

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: P452406

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452406
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
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-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT 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 III - Short
BUG Rating: B1 - U0 - G2

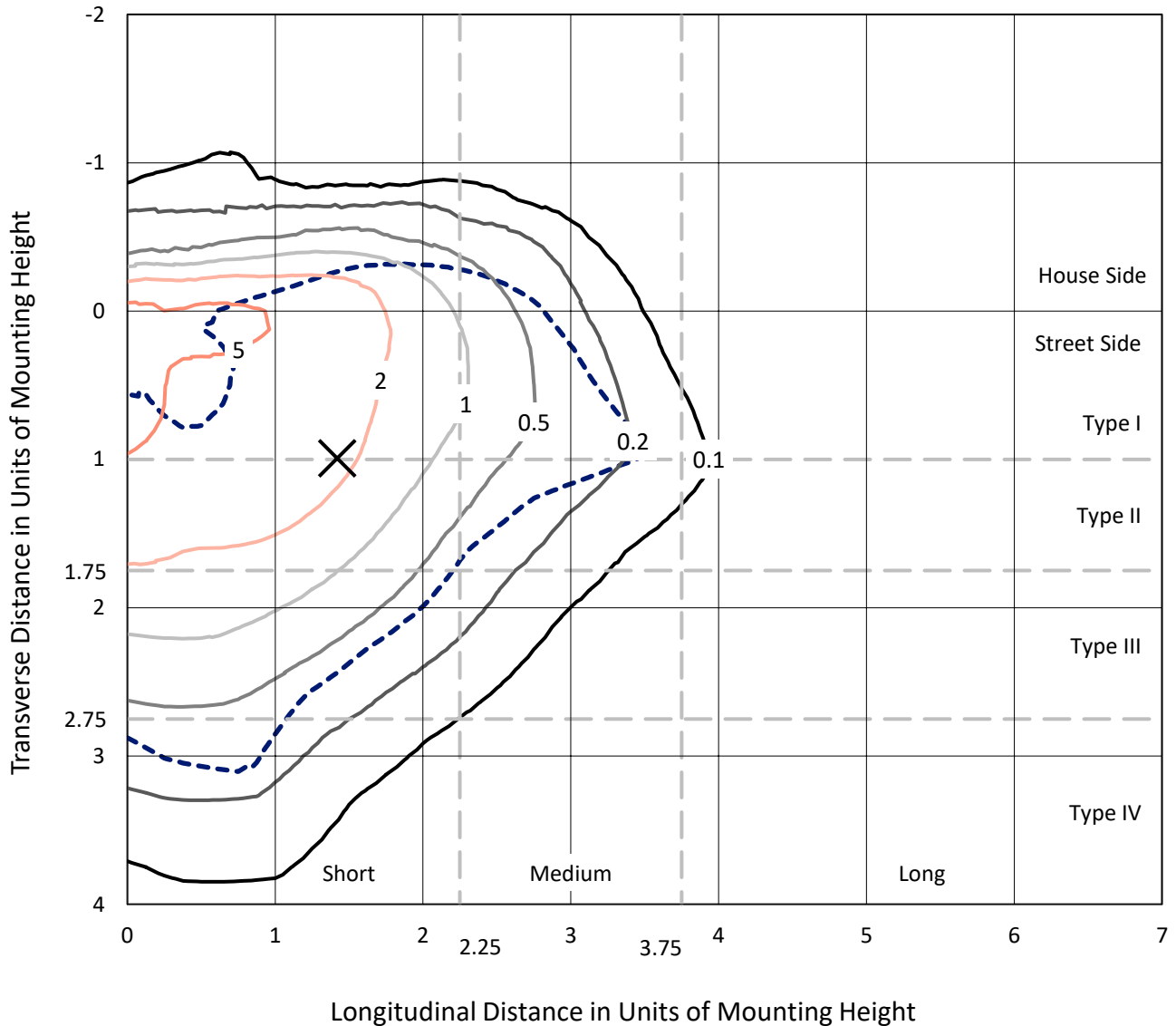
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

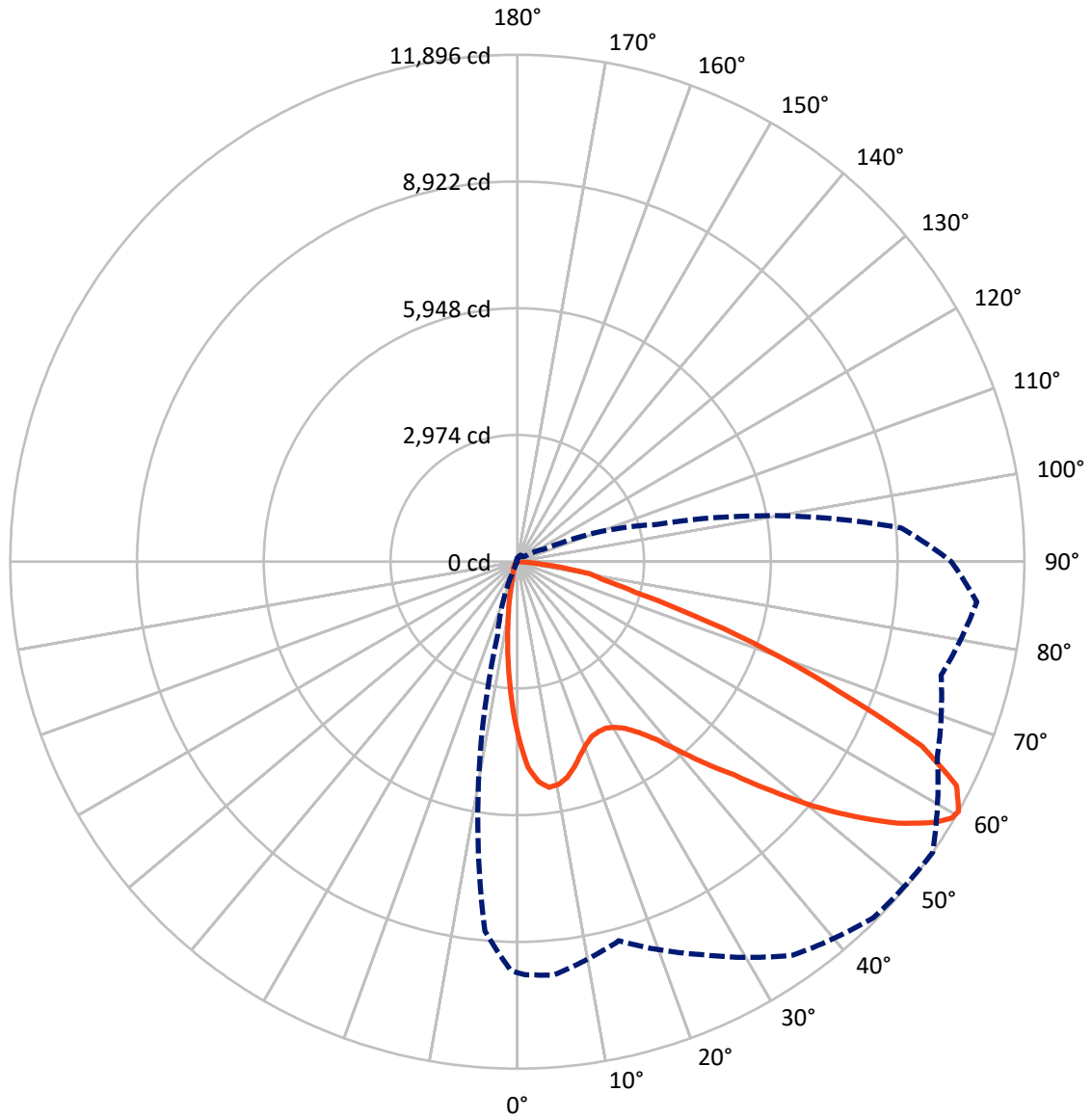
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1810.4	0.0	1810.4
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	10388.6	0.0	10388.6
	% Fixture	85.2	0.0	85.2
Total	Lumens	12199.0	0.0	12199.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.9	2.5
10°-20°	602.3	4.9
20°-30°	891.6	7.3
30°-40°	1329.0	10.9
40°-50°	1946.3	16.0
50°-60°	2809.8	23.0
60°-70°	2955.8	24.2
70°-80°	1215.9	10.0
80°-90°	142.4	1.2
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°	12199.0	100.0
0°-180°	12199.0	100.0

Coefficient of Utilization



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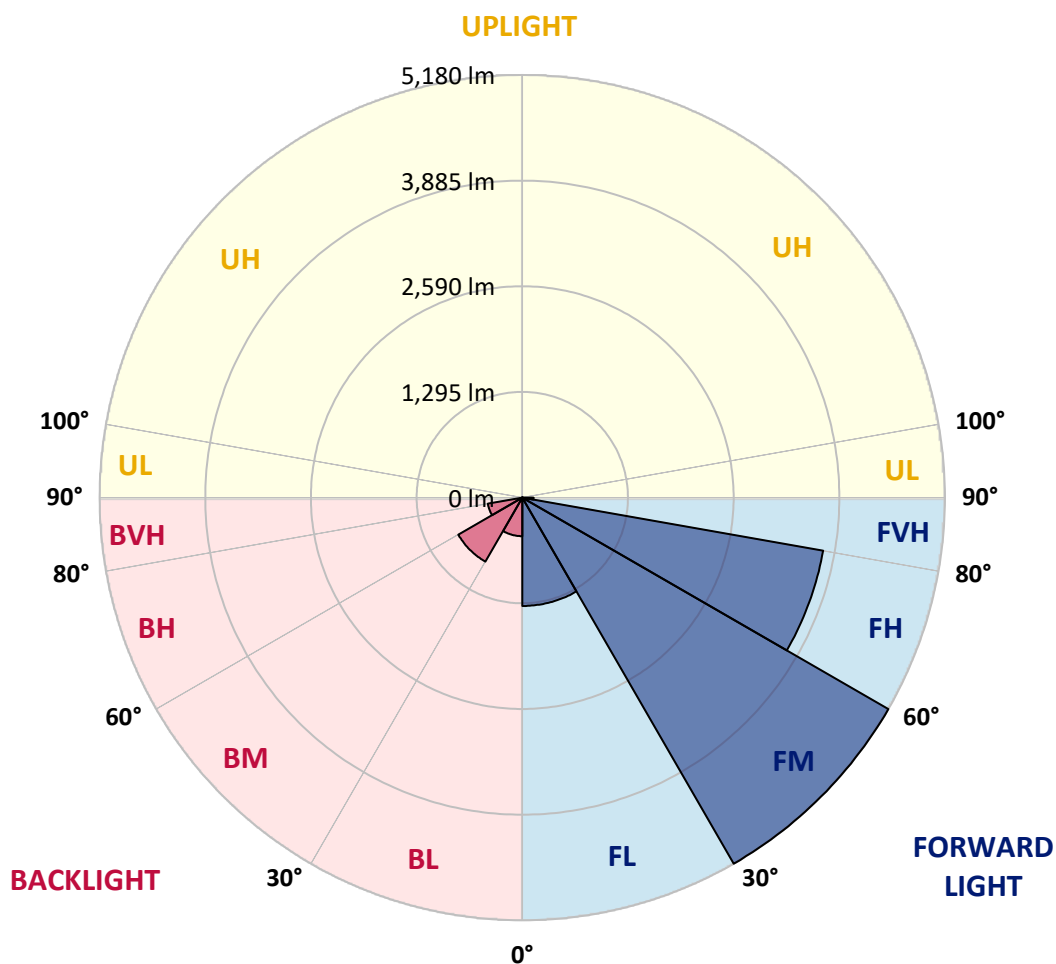
CATALOG NUMBER: GALN-SA3B-760-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1327.4	10.9			
FM	(30°-60°)	5179.7	42.5			
FH	(60°-80°)	3743.2	30.7			G2/5000
FVH	(80°-90°)	138.2	1.1			G2/225
BL	(0°-30°)	472.4	3.9	B1/500		
BM	(30°-60°)	905.4	7.4	B1/1000		
BH	(60°-80°)	428.5	3.5	B1/500		G1/500
BVH	(80°-90°)	4.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4130.5	4130.5	4130.5	4130.5	4130.5	4130.5	4130.5	4130.5	4130.5	4130.5	4130.5
2.5°	4512.7	4505.2	4571.9	4680.8	4790.6	4847.9	4836.7	4832.0	4740.9	4674.2	4534.3
5°	4503.3	4541.8	4661.1	4955.9	5179.4	5287.4	5319.3	5185.0	5007.5	4750.3	4432.9
7.5°	4233.8	4281.7	4476.1	4937.1	5334.3	5569.1	5560.6	5345.6	4979.4	4581.3	4128.7
10°	3899.6	3955.9	4184.1	4743.7	5259.2	5569.1	5586.0	5313.7	4858.3	4347.5	3871.4
12.5°	3663.9	3730.5	3983.1	4563.4	5065.8	5370.9	5390.7	5193.5	4767.2	4257.3	3731.5
15°	3584.1	3647.0	3903.3	4472.3	4860.1	5024.5	5019.8	4999.1	4731.5	4278.9	3739.0
17.5°	3721.2	3772.8	4062.0	4513.6	4667.6	4650.7	4675.2	4774.7	4739.0	4460.1	3975.6
20°	4075.1	4127.7	4438.5	4640.4	4520.2	4413.2	4424.4	4590.6	4808.5	4801.0	4345.6
22.5°	4562.5	4651.7	4933.4	4886.4	4500.5	4265.8	4242.3	4458.2	4926.8	5193.5	4845.1
25°	5179.4	5269.5	5489.2	5278.9	4597.2	4231.0	4209.4	4417.9	5070.5	5576.6	5407.6
27.5°	5697.7	5766.2	5985.0	5661.1	4739.9	4246.0	4210.4	4423.5	5186.9	5902.4	5881.7
30°	6112.7	6163.4	6292.1	5839.5	4862.9	4311.8	4270.5	4506.1	5238.5	6061.1	6265.8
32.5°	6447.0	6532.4	6572.8	6030.1	5039.5	4435.7	4365.3	4664.8	5364.4	6257.3	6668.6
35°	6829.2	6927.8	6876.1	6212.3	5272.3	4629.1	4542.8	4922.1	5555.0	6438.5	7136.2
37.5°	7313.7	7427.3	7225.4	6403.8	5518.4	4920.2	4879.8	5283.6	5844.2	6697.7	7637.6
40°	7815.1	7880.8	7564.4	6636.7	5820.7	5343.7	5382.2	5820.7	6222.6	7008.5	8171.0
42.5°	8206.6	8268.6	7912.7	6832.0	6129.6	5846.1	6006.6	6468.6	6656.4	7326.8	8569.1
45°	8506.2	8558.8	8154.1	7045.1	6546.5	6573.8	6877.0	7136.2	7091.1	7521.2	8876.1
47.5°	8739.0	8784.1	8340.0	7274.2	7170.9	7463.9	7927.8	8037.6	7541.8	7731.5	9154.1
50°	8834.8	8848.0	8398.2	7566.3	7879.9	8598.2	9081.8	9015.1	8058.3	7965.3	9449.8
52.5°	8959.7	8956.9	8564.4	7844.2	8546.5	9612.3	10094.9	9943.7	8642.3	8315.6	9782.2
55°	9287.4	9291.2	8920.3	8238.6	9114.6	10431.1	10947.5	10837.6	9258.3	8907.1	10170.0
57.5°	9685.5	9699.6	9426.4	8699.6	9657.3	11024.5	11584.1	11541.9	10091.2	9565.3	10536.2
59°	9737.2	9765.3	9665.8	9024.5	9979.4	11206.7	11802.0	11843.3	10537.2	9999.1	10734.4
60°	9643.3	9690.2	9735.3	9208.5	10168.2	11272.4	11815.1	11895.9	10872.4	10294.0	10824.5
62.5°	9233.9	9308.1	9534.3	9774.7	10403.8	11067.7	11395.4	11564.4	11287.4	11068.6	10832.9
65°	8697.7	8736.2	9063.0	9875.2	9946.6	10111.8	10213.2	10430.1	10788.8	11367.2	10445.1
67.5°	7818.8	7932.5	8332.5	9292.1	8597.2	8401.9	8376.6	8160.6	9092.1	10655.5	9489.3
70°	6459.2	6509.9	7002.9	7617.9	6488.3	6187.8	6308.0	6227.3	7047.9	9172.8	7637.6
72.5°	4884.5	4999.1	5480.8	6072.3	4415.1	4025.4	4356.8	4326.8	5293.9	7371.9	5247.0
75°	3475.1	3549.3	4163.4	4752.1	3092.0	2619.7	2739.0	2850.7	3695.8	5820.7	3100.5
77.5°	2387.8	2451.7	2912.7	3142.7	2255.4	2160.6	1976.5	2084.5	2421.6	3453.5	1687.3
80°	1440.4	1437.6	1740.9	1797.2	1570.9	1824.4	1530.5	1718.3	1463.9	1477.9	653.5
82.5°	935.2	925.8	1064.8	1160.6	874.2	919.3	616.9	889.2	954.0	412.2	206.6
85°	418.8	436.6	511.7	675.1	383.1	203.8	125.8	273.2	406.6	207.5	0.0
87.5°	43.2	33.8	90.1	164.3	52.6	5.6	18.8	9.4	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4130.5	4130.5	4130.5	4130.5	4130.5	4130.5	4130.5	4130.5	4130.5	4130.5	4130.5
2.5°	4469.5	4415.1	4252.6	4100.5	3970.0	3810.4	3707.1	3544.6	3446.0	3416.0	3420.7
5°	4290.2	4133.4	3824.4	3577.5	3302.4	3145.6	2907.1	2678.0	2554.0	2508.0	2487.3
7.5°	3914.6	3746.5	3373.7	2985.9	2691.1	2416.0	2238.5	2036.6	1898.6	1785.0	1765.3
10°	3635.7	3415.0	2953.1	2536.2	2303.3	2096.7	1919.3	1717.4	1554.9	1425.4	1389.7
12.5°	3468.6	3221.6	2706.1	2356.8	2136.2	1924.0	1693.0	1459.2	1293.0	1153.1	1088.3
15°	3438.5	3152.1	2636.6	2228.2	1955.9	1699.5	1392.5	1139.9	969.0	836.6	796.3
17.5°	3619.7	3277.0	2626.3	2093.9	1720.2	1356.8	1037.6	828.2	635.7	561.5	532.4
20°	3942.8	3497.7	2625.4	1938.0	1477.9	1045.1	728.6	539.9	462.0	426.3	409.4
22.5°	4383.1	3798.2	2675.1	1803.8	1226.3	770.9	520.2	430.1	385.0	355.9	349.3
25°	4921.2	4243.2	2797.2	1712.7	1033.8	604.7	429.1	368.1	330.5	317.4	311.7
27.5°	5399.1	4669.5	2931.5	1618.8	895.8	535.2	398.1	337.1	307.0	296.7	288.3
30°	5811.3	5056.4	2996.3	1494.8	785.0	490.1	403.8	360.6	321.1	290.1	276.1
32.5°	6155.0	5353.1	3038.5	1382.2	691.1	400.9	319.3	278.9	261.0	249.8	240.4
35°	6585.0	5674.2	3013.2	1318.3	643.2	365.3	291.1	240.4	210.3	187.8	178.4
37.5°	7035.7	5995.4	2969.0	1265.7	621.6	339.0	277.0	228.2	195.3	171.8	159.6
40°	7502.4	6293.0	2917.4	1216.9	601.9	322.1	268.5	217.8	185.0	159.6	146.5
42.5°	7929.6	6583.1	2896.7	1185.0	570.0	324.9	262.0	213.1	174.6	148.4	137.1
45°	8275.2	6858.3	2924.9	1168.1	535.2	320.2	263.9	207.5	166.2	140.8	129.6
47.5°	8644.2	7247.0	3016.0	1151.2	501.4	297.7	277.9	206.6	162.4	136.2	123.9
50°	9073.3	7744.7	3224.4	1109.9	460.1	273.2	295.8	205.6	157.7	130.5	118.3
52.5°	9645.1	8309.9	3439.5	1037.6	400.0	249.8	282.6	202.8	148.4	123.9	111.7
55°	10158.8	8905.2	3621.6	952.1	323.9	216.0	254.5	190.6	132.4	112.7	101.4
57.5°	10371.0	9241.4	3616.0	833.8	259.2	189.7	209.4	174.6	115.5	99.5	90.1
59°	10293.0	9199.1	3494.9	746.5	236.6	175.6	173.7	172.8	108.0	90.1	82.6
60°	10183.2	9045.1	3364.3	703.3	222.5	166.2	159.6	170.9	101.4	84.5	77.0
62.5°	9762.5	8406.6	2931.5	630.1	203.8	140.8	127.7	144.6	90.1	73.2	66.7
65°	9153.1	7425.4	2481.7	609.4	198.1	116.4	106.1	103.3	77.0	62.0	56.3
67.5°	7964.4	6283.6	2010.3	595.3	200.0	97.7	93.0	77.9	63.9	51.6	47.9
70°	6376.6	4899.6	1646.0	579.3	201.9	79.8	77.9	62.0	51.6	43.2	39.4
72.5°	3874.2	2904.2	1295.8	503.3	196.2	63.9	69.5	46.9	37.6	31.0	29.1
75°	2395.3	1987.8	803.8	391.6	129.6	46.9	48.8	29.1	25.4	19.7	19.7
77.5°	1387.8	1255.4	287.3	140.8	57.3	28.2	21.6	15.0	14.1	8.5	8.5
80°	575.6	461.0	99.5	47.9	31.0	13.1	4.7	0.9	0.0	0.0	0.0
82.5°	168.1	149.3	27.2	21.6	9.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4130.5	4130.5	4130.5	4130.5	4130.5	4130.5	4130.5	4130.5	4130.5	4130.5	4130.5
2.5°	3340.9	3309.9	3295.8	3343.7	3299.6	3355.9	3312.7	3331.5	3386.9	3411.3	3474.2
5°	2500.5	2468.6	2453.5	2525.8	2522.1	2557.8	2554.0	2586.9	2615.0	2552.1	2616.9
7.5°	1741.8	1720.2	1755.9	1812.2	1872.3	1852.6	1852.6	1808.5	1823.5	1814.1	1811.3
10°	1324.9	1250.7	1231.9	1230.1	1252.6	1257.3	1231.9	1170.9	1193.4	1200.0	1239.4
12.5°	1042.3	985.0	897.7	858.2	847.9	856.3	772.8	719.3	744.6	729.6	768.1
15°	747.4	700.5	648.8	604.7	592.5	575.6	484.5	420.7	413.1	416.0	422.5
17.5°	533.3	501.4	501.4	454.5	429.1	378.4	332.4	304.2	301.4	304.2	308.9
20°	393.4	376.5	374.7	362.4	334.3	300.5	268.5	262.9	261.0	265.7	267.6
22.5°	339.0	321.1	306.1	305.2	278.9	250.7	235.7	228.2	229.1	231.0	235.7
25°	303.3	284.5	268.5	259.2	240.4	220.7	206.6	202.8	202.8	205.6	206.6
27.5°	277.9	254.5	240.4	227.2	210.3	193.4	181.2	178.4	176.5	178.4	183.1
30°	260.1	236.6	218.8	199.1	185.9	170.0	159.6	155.9	154.9	155.9	159.6
32.5°	222.5	208.5	194.4	176.5	160.6	150.2	139.0	132.4	132.4	134.3	138.0
35°	168.1	160.6	159.6	154.9	141.8	130.5	117.4	110.8	110.8	114.6	116.4
37.5°	148.4	134.3	132.4	130.5	124.9	109.9	97.7	92.0	91.1	93.9	97.7
40°	135.2	119.2	110.8	108.9	109.9	93.0	79.8	74.2	74.2	75.1	78.9
42.5°	124.9	106.1	91.1	89.2	93.0	77.9	64.8	59.2	59.2	59.2	63.9
45°	116.4	94.8	77.0	67.6	73.2	63.9	52.6	46.9	45.1	46.9	48.8
47.5°	110.8	86.4	67.6	54.5	54.5	50.7	42.3	35.7	33.8	34.7	37.6
50°	106.1	78.9	57.3	44.1	39.4	40.4	31.9	27.2	25.4	25.4	28.2
52.5°	98.6	71.4	49.8	37.6	30.0	27.2	23.5	19.7	18.8	19.7	21.6
55°	89.2	64.8	43.2	31.0	23.5	18.8	16.9	14.1	13.1	14.1	16.9
57.5°	78.9	54.5	34.7	24.4	16.0	12.2	11.3	9.4	7.5	8.5	10.3
59°	72.3	48.8	30.0	19.7	12.2	8.5	8.5	6.6	4.7	5.6	8.5
60°	69.5	45.1	25.4	16.9	10.3	6.6	6.6	4.7	2.8	3.8	6.6
62.5°	59.2	37.6	19.7	10.3	4.7	0.9	2.8	0.9	0.0	0.9	2.8
65°	49.8	30.0	13.1	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.9
67.5°	41.3	22.5	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	32.9	15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	22.5	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	14.1	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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: P452406
 CATALOG NUMBER: GALN-SA3B-760-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4130.5	4130.5	4130.5	4130.5	4130.5	4130.5	4130.5	4130.5	4130.5	4130.5
2.5°	3478.0	3612.2	3694.9	3850.7	4010.4	4133.4	4287.4	4425.4	4482.7	4512.7
5°	2682.6	2869.5	3028.2	3265.8	3486.4	3755.0	4027.3	4348.4	4471.4	4503.3
7.5°	1882.6	2073.3	2239.5	2514.6	2829.1	3188.8	3596.3	4003.8	4183.1	4233.8
10°	1359.6	1563.4	1766.2	2041.3	2335.2	2724.9	3149.3	3653.5	3860.1	3899.6
12.5°	858.2	1077.0	1406.6	1746.5	2057.3	2370.9	2815.0	3363.4	3591.6	3663.9
15°	497.7	661.0	909.9	1353.1	1748.4	2163.4	2647.9	3254.5	3509.9	3584.1
17.5°	333.3	389.7	560.6	899.5	1421.6	1971.8	2605.7	3343.7	3626.3	3721.2
20°	280.8	306.1	366.2	548.4	1094.8	1801.0	2616.9	3585.9	3956.8	4075.1
22.5°	247.0	270.4	308.9	394.4	764.3	1588.7	2670.4	3932.4	4411.3	4562.5
25°	217.8	241.3	275.1	326.8	513.6	1343.7	2787.8	4439.5	5013.2	5179.4
27.5°	193.4	215.0	244.1	288.3	395.3	1070.4	2892.0	4933.4	5562.5	5697.7
30°	170.9	188.7	216.9	250.7	328.6	825.4	2944.6	5365.3	5962.5	6112.7
32.5°	148.4	165.3	192.5	219.7	270.4	629.1	2908.0	5682.7	6351.2	6447.0
35°	126.8	144.6	167.1	192.5	233.8	508.0	2724.9	6039.5	6754.0	6829.2
37.5°	108.9	123.9	147.4	167.1	211.3	406.6	2503.3	6360.6	7205.7	7313.7
40°	92.0	107.0	130.5	148.4	194.4	320.2	2303.3	6717.4	7681.7	7815.1
42.5°	75.1	93.0	113.6	142.7	167.1	244.1	2061.0	7006.6	8039.5	8206.6
45°	60.1	79.8	102.3	141.8	145.5	185.9	1827.2	7232.0	8355.9	8506.2
47.5°	47.9	67.6	98.6	132.4	119.2	147.4	1693.9	7467.7	8618.8	8739.0
50°	38.5	56.3	103.3	116.4	99.5	124.9	1690.2	7730.6	8755.0	8834.8
52.5°	31.0	46.0	87.3	89.2	84.5	109.9	1791.6	8026.4	8894.0	8959.7
55°	26.3	38.5	57.3	65.7	76.1	99.5	1867.6	8481.8	9225.4	9287.4
57.5°	20.7	32.9	44.1	52.6	67.6	91.1	1877.9	8832.9	9645.1	9685.5
59°	17.8	28.2	39.4	46.9	62.0	85.4	1835.7	8854.5	9672.4	9737.2
60°	15.0	25.4	34.7	44.1	57.3	80.8	1789.7	8697.7	9571.0	9643.3
62.5°	11.3	19.7	25.4	35.7	46.9	69.5	1571.8	8150.3	9183.2	9233.9
65°	7.5	14.1	18.8	26.3	36.6	60.1	1280.8	7440.4	8584.1	8697.7
67.5°	4.7	10.3	15.0	19.7	30.0	50.7	912.7	6380.3	7745.6	7818.8
70°	2.8	6.6	11.3	16.0	23.5	40.4	541.8	5043.2	6444.2	6459.2
72.5°	1.9	4.7	7.5	11.3	18.8	36.6	262.9	3287.3	4705.2	4884.5
75°	0.9	2.8	4.7	8.5	15.0	30.0	125.8	2196.3	3423.5	3475.1
77.5°	0.0	0.9	2.8	5.6	11.3	23.5	73.2	1442.3	2334.3	2387.8
80°	0.0	0.0	1.9	4.7	8.5	15.0	44.1	850.7	1414.1	1440.4
82.5°	0.0	0.0	0.9	3.8	5.6	11.3	22.5	373.7	925.8	935.2
85°	0.0	0.0	0.9	3.8	4.7	7.5	8.5	50.7	411.3	418.8
87.5°	0.0	0.0	0.9	4.7	4.7	4.7	4.7	2.8	34.7	43.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)