

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: P633863

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633863
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-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8853 lumens
Efficiency: N/A
Efficacy: 71.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

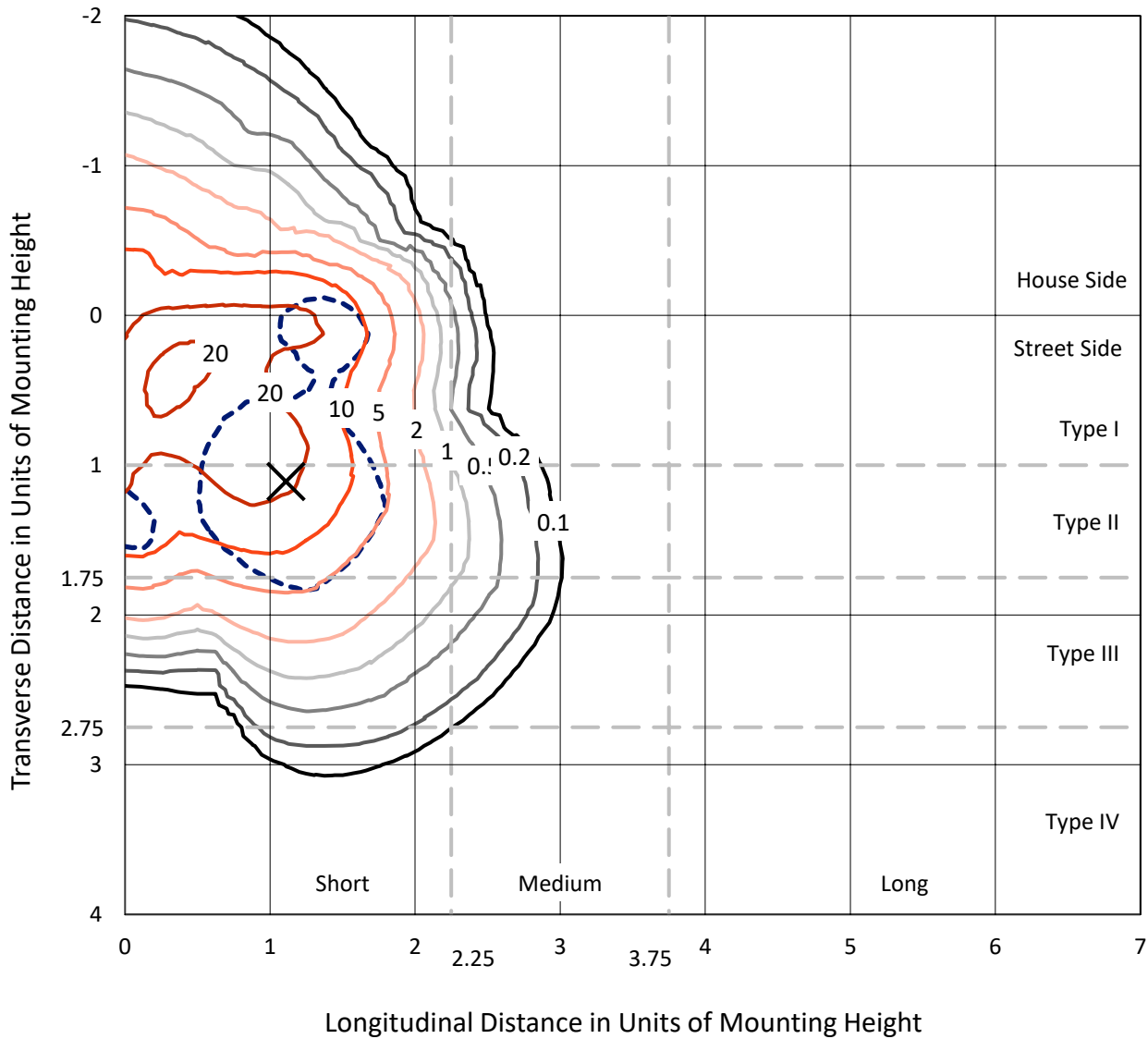
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

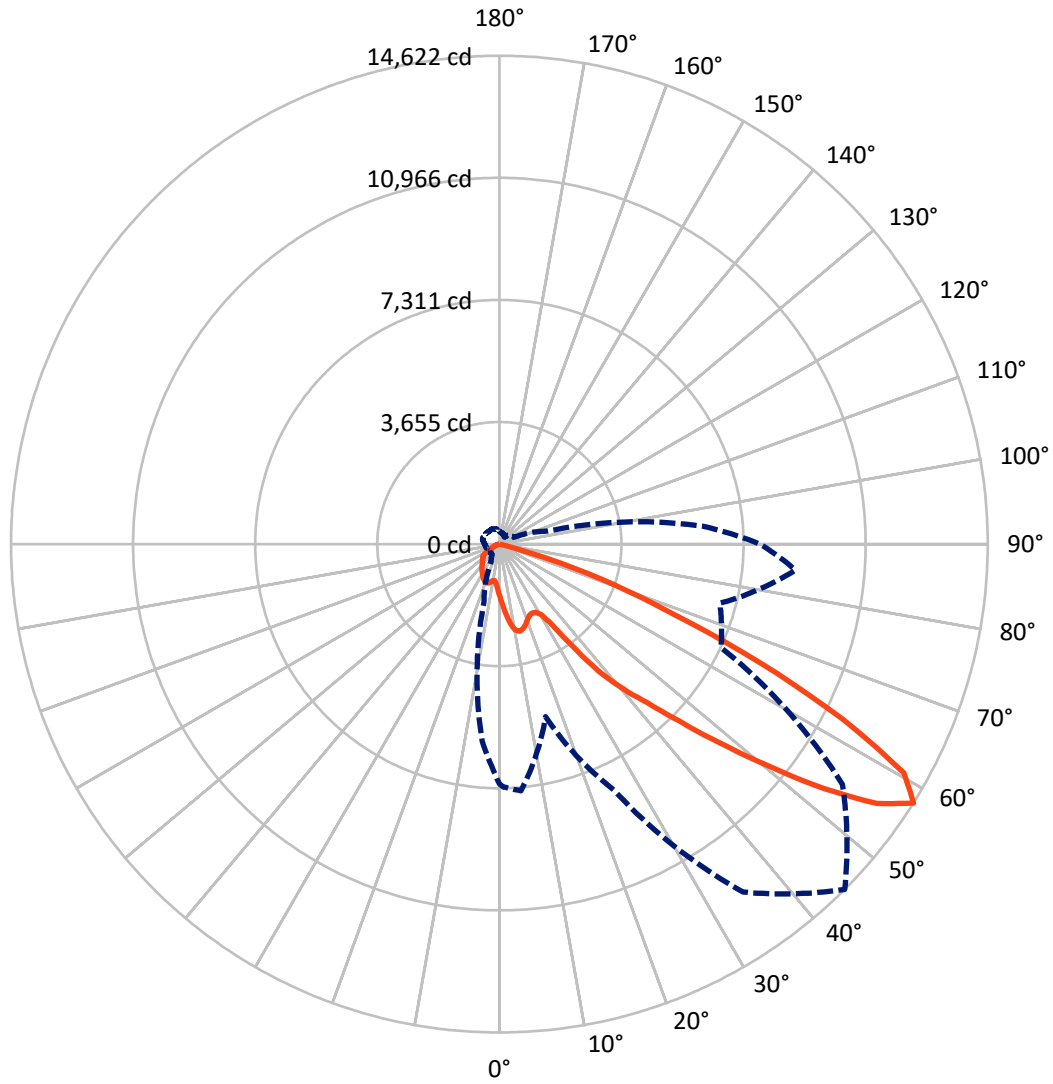
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 27.7 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
House Side	Lumens	1982.4	0.0	1982.4
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	6870.6	0.0	6870.6
	% Fixture	77.6	0.0	77.6
Total	Lumens	8853.0	0.0	8853.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.1	1.7
10°-20°	495.2	5.6
20°-30°	804.4	9.1
30°-40°	1242.9	14.0
40°-50°	1993.0	22.5
50°-60°	2723.9	30.8
60°-70°	1319.3	14.9
70°-80°	120.8	1.4
80°-90°	0.4	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°	8853.0	100.0
0°-180°	8853.0	100.0

Coefficient of Utilization



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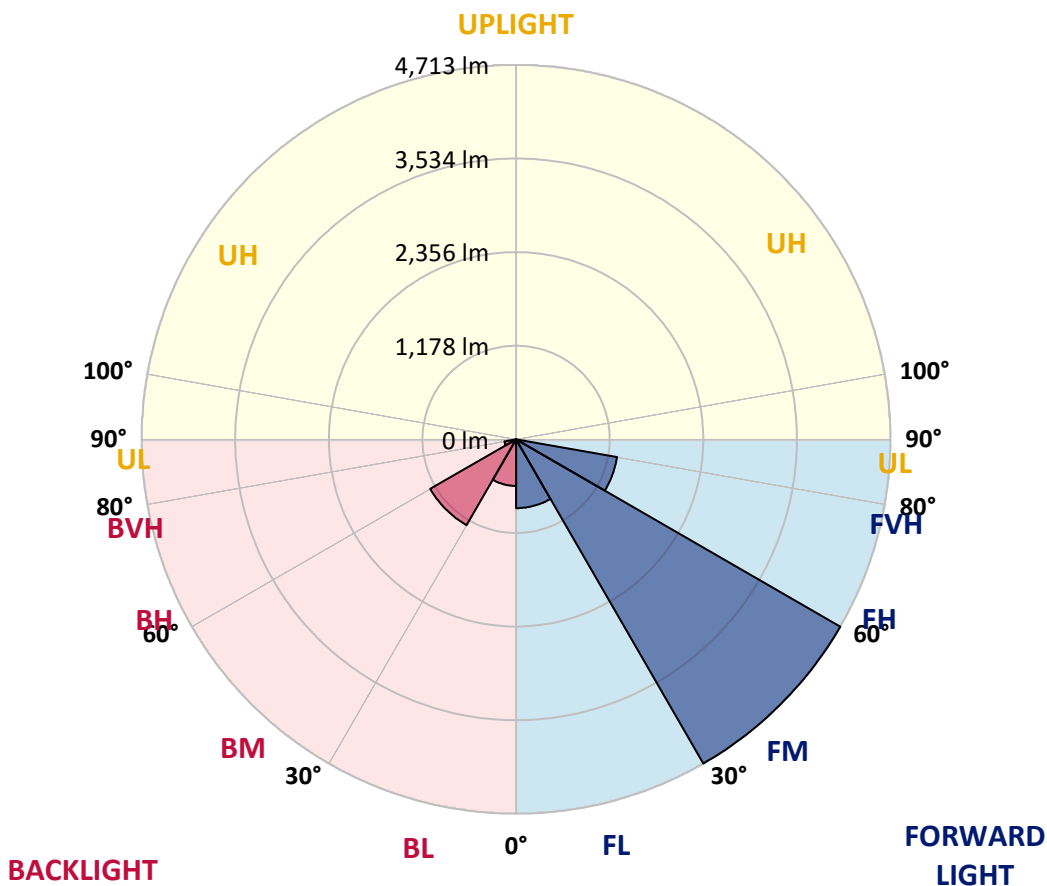
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	866.1	9.8			
FM (30°-60°)	4712.7	53.2			
FH (60°-80°)	1291.5	14.6			G1/1800
FVH (80°-90°)	0.4	0.0			G0/10
BL (0°-30°)	586.6	6.6	B2/1000		
BM (30°-60°)	1247.3	14.1	B2/2500		
BH (60°-80°)	148.6	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°	1556.0	1556.0	1556.0	1556.0	1556.0	1556.0	1556.0	1556.0	1556.0	1556.0	1556.0
2.5°	1685.7	1696.4	1714.2	1752.3	1784.4	1805.8	1815.3	1813.0	1799.9	1790.4	1771.3
5°	1866.5	1866.5	1901.0	1987.8	2054.5	2096.1	2117.5	2104.4	2078.2	2036.6	1972.4
7.5°	2024.7	2030.7	2089.0	2212.7	2313.8	2373.3	2407.8	2400.6	2354.2	2274.5	2146.1
10°	2148.4	2155.6	2232.9	2384.0	2502.9	2563.6	2614.8	2619.5	2568.4	2462.5	2315.0
12.5°	2268.6	2275.7	2356.6	2501.7	2606.4	2631.4	2676.6	2694.5	2681.4	2606.4	2453.0
15°	2398.3	2414.9	2483.9	2592.2	2636.2	2606.4	2636.2	2668.3	2712.3	2705.2	2567.2
17.5°	2525.5	2537.4	2607.6	2645.7	2596.9	2519.6	2533.9	2571.9	2671.9	2769.4	2680.2
20°	2643.3	2660.0	2718.3	2668.3	2520.8	2400.6	2401.8	2451.8	2604.1	2808.7	2795.6
22.5°	2767.0	2792.0	2833.7	2693.3	2450.6	2306.7	2312.6	2357.8	2550.5	2845.5	2926.4
25°	2928.8	2952.6	2980.0	2755.1	2428.0	2260.3	2282.9	2324.5	2550.5	2908.6	3088.2
27.5°	3147.7	3164.4	3165.6	2870.5	2467.3	2267.4	2315.0	2362.6	2626.7	3034.7	3304.7
30°	3422.5	3448.7	3414.2	3050.2	2589.8	2362.6	2432.8	2492.2	2790.8	3247.6	3623.6
32.5°	3756.8	3793.7	3747.3	3316.6	2845.5	2690.9	2818.2	2852.7	3052.5	3555.7	3985.2
35°	4149.4	4180.3	4130.3	3685.4	3442.7	3471.3	3702.1	3658.1	3578.3	3935.2	4407.5
37.5°	4580.0	4608.5	4512.2	4244.5	4325.4	4449.1	4817.9	4666.8	4409.9	4424.2	4865.5
40°	4974.9	5005.9	4854.8	4852.4	5019.0	5245.0	5689.9	5481.7	5132.0	5064.2	5295.0
42.5°	5384.2	5405.6	5268.8	5176.0	5554.3	6019.4	6490.5	6209.8	5610.2	5536.4	5832.7
45°	5968.3	6013.5	5769.6	5335.4	6036.1	6910.4	7567.1	7018.7	5936.2	5876.7	6655.9
47.5°	6827.2	6860.5	6363.2	5435.3	6484.6	8020.4	8912.6	8067.9	6222.8	6087.2	7781.2
50°	7537.4	7560.0	6909.3	5544.8	6961.6	9217.1	10446.0	9312.3	6545.2	6435.8	8831.7
52.5°	8060.8	8146.4	7626.6	5769.6	7588.5	10624.4	12143.5	10786.2	7048.4	7109.1	9702.5
55°	8169.1	8285.6	8116.7	5907.6	8140.5	12057.9	13711.4	12105.5	7550.5	7619.5	9995.1
57.5°	7179.3	7272.1	7412.5	5350.9	8127.4	12714.6	14621.5	12543.2	7322.0	6833.1	8899.5
60°	5378.2	5442.5	5697.0	4089.9	7474.3	12134.0	13912.5	11798.6	6402.5	5214.1	6780.8
62.5°	3189.3	3217.9	3540.3	2649.3	6203.8	10449.5	11538.0	10180.7	5059.4	3507.0	4152.9
65°	1224.1	1212.2	1458.5	1307.4	4562.2	8323.7	8581.8	7761.0	3471.3	1607.2	1583.4
67.5°	189.1	180.8	243.9	386.6	3290.5	5768.4	5662.5	5593.5	2174.6	374.7	327.1
70°	42.8	42.8	52.3	114.2	2010.4	3389.2	3627.1	3458.2	1391.8	79.7	42.8
72.5°	20.2	20.2	25.0	48.8	728.0	1396.6	1627.4	1602.4	452.1	26.2	15.5
75°	7.1	8.3	8.3	10.7	44.0	72.6	166.5	119.0	28.6	0.0	0.0
77.5°	2.4	2.4	2.4	2.4	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°	1556.0	1556.0	1556.0	1556.0	1556.0	1556.0	1556.0	1556.0	1556.0	1556.0	1556.0
2.5°	1729.7	1721.4	1690.4	1648.8	1608.4	1572.7	1535.8	1491.8	1459.7	1422.8	1410.9
5°	1922.4	1870.1	1785.6	1697.6	1616.7	1547.7	1481.1	1409.7	1357.3	1305.0	1287.2
7.5°	2085.4	2008.1	1871.3	1739.2	1628.6	1531.0	1434.7	1337.1	1261.0	1199.1	1180.1
10°	2231.7	2142.5	1959.3	1796.3	1657.1	1544.1	1427.5	1305.0	1206.3	1132.5	1114.7
12.5°	2357.8	2254.3	2034.2	1839.1	1669.0	1539.4	1426.3	1328.8	1239.6	1155.1	1132.5
15°	2463.7	2349.5	2097.3	1867.7	1651.2	1479.9	1381.1	1365.7	1358.5	1265.7	1221.7
17.5°	2567.2	2438.7	2148.4	1880.8	1601.2	1375.2	1303.8	1374.0	1448.9	1388.3	1332.4
20°	2675.4	2529.1	2200.8	1883.2	1517.9	1257.4	1245.5	1356.2	1451.3	1432.3	1379.9
22.5°	2802.7	2642.1	2266.2	1882.0	1413.3	1157.5	1202.7	1321.7	1399.0	1397.8	1356.2
25°	2987.1	2784.9	2354.2	1889.1	1299.1	1080.2	1155.1	1263.4	1326.4	1324.0	1289.5
27.5°	3184.6	2955.0	2468.4	1906.9	1201.5	1035.0	1099.2	1183.7	1238.4	1236.0	1206.3
30°	3461.8	3151.3	2577.9	1908.1	1131.3	1011.2	1037.3	1095.6	1148.0	1142.0	1119.4
32.5°	3798.4	3372.5	2669.5	1840.3	1087.3	988.6	973.1	1002.8	1043.3	1035.0	1029.0
35°	4205.3	3635.4	2748.0	1691.6	1019.5	943.4	901.7	907.7	936.2	941.0	938.6
37.5°	4669.2	3948.3	2845.5	1495.3	927.9	877.9	822.0	817.3	833.9	849.4	861.3
40°	5127.2	4300.4	2977.6	1296.7	844.6	794.7	741.1	729.2	736.4	763.7	788.7
42.5°	5642.3	4708.5	3120.3	1126.6	787.5	703.1	651.9	629.3	649.5	693.5	723.3
45°	6384.6	5280.7	3259.5	990.9	763.7	622.2	553.2	550.8	573.4	630.5	663.8
47.5°	7426.7	6020.6	3351.1	885.1	762.5	559.1	477.0	491.3	517.5	573.4	611.5
50°	8442.7	6947.3	3250.0	804.2	737.6	517.5	419.9	448.5	474.7	523.4	562.7
52.5°	9055.3	7445.8	2856.3	728.0	660.2	498.4	364.0	414.0	418.7	462.8	504.4
55°	8991.1	7123.4	2187.7	610.3	546.0	471.1	305.7	373.5	375.9	409.2	444.9
57.5°	7803.8	6115.8	1502.5	494.9	410.4	389.0	252.2	315.2	337.8	358.1	384.2
60°	5816.0	4462.2	669.8	402.1	260.5	262.9	215.3	237.9	272.4	296.2	318.8
62.5°	3427.3	2567.2	272.4	241.5	143.9	165.4	173.7	173.7	195.1	212.9	227.2
65°	1295.5	898.2	110.6	121.3	74.9	77.3	102.3	126.1	142.8	158.2	177.3
67.5°	227.2	157.0	57.1	45.2	44.0	39.3	52.3	82.1	91.6	103.5	111.8
70°	38.1	32.1	23.8	22.6	20.2	21.4	34.5	58.3	64.2	67.8	71.4
72.5°	10.7	9.5	7.1	5.9	4.8	5.9	21.4	45.2	47.6	50.0	53.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	8.3	32.1	34.5	35.7	39.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	9.5	11.9	9.5
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°	1556.0	1556.0	1556.0	1556.0	1556.0	1556.0	1556.0	1556.0	1556.0	1556.0	1556.0
2.5°	1403.7	1379.9	1366.9	1359.7	1359.7	1350.2	1339.5	1335.9	1351.4	1351.4	1377.6
5°	1264.6	1245.5	1224.1	1211.0	1190.8	1194.4	1182.5	1181.3	1196.7	1203.9	1231.2
7.5°	1168.2	1144.4	1131.3	1123.0	1112.3	1107.5	1096.8	1093.3	1101.6	1113.5	1139.6
10°	1104.0	1100.4	1099.2	1105.1	1105.1	1099.2	1089.7	1083.7	1086.1	1108.7	1138.5
12.5°	1120.6	1127.8	1130.1	1139.6	1144.4	1139.6	1132.5	1134.9	1150.4	1192.0	1236.0
15°	1193.2	1187.2	1184.9	1189.6	1193.2	1188.4	1186.0	1203.9	1257.4	1316.9	1366.9
17.5°	1270.5	1232.4	1215.8	1215.8	1218.2	1215.8	1218.2	1252.7	1339.5	1399.0	1435.9
20°	1309.8	1239.6	1213.4	1207.5	1212.2	1213.4	1221.7	1261.0	1356.2	1397.8	1406.1
22.5°	1297.9	1209.8	1180.1	1175.3	1180.1	1184.9	1193.2	1226.5	1315.7	1337.1	1333.6
25°	1238.4	1151.5	1127.8	1127.8	1138.5	1137.3	1140.8	1164.6	1238.4	1251.5	1245.5
27.5°	1163.4	1081.4	1061.1	1073.0	1082.5	1080.2	1081.4	1101.6	1156.3	1159.9	1153.9
30°	1087.3	1015.9	996.9	1011.2	1024.3	1021.9	1023.1	1043.3	1077.8	1074.2	1065.9
32.5°	1010.0	957.6	943.4	951.7	971.9	969.5	974.3	995.7	1008.8	993.3	983.8
35°	938.6	911.2	900.5	905.3	920.8	924.3	932.7	946.9	946.9	927.9	911.2
37.5°	872.0	868.4	861.3	855.3	869.6	880.3	892.2	908.9	885.1	857.7	842.2
40°	810.1	825.6	816.1	800.6	808.9	824.4	848.2	861.3	832.7	805.4	779.2
42.5°	753.0	779.2	775.6	756.6	763.7	778.0	805.4	816.1	782.8	751.8	726.9
45°	698.3	735.2	737.6	713.8	720.9	735.2	767.3	770.9	728.0	694.7	676.9
47.5°	650.7	691.2	692.4	674.5	676.9	697.1	726.9	728.0	679.3	648.3	625.7
50°	605.5	651.9	655.5	640.0	642.4	666.2	691.2	686.4	634.1	601.9	581.7
52.5°	550.8	613.8	622.2	615.0	624.5	643.6	659.0	642.4	581.7	549.6	531.8
55°	491.3	573.4	591.2	586.5	597.2	612.6	616.2	605.5	529.4	497.3	480.6
57.5°	422.3	472.3	503.2	493.7	502.0	517.5	528.2	519.9	462.8	437.8	423.5
60°	349.7	383.1	390.2	374.7	367.6	395.0	419.9	409.2	360.5	345.0	328.3
62.5°	255.8	293.8	298.6	278.4	270.0	299.8	321.2	310.5	257.0	240.3	227.2
65°	204.6	240.3	249.8	230.8	226.0	248.6	261.7	235.5	197.5	179.6	165.4
67.5°	134.4	163.0	188.0	186.8	177.3	184.4	174.9	153.5	126.1	116.6	107.1
70°	83.3	99.9	115.4	121.3	120.2	117.8	104.7	89.2	80.9	77.3	72.6
72.5°	64.2	80.9	92.8	96.4	97.5	94.0	83.3	69.0	60.7	55.9	52.3
75°	47.6	60.7	70.2	74.9	77.3	74.9	64.2	54.7	46.4	42.8	39.3
77.5°	16.7	20.2	25.0	27.4	26.2	25.0	22.6	22.6	17.8	16.7	14.3
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



REPORT NUMBER: P633863

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

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1556.0	1556.0	1556.0	1556.0	1556.0	1556.0	1556.0	1556.0	1556.0	1556.0
2.5°	1407.3	1428.7	1468.0	1503.7	1541.7	1581.0	1623.8	1667.8	1688.1	1685.7
5°	1272.9	1319.3	1383.5	1453.7	1532.2	1616.7	1710.7	1807.0	1848.7	1866.5
7.5°	1188.4	1253.8	1338.3	1427.5	1531.0	1651.2	1792.7	1943.8	2004.5	2024.7
10°	1199.1	1275.3	1345.4	1432.3	1542.9	1698.8	1874.8	2054.5	2125.8	2148.4
12.5°	1286.0	1302.6	1321.7	1393.0	1532.2	1734.5	1949.8	2163.9	2246.0	2268.6
15°	1364.5	1287.2	1251.5	1316.9	1494.2	1759.4	2025.9	2281.7	2372.1	2398.3
17.5°	1368.1	1251.5	1171.8	1222.9	1432.3	1770.1	2100.9	2401.8	2500.6	2525.5
20°	1324.0	1212.2	1109.9	1111.1	1347.8	1767.8	2162.7	2510.1	2620.7	2643.3
22.5°	1259.8	1165.8	1059.9	1023.1	1257.4	1763.0	2230.5	2625.5	2745.6	2767.0
25°	1188.4	1106.3	1012.4	956.4	1167.0	1767.8	2325.7	2776.5	2908.6	2928.8
27.5°	1111.1	1040.9	975.5	930.3	1090.9	1785.6	2439.9	2969.3	3126.3	3147.7
30°	1030.2	977.9	951.7	924.3	1043.3	1790.4	2563.6	3194.1	3392.8	3422.5
32.5°	950.5	921.9	923.1	927.9	998.1	1757.1	2676.6	3443.9	3709.2	3756.8
35°	876.7	868.4	892.2	916.0	932.7	1671.4	2775.4	3738.9	4100.6	4149.4
37.5°	813.7	820.8	850.6	874.4	861.3	1550.1	2906.2	4107.7	4538.4	4580.0
40°	753.0	770.9	805.4	816.1	806.6	1408.5	3063.2	4463.4	4917.8	4974.9
42.5°	697.1	710.2	759.0	761.4	791.1	1264.6	3214.3	4846.5	5354.4	5384.2
45°	651.9	649.5	699.5	715.0	811.3	1105.1	3361.8	5356.8	5925.4	5968.3
47.5°	607.9	605.5	617.4	687.6	819.6	957.6	3508.2	6103.9	6753.4	6827.2
50°	566.3	569.8	532.9	674.5	774.4	844.6	3574.8	6795.1	7506.4	7537.4
52.5°	529.4	516.3	452.1	631.7	678.1	737.6	3385.6	7109.1	7972.8	8060.8
55°	477.0	404.5	372.3	512.7	535.3	643.6	2773.0	6927.1	8013.2	8169.1
57.5°	408.0	317.6	316.4	378.3	378.3	597.2	1776.1	5918.3	6905.7	7179.3
60°	314.1	246.2	261.7	262.9	242.7	435.4	996.9	4287.4	5105.8	5378.2
62.5°	223.6	188.0	197.5	157.0	139.2	217.7	478.2	2468.4	3151.3	3189.3
65°	149.9	127.3	103.5	86.8	85.7	92.8	197.5	892.2	1084.9	1224.1
67.5°	98.7	77.3	54.7	54.7	61.9	61.9	74.9	147.5	207.0	189.1
70°	64.2	53.5	34.5	33.3	40.4	40.4	38.1	40.4	42.8	42.8
72.5°	47.6	40.4	20.2	17.8	22.6	23.8	21.4	20.2	20.2	20.2
75°	35.7	28.6	11.9	8.3	10.7	14.3	11.9	8.3	8.3	7.1
77.5°	14.3	10.7	4.8	3.6	5.9	8.3	7.1	3.6	2.4	2.4
80°	1.2	2.4	2.4	2.4	3.6	4.8	5.9	2.4	1.2	1.2
82.5°	0.0	1.2	1.2	1.2	2.4	3.6	4.8	2.4	1.2	1.2
85°	0.0	0.0	0.0	0.0	2.4	3.6	2.4	1.2	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	1.2	3.6	2.4	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

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