

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: P458903

Luminaire Tested: **GALN-SA4B-735-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458903
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-735-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18075 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

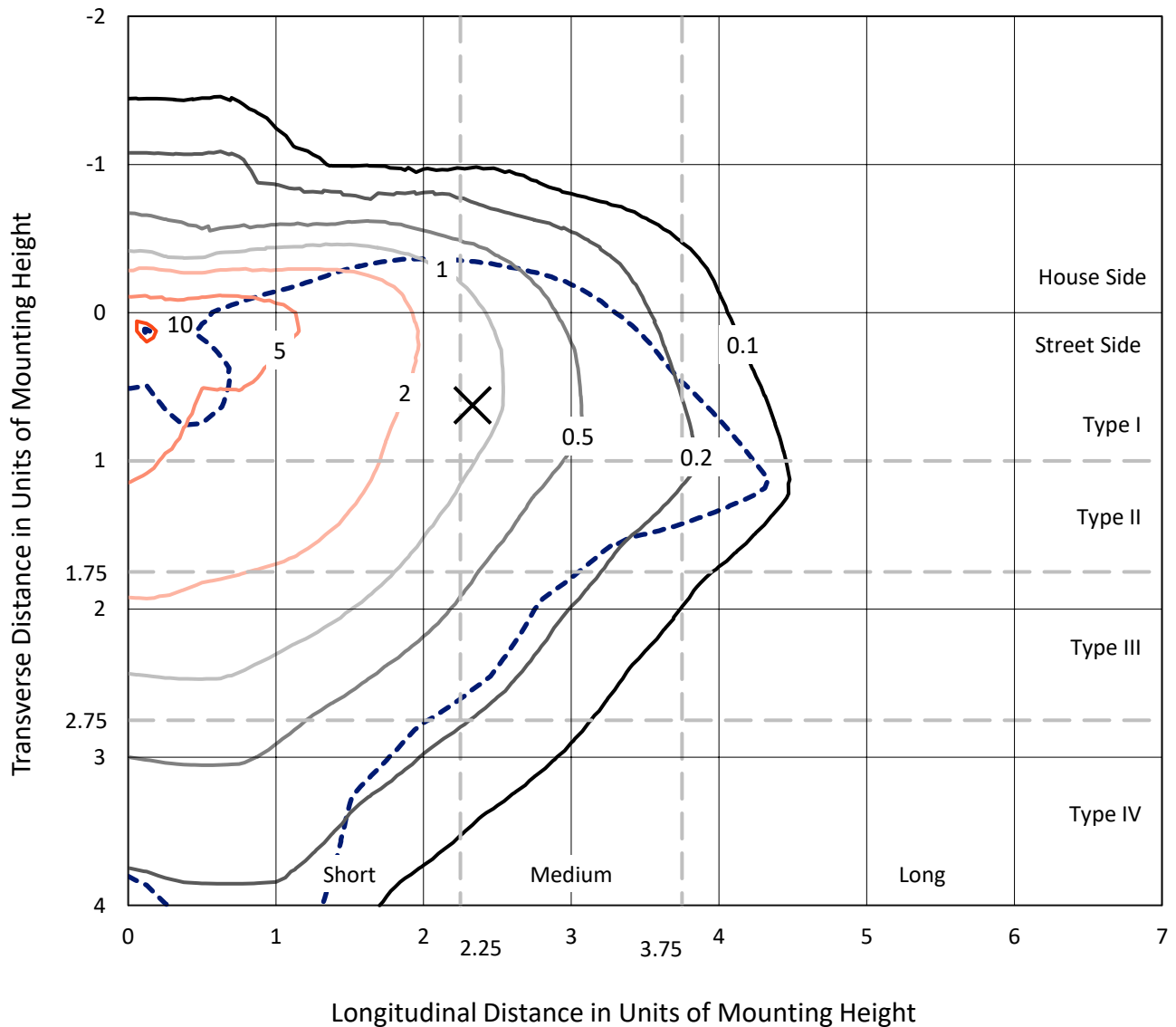
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458903
 CATALOG NUMBER: GALN-SA4B-735-U-SLL

Iso-Footcandle Lines of Horizontal Illumination

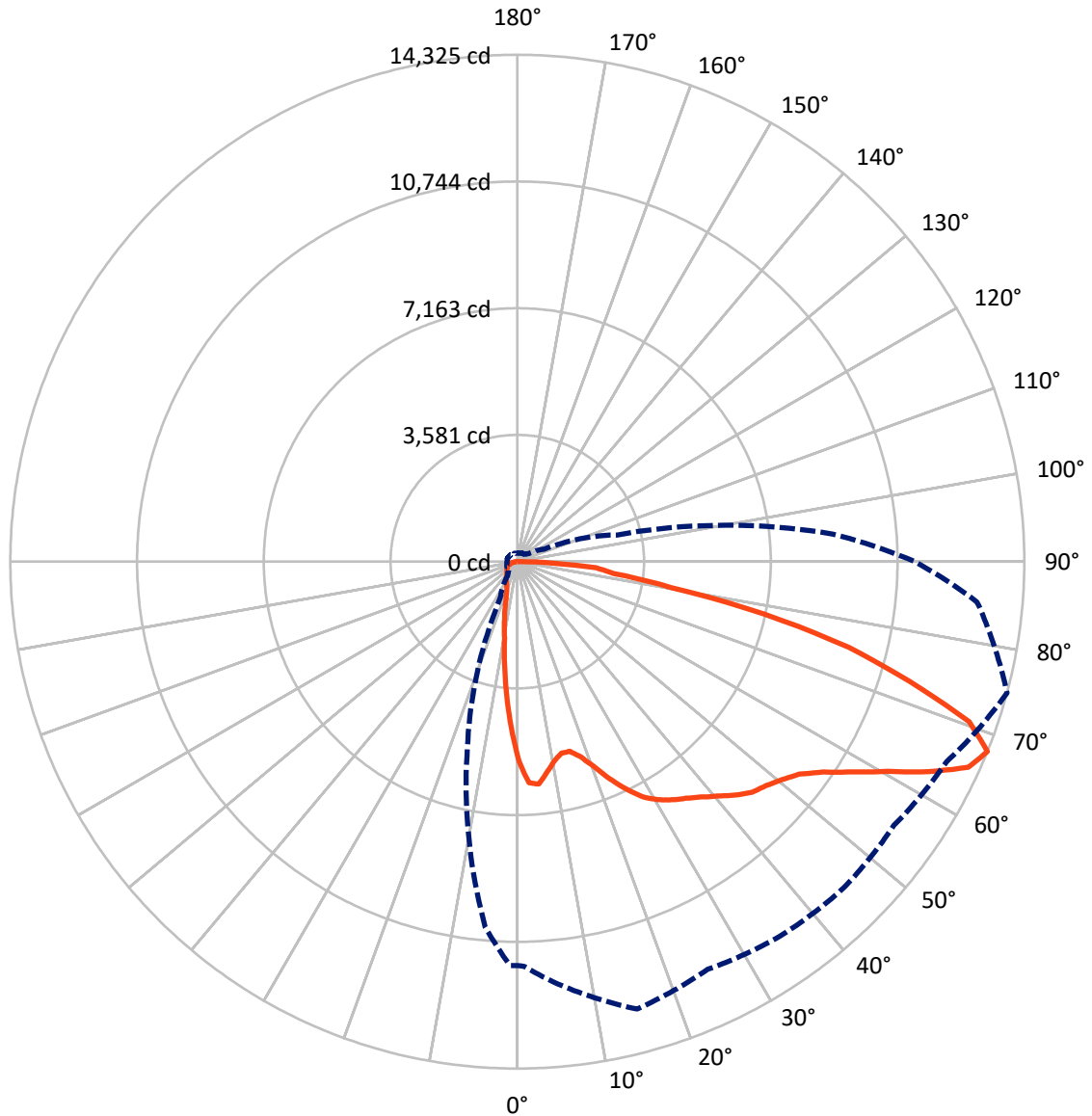
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type III - Medium - N/A

REPORT NUMBER: P458903
CATALOG NUMBER: GALN-SA4B-735-U-SLL

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



REPORT NUMBER: P458903
 CATALOG NUMBER: GALN-SA4B-735-U-SLL

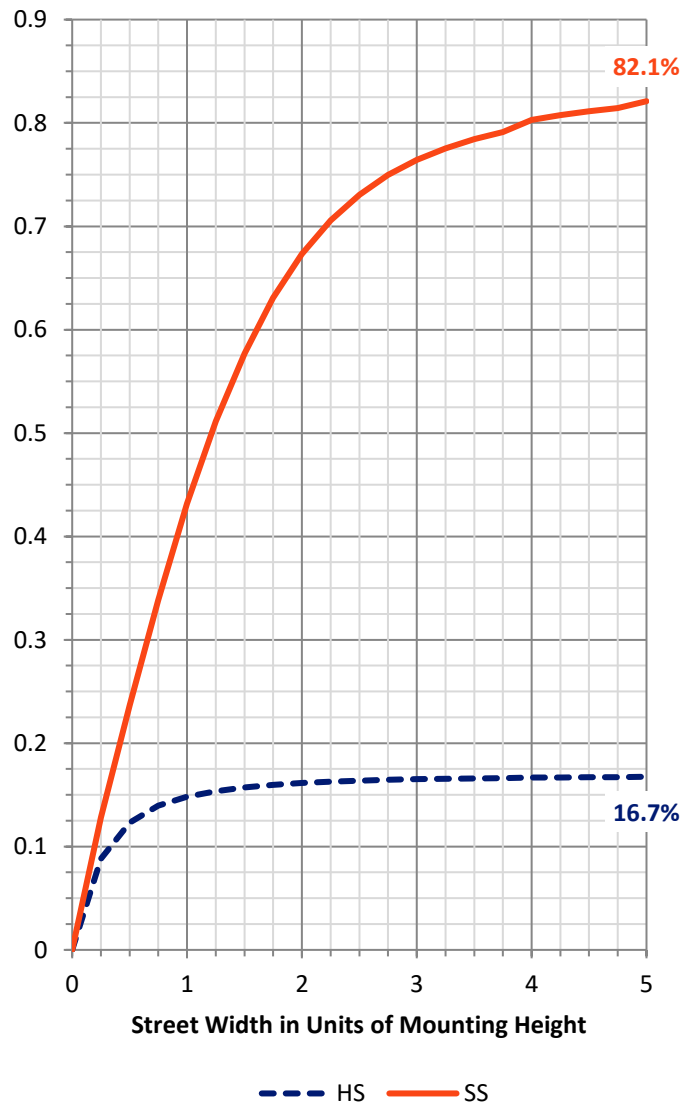
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3055.1	0.0	3055.1
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	15019.9	0.0	15019.9
	% Fixture	83.1	0.0	83.1
Total	Lumens	18075.0	0.0	18075.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.3	2.4
10°-20°	893.3	4.9
20°-30°	1285.4	7.1
30°-40°	1851.4	10.2
40°-50°	2600.6	14.4
50°-60°	3627.0	20.1
60°-70°	4312.3	23.9
70°-80°	2539.7	14.1
80°-90°	537.0	3.0
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°	18075.0	100.0
0°-180°	18075.0	100.0



REPORT NUMBER: P458903

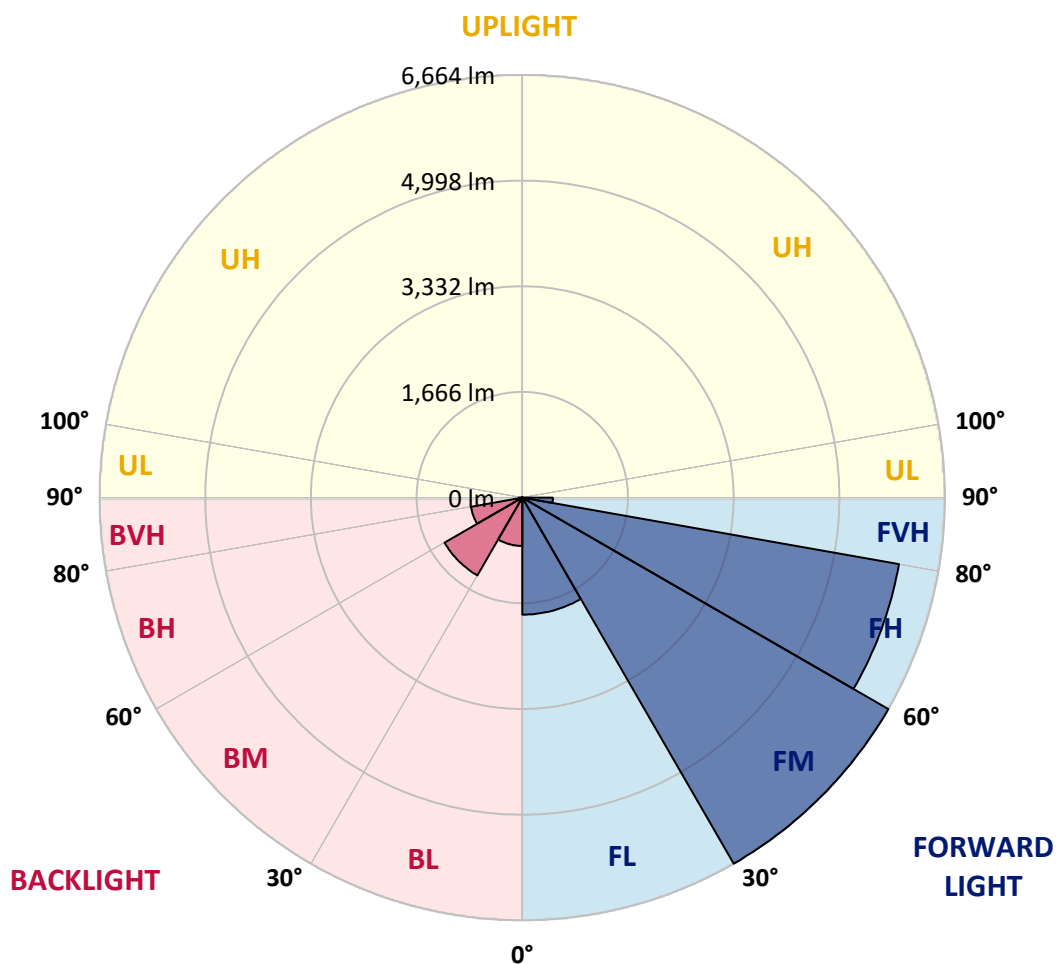
CATALOG NUMBER: GALN-SA4B-735-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1845.0	10.2			
FM	(30°-60°)	6663.6	36.9			
FH	(60°-80°)	6029.9	33.4			G3/7500
FVH	(80°-90°)	481.5	2.7			G3/500
BL	(0°-30°)	762.0	4.2	B2/1000		
BM	(30°-60°)	1415.4	7.8	B2/2500		
BH	(60°-80°)	822.1	4.5	B2/1000		G2/1000
BVH	(80°-90°)	55.5	0.3			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 III Medium





REPORT NUMBER: P458903

CATALOG NUMBER: GALN-SA4B-735-U-SLL

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5647.1	5647.1	5647.1	5647.1	5647.1	5647.1	5647.1	5647.1	5647.1	5647.1	5647.1
2.5°	6088.7	6096.8	6148.9	6300.8	6405.1	6443.3	6470.0	6420.2	6371.5	6253.3	6074.8
5°	6070.1	6117.6	6253.3	6594.0	6862.9	6978.8	7013.6	6864.1	6617.2	6313.5	5948.4
7.5°	5715.4	5779.2	5987.8	6559.3	7033.3	7304.5	7268.6	6998.5	6553.5	6012.2	5502.2
10°	5294.7	5365.4	5616.9	6307.7	6918.6	7291.8	7291.8	6962.6	6371.5	5728.2	5140.5
12.5°	4960.9	5035.1	5322.5	6049.3	6679.8	7033.3	7092.4	6809.6	6240.5	5548.5	4902.9
15°	4850.8	4922.6	5232.1	5892.8	6427.1	6642.7	6662.4	6569.7	6176.8	5561.3	4892.5
17.5°	4987.5	5080.3	5393.2	5939.1	6195.3	6208.1	6223.1	6296.1	6183.7	5794.3	5103.4
20°	5382.8	5482.5	5809.3	6088.7	5992.5	5860.3	5868.4	6056.2	6266.0	6179.1	5607.6
22.5°	5953.1	6040.0	6375.0	6351.8	5906.7	5634.3	5577.5	5839.5	6387.7	6658.9	6144.3
25°	6568.5	6670.5	7055.3	6742.4	5931.0	5499.9	5463.9	5712.0	6514.1	7107.5	6764.4
27.5°	7273.3	7372.9	7676.6	7136.5	6058.5	5489.4	5446.5	5700.4	6627.6	7522.5	7356.7
30°	7797.2	7888.7	8095.0	7468.0	6215.0	5559.0	5505.6	5791.9	6725.0	7806.4	7933.9
32.5°	8208.6	8303.7	8416.1	7674.3	6421.3	5685.3	5586.8	5958.9	6852.5	8023.2	8361.6
35°	8637.5	8749.9	8741.8	7857.4	6613.7	5831.4	5735.1	6199.9	7053.0	8212.1	8904.1
37.5°	9181.1	9226.3	9168.4	8022.0	6844.4	6094.5	6041.1	6558.1	7338.2	8440.5	9538.1
40°	9732.8	9823.2	9525.4	8221.4	7124.9	6589.4	6583.6	7087.8	7676.6	8708.2	10152.4
42.5°	10205.7	10282.2	9859.2	8395.2	7464.5	7193.3	7237.3	7798.3	8120.5	9018.8	10646.2
45°	10561.6	10630.0	10167.5	8563.3	7911.9	7891.0	8150.7	8559.8	8680.4	9298.2	10936.0
47.5°	10864.1	10930.2	10381.9	8818.3	8464.8	8724.4	9176.5	9353.8	9159.1	9458.1	11260.5
50°	11119.1	11138.8	10529.1	9122.0	9151.0	9745.6	10183.7	10298.5	9632.0	9687.6	11542.2
52.5°	11384.5	11359.0	10783.0	9504.5	9892.8	10714.6	11033.3	11152.7	10085.2	9970.4	11952.5
55°	11979.1	12003.5	11352.1	9986.7	10642.7	11666.2	12085.8	11971.0	10587.1	10490.9	12474.1
57.5°	12697.8	12676.9	12153.0	10741.2	11406.5	12551.7	12864.7	12680.4	11257.0	11206.0	13002.6
60°	12977.1	13004.9	12822.9	11552.6	12160.0	13327.1	13647.1	13360.8	12060.3	12037.1	13401.3
62.5°	12696.6	12853.1	12975.9	12274.7	12802.1	13897.4	14215.0	13888.1	12898.3	13066.4	13680.7
65°	12137.9	12171.5	12590.0	12886.7	13111.6	13991.3	14157.1	13983.2	13598.4	14004.1	13667.9
67.5°	11412.3	11441.3	11931.6	13087.2	12712.8	12924.9	13040.9	12989.9	13381.6	14325.1	13038.5
70°	10721.5	10698.3	11216.5	12576.1	11066.9	10744.7	10840.9	10681.0	11546.8	13540.4	11804.1
72.5°	9377.0	9460.4	10016.8	11155.0	8762.7	8238.8	8448.6	8034.8	8880.9	11596.6	9581.0
75°	7345.1	7364.8	8293.2	9361.9	6610.3	5783.8	6067.8	5895.1	6802.7	9673.7	6616.1
77.5°	5086.1	5042.0	6040.0	7150.4	4714.0	4234.1	4238.8	4156.5	4749.9	7122.6	4494.9
80°	3230.4	3163.1	3780.9	4417.3	3239.6	3465.7	3352.1	3348.6	3092.4	4394.1	2718.1
82.5°	1745.6	1819.8	2388.9	2769.1	2324.0	2678.6	2454.9	2383.1	2122.3	2750.5	1738.6
85°	795.1	864.7	1273.8	1883.5	1765.3	1785.0	1192.7	1407.1	1756.0	2233.6	928.4
87.5°	77.7	99.7	263.1	889.0	602.7	475.2	177.3	341.9	441.6	794.0	74.2
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: P458903
 CATALOG NUMBER: GALN-SA4B-735-U-SLL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5647.1	5647.1	5647.1	5647.1	5647.1	5647.1	5647.1	5647.1	5647.1	5647.1	5647.1
2.5°	6001.7	5941.5	5736.3	5567.1	5387.4	5250.7	5072.2	4952.8	4870.5	4746.4	4731.4
5°	5725.9	5578.7	5221.7	4857.7	4543.6	4307.2	4067.2	3847.0	3717.2	3676.6	3624.5
7.5°	5261.1	5013.0	4554.0	4136.8	3776.3	3423.9	3152.7	2960.3	2831.6	2756.3	2665.9
10°	4878.6	4591.1	4032.5	3521.3	3224.6	3005.5	2766.7	2560.4	2401.6	2266.0	2191.8
12.5°	4621.3	4296.7	3668.5	3253.5	3024.1	2791.1	2511.7	2279.9	2045.8	1891.6	1825.6
15°	4543.6	4200.5	3556.1	3120.3	2791.1	2486.2	2173.3	1870.8	1638.9	1492.9	1444.2
17.5°	4733.7	4318.7	3554.9	2942.9	2517.5	2153.6	1752.5	1468.6	1230.9	1122.0	1087.2
20°	5088.4	4545.9	3565.3	2767.9	2220.8	1708.5	1275.0	1042.0	928.4	882.1	864.7
22.5°	5583.3	4892.5	3596.6	2595.2	1896.3	1312.1	955.1	836.9	796.3	788.2	784.7
25°	6193.0	5321.4	3702.1	2439.9	1622.7	1001.4	798.6	745.3	722.1	714.0	712.8
27.5°	6754.0	5875.4	3829.6	2306.6	1358.4	863.5	722.1	676.9	653.7	652.6	654.9
30°	7260.5	6339.0	3936.2	2157.1	1157.9	767.3	672.3	627.1	605.0	603.9	610.8
32.5°	7698.6	6720.4	4015.1	2009.9	1046.7	708.2	627.1	578.4	559.8	556.4	559.8
35°	8166.9	7100.5	3979.1	1895.1	982.9	659.5	593.5	545.9	523.9	513.5	513.5
37.5°	8701.2	7492.3	3917.7	1800.1	953.9	619.0	564.5	518.1	496.1	485.7	484.5
40°	9284.3	7884.1	3833.1	1715.4	924.9	594.6	544.8	496.1	469.4	459.0	456.7
42.5°	9798.9	8219.1	3763.5	1659.8	877.4	599.2	527.4	479.9	446.2	432.3	431.2
45°	10246.3	8556.4	3750.8	1627.4	838.0	592.3	522.7	467.1	427.7	412.6	410.3
47.5°	10596.3	8907.6	3823.8	1608.8	795.1	555.2	552.9	459.0	411.5	395.2	392.9
50°	11022.9	9406.0	3990.7	1570.6	755.7	520.4	584.2	457.8	398.7	377.9	372.1
52.5°	11590.8	10055.1	4216.7	1502.2	698.9	488.0	557.5	457.8	383.7	362.8	355.8
55°	12449.7	10882.6	4438.1	1406.0	619.0	445.1	503.0	443.9	361.6	343.1	338.5
57.5°	13018.8	11487.7	4579.5	1272.7	519.3	413.8	433.5	421.9	339.6	319.9	319.9
60°	13047.8	11650.0	4512.3	1104.6	456.7	384.8	376.7	425.4	319.9	299.0	296.7
62.5°	12714.0	11252.4	4162.3	953.9	423.1	353.5	340.8	373.2	300.2	279.3	275.9
65°	12192.4	10238.2	3554.9	882.1	404.5	325.7	307.2	306.0	279.3	259.6	255.0
67.5°	11233.8	8947.0	2920.9	840.3	395.2	294.4	277.0	271.2	255.0	238.8	236.5
70°	9820.9	7493.5	2342.5	822.9	390.6	262.0	248.0	241.1	227.2	214.4	213.3
72.5°	7640.7	6078.2	1933.4	811.4	388.3	231.8	216.7	207.5	199.4	187.8	187.8
75°	5488.3	4471.7	1475.5	731.4	359.3	199.4	183.1	177.3	165.7	156.5	158.8
77.5°	3459.9	3011.3	971.3	537.8	278.2	160.0	146.0	142.6	133.3	120.5	128.7
80°	2336.7	2117.6	566.8	338.5	175.0	117.1	112.4	111.3	100.8	86.9	88.1
82.5°	1590.3	1560.1	294.4	192.4	100.8	68.4	66.1	68.4	56.8	46.4	46.4
85°	621.3	848.4	139.1	75.3	32.5	10.4	15.1	16.2	9.3	4.6	5.8
87.5°	11.6	86.9	3.5	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: P458903
 CATALOG NUMBER: GALN-SA4B-735-U-SLL

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	5647.1	5647.1	5647.1	5647.1	5647.1	5647.1	5647.1	5647.1	5647.1	5647.1	5647.1
2.5°	4708.2	4697.8	4715.2	4641.0	4656.0	4683.9	4697.8	4705.9	4820.6	4794.0	4867.0
5°	3673.1	3662.7	3729.9	3739.2	3774.0	3767.0	3800.6	3808.8	3850.5	3865.5	3967.5
7.5°	2671.7	2716.9	2793.4	2832.8	2891.9	2910.5	2893.1	2936.0	2849.0	2911.6	2930.2
10°	2146.6	2092.1	2059.7	2150.1	2161.7	2247.5	2212.7	2184.9	2235.9	2238.2	2286.9
12.5°	1787.3	1670.2	1592.6	1618.1	1645.9	1683.0	1688.8	1744.4	1781.5	1816.3	1845.3
15°	1401.3	1360.8	1290.1	1255.3	1294.7	1309.8	1345.7	1392.1	1431.5	1441.9	1481.3
17.5°	1075.6	1082.6	1071.0	1050.1	1074.5	1086.1	1088.4	1089.5	1100.0	1093.0	1151.0
20°	865.8	890.2	919.2	923.8	931.9	937.7	927.3	887.9	889.0	913.4	931.9
22.5°	783.5	788.2	820.6	831.1	856.6	846.1	816.0	797.4	795.1	800.9	810.2
25°	718.6	725.6	748.8	765.0	784.7	766.2	744.1	726.7	724.4	730.2	739.5
27.5°	660.7	671.1	692.0	708.2	726.7	709.4	688.5	673.4	672.3	671.1	676.9
30°	614.3	625.9	641.0	659.5	672.3	657.2	637.5	629.4	628.2	625.9	628.2
32.5°	568.0	586.5	601.6	610.8	623.6	612.0	596.9	592.3	584.2	577.2	573.7
35°	515.8	535.5	558.7	570.3	583.0	571.4	561.0	541.3	527.4	526.2	528.5
37.5°	485.7	493.8	512.3	532.0	544.8	539.0	519.3	499.6	496.1	496.1	498.4
40°	459.0	462.5	470.6	496.1	519.3	501.9	477.5	471.7	471.7	470.6	471.7
42.5°	432.3	435.8	435.8	455.5	492.6	464.8	446.2	446.2	446.2	447.4	450.9
45°	408.0	409.2	408.0	421.9	456.7	433.5	420.7	424.2	426.5	428.9	431.2
47.5°	387.1	388.3	387.1	398.7	416.1	406.8	399.9	404.5	409.2	412.6	415.0
50°	368.6	367.4	369.7	376.7	384.8	387.1	382.5	389.5	391.8	396.4	402.2
52.5°	352.4	351.2	353.5	357.0	368.6	368.6	368.6	374.4	379.0	383.7	391.8
55°	333.8	335.0	338.5	343.1	358.2	355.8	357.0	361.6	366.3	373.2	377.9
57.5°	316.4	318.7	323.4	330.3	345.4	344.2	345.4	347.7	353.5	357.0	361.6
60°	296.7	301.4	307.2	311.8	326.9	325.7	331.5	336.1	339.6	339.6	341.9
62.5°	277.0	284.0	289.8	293.2	309.5	310.6	318.7	322.2	324.5	322.2	325.7
65°	257.3	267.7	270.1	274.7	290.9	292.1	301.4	309.5	307.2	304.8	310.6
67.5°	237.6	250.4	249.2	255.0	271.2	273.5	281.7	295.6	290.9	288.6	293.2
70°	215.6	224.9	226.0	229.5	251.5	248.0	260.8	273.5	270.1	271.2	271.2
72.5°	191.2	199.4	199.4	206.3	229.5	223.7	234.1	248.0	248.0	246.9	246.9
75°	162.3	166.9	171.5	182.0	206.3	199.4	206.3	219.1	221.4	219.1	219.1
77.5°	131.0	137.9	140.2	154.2	171.5	170.4	177.3	183.1	187.8	185.5	185.5
80°	92.7	99.7	109.0	124.0	134.5	137.9	141.4	146.0	148.4	148.4	150.7
82.5°	52.2	62.6	70.7	85.8	90.4	107.8	106.6	110.1	106.6	93.9	104.3
85°	11.6	22.0	31.3	39.4	45.2	62.6	66.1	74.2	61.4	56.8	56.8
87.5°	0.0	0.0	0.0	0.0	0.0	9.3	18.5	25.5	22.0	18.5	18.5
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: P458903
 CATALOG NUMBER: GALN-SA4B-735-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5647.1	5647.1	5647.1	5647.1	5647.1	5647.1	5647.1	5647.1	5647.1	5647.1
2.5°	4928.4	5029.3	5151.0	5360.8	5508.0	5666.8	5826.7	5997.1	6042.3	6088.7
5°	3995.4	4193.6	4301.4	4583.0	4878.6	5254.1	5561.3	5897.4	6037.7	6070.1
7.5°	3026.4	3160.8	3443.6	3728.8	4095.0	4489.1	4959.7	5483.6	5647.1	5715.4
10°	2399.3	2582.4	2830.5	3136.5	3457.5	3881.8	4412.6	5024.6	5256.4	5294.7
12.5°	2042.3	2246.3	2516.4	2839.8	3143.4	3463.3	3998.8	4630.5	4878.6	4960.9
15°	1633.1	1880.0	2191.8	2532.6	2862.9	3213.0	3755.4	4468.3	4754.6	4850.8
17.5°	1283.1	1482.5	1819.8	2189.5	2581.3	3024.1	3704.4	4545.9	4898.3	4987.5
20°	981.7	1124.3	1408.3	1798.9	2257.9	2837.4	3717.2	4839.2	5261.1	5382.8
22.5°	848.4	921.5	1094.2	1466.2	1979.7	2675.2	3769.3	5241.4	5750.2	5953.1
25°	768.5	806.7	904.1	1147.5	1714.3	2517.5	3888.7	5782.7	6434.1	6568.5
27.5°	700.1	727.9	788.2	963.2	1473.2	2371.5	4027.8	6383.1	7072.7	7273.3
30°	635.2	672.3	729.1	855.4	1319.0	2238.2	4202.8	6869.9	7610.5	7797.2
32.5°	585.3	622.4	674.6	780.1	1188.1	2097.9	4307.2	7297.6	8049.8	8208.6
35°	544.8	576.1	630.5	719.8	1088.4	1991.3	4286.3	7637.2	8475.2	8637.5
37.5°	515.8	542.5	596.9	663.0	1013.0	1880.0	4275.9	8085.8	8993.3	9181.1
40°	489.1	517.0	566.8	625.9	937.7	1749.1	4281.7	8530.9	9545.1	9732.8
42.5°	468.3	499.6	540.1	615.5	860.0	1643.6	4281.7	8918.0	10024.9	10205.7
45°	450.9	484.5	523.9	614.3	798.6	1563.6	4252.7	9250.7	10407.4	10561.6
47.5°	435.8	472.9	529.7	593.5	783.5	1505.7	4227.2	9517.2	10719.2	10864.1
50°	425.4	469.4	563.3	569.1	788.2	1488.3	4350.0	9853.4	10993.9	11119.1
52.5°	417.3	470.6	562.2	533.2	780.1	1499.9	4606.2	10378.4	11375.3	11384.5
55°	401.0	469.4	533.2	492.6	746.5	1519.6	4935.4	11141.1	11972.2	11979.1
57.5°	384.8	456.7	494.9	457.8	678.1	1519.6	5331.8	11863.2	12692.0	12697.8
60°	368.6	475.2	434.7	427.7	588.8	1491.7	5750.2	12180.8	12918.0	12977.1
62.5°	352.4	478.7	388.3	401.0	523.9	1424.5	6062.0	11829.6	12612.0	12696.6
65°	333.8	386.0	358.2	373.2	490.3	1312.1	5963.5	11186.3	12037.1	12137.9
67.5°	311.8	326.9	325.7	344.2	478.7	1146.3	5444.2	10372.6	11418.1	11412.3
70°	285.1	293.2	296.7	316.4	456.7	1017.7	4536.7	9316.7	10591.7	10721.5
72.5°	257.3	264.3	267.7	285.1	434.7	944.7	3521.3	7862.1	9174.2	9377.0
75°	227.2	231.8	236.5	251.5	411.5	836.9	2508.3	6001.7	7026.4	7345.1
77.5°	195.9	195.9	201.7	216.7	346.6	690.8	1683.0	4209.8	4760.4	5086.1
80°	158.8	160.0	157.6	173.9	255.0	472.9	956.2	2811.9	3167.8	3230.4
82.5°	121.7	118.2	119.4	127.5	190.1	322.2	510.0	1746.7	1780.4	1745.6
85°	76.5	76.5	74.2	83.5	121.7	168.1	278.2	1069.8	835.7	795.1
87.5°	31.3	25.5	29.0	33.6	58.0	68.4	109.0	220.2	84.6	77.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)