

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P528862

Luminaire Tested: **GALN-SA4A-727-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528862
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-727-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11268 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

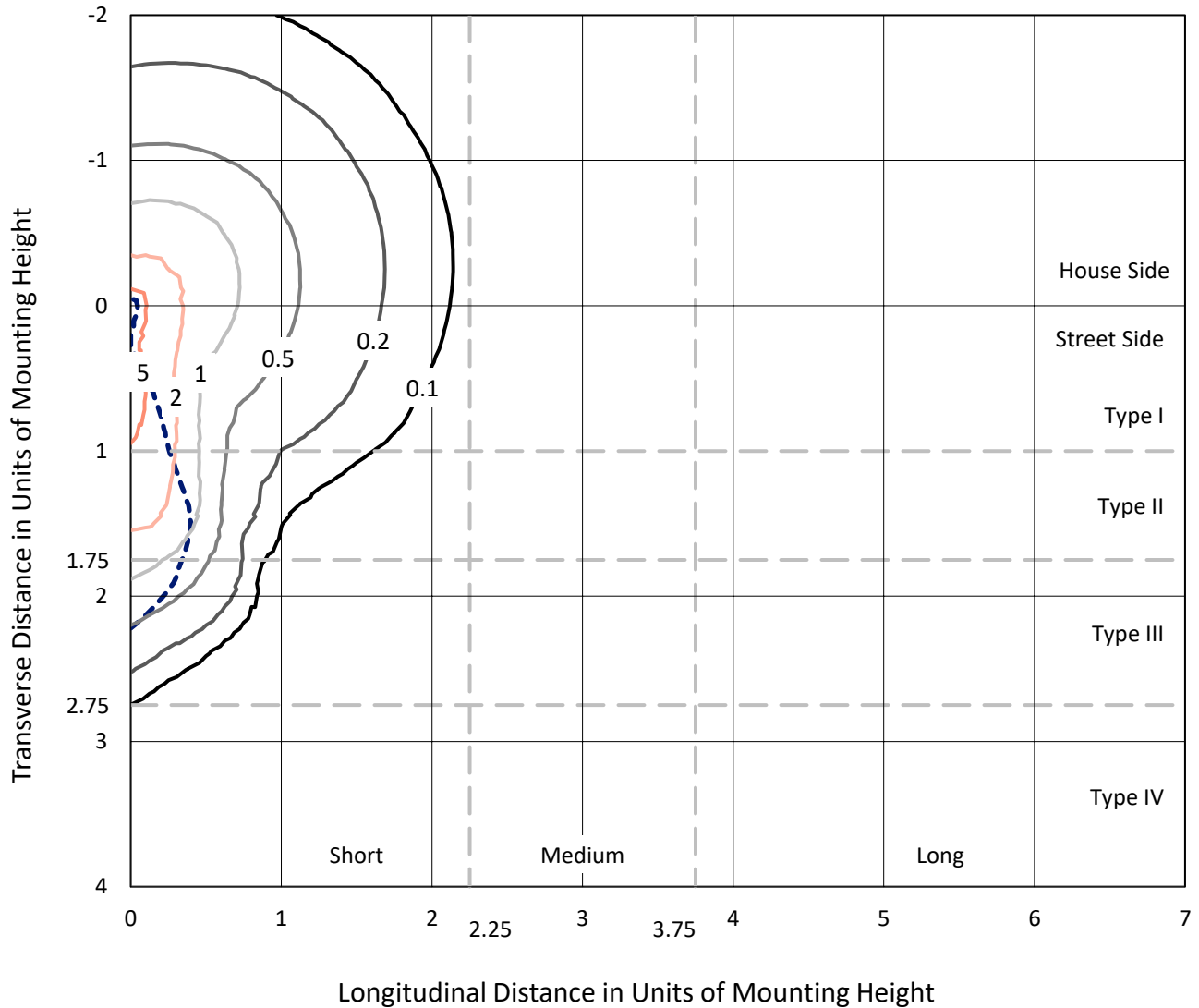
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

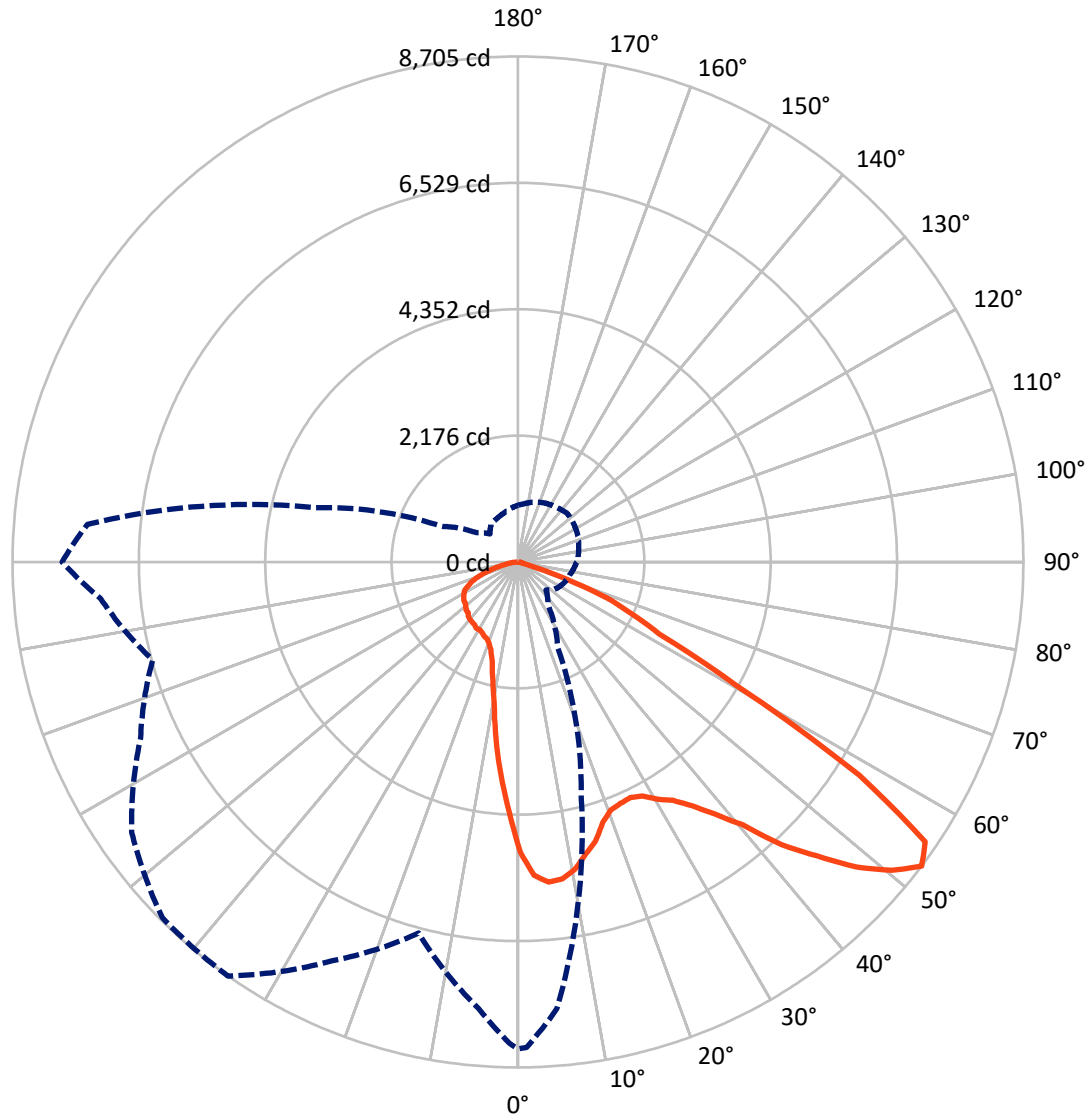
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 325-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3396.8	0.0	3396.8
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	7871.2	0.0	7871.2
	% Fixture	69.9	0.0	69.9
Total	Lumens	11268.0	0.0	11268.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.5	3.4
10°-20°	827.1	7.3
20°-30°	1249.6	11.1
30°-40°	1805.8	16.0
40°-50°	2403.2	21.3
50°-60°	2688.0	23.9
60°-70°	1514.9	13.4
70°-80°	337.7	3.0
80°-90°	60.1	0.5
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°	11268.0	100.0
0°-180°	11268.0	100.0

Coefficient of Utilization



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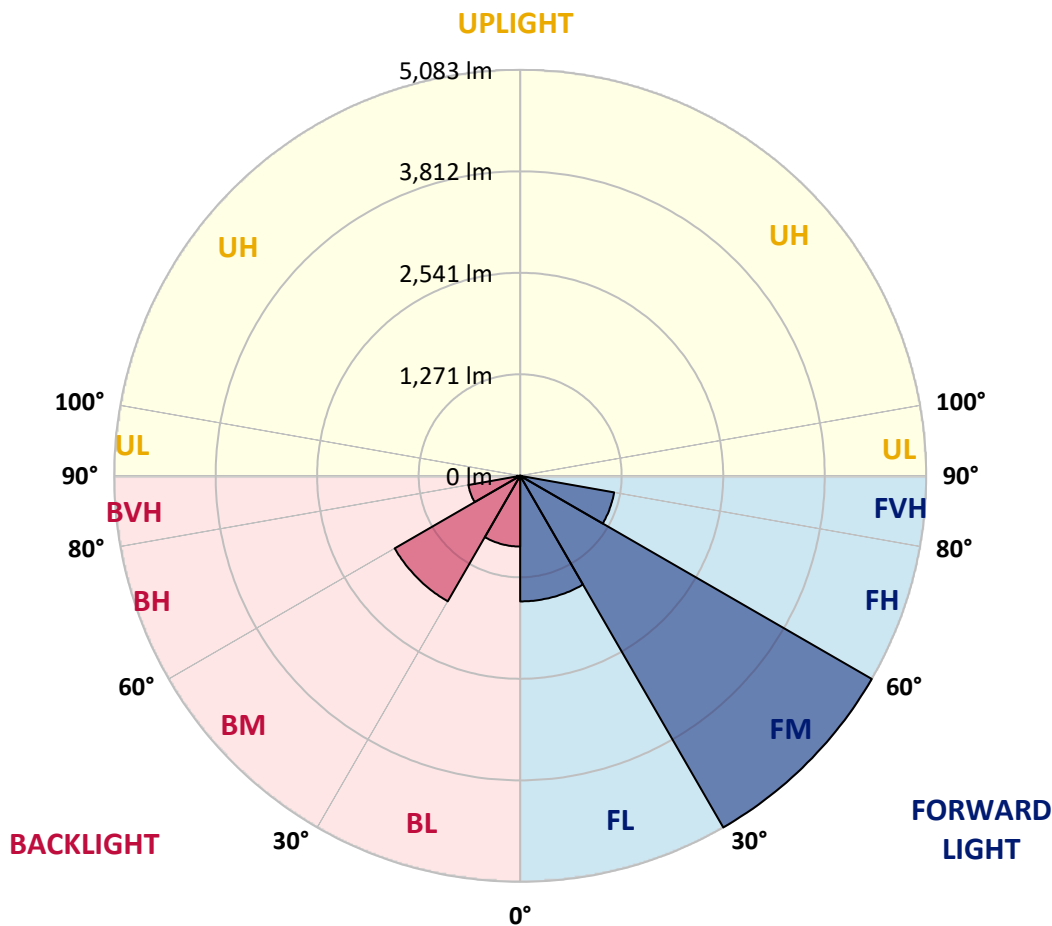
CATALOG NUMBER: GALN-SA4A-727-U-SLR-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1572.4	14.0			
FM (30°-60°)	5082.7	45.1			
FH (60°-80°)	1194.2	10.6			G1/1800
FVH (80°-90°)	21.8	0.2			G1/100
BL (0°-30°)	885.8	7.9	B2/1000		
BM (30°-60°)	1814.2	16.1	B2/2500		
BH (60°-80°)	658.4	5.8	B2/1000		G2/1000
BVH (80°-90°)	38.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5000.8	5000.8	5000.8	5000.8	5000.8	5000.8	5000.8	5000.8	5000.8	5000.8	5000.8
2.5°	5084.1	5165.8	5077.6	4920.8	4809.7	4708.5	4602.3	4581.1	4442.3	4417.8	4316.5
5°	4795.0	4777.1	4669.3	4463.5	4236.5	4030.7	3878.8	3731.8	3632.2	3516.2	3508.1
7.5°	4443.9	4339.4	4277.3	3965.4	3684.5	3361.1	3222.3	2998.5	2928.3	2823.8	2769.9
10°	4130.3	4053.6	3908.2	3596.3	3204.3	2990.4	2841.7	2720.9	2639.2	2531.4	2395.9
12.5°	3975.2	3944.1	3780.8	3297.4	3006.7	2778.0	2673.5	2555.9	2417.1	2244.0	2177.0
15°	4002.9	3898.4	3774.3	3240.2	2838.5	2618.0	2451.4	2304.4	2126.4	1961.5	1865.1
17.5°	4210.3	4130.3	3882.1	3276.2	2774.8	2456.3	2154.2	1937.0	1776.9	1628.3	1561.3
20°	4618.6	4502.7	4223.4	3321.9	2637.6	2230.9	1884.7	1616.9	1445.4	1367.0	1344.1
22.5°	5071.0	5002.4	4556.6	3424.8	2528.2	2021.9	1598.9	1331.0	1267.4	1246.1	1288.6
25°	5621.4	5443.4	5074.3	3593.0	2443.2	1843.9	1357.2	1208.6	1175.9	1197.1	1246.1
27.5°	6039.5	5992.1	5436.9	3751.4	2327.3	1629.9	1221.6	1123.6	1133.4	1154.7	1200.4
30°	6536.0	6295.9	5788.0	3860.8	2222.8	1482.9	1126.9	1100.8	1110.6	1146.5	1169.4
32.5°	6834.9	6745.0	6008.5	4025.8	2101.9	1355.5	1053.4	1028.9	1043.6	1097.5	1151.4
35°	7215.4	7037.4	6281.2	4068.3	2017.0	1304.9	1001.1	983.2	1017.5	1055.0	1115.5
37.5°	7659.6	7537.1	6658.5	4038.9	1971.3	1252.7	957.0	948.9	973.4	1025.6	1095.9
40°	7922.6	7885.0	6856.1	4056.8	1899.4	1206.9	906.4	916.2	966.8	1007.7	1076.3
42.5°	8175.7	7930.7	7148.4	4050.3	1853.7	1144.9	911.3	899.9	939.1	986.4	1051.8
45°	8231.2	7987.9	7217.0	4004.6	1798.1	1084.4	873.8	878.7	926.0	984.8	1027.3
47.5°	8195.3	8015.7	7344.4	3991.5	1745.9	1042.0	818.2	877.0	904.8	952.1	1012.6
50°	8170.8	8161.0	7452.2	4053.6	1675.6	975.0	751.3	855.8	883.6	930.9	996.2
52.5°	8386.4	8365.2	7721.7	4216.9	1620.1	903.2	682.7	801.9	868.9	914.6	978.3
55°	8517.1	8424.0	8183.9	4417.8	1527.0	808.4	635.3	734.9	832.9	873.8	939.1
57.5°	7661.3	7597.6	7403.2	4123.8	1370.2	684.3	576.5	666.3	783.9	847.6	914.6
60°	6374.3	6274.7	5776.6	3504.8	1010.9	532.4	540.6	612.4	770.9	795.4	873.8
62.5°	6010.1	5763.5	5085.7	2820.5	775.8	457.3	485.1	563.4	702.3	743.1	821.5
65°	4768.9	4586.0	3638.7	2036.6	519.4	396.9	442.6	507.9	605.9	685.9	757.8
67.5°	2985.5	2810.7	1941.9	963.6	362.6	339.7	395.2	463.8	543.9	615.7	695.7
70°	1559.7	1368.6	896.6	347.9	249.9	277.6	329.9	395.2	473.6	532.4	594.5
72.5°	581.4	472.0	292.3	150.3	173.1	212.3	267.8	315.2	370.7	442.6	476.9
75°	89.8	76.8	75.1	91.5	117.6	153.5	191.1	238.4	287.4	333.2	356.0
77.5°	42.5	40.8	45.7	60.4	78.4	109.4	138.8	184.5	223.7	253.1	266.2
80°	27.8	26.1	29.4	40.8	58.8	81.7	111.1	142.1	178.0	202.5	199.2
82.5°	16.3	18.0	18.0	27.8	40.8	58.8	80.0	107.8	132.3	153.5	140.5
85°	9.8	8.2	8.2	16.3	27.8	47.4	67.0	45.7	47.4	47.4	53.9
87.5°	3.3	3.3	3.3	1.6	3.3	3.3	4.9	8.2	9.8	11.4	14.7
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°	5000.8	5000.8	5000.8	5000.8	5000.8	5000.8	5000.8	5000.8	5000.8	5000.8	5000.8
2.5°	4313.2	4363.9	4345.9	4282.2	4331.2	4339.4	4306.7	4419.4	4440.6	4406.3	4416.1
5°	3496.6	3509.7	3539.1	3601.2	3645.3	3697.5	3697.5	3700.8	3656.7	3767.8	3735.1
7.5°	2724.1	2732.3	2766.6	2898.9	2936.5	3036.1	3078.6	3049.2	2961.0	2923.4	2954.4
10°	2351.8	2304.4	2293.0	2309.3	2394.2	2436.7	2472.6	2462.8	2448.1	2418.7	2386.1
12.5°	2103.5	2069.2	2041.5	2002.3	2007.2	2048.0	2075.8	2052.9	2059.4	2066.0	2075.8
15°	1834.1	1809.6	1794.9	1736.1	1729.5	1757.3	1767.1	1780.2	1804.7	1806.3	1794.9
17.5°	1548.3	1527.0	1559.7	1592.4	1569.5	1571.1	1589.1	1600.5	1594.0	1564.6	1549.9
20°	1352.3	1375.1	1407.8	1438.8	1463.3	1478.0	1484.6	1466.6	1445.4	1384.9	1383.3
22.5°	1295.1	1324.5	1352.3	1399.6	1422.5	1460.1	1425.8	1384.9	1355.5	1326.1	1291.8
25°	1252.7	1277.1	1332.7	1350.6	1394.7	1425.8	1401.3	1360.4	1309.8	1267.4	1241.2
27.5°	1221.6	1249.4	1285.3	1334.3	1368.6	1386.6	1362.1	1345.7	1293.5	1242.9	1205.3
30°	1202.0	1231.4	1296.7	1337.6	1367.0	1381.7	1339.2	1319.6	1282.0	1239.6	1206.9
32.5°	1189.0	1215.1	1270.6	1322.9	1342.5	1342.5	1349.0	1326.1	1273.9	1202.0	1174.3
35°	1146.5	1182.4	1228.2	1288.6	1324.5	1345.7	1313.1	1286.9	1252.7	1179.2	1128.5
37.5°	1122.0	1146.5	1205.3	1262.5	1293.5	1316.3	1303.3	1257.6	1211.8	1151.4	1110.6
40°	1095.9	1135.1	1187.3	1241.2	1275.5	1298.4	1288.6	1234.7	1179.2	1122.0	1094.2
42.5°	1077.9	1104.0	1157.9	1218.4	1259.2	1303.3	1273.9	1206.9	1167.7	1089.3	1058.3
45°	1063.2	1105.7	1162.8	1187.3	1229.8	1275.5	1223.3	1182.4	1136.7	1079.5	1053.4
47.5°	1045.2	1084.4	1122.0	1187.3	1206.9	1228.2	1218.4	1153.0	1113.8	1051.8	1033.8
50°	1038.7	1053.4	1122.0	1157.9	1185.7	1206.9	1180.8	1131.8	1094.2	1030.5	991.3
52.5°	1012.6	1040.3	1084.4	1131.8	1166.1	1192.2	1149.8	1118.7	1068.1	1001.1	976.6
55°	979.9	996.2	1074.6	1123.6	1141.6	1159.6	1143.2	1092.6	1040.3	971.7	947.2
57.5°	937.4	975.0	1038.7	1107.3	1130.2	1140.0	1113.8	1073.0	1007.7	947.2	908.0
60°	893.4	932.5	1002.8	1058.3	1081.2	1117.1	1077.9	1053.4	978.3	911.3	868.9
62.5°	849.3	893.4	945.6	1015.8	1035.4	1050.1	1040.3	1006.0	945.6	870.5	818.2
65°	797.0	829.7	895.0	930.9	944.0	978.3	944.0	930.9	877.0	805.2	761.1
67.5°	718.6	746.4	803.5	837.8	847.6	862.3	860.7	846.0	785.6	736.6	697.4
70°	628.8	653.3	689.2	730.0	734.9	752.9	736.6	733.3	694.1	627.1	605.9
72.5°	504.7	527.5	574.9	592.8	594.5	601.0	592.8	581.4	571.6	501.4	480.2
75°	387.1	400.1	423.0	439.3	439.3	447.5	442.6	431.2	405.0	360.9	339.7
77.5°	269.5	282.5	311.9	321.7	320.1	323.4	308.7	297.2	258.0	235.2	217.2
80°	196.0	204.1	218.8	225.4	227.0	231.9	213.9	204.1	181.3	155.2	147.0
82.5°	142.1	147.0	148.6	156.8	156.8	148.6	143.7	133.9	117.6	101.3	94.7
85°	58.8	60.4	62.1	71.9	73.5	88.2	81.7	76.8	67.0	57.2	52.3
87.5°	14.7	16.3	21.2	18.0	21.2	21.2	22.9	26.1	26.1	21.2	21.2
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°	5000.8	5000.8	5000.8	5000.8	5000.8	5000.8	5000.8	5000.8	5000.8	5000.8	5000.8
2.5°	4453.7	4466.8	4633.3	4654.6	4736.2	4819.5	4987.7	5108.6	5206.6	5270.3	5288.2
5°	3769.4	3852.7	3929.4	4053.6	4166.3	4326.3	4510.9	4739.5	5026.9	5173.9	5232.7
7.5°	2951.2	3049.2	3160.2	3281.1	3446.0	3733.5	3980.1	4244.6	4612.1	4764.0	4994.3
10°	2408.9	2518.4	2665.4	2758.4	2957.7	3232.1	3519.5	3824.9	4176.1	4394.9	4661.1
12.5°	2129.7	2219.5	2355.1	2551.0	2699.7	2877.7	3091.6	3477.0	3980.1	4187.5	4370.4
15°	1821.0	1920.6	2077.4	2294.6	2472.6	2685.0	2925.0	3344.8	3880.4	4200.5	4355.7
17.5°	1566.2	1638.1	1803.0	1990.9	2195.0	2426.9	2771.5	3338.2	3985.0	4394.9	4648.0
20°	1389.8	1399.6	1489.5	1649.5	1927.2	2229.3	2676.8	3305.6	4319.8	4729.7	5049.8
22.5°	1278.8	1269.0	1270.6	1406.2	1600.5	2034.9	2528.2	3416.6	4700.3	5262.1	5477.7
25°	1223.3	1197.1	1180.8	1210.2	1386.6	1804.7	2415.5	3563.6	5110.2	5701.4	5966.0
27.5°	1193.9	1148.1	1115.5	1120.4	1249.4	1688.7	2345.3	3627.3	5516.9	6313.9	6407.0
30°	1182.4	1125.3	1077.9	1061.6	1146.5	1527.0	2195.0	3736.7	5881.1	6650.3	6730.3
32.5°	1141.6	1071.4	1025.6	1010.9	1045.2	1384.9	2087.2	3815.1	6202.8	7016.2	6988.4
35°	1094.2	1035.4	978.3	950.5	975.0	1293.5	2000.6	3777.6	6581.7	7300.3	7285.6
37.5°	1089.3	1012.6	965.2	919.5	917.8	1180.8	1883.1	3813.5	6823.4	7809.9	7609.0
40°	1046.9	997.9	935.8	898.3	877.0	1123.6	1768.7	3728.6	7177.8	8015.7	7818.0
42.5°	1048.5	975.0	921.1	877.0	855.8	1040.3	1690.3	3705.7	7302.0	8350.5	7916.0
45°	1022.4	950.5	904.8	852.5	841.1	976.6	1615.2	3599.5	7520.8	8366.8	7793.6
47.5°	996.2	932.5	883.6	821.5	795.4	953.8	1556.4	3511.3	7406.5	8213.3	7623.7
50°	978.3	904.8	859.1	815.0	741.5	914.6	1479.7	3490.1	7246.4	8005.9	7308.5
52.5°	947.2	881.9	834.6	800.3	682.7	878.7	1450.3	3614.2	7442.4	7850.7	7217.0
55°	917.8	850.9	790.5	723.5	633.7	783.9	1368.6	3730.2	7728.2	8208.4	7631.9
57.5°	886.8	823.1	757.8	677.8	586.3	685.9	1283.7	3751.4	7192.5	7586.1	7244.8
60°	846.0	764.3	715.3	610.8	535.7	568.3	1017.5	3307.2	5579.0	6335.1	6346.6
62.5°	800.3	712.1	669.6	547.1	483.4	490.0	829.7	2779.7	4525.6	5244.2	5556.1
65°	739.8	654.9	604.3	506.3	445.9	424.6	607.5	2036.6	3437.9	4254.4	4608.8
67.5°	661.4	581.4	517.7	441.0	398.5	364.2	414.8	1146.5	2030.0	2856.4	2964.2
70°	578.1	509.6	442.6	378.9	331.5	307.0	303.8	507.9	970.1	1536.8	1749.1
72.5°	455.7	406.7	352.8	305.4	274.4	238.4	217.2	210.7	328.3	625.5	864.0
75°	326.6	285.8	254.8	223.7	200.9	181.3	165.0	150.3	137.2	156.8	215.6
77.5°	205.8	191.1	166.6	158.4	145.4	140.5	133.9	125.8	116.0	109.4	109.4
80°	138.8	129.0	120.9	119.2	114.3	112.7	114.3	106.2	96.4	88.2	91.5
82.5°	93.1	91.5	89.8	88.2	89.8	91.5	94.7	93.1	84.9	80.0	81.7
85°	55.5	58.8	62.1	65.3	71.9	63.7	52.3	44.1	39.2	35.9	34.3
87.5°	21.2	29.4	26.1	24.5	26.1	24.5	22.9	21.2	18.0	16.3	16.3
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: P528862

CATALOG NUMBER: GALN-SA4A-727-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5000.8	5000.8	5000.8	5000.8	5000.8	5000.8	5000.8	5000.8	5000.8	5000.8
2.5°	5407.5	5440.1	5467.9	5461.4	5404.2	5327.4	5296.4	5138.0	5105.3	5084.1
5°	5481.0	5670.4	5711.2	5686.7	5538.1	5350.3	5167.4	4935.5	4799.9	4795.0
7.5°	5345.4	5579.0	5652.4	5708.0	5510.4	5183.7	4870.2	4522.3	4437.4	4443.9
10°	5000.8	5373.2	5554.5	5611.6	5384.6	5102.1	4667.6	4314.9	4133.6	4130.3
12.5°	4809.7	5102.1	5152.7	5232.7	5165.8	4880.0	4550.0	4154.8	3978.4	3975.2
15°	4639.9	4832.6	4847.3	4960.0	4995.9	4803.2	4581.1	4159.7	4017.6	4002.9
17.5°	4788.5	4654.6	4599.0	4613.7	4719.9	4790.1	4760.7	4437.4	4292.0	4210.3
20°	4888.1	4589.2	4421.0	4437.4	4563.1	4819.5	5028.6	4839.1	4608.8	4618.6
22.5°	5154.3	4599.0	4336.1	4318.1	4517.4	4973.0	5330.7	5347.0	5124.9	5071.0
25°	5552.8	4711.7	4310.0	4305.1	4496.2	5138.0	5683.5	5948.1	5721.0	5621.4
27.5°	5872.9	4888.1	4391.6	4408.0	4563.1	5271.9	5984.0	6335.1	6162.0	6039.5
30°	6153.8	5071.0	4506.0	4430.8	4742.8	5342.1	6113.0	6776.1	6637.3	6536.0
32.5°	6269.8	5330.7	4687.2	4563.1	4891.4	5427.1	6380.8	7204.0	7084.7	6834.9
35°	6465.8	5476.1	4785.2	4775.4	5151.1	5631.2	6506.6	7486.5	7437.5	7215.4
37.5°	6622.6	5623.1	5133.1	5025.3	5507.1	5974.2	6709.1	7876.8	7764.2	7659.6
40°	6743.4	5886.0	5458.1	5600.2	5944.8	6286.1	6895.3	7901.3	8226.3	7922.6
42.5°	6632.4	6121.2	5992.1	6331.9	6658.5	6642.2	6916.5	8090.8	8334.1	8175.7
45°	6604.6	6519.7	6836.5	7145.2	7220.3	6937.8	6764.6	7881.7	8301.5	8231.2
47.5°	6537.6	6911.6	7463.6	7966.7	7852.3	7135.4	6583.4	7844.2	8321.1	8195.3
50°	6514.8	6996.6	7927.5	8417.4	8348.8	7306.9	6498.4	7602.5	8182.2	8170.8
52.5°	6513.1	7171.3	8120.2	8662.4	8704.9	7578.0	6614.4	7725.0	8290.0	8386.4
55°	6586.6	7115.8	8095.7	8526.9	8510.5	7457.1	6627.5	7806.6	8422.3	8517.1
57.5°	6212.6	6374.3	6681.4	7022.7	6934.5	6176.7	5918.7	7217.0	7729.9	7661.3
60°	5365.0	4858.7	4512.5	4496.2	4324.7	4087.9	4844.0	6441.3	6441.3	6374.3
62.5°	4698.7	3189.6	2740.5	2613.1	2735.6	3008.3	4672.5	6264.9	6086.9	6010.1
65°	4109.1	2435.1	1981.1	1945.1	2157.4	2569.0	4225.0	5337.2	5023.7	4768.9
67.5°	2644.1	1783.4	1473.1	1409.4	1665.8	1886.3	2812.3	3282.7	3085.1	2985.5
70°	1705.0	1161.2	819.9	769.2	868.9	1162.8	1796.5	1914.1	1626.7	1559.7
72.5°	806.8	501.4	287.4	236.8	266.2	444.2	710.4	764.3	635.3	581.4
75°	256.4	184.5	117.6	101.3	96.4	114.3	163.3	125.8	91.5	89.8
77.5°	114.3	109.4	93.1	78.4	68.6	57.2	47.4	39.2	40.8	42.5
80°	94.7	86.6	76.8	68.6	57.2	44.1	34.3	26.1	26.1	27.8
82.5°	83.3	75.1	67.0	57.2	49.0	35.9	26.1	18.0	16.3	16.3
85°	35.9	42.5	45.7	49.0	39.2	29.4	18.0	11.4	9.8	9.8
87.5°	14.7	13.1	11.4	9.8	8.2	8.2	6.5	4.9	3.3	3.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)