

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: P452408

Luminaire Tested: **GALN-SA3B-760-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452408  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3B-760-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12199 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

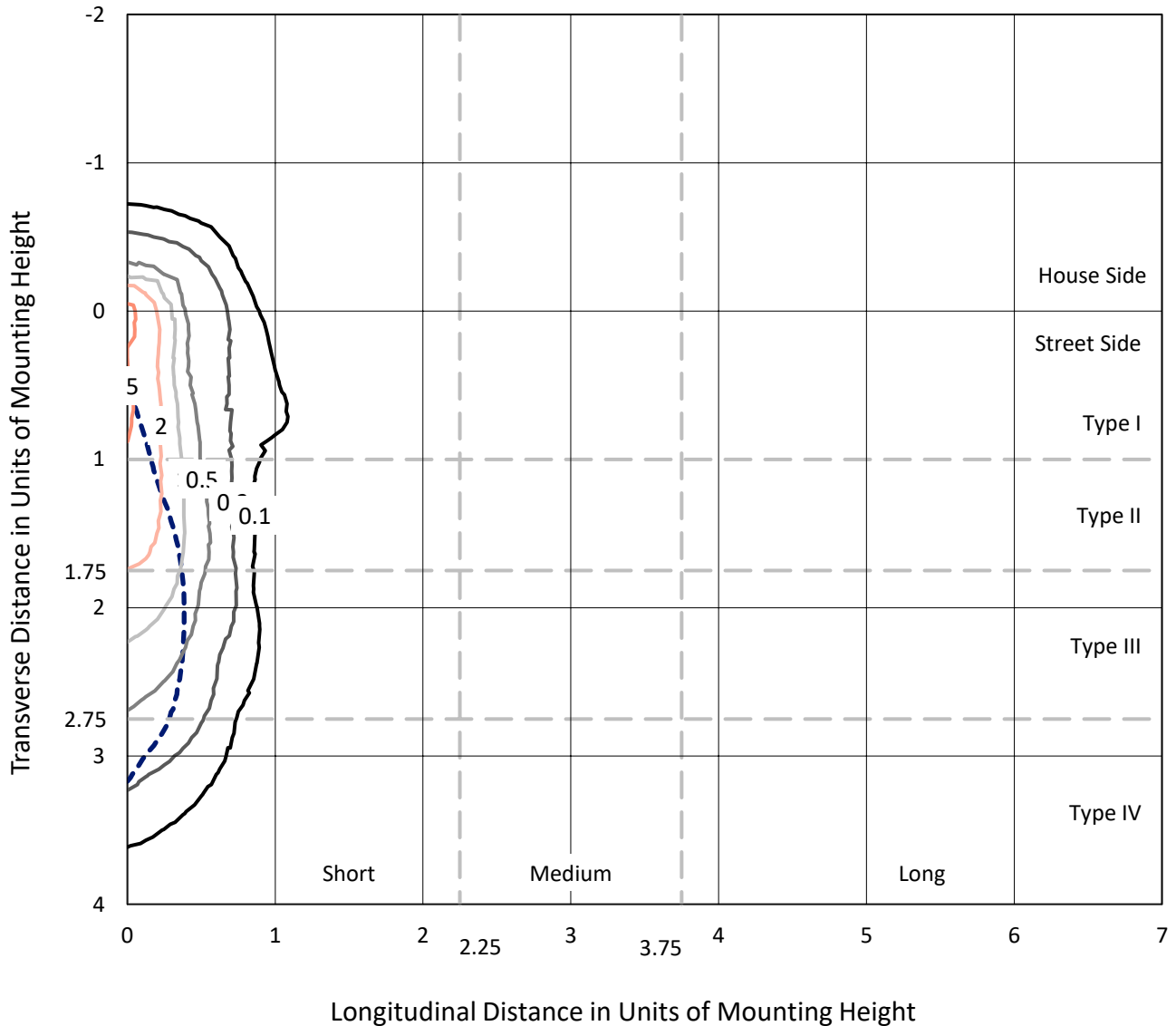
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P452408  
 CATALOG NUMBER: GALN-SA3B-760-U-SLR-HSS

### Iso-Footcandle Lines of Horizontal Illumination

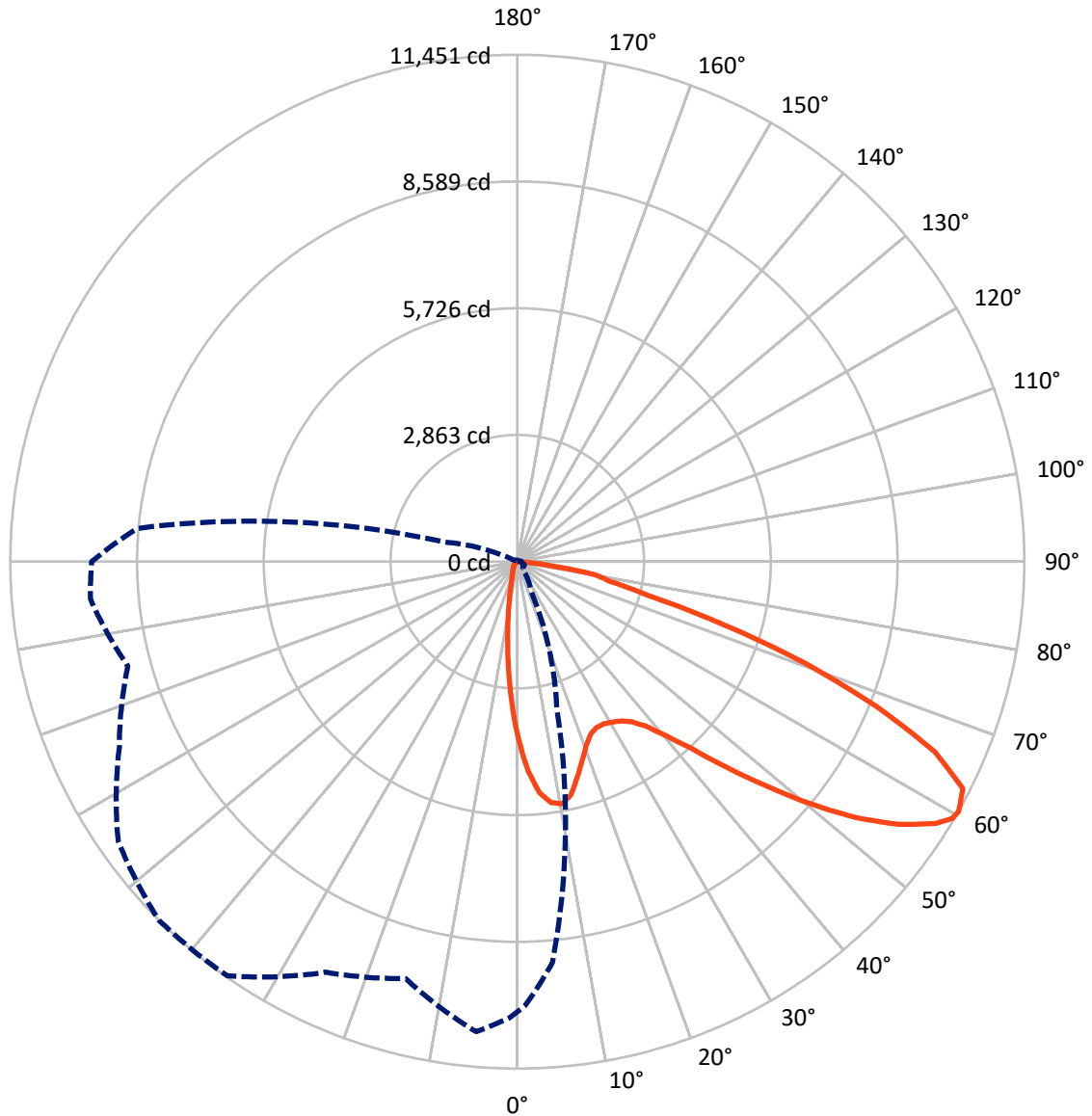
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc  
 Type IV - Short - N/A

REPORT NUMBER: P452408  
CATALOG NUMBER: GALN-SA3B-760-U-SLR-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

REPORT NUMBER: P452408

CATALOG NUMBER: GALN-SA3B-760-U-SLR-HSS

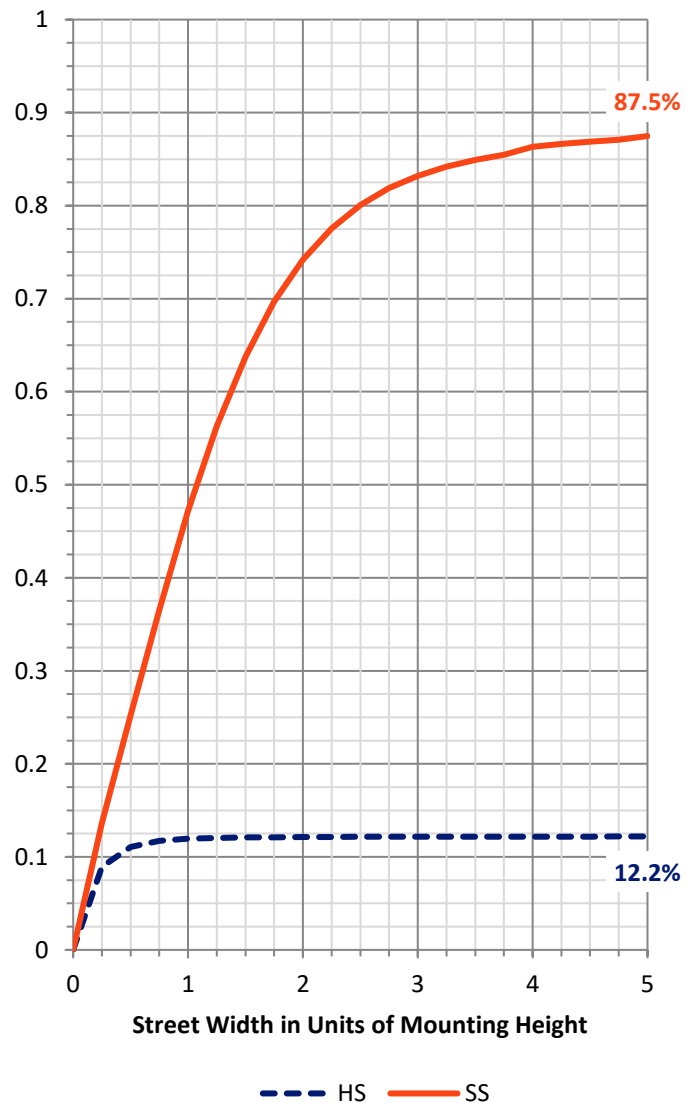
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1504.6	0.0	1504.6
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	10694.4	0.0	10694.4
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	12199.0	0.0	12199.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	299.9	2.5
10°-20°	595.6	4.9
20°-30°	873.3	7.2
30°-40°	1298.7	10.6
40°-50°	1890.0	15.5
50°-60°	2725.5	22.3
60°-70°	2997.8	24.6
70°-80°	1342.8	11.0
80°-90°	175.5	1.4
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°	12199.0	100.0
0°-180°	12199.0	100.0



REPORT NUMBER: P452408

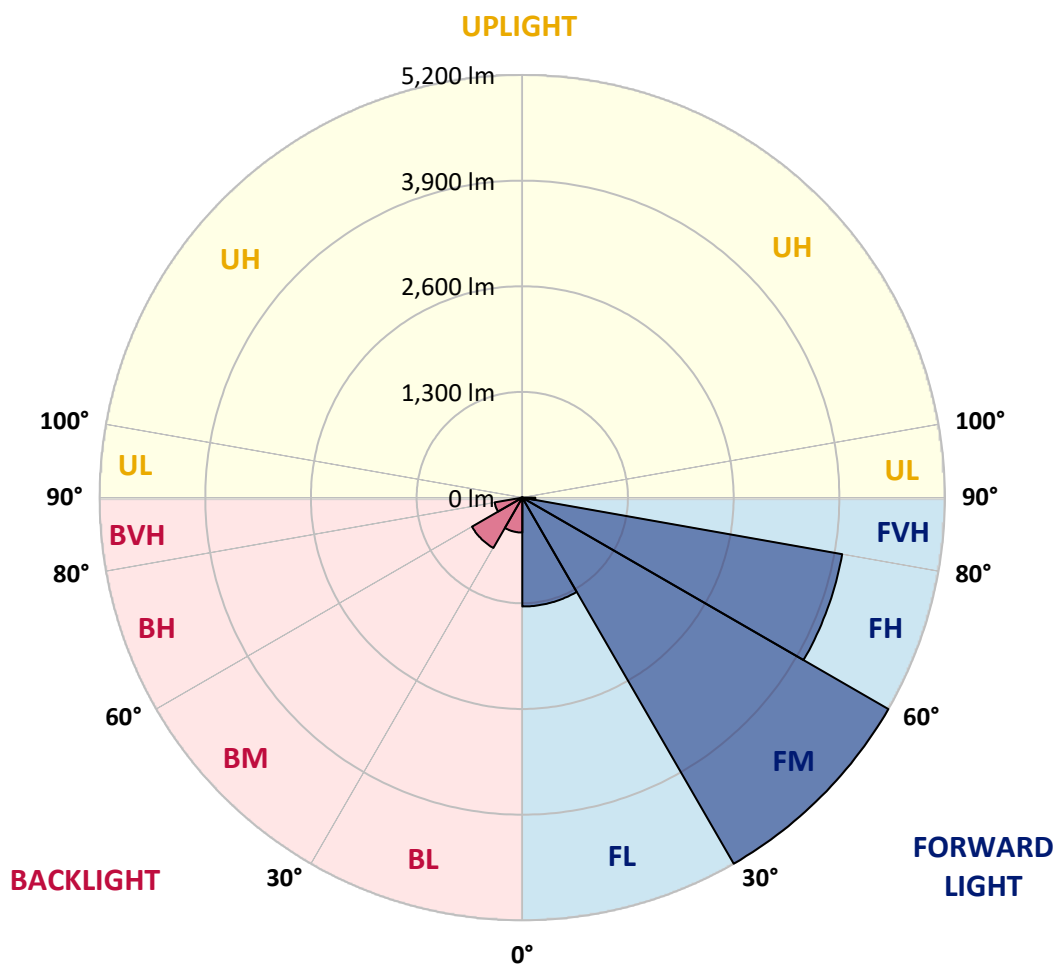
CATALOG NUMBER: GALN-SA3B-760-U-SLR-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1338.8	11.0			
FM	(30°-60°)	5199.6	42.6			
FH	(60°-80°)	3995.5	32.8			G2/5000
FVH	(80°-90°)	160.5	1.3			G2/225
BL	(0°-30°)	429.9	3.5	B1/500		
BM	(30°-60°)	714.7	5.9	B1/1000		
BH	(60°-80°)	345.0	2.8	B1/500		G1/500
BVH	(80°-90°)	15.0	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





REPORT NUMBER: P452408

CATALOG NUMBER: GALN-SA3B-760-U-SLR-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4031.9	4031.9	4031.9	4031.9	4031.9	4031.9	4031.9	4031.9	4031.9	4031.9	4031.9
2.5°	4432.5	4413.1	4368.6	4233.2	4115.4	3961.5	3805.7	3683.3	3608.2	3470.0	3406.9
5°	4294.4	4303.6	4174.7	3896.6	3586.8	3375.4	3144.5	2960.9	2758.7	2630.8	2496.3
7.5°	3933.6	3915.1	3775.1	3387.5	3011.0	2705.0	2412.9	2175.5	2026.2	1906.5	1806.4
10°	3624.9	3610.9	3432.0	2933.1	2528.8	2299.7	2102.2	1894.5	1734.1	1558.8	1418.8
12.5°	3431.0	3399.5	3193.7	2672.5	2343.3	2130.0	1914.9	1698.8	1477.2	1300.1	1130.4
15°	3366.1	3320.7	3091.7	2582.6	2224.6	1953.8	1684.0	1435.5	1180.5	984.8	856.8
17.5°	3483.9	3408.8	3164.9	2566.8	2082.7	1723.9	1391.9	1068.3	803.1	653.8	574.9
20°	3753.8	3667.5	3350.4	2551.0	1925.1	1466.1	1058.1	754.8	555.5	473.9	430.3
22.5°	4154.3	4035.7	3624.9	2576.1	1779.5	1214.8	764.1	533.2	441.4	390.4	359.8
25°	4635.6	4536.4	3972.6	2665.1	1664.5	1017.3	590.7	435.8	371.9	340.3	317.1
27.5°	5163.3	5004.7	4422.3	2771.7	1559.7	864.3	518.4	389.5	331.0	302.3	290.2
30°	5538.8	5415.5	4798.8	2845.9	1429.0	749.3	473.9	383.9	332.0	297.7	275.4
32.5°	5909.7	5752.1	5114.1	2880.2	1333.5	669.5	409.9	334.8	291.2	273.6	251.3
35°	6306.6	6141.6	5428.5	2861.7	1262.1	616.7	371.9	298.6	249.4	219.8	197.5
37.5°	6708.2	6533.8	5741.0	2794.9	1217.6	595.3	342.2	283.8	235.5	204.9	180.8
40°	7184.8	6952.0	6034.0	2740.2	1171.2	584.2	322.7	274.5	225.3	192.9	168.8
42.5°	7574.3	7352.6	6311.3	2711.5	1139.7	558.2	322.7	267.1	218.8	182.7	157.6
45°	7943.3	7713.4	6610.8	2734.6	1126.7	525.8	326.4	266.1	214.2	175.3	150.2
47.5°	8252.1	8052.8	6918.7	2821.8	1110.0	490.5	306.9	279.1	211.4	168.8	142.8
50°	8616.6	8423.7	7325.7	2998.0	1080.3	455.3	282.8	300.4	210.5	163.2	136.3
52.5°	9130.3	8921.6	7887.7	3198.3	1033.0	401.5	260.6	297.7	206.8	153.9	129.8
55°	9758.1	9589.3	8538.7	3438.5	968.1	341.3	225.3	264.3	195.7	138.2	118.7
57.5°	10160.5	10016.8	9026.4	3542.3	868.9	279.1	198.4	221.6	179.0	123.3	105.7
59°	10207.8	10078.0	9128.4	3508.0	804.0	255.0	185.5	190.1	174.3	115.0	98.3
60°	10168.0	10033.5	9087.6	3441.2	743.7	238.3	174.3	168.8	175.3	110.3	92.7
62.5°	9912.0	9682.0	8691.7	3102.8	650.0	218.8	154.9	138.2	154.9	99.2	82.5
65°	9417.8	9072.8	7908.1	2626.1	613.0	207.7	131.7	115.9	117.8	87.2	71.4
67.5°	8554.4	8119.5	6864.9	2133.7	597.2	208.6	111.3	103.9	90.9	74.2	63.1
70°	7189.4	6755.5	5508.2	1755.4	589.8	208.6	94.6	89.0	76.0	62.1	54.7
72.5°	5094.6	4627.3	3715.7	1378.9	531.3	207.7	80.7	80.7	62.1	51.9	44.5
75°	2878.4	2882.1	2335.9	975.5	441.4	171.6	64.9	64.0	45.4	39.9	33.4
77.5°	1677.5	1647.8	1574.6	419.1	204.9	77.9	45.4	38.9	31.5	28.7	24.1
80°	862.4	709.4	690.8	152.1	73.3	49.1	31.5	22.3	20.4	18.5	16.7
82.5°	255.0	255.9	228.1	61.2	40.8	32.5	15.8	12.1	11.1	10.2	10.2
85°	17.6	11.1	13.0	18.5	25.0	13.0	0.9	2.8	2.8	3.7	4.6
87.5°	1.9	0.9	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: P452408

CATALOG NUMBER: GALN-SA3B-760-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4031.9	4031.9	4031.9	4031.9	4031.9	4031.9	4031.9	4031.9	4031.9	4031.9	4031.9
2.5°	3337.4	3378.2	3302.2	3304.0	3240.9	3261.3	3187.2	3211.3	3167.7	3201.1	3299.4
5°	2511.2	2520.4	2459.2	2439.8	2449.0	2487.0	2501.9	2434.2	2462.9	2406.4	2402.7
7.5°	1769.3	1780.4	1745.2	1740.6	1807.3	1791.6	1820.3	1750.8	1684.9	1713.7	1660.8
10°	1374.3	1327.9	1255.6	1235.2	1222.2	1230.5	1230.5	1167.5	1158.2	1133.2	1171.2
12.5°	1085.0	1028.4	959.8	867.0	843.9	842.0	807.7	752.0	734.4	713.1	744.6
15°	788.2	765.0	707.5	655.6	602.8	592.6	536.9	491.5	431.2	422.9	420.1
17.5°	554.5	520.2	519.3	489.6	459.0	438.6	386.7	334.8	311.6	308.8	308.8
20°	415.4	403.4	383.9	380.2	370.9	347.7	301.4	273.6	262.4	263.4	267.1
22.5°	349.6	341.3	323.6	315.3	311.6	291.2	256.9	238.3	232.8	232.8	233.7
25°	312.5	305.1	285.6	272.6	268.0	253.2	226.3	212.4	207.7	207.7	207.7
27.5°	284.7	275.4	255.0	243.9	235.5	218.8	202.2	188.2	183.6	183.6	184.5
30°	265.2	255.0	236.5	221.6	208.6	193.8	179.9	167.8	162.3	161.4	162.3
32.5°	239.2	230.0	211.4	202.2	187.3	169.7	158.6	147.4	141.9	142.8	141.9
35°	186.4	183.6	170.6	173.4	165.1	150.2	140.0	128.0	121.5	120.6	122.4
37.5°	169.7	158.6	143.7	144.7	141.9	136.3	119.6	106.6	102.0	102.0	102.9
40°	156.7	145.6	128.9	120.6	121.5	121.5	103.9	89.9	85.3	84.4	86.2
42.5°	145.6	134.5	115.9	102.0	98.3	102.9	88.1	74.2	69.5	67.7	69.5
45°	138.2	126.1	104.8	89.0	77.9	83.5	72.3	61.2	55.6	55.6	54.7
47.5°	130.8	119.6	96.4	77.0	64.9	62.1	59.3	49.1	43.6	42.7	43.6
50°	124.3	113.1	87.2	66.8	54.7	48.2	48.2	38.9	35.2	33.4	34.3
52.5°	117.8	105.7	78.8	59.3	47.3	38.9	34.3	31.5	28.7	27.8	28.7
55°	108.5	96.4	70.5	51.0	40.8	32.5	26.9	26.0	24.1	22.3	24.1
57.5°	97.4	86.2	62.1	43.6	32.5	25.0	22.3	21.3	19.5	18.5	18.5
59°	90.9	80.7	57.5	38.0	28.7	22.3	20.4	19.5	17.6	15.8	16.7
60°	87.2	78.8	54.7	35.2	26.0	20.4	18.5	17.6	15.8	14.8	15.8
62.5°	77.0	70.5	48.2	28.7	20.4	14.8	13.0	13.9	13.0	12.1	13.0
65°	67.7	62.1	40.8	22.3	15.8	10.2	9.3	12.1	11.1	10.2	11.1
67.5°	60.3	53.8	34.3	16.7	11.1	5.6	6.5	10.2	10.2	9.3	10.2
70°	51.9	46.4	27.8	12.1	5.6	2.8	4.6	7.4	9.3	8.3	9.3
72.5°	42.7	36.2	21.3	8.3	2.8	0.0	2.8	6.5	9.3	8.3	9.3
75°	33.4	26.9	15.8	4.6	0.0	0.0	0.9	5.6	9.3	8.3	9.3
77.5°	24.1	19.5	9.3	0.9	0.0	0.0	0.9	5.6	9.3	8.3	9.3
80°	15.8	13.9	3.7	0.0	0.0	0.0	0.9	5.6	9.3	9.3	10.2
82.5°	10.2	7.4	0.0	0.0	0.0	0.0	1.9	7.4	10.2	11.1	11.1
85°	4.6	0.0	0.0	0.0	0.0	0.0	3.7	9.3	12.1	12.1	12.1
87.5°	0.0	0.0	0.0	0.0	0.0	1.9	6.5	11.1	13.9	13.9	13.9
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°	4031.9	4031.9	4031.9	4031.9	4031.9	4031.9	4031.9	4031.9	4031.9	4031.9	4031.9
2.5°	3316.1	3374.5	3457.0	3584.1	3687.0	3849.3	3973.5	4143.2	4314.8	4366.7	4447.4
5°	2440.7	2515.8	2703.1	2873.7	2981.3	3324.4	3541.4	3883.6	4190.5	4338.0	4498.4
7.5°	1695.1	1784.1	1927.0	2165.3	2391.5	2670.7	3021.2	3412.5	3862.2	4072.7	4299.0
10°	1189.7	1301.0	1502.2	1697.9	1982.6	2247.8	2593.7	3025.8	3521.9	3770.4	4054.2
12.5°	751.1	850.3	1116.5	1336.3	1691.4	1999.3	2318.3	2709.6	3284.5	3539.5	3837.2
15°	429.3	512.8	637.1	919.0	1313.1	1720.2	2118.0	2572.4	3163.1	3477.4	3799.2
17.5°	319.9	342.2	397.8	557.3	916.2	1391.9	1933.4	2530.6	3245.6	3614.7	3981.9
20°	268.9	283.8	309.7	372.8	584.2	1072.0	1753.5	2538.0	3512.7	3976.3	4325.0
22.5°	241.1	250.4	271.7	312.5	398.7	780.8	1543.0	2581.6	3836.3	4420.5	4822.9
25°	211.4	223.5	242.0	277.3	332.0	541.5	1335.3	2679.0	4289.7	4984.3	5362.6
27.5°	188.2	199.4	217.9	250.4	291.2	413.6	1093.3	2762.5	4768.2	5551.8	5861.5
30°	165.1	176.2	194.7	220.7	257.8	334.8	832.7	2811.6	5232.8	5977.4	6215.8
32.5°	145.6	154.9	172.5	195.7	226.3	283.8	656.5	2760.6	5588.0	6364.1	6523.6
35°	126.1	137.2	152.1	173.4	200.3	242.0	546.2	2584.4	5893.1	6761.9	6819.4
37.5°	105.7	118.7	134.5	153.9	175.3	222.6	438.6	2389.7	6219.5	7258.1	7163.5
40°	89.0	101.1	115.9	137.2	156.7	204.0	337.5	2182.0	6571.8	7723.6	7539.0
42.5°	72.3	85.3	102.9	122.4	154.9	178.0	261.5	1966.8	6888.1	8128.8	7878.4
45°	57.5	68.6	87.2	112.2	153.9	153.0	202.2	1754.5	7126.4	8418.1	8131.6
47.5°	45.4	54.7	73.3	109.4	141.9	129.8	162.3	1622.8	7376.8	8678.7	8325.4
50°	36.2	45.4	63.1	114.1	124.3	111.3	136.3	1644.1	7618.8	8811.3	8405.1
52.5°	30.6	39.9	54.7	89.9	95.5	97.4	119.6	1742.4	7931.3	8953.2	8563.7
55°	26.9	35.2	46.4	63.1	74.2	87.2	109.4	1813.8	8349.5	9257.3	8913.3
57.5°	21.3	30.6	41.7	53.8	61.2	76.0	101.1	1819.4	8727.8	9647.7	9377.9
59°	19.5	27.8	38.9	51.0	54.7	68.6	95.5	1772.1	8741.8	9706.2	9591.2
60°	17.6	26.9	37.1	47.3	51.9	64.9	90.9	1717.4	8615.6	9613.4	9679.3
62.5°	14.8	23.2	32.5	38.0	44.5	53.8	78.8	1518.9	8004.5	9193.4	9516.1
65°	13.0	20.4	27.8	31.5	37.1	46.4	69.5	1215.7	7329.5	8624.0	9048.7
67.5°	12.1	18.5	24.1	26.9	32.5	42.7	62.1	858.7	6455.0	7901.6	8346.7
70°	11.1	17.6	21.3	25.0	28.7	36.2	52.9	500.7	4972.2	6634.9	7105.0
72.5°	11.1	16.7	18.5	21.3	25.0	32.5	49.1	270.8	3399.5	5061.3	5668.6
75°	11.1	15.8	16.7	18.5	22.3	29.7	43.6	141.9	2197.7	3516.4	4339.8
77.5°	11.1	14.8	16.7	17.6	21.3	26.0	38.0	89.0	1464.2	2462.9	2933.1
80°	12.1	14.8	15.8	17.6	20.4	24.1	31.5	59.3	860.5	1481.8	1785.1
82.5°	13.0	14.8	16.7	18.5	21.3	23.2	27.8	37.1	396.9	980.2	1109.1
85°	13.9	15.8	17.6	19.5	22.3	23.2	26.0	26.9	64.9	442.3	598.1
87.5°	14.8	16.7	18.5	20.4	24.1	24.1	24.1	24.1	22.3	47.3	120.6
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: P452408

CATALOG NUMBER: GALN-SA3B-760-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4031.9	4031.9	4031.9	4031.9	4031.9	4031.9	4031.9	4031.9	4031.9	4031.9
2.5°	4549.4	4654.2	4727.4	4746.0	4693.1	4669.0	4602.2	4498.4	4435.3	4432.5
5°	4794.2	5039.9	5210.6	5239.3	5137.3	4964.8	4759.9	4495.6	4340.7	4294.4
7.5°	4752.5	5182.7	5457.2	5497.1	5325.5	4996.3	4599.5	4173.8	4005.1	3933.6
10°	4580.9	5105.8	5498.0	5561.1	5332.0	4868.4	4363.9	3889.1	3679.6	3624.9
12.5°	4434.4	4964.8	5313.5	5400.7	5227.2	4764.5	4223.0	3706.5	3482.0	3431.0
15°	4370.4	4797.9	5011.2	5055.7	5026.9	4699.6	4208.1	3678.6	3421.8	3366.1
17.5°	4434.4	4656.0	4682.9	4728.4	4792.3	4693.1	4350.9	3829.8	3552.5	3483.9
20°	4602.2	4532.7	4421.4	4440.9	4587.4	4720.0	4605.0	4164.5	3827.0	3753.8
22.5°	4887.9	4502.1	4249.9	4233.2	4418.6	4810.0	4977.8	4618.0	4226.7	4154.3
25°	5238.4	4579.1	4186.8	4150.6	4352.8	4941.6	5383.0	5173.5	4746.0	4635.6
27.5°	5620.4	4738.6	4186.8	4151.6	4347.2	5058.5	5729.8	5664.9	5283.8	5163.3
30°	5830.0	4870.2	4247.1	4207.2	4415.9	5126.2	5915.3	6101.7	5688.1	5538.8
32.5°	6017.3	5052.9	4364.8	4289.7	4559.6	5226.3	6081.3	6472.6	6009.9	5909.7
35°	6189.8	5248.6	4527.1	4440.0	4748.8	5363.6	6264.9	6862.1	6457.8	6306.6
37.5°	6379.9	5475.8	4780.3	4706.1	5065.0	5630.6	6482.8	7374.0	6898.3	6708.2
40°	6586.7	5739.1	5196.6	5165.1	5567.6	5932.9	6758.2	7920.2	7400.9	7184.8
42.5°	6797.2	6042.4	5706.7	5758.6	6136.9	6356.7	7041.1	8340.2	7812.6	7574.3
45°	6988.2	6430.0	6369.7	6626.6	6800.9	6770.3	7250.6	8636.0	8171.5	7943.3
47.5°	7229.3	6994.7	7171.8	7567.8	7572.4	7220.0	7409.2	8878.1	8480.2	8252.1
50°	7499.2	7661.4	8207.6	8611.0	8502.5	7662.4	7594.7	9164.6	8799.2	8616.6
52.5°	7811.7	8407.9	9164.6	9612.5	9359.3	8144.6	7903.5	9474.3	9305.6	9130.3
55°	8175.2	8917.0	10118.8	10475.8	10220.8	8743.6	8372.7	9894.4	9877.7	9758.1
57.5°	8586.0	9454.9	10671.5	11154.6	10927.4	9446.5	9028.3	10290.4	10227.3	10160.5
59°	8910.5	9731.2	10915.4	11416.1	11278.9	9938.9	9468.8	10537.0	10308.0	10207.8
60°	9107.1	9918.5	11005.3	11451.4	11419.8	10231.9	9747.9	10657.6	10307.1	10168.0
62.5°	9690.4	10245.8	10971.0	11294.6	11418.0	10793.9	10566.7	10790.2	10116.0	9912.0
65°	9898.1	10137.4	10402.6	10362.7	10468.4	10765.1	11089.7	10644.6	9708.0	9417.8
67.5°	9493.8	8947.6	9041.3	8775.1	8723.2	9570.8	10877.3	9932.4	8909.6	8554.4
70°	8002.7	6854.7	6807.4	6929.8	6594.1	7748.6	9767.4	8560.9	7591.9	7189.4
72.5°	6299.2	4844.3	4445.5	4896.2	4886.0	5911.6	8114.0	6074.8	5129.0	5094.6
75°	4953.7	3372.6	2960.0	3033.2	3174.2	4279.5	6462.4	3857.6	3158.4	2878.4
77.5°	3325.3	2389.7	2229.3	2139.3	2291.4	2747.6	4088.5	2092.0	1771.2	1677.5
80°	1916.7	1735.9	1971.5	1789.7	1871.3	1731.3	2033.6	959.8	796.6	862.4
82.5°	1247.2	988.5	1053.4	782.6	1070.1	1079.4	652.8	283.8	240.2	255.0
85°	779.9	463.7	260.6	185.5	369.1	678.8	204.0	17.6	20.4	17.6
87.5°	202.2	77.0	32.5	48.2	59.3	52.9	47.3	2.8	0.9	1.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)