

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: P454378

Luminaire Tested: **GALN-SA5C-727-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454378
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-SA5C-727-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 21146 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

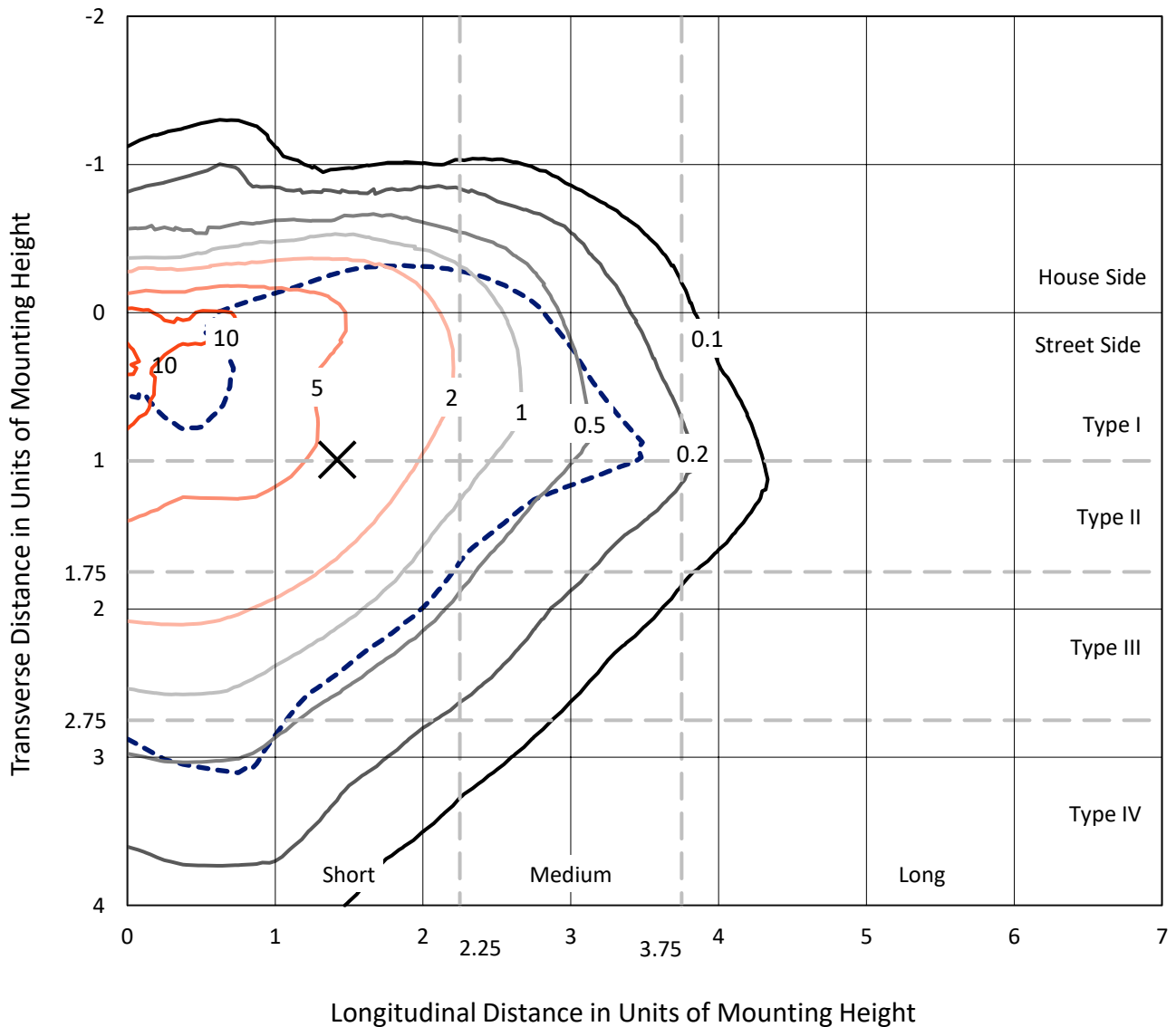
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

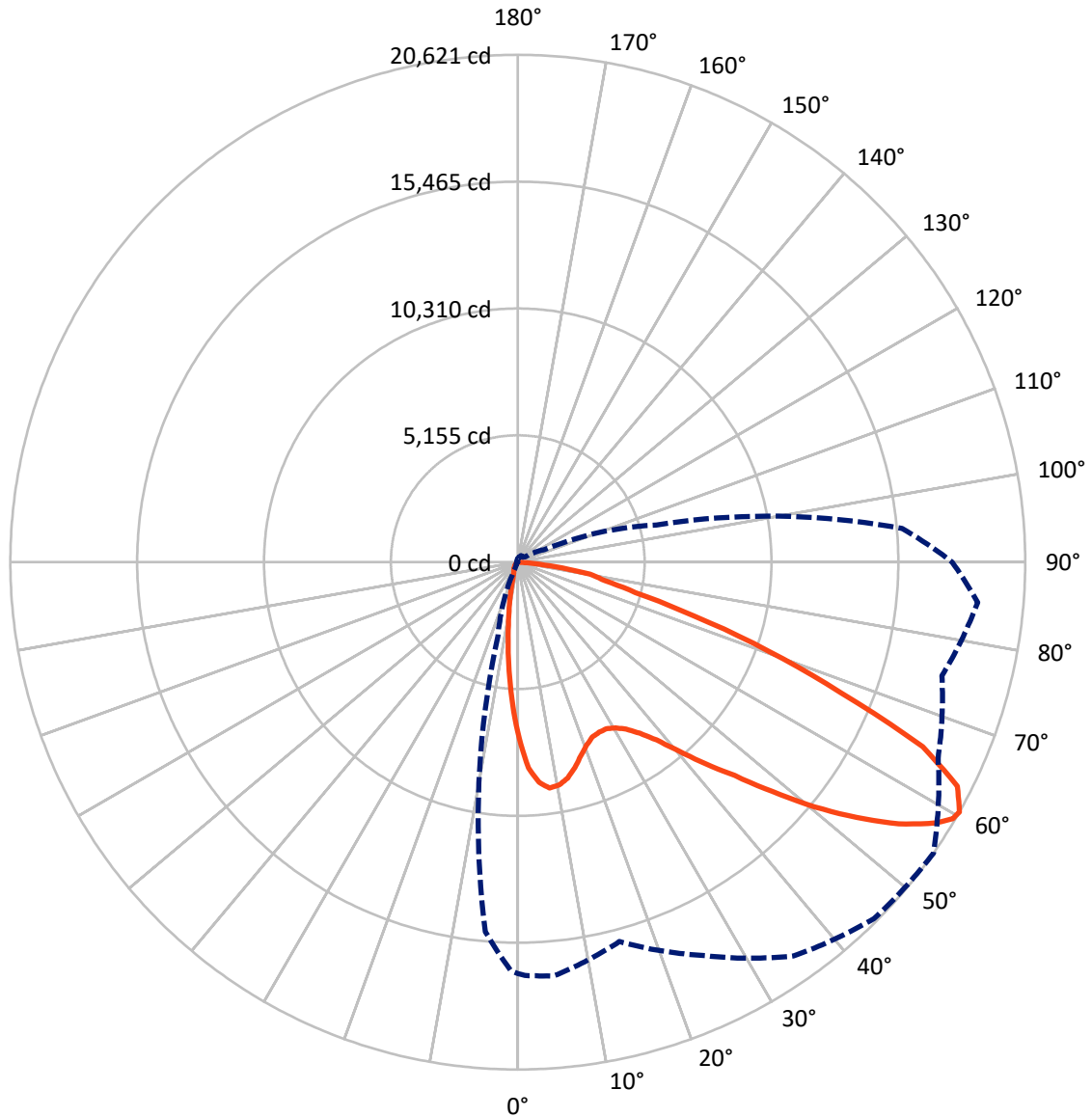
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 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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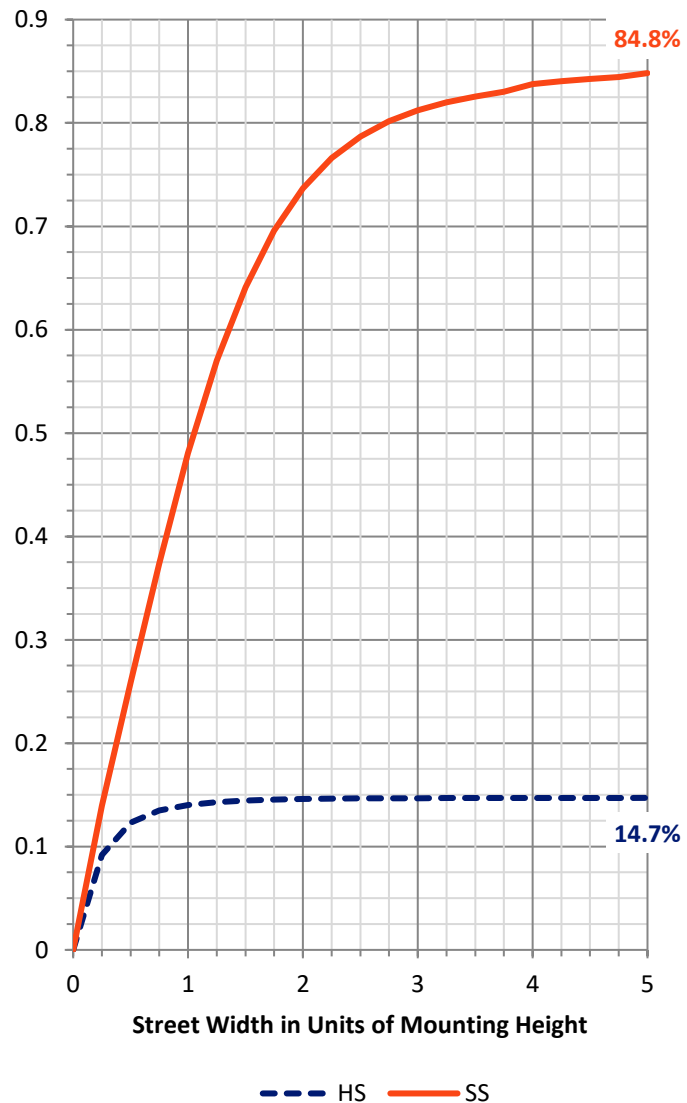
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3138.2	0.0	3138.2
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	18007.7	0.0	18007.7
	% Fixture	85.2	0.0	85.2
Total	Lumens	21146.0	0.0	21146.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	530.2	2.5
10°-20°	1044.1	4.9
20°-30°	1545.5	7.3
30°-40°	2303.7	10.9
40°-50°	3373.7	16.0
50°-60°	4870.6	23.0
60°-70°	5123.7	24.2
70°-80°	2107.7	10.0
80°-90°	246.9	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°	21146.0	100.0
0°-180°	21146.0	100.0



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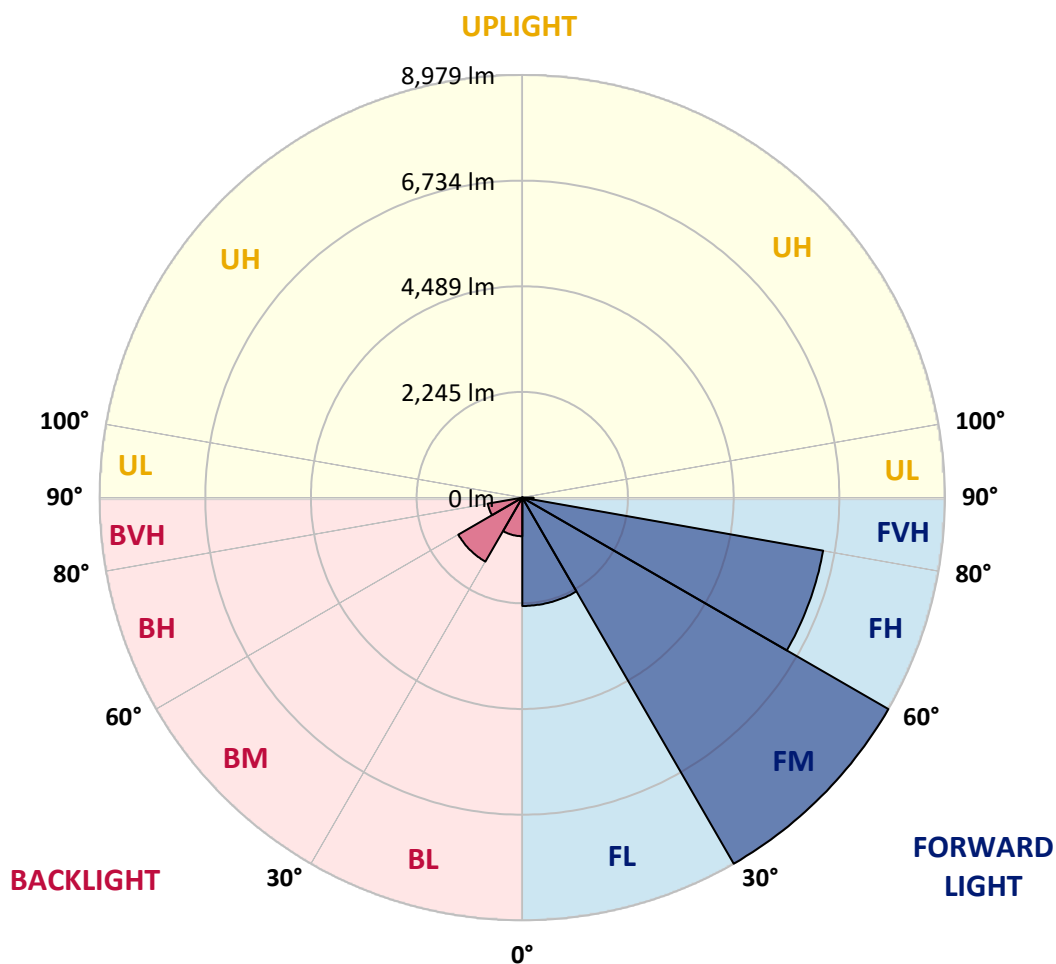
CATALOG NUMBER: GALN-SA5C-727-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2301.0	10.9			
FM	(30°-60°)	8978.6	42.5			
FH	(60°-80°)	6488.5	30.7			G3/7500
FVH	(80°-90°)	239.6	1.1			G3/500
BL	(0°-30°)	818.8	3.9	B2/1000		
BM	(30°-60°)	1569.4	7.4	B2/2500		
BH	(60°-80°)	742.8	3.5	B2/1000		G2/1000
BVH	(80°-90°)	7.3	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°	7160.0	7160.0	7160.0	7160.0	7160.0	7160.0	7160.0	7160.0	7160.0	7160.0	7160.0
2.5°	7822.4	7809.4	7925.0	8113.8	8304.2	8403.5	8384.0	8375.8	8217.9	8102.4	7859.9
5°	7806.1	7872.9	8079.6	8590.7	8978.0	9165.2	9220.6	8987.8	8680.2	8234.2	7684.1
7.5°	7339.0	7422.0	7758.9	8558.1	9246.6	9653.5	9638.9	9266.1	8631.4	7941.2	7156.7
10°	6759.6	6857.2	7252.8	8222.8	9116.4	9653.5	9682.8	9210.8	8421.4	7536.0	6710.7
12.5°	6351.0	6466.6	6904.4	7910.3	8781.1	9310.1	9344.3	9002.5	8263.5	7379.7	6468.2
15°	6212.7	6321.7	6766.1	7752.4	8424.7	8709.5	8701.3	8665.5	8201.7	7417.1	6481.3
17.5°	6450.3	6539.8	7041.2	7824.1	8091.0	8061.7	8104.0	8276.5	8214.7	7731.3	6891.4
20°	7063.9	7155.1	7693.8	8043.8	7835.4	7649.9	7669.4	7957.5	8335.1	8322.1	7532.7
22.5°	7908.7	8063.3	8551.6	8470.2	7801.3	7394.4	7353.7	7728.0	8540.2	9002.5	8398.6
25°	8978.0	9134.3	9515.2	9150.6	7968.9	7334.1	7296.7	7658.0	8789.2	9666.5	9373.6
27.5°	9876.5	9995.3	10374.6	9813.0	8216.3	7360.2	7298.3	7667.8	8991.1	10231.3	10195.5
30°	10595.9	10683.8	10906.8	10122.3	8429.5	7474.1	7402.5	7811.0	9080.6	10506.4	10861.2
32.5°	11175.4	11323.5	11393.5	10452.7	8735.5	7689.0	7566.9	8086.1	9298.7	10846.6	11559.5
35°	11837.8	12008.7	11919.2	10768.4	9139.2	8024.3	7874.5	8532.1	9629.1	11160.7	12370.0
37.5°	12677.7	12874.6	12524.7	11100.5	9565.6	8528.8	8458.8	9158.7	10130.4	11609.9	13239.2
40°	13546.8	13660.8	13112.2	11504.1	10089.7	9262.9	9329.6	10089.7	10786.4	12148.7	14163.7
42.5°	14225.6	14333.0	13716.1	11842.7	10625.2	10133.7	10412.0	11212.8	11538.3	12700.5	14853.8
45°	14744.8	14835.9	14134.4	12212.2	11347.9	11395.1	11920.8	12370.0	12291.9	13037.4	15386.1
47.5°	15148.4	15226.5	14456.7	12609.3	12430.3	12938.1	13742.1	13932.6	13073.2	13402.0	15867.8
50°	15314.4	15337.2	14557.6	13115.5	13659.1	14904.3	15742.5	15626.9	13968.4	13807.2	16380.5
52.5°	15530.9	15526.0	14845.7	13597.3	14814.8	16662.1	17498.7	17236.7	14980.8	14414.4	16956.7
55°	16099.0	16105.5	15462.6	14280.9	15799.5	18081.4	18976.6	18786.2	16048.5	15439.8	17628.9
57.5°	16789.1	16813.5	16339.9	15080.1	16740.3	19110.1	20080.2	20006.9	17492.2	16580.7	18263.7
59°	16878.6	16927.4	16754.9	15643.2	17298.5	19425.9	20457.8	20529.4	18265.3	17332.7	18607.2
60°	16715.8	16797.2	16875.3	15962.2	17625.7	19539.8	20480.6	20620.5	18846.4	17843.8	18763.4
62.5°	16006.2	16134.8	16527.0	16943.7	18034.2	19185.0	19753.0	20046.0	19565.8	19186.6	18778.1
65°	15076.8	15143.5	15710.0	17117.9	17241.6	17528.0	17703.8	18079.8	18701.6	19704.2	18105.8
67.5°	13553.3	13750.3	14443.7	16107.1	14902.6	14564.1	14520.2	14145.8	15760.4	18470.4	16448.9
70°	11196.5	11284.4	12138.9	13205.0	11247.0	10726.1	10934.5	10794.5	12217.0	15900.4	13239.2
72.5°	8467.0	8665.5	9500.5	10525.9	7653.2	6977.7	7552.2	7500.2	9176.6	12778.6	9095.2
75°	6023.9	6152.5	7216.9	8237.5	5359.8	4541.1	4747.8	4941.5	6406.4	10089.7	5374.5
77.5°	4139.1	4249.8	5048.9	5447.7	3909.6	3745.2	3426.2	3613.4	4197.7	5986.5	2924.9
80°	2496.8	2491.9	3017.6	3115.3	2723.0	3162.5	2653.0	2978.6	2537.5	2561.9	1132.8
82.5°	1621.1	1604.9	1845.7	2011.8	1515.3	1593.5	1069.4	1541.4	1653.7	714.5	358.1
85°	725.9	756.9	887.1	1170.3	664.1	353.2	218.1	473.6	704.8	359.7	0.0
87.5°	74.9	58.6	156.3	284.8	91.1	9.8	32.6	16.3	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°	7160.0	7160.0	7160.0	7160.0	7160.0	7160.0	7160.0	7160.0	7160.0	7160.0	7160.0
2.5°	7747.6	7653.2	7371.6	7107.9	6881.7	6605.0	6425.9	6144.3	5973.4	5921.3	5929.5
5°	7436.7	7164.9	6629.4	6201.3	5724.4	5452.6	5039.2	4642.0	4427.2	4347.4	4311.6
7.5°	6785.6	6494.3	5848.1	5175.9	4664.8	4187.9	3880.3	3530.3	3291.1	3094.1	3060.0
10°	6302.2	5919.7	5118.9	4396.2	3992.6	3634.5	3326.9	2976.9	2695.4	2470.8	2408.9
12.5°	6012.5	5584.4	4690.9	4085.4	3702.9	3335.0	2934.6	2529.3	2241.3	1998.7	1886.4
15°	5960.4	5464.0	4570.4	3862.4	3390.4	2946.0	2413.8	1976.0	1679.7	1450.2	1380.2
17.5°	6274.5	5680.5	4552.5	3629.6	2981.8	2351.9	1798.5	1435.6	1101.9	973.3	922.9
20°	6834.4	6062.9	4550.9	3359.4	2561.9	1811.6	1263.0	935.9	800.8	738.9	709.6
22.5°	7597.8	6583.8	4637.1	3126.7	2125.7	1336.3	901.7	745.5	667.3	616.9	605.5
25°	8530.4	7355.3	4848.7	2968.8	1792.0	1048.2	743.8	638.0	572.9	550.1	540.4
27.5°	9358.9	8094.2	5081.5	2806.0	1552.8	927.8	690.1	584.3	532.2	514.3	499.7
30°	10073.4	8764.8	5193.8	2591.2	1360.7	849.6	699.9	625.0	556.7	502.9	478.5
32.5°	10669.2	9279.2	5267.0	2395.9	1197.9	695.0	553.4	483.4	452.5	433.0	416.7
35°	11414.6	9835.8	5223.1	2285.2	1114.9	633.2	504.6	416.7	364.6	325.5	309.3
37.5°	12195.9	10392.5	5146.6	2194.1	1077.5	587.6	480.2	395.5	338.5	297.9	276.7
40°	13004.8	10908.4	5057.1	2109.4	1043.3	558.3	465.5	377.6	320.6	276.7	253.9
42.5°	13745.4	11411.4	5021.3	2054.1	988.0	563.2	454.1	369.5	302.7	257.2	237.6
45°	14344.4	11888.3	5070.1	2024.8	927.8	555.0	457.4	359.7	288.1	244.1	224.6
47.5°	14984.0	12562.1	5228.0	1995.5	869.2	516.0	481.8	358.1	281.6	236.0	214.8
50°	15727.9	13424.8	5589.3	1923.9	797.5	473.6	512.7	356.5	273.4	226.2	205.1
52.5°	16719.1	14404.6	5962.0	1798.5	693.4	433.0	489.9	351.6	257.2	214.8	193.7
55°	17609.4	15436.5	6277.8	1650.4	561.5	374.4	441.1	330.4	229.5	195.3	175.8
57.5°	17977.3	16019.2	6268.0	1445.3	449.2	328.8	363.0	302.7	200.2	172.5	156.3
59°	17842.2	15946.0	6058.1	1294.0	410.2	304.4	301.1	299.5	187.2	156.3	143.2
60°	17651.7	15679.0	5831.8	1219.1	385.8	288.1	276.7	296.2	175.8	146.5	133.5
62.5°	16922.5	14572.2	5081.5	1092.1	353.2	244.1	221.4	250.7	156.3	127.0	115.6
65°	15866.2	12871.4	4301.8	1056.3	343.4	201.8	183.9	179.0	133.5	107.4	97.7
67.5°	13805.6	10892.1	3484.8	1031.9	346.7	169.3	161.1	135.1	110.7	89.5	83.0
70°	11053.3	8493.0	2853.2	1004.3	349.9	138.3	135.1	107.4	89.5	74.9	68.4
72.5°	6715.6	5034.3	2246.1	872.4	340.2	110.7	120.4	81.4	65.1	53.7	50.5
75°	4152.1	3445.7	1393.3	678.7	224.6	81.4	84.6	50.5	43.9	34.2	34.2
77.5°	2405.6	2176.2	498.1	244.1	99.3	48.8	37.4	26.0	24.4	14.6	14.6
80°	997.7	799.2	172.5	83.0	53.7	22.8	8.1	1.6	0.0	0.0	0.0
82.5°	291.3	258.8	47.2	37.4	16.3	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°	7160.0	7160.0	7160.0	7160.0	7160.0	7160.0	7160.0	7160.0	7160.0	7160.0	7160.0
2.5°	5791.1	5737.4	5713.0	5796.0	5719.5	5817.2	5742.3	5774.9	5870.9	5913.2	6022.3
5°	4334.4	4279.1	4253.0	4378.3	4371.8	4433.7	4427.2	4484.1	4533.0	4423.9	4536.2
7.5°	3019.3	2981.8	3043.7	3141.3	3245.5	3211.3	3211.3	3134.8	3160.9	3144.6	3139.7
10°	2296.6	2168.0	2135.5	2132.2	2171.3	2179.4	2135.5	2029.7	2068.7	2080.1	2148.5
12.5°	1806.7	1707.4	1556.0	1487.7	1469.8	1484.4	1339.5	1246.8	1290.7	1264.7	1331.4
15°	1295.6	1214.2	1124.7	1048.2	1027.0	997.7	839.9	729.2	716.2	721.0	732.4
17.5°	924.5	869.2	869.2	787.8	743.8	655.9	576.2	527.4	522.5	527.4	535.5
20°	682.0	652.7	649.4	628.3	579.4	520.8	465.5	455.7	452.5	460.6	463.9
22.5°	587.6	556.7	530.6	529.0	483.4	434.6	408.5	395.5	397.1	400.4	408.5
25°	525.7	493.2	465.5	449.2	416.7	382.5	358.1	351.6	351.6	356.5	358.1
27.5°	481.8	441.1	416.7	393.9	364.6	335.3	314.1	309.3	306.0	309.3	317.4
30°	450.9	410.2	379.2	345.1	322.3	294.6	276.7	270.2	268.6	270.2	276.7
32.5°	385.8	361.3	336.9	306.0	278.3	260.4	240.9	229.5	229.5	232.8	239.3
35°	291.3	278.3	276.7	268.6	245.8	226.2	203.5	192.1	192.1	198.6	201.8
37.5°	257.2	232.8	229.5	226.2	216.5	190.4	169.3	159.5	157.9	162.8	169.3
40°	234.4	206.7	192.1	188.8	190.4	161.1	138.3	128.6	128.6	130.2	136.7
42.5°	216.5	183.9	157.9	154.6	161.1	135.1	112.3	102.5	102.5	102.5	110.7
45°	201.8	164.4	133.5	117.2	127.0	110.7	91.1	81.4	78.1	81.4	84.6
47.5°	192.1	149.7	117.2	94.4	94.4	87.9	73.2	61.9	58.6	60.2	65.1
50°	183.9	136.7	99.3	76.5	68.4	70.0	55.3	47.2	43.9	43.9	48.8
52.5°	170.9	123.7	86.3	65.1	52.1	47.2	40.7	34.2	32.6	34.2	37.4
55°	154.6	112.3	74.9	53.7	40.7	32.6	29.3	24.4	22.8	24.4	29.3
57.5°	136.7	94.4	60.2	42.3	27.7	21.2	19.5	16.3	13.0	14.6	17.9
59°	125.3	84.6	52.1	34.2	21.2	14.6	14.6	11.4	8.1	9.8	14.6
60°	120.4	78.1	43.9	29.3	17.9	11.4	11.4	8.1	4.9	6.5	11.4
62.5°	102.5	65.1	34.2	17.9	8.1	1.6	4.9	1.6	0.0	1.6	4.9
65°	86.3	52.1	22.8	8.1	0.0	0.0	0.0	0.0	0.0	0.0	1.6
67.5°	71.6	39.1	11.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	57.0	26.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	39.1	14.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	24.4	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	9.8	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: P454378

CATALOG NUMBER: GALN-SA5C-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7160.0	7160.0	7160.0	7160.0	7160.0	7160.0	7160.0	7160.0	7160.0	7160.0
2.5°	6028.8	6261.5	6404.8	6674.9	6951.6	7164.9	7431.8	7671.1	7770.3	7822.4
5°	4650.2	4974.1	5249.1	5660.9	6043.4	6508.9	6980.9	7537.6	7750.8	7806.1
7.5°	3263.4	3593.8	3881.9	4358.8	4904.1	5527.5	6233.9	6940.2	7251.1	7339.0
10°	2356.8	2710.0	3061.6	3538.5	4047.9	4723.4	5459.1	6333.1	6691.2	6759.6
12.5°	1487.7	1866.9	2438.2	3027.4	3566.2	4109.8	4879.7	5830.2	6225.7	6351.0
15°	862.6	1145.9	1577.2	2345.4	3030.7	3750.1	4589.9	5641.4	6084.1	6212.7
17.5°	577.8	675.5	971.7	1559.3	2464.2	3418.0	4516.7	5796.0	6285.9	6450.3
20°	486.7	530.6	634.8	950.5	1897.8	3121.8	4536.2	6215.9	6858.9	7063.9
22.5°	428.1	468.8	535.5	683.6	1324.9	2754.0	4629.0	6816.5	7646.6	7908.7
25°	377.6	418.3	476.9	566.4	890.3	2329.1	4832.5	7695.5	8690.0	8978.0
27.5°	335.3	372.7	423.2	499.7	685.2	1855.5	5013.1	8551.6	9642.1	9876.5
30°	296.2	327.2	376.0	434.6	569.7	1430.7	5104.3	9300.3	10335.5	10595.9
32.5°	257.2	286.5	333.7	380.9	468.8	1090.5	5040.8	9850.5	11009.3	11175.4
35°	219.7	250.7	289.7	333.7	405.3	880.6	4723.4	10469.0	11707.6	11837.8
37.5°	188.8	214.8	255.5	289.7	366.2	704.8	4339.3	11025.6	12490.5	12677.7
40°	159.5	185.6	226.2	257.2	336.9	555.0	3992.6	11644.1	13315.7	13546.8
42.5°	130.2	161.1	196.9	247.4	289.7	423.2	3572.7	12145.4	13935.8	14225.6
45°	104.2	138.3	177.4	245.8	252.3	322.3	3167.4	12536.1	14484.3	14744.8
47.5°	83.0	117.2	170.9	229.5	206.7	255.5	2936.3	12944.6	14940.1	15148.4
50°	66.7	97.7	179.0	201.8	172.5	216.5	2929.7	13400.3	15176.1	15314.4
52.5°	53.7	79.8	151.4	154.6	146.5	190.4	3105.5	13913.0	15417.0	15530.9
55°	45.6	66.7	99.3	113.9	131.8	172.5	3237.4	14702.4	15991.5	16099.0
57.5°	35.8	57.0	76.5	91.1	117.2	157.9	3255.3	15311.2	16719.1	16789.1
59°	30.9	48.8	68.4	81.4	107.4	148.1	3182.0	15348.6	16766.3	16878.6
60°	26.0	43.9	60.2	76.5	99.3	140.0	3102.3	15076.8	16590.5	16715.8
62.5°	19.5	34.2	43.9	61.9	81.4	120.4	2724.7	14127.9	15918.3	16006.2
65°	13.0	24.4	32.6	45.6	63.5	104.2	2220.1	12897.4	14879.9	15076.8
67.5°	8.1	17.9	26.0	34.2	52.1	87.9	1582.1	11059.8	13426.4	13553.3
70°	4.9	11.4	19.5	27.7	40.7	70.0	939.1	8742.0	11170.5	11196.5
72.5°	3.3	8.1	13.0	19.5	32.6	63.5	455.7	5698.4	8156.1	8467.0
75°	1.6	4.9	8.1	14.6	26.0	52.1	218.1	3807.0	5934.4	6023.9
77.5°	0.0	1.6	4.9	9.8	19.5	40.7	127.0	2500.1	4046.3	4139.1
80°	0.0	0.0	3.3	8.1	14.6	26.0	76.5	1474.6	2451.2	2496.8
82.5°	0.0	0.0	1.6	6.5	9.8	19.5	39.1	647.8	1604.9	1621.1
85°	0.0	0.0	1.6	6.5	8.1	13.0	14.6	87.9	712.9	725.9
87.5°	0.0	0.0	1.6	8.1	8.1	8.1	8.1	4.9	60.2	74.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)