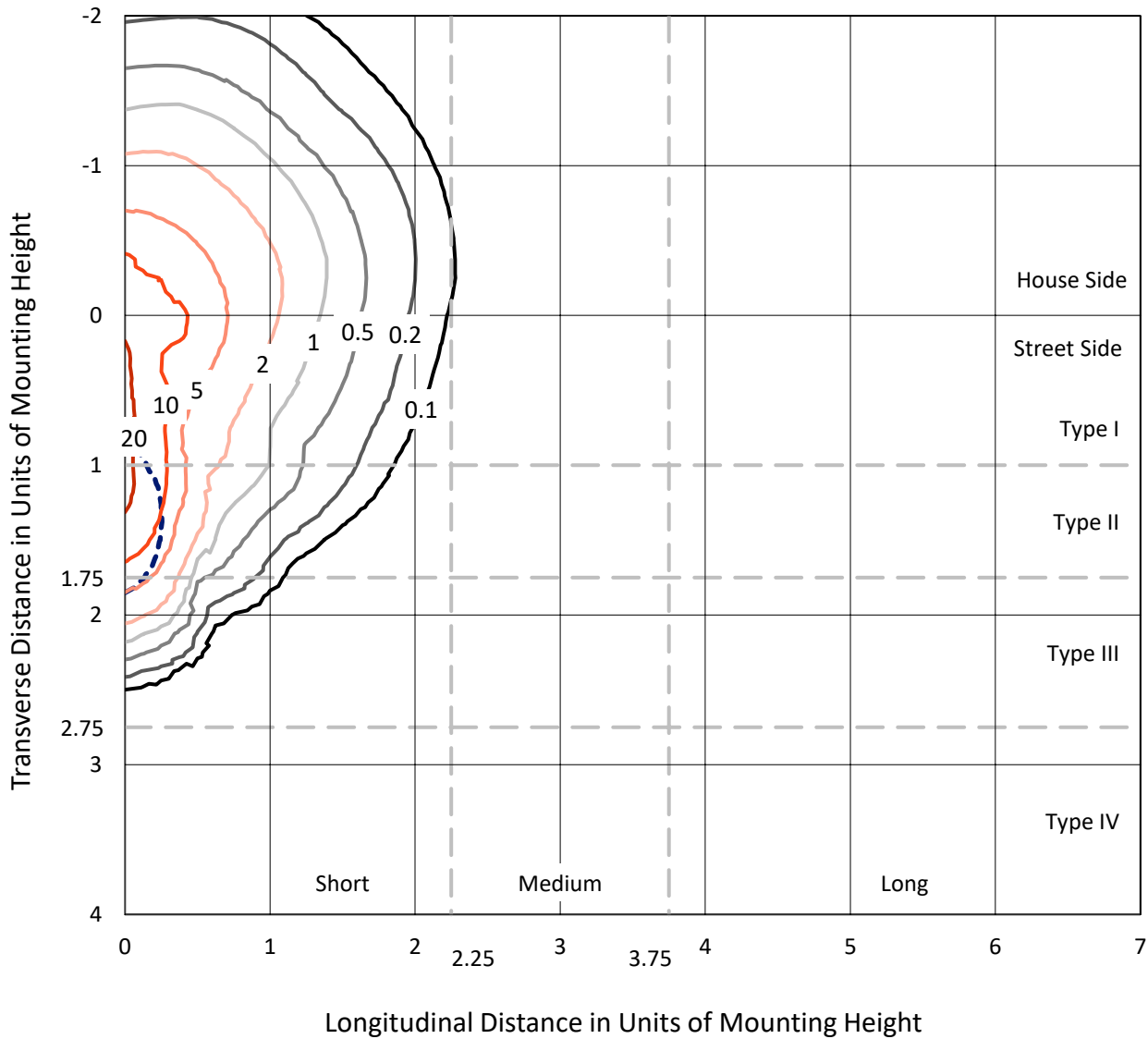
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

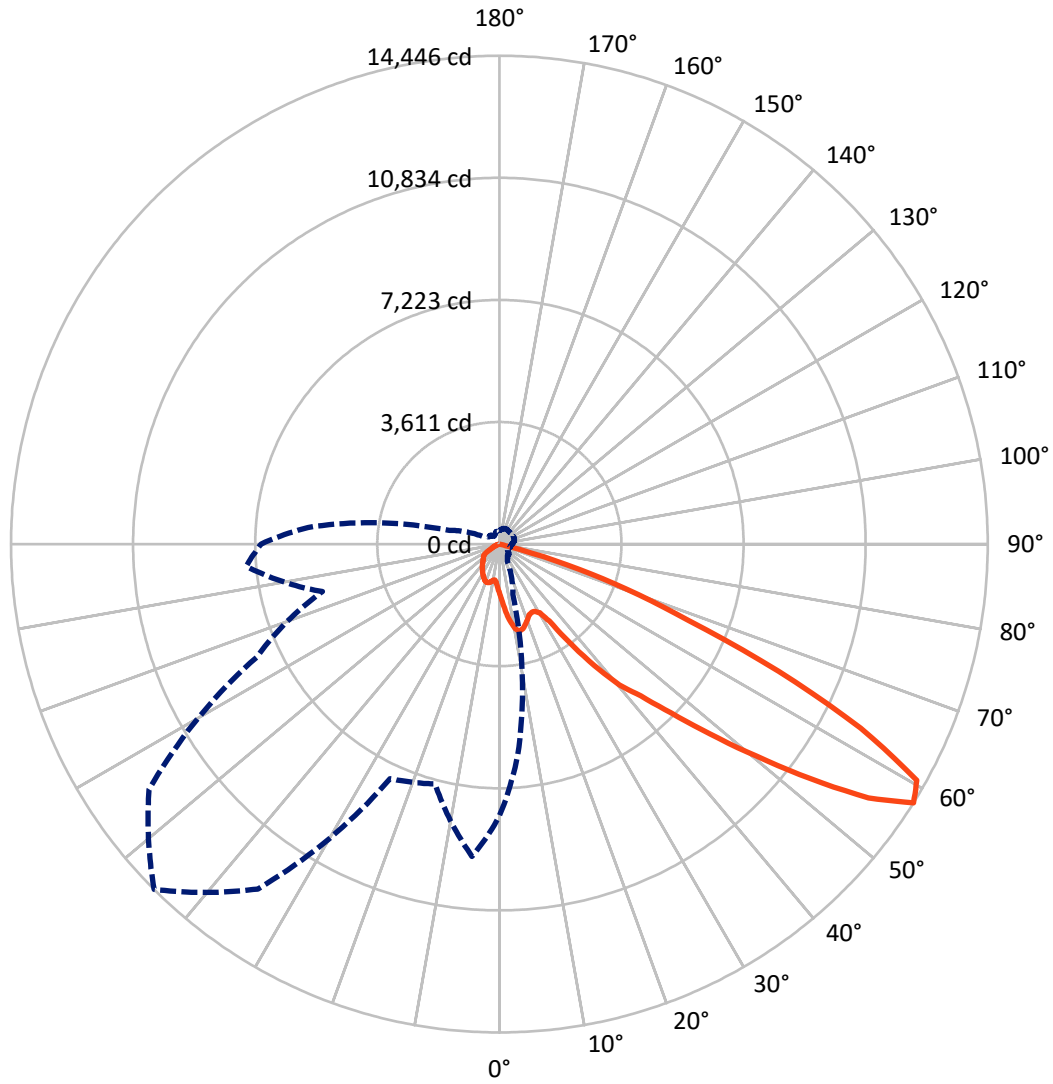
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 23.2 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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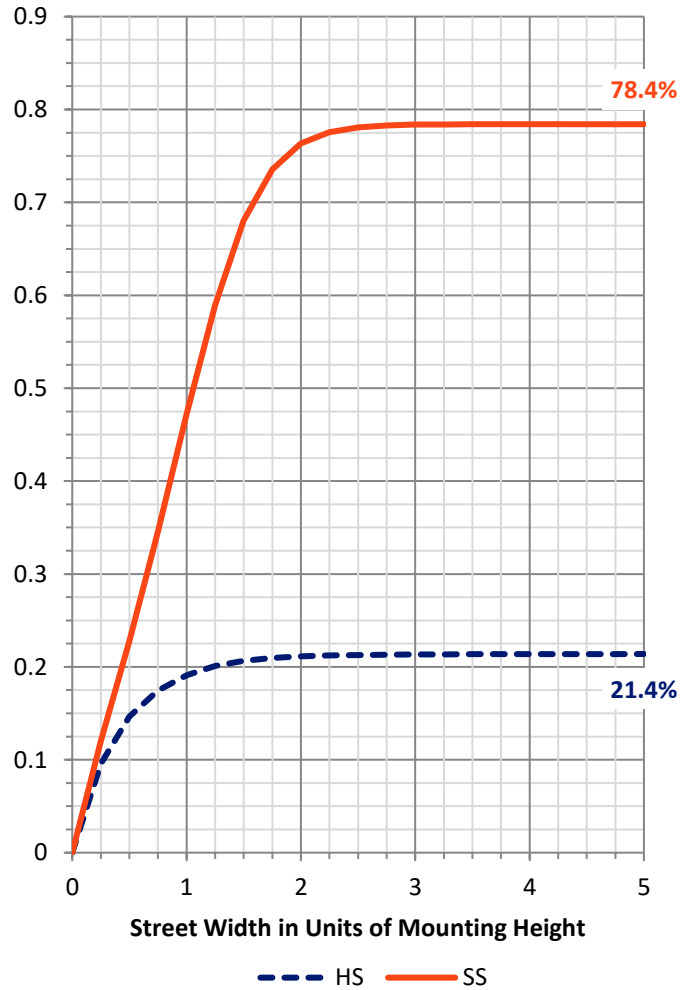
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1874.0	0.0	1874.0
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	6824.9	0.0	6824.9
	% Fixture	78.5	0.0	78.5
Total	Lumens	8698.9	0.0	8698.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.1	1.7
10°-20°	480.7	5.5
20°-30°	780.1	9.0
30°-40°	1197.3	13.8
40°-50°	1912.2	22.0
50°-60°	2677.5	30.8
60°-70°	1372.8	15.8
70°-80°	132.2	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°	8698.9	100.0
0°-180°	8698.9	100.0

Coefficient of Utilization



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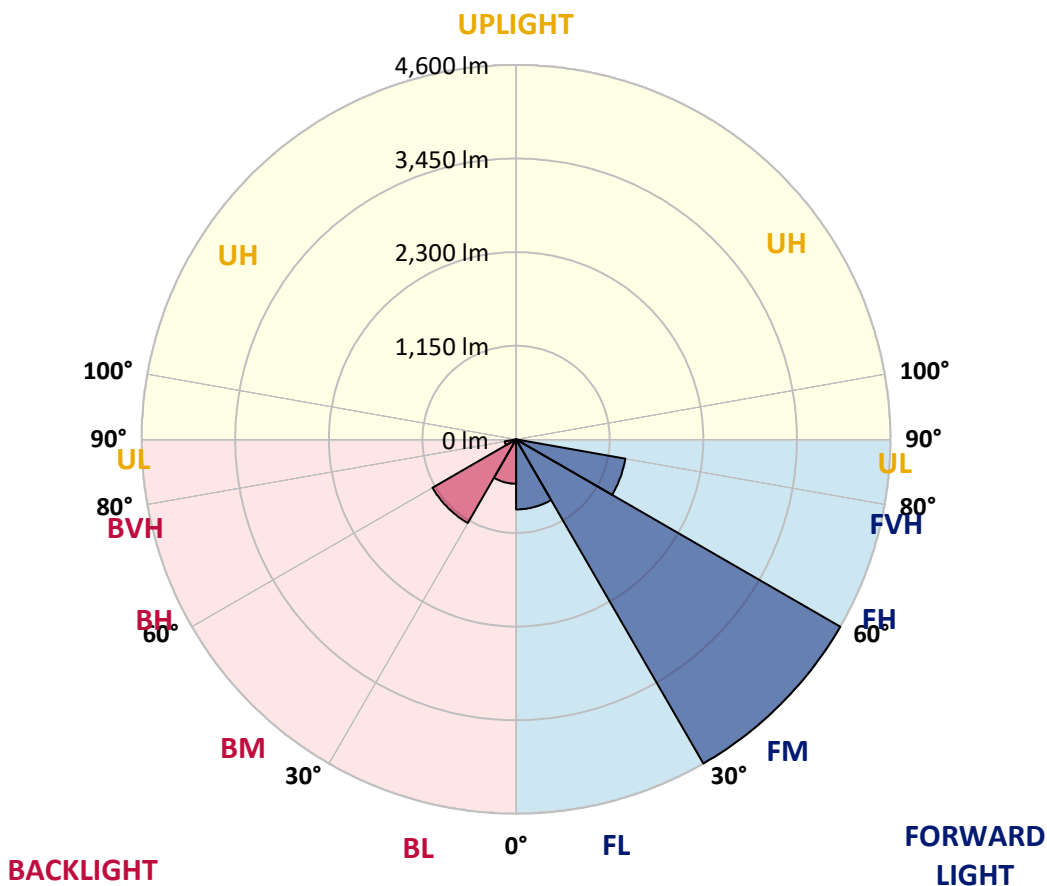
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	861.2	9.9			
FM (30°-60°)	4600.2	52.9			
FH (60°-80°)	1363.4	15.7			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	545.7	6.3	B2/1000		
BM (30°-60°)	1186.8	13.6	B2/2500		
BH (60°-80°)	141.5	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°	1478.1	1478.1	1478.1	1478.1	1478.1	1478.1	1478.1	1478.1	1478.1	1478.1	1478.1
2.5°	1642.0	1638.6	1626.9	1587.4	1563.0	1524.6	1496.7	1460.6	1421.1	1396.7	1372.2
5°	1816.5	1807.2	1775.8	1685.1	1615.3	1539.7	1479.2	1412.9	1342.0	1295.5	1252.5
7.5°	1983.9	1970.0	1928.1	1774.6	1668.8	1560.6	1474.6	1378.1	1278.0	1208.3	1154.8
10°	2147.9	2116.5	2050.2	1861.8	1718.8	1588.5	1487.4	1376.9	1259.4	1171.1	1111.8
12.5°	2282.8	2259.6	2168.8	1944.4	1760.7	1594.4	1469.9	1367.6	1288.5	1229.2	1174.5
15°	2399.1	2373.5	2287.5	2018.8	1796.7	1571.1	1396.7	1307.1	1319.9	1343.2	1296.7
17.5°	2506.1	2479.3	2386.3	2080.5	1810.7	1514.1	1294.3	1251.3	1322.2	1409.5	1392.0
20°	2616.6	2586.3	2472.4	2130.5	1806.0	1424.6	1190.8	1203.6	1303.6	1403.6	1412.9
22.5°	2745.7	2714.3	2581.7	2194.4	1802.5	1317.6	1101.3	1161.8	1268.7	1353.6	1369.9
25°	2916.6	2879.4	2734.0	2288.6	1811.8	1219.9	1037.3	1121.1	1209.4	1286.2	1295.5
27.5°	3142.2	3094.5	2909.6	2404.9	1831.6	1143.2	1009.4	1065.2	1133.8	1202.5	1210.6
30°	3436.4	3376.0	3110.8	2506.1	1822.3	1089.7	990.8	1009.4	1050.1	1105.9	1107.1
32.5°	3780.7	3698.1	3336.4	2593.3	1742.1	1050.1	965.2	952.4	961.7	1004.8	1012.9
35°	4185.4	4078.4	3585.3	2675.9	1595.5	973.4	918.7	875.7	872.2	893.1	912.9
37.5°	4649.4	4521.4	3899.3	2781.7	1422.3	893.1	850.1	807.1	788.5	798.9	829.2
40°	5077.3	4935.4	4227.2	2909.6	1245.5	821.0	769.9	725.7	703.6	707.1	744.3
42.5°	5579.7	5433.2	4628.4	3077.1	1099.0	772.2	686.1	640.8	611.7	628.0	671.0
45°	6342.6	6176.3	5213.4	3222.5	982.7	760.6	612.9	548.9	534.9	562.9	614.0
47.5°	7384.5	7181.0	6017.0	3310.8	883.8	771.0	561.7	474.5	478.0	509.4	560.5
50°	8418.4	8198.6	6946.1	3194.5	802.4	750.1	536.1	416.3	438.4	466.3	512.8
52.5°	9128.9	8842.8	7398.5	2858.5	728.0	671.0	533.8	361.7	403.5	412.8	452.4
55°	9156.8	8804.5	7167.1	2253.7	626.8	566.3	509.4	316.3	365.2	368.6	402.4
57.5°	8026.5	7707.8	6263.5	1547.8	557.0	415.2	405.9	276.8	300.0	329.1	350.0
60°	6106.5	5835.5	4684.2	709.4	423.3	264.0	277.9	238.4	224.4	267.5	288.4
62.5°	3740.0	3566.7	2809.6	314.0	269.8	140.7	168.6	189.6	168.6	184.9	202.3
65°	1485.0	1408.3	1066.4	133.7	110.5	70.9	76.8	110.5	118.6	130.2	146.5
67.5°	258.2	244.2	179.1	59.3	45.4	43.0	37.2	51.2	72.1	80.2	93.0
70°	33.7	32.6	29.1	24.4	23.3	20.9	16.3	32.6	48.8	51.2	59.3
72.5°	8.1	7.0	7.0	5.8	7.0	2.3	2.3	17.4	34.9	36.1	41.9
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	22.1	24.4	29.1
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°	1478.1	1478.1	1478.1	1478.1	1478.1	1478.1	1478.1	1478.1	1478.1	1478.1	1478.1
2.5°	1352.5	1329.2	1321.1	1309.4	1294.3	1299.0	1278.0	1271.1	1281.5	1295.5	1292.0
5°	1229.2	1203.6	1186.2	1159.4	1154.8	1144.3	1137.3	1128.0	1139.7	1155.9	1159.4
7.5°	1131.5	1109.4	1092.0	1083.8	1078.0	1073.4	1059.4	1052.4	1052.4	1059.4	1065.2
10°	1089.7	1073.4	1069.9	1072.2	1081.5	1080.4	1067.6	1058.3	1046.6	1040.8	1047.8
12.5°	1147.8	1121.1	1116.4	1117.6	1129.2	1128.0	1114.1	1102.4	1100.1	1102.4	1124.5
15°	1246.7	1205.9	1175.7	1169.9	1175.7	1173.4	1162.9	1155.9	1159.4	1193.2	1230.4
17.5°	1335.0	1272.2	1217.6	1196.6	1195.5	1192.0	1181.5	1179.2	1196.6	1259.4	1314.1
20°	1360.6	1299.0	1221.1	1194.3	1188.5	1185.0	1173.4	1176.9	1199.0	1274.6	1321.1
22.5°	1326.9	1267.6	1186.2	1159.4	1154.8	1153.6	1142.0	1146.6	1165.2	1231.5	1269.9
25°	1262.9	1212.9	1128.0	1104.8	1104.8	1102.4	1092.0	1094.3	1105.9	1164.1	1201.3
27.5°	1185.0	1137.3	1066.4	1043.1	1046.6	1050.1	1037.3	1033.8	1043.1	1097.8	1119.9
30°	1095.5	1061.7	1005.9	985.0	983.8	997.8	980.3	975.7	988.5	1031.5	1036.2
32.5°	1008.3	992.0	952.4	936.2	937.3	939.6	930.3	930.3	942.0	965.2	964.1
35°	923.4	912.9	905.9	894.3	893.1	888.5	888.5	890.8	903.6	911.7	896.6
37.5°	842.0	852.4	860.6	848.9	839.6	839.6	839.6	850.1	861.7	858.2	832.7
40°	769.9	791.9	817.5	804.7	782.6	781.5	786.1	803.6	821.0	800.1	776.8
42.5°	708.2	736.1	772.2	765.2	740.8	737.3	740.8	762.9	776.8	750.1	724.5
45°	647.7	682.6	725.7	725.7	698.9	695.4	696.6	725.7	733.8	702.4	669.8
47.5°	596.6	635.0	680.3	680.3	658.2	651.2	657.1	687.3	693.1	648.9	618.7
50°	547.7	589.6	639.6	636.1	621.0	615.2	625.7	658.2	651.2	602.4	571.0
52.5°	486.1	530.3	598.9	602.4	594.3	595.4	608.2	629.1	609.4	550.1	523.3
55°	430.3	475.6	544.2	562.9	562.9	561.7	567.5	583.8	567.5	496.6	464.0
57.5°	369.8	408.2	465.2	469.8	473.3	460.5	468.7	490.8	482.6	422.1	403.5
60°	303.5	336.1	368.6	372.1	357.0	330.3	345.4	371.0	376.8	331.4	310.5
62.5°	215.1	246.5	284.9	284.9	269.8	243.1	262.8	284.9	276.8	230.3	217.5
65°	160.5	189.6	218.6	231.4	218.6	200.0	215.1	231.4	218.6	180.3	161.6
67.5°	103.5	123.3	140.7	151.2	153.5	151.2	158.2	153.5	138.4	112.8	102.3
70°	62.8	73.3	82.6	91.9	98.8	102.3	105.8	95.4	80.2	66.3	62.8
72.5°	45.4	54.7	62.8	69.8	77.9	80.2	80.2	73.3	59.3	46.5	43.0
75°	31.4	39.5	46.5	51.2	58.1	60.5	60.5	54.7	44.2	33.7	30.2
77.5°	1.2	8.1	8.1	7.0	9.3	11.6	11.6	14.0	12.8	9.3	8.1
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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1478.1	1478.1	1478.1	1478.1	1478.1	1478.1	1478.1	1478.1	1478.1	1478.1	1478.1
2.5°	1299.0	1340.8	1352.5	1395.5	1433.9	1472.3	1518.8	1546.7	1588.5	1617.6	1633.9
5°	1171.1	1205.9	1247.8	1311.8	1378.1	1451.3	1539.7	1616.5	1713.0	1783.9	1807.2
7.5°	1078.0	1123.4	1172.2	1252.5	1343.2	1440.9	1565.3	1690.9	1838.6	1935.1	1996.7
10°	1060.6	1107.1	1172.2	1251.3	1346.7	1458.3	1610.6	1773.5	1958.4	2075.8	2145.6
12.5°	1144.3	1194.3	1222.2	1258.3	1330.4	1454.8	1650.2	1857.2	2074.7	2202.6	2277.0
15°	1267.6	1311.8	1266.4	1221.1	1267.6	1417.6	1672.3	1927.0	2177.0	2324.7	2401.4
17.5°	1352.5	1356.0	1257.1	1160.6	1173.4	1350.2	1680.4	1996.7	2286.3	2441.0	2521.2
20°	1344.3	1316.4	1216.4	1109.4	1069.9	1262.9	1671.1	2058.4	2396.8	2558.4	2637.5
22.5°	1281.5	1249.0	1164.1	1059.4	982.7	1159.4	1654.8	2114.2	2498.0	2681.7	2756.1
25°	1205.9	1171.1	1101.3	1009.4	926.8	1059.4	1642.0	2190.9	2625.9	2842.2	2900.3
27.5°	1117.6	1087.3	1028.0	961.7	903.6	983.8	1638.6	2292.1	2780.5	3037.5	3078.3
30°	1031.5	1003.6	957.1	918.7	894.3	939.6	1626.9	2400.3	2965.4	3262.0	3306.2
32.5°	948.9	921.0	892.0	886.1	887.3	923.4	1587.4	2507.3	3185.2	3587.6	3620.2
35°	878.0	845.4	833.8	847.8	873.4	895.4	1475.7	2595.6	3421.3	3942.3	3969.0
37.5°	810.6	778.0	776.8	810.6	838.5	852.4	1344.3	2682.9	3740.0	4302.8	4336.5
40°	748.9	716.4	728.0	768.7	790.8	797.8	1185.0	2815.4	4077.2	4683.1	4664.5
42.5°	696.6	662.9	669.8	722.2	741.9	760.6	1038.5	2925.9	4401.7	5043.6	5037.8
45°	645.4	619.8	615.2	672.2	689.6	764.0	931.5	3010.8	4819.1	5502.9	5512.2
47.5°	595.4	575.6	576.8	601.2	644.3	781.5	840.8	3066.6	5425.0	6230.9	6069.3
50°	550.1	534.9	547.7	519.8	615.2	759.4	762.9	3055.0	6101.8	6928.7	6604.2
52.5°	500.1	496.6	502.4	434.9	568.7	669.8	689.6	2900.3	6419.3	7405.5	7220.6
55°	448.9	447.7	401.2	347.7	475.6	534.9	590.8	2420.0	6408.9	7659.0	7883.4
57.5°	388.4	379.1	304.7	283.8	369.8	372.1	538.4	1585.1	5679.7	7052.0	7517.1
60°	294.2	287.2	223.3	230.3	258.2	238.4	429.1	789.6	4244.7	5493.6	6018.1
62.5°	203.5	194.2	166.3	177.9	166.3	136.1	262.8	390.7	2571.2	3469.0	3944.6
65°	148.9	138.4	114.0	97.7	77.9	77.9	100.0	150.0	995.5	1474.6	1778.1
67.5°	91.9	87.2	67.4	48.8	47.7	51.2	52.3	74.4	160.5	255.8	312.8
70°	59.3	54.7	45.4	31.4	29.1	30.2	31.4	34.9	40.7	44.2	53.5
72.5°	40.7	38.4	32.6	17.4	14.0	15.1	16.3	16.3	19.8	18.6	22.1
75°	29.1	26.7	23.3	8.1	4.7	5.8	7.0	5.8	7.0	4.7	5.8
77.5°	8.1	8.1	5.8	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



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

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1478.1	1478.1	1478.1	1478.1	1478.1	1478.1	1478.1	1478.1	1478.1	1478.1
2.5°	1675.8	1702.5	1713.0	1697.9	1710.7	1689.7	1681.6	1650.2	1647.9	1642.0
5°	1901.4	1961.8	1997.9	2020.0	1994.4	1966.5	1924.6	1852.5	1830.4	1816.5
7.5°	2123.5	2217.7	2279.3	2308.4	2301.4	2244.4	2168.8	2047.9	2004.9	1983.9
10°	2316.5	2431.7	2506.1	2542.1	2527.0	2477.0	2368.9	2217.7	2160.7	2147.9
12.5°	2451.4	2557.3	2608.4	2639.8	2641.0	2621.2	2518.9	2366.5	2299.1	2282.8
15°	2536.3	2581.7	2582.8	2601.5	2634.0	2678.2	2630.5	2495.6	2423.5	2399.1
17.5°	2589.8	2539.8	2488.6	2493.3	2546.8	2664.3	2713.1	2609.6	2532.8	2506.1
20°	2628.2	2470.0	2374.7	2375.8	2430.5	2608.4	2770.1	2720.1	2641.0	2616.6
22.5°	2652.6	2408.4	2272.3	2268.9	2327.0	2542.1	2822.4	2851.5	2773.6	2745.7
25°	2702.6	2379.3	2210.7	2230.5	2281.7	2521.2	2893.3	3025.9	2953.8	2916.6
27.5°	2792.2	2408.4	2204.9	2250.3	2308.4	2582.8	3016.6	3258.5	3184.1	3142.2
30°	2946.8	2517.7	2294.4	2357.2	2427.0	2744.5	3223.6	3583.0	3476.0	3436.4
32.5°	3195.7	2744.5	2571.2	2706.1	2773.6	3009.6	3534.1	3947.0	3859.7	3780.7
35°	3538.8	3262.0	3242.2	3556.2	3539.9	3512.0	3915.6	4393.5	4262.1	4185.4
37.5°	4010.9	4094.6	4241.2	4552.8	4542.4	4329.6	4416.8	4815.7	4748.2	4649.4
40°	4600.5	4778.4	5027.3	5473.9	5334.3	5066.8	5032.0	5248.3	5193.6	5077.3
42.5°	4948.2	5255.2	5729.7	6130.9	6019.3	5551.8	5512.2	5826.2	5706.5	5579.7
45°	5109.9	5643.7	6574.0	7117.1	6778.7	5873.9	5858.8	6579.8	6512.4	6342.6
47.5°	5184.3	6035.6	7562.5	8384.7	7752.0	6156.5	6101.8	7672.9	7584.6	7384.5
50°	5266.9	6576.3	8753.3	9853.4	8927.7	6476.3	6515.8	8691.7	8654.5	8418.4
52.5°	5448.3	7148.5	10219.7	11532.7	10353.5	6977.5	7226.4	9652.2	9401.0	9128.9
55°	5720.4	7771.8	11745.5	13248.0	11808.3	7650.9	7995.1	10162.8	9458.0	9156.8
57.5°	5419.2	7927.6	12649.1	14445.8	12453.7	7653.2	7345.0	9277.8	8318.4	8026.5
60°	4300.5	7375.2	12301.4	14186.5	11903.7	6796.1	5623.9	7243.8	6301.9	6106.5
62.5°	2907.3	6185.6	10829.1	11997.9	10188.3	5345.9	3655.1	4711.0	3901.6	3740.0
65°	1593.2	4614.5	8749.8	9076.6	7974.1	3734.1	1880.4	2044.4	1557.2	1485.0
67.5°	439.6	3212.0	6437.9	6021.6	5594.8	2431.7	486.1	365.2	260.5	258.2
70°	110.5	2124.7	3857.4	3976.0	3430.6	1557.2	93.0	44.2	34.9	33.7
72.5°	46.5	914.1	1830.4	2103.7	1756.0	721.0	33.7	12.8	10.5	8.1
75°	5.8	73.3	155.8	236.1	161.6	77.9	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)