

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: P456234

Luminaire Tested: **GALN-SA7C-727-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456234  
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-SA7C-727-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 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: 29410 lumens  
Efficiency: N/A  
Efficacy: 78.0 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

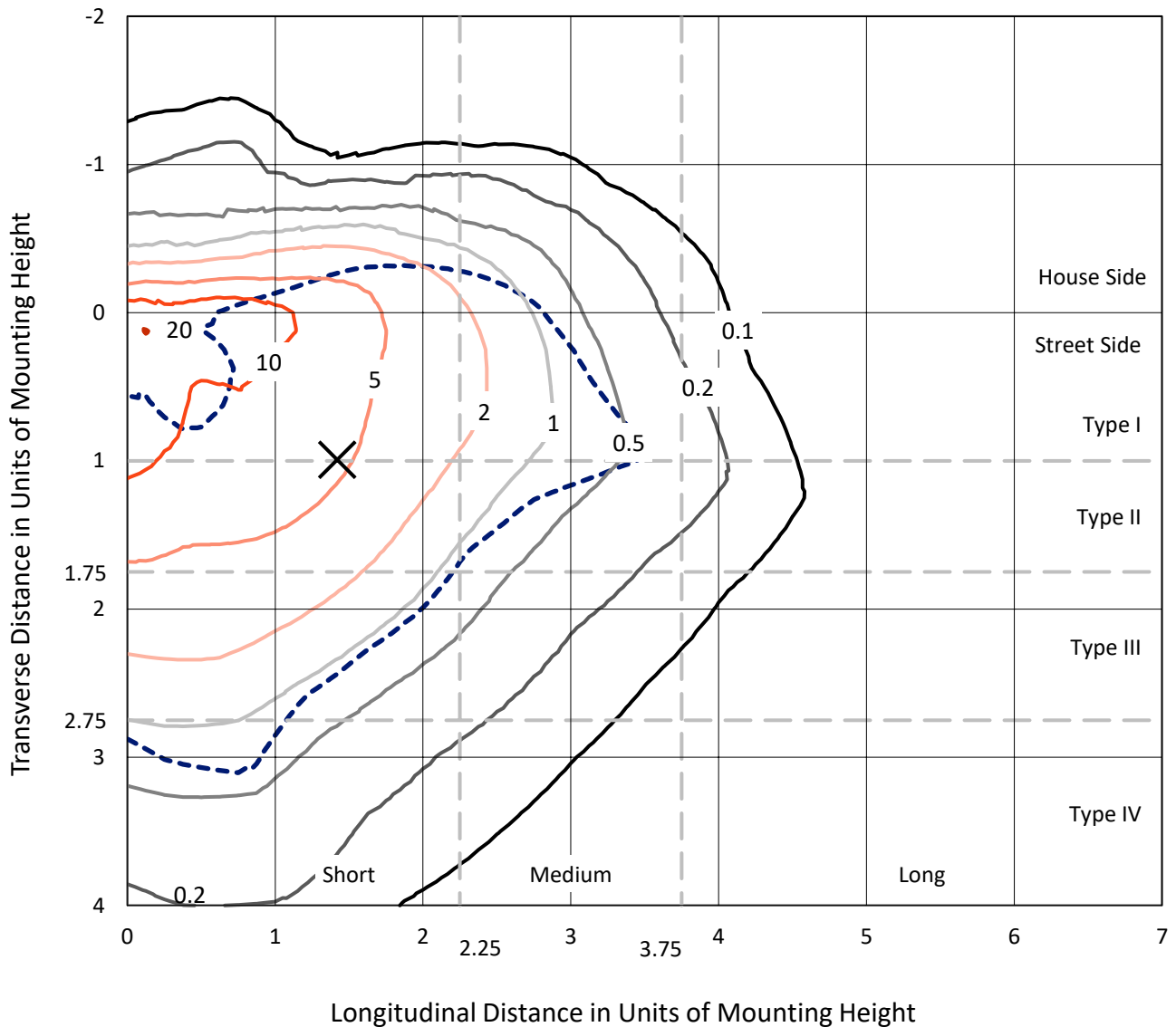
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

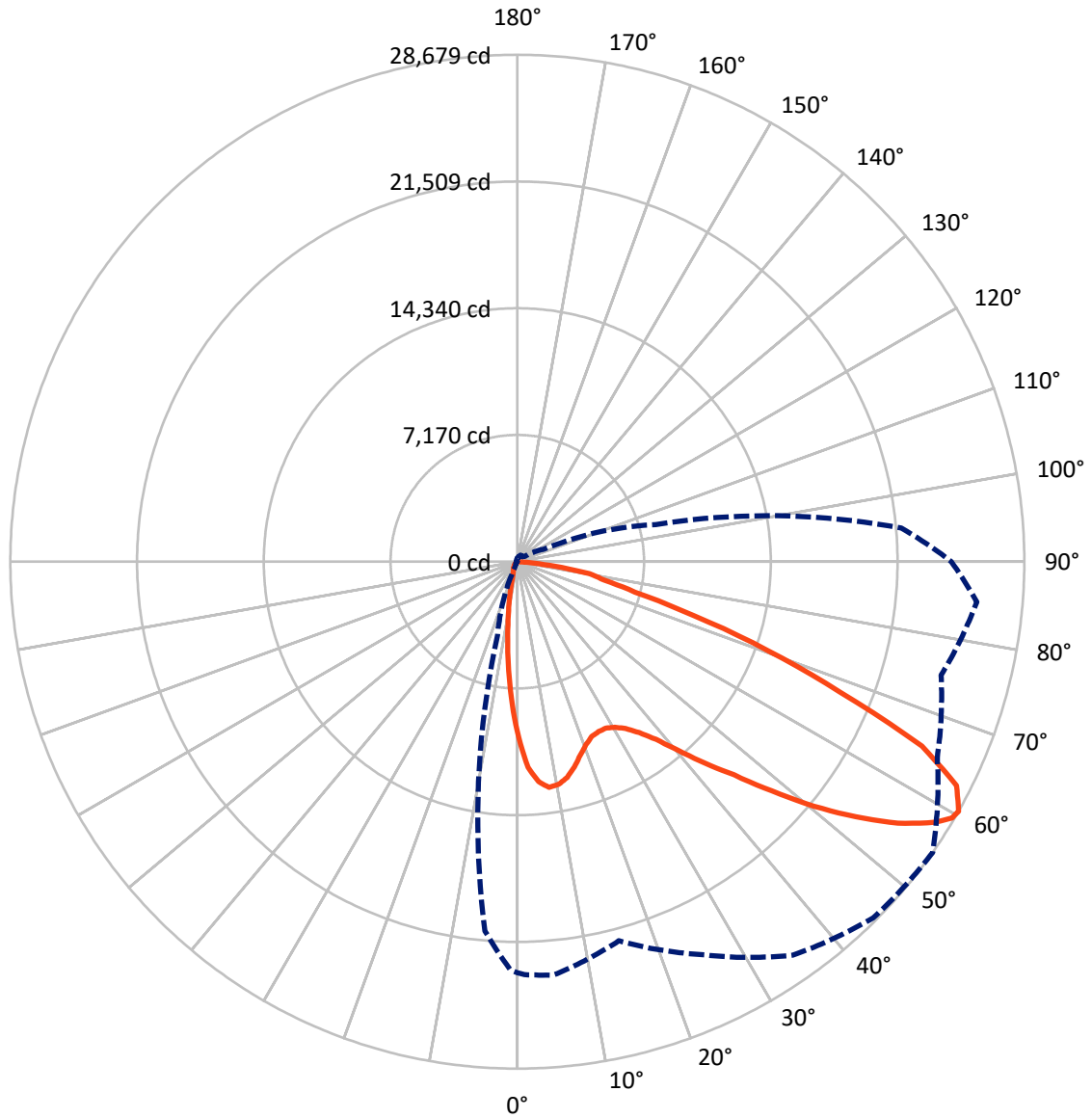
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.6 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	4364.7	0.0	4364.7
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	25045.3	0.0	25045.3
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	29410.0	0.0	29410.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	737.4	2.5
10°-20°	1452.1	4.9
20°-30°	2149.4	7.3
30°-40°	3204.0	10.9
40°-50°	4692.2	16.0
50°-60°	6774.1	23.0
60°-70°	7126.0	24.2
70°-80°	2931.4	10.0
80°-90°	343.3	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°	29410.0	100.0
0°-180°	29410.0	100.0

**Coefficient of Utilization**



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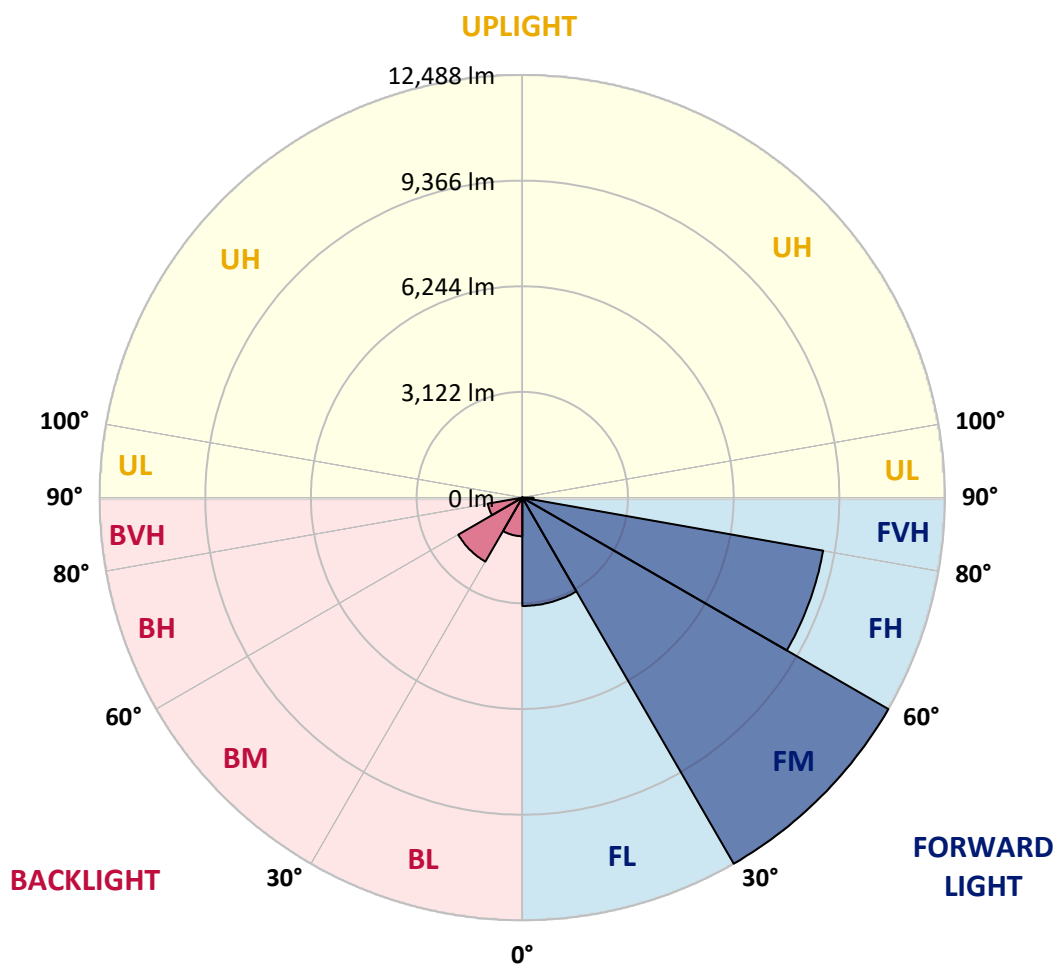
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3200.2	10.9			
FM	(30°-60°)	12487.5	42.5			
FH	(60°-80°)	9024.3	30.7			G4/12000
FVH	(80°-90°)	333.2	1.1			G3/500
BL	(0°-30°)	1138.8	3.9	B3/2500		
BM	(30°-60°)	2182.7	7.4	B2/2500		
BH	(60°-80°)	1033.1	3.5	B3/2500		G3/2500
BVH	(80°-90°)	10.1	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°	9958.1	9958.1	9958.1	9958.1	9958.1	9958.1	9958.1	9958.1	9958.1	9958.1	9958.1
2.5°	10879.5	10861.4	11022.1	11284.7	11549.5	11687.6	11660.5	11649.2	11429.6	11268.8	10931.5
5°	10856.8	10949.7	11237.2	11948.0	12486.7	12747.1	12824.0	12500.3	12072.5	11452.2	10687.1
7.5°	10207.2	10322.6	10791.2	11902.7	12860.2	13426.2	13405.8	12887.4	12004.6	11044.7	9953.6
10°	9401.3	9537.1	10087.2	11436.4	12679.1	13426.2	13466.9	12810.4	11712.5	10481.1	9333.4
12.5°	8833.1	8993.8	9602.7	11001.7	12212.8	12948.5	12996.1	12520.7	11493.0	10263.7	8996.1
15°	8640.7	8792.3	9410.3	10782.1	11717.1	12113.2	12101.9	12052.1	11406.9	10315.8	9014.2
17.5°	8971.2	9095.7	9792.9	10881.7	11253.0	11212.3	11271.1	11511.1	11425.0	10752.7	9584.6
20°	9824.6	9951.4	10700.6	11187.3	10897.6	10639.5	10666.7	11067.4	11592.6	11574.4	10476.5
22.5°	10999.5	11214.5	11893.6	11780.4	10850.1	10284.1	10227.5	10748.2	11877.8	12520.7	11680.8
25°	12486.7	12704.0	13233.8	12726.7	11083.2	10200.4	10148.3	10650.8	12224.1	13444.3	13036.8
27.5°	13736.3	13901.6	14429.0	13648.0	11427.3	10236.6	10150.6	10664.4	12504.8	14229.8	14180.0
30°	14736.9	14859.1	15169.2	14078.1	11723.9	10395.0	10295.4	10863.6	12629.3	14612.4	15105.9
32.5°	15542.8	15748.8	15846.1	14537.7	12149.4	10693.9	10524.1	11246.2	12932.7	15085.5	16077.0
35°	16464.1	16701.8	16577.3	14976.8	12710.8	11160.2	10951.9	11866.5	13392.2	15522.4	17204.3
37.5°	17632.2	17906.1	17419.4	15438.6	13303.9	11861.9	11764.6	12738.0	14089.5	16147.2	18413.2
40°	18841.0	18999.5	18236.6	16000.0	14032.9	12882.9	12975.7	14032.9	15001.7	16896.5	19699.0
42.5°	19785.0	19934.4	19076.4	16470.9	14777.6	14094.0	14481.1	15594.8	16047.6	17663.9	20658.8
45°	20507.1	20633.9	19658.2	16984.8	15782.7	15848.4	16579.6	17204.3	17095.7	18132.5	21399.0
47.5°	21068.5	21177.2	20106.4	17537.1	17288.1	17994.4	19112.7	19377.5	18182.3	18639.5	22069.1
50°	21299.4	21331.1	20246.8	18241.1	18997.2	20729.0	21894.8	21734.1	19427.3	19203.2	22782.2
52.5°	21600.5	21593.7	20647.5	18911.2	20604.5	23173.8	24337.4	23972.9	20835.4	20047.6	23583.5
55°	22390.5	22399.6	21505.4	19862.0	21974.0	25147.8	26392.8	26128.0	22320.4	21473.7	24518.5
57.5°	23350.4	23384.3	22725.6	20973.5	23282.5	26578.4	27927.6	27825.8	24328.3	23060.6	25401.3
59°	23474.9	23542.8	23302.8	21756.7	24058.9	27017.6	28452.8	28552.4	25403.6	24106.5	25879.0
60°	23248.5	23361.7	23470.3	22200.4	24513.9	27176.1	28484.5	28679.2	26211.7	24817.3	26096.3
62.5°	22261.5	22440.3	22985.9	23565.4	25082.1	26682.6	27472.6	27880.1	27212.3	26684.8	26116.6
65°	20968.9	21061.7	21849.5	23807.6	23979.7	24378.1	24622.6	25145.5	26010.2	27404.7	25181.7
67.5°	18850.1	19124.0	20088.3	22401.9	20726.7	20255.8	20194.7	19674.1	21919.7	25688.8	22877.2
70°	15572.2	15694.4	16882.9	18365.6	15642.4	14918.0	15207.7	15013.1	16991.6	22114.4	18413.2
72.5°	11775.9	12052.1	13213.4	14639.5	10644.1	9704.6	10503.7	10431.3	12762.9	17772.5	12649.7
75°	8378.1	8556.9	10037.4	11456.7	7454.5	6315.8	6603.3	6872.7	8910.0	14032.9	7474.8
77.5°	5756.7	5910.6	7022.1	7576.7	5437.5	5208.8	4765.1	5025.5	5838.2	8326.0	4067.9
80°	3472.6	3465.8	4197.0	4332.8	3787.2	4398.4	3689.9	4142.6	3529.2	3563.1	1575.6
82.5°	2254.7	2232.0	2567.1	2798.0	2107.5	2216.2	1487.3	2143.8	2299.9	993.8	498.0
85°	1009.6	1052.6	1233.7	1627.6	923.6	491.2	303.3	658.7	980.2	500.3	0.0
87.5°	104.1	81.5	217.3	396.2	126.8	13.6	45.3	22.6	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°	9958.1	9958.1	9958.1	9958.1	9958.1	9958.1	9958.1	9958.1	9958.1	9958.1	9958.1
2.5°	10775.4	10644.1	10252.4	9885.7	9571.0	9186.2	8937.2	8545.6	8307.9	8235.4	8246.8
5°	10343.0	9964.9	9220.2	8624.8	7961.5	7583.5	7008.5	6456.2	6157.3	6046.4	5996.6
7.5°	9437.5	9032.3	8133.6	7198.7	6487.8	5824.6	5396.7	4910.0	4577.3	4303.3	4255.8
10°	8765.2	8233.2	7119.4	6114.3	5552.9	5054.9	4627.1	4140.4	3748.7	3436.3	3350.3
12.5°	8362.2	7766.9	6524.1	5682.0	5150.0	4638.4	4081.5	3517.8	3117.2	2779.9	2623.7
15°	8289.8	7599.3	6356.6	5371.8	4715.3	4097.3	3357.1	2748.2	2336.2	2017.0	1919.6
17.5°	8726.7	7900.4	6331.7	5048.1	4147.2	3271.1	2501.4	1996.6	1532.5	1353.7	1283.5
20°	9505.4	8432.4	6329.4	4672.3	3563.1	2519.5	1756.7	1301.6	1113.8	1027.7	987.0
22.5°	10567.1	9156.8	6449.4	4348.6	2956.4	1858.5	1254.1	1036.8	928.1	858.0	842.1
25°	11864.2	10229.8	6743.6	4129.0	2492.4	1457.8	1034.5	887.4	796.8	765.1	751.6
27.5°	13016.4	11257.5	7067.4	3902.7	2159.6	1290.3	959.8	812.7	740.2	715.3	695.0
30°	14010.2	12190.2	7223.6	3603.9	1892.5	1181.7	973.4	869.3	774.2	699.5	665.5
32.5°	14838.7	12905.5	7325.4	3332.2	1666.1	966.6	769.7	672.3	629.3	602.2	579.5
35°	15875.5	13679.7	7264.3	3178.3	1550.7	880.6	701.8	579.5	507.1	452.7	430.1
37.5°	16962.1	14453.9	7157.9	3051.5	1498.6	817.2	667.8	550.1	470.9	414.3	384.8
40°	18087.2	15171.5	7033.4	2933.8	1451.1	776.5	647.4	525.2	446.0	384.8	353.1
42.5°	19117.2	15871.0	6983.6	2856.8	1374.1	783.3	631.6	513.9	421.1	357.7	330.5
45°	19950.2	16534.3	7051.5	2816.1	1290.3	771.9	636.1	500.3	400.7	339.6	312.4
47.5°	20839.9	17471.5	7271.1	2775.3	1208.8	717.6	670.1	498.0	391.6	328.2	298.8
50°	21874.4	18671.2	7773.6	2675.7	1109.2	658.7	713.1	495.8	380.3	314.7	285.2
52.5°	23253.0	20034.0	8292.0	2501.4	964.3	602.2	681.4	489.0	357.7	298.8	269.4
55°	24491.3	21469.2	8731.2	2295.4	781.0	520.7	613.5	459.5	319.2	271.6	244.5
57.5°	25002.9	22279.6	8717.6	2010.2	624.8	457.3	504.8	421.1	278.4	240.0	217.3
59°	24815.0	22177.8	8425.6	1799.7	570.5	423.3	418.8	416.5	260.3	217.3	199.2
60°	24550.1	21806.5	8110.9	1695.5	536.5	400.7	384.8	412.0	244.5	203.7	185.6
62.5°	23536.0	20267.2	7067.4	1519.0	491.2	339.6	307.9	348.6	217.3	176.6	160.7
65°	22066.8	17901.6	5983.0	1469.2	477.6	280.7	255.8	249.0	185.6	149.4	135.8
67.5°	19201.0	15148.9	4846.6	1435.2	482.2	235.4	224.1	187.9	153.9	124.5	115.5
70°	15373.0	11812.1	3968.3	1396.7	486.7	192.4	187.9	149.4	124.5	104.1	95.1
72.5°	9340.1	7001.7	3123.9	1213.4	473.1	153.9	167.5	113.2	90.5	74.7	70.2
75°	5774.8	4792.3	1937.8	944.0	312.4	113.2	117.7	70.2	61.1	47.5	47.5
77.5°	3345.8	3026.6	692.7	339.6	138.1	67.9	52.1	36.2	34.0	20.4	20.4
80°	1387.7	1111.5	240.0	115.5	74.7	31.7	11.3	2.3	0.0	0.0	0.0
82.5°	405.2	359.9	65.6	52.1	22.6	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°	9958.1	9958.1	9958.1	9958.1	9958.1	9958.1	9958.1	9958.1	9958.1	9958.1	9958.1
2.5°	8054.3	7979.6	7945.7	8061.1	7954.7	8090.6	7986.4	8031.7	8165.3	8224.1	8375.8
5°	6028.3	5951.3	5915.1	6089.4	6080.4	6166.4	6157.3	6236.6	6304.5	6152.8	6309.0
7.5°	4199.2	4147.2	4233.2	4369.0	4513.9	4466.3	4466.3	4359.9	4396.2	4373.5	4366.7
10°	3194.1	3015.3	2970.0	2965.5	3019.8	3031.1	2970.0	2822.9	2877.2	2893.0	2988.1
12.5°	2512.7	2374.7	2164.1	2069.0	2044.1	2064.5	1863.0	1734.0	1795.1	1758.9	1851.7
15°	1801.9	1688.7	1564.2	1457.8	1428.4	1387.7	1168.1	1014.2	996.0	1002.8	1018.7
17.5°	1285.8	1208.8	1208.8	1095.6	1034.5	912.3	801.4	733.4	726.7	733.4	744.8
20°	948.5	907.8	903.2	873.8	805.9	724.4	647.4	633.8	629.3	640.6	645.2
22.5°	817.2	774.2	738.0	735.7	672.3	604.4	568.2	550.1	552.3	556.9	568.2
25°	731.2	685.9	647.4	624.8	579.5	532.0	498.0	489.0	489.0	495.8	498.0
27.5°	670.1	613.5	579.5	547.8	507.1	466.3	436.9	430.1	425.6	430.1	441.4
30°	627.1	570.5	527.4	479.9	448.2	409.7	384.8	375.8	373.5	375.8	384.8
32.5°	536.5	502.5	468.6	425.6	387.1	362.2	335.0	319.2	319.2	323.7	332.8
35°	405.2	387.1	384.8	373.5	341.8	314.7	283.0	267.1	267.1	276.2	280.7
37.5°	357.7	323.7	319.2	314.7	301.1	264.9	235.4	221.8	219.6	226.4	235.4
40°	326.0	287.5	267.1	262.6	264.9	224.1	192.4	178.8	178.8	181.1	190.2
42.5°	301.1	255.8	219.6	215.1	224.1	187.9	156.2	142.6	142.6	142.6	153.9
45°	280.7	228.6	185.6	163.0	176.6	153.9	126.8	113.2	108.7	113.2	117.7
47.5°	267.1	208.3	163.0	131.3	131.3	122.2	101.9	86.0	81.5	83.8	90.5
50°	255.8	190.2	138.1	106.4	95.1	97.3	77.0	65.6	61.1	61.1	67.9
52.5°	237.7	172.0	120.0	90.5	72.4	65.6	56.6	47.5	45.3	47.5	52.1
55°	215.1	156.2	104.1	74.7	56.6	45.3	40.7	34.0	31.7	34.0	40.7
57.5°	190.2	131.3	83.8	58.9	38.5	29.4	27.2	22.6	18.1	20.4	24.9
59°	174.3	117.7	72.4	47.5	29.4	20.4	20.4	15.8	11.3	13.6	20.4
60°	167.5	108.7	61.1	40.7	24.9	15.8	15.8	11.3	6.8	9.1	15.8
62.5°	142.6	90.5	47.5	24.9	11.3	2.3	6.8	2.3	0.0	2.3	6.8
65°	120.0	72.4	31.7	11.3	0.0	0.0	0.0	0.0	0.0	0.0	2.3
67.5°	99.6	54.3	15.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	79.2	36.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	54.3	20.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	34.0	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	13.6	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: P456234  
 CATALOG NUMBER: GALN-SA7C-727-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9958.1	9958.1	9958.1	9958.1	9958.1	9958.1	9958.1	9958.1	9958.1	9958.1
2.5°	8384.9	8708.6	8907.8	9283.6	9668.4	9964.9	10336.2	10669.0	10807.0	10879.5
5°	6467.5	6918.0	7300.5	7873.3	8405.2	9052.7	9709.1	10483.3	10779.9	10856.8
7.5°	4538.8	4998.3	5399.0	6062.3	6820.6	7687.6	8670.1	9652.5	10084.9	10207.2
10°	3277.9	3769.1	4258.1	4921.3	5629.9	6569.3	7592.5	8808.2	9306.2	9401.3
12.5°	2069.0	2596.5	3391.1	4210.5	4959.8	5715.9	6786.7	8108.7	8658.8	8833.1
15°	1199.8	1593.7	2193.6	3262.0	4215.1	5215.6	6383.7	7846.1	8461.8	8640.7
17.5°	803.6	939.4	1351.4	2168.7	3427.3	4753.8	6281.8	8061.1	8742.5	8971.2
20°	676.9	738.0	882.9	1322.0	2639.5	4341.8	6309.0	8645.2	9539.4	9824.6
22.5°	595.4	652.0	744.8	950.8	1842.7	3830.2	6438.0	9480.5	10635.0	10999.5
25°	525.2	581.8	663.3	787.8	1238.3	3239.4	6721.0	10702.9	12086.1	12486.7
27.5°	466.3	518.4	588.6	695.0	953.0	2580.7	6972.3	11893.6	13410.3	13736.3
30°	412.0	455.0	522.9	604.4	792.3	1989.8	7099.1	12934.9	14374.7	14736.9
32.5°	357.7	398.4	464.1	529.7	652.0	1516.7	7010.8	13700.1	15311.9	15542.8
35°	305.6	348.6	402.9	464.1	563.7	1224.7	6569.3	14560.3	16283.0	16464.1
37.5°	262.6	298.8	355.4	402.9	509.3	980.2	6035.1	15334.5	17371.9	17632.2
40°	221.8	258.1	314.7	357.7	468.6	771.9	5552.9	16194.7	18519.6	18841.0
42.5°	181.1	224.1	273.9	344.1	402.9	588.6	4968.9	16891.9	19382.0	19785.0
45°	144.9	192.4	246.7	341.8	350.9	448.2	4405.2	17435.2	20144.9	20507.1
47.5°	115.5	163.0	237.7	319.2	287.5	355.4	4083.8	18003.4	20778.8	21068.5
50°	92.8	135.8	249.0	280.7	240.0	301.1	4074.7	18637.3	21107.0	21299.4
52.5°	74.7	110.9	210.5	215.1	203.7	264.9	4319.2	19350.4	21442.0	21600.5
55°	63.4	92.8	138.1	158.5	183.4	240.0	4502.6	20448.3	22241.1	22390.5
57.5°	49.8	79.2	106.4	126.8	163.0	219.6	4527.5	21294.9	23253.0	23350.4
59°	43.0	67.9	95.1	113.2	149.4	206.0	4425.6	21347.0	23318.7	23474.9
60°	36.2	61.1	83.8	106.4	138.1	194.7	4314.7	20968.9	23074.2	23248.5
62.5°	27.2	47.5	61.1	86.0	113.2	167.5	3789.5	19649.2	22139.3	22261.5
65°	18.1	34.0	45.3	63.4	88.3	144.9	3087.7	17937.8	20695.0	20968.9
67.5°	11.3	24.9	36.2	47.5	72.4	122.2	2200.3	15382.0	18673.5	18850.1
70°	6.8	15.8	27.2	38.5	56.6	97.3	1306.2	12158.5	15536.0	15572.2
72.5°	4.5	11.3	18.1	27.2	45.3	88.3	633.8	7925.3	11343.5	11775.9
75°	2.3	6.8	11.3	20.4	36.2	72.4	303.3	5294.9	8253.6	8378.1
77.5°	0.0	2.3	6.8	13.6	27.2	56.6	176.6	3477.1	5627.6	5756.7
80°	0.0	0.0	4.5	11.3	20.4	36.2	106.4	2050.9	3409.2	3472.6
82.5°	0.0	0.0	2.3	9.1	13.6	27.2	54.3	901.0	2232.0	2254.7
85°	0.0	0.0	2.3	9.1	11.3	18.1	20.4	122.2	991.5	1009.6
87.5°	0.0	0.0	2.3	11.3	11.3	11.3	11.3	6.8	83.8	104.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)