

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: P452286

Luminaire Tested: **GALN-SA3B-727-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452286  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3B-727-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11751 lumens  
Efficiency: N/A  
Efficacy: 97.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

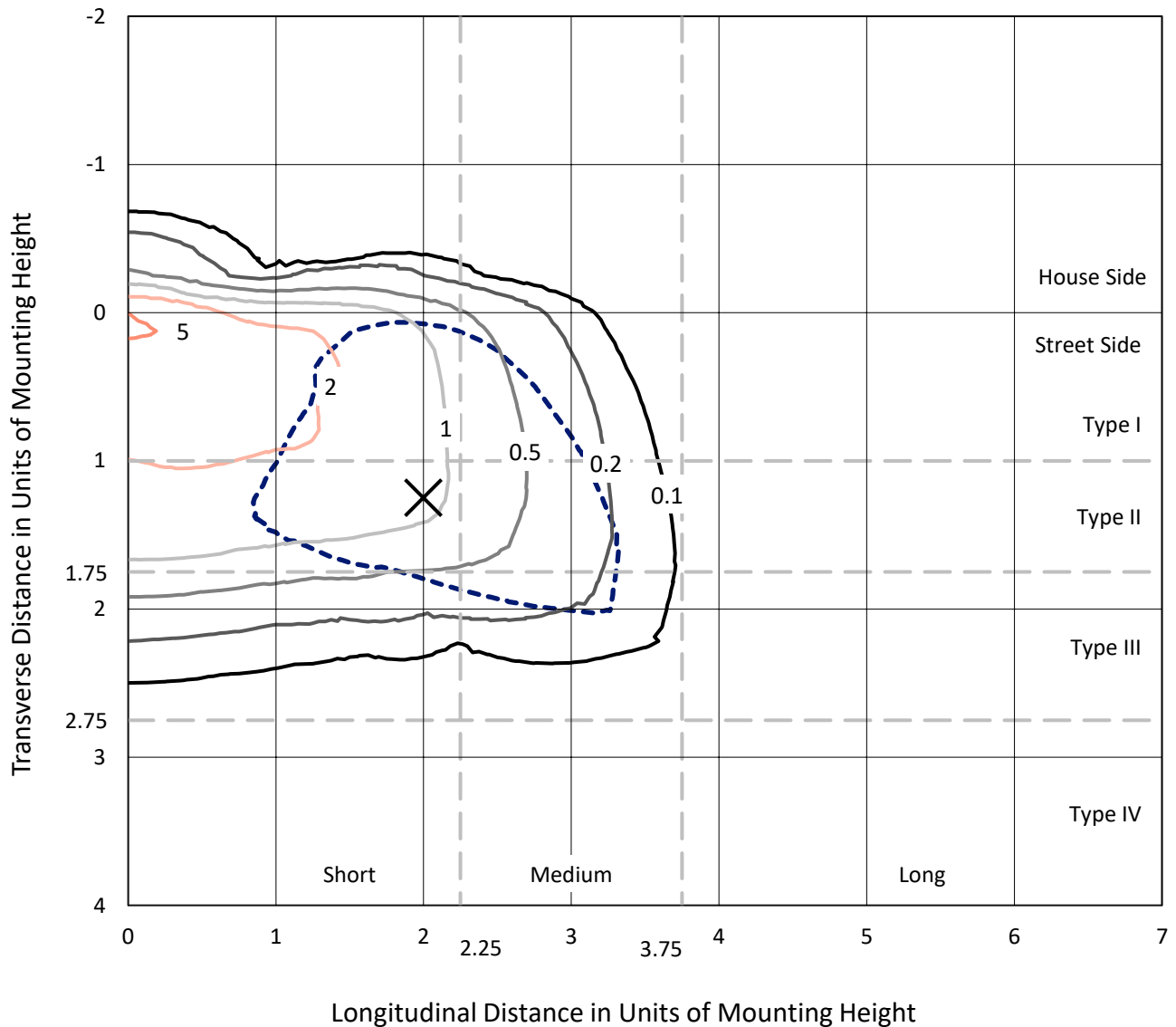
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P452286  
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### Iso-Footcandle Lines of Horizontal Illumination

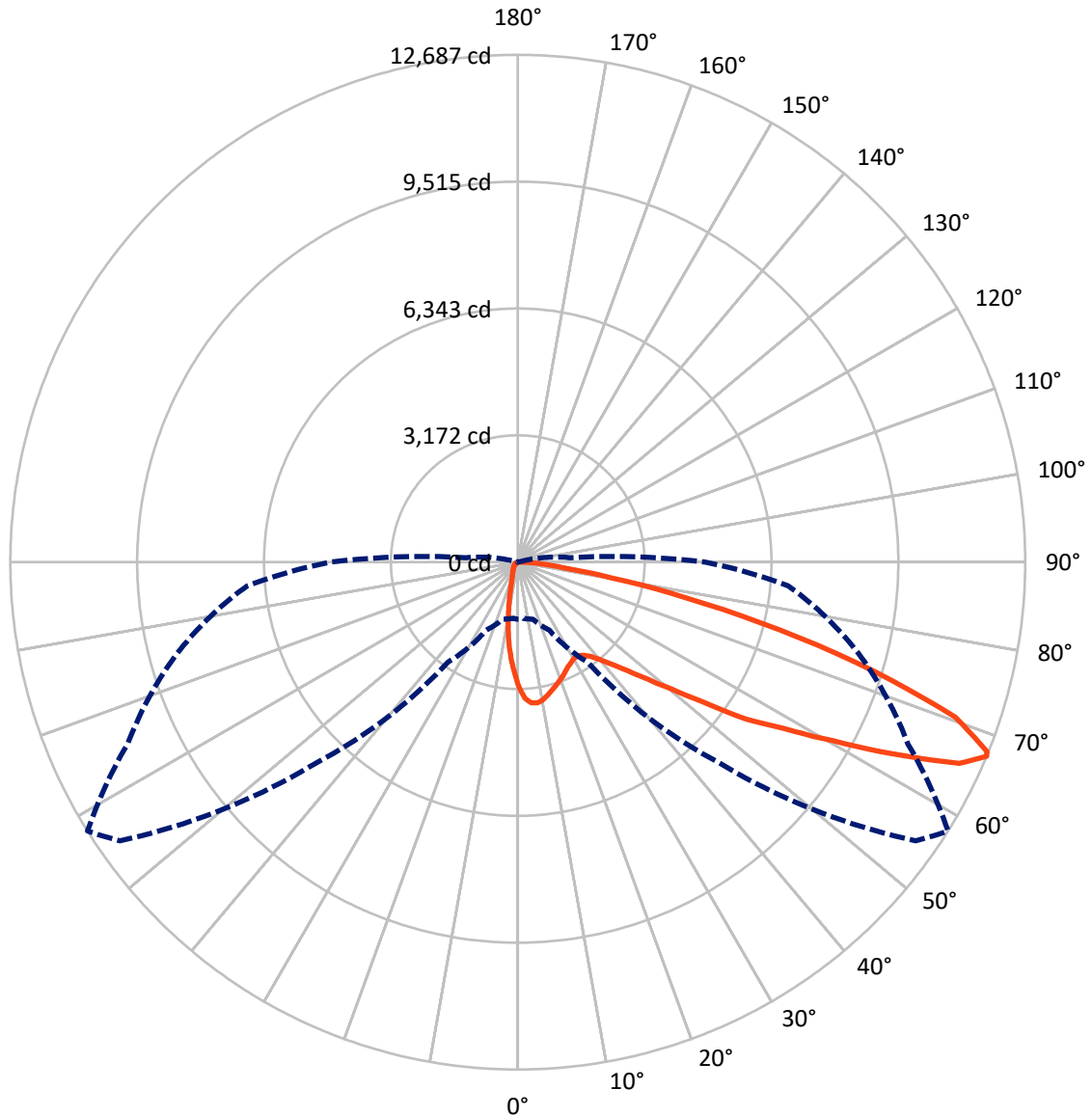
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type III - Short - N/A

REPORT NUMBER: P452286  
CATALOG NUMBER: GALN-SA3B-727-U-SL3-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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 CATALOG NUMBER: GALN-SA3B-727-U-SL3-HSS

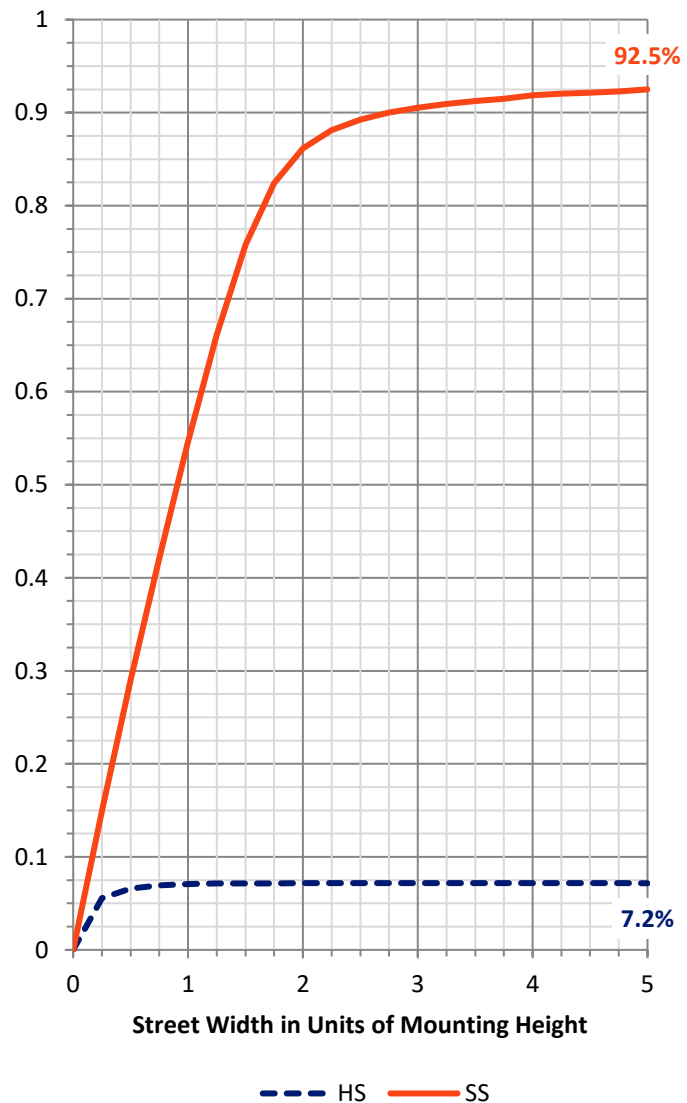
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	848.0	0.0	848.0
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	10903.0	0.0	10903.0
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	11751.0	0.0	11751.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	252.8	2.2
10°-20°	545.9	4.6
20°-30°	739.8	6.3
30°-40°	1026.1	8.7
40°-50°	1636.4	13.9
50°-60°	2828.7	24.1
60°-70°	3231.3	27.5
70°-80°	1347.1	11.5
80°-90°	142.8	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°	11751.0	100.0
0°-180°	11751.0	100.0



REPORT NUMBER: P452286

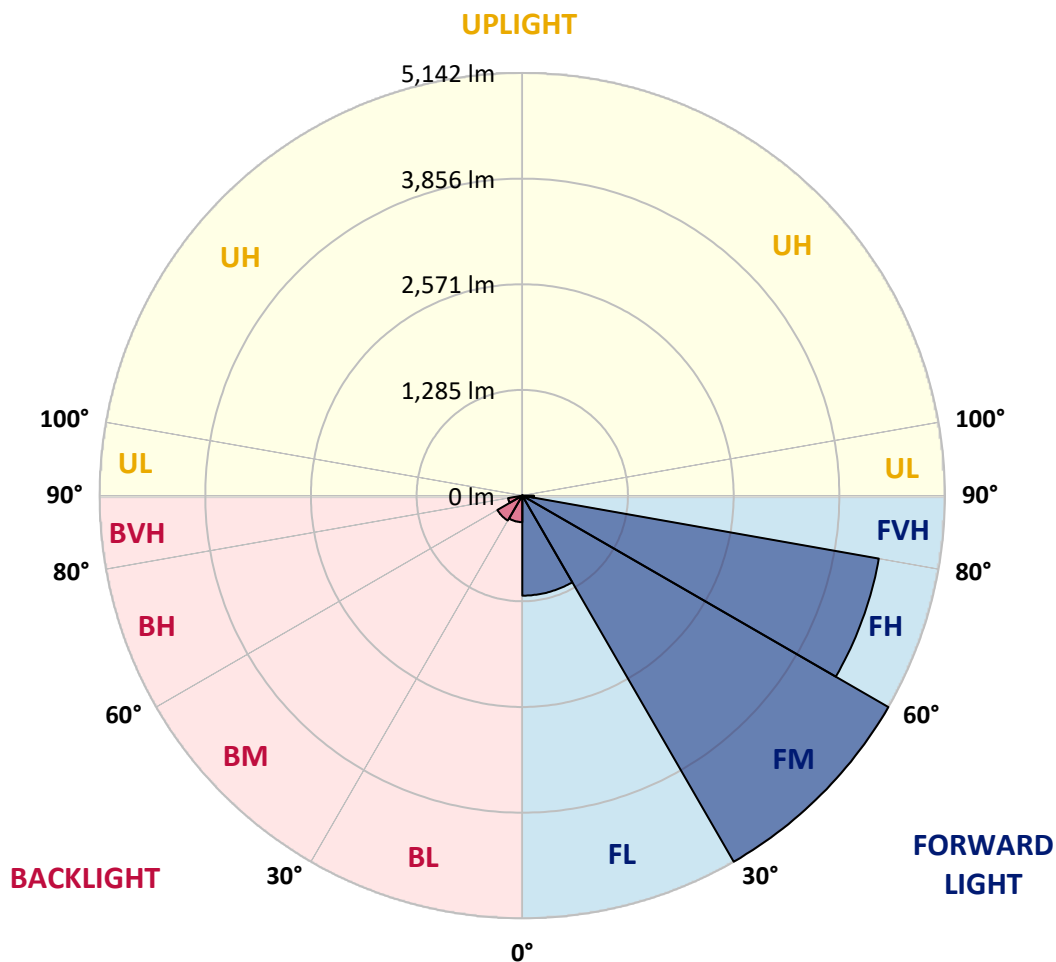
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1216.5	10.4			
FM	(30°-60°)	5141.6	43.8			
FH	(60°-80°)	4403.1	37.5			G2/5000
FVH	(80°-90°)	141.8	1.2			G2/225
BL	(0°-30°)	322.0	2.7	B1/500		
BM	(30°-60°)	349.7	3.0	B1/1000		
BH	(60°-80°)	175.3	1.5	B1/500		G1/500
BVH	(80°-90°)	1.0	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°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3115.1	3115.1	3115.1	3115.1	3115.1	3115.1	3115.1	3115.1	3115.1	3115.1	3115.1
2.5°	3615.3	3620.8	3600.4	3583.9	3541.5	3495.9	3435.5	3403.3	3348.3	3253.3	3148.1
5°	3700.1	3707.2	3704.0	3700.1	3683.6	3639.6	3562.7	3534.4	3453.5	3298.8	3108.8
7.5°	3511.6	3537.5	3540.7	3571.3	3600.4	3604.3	3575.2	3554.0	3479.4	3298.0	3038.9
10°	3261.9	3279.2	3304.3	3339.7	3409.6	3467.7	3495.9	3492.8	3449.6	3273.7	2957.2
12.5°	3009.9	3019.3	3057.8	3118.2	3203.8	3302.8	3378.1	3393.1	3393.8	3244.6	2888.9
15°	2793.1	2789.2	2819.0	2888.9	3009.1	3133.1	3268.2	3291.8	3329.5	3216.4	2825.3
17.5°	2607.8	2628.2	2632.9	2709.9	2820.6	2981.6	3153.6	3195.2	3270.6	3192.0	2772.7
20°	2493.2	2504.2	2514.4	2557.6	2657.3	2826.9	3046.0	3103.3	3215.6	3170.0	2713.8
22.5°	2459.4	2466.5	2457.8	2471.2	2541.9	2692.6	2929.0	3005.1	3163.0	3149.6	2665.9
25°	2485.3	2492.4	2472.0	2456.3	2480.6	2583.5	2815.9	2908.6	3120.6	3145.7	2629.8
27.5°	2548.1	2561.5	2533.2	2504.9	2490.8	2524.6	2727.2	2834.7	3091.5	3164.6	2613.3
30°	2646.3	2654.1	2632.9	2598.4	2566.2	2532.4	2680.8	2783.7	3083.7	3208.5	2611.7
32.5°	2753.1	2769.6	2757.8	2735.0	2693.4	2613.3	2694.2	2785.3	3102.5	3272.1	2631.4
35°	2885.0	2903.9	2914.8	2910.1	2856.7	2757.0	2779.0	2856.0	3152.8	3389.1	2684.8
37.5°	3014.6	3031.1	3093.1	3114.3	3067.2	2973.0	2943.9	2994.9	3263.5	3542.3	2781.4
40°	3163.0	3185.0	3272.1	3353.0	3330.2	3231.3	3177.9	3220.3	3433.1	3773.1	2964.3
42.5°	3305.1	3344.4	3477.1	3620.0	3641.2	3530.5	3495.1	3509.3	3684.4	4105.3	3219.5
45°	3506.9	3543.8	3715.0	3909.0	4008.7	3922.3	3886.2	3883.8	4029.1	4572.5	3633.3
47.5°	3798.2	3831.2	4033.0	4224.6	4402.1	4413.9	4345.6	4369.1	4462.6	5119.0	4140.6
50°	4155.5	4233.3	4366.0	4565.4	4802.6	4994.2	5015.4	4984.0	5064.1	5751.9	4750.0
52.5°	4674.6	4704.4	4826.1	4990.3	5268.2	5593.3	5845.4	5802.2	5777.1	6355.0	5365.6
55°	5061.7	5101.8	5291.0	5516.4	5923.9	6352.7	6899.2	6914.1	6596.9	6934.5	5967.9
57.5°	4944.7	5006.0	5292.6	5745.7	6641.6	7425.3	7832.1	7842.3	7355.4	7497.6	6647.9
60°	4344.0	4373.1	4783.7	5388.4	6702.9	8587.5	9155.2	9072.8	8127.3	8127.3	7248.6
62.5°	3080.5	3126.1	3459.0	4348.7	6053.5	8991.1	10739.8	10569.4	9190.6	8729.6	7606.7
65°	1968.6	1924.6	2145.3	2745.2	4509.7	8395.1	12119.5	12129.7	10191.0	8970.7	7411.2
67°	1426.0	1408.7	1472.3	1876.7	3057.8	7057.0	12148.6	12686.5	10765.8	8818.3	6786.1
67.5°	1304.3	1317.6	1364.0	1693.0	2778.2	6421.8	12016.7	12653.5	10895.3	8726.5	6560.0
70°	988.6	965.9	1016.1	1197.5	1665.5	4051.1	10337.0	11605.2	10734.4	7814.8	5241.5
72.5°	727.1	724.8	794.7	979.2	1282.3	2157.9	7759.8	9305.2	8769.7	5950.6	3300.4
75°	490.8	512.8	624.3	818.2	1162.2	1399.3	5290.2	6750.8	6088.0	3378.9	1349.1
77.5°	279.5	281.1	402.0	657.3	1043.6	1126.0	3134.7	4300.8	3222.7	1123.7	400.5
80°	120.9	132.7	199.5	477.4	865.3	997.3	1797.4	2363.6	1303.5	237.9	129.6
82.5°	44.8	52.6	87.9	293.7	631.3	821.4	1086.0	1128.4	442.1	84.0	80.9
85°	0.0	1.6	32.2	137.4	329.0	366.7	725.6	669.0	195.5	40.0	52.6
87.5°	0.0	0.0	0.0	14.1	43.2	136.6	225.4	251.3	47.1	14.1	12.6
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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CATALOG NUMBER: GALN-SA3B-727-U-SL3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3115.1	3115.1	3115.1	3115.1	3115.1	3115.1	3115.1	3115.1	3115.1	3115.1	3115.1
2.5°	3091.5	3040.5	2912.5	2784.5	2689.5	2610.2	2490.8	2425.6	2391.1	2340.0	2343.2
5°	3013.8	2910.1	2684.8	2451.5	2263.1	2079.3	1859.5	1770.7	1696.1	1653.7	1625.5
7.5°	2898.4	2745.2	2411.5	2100.5	1810.8	1489.6	1248.5	1087.6	979.2	939.2	900.7
10°	2771.9	2568.5	2134.3	1703.2	1301.2	969.8	765.6	618.0	565.4	516.7	521.4
12.5°	2654.9	2407.6	1879.9	1344.3	911.7	616.4	480.6	420.1	402.8	397.3	397.3
15°	2559.1	2253.7	1606.6	1010.6	625.1	442.9	384.8	368.3	362.0	360.4	360.4
17.5°	2457.0	2107.6	1360.1	746.8	454.7	370.6	351.0	340.0	337.7	336.1	336.1
20°	2366.0	1960.8	1126.0	556.0	367.5	333.7	321.2	314.1	311.7	310.2	311.0
22.5°	2279.6	1830.4	906.2	420.1	323.5	303.9	291.3	284.3	279.5	275.6	276.4
25°	2202.6	1704.8	728.7	343.9	291.3	274.1	261.5	251.3	241.1	236.4	235.6
27.5°	2148.4	1594.8	567.7	294.5	262.3	243.4	227.7	215.2	201.8	194.7	193.2
30°	2103.7	1483.3	449.2	259.9	233.2	215.2	195.5	177.5	163.3	156.3	153.1
32.5°	2074.6	1377.3	354.1	231.6	208.9	186.9	164.9	146.8	131.1	124.1	122.5
35°	2069.9	1288.6	289.8	208.1	186.9	163.3	140.6	120.9	107.6	100.5	98.9
37.5°	2103.7	1220.3	242.6	189.2	168.8	142.9	117.8	99.7	87.9	82.5	81.7
40°	2194.0	1177.1	210.4	173.5	152.3	124.1	100.5	84.8	73.0	67.5	67.5
42.5°	2366.0	1178.7	189.2	158.6	135.8	106.0	85.6	70.7	60.5	55.8	54.2
45°	2634.5	1232.1	171.2	143.7	120.1	91.9	73.0	58.1	47.9	44.0	44.0
47.5°	2994.2	1338.1	155.5	128.8	106.0	78.5	62.0	47.1	38.5	34.6	34.6
50°	3464.5	1508.5	142.1	116.2	94.2	67.5	50.3	38.5	29.8	26.7	25.9
52.5°	3956.1	1718.9	126.4	105.2	80.9	57.3	40.8	29.8	22.8	20.4	19.6
55°	4498.7	1924.6	111.5	94.2	66.0	47.9	32.2	23.6	16.5	14.1	14.1
57.5°	5046.0	2126.5	93.4	78.5	51.8	35.3	25.1	17.3	11.0	8.6	8.6
60°	5509.3	2191.6	79.3	63.6	39.3	25.1	18.1	11.0	6.3	3.9	3.9
62.5°	5572.9	1971.8	66.7	48.7	28.3	17.3	9.4	6.3	2.4	1.6	1.6
65°	5227.4	1601.9	55.8	36.9	18.8	8.6	3.9	2.4	0.8	0.0	0.0
67°	4684.0	1298.8	45.5	27.5	13.3	5.5	2.4	0.8	0.0	0.0	0.0
67.5°	4545.0	1238.3	44.0	25.9	11.8	4.7	1.6	0.8	0.0	0.0	0.0
70°	3566.6	927.4	31.4	15.7	7.1	3.1	0.0	0.0	0.0	0.0	0.0
72.5°	2216.8	524.5	22.8	9.4	4.7	1.6	0.0	0.0	0.0	0.0	0.0
75°	837.9	183.7	15.7	6.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	260.7	69.9	9.4	4.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	87.9	26.7	6.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	54.2	11.0	3.9	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	33.8	4.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.3	1.6	0.8	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

(END OF REPORT)