

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: P457162

Luminaire Tested: **GALN-SA8C-727-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457162  
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-SA8C-727-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 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: 34096 lumens  
Efficiency: N/A  
Efficacy: 79.5 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

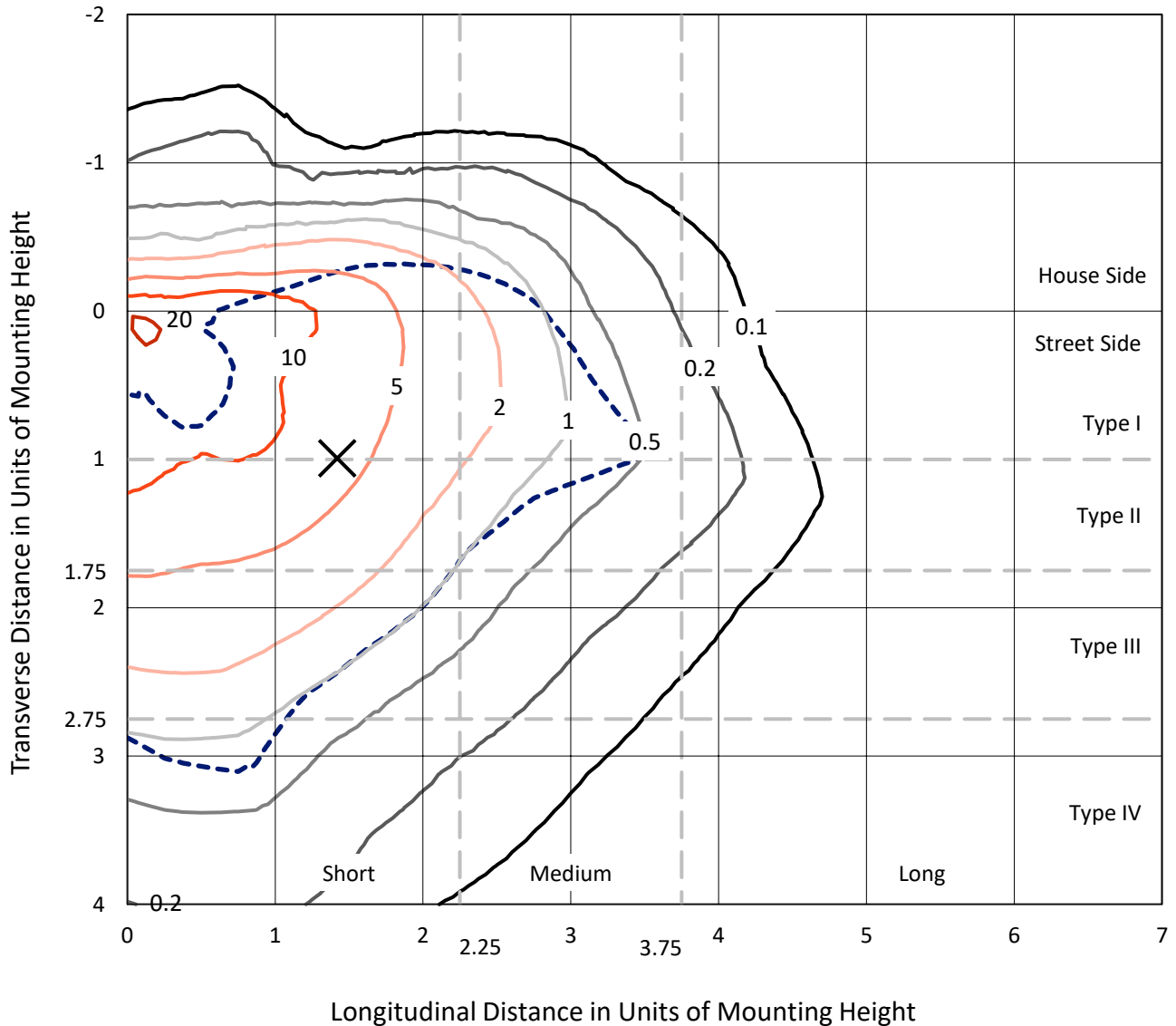
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

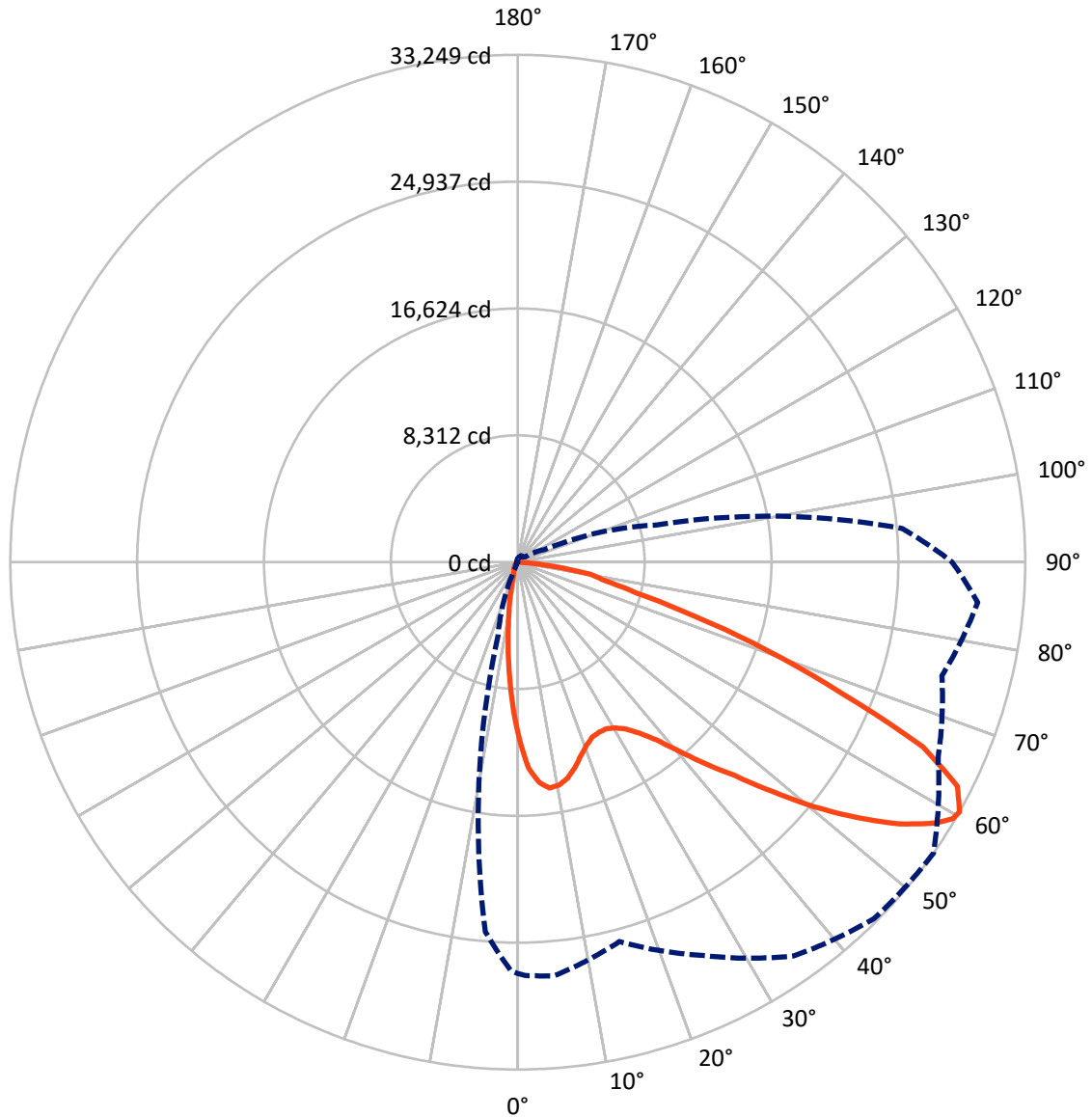
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.8 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	5060.1	0.0	5060.1
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	29035.9	0.0	29035.9
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	34096.0	0.0	34096.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	854.9	2.5
10°-20°	1683.5	4.9
20°-30°	2491.9	7.3
30°-40°	3714.5	10.9
40°-50°	5439.9	16.0
50°-60°	7853.4	23.0
60°-70°	8261.4	24.2
70°-80°	3398.5	10.0
80°-90°	398.0	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°	34096.0	100.0
0°-180°	34096.0	100.0

**Coefficient of Utilization**



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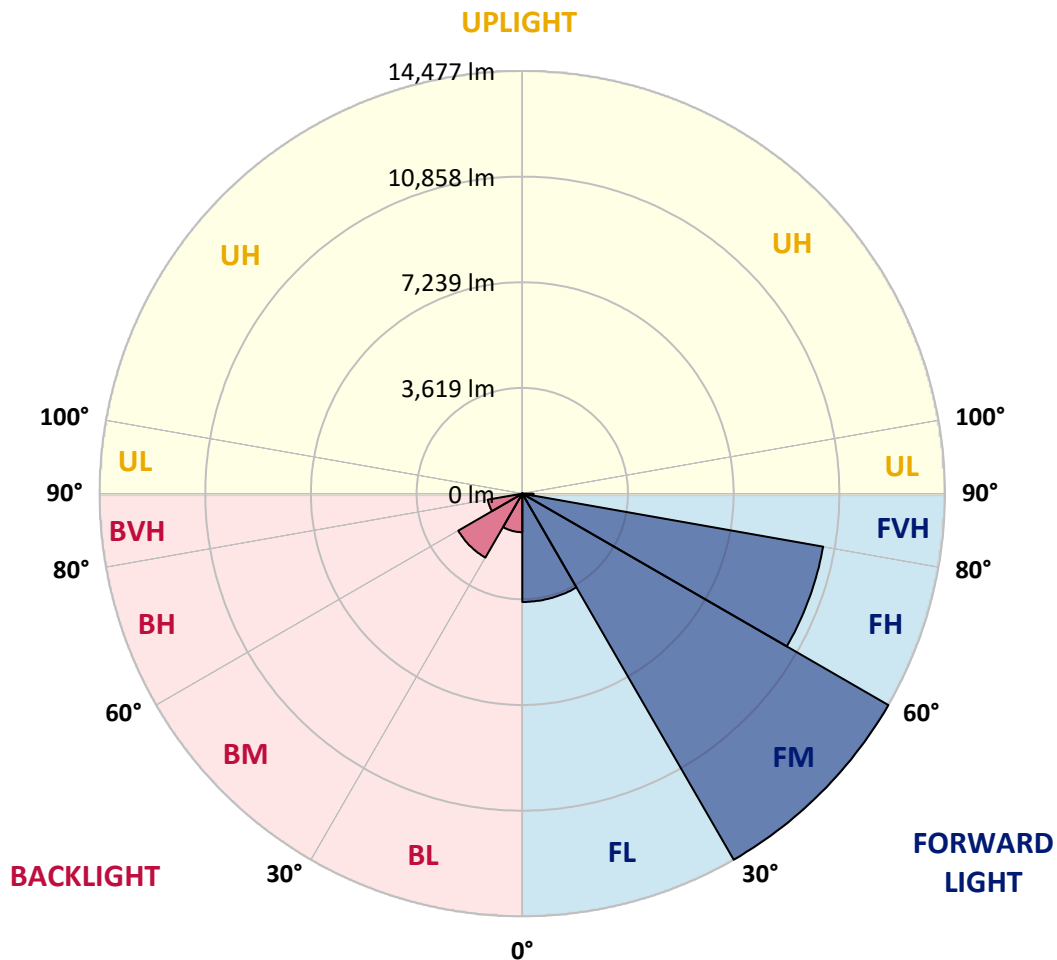
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3710.1	10.9			
FM (30°-60°)	14477.2	42.5			
FH (60°-80°)	10462.2	30.7			G4/12000
FVH (80°-90°)	386.3	1.1			G3/500
BL (0°-30°)	1320.2	3.9	B3/2500		
BM (30°-60°)	2530.5	7.4	B3/5000		
BH (60°-80°)	1197.7	3.5	B3/2500		G3/2500
BVH (80°-90°)	11.7	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°	11544.8	11544.8	11544.8	11544.8	11544.8	11544.8	11544.8	11544.8	11544.8	11544.8	11544.8
2.5°	12612.9	12592.0	12778.3	13082.7	13389.8	13549.9	13518.4	13505.3	13250.7	13064.3	12673.3
5°	12586.7	12694.3	13027.6	13851.7	14476.3	14778.1	14867.3	14492.0	13996.0	13276.9	12389.9
7.5°	11833.5	11967.3	12510.6	13799.2	14909.3	15565.4	15541.8	14940.8	13917.3	12804.5	11539.6
10°	10899.2	11056.7	11694.4	13258.6	14699.4	15565.4	15612.7	14851.6	13578.7	12151.1	10820.5
12.5°	10240.5	10426.8	11132.8	12754.7	14158.7	15011.7	15066.8	14515.7	13324.2	11899.1	10429.4
15°	10017.4	10193.2	10909.7	12500.1	13584.0	14043.3	14030.1	13972.4	13224.4	11959.5	10450.4
17.5°	10400.6	10544.9	11353.2	12615.6	13046.0	12998.7	13067.0	13345.2	13245.4	12466.0	11111.8
20°	11390.0	11536.9	12405.6	12969.9	12633.9	12334.8	12366.3	12830.8	13439.6	13418.6	12145.8
22.5°	12752.0	13001.4	13788.7	13657.5	12578.8	11922.7	11857.1	12460.7	13770.3	14515.7	13542.0
25°	14476.3	14728.2	15342.3	14754.5	12849.1	11825.6	11765.3	12347.9	14171.9	15586.4	15114.0
27.5°	15925.0	16116.5	16728.0	15822.6	13248.1	11867.6	11767.9	12363.6	14497.3	16497.1	16439.3
30°	17085.0	17226.7	17586.2	16321.3	13591.9	12051.3	11935.8	12594.6	14641.6	16940.6	17512.7
32.5°	18019.2	18258.1	18370.9	16854.0	14085.2	12397.7	12200.9	13038.1	14993.3	17489.1	18638.6
35°	19087.4	19363.0	19218.6	17363.1	14736.1	12938.4	12696.9	13757.2	15526.1	17995.6	19945.6
37.5°	20441.6	20759.1	20194.9	17898.5	15423.7	13751.9	13639.1	14767.6	16334.4	18720.0	21347.0
40°	21843.0	22026.7	21142.3	18549.4	16268.8	14935.6	15043.2	16268.8	17392.0	19588.7	22837.7
42.5°	22937.4	23110.6	22116.0	19095.3	17132.2	16339.6	16788.4	18079.6	18604.5	20478.3	23950.4
45°	23774.6	23921.6	22790.4	19691.0	18297.4	18373.5	19221.2	19945.6	19819.6	21021.6	24808.6
47.5°	24425.5	24551.4	23310.1	20331.4	20042.7	20861.5	22158.0	22465.0	21079.3	21609.5	25585.4
50°	24693.1	24729.9	23472.8	21147.6	22024.1	24031.8	25383.4	25197.0	22522.7	22262.9	26412.1
52.5°	25042.2	25034.3	23937.3	21924.4	23887.4	26866.2	28215.1	27792.6	24155.1	23241.8	27341.2
55°	25958.1	25968.6	24932.0	23026.6	25475.2	29154.7	30598.1	30291.0	25876.8	24895.2	28425.1
57.5°	27070.9	27110.2	26346.5	24315.2	26992.1	30813.3	32377.4	32259.3	28204.6	26734.9	29448.6
59°	27215.2	27293.9	27015.8	25223.3	27892.3	31322.4	32986.3	33101.8	29451.2	27947.4	30002.3
60°	26952.8	27084.0	27210.0	25737.7	28419.8	31506.1	33023.0	33248.7	30388.1	28771.5	30254.3
62.5°	25808.5	26015.8	26648.3	27320.2	29078.5	30934.0	31849.9	32322.3	31548.1	30936.6	30277.9
65°	24310.0	24417.6	25330.9	27601.0	27800.5	28262.3	28545.8	29152.0	30154.6	31771.2	29194.0
67.5°	21853.5	22171.1	23289.1	25971.2	24029.2	23483.3	23412.4	22808.8	25412.2	29781.9	26522.4
70°	18053.4	18195.1	19572.9	21291.9	18134.7	17294.9	17630.8	17405.1	19698.9	25637.9	21347.0
72.5°	13652.2	13972.4	15318.7	16972.1	12340.0	11250.9	12177.3	12093.3	14796.5	20604.3	14665.2
75°	9713.0	9920.3	11636.7	13282.2	8642.2	7322.1	7655.4	7967.7	10329.7	16268.8	8665.8
77.5°	6673.9	6852.4	8140.9	8783.9	6303.9	6038.8	5524.4	5826.2	6768.4	9652.6	4716.1
80°	4025.9	4018.0	4865.7	5023.1	4390.6	5099.2	4277.8	4802.7	4091.5	4130.8	1826.6
82.5°	2613.9	2587.7	2976.1	3243.8	2443.3	2569.3	1724.2	2485.3	2666.4	1152.1	577.4
85°	1170.5	1220.4	1430.3	1887.0	1070.8	569.5	351.7	763.7	1136.4	580.0	0.0
87.5°	120.7	94.5	251.9	459.3	147.0	15.7	52.5	26.2	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°	11544.8	11544.8	11544.8	11544.8	11544.8	11544.8	11544.8	11544.8	11544.8	11544.8	11544.8
2.5°	12492.2	12340.0	11886.0	11460.8	11096.0	10649.9	10361.2	9907.2	9631.6	9547.6	9560.8
5°	11991.0	11552.7	10689.3	9999.0	9230.1	8791.8	8125.2	7484.8	7138.4	7009.8	6952.1
7.5°	10941.2	10471.4	9429.5	8345.6	7521.6	6752.6	6256.6	5692.4	5306.6	4989.0	4933.9
10°	10161.7	9545.0	8253.8	7088.6	6437.7	5860.3	5364.3	4800.1	4346.0	3983.9	3884.1
12.5°	9694.6	9004.4	7563.6	6587.3	5970.5	5377.4	4731.8	4078.3	3613.8	3222.8	3041.7
15°	9610.6	8810.2	7369.4	6227.7	5466.7	4750.2	3892.0	3186.0	2708.4	2338.4	2225.5
17.5°	10117.1	9159.2	7340.5	5852.5	4807.9	3792.3	2900.0	2314.7	1776.7	1569.4	1488.0
20°	11019.9	9776.0	7337.9	5416.8	4130.8	2921.0	2036.5	1509.0	1291.2	1191.5	1144.2
22.5°	12250.8	10615.8	7477.0	5041.5	3427.5	2154.6	1453.9	1202.0	1076.0	994.7	976.3
25°	13754.6	11859.7	7818.1	4786.9	2889.5	1690.1	1199.4	1028.8	923.8	887.1	871.3
27.5°	15090.4	13051.2	8193.4	4524.5	2503.7	1495.9	1112.8	942.2	858.2	829.3	805.7
30°	16242.5	14132.5	8374.5	4178.1	2194.0	1369.9	1128.5	1007.8	897.6	810.9	771.6
32.5°	17203.1	14961.8	8492.6	3863.1	1931.6	1120.6	892.3	779.5	729.6	698.1	671.9
35°	18405.0	15859.4	8421.8	3684.7	1797.7	1020.9	813.6	671.9	587.9	524.9	498.6
37.5°	19664.8	16756.9	8298.4	3537.7	1737.4	947.4	774.2	637.7	545.9	480.3	446.2
40°	20969.1	17588.8	8154.1	3401.2	1682.3	900.2	750.6	608.9	517.0	446.2	409.4
42.5°	22163.2	18399.8	8096.3	3312.0	1593.0	908.0	732.2	595.7	488.1	414.7	383.2
45°	23129.0	19168.7	8175.1	3264.8	1495.9	894.9	737.5	580.0	464.5	393.7	362.2
47.5°	24160.4	20255.3	8429.6	3217.5	1401.4	831.9	776.8	577.4	454.0	380.5	346.4
50°	25359.7	21646.2	9012.2	3102.1	1286.0	763.7	826.7	574.7	440.9	364.8	330.7
52.5°	26958.0	23226.1	9613.2	2900.0	1118.0	698.1	789.9	566.9	414.7	346.4	312.3
55°	28393.6	24890.0	10122.4	2661.2	905.4	603.6	711.2	532.8	370.0	314.9	283.4
57.5°	28986.7	25829.5	10106.6	2330.5	724.3	530.1	585.2	488.1	322.8	278.2	251.9
59°	28768.9	25711.4	9768.1	2086.4	661.4	490.8	485.5	482.9	301.8	251.9	230.9
60°	28461.8	25281.0	9403.3	1965.7	622.0	464.5	446.2	477.6	283.4	236.2	215.2
62.5°	27286.1	23496.4	8193.4	1761.0	569.5	393.7	356.9	404.2	251.9	204.7	186.3
65°	25582.8	20753.9	6936.3	1703.2	553.8	325.4	296.6	288.7	215.2	173.2	157.5
67.5°	22260.3	17562.6	5618.9	1663.9	559.0	272.9	259.8	217.8	178.5	144.3	133.8
70°	17822.4	13694.2	4600.6	1619.3	564.2	223.1	217.8	173.2	144.3	120.7	110.2
72.5°	10828.3	8117.3	3621.7	1406.7	548.5	178.5	194.2	131.2	105.0	86.6	81.4
75°	6694.9	5555.9	2246.5	1094.4	362.2	131.2	136.5	81.4	70.9	55.1	55.1
77.5°	3878.9	3508.8	803.1	393.7	160.1	78.7	60.4	42.0	39.4	23.6	23.6
80°	1608.8	1288.6	278.2	133.8	86.6	36.7	13.1	2.6	0.0	0.0	0.0
82.5°	469.8	417.3	76.1	60.4	26.2	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°	11544.8	11544.8	11544.8	11544.8	11544.8	11544.8	11544.8	11544.8	11544.8	11544.8	11544.8
2.5°	9337.7	9251.1	9211.7	9345.5	9222.2	9379.7	9258.9	9311.4	9466.3	9534.5	9710.3
5°	6988.8	6899.6	6857.6	7059.7	7049.2	7148.9	7138.4	7230.3	7309.0	7133.2	7314.3
7.5°	4868.3	4807.9	4907.7	5065.1	5233.1	5178.0	5178.0	5054.6	5096.6	5070.4	5062.5
10°	3703.1	3495.7	3443.2	3438.0	3501.0	3514.1	3443.2	3272.6	3335.6	3354.0	3464.2
12.5°	2913.1	2753.0	2508.9	2398.7	2369.8	2393.5	2159.9	2010.3	2081.2	2039.2	2146.8
15°	2089.0	1957.8	1813.5	1690.1	1656.0	1608.8	1354.2	1175.7	1154.7	1162.6	1181.0
17.5°	1490.7	1401.4	1401.4	1270.2	1199.4	1057.6	929.0	850.3	842.4	850.3	863.4
20°	1099.6	1052.4	1047.1	1013.0	934.3	839.8	750.6	734.8	729.6	742.7	748.0
22.5°	947.4	897.6	855.6	852.9	779.5	700.7	658.7	637.7	640.4	645.6	658.7
25°	847.7	795.2	750.6	724.3	671.9	616.7	577.4	566.9	566.9	574.7	577.4
27.5°	776.8	711.2	671.9	635.1	587.9	540.6	506.5	498.6	493.4	498.6	511.8
30°	727.0	661.4	611.5	556.4	519.6	475.0	446.2	435.7	433.0	435.7	446.2
32.5°	622.0	582.6	543.3	493.4	448.8	419.9	388.4	370.0	370.0	375.3	385.8
35°	469.8	448.8	446.2	433.0	396.3	364.8	328.1	309.7	309.7	320.2	325.4
37.5°	414.7	375.3	370.0	364.8	349.0	307.1	272.9	257.2	254.6	262.4	272.9
40°	377.9	333.3	309.7	304.4	307.1	259.8	223.1	207.3	207.3	210.0	220.5
42.5°	349.0	296.6	254.6	249.3	259.8	217.8	181.1	165.3	165.3	165.3	178.5
45°	325.4	265.1	215.2	189.0	204.7	178.5	147.0	131.2	126.0	131.2	136.5
47.5°	309.7	241.4	189.0	152.2	152.2	141.7	118.1	99.7	94.5	97.1	105.0
50°	296.6	220.5	160.1	123.3	110.2	112.8	89.2	76.1	70.9	70.9	78.7
52.5°	275.6	199.5	139.1	105.0	84.0	76.1	65.6	55.1	52.5	55.1	60.4
55°	249.3	181.1	120.7	86.6	65.6	52.5	47.2	39.4	36.7	39.4	47.2
57.5°	220.5	152.2	97.1	68.2	44.6	34.1	31.5	26.2	21.0	23.6	28.9
59°	202.1	136.5	84.0	55.1	34.1	23.6	23.6	18.4	13.1	15.7	23.6
60°	194.2	126.0	70.9	47.2	28.9	18.4	18.4	13.1	7.9	10.5	18.4
62.5°	165.3	105.0	55.1	28.9	13.1	2.6	7.9	2.6	0.0	2.6	7.9
65°	139.1	84.0	36.7	13.1	0.0	0.0	0.0	0.0	0.0	0.0	2.6
67.5°	115.5	63.0	18.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	91.9	42.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	63.0	23.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	39.4	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	15.7	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: P457162

CATALOG NUMBER: GALN-SA8C-727-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11544.8	11544.8	11544.8	11544.8	11544.8	11544.8	11544.8	11544.8	11544.8	11544.8
2.5°	9720.8	10096.1	10327.1	10762.7	11208.9	11552.7	11983.1	12368.9	12529.0	12612.9
5°	7498.0	8020.2	8463.7	9127.7	9744.5	10495.0	11256.1	12153.7	12497.5	12586.7
7.5°	5262.0	5794.7	6259.2	7028.2	7907.4	8912.5	10051.5	11190.5	11691.8	11833.5
10°	3800.2	4369.7	4936.5	5705.5	6526.9	7616.1	8802.3	10211.6	10789.0	10899.2
12.5°	2398.7	3010.2	3931.4	4881.4	5750.1	6626.7	7868.0	9400.7	10038.4	10240.5
15°	1390.9	1847.6	2543.1	3781.8	4886.7	6046.7	7400.9	9096.2	9810.1	10017.4
17.5°	931.7	1089.1	1566.8	2514.2	3973.4	5511.3	7282.8	9345.5	10135.5	10400.6
20°	784.7	855.6	1023.5	1532.7	3060.1	5033.6	7314.3	10022.6	11059.3	11390.0
22.5°	690.2	755.8	863.4	1102.3	2136.3	4440.5	7463.8	10991.1	12329.5	12752.0
25°	608.9	674.5	769.0	913.3	1435.6	3755.5	7791.9	12408.2	14011.8	14476.3
27.5°	540.6	601.0	682.3	805.7	1104.9	2991.8	8083.2	13788.7	15547.0	15925.0
30°	477.6	527.5	606.2	700.7	918.5	2306.9	8230.2	14995.9	16665.0	17085.0
32.5°	414.7	461.9	538.0	614.1	755.8	1758.4	8127.8	15883.0	17751.6	18019.2
35°	354.3	404.2	467.1	538.0	653.5	1419.8	7616.1	16880.3	18877.4	19087.4
37.5°	304.4	346.4	412.0	467.1	590.5	1136.4	6996.7	17777.8	20139.8	20441.6
40°	257.2	299.2	364.8	414.7	543.3	894.9	6437.7	18775.1	21470.4	21843.0
42.5°	210.0	259.8	317.6	398.9	467.1	682.3	5760.6	19583.4	22470.3	22937.4
45°	168.0	223.1	286.1	396.3	406.8	519.6	5107.1	20213.3	23354.7	23774.6
47.5°	133.8	189.0	275.6	370.0	333.3	412.0	4734.4	20872.0	24089.5	24425.5
50°	107.6	157.5	288.7	325.4	278.2	349.0	4724.0	21606.8	24470.1	24693.1
52.5°	86.6	128.6	244.1	249.3	236.2	307.1	5007.4	22433.5	24858.5	25042.2
55°	73.5	107.6	160.1	183.7	212.6	278.2	5220.0	23706.4	25784.9	25958.1
57.5°	57.7	91.9	123.3	147.0	189.0	254.6	5248.8	24687.9	26958.0	27070.9
59°	49.9	78.7	110.2	131.2	173.2	238.8	5130.7	24748.3	27034.1	27215.2
60°	42.0	70.9	97.1	123.3	160.1	225.7	5002.1	24310.0	26750.7	26952.8
62.5°	31.5	55.1	70.9	99.7	131.2	194.2	4393.3	22779.9	25666.8	25808.5
65°	21.0	39.4	52.5	73.5	102.4	168.0	3579.7	20795.9	23992.4	24310.0
67.5°	13.1	28.9	42.0	55.1	84.0	141.7	2550.9	17832.9	21648.8	21853.5
70°	7.9	18.4	31.5	44.6	65.6	112.8	1514.3	14095.7	18011.4	18053.4
72.5°	5.2	13.1	21.0	31.5	52.5	102.4	734.8	9188.1	13151.0	13652.2
75°	2.6	7.9	13.1	23.6	42.0	84.0	351.7	6138.5	9568.6	9713.0
77.5°	0.0	2.6	7.9	15.7	31.5	65.6	204.7	4031.1	6524.3	6673.9
80°	0.0	0.0	5.2	13.1	23.6	42.0	123.3	2377.7	3952.4	4025.9
82.5°	0.0	0.0	2.6	10.5	15.7	31.5	63.0	1044.5	2587.7	2613.9
85°	0.0	0.0	2.6	10.5	13.1	21.0	23.6	141.7	1149.5	1170.5
87.5°	0.0	0.0	2.6	13.1	13.1	13.1	13.1	7.9	97.1	120.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)