

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: P458671

Luminaire Tested: **GALN-SA2B-735-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458671  
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-SA2B-735-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 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: 9188 lumens  
Efficiency: N/A  
Efficacy: 112.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G3

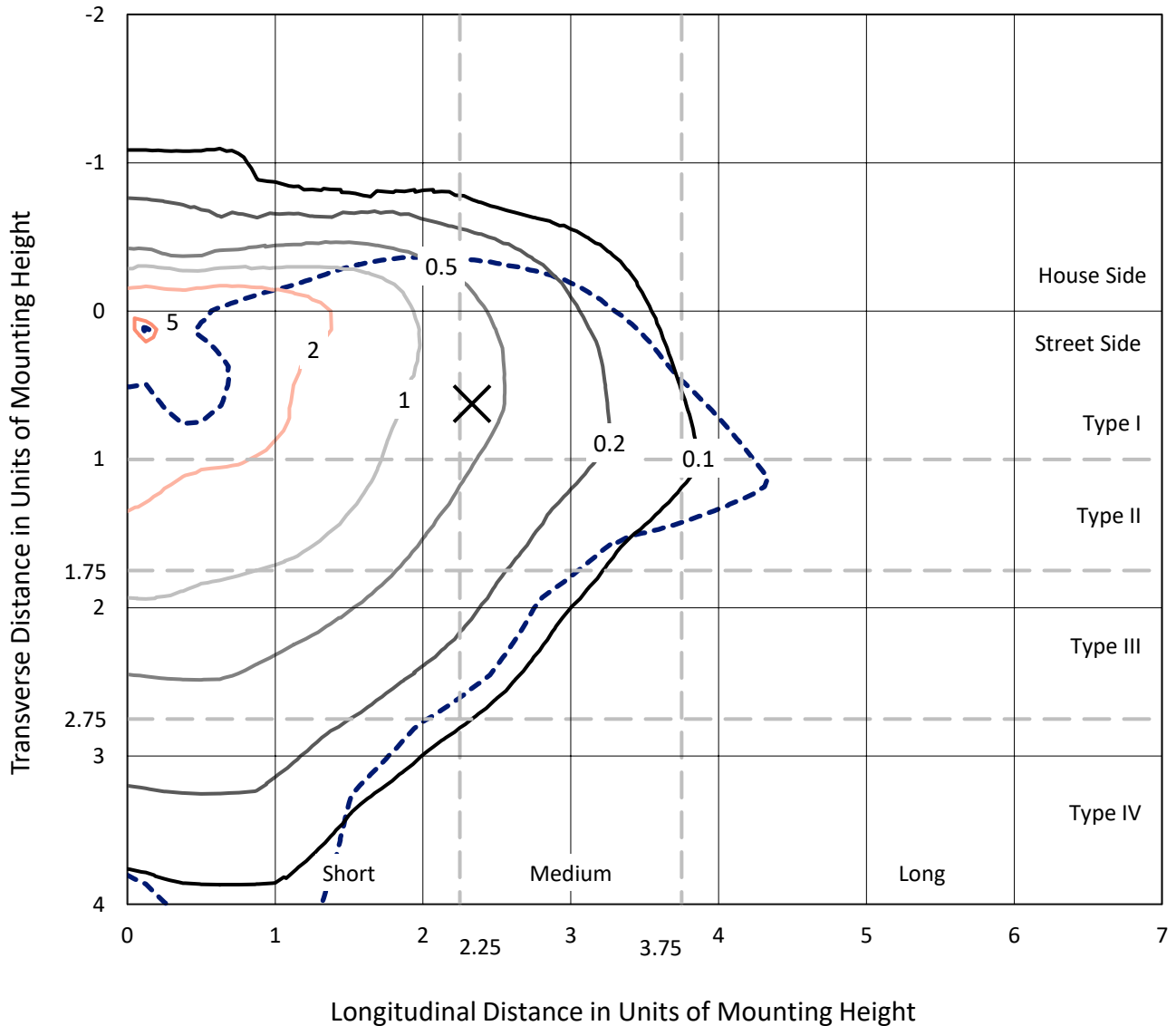
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P458671  
 CATALOG NUMBER: GALN-SA2B-735-U-SLL

### Iso-Footcandle Lines of Horizontal Illumination

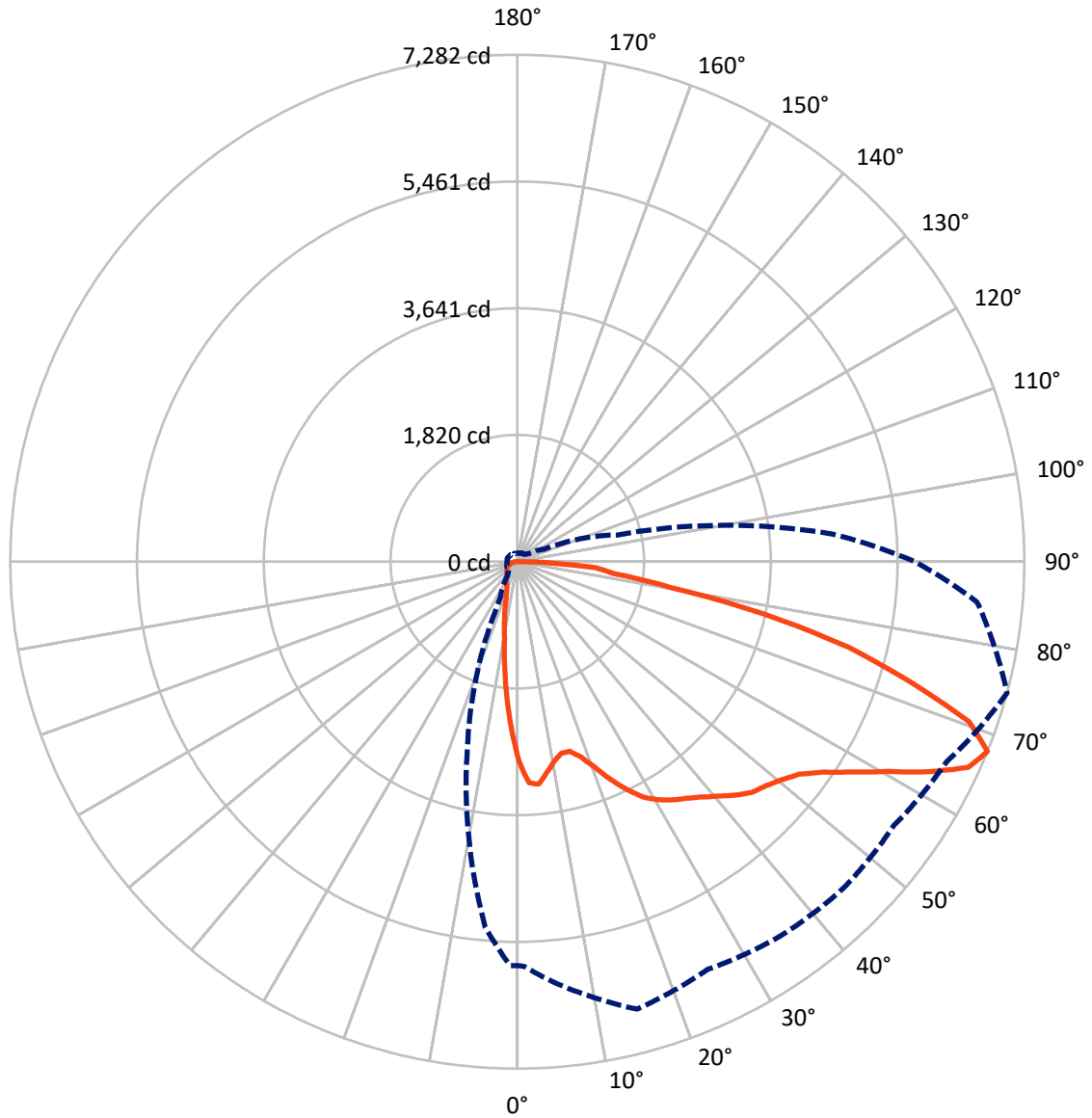
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc  
 Type III - Medium - N/A

REPORT NUMBER: P458671  
CATALOG NUMBER: GALN-SA2B-735-U-SLL

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P458671

CATALOG NUMBER: GALN-SA2B-735-U-SLL

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1553.0	0.0	1553.0
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	7635.0	0.0	7635.0
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	9188.0	0.0	9188.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	217.7	2.4
10°-20°	454.1	4.9
20°-30°	653.4	7.1
30°-40°	941.1	10.2
40°-50°	1322.0	14.4
50°-60°	1843.7	20.1
60°-70°	2192.0	23.9
70°-80°	1291.0	14.1
80°-90°	273.0	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°	9188.0	100.0
0°-180°	9188.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P458671

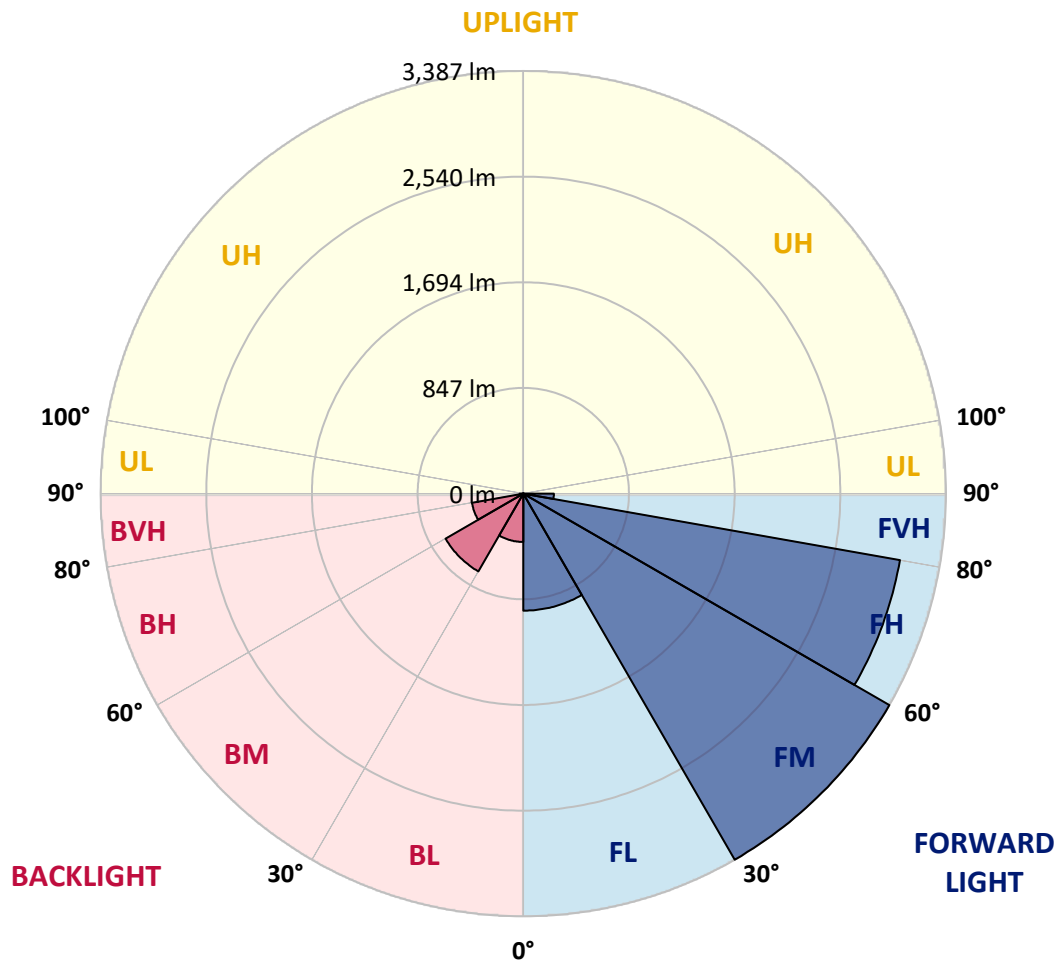
CATALOG NUMBER: GALN-SA2B-735-U-SLL

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	937.8	10.2			
FM	(30°-60°)	3387.3	36.9			
FH	(60°-80°)	3065.2	33.4			G2/5000
FVH	(80°-90°)	244.8	2.7			G3/500
BL	(0°-30°)	387.4	4.2	B1/500		
BM	(30°-60°)	719.5	7.8	B1/1000		
BH	(60°-80°)	417.9	4.5	B1/500		G1/500
BVH	(80°-90°)	28.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type III Medium





REPORT NUMBER: P458671

CATALOG NUMBER: GALN-SA2B-735-U-SLL

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2870.5	2870.5	2870.5	2870.5	2870.5	2870.5	2870.5	2870.5	2870.5	2870.5	2870.5
2.5°	3095.0	3099.2	3125.7	3202.9	3255.9	3275.3	3288.9	3263.5	3238.8	3178.7	3088.0
5°	3085.6	3109.8	3178.7	3351.9	3488.6	3547.5	3565.2	3489.2	3363.7	3209.3	3023.7
7.5°	2905.3	2937.7	3043.8	3334.2	3575.2	3713.1	3694.8	3557.5	3331.3	3056.1	2796.9
10°	2691.4	2727.4	2855.2	3206.4	3516.9	3706.6	3706.6	3539.3	3238.8	2911.8	2613.1
12.5°	2521.7	2559.5	2705.6	3075.0	3395.5	3575.2	3605.3	3461.5	3172.2	2820.5	2492.3
15°	2465.8	2502.3	2659.6	2995.5	3267.1	3376.7	3386.7	3339.5	3139.8	2826.9	2487.0
17.5°	2535.3	2582.4	2741.5	3019.0	3149.2	3155.7	3163.4	3200.5	3143.3	2945.4	2594.2
20°	2736.2	2786.9	2953.0	3095.0	3046.1	2979.0	2983.1	3078.5	3185.2	3141.0	2850.5
22.5°	3026.1	3070.3	3240.6	3228.8	3002.5	2864.1	2835.2	2968.4	3247.0	3384.9	3123.3
25°	3339.0	3390.8	3586.4	3427.3	3014.9	2795.7	2777.5	2903.5	3311.3	3612.9	3438.5
27.5°	3697.2	3747.9	3902.2	3627.7	3079.7	2790.4	2768.6	2897.7	3369.0	3823.9	3739.6
30°	3963.5	4010.0	4114.9	3796.2	3159.3	2825.8	2798.7	2944.2	3418.5	3968.2	4033.0
32.5°	4172.7	4221.0	4278.1	3901.0	3264.1	2890.0	2839.9	3029.0	3483.3	4078.4	4250.4
35°	4390.7	4447.8	4443.7	3994.1	3361.9	2964.2	2915.3	3151.6	3585.2	4174.4	4526.2
37.5°	4667.0	4690.0	4660.5	4077.8	3479.2	3098.0	3070.9	3333.7	3730.2	4290.5	4848.5
40°	4947.5	4993.4	4842.0	4179.1	3621.8	3349.6	3346.6	3602.9	3902.2	4426.6	5160.7
42.5°	5187.8	5226.7	5011.7	4267.5	3794.4	3656.5	3678.9	3964.1	4127.9	4584.5	5411.7
45°	5368.7	5403.5	5168.4	4353.0	4021.8	4011.2	4143.2	4351.2	4412.5	4726.5	5559.0
47.5°	5522.5	5556.1	5277.4	4482.6	4302.9	4434.9	4664.6	4754.8	4655.8	4807.8	5724.0
50°	5652.1	5662.1	5352.2	4636.9	4651.7	4953.9	5176.7	5235.0	4896.2	4924.5	5867.2
52.5°	5787.1	5774.1	5481.3	4831.4	5028.8	5446.5	5608.5	5669.2	5126.6	5068.2	6075.8
55°	6089.3	6101.7	5770.6	5076.5	5410.0	5930.2	6143.5	6085.2	5381.7	5332.8	6340.9
57.5°	6454.6	6444.0	6177.7	5460.1	5798.2	6380.4	6539.5	6445.8	5722.2	5696.3	6609.6
60°	6596.6	6610.7	6518.2	5872.5	6181.2	6774.5	6937.2	6791.6	6130.6	6118.8	6812.3
62.5°	6454.0	6533.6	6596.0	6239.6	6507.6	7064.4	7225.9	7059.7	6556.5	6642.0	6954.2
65°	6170.0	6187.1	6399.8	6550.6	6665.0	7112.1	7196.4	7108.0	6912.4	7118.6	6947.8
67.5°	5801.2	5815.9	6065.2	6652.6	6462.3	6570.1	6629.0	6603.1	6802.2	7281.8	6627.8
70°	5450.0	5438.3	5701.6	6392.7	5625.6	5461.8	5510.7	5429.4	5869.5	6883.0	6000.3
72.5°	4766.6	4809.0	5091.8	5670.4	4454.3	4188.0	4294.6	4084.3	4514.4	5894.9	4870.3
75°	3733.7	3743.7	4215.7	4758.9	3360.2	2940.1	3084.4	2996.6	3458.0	4917.4	3363.1
77.5°	2585.4	2563.0	3070.3	3634.7	2396.2	2152.3	2154.7	2112.8	2414.5	3620.6	2284.9
80°	1642.1	1607.9	1921.9	2245.4	1646.8	1761.7	1703.9	1702.2	1572.0	2233.6	1381.7
82.5°	887.3	925.0	1214.3	1407.6	1181.3	1361.6	1247.9	1211.4	1078.8	1398.2	883.8
85°	404.2	439.5	647.5	957.4	897.3	907.4	606.3	715.3	892.6	1135.4	471.9
87.5°	39.5	50.7	133.7	451.9	306.4	241.6	90.1	173.8	224.5	403.6	37.7
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: P458671

CATALOG NUMBER: GALN-SA2B-735-U-SLL

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2870.5	2870.5	2870.5	2870.5	2870.5	2870.5	2870.5	2870.5	2870.5	2870.5	2870.5
2.5°	3050.8	3020.2	2915.9	2829.9	2738.6	2669.0	2578.3	2517.6	2475.8	2412.7	2405.1
5°	2910.6	2835.8	2654.3	2469.3	2309.6	2189.4	2067.5	1955.5	1889.5	1868.9	1842.4
7.5°	2674.3	2548.3	2314.9	2102.8	1919.6	1740.5	1602.6	1504.8	1439.4	1401.1	1355.1
10°	2479.9	2333.8	2049.8	1790.0	1639.1	1527.8	1406.4	1301.5	1220.8	1151.9	1114.2
12.5°	2349.1	2184.1	1864.8	1653.9	1537.2	1418.8	1276.8	1158.9	1039.9	961.6	928.0
15°	2309.6	2135.2	1807.6	1586.1	1418.8	1263.8	1104.7	951.0	833.1	758.9	734.1
17.5°	2406.3	2195.3	1807.1	1496.0	1279.7	1094.7	890.9	746.5	625.7	570.3	552.7
20°	2586.6	2310.8	1812.4	1407.0	1128.9	868.5	648.1	529.7	471.9	448.4	439.5
22.5°	2838.1	2487.0	1828.3	1319.2	963.9	667.0	485.5	425.4	404.8	400.7	398.9
25°	3148.1	2705.0	1881.9	1240.3	824.9	509.1	406.0	378.9	367.1	362.9	362.4
27.5°	3433.2	2986.6	1946.7	1172.5	690.5	438.9	367.1	344.1	332.3	331.7	332.9
30°	3690.7	3222.3	2000.9	1096.5	588.6	390.0	341.7	318.8	307.6	307.0	310.5
32.5°	3913.4	3416.1	2041.0	1021.7	532.0	360.0	318.8	294.0	284.6	282.8	284.6
35°	4151.5	3609.4	2022.7	963.3	499.6	335.3	301.7	277.5	266.3	261.0	261.0
37.5°	4423.1	3808.5	1991.5	915.0	484.9	314.6	286.9	263.4	252.2	246.9	246.3
40°	4719.4	4007.7	1948.5	872.0	470.2	302.3	276.9	252.2	238.6	233.3	232.1
42.5°	4981.0	4178.0	1913.1	843.7	446.0	304.6	268.1	243.9	226.8	219.8	219.2
45°	5208.5	4349.4	1906.6	827.2	426.0	301.1	265.7	237.4	217.4	209.8	208.6
47.5°	5386.4	4527.9	1943.7	817.8	404.2	282.2	281.0	233.3	209.2	200.9	199.7
50°	5603.2	4781.3	2028.6	798.4	384.2	264.5	297.0	232.7	202.7	192.1	189.1
52.5°	5891.9	5111.2	2143.5	763.6	355.3	248.1	283.4	232.7	195.0	184.4	180.9
55°	6328.5	5531.9	2256.0	714.7	314.6	226.3	255.7	225.7	183.8	174.4	172.0
57.5°	6617.8	5839.5	2327.9	646.9	264.0	210.3	220.4	214.5	172.6	162.6	162.6
60°	6632.5	5922.0	2293.7	561.5	232.1	195.6	191.5	216.2	162.6	152.0	150.8
62.5°	6462.9	5719.9	2115.8	484.9	215.1	179.7	173.2	189.7	152.6	142.0	140.2
65°	6197.7	5204.3	1807.1	448.4	205.6	165.6	156.1	155.5	142.0	132.0	129.6
67.5°	5710.5	4548.0	1484.8	427.2	200.9	149.7	140.8	137.9	129.6	121.4	120.2
70°	4992.2	3809.1	1190.8	418.3	198.6	133.2	126.1	122.6	115.5	109.0	108.4
72.5°	3884.0	3089.7	982.8	412.4	197.4	117.8	110.2	105.5	101.3	95.4	95.4
75°	2789.8	2273.1	750.0	371.8	182.6	101.3	93.1	90.1	84.3	79.5	80.7
77.5°	1758.7	1530.7	493.7	273.4	141.4	81.3	74.2	72.5	67.8	61.3	65.4
80°	1187.8	1076.5	288.1	172.0	89.0	59.5	57.2	56.6	51.3	44.2	44.8
82.5°	808.4	793.1	149.7	97.8	51.3	34.8	33.6	34.8	28.9	23.6	23.6
85°	315.8	431.3	70.7	38.3	16.5	5.3	7.7	8.2	4.7	2.4	2.9
87.5°	5.9	44.2	1.8	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: P458671  
 CATALOG NUMBER: GALN-SA2B-735-U-SLL

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2870.5	2870.5	2870.5	2870.5	2870.5	2870.5	2870.5	2870.5	2870.5	2870.5	2870.5
2.5°	2393.3	2388.0	2396.8	2359.1	2366.8	2380.9	2388.0	2392.1	2450.5	2436.9	2474.0
5°	1867.2	1861.9	1896.0	1900.7	1918.4	1914.9	1932.0	1936.1	1957.3	1965.0	2016.8
7.5°	1358.1	1381.1	1420.0	1440.0	1470.0	1479.5	1470.6	1492.4	1448.2	1480.1	1489.5
10°	1091.2	1063.5	1047.0	1093.0	1098.8	1142.4	1124.8	1110.6	1136.6	1137.7	1162.5
12.5°	908.5	849.0	809.6	822.5	836.7	855.5	858.5	886.7	905.6	923.3	938.0
15°	712.3	691.7	655.8	638.1	658.1	665.8	684.1	707.6	727.7	733.0	753.0
17.5°	546.8	550.3	544.4	533.8	546.2	552.1	553.3	553.8	559.1	555.6	585.1
20°	440.1	452.5	467.2	469.6	473.7	476.7	471.4	451.3	451.9	464.3	473.7
22.5°	398.3	400.7	417.1	422.5	435.4	430.1	414.8	405.4	404.2	407.1	411.8
25°	365.3	368.8	380.6	388.9	398.9	389.5	378.3	369.4	368.2	371.2	375.9
27.5°	335.8	341.1	351.7	360.0	369.4	360.6	350.0	342.3	341.7	341.1	344.1
30°	312.3	318.2	325.8	335.3	341.7	334.1	324.1	319.9	319.3	318.2	319.3
32.5°	288.7	298.1	305.8	310.5	317.0	311.1	303.4	301.1	297.0	293.4	291.7
35°	262.2	272.2	284.0	289.9	296.4	290.5	285.2	275.2	268.1	267.5	268.7
37.5°	246.9	251.0	260.4	270.4	276.9	274.0	264.0	253.9	252.2	252.2	253.4
40°	233.3	235.1	239.2	252.2	264.0	255.1	242.7	239.8	239.8	239.2	239.8
42.5°	219.8	221.5	221.5	231.6	250.4	236.3	226.8	226.8	226.8	227.4	229.2
45°	207.4	208.0	207.4	214.5	232.1	220.4	213.9	215.6	216.8	218.0	219.2
47.5°	196.8	197.4	196.8	202.7	211.5	206.8	203.3	205.6	208.0	209.8	210.9
50°	187.4	186.8	188.0	191.5	195.6	196.8	194.4	198.0	199.1	201.5	204.4
52.5°	179.1	178.5	179.7	181.5	187.4	187.4	187.4	190.3	192.7	195.0	199.1
55°	169.7	170.3	172.0	174.4	182.1	180.9	181.5	183.8	186.2	189.7	192.1
57.5°	160.8	162.0	164.4	167.9	175.6	175.0	175.6	176.8	179.7	181.5	183.8
60°	150.8	153.2	156.1	158.5	166.2	165.6	168.5	170.9	172.6	172.6	173.8
62.5°	140.8	144.4	147.3	149.1	157.3	157.9	162.0	163.8	165.0	163.8	165.6
65°	130.8	136.1	137.3	139.6	147.9	148.5	153.2	157.3	156.1	155.0	157.9
67.5°	120.8	127.3	126.7	129.6	137.9	139.0	143.2	150.2	147.9	146.7	149.1
70°	109.6	114.3	114.9	116.7	127.9	126.1	132.6	139.0	137.3	137.9	137.9
72.5°	97.2	101.3	101.3	104.9	116.7	113.7	119.0	126.1	126.1	125.5	125.5
75°	82.5	84.8	87.2	92.5	104.9	101.3	104.9	111.4	112.5	111.4	111.4
77.5°	66.6	70.1	71.3	78.4	87.2	86.6	90.1	93.1	95.4	94.3	94.3
80°	47.1	50.7	55.4	63.0	68.3	70.1	71.9	74.2	75.4	75.4	76.6
82.5°	26.5	31.8	35.9	43.6	46.0	54.8	54.2	56.0	54.2	47.7	53.0
85°	5.9	11.2	15.9	20.0	23.0	31.8	33.6	37.7	31.2	28.9	28.9
87.5°	0.0	0.0	0.0	0.0	0.0	4.7	9.4	13.0	11.2	9.4	9.4
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: P458671  
 CATALOG NUMBER: GALN-SA2B-735-U-SLL

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2870.5	2870.5	2870.5	2870.5	2870.5	2870.5	2870.5	2870.5	2870.5	2870.5
2.5°	2505.2	2556.5	2618.4	2725.0	2799.8	2880.6	2961.9	3048.5	3071.5	3095.0
5°	2030.9	2131.7	2186.5	2329.7	2479.9	2670.8	2826.9	2997.8	3069.1	3085.6
7.5°	1538.4	1606.7	1750.5	1895.4	2081.6	2281.9	2521.2	2787.5	2870.5	2905.3
10°	1219.6	1312.7	1438.8	1594.4	1757.6	1973.2	2243.1	2554.2	2672.0	2691.4
12.5°	1038.2	1141.9	1279.1	1443.5	1597.9	1760.5	2032.7	2353.8	2479.9	2521.7
15°	830.2	955.7	1114.2	1287.4	1455.3	1633.2	1909.0	2271.3	2416.9	2465.8
17.5°	652.2	753.6	925.0	1113.0	1312.1	1537.2	1883.1	2310.8	2489.9	2535.3
20°	499.0	571.5	715.9	914.4	1147.7	1442.3	1889.5	2459.9	2674.3	2736.2
22.5°	431.3	468.4	556.2	745.3	1006.3	1359.9	1916.1	2664.3	2923.0	3026.1
25°	390.6	410.1	459.6	583.3	871.4	1279.7	1976.7	2939.5	3270.6	3339.0
27.5°	355.9	370.0	400.7	489.6	748.9	1205.5	2047.4	3244.7	3595.3	3697.2
30°	322.9	341.7	370.6	434.8	670.5	1137.7	2136.4	3492.1	3868.6	3963.5
32.5°	297.5	316.4	342.9	396.5	603.9	1066.4	2189.4	3709.6	4091.9	4172.7
35°	276.9	292.8	320.5	365.9	553.3	1012.2	2178.8	3882.2	4308.2	4390.7
37.5°	262.2	275.7	303.4	337.0	515.0	955.7	2173.5	4110.2	4571.5	4667.0
40°	248.6	262.8	288.1	318.2	476.7	889.1	2176.5	4336.5	4852.0	4947.5
42.5°	238.0	253.9	274.6	312.9	437.2	835.5	2176.5	4533.3	5095.9	5187.8
45°	229.2	246.3	266.3	312.3	406.0	794.8	2161.7	4702.3	5290.4	5368.7
47.5°	221.5	240.4	269.3	301.7	398.3	765.4	2148.8	4837.9	5448.9	5522.5
50°	216.2	238.6	286.3	289.3	400.7	756.5	2211.2	5008.7	5588.5	5652.1
52.5°	212.1	239.2	285.8	271.0	396.5	762.4	2341.5	5275.6	5782.3	5787.1
55°	203.9	238.6	271.0	250.4	379.4	772.4	2508.8	5663.3	6085.8	6089.3
57.5°	195.6	232.1	251.6	232.7	344.7	772.4	2710.3	6030.4	6451.7	6454.6
60°	187.4	241.6	220.9	217.4	299.3	758.3	2923.0	6191.8	6566.6	6596.6
62.5°	179.1	243.3	197.4	203.9	266.3	724.1	3081.5	6013.3	6411.0	6454.0
65°	169.7	196.2	182.1	189.7	249.2	667.0	3031.4	5686.3	6118.8	6170.0
67.5°	158.5	166.2	165.6	175.0	243.3	582.7	2767.4	5272.7	5804.1	5801.2
70°	144.9	149.1	150.8	160.8	232.1	517.3	2306.1	4735.9	5384.0	5450.0
72.5°	130.8	134.3	136.1	144.9	220.9	480.2	1790.0	3996.5	4663.5	4766.6
75°	115.5	117.8	120.2	127.9	209.2	425.4	1275.0	3050.8	3571.7	3733.7
77.5°	99.6	99.6	102.5	110.2	176.2	351.2	855.5	2139.9	2419.8	2585.4
80°	80.7	81.3	80.1	88.4	129.6	240.4	486.1	1429.4	1610.3	1642.1
82.5°	61.9	60.1	60.7	64.8	96.6	163.8	259.2	887.9	905.0	887.3
85°	38.9	38.9	37.7	42.4	61.9	85.4	141.4	543.8	424.8	404.2
87.5°	15.9	13.0	14.7	17.1	29.5	34.8	55.4	111.9	43.0	39.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)