

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: P944860

Luminaire Tested: **GALN-SB1A-727-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944860
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-727-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3176 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

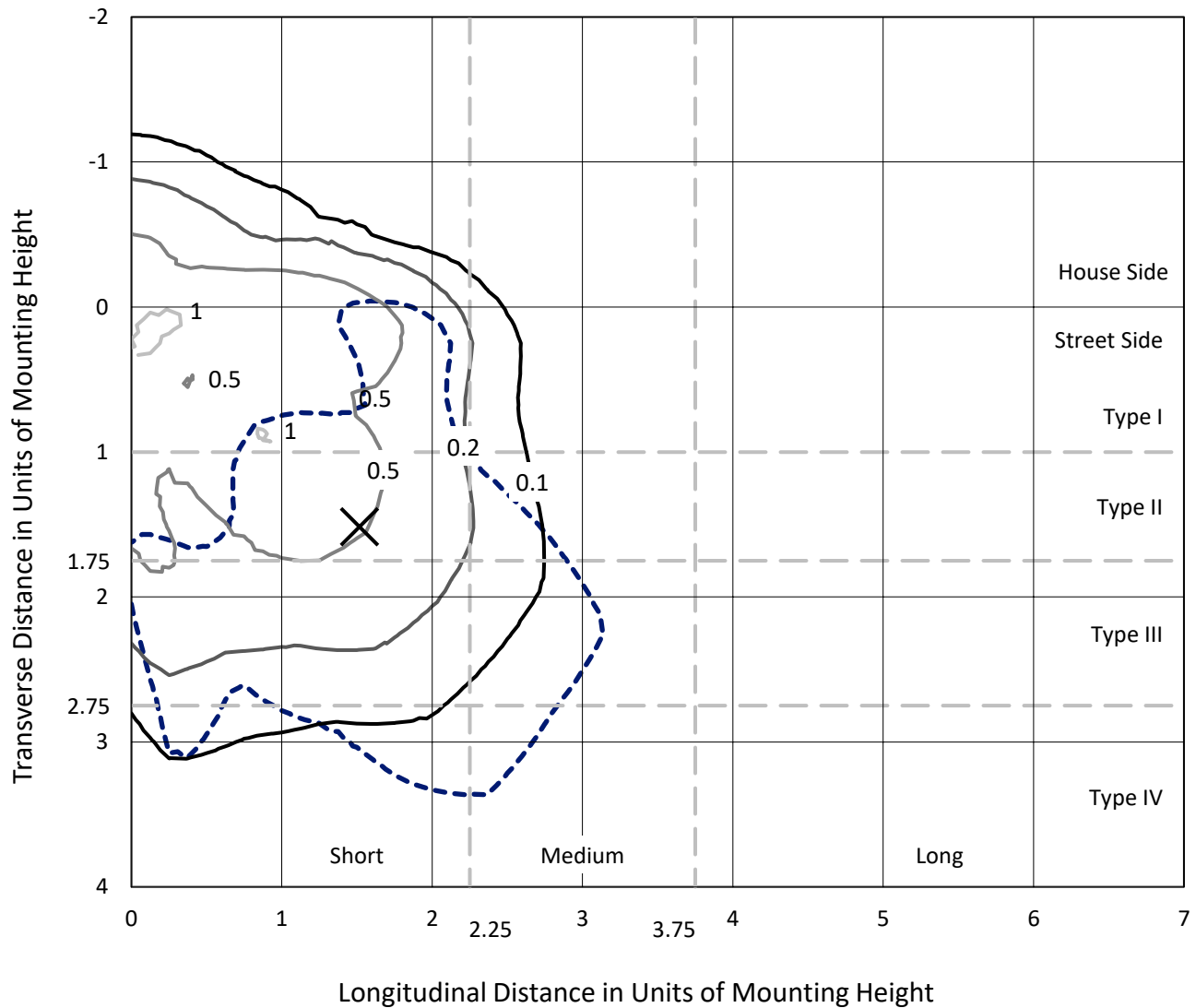
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P944860
 CATALOG NUMBER: GALN-SB1A-727-U-SLL-HSS

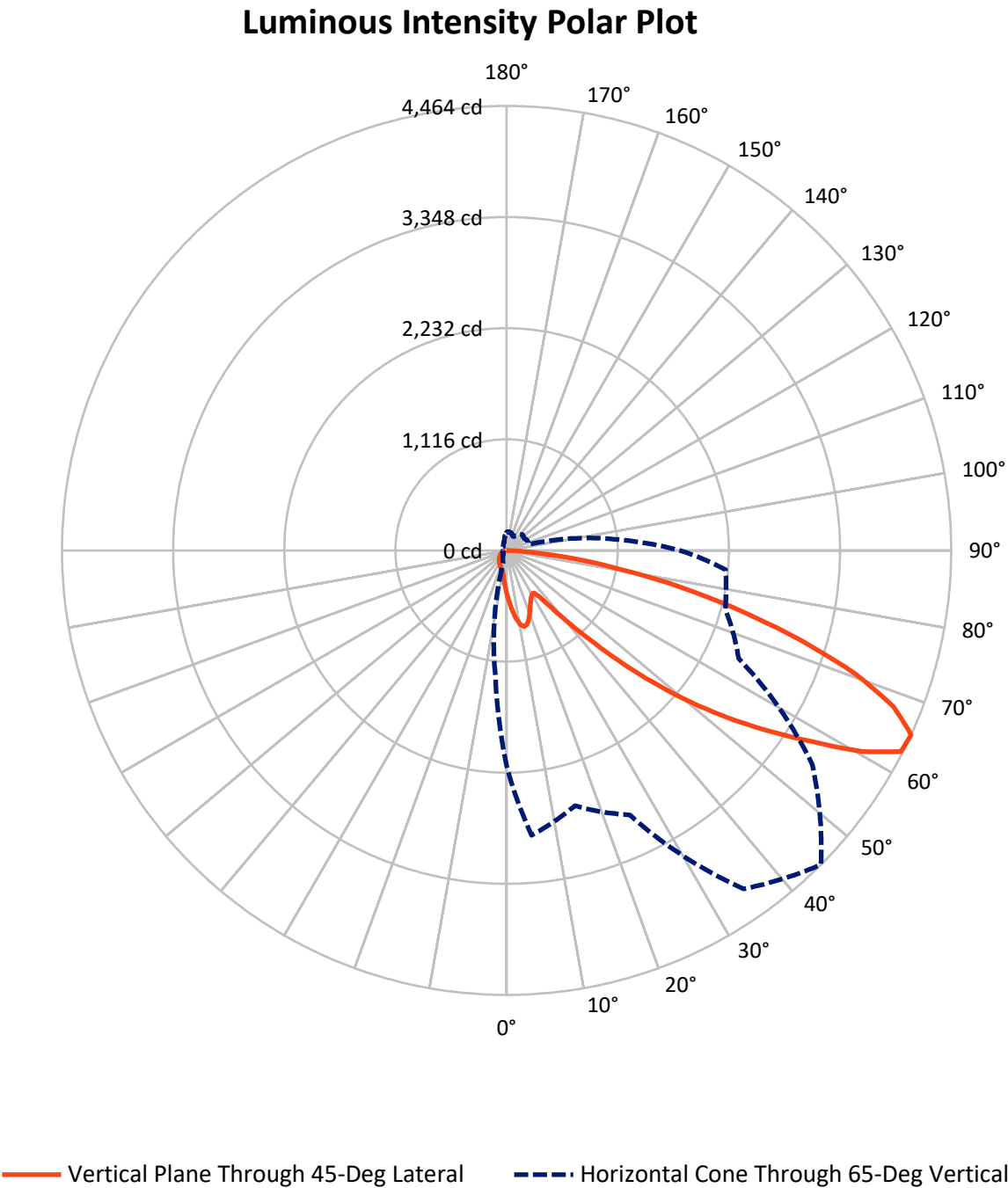
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P944860
CATALOG NUMBER: GALN-SB1A-727-U-SLL-HSS



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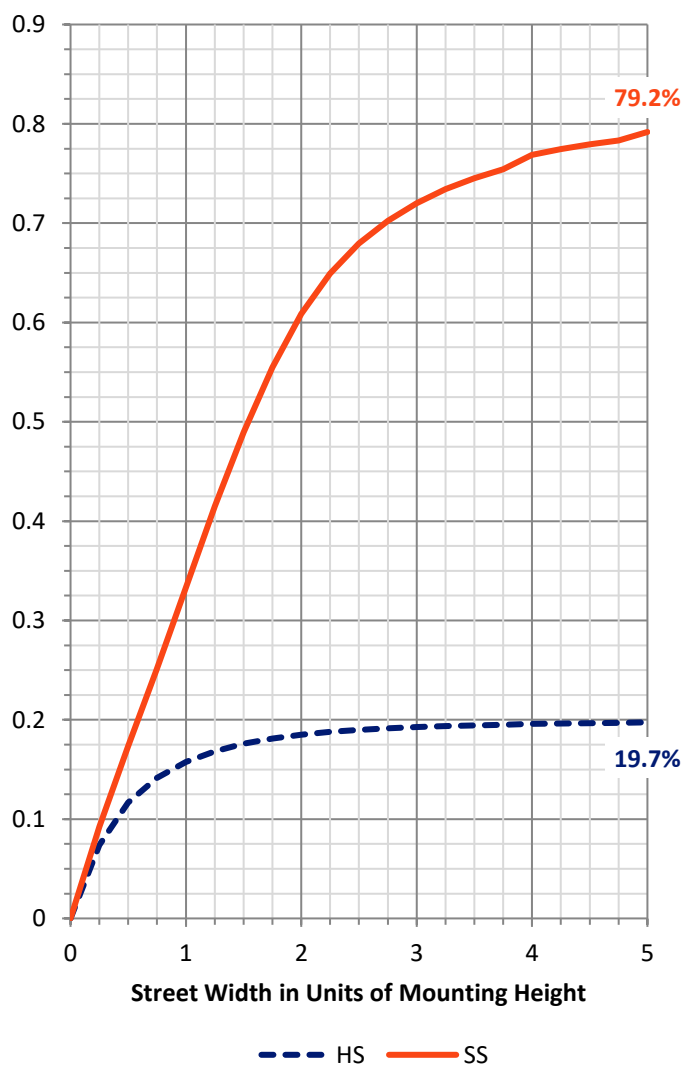
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	631.3	0.0	631.3
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	2544.7	0.0	2544.7
	% Fixture	80.1	0.0	80.1
Total	Lumens	3176.0	0.0	3176.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.3	1.4
10°-20°	129.8	4.1
20°-30°	191.2	6.0
30°-40°	245.7	7.7
40°-50°	397.3	12.5
50°-60°	696.7	21.9
60°-70°	871.8	27.4
70°-80°	509.4	16.0
80°-90°	90.9	2.9
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°	3176.0	100.0
0°-180°	3176.0	100.0

Coefficient of Utilization



REPORT NUMBER: P944860

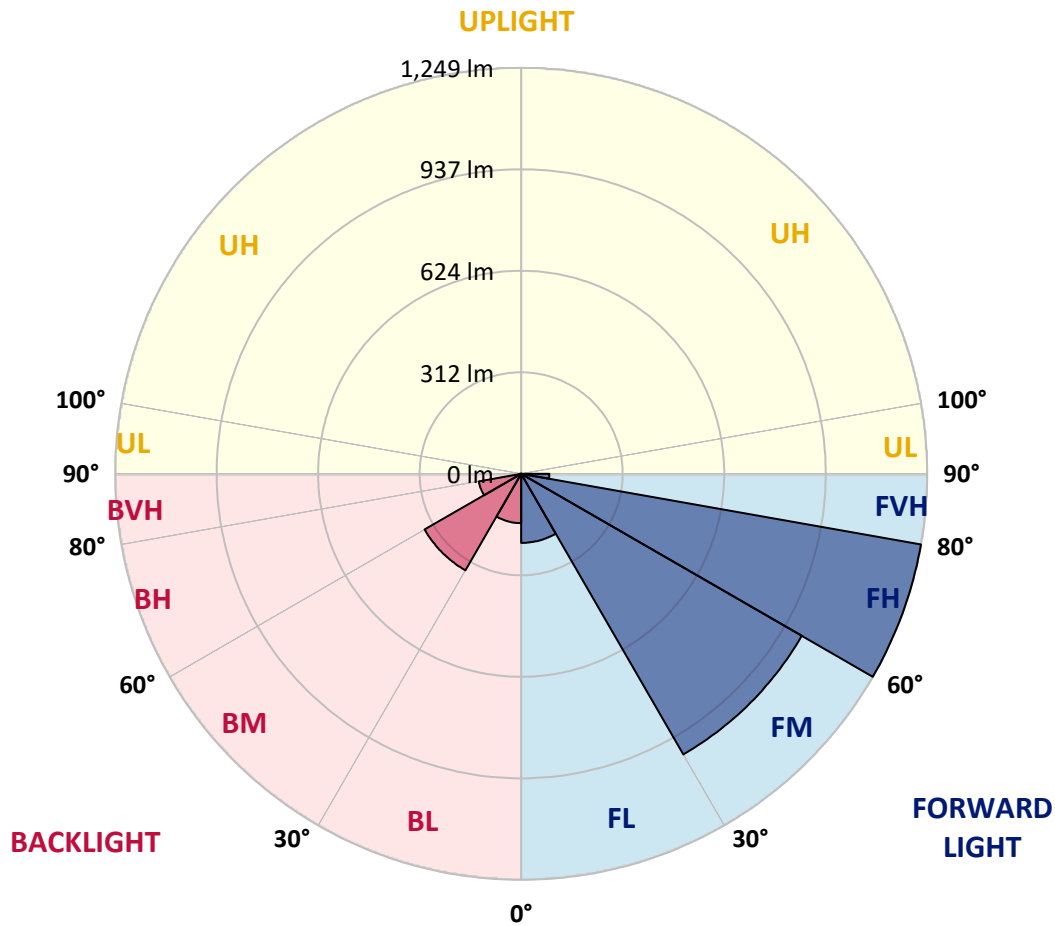
CATALOG NUMBER: GALN-SB1A-727-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	212.5	6.7			
FM	(30°-60°)	996.7	31.4			
FH	(60°-80°)	1248.9	39.3			G1/1800
FVH	(80°-90°)	86.6	2.7			G1/100
BL	(0°-30°)	151.8	4.8	B1/500		
BM	(30°-60°)	343.0	10.8	B1/1000		
BH	(60°-80°)	132.3	4.2	B1/500		G1/500
BVH	(80°-90°)	4.3	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 IV Short



REPORT NUMBER: P944860

CATALOG NUMBER: GALN-SB1A-727-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	439.8	439.8	439.8	439.8	439.8	439.8	439.8	439.8	439.8	439.8	439.8
2.5°	492.7	496.4	504.8	509.1	515.9	516.4	516.4	510.4	510.2	498.2	496.9
5°	550.7	559.5	579.1	599.5	603.9	605.0	602.8	591.0	582.2	558.8	553.8
7.5°	608.2	625.1	655.1	682.2	690.9	690.9	685.7	666.4	648.5	614.6	601.9
10°	655.9	677.2	717.9	748.3	758.3	756.1	745.4	721.1	696.4	655.3	638.7
12.5°	687.4	711.3	755.9	780.4	790.7	785.0	772.8	749.1	723.1	679.8	661.0
15°	703.2	728.1	766.9	779.8	776.9	771.0	769.5	758.1	738.4	698.0	677.4
17.5°	710.0	733.2	760.1	752.0	727.9	723.3	738.6	753.1	748.3	713.7	694.4
20°	716.3	735.8	743.9	708.0	666.0	661.8	691.2	732.3	753.3	728.4	710.6
22.5°	725.1	737.1	720.5	661.6	616.3	606.7	639.1	701.0	754.8	747.0	729.2
25°	737.1	740.4	694.7	617.7	572.1	562.5	592.7	666.2	752.2	767.1	752.0
27.5°	751.6	744.8	669.9	580.9	536.9	527.9	558.1	632.7	744.8	787.2	776.5
30°	770.4	750.5	645.4	552.5	511.8	505.2	534.3	603.9	735.6	812.8	806.9
32.5°	789.4	752.9	622.7	535.8	506.1	508.5	532.3	588.3	725.5	837.3	840.2
35°	810.0	760.5	611.5	552.2	553.5	574.6	584.4	602.8	724.0	870.6	881.7
37.5°	838.0	777.6	624.9	633.8	679.4	722.9	714.8	673.4	741.7	920.2	941.0
40°	878.2	807.6	683.1	772.8	866.2	936.9	906.0	801.9	796.0	991.8	1022.9
42.5°	936.9	855.3	786.3	942.6	1101.0	1217.4	1134.7	967.5	890.9	1094.0	1133.6
45°	1023.5	932.5	911.3	1121.8	1390.4	1573.8	1401.8	1144.1	1024.0	1248.7	1279.7
47.5°	1143.6	1046.1	1028.3	1310.6	1742.3	1979.4	1698.1	1307.7	1175.4	1459.6	1466.8
50°	1303.1	1199.0	1139.3	1517.1	2128.0	2392.9	1994.1	1465.7	1348.9	1717.3	1709.0
52.5°	1513.6	1412.3	1268.6	1713.8	2524.7	2797.7	2291.4	1604.4	1564.2	2016.4	1999.3
55°	1800.7	1733.3	1445.3	1901.5	2921.1	3204.9	2577.2	1735.2	1848.6	2371.7	2268.4
57.5°	2156.9	2205.0	1700.2	2119.2	3277.5	3624.5	2864.2	1918.2	2217.9	2769.0	2424.7
60°	2386.6	2832.3	2188.4	2441.1	3682.5	4099.1	3257.6	2266.0	2606.0	2911.5	2394.9
62.5°	2331.0	3031.8	2773.0	2852.0	4054.9	4444.1	3643.1	2615.5	2679.1	2701.7	2165.6
65°	2160.6	2870.8	2653.7	2931.8	4149.2	4463.6	3746.2	2570.4	2272.6	2205.7	1740.7
67.5°	1926.0	2679.8	2370.4	2720.0	3978.8	4191.4	3554.3	2273.7	1756.3	1655.2	1262.9
70°	1672.9	2468.4	2184.4	2482.4	3653.8	3717.1	3228.1	1999.8	1291.8	1117.8	810.4
72.5°	1432.7	2248.3	2057.1	2238.9	3220.4	3089.6	2803.4	1757.6	940.6	806.3	576.1
75°	1187.0	1923.6	1875.7	1949.7	2650.5	2433.6	2329.3	1455.2	738.2	583.3	397.5
77.5°	915.9	1503.1	1613.4	1561.3	1865.6	1807.7	1805.5	1093.5	539.3	389.2	249.2
80°	626.8	1047.6	1260.5	1101.4	1210.8	1181.3	1359.8	733.6	391.2	234.3	138.7
82.5°	368.4	637.8	877.4	533.2	669.5	687.2	809.8	356.9	230.2	54.0	30.2
85°	149.4	251.8	343.1	208.7	322.9	272.4	307.4	100.2	64.1	1.3	0.0
87.5°	37.6	80.5	56.4	23.4	37.4	34.4	27.1	12.3	2.6	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: P944860

CATALOG NUMBER: GALN-SB1A-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	439.8	439.8	439.8	439.8	439.8	439.8	439.8	439.8	439.8	439.8	439.8
2.5°	488.3	483.3	470.8	458.4	448.3	434.7	425.8	415.1	404.8	395.6	393.8
5°	540.0	523.4	500.6	479.8	458.6	438.0	417.7	396.2	376.5	364.5	356.9
7.5°	582.0	552.7	522.5	496.0	470.4	446.3	419.4	393.4	362.5	346.1	331.3
10°	613.3	574.8	535.2	504.8	478.9	455.5	432.8	406.5	369.3	348.8	326.4
12.5°	633.8	588.1	541.7	506.9	478.1	459.9	449.8	439.6	402.6	378.5	346.1
15°	648.1	597.5	546.3	501.9	466.5	453.1	463.2	475.0	451.4	423.6	381.4
17.5°	663.6	609.8	548.3	488.3	443.9	438.2	464.3	491.6	490.5	463.0	421.6
20°	680.0	620.5	547.0	466.5	416.6	421.6	454.9	486.6	499.9	485.1	448.3
22.5°	696.9	630.8	542.0	438.0	391.0	406.7	440.0	467.8	483.5	478.9	450.9
25°	718.1	645.2	534.5	407.4	369.8	391.6	422.7	445.2	456.2	456.0	436.7
27.5°	743.5	664.5	530.6	382.7	354.7	374.6	402.1	422.3	429.9	429.9	414.6
30°	773.0	687.2	526.2	366.5	345.9	356.9	378.3	398.0	405.6	405.6	392.7
32.5°	805.8	709.1	515.7	356.6	339.3	339.6	353.1	371.1	380.3	381.6	372.4
35°	845.2	732.5	492.7	348.8	331.7	322.7	329.3	344.2	355.1	357.9	352.3
37.5°	896.8	761.2	459.9	337.2	319.9	305.0	306.5	317.9	329.9	334.3	330.6
40°	966.2	794.9	425.8	320.5	303.2	285.5	284.9	293.2	305.0	309.8	307.8
42.5°	1057.9	835.4	393.2	304.6	283.1	265.0	263.9	270.4	280.7	285.7	284.9
45°	1175.1	885.0	365.2	292.1	263.4	245.5	245.0	250.5	259.5	264.7	263.6
47.5°	1338.1	934.7	346.1	285.5	247.9	229.5	230.4	235.2	243.3	247.0	245.5
50°	1550.6	949.8	336.5	285.5	239.6	215.3	219.7	223.6	229.7	231.9	230.0
52.5°	1754.5	899.9	327.8	287.3	240.7	203.3	212.7	215.5	220.8	221.6	218.8
55°	1854.5	773.7	315.7	287.7	247.5	193.0	207.0	212.2	214.2	214.0	209.2
57.5°	1820.1	625.5	295.4	286.0	252.0	186.4	200.0	210.0	211.4	209.4	200.4
60°	1699.6	460.6	279.8	273.1	250.3	184.4	189.3	205.2	207.2	204.6	189.9
62.5°	1497.4	319.7	267.8	244.6	242.6	183.8	172.4	194.7	199.5	195.8	174.4
65°	1178.9	225.8	230.6	214.4	226.0	180.3	154.9	182.0	188.6	182.9	152.7
67.5°	797.7	163.0	186.8	194.3	199.1	172.4	142.2	167.6	176.3	168.9	127.6
70°	430.8	114.4	123.4	163.7	169.1	158.8	130.8	152.9	163.0	154.9	103.9
72.5°	254.5	82.3	86.4	131.5	140.9	139.8	118.1	135.9	148.1	138.5	84.5
75°	140.2	55.6	61.7	95.4	114.4	107.9	101.5	115.1	127.6	118.1	65.2
77.5°	62.8	33.3	42.9	62.6	89.9	74.0	78.5	89.7	101.3	91.5	43.5
80°	24.3	18.6	28.4	34.1	65.4	40.9	50.5	66.1	74.4	66.5	26.5
82.5°	3.1	8.3	12.3	13.3	38.1	21.7	29.3	41.6	40.9	35.4	13.3
85°	0.0	1.5	1.8	0.9	16.4	7.9	9.6	13.6	12.7	9.6	1.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	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: P944860

CATALOG NUMBER: GALN-SB1A-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	439.8	439.8	439.8	439.8	439.8	439.8	439.8	439.8	439.8	439.8	439.8
2.5°	383.1	375.2	371.3	368.0	371.1	372.8	372.8	380.3	384.6	386.4	398.6
5°	337.6	322.9	313.1	307.2	309.2	311.3	313.7	323.2	329.5	333.7	352.7
7.5°	301.7	279.4	265.6	258.4	259.5	261.0	263.0	272.2	278.5	284.0	305.2
10°	284.0	252.5	234.3	225.6	224.0	223.2	222.5	228.0	232.8	237.2	258.2
12.5°	284.9	240.9	218.8	208.1	203.5	198.2	194.1	194.9	198.0	203.5	216.8
15°	296.0	237.2	210.7	197.4	189.7	183.6	178.5	177.4	178.5	179.4	187.7
17.5°	311.1	236.7	203.7	187.1	179.2	174.2	169.6	168.0	168.3	169.3	171.5
20°	323.2	235.4	195.8	177.2	170.2	165.8	161.3	159.7	160.2	160.4	162.8
22.5°	329.5	233.5	187.1	167.4	161.5	157.1	152.9	152.7	152.7	154.0	155.8
25°	329.5	229.3	179.2	158.0	152.7	148.8	143.7	144.6	145.1	146.8	149.4
27.5°	321.6	221.4	172.8	149.9	144.4	140.5	135.9	137.0	137.6	139.6	142.9
30°	311.6	212.0	165.6	142.2	135.9	133.0	129.1	129.5	130.4	132.6	136.3
32.5°	300.8	200.9	159.7	134.6	128.2	126.0	121.6	122.3	123.2	125.6	129.7
35°	289.0	187.7	152.7	127.6	121.2	119.5	114.4	114.9	116.2	118.8	123.0
37.5°	276.6	177.0	145.7	120.8	114.2	112.5	107.2	107.6	109.2	112.2	116.2
40°	264.3	166.5	138.3	113.6	107.0	105.5	99.8	100.2	102.0	105.2	109.4
42.5°	251.0	158.4	128.7	106.1	99.1	97.6	92.3	93.0	95.0	98.2	102.4
45°	235.0	153.2	117.9	99.1	91.2	89.7	84.9	86.2	88.4	91.7	96.1
47.5°	218.6	151.0	109.0	91.7	83.1	81.8	77.9	80.1	82.5	85.1	89.9
50°	202.8	148.1	99.8	84.7	76.1	74.8	72.2	75.0	77.5	79.9	84.5
52.5°	184.9	142.0	91.5	78.5	70.2	69.8	68.5	71.1	73.3	75.5	79.4
55°	166.3	132.2	84.2	73.1	65.2	65.6	65.0	67.2	68.9	70.9	74.4
57.5°	150.1	119.7	78.5	67.2	60.8	62.1	61.3	62.4	63.5	65.9	68.7
60°	133.7	104.8	72.2	60.2	56.4	58.0	55.6	55.4	55.8	56.4	61.7
62.5°	111.6	89.3	64.3	54.0	51.6	52.3	47.7	44.2	44.2	44.9	52.7
65°	89.7	74.8	55.6	47.0	45.1	44.6	38.1	33.3	32.8	34.8	41.6
67.5°	73.7	62.1	46.8	39.2	37.9	38.3	33.5	28.7	28.2	30.4	35.4
70°	61.0	50.1	37.4	30.2	31.5	33.5	28.7	24.1	23.4	25.4	30.2
72.5°	48.6	39.2	28.7	22.3	26.0	28.4	23.4	19.0	18.6	20.3	24.9
75°	35.7	28.0	19.5	16.2	20.1	22.3	17.1	13.6	12.9	14.4	19.0
77.5°	22.1	15.8	12.3	9.6	13.8	14.9	9.0	7.9	7.7	8.8	12.0
80°	10.3	6.8	5.9	3.3	5.0	5.9	3.7	4.2	4.4	5.3	7.4
82.5°	2.8	1.1	0.2	0.0	0.0	1.8	0.9	1.8	2.2	3.3	4.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.1	2.0	3.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.8
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: P944860

CATALOG NUMBER: GALN-SB1A-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	439.8	439.8	439.8	439.8	439.8	439.8	439.8	439.8
2.5°	407.8	416.6	430.6	445.0	459.2	473.7	487.7	492.7
5°	370.0	390.1	417.9	447.7	478.3	509.4	537.8	550.7
7.5°	327.8	356.6	398.4	445.0	493.8	542.6	587.5	608.2
10°	282.7	319.2	366.9	429.9	499.9	567.3	629.0	655.9
12.5°	239.8	278.1	330.8	406.3	495.1	581.6	655.7	687.4
15°	203.9	237.8	294.7	378.3	479.6	582.4	668.4	703.2
17.5°	177.0	199.1	258.0	347.2	459.2	574.3	672.8	710.0
20°	163.7	169.8	210.3	307.4	440.2	566.7	677.2	716.3
22.5°	155.8	157.3	172.0	256.0	417.5	564.3	684.8	725.1
25°	149.4	149.9	153.8	202.8	382.7	562.7	696.6	737.1
27.5°	143.1	143.1	145.3	163.4	335.4	556.2	712.0	751.6
30°	136.7	136.7	138.3	144.6	280.1	543.3	730.3	770.4
32.5°	130.2	130.2	131.5	136.1	223.6	527.1	747.2	789.4
35°	123.6	123.2	124.9	129.7	177.9	506.5	764.0	810.0
37.5°	116.6	116.4	118.1	123.6	153.6	482.7	776.7	838.0
40°	109.2	109.2	111.1	117.1	146.6	452.7	796.8	878.2
42.5°	102.4	102.0	104.1	111.4	141.3	424.0	832.9	936.9
45°	95.8	95.0	96.9	105.9	132.2	414.0	900.3	1023.5
47.5°	89.7	87.5	89.3	99.3	123.8	451.6	1010.6	1143.6
50°	84.7	80.5	82.0	92.8	117.5	533.2	1153.7	1303.1
52.5°	79.4	74.0	74.8	84.7	111.8	610.9	1308.8	1513.6
55°	74.0	67.8	68.3	76.6	103.7	622.5	1460.2	1800.7
57.5°	67.8	62.1	62.1	69.1	97.8	539.5	1576.6	2156.9
60°	61.0	57.3	56.2	63.2	103.1	380.7	1590.2	2386.6
62.5°	53.6	51.6	50.1	57.5	107.0	225.6	1481.0	2331.0
65°	45.1	44.6	43.5	63.2	90.1	133.2	1271.4	2160.6
67.5°	37.9	37.2	37.2	66.3	68.5	83.8	993.3	1926.0
70°	32.6	30.2	30.2	50.1	41.6	58.0	693.6	1672.9
72.5°	27.3	24.7	23.0	40.0	31.1	42.4	433.4	1432.7
75°	21.9	19.9	17.7	26.5	23.2	32.2	251.8	1187.0
77.5°	15.8	14.9	12.5	19.5	16.8	23.2	149.9	915.9
80°	8.1	8.3	7.9	11.2	11.4	15.8	85.3	626.8
82.5°	4.8	3.7	4.2	5.5	6.6	9.0	32.2	368.4
85°	3.1	2.0	2.0	2.6	3.3	3.5	9.8	149.4
87.5°	1.5	0.7	0.9	1.3	1.1	0.9	0.4	37.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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