

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: P639524

Luminaire Tested: GWS-SA5C-722-U-SLL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639524
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-SA5C-722-U-SLL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9405.4 lumens
Efficiency: N/A
Efficacy: 59.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

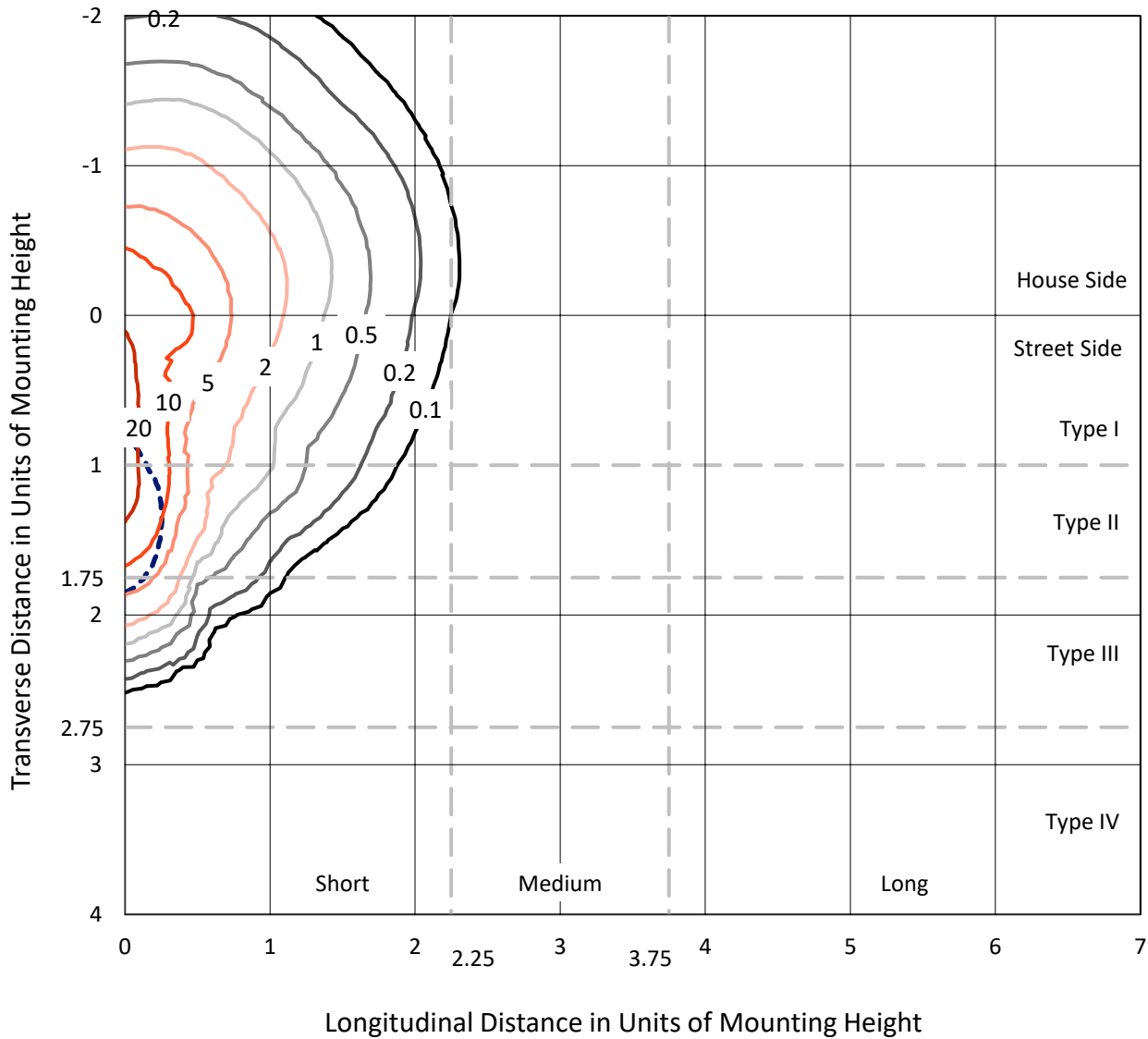
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

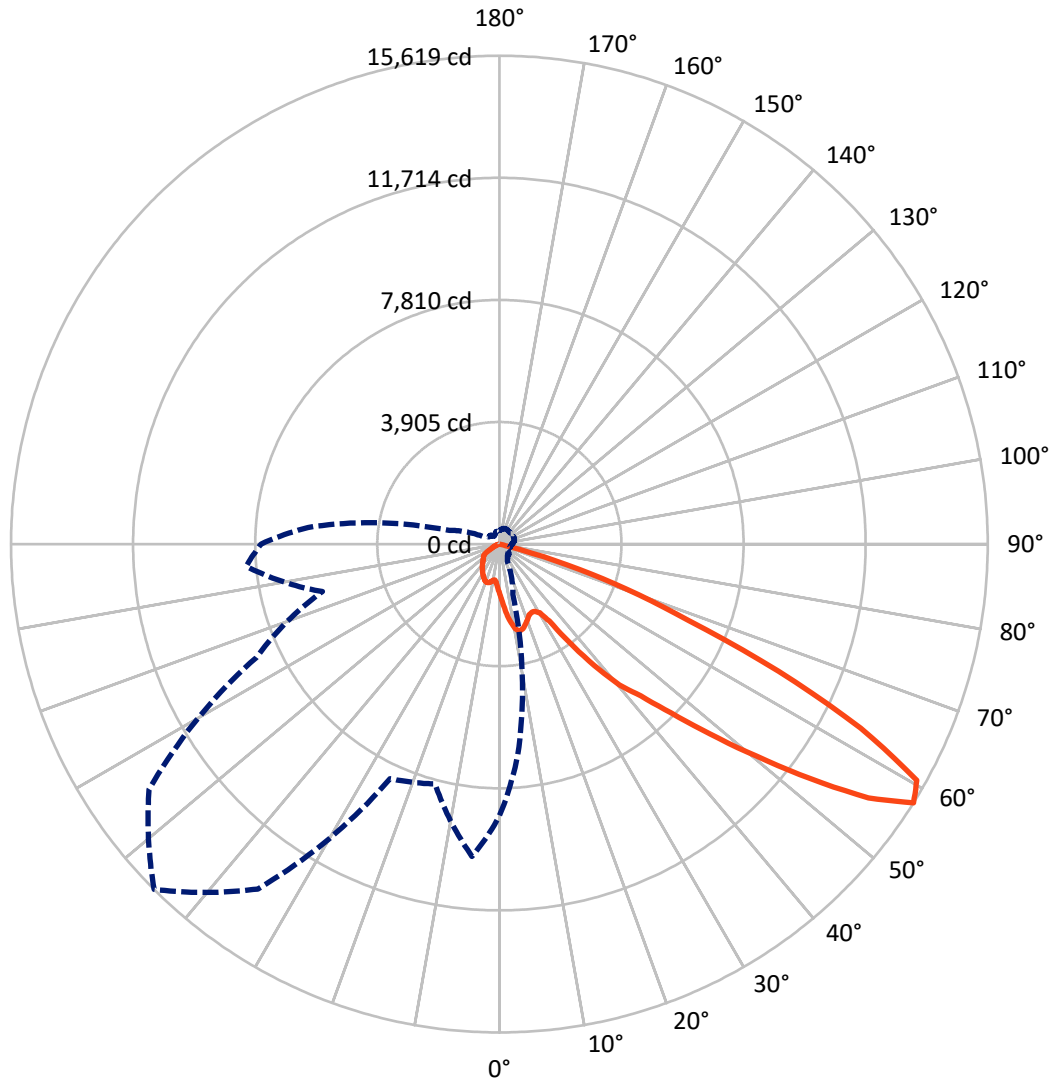
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 25.1 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	2026.2	0.0	2026.2
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	7379.2	0.0	7379.2
	% Fixture	78.5	0.0	78.5
Total	Lumens	9405.4	0.0	9405.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.0	1.7
10°-20°	519.7	5.5
20°-30°	843.5	9.0
30°-40°	1294.6	13.8
40°-50°	2067.5	22.0
50°-60°	2894.9	30.8
60°-70°	1484.3	15.8
70°-80°	142.9	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°	9405.4	100.0
0°-180°	9405.4	100.0

Coefficient of Utilization



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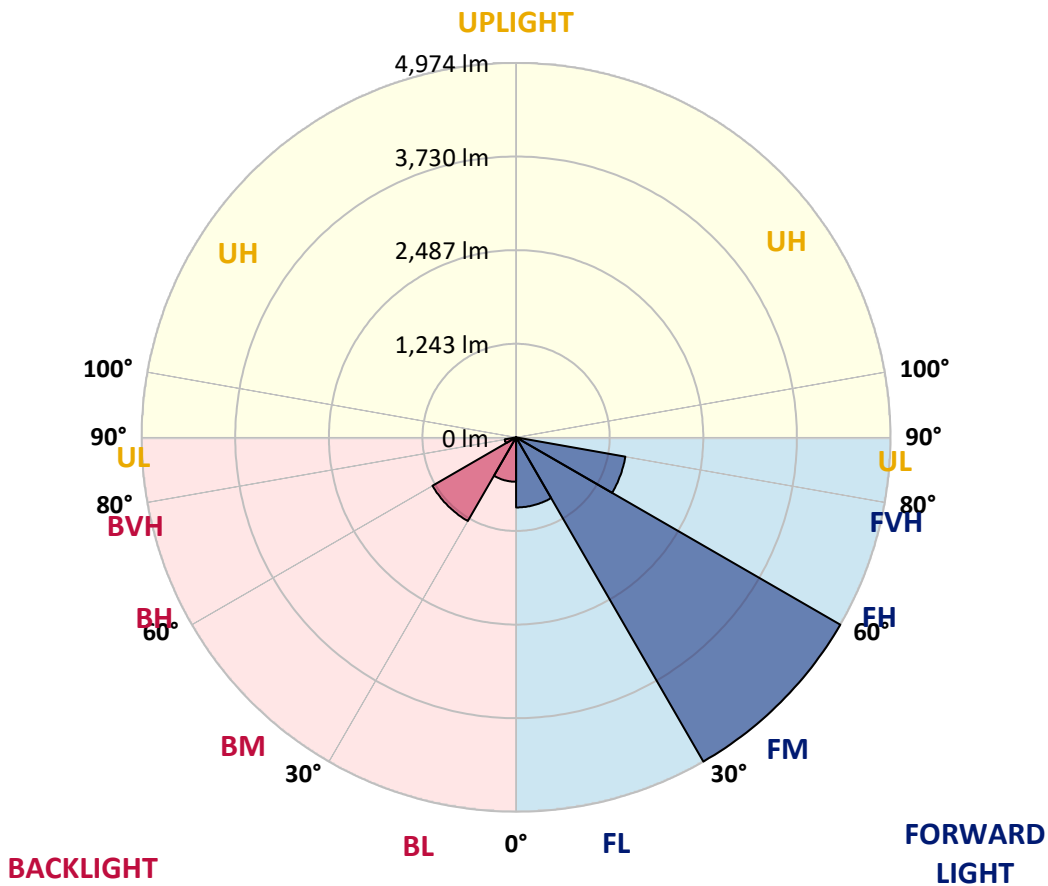
CATALOG NUMBER: GWS-SA5C-722-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	931.2	9.9			
FM (30°-60°)	4973.8	52.9			
FH (60°-80°)	1474.2	15.7			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	590.0	6.3	B2/1000		
BM (30°-60°)	1283.2	13.6	B2/2500		
BH (60°-80°)	153.0	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°	1598.1	1598.1	1598.1	1598.1	1598.1	1598.1	1598.1	1598.1	1598.1	1598.1	1598.1
2.5°	1775.4	1771.6	1759.1	1716.3	1689.9	1648.4	1618.2	1579.3	1536.5	1510.1	1483.7
5°	1964.0	1954.0	1920.0	1821.9	1746.5	1664.8	1599.4	1527.7	1451.0	1400.7	1354.2
7.5°	2145.1	2130.0	2084.7	1918.7	1804.3	1687.4	1594.3	1490.0	1381.8	1306.4	1248.6
10°	2322.4	2288.4	2216.7	2013.0	1858.4	1717.6	1608.2	1488.7	1361.7	1266.2	1202.0
12.5°	2468.2	2443.1	2345.0	2102.3	1903.7	1723.9	1589.3	1478.7	1393.2	1329.0	1269.9
15°	2594.0	2566.3	2473.2	2182.8	1942.6	1698.7	1510.1	1413.3	1427.1	1452.3	1402.0
17.5°	2709.6	2680.7	2580.1	2249.4	1957.7	1637.1	1399.5	1352.9	1429.6	1523.9	1505.1
20°	2829.1	2796.4	2673.2	2303.5	1952.7	1540.3	1287.5	1301.4	1409.5	1517.6	1527.7
22.5°	2968.6	2934.7	2791.4	2372.7	1948.9	1424.6	1190.7	1256.1	1371.8	1463.6	1481.2
25°	3153.5	3113.2	2956.1	2474.5	1959.0	1319.0	1121.6	1212.1	1307.7	1390.7	1400.7
27.5°	3397.4	3345.9	3145.9	2600.2	1980.4	1236.0	1091.4	1151.8	1225.9	1300.1	1308.9
30°	3715.5	3650.1	3363.5	2709.6	1970.3	1178.2	1071.3	1091.4	1135.4	1195.8	1197.0
32.5°	4087.7	3998.4	3607.4	2803.9	1883.5	1135.4	1043.6	1029.8	1039.8	1086.4	1095.2
35°	4525.3	4409.6	3876.5	2893.2	1725.1	1052.4	993.3	946.8	943.0	965.7	987.0
37.5°	5027.0	4888.7	4216.0	3007.6	1537.8	965.7	919.1	872.6	852.5	863.8	896.5
40°	5489.7	5336.3	4570.5	3145.9	1346.6	887.7	832.4	784.6	760.7	764.5	804.7
42.5°	6032.9	5874.4	5004.3	3327.0	1188.2	834.9	741.8	692.8	661.4	679.0	725.5
45°	6857.7	6677.9	5636.8	3484.2	1062.5	822.3	662.6	593.5	578.4	608.6	663.9
47.5°	7984.3	7764.3	6505.6	3579.7	955.6	833.6	607.3	513.0	516.8	550.7	606.1
50°	9102.1	8864.5	7510.3	3454.0	867.6	811.0	579.6	450.1	474.0	504.2	554.5
52.5°	9870.4	9561.0	7999.4	3090.6	787.1	725.5	577.1	391.0	436.3	446.4	489.1
55°	9900.5	9519.5	7749.2	2436.8	677.7	612.3	550.7	342.0	394.8	398.6	435.0
57.5°	8678.4	8333.8	6772.2	1673.6	602.3	448.9	438.8	299.3	324.4	355.8	378.5
60°	6602.4	6309.5	5064.7	767.0	457.7	285.4	300.5	257.8	242.7	289.2	311.8
62.5°	4043.7	3856.4	3037.8	339.5	291.7	152.1	182.3	205.0	182.3	199.9	218.8
65°	1605.7	1522.7	1153.0	144.6	119.5	76.7	83.0	119.5	128.3	140.8	158.4
67.5°	279.1	264.0	193.6	64.1	49.0	46.5	40.2	55.3	78.0	86.8	100.6
70°	36.5	35.2	31.4	26.4	25.1	22.6	17.6	35.2	52.8	55.3	64.1
72.5°	8.8	7.5	7.5	6.3	7.5	2.5	2.5	18.9	37.7	39.0	45.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	23.9	26.4	31.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1598.1	1598.1	1598.1	1598.1	1598.1	1598.1	1598.1	1598.1	1598.1	1598.1	1598.1
2.5°	1462.3	1437.2	1428.4	1415.8	1399.5	1404.5	1381.8	1374.3	1385.6	1400.7	1396.9
5°	1329.0	1301.4	1282.5	1253.6	1248.6	1237.3	1229.7	1219.6	1232.2	1249.8	1253.6
7.5°	1223.4	1199.5	1180.7	1171.9	1165.6	1160.6	1145.5	1137.9	1137.9	1145.5	1151.8
10°	1178.2	1160.6	1156.8	1159.3	1169.4	1168.1	1154.3	1144.2	1131.6	1125.3	1132.9
12.5°	1241.0	1212.1	1207.1	1208.3	1220.9	1219.6	1204.6	1192.0	1189.5	1192.0	1215.9
15°	1347.9	1303.9	1271.2	1264.9	1271.2	1268.7	1257.4	1249.8	1253.6	1290.1	1330.3
17.5°	1443.5	1375.6	1316.5	1293.8	1292.6	1288.8	1277.5	1275.0	1293.8	1361.7	1420.8
20°	1471.1	1404.5	1320.2	1291.3	1285.0	1281.3	1268.7	1272.5	1296.3	1378.1	1428.4
22.5°	1434.7	1370.5	1282.5	1253.6	1248.6	1247.3	1234.7	1239.8	1259.9	1331.6	1373.0
25°	1365.5	1311.4	1219.6	1194.5	1194.5	1192.0	1180.7	1183.2	1195.8	1258.6	1298.9
27.5°	1281.3	1229.7	1153.0	1127.9	1131.6	1135.4	1121.6	1117.8	1127.9	1187.0	1210.8
30°	1184.4	1148.0	1087.6	1065.0	1063.7	1078.8	1060.0	1054.9	1068.8	1115.3	1120.3
32.5°	1090.1	1072.5	1029.8	1012.2	1013.4	1016.0	1005.9	1005.9	1018.5	1043.6	1042.4
35°	998.4	987.0	979.5	966.9	965.7	960.6	960.6	963.1	977.0	985.8	969.4
37.5°	910.3	921.7	930.5	917.9	907.8	907.8	907.8	919.1	931.7	927.9	900.3
40°	832.4	856.3	883.9	870.1	846.2	845.0	850.0	868.8	887.7	865.1	839.9
42.5°	765.7	795.9	834.9	827.3	800.9	797.2	800.9	824.8	839.9	811.0	783.3
45°	700.4	738.1	784.6	784.6	755.7	751.9	753.2	784.6	793.4	759.5	724.2
47.5°	645.0	686.5	735.6	735.6	711.7	704.1	710.4	743.1	749.4	701.6	668.9
50°	592.2	637.5	691.6	687.8	671.4	665.1	676.5	711.7	704.1	651.3	617.4
52.5°	525.6	573.4	647.5	651.3	642.5	643.8	657.6	680.2	658.9	594.7	565.8
55°	465.2	514.3	588.4	608.6	608.6	607.3	613.6	631.2	613.6	536.9	501.7
57.5°	399.8	441.3	502.9	508.0	511.7	497.9	506.7	530.6	521.8	456.4	436.3
60°	328.2	363.4	398.6	402.4	386.0	357.1	373.4	401.1	407.4	358.4	335.7
62.5°	232.6	266.6	308.1	308.1	291.7	262.8	284.2	308.1	299.3	249.0	235.1
65°	173.5	205.0	236.4	250.2	236.4	216.3	232.6	250.2	236.4	194.9	174.8
67.5°	111.9	133.3	152.1	163.5	166.0	163.5	171.0	166.0	149.6	122.0	110.6
70°	67.9	79.2	89.3	99.3	106.9	110.6	114.4	103.1	86.8	71.7	67.9
72.5°	49.0	59.1	67.9	75.4	84.2	86.8	86.8	79.2	64.1	50.3	46.5
75°	33.9	42.8	50.3	55.3	62.9	65.4	65.4	59.1	47.8	36.5	32.7
77.5°	1.3	8.8	8.8	7.5	10.1	12.6	12.6	15.1	13.8	10.1	8.8
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°	1598.1	1598.1	1598.1	1598.1	1598.1	1598.1	1598.1	1598.1	1598.1	1598.1	1598.1
2.5°	1404.5	1449.7	1462.3	1508.8	1550.3	1591.8	1642.1	1672.3	1717.6	1749.0	1766.6
5°	1266.2	1303.9	1349.2	1418.3	1490.0	1569.2	1664.8	1747.7	1852.1	1928.8	1954.0
7.5°	1165.6	1214.6	1267.4	1354.2	1452.3	1557.9	1692.4	1828.2	1987.9	2092.3	2158.9
10°	1146.7	1197.0	1267.4	1352.9	1456.0	1576.7	1741.5	1917.5	2117.4	2244.4	2319.8
12.5°	1237.3	1291.3	1321.5	1360.5	1438.4	1573.0	1784.2	2008.0	2243.1	2381.5	2461.9
15°	1370.5	1418.3	1369.3	1320.2	1370.5	1532.7	1808.1	2083.5	2353.8	2513.5	2596.5
17.5°	1462.3	1466.1	1359.2	1254.9	1268.7	1459.8	1816.9	2158.9	2472.0	2639.2	2726.0
20°	1453.5	1423.3	1315.2	1199.5	1156.8	1365.5	1806.8	2225.5	2591.4	2766.2	2851.7
22.5°	1385.6	1350.4	1258.6	1145.5	1062.5	1253.6	1789.2	2285.9	2700.8	2899.5	2980.0
25°	1303.9	1266.2	1190.7	1091.4	1002.1	1145.5	1775.4	2368.9	2839.1	3073.0	3135.9
27.5°	1208.3	1175.6	1111.5	1039.8	977.0	1063.7	1771.6	2478.3	3006.4	3284.2	3328.3
30°	1115.3	1085.1	1034.8	993.3	966.9	1016.0	1759.1	2595.2	3206.3	3526.9	3574.7
32.5°	1026.0	995.8	964.4	958.1	959.4	998.4	1716.3	2710.9	3443.9	3879.0	3914.2
35°	949.3	914.1	901.5	916.6	944.3	968.2	1595.6	2806.4	3699.2	4262.5	4291.4
37.5°	876.4	841.2	839.9	876.4	906.6	921.7	1453.5	2900.8	4043.7	4652.3	4688.7
40°	809.7	774.5	787.1	831.1	855.0	862.6	1281.3	3044.1	4408.3	5063.4	5043.3
42.5°	753.2	716.7	724.2	780.8	802.2	822.3	1122.8	3163.5	4759.1	5453.2	5446.9
45°	697.8	670.2	665.1	726.8	745.6	826.1	1007.2	3255.3	5210.5	5949.9	5959.9
47.5°	643.8	622.4	623.7	650.1	696.6	845.0	909.1	3315.7	5865.6	6737.0	6562.2
50°	594.7	578.4	592.2	562.0	665.1	821.1	824.8	3303.1	6597.4	7491.4	7140.6
52.5°	540.7	536.9	543.2	470.3	614.9	724.2	745.6	3135.9	6940.7	8006.9	7807.0
55°	485.3	484.1	433.8	376.0	514.3	578.4	638.7	2616.6	6929.4	8281.0	8523.7
57.5°	420.0	409.9	329.4	306.8	399.8	402.4	582.2	1713.8	6141.0	7624.7	8127.6
60°	318.1	310.6	241.4	249.0	279.1	257.8	464.0	853.8	4589.4	5939.8	6506.9
62.5°	220.0	210.0	179.8	192.4	179.8	147.1	284.2	422.5	2780.0	3750.7	4265.0
65°	160.9	149.6	123.2	105.6	84.2	84.2	108.1	162.2	1076.3	1594.3	1922.5
67.5°	99.3	94.3	72.9	52.8	51.6	55.3	56.6	80.5	173.5	276.6	338.2
70°	64.1	59.1	49.0	33.9	31.4	32.7	33.9	37.7	44.0	47.8	57.8
72.5°	44.0	41.5	35.2	18.9	15.1	16.3	17.6	17.6	21.4	20.1	23.9
75°	31.4	28.9	25.1	8.8	5.0	6.3	7.5	6.3	7.5	5.0	6.3
77.5°	8.8	8.8	6.3	1.3	0.0	1.3	2.5	2.5	1.3	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	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-SA5C-722-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1598.1	1598.1	1598.1	1598.1	1598.1	1598.1	1598.1	1598.1	1598.1	1598.1
2.5°	1811.9	1840.8	1852.1	1835.8	1849.6	1827.0	1818.2	1784.2	1781.7	1775.4
5°	2055.8	2121.2	2160.2	2184.1	2156.4	2126.2	2080.9	2003.0	1979.1	1964.0
7.5°	2296.0	2397.8	2464.4	2495.9	2488.3	2426.7	2345.0	2214.2	2167.7	2145.1
10°	2504.7	2629.2	2709.6	2748.6	2732.3	2678.2	2561.3	2397.8	2336.2	2322.4
12.5°	2650.5	2765.0	2820.3	2854.2	2855.5	2834.1	2723.5	2558.7	2485.8	2468.2
15°	2742.3	2791.4	2792.6	2812.7	2847.9	2895.7	2844.2	2698.3	2620.4	2594.0
17.5°	2800.2	2746.1	2690.8	2695.8	2753.6	2880.6	2933.4	2821.5	2738.6	2709.6
20°	2841.7	2670.7	2567.5	2568.8	2627.9	2820.3	2995.1	2941.0	2855.5	2829.1
22.5°	2868.1	2604.0	2456.9	2453.1	2516.0	2748.6	3051.6	3083.1	2998.8	2968.6
25°	2922.1	2572.6	2390.3	2411.6	2467.0	2726.0	3128.3	3271.7	3193.7	3153.5
27.5°	3018.9	2604.0	2384.0	2433.0	2495.9	2792.6	3261.6	3523.1	3442.7	3397.4
30°	3186.2	2722.2	2480.8	2548.7	2624.1	2967.4	3485.4	3874.0	3758.3	3715.5
32.5°	3455.3	2967.4	2780.0	2925.9	2998.8	3254.1	3821.1	4267.5	4173.2	4087.7
35°	3826.2	3526.9	3505.5	3845.0	3827.4	3797.3	4233.6	4750.3	4608.3	4525.3
37.5°	4336.7	4427.2	4585.6	4922.6	4911.3	4681.2	4775.5	5206.8	5133.8	5027.0
40°	4974.2	5166.5	5435.6	5918.4	5767.6	5478.4	5440.6	5674.5	5615.4	5489.7
42.5°	5350.1	5682.1	6195.1	6628.9	6508.1	6002.7	5959.9	6299.4	6169.9	6032.9
45°	5524.9	6102.0	7107.9	7695.1	7329.2	6351.0	6334.6	7114.2	7041.3	6857.7
47.5°	5605.4	6525.7	8176.7	9065.6	8381.6	6656.5	6597.4	8296.1	8200.6	7984.3
50°	5694.6	7110.4	9464.2	10653.7	9652.8	7002.3	7045.0	9397.6	9357.3	9102.1
52.5°	5890.8	7729.1	11049.8	12469.3	11194.4	7544.2	7813.3	10436.2	10164.6	9870.4
55°	6185.0	8403.0	12699.4	14324.0	12767.3	8272.2	8644.4	10988.2	10226.2	9900.5
57.5°	5859.3	8571.5	13676.4	15619.0	13465.2	8274.7	7941.5	10031.3	8994.0	8678.4
60°	4649.8	7974.2	13300.5	15338.7	12870.4	7348.1	6080.6	7832.2	6813.7	6602.4
62.5°	3143.4	6687.9	11708.6	12972.3	11015.8	5780.1	3951.9	5093.6	4218.5	4043.7
65°	1722.6	4989.2	9460.4	9813.8	8621.8	4037.4	2033.2	2210.5	1683.6	1605.7
67.5°	475.3	3472.9	6960.8	6510.7	6049.2	2629.2	525.6	394.8	281.7	279.1
70°	119.5	2297.2	4170.7	4298.9	3709.2	1683.6	100.6	47.8	37.7	36.5
72.5°	50.3	988.3	1979.1	2274.6	1898.6	779.6	36.5	13.8	11.3	8.8
75°	6.3	79.2	168.5	255.2	174.8	84.2	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)