

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: P633859

Luminaire Tested: GWS-SA2F-750-U-SLL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633859
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-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8898.2 lumens
Efficiency: N/A
Efficacy: 71.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

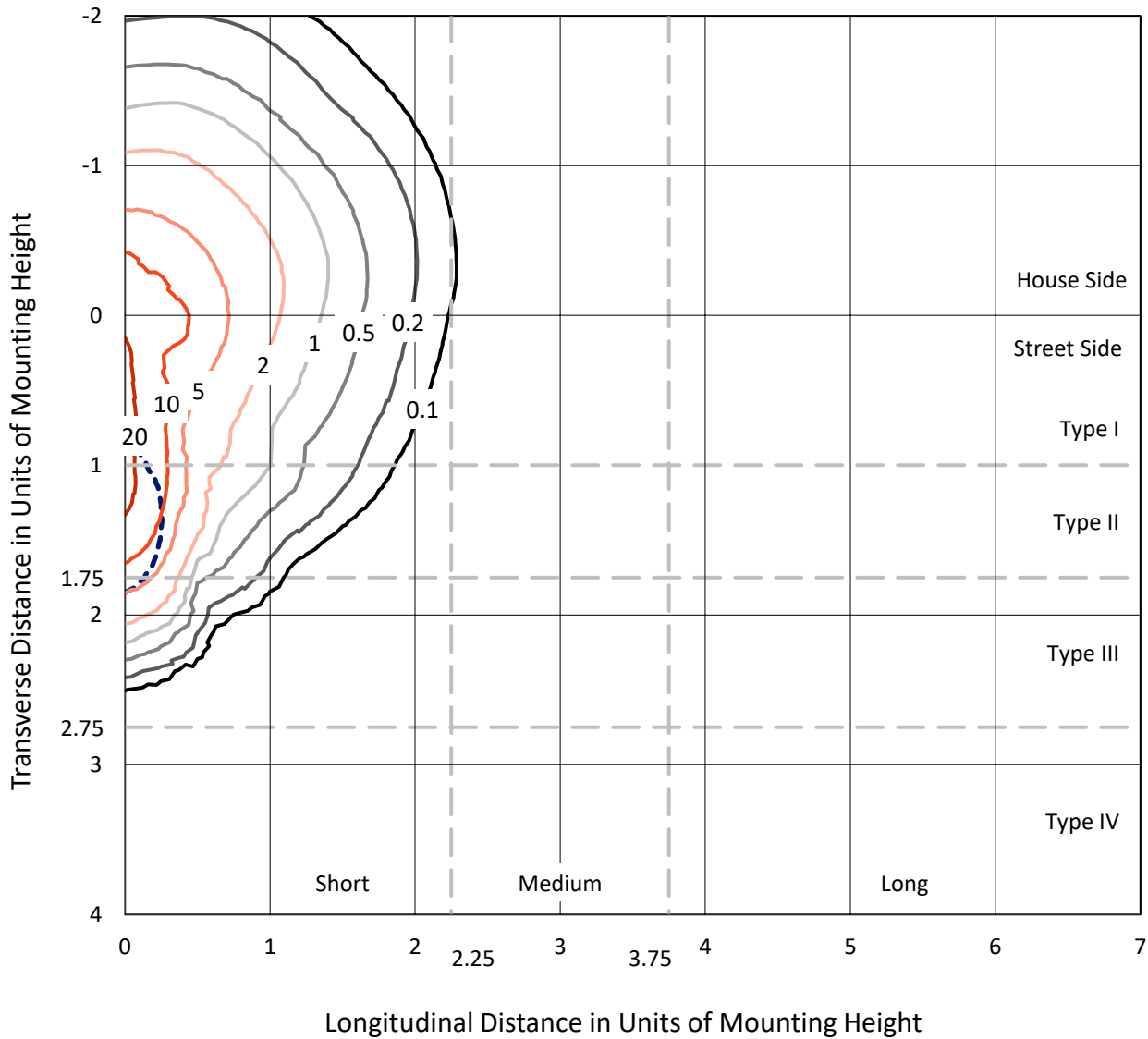
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

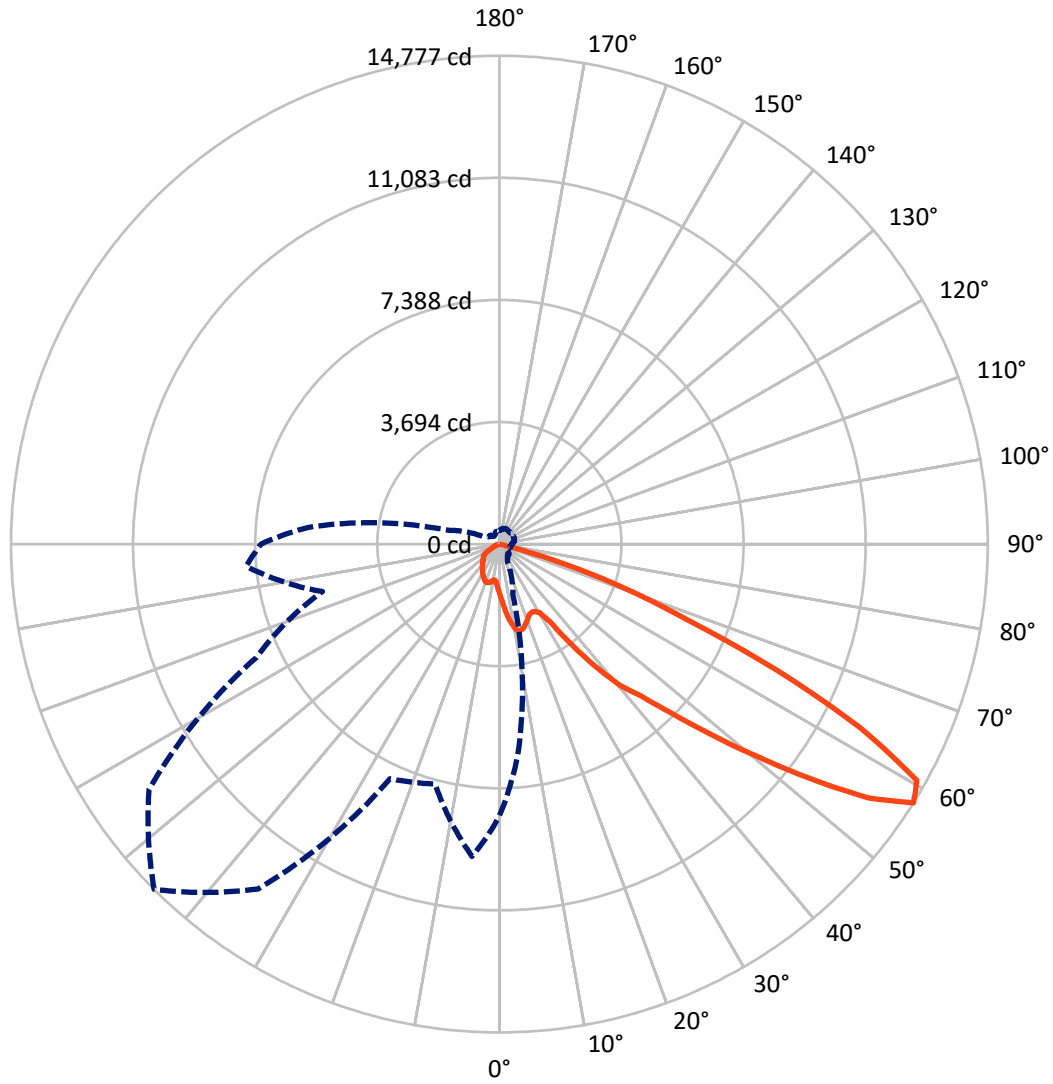
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 23.7 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	1917.0	0.0	1917.0
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	6981.2	0.0	6981.2
	% Fixture	78.5	0.0	78.5
Total	Lumens	8898.2	0.0	8898.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.4	1.7
10°-20°	491.7	5.5
20°-30°	798.0	9.0
30°-40°	1224.8	13.8
40°-50°	1956.0	22.0
50°-60°	2738.8	30.8
60°-70°	1404.2	15.8
70°-80°	135.2	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°	8898.2	100.0
0°-180°	8898.2	100.0

Coefficient of Utilization



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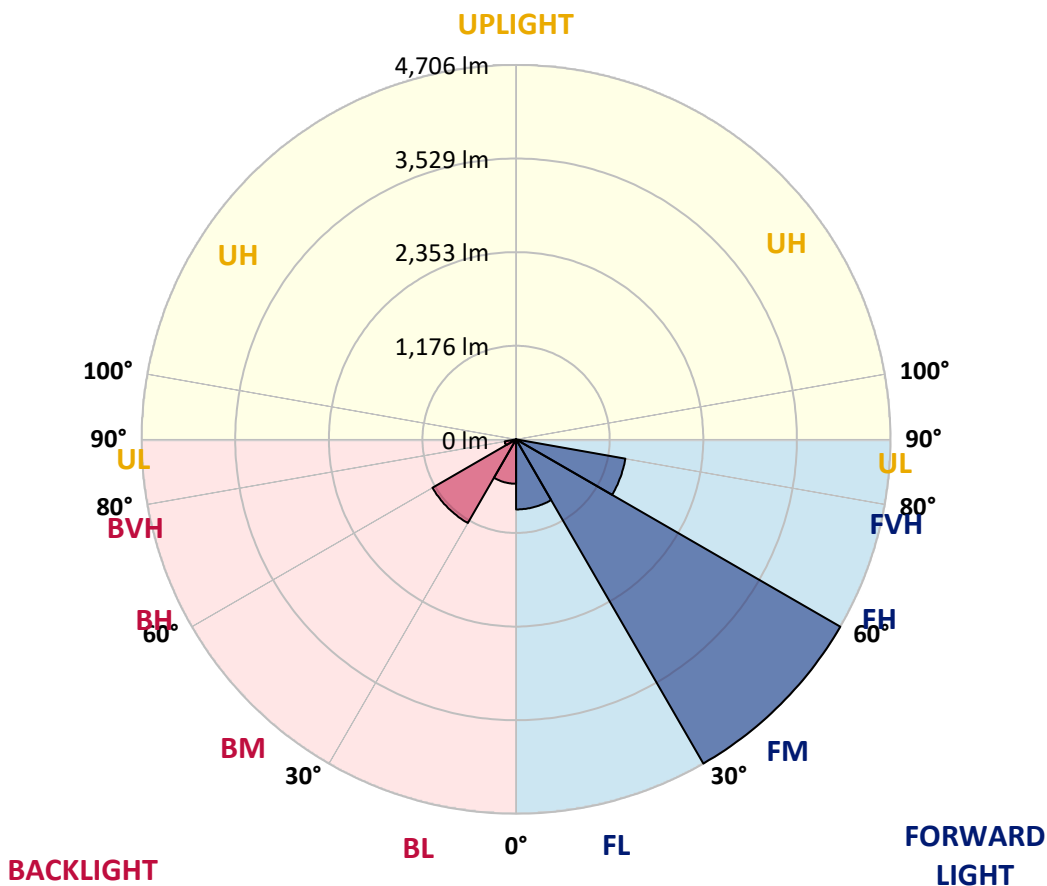
CATALOG NUMBER: GWS-SA2F-750-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	881.0	9.9			
FM (30°-60°)	4705.6	52.9			
FH (60°-80°)	1394.7	15.7			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	558.2	6.3	B2/1000		
BM (30°-60°)	1214.0	13.6	B2/2500		
BH (60°-80°)	144.8	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°	1511.9	1511.9	1511.9	1511.9	1511.9	1511.9	1511.9	1511.9	1511.9	1511.9	1511.9
2.5°	1679.7	1676.1	1664.2	1623.8	1598.8	1559.5	1531.0	1494.1	1453.6	1428.7	1403.7
5°	1858.1	1848.6	1816.5	1723.7	1652.3	1575.0	1513.1	1445.3	1372.8	1325.2	1281.2
7.5°	2029.4	2015.1	1972.3	1815.3	1707.0	1596.4	1508.4	1409.6	1307.3	1236.0	1181.2
10°	2197.1	2165.0	2097.2	1904.5	1758.2	1624.9	1521.5	1408.4	1288.3	1197.9	1137.2
12.5°	2335.1	2311.3	2218.5	1989.0	1801.0	1630.9	1503.6	1398.9	1318.0	1257.4	1201.5
15°	2454.1	2427.9	2339.9	2065.1	1837.9	1607.1	1428.7	1337.1	1350.2	1373.9	1326.4
17.5°	2563.5	2536.2	2441.0	2128.1	1852.2	1548.8	1324.0	1280.0	1352.5	1441.8	1423.9
20°	2676.5	2645.6	2529.0	2179.3	1847.4	1457.2	1218.1	1231.2	1333.5	1435.8	1445.3
22.5°	2808.6	2776.4	2640.8	2244.7	1843.8	1347.8	1126.5	1188.4	1297.8	1384.7	1401.3
25°	2983.4	2945.4	2796.7	2341.1	1853.3	1247.9	1061.1	1146.7	1237.1	1315.7	1325.2
27.5°	3214.2	3165.4	2976.3	2460.0	1873.6	1169.3	1032.5	1089.6	1159.8	1230.0	1238.3
30°	3515.2	3453.3	3182.1	2563.5	1864.0	1114.6	1013.5	1032.5	1074.2	1131.3	1132.5
32.5°	3867.3	3782.8	3412.9	2652.7	1782.0	1074.2	987.3	974.3	983.8	1027.8	1036.1
35°	4281.2	4171.8	3667.4	2737.2	1632.1	995.7	939.8	895.7	892.2	913.6	933.8
37.5°	4755.9	4625.0	3988.6	2845.4	1454.8	913.6	869.6	825.6	806.5	817.2	848.2
40°	5193.6	5048.5	4324.1	2976.3	1274.0	839.8	787.5	742.3	719.7	723.3	761.3
42.5°	5707.5	5557.6	4734.5	3147.6	1124.1	789.9	701.8	655.4	625.7	642.4	686.4
45°	6487.9	6317.8	5332.8	3296.3	1005.2	778.0	626.9	561.5	547.2	575.7	628.1
47.5°	7553.7	7345.6	6154.8	3386.7	904.1	788.7	574.6	485.3	488.9	521.0	573.4
50°	8611.3	8386.4	7105.3	3267.7	820.8	767.3	548.4	425.9	448.5	477.0	524.6
52.5°	9338.1	9045.4	7568.0	2923.9	744.7	686.4	546.0	370.0	412.8	422.3	462.7
55°	9366.6	9006.2	7331.3	2305.4	641.2	579.3	521.0	323.6	373.5	377.1	411.6
57.5°	8210.4	7884.4	6407.0	1583.3	569.8	424.7	415.2	283.1	306.9	336.6	358.1
60°	6246.4	5969.2	4791.6	725.6	433.0	270.0	284.3	243.9	229.6	273.6	295.0
62.5°	3825.6	3648.4	2874.0	321.2	276.0	143.9	172.5	193.9	172.5	189.1	207.0
65°	1519.1	1440.6	1090.8	136.8	113.0	72.6	78.5	113.0	121.3	133.2	149.9
67.5°	264.1	249.8	183.2	60.7	46.4	44.0	38.1	52.3	73.8	82.1	95.2
70°	34.5	33.3	29.7	25.0	23.8	21.4	16.7	33.3	50.0	52.3	60.7
72.5°	8.3	7.1	7.1	5.9	7.1	2.4	2.4	17.8	35.7	36.9	42.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	22.6	25.0	29.7
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°	1511.9	1511.9	1511.9	1511.9	1511.9	1511.9	1511.9	1511.9	1511.9	1511.9	1511.9
2.5°	1383.5	1359.7	1351.3	1339.4	1324.0	1328.7	1307.3	1300.2	1310.9	1325.2	1321.6
5°	1257.4	1231.2	1213.4	1186.0	1181.2	1170.5	1163.4	1153.9	1165.8	1182.4	1186.0
7.5°	1157.4	1134.8	1117.0	1108.7	1102.7	1098.0	1083.7	1076.6	1076.6	1083.7	1089.6
10°	1114.6	1098.0	1094.4	1096.8	1106.3	1105.1	1092.0	1082.5	1070.6	1064.7	1071.8
12.5°	1174.1	1146.7	1142.0	1143.2	1155.1	1153.9	1139.6	1127.7	1125.3	1127.7	1150.3
15°	1275.2	1233.6	1202.6	1196.7	1202.6	1200.3	1189.6	1182.4	1186.0	1220.5	1258.6
17.5°	1365.6	1301.4	1245.5	1224.1	1222.9	1219.3	1208.6	1206.2	1224.1	1288.3	1344.2
20°	1391.8	1328.7	1249.0	1221.7	1215.7	1212.2	1200.3	1203.8	1226.4	1303.8	1351.3
22.5°	1357.3	1296.6	1213.4	1186.0	1181.2	1180.0	1168.2	1172.9	1191.9	1259.7	1299.0
25°	1291.9	1240.7	1153.9	1130.1	1130.1	1127.7	1117.0	1119.4	1131.3	1190.8	1228.8
27.5°	1212.2	1163.4	1090.8	1067.0	1070.6	1074.2	1061.1	1057.5	1067.0	1122.9	1145.6
30°	1120.6	1086.1	1029.0	1007.6	1006.4	1020.6	1002.8	998.0	1011.1	1055.1	1059.9
32.5°	1031.4	1014.7	974.3	957.6	958.8	961.2	951.7	951.7	963.5	987.3	986.1
35°	944.5	933.8	926.7	914.8	913.6	908.8	908.8	911.2	924.3	932.6	917.2
37.5°	861.2	872.0	880.3	868.4	858.9	858.9	858.9	869.6	881.5	877.9	851.7
40°	787.5	810.1	836.3	823.2	800.6	799.4	804.1	822.0	839.8	818.4	794.6
42.5°	724.4	753.0	789.9	782.7	757.8	754.2	757.8	780.4	794.6	767.3	741.1
45°	662.6	698.3	742.3	742.3	714.9	711.4	712.5	742.3	750.6	718.5	685.2
47.5°	610.2	649.5	695.9	695.9	673.3	666.2	672.1	703.0	709.0	663.8	632.8
50°	560.3	603.1	654.3	650.7	635.2	629.3	640.0	673.3	666.2	616.2	584.1
52.5°	497.2	542.4	612.6	616.2	607.9	609.1	622.1	643.6	623.3	562.7	535.3
55°	440.1	486.5	556.7	575.7	575.7	574.6	580.5	597.2	580.5	507.9	474.6
57.5°	378.3	417.5	475.8	480.6	484.2	471.1	479.4	502.0	493.7	431.8	412.8
60°	310.5	343.8	377.1	380.7	365.2	337.8	353.3	379.5	385.4	339.0	317.6
62.5°	220.1	252.2	291.4	291.4	276.0	248.6	268.8	291.4	283.1	235.5	222.4
65°	164.2	193.9	223.6	236.7	223.6	204.6	220.1	236.7	223.6	184.4	165.3
67.5°	105.9	126.1	143.9	154.6	157.0	154.6	161.8	157.0	141.6	115.4	104.7
70°	64.2	74.9	84.5	94.0	101.1	104.7	108.3	97.5	82.1	67.8	64.2
72.5°	46.4	55.9	64.2	71.4	79.7	82.1	82.1	74.9	60.7	47.6	44.0
75°	32.1	40.4	47.6	52.3	59.5	61.9	61.9	55.9	45.2	34.5	30.9
77.5°	1.2	8.3	8.3	7.1	9.5	11.9	11.9	14.3	13.1	9.5	8.3
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°	1511.9	1511.9	1511.9	1511.9	1511.9	1511.9	1511.9	1511.9	1511.9	1511.9	1511.9
2.5°	1328.7	1371.6	1383.5	1427.5	1466.7	1506.0	1553.6	1582.1	1624.9	1654.7	1671.3
5°	1197.9	1233.6	1276.4	1341.8	1409.6	1484.6	1575.0	1653.5	1752.2	1824.8	1848.6
7.5°	1102.7	1149.1	1199.1	1281.2	1373.9	1473.9	1601.2	1729.6	1880.7	1979.4	2042.5
10°	1084.9	1132.5	1199.1	1280.0	1377.5	1491.7	1647.5	1814.1	2003.2	2123.4	2194.7
12.5°	1170.5	1221.7	1250.2	1287.1	1360.9	1488.1	1688.0	1899.7	2122.2	2253.0	2329.2
15°	1296.6	1341.8	1295.4	1249.0	1296.6	1450.1	1710.6	1971.1	2226.9	2377.9	2456.4
17.5°	1383.5	1387.0	1285.9	1187.2	1200.3	1381.1	1718.9	2042.5	2338.7	2496.9	2579.0
20°	1375.1	1346.6	1244.3	1134.8	1094.4	1291.9	1709.4	2105.5	2451.7	2617.0	2697.9
22.5°	1310.9	1277.6	1190.8	1083.7	1005.2	1186.0	1692.7	2162.6	2555.2	2743.1	2819.3
25°	1233.6	1197.9	1126.5	1032.5	948.1	1083.7	1679.7	2241.1	2686.0	2907.3	2966.8
27.5°	1143.2	1112.2	1051.6	983.8	924.3	1006.4	1676.1	2344.6	2844.2	3107.1	3148.8
30°	1055.1	1026.6	979.0	939.8	914.8	961.2	1664.2	2455.3	3033.4	3336.7	3381.9
32.5°	970.7	942.1	912.4	906.4	907.6	944.5	1623.8	2564.7	3258.2	3669.8	3703.1
35°	898.1	864.8	852.9	867.2	893.4	916.0	1509.6	2655.1	3499.7	4032.6	4060.0
37.5°	829.1	795.8	794.6	829.1	857.7	872.0	1375.1	2744.3	3825.6	4401.4	4435.9
40°	766.1	732.8	744.7	786.3	808.9	816.0	1212.2	2879.9	4170.6	4790.4	4771.3
42.5°	712.5	678.1	685.2	738.7	758.9	778.0	1062.3	2992.9	4502.5	5159.1	5153.2
45°	660.2	634.0	629.3	687.6	705.4	781.5	952.8	3079.8	4929.6	5629.0	5638.5
47.5°	609.1	588.8	590.0	615.0	659.0	799.4	860.1	3136.9	5549.3	6373.7	6208.3
50°	562.7	547.2	560.3	531.7	629.3	776.8	780.4	3125.0	6241.6	7087.4	6755.5
52.5°	511.5	507.9	513.9	444.9	581.7	685.2	705.4	2966.8	6566.4	7575.1	7386.0
55°	459.2	458.0	410.4	355.7	486.5	547.2	604.3	2475.5	6555.7	7834.5	8064.1
57.5°	397.3	387.8	311.7	290.3	378.3	380.7	550.8	1621.4	5809.8	7213.5	7689.3
60°	301.0	293.8	228.4	235.5	264.1	243.9	438.9	807.7	4341.9	5619.5	6156.0
62.5°	208.2	198.7	170.1	182.0	170.1	139.2	268.8	399.7	2630.1	3548.5	4035.0
65°	152.3	141.6	116.6	99.9	79.7	79.7	102.3	153.5	1018.3	1508.4	1818.8
67.5°	94.0	89.2	69.0	50.0	48.8	52.3	53.5	76.1	164.2	261.7	320.0
70°	60.7	55.9	46.4	32.1	29.7	30.9	32.1	35.7	41.6	45.2	54.7
72.5°	41.6	39.3	33.3	17.8	14.3	15.5	16.7	16.7	20.2	19.0	22.6
75°	29.7	27.4	23.8	8.3	4.8	5.9	7.1	5.9	7.1	4.8	5.9
77.5°	8.3	8.3	5.9	1.2	0.0	1.2	2.4	2.4	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-750-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1511.9	1511.9	1511.9	1511.9	1511.9	1511.9	1511.9	1511.9	1511.9	1511.9
2.5°	1714.2	1741.5	1752.2	1736.8	1749.8	1728.4	1720.1	1688.0	1685.6	1679.7
5°	1944.9	2006.8	2043.7	2066.3	2040.1	2011.6	1968.7	1895.0	1872.4	1858.1
7.5°	2172.1	2268.5	2331.5	2361.3	2354.1	2295.9	2218.5	2094.8	2050.8	2029.4
10°	2369.6	2487.4	2563.5	2600.4	2584.9	2533.8	2423.1	2268.5	2210.2	2197.1
12.5°	2507.6	2615.9	2668.2	2700.3	2701.5	2681.3	2576.6	2420.8	2351.8	2335.1
15°	2594.4	2640.8	2642.0	2661.1	2694.4	2739.6	2690.8	2552.8	2479.1	2454.1
17.5°	2649.2	2598.0	2545.7	2550.4	2605.1	2725.3	2775.3	2669.4	2590.9	2563.5
20°	2688.4	2526.6	2429.1	2430.3	2486.2	2668.2	2833.5	2782.4	2701.5	2676.5
22.5°	2713.4	2463.6	2324.4	2320.8	2380.3	2600.4	2887.1	2916.8	2837.1	2808.6
25°	2764.5	2433.8	2261.4	2281.6	2333.9	2579.0	2959.6	3095.2	3021.5	2983.4
27.5°	2856.1	2463.6	2255.4	2301.8	2361.3	2642.0	3085.7	3333.2	3257.0	3214.2
30°	3014.4	2575.4	2347.0	2411.2	2482.6	2807.4	3297.5	3665.0	3555.6	3515.2
32.5°	3268.9	2807.4	2630.1	2768.1	2837.1	3078.6	3615.1	4037.4	3948.2	3867.3
35°	3619.8	3336.7	3316.5	3637.7	3621.0	3592.5	4005.3	4494.2	4359.8	4281.2
37.5°	4102.8	4188.5	4338.3	4657.1	4646.4	4428.7	4518.0	4926.0	4857.0	4755.9
40°	4705.9	4887.9	5142.5	5599.3	5456.5	5182.9	5147.2	5368.5	5312.6	5193.6
42.5°	5061.6	5375.6	5861.0	6271.4	6157.2	5679.0	5638.5	5959.7	5837.2	5707.5
45°	5226.9	5773.0	6724.6	7280.1	6934.0	6008.5	5993.0	6730.6	6661.6	6487.9
47.5°	5303.1	6173.8	7735.7	8576.8	7929.6	6297.6	6241.6	7848.7	7758.3	7553.7
50°	5387.5	6727.0	8953.8	10079.2	9132.3	6624.7	6665.1	8890.8	8852.7	8611.3
52.5°	5573.1	7312.3	10453.9	11796.9	10590.7	7137.4	7392.0	9873.4	9616.4	9338.1
55°	5851.5	7949.9	12014.6	13551.5	12078.8	7826.1	8178.3	10395.6	9674.7	9366.6
57.5°	5543.4	8109.3	12938.9	14776.8	12739.0	7828.5	7513.3	9490.3	8509.0	8210.4
60°	4399.0	7544.2	12583.2	14511.5	12176.4	6951.8	5752.7	7409.8	6446.2	6246.4
62.5°	2973.9	6327.3	11077.2	12272.7	10421.8	5468.4	3738.8	4818.9	3991.0	3825.6
65°	1629.7	4720.2	8950.3	9284.5	8156.8	3819.7	1923.5	2091.3	1592.8	1519.1
67.5°	449.7	3285.6	6585.4	6159.6	5723.0	2487.4	497.2	373.5	266.5	264.1
70°	113.0	2173.3	3945.8	4067.1	3509.2	1592.8	95.2	45.2	35.7	34.5
72.5°	47.6	935.0	1872.4	2151.9	1796.2	737.5	34.5	13.1	10.7	8.3
75°	5.9	74.9	159.4	241.5	165.3	79.7	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)