

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: P647450

Luminaire Tested: **GALN-SA5D-835-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647450
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-SA5D-835-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 1200mA 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: 21784.6 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

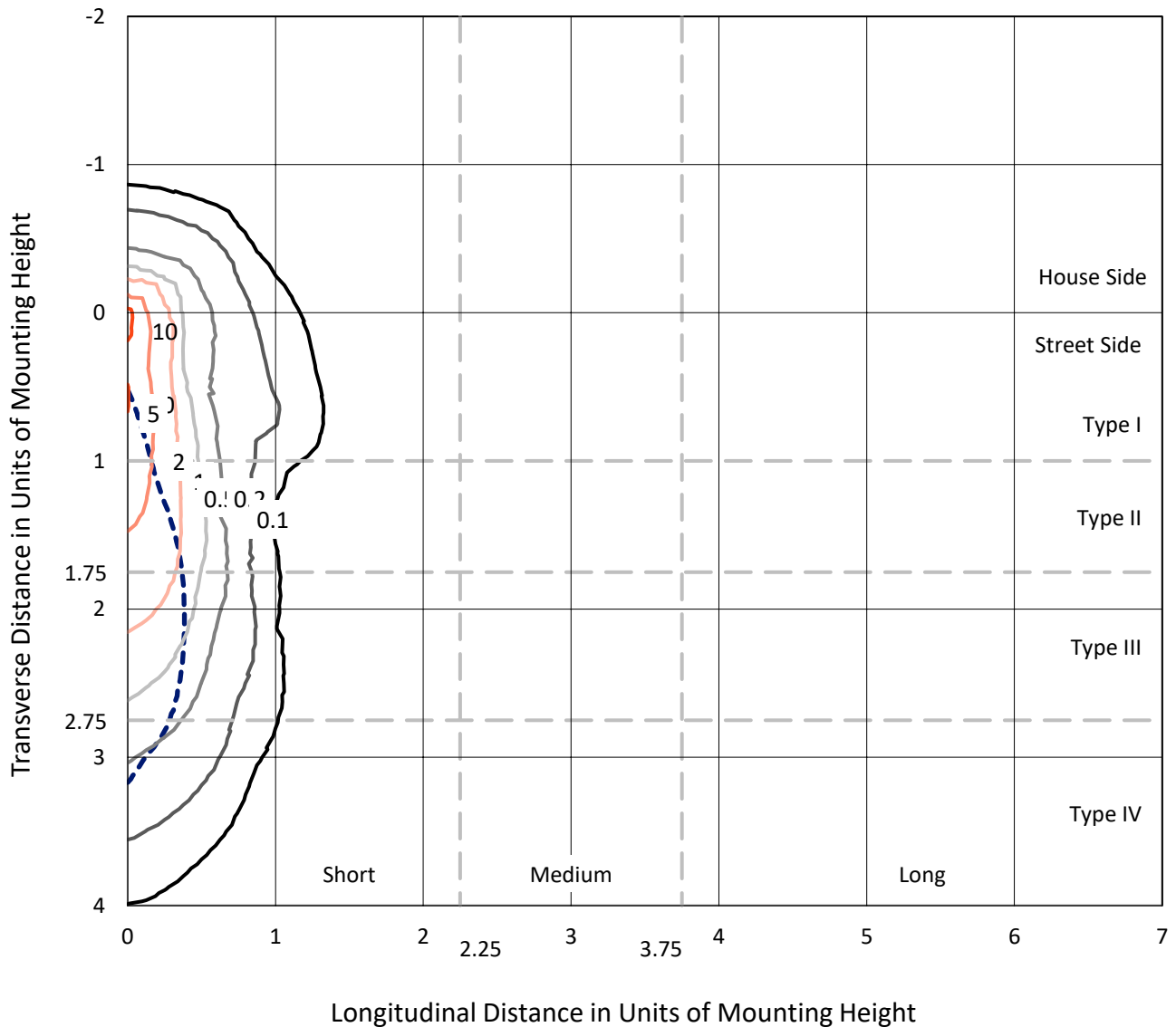
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

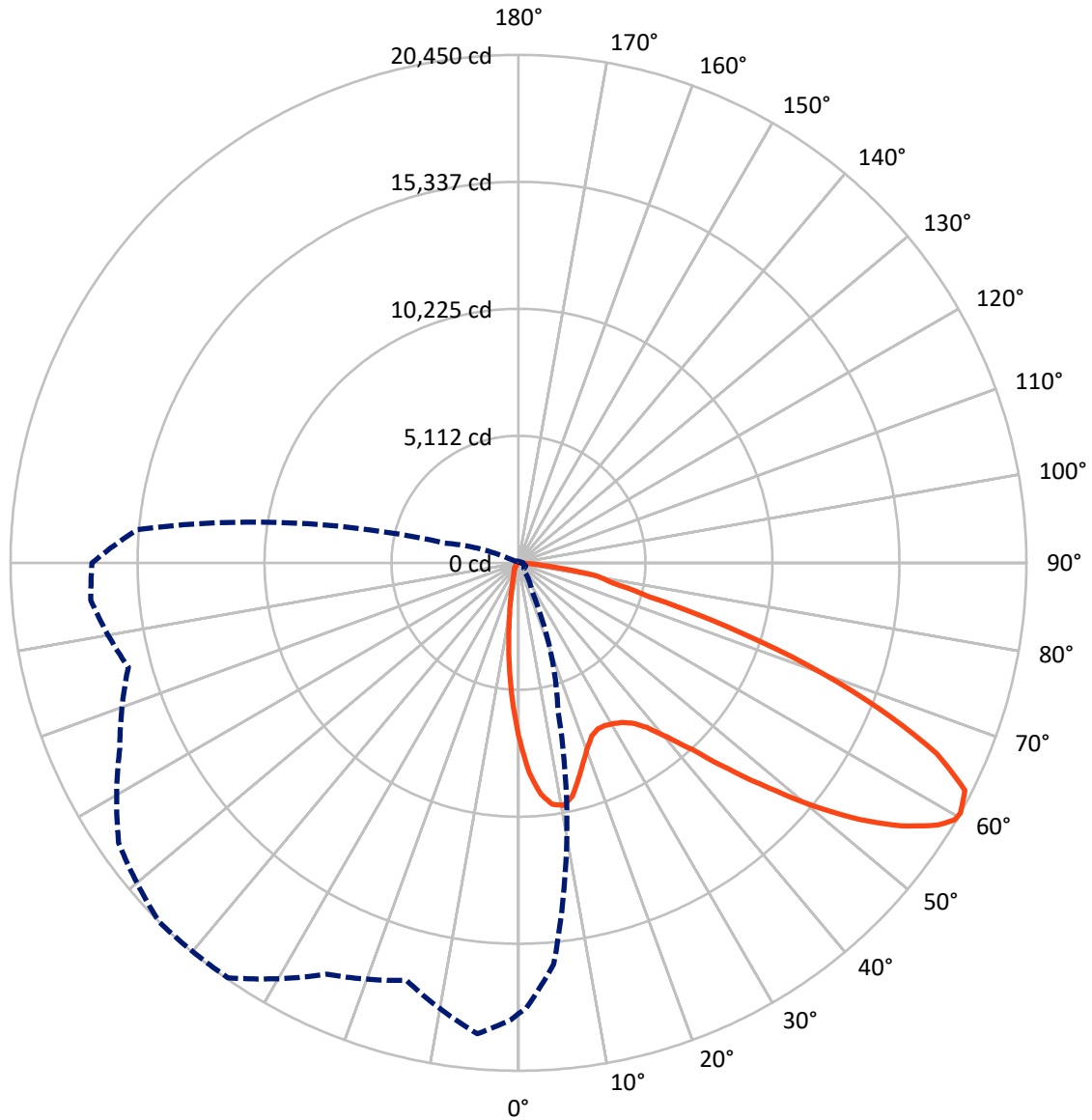
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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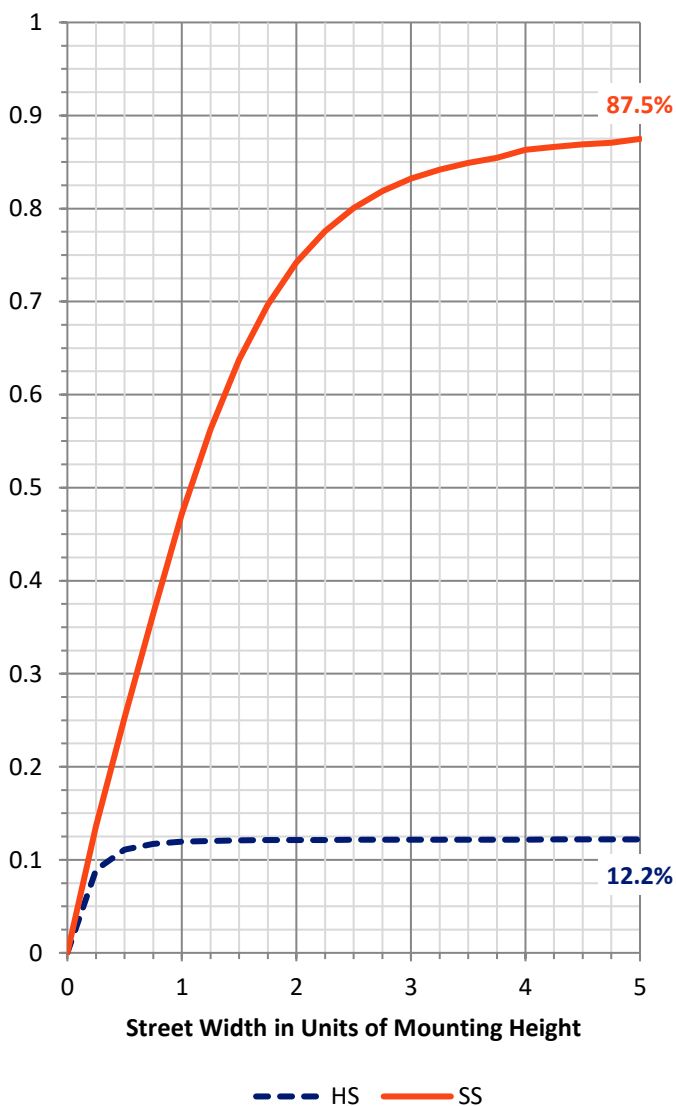
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2686.9	0.0	2686.9
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	19097.7	0.0	19097.7
	% Fixture	87.7	0.0	87.7
Total	Lumens	21784.6	0.0	21784.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	535.5	2.5
10°-20°	1063.6	4.9
20°-30°	1559.5	7.2
30°-40°	2319.2	10.6
40°-50°	3375.1	15.5
50°-60°	4867.2	22.3
60°-70°	5353.4	24.6
70°-80°	2397.9	11.0
80°-90°	313.3	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°	21784.6	100.0
0°-180°	21784.6	100.0

Coefficient of Utilization



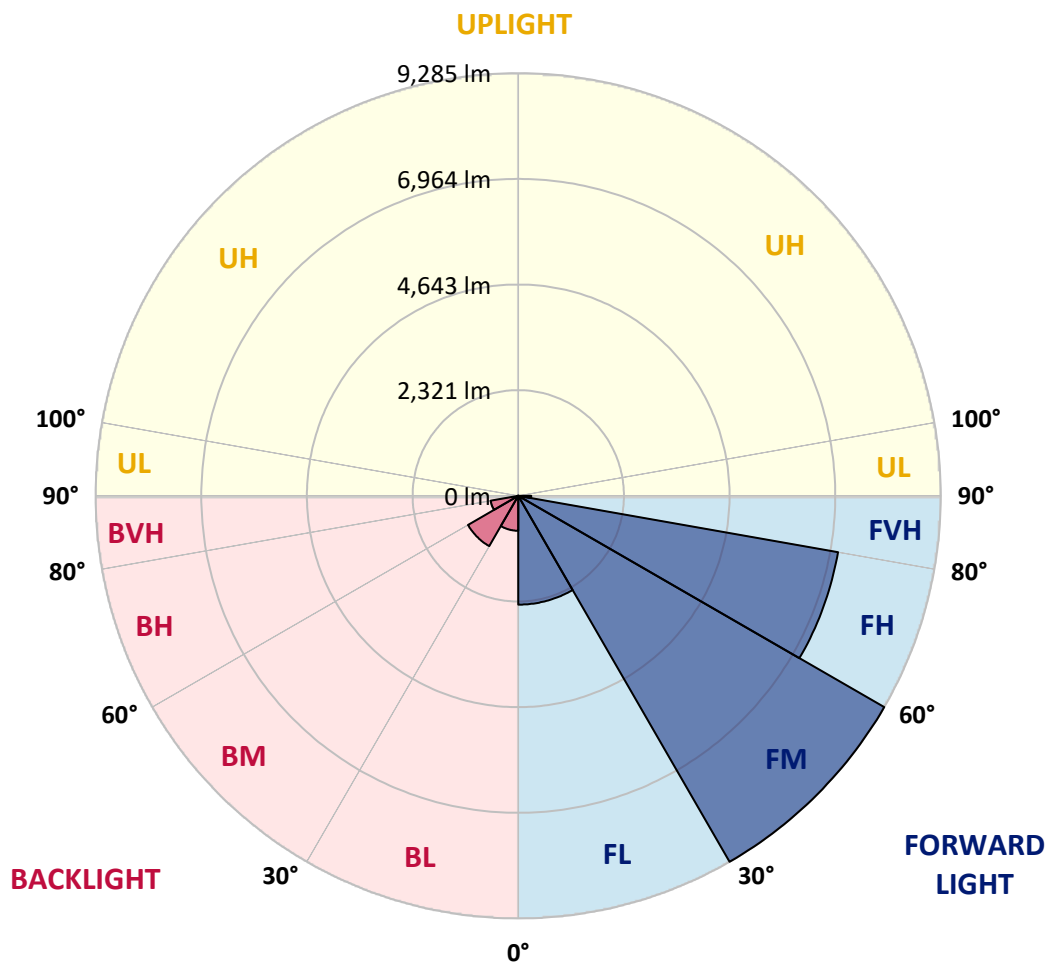
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2390.8	11.0			
FM (30°-60°)	9285.3	42.6			
FH (60°-80°)	7135.1	32.8			G3/7500
FVH (80°-90°)	286.5	1.3			G3/500
BL (0°-30°)	767.7	3.5	B2/1000		
BM (30°-60°)	1276.2	5.9	B2/2500		
BH (60°-80°)	616.2	2.8	B2/1000		G2/1000
BVH (80°-90°)	26.8	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°	7200.2	7200.2	7200.2	7200.2	7200.2	7200.2	7200.2	7200.2	7200.2	7200.2	7200.2
2.5°	7915.5	7880.7	7801.3	7559.5	7349.2	7074.2	6796.0	6577.5	6443.4	6196.6	6084.0
5°	7668.8	7685.3	7455.2	6958.4	6405.3	6027.7	5615.4	5287.5	4926.5	4698.0	4457.9
7.5°	7024.6	6991.5	6741.4	6049.2	5376.9	4830.5	4308.8	3884.9	3618.2	3404.6	3225.8
10°	6473.1	6448.3	6128.7	5237.8	4515.8	4106.8	3754.1	3383.1	3096.7	2783.6	2533.6
12.5°	6127.1	6070.8	5703.1	4772.5	4184.6	3803.7	3419.6	3033.7	2637.9	2321.7	2018.7
15°	6011.2	5930.0	5521.0	4611.9	3972.6	3489.1	3007.3	2563.5	2108.1	1758.6	1530.1
17.5°	6221.5	6087.4	5651.8	4583.7	3719.3	3078.4	2485.6	1907.7	1434.1	1167.5	1026.7
20°	6703.3	6549.3	5983.0	4555.6	3437.8	2618.1	1889.5	1347.9	991.9	846.2	768.4
22.5°	7418.7	7206.7	6473.1	4600.3	3177.8	2169.3	1364.5	952.2	788.2	697.2	642.5
25°	8278.2	8101.0	7094.1	4759.2	2972.4	1816.6	1054.9	778.3	664.1	607.8	566.3
27.5°	9220.4	8937.2	7897.3	4949.7	2785.4	1543.4	925.7	695.5	591.2	539.9	518.3
30°	9891.1	9670.8	8569.6	5082.1	2551.9	1338.0	846.2	685.6	592.8	531.6	491.8
32.5°	10553.4	10271.9	9132.7	5143.4	2381.3	1195.6	731.9	597.8	520.0	488.5	448.7
35°	11262.2	10967.5	9694.0	5110.3	2253.8	1101.2	664.1	533.2	445.4	392.4	352.7
37.5°	11979.3	11668.0	10252.1	4991.1	2174.3	1063.2	611.1	506.8	420.6	366.0	322.9
40°	12830.4	12414.8	10775.3	4893.4	2091.5	1043.3	576.3	490.2	402.4	344.4	301.4
42.5°	13525.9	13130.1	11270.5	4842.1	2035.2	996.9	576.3	476.9	390.8	326.2	281.5
45°	14185.0	13774.3	11805.4	4883.4	2012.0	938.9	582.9	475.3	382.5	313.0	268.3
47.5°	14736.5	14380.4	12355.1	5039.1	1982.2	876.0	548.1	498.5	377.6	301.4	255.0
50°	15387.2	15042.8	13082.1	5353.8	1929.2	813.1	505.0	536.5	375.9	291.4	243.4
52.5°	16304.6	15932.0	14085.6	5711.4	1844.7	717.1	465.3	531.6	369.3	274.9	231.8
55°	17425.7	17124.3	15248.1	6140.3	1728.9	609.4	402.4	471.9	349.4	246.7	212.0
57.5°	18144.4	17887.7	16119.2	6325.8	1551.7	498.5	354.4	395.8	319.6	220.3	188.8
59°	18228.9	17997.0	16301.3	6264.5	1435.7	455.4	331.2	339.5	311.3	205.3	175.5
60°	18157.6	17917.5	16228.5	6145.3	1328.0	425.6	311.3	301.4	313.0	197.1	165.6
62.5°	17700.6	17289.9	15521.3	5540.8	1160.8	390.8	276.6	246.7	276.6	177.2	147.4
65°	16818.0	16201.9	14122.0	4689.7	1094.6	370.9	235.1	207.0	210.3	155.7	127.5
67.5°	15276.3	14499.6	12259.1	3810.4	1066.4	372.6	198.7	185.5	162.3	132.5	112.6
70°	12838.7	12063.7	9836.4	3134.7	1053.2	372.6	168.9	158.9	135.8	111.0	97.7
72.5°	9097.8	8263.2	6635.5	2462.5	948.8	370.9	144.1	144.1	111.0	92.7	79.5
75°	5140.1	5146.7	4171.4	1742.1	788.2	306.4	115.9	114.2	81.1	71.2	59.6
77.5°	2995.6	2942.7	2811.8	748.5	366.0	139.1	81.1	69.5	56.3	51.4	43.1
80°	1540.1	1266.8	1233.7	271.5	130.8	87.8	56.3	39.8	36.4	33.1	29.8
82.5°	455.4	457.0	407.4	109.3	72.9	57.9	28.2	21.5	19.9	18.2	18.2
85°	31.5	19.9	23.2	33.1	44.7	23.2	1.6	4.9	4.9	6.7	8.3
87.5°	3.3	1.6	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°	7200.2	7200.2	7200.2	7200.2	7200.2	7200.2	7200.2	7200.2	7200.2	7200.2	7200.2
2.5°	5959.8	6032.7	5896.9	5900.2	5787.6	5824.0	5691.5	5734.6	5656.8	5716.4	5891.9
5°	4484.3	4500.9	4391.6	4356.8	4373.4	4441.3	4467.8	4346.9	4398.3	4297.3	4290.6
7.5°	3159.6	3179.4	3116.5	3108.3	3227.4	3199.3	3250.6	3126.4	3008.9	3060.2	2965.8
10°	2454.2	2371.3	2242.2	2205.7	2182.5	2197.5	2197.5	2084.9	2068.3	2023.6	2091.5
12.5°	1937.5	1836.4	1713.9	1548.3	1507.0	1503.6	1442.4	1343.0	1311.5	1273.5	1329.8
15°	1407.6	1366.2	1263.5	1170.7	1076.4	1058.1	958.8	877.7	770.0	755.1	750.1
17.5°	990.3	929.0	927.3	874.4	819.7	783.2	690.5	597.8	556.4	551.5	551.5
20°	741.9	720.4	685.6	678.9	662.4	621.0	538.2	488.5	468.6	470.3	476.9
22.5°	624.3	609.4	577.9	563.1	556.4	520.0	458.7	425.6	415.6	415.6	417.3
25°	558.0	544.8	510.0	486.9	478.6	452.1	404.0	379.2	370.9	370.9	370.9
27.5°	508.4	491.8	455.4	435.5	420.6	390.8	361.0	336.1	327.8	327.8	329.6
30°	473.6	455.4	422.3	395.8	372.6	346.1	321.3	299.7	289.8	288.1	289.8
32.5°	427.2	410.7	377.6	361.0	334.5	303.0	283.1	263.3	253.4	255.0	253.4
35°	332.9	327.8	304.7	309.7	294.8	268.3	250.0	228.6	217.0	215.2	218.6
37.5°	303.0	283.1	256.7	258.3	253.4	243.4	213.6	190.4	182.1	182.1	183.8
40°	279.8	260.0	230.2	215.2	217.0	217.0	185.5	160.6	152.4	150.7	154.0
42.5°	260.0	240.1	207.0	182.1	175.5	183.8	157.3	132.5	124.2	120.9	124.2
45°	246.7	225.2	187.1	158.9	139.1	149.0	129.2	109.3	99.4	99.4	97.7
47.5°	233.5	213.6	172.2	137.4	115.9	111.0	106.0	87.8	77.8	76.2	77.8
50°	221.9	202.0	155.7	119.3	97.7	86.1	86.1	69.5	63.0	59.6	61.3
52.5°	210.3	188.8	140.8	106.0	84.5	69.5	61.3	56.3	51.4	49.6	51.4
55°	193.7	172.2	125.8	91.1	72.9	57.9	48.0	46.4	43.1	39.8	43.1
57.5°	173.9	154.0	111.0	77.8	57.9	44.7	39.8	38.1	34.8	33.1	33.1
59°	162.3	144.1	102.7	67.9	51.4	39.8	36.4	34.8	31.5	28.2	29.8
60°	155.7	140.8	97.7	63.0	46.4	36.4	33.1	31.5	28.2	26.5	28.2
62.5°	137.4	125.8	86.1	51.4	36.4	26.5	23.2	24.8	23.2	21.5	23.2
65°	120.9	111.0	72.9	39.8	28.2	18.2	16.5	21.5	19.9	18.2	19.9
67.5°	107.7	96.1	61.3	29.8	19.9	9.9	11.6	18.2	18.2	16.5	18.2
70°	92.7	82.8	49.6	21.5	9.9	4.9	8.3	13.2	16.5	14.9	16.5
72.5°	76.2	64.6	38.1	14.9	4.9	0.0	4.9	11.6	16.5	14.9	16.5
75°	59.6	48.0	28.2	8.3	0.0	0.0	1.6	9.9	16.5	14.9	16.5
77.5°	43.1	34.8	16.5	1.6	0.0	0.0	1.6	9.9	16.5	14.9	16.5
80°	28.2	24.8	6.7	0.0	0.0	0.0	1.6	9.9	16.5	16.5	18.2
82.5°	18.2	13.2	0.0	0.0	0.0	0.0	3.3	13.2	18.2	19.9	19.9
85°	8.3	0.0	0.0	0.0	0.0	0.0	6.7	16.5	21.5	21.5	21.5
87.5°	0.0	0.0	0.0	0.0	0.0	3.3	11.6	19.9	24.8	24.8	24.8
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°	7200.2	7200.2	7200.2	7200.2	7200.2	7200.2	7200.2	7200.2	7200.2	7200.2	7200.2
2.5°	5921.8	6026.0	6173.4	6400.3	6584.1	6873.9	7095.8	7398.9	7705.2	7797.9	7942.0
5°	4358.5	4492.6	4827.1	5131.9	5323.9	5936.6	6324.1	6935.2	7483.3	7746.6	8033.1
7.5°	3027.1	3186.1	3441.1	3866.7	4270.7	4769.2	5395.1	6093.9	6897.1	7273.0	7677.1
10°	2124.6	2323.3	2682.6	3032.1	3540.4	4014.0	4631.8	5403.4	6289.4	6733.2	7239.9
12.5°	1341.4	1518.6	1993.8	2386.3	3020.5	3570.2	4139.9	4838.7	5865.5	6320.8	6852.3
15°	766.7	915.7	1137.6	1641.1	2344.9	3071.8	3782.2	4593.6	5648.5	6209.9	6784.5
17.5°	571.3	611.1	710.4	995.3	1636.1	2485.6	3452.7	4519.2	5795.8	6455.0	7110.7
20°	480.2	506.8	553.1	665.7	1043.3	1914.3	3131.5	4532.4	6272.8	7100.8	7723.4
22.5°	430.6	447.1	485.2	558.0	712.1	1394.3	2755.5	4610.2	6850.7	7894.0	8612.7
25°	377.6	399.1	432.2	495.2	592.8	967.1	2384.6	4784.1	7660.5	8900.8	9576.4
27.5°	336.1	356.0	389.2	447.1	520.0	738.5	1952.4	4933.1	8515.0	9914.3	10467.4
30°	294.8	314.6	347.7	394.1	460.3	597.8	1487.1	5020.9	9344.6	10674.3	11099.9
32.5°	260.0	276.6	308.0	349.4	404.0	506.8	1172.4	4929.8	9978.9	11364.9	11649.7
35°	225.2	245.1	271.5	309.7	357.7	432.2	975.4	4615.2	10523.7	12075.3	12177.9
37.5°	188.8	212.0	240.1	274.9	313.0	397.5	783.2	4267.4	11106.5	12961.2	12792.3
40°	158.9	180.5	207.0	245.1	279.8	364.3	602.8	3896.5	11735.8	13792.5	13463.0
42.5°	129.2	152.4	183.8	218.6	276.6	318.0	467.0	3512.3	12300.5	14516.2	14069.1
45°	102.7	122.5	155.7	200.4	274.9	273.3	361.0	3133.1	12726.1	15032.8	14521.1
47.5°	81.1	97.7	130.8	195.4	253.4	231.8	289.8	2898.0	13173.2	15498.2	14867.2
50°	64.6	81.1	112.6	203.7	221.9	198.7	243.4	2936.0	13605.4	15734.9	15009.6
52.5°	54.7	71.2	97.7	160.6	170.5	173.9	213.6	3111.6	14163.5	15988.3	15292.9
55°	48.0	63.0	82.8	112.6	132.5	155.7	195.4	3239.0	14910.3	16531.5	15917.1
57.5°	38.1	54.7	74.5	96.1	109.3	135.8	180.5	3249.0	15585.9	17228.7	16746.7
59°	34.8	49.6	69.5	91.1	97.7	122.5	170.5	3164.6	15610.7	17333.0	17127.7
60°	31.5	48.0	66.2	84.5	92.7	115.9	162.3	3066.9	15385.6	17167.4	17285.0
62.5°	26.5	41.4	57.9	67.9	79.5	96.1	140.8	2712.5	14294.3	16417.2	16993.5
65°	23.2	36.4	49.6	56.3	66.2	82.8	124.2	2170.9	13088.7	15400.4	16158.9
67.5°	21.5	33.1	43.1	48.0	57.9	76.2	111.0	1533.4	11527.2	14110.4	14905.3
70°	19.9	31.5	38.1	44.7	51.4	64.6	94.4	894.2	8879.3	11848.4	12688.0
72.5°	19.9	29.8	33.1	38.1	44.7	57.9	87.8	483.5	6070.8	9038.2	10122.9
75°	19.9	28.2	29.8	33.1	39.8	53.0	77.8	253.4	3924.6	6279.4	7749.9
77.5°	19.9	26.5	29.8	31.5	38.1	46.4	67.9	158.9	2614.8	4398.3	5237.8
80°	21.5	26.5	28.2	31.5	36.4	43.1	56.3	106.0	1536.7	2646.2	3187.7
82.5°	23.2	26.5	29.8	33.1	38.1	41.4	49.6	66.2	708.8	1750.3	1980.5
85°	24.8	28.2	31.5	34.8	39.8	41.4	46.4	48.0	115.9	789.9	1068.1
87.5°	26.5	29.8	33.1	36.4	43.1	43.1	43.1	43.1	39.8	84.5	215.2
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: P647450

CATALOG NUMBER: GALN-SA5D-835-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7200.2	7200.2	7200.2	7200.2	7200.2	7200.2	7200.2	7200.2	7200.2	7200.2
2.5°	8124.2	8311.3	8442.1	8475.2	8380.8	8337.8	8218.5	8033.1	7920.4	7915.5
5°	8561.3	9000.2	9304.9	9356.2	9174.0	8866.1	8500.1	8028.1	7751.5	7668.8
7.5°	8486.8	9255.2	9745.4	9816.5	9510.2	8922.4	8213.6	7453.5	7152.1	7024.6
10°	8180.5	9117.7	9818.2	9930.8	9521.8	8693.8	7793.0	6945.1	6570.9	6473.1
12.5°	7918.8	8866.1	9488.7	9644.4	9334.7	8508.3	7541.2	6618.9	6218.1	6127.1
15°	7804.6	8568.0	8948.8	9028.3	8977.0	8392.4	7514.8	6569.2	6110.5	6011.2
17.5°	7918.8	8314.6	8362.6	8443.8	8558.0	8380.8	7769.8	6839.1	6344.0	6221.5
20°	8218.5	8094.3	7895.6	7930.4	8192.1	8428.8	8223.5	7436.9	6834.2	6703.3
22.5°	8728.6	8039.7	7589.3	7559.5	7890.7	8589.5	8889.2	8246.7	7547.9	7418.7
25°	9354.5	8177.2	7476.7	7412.1	7773.1	8824.6	9612.9	9238.6	8475.2	8278.2
27.5°	10036.8	8462.0	7476.7	7413.8	7763.1	9033.3	10232.2	10116.3	9435.7	9220.4
30°	10411.1	8697.1	7584.3	7513.1	7885.7	9154.1	10563.4	10896.2	10157.7	9891.1
32.5°	10745.6	9023.4	7794.6	7660.5	8142.3	9333.0	10859.8	11558.6	10732.3	10553.4
35°	11053.5	9372.7	8084.4	7928.7	8480.2	9578.1	11187.7	12254.1	11532.1	11262.2
37.5°	11393.0	9778.5	8536.5	8404.0	9044.9	10055.0	11576.8	13168.3	12318.7	11979.3
40°	11762.3	10248.8	9280.0	9223.7	9942.4	10594.9	12068.7	14143.6	13216.3	12830.4
42.5°	12138.2	10790.3	10190.8	10283.5	10959.2	11351.6	12573.7	14893.8	13951.5	13525.9
45°	12479.4	11482.5	11374.8	11833.5	12144.8	12090.2	12948.0	15422.0	14592.4	14185.0
47.5°	12909.9	12491.0	12807.2	13514.3	13522.6	12893.3	13231.1	15854.2	15143.8	14736.5
50°	13391.8	13681.6	14656.9	15377.3	15183.5	13683.2	13562.3	16365.9	15713.4	15387.2
52.5°	13949.8	15014.7	16365.9	17165.7	16713.6	14544.3	14113.8	16919.0	16617.6	16304.6
55°	14599.0	15923.7	18069.8	18707.4	18252.0	15614.1	14951.7	17669.1	17639.3	17425.7
57.5°	15332.5	16884.2	19056.8	19919.6	19513.8	16869.3	16122.4	18376.2	18263.6	18144.4
59°	15912.1	17377.7	19492.3	20386.6	20141.5	17748.7	16909.0	18816.7	18407.7	18228.9
60°	16263.2	17712.2	19653.0	20449.5	20393.2	18271.9	17407.5	19032.0	18406.1	18157.6
62.5°	17304.8	18296.8	19591.7	20169.6	20389.9	19275.4	18869.7	19268.8	18064.9	17700.6
65°	17675.8	18103.0	18576.6	18505.4	18694.2	19224.1	19803.6	19008.8	17336.2	16818.0
67.5°	16953.8	15978.4	16145.6	15670.4	15577.6	17091.2	19424.4	17737.1	15910.5	15276.3
70°	14291.0	12240.9	12156.5	12375.0	11775.5	13837.3	17442.3	15287.8	13557.4	12838.7
72.5°	11249.0	8650.7	7938.7	8743.5	8725.3	10556.8	14489.6	10848.2	9159.1	9097.8
75°	8846.2	6022.8	5285.8	5416.6	5668.4	7642.2	11540.4	6888.8	5640.2	5140.1
77.5°	5938.3	4267.4	3980.9	3820.3	4091.9	4906.6	7301.2	3735.8	3162.9	2995.6
80°	3422.9	3100.0	3520.6	3196.0	3341.8	3091.7	3631.6	1713.9	1422.5	1540.1
82.5°	2227.2	1765.3	1881.2	1397.7	1911.0	1927.5	1165.8	506.8	428.9	455.4
85°	1392.6	827.9	465.3	331.2	659.1	1212.2	364.3	31.5	36.4	31.5
87.5°	361.0	137.4	57.9	86.1	106.0	94.4	84.5	4.9	1.6	3.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)