

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: P455451

Luminaire Tested: **GALN-SA6C-827-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455451
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-SA6C-827-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 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: 22009 lumens
Efficiency: N/A
Efficacy: 68.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

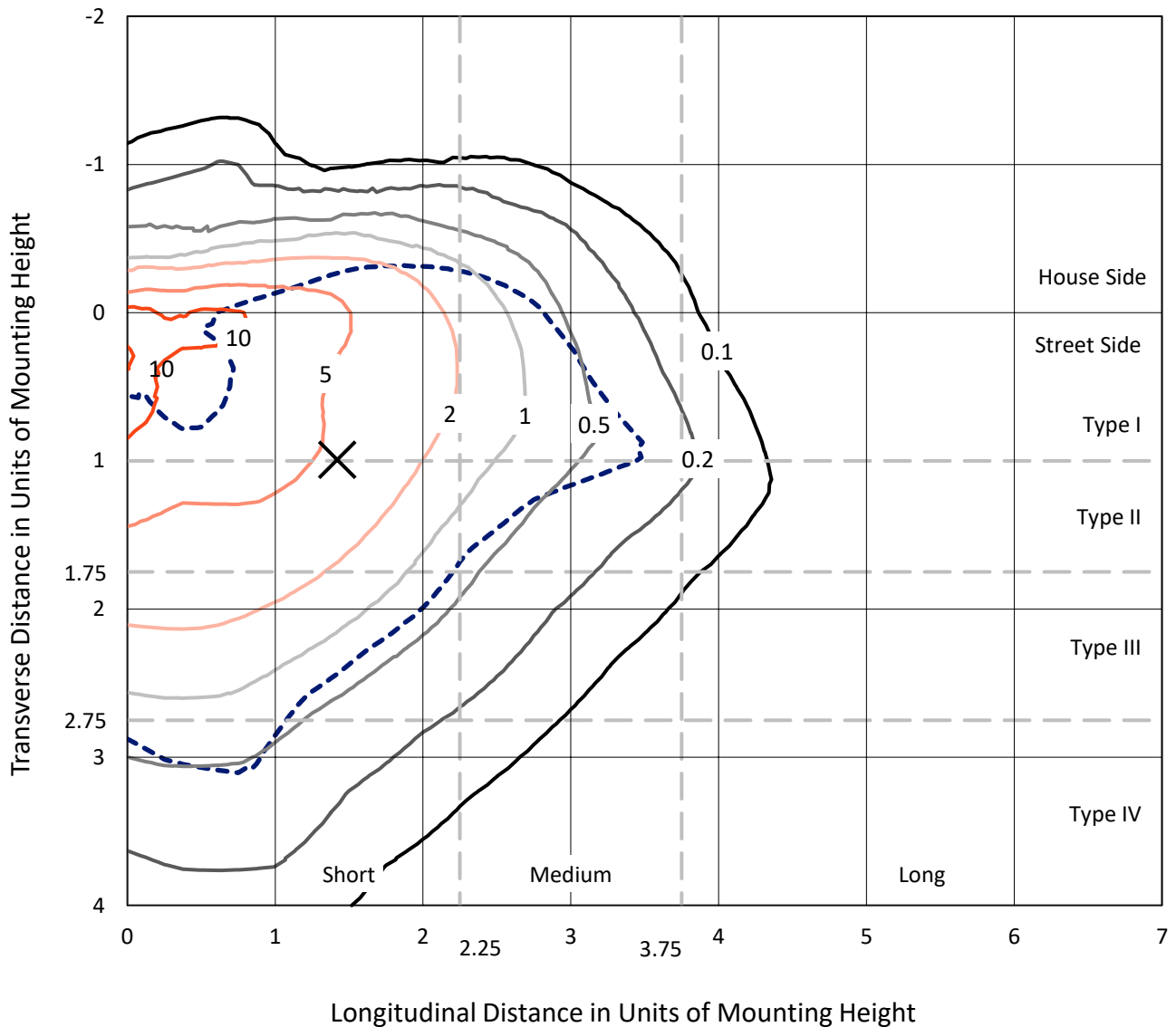
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

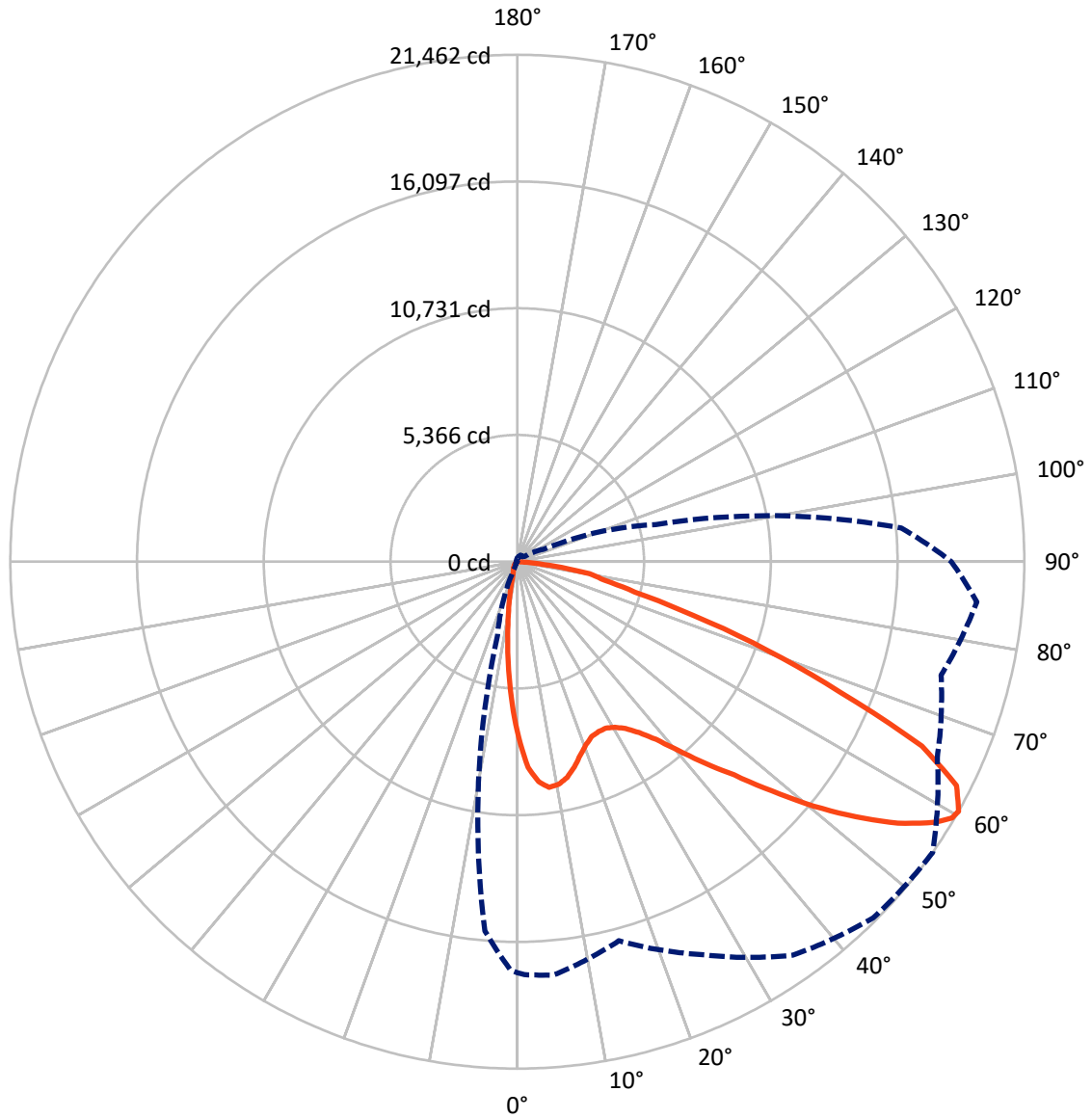
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 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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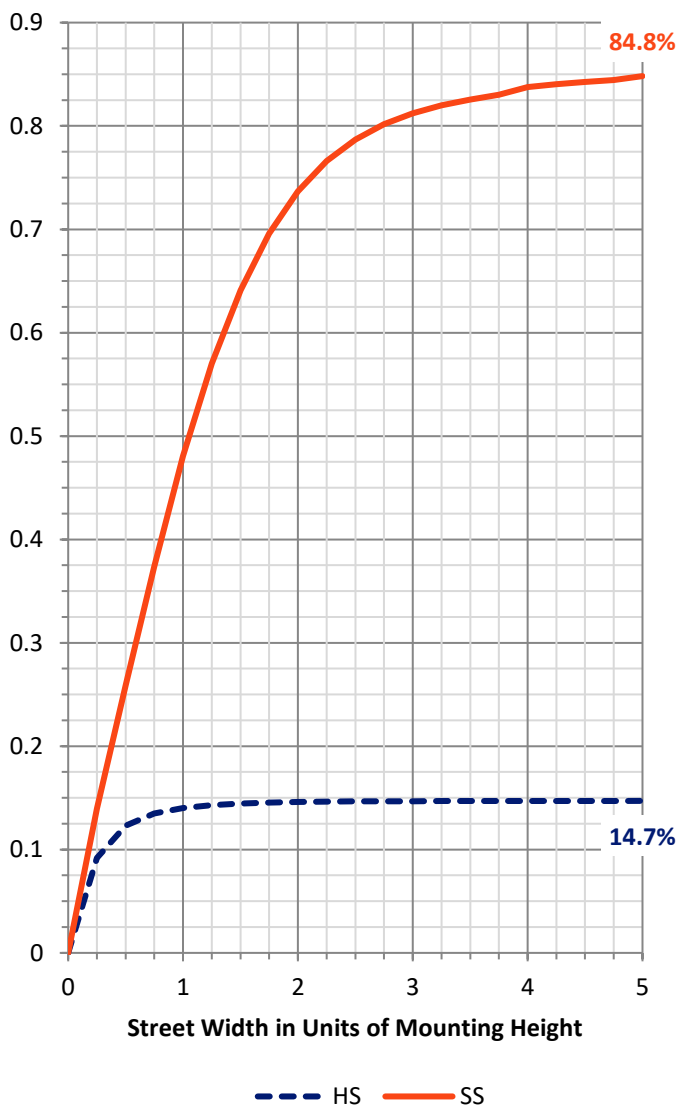
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3266.3	0.0	3266.3
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	18742.7	0.0	18742.7
	% Fixture	85.2	0.0	85.2
Total	Lumens	22009.0	0.0	22009.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	551.8	2.5
10°-20°	1086.7	4.9
20°-30°	1608.5	7.3
30°-40°	2397.7	10.9
40°-50°	3511.4	16.0
50°-60°	5069.4	23.0
60°-70°	5332.8	24.2
70°-80°	2193.7	10.0
80°-90°	256.9	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°	22009.0	100.0
0°-180°	22009.0	100.0

Coefficient of Utilization



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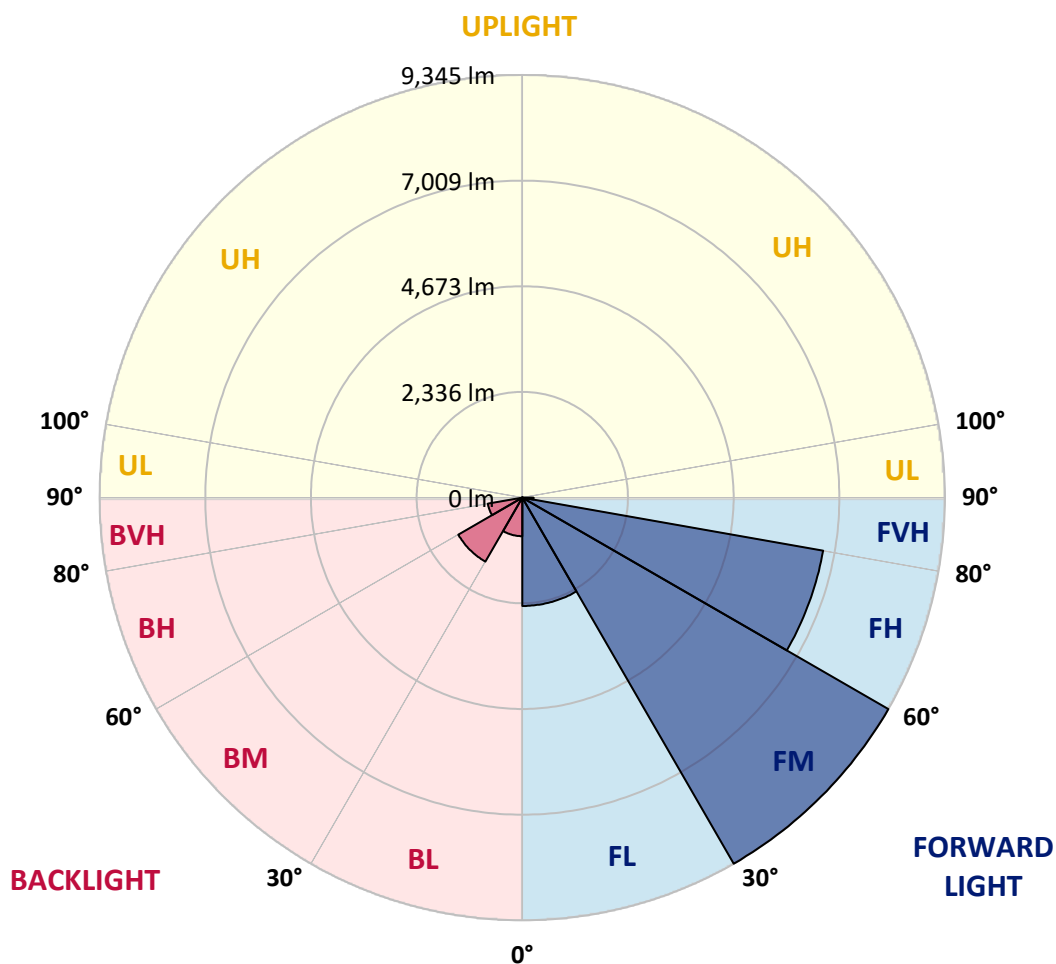
CATALOG NUMBER: GALN-SA6C-827-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2394.9	10.9			
FM	(30°-60°)	9345.1	42.5			
FH	(60°-80°)	6753.4	30.7			G3/7500
FVH	(80°-90°)	249.4	1.1			G3/500
BL	(0°-30°)	852.2	3.9	B2/1000		
BM	(30°-60°)	1633.5	7.4	B2/2500		
BH	(60°-80°)	773.1	3.5	B2/1000		G2/1000
BVH	(80°-90°)	7.6	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7452.2	7452.2	7452.2	7452.2	7452.2	7452.2	7452.2	7452.2	7452.2	7452.2	7452.2
2.5°	8141.7	8128.1	8248.4	8444.9	8643.1	8746.5	8726.1	8717.7	8553.3	8433.0	8180.6
5°	8124.7	8194.2	8409.3	8941.3	9344.5	9539.3	9596.9	9354.6	9034.4	8570.3	7997.7
7.5°	7638.5	7724.9	8075.6	8907.4	9624.0	10047.5	10032.2	9644.3	8983.6	8265.3	7448.8
10°	7035.4	7137.1	7548.7	8558.4	9488.5	10047.5	10078.0	9586.7	8765.1	7843.5	6984.6
12.5°	6610.2	6730.5	7186.2	8233.1	9139.5	9690.0	9725.6	9369.9	8600.8	7680.9	6732.2
15°	6466.2	6579.7	7042.2	8068.8	8768.5	9064.9	9056.5	9019.2	8536.4	7719.8	6745.8
17.5°	6713.6	6806.7	7328.5	8143.4	8421.2	8390.7	8434.7	8614.3	8549.9	8046.8	7172.7
20°	7352.2	7447.1	8007.8	8372.1	8155.2	7962.1	7982.4	8282.3	8675.3	8661.7	7840.1
22.5°	8231.5	8392.4	8900.6	8815.9	8119.6	7696.1	7653.8	8043.4	8888.8	9369.9	8741.4
25°	9344.5	9507.1	9903.5	9524.0	8294.1	7633.5	7594.5	7970.6	9147.9	10061.0	9756.1
27.5°	10279.6	10403.2	10798.0	10213.5	8551.6	7660.6	7596.2	7980.7	9358.0	10648.9	10611.6
30°	11028.4	11119.8	11351.9	10535.4	8773.6	7779.1	7704.6	8129.8	9451.2	10935.2	11304.5
32.5°	11631.4	11785.6	11858.4	10879.3	9092.0	8002.8	7875.7	8416.1	9678.2	11289.2	12031.2
35°	12320.9	12498.8	12405.6	11207.9	9512.2	8351.7	8195.9	8880.3	10022.1	11616.2	12874.9
37.5°	13195.1	13400.0	13035.8	11553.5	9956.0	8876.9	8804.0	9532.5	10543.9	12083.8	13779.5
40°	14099.7	14218.3	13647.4	11973.6	10501.5	9640.9	9710.4	10501.5	11226.6	12644.5	14741.7
42.5°	14806.1	14917.9	14275.9	12326.0	11058.8	10547.2	10836.9	11670.4	12009.2	13218.8	15460.0
45°	15346.5	15441.4	14711.2	12710.6	11811.0	11860.1	12407.3	12874.9	12793.6	13569.5	16014.0
47.5°	15766.7	15848.0	15046.7	13123.9	12937.6	13466.1	14303.0	14501.2	13606.7	13948.9	16515.4
50°	15939.4	15963.2	15151.7	13650.8	14216.6	15512.5	16385.0	16264.7	14538.5	14370.7	17049.1
52.5°	16164.8	16159.7	15451.6	14152.2	15419.4	17342.1	18212.9	17940.1	15592.2	15002.6	17648.8
55°	16756.0	16762.8	16093.6	14863.7	16444.3	18819.4	19751.1	19552.9	16703.5	16069.9	18348.4
57.5°	17474.3	17499.7	17006.7	15695.5	17423.4	19890.0	20899.7	20823.4	18206.1	17257.4	19009.1
59°	17567.4	17618.3	17438.7	16281.6	18004.5	20218.7	21292.7	21367.2	19010.8	18040.1	19366.5
60°	17398.0	17482.7	17564.1	16613.7	18345.0	20337.2	21316.4	21462.1	19615.6	18572.0	19529.2
62.5°	16659.4	16793.3	17201.5	17635.2	18770.2	19967.9	20559.2	20864.1	20364.3	19969.6	19544.4
65°	15692.1	15761.6	16351.1	17816.5	17945.2	18243.4	18426.3	18817.7	19464.8	20508.3	18844.8
67.5°	14106.5	14311.5	15033.1	16764.5	15510.8	15158.5	15112.7	14723.1	16403.6	19224.2	17120.2
70°	11653.5	11744.9	12634.3	13743.9	11706.0	11163.9	11380.7	11235.0	12715.6	16549.3	13779.5
72.5°	8812.5	9019.2	9888.3	10955.5	7965.5	7262.5	7860.5	7806.2	9551.1	13300.1	9466.4
75°	6269.7	6403.6	7511.5	8573.7	5578.6	4726.4	4941.6	5143.2	6667.8	10501.5	5593.8
77.5°	4308.0	4423.2	5255.0	5670.0	4069.1	3898.0	3566.0	3760.8	4369.0	6230.8	3044.2
80°	2598.7	2593.6	3140.8	3242.4	2834.2	3291.6	2761.3	3100.1	2641.0	2666.5	1179.1
82.5°	1687.3	1670.3	1921.1	2093.9	1577.2	1658.5	1113.0	1604.3	1721.2	743.7	372.7
85°	755.6	787.7	923.3	1218.0	691.2	367.6	227.0	493.0	733.5	374.4	0.0
87.5°	77.9	61.0	162.6	296.5	94.9	10.2	33.9	16.9	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°	7452.2	7452.2	7452.2	7452.2	7452.2	7452.2	7452.2	7452.2	7452.2	7452.2	7452.2
2.5°	8063.7	7965.5	7672.4	7398.0	7162.5	6874.5	6688.2	6395.1	6217.2	6163.0	6171.5
5°	7740.2	7457.3	6899.9	6454.4	5958.0	5675.1	5244.8	4831.5	4607.9	4524.8	4487.6
7.5°	7062.6	6759.3	6086.8	5387.1	4855.2	4358.8	4038.6	3674.4	3425.4	3220.4	3184.8
10°	6559.4	6161.3	5327.8	4575.7	4155.5	3782.8	3462.7	3098.4	2805.4	2571.6	2507.2
12.5°	6257.9	5812.3	4882.3	4252.1	3854.0	3471.1	3054.4	2632.6	2332.7	2080.3	1963.4
15°	6203.7	5687.0	4756.9	4020.0	3528.7	3066.3	2512.3	2056.6	1748.3	1509.4	1436.6
17.5°	6530.6	5912.3	4738.3	3777.8	3103.5	2447.9	1871.9	1494.2	1146.9	1013.1	960.5
20°	7113.4	6310.4	4736.6	3496.5	2666.5	1885.5	1314.6	974.1	833.5	769.1	738.6
22.5°	7907.9	6852.5	4826.4	3254.3	2212.4	1390.8	938.5	775.9	694.6	642.1	630.2
25°	8878.6	7655.5	5046.6	3090.0	1865.2	1091.0	774.2	664.1	596.3	572.6	562.4
27.5°	9740.9	8424.6	5288.9	2920.6	1616.1	965.6	718.3	608.2	554.0	535.3	520.1
30°	10484.6	9122.5	5405.8	2696.9	1416.2	884.3	728.4	650.5	579.4	523.5	498.1
32.5°	11104.6	9657.9	5482.0	2493.7	1246.8	723.4	576.0	503.1	470.9	450.6	433.7
35°	11880.5	10237.2	5436.3	2378.5	1160.4	659.0	525.2	433.7	379.5	338.8	321.9
37.5°	12693.6	10816.6	5356.6	2283.6	1121.5	611.6	499.7	411.7	352.4	310.0	288.0
40°	13535.6	11353.6	5263.5	2195.5	1085.9	581.1	484.5	393.0	333.7	288.0	264.3
42.5°	14306.4	11877.1	5226.2	2137.9	1028.3	586.1	472.6	384.6	315.1	267.7	247.3
45°	14929.8	12373.4	5277.0	2107.4	965.6	577.7	476.0	374.4	299.8	254.1	233.8
47.5°	15595.6	13074.8	5441.3	2076.9	904.6	537.0	501.4	372.7	293.1	245.6	223.6
50°	16369.7	13972.6	5817.4	2002.4	830.1	493.0	533.6	371.0	284.6	235.5	213.5
52.5°	17401.4	14992.5	6205.4	1871.9	721.7	450.6	509.9	365.9	267.7	223.6	201.6
55°	18328.1	16066.5	6534.0	1717.8	584.5	389.6	459.1	343.9	238.9	203.3	183.0
57.5°	18710.9	16673.0	6523.8	1504.3	467.6	342.2	377.8	315.1	208.4	179.6	162.6
59°	18570.3	16596.7	6305.3	1346.8	426.9	316.8	313.4	311.7	194.8	162.6	149.1
60°	18372.1	16318.9	6069.8	1268.9	401.5	299.8	288.0	308.3	183.0	152.5	138.9
62.5°	17613.2	15167.0	5288.9	1136.7	367.6	254.1	230.4	260.9	162.6	132.1	120.3
65°	16513.7	13396.7	4477.4	1099.4	357.4	210.1	191.4	186.3	138.9	111.8	101.6
67.5°	14369.0	11336.7	3627.0	1074.0	360.8	176.2	167.7	140.6	115.2	93.2	86.4
70°	11504.4	8839.6	2969.7	1045.2	364.2	144.0	140.6	111.8	93.2	77.9	71.2
72.5°	6989.7	5239.7	2337.8	908.0	354.1	115.2	125.4	84.7	67.8	55.9	52.5
75°	4321.6	3586.3	1450.1	706.4	233.8	84.7	88.1	52.5	45.7	35.6	35.6
77.5°	2503.8	2265.0	518.4	254.1	103.3	50.8	39.0	27.1	25.4	15.2	15.2
80°	1038.5	831.8	179.6	86.4	55.9	23.7	8.5	1.7	0.0	0.0	0.0
82.5°	303.2	269.4	49.1	39.0	16.9	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°	7452.2	7452.2	7452.2	7452.2	7452.2	7452.2	7452.2	7452.2	7452.2	7452.2	7452.2
2.5°	6027.5	5971.6	5946.2	6032.6	5952.9	6054.6	5976.7	6010.5	6110.5	6154.5	6268.0
5°	4511.3	4453.7	4426.6	4557.0	4550.3	4614.6	4607.9	4667.1	4718.0	4604.5	4721.4
7.5°	3142.5	3103.5	3167.9	3269.5	3378.0	3342.4	3342.4	3262.8	3289.9	3272.9	3267.8
10°	2390.3	2256.5	2222.6	2219.2	2259.9	2268.4	2222.6	2112.5	2153.2	2165.0	2236.2
12.5°	1880.4	1777.1	1619.5	1548.4	1529.7	1545.0	1394.2	1297.7	1343.4	1316.3	1385.7
15°	1348.5	1263.8	1170.6	1091.0	1069.0	1038.5	874.1	758.9	745.4	750.5	762.3
17.5°	962.2	904.6	904.6	819.9	774.2	682.7	599.7	548.9	543.8	548.9	557.3
20°	709.8	679.3	675.9	653.9	603.1	542.1	484.5	474.3	470.9	479.4	482.8
22.5°	611.6	579.4	552.3	550.6	503.1	452.3	425.2	411.7	413.4	416.7	425.2
25°	547.2	513.3	484.5	467.6	433.7	398.1	372.7	365.9	365.9	371.0	372.7
27.5°	501.4	459.1	433.7	410.0	379.5	349.0	327.0	321.9	318.5	321.9	330.3
30°	469.3	426.9	394.7	359.1	335.4	306.6	288.0	281.2	279.5	281.2	288.0
32.5°	401.5	376.1	350.7	318.5	289.7	271.1	250.7	238.9	238.9	242.3	249.0
35°	303.2	289.7	288.0	279.5	255.8	235.5	211.8	199.9	199.9	206.7	210.1
37.5°	267.7	242.3	238.9	235.5	225.3	198.2	176.2	166.0	164.3	169.4	176.2
40°	243.9	215.1	199.9	196.5	198.2	167.7	144.0	133.8	133.8	135.5	142.3
42.5°	225.3	191.4	164.3	160.9	167.7	140.6	116.9	106.7	106.7	106.7	115.2
45°	210.1	171.1	138.9	122.0	132.1	115.2	94.9	84.7	81.3	84.7	88.1
47.5°	199.9	155.9	122.0	98.3	98.3	91.5	76.2	64.4	61.0	62.7	67.8
50°	191.4	142.3	103.3	79.6	71.2	72.8	57.6	49.1	45.7	45.7	50.8
52.5°	177.9	128.7	89.8	67.8	54.2	49.1	42.4	35.6	33.9	35.6	39.0
55°	160.9	116.9	77.9	55.9	42.4	33.9	30.5	25.4	23.7	25.4	30.5
57.5°	142.3	98.3	62.7	44.0	28.8	22.0	20.3	16.9	13.6	15.2	18.6
59°	130.4	88.1	54.2	35.6	22.0	15.2	15.2	11.9	8.5	10.2	15.2
60°	125.4	81.3	45.7	30.5	18.6	11.9	11.9	8.5	5.1	6.8	11.9
62.5°	106.7	67.8	35.6	18.6	8.5	1.7	5.1	1.7	0.0	1.7	5.1
65°	89.8	54.2	23.7	8.5	0.0	0.0	0.0	0.0	0.0	0.0	1.7
67.5°	74.5	40.7	11.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	59.3	27.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	40.7	15.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	25.4	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	10.2	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: P455451

CATALOG NUMBER: GALN-SA6C-827-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7452.2	7452.2	7452.2	7452.2	7452.2	7452.2	7452.2	7452.2	7452.2	7452.2
2.5°	6274.8	6517.1	6666.1	6947.4	7235.3	7457.3	7735.1	7984.1	8087.5	8141.7
5°	4839.9	5177.1	5463.4	5892.0	6290.1	6774.6	7265.8	7845.2	8067.1	8124.7
7.5°	3396.6	3740.5	4040.3	4536.7	5104.2	5753.0	6488.3	7223.5	7547.1	7638.5
10°	2453.0	2820.6	3186.5	3682.9	4213.1	4916.2	5681.9	6591.6	6964.3	7035.4
12.5°	1548.4	1943.1	2537.7	3151.0	3711.7	4277.5	5078.8	6068.1	6479.8	6610.2
15°	897.9	1192.6	1641.5	2441.1	3154.3	3903.1	4777.3	5871.6	6332.4	6466.2
17.5°	601.4	703.0	1011.4	1622.9	2564.8	3557.5	4701.0	6032.6	6542.5	6713.6
20°	506.5	552.3	660.7	989.3	1975.3	3249.2	4721.4	6469.6	7138.8	7352.2
22.5°	445.5	487.9	557.3	711.5	1379.0	2866.4	4817.9	7094.7	7958.7	8231.5
25°	393.0	435.4	496.4	589.5	926.7	2424.2	5029.7	8009.5	9044.6	9344.5
27.5°	349.0	387.9	440.5	520.1	713.2	1931.2	5217.7	8900.6	10035.6	10279.6
30°	308.3	340.5	391.3	452.3	592.9	1489.1	5312.6	9679.9	10757.3	11028.4
32.5°	267.7	298.2	347.3	396.4	487.9	1135.0	5246.5	10252.5	11458.6	11631.4
35°	228.7	260.9	301.5	347.3	421.8	916.5	4916.2	10896.2	12185.4	12320.9
37.5°	196.5	223.6	266.0	301.5	381.2	733.5	4516.4	11475.6	13000.2	13195.1
40°	166.0	193.1	235.5	267.7	350.7	577.7	4155.5	12119.3	13859.1	14099.7
42.5°	135.5	167.7	205.0	257.5	301.5	440.5	3718.5	12641.1	14504.6	14806.1
45°	108.4	144.0	184.7	255.8	262.6	335.4	3296.6	13047.7	15075.5	15346.5
47.5°	86.4	122.0	177.9	238.9	215.1	266.0	3056.1	13472.9	15549.8	15766.7
50°	69.5	101.6	186.3	210.1	179.6	225.3	3049.3	13947.2	15795.5	15939.4
52.5°	55.9	83.0	157.5	160.9	152.5	198.2	3232.3	14480.9	16046.2	16164.8
55°	47.4	69.5	103.3	118.6	137.2	179.6	3369.5	15302.5	16644.2	16756.0
57.5°	37.3	59.3	79.6	94.9	122.0	164.3	3388.1	15936.1	17401.4	17474.3
59°	32.2	50.8	71.2	84.7	111.8	154.2	3311.9	15975.0	17450.6	17567.4
60°	27.1	45.7	62.7	79.6	103.3	145.7	3228.9	15692.1	17267.6	17398.0
62.5°	20.3	35.6	45.7	64.4	84.7	125.4	2835.9	14704.5	16567.9	16659.4
65°	13.6	25.4	33.9	47.4	66.1	108.4	2310.7	13423.8	15487.1	15692.1
67.5°	8.5	18.6	27.1	35.6	54.2	91.5	1646.6	11511.2	13974.3	14106.5
70°	5.1	11.9	20.3	28.8	42.4	72.8	977.5	9098.8	11626.4	11653.5
72.5°	3.4	8.5	13.6	20.3	33.9	66.1	474.3	5930.9	8489.0	8812.5
75°	1.7	5.1	8.5	15.2	27.1	54.2	227.0	3962.4	6176.6	6269.7
77.5°	0.0	1.7	5.1	10.2	20.3	42.4	132.1	2602.1	4211.4	4308.0
80°	0.0	0.0	3.4	8.5	15.2	27.1	79.6	1534.8	2551.3	2598.7
82.5°	0.0	0.0	1.7	6.8	10.2	20.3	40.7	674.2	1670.3	1687.3
85°	0.0	0.0	1.7	6.8	8.5	13.6	15.2	91.5	742.0	755.6
87.5°	0.0	0.0	1.7	8.5	8.5	8.5	8.5	5.1	62.7	77.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)