

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: P451710

Luminaire Tested: **GALN-SA2C-760-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451710  
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-SA2C-760-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5700K, 1050mA 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: 10153 lumens  
Efficiency: N/A  
Efficacy: 94.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

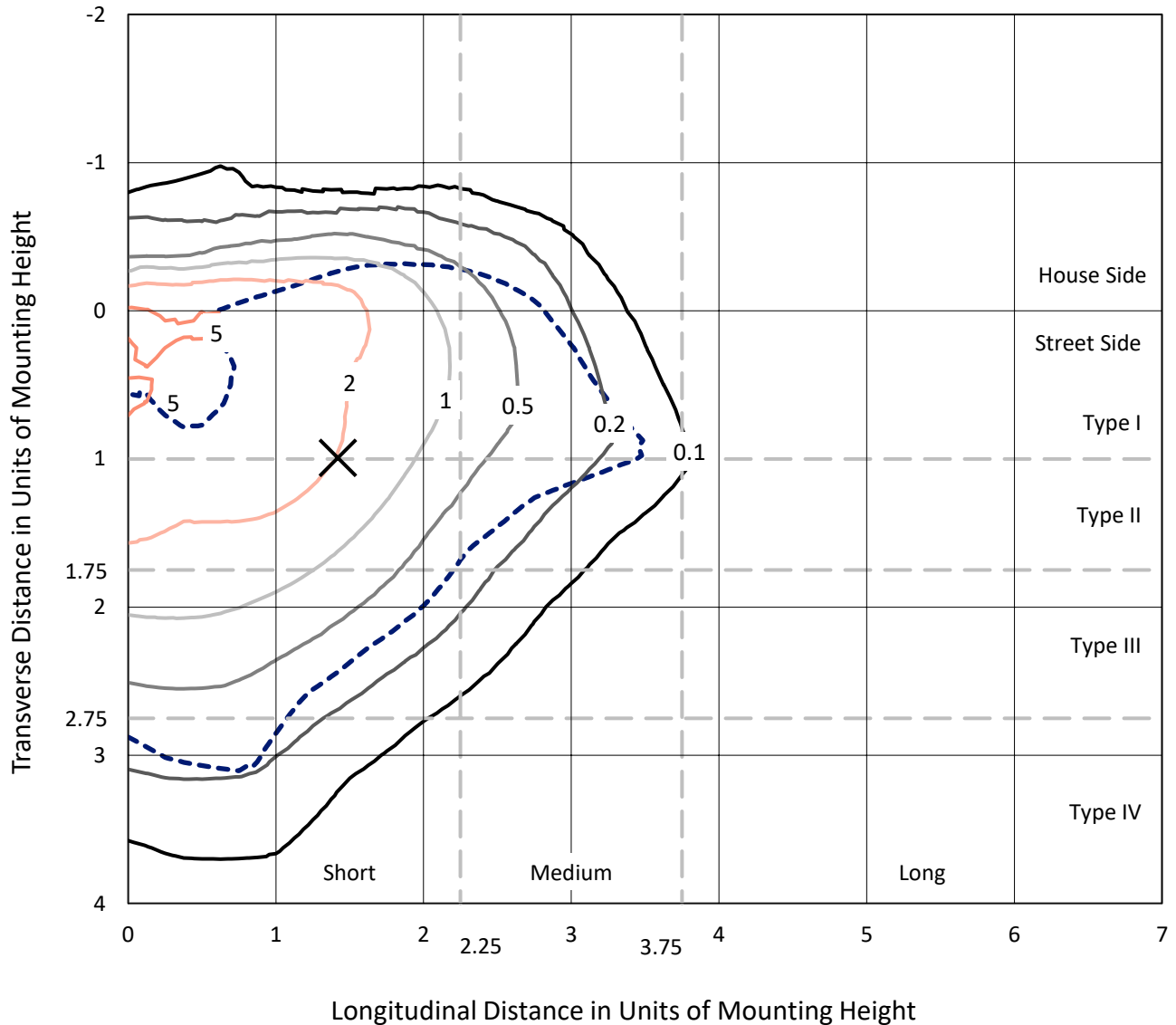
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

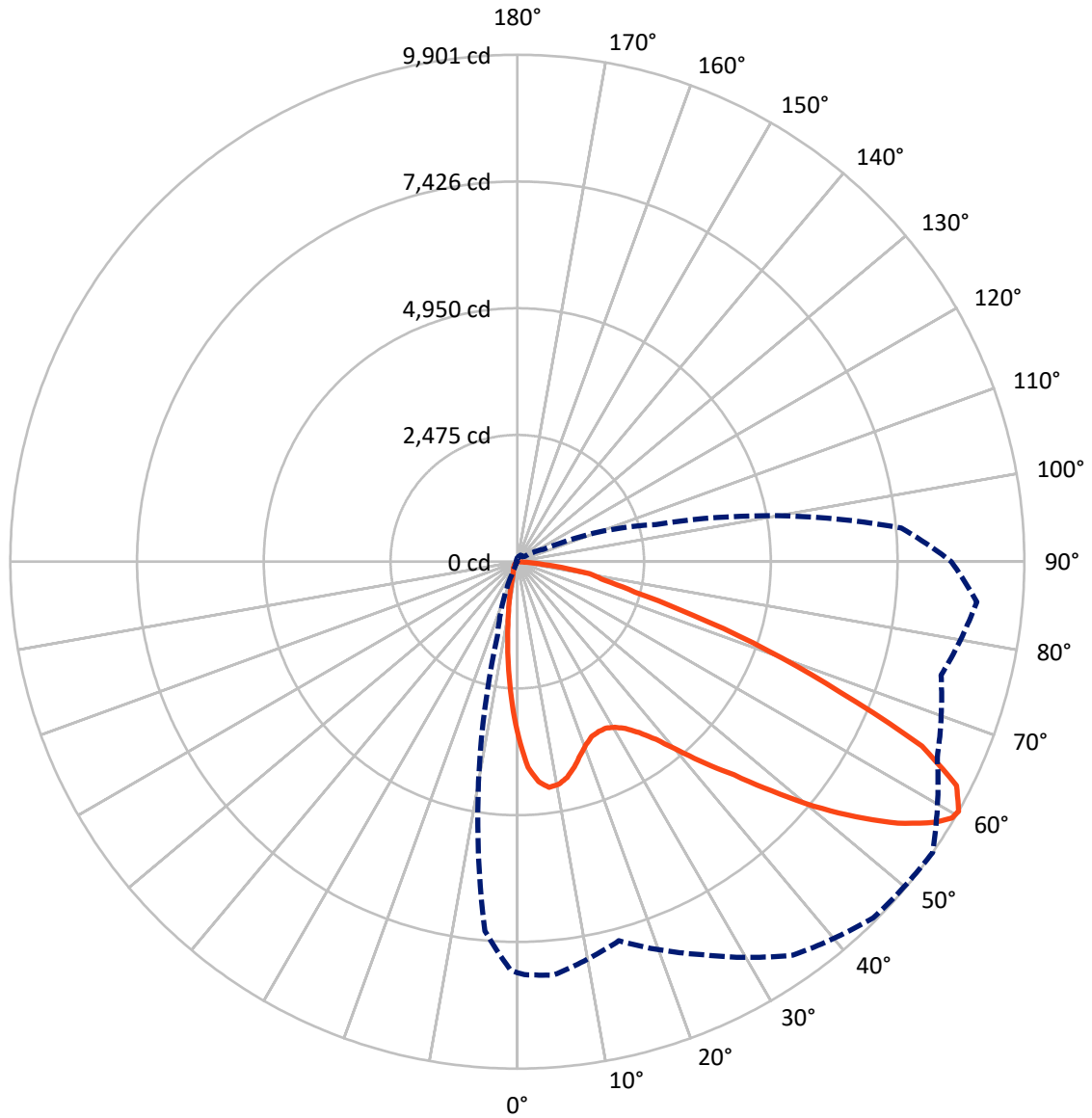
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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
<b>House Side</b>	Lumens	1506.8	0.0	1506.8
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	8646.2	0.0	8646.2
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	10153.0	0.0	10153.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	254.6	2.5
10°-20°	501.3	4.9
20°-30°	742.0	7.3
30°-40°	1106.1	10.9
40°-50°	1619.9	16.0
50°-60°	2338.6	23.0
60°-70°	2460.1	24.2
70°-80°	1012.0	10.0
80°-90°	118.5	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°	10153.0	100.0
0°-180°	10153.0	100.0



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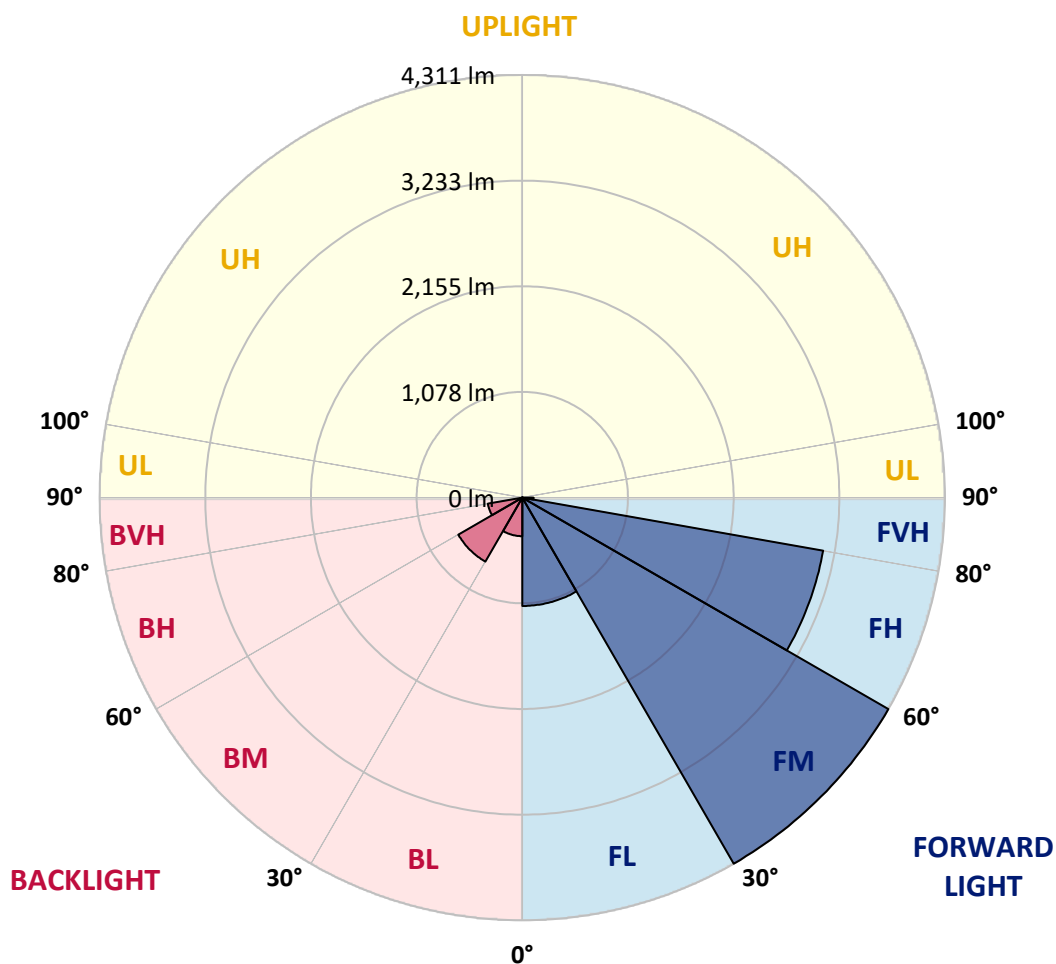
CATALOG NUMBER: GALN-SA2C-760-U-SLL-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1104.8	10.9			
FM (30°-60°)	4311.0	42.5			
FH (60°-80°)	3115.4	30.7			G2/5000
FVH (80°-90°)	115.0	1.1			G2/225
BL (0°-30°)	393.1	3.9	B1/500		
BM (30°-60°)	753.5	7.4	B1/1000		
BH (60°-80°)	356.6	3.5	B1/500		G1/500
BVH (80°-90°)	3.5	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°	3437.8	3437.8	3437.8	3437.8	3437.8	3437.8	3437.8	3437.8	3437.8	3437.8	3437.8
2.5°	3755.8	3749.6	3805.1	3895.7	3987.2	4034.8	4025.5	4021.6	3945.7	3890.3	3773.8
5°	3748.0	3780.1	3879.3	4124.7	4310.7	4400.6	4427.1	4315.4	4167.7	3953.6	3689.4
7.5°	3523.7	3563.6	3725.4	4109.1	4439.6	4635.0	4628.0	4449.0	4144.2	3812.9	3436.2
10°	3245.5	3292.4	3482.3	3948.1	4377.1	4635.0	4649.1	4422.5	4043.4	3618.3	3222.1
12.5°	3049.4	3104.9	3315.1	3798.0	4216.1	4470.1	4486.5	4322.4	3967.6	3543.3	3105.6
15°	2983.0	3035.3	3248.7	3722.2	4045.0	4181.8	4177.8	4160.7	3937.9	3561.3	3111.9
17.5°	3097.0	3140.0	3380.7	3756.6	3884.8	3870.7	3891.0	3973.9	3944.2	3712.1	3308.8
20°	3391.7	3435.4	3694.1	3862.1	3762.1	3673.0	3682.4	3820.7	4002.0	3995.8	3616.7
22.5°	3797.3	3871.5	4106.0	4066.9	3745.7	3550.3	3530.8	3710.5	4100.5	4322.4	4032.5
25°	4310.7	4385.7	4568.6	4393.5	3826.2	3521.4	3503.4	3676.9	4220.0	4641.3	4500.6
27.5°	4742.1	4799.1	4981.2	4711.6	3945.0	3533.9	3504.2	3681.6	4317.0	4912.5	4895.3
30°	5087.5	5129.7	5236.8	4860.1	4047.3	3588.6	3554.2	3750.4	4359.9	5044.5	5214.9
32.5°	5365.7	5436.8	5470.4	5018.7	4194.3	3691.8	3633.2	3882.4	4464.7	5207.9	5550.1
35°	5683.8	5765.8	5722.9	5170.3	4388.1	3852.7	3780.9	4096.6	4623.3	5358.7	5939.3
37.5°	6087.0	6181.6	6013.6	5329.8	4592.8	4095.0	4061.4	4397.4	4864.0	5574.4	6356.6
40°	6504.3	6559.1	6295.7	5523.6	4844.5	4447.5	4479.5	4844.5	5178.9	5833.0	6800.5
42.5°	6830.2	6881.8	6585.6	5686.1	5101.6	4865.6	4999.2	5383.7	5540.0	6098.0	7131.9
45°	7079.5	7123.3	6786.5	5863.5	5448.6	5471.2	5723.6	5939.3	5901.8	6259.7	7387.4
47.5°	7273.3	7310.8	6941.2	6054.2	5968.2	6212.1	6598.1	6689.6	6276.9	6434.8	7618.8
50°	7353.0	7364.0	6989.7	6297.3	6558.3	7156.1	7558.6	7503.1	6706.8	6629.4	7864.9
52.5°	7457.0	7454.6	7128.0	6528.6	7113.1	8000.1	8401.8	8276.0	7192.8	6920.9	8141.6
55°	7729.7	7732.9	7424.2	6856.8	7585.9	8681.6	9111.4	9020.0	7705.5	7413.2	8464.3
57.5°	8061.1	8072.8	7845.4	7240.5	8037.6	9175.5	9641.3	9606.1	8398.7	7961.0	8769.1
59°	8104.1	8127.5	8044.7	7510.9	8305.7	9327.1	9822.6	9856.9	8769.9	8322.1	8934.0
60°	8025.9	8065.0	8102.5	7664.1	8462.8	9381.8	9833.5	9900.7	9048.9	8567.5	9009.0
62.5°	7685.2	7746.9	7935.3	8135.3	8658.9	9211.4	9484.2	9624.8	9394.3	9212.2	9016.1
65°	7238.9	7271.0	7542.9	8218.9	8278.3	8415.9	8500.3	8680.8	8979.3	9460.7	8693.3
67.5°	6507.5	6602.0	6934.9	7733.6	7155.3	6992.8	6971.7	6791.9	7567.2	8868.4	7897.7
70°	5375.9	5418.1	5828.4	6340.2	5400.1	5150.0	5250.1	5182.8	5865.9	7634.4	6356.6
72.5°	4065.3	4160.7	4561.6	5053.9	3674.6	3350.3	3626.1	3601.1	4406.0	6135.5	4367.0
75°	2892.3	2954.0	3465.1	3955.1	2573.4	2180.4	2279.6	2372.6	3075.9	4844.5	2580.5
77.5°	1987.3	2040.5	2424.2	2615.6	1877.1	1798.2	1645.0	1734.9	2015.5	2874.3	1404.3
80°	1198.8	1196.5	1448.9	1495.8	1307.4	1518.4	1273.8	1430.1	1218.3	1230.1	543.9
82.5°	778.4	770.5	886.2	965.9	727.6	765.1	513.4	740.1	794.0	343.1	171.9
85°	348.5	363.4	425.9	561.9	318.8	169.6	104.7	227.4	338.4	172.7	0.0
87.5°	35.9	28.1	75.0	136.8	43.8	4.7	15.6	7.8	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°	3437.8	3437.8	3437.8	3437.8	3437.8	3437.8	3437.8	3437.8	3437.8	3437.8	3437.8
2.5°	3719.9	3674.6	3539.4	3412.8	3304.1	3171.3	3085.3	2950.1	2868.1	2843.1	2847.0
5°	3570.6	3440.1	3183.0	2977.5	2748.5	2618.0	2419.5	2228.8	2125.7	2087.4	2070.2
7.5°	3258.0	3118.1	2807.9	2485.1	2239.8	2010.8	1863.1	1695.1	1580.2	1485.6	1469.2
10°	3025.9	2842.3	2457.8	2110.8	1917.0	1745.1	1597.4	1429.3	1294.1	1186.3	1156.6
12.5°	2886.8	2681.3	2252.3	1961.5	1777.9	1601.3	1409.0	1214.4	1076.1	959.7	905.7
15°	2861.8	2623.5	2194.4	1854.5	1627.8	1414.5	1159.0	948.7	806.5	696.3	662.7
17.5°	3012.6	2727.4	2185.8	1742.7	1431.7	1129.3	863.5	689.3	529.1	467.3	443.1
20°	3281.5	2911.1	2185.0	1613.0	1230.1	869.8	606.4	449.4	384.5	354.8	340.7
22.5°	3648.0	3161.1	2226.5	1501.2	1020.6	641.6	432.9	357.9	320.4	296.2	290.7
25°	4095.8	3531.6	2328.1	1425.4	860.4	503.3	357.1	306.3	275.1	264.1	259.5
27.5°	4493.6	3886.4	2439.8	1347.3	745.5	445.4	331.4	280.6	255.5	247.0	239.9
30°	4836.6	4208.3	2493.7	1244.1	653.3	407.9	336.0	300.1	267.3	241.5	229.8
32.5°	5122.7	4455.3	2528.9	1150.4	575.2	333.7	265.7	232.1	217.3	207.9	200.1
35°	5480.6	4722.5	2507.8	1097.2	535.3	304.0	242.3	200.1	175.1	156.3	148.5
37.5°	5855.7	4989.8	2471.1	1053.4	517.3	282.1	230.5	189.9	162.6	143.0	132.9
40°	6244.1	5237.6	2428.1	1012.8	500.9	268.1	223.5	181.3	154.0	132.9	121.9
42.5°	6599.7	5479.0	2410.9	986.2	474.4	270.4	218.0	177.4	145.4	123.5	114.1
45°	6887.3	5708.0	2434.3	972.2	445.4	266.5	219.6	172.7	138.3	117.2	107.8
47.5°	7194.4	6031.5	2510.1	958.1	417.3	247.7	231.3	171.9	135.2	113.3	103.2
50°	7551.5	6445.7	2683.6	923.7	382.9	227.4	246.2	171.1	131.3	108.6	98.5
52.5°	8027.5	6916.2	2862.6	863.5	332.9	207.9	235.2	168.8	123.5	103.2	93.0
55°	8454.9	7411.7	3014.2	792.4	269.6	179.7	211.8	158.6	110.2	93.8	84.4
57.5°	8631.6	7691.4	3009.5	694.0	215.7	157.9	174.3	145.4	96.1	82.8	75.0
59°	8566.7	7656.3	2908.7	621.3	196.9	146.1	144.6	143.8	89.9	75.0	68.8
60°	8475.3	7528.1	2800.1	585.3	185.2	138.3	132.9	142.2	84.4	70.3	64.1
62.5°	8125.2	6996.7	2439.8	524.4	169.6	117.2	106.3	120.3	75.0	61.0	55.5
65°	7618.0	6180.0	2065.5	507.2	164.9	96.9	88.3	86.0	64.1	51.6	46.9
67.5°	6628.6	5229.7	1673.2	495.5	166.5	81.3	77.4	64.9	53.1	43.0	39.9
70°	5307.1	4077.8	1370.0	482.2	168.0	66.4	64.9	51.6	43.0	35.9	32.8
72.5°	3224.4	2417.2	1078.5	418.9	163.3	53.1	57.8	39.1	31.3	25.8	24.2
75°	1993.6	1654.4	669.0	325.9	107.8	39.1	40.6	24.2	21.1	16.4	16.4
77.5°	1155.0	1044.9	239.1	117.2	47.7	23.4	18.0	12.5	11.7	7.0	7.0
80°	479.1	383.7	82.8	39.9	25.8	10.9	3.9	0.8	0.0	0.0	0.0
82.5°	139.9	124.3	22.7	18.0	7.8	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°	3437.8	3437.8	3437.8	3437.8	3437.8	3437.8	3437.8	3437.8	3437.8	3437.8	3437.8
2.5°	2780.5	2754.8	2743.0	2782.9	2746.2	2793.0	2757.1	2772.7	2818.8	2839.2	2891.5
5°	2081.1	2054.5	2042.0	2102.2	2099.1	2128.8	2125.7	2153.0	2176.5	2124.1	2178.0
7.5°	1449.7	1431.7	1461.4	1508.3	1558.3	1541.9	1541.9	1505.2	1517.7	1509.8	1507.5
10°	1102.7	1040.9	1025.3	1023.8	1042.5	1046.4	1025.3	974.5	993.3	998.7	1031.6
12.5°	867.5	819.8	747.1	714.3	705.7	712.7	643.2	598.6	619.7	607.2	639.3
15°	622.1	583.0	540.0	503.3	493.1	479.1	403.2	350.1	343.9	346.2	351.7
17.5°	443.9	417.3	417.3	378.2	357.1	314.9	276.6	253.2	250.9	253.2	257.1
20°	327.4	313.4	311.8	301.7	278.2	250.1	223.5	218.8	217.3	221.2	222.7
22.5°	282.1	267.3	254.8	254.0	232.1	208.7	196.2	189.9	190.7	192.2	196.2
25°	252.4	236.8	223.5	215.7	200.1	183.7	171.9	168.8	168.8	171.1	171.9
27.5°	231.3	211.8	200.1	189.1	175.1	161.0	150.8	148.5	146.9	148.5	152.4
30°	216.5	196.9	182.1	165.7	154.7	141.4	132.9	129.7	128.9	129.7	132.9
32.5°	185.2	173.5	161.8	146.9	133.6	125.0	115.7	110.2	110.2	111.8	114.9
35°	139.9	133.6	132.9	128.9	118.0	108.6	97.7	92.2	92.2	95.3	96.9
37.5°	123.5	111.8	110.2	108.6	103.9	91.4	81.3	76.6	75.8	78.1	81.3
40°	112.5	99.2	92.2	90.7	91.4	77.4	66.4	61.7	61.7	62.5	65.6
42.5°	103.9	88.3	75.8	74.2	77.4	64.9	53.9	49.2	49.2	49.2	53.1
45°	96.9	78.9	64.1	56.3	61.0	53.1	43.8	39.1	37.5	39.1	40.6
47.5°	92.2	71.9	56.3	45.3	45.3	42.2	35.2	29.7	28.1	28.9	31.3
50°	88.3	65.6	47.7	36.7	32.8	33.6	26.6	22.7	21.1	21.1	23.4
52.5°	82.1	59.4	41.4	31.3	25.0	22.7	19.5	16.4	15.6	16.4	18.0
55°	74.2	53.9	35.9	25.8	19.5	15.6	14.1	11.7	10.9	11.7	14.1
57.5°	65.6	45.3	28.9	20.3	13.3	10.2	9.4	7.8	6.3	7.0	8.6
59°	60.2	40.6	25.0	16.4	10.2	7.0	7.0	5.5	3.9	4.7	7.0
60°	57.8	37.5	21.1	14.1	8.6	5.5	5.5	3.9	2.3	3.1	5.5
62.5°	49.2	31.3	16.4	8.6	3.9	0.8	2.3	0.8	0.0	0.8	2.3
65°	41.4	25.0	10.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.8
67.5°	34.4	18.8	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	27.4	12.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	18.8	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	11.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4.7	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: P451710

CATALOG NUMBER: GALN-SA2C-760-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3437.8	3437.8	3437.8	3437.8	3437.8	3437.8	3437.8	3437.8	3437.8	3437.8
2.5°	2894.6	3006.4	3075.2	3204.9	3337.7	3440.1	3568.3	3683.2	3730.8	3755.8
5°	2232.7	2388.2	2520.3	2718.0	2901.7	3125.2	3351.8	3619.1	3721.5	3748.0
7.5°	1566.9	1725.5	1863.9	2092.8	2354.6	2653.9	2993.1	3332.3	3481.5	3523.7
10°	1131.6	1301.2	1470.0	1699.0	1943.6	2267.9	2621.1	3040.8	3212.7	3245.5
12.5°	714.3	896.4	1170.7	1453.6	1712.2	1973.3	2342.9	2799.3	2989.2	3049.4
15°	414.2	550.2	757.3	1126.1	1455.1	1800.6	2203.8	2708.6	2921.2	2983.0
17.5°	277.4	324.3	466.5	748.7	1183.2	1641.1	2168.6	2782.9	3018.1	3097.0
20°	233.7	254.8	304.8	456.4	911.2	1498.9	2178.0	2984.5	3293.2	3391.7
22.5°	205.5	225.1	257.1	328.2	636.1	1322.3	2222.6	3272.9	3671.4	3797.3
25°	181.3	200.8	229.0	272.0	427.5	1118.3	2320.2	3694.9	4172.4	4310.7
27.5°	161.0	179.0	203.2	239.9	329.0	890.9	2407.0	4106.0	4629.6	4742.1
30°	142.2	157.1	180.5	208.7	273.5	686.9	2450.8	4465.4	4962.5	5087.5
32.5°	123.5	137.5	160.2	182.9	225.1	523.6	2420.3	4729.6	5286.0	5365.7
35°	105.5	120.3	139.1	160.2	194.6	422.8	2267.9	5026.5	5621.3	5683.8
37.5°	90.7	103.2	122.7	139.1	175.8	338.4	2083.5	5293.8	5997.2	6087.0
40°	76.6	89.1	108.6	123.5	161.8	266.5	1917.0	5590.8	6393.4	6504.3
42.5°	62.5	77.4	94.6	118.8	139.1	203.2	1715.4	5831.5	6691.1	6830.2
45°	50.0	66.4	85.2	118.0	121.1	154.7	1520.8	6019.0	6954.5	7079.5
47.5°	39.9	56.3	82.1	110.2	99.2	122.7	1409.8	6215.2	7173.3	7273.3
50°	32.0	46.9	86.0	96.9	82.8	103.9	1406.7	6434.0	7286.6	7353.0
52.5°	25.8	38.3	72.7	74.2	70.3	91.4	1491.1	6680.2	7402.3	7457.0
55°	21.9	32.0	47.7	54.7	63.3	82.8	1554.4	7059.2	7678.1	7729.7
57.5°	17.2	27.4	36.7	43.8	56.3	75.8	1563.0	7351.5	8027.5	8061.1
59°	14.8	23.4	32.8	39.1	51.6	71.1	1527.8	7369.5	8050.1	8104.1
60°	12.5	21.1	28.9	36.7	47.7	67.2	1489.5	7238.9	7965.7	8025.9
62.5°	9.4	16.4	21.1	29.7	39.1	57.8	1308.2	6783.3	7643.0	7685.2
65°	6.3	11.7	15.6	21.9	30.5	50.0	1066.0	6192.5	7144.4	7238.9
67.5°	3.9	8.6	12.5	16.4	25.0	42.2	759.6	5310.2	6446.5	6507.5
70°	2.3	5.5	9.4	13.3	19.5	33.6	450.9	4197.4	5363.4	5375.9
72.5°	1.6	3.9	6.3	9.4	15.6	30.5	218.8	2736.0	3916.1	4065.3
75°	0.8	2.3	3.9	7.0	12.5	25.0	104.7	1827.9	2849.3	2892.3
77.5°	0.0	0.8	2.3	4.7	9.4	19.5	61.0	1200.4	1942.8	1987.3
80°	0.0	0.0	1.6	3.9	7.0	12.5	36.7	708.0	1176.9	1198.8
82.5°	0.0	0.0	0.8	3.1	4.7	9.4	18.8	311.0	770.5	778.4
85°	0.0	0.0	0.8	3.1	3.9	6.3	7.0	42.2	342.3	348.5
87.5°	0.0	0.0	0.8	3.9	3.9	3.9	3.9	2.3	28.9	35.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)