

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: P454554

Luminaire Tested: **GALN-SA5C-830-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454554
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5C-830-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20092 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - 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

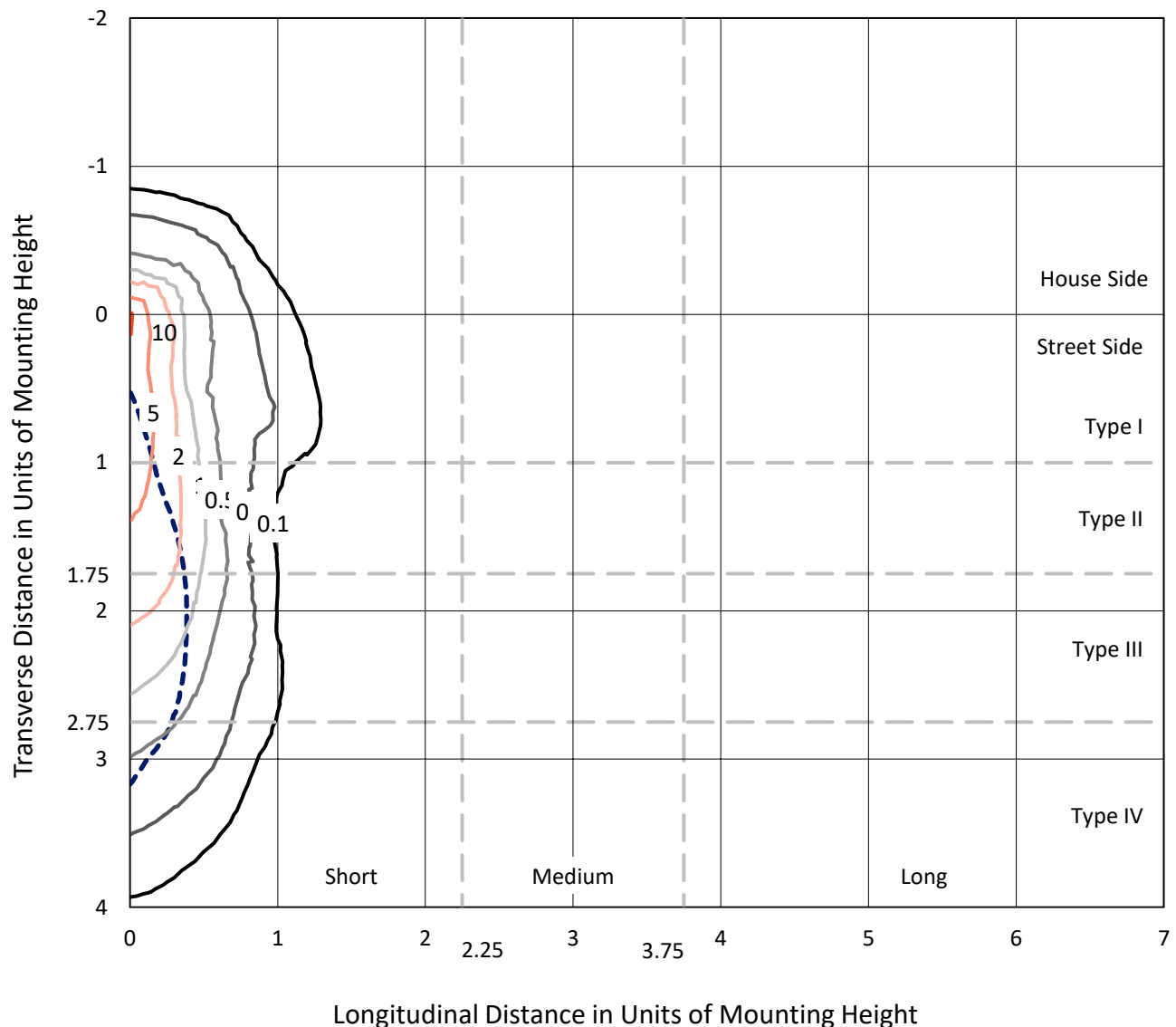


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

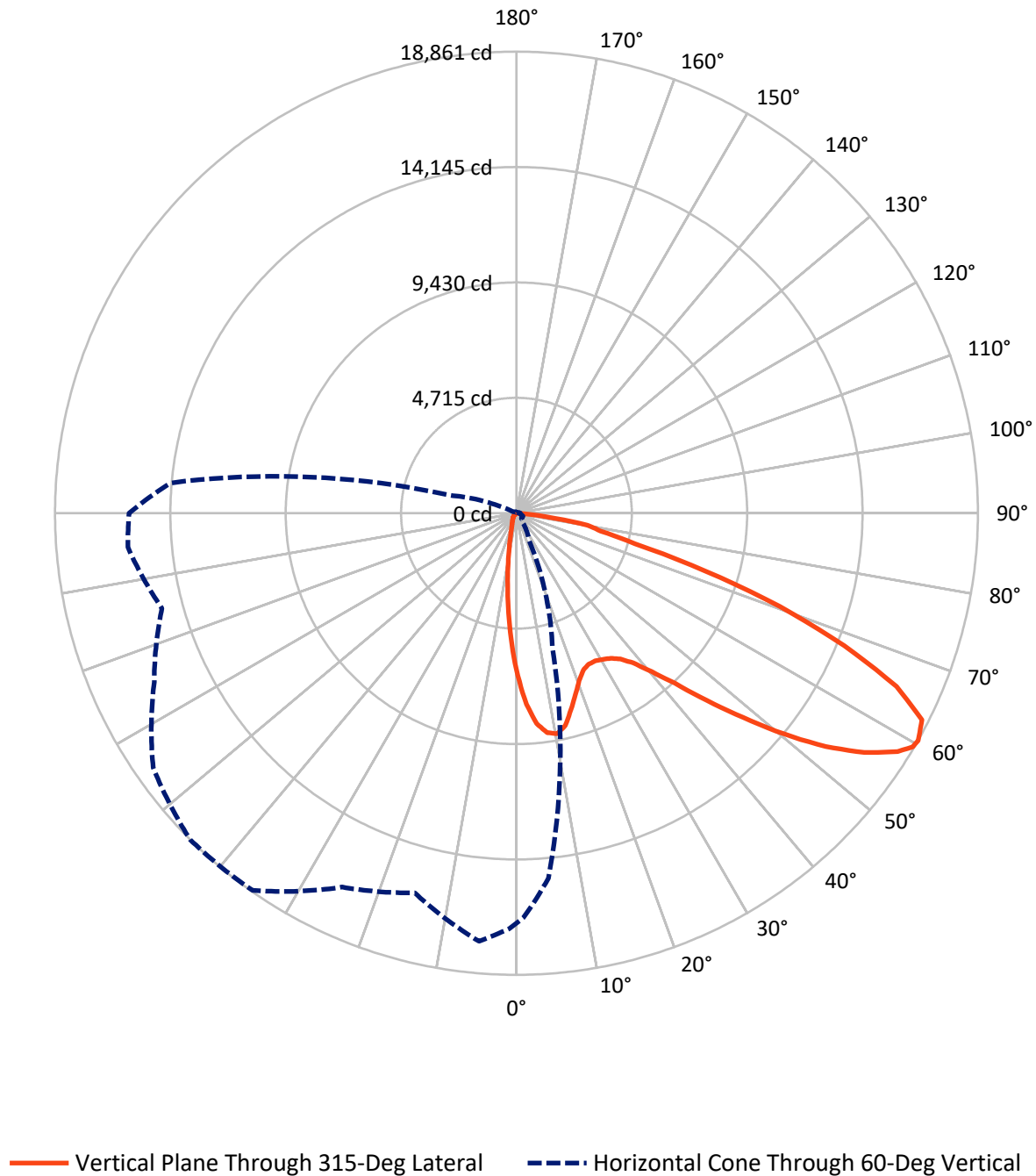


Based on 25 foot mounting height. Maximum calculated value = 10.6 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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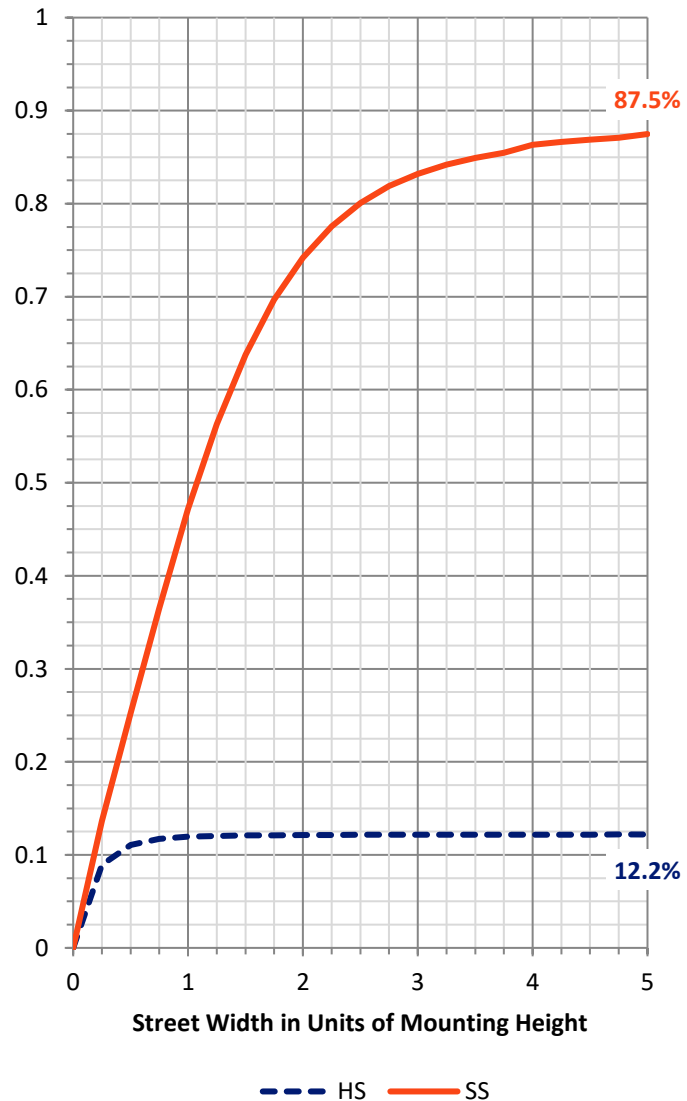
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2478.1	0.0	2478.1
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	17613.9	0.0	17613.9
	% Fixture	87.7	0.0	87.7
Total	Lumens	20092.0	0.0	20092.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	493.9	2.5
10°-20°	980.9	4.9
20°-30°	1438.3	7.2
30°-40°	2139.0	10.6
40°-50°	3112.9	15.5
50°-60°	4489.0	22.3
60°-70°	4937.5	24.6
70°-80°	2211.6	11.0
80°-90°	289.0	1.4
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°	20092.0	100.0
0°-180°	20092.0	100.0

Coefficient of Utilization



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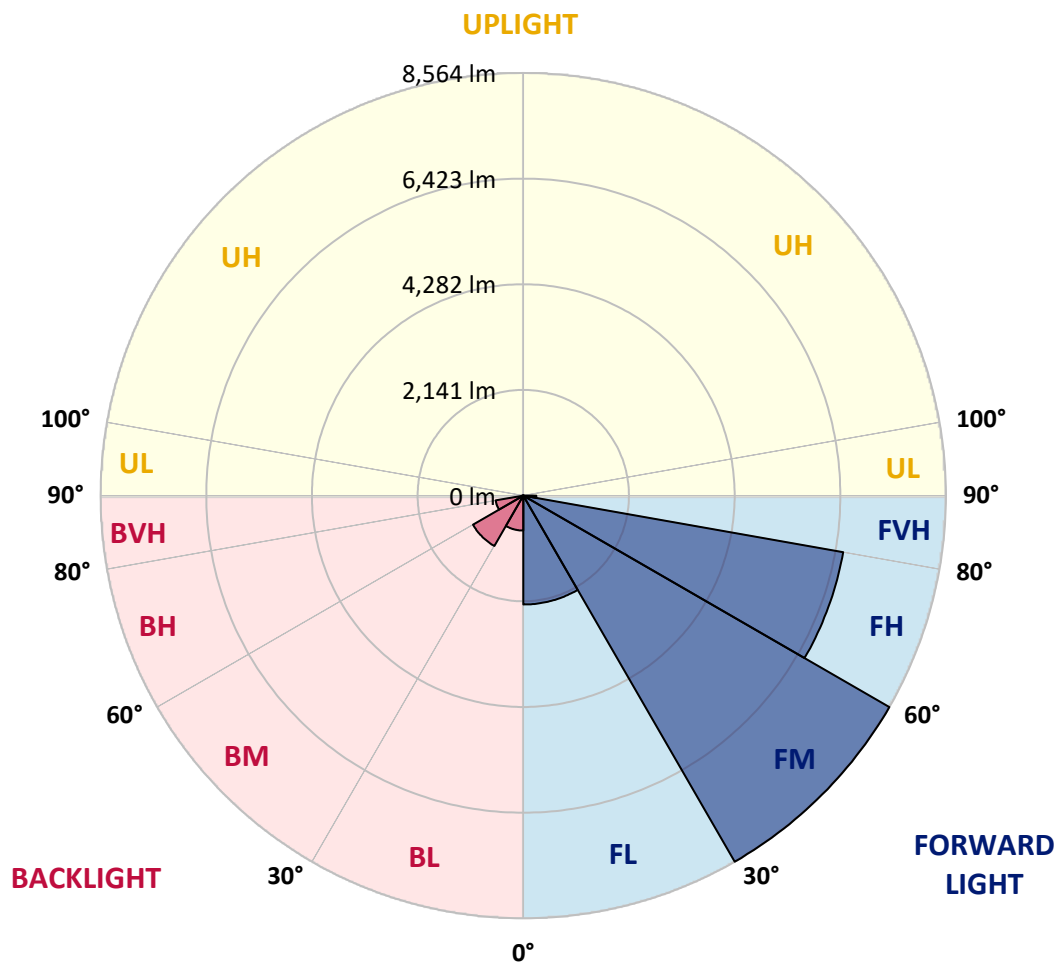
CATALOG NUMBER: GALN-SA5C-830-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2205.0	11.0			
FM	(30°-60°)	8563.8	42.6			
FH	(60°-80°)	6580.7	32.8			G3/7500
FVH	(80°-90°)	264.3	1.3			G3/500
BL	(0°-30°)	708.1	3.5	B2/1000		
BM	(30°-60°)	1177.1	5.9	B2/2500		
BH	(60°-80°)	568.3	2.8	B2/1000		G2/1000
BVH	(80°-90°)	24.7	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6640.7	6640.7	6640.7	6640.7	6640.7	6640.7	6640.7	6640.7	6640.7	6640.7	6640.7
2.5°	7300.5	7268.4	7195.1	6972.1	6778.2	6524.6	6268.0	6066.4	5942.7	5715.2	5611.3
5°	7072.9	7088.2	6875.9	6417.7	5907.6	5559.4	5179.1	4876.7	4543.7	4332.9	4111.5
7.5°	6478.8	6448.3	6217.6	5579.2	4959.1	4455.1	3974.0	3583.0	3337.1	3140.1	2975.2
10°	5970.2	5947.3	5652.5	4830.8	4164.9	3787.7	3462.4	3120.3	2856.0	2567.4	2336.8
12.5°	5651.0	5599.1	5260.0	4401.7	3859.5	3508.2	3153.9	2798.0	2433.0	2141.3	1861.8
15°	5544.1	5469.3	5092.0	4253.5	3664.0	3218.0	2773.6	2364.3	1944.3	1622.0	1411.2
17.5°	5738.1	5614.3	5212.7	4227.6	3430.3	2839.2	2292.5	1759.4	1322.6	1076.7	946.9
20°	6182.5	6040.5	5518.1	4201.6	3170.7	2414.7	1742.6	1243.2	914.9	780.4	708.7
22.5°	6842.3	6646.8	5970.2	4242.8	2930.9	2000.8	1258.5	878.2	727.0	643.0	592.6
25°	7635.0	7471.5	6542.9	4389.5	2741.5	1675.4	972.9	717.8	612.4	560.5	522.3
27.5°	8504.0	8242.8	7283.7	4565.1	2568.9	1423.4	853.8	641.5	545.2	497.9	478.0
30°	9122.6	8919.4	7903.8	4687.3	2353.6	1234.1	780.4	632.3	546.8	490.3	453.6
32.5°	9733.5	9473.8	8423.1	4743.8	2196.3	1102.7	675.1	551.4	479.6	450.6	413.9
35°	10387.2	10115.3	8940.8	4713.2	2078.7	1015.7	612.4	491.8	410.8	362.0	325.3
37.5°	11048.5	10761.3	9455.5	4603.3	2005.3	980.5	563.6	467.4	387.9	337.5	297.8
40°	11833.5	11450.2	9938.1	4513.2	1929.0	962.2	531.5	452.1	371.1	317.7	278.0
42.5°	12475.0	12109.9	10394.8	4465.8	1877.0	919.4	531.5	439.9	360.4	300.9	259.6
45°	13082.8	12704.1	10888.1	4504.0	1855.7	866.0	537.6	438.3	352.8	288.7	247.4
47.5°	13591.4	13263.1	11395.2	4647.6	1828.2	807.9	505.5	459.7	348.2	278.0	235.2
50°	14191.7	13874.0	12065.7	4937.8	1779.3	749.9	465.8	494.8	346.7	268.8	224.5
52.5°	15037.8	14694.1	12991.2	5267.7	1701.4	661.3	429.2	490.3	340.6	253.5	213.8
55°	16071.8	15793.8	14063.4	5663.2	1594.5	562.0	371.1	435.3	322.3	227.6	195.5
57.5°	16734.6	16497.9	14866.7	5834.3	1431.1	459.7	326.8	365.0	294.8	203.1	174.1
59°	16812.5	16598.7	15034.7	5777.8	1324.2	420.0	305.5	313.1	287.1	189.4	161.9
60°	16746.8	16525.4	14967.5	5667.8	1224.9	392.5	287.1	278.0	288.7	181.7	152.7
62.5°	16325.3	15946.5	14315.4	5110.3	1070.6	360.4	255.1	227.6	255.1	163.4	135.9
65°	15511.2	14943.1	13024.8	4325.3	1009.5	342.1	216.9	190.9	194.0	143.6	117.6
67.5°	14089.3	13373.0	11306.6	3514.3	983.6	343.6	183.3	171.1	149.7	122.2	103.9
70°	11841.1	11126.4	9072.2	2891.2	971.4	343.6	155.8	146.6	125.2	102.3	90.1
72.5°	8391.0	7621.2	6119.9	2271.1	875.1	342.1	132.9	132.9	102.3	85.5	73.3
75°	4740.7	4746.8	3847.3	1606.7	727.0	282.6	106.9	105.4	74.8	65.7	55.0
77.5°	2762.9	2714.0	2593.4	690.3	337.5	128.3	74.8	64.1	51.9	47.3	39.7
80°	1420.4	1168.4	1137.8	250.5	120.7	80.9	51.9	36.7	33.6	30.5	27.5
82.5°	420.0	421.5	375.7	100.8	67.2	53.5	26.0	19.9	18.3	16.8	16.8
85°	29.0	18.3	21.4	30.5	41.2	21.4	1.5	4.6	4.6	6.1	7.6
87.5°	3.1	1.5	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6640.7	6640.7	6640.7	6640.7	6640.7	6640.7	6640.7	6640.7	6640.7	6640.7	6640.7
2.5°	5496.7	5563.9	5438.7	5441.8	5337.9	5371.5	5249.3	5289.0	5217.3	5272.2	5434.1
5°	4135.9	4151.2	4050.4	4018.3	4033.6	4096.2	4120.7	4009.2	4056.5	3963.3	3957.2
7.5°	2914.1	2932.4	2874.4	2866.7	2976.7	2950.7	2998.1	2883.5	2775.1	2822.4	2735.4
10°	2263.5	2187.1	2068.0	2034.4	2013.0	2026.7	2026.7	1922.9	1907.6	1866.4	1929.0
12.5°	1786.9	1693.8	1580.8	1428.0	1389.8	1386.8	1330.3	1238.6	1209.6	1174.5	1226.4
15°	1298.2	1260.0	1165.3	1079.8	992.7	975.9	884.3	809.5	710.2	696.4	691.9
17.5°	913.3	856.8	855.3	806.4	756.0	722.4	636.9	551.4	513.2	508.6	508.6
20°	684.2	664.4	632.3	626.2	610.9	572.7	496.4	450.6	432.2	433.8	439.9
22.5°	575.8	562.0	533.0	519.3	513.2	479.6	423.1	392.5	383.4	383.4	384.9
25°	514.7	502.5	470.4	449.0	441.4	417.0	372.7	349.8	342.1	342.1	342.1
27.5°	468.9	453.6	420.0	401.7	387.9	360.4	333.0	310.0	302.4	302.4	303.9
30°	436.8	420.0	389.5	365.0	343.6	319.2	296.3	276.4	267.3	265.7	267.3
32.5°	394.0	378.8	348.2	333.0	308.5	279.5	261.2	242.8	233.7	235.2	233.7
35°	307.0	302.4	281.0	285.6	271.9	247.4	230.6	210.8	200.1	198.5	201.6
37.5°	279.5	261.2	236.7	238.3	233.7	224.5	197.0	175.6	168.0	168.0	169.5
40°	258.1	239.8	212.3	198.5	200.1	200.1	171.1	148.1	140.5	139.0	142.0
42.5°	239.8	221.5	190.9	168.0	161.9	169.5	145.1	122.2	114.5	111.5	114.5
45°	227.6	207.7	172.6	146.6	128.3	137.5	119.1	100.8	91.6	91.6	90.1
47.5°	215.3	197.0	158.8	126.8	106.9	102.3	97.7	80.9	71.8	70.3	71.8
50°	204.7	186.3	143.6	110.0	90.1	79.4	79.4	64.1	58.0	55.0	56.5
52.5°	194.0	174.1	129.8	97.7	77.9	64.1	56.5	51.9	47.3	45.8	47.3
55°	178.7	158.8	116.1	84.0	67.2	53.5	44.3	42.8	39.7	36.7	39.7
57.5°	160.4	142.0	102.3	71.8	53.5	41.2	36.7	35.1	32.1	30.5	30.5
59°	149.7	132.9	94.7	62.6	47.3	36.7	33.6	32.1	29.0	26.0	27.5
60°	143.6	129.8	90.1	58.0	42.8	33.6	30.5	29.0	26.0	24.4	26.0
62.5°	126.8	116.1	79.4	47.3	33.6	24.4	21.4	22.9	21.4	19.9	21.4
65°	111.5	102.3	67.2	36.7	26.0	16.8	15.3	19.9	18.3	16.8	18.3
67.5°	99.3	88.6	56.5	27.5	18.3	9.2	10.7	16.8	16.8	15.3	16.8
70°	85.5	76.4	45.8	19.9	9.2	4.6	7.6	12.2	15.3	13.7	15.3
72.5°	70.3	59.6	35.1	13.7	4.6	0.0	4.6	10.7	15.3	13.7	15.3
75°	55.0	44.3	26.0	7.6	0.0	0.0	1.5	9.2	15.3	13.7	15.3
77.5°	39.7	32.1	15.3	1.5	0.0	0.0	1.5	9.2	15.3	13.7	15.3
80°	26.0	22.9	6.1	0.0	0.0	0.0	1.5	9.2	15.3	15.3	16.8
82.5°	16.8	12.2	0.0	0.0	0.0	0.0	3.1	12.2	16.8	18.3	18.3
85°	7.6	0.0	0.0	0.0	0.0	0.0	6.1	15.3	19.9	19.9	19.9
87.5°	0.0	0.0	0.0	0.0	0.0	3.1	10.7	18.3	22.9	22.9	22.9
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°	6640.7	6640.7	6640.7	6640.7	6640.7	6640.7	6640.7	6640.7	6640.7	6640.7	6640.7
2.5°	5461.6	5557.8	5693.8	5903.0	6072.5	6339.8	6544.5	6824.0	7106.5	7192.0	7324.9
5°	4019.8	4143.6	4452.1	4733.1	4910.3	5475.4	5832.8	6396.3	6901.9	7144.7	7408.9
7.5°	2791.9	2938.5	3173.7	3566.2	3938.9	4398.6	4975.9	5620.5	6361.2	6707.9	7080.6
10°	1959.5	2142.8	2474.2	2796.5	3265.4	3702.2	4271.9	4983.6	5800.7	6210.0	6677.3
12.5°	1237.1	1400.5	1838.9	2200.8	2785.8	3292.9	3818.2	4462.8	5409.7	5829.7	6320.0
15°	707.1	844.6	1049.3	1513.6	2162.7	2833.1	3488.3	4236.7	5209.6	5727.4	6257.3
17.5°	526.9	563.6	655.2	917.9	1509.0	2292.5	3184.4	4168.0	5345.5	5953.4	6558.2
20°	442.9	467.4	510.1	614.0	962.2	1765.6	2888.1	4180.2	5785.4	6549.1	7123.3
22.5°	397.1	412.4	447.5	514.7	656.7	1286.0	2541.4	4252.0	6318.4	7280.6	7943.5
25°	348.2	368.1	398.6	456.7	546.8	891.9	2199.3	4412.4	7065.3	8209.2	8832.4
27.5°	310.0	328.4	358.9	412.4	479.6	681.2	1800.7	4549.8	7853.4	9143.9	9654.1
30°	271.9	290.2	320.7	363.5	424.6	551.4	1371.5	4630.8	8618.5	9845.0	10237.5
32.5°	239.8	255.1	284.1	322.3	372.7	467.4	1081.3	4546.8	9203.5	10481.8	10744.5
35°	207.7	226.0	250.5	285.6	329.9	398.6	899.6	4256.6	9706.0	11137.1	11231.8
37.5°	174.1	195.5	221.5	253.5	288.7	366.6	722.4	3935.8	10243.6	11954.2	11798.4
40°	146.6	166.5	190.9	226.0	258.1	336.0	555.9	3593.7	10824.0	12720.9	12416.9
42.5°	119.1	140.5	169.5	201.6	255.1	293.2	430.7	3239.4	11344.8	13388.3	12975.9
45°	94.7	113.0	143.6	184.8	253.5	252.0	333.0	2889.6	11737.3	13864.8	13392.9
47.5°	74.8	90.1	120.7	180.2	233.7	213.8	267.3	2672.8	12149.7	14294.0	13712.1
50°	59.6	74.8	103.9	187.9	204.7	183.3	224.5	2707.9	12548.3	14512.4	13843.4
52.5°	50.4	65.7	90.1	148.1	157.3	160.4	197.0	2869.8	13063.0	14746.1	14104.6
55°	44.3	58.0	76.4	103.9	122.2	143.6	180.2	2987.4	13751.8	15247.0	14680.4
57.5°	35.1	50.4	68.7	88.6	100.8	125.2	166.5	2996.6	14374.9	15890.0	15445.6
59°	32.1	45.8	64.1	84.0	90.1	113.0	157.3	2918.7	14397.8	15986.2	15796.8
60°	29.0	44.3	61.1	77.9	85.5	106.9	149.7	2828.6	14190.1	15833.5	15941.9
62.5°	24.4	38.2	53.5	62.6	73.3	88.6	129.8	2501.7	13183.6	15141.6	15673.1
65°	21.4	33.6	45.8	51.9	61.1	76.4	114.5	2002.3	12071.8	14203.9	14903.4
67.5°	19.9	30.5	39.7	44.3	53.5	70.3	102.3	1414.3	10631.5	13014.1	13747.2
70°	18.3	29.0	35.1	41.2	47.3	59.6	87.1	824.7	8189.4	10927.8	11702.2
72.5°	18.3	27.5	30.5	35.1	41.2	53.5	80.9	446.0	5599.1	8336.0	9336.4
75°	18.3	26.0	27.5	30.5	36.7	48.9	71.8	233.7	3619.7	5791.5	7147.8
77.5°	18.3	24.4	27.5	29.0	35.1	42.8	62.6	146.6	2411.6	4056.5	4830.8
80°	19.9	24.4	26.0	29.0	33.6	39.7	51.9	97.7	1417.3	2440.6	2940.0
82.5°	21.4	24.4	27.5	30.5	35.1	38.2	45.8	61.1	653.7	1614.4	1826.6
85°	22.9	26.0	29.0	32.1	36.7	38.2	42.8	44.3	106.9	728.5	985.1
87.5°	24.4	27.5	30.5	33.6	39.7	39.7	39.7	39.7	36.7	77.9	198.5
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: P454554

CATALOG NUMBER: GALN-SA5C-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6640.7	6640.7	6640.7	6640.7	6640.7	6640.7	6640.7	6640.7	6640.7	6640.7
2.5°	7492.9	7665.5	7786.2	7816.7	7729.7	7689.9	7580.0	7408.9	7305.1	7300.5
5°	7896.1	8300.9	8581.9	8629.2	8461.2	8177.2	7839.6	7404.3	7149.3	7072.9
7.5°	7827.4	8536.1	8988.2	9053.8	8771.3	8229.1	7575.4	6874.4	6596.4	6478.8
10°	7544.9	8409.3	9055.4	9159.2	8782.0	8018.3	7187.5	6405.5	6060.3	5970.2
12.5°	7303.5	8177.2	8751.4	8895.0	8609.4	7847.3	6955.3	6104.6	5735.0	5651.0
15°	7198.2	7902.2	8253.5	8326.8	8279.5	7740.3	6930.9	6058.8	5635.7	5544.1
17.5°	7303.5	7668.6	7712.9	7787.7	7893.1	7729.7	7166.1	6307.7	5851.1	5738.1
20°	7580.0	7465.4	7282.2	7314.2	7555.5	7773.9	7584.6	6859.1	6303.2	6182.5
22.5°	8050.4	7415.0	6999.6	6972.1	7277.6	7922.1	8198.5	7605.9	6961.4	6842.3
25°	8627.7	7541.8	6895.8	6836.2	7169.1	8139.0	8866.0	8520.8	7816.7	7635.0
27.5°	9257.0	7804.5	6895.8	6837.7	7160.0	8331.4	9437.2	9330.3	8702.5	8504.0
30°	9602.1	8021.4	6995.0	6929.4	7273.0	8442.9	9742.6	10049.6	9368.4	9122.6
32.5°	9910.6	8322.2	7189.0	7065.3	7509.7	8607.9	10016.0	10660.5	9898.4	9733.5
35°	10194.7	8644.5	7456.3	7312.7	7821.3	8833.9	10318.4	11302.0	10636.1	10387.2
37.5°	10507.8	9018.7	7873.2	7751.0	8342.1	9273.8	10677.3	12145.1	11361.6	11048.5
40°	10848.4	9452.4	8559.0	8507.1	9169.9	9771.7	11131.0	13044.7	12189.4	11833.5
42.5°	11195.1	9951.9	9399.0	9484.5	10107.7	10469.6	11596.8	13736.5	12867.5	12475.0
45°	11509.7	10590.3	10491.0	10914.1	11201.2	11150.8	11941.9	14223.7	13458.6	13082.8
47.5°	11906.8	11520.4	11812.1	12464.3	12471.9	11891.5	12203.1	14622.4	13967.1	13591.4
50°	12351.3	12618.5	13518.1	14182.5	14003.8	12620.1	12508.6	15094.3	14492.5	14191.7
52.5°	12866.0	13848.0	15094.3	15832.0	15415.0	13414.3	13017.2	15604.4	15326.4	15037.8
55°	13464.7	14686.5	16665.9	17253.9	16833.9	14400.9	13790.0	16296.3	16268.8	16071.8
57.5°	14141.3	15572.3	17576.1	18371.9	17997.7	15558.6	14869.8	16948.4	16844.6	16734.6
59°	14675.8	16027.5	17977.8	18802.6	18576.5	16369.6	15595.2	17354.7	16977.4	16812.5
60°	14999.6	16336.0	18126.0	18860.6	18808.7	16852.2	16055.0	17553.2	16975.9	16746.8
62.5°	15960.3	16875.1	18069.5	18602.5	18805.6	17777.8	17403.6	17771.6	16661.3	16325.3
65°	16302.4	16696.4	17133.2	17067.6	17241.7	17730.4	18265.0	17531.9	15989.3	15511.2
67.5°	15636.5	14736.9	14891.2	14452.8	14367.3	15763.2	17915.2	16358.9	14674.3	14089.3
70°	13180.6	11289.8	11211.9	11413.5	10860.6	12762.1	16087.0	14100.0	12504.0	11841.1
72.5°	10374.9	7978.6	7321.9	8064.1	8047.3	9736.5	13363.9	10005.3	8447.5	8391.0
75°	8158.8	5554.8	4875.1	4995.8	5227.9	7048.5	10643.7	6353.6	5202.0	4740.7
77.5°	5476.9	3935.8	3671.6	3523.5	3774.0	4525.4	6733.9	3445.6	2917.1	2762.9
80°	3156.9	2859.1	3247.0	2947.7	3082.1	2851.5	3349.4	1580.8	1311.9	1420.4
82.5°	2054.2	1628.1	1735.0	1289.0	1762.5	1777.8	1075.2	467.4	395.6	420.0
85°	1284.5	763.6	429.2	305.5	607.9	1118.0	336.0	29.0	33.6	29.0
87.5°	333.0	126.8	53.5	79.4	97.7	87.1	77.9	4.6	1.5	3.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)