

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: P527613

Luminaire Tested: **GALN-SA2C-827-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527613
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-827-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5746 lumens
Efficiency: N/A
Efficacy: 53.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

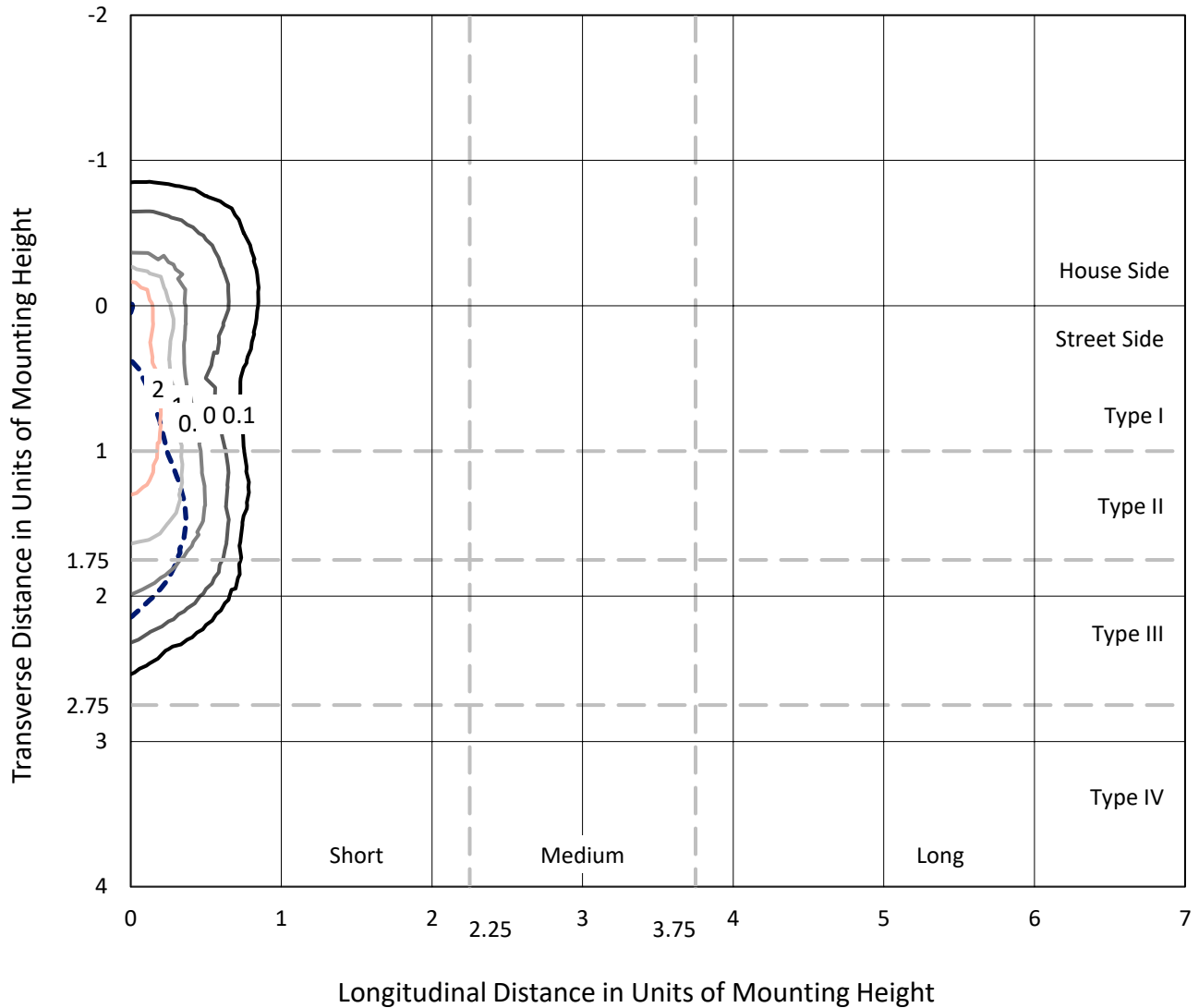
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P527613
 CATALOG NUMBER: GALN-SA2C-827-U-SLR-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

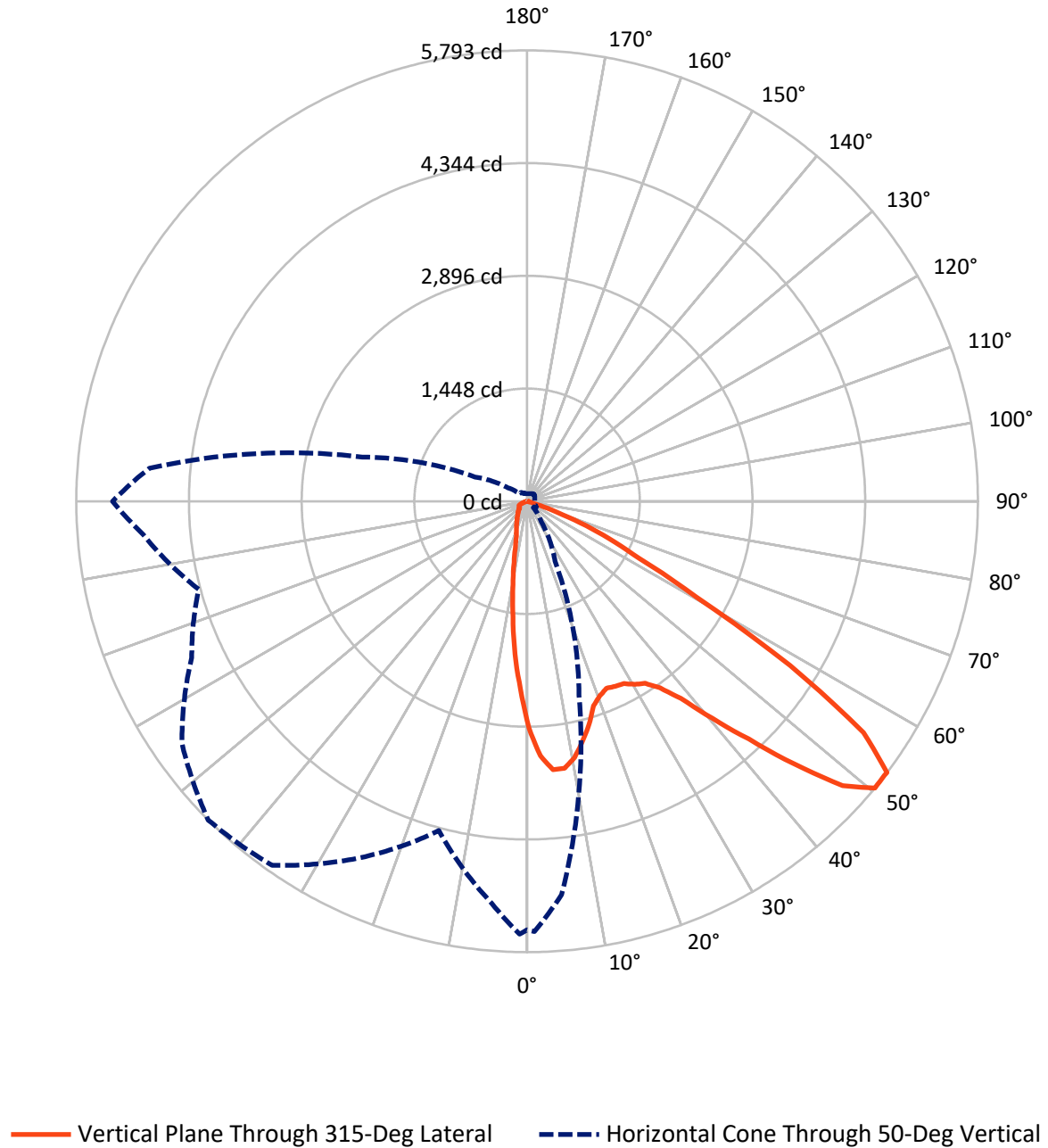
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type III - Short - N/A

REPORT NUMBER: P527613
CATALOG NUMBER: GALN-SA2C-827-U-SLR-GRSBK

Luminous Intensity Polar Plot



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 CATALOG NUMBER: GALN-SA2C-827-U-SLR-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1150.9	0.0	1150.9
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	4595.1	0.0	4595.1
	% Fixture	80.0	0.0	80.0
Total	Lumens	5746.0	0.0	5746.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.4	3.7
10°-20°	422.1	7.3
20°-30°	634.2	11.0
30°-40°	951.9	16.6
40°-50°	1337.8	23.3
50°-60°	1443.0	25.1
60°-70°	670.0	11.7
70°-80°	63.0	1.1
80°-90°	11.6	0.2
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°	5746.0	100.0
0°-180°	5746.0	100.0

Coefficient of Utilization

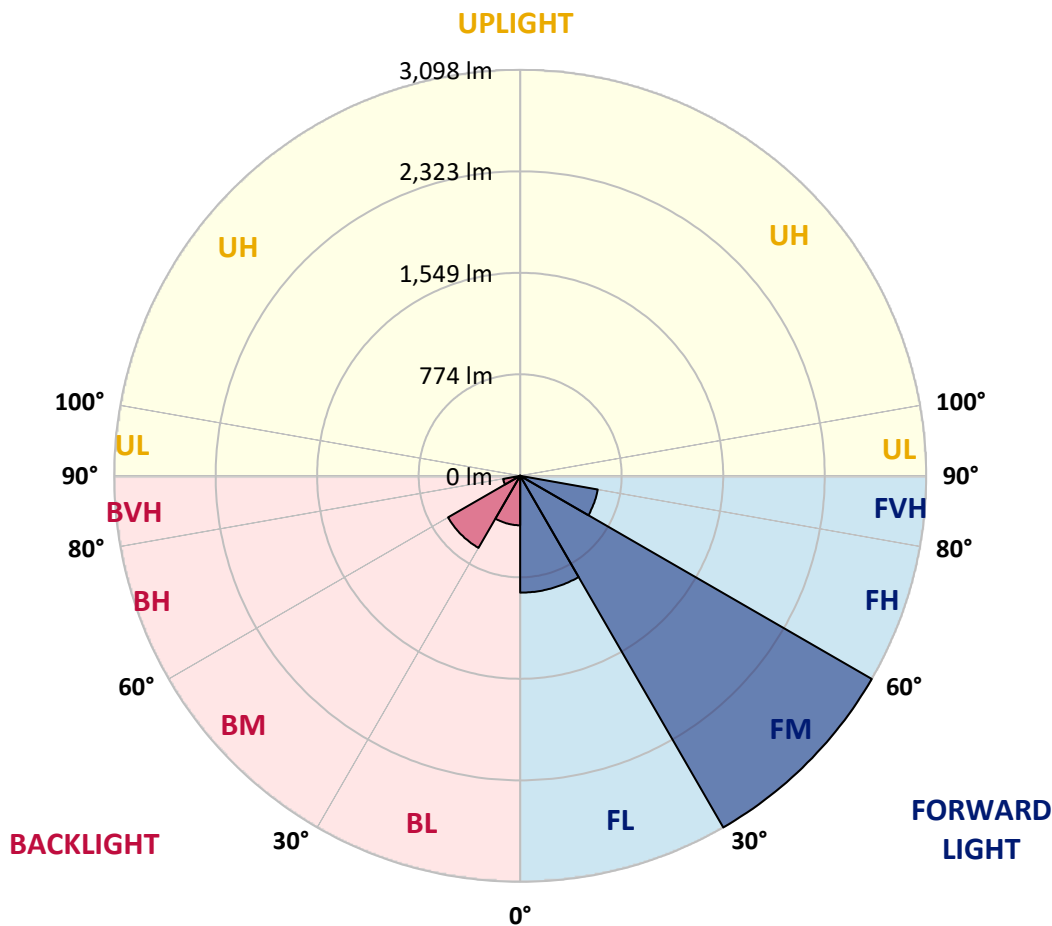


REPORT NUMBER: P527613
 CATALOG NUMBER: GALN-SA2C-827-U-SLR-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	891.4	15.5			
FM (30°-60°)	3097.5	53.9			
FH (60°-80°)	600.9	10.5			G0/660
FVH (80°-90°)	5.2	0.1			G0/10
BL (0°-30°)	377.2	6.6	B1/500		
BM (30°-60°)	635.1	11.1	B1/1000		
BH (60°-80°)	132.2	2.3	B1/500		G1/500
BVH (80°-90°)	6.4	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type III Short





REPORT NUMBER: P527613

CATALOG NUMBER: GALN-SA2C-827-U-SLR-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2913.9	2913.9	2913.9	2913.9	2913.9	2913.9	2913.9	2913.9	2913.9	2913.9	2913.9
2.5°	3029.1	2982.3	2923.1	2874.0	2801.1	2654.0	2614.1	2566.2	2526.3	2472.8	2397.5
5°	2754.3	2739.5	2712.2	2527.5	2394.1	2216.2	2070.3	2008.8	1927.8	1861.7	1813.8
7.5°	2544.6	2485.3	2398.6	2212.8	1999.6	1809.2	1647.4	1552.7	1445.6	1409.1	1344.1
10°	2320.0	2333.7	2206.0	1944.9	1687.3	1533.4	1433.0	1341.8	1244.9	1181.1	1088.7
12.5°	2248.2	2203.7	2105.7	1783.0	1563.0	1419.4	1297.4	1184.5	1081.9	979.3	890.4
15°	2294.9	2226.5	2089.7	1748.8	1467.2	1288.2	1135.5	982.7	888.1	757.0	664.6
17.5°	2462.5	2407.8	2224.2	1785.3	1418.2	1162.8	936.0	778.6	633.9	515.3	468.6
20°	2741.8	2664.3	2434.0	1832.0	1345.2	1011.2	759.3	565.5	428.7	378.5	352.3
22.5°	3015.4	2973.2	2682.5	1922.1	1280.3	876.7	570.0	380.8	320.4	311.2	294.1
25°	3536.4	3409.9	3062.2	2085.1	1230.1	750.1	429.8	306.7	271.3	264.5	266.8
27.5°	3846.5	3740.5	3413.3	2193.4	1174.2	653.2	363.7	281.6	257.6	242.8	237.1
30°	4144.1	4020.9	3587.7	2257.3	1054.5	550.6	322.6	270.2	264.5	242.8	236.0
32.5°	4373.2	4252.4	3839.7	2353.0	1005.5	484.5	265.6	210.9	196.1	193.8	214.3
35°	4724.3	4595.5	4055.1	2405.5	967.9	450.3	230.3	188.1	171.0	164.2	165.3
37.5°	5051.5	4963.7	4254.6	2426.0	928.0	440.1	206.3	168.7	153.9	149.3	148.2
40°	5325.1	5129.0	4443.9	2447.7	910.9	420.7	191.5	153.9	143.6	136.8	136.8
42.5°	5450.5	5251.0	4655.9	2435.1	906.3	389.9	191.5	141.4	133.4	126.5	125.4
45°	5423.2	5342.2	4750.6	2429.4	906.3	359.1	174.4	137.9	126.5	117.4	115.1
47.5°	5493.9	5387.8	4869.1	2453.4	888.1	337.5	147.1	144.8	119.7	108.3	106.0
50°	5506.4	5526.9	5075.5	2577.6	848.2	310.1	115.1	142.5	115.1	98.0	95.8
52°	5588.5	5460.8	5138.2	2643.8	806.0	289.6	96.9	122.0	110.6	91.2	88.9
52.5°	5475.6	5558.8	5153.0	2667.7	810.6	275.9	93.5	119.7	108.3	91.2	85.5
55°	5349.1	5428.9	5092.6	2719.0	743.3	216.6	73.0	86.6	98.0	79.8	76.4
57.5°	4649.1	4730.0	4425.6	2489.9	605.4	152.8	60.4	65.0	86.6	74.1	70.7
60°	4132.7	4074.5	3714.3	2077.2	429.8	85.5	47.9	50.2	94.6	68.4	67.3
62.5°	3777.0	3652.7	3104.3	1604.0	262.2	57.0	37.6	38.8	73.0	63.8	63.8
65°	2794.2	2655.2	2062.3	970.2	128.8	39.9	28.5	30.8	45.6	54.7	54.7
67.5°	1594.9	1541.3	996.4	437.8	53.6	25.1	21.7	23.9	35.3	44.5	42.2
70°	733.0	657.8	383.1	92.3	25.1	17.1	17.1	19.4	28.5	33.1	30.8
72.5°	214.3	202.9	93.5	14.8	10.3	10.3	11.4	14.8	21.7	25.1	22.8
75°	16.0	10.3	6.8	4.6	4.6	6.8	9.1	14.8	21.7	23.9	19.4
77.5°	1.1	2.3	1.1	1.1	3.4	6.8	10.3	18.2	28.5	29.6	21.7
80°	1.1	1.1	0.0	1.1	3.4	6.8	11.4	20.5	31.9	34.2	18.2
82.5°	0.0	0.0	0.0	1.1	4.6	9.1	13.7	21.7	29.6	36.5	19.4
85°	0.0	0.0	0.0	1.1	6.8	12.5	16.0	5.7	3.4	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: P527613

CATALOG NUMBER: GALN-SA2C-827-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2913.9	2913.9	2913.9	2913.9	2913.9	2913.9	2913.9	2913.9	2913.9	2913.9	2913.9
2.5°	2451.1	2421.4	2410.0	2420.3	2416.9	2413.5	2476.2	2462.5	2460.2	2480.7	2476.2
5°	1840.0	1787.6	1931.2	1873.1	1933.5	1970.0	1976.8	1980.3	2022.4	1978.0	2036.1
7.5°	1311.0	1324.7	1323.6	1362.3	1431.9	1493.5	1529.9	1501.4	1499.2	1493.5	1468.4
10°	1047.7	1023.8	1019.2	1010.1	1031.7	1084.2	1128.6	1093.3	1068.2	1102.4	1092.2
12.5°	856.2	823.1	804.9	768.4	769.5	804.9	804.9	804.9	830.0	849.3	864.2
15°	656.7	629.3	629.3	592.8	584.8	586.0	604.2	606.5	646.4	657.8	663.5
17.5°	459.4	444.6	461.7	476.5	467.4	469.7	476.5	478.8	484.5	480.0	491.4
20°	353.4	351.1	355.7	381.9	401.3	412.7	404.7	393.3	386.5	370.5	370.5
22.5°	299.8	304.4	312.4	334.0	359.1	366.0	356.8	330.6	310.1	307.8	309.0
25°	266.8	271.3	283.9	297.6	311.2	322.6	313.5	294.1	282.7	272.5	272.5
27.5°	246.2	248.5	255.4	265.6	277.0	286.2	282.7	272.5	259.9	255.4	245.1
30°	230.3	233.7	241.7	244.0	254.2	258.8	253.1	250.8	242.8	237.1	233.7
32.5°	222.3	221.2	226.9	229.1	230.3	233.7	226.9	230.3	229.1	220.0	216.6
35°	167.6	176.7	191.5	204.1	207.5	212.0	210.9	206.3	193.8	183.5	171.0
37.5°	150.5	156.2	164.2	174.4	188.1	193.8	191.5	180.1	165.3	158.5	156.2
40°	139.1	142.5	149.3	156.2	169.9	180.1	172.1	161.9	150.5	144.8	141.4
42.5°	128.8	130.0	133.4	140.2	150.5	166.4	152.8	139.1	134.5	131.1	128.8
45°	117.4	117.4	122.0	125.4	136.8	151.6	137.9	125.4	123.1	120.8	119.7
47.5°	108.3	109.4	111.7	116.3	125.4	135.7	126.5	116.3	110.6	109.4	107.2
50°	96.9	98.0	102.6	107.2	118.6	124.3	118.6	107.2	101.5	98.0	98.0
52°	87.8	91.2	95.8	104.9	112.9	122.0	115.1	102.6	95.8	92.3	90.1
52.5°	86.6	88.9	93.5	103.7	112.9	120.8	114.0	101.5	93.5	91.2	88.9
55°	77.5	80.9	88.9	101.5	111.7	120.8	111.7	100.3	88.9	83.2	80.9
57.5°	74.1	76.4	86.6	102.6	110.6	120.8	111.7	100.3	88.9	78.7	76.4
60°	70.7	75.2	86.6	99.2	109.4	122.0	112.9	99.2	86.6	74.1	74.1
62.5°	67.3	70.7	85.5	96.9	104.9	117.4	108.3	96.9	83.2	70.7	69.5
65°	58.1	63.8	75.2	80.9	90.1	101.5	92.3	84.4	73.0	62.7	61.6
67.5°	44.5	46.7	55.9	62.7	68.4	78.7	74.1	63.8	55.9	47.9	47.9
70°	30.8	33.1	39.9	43.3	49.0	54.7	51.3	43.3	37.6	33.1	31.9
72.5°	21.7	22.8	25.1	27.4	29.6	31.9	30.8	25.1	21.7	20.5	19.4
75°	17.1	19.4	20.5	19.4	18.2	17.1	17.1	14.8	12.5	11.4	11.4
77.5°	17.1	18.2	17.1	14.8	12.5	11.4	10.3	9.1	6.8	5.7	6.8
80°	14.8	14.8	14.8	12.5	11.4	10.3	9.1	8.0	6.8	5.7	5.7
82.5°	16.0	16.0	14.8	12.5	12.5	10.3	10.3	9.1	8.0	5.7	5.7
85°	0.0	0.0	0.0	2.3	5.7	10.3	10.3	9.1	8.0	6.8	6.8
87.5°	0.0	0.0	0.0	0.0	1.1	2.3	4.6	5.7	6.8	6.8	6.8
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: P527613

CATALOG NUMBER: GALN-SA2C-827-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2913.9	2913.9	2913.9	2913.9	2913.9	2913.9	2913.9	2913.9	2913.9	2913.9	2913.9
2.5°	2517.2	2560.5	2642.6	2724.7	2774.9	2834.1	2941.3	2998.3	3072.4	3108.9	3180.7
5°	2028.1	2130.7	2167.2	2260.7	2361.0	2461.3	2621.0	2796.5	2942.4	3042.8	3172.7
7.5°	1479.8	1503.7	1645.1	1707.8	1871.9	2054.4	2272.1	2493.3	2678.0	2842.1	2941.3
10°	1109.3	1197.0	1286.0	1405.7	1537.9	1726.0	1934.7	2178.6	2418.0	2582.2	2707.6
12.5°	891.5	961.1	1079.6	1208.4	1371.5	1495.7	1705.5	1947.2	2257.3	2418.0	2583.3
15°	674.9	763.8	898.4	1031.7	1203.9	1335.0	1547.0	1851.4	2250.4	2471.6	2614.1
17.5°	500.5	560.9	681.7	831.1	1006.7	1191.3	1477.5	1841.2	2326.8	2590.2	2737.2
20°	383.1	403.6	480.0	613.3	803.7	1045.4	1364.6	1885.6	2552.6	2878.6	3028.0
22.5°	310.1	319.2	348.9	441.2	625.9	917.7	1311.0	1916.4	2806.8	3224.0	3423.5
25°	270.2	267.9	287.3	327.2	489.1	798.0	1242.6	2032.7	3118.0	3629.9	3808.9
27.5°	246.2	246.2	255.4	283.9	405.9	720.5	1199.3	2115.9	3431.5	3986.7	4083.6
30°	233.7	236.0	262.2	271.3	337.5	628.2	1127.5	2200.3	3731.4	4214.7	4348.1
32.5°	216.6	207.5	201.8	224.6	283.9	544.9	1055.7	2235.6	3974.2	4494.0	4608.0
35°	166.4	161.9	168.7	185.8	244.0	474.3	975.9	2275.5	4253.5	4817.8	4840.6
37.5°	150.5	149.3	153.9	168.7	205.2	412.7	918.9	2265.3	4466.7	5085.7	5024.2
40°	139.1	139.1	142.5	155.0	183.5	369.4	859.6	2256.1	4673.0	5386.7	5206.6
42.5°	130.0	130.0	135.7	143.6	174.4	340.9	815.1	2243.6	4846.3	5571.4	5313.7
45°	117.4	120.8	130.0	137.9	176.7	321.5	782.1	2195.7	4905.6	5569.1	5262.4
47.5°	108.3	112.9	122.0	133.4	159.6	315.8	759.3	2153.5	4885.1	5432.3	5101.7
50°	98.0	103.7	116.3	135.7	135.7	304.4	735.3	2191.2	4870.3	5326.3	4947.8
52°	91.2	95.8	111.7	132.2	118.6	280.5	720.5	2264.1	4930.7	5312.6	4879.4
52.5°	90.1	93.5	108.3	130.0	112.9	275.9	710.2	2281.2	4950.1	5278.4	4926.1
55°	79.8	84.4	99.2	101.5	92.3	226.9	677.2	2320.0	4854.3	5211.1	4881.7
57.5°	75.2	77.5	87.8	83.2	79.8	171.0	582.6	2259.6	4311.6	4628.6	4541.9
60°	69.5	71.8	82.1	65.0	67.3	119.7	437.8	1962.0	3462.3	3856.8	4012.9
62.5°	67.3	66.1	77.5	52.4	57.0	86.6	309.0	1594.9	2667.7	3175.0	3445.2
65°	59.3	58.1	55.9	44.5	49.0	67.3	184.7	1040.9	1879.9	2402.1	2550.3
67.5°	45.6	47.9	41.0	35.3	41.0	52.4	102.6	466.3	986.1	1441.0	1560.7
70°	31.9	34.2	33.1	30.8	36.5	43.3	59.3	159.6	408.1	757.0	834.5
72.5°	19.4	23.9	25.1	26.2	31.9	37.6	42.2	51.3	108.3	267.9	332.9
75°	11.4	16.0	19.4	22.8	26.2	31.9	35.3	36.5	37.6	50.2	80.9
77.5°	8.0	11.4	17.1	21.7	26.2	31.9	37.6	39.9	37.6	35.3	37.6
80°	6.8	11.4	16.0	20.5	27.4	33.1	37.6	37.6	36.5	31.9	34.2
82.5°	6.8	11.4	17.1	21.7	26.2	31.9	36.5	37.6	34.2	31.9	33.1
85°	8.0	12.5	18.2	22.8	28.5	26.2	23.9	19.4	18.2	14.8	16.0
87.5°	8.0	11.4	11.4	12.5	13.7	13.7	13.7	12.5	10.3	9.1	9.1
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: P527613

CATALOG NUMBER: GALN-SA2C-827-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2913.9	2913.9	2913.9	2913.9	2913.9	2913.9	2913.9	2913.9	2913.9	2913.9
2.5°	3184.1	3275.3	3271.9	3274.2	3260.5	3168.2	3123.7	3010.8	3042.8	3029.1
5°	3306.1	3396.2	3473.7	3464.6	3359.7	3234.3	3048.5	2872.9	2825.0	2754.3
7.5°	3184.1	3400.7	3472.6	3462.3	3307.3	3146.5	2850.1	2674.5	2591.3	2544.6
10°	2990.3	3241.1	3330.1	3348.3	3243.4	2999.4	2727.0	2445.4	2400.9	2320.0
12.5°	2879.7	3062.2	3116.9	3165.9	3129.4	2947.0	2633.5	2363.3	2301.7	2248.2
15°	2789.7	2898.0	2920.8	2976.6	2998.3	2900.3	2682.5	2452.2	2300.6	2294.9
17.5°	2872.9	2828.4	2745.2	2762.3	2830.7	2901.4	2809.1	2627.8	2480.7	2462.5
20°	3010.8	2814.8	2626.7	2668.8	2725.8	2942.4	3000.6	2872.9	2788.5	2741.8
22.5°	3169.3	2838.7	2589.0	2609.6	2717.9	3034.8	3310.7	3240.0	3082.7	3015.4
25°	3462.3	2904.8	2618.7	2632.4	2780.6	3163.6	3591.1	3643.6	3550.1	3536.4
27.5°	3748.5	3075.8	2683.7	2652.9	2812.5	3289.0	3761.0	4042.6	3878.4	3846.5
30°	3894.4	3214.9	2780.6	2728.1	2944.7	3365.4	3863.6	4302.5	4158.9	4144.1
32.5°	4117.8	3341.5	2855.8	2788.5	3018.8	3460.0	4055.1	4586.4	4447.3	4373.2
35°	4211.3	3479.4	3021.1	2942.4	3230.9	3592.3	4153.2	4839.5	4796.2	4724.3
37.5°	4391.4	3627.6	3216.1	3211.5	3487.4	3764.4	4329.9	5183.8	5175.8	5051.5
40°	4406.3	3789.5	3523.9	3667.5	3884.1	4064.2	4484.9	5279.5	5409.5	5325.1
42.5°	4429.1	4073.4	4056.3	4174.8	4360.7	4321.9	4490.6	5302.3	5500.7	5450.5
45°	4439.3	4357.2	4597.8	4816.7	4894.2	4659.3	4437.0	5259.0	5548.6	5423.2
47.5°	4357.2	4601.2	5035.6	5458.5	5481.3	4866.8	4414.2	5214.6	5577.1	5493.9
50°	4368.6	4754.0	5414.1	5792.6	5709.3	5050.4	4378.9	5187.2	5562.3	5506.4
52°	4341.3	4757.4	5467.6	5785.7	5727.6	4948.9	4318.5	5082.3	5548.6	5588.5
52.5°	4372.1	4736.9	5411.8	5790.3	5715.0	4999.1	4310.5	5140.4	5556.6	5475.6
55°	4266.0	4492.9	5084.6	5245.3	5233.9	4537.4	4065.4	4947.8	5347.9	5349.1
57.5°	3855.6	3894.4	3987.9	3984.4	3932.0	3567.2	3477.1	4549.9	4767.7	4649.1
60°	3397.3	2851.2	2599.3	2496.7	2438.5	2379.3	3075.8	4162.3	4182.8	4132.7
62.5°	2935.6	1976.8	1641.7	1613.2	1626.8	1843.4	2973.2	4008.4	3885.3	3777.0
65°	2369.0	1441.0	1192.5	1154.9	1288.2	1522.0	2406.6	3073.6	2884.3	2794.2
67.5°	1487.8	1051.1	806.0	735.3	896.1	1047.7	1581.2	1931.2	1719.2	1594.9
70°	882.4	587.1	364.8	327.2	368.2	558.6	885.8	963.3	796.9	733.0
72.5°	347.7	215.5	101.5	86.6	90.1	196.1	326.1	318.1	240.5	214.3
75°	93.5	65.0	35.3	28.5	23.9	36.5	52.4	34.2	12.5	16.0
77.5°	43.3	38.8	30.8	23.9	18.2	13.7	6.8	2.3	2.3	1.1
80°	37.6	33.1	28.5	23.9	18.2	11.4	5.7	1.1	1.1	1.1
82.5°	35.3	30.8	26.2	21.7	17.1	11.4	5.7	1.1	0.0	0.0
85°	14.8	19.4	21.7	20.5	18.2	11.4	5.7	1.1	0.0	0.0
87.5°	8.0	6.8	5.7	4.6	3.4	2.3	2.3	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

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