

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: P638754

Luminaire Tested: GWS-SA4F-740-U-SLL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638754
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-SA4F-740-U-SLL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18244.6 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

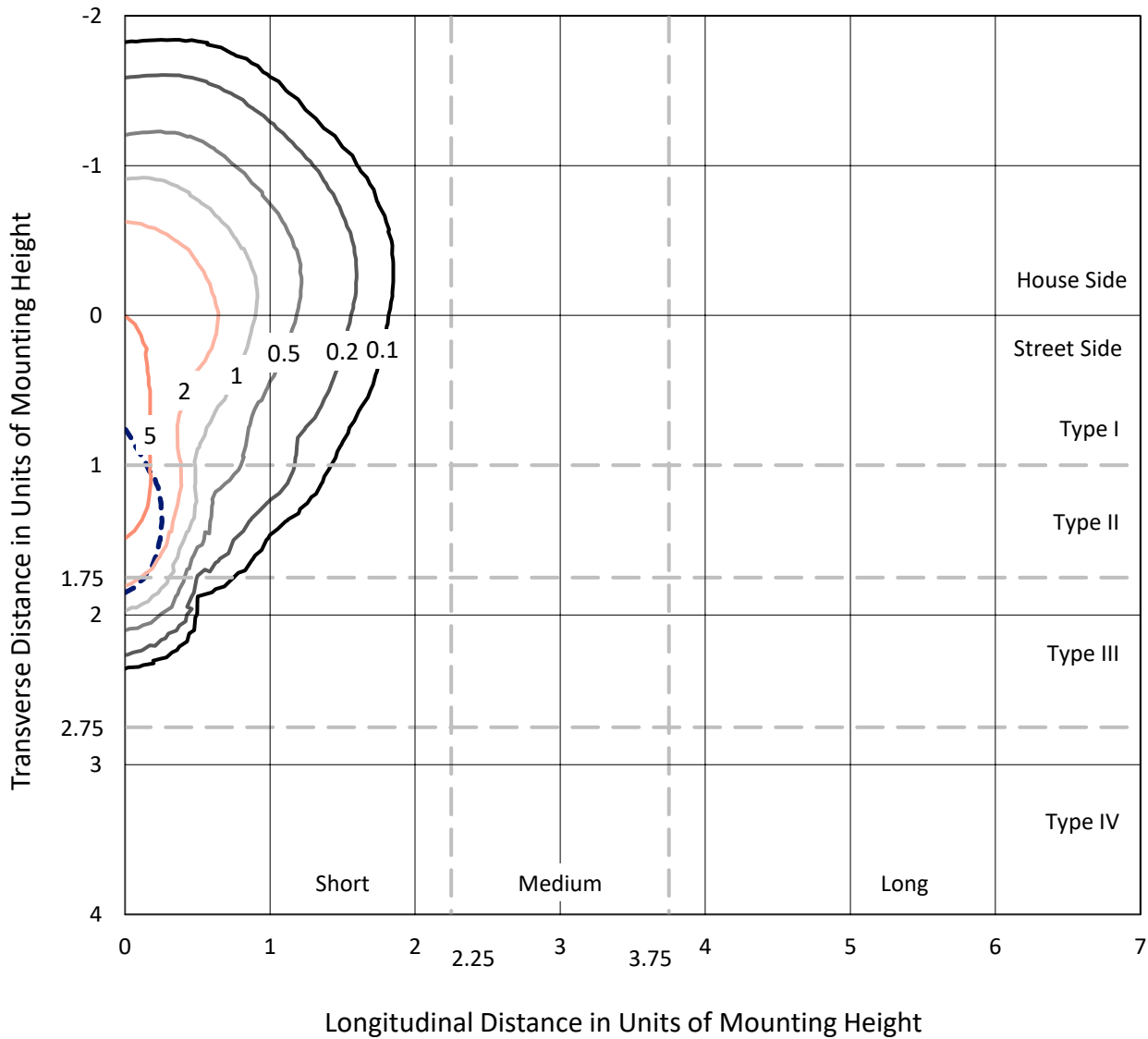
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

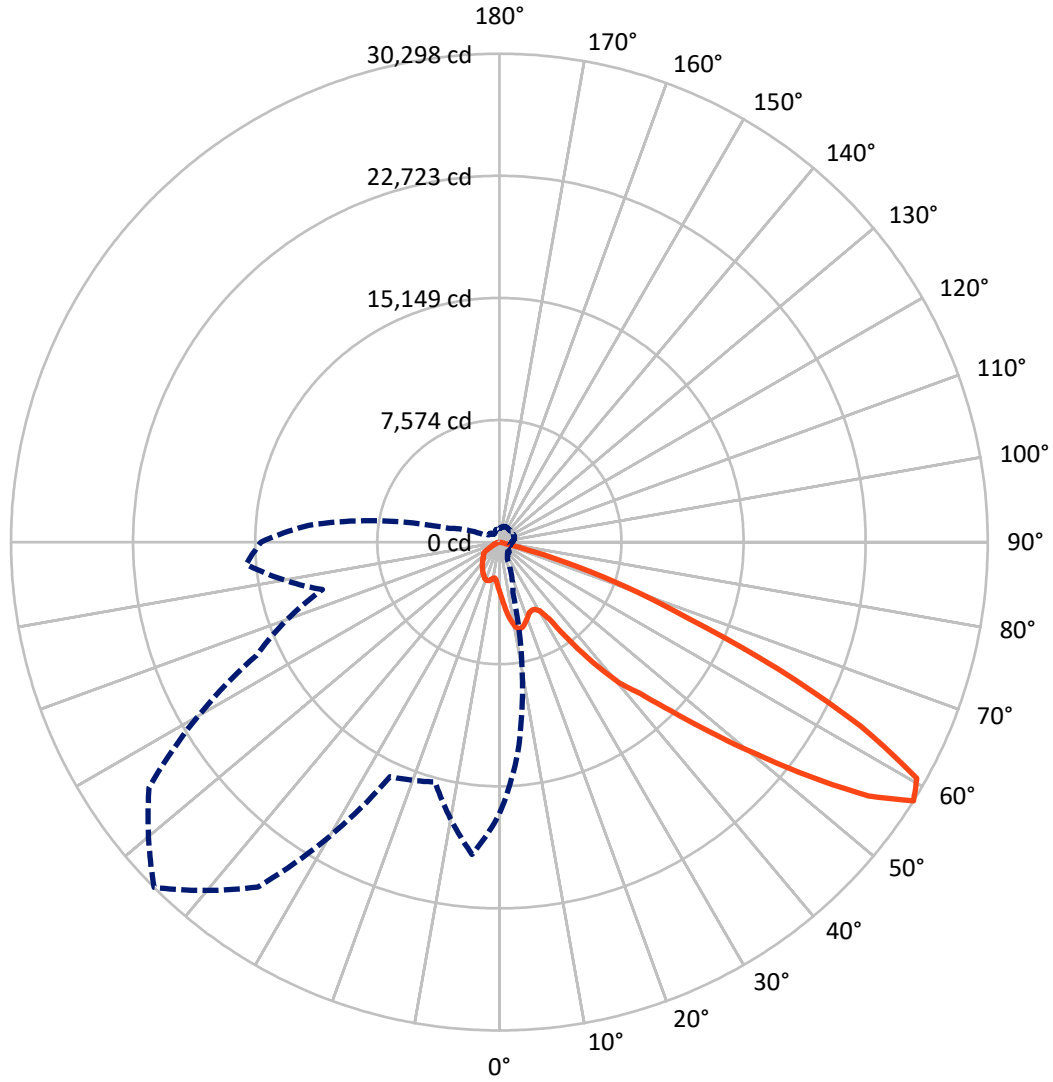
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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	3930.5	0.0	3930.5
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	14314.1	0.0	14314.1
	% Fixture	78.5	0.0	78.5
Total	Lumens	18244.6	0.0	18244.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.4	1.7
10°-20°	1008.2	5.5
20°-30°	1636.2	9.0
30°-40°	2511.2	13.8
40°-50°	4010.6	22.0
50°-60°	5615.5	30.8
60°-70°	2879.2	15.8
70°-80°	277.2	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°	18244.6	100.0
0°-180°	18244.6	100.0

Coefficient of Utilization



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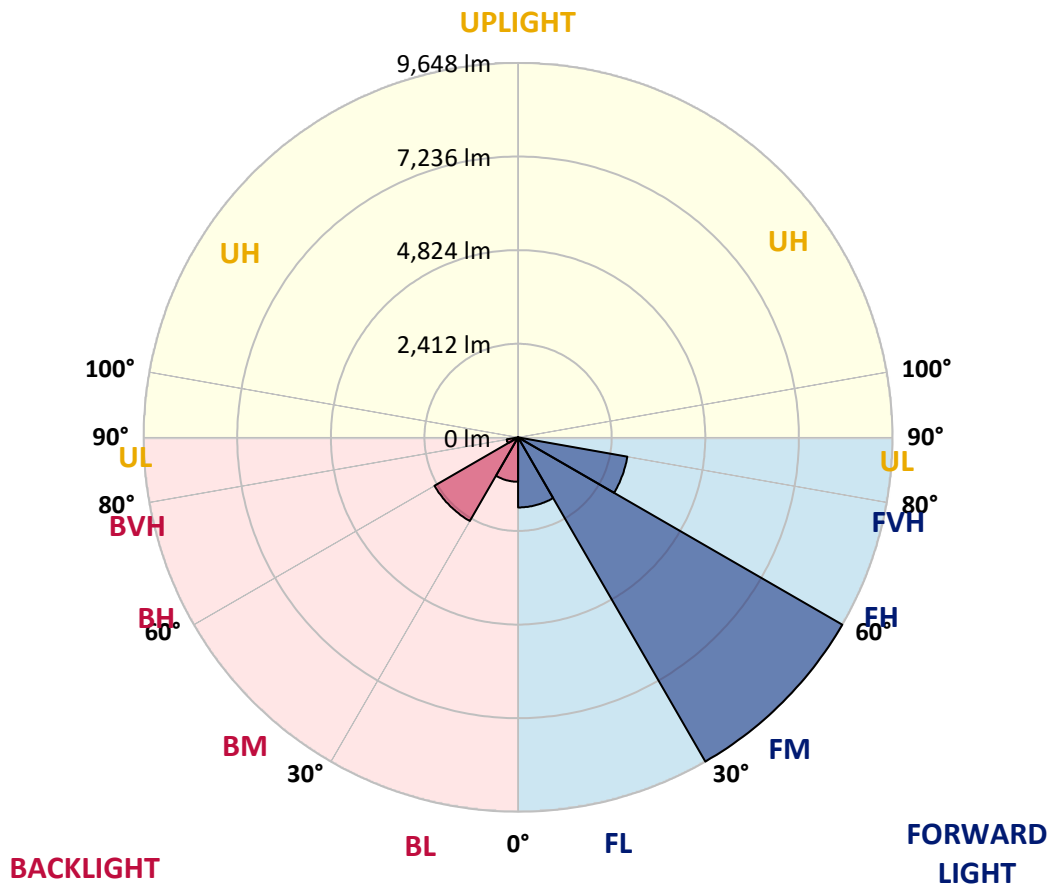
CATALOG NUMBER: GWS-SA4F-740-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1806.3	9.9			
FM (30°-60°)	9648.2	52.9			
FH (60°-80°)	2859.6	15.7			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1144.5	6.3	B3/2500		
BM (30°-60°)	2489.2	13.6	B2/2500		
BH (60°-80°)	296.8	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: B3-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3100.0	3100.0	3100.0	3100.0	3100.0	3100.0	3100.0	3100.0	3100.0	3100.0	3100.0
2.5°	3443.9	3436.6	3412.2	3329.3	3278.1	3197.6	3139.1	3063.4	2980.5	2929.3	2878.1
5°	3809.8	3790.3	3724.4	3534.2	3387.8	3229.3	3102.5	2963.4	2814.7	2717.1	2626.9
7.5°	4161.0	4131.7	4043.9	3722.0	3500.0	3273.2	3092.7	2890.3	2680.5	2534.2	2422.0
10°	4504.9	4439.1	4300.0	3904.9	3604.9	3331.7	3119.5	2887.8	2641.5	2456.1	2331.7
12.5°	4787.8	4739.1	4548.8	4078.1	3692.7	3343.9	3083.0	2868.3	2702.5	2578.1	2463.4
15°	5031.8	4978.1	4797.6	4234.2	3768.3	3295.2	2929.3	2741.5	2768.3	2817.1	2719.5
17.5°	5256.1	5200.0	5004.9	4363.5	3797.6	3175.6	2714.7	2624.4	2773.2	2956.1	2919.5
20°	5487.9	5424.4	5185.4	4468.3	3787.8	2987.8	2497.6	2524.4	2734.2	2943.9	2963.4
22.5°	5758.6	5692.7	5414.7	4602.5	3780.5	2763.4	2309.8	2436.6	2661.0	2839.0	2873.2
25°	6117.1	6039.1	5734.2	4800.0	3800.0	2558.6	2175.6	2351.2	2536.6	2697.6	2717.1
27.5°	6590.3	6490.3	6102.5	5043.9	3841.5	2397.6	2117.1	2234.2	2378.1	2522.0	2539.0
30°	7207.4	7080.6	6524.4	5256.1	3822.0	2285.4	2078.1	2117.1	2202.5	2319.5	2322.0
32.5°	7929.3	7756.2	6997.6	5439.1	3653.7	2202.5	2024.4	1997.6	2017.1	2107.3	2124.4
35°	8778.1	8553.7	7519.6	5612.2	3346.4	2041.5	1926.8	1836.6	1829.3	1873.2	1914.7
37.5°	9751.3	9483.0	8178.1	5834.2	2983.0	1873.2	1782.9	1692.7	1653.7	1675.6	1739.0
40°	10648.9	10351.3	8865.9	6102.5	2612.2	1722.0	1614.6	1522.0	1475.6	1482.9	1561.0
42.5°	11702.5	11395.2	9707.4	6453.7	2304.9	1619.5	1439.0	1343.9	1282.9	1317.1	1407.3
45°	13302.6	12953.8	10934.2	6758.6	2061.0	1595.1	1285.4	1151.2	1122.0	1180.5	1287.8
47.5°	15487.9	15061.1	12619.6	6944.0	1853.7	1617.1	1178.1	995.1	1002.4	1068.3	1175.6
50°	17656.3	17195.3	14568.4	6700.1	1682.9	1573.2	1124.4	873.2	919.5	978.1	1075.6
52.5°	19146.5	18546.5	15517.2	5995.2	1526.8	1407.3	1119.5	758.5	846.3	865.9	948.8
55°	19205.1	18466.0	15031.8	4726.9	1314.6	1187.8	1068.3	663.4	765.9	773.2	843.9
57.5°	16834.3	16166.0	13136.7	3246.4	1168.3	870.7	851.2	580.5	629.3	690.3	734.2
60°	12807.4	12239.1	9824.5	1487.8	887.8	553.7	582.9	500.0	470.7	561.0	604.9
62.5°	7844.0	7480.6	5892.7	658.5	565.9	295.1	353.7	397.6	353.7	387.8	424.4
65°	3114.7	2953.7	2236.6	280.5	231.7	148.8	161.0	231.7	248.8	273.2	307.3
67.5°	541.5	512.2	375.6	124.4	95.1	90.2	78.0	107.3	151.2	168.3	195.1
70°	70.7	68.3	61.0	51.2	48.8	43.9	34.1	68.3	102.4	107.3	124.4
72.5°	17.1	14.6	14.6	12.2	14.6	4.9	4.9	36.6	73.2	75.6	87.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.2	46.3	51.2	61.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4
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°	3100.0	3100.0	3100.0	3100.0	3100.0	3100.0	3100.0	3100.0	3100.0	3100.0	3100.0
2.5°	2836.6	2787.8	2770.8	2746.4	2714.7	2724.4	2680.5	2665.9	2687.8	2717.1	2709.8
5°	2578.1	2524.4	2487.8	2431.7	2422.0	2400.0	2385.4	2365.9	2390.3	2424.4	2431.7
7.5°	2373.2	2326.9	2290.3	2273.2	2261.0	2251.2	2222.0	2207.3	2207.3	2222.0	2234.2
10°	2285.4	2251.2	2243.9	2248.8	2268.3	2265.9	2239.0	2219.5	2195.1	2182.9	2197.6
12.5°	2407.3	2351.2	2341.5	2343.9	2368.3	2365.9	2336.6	2312.2	2307.3	2312.2	2358.6
15°	2614.7	2529.3	2465.9	2453.7	2465.9	2461.0	2439.0	2424.4	2431.7	2502.5	2580.5
17.5°	2800.0	2668.3	2553.7	2509.8	2507.3	2500.0	2478.1	2473.2	2509.8	2641.5	2756.1
20°	2853.7	2724.4	2561.0	2504.9	2492.7	2485.4	2461.0	2468.3	2514.7	2673.2	2770.8
22.5°	2783.0	2658.6	2487.8	2431.7	2422.0	2419.5	2395.1	2404.9	2443.9	2583.0	2663.4
25°	2648.8	2543.9	2365.9	2317.1	2317.1	2312.2	2290.3	2295.1	2319.5	2441.5	2519.5
27.5°	2485.4	2385.4	2236.6	2187.8	2195.1	2202.5	2175.6	2168.3	2187.8	2302.5	2348.8
30°	2297.6	2226.8	2109.8	2065.9	2063.4	2092.7	2056.1	2046.4	2073.2	2163.4	2173.2
32.5°	2114.7	2080.5	1997.6	1963.4	1965.9	1970.7	1951.2	1951.2	1975.6	2024.4	2022.0
35°	1936.6	1914.7	1900.0	1875.6	1873.2	1863.4	1863.4	1868.3	1895.1	1912.2	1880.5
37.5°	1765.9	1787.8	1804.9	1780.5	1761.0	1761.0	1761.0	1782.9	1807.3	1800.0	1746.4
40°	1614.6	1661.0	1714.6	1687.8	1641.5	1639.0	1648.8	1685.4	1722.0	1678.1	1629.3
42.5°	1485.4	1543.9	1619.5	1604.9	1553.7	1546.4	1553.7	1600.0	1629.3	1573.2	1519.5
45°	1358.5	1431.7	1522.0	1522.0	1465.9	1458.5	1461.0	1522.0	1539.0	1473.2	1404.9
47.5°	1251.2	1331.7	1426.8	1426.8	1380.5	1365.9	1378.1	1441.5	1453.7	1361.0	1297.6
50°	1148.8	1236.6	1341.5	1334.2	1302.5	1290.3	1312.2	1380.5	1365.9	1263.4	1197.6
52.5°	1019.5	1112.2	1256.1	1263.4	1246.4	1248.8	1275.6	1319.5	1278.1	1153.7	1097.6
55°	902.4	997.6	1141.5	1180.5	1180.5	1178.1	1190.3	1224.4	1190.3	1041.5	973.2
57.5°	775.6	856.1	975.6	985.4	992.7	965.9	982.9	1029.3	1012.2	885.4	846.3
60°	636.6	704.9	773.2	780.5	748.8	692.7	724.4	778.1	790.3	695.1	651.2
62.5°	451.2	517.1	597.6	597.6	565.9	509.8	551.2	597.6	580.5	482.9	456.1
65°	336.6	397.6	458.5	485.4	458.5	419.5	451.2	485.4	458.5	378.1	339.0
67.5°	217.1	258.5	295.1	317.1	322.0	317.1	331.7	322.0	290.2	236.6	214.6
70°	131.7	153.7	173.2	192.7	207.3	214.6	222.0	200.0	168.3	139.0	131.7
72.5°	95.1	114.6	131.7	146.3	163.4	168.3	168.3	153.7	124.4	97.6	90.2
75°	65.9	82.9	97.6	107.3	122.0	126.8	126.8	114.6	92.7	70.7	63.4
77.5°	2.4	17.1	17.1	14.6	19.5	24.4	24.4	29.3	26.8	19.5	17.1
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°	3100.0	3100.0	3100.0	3100.0	3100.0	3100.0	3100.0	3100.0	3100.0	3100.0	3100.0
2.5°	2724.4	2812.2	2836.6	2926.9	3007.3	3087.8	3185.4	3243.9	3331.7	3392.7	3426.9
5°	2456.1	2529.3	2617.1	2751.2	2890.3	3043.9	3229.3	3390.3	3592.7	3741.5	3790.3
7.5°	2261.0	2356.1	2458.6	2626.9	2817.1	3022.0	3283.0	3546.4	3856.1	4058.6	4187.8
10°	2224.4	2322.0	2458.6	2624.4	2824.4	3058.6	3378.1	3719.5	4107.4	4353.7	4500.0
12.5°	2400.0	2504.9	2563.4	2639.0	2790.3	3051.2	3461.0	3895.2	4351.3	4619.6	4775.7
15°	2658.6	2751.2	2656.1	2561.0	2658.6	2973.2	3507.3	4041.5	4565.9	4875.7	5036.6
17.5°	2836.6	2843.9	2636.6	2434.2	2461.0	2831.7	3524.4	4187.8	4795.2	5119.6	5287.9
20°	2819.5	2761.0	2551.2	2326.9	2243.9	2648.8	3504.9	4317.1	5026.9	5365.9	5531.8
22.5°	2687.8	2619.5	2441.5	2222.0	2061.0	2431.7	3470.8	4434.2	5239.1	5624.4	5780.5
25°	2529.3	2456.1	2309.8	2117.1	1943.9	2222.0	3443.9	4595.2	5507.4	5961.0	6083.0
27.5°	2343.9	2280.5	2156.1	2017.1	1895.1	2063.4	3436.6	4807.4	5831.8	6370.8	6456.2
30°	2163.4	2104.9	2007.3	1926.8	1875.6	1970.7	3412.2	5034.2	6219.6	6841.5	6934.2
32.5°	1990.3	1931.7	1870.7	1858.6	1861.0	1936.6	3329.3	5258.6	6680.5	7524.5	7592.8
35°	1841.5	1773.2	1748.8	1778.1	1831.7	1878.1	3095.1	5444.0	7175.7	8268.4	8324.5
37.5°	1700.0	1631.7	1629.3	1700.0	1758.6	1787.8	2819.5	5626.9	7844.0	9024.5	9095.2
40°	1570.7	1502.5	1526.8	1612.2	1658.6	1673.2	2485.4	5904.9	8551.3	9822.0	9783.0
42.5°	1461.0	1390.3	1404.9	1514.6	1556.1	1595.1	2178.1	6136.6	9231.8	10578.1	10565.9
45°	1353.7	1300.0	1290.3	1409.8	1446.4	1602.5	1953.7	6314.7	10107.4	11541.6	11561.1
47.5°	1248.8	1207.3	1209.8	1261.0	1351.2	1639.0	1763.4	6431.8	11378.2	13068.4	12729.4
50°	1153.7	1122.0	1148.8	1090.3	1290.3	1592.7	1600.0	6407.4	12797.7	14531.8	13851.3
52.5°	1048.8	1041.5	1053.7	912.2	1192.7	1404.9	1446.4	6083.0	13463.5	15531.8	15144.0
55°	941.5	939.0	841.5	729.3	997.6	1122.0	1239.0	5075.7	13441.6	16063.6	16534.3
57.5°	814.6	795.1	639.0	595.1	775.6	780.5	1129.3	3324.4	11912.3	14790.4	15766.0
60°	617.1	602.4	468.3	482.9	541.5	500.0	900.0	1656.1	8902.5	11522.1	12622.1
62.5°	426.8	407.3	348.8	373.2	348.8	285.4	551.2	819.5	5392.7	7275.7	8273.2
65°	312.2	290.2	239.0	204.9	163.4	163.4	209.8	314.6	2087.8	3092.7	3729.3
67.5°	192.7	182.9	141.5	102.4	100.0	107.3	109.8	156.1	336.6	536.6	656.1
70°	124.4	114.6	95.1	65.9	61.0	63.4	65.9	73.2	85.4	92.7	112.2
72.5°	85.4	80.5	68.3	36.6	29.3	31.7	34.1	34.1	41.5	39.0	46.3
75°	61.0	56.1	48.8	17.1	9.8	12.2	14.6	12.2	14.6	9.8	12.2
77.5°	17.1	17.1	12.2	2.4	0.0	2.4	4.9	4.9	2.4	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4	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: P638754

CATALOG NUMBER: GWS-SA4F-740-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3100.0	3100.0	3100.0	3100.0	3100.0	3100.0	3100.0	3100.0	3100.0	3100.0
2.5°	3514.7	3570.8	3592.7	3561.0	3587.8	3543.9	3526.9	3461.0	3456.1	3443.9
5°	3987.8	4114.7	4190.3	4236.6	4183.0	4124.4	4036.6	3885.4	3839.1	3809.8
7.5°	4453.7	4651.3	4780.5	4841.5	4826.9	4707.4	4548.8	4295.2	4204.9	4161.0
10°	4858.6	5100.0	5256.1	5331.8	5300.0	5195.2	4968.3	4651.3	4531.7	4504.9
12.5°	5141.5	5363.5	5470.8	5536.6	5539.1	5497.6	5283.0	4963.5	4822.0	4787.8
15°	5319.6	5414.7	5417.1	5456.1	5524.4	5617.1	5517.1	5234.2	5083.0	5031.8
17.5°	5431.8	5326.9	5219.6	5229.3	5341.5	5587.9	5690.3	5473.2	5312.2	5256.1
20°	5512.2	5180.5	4980.5	4983.0	5097.6	5470.8	5809.8	5704.9	5539.1	5487.9
22.5°	5563.5	5051.3	4765.9	4758.6	4880.5	5331.8	5919.6	5980.5	5817.1	5758.6
25°	5668.3	4990.3	4636.6	4678.1	4785.4	5287.9	6068.3	6346.4	6195.2	6117.1
27.5°	5856.2	5051.3	4624.4	4719.6	4841.5	5417.1	6326.9	6834.2	6678.1	6590.3
30°	6180.5	5280.5	4812.2	4943.9	5090.3	5756.1	6761.0	7514.7	7290.3	7207.4
32.5°	6702.5	5756.1	5392.7	5675.7	5817.1	6312.3	7412.3	8278.1	8095.2	7929.3
35°	7422.0	6841.5	6800.1	7458.6	7424.5	7365.9	8212.3	9214.7	8939.1	8778.1
37.5°	8412.3	8587.9	8895.2	9548.9	9526.9	9080.6	9263.5	10100.1	9958.6	9751.3
40°	9648.9	10022.0	10544.0	11480.6	11187.9	10626.9	10553.8	11007.4	10892.8	10648.9
42.5°	10378.1	11022.1	12017.2	12858.7	12624.5	11644.0	11561.1	12219.6	11968.4	11702.5
45°	10717.2	11836.7	13787.9	14927.0	14217.2	12319.6	12287.9	13800.1	13658.7	13302.6
47.5°	10873.3	12658.7	15861.1	17585.5	16258.7	12912.3	12797.7	16092.8	15907.5	15487.9
50°	11046.4	13792.8	18358.7	20666.0	18724.6	13583.0	13666.0	18229.4	18151.4	17656.3
52.5°	11426.9	14992.8	21434.3	24188.0	21714.8	14634.3	15156.2	20244.1	19717.3	19146.5
55°	11997.7	16300.1	24634.4	27785.6	24766.1	16046.5	16768.4	21314.8	19836.8	19205.1
57.5°	11366.0	16627.0	26529.5	30297.8	26119.7	16051.4	15405.0	19458.7	17446.5	16834.3
60°	9019.6	15468.4	25800.2	29753.9	24966.1	14253.8	11795.2	15192.8	13217.2	12807.4
62.5°	6097.6	12973.3	22712.4	25163.6	21368.5	11212.3	7665.9	9880.6	8183.0	7844.0
65°	3341.5	9678.1	18351.4	19036.8	16724.5	7831.8	3943.9	4287.8	3265.9	3114.7
67.5°	922.0	6736.6	13502.6	12629.4	11734.3	5100.0	1019.5	765.9	546.3	541.5
70°	231.7	4456.1	8090.3	8339.1	7195.2	3265.9	195.1	92.7	73.2	70.7
72.5°	97.6	1917.1	3839.1	4412.2	3683.0	1512.2	70.7	26.8	22.0	17.1
75°	12.2	153.7	326.8	495.1	339.0	163.4	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)