

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: P529018

Luminaire Tested: **GALN-SA4A-827-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529018
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-827-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 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: 9904 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

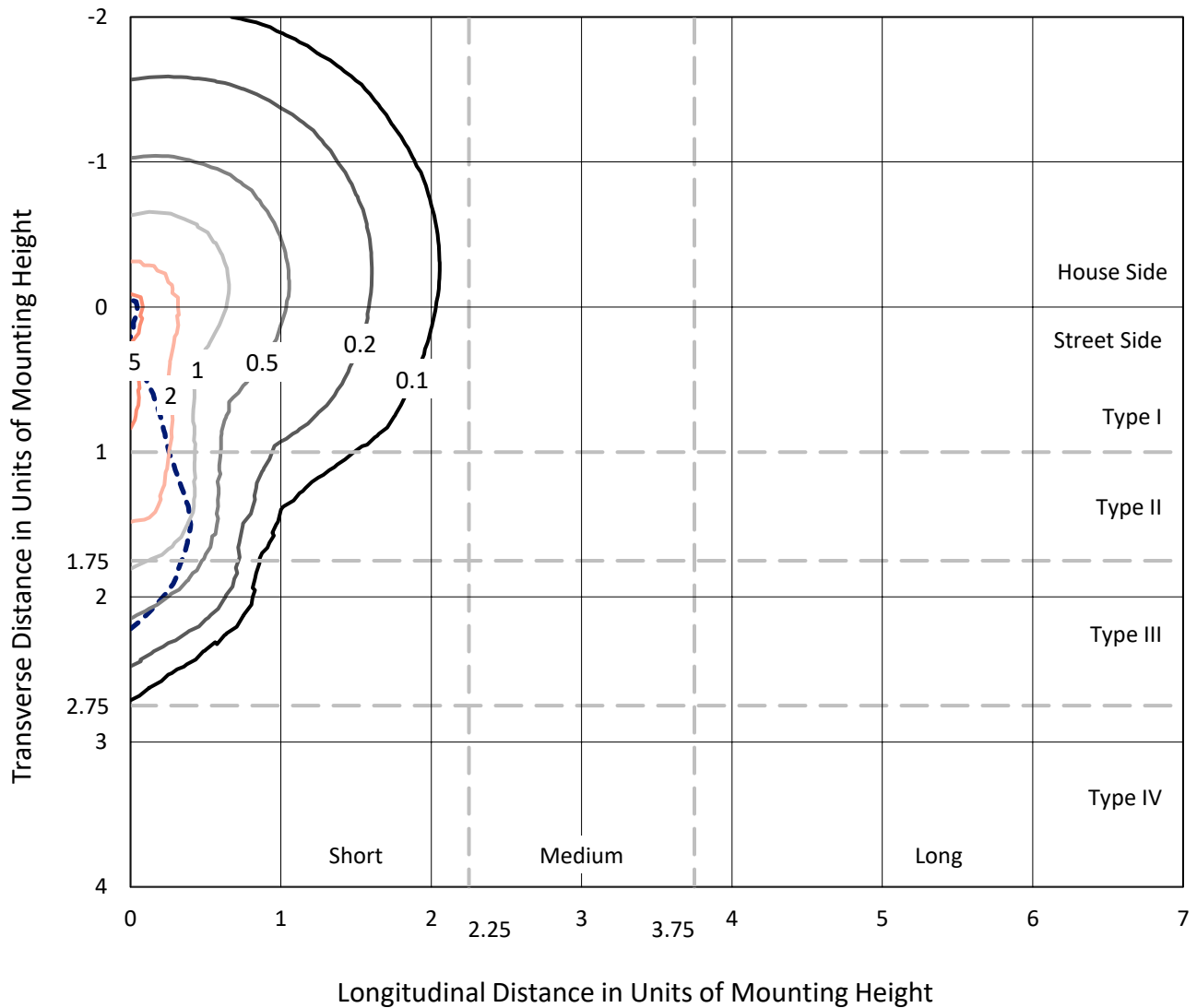
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P529018
 CATALOG NUMBER: GALN-SA4A-827-U-SLR-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

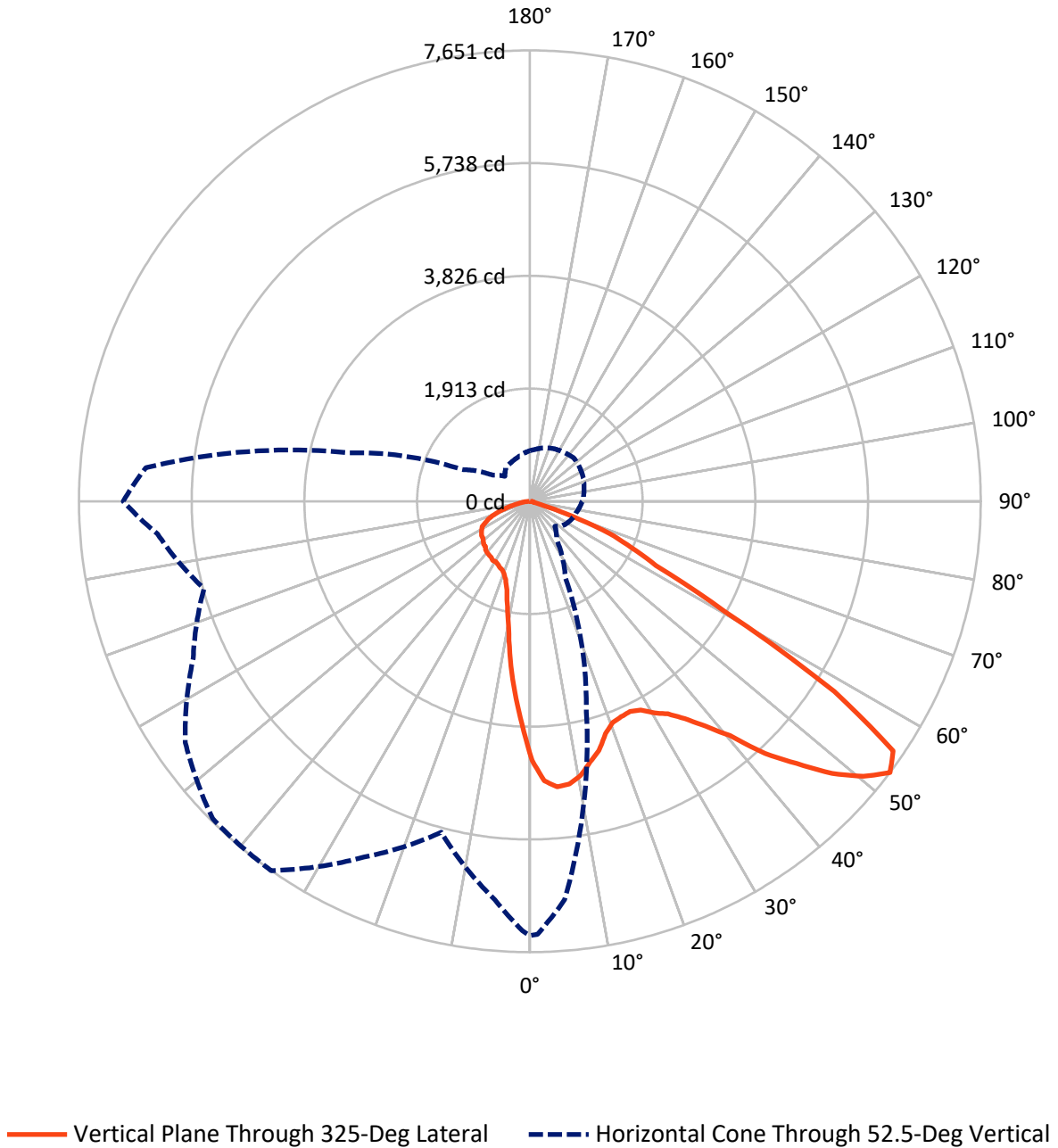
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type III - Short - N/A

REPORT NUMBER: P529018
CATALOG NUMBER: GALN-SA4A-827-U-SLR-GRSWH

Luminous Intensity Polar Plot



REPORT NUMBER: P529018
 CATALOG NUMBER: GALN-SA4A-827-U-SLR-GRSWH

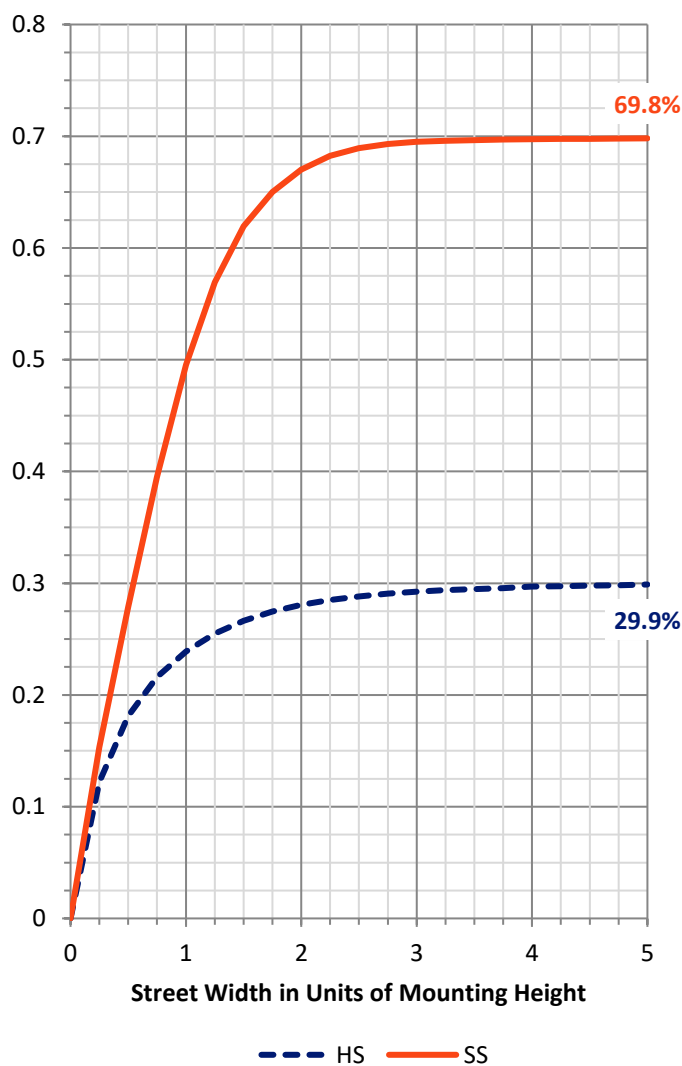
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2985.6	0.0	2985.6
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	6918.4	0.0	6918.4
	% Fixture	69.9	0.0	69.9
Total	Lumens	9904.0	0.0	9904.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.3	3.4
10°-20°	727.0	7.3
20°-30°	1098.4	11.1
30°-40°	1587.2	16.0
40°-50°	2112.3	21.3
50°-60°	2362.6	23.9
60°-70°	1331.6	13.4
70°-80°	296.8	3.0
80°-90°	52.9	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°	9904.0	100.0
0°-180°	9904.0	100.0

Coefficient of Utilization



REPORT NUMBER: P529018

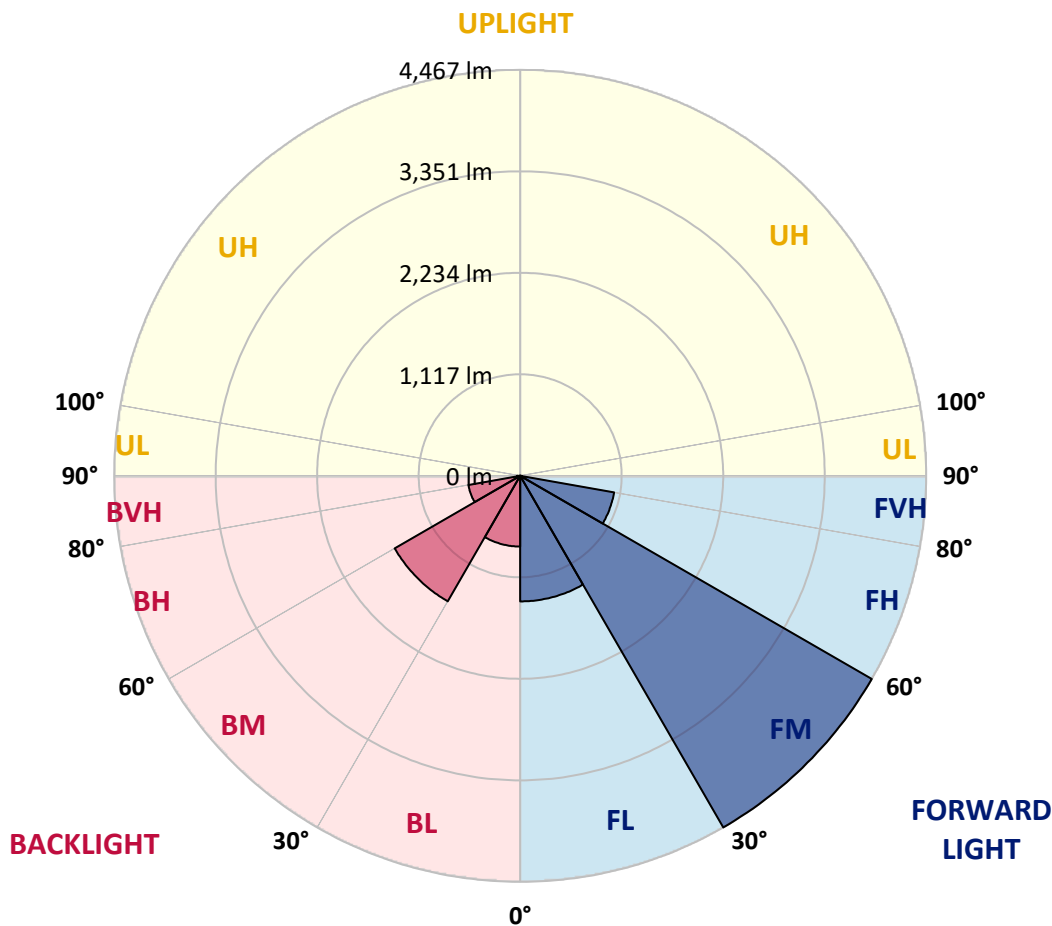
CATALOG NUMBER: GALN-SA4A-827-U-SLR-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1382.1	14.0			
FM (30°-60°)	4467.5	45.1			
FH (60°-80°)	1049.7	10.6			G1/1800
FVH (80°-90°)	19.1	0.2			G1/100
BL (0°-30°)	778.6	7.9	B2/1000		
BM (30°-60°)	1594.6	16.1	B2/2500		
BH (60°-80°)	578.7	5.8	B2/1000		G2/1000
BVH (80°-90°)	33.7	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





REPORT NUMBER: P529018

CATALOG NUMBER: GALN-SA4A-827-U-SLR-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4395.5	4395.5	4395.5	4395.5	4395.5	4395.5	4395.5	4395.5	4395.5	4395.5	4395.5
2.5°	4468.7	4540.4	4462.9	4325.1	4227.5	4138.5	4045.2	4026.5	3904.5	3883.0	3794.0
5°	4214.6	4198.8	4104.1	3923.2	3723.6	3542.8	3409.3	3280.1	3192.5	3090.6	3083.4
7.5°	3906.0	3814.1	3759.5	3485.4	3238.5	2954.2	2832.2	2635.6	2573.8	2482.0	2434.6
10°	3630.3	3562.9	3435.1	3160.9	2816.4	2628.4	2497.7	2391.5	2319.7	2225.0	2105.9
12.5°	3494.0	3466.7	3323.1	2898.2	2642.7	2441.8	2349.9	2246.5	2124.5	1972.4	1913.5
15°	3518.4	3426.5	3317.4	2848.0	2494.9	2301.1	2154.7	2025.5	1869.0	1724.0	1639.3
17.5°	3700.7	3630.3	3412.1	2879.6	2438.9	2159.0	1893.4	1702.5	1561.8	1431.2	1372.3
20°	4059.6	3957.6	3712.2	2919.8	2318.3	1960.9	1656.6	1421.1	1270.4	1201.5	1181.4
22.5°	4457.2	4396.9	4005.0	3010.2	2222.1	1777.1	1405.3	1169.9	1113.9	1095.3	1132.6
25°	4940.9	4784.5	4460.1	3158.1	2147.5	1620.7	1192.9	1062.3	1033.5	1052.2	1095.3
27.5°	5308.4	5266.8	4778.7	3297.3	2045.6	1432.6	1073.7	987.6	996.2	1014.9	1055.1
30°	5744.8	5533.8	5087.4	3393.5	1953.7	1303.4	990.5	967.5	976.1	1007.7	1027.8
32.5°	6007.5	5928.6	5281.2	3538.5	1847.5	1191.5	925.9	904.4	917.3	964.6	1012.0
35°	6342.0	6185.5	5520.9	3575.8	1772.8	1147.0	880.0	864.2	894.3	927.3	980.4
37.5°	6732.4	6624.8	5852.5	3550.0	1732.6	1101.0	841.2	834.0	855.5	901.5	963.2
40°	6963.5	6930.5	6026.2	3565.7	1669.5	1060.8	796.7	805.3	849.8	885.7	946.0
42.5°	7186.0	6970.7	6283.1	3560.0	1629.3	1006.3	801.0	791.0	825.4	867.0	924.5
45°	7234.8	7021.0	6343.4	3519.8	1580.5	953.2	768.0	772.3	813.9	865.6	902.9
47.5°	7203.3	7045.4	6455.4	3508.3	1534.5	915.8	719.2	770.9	795.3	836.9	890.0
50°	7181.7	7173.1	6550.1	3562.9	1472.8	857.0	660.3	752.2	776.6	818.2	875.6
52.5°	7371.2	7352.6	6787.0	3706.4	1424.0	793.8	600.0	704.8	763.7	803.9	859.9
55°	7486.1	7404.2	7193.2	3883.0	1342.2	710.6	558.4	646.0	732.1	768.0	825.4
57.5°	6733.9	6677.9	6507.1	3624.6	1204.4	601.5	506.7	585.7	689.0	745.0	803.9
60°	5602.7	5515.1	5077.3	3080.6	888.6	468.0	475.1	538.3	677.5	699.1	768.0
62.5°	5282.6	5065.8	4470.1	2479.1	681.9	401.9	426.3	495.2	617.3	653.1	722.0
65°	4191.6	4030.8	3198.3	1790.1	456.5	348.8	389.0	446.4	532.6	602.9	666.1
67.5°	2624.1	2470.5	1706.8	846.9	318.7	298.6	347.4	407.7	478.0	541.2	611.5
70°	1370.9	1202.9	788.1	305.8	219.6	244.0	290.0	347.4	416.3	468.0	522.5
72.5°	511.0	414.9	257.0	132.1	152.2	186.6	235.4	277.0	325.9	389.0	419.2
75°	79.0	67.5	66.0	80.4	103.4	134.9	168.0	209.6	252.6	292.8	312.9
77.5°	37.3	35.9	40.2	53.1	68.9	96.2	122.0	162.2	196.7	222.5	234.0
80°	24.4	23.0	25.8	35.9	51.7	71.8	97.6	124.9	156.5	178.0	175.1
82.5°	14.4	15.8	15.8	24.4	35.9	51.7	70.3	94.7	116.3	134.9	123.5
85°	8.6	7.2	7.2	14.4	24.4	41.6	58.9	40.2	41.6	41.6	47.4
87.5°	2.9	2.9	2.9	1.4	2.9	2.9	4.3	7.2	8.6	10.0	12.9
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: P529018

CATALOG NUMBER: GALN-SA4A-827-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4395.5	4395.5	4395.5	4395.5	4395.5	4395.5	4395.5	4395.5	4395.5	4395.5	4395.5
2.5°	3791.1	3835.6	3819.8	3763.8	3806.9	3814.1	3785.4	3884.4	3903.1	3872.9	3881.6
5°	3073.4	3084.9	3110.7	3165.2	3204.0	3249.9	3249.9	3252.8	3214.1	3311.7	3283.0
7.5°	2394.4	2401.6	2431.7	2548.0	2581.0	2668.6	2705.9	2680.1	2602.5	2569.5	2596.8
10°	2067.1	2025.5	2015.4	2029.8	2104.4	2141.7	2173.3	2164.7	2151.8	2126.0	2097.2
12.5°	1848.9	1818.8	1794.4	1759.9	1764.2	1800.1	1824.5	1804.4	1810.1	1815.9	1824.5
15°	1612.1	1590.5	1577.6	1525.9	1520.2	1544.6	1553.2	1564.7	1586.2	1587.6	1577.6
17.5°	1360.8	1342.2	1370.9	1399.6	1379.5	1380.9	1396.7	1406.8	1401.0	1375.2	1362.3
20°	1188.6	1208.7	1237.4	1264.7	1286.2	1299.1	1304.9	1289.1	1270.4	1217.3	1215.9
22.5°	1138.3	1164.2	1188.6	1230.2	1250.3	1283.3	1253.2	1217.3	1191.5	1165.6	1135.5
25°	1101.0	1122.5	1171.4	1187.1	1225.9	1253.2	1231.6	1195.8	1151.3	1113.9	1091.0
27.5°	1073.7	1098.1	1129.7	1172.8	1202.9	1218.7	1197.2	1182.8	1136.9	1092.4	1059.4
30°	1056.5	1082.4	1139.8	1175.7	1201.5	1214.4	1177.1	1159.9	1126.9	1089.5	1060.8
32.5°	1045.0	1068.0	1116.8	1162.7	1180.0	1180.0	1185.7	1165.6	1119.7	1056.5	1032.1
35°	1007.7	1039.3	1079.5	1132.6	1164.2	1182.8	1154.1	1131.2	1101.0	1036.4	991.9
37.5°	986.2	1007.7	1059.4	1109.6	1136.9	1157.0	1145.5	1105.3	1065.1	1012.0	976.1
40°	963.2	997.7	1043.6	1091.0	1121.1	1141.2	1132.6	1085.2	1036.4	986.2	961.8
42.5°	947.4	970.4	1017.8	1070.9	1106.8	1145.5	1119.7	1060.8	1026.4	957.5	930.2
45°	934.5	971.8	1022.1	1043.6	1080.9	1121.1	1075.2	1039.3	999.1	948.9	925.9
47.5°	918.7	953.2	986.2	1043.6	1060.8	1079.5	1070.9	1013.5	979.0	924.5	908.7
50°	913.0	925.9	986.2	1017.8	1042.2	1060.8	1037.9	994.8	961.8	905.8	871.3
52.5°	890.0	914.4	953.2	994.8	1024.9	1047.9	1010.6	983.3	938.8	880.0	858.4
55°	861.3	875.6	944.5	987.6	1003.4	1019.2	1004.8	960.3	914.4	854.1	832.6
57.5°	824.0	857.0	913.0	973.3	993.4	1002.0	979.0	943.1	885.7	832.6	798.1
60°	785.2	819.7	881.4	930.2	950.3	981.9	947.4	925.9	859.9	801.0	763.7
62.5°	746.5	785.2	831.1	892.9	910.1	923.0	914.4	884.3	831.1	765.1	719.2
65°	700.5	729.2	786.6	818.2	829.7	859.9	829.7	818.2	770.9	707.7	668.9
67.5°	631.6	656.0	706.3	736.4	745.0	757.9	756.5	743.6	690.5	647.4	613.0
70°	552.7	574.2	605.8	641.7	646.0	661.8	647.4	644.5	610.1	551.2	532.6
72.5°	443.6	463.7	505.3	521.1	522.5	528.3	521.1	511.0	502.4	440.7	422.0
75°	340.2	351.7	371.8	386.1	386.1	393.3	389.0	379.0	356.0	317.2	298.6
77.5°	236.9	248.3	274.2	282.8	281.4	284.2	271.3	261.3	226.8	206.7	190.9
80°	172.3	179.4	192.4	198.1	199.5	203.8	188.0	179.4	159.3	136.4	129.2
82.5°	124.9	129.2	130.6	137.8	137.8	130.6	126.3	117.7	103.4	89.0	83.3
85°	51.7	53.1	54.5	63.2	64.6	77.5	71.8	67.5	58.9	50.2	45.9
87.5°	12.9	14.4	18.7	15.8	18.7	18.7	20.1	23.0	23.0	18.7	18.7
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: P529018

CATALOG NUMBER: GALN-SA4A-827-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4395.5	4395.5	4395.5	4395.5	4395.5	4395.5	4395.5	4395.5	4395.5	4395.5	4395.5
2.5°	3914.6	3926.1	4072.5	4091.1	4162.9	4236.1	4384.0	4490.2	4576.3	4632.3	4648.1
5°	3313.1	3386.3	3453.8	3562.9	3661.9	3802.6	3964.8	4165.8	4418.4	4547.6	4599.3
7.5°	2593.9	2680.1	2777.7	2883.9	3028.9	3281.5	3498.3	3730.8	4053.8	4187.3	4389.7
10°	2117.3	2213.5	2342.7	2424.5	2599.7	2840.8	3093.5	3361.9	3670.5	3862.9	4096.9
12.5°	1871.9	1950.8	2070.0	2242.2	2372.9	2529.3	2717.4	3056.1	3498.3	3680.6	3841.4
15°	1600.6	1688.1	1825.9	2016.9	2173.3	2359.9	2571.0	2939.9	3410.7	3692.1	3828.4
17.5°	1376.6	1439.8	1584.8	1749.9	1929.3	2133.1	2436.0	2934.1	3502.6	3862.9	4085.4
20°	1221.6	1230.2	1309.2	1449.8	1693.9	1959.4	2352.8	2905.4	3796.9	4157.2	4438.5
22.5°	1124.0	1115.4	1116.8	1236.0	1406.8	1788.6	2222.1	3003.0	4131.3	4625.1	4814.6
25°	1075.2	1052.2	1037.9	1063.7	1218.7	1586.2	2123.1	3132.2	4491.6	5011.3	5243.8
27.5°	1049.3	1009.1	980.4	984.7	1098.1	1484.3	2061.4	3188.2	4849.1	5549.6	5631.4
30°	1039.3	989.0	947.4	933.1	1007.7	1342.2	1929.3	3284.4	5169.2	5845.3	5915.6
32.5°	1003.4	941.7	901.5	888.6	918.7	1217.3	1834.6	3353.3	5452.0	6166.8	6142.4
35°	961.8	910.1	859.9	835.5	857.0	1136.9	1758.5	3320.3	5785.0	6416.6	6403.7
37.5°	957.5	890.0	848.4	808.2	806.7	1037.9	1655.1	3351.9	5997.5	6864.5	6687.9
40°	920.1	877.1	822.5	789.5	770.9	987.6	1554.6	3277.2	6309.0	7045.4	6871.7
42.5°	921.6	857.0	809.6	770.9	752.2	914.4	1485.7	3257.1	6418.1	7339.6	6957.8
45°	898.6	835.5	795.3	749.3	739.3	858.4	1419.7	3163.8	6610.4	7354.0	6850.1
47.5°	875.6	819.7	776.6	722.0	699.1	838.3	1368.0	3086.3	6509.9	7219.1	6700.8
50°	859.9	795.3	755.1	716.3	651.7	803.9	1300.5	3067.6	6369.2	7036.7	6423.8
52.5°	832.6	775.2	733.5	703.4	600.0	772.3	1274.7	3176.7	6541.5	6900.4	6343.4
55°	806.7	747.9	694.8	635.9	557.0	689.0	1202.9	3278.6	6792.7	7214.7	6708.0
57.5°	779.5	723.5	666.1	595.7	515.3	602.9	1128.3	3297.3	6321.9	6667.8	6367.8
60°	743.6	671.8	628.7	536.9	470.8	499.5	894.3	2906.9	4903.6	5568.2	5578.3
62.5°	703.4	625.9	588.5	480.9	424.9	430.6	729.2	2443.2	3977.7	4609.3	4883.5
65°	650.3	575.6	531.1	445.0	391.9	373.2	534.0	1790.1	3021.7	3739.4	4050.9
67.5°	581.4	511.0	455.0	387.6	350.3	320.1	364.6	1007.7	1784.3	2510.7	2605.4
70°	508.2	447.9	389.0	333.0	291.4	269.9	267.0	446.4	852.7	1350.8	1537.4
72.5°	400.5	357.4	310.1	268.4	241.2	209.6	190.9	185.2	288.5	549.8	759.4
75°	287.1	251.2	223.9	196.7	176.6	159.3	145.0	132.1	120.6	137.8	189.5
77.5°	180.9	168.0	146.4	139.2	127.8	123.5	117.7	110.5	101.9	96.2	96.2
80°	122.0	113.4	106.2	104.8	100.5	99.0	100.5	93.3	84.7	77.5	80.4
82.5°	81.8	80.4	79.0	77.5	79.0	80.4	83.3	81.8	74.6	70.3	71.8
85°	48.8	51.7	54.5	57.4	63.2	56.0	45.9	38.8	34.5	31.6	30.1
87.5°	18.7	25.8	23.0	21.5	23.0	21.5	20.1	18.7	15.8	14.4	14.4
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: P529018

CATALOG NUMBER: GALN-SA4A-827-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4395.5	4395.5	4395.5	4395.5	4395.5	4395.5	4395.5	4395.5	4395.5	4395.5
2.5°	4752.9	4781.6	4806.0	4800.3	4750.0	4682.6	4655.3	4516.0	4487.3	4468.7
5°	4817.5	4984.0	5019.9	4998.4	4867.7	4702.6	4541.9	4338.0	4218.9	4214.6
7.5°	4698.3	4903.6	4968.2	5017.0	4843.3	4556.2	4280.6	3974.9	3900.2	3906.0
10°	4395.5	4722.7	4882.1	4932.3	4732.8	4484.5	4102.6	3792.6	3633.2	3630.3
12.5°	4227.5	4484.5	4529.0	4599.3	4540.4	4289.2	3999.3	3651.9	3496.8	3494.0
15°	4078.2	4247.6	4260.5	4359.6	4391.1	4221.8	4026.5	3656.2	3531.3	3518.4
17.5°	4208.8	4091.1	4042.3	4055.2	4148.6	4210.3	4184.4	3900.2	3772.5	3700.7
20°	4296.4	4033.7	3885.9	3900.2	4010.7	4236.1	4419.9	4253.3	4050.9	4059.6
22.5°	4530.4	4042.3	3811.2	3795.4	3970.6	4371.1	4685.4	4699.8	4504.6	4457.2
25°	4880.7	4141.4	3788.2	3783.9	3951.9	4516.0	4995.5	5228.0	5028.5	4940.9
27.5°	5162.0	4296.4	3860.0	3874.4	4010.7	4633.7	5259.6	5568.2	5416.1	5308.4
30°	5408.9	4457.2	3960.5	3894.5	4168.6	4695.5	5373.0	5955.8	5833.8	5744.8
32.5°	5510.8	4685.4	4119.8	4010.7	4299.3	4770.1	5608.4	6331.9	6227.1	6007.5
35°	5683.1	4813.2	4206.0	4197.4	4527.5	4949.6	5719.0	6580.3	6537.2	6342.0
37.5°	5820.9	4942.4	4511.7	4417.0	4840.5	5251.0	5897.0	6923.3	6824.3	6732.4
40°	5927.1	5173.5	4797.4	4922.3	5225.2	5525.2	6060.6	6944.9	7230.5	6963.5
42.5°	5829.5	5380.2	5266.8	5565.4	5852.5	5838.1	6079.3	7111.4	7325.3	7186.0
45°	5805.1	5730.5	6008.9	6280.2	6346.3	6097.9	5945.8	6927.7	7296.6	7234.8
47.5°	5746.2	6075.0	6560.2	7002.3	6901.8	6271.6	5786.4	6894.6	7313.8	7203.3
50°	5726.2	6149.6	6967.8	7398.5	7338.2	6422.4	5711.8	6682.2	7191.8	7181.7
52.5°	5724.7	6303.2	7137.2	7613.8	7651.1	6660.7	5813.7	6789.8	7286.5	7371.2
55°	5789.3	6254.4	7115.7	7494.7	7480.3	6554.4	5825.2	6861.6	7402.8	7486.1
57.5°	5460.6	5602.7	5872.6	6172.6	6095.1	5429.0	5202.2	6343.4	6794.2	6733.9
60°	4715.6	4270.6	3966.2	3951.9	3801.2	3593.0	4257.6	5661.6	5661.6	5602.7
62.5°	4129.9	2803.5	2408.7	2296.8	2404.4	2644.2	4106.9	5506.5	5350.1	5282.6
65°	3611.7	2140.3	1741.2	1709.7	1896.3	2258.0	3713.6	4691.2	4415.6	4191.6
67.5°	2324.1	1567.5	1294.8	1238.8	1464.2	1658.0	2471.9	2885.3	2711.6	2624.1
70°	1498.6	1020.6	720.6	676.1	763.7	1022.1	1579.0	1682.4	1429.7	1370.9
72.5°	709.1	440.7	252.6	208.1	234.0	390.5	624.4	671.8	558.4	511.0
75°	225.4	162.2	103.4	89.0	84.7	100.5	143.5	110.5	80.4	79.0
77.5°	100.5	96.2	81.8	68.9	60.3	50.2	41.6	34.5	35.9	37.3
80°	83.3	76.1	67.5	60.3	50.2	38.8	30.1	23.0	23.0	24.4
82.5°	73.2	66.0	58.9	50.2	43.1	31.6	23.0	15.8	14.4	14.4
85°	31.6	37.3	40.2	43.1	34.5	25.8	15.8	10.0	8.6	8.6
87.5°	12.9	11.5	10.0	8.6	7.2	7.2	5.7	4.3	2.9	2.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)