

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: P637214

Luminaire Tested: GWS-SA4C-735-U-SLL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637214
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10266.2 lumens
Efficiency: N/A
Efficacy: 79.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

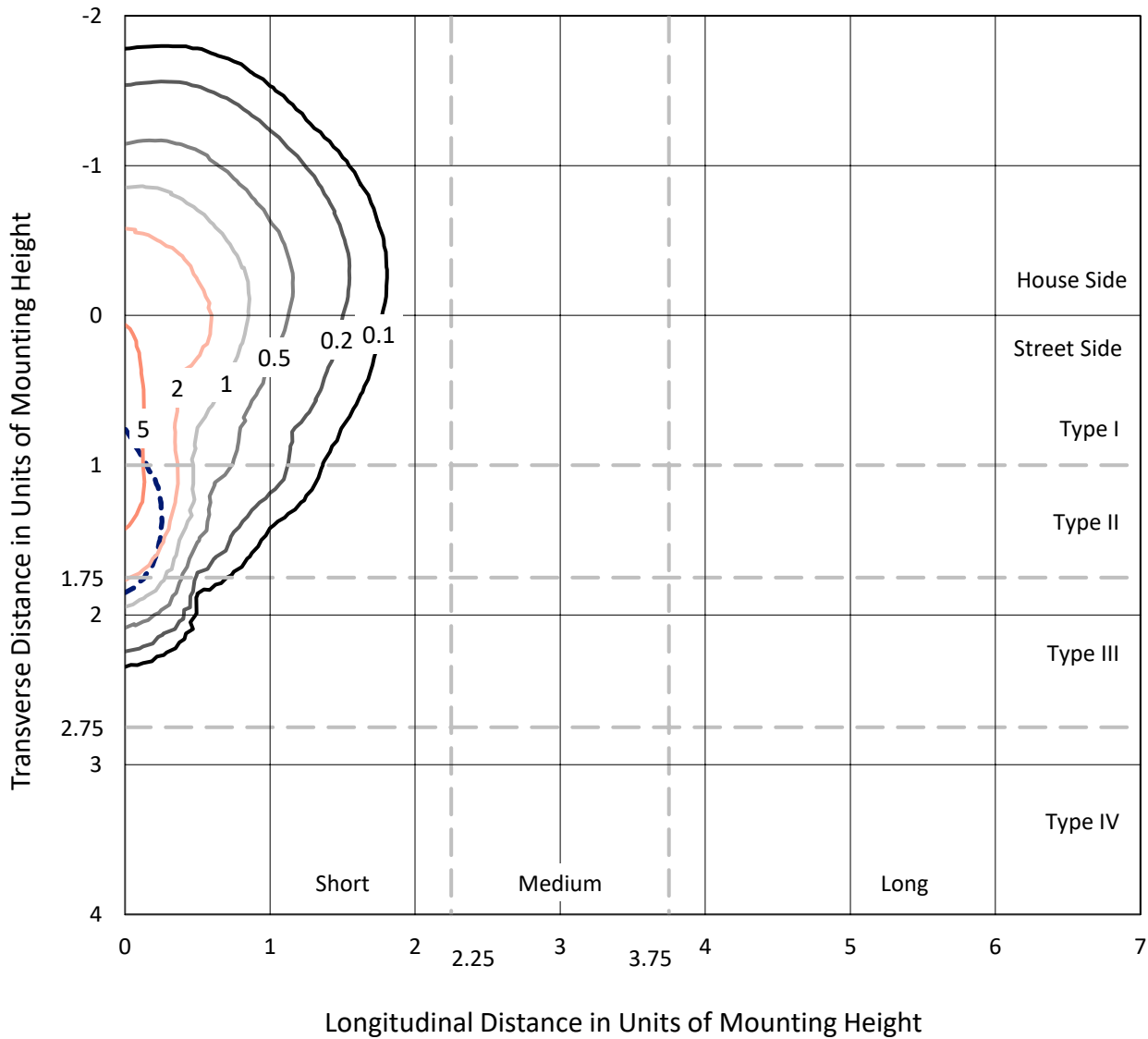
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

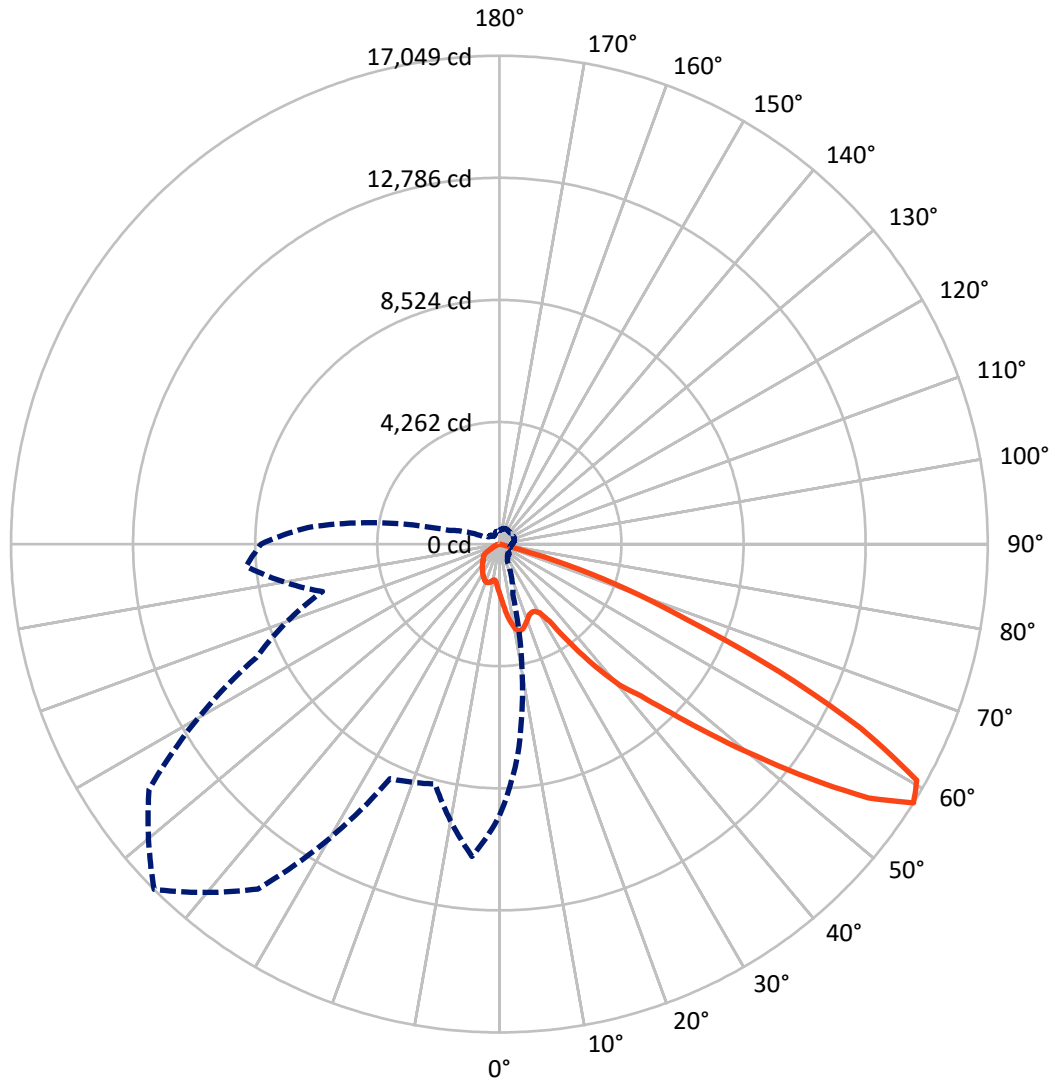
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.8 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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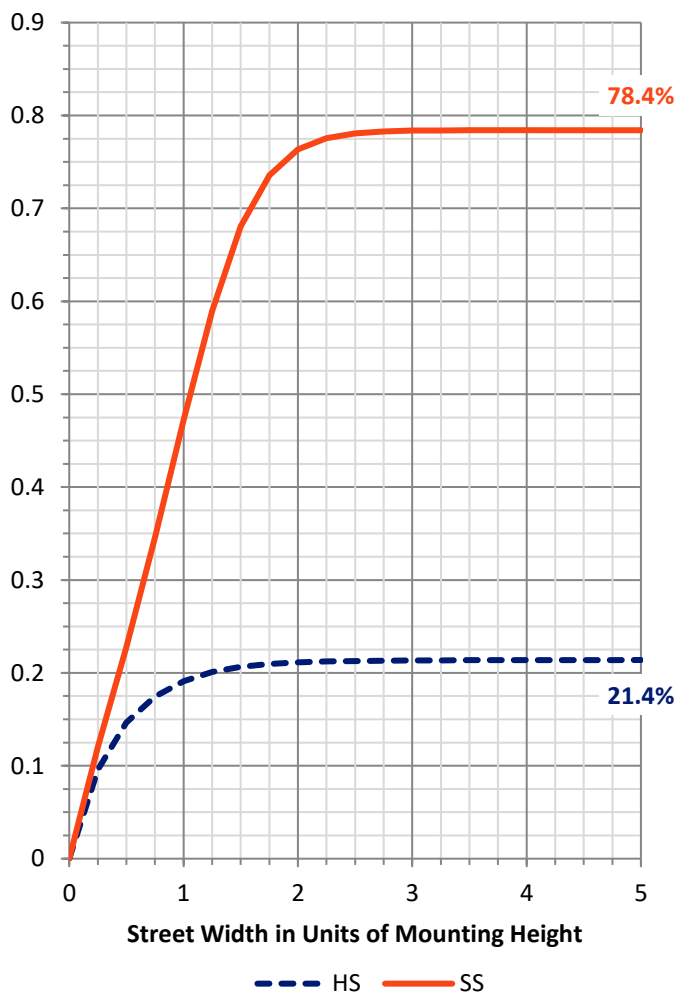
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2211.7	0.0	2211.7
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	8054.5	0.0	8054.5
	% Fixture	78.5	0.0	78.5
Total	Lumens	10266.2	0.0	10266.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.4	1.7
10°-20°	567.3	5.5
20°-30°	920.7	9.0
30°-40°	1413.1	13.8
40°-50°	2256.7	22.0
50°-60°	3159.9	30.8
60°-70°	1620.1	15.8
70°-80°	156.0	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°	10266.2	100.0
0°-180°	10266.2	100.0

Coefficient of Utilization



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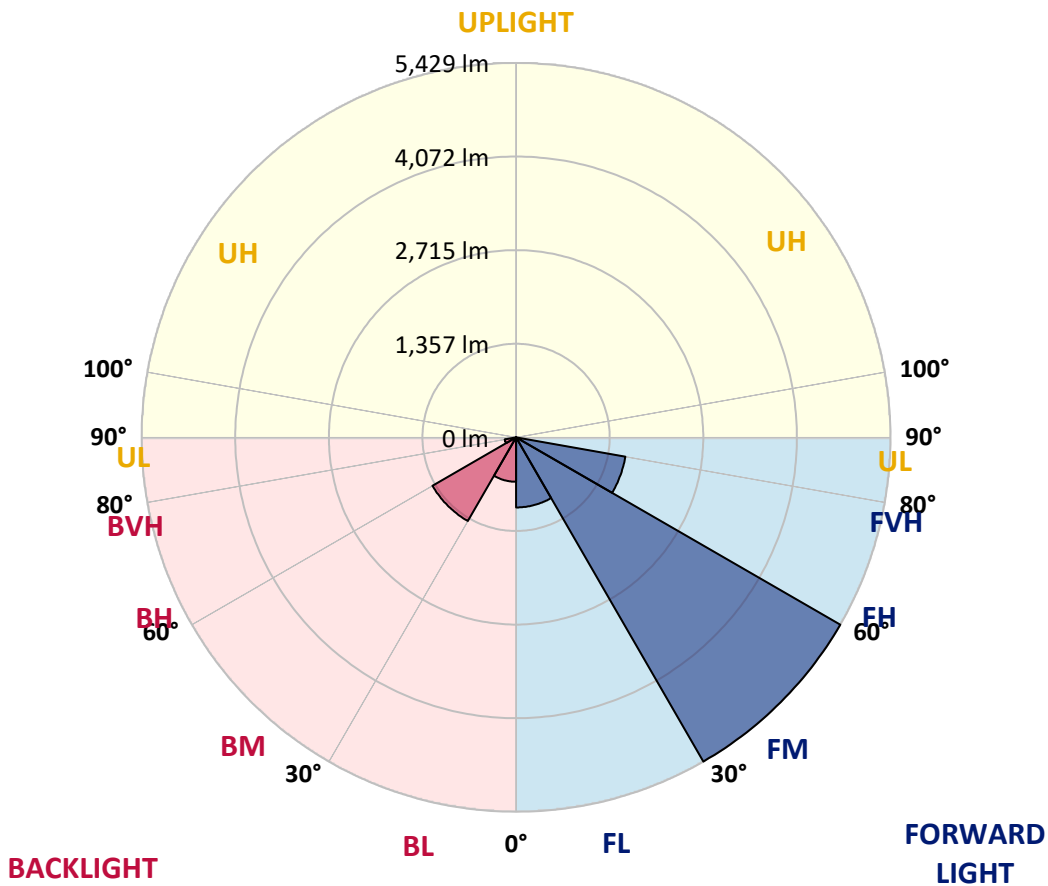
CATALOG NUMBER: GWS-SA4C-735-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1016.4	9.9			
FM (30°-60°)	5429.0	52.9			
FH (60°-80°)	1609.1	15.7			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	644.0	6.3	B2/1000		
BM (30°-60°)	1400.6	13.6	B2/2500		
BH (60°-80°)	167.0	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°	1744.4	1744.4	1744.4	1744.4	1744.4	1744.4	1744.4	1744.4	1744.4	1744.4	1744.4
2.5°	1937.9	1933.8	1920.1	1873.4	1844.6	1799.3	1766.3	1723.8	1677.1	1648.3	1619.5
5°	2143.8	2132.8	2095.7	1988.7	1906.3	1817.1	1745.8	1667.5	1583.8	1528.9	1478.1
7.5°	2341.4	2324.9	2275.5	2094.4	1969.5	1841.8	1740.3	1626.3	1508.3	1426.0	1362.8
10°	2534.9	2497.9	2419.6	2197.3	2028.5	1874.8	1755.4	1625.0	1486.4	1382.1	1312.1
12.5°	2694.1	2666.7	2559.6	2294.7	2077.9	1881.6	1734.8	1614.0	1520.7	1450.7	1386.2
15°	2831.4	2801.2	2699.6	2382.6	2120.4	1854.2	1648.3	1542.6	1557.7	1585.2	1530.3
17.5°	2957.6	2926.1	2816.3	2455.3	2136.9	1786.9	1527.5	1476.8	1560.5	1663.4	1642.8
20°	3088.0	3052.3	2917.8	2514.3	2131.4	1681.2	1405.4	1420.5	1538.5	1656.5	1667.5
22.5°	3240.3	3203.3	3046.8	2589.8	2127.3	1555.0	1299.7	1371.1	1497.3	1597.5	1616.7
25°	3442.1	3398.2	3226.6	2701.0	2138.3	1439.7	1224.2	1323.0	1427.3	1517.9	1528.9
27.5°	3708.4	3652.1	3433.9	2838.2	2161.6	1349.1	1191.3	1257.2	1338.1	1419.1	1428.7
30°	4055.6	3984.2	3671.3	2957.6	2150.6	1286.0	1169.3	1191.3	1239.3	1305.2	1306.6
32.5°	4461.8	4364.4	3937.5	3060.6	2055.9	1239.3	1139.1	1124.0	1135.0	1185.8	1195.4
35°	4939.4	4813.2	4231.3	3158.0	1883.0	1148.7	1084.2	1033.5	1029.3	1054.0	1077.4
37.5°	5487.0	5336.1	4601.8	3282.9	1678.5	1054.0	1003.3	952.5	930.5	942.9	978.6
40°	5992.1	5824.7	4988.8	3433.9	1469.9	968.9	908.6	856.4	830.3	834.4	878.4
42.5°	6585.0	6412.1	5462.3	3631.5	1297.0	911.3	809.7	756.2	721.9	741.1	791.9
45°	7485.3	7289.1	6152.7	3803.0	1159.7	897.6	723.3	647.8	631.3	664.3	724.7
47.5°	8715.0	8474.9	7101.0	3907.4	1043.1	909.9	662.9	560.0	564.1	601.1	661.5
50°	9935.1	9675.7	8197.6	3770.1	947.0	885.2	632.7	491.3	517.4	550.4	605.2
52.5°	10773.7	10436.1	8731.5	3373.5	859.2	791.9	630.0	426.8	476.2	487.2	533.9
55°	10806.6	10390.8	8458.4	2659.8	739.7	668.4	601.1	373.3	430.9	435.1	474.9
57.5°	9472.6	9096.6	7392.0	1826.7	657.4	490.0	479.0	326.6	354.1	388.4	413.1
60°	7206.7	6886.9	5528.2	837.2	499.6	311.5	328.0	281.4	264.9	315.7	340.4
62.5°	4413.8	4209.3	3315.8	370.6	318.4	166.1	199.0	223.7	199.0	218.2	238.8
65°	1752.6	1662.0	1258.5	157.8	130.4	83.7	90.6	130.4	140.0	153.7	172.9
67.5°	304.7	288.2	211.4	70.0	53.5	50.8	43.9	60.4	85.1	94.7	109.8
70°	39.8	38.4	34.3	28.8	27.4	24.7	19.2	38.4	57.6	60.4	70.0
72.5°	9.6	8.2	8.2	6.9	8.2	2.7	2.7	20.6	41.2	42.5	49.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	26.1	28.8	34.3
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°	1744.4	1744.4	1744.4	1744.4	1744.4	1744.4	1744.4	1744.4	1744.4	1744.4	1744.4
2.5°	1596.2	1568.7	1559.1	1545.4	1527.5	1533.0	1508.3	1500.1	1512.4	1528.9	1524.8
5°	1450.7	1420.5	1399.9	1368.3	1362.8	1350.5	1342.3	1331.3	1345.0	1364.2	1368.3
7.5°	1335.4	1309.3	1288.7	1279.1	1272.3	1266.8	1250.3	1242.1	1242.1	1250.3	1257.2
10°	1286.0	1266.8	1262.7	1265.4	1276.4	1275.0	1259.9	1248.9	1235.2	1228.3	1236.6
12.5°	1354.6	1323.0	1317.5	1318.9	1332.6	1331.3	1314.8	1301.1	1298.3	1301.1	1327.2
15°	1471.3	1423.2	1387.5	1380.7	1387.5	1384.8	1372.4	1364.2	1368.3	1408.1	1452.0
17.5°	1575.6	1501.5	1437.0	1412.2	1410.9	1406.8	1394.4	1391.7	1412.2	1486.4	1550.9
20°	1605.8	1533.0	1441.1	1409.5	1402.6	1398.5	1384.8	1388.9	1415.0	1504.2	1559.1
22.5°	1566.0	1496.0	1399.9	1368.3	1362.8	1361.5	1347.7	1353.2	1375.2	1453.4	1498.7
25°	1490.5	1431.5	1331.3	1303.8	1303.8	1301.1	1288.7	1291.5	1305.2	1373.8	1417.7
27.5°	1398.5	1342.3	1258.5	1231.1	1235.2	1239.3	1224.2	1220.1	1231.1	1295.6	1321.7
30°	1292.8	1253.0	1187.2	1162.5	1161.1	1177.6	1157.0	1151.5	1166.6	1217.4	1222.8
32.5°	1189.9	1170.7	1124.0	1104.8	1106.2	1108.9	1098.0	1098.0	1111.7	1139.1	1137.8
35°	1089.7	1077.4	1069.1	1055.4	1054.0	1048.5	1048.5	1051.3	1066.4	1076.0	1058.2
37.5°	993.7	1006.0	1015.6	1001.9	990.9	990.9	990.9	1003.3	1017.0	1012.9	982.7
40°	908.6	934.6	964.8	949.7	923.7	922.3	927.8	948.4	968.9	944.2	916.8
42.5°	835.8	868.8	911.3	903.1	874.2	870.1	874.2	900.3	916.8	885.2	855.0
45°	764.5	805.6	856.4	856.4	824.8	820.7	822.1	856.4	866.0	829.0	790.5
47.5°	704.1	749.4	802.9	802.9	776.8	768.6	775.4	811.1	818.0	765.8	730.1
50°	646.4	695.8	754.8	750.7	732.9	726.0	738.4	776.8	768.6	710.9	673.9
52.5°	573.7	625.8	706.8	710.9	701.3	702.7	717.8	742.5	719.2	649.2	617.6
55°	507.8	561.3	642.3	664.3	664.3	662.9	669.8	689.0	669.8	586.0	547.6
57.5°	436.4	481.7	549.0	554.5	558.6	543.5	553.1	579.2	569.6	498.2	476.2
60°	358.2	396.6	435.1	439.2	421.3	389.8	407.6	437.8	444.7	391.1	366.4
62.5°	253.9	291.0	336.2	336.2	318.4	286.8	310.2	336.2	326.6	271.7	256.6
65°	189.4	223.7	258.0	273.1	258.0	236.1	253.9	273.1	258.0	212.7	190.8
67.5°	122.1	145.5	166.1	178.4	181.2	178.4	186.7	181.2	163.3	133.1	120.8
70°	74.1	86.5	97.4	108.4	116.7	120.8	124.9	112.5	94.7	78.2	74.1
72.5°	53.5	64.5	74.1	82.3	92.0	94.7	94.7	86.5	70.0	54.9	50.8
75°	37.1	46.7	54.9	60.4	68.6	71.4	71.4	64.5	52.2	39.8	35.7
77.5°	1.4	9.6	9.6	8.2	11.0	13.7	13.7	16.5	15.1	11.0	9.6
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°	1744.4	1744.4	1744.4	1744.4	1744.4	1744.4	1744.4	1744.4	1744.4	1744.4	1744.4
2.5°	1533.0	1582.4	1596.2	1646.9	1692.2	1737.5	1792.4	1825.4	1874.8	1909.1	1928.3
5°	1382.1	1423.2	1472.6	1548.1	1626.3	1712.8	1817.1	1907.7	2021.6	2105.3	2132.8
7.5°	1272.3	1325.8	1383.4	1478.1	1585.2	1700.5	1847.3	1995.5	2169.8	2283.8	2356.5
10°	1251.7	1306.6	1383.4	1476.8	1589.3	1721.0	1900.8	2093.0	2311.2	2449.8	2532.2
12.5°	1350.5	1409.5	1442.4	1485.0	1570.1	1716.9	1947.5	2191.8	2448.4	2599.4	2687.3
15°	1496.0	1548.1	1494.6	1441.1	1496.0	1673.0	1973.6	2274.1	2569.2	2743.5	2834.1
17.5°	1596.2	1600.3	1483.6	1369.7	1384.8	1593.4	1983.2	2356.5	2698.2	2880.8	2975.5
20°	1586.5	1553.6	1435.6	1309.3	1262.7	1490.5	1972.2	2429.2	2828.6	3019.4	3112.7
22.5°	1512.4	1474.0	1373.8	1250.3	1159.7	1368.3	1953.0	2495.1	2948.0	3164.9	3252.7
25°	1423.2	1382.1	1299.7	1191.3	1093.8	1250.3	1937.9	2585.7	3099.0	3354.3	3422.9
27.5°	1318.9	1283.2	1213.2	1135.0	1066.4	1161.1	1933.8	2705.1	3281.5	3584.8	3632.9
30°	1217.4	1184.4	1129.5	1084.2	1055.4	1108.9	1920.1	2832.7	3499.7	3849.7	3901.9
32.5°	1119.9	1087.0	1052.7	1045.8	1047.2	1089.7	1873.4	2959.0	3759.1	4234.0	4272.4
35°	1036.2	997.8	984.0	1000.5	1030.7	1056.8	1741.6	3063.3	4037.7	4652.6	4684.2
37.5°	956.6	918.2	916.8	956.6	989.5	1006.0	1586.5	3166.2	4413.8	5078.1	5117.9
40°	883.9	845.4	859.2	907.2	933.3	941.5	1398.5	3322.7	4811.8	5526.8	5504.9
42.5°	822.1	782.3	790.5	852.3	875.6	897.6	1225.6	3453.1	5194.7	5952.3	5945.4
45°	761.7	731.5	726.0	793.3	813.9	901.7	1099.3	3553.3	5687.4	6494.4	6505.4
47.5°	702.7	679.4	680.7	709.6	760.3	922.3	992.3	3619.1	6402.5	7353.6	7162.8
50°	649.2	631.3	646.4	613.5	726.0	896.2	900.3	3605.4	7201.2	8177.0	7794.1
52.5°	590.2	586.0	592.9	513.3	671.1	790.5	813.9	3422.9	7575.9	8739.7	8521.5
55°	529.8	528.4	473.5	410.4	561.3	631.3	697.2	2856.1	7563.6	9038.9	9303.8
57.5°	458.4	447.4	359.6	334.9	436.4	439.2	635.4	1870.6	6703.0	8322.5	8871.5
60°	347.2	339.0	263.5	271.7	304.7	281.4	506.4	931.9	5009.4	6483.4	7102.4
62.5°	240.2	229.2	196.3	210.0	196.3	160.6	310.2	461.1	3034.5	4094.0	4655.3
65°	175.7	163.3	134.5	115.3	92.0	92.0	118.0	177.0	1174.8	1740.3	2098.5
67.5°	108.4	102.9	79.6	57.6	56.3	60.4	61.8	87.8	189.4	301.9	369.2
70°	70.0	64.5	53.5	37.1	34.3	35.7	37.1	41.2	48.0	52.2	63.1
72.5°	48.0	45.3	38.4	20.6	16.5	17.8	19.2	19.2	23.3	22.0	26.1
75°	34.3	31.6	27.4	9.6	5.5	6.9	8.2	6.9	8.2	5.5	6.9
77.5°	9.6	9.6	6.9	1.4	0.0	1.4	2.7	2.7	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: P637214

CATALOG NUMBER: GWS-SA4C-735-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1744.4	1744.4	1744.4	1744.4	1744.4	1744.4	1744.4	1744.4	1744.4	1744.4
2.5°	1977.7	2009.3	2021.6	2003.8	2018.9	1994.2	1984.6	1947.5	1944.8	1937.9
5°	2244.0	2315.3	2357.9	2383.9	2353.7	2320.8	2271.4	2186.3	2160.2	2143.8
7.5°	2506.1	2617.3	2690.0	2724.3	2716.1	2648.8	2559.6	2416.9	2366.1	2341.4
10°	2733.9	2869.8	2957.6	3000.2	2982.3	2923.3	2795.7	2617.3	2550.0	2534.9
12.5°	2893.1	3018.0	3078.4	3115.5	3116.8	3093.5	2972.7	2792.9	2713.3	2694.1
15°	2993.3	3046.8	3048.2	3070.2	3108.6	3160.7	3104.5	2945.3	2860.2	2831.4
17.5°	3056.4	2997.4	2937.0	2942.5	3005.7	3144.3	3201.9	3079.8	2989.2	2957.6
20°	3101.7	2915.1	2802.5	2803.9	2868.4	3078.4	3269.2	3210.2	3116.8	3088.0
22.5°	3130.6	2842.3	2681.8	2677.6	2746.3	3000.2	3330.9	3365.2	3273.3	3240.3
25°	3189.6	2808.0	2609.0	2632.4	2692.7	2975.5	3414.6	3571.1	3486.0	3442.1
27.5°	3295.2	2842.3	2602.2	2655.7	2724.3	3048.2	3560.1	3845.6	3757.8	3708.4
30°	3477.8	2971.3	2707.8	2781.9	2864.3	3239.0	3804.4	4228.5	4102.2	4055.6
32.5°	3771.5	3239.0	3034.5	3193.7	3273.3	3551.9	4170.9	4658.1	4555.1	4461.8
35°	4176.4	3849.7	3826.4	4196.9	4177.7	4144.8	4621.0	5185.1	5030.0	4939.4
37.5°	4733.6	4832.4	5005.3	5373.1	5360.8	5109.6	5212.6	5683.3	5603.7	5487.0
40°	5429.4	5639.4	5933.1	6460.1	6295.4	5979.7	5938.6	6193.9	6129.3	5992.1
42.5°	5839.8	6202.1	6762.0	7235.5	7103.8	6552.1	6505.4	6876.0	6734.6	6585.0
45°	6030.5	6660.5	7758.4	8399.4	8000.0	6932.2	6914.4	7765.3	7685.7	7485.3
47.5°	6118.4	7123.0	8925.0	9895.3	9148.7	7265.7	7201.2	9055.4	8951.1	8715.0
50°	6215.8	7761.2	10330.4	11628.7	10536.3	7643.2	7689.8	10257.7	10213.7	9935.1
52.5°	6429.9	8436.4	12061.1	13610.6	12218.9	8234.7	8528.4	11391.3	11094.9	10773.7
55°	6751.1	9172.1	13861.7	15634.9	13935.8	9029.3	9435.6	11993.8	11162.1	10806.6
57.5°	6395.6	9356.0	14928.1	17048.5	14697.5	9032.1	8668.4	10949.4	9817.1	9472.6
60°	5075.3	8704.1	14517.7	16742.5	14048.4	8020.6	6637.2	8549.0	7437.3	7206.7
62.5°	3431.1	7300.0	12780.2	14159.5	12024.0	6309.1	4313.6	5559.8	4604.6	4413.8
65°	1880.3	5445.9	10326.3	10711.9	9410.9	4406.9	2219.2	2412.8	1837.7	1752.6
67.5°	518.8	3790.7	7597.9	7106.5	6602.8	2869.8	573.7	430.9	307.4	304.7
70°	130.4	2507.5	4552.4	4692.4	4048.7	1837.7	109.8	52.2	41.2	39.8
72.5°	54.9	1078.7	2160.2	2482.8	2072.4	850.9	39.8	15.1	12.4	9.6
75°	6.9	86.5	183.9	278.6	190.8	92.0	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)