

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: P455480

Luminaire Tested: **GALN-SA6C-830-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455480
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-830-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 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: 23791 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

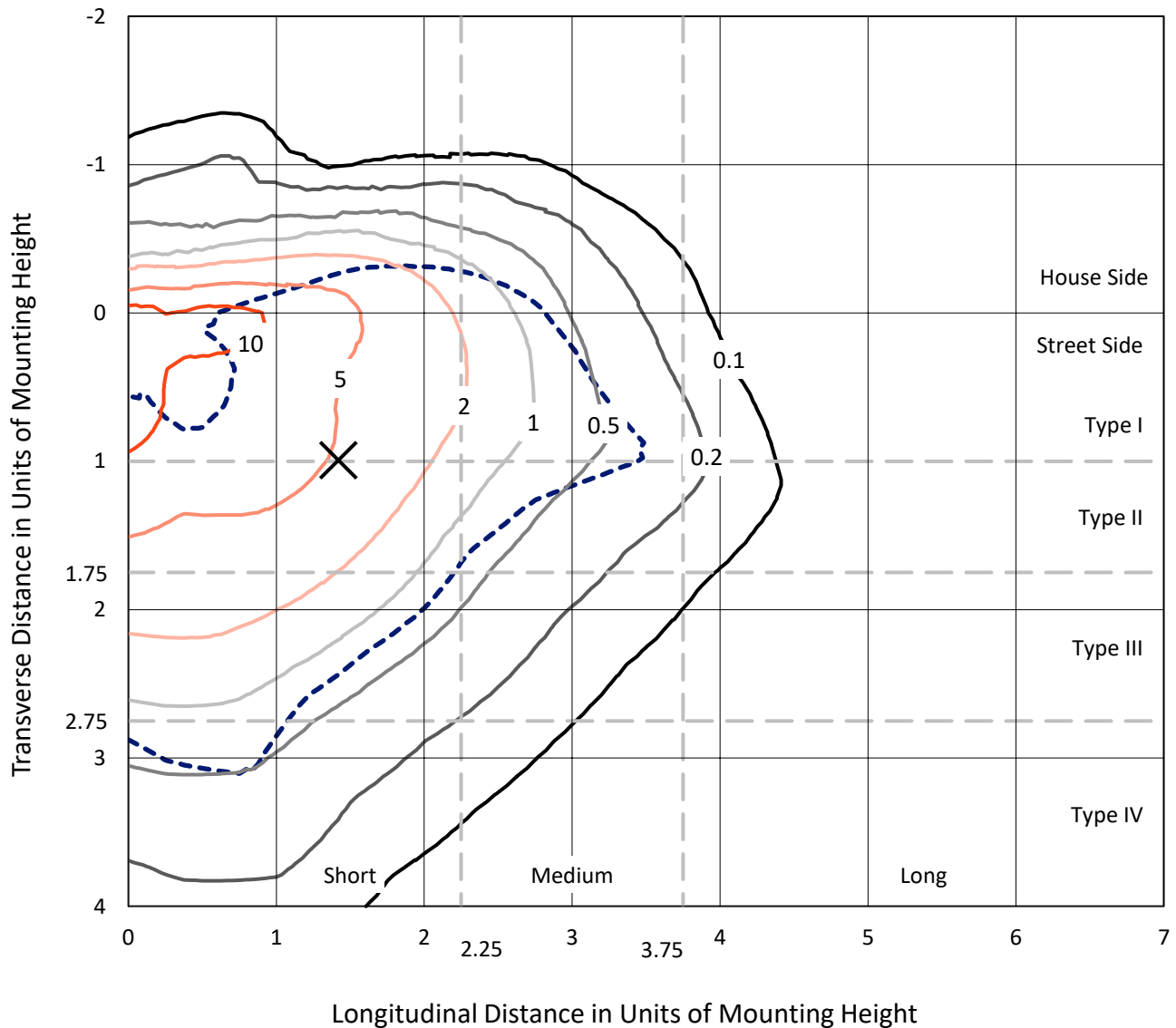
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

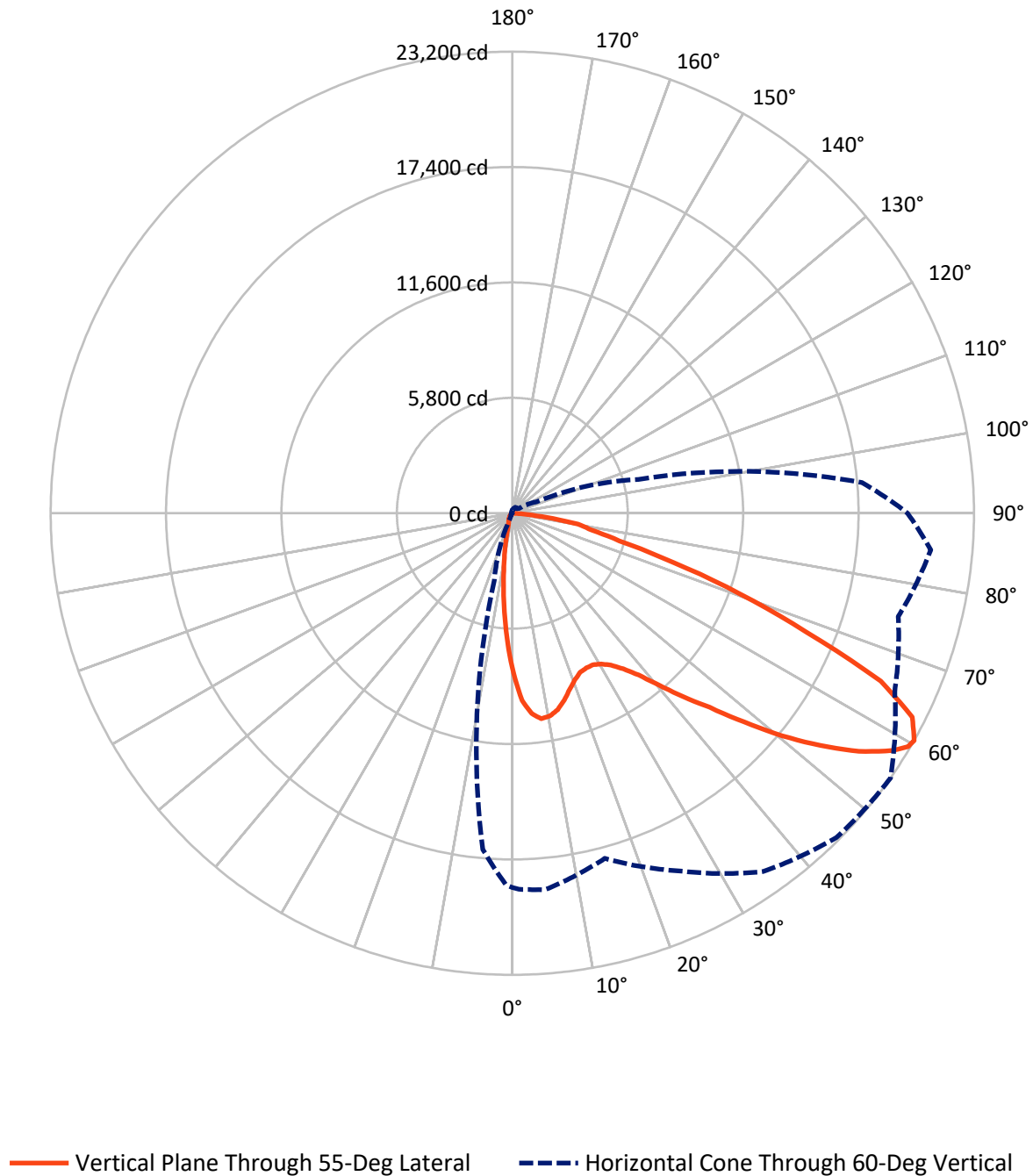
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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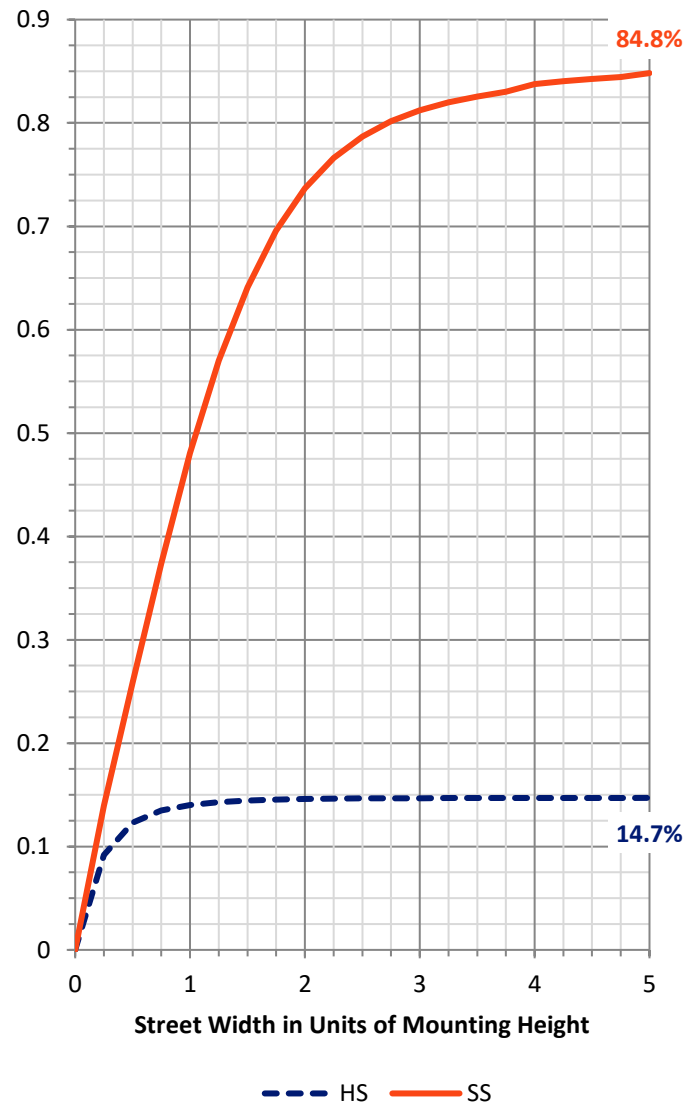
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3530.8	0.0	3530.8
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	20260.2	0.0	20260.2
	% Fixture	85.2	0.0	85.2
Total	Lumens	23791.0	0.0	23791.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	596.5	2.5
10°-20°	1174.7	4.9
20°-30°	1738.8	7.3
30°-40°	2591.8	10.9
40°-50°	3795.7	16.0
50°-60°	5479.9	23.0
60°-70°	5764.5	24.2
70°-80°	2371.3	10.0
80°-90°	277.7	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°	23791.0	100.0
0°-180°	23791.0	100.0

Coefficient of Utilization



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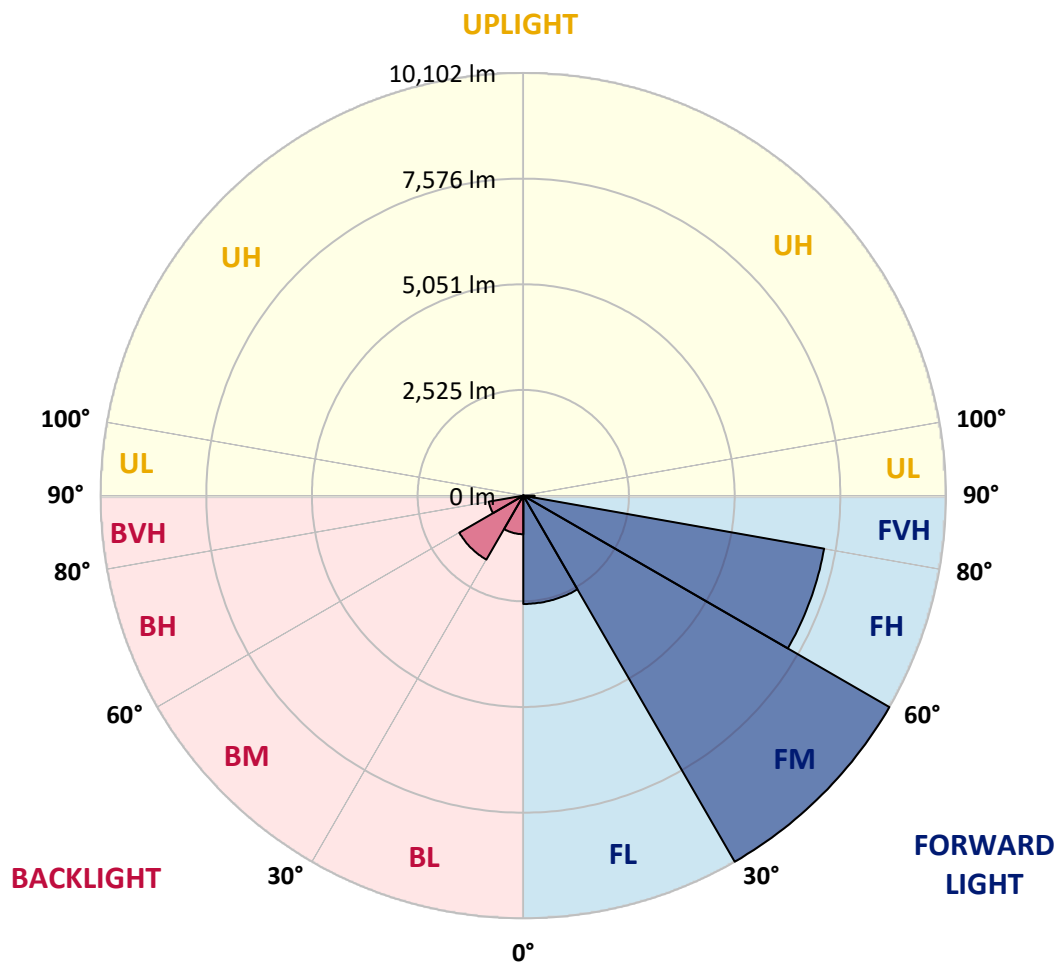
CATALOG NUMBER: GALN-SA6C-830-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2588.8	10.9			
FM	(30°-60°)	10101.7	42.5			
FH	(60°-80°)	7300.2	30.7			G3/7500
FVH	(80°-90°)	269.6	1.1			G3/500
BL	(0°-30°)	921.2	3.9	B2/1000		
BM	(30°-60°)	1765.7	7.4	B2/2500		
BH	(60°-80°)	835.7	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°	8055.6	8055.6	8055.6	8055.6	8055.6	8055.6	8055.6	8055.6	8055.6	8055.6	8055.6
2.5°	8800.9	8786.2	8916.2	9128.7	9342.9	9454.6	9432.6	9423.5	9245.9	9115.8	8843.0
5°	8782.6	8857.6	9090.2	9665.2	10101.0	10311.6	10373.9	10112.0	9765.9	9264.2	8645.2
7.5°	8257.0	8350.4	8729.5	9628.6	10403.2	10861.0	10844.5	10425.2	9711.0	8934.6	8051.9
10°	7605.1	7715.0	8159.9	9251.4	10256.7	10861.0	10894.0	10362.9	9474.8	8478.6	7550.1
12.5°	7145.4	7275.5	7768.1	8899.8	9879.5	10474.6	10513.1	10128.5	9297.1	8302.8	7277.3
15°	6989.8	7112.5	7612.4	8722.1	9478.4	9798.9	9789.7	9749.5	9227.6	8344.9	7291.9
17.5°	7257.2	7357.9	7921.9	8802.7	9103.0	9070.1	9117.7	9311.8	9242.2	8698.3	7753.4
20°	7947.5	8050.1	8656.2	9049.9	8815.5	8606.8	8628.7	8952.9	9377.7	9363.1	8474.9
22.5°	8897.9	9071.9	9621.3	9529.7	8777.1	8319.3	8273.5	8694.7	9608.4	10128.5	9449.1
25°	10101.0	10276.8	10705.4	10295.2	8965.7	8251.5	8209.4	8615.9	9888.6	10875.7	10546.0
27.5°	11111.9	11245.6	11672.2	11040.5	9244.0	8280.8	8211.2	8626.9	10115.7	11511.1	11470.8
30°	11921.3	12020.2	12271.1	11388.4	9483.9	8409.0	8328.4	8788.1	10216.4	11820.6	12219.8
32.5°	12573.2	12739.8	12818.6	11760.1	9828.2	8650.7	8513.4	9097.5	10461.8	12203.3	13005.4
35°	13318.5	13510.8	13410.1	12115.4	10282.3	9027.9	8859.5	9599.3	10833.5	12556.7	13917.3
37.5°	14263.4	14485.0	14091.3	12489.0	10762.1	9595.6	9516.9	10304.3	11397.6	13062.1	14895.2
40°	15241.3	15369.5	14752.4	12943.1	11351.8	10421.5	10496.6	11351.8	12135.5	13668.3	15935.3
42.5°	16004.9	16125.8	15431.7	13324.0	11954.2	11401.2	11714.4	12615.3	12981.6	14289.1	16711.8
45°	16589.1	16691.6	15902.4	13739.7	12767.3	12820.4	13411.9	13917.3	13829.4	14668.1	17310.6
47.5°	17043.2	17131.1	16265.0	14186.5	13985.1	14556.4	15461.0	15675.3	14708.4	15078.3	17852.6
50°	17230.0	17255.7	16378.5	14756.0	15367.7	16768.5	17711.6	17581.6	15715.6	15534.3	18429.5
52.5°	17473.6	17468.1	16702.6	15298.1	16667.8	18746.3	19687.5	19392.7	16854.6	16217.3	19077.7
55°	18112.7	18120.0	17396.7	16067.2	17775.7	20343.1	21350.3	21136.0	18055.9	17371.0	19834.0
57.5°	18889.1	18916.6	18383.7	16966.3	18834.2	21500.4	22591.8	22509.4	19680.2	18654.7	20548.2
59°	18989.8	19044.8	18850.6	17599.9	19462.3	21855.7	23016.7	23097.3	20550.0	19500.7	20934.6
60°	18806.7	18898.3	18986.2	17958.8	19830.4	21983.9	23042.3	23199.8	21203.8	20075.7	21110.4
62.5°	18008.3	18153.0	18594.3	19063.1	20290.0	21584.7	22223.8	22553.4	22013.2	21586.5	21126.9
65°	16962.7	17037.7	17675.0	19259.0	19398.2	19720.5	19918.3	20341.3	21040.8	22168.8	20370.6
67.5°	15248.6	15470.2	16250.3	18121.8	16766.7	16385.8	16336.4	15915.2	17731.8	20780.8	18506.4
70°	12597.0	12695.9	13657.3	14856.7	12653.8	12067.8	12302.2	12144.7	13745.2	17889.3	14895.2
72.5°	9526.0	9749.5	10688.9	11842.5	8610.4	7850.5	8496.9	8438.3	10324.5	14377.0	10232.9
75°	6777.4	6922.0	8119.7	9267.8	6030.2	5109.1	5341.7	5559.6	7207.7	11351.8	6046.7
77.5°	4656.8	4781.3	5680.5	6129.1	4398.6	4213.7	3854.7	4065.3	4722.7	6735.3	3290.7
80°	2809.1	2803.6	3395.1	3505.0	3063.6	3558.1	2984.9	3351.1	2854.9	2882.4	1274.5
82.5°	1823.9	1805.6	2076.6	2263.4	1704.9	1792.8	1203.1	1734.2	1860.5	803.9	402.9
85°	816.7	851.5	998.0	1316.7	747.1	397.4	245.4	532.9	792.9	404.7	0.0
87.5°	84.2	65.9	175.8	320.5	102.5	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°	8055.6	8055.6	8055.6	8055.6	8055.6	8055.6	8055.6	8055.6	8055.6	8055.6	8055.6
2.5°	8716.6	8610.4	8293.6	7997.0	7742.4	7431.1	7229.7	6912.9	6720.6	6662.0	6671.2
5°	8366.9	8061.1	7458.6	6977.0	6440.4	6134.6	5669.5	5222.7	4980.9	4891.2	4850.9
7.5°	7634.4	7306.6	6579.6	5823.3	5248.3	4711.7	4365.6	3971.9	3702.7	3481.2	3442.7
10°	7090.5	6660.2	5759.2	4946.1	4492.0	4089.1	3743.0	3349.3	3032.5	2779.8	2710.2
12.5°	6764.6	6282.9	5277.6	4596.4	4166.0	3752.2	3301.7	2845.7	2521.6	2248.7	2122.4
15°	6706.0	6147.4	5142.1	4345.5	3814.4	3314.5	2715.7	2223.1	1889.8	1631.6	1552.9
17.5°	7059.4	6391.0	5121.9	4083.6	3354.8	2646.1	2023.5	1615.1	1239.7	1095.1	1038.3
20°	7689.3	6821.3	5120.1	3779.7	2882.4	2038.2	1421.0	1053.0	901.0	831.4	798.4
22.5°	8548.2	7407.3	5217.2	3517.8	2391.6	1503.4	1014.5	838.7	750.8	694.0	681.2
25°	9597.5	8275.3	5455.2	3340.2	2016.2	1179.3	836.9	717.8	644.6	619.0	608.0
27.5°	10529.6	9106.7	5717.1	3157.0	1747.0	1043.8	776.4	657.4	598.8	578.7	562.2
30°	11333.5	9861.2	5843.4	2915.3	1530.9	955.9	787.4	703.2	626.3	565.8	538.4
32.5°	12003.7	10439.8	5925.8	2695.6	1347.8	781.9	622.6	543.9	509.1	487.1	468.8
35°	12842.4	11066.1	5876.4	2571.0	1254.4	712.3	567.7	468.8	410.2	366.2	347.9
37.5°	13721.4	11692.4	5790.3	2468.5	1212.3	661.1	540.2	445.0	380.9	335.1	311.3
40°	14631.5	12272.9	5689.6	2373.3	1173.8	628.1	523.7	424.8	360.8	311.3	285.7
42.5°	15464.7	12838.7	5649.3	2311.0	1111.6	633.6	510.9	415.7	340.6	289.3	267.4
45°	16138.6	13375.3	5704.3	2278.0	1043.8	624.4	514.6	404.7	324.1	274.7	252.7
47.5°	16858.3	14133.4	5881.9	2245.1	977.9	580.5	542.0	402.9	316.8	265.5	241.7
50°	17695.1	15104.0	6288.4	2164.5	897.3	532.9	576.8	401.0	307.6	254.5	230.7
52.5°	18810.4	16206.4	6707.8	2023.5	780.1	487.1	551.2	395.5	289.3	241.7	217.9
55°	19812.0	17367.4	7063.0	1856.9	631.8	421.2	496.3	371.7	258.2	219.7	197.8
57.5°	20225.9	18022.9	7052.1	1626.1	505.4	369.9	408.4	340.6	225.2	194.1	175.8
59°	20073.9	17940.5	6815.8	1455.8	461.5	342.4	338.8	336.9	210.6	175.8	161.1
60°	19859.7	17640.2	6561.3	1371.6	434.0	324.1	311.3	333.3	197.8	164.8	150.2
62.5°	19039.3	16395.0	5717.1	1228.8	397.4	274.7	249.0	282.0	175.8	142.8	130.0
65°	17850.8	14481.3	4839.9	1188.5	386.4	227.1	206.9	201.4	150.2	120.9	109.9
67.5°	15532.5	12254.6	3920.7	1161.0	390.1	190.4	181.3	152.0	124.5	100.7	93.4
70°	12435.9	9555.3	3210.1	1129.9	393.7	155.7	152.0	120.9	100.7	84.2	76.9
72.5°	7555.6	5664.0	2527.1	981.5	382.7	124.5	135.5	91.6	73.2	60.4	56.8
75°	4671.5	3876.7	1567.5	763.6	252.7	91.6	95.2	56.8	49.4	38.5	38.5
77.5°	2706.6	2448.4	560.4	274.7	111.7	54.9	42.1	29.3	27.5	16.5	16.5
80°	1122.5	899.1	194.1	93.4	60.4	25.6	9.2	1.8	0.0	0.0	0.0
82.5°	327.8	291.2	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°	8055.6	8055.6	8055.6	8055.6	8055.6	8055.6	8055.6	8055.6	8055.6	8055.6	8055.6
2.5°	6515.5	6455.1	6427.6	6521.0	6434.9	6544.8	6460.6	6497.2	6605.2	6652.8	6775.5
5°	4876.6	4814.3	4785.0	4926.0	4918.7	4988.3	4980.9	5045.0	5100.0	4977.3	5103.6
7.5°	3396.9	3354.8	3424.4	3534.3	3651.5	3613.0	3613.0	3526.9	3556.2	3537.9	3532.4
10°	2583.9	2439.2	2402.6	2398.9	2442.9	2452.0	2402.6	2283.5	2327.5	2340.3	2417.2
12.5°	2032.7	1921.0	1750.7	1673.7	1653.6	1670.1	1507.1	1402.7	1452.2	1422.9	1497.9
15°	1457.7	1366.1	1265.4	1179.3	1155.5	1122.5	944.9	820.4	805.7	811.2	824.1
17.5°	1040.1	977.9	977.9	886.3	836.9	738.0	648.3	593.3	587.8	593.3	602.5
20°	767.3	734.3	730.7	706.9	651.9	586.0	523.7	512.7	509.1	518.2	521.9
22.5°	661.1	626.3	597.0	595.1	543.9	488.9	459.6	445.0	446.8	450.5	459.6
25°	591.5	554.9	523.7	505.4	468.8	430.3	402.9	395.5	395.5	401.0	402.9
27.5°	542.0	496.3	468.8	443.2	410.2	377.2	353.4	347.9	344.3	347.9	357.1
30°	507.2	461.5	426.7	388.2	362.6	331.5	311.3	304.0	302.2	304.0	311.3
32.5°	434.0	406.5	379.1	344.3	313.1	293.0	271.0	258.2	258.2	261.9	269.2
35°	327.8	313.1	311.3	302.2	276.5	254.5	228.9	216.1	216.1	223.4	227.1
37.5°	289.3	261.9	258.2	254.5	243.6	214.3	190.4	179.5	177.6	183.1	190.4
40°	263.7	232.6	216.1	212.4	214.3	181.3	155.7	144.7	144.7	146.5	153.8
42.5°	243.6	206.9	177.6	174.0	181.3	152.0	126.4	115.4	115.4	115.4	124.5
45°	227.1	185.0	150.2	131.8	142.8	124.5	102.5	91.6	87.9	91.6	95.2
47.5°	216.1	168.5	131.8	106.2	106.2	98.9	82.4	69.6	65.9	67.8	73.2
50°	206.9	153.8	111.7	86.1	76.9	78.7	62.3	53.1	49.4	49.4	54.9
52.5°	192.3	139.2	97.1	73.2	58.6	53.1	45.8	38.5	36.6	38.5	42.1
55°	174.0	126.4	84.2	60.4	45.8	36.6	33.0	27.5	25.6	27.5	33.0
57.5°	153.8	106.2	67.8	47.6	31.1	23.8	22.0	18.3	14.6	16.5	20.1
59°	141.0	95.2	58.6	38.5	23.8	16.5	16.5	12.8	9.2	11.0	16.5
60°	135.5	87.9	49.4	33.0	20.1	12.8	12.8	9.2	5.5	7.3	12.8
62.5°	115.4	73.2	38.5	20.1	9.2	1.8	5.5	1.8	0.0	1.8	5.5
65°	97.1	58.6	25.6	9.2	0.0	0.0	0.0	0.0	0.0	0.0	1.8
67.5°	80.6	43.9	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°	43.9	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: P455480

CATALOG NUMBER: GALN-SA6C-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8055.6	8055.6	8055.6	8055.6	8055.6	8055.6	8055.6	8055.6	8055.6	8055.6
2.5°	6782.9	7044.7	7205.9	7509.9	7821.2	8061.1	8361.4	8630.6	8742.3	8800.9
5°	5231.8	5596.2	5905.7	6369.0	6799.3	7323.1	7854.1	8480.4	8720.3	8782.6
7.5°	3671.6	4043.3	4367.5	4904.0	5517.5	6218.8	7013.6	7808.4	8158.1	8257.0
10°	2651.6	3049.0	3444.5	3981.1	4554.3	5314.2	6141.9	7125.3	7528.2	7605.1
12.5°	1673.7	2100.4	2743.2	3406.1	4012.2	4623.8	5490.0	6559.5	7004.4	7145.4
15°	970.6	1289.2	1774.5	2638.8	3409.7	4219.1	5164.1	6347.0	6845.1	6989.8
17.5°	650.1	760.0	1093.2	1754.3	2772.5	3845.6	5081.7	6521.0	7072.2	7257.2
20°	547.5	597.0	714.2	1069.4	2135.2	3512.3	5103.6	6993.5	7716.8	7947.5
22.5°	481.6	527.4	602.5	769.1	1490.6	3098.4	5208.0	7669.2	8603.1	8897.9
25°	424.8	470.6	536.5	637.3	1001.7	2620.5	5436.9	8658.0	9776.9	10101.0
27.5°	377.2	419.4	476.1	562.2	770.9	2087.6	5640.2	9621.3	10848.2	11111.9
30°	333.3	368.1	423.0	488.9	640.9	1609.6	5742.7	10463.6	11628.3	11921.3
32.5°	289.3	322.3	375.4	428.5	527.4	1226.9	5671.3	11082.6	12386.4	12573.2
35°	247.2	282.0	326.0	375.4	456.0	990.7	5314.2	11778.5	13172.0	13318.5
37.5°	212.4	241.7	287.5	326.0	412.0	792.9	4882.1	12404.7	14052.8	14263.4
40°	179.5	208.8	254.5	289.3	379.1	624.4	4492.0	13100.6	14981.3	15241.3
42.5°	146.5	181.3	221.6	278.3	326.0	476.1	4019.5	13664.6	15679.0	16004.9
45°	117.2	155.7	199.6	276.5	283.8	362.6	3563.6	14104.1	16296.1	16589.1
47.5°	93.4	131.8	192.3	258.2	232.6	287.5	3303.5	14563.7	16808.8	17043.2
50°	75.1	109.9	201.4	227.1	194.1	243.6	3296.2	15076.5	17074.4	17230.0
52.5°	60.4	89.7	170.3	174.0	164.8	214.3	3494.0	15653.3	17345.4	17473.6
55°	51.3	75.1	111.7	128.2	148.3	194.1	3642.3	16541.5	17991.8	18112.7
57.5°	40.3	64.1	86.1	102.5	131.8	177.6	3662.5	17226.4	18810.4	18889.1
59°	34.8	54.9	76.9	91.6	120.9	166.6	3580.0	17268.5	18863.5	18989.8
60°	29.3	49.4	67.8	86.1	111.7	157.5	3490.3	16962.7	18665.7	18806.7
62.5°	22.0	38.5	49.4	69.6	91.6	135.5	3065.5	15895.0	17909.4	18008.3
65°	14.6	27.5	36.6	51.3	71.4	117.2	2497.8	14510.6	16741.1	16962.7
67.5°	9.2	20.1	29.3	38.5	58.6	98.9	1780.0	12443.2	15105.8	15248.6
70°	5.5	12.8	22.0	31.1	45.8	78.7	1056.6	9835.5	12567.7	12597.0
72.5°	3.7	9.2	14.6	22.0	36.6	71.4	512.7	6411.1	9176.3	9526.0
75°	1.8	5.5	9.2	16.5	29.3	58.6	245.4	4283.2	6676.7	6777.4
77.5°	0.0	1.8	5.5	11.0	22.0	45.8	142.8	2812.8	4552.4	4656.8
80°	0.0	0.0	3.7	9.2	16.5	29.3	86.1	1659.1	2757.8	2809.1
82.5°	0.0	0.0	1.8	7.3	11.0	22.0	43.9	728.8	1805.6	1823.9
85°	0.0	0.0	1.8	7.3	9.2	14.6	16.5	98.9	802.1	816.7
87.5°	0.0	0.0	1.8	9.2	9.2	9.2	9.2	5.5	67.8	84.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)