

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: P453450

Luminaire Tested: **GALN-SA4C-727-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453450  
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-SA4C-727-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 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: 16704 lumens  
Efficiency: N/A  
Efficacy: 78.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

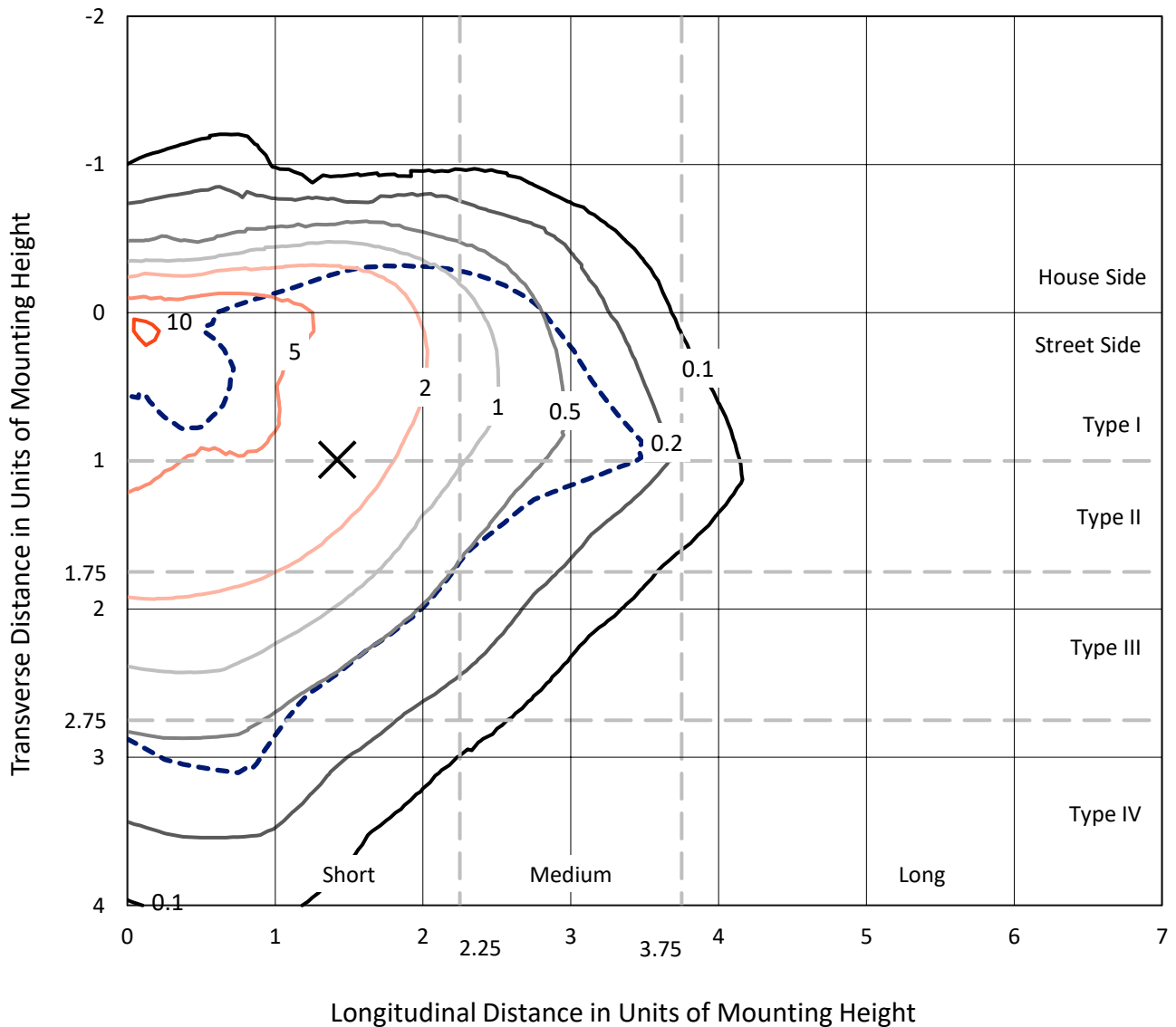
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

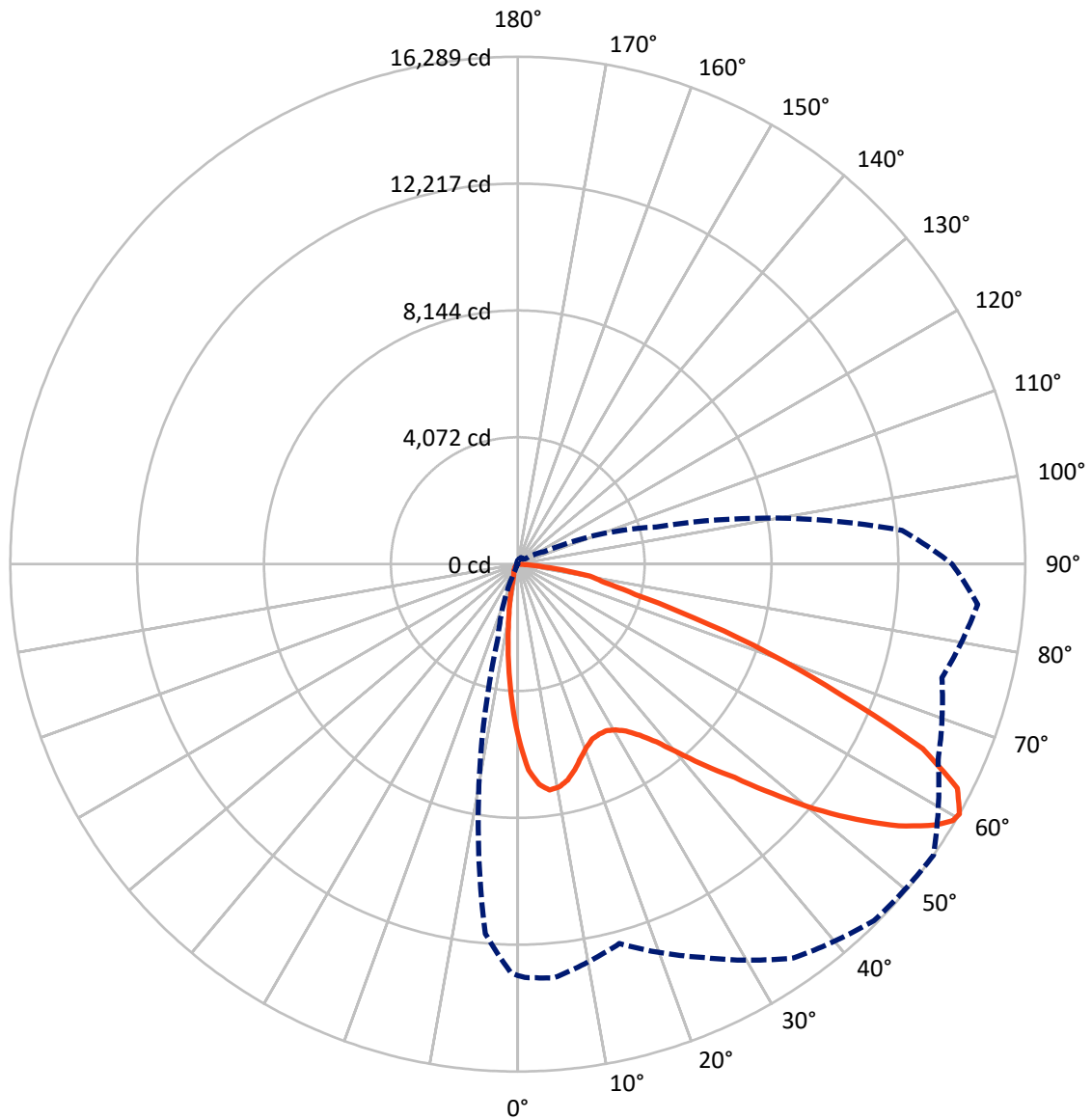
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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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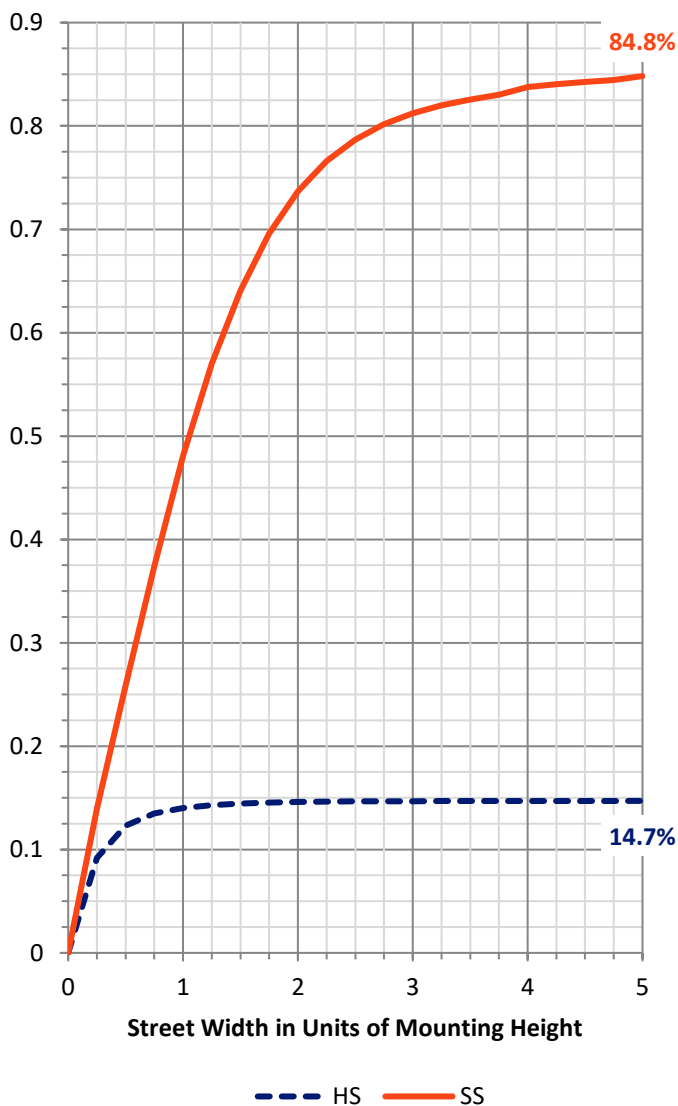
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2479.0	0.0	2479.0
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	14225.0	0.0	14225.0
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	16704.0	0.0	16704.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	418.8	2.5
10°-20°	824.8	4.9
20°-30°	1220.8	7.3
30°-40°	1819.7	10.9
40°-50°	2665.0	16.0
50°-60°	3847.5	23.0
60°-70°	4047.4	24.2
70°-80°	1664.9	10.0
80°-90°	195.0	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°	16704.0	100.0
0°-180°	16704.0	100.0

**Coefficient of Utilization**



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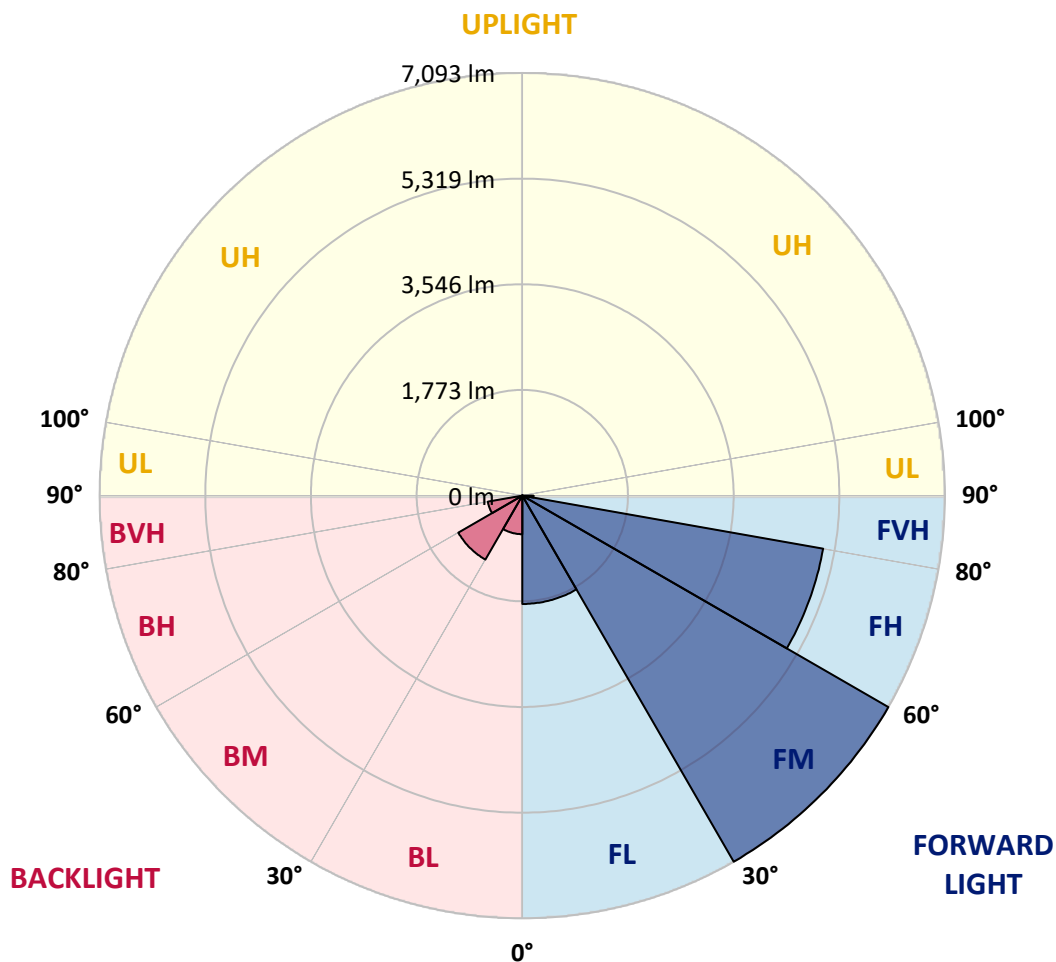
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1817.6	10.9			
FM	(30°-60°)	7092.5	42.5			
FH	(60°-80°)	5125.5	30.7			G3/7500
FVH	(80°-90°)	189.3	1.1			G2/225
BL	(0°-30°)	646.8	3.9	B2/1000		
BM	(30°-60°)	1239.7	7.4	B2/2500		
BH	(60°-80°)	586.8	3.5	B2/1000		G2/1000
BVH	(80°-90°)	5.7	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°	5655.9	5655.9	5655.9	5655.9	5655.9	5655.9	5655.9	5655.9	5655.9	5655.9	5655.9
2.5°	6179.2	6168.9	6260.2	6409.4	6559.8	6638.2	6622.8	6616.4	6491.7	6400.4	6208.8
5°	6166.4	6219.1	6382.4	6786.1	7092.1	7239.9	7283.7	7099.8	6856.8	6504.5	6069.9
7.5°	5797.4	5862.9	6129.1	6760.4	7304.2	7625.7	7614.1	7319.7	6818.2	6273.1	5653.4
10°	5339.6	5416.8	5729.2	6495.5	7201.4	7625.7	7648.8	7275.9	6652.4	5952.9	5301.1
12.5°	5016.9	5108.2	5454.1	6248.6	6936.5	7354.4	7381.4	7111.4	6527.7	5829.5	5109.5
15°	4907.6	4993.8	5344.8	6123.9	6654.9	6879.9	6873.5	6845.2	6478.8	5859.1	5119.8
17.5°	5095.3	5166.1	5562.1	6180.5	6391.4	6368.2	6401.7	6537.9	6489.1	6107.2	5443.8
20°	5580.1	5652.1	6077.6	6354.1	6189.5	6042.9	6058.4	6285.9	6584.2	6573.9	5950.4
22.5°	6247.4	6369.5	6755.2	6690.9	6162.5	5841.1	5808.9	6104.6	6746.2	7111.4	6634.4
25°	7092.1	7215.5	7516.4	7228.4	6294.9	5793.5	5763.9	6049.4	6942.9	7636.0	7404.5
27.5°	7801.8	7895.7	8195.2	7751.7	6490.4	5814.1	5765.2	6057.1	7102.4	8082.1	8053.8
30°	8370.1	8439.5	8615.7	7996.0	6658.8	5904.1	5847.5	6170.2	7173.1	8299.4	8579.7
32.5°	8827.8	8944.8	9000.1	8257.0	6900.5	6073.8	5977.4	6387.5	7345.4	8568.1	9131.3
35°	9351.1	9486.1	9415.4	8506.4	7219.4	6338.7	6220.4	6739.8	7606.4	8816.3	9771.6
37.5°	10014.6	10170.1	9893.7	8768.7	7556.2	6737.2	6681.9	7234.8	8002.4	9171.1	10458.1
40°	10701.1	10791.1	10357.8	9087.5	7970.2	7317.1	7369.8	7970.2	8520.5	9596.7	11188.4
42.5°	11237.3	11322.1	10834.9	9355.0	8393.2	8005.0	8224.8	8857.4	9114.5	10032.6	11733.6
45°	11647.4	11719.4	11165.3	9646.8	8964.1	9001.4	9416.7	9771.6	9709.8	10298.7	12154.0
47.5°	11966.3	12028.0	11419.9	9960.6	9819.1	10220.3	10855.4	11005.9	10327.0	10586.7	12534.6
50°	12097.4	12115.4	11499.6	10360.4	10789.8	11773.4	12435.6	12344.3	11034.1	10906.9	12939.6
52.5°	12268.4	12264.6	11727.1	10741.0	11702.7	13162.0	13822.9	13615.9	11833.9	11386.4	13394.7
55°	12717.2	12722.3	12214.4	11281.0	12480.6	14283.2	14990.3	14839.9	12677.3	12196.4	13925.7
57.5°	13262.3	13281.6	12907.4	11912.3	13223.7	15095.8	15862.1	15804.2	13817.7	13097.7	14427.2
59°	13333.0	13371.6	13235.3	12357.2	13664.7	15345.2	16160.3	16216.9	14428.5	13691.7	14698.5
60°	13204.5	13268.7	13330.5	12609.2	13923.2	15435.2	16178.3	16288.9	14887.5	14095.5	14821.9
62.5°	12643.9	12745.4	13055.3	13384.5	14245.9	15154.9	15603.6	15835.1	15455.8	15156.2	14833.5
65°	11909.7	11962.4	12409.9	13522.0	13619.7	13846.0	13984.9	14281.9	14773.0	15565.1	14302.5
67.5°	10706.3	10861.9	11409.6	12723.6	11772.1	11504.7	11470.0	11174.3	12449.7	14590.5	12993.6
70°	8844.5	8914.0	9589.0	10431.1	8884.4	8473.0	8637.5	8527.0	9650.7	12560.3	10458.1
72.5°	6688.4	6845.2	7504.8	8314.8	6045.5	5511.9	5965.8	5924.6	7248.9	10094.3	7184.7
75°	4758.5	4860.1	5700.9	6507.1	4233.9	3587.2	3750.5	3903.5	5060.6	7970.2	4245.5
77.5°	3269.6	3357.0	3988.3	4303.3	3088.3	2958.5	2706.5	2854.3	3315.9	4728.9	2310.5
80°	1972.3	1968.5	2383.7	2460.9	2151.0	2498.2	2095.7	2352.9	2004.5	2023.7	894.9
82.5°	1280.6	1267.7	1458.0	1589.2	1197.0	1258.7	844.7	1217.6	1306.3	564.4	282.9
85°	573.4	597.9	700.7	924.4	524.6	279.0	172.3	374.1	556.7	284.1	0.0
87.5°	59.1	46.3	123.4	225.0	72.0	7.7	25.7	12.9	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°	5655.9	5655.9	5655.9	5655.9	5655.9	5655.9	5655.9	5655.9	5655.9	5655.9	5655.9
2.5°	6120.1	6045.5	5823.1	5614.8	5436.1	5217.5	5076.1	4853.6	4718.6	4677.5	4683.9
5°	5874.5	5659.8	5236.8	4898.6	4521.9	4307.2	3980.6	3666.9	3497.2	3434.2	3405.9
7.5°	5360.2	5130.1	4619.6	4088.6	3684.9	3308.2	3065.2	2788.7	2599.7	2444.2	2417.2
10°	4978.3	4676.2	4043.6	3472.8	3153.9	2871.0	2628.0	2351.6	2129.2	1951.7	1902.9
12.5°	4749.5	4411.3	3705.5	3227.2	2925.0	2634.5	2318.2	1998.0	1770.5	1578.9	1490.2
15°	4708.3	4316.2	3610.3	3051.0	2678.2	2327.2	1906.7	1560.9	1326.9	1145.6	1090.3
17.5°	4956.5	4487.2	3596.2	2867.2	2355.5	1857.9	1420.7	1134.0	870.4	768.9	729.0
20°	5398.8	4789.3	3594.9	2653.7	2023.7	1431.0	997.7	739.3	632.6	583.7	560.6
22.5°	6001.8	5200.8	3663.0	2469.9	1679.2	1055.6	712.3	588.9	527.1	487.3	478.3
25°	6738.5	5810.2	3830.2	2345.2	1415.6	828.0	587.6	504.0	452.6	434.6	426.9
27.5°	7393.0	6393.9	4014.1	2216.6	1226.6	732.9	545.1	461.6	420.4	406.3	394.7
30°	7957.4	6923.7	4102.8	2046.9	1074.9	671.2	552.9	493.7	439.7	397.3	378.0
32.5°	8428.0	7329.9	4160.6	1892.6	946.3	549.0	437.1	381.9	357.4	342.0	329.1
35°	9016.8	7769.7	4125.9	1805.2	880.7	500.1	398.6	329.1	288.0	257.1	244.3
37.5°	9634.0	8209.4	4065.5	1733.2	851.2	464.1	379.3	312.4	267.4	235.3	218.6
40°	10273.0	8617.0	3994.8	1666.3	824.2	441.0	367.7	298.3	253.3	218.6	200.6
42.5°	10858.0	9014.3	3966.5	1622.6	780.4	444.9	358.7	291.9	239.1	203.1	187.7
45°	11331.1	9391.0	4005.1	1599.4	732.9	438.4	361.3	284.1	227.6	192.9	177.4
47.5°	11836.4	9923.3	4129.8	1576.3	686.6	407.6	380.6	282.9	222.4	186.4	169.7
50°	12424.0	10604.7	4415.2	1519.7	630.0	374.1	405.0	281.6	216.0	178.7	162.0
52.5°	13207.0	11378.7	4709.6	1420.7	547.7	342.0	387.0	277.7	203.1	169.7	153.0
55°	13910.3	12193.9	4959.1	1303.7	443.6	295.7	348.4	261.0	181.3	154.3	138.9
57.5°	14200.9	12654.2	4951.3	1141.7	354.9	259.7	286.7	239.1	158.1	136.3	123.4
59°	14094.2	12596.3	4785.5	1022.2	324.0	240.4	237.9	236.6	147.9	123.4	113.1
60°	13943.7	12385.4	4606.8	963.0	304.7	227.6	218.6	234.0	138.9	115.7	105.4
62.5°	13367.7	11511.1	4014.1	862.7	279.0	192.9	174.9	198.0	123.4	100.3	91.3
65°	12533.3	10167.6	3398.2	834.4	271.3	159.4	145.3	141.4	105.4	84.9	77.1
67.5°	10905.6	8604.1	2752.7	815.2	273.9	133.7	127.3	106.7	87.4	70.7	65.6
70°	8731.4	6708.9	2253.9	793.3	276.4	109.3	106.7	84.9	70.7	59.1	54.0
72.5°	5304.9	3976.8	1774.3	689.2	268.7	87.4	95.1	64.3	51.4	42.4	39.9
75°	3279.9	2721.9	1100.6	536.1	177.4	64.3	66.9	39.9	34.7	27.0	27.0
77.5°	1900.3	1719.0	393.4	192.9	78.4	38.6	29.6	20.6	19.3	11.6	11.6
80°	788.2	631.3	136.3	65.6	42.4	18.0	6.4	1.3	0.0	0.0	0.0
82.5°	230.1	204.4	37.3	29.6	12.9	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°	5655.9	5655.9	5655.9	5655.9	5655.9	5655.9	5655.9	5655.9	5655.9	5655.9	5655.9
2.5°	4574.6	4532.2	4512.9	4578.5	4518.1	4595.2	4536.1	4561.8	4637.6	4671.1	4757.2
5°	3423.9	3380.2	3359.6	3458.6	3453.5	3502.3	3497.2	3542.2	3580.8	3494.6	3583.3
7.5°	2385.0	2355.5	2404.3	2481.5	2563.7	2536.7	2536.7	2476.3	2496.9	2484.0	2480.2
10°	1814.2	1712.6	1686.9	1684.3	1715.2	1721.6	1686.9	1603.3	1634.2	1643.2	1697.2
12.5°	1427.2	1348.7	1229.2	1175.2	1161.0	1172.6	1058.2	984.9	1019.6	999.0	1051.7
15°	1023.4	959.2	888.4	828.0	811.3	788.2	663.4	576.0	565.7	569.6	578.6
17.5°	730.3	686.6	686.6	622.3	587.6	518.1	455.1	416.6	412.7	416.6	423.0
20°	538.7	515.6	513.0	496.3	457.7	411.4	367.7	360.0	357.4	363.9	366.4
22.5°	464.1	439.7	419.1	417.9	381.9	343.3	322.7	312.4	313.7	316.3	322.7
25°	415.3	389.6	367.7	354.9	329.1	302.1	282.9	277.7	277.7	281.6	282.9
27.5°	380.6	348.4	329.1	311.1	288.0	264.9	248.1	244.3	241.7	244.3	250.7
30°	356.1	324.0	299.6	272.6	254.6	232.7	218.6	213.4	212.1	213.4	218.6
32.5°	304.7	285.4	266.1	241.7	219.9	205.7	190.3	181.3	181.3	183.9	189.0
35°	230.1	219.9	218.6	212.1	194.1	178.7	160.7	151.7	151.7	156.9	159.4
37.5°	203.1	183.9	181.3	178.7	171.0	150.4	133.7	126.0	124.7	128.6	133.7
40°	185.1	163.3	151.7	149.1	150.4	127.3	109.3	101.6	101.6	102.9	108.0
42.5°	171.0	145.3	124.7	122.1	127.3	106.7	88.7	81.0	81.0	81.0	87.4
45°	159.4	129.9	105.4	92.6	100.3	87.4	72.0	64.3	61.7	64.3	66.9
47.5°	151.7	118.3	92.6	74.6	74.6	69.4	57.9	48.9	46.3	47.6	51.4
50°	145.3	108.0	78.4	60.4	54.0	55.3	43.7	37.3	34.7	34.7	38.6
52.5°	135.0	97.7	68.1	51.4	41.1	37.3	32.1	27.0	25.7	27.0	29.6
55°	122.1	88.7	59.1	42.4	32.1	25.7	23.1	19.3	18.0	19.3	23.1
57.5°	108.0	74.6	47.6	33.4	21.9	16.7	15.4	12.9	10.3	11.6	14.1
59°	99.0	66.9	41.1	27.0	16.7	11.6	11.6	9.0	6.4	7.7	11.6
60°	95.1	61.7	34.7	23.1	14.1	9.0	9.0	6.4	3.9	5.1	9.0
62.5°	81.0	51.4	27.0	14.1	6.4	1.3	3.9	1.3	0.0	1.3	3.9
65°	68.1	41.1	18.0	6.4	0.0	0.0	0.0	0.0	0.0	0.0	1.3
67.5°	56.6	30.9	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	45.0	20.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	30.9	11.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	19.3	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	7.7	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: P453450  
 CATALOG NUMBER: GALN-SA4C-727-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5655.9	5655.9	5655.9	5655.9	5655.9	5655.9	5655.9	5655.9	5655.9	5655.9
2.5°	4762.3	4946.2	5059.3	5272.8	5491.4	5659.8	5870.6	6059.6	6138.1	6179.2
5°	3673.3	3929.2	4146.5	4471.8	4773.9	5141.6	5514.5	5954.2	6122.6	6166.4
7.5°	2577.9	2838.9	3066.5	3443.2	3873.9	4366.3	4924.3	5482.4	5727.9	5797.4
10°	1861.7	2140.7	2418.5	2795.2	3197.6	3731.2	4312.3	5002.8	5285.6	5339.6
12.5°	1175.2	1474.7	1926.0	2391.5	2817.0	3246.5	3854.6	4605.5	4917.9	5016.9
15°	681.4	905.2	1245.9	1852.7	2394.0	2962.3	3625.8	4456.3	4806.1	4907.6
17.5°	456.4	533.6	767.6	1231.7	1946.6	2700.0	3567.9	4578.5	4965.5	5095.3
20°	384.4	419.1	501.4	750.9	1499.2	2466.0	3583.3	4910.2	5418.1	5580.1
22.5°	338.1	370.3	423.0	540.0	1046.6	2175.5	3656.6	5384.6	6040.4	6247.4
25°	298.3	330.4	376.7	447.4	703.3	1839.9	3817.3	6078.9	6864.5	7092.1
27.5°	264.9	294.4	334.3	394.7	541.3	1465.7	3960.0	6755.2	7616.7	7801.8
30°	234.0	258.4	297.0	343.3	450.0	1130.2	4032.1	7346.7	8164.4	8370.1
32.5°	203.1	226.3	263.6	300.9	370.3	861.4	3981.9	7781.2	8696.7	8827.8
35°	173.6	198.0	228.9	263.6	320.1	695.6	3731.2	8269.8	9248.3	9351.1
37.5°	149.1	169.7	201.9	228.9	289.3	556.7	3427.8	8709.5	9866.7	10014.6
40°	126.0	146.6	178.7	203.1	266.1	438.4	3153.9	9198.1	10518.6	10701.1
42.5°	102.9	127.3	155.6	195.4	228.9	334.3	2822.2	9594.1	11008.4	11237.3
45°	82.3	109.3	140.1	194.1	199.3	254.6	2502.0	9902.7	11441.7	11647.4
47.5°	65.6	92.6	135.0	181.3	163.3	201.9	2319.5	10225.4	11801.7	11966.3
50°	52.7	77.1	141.4	159.4	136.3	171.0	2314.3	10585.4	11988.2	12097.4
52.5°	42.4	63.0	119.6	122.1	115.7	150.4	2453.2	10990.4	12178.4	12268.4
55°	36.0	52.7	78.4	90.0	104.1	136.3	2557.3	11614.0	12632.3	12717.2
57.5°	28.3	45.0	60.4	72.0	92.6	124.7	2571.5	12094.9	13207.0	13262.3
59°	24.4	38.6	54.0	64.3	84.9	117.0	2513.6	12124.4	13244.3	13333.0
60°	20.6	34.7	47.6	60.4	78.4	110.6	2450.6	11909.7	13105.5	13204.5
62.5°	15.4	27.0	34.7	48.9	64.3	95.1	2152.3	11160.1	12574.4	12643.9
65°	10.3	19.3	25.7	36.0	50.1	82.3	1753.7	10188.1	11754.1	11909.7
67.5°	6.4	14.1	20.6	27.0	41.1	69.4	1249.7	8736.5	10606.0	10706.3
70°	3.9	9.0	15.4	21.9	32.1	55.3	741.9	6905.7	8824.0	8844.5
72.5°	2.6	6.4	10.3	15.4	25.7	50.1	360.0	4501.3	6442.8	6688.4
75°	1.3	3.9	6.4	11.6	20.6	41.1	172.3	3007.3	4687.8	4758.5
77.5°	0.0	1.3	3.9	7.7	15.4	32.1	100.3	1974.9	3196.3	3269.6
80°	0.0	0.0	2.6	6.4	11.6	20.6	60.4	1164.9	1936.3	1972.3
82.5°	0.0	0.0	1.3	5.1	7.7	15.4	30.9	511.7	1267.7	1280.6
85°	0.0	0.0	1.3	5.1	6.4	10.3	11.6	69.4	563.1	573.4
87.5°	0.0	0.0	1.3	6.4	6.4	6.4	6.4	3.9	47.6	59.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)