

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: P456002

Luminaire Tested: **GALN-SA7B-727-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456002  
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-SA7B-727-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 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: 23804 lumens  
Efficiency: N/A  
Efficacy: 83.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

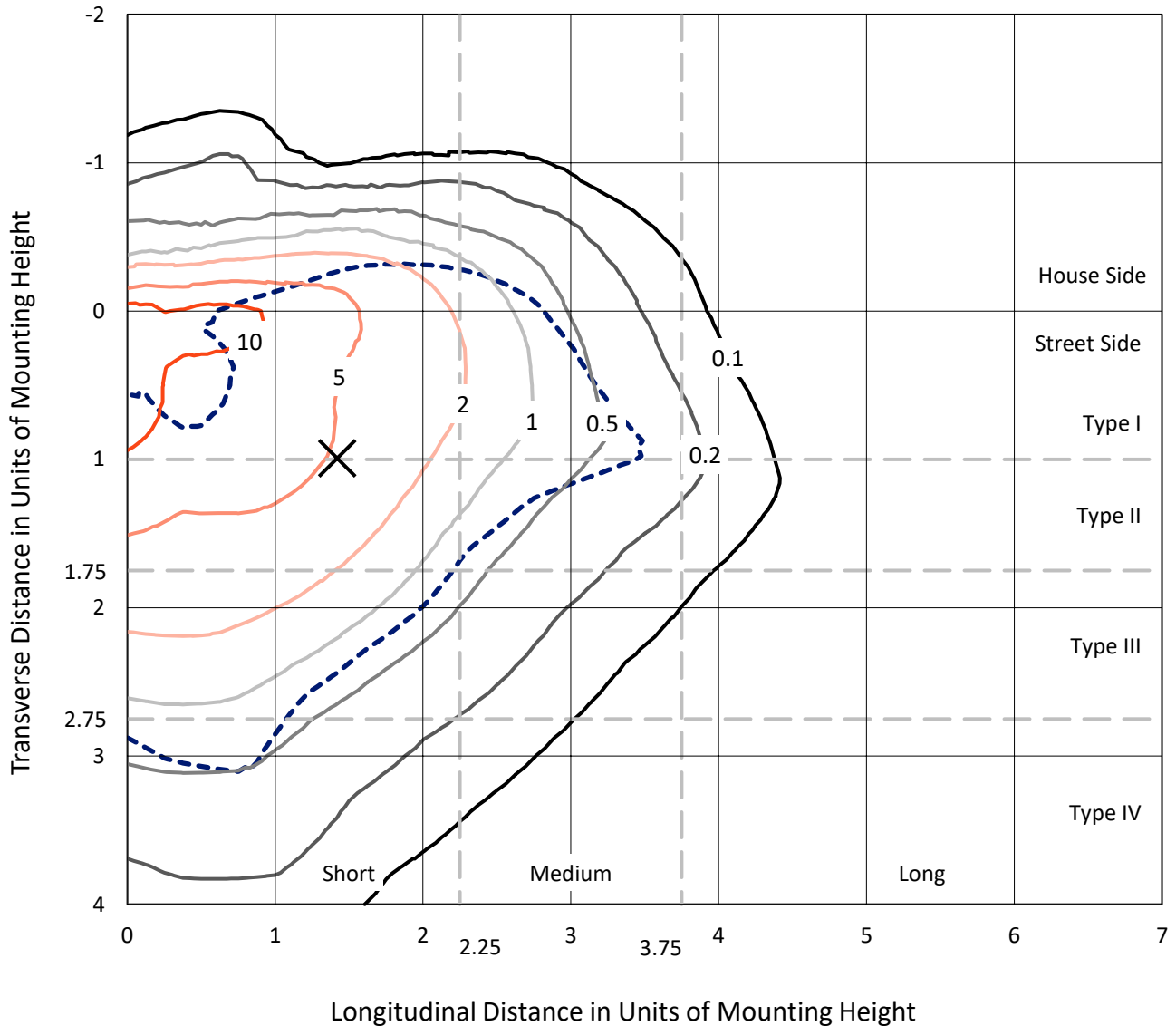
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

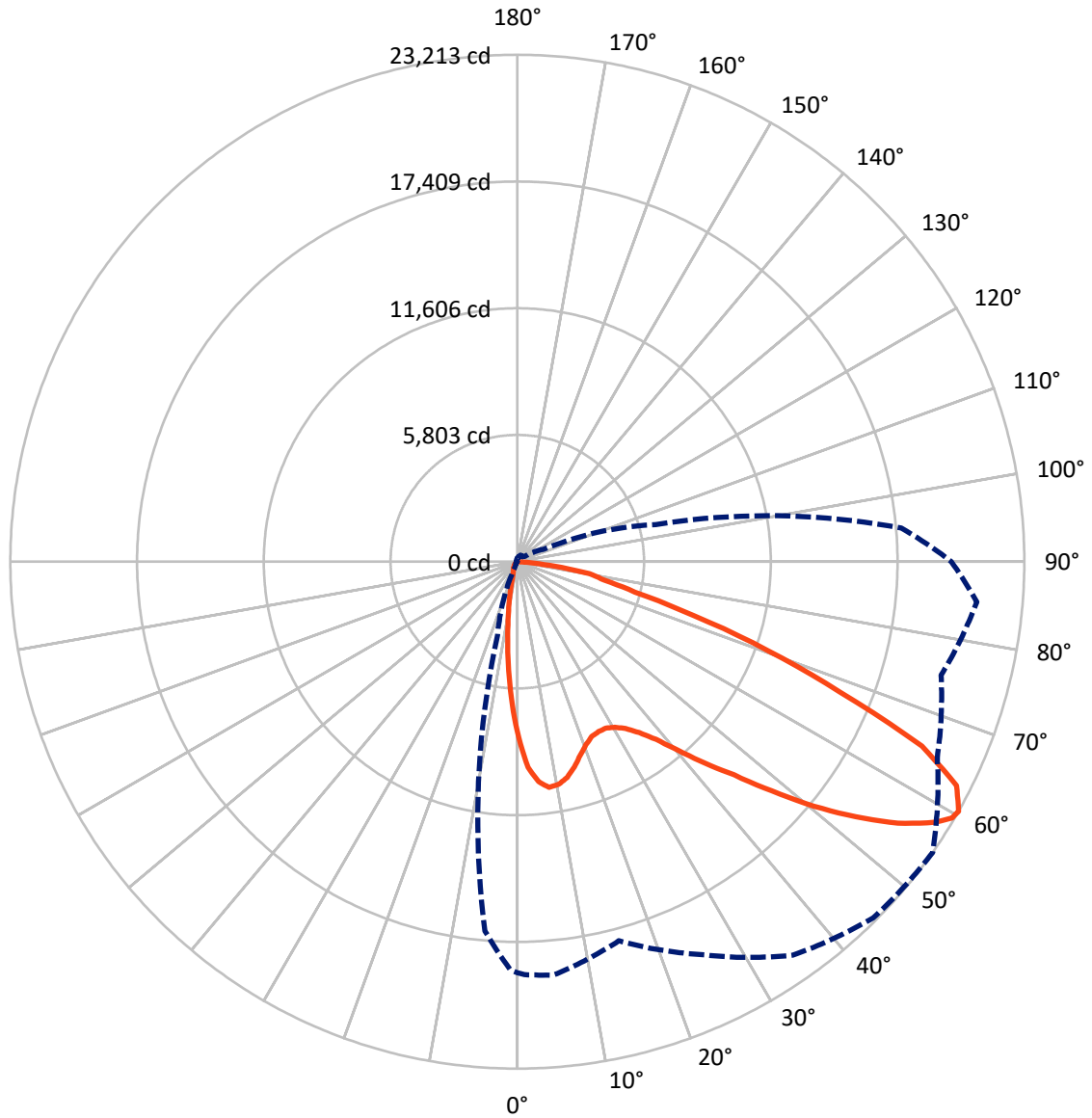
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 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	3532.7	0.0	3532.7
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	20271.3	0.0	20271.3
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	23804.0	0.0	23804.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	596.9	2.5
10°-20°	1175.3	4.9
20°-30°	1739.7	7.3
30°-40°	2593.2	10.9
40°-50°	3797.8	16.0
50°-60°	5482.9	23.0
60°-70°	5767.7	24.2
70°-80°	2372.6	10.0
80°-90°	277.9	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°	23804.0	100.0
0°-180°	23804.0	100.0

**Coefficient of Utilization**



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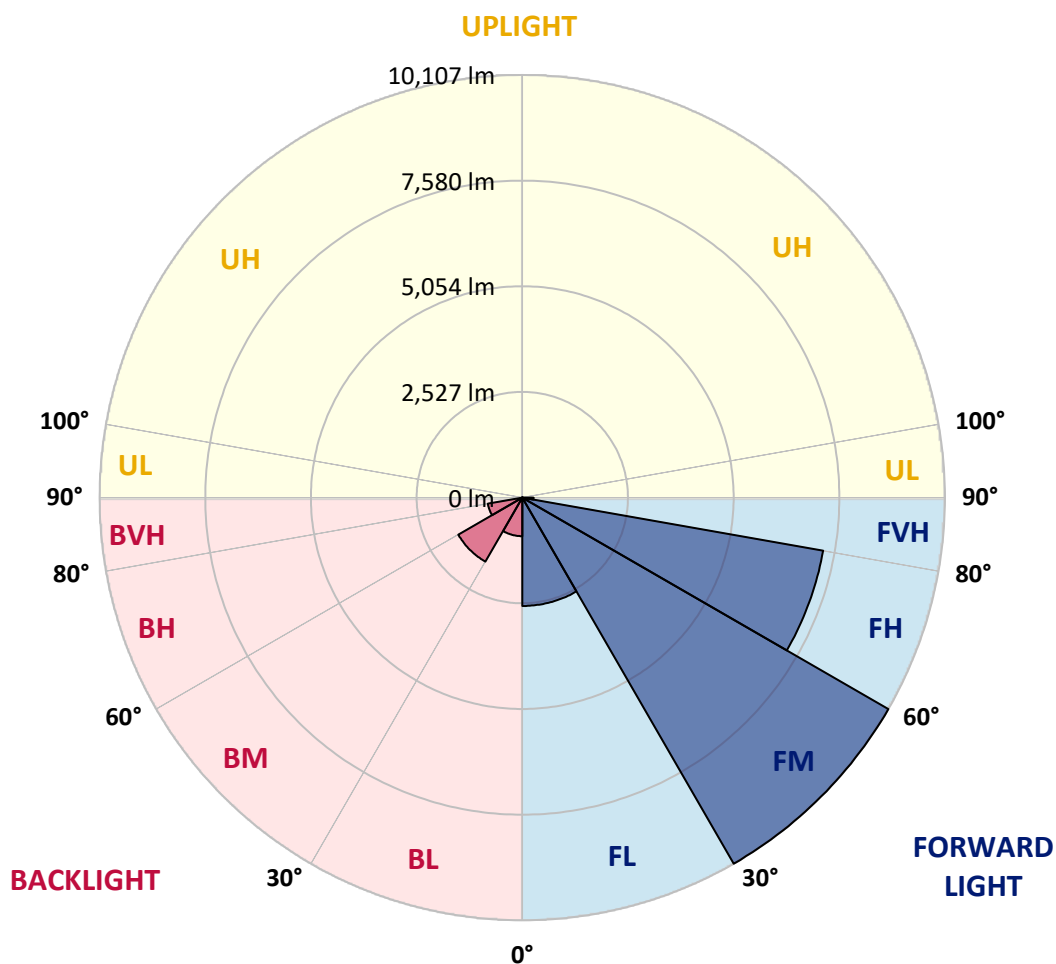
CATALOG NUMBER: GALN-SA7B-727-U-SLL-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2590.2	10.9			
FM	(30°-60°)	10107.2	42.5			
FH	(60°-80°)	7304.1	30.7			G3/7500
FVH	(80°-90°)	269.7	1.1			G3/500
BL	(0°-30°)	921.7	3.9	B2/1000		
BM	(30°-60°)	1766.7	7.4	B2/2500		
BH	(60°-80°)	836.2	3.5	B2/1000		G2/1000
BVH	(80°-90°)	8.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8060.0	8060.0	8060.0	8060.0	8060.0	8060.0	8060.0	8060.0	8060.0	8060.0	8060.0
2.5°	8805.7	8791.0	8921.1	9133.7	9348.0	9459.8	9437.8	9428.6	9250.9	9120.8	8847.8
5°	8787.4	8862.5	9095.2	9670.5	10106.6	10317.3	10379.6	10117.6	9771.3	9269.2	8649.9
7.5°	8261.5	8355.0	8734.2	9633.9	10408.9	10866.9	10850.5	10430.9	9716.3	8939.4	8056.3
10°	7609.2	7719.2	8164.4	9256.4	10262.3	10866.9	10899.9	10368.6	9479.9	8483.2	7554.3
12.5°	7149.4	7279.4	7772.3	8904.6	9884.9	10480.3	10518.8	10134.1	9302.2	8307.3	7281.3
15°	6993.6	7116.4	7616.6	8726.9	9483.6	9804.2	9795.1	9754.8	9232.6	8349.5	7295.9
17.5°	7261.1	7361.9	7926.2	8807.5	9108.0	9075.0	9122.7	9316.9	9247.3	8703.1	7757.7
20°	7951.9	8054.5	8660.9	9054.9	8820.3	8611.5	8633.5	8957.8	9382.8	9368.2	8479.5
22.5°	8902.8	9076.9	9626.5	9534.9	8781.9	8323.8	8278.0	8699.4	9613.7	10134.1	9454.3
25°	10106.6	10282.5	10711.2	10300.8	8970.6	8256.0	8213.9	8620.6	9894.0	10881.6	10551.8
27.5°	11118.0	11251.7	11678.6	11046.5	9249.1	8285.3	8215.7	8631.6	10121.2	11517.4	11477.1
30°	11927.8	12026.7	12277.8	11394.6	9489.1	8413.6	8333.0	8792.9	10222.0	11827.0	12226.5
32.5°	12580.1	12746.8	12825.6	11766.6	9833.6	8655.4	8518.0	9102.5	10467.5	12210.0	13012.5
35°	13325.8	13518.2	13417.4	12122.0	10288.0	9032.9	8864.3	9604.5	10839.5	12563.6	13924.9
37.5°	14271.2	14492.9	14099.0	12495.8	10768.0	9600.9	9522.1	10309.9	11403.8	13069.3	14903.3
40°	15249.6	15377.9	14760.4	12950.2	11358.0	10427.2	10502.3	11358.0	12142.2	13675.7	15944.0
42.5°	16013.7	16134.6	15440.2	13331.3	11960.8	11407.4	11720.8	12622.2	12988.7	14296.9	16720.9
45°	16598.1	16700.8	15911.1	13747.2	12774.3	12827.4	13419.2	13924.9	13837.0	14676.1	17320.0
47.5°	17052.5	17140.5	16273.8	14194.3	13992.7	14564.4	15469.5	15683.9	14716.5	15086.6	17862.4
50°	17239.4	17265.1	16387.4	14764.1	15376.1	16777.7	17721.3	17591.2	15724.2	15542.8	18439.5
52.5°	17483.1	17477.6	16711.7	15306.4	16676.9	18756.5	19698.3	19403.3	16863.8	16226.2	19088.1
55°	18122.6	18129.9	17406.2	16076.0	17785.4	20354.2	21361.9	21147.6	18065.8	17380.5	19844.9
57.5°	18899.4	18926.9	18393.7	16975.6	18844.5	21512.2	22604.2	22521.7	19690.9	18664.9	20559.4
59°	19000.2	19055.2	18860.9	17609.5	19472.9	21867.6	23029.3	23109.9	20561.3	19511.4	20946.0
60°	18817.0	18908.6	18996.5	17968.7	19841.2	21995.9	23054.9	23212.5	21215.4	20086.7	21121.9
62.5°	18018.1	18162.9	18604.4	19073.5	20301.1	21596.5	22235.9	22565.7	22025.2	21598.3	21138.4
65°	16971.9	17047.0	17684.7	19269.5	19408.8	19731.3	19929.1	20352.4	21052.3	22180.9	20381.7
67.5°	15257.0	15478.7	16259.2	18131.7	16775.9	16394.8	16345.3	15923.9	17741.5	20792.1	18516.5
70°	12603.9	12702.8	13664.8	14864.9	12660.7	12074.4	12308.9	12151.3	13752.7	17899.0	14903.3
72.5°	9531.2	9754.8	10694.7	11849.0	8615.1	7854.8	8501.5	8442.9	10330.1	14384.8	10238.5
75°	6781.1	6925.8	8124.1	9272.9	6033.5	5111.9	5344.6	5562.6	7211.6	11358.0	6050.0
77.5°	4659.4	4783.9	5683.6	6132.5	4401.0	4216.0	3856.8	4067.5	4725.3	6738.9	3292.5
80°	2810.6	2805.1	3396.9	3506.9	3065.3	3560.0	2986.5	3353.0	2856.4	2883.9	1275.2
82.5°	1824.9	1806.6	2077.7	2264.6	1705.8	1793.8	1203.8	1735.1	1861.5	804.3	403.1
85°	817.2	852.0	998.6	1317.4	747.5	397.6	245.5	533.2	793.4	404.9	0.0
87.5°	84.3	66.0	175.9	320.6	102.6	11.0	36.6	18.3	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°	8060.0	8060.0	8060.0	8060.0	8060.0	8060.0	8060.0	8060.0	8060.0	8060.0	8060.0
2.5°	8721.4	8615.1	8298.2	8001.3	7746.7	7435.2	7233.6	6916.7	6724.3	6665.6	6674.8
5°	8371.4	8065.5	7462.7	6980.8	6443.9	6138.0	5672.6	5225.5	4983.7	4893.9	4853.6
7.5°	7638.6	7310.6	6583.2	5826.5	5251.2	4714.3	4368.0	3974.1	3704.8	3483.1	3444.6
10°	7094.4	6663.8	5762.4	4948.8	4494.5	4091.4	3745.1	3351.1	3034.2	2781.3	2711.7
12.5°	6768.2	6286.4	5280.5	4598.9	4168.3	3754.2	3303.5	2847.3	2523.0	2250.0	2123.6
15°	6709.6	6150.8	5144.9	4347.9	3816.5	3316.3	2717.2	2224.3	1890.9	1632.5	1553.7
17.5°	7063.2	6394.5	5124.7	4085.9	3356.6	2647.6	2024.6	1616.0	1240.4	1095.7	1038.9
20°	7693.5	6825.0	5122.9	3781.7	2883.9	2039.3	1421.8	1053.5	901.5	831.8	798.9
22.5°	8552.8	7411.4	5220.0	3519.7	2392.9	1504.3	1015.1	839.2	751.2	694.4	681.6
25°	9602.7	8279.8	5458.2	3342.0	2017.3	1180.0	837.3	718.2	644.9	619.3	608.3
27.5°	10535.3	9111.7	5720.2	3158.8	1747.9	1044.4	776.9	657.8	599.1	579.0	562.5
30°	11339.7	9866.5	5846.6	2916.9	1531.7	956.4	787.9	703.6	626.6	566.2	538.7
32.5°	12010.3	10445.5	5929.1	2697.0	1348.5	782.4	623.0	544.2	509.4	487.4	469.1
35°	12849.4	11072.2	5879.6	2572.4	1255.1	712.7	568.0	469.1	410.4	366.4	348.1
37.5°	13728.9	11698.8	5793.5	2469.8	1212.9	661.4	540.5	445.2	381.1	335.3	311.5
40°	14639.5	12279.6	5692.7	2374.6	1174.5	628.5	524.0	425.1	360.9	311.5	285.8
42.5°	15473.2	12845.7	5652.4	2312.3	1112.2	634.0	511.2	415.9	340.8	289.5	267.5
45°	16147.4	13382.6	5707.4	2279.3	1044.4	624.8	514.9	404.9	324.3	274.8	252.8
47.5°	16867.5	14141.1	5885.1	2246.3	978.4	580.8	542.3	403.1	317.0	265.7	241.9
50°	17704.8	15112.2	6291.9	2165.7	897.8	533.2	577.2	401.3	307.8	254.7	230.9
52.5°	18820.6	16215.2	6711.4	2024.6	780.5	487.4	551.5	395.8	289.5	241.9	218.0
55°	19822.9	17376.8	7066.9	1857.9	632.1	421.4	496.5	371.9	258.3	219.9	197.9
57.5°	20237.0	18032.8	7055.9	1627.0	505.7	370.1	408.6	340.8	225.4	194.2	175.9
59°	20084.9	17950.3	6819.6	1456.6	461.7	342.6	339.0	337.1	210.7	175.9	161.2
60°	19870.5	17649.8	6564.9	1372.3	434.2	324.3	311.5	333.5	197.9	164.9	150.2
62.5°	19049.7	16403.9	5720.2	1229.4	397.6	274.8	249.2	282.2	175.9	142.9	130.1
65°	17860.6	14489.3	4842.6	1189.1	386.6	227.2	207.0	201.5	150.2	120.9	109.9
67.5°	15541.0	12261.3	3922.8	1161.6	390.3	190.6	181.4	152.1	124.6	100.8	93.4
70°	12442.7	9560.6	3211.9	1130.5	393.9	155.7	152.1	120.9	100.8	84.3	77.0
72.5°	7559.8	5667.1	2528.5	982.1	382.9	124.6	135.6	91.6	73.3	60.5	56.8
75°	4674.0	3878.8	1568.4	764.0	252.8	91.6	95.3	56.8	49.5	38.5	38.5
77.5°	2708.0	2449.7	560.7	274.8	111.8	55.0	42.1	29.3	27.5	16.5	16.5
80°	1123.2	899.6	194.2	93.4	60.5	25.7	9.2	1.8	0.0	0.0	0.0
82.5°	328.0	291.3	53.1	42.1	18.3	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°	8060.0	8060.0	8060.0	8060.0	8060.0	8060.0	8060.0	8060.0	8060.0	8060.0	8060.0
2.5°	6519.1	6458.6	6431.1	6524.6	6438.4	6548.4	6464.1	6500.7	6608.8	6656.5	6779.2
5°	4879.2	4816.9	4787.6	4928.7	4921.4	4991.0	4983.7	5047.8	5102.8	4980.0	5106.4
7.5°	3398.8	3356.6	3426.3	3536.2	3653.5	3615.0	3615.0	3528.9	3558.2	3539.9	3534.4
10°	2585.3	2440.5	2403.9	2400.2	2444.2	2453.4	2403.9	2284.8	2328.8	2341.6	2418.5
12.5°	2033.8	1922.0	1751.6	1674.7	1654.5	1671.0	1507.9	1403.5	1453.0	1423.6	1498.8
15°	1458.5	1366.8	1266.1	1180.0	1156.1	1123.2	945.4	820.8	806.2	811.7	824.5
17.5°	1040.7	978.4	978.4	886.8	837.3	738.4	648.6	593.6	588.1	593.6	602.8
20°	767.7	734.7	731.1	707.2	652.3	586.3	524.0	513.0	509.4	518.5	522.2
22.5°	661.4	626.6	597.3	595.5	544.2	489.2	459.9	445.2	447.1	450.7	459.9
25°	591.8	555.2	524.0	505.7	469.1	430.6	403.1	395.8	395.8	401.3	403.1
27.5°	542.3	496.5	469.1	443.4	410.4	377.4	353.6	348.1	344.5	348.1	357.3
30°	507.5	461.7	426.9	388.4	362.8	331.6	311.5	304.1	302.3	304.1	311.5
32.5°	434.2	406.8	379.3	344.5	313.3	293.2	271.2	258.3	258.3	262.0	269.3
35°	328.0	313.3	311.5	302.3	276.7	254.7	229.0	216.2	216.2	223.5	227.2
37.5°	289.5	262.0	258.3	254.7	243.7	214.4	190.6	179.6	177.7	183.2	190.6
40°	263.8	232.7	216.2	212.5	214.4	181.4	155.7	144.7	144.7	146.6	153.9
42.5°	243.7	207.0	177.7	174.1	181.4	152.1	126.4	115.4	115.4	115.4	124.6
45°	227.2	185.1	150.2	131.9	142.9	124.6	102.6	91.6	87.9	91.6	95.3
47.5°	216.2	168.6	131.9	106.3	106.3	98.9	82.5	69.6	66.0	67.8	73.3
50°	207.0	153.9	111.8	86.1	77.0	78.8	62.3	53.1	49.5	49.5	55.0
52.5°	192.4	139.2	97.1	73.3	58.6	53.1	45.8	38.5	36.6	38.5	42.1
55°	174.1	126.4	84.3	60.5	45.8	36.6	33.0	27.5	25.7	27.5	33.0
57.5°	153.9	106.3	67.8	47.6	31.1	23.8	22.0	18.3	14.7	16.5	20.2
59°	141.1	95.3	58.6	38.5	23.8	16.5	16.5	12.8	9.2	11.0	16.5
60°	135.6	87.9	49.5	33.0	20.2	12.8	12.8	9.2	5.5	7.3	12.8
62.5°	115.4	73.3	38.5	20.2	9.2	1.8	5.5	1.8	0.0	1.8	5.5
65°	97.1	58.6	25.7	9.2	0.0	0.0	0.0	0.0	0.0	0.0	1.8
67.5°	80.6	44.0	12.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	64.1	29.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	44.0	16.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	27.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	11.0	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: P456002  
 CATALOG NUMBER: GALN-SA7B-727-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8060.0	8060.0	8060.0	8060.0	8060.0	8060.0	8060.0	8060.0	8060.0	8060.0
2.5°	6786.6	7048.6	7209.8	7514.0	7825.4	8065.5	8366.0	8635.3	8747.1	8805.7
5°	5234.7	5599.3	5908.9	6372.5	6803.1	7327.1	7858.4	8485.0	8725.1	8787.4
7.5°	3673.6	4045.6	4369.9	4906.7	5520.5	6222.2	7017.4	7812.6	8162.6	8261.5
10°	2653.1	3050.7	3446.4	3983.3	4556.7	5317.1	6145.3	7129.2	7532.3	7609.2
12.5°	1674.7	2101.6	2744.7	3407.9	4014.4	4626.4	5493.0	6563.0	7008.3	7149.4
15°	971.1	1289.9	1775.4	2640.2	3411.6	4221.5	5166.9	6350.5	6848.9	6993.6
17.5°	650.4	760.4	1093.8	1755.3	2774.0	3847.7	5084.4	6524.6	7076.1	7261.1
20°	547.8	597.3	714.6	1070.0	2136.4	3514.2	5106.4	6997.3	7721.0	7951.9
22.5°	481.9	527.7	602.8	769.5	1491.4	3100.1	5210.9	7673.4	8607.8	8902.8
25°	425.1	470.9	536.8	637.6	1002.2	2621.9	5439.9	8662.8	9782.3	10106.6
27.5°	377.4	419.6	476.4	562.5	771.4	2088.7	5643.3	9626.5	10854.1	11118.0
30°	333.5	368.3	423.2	489.2	641.3	1610.5	5745.9	10469.3	11634.6	11927.8
32.5°	289.5	322.5	375.6	428.7	527.7	1227.6	5674.4	11088.6	12393.2	12580.1
35°	247.4	282.2	326.1	375.6	456.2	991.2	5317.1	11784.9	13179.2	13325.8
37.5°	212.5	241.9	287.7	326.1	412.3	793.4	4884.7	12411.5	14060.5	14271.2
40°	179.6	208.9	254.7	289.5	379.3	624.8	4494.5	13107.8	14989.5	15249.6
42.5°	146.6	181.4	221.7	278.5	326.1	476.4	4021.7	13672.1	15687.5	16013.7
45°	117.3	155.7	199.7	276.7	284.0	362.8	3565.5	14111.8	16305.0	16598.1
47.5°	93.4	131.9	192.4	258.3	232.7	287.7	3305.3	14571.7	16818.0	17052.5
50°	75.1	109.9	201.5	227.2	194.2	243.7	3298.0	15084.7	17083.7	17239.4
52.5°	60.5	89.8	170.4	174.1	164.9	214.4	3495.9	15661.9	17354.9	17483.1
55°	51.3	75.1	111.8	128.3	148.4	194.2	3644.3	16550.5	18001.6	18122.6
57.5°	40.3	64.1	86.1	102.6	131.9	177.7	3664.5	17235.8	18820.6	18899.4
59°	34.8	55.0	77.0	91.6	120.9	166.7	3582.0	17277.9	18873.8	19000.2
60°	29.3	49.5	67.8	86.1	111.8	157.6	3492.2	16971.9	18675.9	18817.0
62.5°	22.0	38.5	49.5	69.6	91.6	135.6	3067.1	15903.7	17919.2	18018.1
65°	14.7	27.5	36.6	51.3	71.5	117.3	2499.2	14518.6	16750.2	16971.9
67.5°	9.2	20.2	29.3	38.5	58.6	98.9	1780.9	12450.0	15114.0	15257.0
70°	5.5	12.8	22.0	31.1	45.8	78.8	1057.2	9840.9	12574.6	12603.9
72.5°	3.7	9.2	14.7	22.0	36.6	71.5	513.0	6414.6	9181.3	9531.2
75°	1.8	5.5	9.2	16.5	29.3	58.6	245.5	4285.6	6680.3	6781.1
77.5°	0.0	1.8	5.5	11.0	22.0	45.8	142.9	2814.3	4554.9	4659.4
80°	0.0	0.0	3.7	9.2	16.5	29.3	86.1	1660.0	2759.3	2810.6
82.5°	0.0	0.0	1.8	7.3	11.0	22.0	44.0	729.2	1806.6	1824.9
85°	0.0	0.0	1.8	7.3	9.2	14.7	16.5	98.9	802.5	817.2
87.5°	0.0	0.0	1.8	9.2	9.2	9.2	9.2	5.5	67.8	84.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)