

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: P957420

Luminaire Tested: **GALN-SB9D-740-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957420
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-SB9D-740-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 74839 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

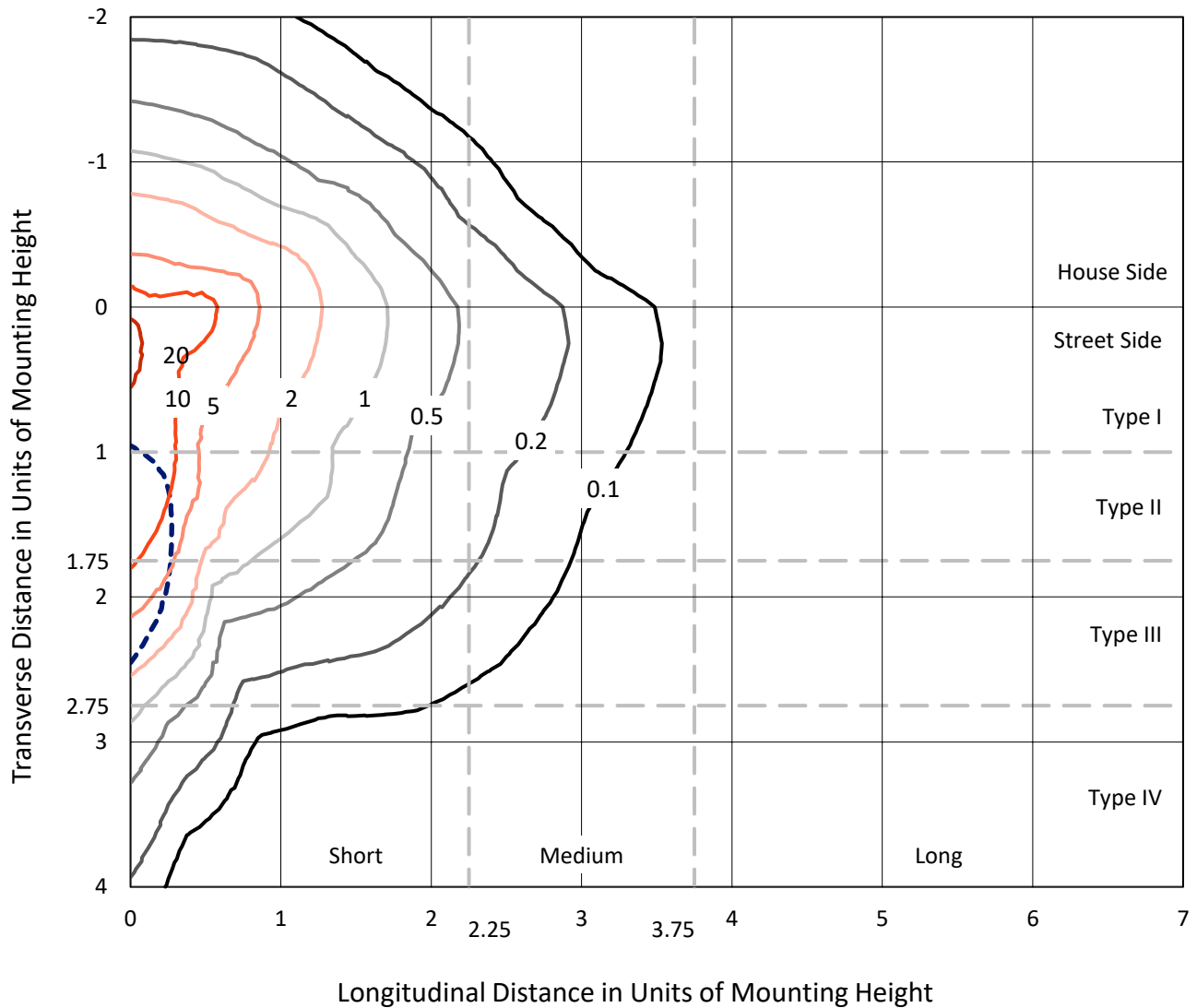
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P957420
 CATALOG NUMBER: GALN-SB9D-740-U-SLR-HSS

Iso-Footcandle Lines of Horizontal Illumination

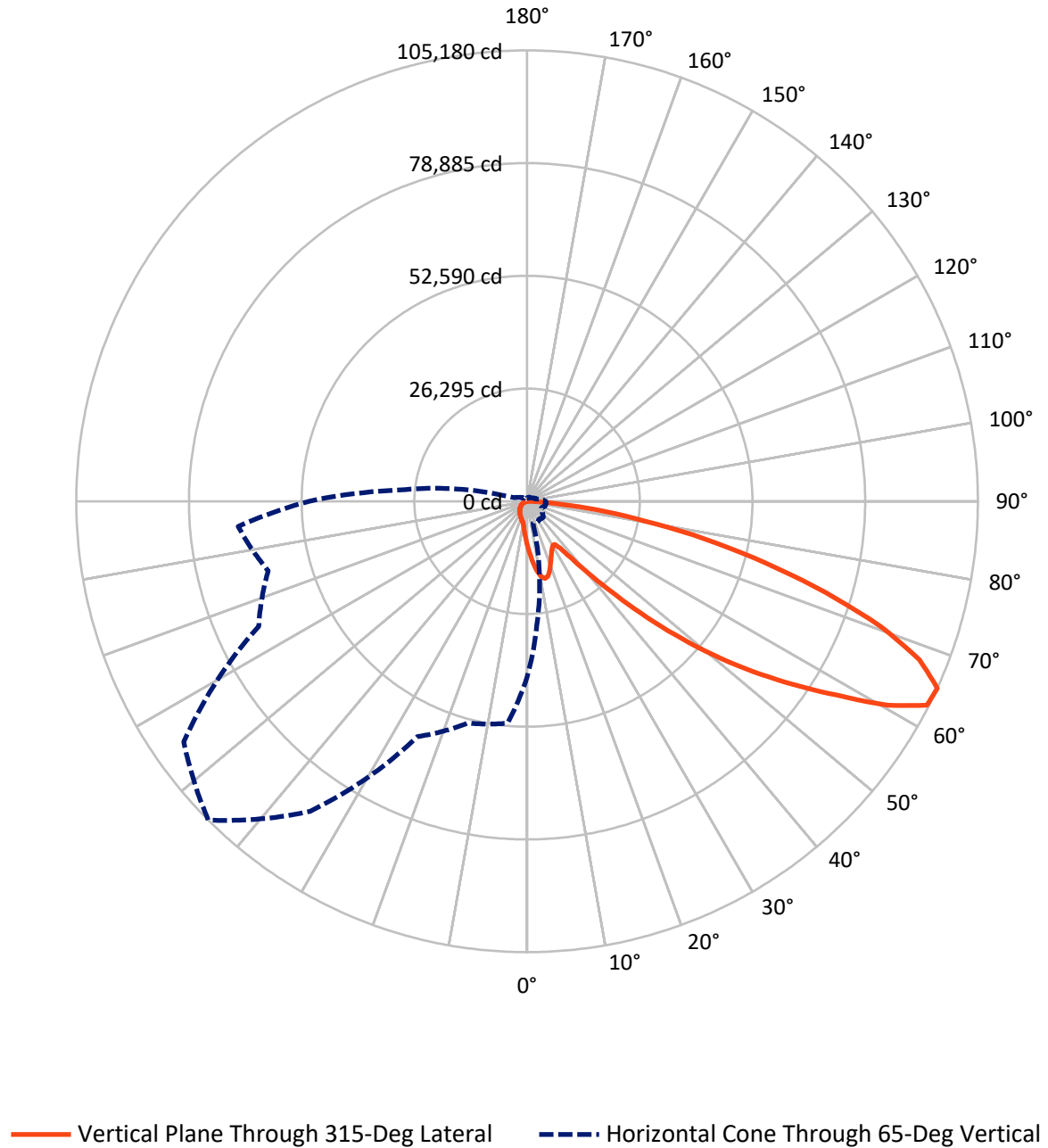
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P957420
CATALOG NUMBER: GALN-SB9D-740-U-SLR-HSS

Luminous Intensity Polar Plot



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 CATALOG NUMBER: GALN-SB9D-740-U-SLR-HSS

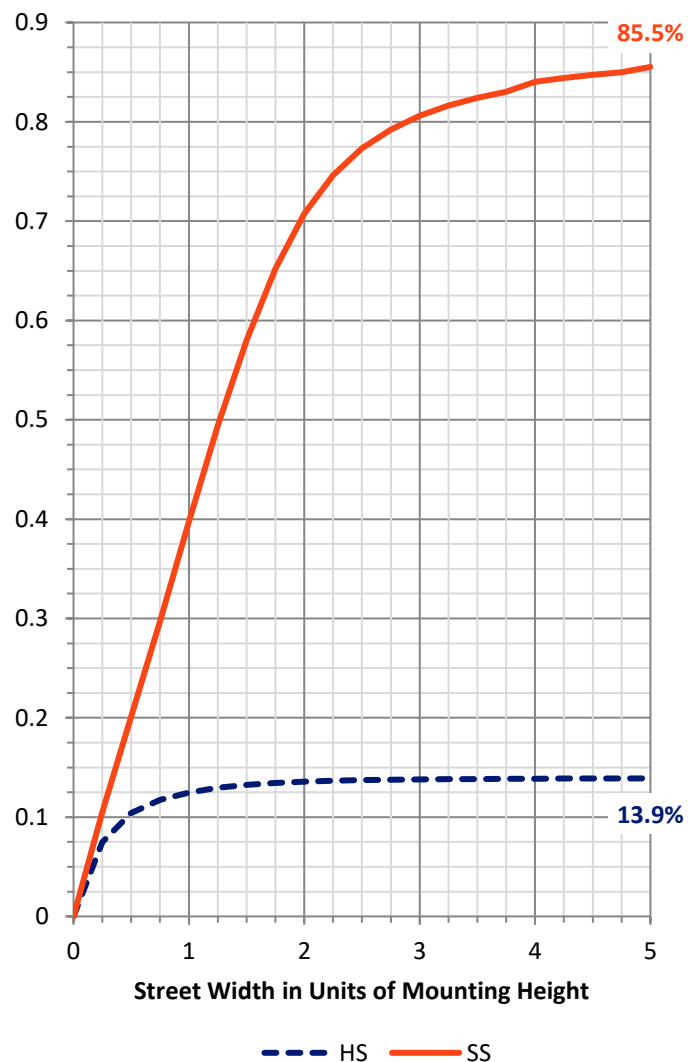
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10480.7	0.0	10480.7
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	64358.4	0.0	64358.4
	% Fixture	86.0	0.0	86.0
Total	Lumens	74839.0	0.0	74839.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1020.3	1.4
10°-20°	3058.4	4.1
20°-30°	4505.7	6.0
30°-40°	5788.6	7.7
40°-50°	9361.8	12.5
50°-60°	16416.9	21.9
60°-70°	20542.0	27.4
70°-80°	12003.8	16.0
80°-90°	2141.7	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°	74839.0	100.0
0°-180°	74839.0	100.0

Coefficient of Utilization



REPORT NUMBER: P957420

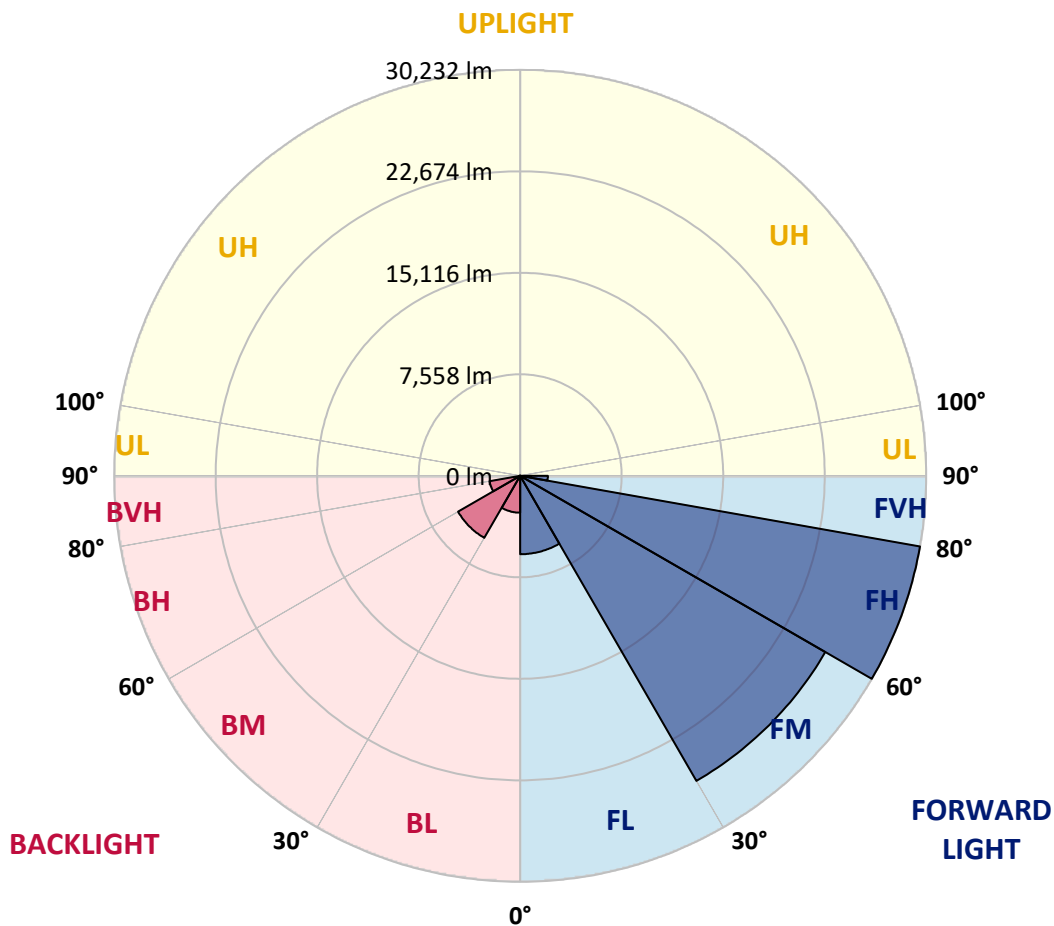
CATALOG NUMBER: GALN-SB9D-740-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5837.2	7.8			
FM (30°-60°)	26230.2	35.0			
FH (60°-80°)	30231.6	40.4			G5
FVH (80°-90°)	2059.4	2.8			G5
BL (0°-30°)	2747.2	3.7	B4/5000		
BM (30°-60°)	5337.0	7.1	B4/8500		
BH (60°-80°)	2314.2	3.1	B3/2500		G3/2500
BVH (80°-90°)	82.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short



REPORT NUMBER: P957420

CATALOG NUMBER: GALN-SB9D-740-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10362.8	10362.8	10362.8	10362.8	10362.8	10362.8	10362.8	10362.8	10362.8	10362.8
2.5°	11708.4	11507.4	11388.8	11094.9	10801.0	10563.9	10244.2	10032.8	9780.2	9537.9
5°	13048.9	12724.1	12332.3	11796.1	11306.3	10806.2	10321.6	9842.1	9336.8	8872.8
7.5°	14183.1	13714.0	13023.1	12311.6	11687.8	11084.6	10517.5	9883.3	9269.8	8542.9
10°	15049.3	14451.2	13543.8	12610.7	11894.0	11285.7	10734.0	10197.8	9579.2	8702.7
12.5°	15575.1	14935.8	13858.3	12765.3	11945.6	11265.0	10837.1	10600.0	10357.7	9486.4
15°	15961.8	15271.0	14080.0	12873.6	11827.0	10991.8	10677.3	10914.5	11192.9	10636.1
17.5°	16364.0	15637.0	14368.7	12920.0	11507.4	10460.8	10326.7	10940.2	11584.7	11558.9
20°	16745.5	16023.7	14621.4	12889.1	10991.8	9816.3	9934.9	10718.5	11466.1	11780.6
22.5°	17183.7	16420.7	14863.7	12770.5	10321.6	9213.1	9584.3	10368.0	11022.7	11393.9
25°	17719.9	16920.8	15203.9	12595.2	9599.8	8713.0	9228.6	9960.7	10491.7	10749.5
27.5°	18297.3	17518.8	15657.6	12502.4	9017.2	8357.3	8826.4	9476.0	9950.4	10130.8
30°	19013.9	18214.8	16193.8	12399.3	8635.7	8151.0	8408.8	8914.1	9378.1	9558.5
32.5°	19797.6	18988.2	16709.4	12151.8	8403.7	7996.4	8001.5	8321.2	8743.9	8960.5
35°	20777.2	19916.2	17261.0	11610.5	8218.1	7815.9	7604.5	7759.2	8109.8	8367.6
37.5°	22174.3	21132.9	17936.4	10837.1	7944.8	7537.5	7186.9	7223.0	7491.1	7774.7
40°	24102.5	22767.2	18730.4	10032.8	7553.0	7145.7	6728.1	6712.6	6908.5	7186.9
42.5°	26711.3	24927.4	19684.2	9264.7	7176.6	6671.4	6243.5	6217.7	6372.4	6614.7
45°	30155.3	27690.9	20854.5	8604.7	6882.8	6207.4	5784.6	5774.3	5903.2	6114.6
47.5°	34563.3	31531.8	22024.8	8156.2	6728.1	5841.3	5408.3	5428.9	5542.3	5733.1
50°	40270.6	36537.9	22380.6	7929.4	6728.1	5645.4	5073.1	5176.2	5269.0	5413.4
52.5°	47112.1	41343.0	21205.1	7723.1	6769.3	5671.2	4789.6	5011.3	5078.3	5202.0
55°	53453.5	43699.1	18230.3	7439.6	6779.6	5831.0	4547.3	4877.2	5001.0	5047.4
57.5°	57134.6	42889.6	14739.9	6960.1	6738.4	5939.3	4392.6	4712.2	4949.4	4980.3
60°	56433.5	40048.9	10852.6	6594.0	6434.2	5898.0	4346.2	4459.6	4836.0	4882.4
62.5°	51030.4	35285.1	7532.4	6310.5	5764.0	5717.6	4330.7	4062.6	4588.5	4701.9
65°	41018.2	27778.5	5320.6	5434.0	5052.5	5325.8	4248.2	3650.2	4289.5	4444.1
67.5°	29758.3	18797.4	3840.9	4402.9	4578.2	4691.6	4062.6	3351.2	3949.2	4155.4
70°	19096.4	10151.4	2696.4	2907.8	3856.4	3985.3	3743.0	3083.1	3603.8	3840.9
72.5°	13574.8	5996.0	1938.5	2036.5	3098.5	3320.2	3294.4	2784.0	3201.6	3490.4
75°	9367.8	3304.8	1309.5	1453.9	2247.9	2696.4	2541.7	2392.2	2711.9	3005.7
77.5°	5872.3	1479.7	783.7	1010.5	1474.5	2119.0	1742.6	1850.9	2113.8	2387.1
80°	3268.7	572.3	438.2	670.2	804.3	1541.5	964.1	1190.9	1557.0	1752.9
82.5°	711.5	72.2	195.9	288.7	314.5	897.1	510.4	690.9	979.6	964.1
85°	0.0	0.0	36.1	41.2	20.6	386.7	185.6	226.8	319.6	299.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P957420
 CATALOG NUMBER: GALN-SB9D-740-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
10362.8	0°	10362.8	10362.8	10362.8	10362.8	10362.8	10362.8	10362.8	10362.8	10362.8	10362.8
9321.4	2.5°	9280.1	9027.5	8841.9	8749.1	8671.8	8743.9	8785.2	8785.2	8960.5	9063.6
8589.3	5°	8408.8	7955.1	7609.7	7377.7	7238.5	7284.9	7336.5	7393.2	7614.9	7764.4
8156.2	7.5°	7805.6	7109.6	6583.7	6258.9	6088.8	6114.6	6150.7	6197.1	6413.6	6563.1
8218.1	10°	7692.2	6692.0	5949.6	5521.7	5315.4	5279.4	5258.7	5243.3	5372.2	5485.6
8919.2	12.5°	8156.2	6712.6	5676.3	5155.6	4903.0	4794.7	4671.0	4573.0	4593.7	4665.8
9981.3	15°	8986.3	6975.6	5588.7	4964.9	4650.4	4469.9	4325.6	4207.0	4181.2	4207.0
10909.3	17.5°	9934.9	7331.3	5578.4	4799.9	4408.1	4222.5	4103.9	3995.6	3959.5	3964.7
11430.0	20°	10563.9	7614.9	5547.5	4614.3	4176.1	4011.1	3908.0	3799.7	3763.6	3773.9
11285.7	22.5°	10625.7	7764.4	5501.1	4408.1	3944.1	3804.9	3701.7	3603.8	3598.6	3598.6
10744.3	25°	10290.6	7764.4	5403.1	4222.5	3722.4	3598.6	3505.8	3387.2	3407.9	3418.2
10130.8	27.5°	9769.9	7578.8	5217.5	4072.9	3531.6	3402.7	3309.9	3201.6	3227.4	3242.9
9558.5	30°	9254.3	7341.6	4995.8	3902.8	3351.2	3201.6	3134.6	3041.8	3052.1	3072.8
8991.4	32.5°	8774.9	7089.0	4732.9	3763.6	3170.7	3021.2	2969.6	2866.5	2882.0	2902.6
8434.6	35°	8300.6	6810.6	4423.5	3598.6	3005.7	2856.2	2815.0	2696.4	2706.7	2737.6
7877.8	37.5°	7790.1	6516.7	4170.9	3433.6	2845.9	2691.2	2650.0	2526.3	2536.6	2572.7
7300.4	40°	7254.0	6228.0	3923.4	3258.4	2675.8	2521.1	2485.0	2351.0	2361.3	2402.5
6733.2	42.5°	6712.6	5913.5	3732.7	3031.5	2500.5	2335.5	2299.4	2175.7	2191.1	2237.5
6238.3	45°	6212.5	5537.1	3608.9	2778.9	2335.5	2149.9	2113.8	2000.4	2031.3	2082.9
5820.7	47.5°	5784.6	5150.5	3557.4	2567.5	2160.2	1959.1	1928.2	1835.4	1887.0	1943.7
5465.0	50°	5418.6	4779.3	3490.4	2351.0	1995.2	1794.2	1763.2	1701.4	1768.4	1825.1
5222.6	52.5°	5155.6	4356.5	3346.0	2155.1	1850.9	1655.0	1644.6	1613.7	1675.6	1727.1
5042.2	55°	4928.8	3918.3	3114.0	1984.9	1722.0	1536.4	1546.7	1531.2	1582.8	1624.0
4933.9	57.5°	4722.6	3536.8	2820.1	1850.9	1582.8	1433.3	1464.2	1443.6	1469.4	1495.1
4820.5	60°	4475.1	3150.1	2469.5	1701.4	1417.8	1330.2	1366.2	1309.5	1304.4	1314.7
4614.3	62.5°	4109.0	2629.4	2103.5	1515.8	1273.4	1216.7	1232.2	1123.9	1041.4	1041.4
4310.1	65°	3598.6	2113.8	1763.2	1309.5	1108.5	1062.1	1051.7	897.1	783.7	773.3
3980.1	67.5°	3005.7	1737.4	1464.2	1103.3	922.9	891.9	902.2	788.8	675.4	665.1
3650.2	70°	2448.9	1438.4	1180.6	881.6	711.5	742.4	788.8	675.4	567.1	551.7
3263.5	72.5°	1990.1	1144.5	922.9	675.4	525.9	613.5	670.2	551.7	448.5	438.2
2784.0	75°	1536.4	840.4	659.9	458.9	381.5	474.3	525.9	402.1	319.6	304.2
2155.1	77.5°	1026.0	520.7	371.2	288.7	226.8	324.8	350.6	211.4	185.6	180.4
1567.3	80°	623.8	242.3	159.8	139.2	77.3	118.6	139.2	87.6	98.0	103.1
835.2	82.5°	314.5	67.0	25.8	5.2	0.0	0.0	41.2	20.6	41.2	51.6
226.8	85°	25.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.3	25.8
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

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 CATALOG NUMBER: GALN-SB9D-740-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
10362.8	0°	10362.8	10362.8	10362.8	10362.8	10362.8	10362.8	10362.8	10362.8	10362.8	10362.8
9104.8	2.5°	9393.5	9610.1	9816.3	10146.3	10486.5	10821.7	11161.9	11491.9	11610.5	11698.1
7862.3	5°	8310.9	8718.2	9192.5	9847.2	10548.4	11270.2	12002.3	12672.5	12976.7	13182.9
6692.0	7.5°	7192.1	7723.1	8403.7	9388.4	10486.5	11636.2	12786.0	13842.9	14332.6	14729.6
5588.7	10°	6083.6	6661.1	7522.1	8646.0	10130.8	11780.6	13368.5	14822.4	15456.6	15956.7
4794.7	12.5°	5109.2	5650.6	6552.8	7795.3	9574.0	11667.2	13703.7	15451.4	16199.0	16760.9
4227.6	15°	4423.5	4805.0	5604.2	6944.6	8914.1	11301.1	13724.3	15750.4	16570.2	17157.9
3990.5	17.5°	4042.0	4170.9	4691.6	6078.5	8182.0	10821.7	13533.5	15853.5	16730.0	17276.5
3779.1	20°	3835.8	3856.4	4000.8	4954.6	7243.7	10373.1	13353.1	15956.7	16879.5	17338.4
3629.6	22.5°	3670.8	3670.8	3706.9	4052.3	6032.1	9836.9	13296.4	16137.1	17085.7	17369.3
3459.4	25°	3521.3	3521.3	3531.6	3624.4	4779.3	9017.2	13260.3	16415.5	17369.3	17446.6
3289.3	27.5°	3366.6	3371.8	3371.8	3423.3	3851.3	7903.6	13105.6	16776.4	17709.6	17549.7
3124.3	30°	3212.0	3222.3	3222.3	3258.4	3407.9	6599.2	12801.4	17209.5	18153.0	17683.8
2959.3	32.5°	3057.3	3067.6	3067.6	3098.5	3206.8	5269.0	12419.9	17606.5	18601.5	17740.5
2799.5	35°	2897.5	2912.9	2902.6	2943.9	3057.3	4191.5	11935.3	18003.4	19086.1	17921.0
2644.8	37.5°	2737.6	2747.9	2742.8	2784.0	2912.9	3619.2	11373.3	18302.5	19746.0	18323.1
2479.9	40°	2577.8	2572.7	2572.7	2619.1	2758.3	3454.3	10667.0	18776.8	20694.7	19029.4
2314.9	42.5°	2412.8	2412.8	2402.5	2454.1	2624.2	3330.5	9991.6	19627.5	22076.4	20153.3
2160.2	45°	2263.3	2258.2	2237.5	2283.9	2495.3	3114.0	9754.4	21215.4	24118.0	21973.3
2005.5	47.5°	2119.0	2113.8	2062.3	2103.5	2340.7	2918.1	10641.2	23813.8	26948.5	24649.0
1881.8	50°	1990.1	1995.2	1897.3	1933.4	2186.0	2768.6	12564.3	27185.6	30706.9	28252.8
1778.7	52.5°	1871.5	1871.5	1742.6	1763.2	1995.2	2634.5	14394.5	30841.0	35666.6	33279.6
1670.4	55°	1752.9	1742.6	1598.2	1608.6	1804.5	2443.8	14667.8	34408.6	42430.8	40842.9
1551.8	57.5°	1618.9	1598.2	1464.2	1464.2	1629.2	2304.6	12713.8	37151.4	50824.2	51958.4
1330.2	60°	1453.9	1438.4	1350.8	1325.0	1490.0	2428.3	8970.8	37471.1	56237.6	66739.6
1056.9	62.5°	1242.5	1263.1	1216.7	1180.6	1355.9	2521.1	5315.4	34898.4	54928.0	71441.5
819.7	65°	979.6	1062.1	1051.7	1026.0	1490.0	2124.1	3139.8	29959.3	50911.8	67647.0
716.6	67.5°	835.2	891.9	876.5	876.5	1562.2	1613.7	1974.6	23406.5	45385.0	63146.1
598.1	70°	711.5	768.2	711.5	711.5	1180.6	979.6	1366.2	16343.3	39419.9	58165.8
479.5	72.5°	587.7	644.5	582.6	541.3	943.5	732.1	1000.2	10213.3	33759.0	52979.2
340.3	75°	448.5	515.6	469.2	417.6	623.8	546.5	757.9	5934.1	27969.3	45328.3
206.2	77.5°	283.6	371.2	350.6	293.9	458.9	397.0	546.5	3531.6	21581.4	35419.1
123.7	80°	175.3	190.8	195.9	185.6	262.9	268.1	371.2	2010.7	14770.9	24685.1
77.3	82.5°	113.4	113.4	87.6	98.0	128.9	154.7	211.4	757.9	8682.1	15028.6
46.4	85°	82.5	72.2	46.4	46.4	61.9	77.3	82.5	232.0	3521.3	5934.1
20.6	87.5°	41.2	36.1	15.5	20.6	30.9	25.8	20.6	10.3	886.8	1897.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P957420
 CATALOG NUMBER: GALN-SB9D-740-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

285°		295°	305°	315°	325°	335°	345°	355°	360°
10362.8	0°	10362.8	10362.8	10362.8	10362.8	10362.8	10362.8	10362.8	10362.8
11894.0	2.5°	11997.1	12157.0	12167.3	12167.3	12028.1	12022.9	11739.4	11708.4
13646.9	5°	14126.4	14229.5	14255.3	14203.7	13925.3	13719.1	13167.5	13048.9
15435.9	7.5°	16075.2	16281.5	16281.5	16157.7	15704.0	15281.3	14482.2	14183.1
16915.6	10°	17632.2	17869.4	17817.8	17565.2	16992.9	16410.4	15441.1	15049.3
17812.7	12.5°	18390.1	18632.4	18498.4	18209.7	17652.9	17039.3	16018.5	15575.1
18070.5	15°	18374.6	18307.6	18168.4	18132.3	17864.2	17400.2	16446.4	15961.8
17910.6	17.5°	17719.9	17152.8	17044.5	17405.4	17745.7	17632.2	16817.6	16364.0
17529.1	20°	16683.6	15693.7	15595.8	16286.6	17255.9	17750.8	17163.1	16745.5
16977.5	22.5°	15590.6	14523.4	14296.5	15059.6	16518.6	17786.9	17601.3	17183.7
16369.1	25°	14554.3	13482.0	13255.1	13966.6	15698.9	17725.0	18075.6	17719.9
15786.5	27.5°	13688.2	12651.9	12440.5	13152.0	14910.1	17549.7	18549.9	18297.3
15209.1	30°	13018.0	12059.0	11904.3	12590.0	14229.5	17333.2	19153.1	19013.9
14672.9	32.5°	12626.1	11925.0	11981.7	12543.6	13863.5	17096.1	19730.6	19797.6
14410.0	35°	13012.8	13043.7	13538.7	13770.7	14203.7	17060.0	20514.2	20777.2
14724.5	37.5°	14935.8	16008.2	17034.2	16843.4	15869.0	17477.6	21684.6	22174.3
16095.9	40°	18209.7	20411.1	22076.4	21349.4	18895.4	18756.2	23370.4	24102.5
18529.3	42.5°	22210.4	25943.1	28685.9	26737.1	22798.2	20993.7	25778.1	26711.3
21473.2	45°	26432.9	32764.0	37084.4	33032.1	26958.8	24128.3	29423.2	30155.3
24231.4	47.5°	30882.2	41054.2	46642.9	40012.8	30815.2	27696.0	34393.2	34563.3
26845.3	50°	35749.1	50143.6	56387.1	46988.4	34537.5	31784.4	40466.5	40270.6
29892.3	52.5°	40384.0	59490.8	65925.0	53994.9	37806.2	36857.6	47514.2	47112.1
34058.1	55°	44807.5	68832.8	75519.6	60728.1	40889.3	43559.9	55887.0	53453.5
40064.4	57.5°	49937.4	77231.3	85408.1	67492.3	45199.4	52262.6	65249.6	57134.6
51566.6	60°	57521.3	86774.3	96590.6	76762.1	53396.8	61408.7	68605.9	56433.5
65342.4	62.5°	67203.6	95549.2	104721.1	85846.3	61630.3	63130.6	63661.7	51030.4
62532.6	65°	69085.4	97771.3	105179.9	88274.6	60568.3	53551.5	51973.9	41018.2
55856.0	67.5°	64094.7	93755.0	98766.3	83753.1	53577.3	41384.2	39002.3	29758.3
51473.8	70°	58495.7	86098.9	87588.9	76066.1	47122.4	30438.8	26340.1	19096.4
48473.2	72.5°	52757.5	75885.6	72802.6	66059.0	41415.1	22164.0	18998.5	13574.8
44199.2	75°	45941.8	62455.2	57346.0	54886.8	34290.1	17395.1	13744.9	9367.8
38017.6	77.5°	36790.5	43962.0	42595.8	42544.2	25767.8	12708.6	9171.9	5872.3
29701.6	80°	25953.4	28531.2	27835.2	32042.2	17286.8	9218.3	5521.7	3268.7
20674.1	82.5°	12564.3	15776.2	16193.8	19081.0	8408.8	5423.7	1273.4	711.5
8084.0	85°	4918.5	7609.7	6418.8	7243.7	2361.3	1510.6	30.9	0.0
1330.2	87.5°	551.7	881.6	809.4	639.3	288.7	61.9	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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