

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: P453218

Luminaire Tested: **GALN-SA4B-727-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453218
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-SA4B-727-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 13519 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

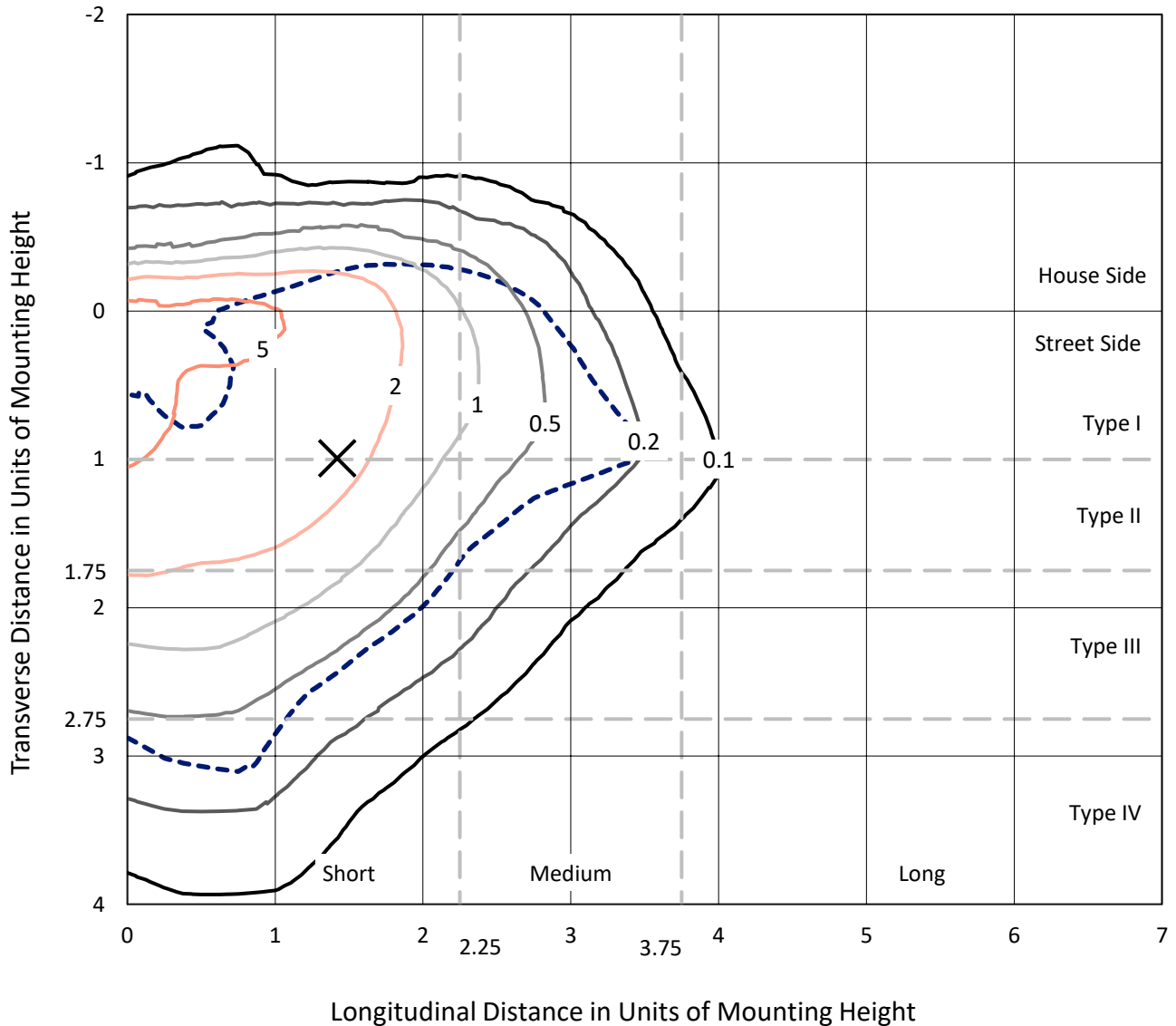
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

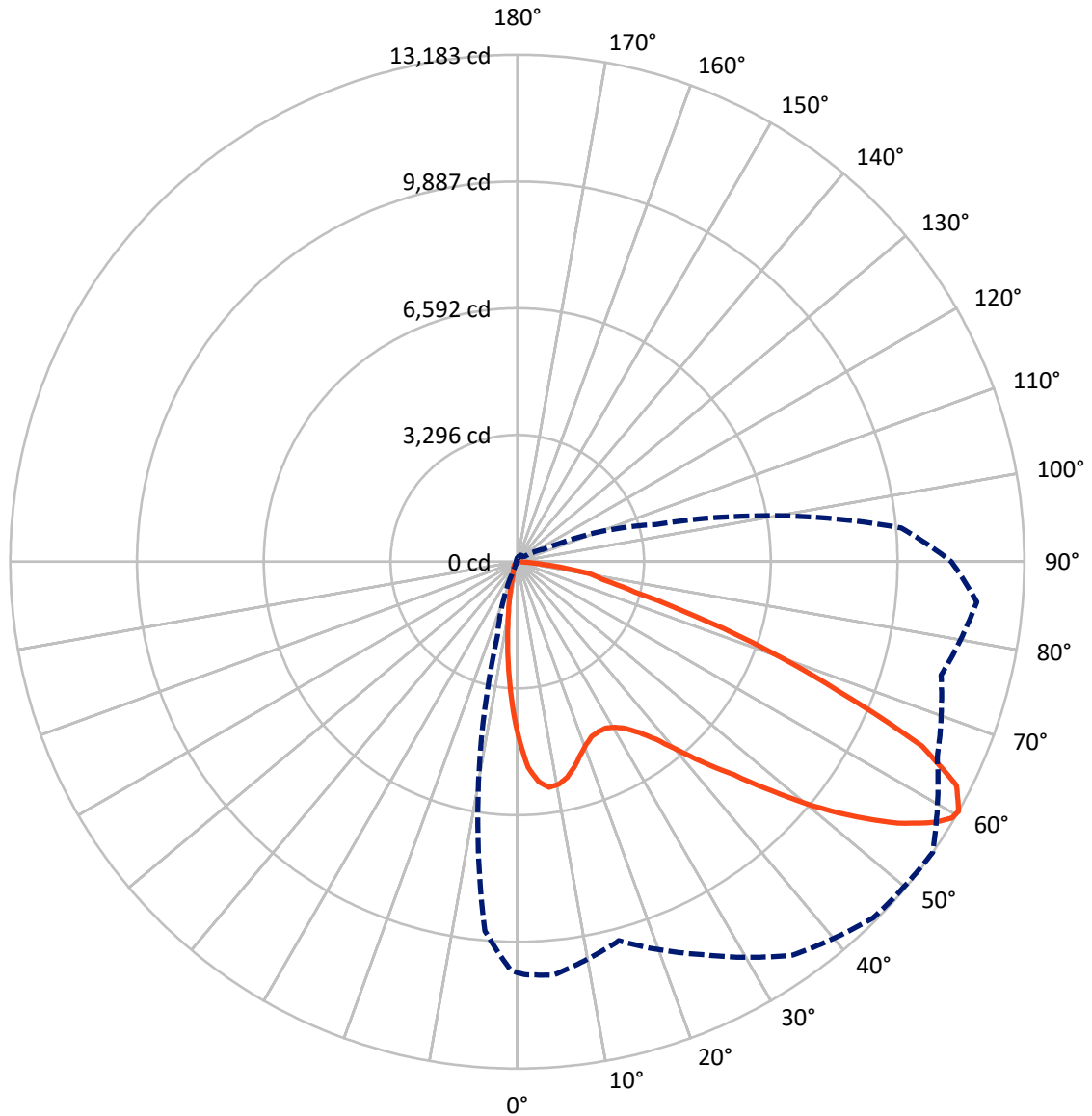
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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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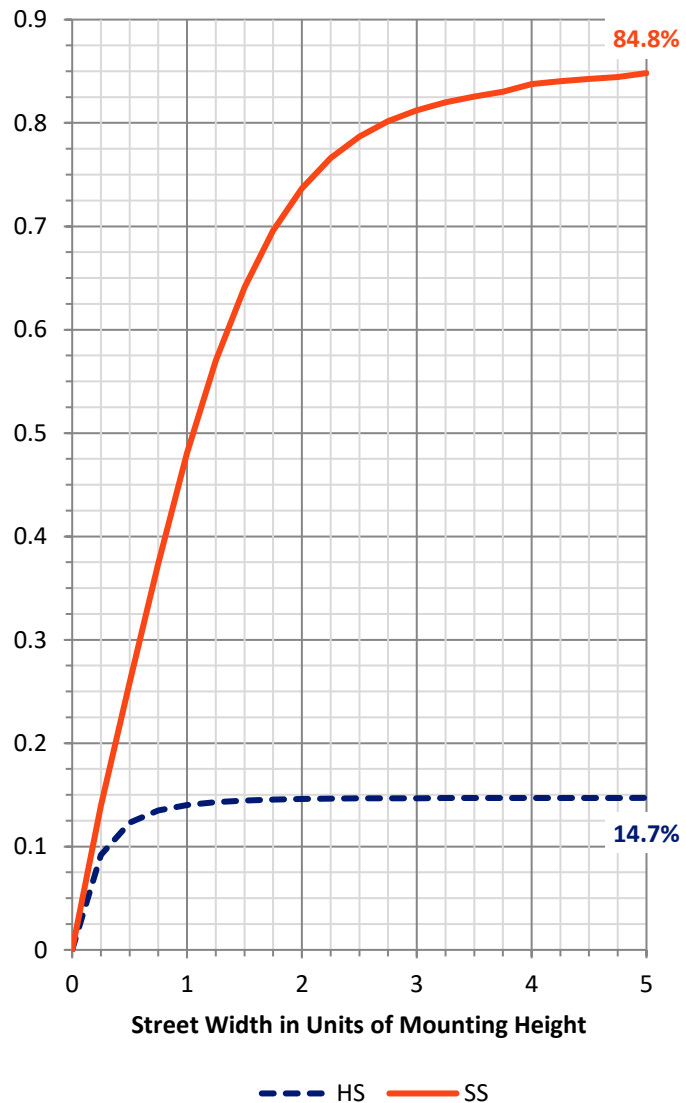
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2006.3	0.0	2006.3
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	11512.7	0.0	11512.7
	% Fixture	85.2	0.0	85.2
Total	Lumens	13519.0	0.0	13519.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.0	2.5
10°-20°	667.5	4.9
20°-30°	988.0	7.3
30°-40°	1472.8	10.9
40°-50°	2156.9	16.0
50°-60°	3113.9	23.0
60°-70°	3275.6	24.2
70°-80°	1347.5	10.0
80°-90°	157.8	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°	13519.0	100.0
0°-180°	13519.0	100.0



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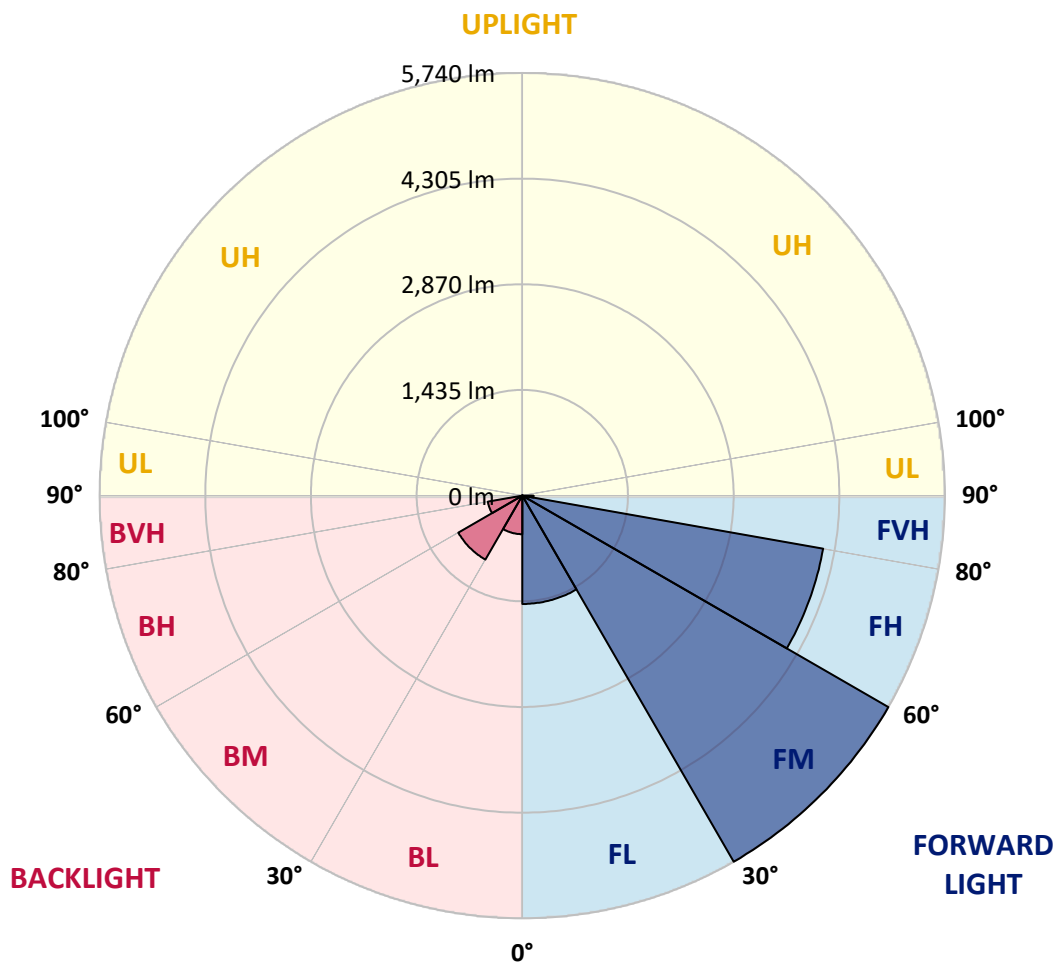
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1471.1	10.9			
FM (30°-60°)	5740.2	42.5			
FH (60°-80°)	4148.2	30.7			G2/5000
FVH (80°-90°)	153.2	1.1			G2/225
BL (0°-30°)	523.5	3.9	B2/1000		
BM (30°-60°)	1003.3	7.4	B2/2500		
BH (60°-80°)	474.9	3.5	B1/500		G1/500
BVH (80°-90°)	4.6	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4577.5	4577.5	4577.5	4577.5	4577.5	4577.5	4577.5	4577.5	4577.5	4577.5	4577.5
2.5°	5001.0	4992.7	5066.6	5187.3	5309.0	5372.5	5360.0	5354.8	5253.9	5180.0	5024.9
5°	4990.6	5033.3	5165.4	5492.2	5739.8	5859.5	5894.9	5746.1	5549.4	5264.3	4912.6
7.5°	4692.0	4745.0	4960.4	5471.4	5911.5	6171.7	6162.3	5924.0	5518.2	5077.0	4575.4
10°	4321.5	4383.9	4636.8	5257.0	5828.3	6171.7	6190.4	5888.6	5383.9	4817.9	4290.3
12.5°	4060.3	4134.2	4414.1	5057.2	5613.9	5952.1	5973.9	5755.4	5283.0	4718.0	4135.3
15°	3971.9	4041.6	4325.7	4956.3	5386.0	5568.1	5562.9	5540.0	5243.5	4741.9	4143.6
17.5°	4123.8	4181.0	4501.5	5002.1	5172.7	5154.0	5181.0	5291.3	5251.8	4942.7	4405.8
20°	4516.1	4574.4	4918.8	5142.5	5009.3	4890.7	4903.2	5087.4	5328.8	5320.5	4815.8
22.5°	5056.2	5155.0	5467.2	5415.2	4987.5	4727.3	4701.3	4940.7	5459.9	5755.4	5369.4
25°	5739.8	5839.7	6083.2	5850.1	5094.7	4688.8	4664.9	4895.9	5619.1	6180.0	5992.7
27.5°	6314.2	6390.2	6632.6	6273.6	5252.8	4705.5	4665.9	4902.2	5748.1	6541.1	6518.2
30°	6774.2	6830.3	6972.9	6471.3	5389.1	4778.3	4732.5	4993.7	5805.4	6716.9	6943.8
32.5°	7144.6	7239.3	7284.0	6682.6	5584.8	4915.7	4837.6	5169.6	5944.8	6934.4	7390.2
35°	7568.1	7677.4	7620.1	6884.5	5842.8	5130.0	5034.3	5454.7	6156.1	7135.2	7908.4
37.5°	8105.1	8231.0	8007.2	7096.7	6115.5	5452.6	5407.9	5855.3	6476.5	7422.4	8464.0
40°	8660.7	8733.6	8382.9	7354.8	6450.5	5921.9	5964.6	6450.5	6895.9	7766.9	9055.1
42.5°	9094.6	9163.3	8768.9	7571.2	6792.9	6478.6	6656.6	7168.5	7376.6	8119.6	9496.3
45°	9426.6	9484.9	9036.4	7807.4	7254.9	7285.1	7621.2	7908.4	7858.4	8335.0	9836.6
47.5°	9684.6	9734.6	9242.4	8061.3	7946.9	8271.5	8785.6	8907.3	8357.9	8568.1	10144.6
50°	9790.8	9805.4	9306.9	8385.0	8732.5	9528.6	10064.5	9990.6	8930.2	8827.2	10472.4
52.5°	9929.2	9926.1	9491.1	8693.0	9471.3	10652.4	11187.2	11019.7	9577.5	9215.3	10840.7
55°	10292.3	10296.5	9885.5	9130.0	10100.9	11559.8	12132.1	12010.3	10260.1	9870.9	11270.5
57.5°	10733.5	10749.2	10446.3	9640.9	10702.3	12217.4	12837.6	12790.8	11183.1	10600.4	11676.3
59°	10790.8	10822.0	10711.7	10001.0	11059.2	12419.3	13079.0	13124.8	11677.3	11081.1	11895.9
60°	10686.7	10738.7	10788.7	10204.9	11268.4	12492.1	13093.6	13183.1	12048.8	11407.8	11995.8
62.5°	10233.0	10315.2	10566.0	10832.4	11529.6	12265.3	12628.4	12815.7	12508.8	12266.3	12005.1
65°	9638.9	9681.5	10043.6	10943.7	11022.8	11206.0	11318.4	11558.7	11956.2	12597.2	11575.4
67.5°	8664.9	8790.8	9234.1	10297.5	9527.5	9311.1	9283.0	9043.7	10075.9	11808.5	10516.1
70°	7158.1	7214.3	7760.6	8442.2	7190.4	6857.4	6990.6	6901.1	7810.6	10165.4	8464.0
72.5°	5413.1	5540.0	6073.8	6729.4	4892.8	4461.0	4828.3	4795.0	5866.8	8169.6	5814.7
75°	3851.2	3933.4	4613.9	5266.4	3426.6	2903.2	3035.4	3159.2	4095.7	6450.5	3436.0
77.5°	2646.2	2716.9	3227.9	3482.8	2499.5	2394.4	2190.4	2310.1	2683.6	3827.2	1869.9
80°	1596.2	1593.1	1929.2	1991.7	1740.9	2021.8	1696.1	1904.3	1622.3	1637.9	724.2
82.5°	1036.4	1026.0	1180.0	1286.2	968.8	1018.7	683.7	985.4	1057.2	456.8	228.9
85°	464.1	483.9	567.1	748.2	424.6	225.8	139.4	302.8	450.6	230.0	0.0
87.5°	47.9	37.5	99.9	182.1	58.3	6.2	20.8	10.4	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°	4577.5	4577.5	4577.5	4577.5	4577.5	4577.5	4577.5	4577.5	4577.5	4577.5	4577.5
2.5°	4953.1	4892.8	4712.8	4544.2	4399.6	4222.7	4108.2	3928.2	3818.9	3785.6	3790.8
5°	4754.4	4580.6	4238.3	3964.6	3659.7	3485.9	3221.6	2967.7	2830.4	2779.4	2756.5
7.5°	4338.2	4151.9	3738.8	3309.0	2982.3	2677.4	2480.7	2257.0	2104.0	1978.1	1956.3
10°	4029.1	3784.6	3272.6	2810.6	2552.5	2323.6	2126.9	1903.2	1723.2	1579.6	1540.1
12.5°	3843.9	3570.2	2998.9	2611.8	2367.3	2132.1	1876.2	1617.1	1432.9	1277.8	1206.0
15°	3810.6	3493.2	2921.9	2469.3	2167.5	1883.4	1543.2	1263.3	1073.9	927.2	882.4
17.5°	4011.4	3631.6	2910.5	2320.5	1906.3	1503.6	1149.8	917.8	704.5	622.3	590.0
20°	4369.4	3876.1	2909.5	2147.7	1637.9	1158.2	807.5	598.3	512.0	472.4	453.7
22.5°	4857.4	4209.1	2964.6	1998.9	1359.0	854.3	576.5	476.6	426.6	394.4	387.1
25°	5453.7	4702.4	3099.9	1898.0	1145.7	670.1	475.5	407.9	366.3	351.7	345.5
27.5°	5983.3	5174.8	3248.7	1794.0	992.7	593.1	441.2	373.6	340.3	328.8	319.5
30°	6440.1	5603.5	3320.5	1656.6	869.9	543.2	447.4	399.6	355.9	321.5	305.9
32.5°	6821.0	5932.3	3367.3	1531.7	765.9	444.3	353.8	309.1	289.3	276.8	266.4
35°	7297.6	6288.2	3339.2	1461.0	712.8	404.8	322.6	266.4	233.1	208.1	197.7
37.5°	7797.0	6644.1	3290.3	1402.7	688.9	375.6	307.0	252.9	216.4	190.4	176.9
40°	8314.2	6973.9	3233.1	1348.6	667.0	356.9	297.6	241.4	205.0	176.9	162.3
42.5°	8787.7	7295.5	3210.2	1313.2	631.6	360.0	290.3	236.2	193.5	164.4	151.9
45°	9170.6	7600.4	3241.4	1294.5	593.1	354.8	292.4	230.0	184.2	156.1	143.6
47.5°	9579.5	8031.2	3342.3	1275.7	555.7	329.9	308.0	228.9	180.0	150.9	137.4
50°	10055.1	8582.7	3573.3	1230.0	509.9	302.8	327.8	227.9	174.8	144.6	131.1
52.5°	10688.8	9209.1	3811.6	1149.8	443.3	276.8	313.2	224.8	164.4	137.4	123.8
55°	11258.0	9868.8	4013.5	1055.1	359.0	239.3	282.0	211.2	146.7	124.9	112.4
57.5°	11493.2	10241.4	4007.3	924.0	287.2	210.2	232.0	193.5	128.0	110.3	99.9
59°	11406.8	10194.5	3873.0	827.3	262.2	194.6	192.5	191.5	119.7	99.9	91.6
60°	11285.1	10023.9	3728.4	779.4	246.6	184.2	176.9	189.4	112.4	93.7	85.3
62.5°	10818.9	9316.3	3248.7	698.2	225.8	156.1	141.5	160.2	99.9	81.2	73.9
65°	10143.5	8228.9	2750.2	675.3	219.6	129.0	117.6	114.5	85.3	68.7	62.4
67.5°	8826.2	6963.5	2227.9	659.7	221.6	108.2	103.0	86.4	70.8	57.2	53.1
70°	7066.6	5429.7	1824.1	642.0	223.7	88.4	86.4	68.7	57.2	47.9	43.7
72.5°	4293.4	3218.5	1436.0	557.7	217.5	70.8	77.0	52.0	41.6	34.3	32.3
75°	2654.5	2202.9	890.7	433.9	143.6	52.0	54.1	32.3	28.1	21.9	21.9
77.5°	1538.0	1391.3	318.4	156.1	63.5	31.2	23.9	16.6	15.6	9.4	9.4
80°	637.9	510.9	110.3	53.1	34.3	14.6	5.2	1.0	0.0	0.0	0.0
82.5°	186.3	165.5	30.2	23.9	10.4	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°	4577.5	4577.5	4577.5	4577.5	4577.5	4577.5	4577.5	4577.5	4577.5	4577.5	4577.5
2.5°	3702.4	3668.0	3652.4	3705.5	3656.6	3719.0	3671.2	3692.0	3753.4	3780.4	3850.1
5°	2771.1	2735.7	2719.0	2799.2	2795.0	2834.5	2830.4	2866.8	2898.0	2828.3	2900.1
7.5°	1930.3	1906.3	1945.9	2008.3	2074.9	2053.1	2053.1	2004.2	2020.8	2010.4	2007.3
10°	1468.3	1386.0	1365.2	1363.2	1388.1	1393.3	1365.2	1297.6	1322.6	1329.9	1373.6
12.5°	1155.0	1091.6	994.8	951.1	939.6	949.0	856.4	797.1	825.2	808.5	851.2
15°	828.3	776.3	719.0	670.1	656.6	637.9	536.9	466.2	457.9	461.0	468.3
17.5°	591.0	555.7	555.7	503.6	475.5	419.4	368.4	337.1	334.0	337.1	342.3
20°	436.0	417.3	415.2	401.7	370.4	333.0	297.6	291.4	289.3	294.5	296.6
22.5°	375.6	355.9	339.2	338.2	309.1	277.8	261.2	252.9	253.9	256.0	261.2
25°	336.1	315.3	297.6	287.2	266.4	244.5	228.9	224.8	224.8	227.9	228.9
27.5°	308.0	282.0	266.4	251.8	233.1	214.4	200.8	197.7	195.6	197.7	202.9
30°	288.2	262.2	242.5	220.6	206.0	188.3	176.9	172.7	171.7	172.7	176.9
32.5°	246.6	231.0	215.4	195.6	177.9	166.5	154.0	146.7	146.7	148.8	153.0
35°	186.3	177.9	176.9	171.7	157.1	144.6	130.1	122.8	122.8	127.0	129.0
37.5°	164.4	148.8	146.7	144.6	138.4	121.7	108.2	102.0	100.9	104.1	108.2
40°	149.8	132.2	122.8	120.7	121.7	103.0	88.4	82.2	82.2	83.2	87.4
42.5°	138.4	117.6	100.9	98.9	103.0	86.4	71.8	65.6	65.6	65.6	70.8
45°	129.0	105.1	85.3	74.9	81.2	70.8	58.3	52.0	49.9	52.0	54.1
47.5°	122.8	95.7	74.9	60.4	60.4	56.2	46.8	39.5	37.5	38.5	41.6
50°	117.6	87.4	63.5	48.9	43.7	44.7	35.4	30.2	28.1	28.1	31.2
52.5°	109.3	79.1	55.2	41.6	33.3	30.2	26.0	21.9	20.8	21.9	23.9
55°	98.9	71.8	47.9	34.3	26.0	20.8	18.7	15.6	14.6	15.6	18.7
57.5°	87.4	60.4	38.5	27.1	17.7	13.5	12.5	10.4	8.3	9.4	11.4
59°	80.1	54.1	33.3	21.9	13.5	9.4	9.4	7.3	5.2	6.2	9.4
60°	77.0	49.9	28.1	18.7	11.4	7.3	7.3	5.2	3.1	4.2	7.3
62.5°	65.6	41.6	21.9	11.4	5.2	1.0	3.1	1.0	0.0	1.0	3.1
65°	55.2	33.3	14.6	5.2	0.0	0.0	0.0	0.0	0.0	0.0	1.0
67.5°	45.8	25.0	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	36.4	16.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	25.0	9.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	15.6	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	6.2	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: P453218

CATALOG NUMBER: GALN-SA4B-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4577.5	4577.5	4577.5	4577.5	4577.5	4577.5	4577.5	4577.5	4577.5	4577.5
2.5°	3854.3	4003.1	4094.7	4267.4	4444.3	4580.6	4751.3	4904.2	4967.7	5001.0
5°	2972.9	3180.0	3355.9	3619.1	3863.7	4161.3	4463.0	4818.9	4955.2	4990.6
7.5°	2086.4	2297.6	2481.8	2786.7	3135.3	3533.8	3985.4	4437.0	4635.8	4692.0
10°	1506.8	1732.6	1957.3	2262.2	2587.9	3019.8	3490.1	4048.9	4277.8	4321.5
12.5°	951.1	1193.5	1558.8	1935.5	2279.9	2627.5	3119.6	3727.3	3980.2	4060.3
15°	551.5	732.6	1008.3	1499.5	1937.6	2397.5	2934.4	3606.6	3889.7	3971.9
17.5°	369.4	431.8	621.2	996.9	1575.4	2185.2	2887.6	3705.5	4018.7	4123.8
20°	311.1	339.2	405.8	607.7	1213.3	1995.8	2900.1	3974.0	4385.0	4516.1
22.5°	273.7	299.7	342.3	437.0	847.0	1760.7	2959.4	4357.9	4888.6	5056.2
25°	241.4	267.4	304.9	362.1	569.2	1489.1	3089.5	4919.8	5555.6	5739.8
27.5°	214.4	238.3	270.5	319.5	438.1	1186.3	3205.0	5467.2	6164.4	6314.2
30°	189.4	209.2	240.4	277.8	364.2	914.7	3263.2	5945.9	6607.7	6774.2
32.5°	164.4	183.1	213.3	243.5	299.7	697.2	3222.7	6297.6	7038.5	7144.6
35°	140.5	160.2	185.2	213.3	259.1	563.0	3019.8	6693.0	7484.9	7568.1
37.5°	120.7	137.4	163.4	185.2	234.1	450.6	2774.2	7048.9	7985.4	8105.1
40°	102.0	118.6	144.6	164.4	215.4	354.8	2552.5	7444.3	8513.0	8660.7
42.5°	83.2	103.0	125.9	158.2	185.2	270.5	2284.1	7764.8	8909.4	9094.6
45°	66.6	88.4	113.4	157.1	161.3	206.0	2025.0	8014.5	9260.1	9426.6
47.5°	53.1	74.9	109.3	146.7	132.2	163.4	1877.2	8275.7	9551.5	9684.6
50°	42.7	62.4	114.5	129.0	110.3	138.4	1873.0	8567.1	9702.3	9790.8
52.5°	34.3	51.0	96.8	98.9	93.7	121.7	1985.4	8894.8	9856.3	9929.2
55°	29.1	42.7	63.5	72.8	84.3	110.3	2069.7	9399.5	10223.7	10292.3
57.5°	22.9	36.4	48.9	58.3	74.9	100.9	2081.2	9788.7	10688.8	10733.5
59°	19.8	31.2	43.7	52.0	68.7	94.7	2034.3	9812.6	10719.0	10790.8
60°	16.6	28.1	38.5	48.9	63.5	89.5	1983.3	9638.9	10606.6	10686.7
62.5°	12.5	21.9	28.1	39.5	52.0	77.0	1741.9	9032.2	10176.8	10233.0
65°	8.3	15.6	20.8	29.1	40.6	66.6	1419.3	8245.5	9513.0	9638.9
67.5°	5.2	11.4	16.6	21.9	33.3	56.2	1011.4	7070.7	8583.7	8664.9
70°	3.1	7.3	12.5	17.7	26.0	44.7	600.4	5588.9	7141.5	7158.1
72.5°	2.1	5.2	8.3	12.5	20.8	40.6	291.4	3643.1	5214.3	5413.1
75°	1.0	3.1	5.2	9.4	16.6	33.3	139.4	2433.9	3793.9	3851.2
77.5°	0.0	1.0	3.1	6.2	12.5	26.0	81.2	1598.3	2586.9	2646.2
80°	0.0	0.0	2.1	5.2	9.4	16.6	48.9	942.8	1567.1	1596.2
82.5°	0.0	0.0	1.0	4.2	6.2	12.5	25.0	414.1	1026.0	1036.4
85°	0.0	0.0	1.0	4.2	5.2	8.3	9.4	56.2	455.8	464.1
87.5°	0.0	0.0	1.0	5.2	5.2	5.2	5.2	3.1	38.5	47.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)