

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: P459281

Luminaire Tested: **GALN-SA7C-735-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459281
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-SA7C-735-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 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: 32759 lumens
Efficiency: N/A
Efficacy: 86.9 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

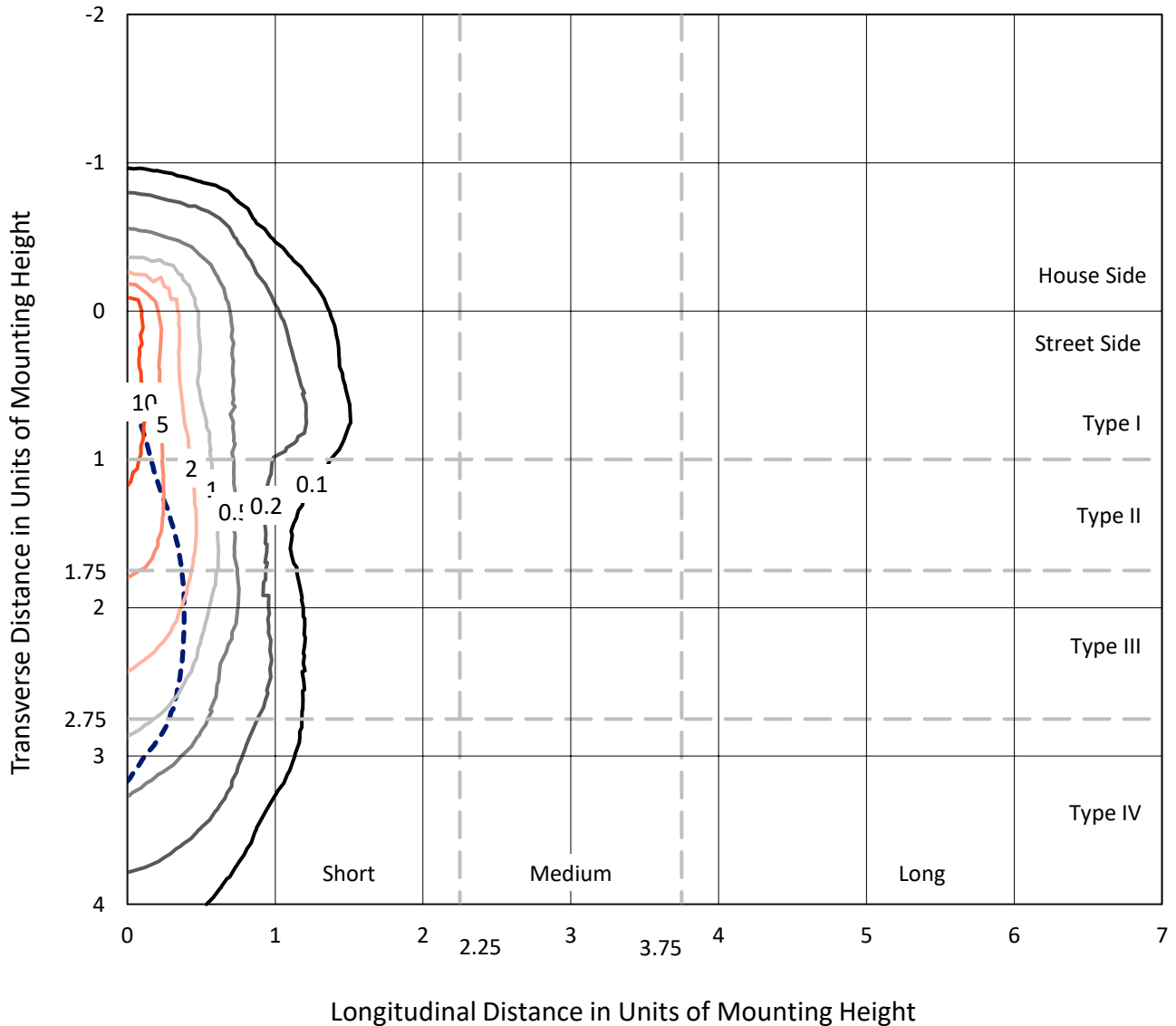
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

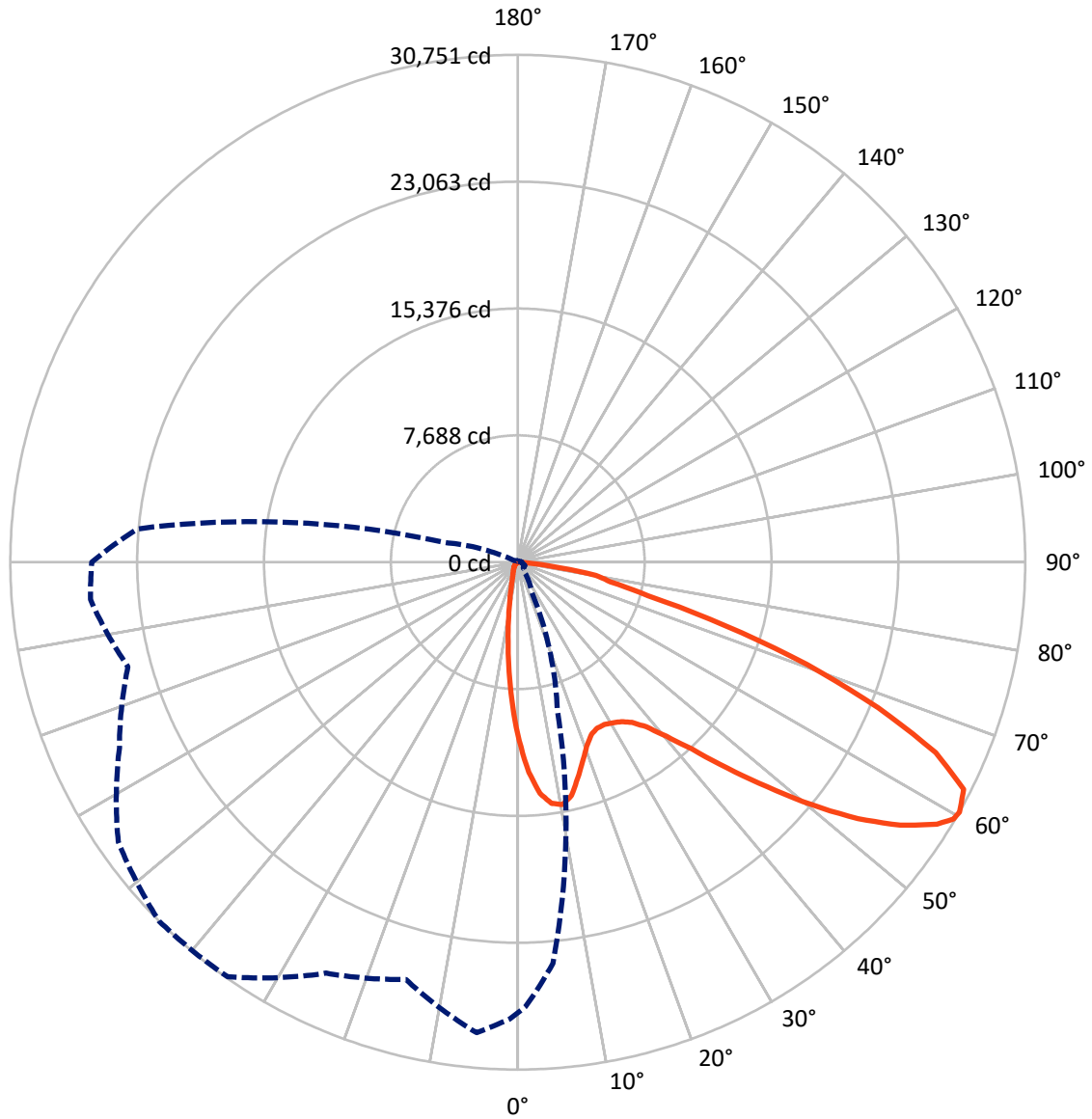
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.3 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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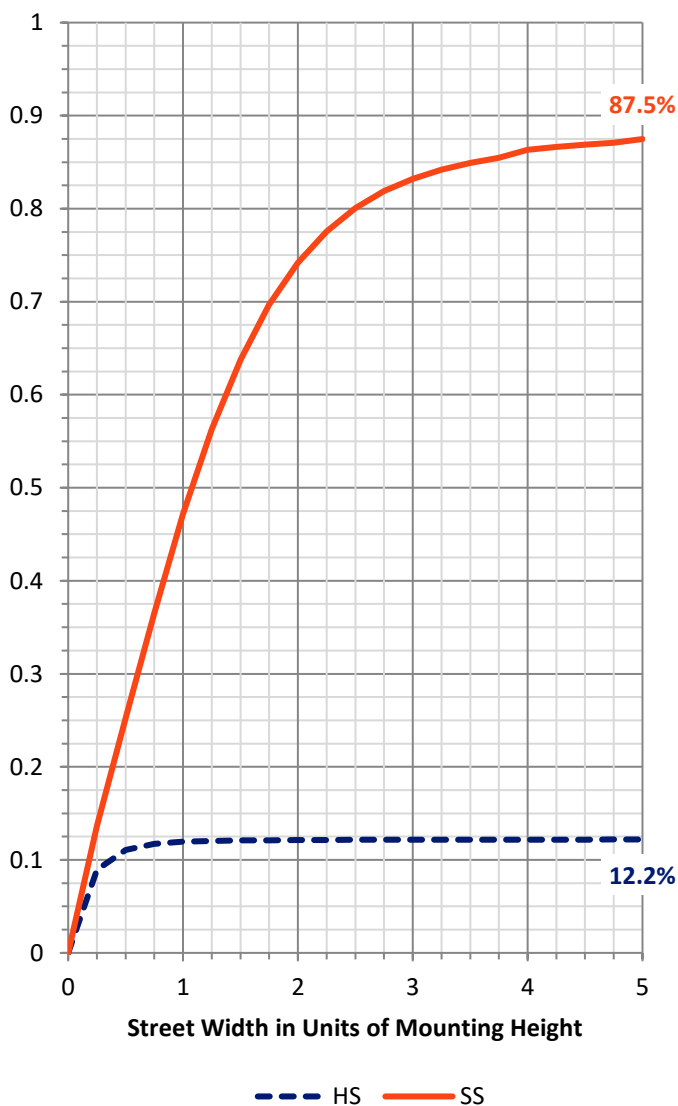
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4040.5	0.0	4040.5
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	28718.5	0.0	28718.5
	% Fixture	87.7	0.0	87.7
Total	Lumens	32759.0	0.0	32759.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	805.3	2.5
10°-20°	1599.3	4.9
20°-30°	2345.1	7.2
30°-40°	3487.5	10.6
40°-50°	5075.4	15.5
50°-60°	7319.1	22.3
60°-70°	8050.3	24.6
70°-80°	3605.9	11.0
80°-90°	471.2	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°	32759.0	100.0
0°-180°	32759.0	100.0

Coefficient of Utilization



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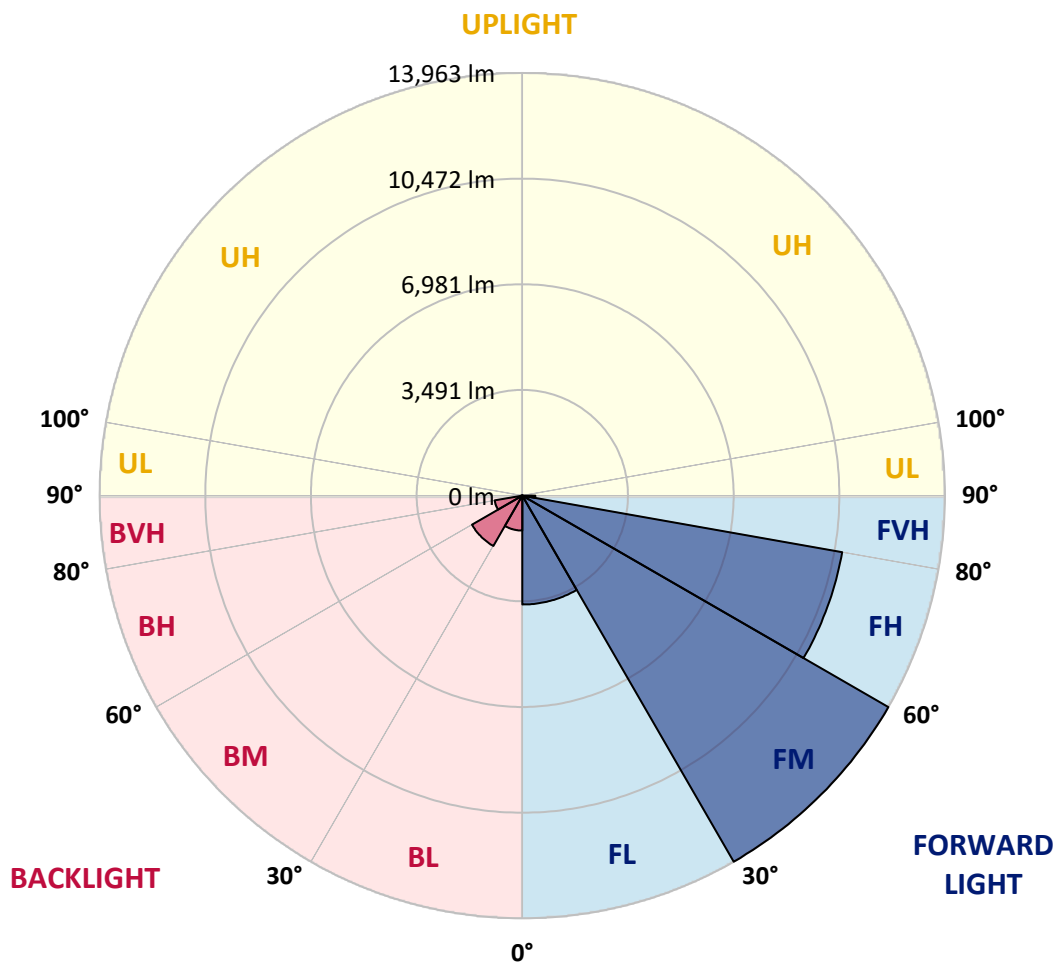
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3595.2	11.0			
FM	(30°-60°)	13962.9	42.6			
FH	(60°-80°)	10729.5	32.8			G4/12000
FVH	(80°-90°)	430.9	1.3			G3/500
BL	(0°-30°)	1154.5	3.5	B3/2500		
BM	(30°-60°)	1919.1	5.9	B2/2500		
BH	(60°-80°)	926.6	2.8	B2/1000		G2/1000
BVH	(80°-90°)	40.3	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°	10827.3	10827.3	10827.3	10827.3	10827.3	10827.3	10827.3	10827.3	10827.3	10827.3	10827.3
2.5°	11903.1	11850.8	11731.3	11367.7	11051.4	10638.1	10219.7	9891.0	9689.3	9318.3	9148.9
5°	11532.0	11556.9	11210.8	10463.8	9632.0	9064.3	8444.2	7951.2	7408.3	7064.7	6703.6
7.5°	10563.4	10513.6	10137.5	9096.6	8085.6	7263.9	6479.5	5842.0	5441.1	5119.8	4850.9
10°	9734.1	9696.8	9216.2	7876.5	6790.7	6175.7	5645.2	5087.4	4656.6	4186.0	3810.0
12.5°	9213.7	9129.0	8576.2	7176.7	6292.7	5720.0	5142.2	4562.0	3966.9	3491.2	3035.5
15°	9039.4	8917.3	8302.3	6935.2	5974.0	5246.8	4522.2	3854.8	3170.0	2644.6	2300.9
17.5°	9355.6	9153.9	8499.0	6892.8	5593.0	4629.3	3737.8	2868.7	2156.5	1755.6	1543.9
20°	10080.3	9848.7	8997.0	6850.5	5169.6	3937.0	2841.3	2027.0	1491.6	1272.5	1155.4
22.5°	11156.0	10837.3	9734.1	6917.7	4778.7	3262.1	2051.9	1431.9	1185.3	1048.4	966.2
25°	12448.4	12182.0	10667.9	7156.8	4469.9	2731.7	1586.2	1170.4	998.6	913.9	851.6
27.5°	13865.3	13439.5	11875.7	7443.2	4188.5	2320.9	1392.0	1045.9	889.0	811.8	779.4
30°	14873.9	14542.7	12886.7	7642.4	3837.4	2012.1	1272.5	1030.9	891.5	799.3	739.6
32.5°	15869.9	15446.6	13733.4	7734.5	3580.9	1797.9	1100.7	899.0	781.9	734.6	674.8
35°	16935.7	16492.5	14577.5	7684.7	3389.1	1656.0	998.6	801.8	669.9	590.2	530.4
37.5°	18014.0	17545.8	15416.7	7505.4	3269.6	1598.7	918.9	762.0	632.5	550.3	485.6
40°	19293.9	18668.9	16203.6	7358.5	3145.1	1568.8	866.6	737.1	605.1	518.0	453.2
42.5°	20339.8	19744.7	16948.2	7281.3	3060.4	1499.1	866.6	717.2	587.7	490.6	423.3
45°	21330.9	20713.3	17752.5	7343.6	3025.6	1411.9	876.5	714.7	575.2	470.6	403.4
47.5°	22160.1	21624.8	18579.3	7577.6	2980.7	1317.3	824.3	749.5	567.8	453.2	383.5
50°	23138.8	22620.8	19672.4	8050.8	2901.1	1222.7	759.5	806.8	565.3	438.3	366.1
52.5°	24518.3	23958.1	21181.5	8588.6	2774.1	1078.2	699.7	799.3	555.3	413.4	348.6
55°	26204.2	25751.0	22929.6	9233.6	2599.8	916.4	605.1	709.7	525.4	371.0	318.7
57.5°	27284.9	26899.0	24239.4	9512.5	2333.3	749.5	532.9	595.2	480.6	331.2	283.9
59°	27411.9	27063.3	24513.4	9420.4	2159.0	684.8	498.0	510.5	468.2	308.8	264.0
60°	27304.9	26943.8	24403.8	9241.1	1997.1	640.0	468.2	453.2	470.6	296.3	249.0
62.5°	26617.6	26000.0	23340.5	8332.2	1745.6	587.7	415.9	371.0	415.9	266.4	221.6
65°	25290.3	24364.0	21236.3	7052.2	1646.0	557.8	353.6	311.3	316.3	234.1	191.7
67.5°	22971.9	21804.0	18434.8	5729.9	1603.7	560.3	298.8	278.9	244.0	199.2	169.3
70°	19306.4	18141.0	14791.7	4713.9	1583.8	560.3	254.0	239.1	204.2	166.8	146.9
72.5°	13681.1	12426.0	9978.2	3702.9	1426.9	557.8	216.6	216.6	166.8	139.5	119.5
75°	7729.5	7739.5	6272.8	2619.7	1185.3	460.7	174.3	171.8	122.0	107.1	89.6
77.5°	4504.7	4425.1	4228.3	1125.6	550.3	209.2	122.0	104.6	84.7	77.2	64.7
80°	2315.9	1905.0	1855.2	408.4	196.7	132.0	84.7	59.8	54.8	49.8	44.8
82.5°	684.8	687.3	612.6	164.4	109.6	87.2	42.3	32.4	29.9	27.4	27.4
85°	47.3	29.9	34.9	49.8	67.2	34.9	2.5	7.5	7.5	10.0	12.5
87.5°	5.0	2.5	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°	10827.3	10827.3	10827.3	10827.3	10827.3	10827.3	10827.3	10827.3	10827.3	10827.3	10827.3
2.5°	8962.2	9071.7	8867.5	8872.5	8703.2	8758.0	8558.8	8623.5	8506.5	8596.1	8860.1
5°	6743.4	6768.3	6604.0	6551.7	6576.6	6678.7	6718.5	6536.7	6613.9	6462.0	6452.1
7.5°	4751.3	4781.2	4686.5	4674.1	4853.4	4811.0	4888.2	4701.5	4524.7	4601.9	4459.9
10°	3690.5	3565.9	3371.7	3316.9	3282.1	3304.5	3304.5	3135.1	3110.2	3043.0	3145.1
12.5°	2913.5	2761.6	2577.3	2328.3	2266.1	2261.1	2168.9	2019.5	1972.2	1915.0	1999.6
15°	2116.7	2054.4	1900.0	1760.6	1618.6	1591.2	1441.8	1319.8	1157.9	1135.5	1128.1
17.5°	1489.1	1397.0	1394.5	1314.8	1232.6	1177.9	1038.4	899.0	836.7	829.2	829.2
20°	1115.6	1083.2	1030.9	1021.0	996.1	933.8	809.3	734.6	704.7	707.2	717.2
22.5°	938.8	916.4	869.1	846.7	836.7	781.9	689.8	640.0	625.0	625.0	627.5
25°	839.2	819.3	767.0	732.1	719.7	679.8	607.6	570.3	557.8	557.8	557.8
27.5°	764.5	739.6	684.8	654.9	632.5	587.7	542.9	505.5	493.1	493.1	495.5
30°	712.2	684.8	635.0	595.2	560.3	520.4	483.1	450.7	435.8	433.3	435.8
32.5°	642.5	617.6	567.8	542.9	503.0	455.7	425.8	395.9	381.0	383.5	381.0
35°	500.5	493.1	458.2	465.7	443.3	403.4	376.0	343.6	326.2	323.7	328.7
37.5°	455.7	425.8	386.0	388.5	381.0	366.1	321.2	286.4	273.9	273.9	276.4
40°	420.8	391.0	346.1	323.7	326.2	326.2	278.9	241.5	229.1	226.6	231.6
42.5°	391.0	361.1	311.3	273.9	264.0	276.4	236.6	199.2	186.8	181.8	186.8
45°	371.0	338.7	281.4	239.1	209.2	224.1	194.2	164.4	149.4	149.4	146.9
47.5°	351.1	321.2	259.0	206.7	174.3	166.8	159.4	132.0	117.0	114.5	117.0
50°	333.7	303.8	234.1	179.3	146.9	129.5	129.5	104.6	94.6	89.6	92.1
52.5°	316.3	283.9	211.7	159.4	127.0	104.6	92.1	84.7	77.2	74.7	77.2
55°	291.4	259.0	189.3	137.0	109.6	87.2	72.2	69.7	64.7	59.8	64.7
57.5°	261.5	231.6	166.8	117.0	87.2	67.2	59.8	57.3	52.3	49.8	49.8
59°	244.0	216.6	154.4	102.1	77.2	59.8	54.8	52.3	47.3	42.3	44.8
60°	234.1	211.7	146.9	94.6	69.7	54.8	49.8	47.3	42.3	39.8	42.3
62.5°	206.7	189.3	129.5	77.2	54.8	39.8	34.9	37.4	34.9	32.4	34.9
65°	181.8	166.8	109.6	59.8	42.3	27.4	24.9	32.4	29.9	27.4	29.9
67.5°	161.9	144.4	92.1	44.8	29.9	14.9	17.4	27.4	27.4	24.9	27.4
70°	139.5	124.5	74.7	32.4	14.9	7.5	12.5	19.9	24.9	22.4	24.9
72.5°	114.5	97.1	57.3	22.4	7.5	0.0	7.5	17.4	24.9	22.4	24.9
75°	89.6	72.2	42.3	12.5	0.0	0.0	2.5	14.9	24.9	22.4	24.9
77.5°	64.7	52.3	24.9	2.5	0.0	0.0	2.5	14.9	24.9	22.4	24.9
80°	42.3	37.4	10.0	0.0	0.0	0.0	2.5	14.9	24.9	24.9	27.4
82.5°	27.4	19.9	0.0	0.0	0.0	0.0	5.0	19.9	27.4	29.9	29.9
85°	12.5	0.0	0.0	0.0	0.0	0.0	10.0	24.9	32.4	32.4	32.4
87.5°	0.0	0.0	0.0	0.0	0.0	5.0	17.4	29.9	37.4	37.4	37.4
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°	10827.3	10827.3	10827.3	10827.3	10827.3	10827.3	10827.3	10827.3	10827.3	10827.3	10827.3
2.5°	8904.9	9061.8	9283.4	9624.6	9901.0	10336.8	10670.4	11126.1	11586.8	11726.3	11942.9
5°	6554.2	6755.9	7258.9	7717.1	8005.9	8927.3	9510.0	10428.9	11253.1	11649.1	12079.9
7.5°	4552.1	4791.1	5174.6	5814.6	6422.2	7171.7	8113.0	9163.9	10371.6	10936.9	11544.5
10°	3194.9	3493.7	4034.1	4559.5	5324.0	6036.2	6965.0	8125.5	9457.7	10125.1	10887.1
12.5°	2017.0	2283.5	2998.2	3588.4	4542.1	5368.8	6225.5	7276.3	8820.2	9505.0	10304.4
15°	1153.0	1377.1	1710.8	2467.8	3526.1	4619.3	5687.6	6907.8	8494.0	9338.2	10202.3
17.5°	859.1	918.9	1068.3	1496.6	2460.3	3737.8	5192.0	6795.7	8715.6	9706.7	10692.8
20°	722.2	762.0	831.7	1001.1	1568.8	2878.7	4708.9	6815.6	9432.8	10677.9	11614.2
22.5°	647.4	672.3	729.6	839.2	1070.8	2096.7	4143.7	6932.7	10301.9	11870.7	12951.4
25°	567.8	600.1	649.9	744.6	891.5	1454.3	3585.9	7194.1	11519.6	13384.7	14400.7
27.5°	505.5	535.4	585.2	672.3	781.9	1110.6	2935.9	7418.3	12804.5	14908.7	15740.4
30°	443.3	473.1	522.9	592.7	692.3	899.0	2236.2	7550.2	14052.1	16051.7	16691.7
32.5°	391.0	415.9	463.2	525.4	607.6	762.0	1763.0	7413.3	15005.8	17090.1	17518.4
35°	338.7	368.5	408.4	465.7	537.9	649.9	1466.7	6940.1	15825.1	18158.4	18312.8
37.5°	283.9	318.7	361.1	413.4	470.6	597.6	1177.9	6417.2	16701.7	19490.7	19236.7
40°	239.1	271.4	311.3	368.5	420.8	547.8	906.4	5859.4	17647.9	20740.7	20245.2
42.5°	194.2	229.1	276.4	328.7	415.9	478.1	702.2	5281.7	18497.1	21828.9	21156.6
45°	154.4	184.3	234.1	301.3	413.4	410.9	542.9	4711.4	19137.1	22605.9	21836.4
47.5°	122.0	146.9	196.7	293.8	381.0	348.6	435.8	4357.8	19809.4	23305.6	22356.9
50°	97.1	122.0	169.3	306.3	333.7	298.8	366.1	4415.1	20459.3	23661.7	22571.0
52.5°	82.2	107.1	146.9	241.5	256.5	261.5	321.2	4679.1	21298.5	24042.7	22996.8
55°	72.2	94.6	124.5	169.3	199.2	234.1	293.8	4870.8	22421.6	24859.5	23935.6
57.5°	57.3	82.2	112.1	144.4	164.4	204.2	271.4	4885.7	23437.6	25907.9	25183.2
59°	52.3	74.7	104.6	137.0	146.9	184.3	256.5	4758.7	23475.0	26064.8	25756.0
60°	47.3	72.2	99.6	127.0	139.5	174.3	244.0	4611.8	23136.3	25815.7	25992.5
62.5°	39.8	62.3	87.2	102.1	119.5	144.4	211.7	4078.9	21495.3	24687.7	25554.3
65°	34.9	54.8	74.7	84.7	99.6	124.5	186.8	3264.6	19682.4	23158.7	24299.2
67.5°	32.4	49.8	64.7	72.2	87.2	114.5	166.8	2305.9	17334.2	21218.9	22414.1
70°	29.9	47.3	57.3	67.2	77.2	97.1	141.9	1344.7	13352.4	17817.3	19079.8
72.5°	29.9	44.8	49.8	57.3	67.2	87.2	132.0	727.1	9129.0	13591.4	15222.5
75°	29.9	42.3	44.8	49.8	59.8	79.7	117.0	381.0	5901.7	9442.8	11654.1
77.5°	29.9	39.8	44.8	47.3	57.3	69.7	102.1	239.1	3932.0	6613.9	7876.5
80°	32.4	39.8	42.3	47.3	54.8	64.7	84.7	159.4	2310.9	3979.3	4793.6
82.5°	34.9	39.8	44.8	49.8	57.3	62.3	74.7	99.6	1065.8	2632.1	2978.3
85°	37.4	42.3	47.3	52.3	59.8	62.3	69.7	72.2	174.3	1187.8	1606.2
87.5°	39.8	44.8	49.8	54.8	64.7	64.7	64.7	64.7	59.8	127.0	323.7
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: P459281

CATALOG NUMBER: GALN-SA7C-735-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10827.3	10827.3	10827.3	10827.3	10827.3	10827.3	10827.3	10827.3	10827.3	10827.3
2.5°	12216.8	12498.2	12695.0	12744.8	12602.8	12538.1	12358.8	12079.9	11910.5	11903.1
5°	12874.2	13534.1	13992.3	14069.5	13795.6	13332.4	12782.1	12072.4	11656.5	11532.0
7.5°	12762.2	13917.6	14654.7	14761.8	14301.1	13417.1	12351.3	11208.3	10755.1	10563.4
10°	12301.5	13711.0	14764.3	14933.6	14318.6	13073.5	11718.8	10443.8	9881.0	9734.1
12.5°	11908.1	13332.4	14268.8	14502.8	14037.2	12794.6	11340.3	9953.3	9350.6	9213.7
15°	11736.2	12884.2	13457.0	13576.5	13499.3	12620.2	11300.5	9878.6	9188.8	9039.4
17.5°	11908.1	12503.2	12575.4	12697.4	12869.3	12602.8	11683.9	10284.5	9539.9	9355.6
20°	12358.8	12172.0	11873.2	11925.5	12318.9	12675.0	12366.3	11183.4	10277.0	10080.3
22.5°	13125.8	12089.8	11412.5	11367.7	11865.7	12916.6	13367.3	12401.1	11350.3	11156.0
25°	14067.0	12296.5	11243.2	11146.1	11688.9	13270.2	14455.5	13892.7	12744.8	12448.4
27.5°	15093.0	12724.8	11243.2	11148.6	11674.0	13584.0	15386.8	15212.5	14189.1	13865.3
30°	15655.8	13078.4	11405.0	11298.0	11858.3	13765.7	15884.9	16385.4	15274.8	14873.9
32.5°	16158.8	13569.0	11721.3	11519.6	12244.2	14034.7	16330.6	17381.5	16138.9	15869.9
35°	16622.0	14094.4	12157.1	11923.0	12752.2	14403.2	16823.7	18427.4	17341.6	16935.7
37.5°	17132.5	14704.5	12836.9	12637.7	13601.4	15120.4	17408.9	19801.9	18524.5	18014.0
40°	17687.8	15411.7	13955.0	13870.3	14951.1	15932.2	18148.5	21268.7	19874.2	19293.9
42.5°	18253.0	16226.0	15324.6	15464.0	16480.0	17070.2	18908.0	22396.7	20979.8	20339.8
45°	18766.0	17266.9	17105.1	17794.9	18263.0	18180.8	19470.7	23191.1	21943.5	21330.9
47.5°	19413.5	18783.5	19259.1	20322.4	20334.8	19388.6	19896.6	23841.0	22772.7	22160.1
50°	20138.1	20573.9	22040.6	23123.8	22832.5	20576.4	20394.6	24610.5	23629.4	23138.8
52.5°	20977.3	22578.5	24610.5	25813.2	25133.4	21871.3	21223.8	25442.2	24989.0	24518.3
55°	21953.5	23945.6	27172.9	28131.6	27446.8	23479.9	22483.9	26570.3	26525.4	26204.2
57.5°	23056.6	25389.9	28657.0	29954.4	29344.3	25367.5	24244.4	27633.6	27464.2	27284.9
59°	23928.2	26132.0	29311.9	30656.6	30288.1	26689.8	25427.3	28296.0	27680.9	27411.9
60°	24456.1	26635.0	29553.5	30751.3	30666.6	27476.7	26176.8	28619.7	27678.4	27304.9
62.5°	26022.4	27514.0	29461.4	30330.4	30661.6	28985.7	28375.6	28975.8	27165.4	26617.6
65°	26580.2	27222.7	27934.9	27827.8	28111.7	28908.5	29780.1	28584.8	26069.7	25290.3
67.5°	25494.5	24027.8	24279.3	23564.6	23425.2	25701.2	29209.9	26672.4	23925.7	22971.9
70°	21490.3	18407.4	18280.4	18609.1	17707.7	20808.0	26229.1	22989.4	20387.1	19306.4
72.5°	16915.8	13008.7	11937.9	13148.2	13120.8	15874.9	21789.1	16313.2	13773.2	13681.1
75°	13302.6	9056.8	7948.7	8145.4	8523.9	11492.2	17354.1	10359.2	8481.6	7729.5
77.5°	8929.8	6417.2	5986.4	5744.9	6153.2	7378.4	10979.2	5617.9	4756.3	4504.7
80°	5147.2	4661.6	5294.1	4806.1	5025.2	4649.2	5461.0	2577.3	2139.1	2315.9
82.5°	3349.3	2654.5	2828.8	2101.7	2873.7	2898.6	1753.1	762.0	645.0	684.8
85°	2094.2	1245.1	699.7	498.0	991.1	1822.8	547.8	47.3	54.8	47.3
87.5°	542.9	206.7	87.2	129.5	159.4	141.9	127.0	7.5	2.5	5.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)