

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: P637269

Luminaire Tested: GWS-SA4C-740-U-SLL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637269
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-SA4C-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: 10408.9 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: B2 - U0 - G1

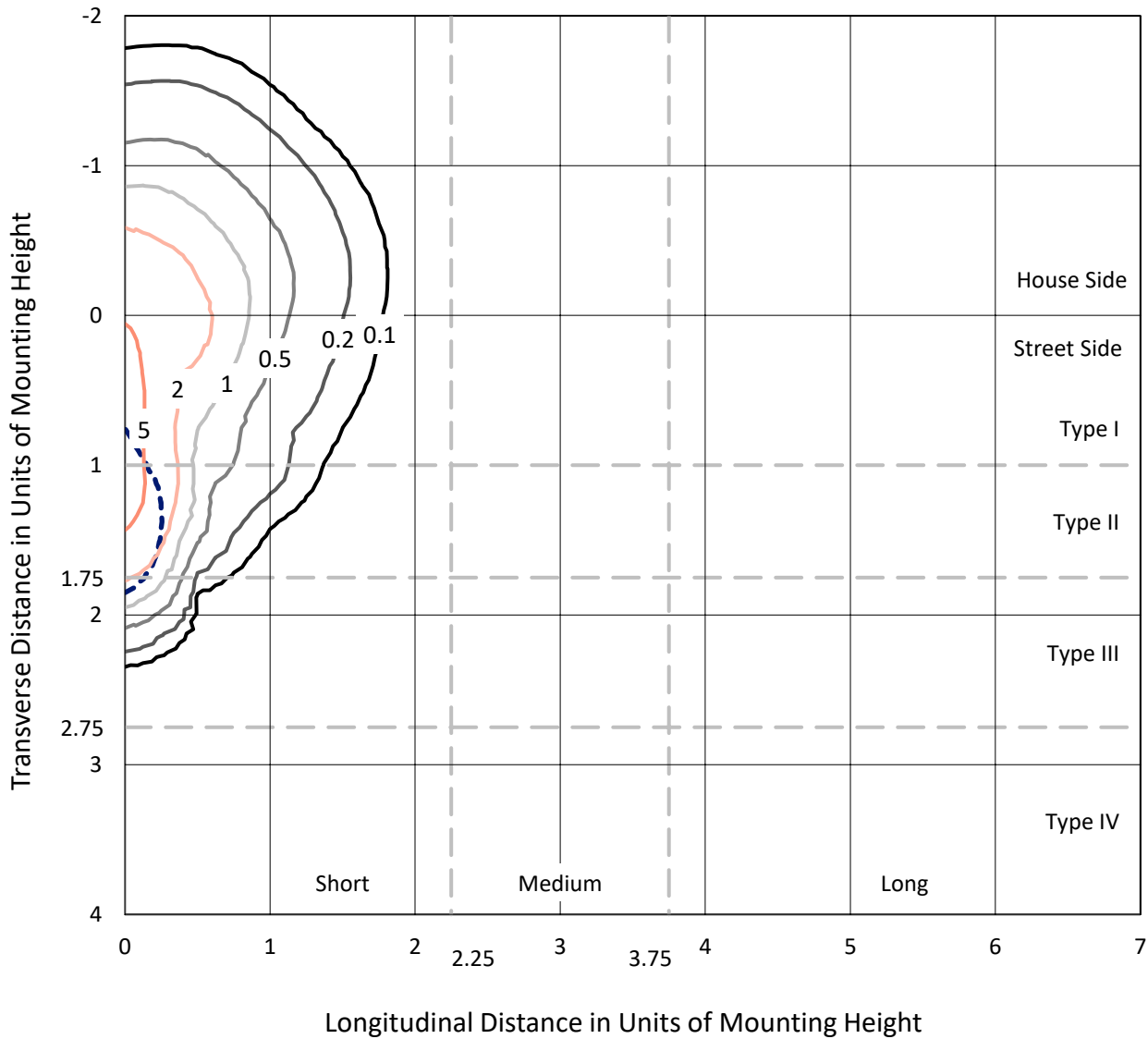
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

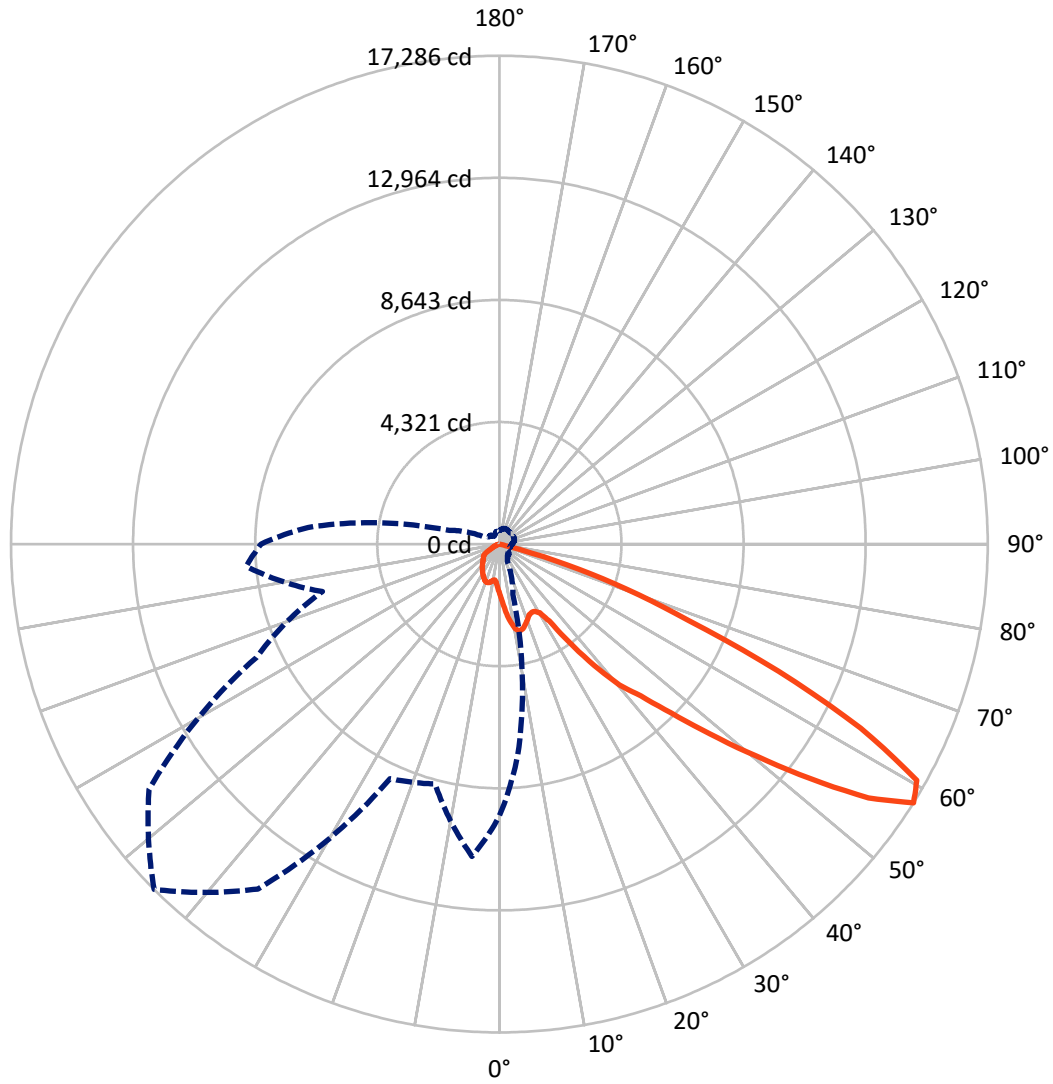
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.9 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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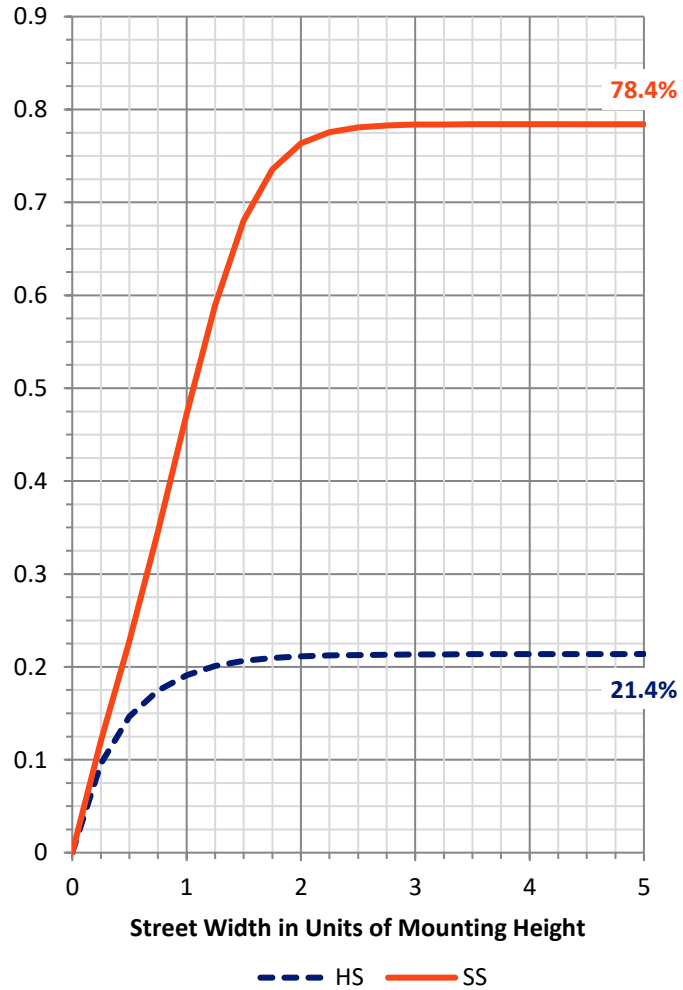
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2242.4	0.0	2242.4
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	8166.5	0.0	8166.5
	% Fixture	78.5	0.0	78.5
Total	Lumens	10408.9	0.0	10408.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.8	1.7
10°-20°	575.2	5.5
20°-30°	933.5	9.0
30°-40°	1432.7	13.8
40°-50°	2288.1	22.0
50°-60°	3203.8	30.8
60°-70°	1642.7	15.8
70°-80°	158.2	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°	10408.9	100.0
0°-180°	10408.9	100.0

Coefficient of Utilization

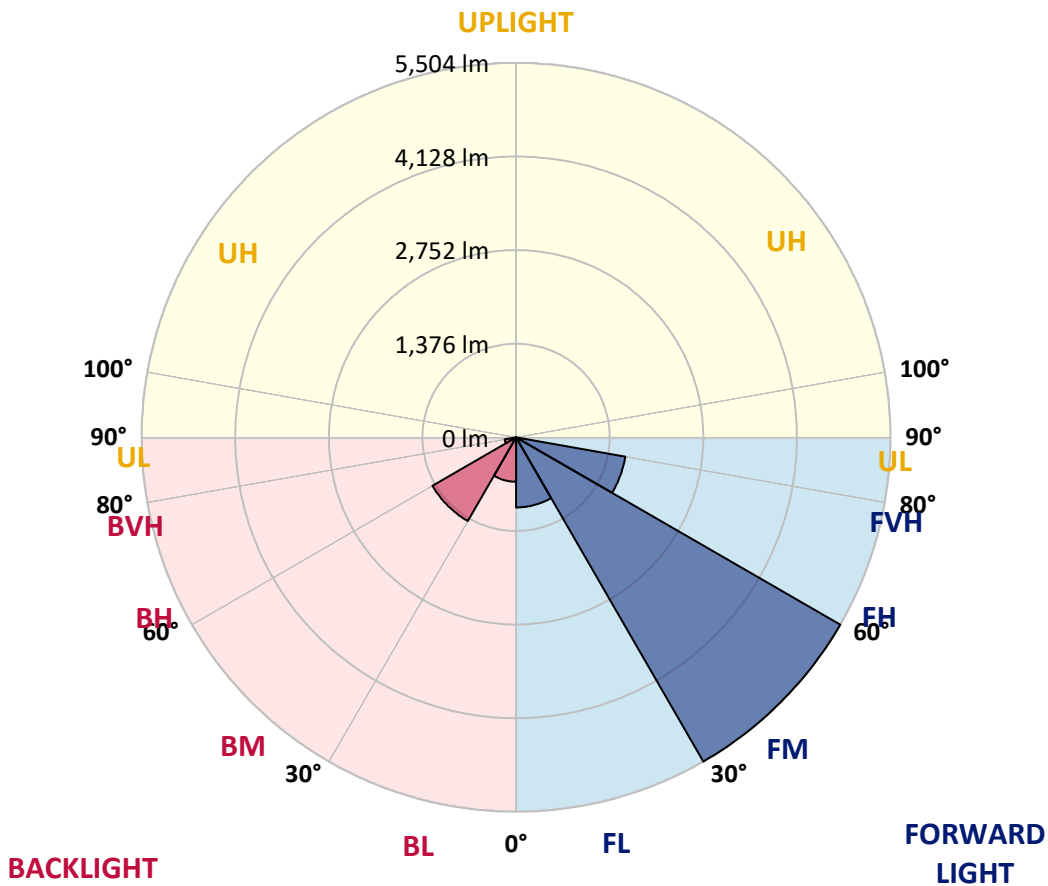


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1030.5	9.9			
FM (30°-60°)	5504.5	52.9			
FH (60°-80°)	1631.5	15.7			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	653.0	6.3	B2/1000		
BM (30°-60°)	1420.1	13.6	B2/2500		
BH (60°-80°)	169.4	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°	1768.6	1768.6	1768.6	1768.6	1768.6	1768.6	1768.6	1768.6	1768.6	1768.6	1768.6
2.5°	1964.8	1960.7	1946.7	1899.4	1870.2	1824.3	1790.9	1747.8	1700.4	1671.2	1642.0
5°	2173.6	2162.4	2124.9	2016.3	1932.8	1842.4	1770.0	1690.7	1605.8	1550.2	1498.7
7.5°	2373.9	2357.2	2307.1	2123.5	1996.8	1867.4	1764.5	1649.0	1529.3	1445.8	1381.8
10°	2570.1	2532.6	2453.3	2227.8	2056.7	1900.8	1779.8	1647.6	1507.0	1401.3	1330.3
12.5°	2731.6	2703.7	2595.2	2326.6	2106.8	1907.8	1758.9	1636.4	1541.8	1470.8	1405.4
15°	2870.7	2840.1	2737.1	2415.7	2149.9	1879.9	1671.2	1564.1	1579.4	1607.2	1551.5
17.5°	2998.7	2966.7	2855.4	2489.4	2166.6	1811.8	1548.8	1497.3	1582.2	1686.5	1665.7
20°	3130.9	3094.7	2958.4	2549.3	2161.0	1704.6	1424.9	1440.2	1559.9	1679.6	1690.7
22.5°	3285.4	3247.8	3089.2	2625.8	2156.9	1576.6	1317.8	1390.1	1518.2	1619.7	1639.2
25°	3489.9	3445.4	3271.5	2738.5	2168.0	1459.7	1241.2	1341.4	1447.2	1539.0	1550.2
27.5°	3759.9	3702.8	3481.6	2877.7	2191.6	1367.9	1207.8	1274.6	1356.7	1438.8	1448.6
30°	4112.0	4039.6	3722.3	2998.7	2180.5	1303.9	1185.6	1207.8	1256.5	1323.3	1324.7
32.5°	4523.8	4425.0	3992.3	3103.1	2084.5	1256.5	1155.0	1139.7	1150.8	1202.3	1212.0
35°	5008.1	4880.1	4290.1	3201.9	1909.2	1164.7	1099.3	1047.8	1043.6	1068.7	1092.3
37.5°	5563.3	5410.2	4665.8	3328.5	1701.8	1068.7	1017.2	965.7	943.5	956.0	992.2
40°	6075.4	5905.6	5058.2	3481.6	1490.3	982.4	921.2	868.3	841.9	846.0	890.6
42.5°	6676.5	6501.2	5538.3	3682.0	1315.0	924.0	821.0	766.7	731.9	751.4	802.9
45°	7589.4	7390.4	6238.2	3855.9	1175.8	910.1	733.3	656.8	640.1	673.5	734.7
47.5°	8836.2	8592.7	7199.7	3961.7	1057.6	922.6	672.1	567.7	571.9	609.5	670.7
50°	10073.2	9810.2	8311.6	3822.5	960.2	897.5	641.5	498.2	524.6	558.0	613.7
52.5°	10923.5	10581.1	8852.9	3420.4	871.1	802.9	638.7	432.8	482.9	494.0	541.3
55°	10956.9	10535.2	8576.0	2696.8	750.0	677.7	609.5	378.5	436.9	441.1	481.5
57.5°	9604.3	9223.0	7494.7	1852.1	666.5	496.8	485.6	331.2	359.0	393.8	418.8
60°	7306.9	6982.7	5605.1	848.8	506.5	315.9	332.6	285.3	268.6	320.1	345.1
62.5°	4475.1	4267.8	3361.9	375.7	322.8	168.4	201.8	226.8	201.8	221.3	242.1
65°	1777.0	1685.1	1276.0	160.0	132.2	84.9	91.8	132.2	141.9	155.9	175.3
67.5°	308.9	292.2	214.3	71.0	54.3	51.5	44.5	61.2	86.3	96.0	111.3
70°	40.4	39.0	34.8	29.2	27.8	25.0	19.5	39.0	58.4	61.2	71.0
72.5°	9.7	8.3	8.3	7.0	8.3	2.8	2.8	20.9	41.7	43.1	50.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	26.4	29.2	34.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
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°	1768.6	1768.6	1768.6	1768.6	1768.6	1768.6	1768.6	1768.6	1768.6	1768.6	1768.6
2.5°	1618.3	1590.5	1580.8	1566.9	1548.8	1554.3	1529.3	1520.9	1533.5	1550.2	1546.0
5°	1470.8	1440.2	1419.4	1387.3	1381.8	1369.3	1360.9	1349.8	1363.7	1383.2	1387.3
7.5°	1354.0	1327.5	1306.6	1296.9	1289.9	1284.4	1267.7	1259.3	1259.3	1267.7	1274.6
10°	1303.9	1284.4	1280.2	1283.0	1294.1	1292.7	1277.4	1266.3	1252.4	1245.4	1253.8
12.5°	1373.4	1341.4	1335.9	1337.3	1351.2	1349.8	1333.1	1319.2	1316.4	1319.2	1345.6
15°	1491.7	1443.0	1406.8	1399.9	1406.8	1404.0	1391.5	1383.2	1387.3	1427.7	1472.2
17.5°	1597.5	1522.3	1456.9	1431.9	1430.5	1426.3	1413.8	1411.0	1431.9	1507.0	1572.4
20°	1628.1	1554.3	1461.1	1429.1	1422.1	1418.0	1404.0	1408.2	1434.7	1525.1	1580.8
22.5°	1587.7	1516.8	1419.4	1387.3	1381.8	1380.4	1366.5	1372.0	1394.3	1473.6	1519.5
25°	1511.2	1451.4	1349.8	1321.9	1321.9	1319.2	1306.6	1309.4	1323.3	1392.9	1437.4
27.5°	1418.0	1360.9	1276.0	1248.2	1252.4	1256.5	1241.2	1237.1	1248.2	1313.6	1340.0
30°	1310.8	1270.5	1203.7	1178.6	1177.2	1193.9	1173.1	1167.5	1182.8	1234.3	1239.8
32.5°	1206.5	1187.0	1139.7	1120.2	1121.6	1124.4	1113.2	1113.2	1127.1	1155.0	1153.6
35°	1104.9	1092.3	1084.0	1070.1	1068.7	1063.1	1063.1	1065.9	1081.2	1091.0	1072.9
37.5°	1007.5	1020.0	1029.7	1015.8	1004.7	1004.7	1004.7	1017.2	1031.1	1026.9	996.3
40°	921.2	947.6	978.2	962.9	936.5	935.1	940.7	961.5	982.4	957.4	929.5
42.5°	847.4	880.8	924.0	915.6	886.4	882.2	886.4	912.8	929.5	897.5	866.9
45°	775.1	816.8	868.3	868.3	836.3	832.1	833.5	868.3	878.1	840.5	801.5
47.5°	713.9	759.8	814.0	814.0	787.6	779.3	786.2	822.4	829.3	776.5	740.3
50°	655.4	705.5	765.3	761.2	743.1	736.1	748.6	787.6	779.3	720.8	683.2
52.5°	581.7	634.5	716.6	720.8	711.1	712.5	727.8	752.8	729.2	658.2	626.2
55°	514.9	569.1	651.2	673.5	673.5	672.1	679.1	698.5	679.1	594.2	555.2
57.5°	442.5	488.4	556.6	562.2	566.4	551.0	560.8	587.2	577.5	505.1	482.9
60°	363.2	402.2	441.1	445.3	427.2	395.2	413.3	443.9	450.9	396.6	371.5
62.5°	257.4	295.0	340.9	340.9	322.8	290.8	314.5	340.9	331.2	275.5	260.2
65°	192.0	226.8	261.6	276.9	261.6	239.3	257.4	276.9	261.6	215.7	193.4
67.5°	123.8	147.5	168.4	180.9	183.7	180.9	189.2	183.7	165.6	135.0	122.5
70°	75.1	87.7	98.8	109.9	118.3	122.5	126.6	114.1	96.0	79.3	75.1
72.5°	54.3	65.4	75.1	83.5	93.2	96.0	96.0	87.7	71.0	55.7	51.5
75°	37.6	47.3	55.7	61.2	69.6	72.4	72.4	65.4	52.9	40.4	36.2
77.5°	1.4	9.7	9.7	8.3	11.1	13.9	13.9	16.7	15.3	11.1	9.7
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°	1768.6	1768.6	1768.6	1768.6	1768.6	1768.6	1768.6	1768.6	1768.6	1768.6	1768.6
2.5°	1554.3	1604.4	1618.3	1669.8	1715.7	1761.7	1817.3	1850.7	1900.8	1935.6	1955.1
5°	1401.3	1443.0	1493.1	1569.6	1649.0	1736.6	1842.4	1934.2	2049.7	2134.6	2162.4
7.5°	1289.9	1344.2	1402.7	1498.7	1607.2	1724.1	1873.0	2023.3	2200.0	2315.5	2389.2
10°	1269.1	1324.7	1402.7	1497.3	1611.4	1745.0	1927.3	2122.1	2343.3	2483.9	2567.4
12.5°	1369.3	1429.1	1462.5	1505.6	1591.9	1740.8	1974.6	2222.3	2482.5	2635.5	2724.6
15°	1516.8	1569.6	1515.4	1461.1	1516.8	1696.3	2001.0	2305.8	2604.9	2781.7	2873.5
17.5°	1618.3	1622.5	1504.2	1388.7	1404.0	1615.6	2010.8	2389.2	2735.7	2920.8	3016.8
20°	1608.6	1575.2	1455.5	1327.5	1280.2	1511.2	1999.6	2463.0	2867.9	3061.4	3156.0
22.5°	1533.5	1494.5	1392.9	1267.7	1175.8	1387.3	1980.1	2529.8	2989.0	3208.9	3297.9
25°	1443.0	1401.3	1317.8	1207.8	1109.0	1267.7	1964.8	2621.6	3142.1	3400.9	3470.5
27.5°	1337.3	1301.1	1230.1	1150.8	1081.2	1177.2	1960.7	2742.7	3327.1	3634.7	3683.4
30°	1234.3	1200.9	1145.2	1099.3	1070.1	1124.4	1946.7	2872.1	3548.4	3903.2	3956.1
32.5°	1135.5	1102.1	1067.3	1060.3	1061.7	1104.9	1899.4	3000.1	3811.4	4292.8	4331.8
35°	1050.6	1011.6	997.7	1014.4	1045.0	1071.5	1765.8	3105.9	4093.9	4717.3	4749.3
37.5°	969.9	930.9	929.5	969.9	1003.3	1020.0	1608.6	3210.2	4475.1	5148.6	5189.0
40°	896.1	857.2	871.1	919.8	946.2	954.6	1418.0	3368.9	4878.7	5603.7	5581.4
42.5°	833.5	793.2	801.5	864.1	887.8	910.1	1242.6	3501.1	5266.9	6035.0	6028.1
45°	772.3	741.7	736.1	804.3	825.2	914.2	1114.6	3602.7	5766.5	6584.7	6595.8
47.5°	712.5	688.8	690.2	719.4	770.9	935.1	1006.1	3669.4	6491.5	7455.8	7262.4
50°	658.2	640.1	655.4	622.0	736.1	908.7	912.8	3655.5	7301.3	8290.7	7902.5
52.5°	598.4	594.2	601.1	520.4	680.5	801.5	825.2	3470.5	7681.2	8861.2	8640.0
55°	537.1	535.7	480.1	416.1	569.1	640.1	706.9	2895.8	7668.7	9164.6	9433.1
57.5°	464.8	453.6	364.6	339.5	442.5	445.3	644.3	1896.6	6796.2	8438.2	8994.8
60°	352.1	343.7	267.2	275.5	308.9	285.3	513.5	944.8	5079.1	6573.6	7201.1
62.5°	243.5	232.4	199.0	212.9	199.0	162.8	314.5	467.6	3076.7	4150.9	4720.0
65°	178.1	165.6	136.4	116.9	93.2	93.2	119.7	179.5	1191.1	1764.5	2127.6
67.5°	109.9	104.4	80.7	58.4	57.1	61.2	62.6	89.1	192.0	306.1	374.3
70°	71.0	65.4	54.3	37.6	34.8	36.2	37.6	41.7	48.7	52.9	64.0
72.5°	48.7	45.9	39.0	20.9	16.7	18.1	19.5	19.5	23.7	22.3	26.4
75°	34.8	32.0	27.8	9.7	5.6	7.0	8.3	7.0	8.3	5.6	7.0
77.5°	9.7	9.7	7.0	1.4	0.0	1.4	2.8	2.8	1.4	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	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: P637269

CATALOG NUMBER: GWS-SA4C-740-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1768.6	1768.6	1768.6	1768.6	1768.6	1768.6	1768.6	1768.6	1768.6	1768.6
2.5°	2005.2	2037.2	2049.7	2031.6	2046.9	2021.9	2012.1	1974.6	1971.8	1964.8
5°	2275.1	2347.5	2390.6	2417.1	2386.5	2353.1	2303.0	2216.7	2190.3	2173.6
7.5°	2540.9	2653.6	2727.4	2762.2	2753.8	2685.6	2595.2	2450.5	2399.0	2373.9
10°	2771.9	2909.7	2998.7	3041.9	3023.8	2963.9	2834.5	2653.6	2585.5	2570.1
12.5°	2933.3	3060.0	3121.2	3158.8	3160.1	3136.5	3014.0	2831.8	2751.0	2731.6
15°	3034.9	3089.2	3090.6	3112.8	3151.8	3204.7	3147.6	2986.2	2899.9	2870.7
17.5°	3098.9	3039.1	2977.9	2983.4	3047.4	3188.0	3246.4	3122.6	3030.7	2998.7
20°	3144.8	2955.6	2841.5	2842.9	2908.3	3121.2	3314.6	3254.8	3160.1	3130.9
22.5°	3174.1	2881.8	2719.0	2714.9	2784.4	3041.9	3377.2	3412.0	3318.8	3285.4
25°	3233.9	2847.1	2645.3	2668.9	2730.2	3016.8	3462.1	3620.7	3534.5	3489.9
27.5°	3341.0	2881.8	2638.3	2692.6	2762.2	3090.6	3609.6	3899.0	3810.0	3759.9
30°	3526.1	3012.6	2745.5	2820.6	2904.1	3284.0	3857.3	4287.3	4159.3	4112.0
32.5°	3823.9	3284.0	3076.7	3238.1	3318.8	3601.3	4228.8	4722.8	4618.5	4523.8
35°	4234.4	3903.2	3879.6	4255.3	4235.8	4202.4	4685.3	5257.2	5099.9	5008.1
37.5°	4799.4	4899.6	5074.9	5447.8	5435.3	5180.6	5285.0	5762.3	5681.6	5563.3
40°	5504.9	5717.8	6015.6	6549.9	6382.9	6062.9	6021.1	6279.9	6214.5	6075.4
42.5°	5920.9	6288.3	6856.0	7336.1	7202.5	6643.1	6595.8	6971.5	6828.2	6676.5
45°	6114.4	6753.1	7866.3	8516.1	8111.2	7028.6	7010.5	7873.2	7792.5	7589.4
47.5°	6203.4	7222.0	9049.1	10032.9	9275.9	7366.7	7301.3	9181.3	9075.5	8836.2
50°	6302.2	7869.1	10474.0	11790.4	10682.7	7749.4	7796.7	10400.2	10355.7	10073.2
52.5°	6519.3	8553.7	12228.7	13799.7	12388.7	8349.1	8646.9	11549.6	11249.1	10923.5
55°	6844.9	9299.6	14054.4	15852.2	14129.5	9154.8	9566.7	12160.5	11317.3	10956.9
57.5°	6484.5	9486.0	15135.6	17285.5	14901.8	9157.6	8788.9	11101.6	9953.6	9604.3
60°	5145.9	8825.0	14719.5	16975.2	14243.6	8132.1	6729.4	8667.8	7540.7	7306.9
62.5°	3478.8	7401.5	12957.9	14356.3	12191.1	6396.8	4373.6	5637.1	4668.6	4475.1
65°	1906.4	5521.6	10469.8	10860.8	9541.7	4468.2	2250.1	2446.3	1863.2	1777.0
67.5°	526.0	3843.4	7703.5	7205.3	6694.6	2909.7	581.7	436.9	311.7	308.9
70°	132.2	2542.3	4615.7	4757.6	4105.0	1863.2	111.3	52.9	41.7	40.4
72.5°	55.7	1093.7	2190.3	2517.3	2101.2	862.7	40.4	15.3	12.5	9.7
75°	7.0	87.7	186.5	282.5	193.4	93.2	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)