

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: P459221

Luminaire Tested: **GALN-SA7A-735-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459221
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-SA7A-735-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 615mA 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: 21309 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

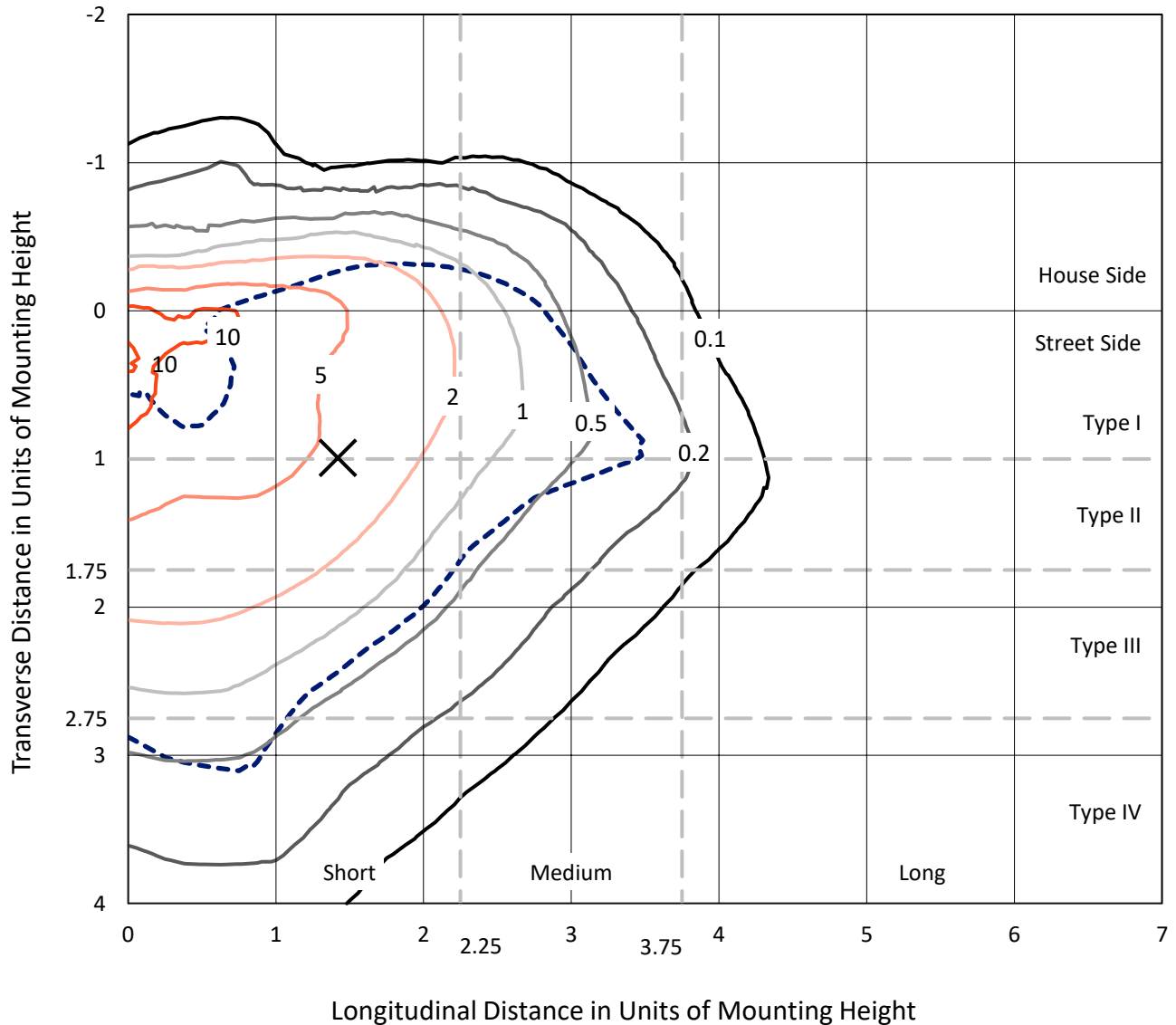
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

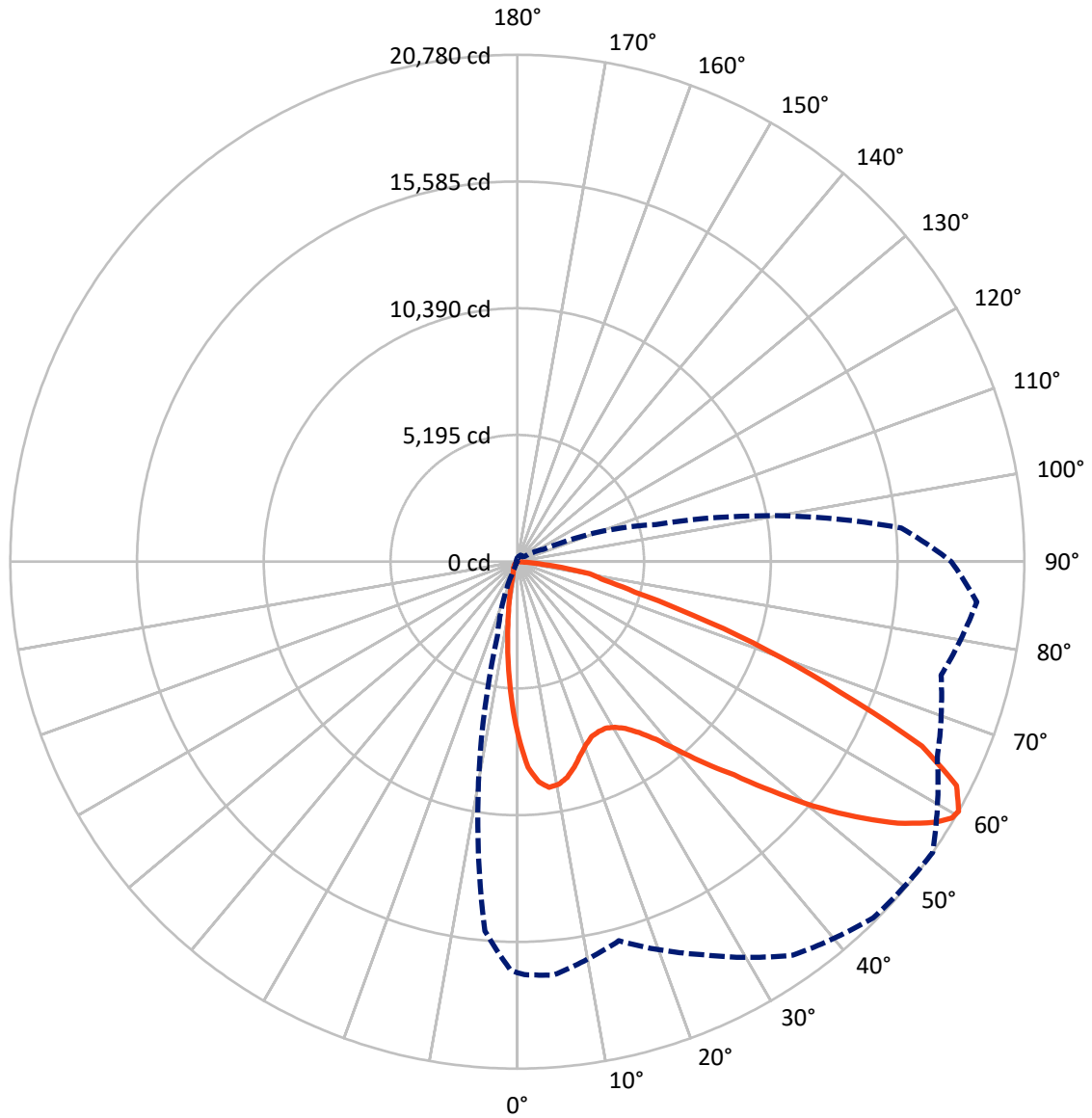
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3162.4	0.0	3162.4
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	18146.6	0.0	18146.6
	% Fixture	85.2	0.0	85.2
Total	Lumens	21309.0	0.0	21309.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	534.3	2.5
10°-20°	1052.2	4.9
20°-30°	1557.4	7.3
30°-40°	2321.4	10.9
40°-50°	3399.7	16.0
50°-60°	4908.2	23.0
60°-70°	5163.2	24.2
70°-80°	2123.9	10.0
80°-90°	248.8	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°	21309.0	100.0
0°-180°	21309.0	100.0



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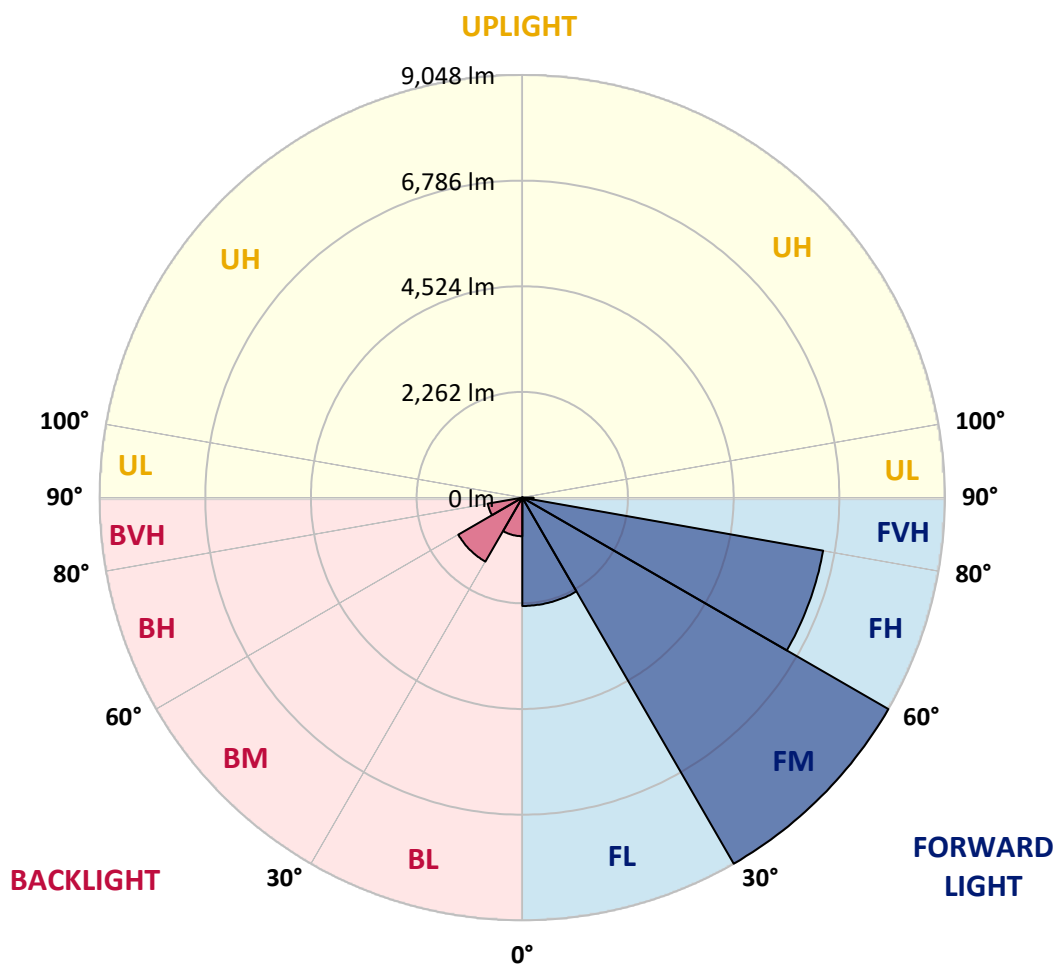
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2318.7	10.9			
FM	(30°-60°)	9047.8	42.5			
FH	(60°-80°)	6538.6	30.7			G3/7500
FVH	(80°-90°)	241.4	1.1			G3/500
BL	(0°-30°)	825.1	3.9	B2/1000		
BM	(30°-60°)	1581.5	7.4	B2/2500		
BH	(60°-80°)	748.5	3.5	B2/1000		G2/1000
BVH	(80°-90°)	7.3	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°	7215.2	7215.2	7215.2	7215.2	7215.2	7215.2	7215.2	7215.2	7215.2	7215.2	7215.2
2.5°	7882.7	7869.6	7986.1	8176.3	8368.2	8468.3	8448.6	8440.4	8281.3	8164.8	7920.4
5°	7866.3	7933.6	8141.9	8656.9	9047.3	9235.9	9291.6	9057.1	8747.1	8297.7	7743.3
7.5°	7395.6	7479.2	7818.8	8624.1	9317.9	9727.9	9713.2	9337.6	8697.9	8002.5	7211.9
10°	6811.7	6910.1	7308.7	8286.2	9186.7	9727.9	9757.5	9281.8	8486.3	7594.1	6762.5
12.5°	6400.0	6516.5	6957.7	7971.3	8848.8	9381.9	9416.3	9071.9	8327.2	7436.6	6518.1
15°	6260.6	6370.5	6818.2	7812.2	8489.6	8776.6	8768.4	8732.3	8264.9	7474.3	6531.2
17.5°	6500.0	6590.3	7095.4	7884.4	8153.4	8123.8	8166.5	8340.3	8278.0	7790.9	6944.5
20°	7118.4	7210.2	7753.1	8105.8	7895.8	7708.9	7728.5	8018.9	8399.4	8386.3	7590.8
22.5°	7969.7	8125.5	8617.5	8535.5	7861.4	7451.4	7410.4	7787.6	8606.0	9071.9	8463.3
25°	9047.3	9204.7	9588.5	9221.1	8030.3	7390.7	7352.9	7717.1	8857.0	9741.1	9445.8
27.5°	9952.6	10072.4	10454.5	9888.7	8279.6	7416.9	7354.6	7726.9	9060.4	10310.2	10274.1
30°	10677.6	10766.2	10990.9	10200.3	8494.5	7531.7	7459.6	7871.2	9150.6	10587.4	10944.9
32.5°	11261.5	11410.8	11481.3	10533.3	8802.9	7748.2	7625.2	8148.4	9370.4	10930.2	11648.6
35°	11929.1	12101.3	12011.1	10851.5	9209.6	8086.1	7935.2	8597.8	9703.3	11246.7	12465.4
37.5°	12775.4	12973.9	12621.2	11186.1	9639.4	8594.6	8524.0	9229.3	10208.5	11699.4	13341.3
40°	13651.2	13766.1	13213.3	11592.8	10167.5	9334.3	9401.5	10167.5	10869.5	12242.3	14272.9
42.5°	14335.2	14443.5	13821.8	11934.0	10707.1	10211.8	10492.3	11299.2	11627.3	12798.4	14968.3
45°	14858.4	14950.3	14243.4	12306.3	11435.4	11482.9	12012.7	12465.4	12386.7	13137.9	15504.7
47.5°	15265.2	15343.9	14568.1	12706.5	12526.1	13037.8	13848.1	14040.0	13174.0	13505.3	15990.2
50°	15432.5	15455.5	14669.8	13216.6	13764.4	15019.2	15863.9	15747.4	14076.1	13913.7	16506.8
52.5°	15650.6	15645.7	14960.1	13702.1	14929.0	16790.6	17633.6	17369.5	15096.3	14525.5	17087.4
55°	16223.1	16229.6	15581.7	14391.0	15921.3	18220.8	19122.9	18931.0	16172.2	15558.8	17764.8
57.5°	16918.5	16943.1	16465.8	15196.3	16869.3	19257.4	20234.9	20161.1	17627.1	16708.6	18404.5
59°	17008.7	17057.9	16884.1	15763.8	17431.9	19575.6	20615.5	20687.6	18406.1	17466.3	18750.6
60°	16844.7	16926.7	17005.4	16085.3	17761.6	19690.4	20638.4	20779.5	18991.7	17981.3	18908.0
62.5°	16129.6	16259.1	16654.4	17074.3	18173.2	19332.8	19905.3	20200.5	19716.6	19334.5	18922.8
65°	15193.0	15260.3	15831.1	17249.8	17374.5	17663.1	17840.3	18219.2	18845.7	19856.1	18245.4
67.5°	13657.8	13856.3	14555.0	16231.3	15017.5	14676.4	14632.1	14254.8	15881.9	18612.8	16575.7
70°	11282.8	11371.4	12232.5	13306.8	11333.7	10808.8	11018.8	10877.7	12311.2	16023.0	13341.3
72.5°	8532.2	8732.3	9573.8	10607.1	7712.1	7031.5	7610.5	7558.0	9247.4	12877.1	9165.3
75°	6070.3	6199.9	7272.6	8301.0	5401.1	4576.1	4784.4	4979.6	6455.8	10167.5	5415.9
77.5°	4171.0	4282.5	5087.9	5489.7	3939.7	3774.1	3452.6	3641.2	4230.0	6032.6	2947.4
80°	2516.0	2511.1	3040.9	3139.3	2744.0	3186.9	2673.5	3001.5	2557.0	2581.6	1141.6
82.5°	1633.6	1617.2	1860.0	2027.3	1527.0	1605.7	1077.6	1553.3	1666.4	720.0	360.8
85°	731.5	762.7	893.9	1179.3	669.2	355.9	219.8	477.3	710.2	362.5	0.0
87.5°	75.4	59.0	157.5	287.0	91.9	9.8	32.8	16.4	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°	7215.2	7215.2	7215.2	7215.2	7215.2	7215.2	7215.2	7215.2	7215.2	7215.2	7215.2
2.5°	7807.3	7712.1	7428.4	7162.7	6934.7	6655.9	6475.4	6191.7	6019.5	5967.0	5975.2
5°	7494.0	7220.1	6680.5	6249.1	5768.5	5494.6	5078.0	4677.8	4461.3	4380.9	4344.8
7.5°	6837.9	6544.3	5893.2	5215.8	4700.8	4220.2	3910.2	3557.6	3316.5	3118.0	3083.5
10°	6350.8	5965.3	5158.4	4430.1	4023.4	3662.5	3352.5	2999.9	2716.1	2489.8	2427.5
12.5°	6058.8	5627.5	4727.0	4116.9	3731.4	3360.7	2957.3	2548.8	2258.5	2014.1	1901.0
15°	6006.4	5506.1	4605.6	3892.2	3416.5	2968.7	2432.4	1991.2	1692.7	1461.4	1390.9
17.5°	6322.9	5724.2	4587.6	3657.6	3004.8	2370.1	1812.4	1446.6	1110.4	980.8	930.0
20°	6887.1	6109.7	4586.0	3385.3	2581.6	1825.5	1272.8	943.1	807.0	744.6	715.1
22.5°	7656.4	6634.5	4672.9	3150.8	2142.1	1346.6	908.7	751.2	672.5	621.6	610.1
25°	8596.2	7412.0	4886.1	2991.7	1805.8	1056.3	749.6	643.0	577.3	554.4	544.5
27.5°	9431.1	8156.6	5120.7	2827.7	1564.7	934.9	695.4	588.8	536.3	518.3	503.5
30°	10151.1	8832.4	5233.8	2611.2	1371.2	856.2	705.3	629.8	560.9	506.8	482.2
32.5°	10751.4	9350.7	5307.6	2414.4	1207.2	700.4	557.7	487.1	456.0	436.3	419.9
35°	11502.6	9911.6	5263.3	2302.8	1123.5	638.0	508.5	419.9	367.4	328.0	311.6
37.5°	12289.9	10472.6	5186.3	2211.0	1085.8	592.1	483.9	398.6	341.2	300.2	278.8
40°	13105.1	10992.5	5096.1	2125.7	1051.4	562.6	469.1	380.5	323.1	278.8	255.9
42.5°	13851.4	11499.3	5060.0	2069.9	995.6	567.5	457.6	372.3	305.1	259.1	239.5
45°	14454.9	11979.9	5109.2	2040.4	934.9	559.3	460.9	362.5	290.3	246.0	226.3
47.5°	15099.5	12658.9	5268.3	2010.9	875.9	519.9	485.5	360.8	283.8	237.8	216.5
50°	15849.1	13528.2	5632.4	1938.7	803.7	477.3	516.7	359.2	275.6	228.0	206.7
52.5°	16848.0	14515.6	6008.0	1812.4	698.7	436.3	493.7	354.3	259.1	216.5	195.2
55°	17745.1	15555.5	6326.2	1663.1	565.9	377.2	444.5	333.0	231.3	196.8	177.1
57.5°	18115.8	16142.7	6316.3	1456.5	452.7	331.3	365.8	305.1	201.7	173.9	157.5
59°	17979.7	16068.9	6104.8	1303.9	413.3	306.7	303.4	301.8	188.6	157.5	144.3
60°	17787.8	15799.9	5876.8	1228.5	388.7	290.3	278.8	298.5	177.1	147.6	134.5
62.5°	17053.0	14684.6	5120.7	1100.6	355.9	246.0	223.1	252.6	157.5	127.9	116.5
65°	15988.5	12970.6	4335.0	1064.5	346.1	203.4	185.3	180.4	134.5	108.3	98.4
67.5°	13912.0	10976.1	3511.6	1039.9	349.4	170.6	162.4	136.1	111.5	90.2	83.6
70°	11138.5	8558.5	2875.2	1012.0	352.6	139.4	136.1	108.3	90.2	75.4	68.9
72.5°	6767.4	5073.1	2263.5	879.1	342.8	111.5	121.4	82.0	65.6	54.1	50.8
75°	4184.1	3472.3	1404.0	684.0	226.3	82.0	85.3	50.8	44.3	34.4	34.4
77.5°	2424.2	2192.9	501.9	246.0	100.1	49.2	37.7	26.2	24.6	14.8	14.8
80°	1005.4	805.3	173.9	83.6	54.1	23.0	8.2	1.6	0.0	0.0	0.0
82.5°	293.6	260.8	47.6	37.7	16.4	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°	7215.2	7215.2	7215.2	7215.2	7215.2	7215.2	7215.2	7215.2	7215.2	7215.2	7215.2
2.5°	5835.8	5781.6	5757.0	5840.7	5763.6	5862.0	5786.6	5819.4	5916.1	5958.8	6068.7
5°	4367.8	4312.0	4285.8	4412.1	4405.5	4467.9	4461.3	4518.7	4567.9	4458.0	4571.2
7.5°	3042.5	3004.8	3067.1	3165.6	3270.5	3236.1	3236.1	3159.0	3185.2	3168.8	3163.9
10°	2314.3	2184.7	2151.9	2148.6	2188.0	2196.2	2151.9	2045.3	2084.7	2096.2	2165.0
12.5°	1820.6	1720.6	1568.0	1499.1	1481.1	1495.8	1349.9	1256.4	1300.7	1274.4	1341.7
15°	1305.6	1223.6	1133.4	1056.3	1035.0	1005.4	846.3	734.8	721.7	726.6	738.1
17.5°	931.6	875.9	875.9	793.8	749.6	661.0	580.6	531.4	526.5	531.4	539.6
20°	687.2	657.7	654.4	633.1	583.9	524.9	469.1	459.3	456.0	464.2	467.5
22.5°	592.1	560.9	534.7	533.1	487.1	437.9	411.7	398.6	400.2	403.5	411.7
25°	529.8	497.0	469.1	452.7	419.9	385.4	360.8	354.3	354.3	359.2	360.8
27.5°	485.5	444.5	419.9	396.9	367.4	337.9	316.6	311.6	308.4	311.6	319.8
30°	454.3	413.3	382.2	347.7	324.8	296.9	278.8	272.3	270.6	272.3	278.8
32.5°	388.7	364.1	339.5	308.4	280.5	262.4	242.7	231.3	231.3	234.5	241.1
35°	293.6	280.5	278.8	270.6	247.7	228.0	205.0	193.5	193.5	200.1	203.4
37.5°	259.1	234.5	231.3	228.0	218.1	191.9	170.6	160.7	159.1	164.0	170.6
40°	236.2	208.3	193.5	190.3	191.9	162.4	139.4	129.6	129.6	131.2	137.8
42.5°	218.1	185.3	159.1	155.8	162.4	136.1	113.2	103.3	103.3	103.3	111.5
45°	203.4	165.7	134.5	118.1	127.9	111.5	91.9	82.0	78.7	82.0	85.3
47.5°	193.5	150.9	118.1	95.1	95.1	88.6	73.8	62.3	59.0	60.7	65.6
50°	185.3	137.8	100.1	77.1	68.9	70.5	55.8	47.6	44.3	44.3	49.2
52.5°	172.2	124.7	86.9	65.6	52.5	47.6	41.0	34.4	32.8	34.4	37.7
55°	155.8	113.2	75.4	54.1	41.0	32.8	29.5	24.6	23.0	24.6	29.5
57.5°	137.8	95.1	60.7	42.6	27.9	21.3	19.7	16.4	13.1	14.8	18.0
59°	126.3	85.3	52.5	34.4	21.3	14.8	14.8	11.5	8.2	9.8	14.8
60°	121.4	78.7	44.3	29.5	18.0	11.5	11.5	8.2	4.9	6.6	11.5
62.5°	103.3	65.6	34.4	18.0	8.2	1.6	4.9	1.6	0.0	1.6	4.9
65°	86.9	52.5	23.0	8.2	0.0	0.0	0.0	0.0	0.0	0.0	1.6
67.5°	72.2	39.4	11.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	57.4	26.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	39.4	14.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	24.6	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	9.8	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: P459221

CATALOG NUMBER: GALN-SA7A-735-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7215.2	7215.2	7215.2	7215.2	7215.2	7215.2	7215.2	7215.2	7215.2	7215.2
2.5°	6075.2	6309.8	6454.1	6726.4	7005.2	7220.1	7489.1	7730.2	7830.2	7882.7
5°	4686.0	5012.4	5289.6	5704.6	6090.0	6559.1	7034.7	7595.7	7810.6	7866.3
7.5°	3288.6	3621.5	3911.8	4392.4	4941.9	5570.1	6281.9	6993.7	7307.0	7395.6
10°	2375.0	2730.9	3085.2	3565.8	4079.1	4759.8	5501.2	6382.0	6742.8	6811.7
12.5°	1499.1	1881.3	2457.0	3050.7	3593.6	4141.5	4917.3	5875.1	6273.7	6400.0
15°	869.3	1154.7	1589.3	2363.5	3054.0	3779.0	4625.3	5684.9	6131.0	6260.6
17.5°	582.3	680.7	979.2	1571.3	2483.2	3444.4	4551.5	5840.7	6334.4	6500.0
20°	490.4	534.7	639.7	957.9	1912.5	3145.9	4571.2	6263.9	6911.7	7118.4
22.5°	431.4	472.4	539.6	688.9	1335.1	2775.2	4664.7	6869.1	7705.6	7969.7
25°	380.5	421.5	480.6	570.8	897.2	2347.1	4869.7	7754.8	8756.9	9047.3
27.5°	337.9	375.6	426.4	503.5	690.5	1869.8	5051.8	8617.5	9716.4	9952.6
30°	298.5	329.7	378.9	437.9	574.1	1441.7	5143.6	9372.0	10415.2	10677.6
32.5°	259.1	288.7	336.2	383.8	472.4	1098.9	5079.6	9926.4	11094.2	11261.5
35°	221.4	252.6	292.0	336.2	408.4	887.3	4759.8	10549.7	11797.8	11929.1
37.5°	190.3	216.5	257.5	292.0	369.0	710.2	4372.7	11110.6	12586.8	12775.4
40°	160.7	187.0	228.0	259.1	339.5	559.3	4023.4	11733.9	13418.3	13651.2
42.5°	131.2	162.4	198.5	249.3	292.0	426.4	3600.2	12239.1	14043.3	14335.2
45°	105.0	139.4	178.8	247.7	254.2	324.8	3191.8	12632.7	14596.0	14858.4
47.5°	83.6	118.1	172.2	231.3	208.3	257.5	2958.9	13044.4	15055.2	15265.2
50°	67.2	98.4	180.4	203.4	173.9	218.1	2952.3	13503.6	15293.1	15432.5
52.5°	54.1	80.4	152.5	155.8	147.6	191.9	3129.5	14020.3	15535.8	15650.6
55°	45.9	67.2	100.1	114.8	132.9	173.9	3262.3	14815.8	16114.8	16223.1
57.5°	36.1	57.4	77.1	91.9	118.1	159.1	3280.4	15429.2	16848.0	16918.5
59°	31.2	49.2	68.9	82.0	108.3	149.3	3206.6	15466.9	16895.5	17008.7
60°	26.2	44.3	60.7	77.1	100.1	141.1	3126.2	15193.0	16718.4	16844.7
62.5°	19.7	34.4	44.3	62.3	82.0	121.4	2745.7	14236.8	16041.0	16129.6
65°	13.1	24.6	32.8	45.9	64.0	105.0	2237.2	12996.8	14994.6	15193.0
67.5°	8.2	18.0	26.2	34.4	52.5	88.6	1594.3	11145.0	13529.9	13657.8
70°	4.9	11.5	19.7	27.9	41.0	70.5	946.4	8809.4	11256.6	11282.8
72.5°	3.3	8.2	13.1	19.7	32.8	64.0	459.3	5742.3	8219.0	8532.2
75°	1.6	4.9	8.2	14.8	26.2	52.5	219.8	3836.4	5980.1	6070.3
77.5°	0.0	1.6	4.9	9.8	19.7	41.0	127.9	2519.3	4077.5	4171.0
80°	0.0	0.0	3.3	8.2	14.8	26.2	77.1	1486.0	2470.1	2516.0
82.5°	0.0	0.0	1.6	6.6	9.8	19.7	39.4	652.8	1617.2	1633.6
85°	0.0	0.0	1.6	6.6	8.2	13.1	14.8	88.6	718.4	731.5
87.5°	0.0	0.0	1.6	8.2	8.2	8.2	8.2	4.9	60.7	75.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)