

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: P459368

Luminaire Tested: **GALN-SA8B-735-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459368
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-SA8B-735-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 800mA 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: 30739 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

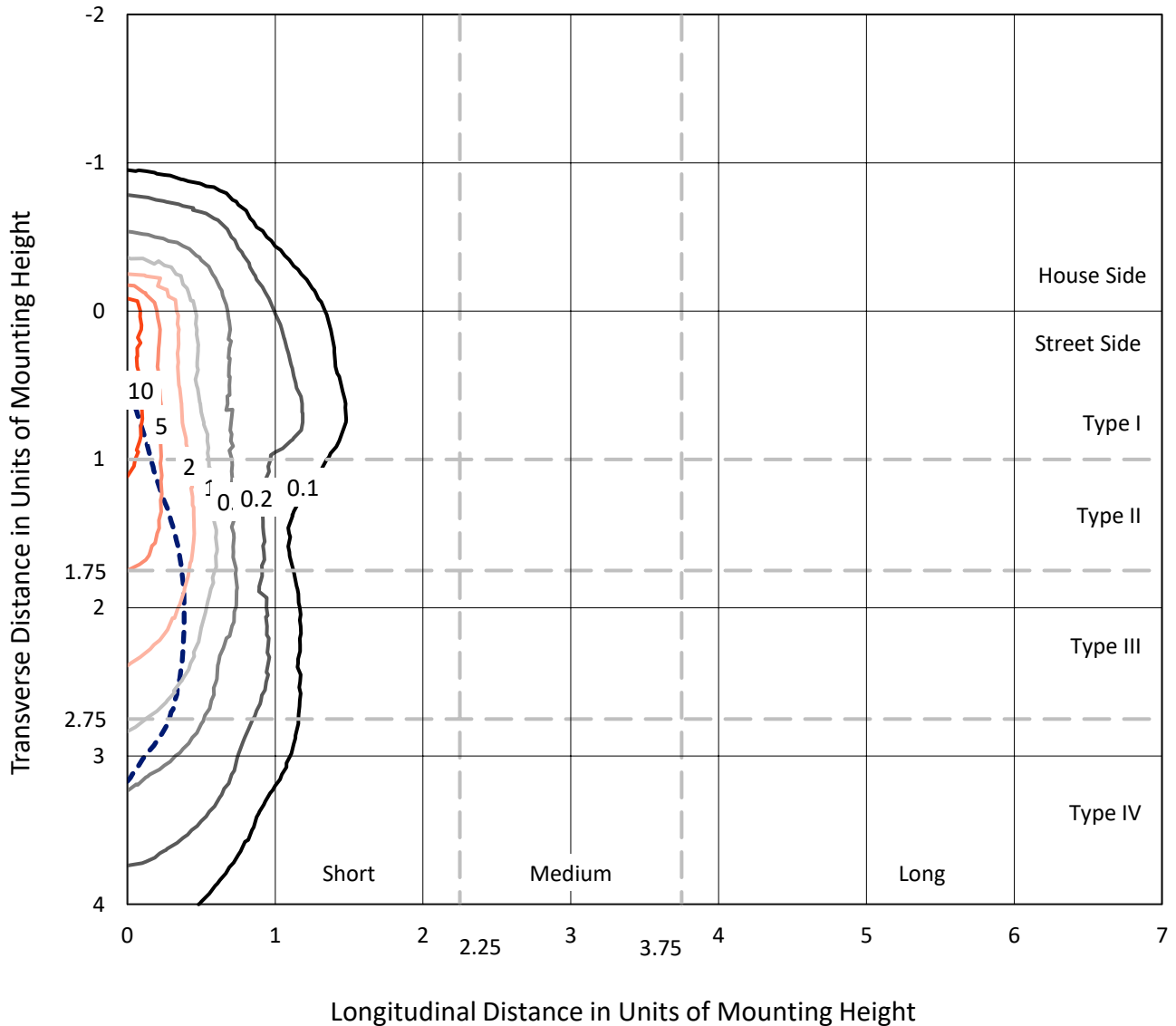
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

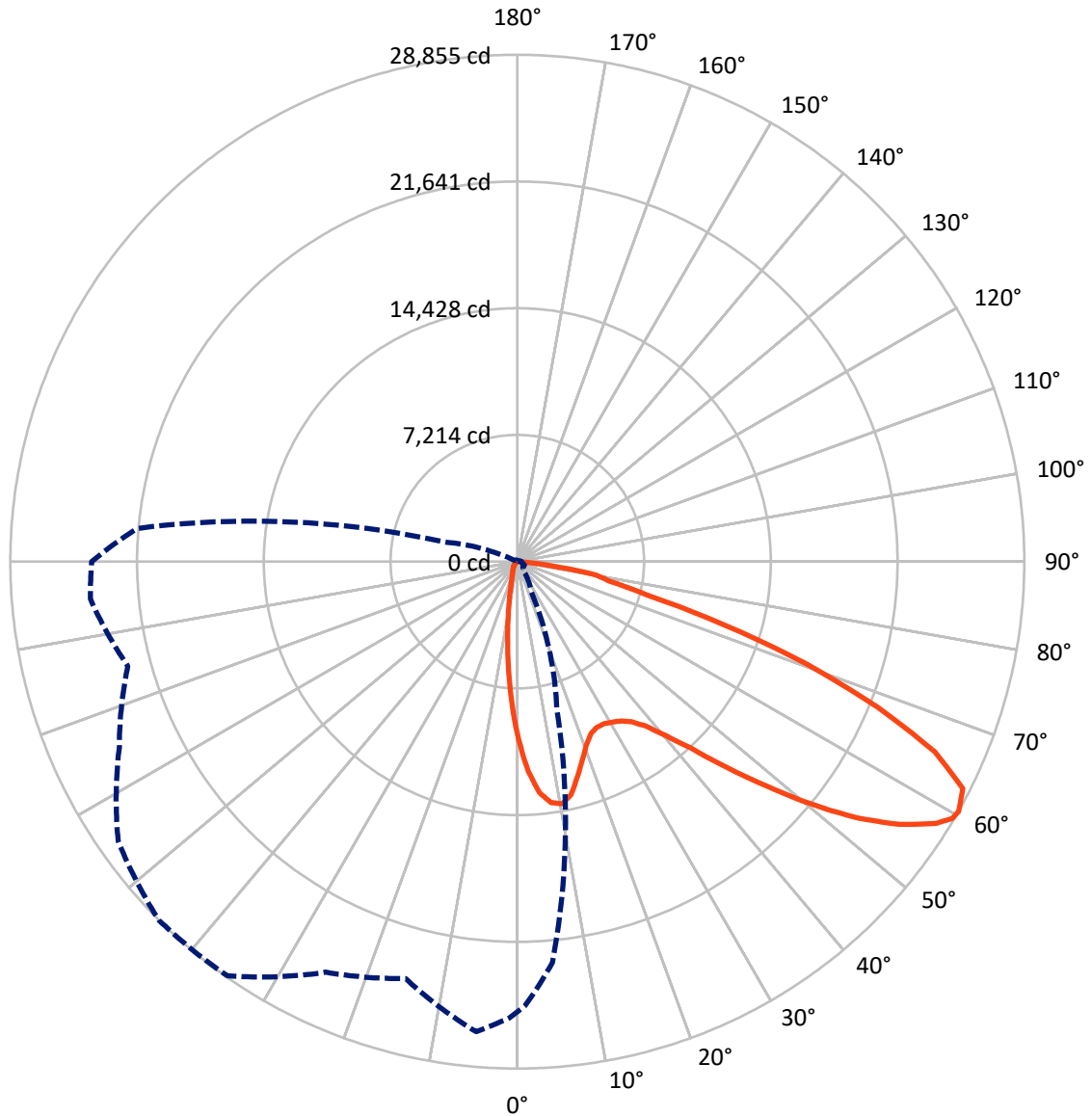
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 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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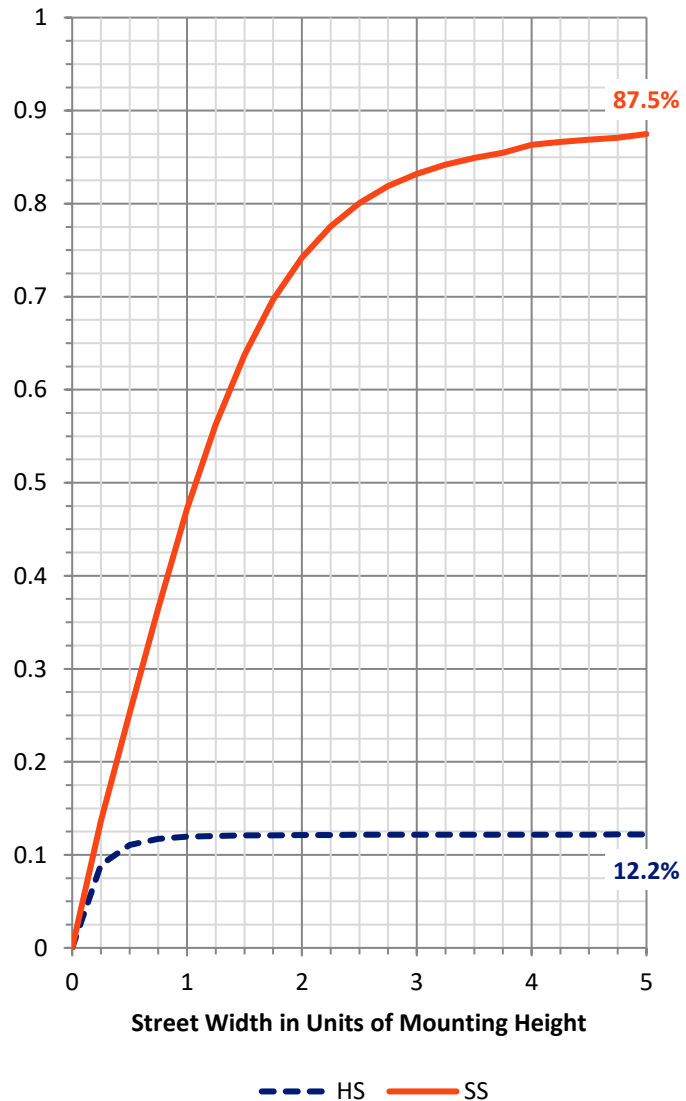
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3791.3	0.0	3791.3
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	26947.6	0.0	26947.6
	% Fixture	87.7	0.0	87.7
Total	Lumens	30739.0	0.0	30739.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	755.6	2.5
10°-20°	1500.7	4.9
20°-30°	2200.5	7.2
30°-40°	3272.5	10.6
40°-50°	4762.4	15.5
50°-60°	6867.8	22.3
60°-70°	7553.9	24.6
70°-80°	3383.5	11.0
80°-90°	442.1	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°	30739.0	100.0
0°-180°	30739.0	100.0



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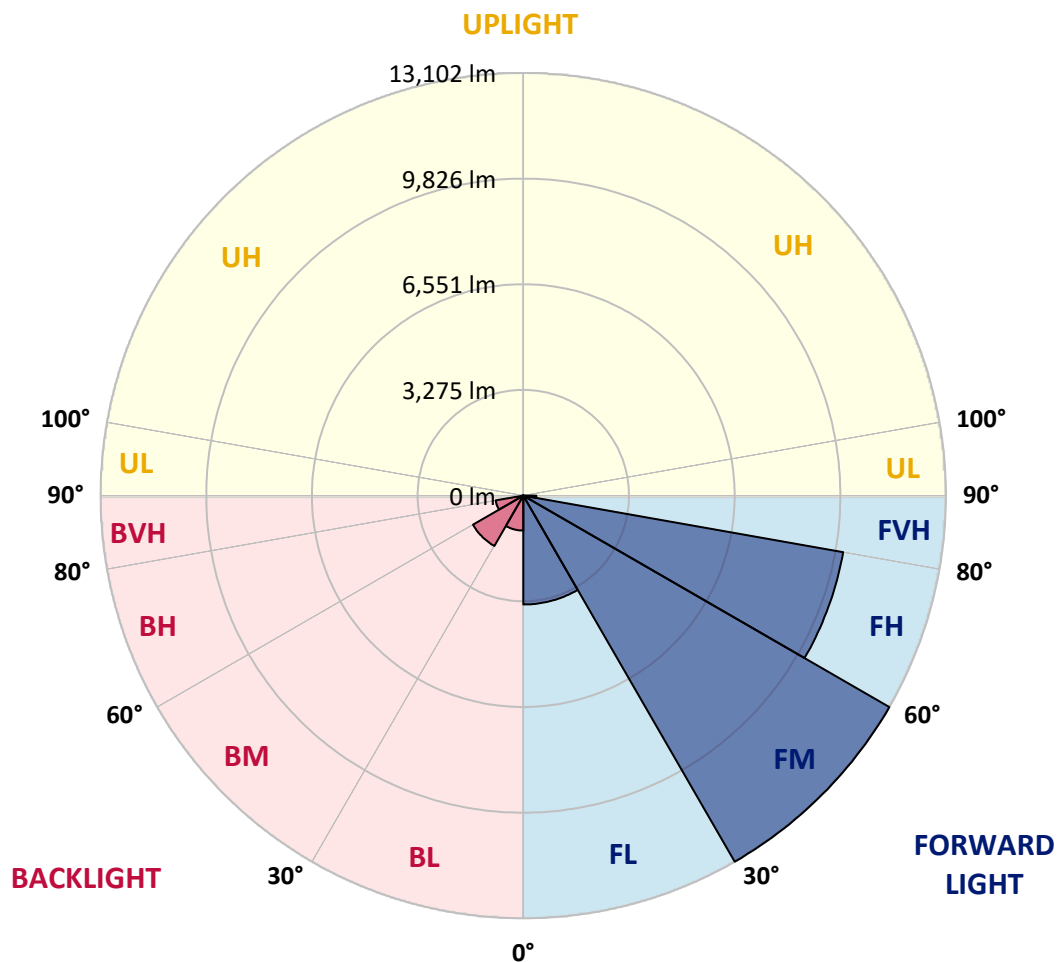
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3373.5	11.0			
FM	(30°-60°)	13101.9	42.6			
FH	(60°-80°)	10067.9	32.8			G4/12000
FVH	(80°-90°)	404.3	1.3			G3/500
BL	(0°-30°)	1083.3	3.5	B3/2500		
BM	(30°-60°)	1800.8	5.9	B2/2500		
BH	(60°-80°)	869.4	2.8	B2/1000		G2/1000
BVH	(80°-90°)	37.8	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10159.7	10159.7	10159.7	10159.7	10159.7	10159.7	10159.7	10159.7	10159.7	10159.7	10159.7
2.5°	11169.1	11120.0	11007.9	10666.7	10370.0	9982.1	9589.5	9281.1	9091.8	8743.7	8584.8
5°	10820.9	10844.3	10519.5	9818.5	9038.1	8505.3	7923.5	7460.9	6951.5	6629.0	6290.2
7.5°	9912.0	9865.3	9512.4	8535.7	7587.0	6816.0	6079.9	5481.7	5105.5	4804.1	4551.8
10°	9133.9	9098.8	8647.9	7390.8	6372.0	5794.8	5297.1	4773.7	4369.5	3927.9	3575.0
12.5°	8645.5	8566.1	8047.4	6734.2	5904.7	5367.2	4825.1	4280.7	3722.3	3276.0	2848.4
15°	8482.0	8367.5	7790.3	6507.5	5605.6	4923.3	4243.3	3617.1	2974.5	2481.5	2159.0
17.5°	8778.7	8589.5	7974.9	6467.8	5248.1	4343.8	3507.3	2691.8	2023.5	1647.3	1448.7
20°	9458.7	9241.4	8442.3	6428.1	4850.8	3694.2	2666.1	1902.0	1399.6	1194.0	1084.2
22.5°	10468.1	10169.0	9133.9	6491.2	4484.0	3061.0	1925.4	1343.6	1112.2	983.7	906.6
25°	11680.8	11430.8	10010.1	6715.5	4194.3	2563.3	1488.4	1098.2	937.0	857.5	799.1
27.5°	13010.4	12610.8	11143.4	6984.2	3930.2	2177.7	1306.2	981.4	834.2	761.7	731.4
30°	13956.7	13645.9	12092.1	7171.1	3600.8	1888.0	1194.0	967.4	836.5	750.1	694.0
32.5°	14891.4	14494.1	12886.5	7257.6	3360.1	1687.0	1032.8	843.5	733.7	689.3	633.2
35°	15891.4	15475.5	13678.6	7210.8	3180.2	1553.9	937.0	752.4	628.6	553.8	497.7
37.5°	16903.2	16463.9	14466.1	7042.6	3068.0	1500.1	862.2	715.0	593.5	516.4	455.6
40°	18104.2	17517.7	15204.5	6904.7	2951.2	1472.1	813.1	691.6	567.8	486.0	425.3
42.5°	19085.6	18527.2	15903.1	6832.3	2871.7	1406.7	813.1	673.0	551.4	460.3	397.2
45°	20015.6	19436.1	16657.9	6890.7	2839.0	1324.9	822.5	670.6	539.8	441.6	378.5
47.5°	20793.7	20291.3	17433.6	7110.4	2796.9	1236.1	773.4	703.3	532.8	425.3	359.8
50°	21712.0	21226.0	18459.4	7554.3	2722.2	1147.3	712.7	757.1	530.4	411.2	343.5
52.5°	23006.5	22480.7	19875.4	8059.0	2603.0	1011.8	656.6	750.1	521.1	387.9	327.1
55°	24588.4	24163.1	21515.7	8664.2	2439.4	859.9	567.8	665.9	493.0	348.2	299.1
57.5°	25602.5	25240.3	22744.8	8925.9	2189.4	703.3	500.0	558.5	451.0	310.8	266.4
59°	25721.7	25394.5	23001.8	8839.5	2025.9	642.6	467.3	479.0	439.3	289.7	247.7
60°	25621.2	25282.4	22899.0	8671.2	1874.0	600.5	439.3	425.3	441.6	278.1	233.7
62.5°	24976.3	24396.8	21901.3	7818.4	1638.0	551.4	390.2	348.2	390.2	250.0	208.0
65°	23730.8	22861.6	19926.8	6617.3	1544.5	523.4	331.8	292.1	296.8	219.6	179.9
67.5°	21555.4	20459.6	17298.1	5376.6	1504.8	525.7	280.4	261.7	229.0	186.9	158.9
70°	18115.9	17022.4	13879.6	4423.2	1486.1	525.7	238.3	224.3	191.6	156.6	137.9
72.5°	12837.5	11659.8	9362.9	3474.6	1338.9	523.4	203.3	203.3	156.6	130.9	112.2
75°	7252.9	7262.3	5886.0	2458.1	1112.2	432.3	163.6	161.2	114.5	100.5	84.1
77.5°	4227.0	4152.2	3967.6	1056.2	516.4	196.3	114.5	98.1	79.4	72.4	60.8
80°	2173.1	1787.5	1740.8	383.2	184.6	123.8	79.4	56.1	51.4	46.7	42.1
82.5°	642.6	644.9	574.8	154.2	102.8	81.8	39.7	30.4	28.0	25.7	25.7
85°	44.4	28.0	32.7	46.7	63.1	32.7	2.3	7.0	7.0	9.3	11.7
87.5°	4.7	2.3	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°	10159.7	10159.7	10159.7	10159.7	10159.7	10159.7	10159.7	10159.7	10159.7	10159.7	10159.7
2.5°	8409.5	8512.4	8320.7	8325.4	8166.5	8217.9	8031.0	8091.8	7981.9	8066.1	8313.7
5°	6327.6	6351.0	6196.7	6147.7	6171.0	6266.8	6304.2	6133.7	6206.1	6063.6	6054.2
7.5°	4458.3	4486.3	4397.5	4385.9	4554.1	4514.4	4586.8	4411.6	4245.7	4318.1	4184.9
10°	3462.9	3346.1	3163.8	3112.4	3079.7	3100.7	3100.7	2941.8	2918.5	2855.4	2951.2
12.5°	2733.9	2591.3	2418.4	2184.8	2126.3	2121.7	2035.2	1895.0	1850.6	1796.9	1876.3
15°	1986.1	1927.7	1782.9	1652.0	1518.8	1493.1	1352.9	1238.4	1086.5	1065.5	1058.5
17.5°	1397.3	1310.9	1308.5	1233.7	1156.6	1105.2	974.4	843.5	785.1	778.1	778.1
20°	1046.8	1016.4	967.4	958.0	934.7	876.2	759.4	689.3	661.3	663.6	673.0
22.5°	880.9	859.9	815.5	794.5	785.1	733.7	647.2	600.5	586.5	586.5	588.8
25°	787.4	768.8	719.7	687.0	675.3	637.9	570.1	535.1	523.4	523.4	523.4
27.5°	717.3	694.0	642.6	614.5	593.5	551.4	509.4	474.3	462.7	462.7	465.0
30°	668.3	642.6	595.8	558.5	525.7	488.4	453.3	422.9	408.9	406.6	408.9
32.5°	602.9	579.5	532.8	509.4	472.0	427.6	399.6	371.5	357.5	359.8	357.5
35°	469.7	462.7	429.9	437.0	415.9	378.5	352.8	322.5	306.1	303.8	308.4
37.5°	427.6	399.6	362.2	364.5	357.5	343.5	301.4	268.7	257.0	257.0	259.4
40°	394.9	366.9	324.8	303.8	306.1	306.1	261.7	226.7	215.0	212.6	217.3
42.5°	366.9	338.8	292.1	257.0	247.7	259.4	222.0	186.9	175.2	170.6	175.2
45°	348.2	317.8	264.0	224.3	196.3	210.3	182.3	154.2	140.2	140.2	137.9
47.5°	329.5	301.4	243.0	193.9	163.6	156.6	149.5	123.8	109.8	107.5	109.8
50°	313.1	285.1	219.6	168.2	137.9	121.5	121.5	98.1	88.8	84.1	86.5
52.5°	296.8	266.4	198.6	149.5	119.2	98.1	86.5	79.4	72.4	70.1	72.4
55°	273.4	243.0	177.6	128.5	102.8	81.8	67.8	65.4	60.8	56.1	60.8
57.5°	245.3	217.3	156.6	109.8	81.8	63.1	56.1	53.7	49.1	46.7	46.7
59°	229.0	203.3	144.9	95.8	72.4	56.1	51.4	49.1	44.4	39.7	42.1
60°	219.6	198.6	137.9	88.8	65.4	51.4	46.7	44.4	39.7	37.4	39.7
62.5°	193.9	177.6	121.5	72.4	51.4	37.4	32.7	35.0	32.7	30.4	32.7
65°	170.6	156.6	102.8	56.1	39.7	25.7	23.4	30.4	28.0	25.7	28.0
67.5°	151.9	135.5	86.5	42.1	28.0	14.0	16.4	25.7	25.7	23.4	25.7
70°	130.9	116.8	70.1	30.4	14.0	7.0	11.7	18.7	23.4	21.0	23.4
72.5°	107.5	91.1	53.7	21.0	7.0	0.0	7.0	16.4	23.4	21.0	23.4
75°	84.1	67.8	39.7	11.7	0.0	0.0	2.3	14.0	23.4	21.0	23.4
77.5°	60.8	49.1	23.4	2.3	0.0	0.0	2.3	14.0	23.4	21.0	23.4
80°	39.7	35.0	9.3	0.0	0.0	0.0	2.3	14.0	23.4	23.4	25.7
82.5°	25.7	18.7	0.0	0.0	0.0	0.0	4.7	18.7	25.7	28.0	28.0
85°	11.7	0.0	0.0	0.0	0.0	0.0	9.3	23.4	30.4	30.4	30.4
87.5°	0.0	0.0	0.0	0.0	0.0	4.7	16.4	28.0	35.0	35.0	35.0
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°	10159.7	10159.7	10159.7	10159.7	10159.7	10159.7	10159.7	10159.7	10159.7	10159.7	10159.7
2.5°	8355.8	8503.0	8711.0	9031.1	9290.5	9699.4	10012.5	10440.1	10872.4	11003.2	11206.5
5°	6150.0	6339.3	6811.3	7241.2	7512.3	8376.8	8923.6	9785.8	10559.2	10930.8	11335.0
7.5°	4271.4	4495.7	4855.5	5456.0	6026.2	6729.5	7612.7	8598.8	9732.1	10262.5	10832.6
10°	2997.9	3278.3	3785.3	4278.4	4995.7	5664.0	6535.6	7624.4	8874.5	9500.7	10215.8
12.5°	1892.7	2142.7	2813.3	3367.1	4262.0	5037.8	5841.6	6827.6	8276.4	8918.9	9669.0
15°	1081.9	1292.2	1605.3	2315.6	3308.7	4334.5	5336.9	6481.8	7970.3	8762.4	9573.2
17.5°	806.1	862.2	1002.4	1404.3	2308.6	3507.3	4871.9	6376.7	8178.2	9108.2	10033.5
20°	677.6	715.0	780.4	939.3	1472.1	2701.1	4418.6	6395.4	8851.2	10019.5	10898.1
22.5°	607.5	630.9	684.6	787.4	1004.8	1967.4	3888.2	6505.2	9666.6	11138.7	12152.8
25°	532.8	563.1	609.9	698.7	836.5	1364.6	3364.8	6750.5	10809.3	12559.4	13512.7
27.5°	474.3	502.4	549.1	630.9	733.7	1042.1	2754.9	6960.8	12015.0	13989.4	14769.9
30°	415.9	444.0	490.7	556.1	649.6	843.5	2098.3	7084.7	13185.6	15061.9	15662.4
32.5°	366.9	390.2	434.6	493.0	570.1	715.0	1654.3	6956.2	14080.5	16036.3	16438.2
35°	317.8	345.8	383.2	437.0	504.7	609.9	1376.3	6512.2	14849.3	17038.7	17183.6
37.5°	266.4	299.1	338.8	387.9	441.6	560.8	1105.2	6021.5	15671.8	18288.8	18050.5
40°	224.3	254.7	292.1	345.8	394.9	514.1	850.5	5498.1	16559.7	19461.8	18996.8
42.5°	182.3	215.0	259.4	308.4	390.2	448.6	658.9	4956.0	17356.5	20482.9	19852.0
45°	144.9	172.9	219.6	282.7	387.9	385.5	509.4	4420.9	17957.0	21212.0	20489.9
47.5°	114.5	137.9	184.6	275.7	357.5	327.1	408.9	4089.1	18587.9	21868.5	20978.3
50°	91.1	114.5	158.9	287.4	313.1	280.4	343.5	4142.8	19197.8	22202.7	21179.2
52.5°	77.1	100.5	137.9	226.7	240.7	245.3	301.4	4390.5	19985.2	22560.2	21578.8
55°	67.8	88.8	116.8	158.9	186.9	219.6	275.7	4570.5	21039.0	23326.6	22459.7
57.5°	53.7	77.1	105.1	135.5	154.2	191.6	254.7	4584.5	21992.4	24310.3	23630.4
59°	49.1	70.1	98.1	128.5	137.9	172.9	240.7	4465.3	22027.4	24457.5	24167.8
60°	44.4	67.8	93.5	119.2	130.9	163.6	229.0	4327.4	21709.7	24223.9	24389.8
62.5°	37.4	58.4	81.8	95.8	112.2	135.5	198.6	3827.4	20169.8	23165.4	23978.5
65°	32.7	51.4	70.1	79.4	93.5	116.8	175.2	3063.3	18468.7	21730.7	22800.9
67.5°	30.4	46.7	60.8	67.8	81.8	107.5	156.6	2163.7	16265.3	19910.4	21032.0
70°	28.0	44.4	53.7	63.1	72.4	91.1	133.2	1261.8	12529.0	16718.6	17903.3
72.5°	28.0	42.1	46.7	53.7	63.1	81.8	123.8	682.3	8566.1	12753.3	14283.8
75°	28.0	39.7	42.1	46.7	56.1	74.8	109.8	357.5	5537.8	8860.5	10935.4
77.5°	28.0	37.4	42.1	44.4	53.7	65.4	95.8	224.3	3689.5	6206.1	7390.8
80°	30.4	37.4	39.7	44.4	51.4	60.8	79.4	149.5	2168.4	3733.9	4498.0
82.5°	32.7	37.4	42.1	46.7	53.7	58.4	70.1	93.5	1000.1	2469.8	2794.6
85°	35.0	39.7	44.4	49.1	56.1	58.4	65.4	67.8	163.6	1114.6	1507.1
87.5°	37.4	42.1	46.7	51.4	60.8	60.8	60.8	60.8	56.1	119.2	303.8
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: P459368

CATALOG NUMBER: GALN-SA8B-735-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10159.7	10159.7	10159.7	10159.7	10159.7	10159.7	10159.7	10159.7	10159.7	10159.7
2.5°	11463.5	11727.6	11912.2	11958.9	11825.7	11764.9	11596.7	11335.0	11176.1	11169.1
5°	12080.4	12699.6	13129.5	13202.0	12944.9	12510.3	11993.9	11328.0	10937.8	10820.9
7.5°	11975.2	13059.4	13751.1	13851.6	13419.3	12589.8	11589.7	10517.2	10091.9	9912.0
10°	11543.0	12865.5	13853.9	14012.8	13435.6	12267.3	10996.2	9799.8	9271.8	9133.9
12.5°	11173.8	12510.3	13388.9	13608.5	13171.6	12005.6	10641.0	9339.5	8774.1	8645.5
15°	11012.5	12089.7	12627.2	12739.3	12666.9	11842.1	10603.6	9269.4	8622.2	8482.0
17.5°	11173.8	11732.2	11800.0	11914.5	12075.7	11825.7	10963.5	9650.3	8951.6	8778.7
20°	11596.7	11421.5	11141.1	11190.1	11559.3	11893.5	11603.7	10493.8	9643.3	9458.7
22.5°	12316.4	11344.4	10708.8	10666.7	11134.1	12120.1	12543.0	11636.4	10650.4	10468.1
25°	13199.6	11538.3	10549.9	10458.8	10968.2	12451.9	13564.2	13036.1	11958.9	11680.8
27.5°	14162.3	11940.2	10549.9	10461.1	10954.1	12746.3	14438.1	14274.5	13314.1	13010.4
30°	14690.4	12272.0	10701.8	10601.3	11127.0	12916.9	14905.4	15375.0	14332.9	13956.7
32.5°	15162.4	12732.3	10998.5	10809.3	11489.2	13169.3	15323.6	16309.7	15143.7	14891.4
35°	15597.0	13225.3	11407.4	11187.8	11965.9	13515.1	15786.3	17291.1	16272.3	15891.4
37.5°	16076.0	13797.8	12045.3	11858.4	12762.7	14188.0	16335.4	18580.9	17382.2	16903.2
40°	16597.1	14461.4	13094.5	13015.0	14029.1	14949.8	17029.4	19957.2	18648.7	18104.2
42.5°	17127.5	15225.5	14379.6	14510.5	15463.8	16017.6	17742.1	21015.7	19686.1	19085.6
45°	17608.9	16202.2	16050.3	16697.6	17136.9	17059.8	18270.1	21761.1	20590.4	20015.6
47.5°	18216.4	17625.2	18071.5	19069.3	19080.9	18193.0	18669.7	22370.9	21368.5	20793.7
50°	18896.3	19305.3	20681.5	21698.0	21424.6	19307.6	19137.0	23092.9	22172.3	21712.0
52.5°	19683.8	21186.2	23092.9	24221.5	23583.6	20522.6	19915.1	23873.4	23448.1	23006.5
55°	20599.8	22469.1	25497.3	26396.9	25754.4	22032.1	21097.5	24931.9	24889.8	24588.4
57.5°	21634.9	23824.3	26890.0	28107.4	27534.9	23803.3	22749.5	25929.6	25770.7	25602.5
59°	22452.7	24520.6	27504.5	28766.3	28420.5	25044.0	23859.4	26551.2	25974.0	25721.7
60°	22948.1	24992.6	27731.2	28855.1	28775.6	25782.4	24562.7	26854.9	25971.7	25621.2
62.5°	24417.8	25817.5	27644.7	28460.2	28771.0	27198.4	26625.9	27189.1	25490.3	24976.3
65°	24941.2	25544.1	26212.3	26111.9	26378.2	27126.0	27943.8	26822.2	24462.2	23730.8
67.5°	23922.4	22546.2	22782.2	22111.6	21980.7	24116.4	27408.7	25027.7	22450.4	21555.4
70°	20165.1	17272.4	17153.2	17461.7	16615.8	19524.9	24611.8	21571.8	19130.0	18115.9
72.5°	15872.7	12206.6	11201.8	12337.4	12311.7	14896.0	20445.5	15307.3	12923.9	12837.5
75°	12482.3	8498.3	7458.5	7643.1	7998.3	10783.6	16284.0	9720.4	7958.6	7252.9
77.5°	8379.2	6021.5	5617.3	5390.6	5773.8	6923.4	10302.2	5271.4	4463.0	4227.0
80°	4829.8	4374.2	4967.7	4509.7	4715.3	4362.5	5124.2	2418.4	2007.2	2173.1
82.5°	3142.8	2490.9	2654.4	1972.1	2696.5	2719.8	1645.0	715.0	605.2	642.6
85°	1965.1	1168.3	656.6	467.3	930.0	1710.4	514.1	44.4	51.4	44.4
87.5°	509.4	193.9	81.8	121.5	149.5	133.2	119.2	7.0	2.3	4.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)