

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: P457858

Luminaire Tested: **GALN-SA9B-727-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457858  
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-SA9B-727-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 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: 30982 lumens  
Efficiency: N/A  
Efficacy: 85.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 364  
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

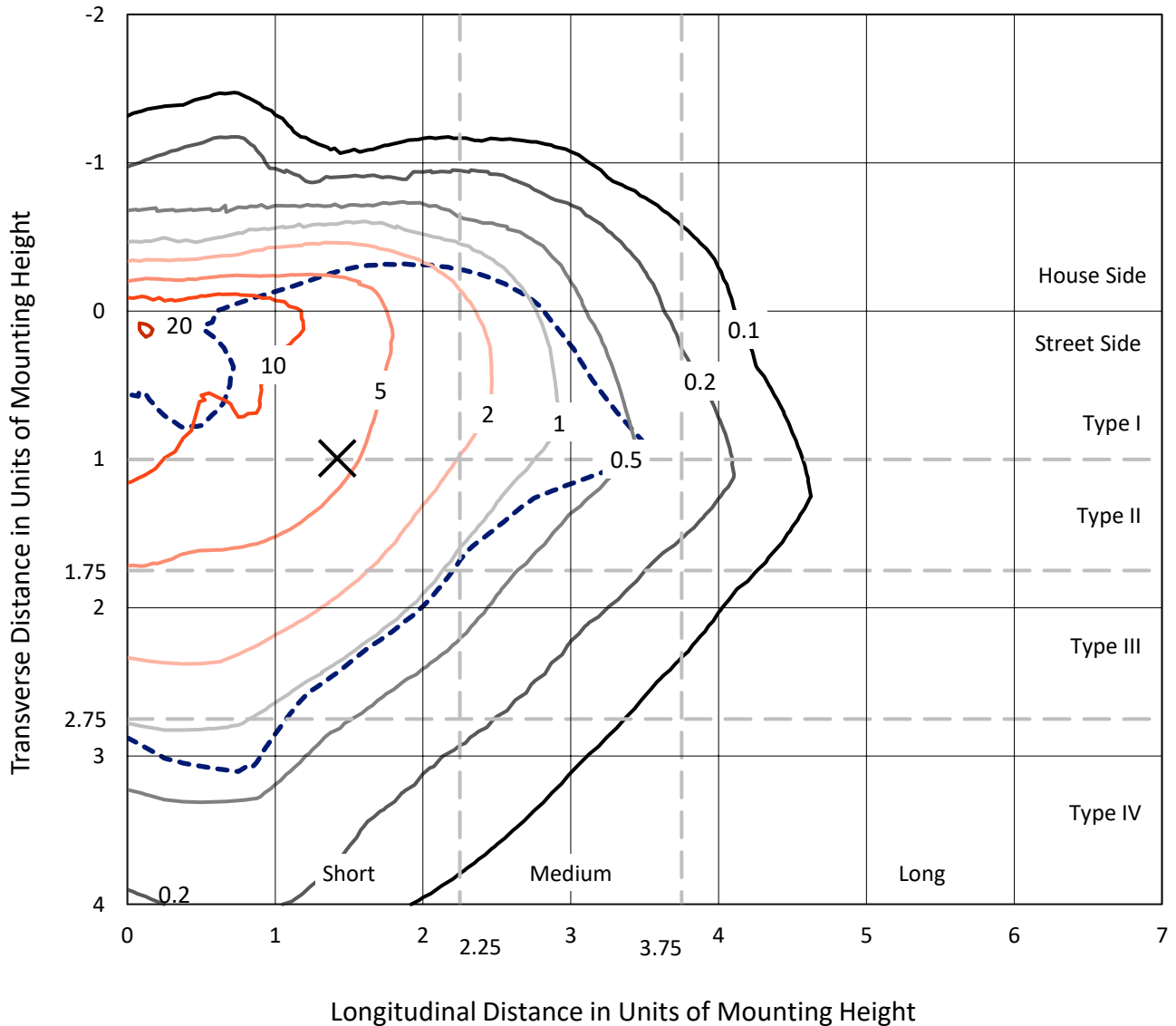




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### Iso-Footcandle Lines of Horizontal Illumination

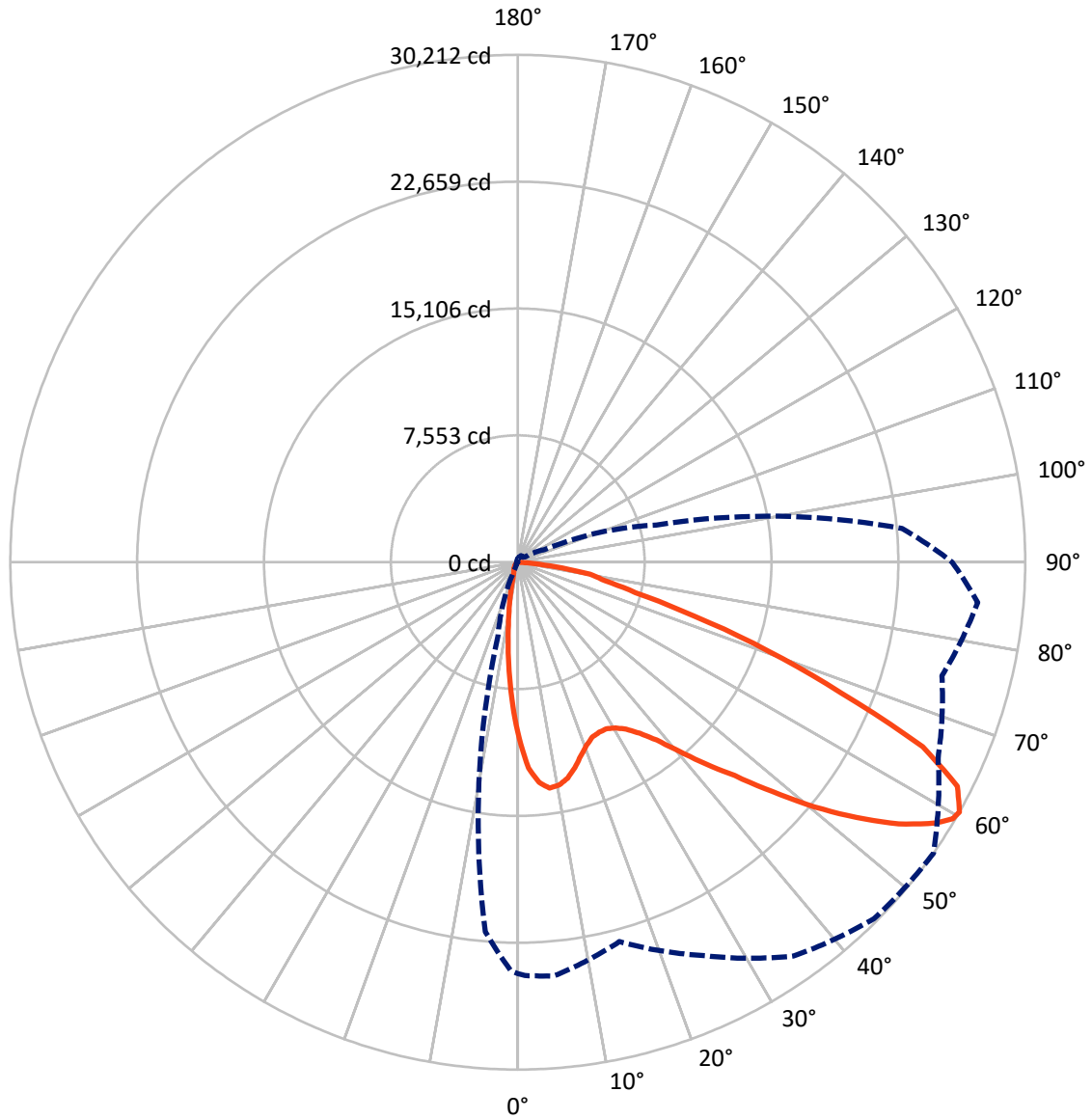
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.7 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	4598.0	0.0	4598.0
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	26384.0	0.0	26384.0
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	30982.0	0.0	30982.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	776.8	2.5
10°-20°	1529.8	4.9
20°-30°	2264.3	7.3
30°-40°	3375.2	10.9
40°-50°	4943.0	16.0
50°-60°	7136.2	23.0
60°-70°	7506.9	24.2
70°-80°	3088.1	10.0
80°-90°	361.7	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°	30982.0	100.0
0°-180°	30982.0	100.0

**Coefficient of Utilization**



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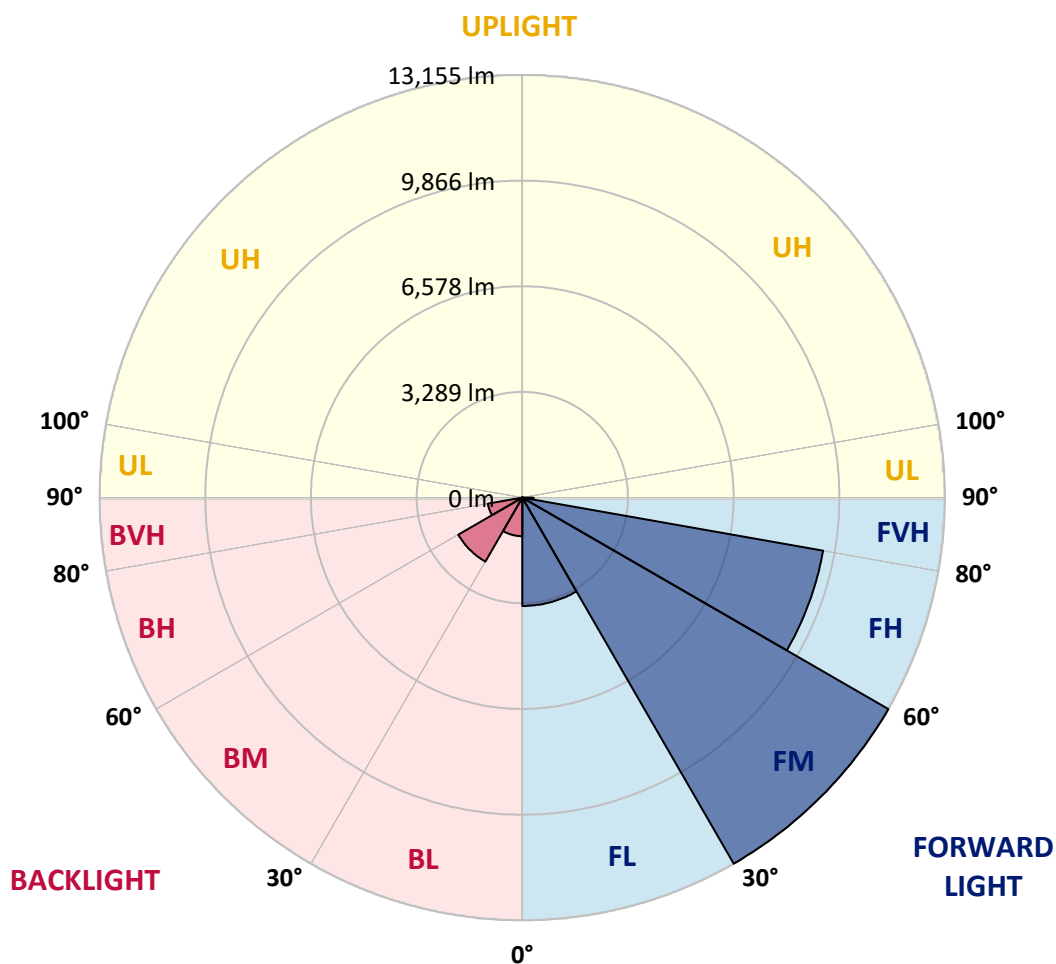
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3371.3	10.9			
FM (30°-60°)	13155.0	42.5			
FH (60°-80°)	9506.7	30.7			G4/12000
FVH (80°-90°)	351.0	1.1			G3/500
BL (0°-30°)	1199.6	3.9	B3/2500		
BM (30°-60°)	2299.4	7.4	B2/2500		
BH (60°-80°)	1088.3	3.5	B3/2500		G3/2500
BVH (80°-90°)	10.6	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10490.4	10490.4	10490.4	10490.4	10490.4	10490.4	10490.4	10490.4	10490.4	10490.4	10490.4
2.5°	11461.0	11441.9	11611.2	11887.9	12166.9	12312.4	12283.7	12271.8	12040.5	11871.2	11515.9
5°	11437.2	11534.9	11837.8	12586.6	13154.2	13428.4	13509.5	13168.5	12717.8	12064.3	11258.3
7.5°	10752.7	10874.4	11368.0	12538.9	13547.6	14143.8	14122.4	13576.3	12646.2	11635.1	10485.7
10°	9903.8	10046.9	10626.3	12047.6	13356.9	14143.8	14186.7	13495.2	12338.6	11041.3	9832.2
12.5°	9305.2	9474.5	10116.0	11589.8	12865.6	13640.6	13690.7	13189.9	12107.3	10812.4	9476.9
15°	9102.5	9262.3	9913.3	11358.5	12343.4	12760.7	12748.8	12696.3	12016.6	10867.2	9496.0
17.5°	9450.7	9581.8	10316.3	11463.4	11854.5	11811.6	11873.6	12126.3	12035.7	11327.5	10096.9
20°	10349.7	10483.3	11272.6	11785.3	11480.1	11208.2	11236.8	11658.9	12212.2	12193.1	11036.5
22.5°	11587.4	11813.9	12529.4	12410.1	11430.0	10833.8	10774.2	11322.7	12512.7	13189.9	12305.2
25°	13154.2	13383.1	13941.1	13406.9	11675.6	10745.6	10690.7	11220.1	12877.5	14162.9	13733.6
27.5°	14470.5	14644.6	15200.3	14377.5	12038.1	10783.7	10693.1	11234.5	13173.2	14990.4	14937.9
30°	15524.6	15653.4	15980.1	14830.6	12350.5	10950.7	10845.7	11444.3	13304.4	15393.4	15913.3
32.5°	16373.5	16590.6	16693.1	15314.7	12798.8	11265.5	11086.6	11847.3	13624.0	15891.8	16936.3
35°	17344.1	17594.5	17463.4	15777.4	13390.2	11756.7	11537.3	12500.7	14108.1	16352.1	18123.9
37.5°	18574.6	18863.2	18350.5	16263.8	14015.0	12496.0	12393.4	13418.9	14842.5	17010.3	19397.4
40°	19848.1	20015.0	19211.4	16855.3	14782.9	13571.5	13669.3	14782.9	15803.6	17799.6	20751.9
42.5°	20842.5	20999.9	20096.1	17351.3	15567.5	14847.3	15255.1	16428.4	16905.3	18608.0	21763.0
45°	21603.3	21736.8	20709.0	17892.6	16626.3	16695.5	17465.7	18123.9	18009.5	19101.7	22542.8
47.5°	22194.7	22309.1	21181.2	18474.5	18212.2	18956.2	20134.3	20413.3	19154.1	19635.9	23248.7
50°	22437.9	22471.3	21329.0	19216.1	20012.6	21837.0	23065.1	22895.8	20465.7	20229.6	23999.9
52.5°	22755.1	22747.9	21751.1	19922.0	21705.8	24412.5	25638.2	25254.3	21949.0	21119.2	24844.1
55°	23587.3	23596.9	22654.9	20923.6	23148.6	26491.9	27803.5	27524.5	23513.4	22621.5	25829.0
57.5°	24598.5	24634.2	23940.3	22094.5	24526.9	27999.1	29420.4	29313.1	25628.7	24293.2	26759.0
59°	24729.6	24801.2	24548.4	22919.6	25344.9	28461.7	29973.6	30078.6	26761.4	25395.0	27262.2
60°	24491.2	24610.4	24724.9	23387.0	25824.2	28628.7	30007.0	30212.1	27612.8	26143.8	27491.1
62.5°	23451.4	23639.8	24214.5	24825.0	26422.8	28108.8	28941.1	29370.3	28666.8	28111.2	27512.6
65°	22089.7	22187.5	23017.4	25080.2	25261.4	25681.1	25938.7	26489.6	27400.5	28869.5	26527.7
67.5°	19857.6	20146.2	21162.1	23599.3	21834.6	21338.5	21274.2	20725.7	23091.3	27061.9	24100.1
70°	16404.5	16533.3	17785.3	19347.3	16478.5	15715.4	16020.6	15815.5	17899.8	23296.4	19397.4
72.5°	12405.4	12696.3	13919.7	15422.0	11213.0	10223.3	11065.1	10988.8	13445.1	18722.5	13325.9
75°	8825.9	9014.3	10573.9	12069.1	7852.9	6653.4	6956.3	7240.0	9386.3	14782.9	7874.4
77.5°	6064.4	6226.5	7397.4	7981.7	5728.1	5487.3	5019.9	5294.1	6150.2	8771.0	4285.4
80°	3658.2	3651.0	4421.3	4564.4	3989.7	4633.5	3887.1	4364.1	3717.8	3753.6	1659.8
82.5°	2375.2	2351.3	2704.3	2947.5	2220.2	2334.6	1566.8	2258.3	2422.9	1046.9	524.6
85°	1063.6	1108.9	1299.7	1714.6	973.0	517.5	319.6	694.0	1032.6	527.0	0.0
87.5°	109.7	85.9	228.9	417.3	133.5	14.3	47.7	23.8	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°	10490.4	10490.4	10490.4	10490.4	10490.4	10490.4	10490.4	10490.4	10490.4	10490.4	10490.4
2.5°	11351.3	11213.0	10800.4	10414.1	10082.6	9677.2	9414.9	9002.3	8752.0	8675.6	8687.6
5°	10895.8	10497.6	9713.0	9085.8	8387.1	7988.8	7383.1	6801.2	6486.5	6369.6	6317.1
7.5°	9941.9	9515.1	8568.3	7583.4	6834.6	6135.9	5685.2	5172.5	4821.9	4533.4	4483.3
10°	9233.7	8673.3	7500.0	6441.2	5849.7	5325.1	4874.4	4361.7	3949.1	3620.0	3529.4
12.5°	8809.2	8182.0	6872.8	5985.7	5425.3	4886.3	4299.7	3705.9	3283.8	2928.4	2763.9
15°	8732.9	8005.5	6696.3	5659.0	4967.4	4316.4	3536.6	2895.1	2461.0	2124.8	2022.2
17.5°	9193.1	8322.7	6670.1	5317.9	4368.8	3445.9	2635.1	2103.3	1614.5	1426.1	1352.1
20°	10013.5	8883.1	6667.7	4922.1	3753.6	2654.2	1850.5	1371.2	1173.3	1082.7	1039.7
22.5°	11131.9	9646.2	6794.1	4581.1	3114.5	1957.9	1321.1	1092.2	977.7	903.8	887.1
25°	12498.4	10776.6	7104.1	4349.7	2625.6	1535.8	1089.8	934.8	839.4	806.0	791.7
27.5°	13712.2	11859.3	7445.1	4111.3	2275.0	1359.3	1011.1	856.1	779.8	753.6	732.1
30°	14759.1	12841.8	7609.7	3796.5	1993.6	1244.8	1025.4	915.7	815.6	736.9	701.1
32.5°	15631.9	13595.3	7717.0	3510.3	1755.2	1018.3	810.8	708.3	663.0	634.3	610.5
35°	16724.1	14410.9	7652.6	3348.2	1633.5	927.7	739.3	610.5	534.2	476.9	453.1
37.5°	17868.8	15226.5	7540.5	3214.6	1578.7	860.9	703.5	579.5	496.0	436.4	405.4
40°	19054.0	15982.4	7409.4	3090.6	1528.6	818.0	682.0	553.3	469.8	405.4	372.0
42.5°	20139.0	16719.3	7356.9	3009.5	1447.5	825.1	665.3	541.3	443.6	376.8	348.2
45°	21016.6	17418.1	7428.4	2966.6	1359.3	813.2	670.1	527.0	422.1	357.7	329.1
47.5°	21953.8	18405.3	7659.7	2923.7	1273.4	756.0	705.9	524.6	412.6	345.8	314.8
50°	23043.6	19669.2	8189.2	2818.7	1168.5	694.0	751.2	522.3	400.6	331.5	300.5
52.5°	24495.9	21104.8	8735.3	2635.1	1015.9	634.3	717.8	515.1	376.8	314.8	283.8
55°	25800.4	22616.8	9197.9	2418.1	822.7	548.5	646.3	484.1	336.2	286.2	257.6
57.5°	26339.3	23470.5	9183.6	2117.6	658.2	481.7	531.8	443.6	293.3	252.8	228.9
59°	26141.4	23363.2	8876.0	1895.9	601.0	445.9	441.2	438.8	274.2	228.9	209.9
60°	25862.4	22972.1	8544.5	1786.2	565.2	422.1	405.4	434.0	257.6	214.6	195.5
62.5°	24794.0	21350.5	7445.1	1600.2	517.5	357.7	324.3	367.2	228.9	186.0	169.3
65°	23246.3	18858.4	6302.8	1547.7	503.2	295.7	269.5	262.3	195.5	157.4	143.1
67.5°	20227.3	15958.6	5105.7	1511.9	507.9	248.0	236.1	197.9	162.2	131.2	121.6
70°	16194.7	12443.5	4180.4	1471.4	512.7	202.7	197.9	157.4	131.2	109.7	100.2
72.5°	9839.4	7376.0	3290.9	1278.2	498.4	162.2	176.5	119.2	95.4	78.7	73.9
75°	6083.4	5048.5	2041.3	994.4	329.1	119.2	124.0	73.9	64.4	50.1	50.1
77.5°	3524.6	3188.4	729.7	357.7	145.5	71.5	54.8	38.2	35.8	21.5	21.5
80°	1461.8	1170.9	252.8	121.6	78.7	33.4	11.9	2.4	0.0	0.0	0.0
82.5°	426.9	379.2	69.2	54.8	23.8	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°	10490.4	10490.4	10490.4	10490.4	10490.4	10490.4	10490.4	10490.4	10490.4	10490.4	10490.4
2.5°	8484.9	8406.2	8370.4	8492.0	8379.9	8523.0	8413.3	8461.0	8601.7	8663.7	8823.5
5°	6350.5	6269.5	6231.3	6414.9	6405.4	6496.0	6486.5	6569.9	6641.5	6481.7	6646.2
7.5°	4423.7	4368.8	4459.4	4602.5	4755.1	4705.1	4705.1	4593.0	4631.1	4607.3	4600.1
10°	3364.9	3176.5	3128.8	3124.0	3181.2	3193.2	3128.8	2973.8	3031.0	3047.7	3147.8
12.5°	2647.0	2501.6	2279.8	2179.6	2153.4	2174.9	1962.6	1826.7	1891.1	1852.9	1950.7
15°	1898.2	1779.0	1647.8	1535.8	1504.8	1461.8	1230.5	1068.4	1049.3	1056.4	1073.1
17.5°	1354.5	1273.4	1273.4	1154.2	1089.8	961.0	844.2	772.7	765.5	772.7	784.6
20°	999.2	956.3	951.5	920.5	849.0	763.1	682.0	667.7	663.0	674.9	679.6
22.5°	860.9	815.6	777.4	775.0	708.3	636.7	598.6	579.5	581.9	586.6	598.6
25°	770.3	722.6	682.0	658.2	610.5	560.4	524.6	515.1	515.1	522.3	524.6
27.5°	705.9	646.3	610.5	577.1	534.2	491.3	460.3	453.1	448.3	453.1	465.0
30°	660.6	601.0	555.6	505.6	472.2	431.6	405.4	395.9	393.5	395.9	405.4
32.5°	565.2	529.4	493.6	448.3	407.8	381.6	352.9	336.2	336.2	341.0	350.6
35°	426.9	407.8	405.4	393.5	360.1	331.5	298.1	281.4	281.4	290.9	295.7
37.5°	376.8	341.0	336.2	331.5	317.2	279.0	248.0	233.7	231.3	238.5	248.0
40°	343.4	302.9	281.4	276.6	279.0	236.1	202.7	188.4	188.4	190.8	200.3
42.5°	317.2	269.5	231.3	226.5	236.1	197.9	164.5	150.2	150.2	150.2	162.2
45°	295.7	240.9	195.5	171.7	186.0	162.2	133.5	119.2	114.5	119.2	124.0
47.5°	281.4	219.4	171.7	138.3	138.3	128.8	107.3	90.6	85.9	88.2	95.4
50°	269.5	200.3	145.5	112.1	100.2	102.5	81.1	69.2	64.4	64.4	71.5
52.5°	250.4	181.2	126.4	95.4	76.3	69.2	59.6	50.1	47.7	50.1	54.8
55°	226.5	164.5	109.7	78.7	59.6	47.7	42.9	35.8	33.4	35.8	42.9
57.5°	200.3	138.3	88.2	62.0	40.5	31.0	28.6	23.8	19.1	21.5	26.2
59°	183.6	124.0	76.3	50.1	31.0	21.5	21.5	16.7	11.9	14.3	21.5
60°	176.5	114.5	64.4	42.9	26.2	16.7	16.7	11.9	7.2	9.5	16.7
62.5°	150.2	95.4	50.1	26.2	11.9	2.4	7.2	2.4	0.0	2.4	7.2
65°	126.4	76.3	33.4	11.9	0.0	0.0	0.0	0.0	0.0	0.0	2.4
67.5°	104.9	57.2	16.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	83.5	38.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	57.2	21.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	35.8	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	14.3	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: P457858  
 CATALOG NUMBER: GALN-SA9B-727-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10490.4	10490.4	10490.4	10490.4	10490.4	10490.4	10490.4	10490.4	10490.4	10490.4
2.5°	8833.0	9174.0	9383.9	9779.8	10185.2	10497.6	10888.7	11239.2	11384.7	11461.0
5°	6813.2	7287.7	7690.7	8294.1	8854.5	9536.5	10228.1	11043.7	11356.1	11437.2
7.5°	4781.4	5265.5	5687.6	6386.3	7185.2	8098.5	9133.5	10168.5	10624.0	10752.7
10°	3453.1	3970.6	4485.7	5184.4	5930.8	6920.5	7998.4	9279.0	9803.6	9903.8
12.5°	2179.6	2735.3	3572.3	4435.6	5224.9	6021.4	7149.4	8542.1	9121.6	9305.2
15°	1263.9	1678.8	2310.8	3436.4	4440.4	5494.4	6724.9	8265.5	8914.1	9102.5
17.5°	846.6	989.7	1423.7	2284.6	3610.5	5007.9	6617.6	8492.0	9209.8	9450.7
20°	713.0	777.4	930.0	1392.7	2780.6	4573.9	6646.2	9107.3	10049.2	10349.7
22.5°	627.2	686.8	784.6	1001.6	1941.2	4035.0	6782.2	9987.2	11203.5	11587.4
25°	553.3	612.9	698.7	829.9	1304.4	3412.5	7080.3	11275.0	12732.1	13154.2
27.5°	491.3	546.1	620.0	732.1	1004.0	2718.6	7345.0	12529.4	14127.1	14470.5
30°	434.0	479.3	550.9	636.7	834.7	2096.2	7478.5	13626.3	15143.0	15524.6
32.5°	376.8	419.7	488.9	558.0	686.8	1597.8	7385.5	14432.4	16130.3	16373.5
35°	321.9	367.2	424.5	488.9	593.8	1290.1	6920.5	15338.6	17153.4	17344.1
37.5°	276.6	314.8	374.4	424.5	536.6	1032.6	6357.7	16154.1	18300.4	18574.6
40°	233.7	271.9	331.5	376.8	493.6	813.2	5849.7	17060.3	19509.5	19848.1
42.5°	190.8	236.1	288.6	362.5	424.5	620.0	5234.5	17794.8	20418.0	20842.5
45°	152.6	202.7	259.9	360.1	369.6	472.2	4640.7	18367.2	21221.7	21603.3
47.5°	121.6	171.7	250.4	336.2	302.9	374.4	4302.0	18965.7	21889.4	22194.7
50°	97.8	143.1	262.3	295.7	252.8	317.2	4292.5	19633.5	22235.2	22437.9
52.5°	78.7	116.9	221.8	226.5	214.6	279.0	4550.1	20384.7	22588.1	22755.1
55°	66.8	97.8	145.5	166.9	193.2	252.8	4743.2	21541.3	23430.0	23587.3
57.5°	52.5	83.5	112.1	133.5	171.7	231.3	4769.5	22433.1	24495.9	24598.5
59°	45.3	71.5	100.2	119.2	157.4	217.0	4662.1	22488.0	24565.1	24729.6
60°	38.2	64.4	88.2	112.1	145.5	205.1	4545.3	22089.7	24307.5	24491.2
62.5°	28.6	50.1	64.4	90.6	119.2	176.5	3992.0	20699.4	23322.6	23451.4
65°	19.1	35.8	47.7	66.8	93.0	152.6	3252.8	18896.6	21801.2	22089.7
67.5°	11.9	26.2	38.2	50.1	76.3	128.8	2318.0	16204.2	19671.6	19857.6
70°	7.2	16.7	28.6	40.5	59.6	102.5	1376.0	12808.4	16366.4	16404.5
72.5°	4.8	11.9	19.1	28.6	47.7	93.0	667.7	8348.9	11949.9	12405.4
75°	2.4	7.2	11.9	21.5	38.2	76.3	319.6	5577.9	8694.7	8825.9
77.5°	0.0	2.4	7.2	14.3	28.6	59.6	186.0	3662.9	5928.4	6064.4
80°	0.0	0.0	4.8	11.9	21.5	38.2	112.1	2160.6	3591.4	3658.2
82.5°	0.0	0.0	2.4	9.5	14.3	28.6	57.2	949.1	2351.3	2375.2
85°	0.0	0.0	2.4	9.5	11.9	19.1	21.5	128.8	1044.5	1063.6
87.5°	0.0	0.0	2.4	11.9	11.9	11.9	11.9	7.2	88.2	109.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)