

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: P530315

Luminaire Tested: **GALN-SA5C-735-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530315
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-735-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18132 lumens
Efficiency: N/A
Efficacy: 67.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

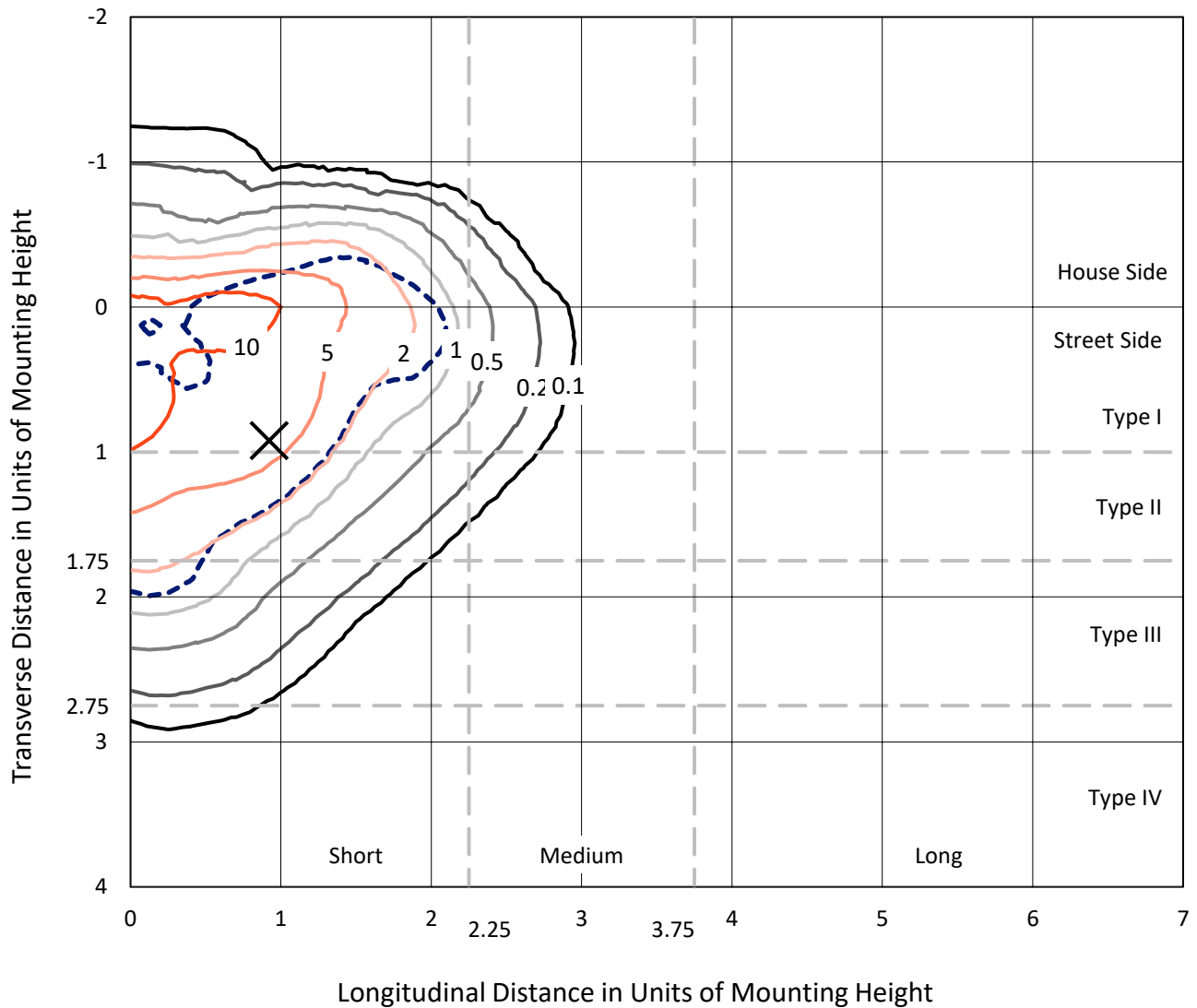
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P530315
 CATALOG NUMBER: GALN-SA5C-735-U-SLL-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

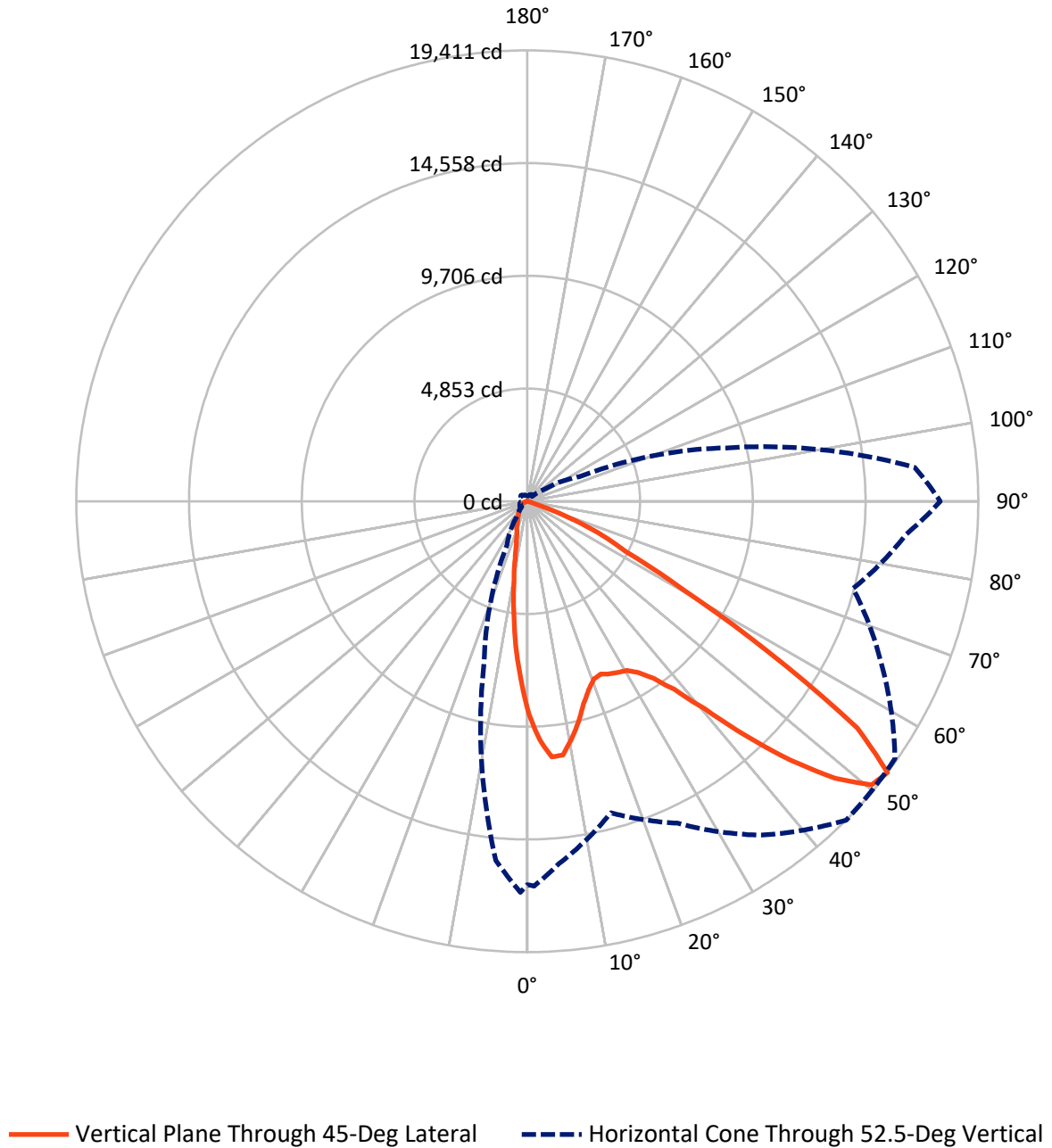
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 fc
 Type III - Short - N/A

REPORT NUMBER: P530315
CATALOG NUMBER: GALN-SA5C-735-U-SLL-GRSBK

Luminous Intensity Polar Plot



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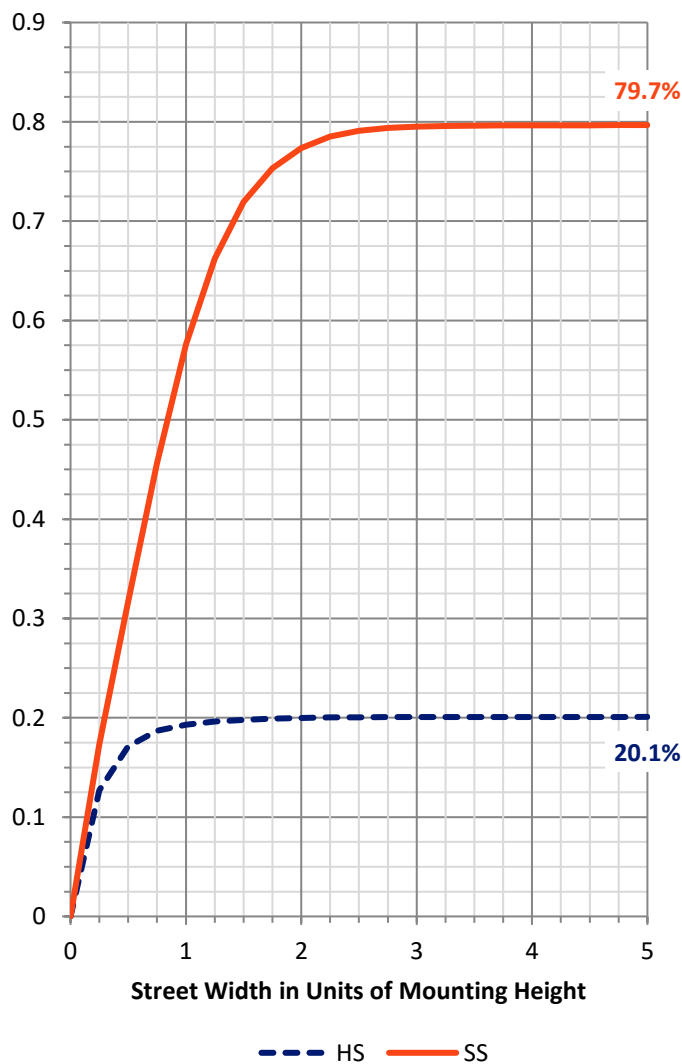
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3679.9	0.0	3679.9
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	14452.1	0.0	14452.1
	% Fixture	79.7	0.0	79.7
Total	Lumens	18132.0	0.0	18132.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	670.5	3.7
10°-20°	1322.8	7.3
20°-30°	2013.2	11.1
30°-40°	3008.9	16.6
40°-50°	4284.9	23.6
50°-60°	4606.2	25.4
60°-70°	2041.1	11.3
70°-80°	165.1	0.9
80°-90°	19.2	0.1
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°	18132.0	100.0
0°-180°	18132.0	100.0

Coefficient of Utilization

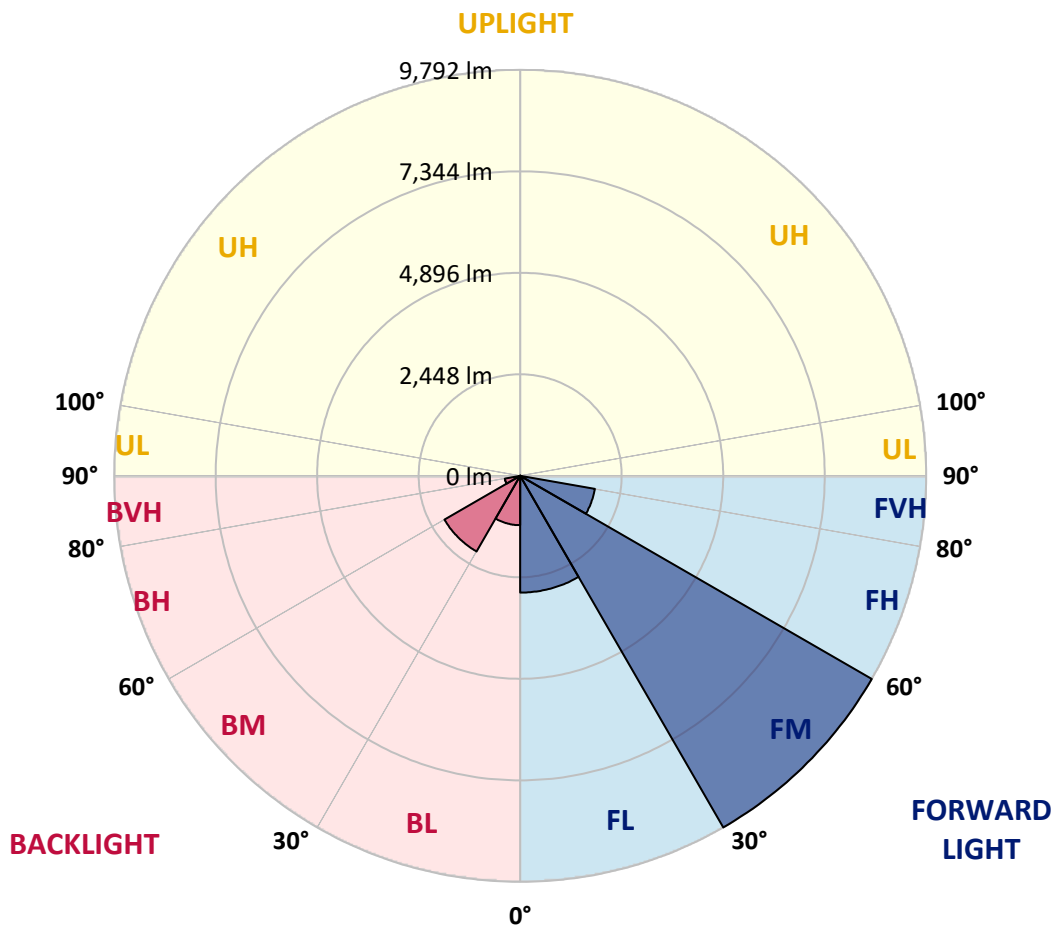


REPORT NUMBER: P530315
 CATALOG NUMBER: GALN-SA5C-735-U-SLL-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2816.3	15.5			
FM (30°-60°)	9791.8	54.0			
FH (60°-80°)	1829.7	10.1			G2/5000
FVH (80°-90°)	14.3	0.1			G1/100
BL (0°-30°)	1190.2	6.6	B3/2500		
BM (30°-60°)	2108.2	11.6	B2/2500		
BH (60°-80°)	376.5	2.1	B1/500		G1/500
BVH (80°-90°)	5.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type III Short





REPORT NUMBER: P530315

CATALOG NUMBER: GALN-SA5C-735-U-SLL-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9193.8	9193.8	9193.8	9193.8	9193.8	9193.8	9193.8	9193.8	9193.8	9193.8	9193.8
2.5°	9728.7	9757.2	9914.1	10110.3	10213.7	10449.1	10285.0	10327.8	10238.7	9924.8	9678.8
5°	9432.7	9429.1	9628.8	10113.9	10573.9	11041.1	11055.3	10805.7	10367.1	9885.6	9197.3
7.5°	8541.1	8680.2	8887.1	9660.9	10513.3	10862.8	11030.4	10737.9	10063.9	9375.6	8630.3
10°	7867.1	7938.5	8287.9	9222.3	9846.4	10313.6	10417.0	10249.4	9732.3	8872.8	8038.3
12.5°	7478.4	7514.1	7924.2	8708.8	9368.5	9714.4	9764.4	9842.8	9471.9	8666.0	7663.8
15°	7482.0	7510.5	8063.3	8719.5	8979.8	8887.1	9051.1	9047.6	9208.0	8626.7	7977.7
17.5°	8020.5	8052.6	8551.8	8876.4	8762.3	8544.7	8534.0	8698.1	9036.9	9115.3	8452.0
20°	8947.7	9022.6	9389.9	9372.1	8730.2	8291.5	8170.3	8295.1	9083.2	9529.0	9407.7
22.5°	10195.9	10299.3	10556.1	10063.9	8876.4	8120.3	8081.1	8323.6	9389.9	10452.6	10491.9
25°	11643.8	11818.5	11943.3	11312.1	9397.0	8416.3	8230.9	8648.1	9803.6	11454.8	11872.0
27.5°	12603.1	12785.0	12756.4	11854.2	9746.5	8494.8	8337.9	8726.6	10163.8	11693.7	12592.4
30°	13352.0	13462.6	13662.3	12146.6	10096.0	8715.9	8448.4	9058.2	10281.5	12107.4	13462.6
32.5°	14225.7	14300.6	14314.9	12663.7	10634.5	8994.1	8790.8	9471.9	10802.1	12503.2	14232.9
35°	15106.6	15217.1	14985.3	13302.1	10966.2	9511.2	9361.4	10188.7	11219.4	12913.4	15081.6
37.5°	16062.3	16119.4	15584.5	13566.0	11440.5	10352.8	10270.8	10962.6	11943.3	13655.1	16023.1
40°	16864.7	16918.2	16222.8	13890.5	11939.8	11529.7	11740.1	12439.0	12927.6	14136.6	16493.9
42.5°	17310.5	17435.3	16436.8	13712.2	12941.9	12863.4	13797.8	14043.9	14068.8	14272.1	16914.7
45°	17431.8	17374.7	16083.7	13858.4	13819.2	15056.7	15905.4	16230.0	15202.9	14521.7	17021.7
47.5°	16871.9	16946.8	15563.1	13730.0	14971.1	16718.5	17816.9	18419.6	16048.1	14304.2	16757.8
50°	16419.0	16322.7	15395.5	13637.3	15281.3	17503.1	19197.1	19332.6	16825.5	14571.7	16468.9
52.5°	16508.1	16568.8	15662.9	13883.4	15288.5	17549.5	19411.0	19318.3	16850.5	14511.0	16365.5
55°	16697.1	16429.7	15548.8	13341.3	14265.0	16254.9	17228.5	17085.9	15552.4	13865.5	16112.3
57.5°	14407.6	14821.3	14297.1	11911.2	11708.0	12246.5	12228.6	12667.3	11601.0	11932.6	14667.9
60°	11693.7	11765.0	11961.2	10188.7	8102.5	7917.1	7660.3	7382.1	7806.5	10203.0	13341.3
62.5°	10285.0	10199.4	10898.4	9268.7	5720.2	4789.5	4746.7	4917.8	6023.4	9732.3	12513.9
65°	7474.8	7581.8	8088.2	7193.1	4293.8	3655.4	3591.2	4097.6	4875.1	7799.4	9550.4
67.5°	4564.8	4771.6	4818.0	4436.4	2913.6	2314.5	2221.8	2681.8	3519.9	5046.2	5599.0
70°	2107.6	2357.3	2592.7	2421.5	1686.8	952.2	898.7	1126.9	1776.0	2902.9	2970.7
72.5°	638.4	641.9	898.7	937.9	545.6	214.0	189.0	249.6	602.7	959.3	1009.2
75°	46.4	49.9	121.3	139.1	103.4	53.5	57.1	67.8	128.4	214.0	160.5
77.5°	3.6	3.6	3.6	17.8	32.1	35.7	46.4	53.5	67.8	78.5	71.3
80°	3.6	0.0	3.6	14.3	25.0	35.7	42.8	49.9	53.5	60.6	53.5
82.5°	0.0	0.0	0.0	10.7	25.0	35.7	39.2	53.5	60.6	71.3	60.6
85°	0.0	0.0	0.0	10.7	25.0	39.2	35.7	17.8	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: P530315

CATALOG NUMBER: GALN-SA5C-735-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9193.8	9193.8	9193.8	9193.8	9193.8	9193.8	9193.8	9193.8	9193.8	9193.8	9193.8
2.5°	9721.6	9582.5	9265.1	9104.6	8726.6	8673.1	8302.2	8241.6	8116.8	8049.0	7885.0
5°	8894.2	8726.6	8209.5	7774.4	7268.0	6914.9	6643.9	6397.8	6255.2	6123.2	6183.9
7.5°	8220.2	7731.6	7157.4	6429.9	5845.1	5467.0	5053.4	4714.6	4514.9	4379.3	4411.4
10°	7514.1	7196.7	6397.8	5581.2	4875.1	4607.6	4283.1	4022.7	3741.0	3498.5	3384.4
12.5°	7293.0	6822.2	5820.1	4989.2	4454.2	4193.9	3823.0	3523.4	3163.3	2867.3	2763.8
15°	7332.2	6879.3	5663.2	4775.2	4144.0	3694.6	3252.4	2881.5	2485.7	2278.8	2171.8
17.5°	7970.5	7186.0	5766.6	4550.5	3712.5	3088.4	2542.7	2072.0	1776.0	1562.0	1515.7
20°	8755.1	7849.3	5987.7	4386.5	3359.4	2457.1	1858.0	1451.5	1205.4	1169.7	1159.0
22.5°	9903.4	8933.4	6462.0	4275.9	2927.9	1915.1	1273.1	1055.6	987.8	980.7	984.3
25°	11508.3	10292.2	6979.1	4183.2	2603.4	1476.4	1041.3	895.1	873.7	863.0	880.9
27.5°	12203.7	11112.4	7253.7	3983.5	2307.4	1330.2	1027.1	888.0	827.4	809.5	820.2
30°	13063.1	11658.0	7685.2	3641.1	1872.3	1094.8	959.3	966.5	937.9	848.8	820.2
32.5°	14204.3	12339.2	7902.8	3398.6	1672.6	905.8	702.5	645.5	720.4	734.6	759.6
35°	14935.4	13031.0	8013.3	3256.0	1569.1	773.9	595.6	542.1	524.2	527.8	542.1
37.5°	16294.2	13965.4	8152.4	3106.2	1490.7	674.0	538.5	488.6	463.6	463.6	477.9
40°	17107.3	14707.2	8341.4	3024.2	1412.2	613.4	488.6	445.8	424.4	424.4	431.5
42.5°	17310.5	15074.5	8277.2	2995.6	1323.1	599.1	445.8	413.7	388.7	385.2	381.6
45°	17674.3	15634.4	8287.9	2963.5	1230.4	545.6	420.8	385.2	349.5	345.9	342.4
47.5°	18073.7	16037.4	8309.3	2838.7	1141.2	456.5	438.6	356.6	313.8	306.7	306.7
50°	17731.3	16358.3	8494.8	2713.9	1027.1	370.9	431.5	335.2	278.2	267.5	271.0
52.5°	17774.1	16736.4	8887.1	2539.2	884.4	296.0	349.5	317.4	253.2	235.4	238.9
55°	17089.4	16336.9	8940.6	2353.7	691.9	228.2	267.5	278.2	214.0	206.8	206.8
57.5°	14710.7	13833.4	7888.5	1907.9	456.5	189.0	192.6	242.5	185.4	178.3	181.9
60°	12588.8	11105.3	6347.9	1258.9	285.3	149.8	139.1	246.1	164.0	160.5	171.2
62.5°	11476.2	9126.0	4814.4	781.0	196.1	114.1	96.3	199.7	142.6	142.6	156.9
65°	8291.5	6130.4	2799.5	410.1	139.1	89.2	71.3	114.1	117.7	121.3	128.4
67.5°	5135.4	3095.5	1180.4	199.7	92.7	60.6	46.4	71.3	78.5	78.5	85.6
70°	2535.6	1233.9	392.3	114.1	71.3	49.9	32.1	39.2	39.2	35.7	39.2
72.5°	784.6	370.9	99.9	71.3	49.9	32.1	17.8	14.3	7.1	0.0	3.6
75°	89.2	71.3	64.2	49.9	32.1	14.3	3.6	0.0	0.0	0.0	0.0
77.5°	53.5	60.6	60.6	49.9	32.1	10.7	0.0	0.0	0.0	0.0	0.0
80°	42.8	46.4	49.9	46.4	28.5	14.3	0.0	0.0	0.0	0.0	0.0
82.5°	53.5	60.6	67.8	60.6	39.2	17.8	7.1	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	10.7	3.6	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°	9193.8	9193.8	9193.8	9193.8	9193.8	9193.8	9193.8	9193.8	9193.8	9193.8	9193.8
2.5°	7817.2	7738.7	7849.3	7685.2	7681.7	7685.2	7638.9	7596.1	7663.8	7845.7	7863.6
5°	5966.3	6133.9	6187.4	6362.2	6265.9	6123.2	6151.8	6055.5	6290.8	6394.3	6312.2
7.5°	4343.7	4333.0	4693.2	4714.6	4760.9	4764.5	4757.4	4568.4	4375.8	4418.6	4547.0
10°	3370.1	3188.2	3363.0	3345.1	3459.3	3427.2	3473.5	3270.2	3338.0	3338.0	3420.0
12.5°	2746.0	2553.4	2521.3	2475.0	2521.3	2539.2	2557.0	2517.8	2631.9	2685.4	2742.4
15°	2096.9	1990.0	1961.4	1872.3	1886.5	1936.5	1979.3	1997.1	1961.4	2043.5	2050.6
17.5°	1522.8	1519.2	1537.0	1533.5	1519.2	1508.5	1505.0	1458.6	1444.3	1451.5	1480.0
20°	1155.5	1184.0	1244.6	1305.2	1337.3	1298.1	1244.6	1166.2	1134.1	1141.2	1144.8
22.5°	987.8	1030.6	1112.7	1180.4	1212.5	1141.2	1044.9	977.1	962.9	959.3	955.8
25°	895.1	945.1	1005.7	1027.1	1023.5	980.7	909.4	880.9	873.7	866.6	834.5
27.5°	845.2	863.0	873.7	898.7	909.4	880.9	863.0	820.2	813.1	813.1	791.7
30°	816.7	806.0	820.2	802.4	816.7	795.3	798.8	798.8	781.0	788.1	788.1
32.5°	759.6	763.2	763.2	727.5	738.2	713.2	738.2	759.6	763.2	766.7	795.3
35°	556.3	620.5	652.6	652.6	663.3	645.5	641.9	617.0	584.9	552.8	538.5
37.5°	488.6	513.5	556.3	581.3	599.1	584.9	552.8	513.5	495.7	481.4	467.2
40°	435.1	456.5	485.0	513.5	549.2	531.4	481.4	463.6	442.2	442.2	427.9
42.5°	392.3	403.0	420.8	463.6	502.8	467.2	431.5	417.3	406.6	403.0	399.4
45°	353.1	356.6	374.5	410.1	456.5	420.8	385.2	367.3	370.9	374.5	370.9
47.5°	317.4	324.5	335.2	378.0	406.6	388.7	349.5	338.8	338.8	338.8	342.4
50°	274.6	292.4	313.8	349.5	370.9	360.2	328.1	313.8	306.7	306.7	310.3
52.5°	246.1	260.3	288.9	331.7	360.2	342.4	310.3	288.9	274.6	271.0	278.2
55°	214.0	238.9	285.3	317.4	356.6	338.8	303.1	278.2	253.2	249.6	249.6
57.5°	192.6	231.8	274.6	313.8	345.9	331.7	303.1	271.0	238.9	235.4	235.4
60°	181.9	224.7	267.5	303.1	345.9	324.5	299.6	263.9	228.2	228.2	224.7
62.5°	171.2	210.4	253.2	288.9	331.7	313.8	288.9	253.2	217.5	217.5	210.4
65°	142.6	181.9	210.4	242.5	288.9	271.0	246.1	221.1	192.6	185.4	189.0
67.5°	99.9	124.8	153.3	185.4	214.0	206.8	196.1	178.3	153.3	149.8	146.2
70°	49.9	67.8	92.7	124.8	149.8	142.6	135.5	121.3	107.0	103.4	103.4
72.5°	7.1	21.4	39.2	57.1	78.5	82.0	78.5	74.9	71.3	67.8	71.3
75°	0.0	0.0	0.0	14.3	32.1	39.2	46.4	53.5	53.5	46.4	57.1
77.5°	0.0	0.0	0.0	0.0	3.6	17.8	35.7	46.4	57.1	49.9	67.8
80°	0.0	0.0	0.0	0.0	3.6	21.4	35.7	49.9	57.1	49.9	71.3
82.5°	0.0	0.0	0.0	0.0	3.6	25.0	35.7	46.4	53.5	49.9	64.2
85°	0.0	0.0	0.0	0.0	10.7	21.4	14.3	7.1	3.6	3.6	10.7
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: P530315

CATALOG NUMBER: GALN-SA5C-735-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9193.8	9193.8	9193.8	9193.8	9193.8	9193.8	9193.8	9193.8	9193.8	9193.8
2.5°	7963.4	8216.6	8487.7	8591.1	8912.0	9154.5	9318.6	9671.6	9725.1	9728.7
5°	6397.8	6526.2	6989.8	7207.4	7685.2	8056.1	8452.0	9022.6	9404.2	9432.7
7.5°	4547.0	4903.6	5099.7	5666.8	6255.2	6836.5	7424.9	8088.2	8530.4	8541.1
10°	3659.0	3890.8	4240.3	4664.6	5160.3	5752.3	6536.9	7307.2	7756.6	7867.1
12.5°	2945.7	3352.3	3751.7	4190.3	4568.4	5014.1	5859.3	6886.4	7257.3	7478.4
15°	2268.1	2639.0	3109.8	3623.3	4051.2	4646.8	5609.7	6783.0	7407.1	7482.0
17.5°	1672.6	2004.2	2439.3	2924.3	3566.2	4411.4	5652.5	7307.2	7895.7	8020.5
20°	1201.8	1394.4	1736.8	2300.2	3116.9	4136.8	5695.3	7838.6	8733.7	8947.7
22.5°	952.2	1030.6	1255.3	1754.6	2614.1	3848.0	5998.4	8855.0	9885.6	10195.9
25°	827.4	870.2	977.1	1383.7	2296.7	3819.4	6483.4	10074.6	11419.1	11643.8
27.5°	798.8	806.0	898.7	1269.6	2125.5	3630.4	6668.9	10941.2	12374.9	12603.1
30°	841.6	955.8	962.9	1073.4	1808.1	3256.0	6765.2	11779.3	13184.4	13352.0
32.5°	727.5	691.9	716.8	830.9	1590.5	3038.4	6947.0	12510.4	14108.0	14225.7
35°	506.4	531.4	588.4	720.4	1390.8	2810.2	6993.4	13316.3	14985.3	15106.6
37.5°	467.2	481.4	527.8	613.4	1223.2	2681.8	6929.2	13904.8	15894.7	16062.3
40°	435.1	452.9	477.9	556.3	1098.4	2539.2	6840.0	14436.1	16451.1	16864.7
42.5°	410.1	424.4	445.8	531.4	991.4	2396.5	6715.2	15185.1	16950.3	17310.5
45°	381.6	403.0	427.9	517.1	930.8	2300.2	6622.5	15138.7	17239.2	17431.8
47.5°	353.1	388.7	417.3	481.4	913.0	2253.9	6661.7	14963.9	17003.8	16871.9
50°	324.5	370.9	420.8	399.4	870.2	2161.1	6708.1	15202.9	16443.9	16419.0
52.5°	299.6	353.1	392.3	328.1	773.9	2072.0	7157.4	15516.7	16839.8	16508.1
55°	263.9	317.4	313.8	263.9	627.7	2004.2	7510.5	15523.8	16572.3	16697.1
57.5°	238.9	281.7	246.1	221.1	463.6	1676.1	6936.3	13016.8	14186.5	14407.6
60°	221.1	274.6	185.4	174.7	303.1	1209.0	6055.5	10081.8	11276.5	11693.7
62.5°	203.3	260.3	146.2	142.6	210.4	859.5	4978.5	8437.7	9718.0	10285.0
65°	178.3	185.4	117.7	110.6	149.8	463.6	3031.3	5809.4	7264.4	7474.8
67.5°	146.2	142.6	96.3	89.2	99.9	224.7	1337.3	2910.1	4211.7	4564.8
70°	117.7	117.7	82.0	71.3	71.3	103.4	349.5	1159.0	1904.4	2107.6
72.5°	85.6	89.2	64.2	57.1	53.5	49.9	57.1	231.8	499.3	638.4
75°	74.9	78.5	64.2	49.9	39.2	32.1	25.0	21.4	28.5	46.4
77.5°	82.0	82.0	67.8	46.4	35.7	25.0	14.3	7.1	7.1	3.6
80°	103.4	107.0	89.2	60.6	42.8	28.5	17.8	7.1	3.6	3.6
82.5°	110.6	121.3	99.9	74.9	53.5	32.1	17.8	3.6	0.0	0.0
85°	28.5	46.4	78.5	67.8	53.5	32.1	17.8	3.6	0.0	0.0
87.5°	0.0	3.6	10.7	10.7	14.3	14.3	10.7	3.6	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

(END OF REPORT)