

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: P459251

Luminaire Tested: **GALN-SA7B-735-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459251  
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-SA7B-735-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 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: 31824 lumens  
Efficiency: N/A  
Efficacy: 111.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

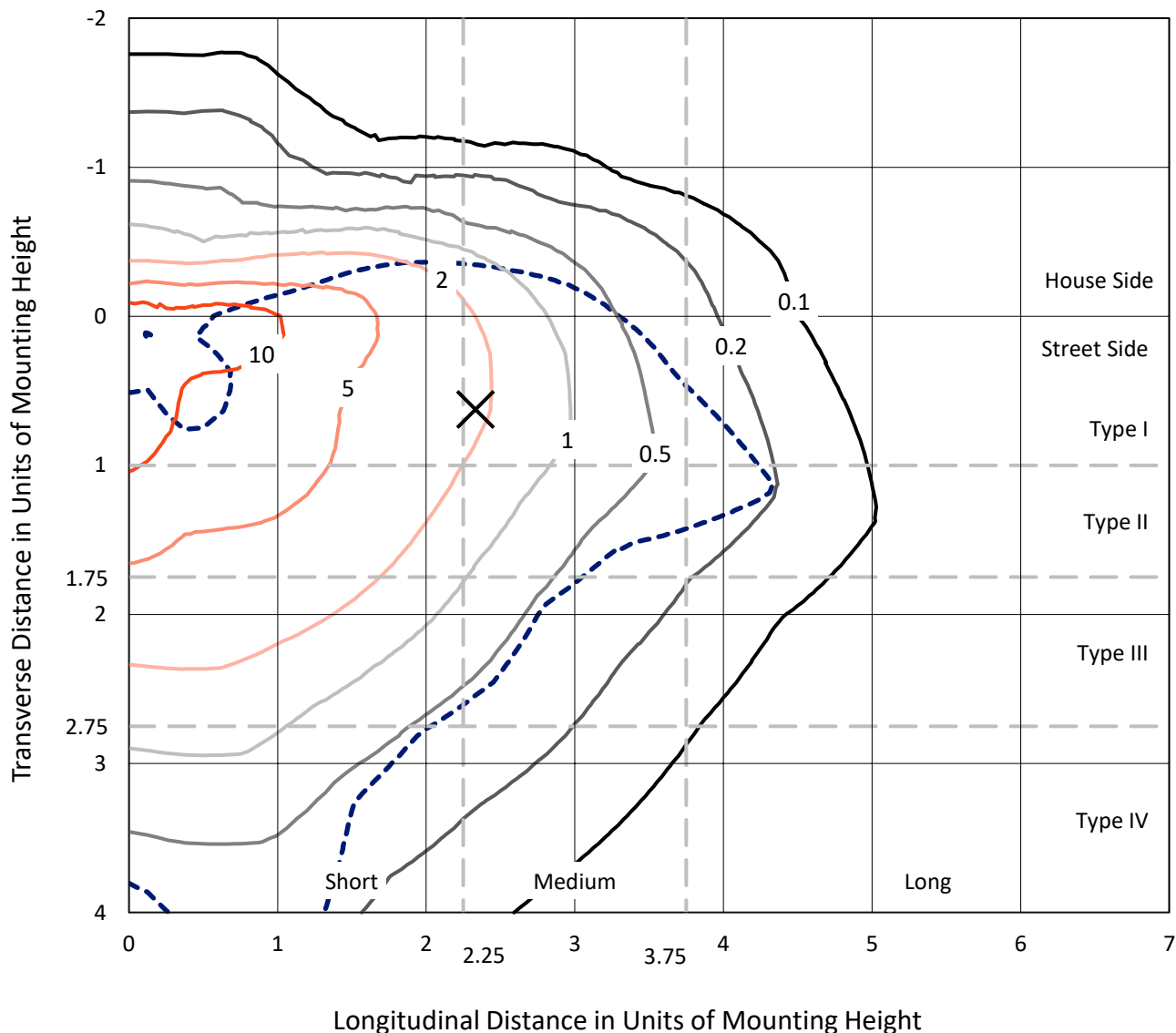
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P459251  
 CATALOG NUMBER: GALN-SA7B-735-U-SLL

### Iso-Footcandle Lines of Horizontal Illumination

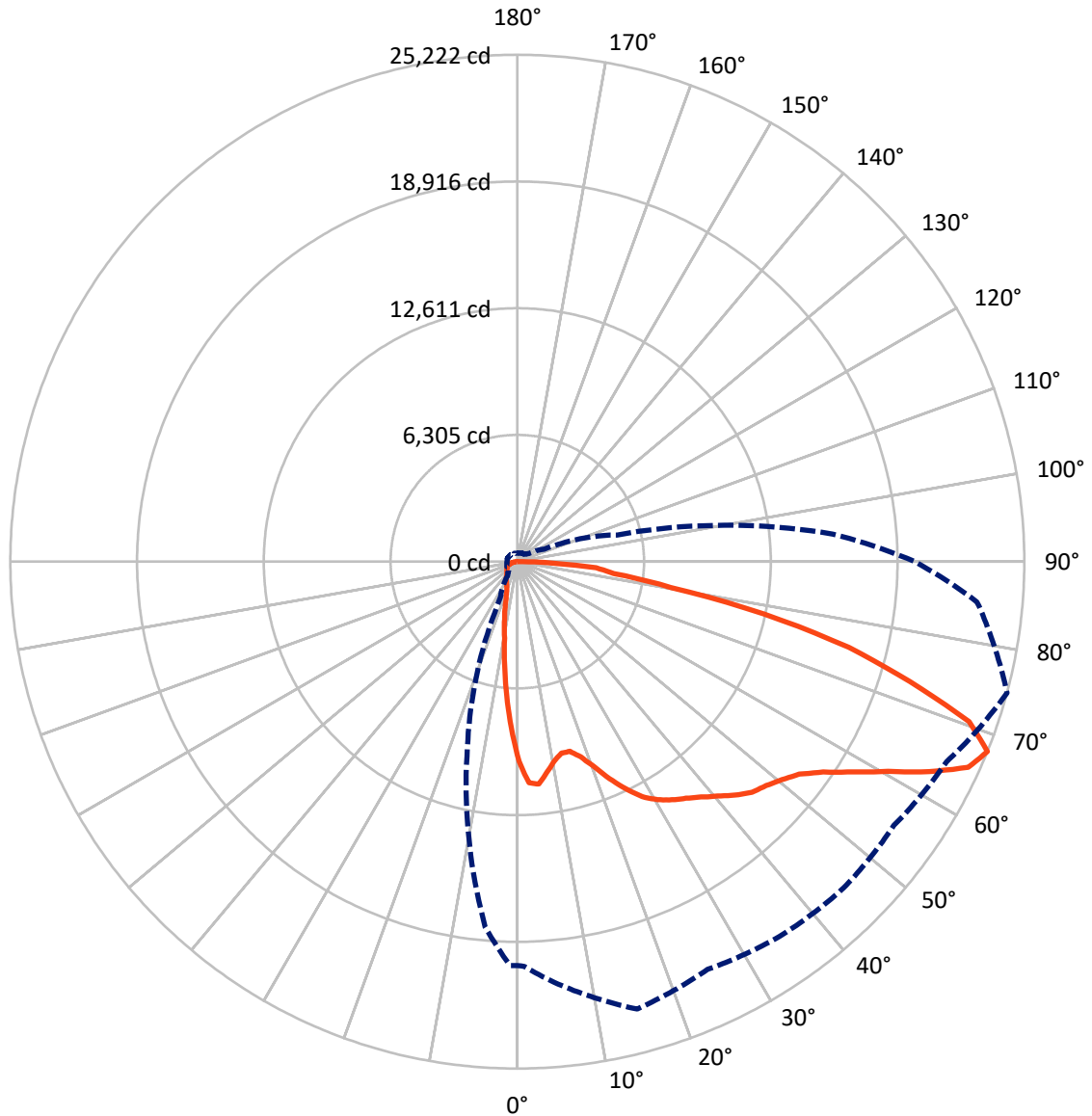
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.6 fc  
 Type III - Medium - N/A

REPORT NUMBER: P459251  
CATALOG NUMBER: GALN-SA7B-735-U-SLL

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P459251

CATALOG NUMBER: GALN-SA7B-735-U-SLL

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5378.9	0.0	5378.9
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	26445.1	0.0	26445.1
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	31824.0	0.0	31824.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	754.1	2.4
10°-20°	1572.7	4.9
20°-30°	2263.2	7.1
30°-40°	3259.6	10.2
40°-50°	4578.9	14.4
50°-60°	6385.9	20.1
60°-70°	7592.4	23.9
70°-80°	4471.5	14.1
80°-90°	945.6	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°	31824.0	100.0
0°-180°	31824.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P459251

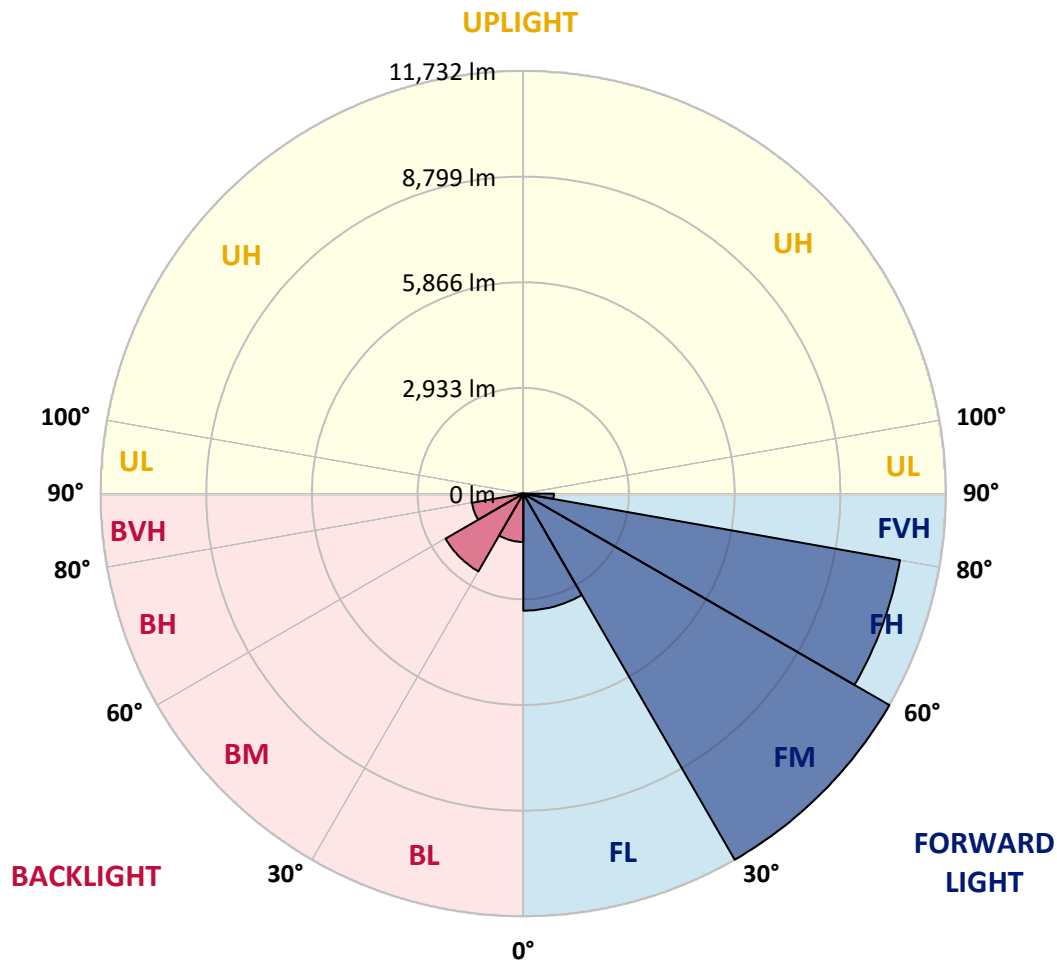
CATALOG NUMBER: GALN-SA7B-735-U-SLL

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3248.4	10.2			
FM	(30°-60°)	11732.3	36.9			
FH	(60°-80°)	10616.6	33.4			G4/12000
FVH	(80°-90°)	847.8	2.7			G5
BL	(0°-30°)	1341.7	4.2	B3/2500		
BM	(30°-60°)	2492.1	7.8	B2/2500		
BH	(60°-80°)	1447.4	4.5	B3/2500		G3/2500
BVH	(80°-90°)	97.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Medium





REPORT NUMBER: P459251

CATALOG NUMBER: GALN-SA7B-735-U-SLL

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9942.6	9942.6	9942.6	9942.6	9942.6	9942.6	9942.6	9942.6	9942.6	9942.6	9942.6
2.5°	10720.1	10734.4	10826.2	11093.6	11277.2	11344.6	11391.5	11303.8	11218.0	11009.9	10695.6
5°	10687.4	10771.1	11009.9	11609.9	12083.3	12287.4	12348.6	12085.4	11650.7	11116.0	10473.2
7.5°	10063.0	10175.2	10542.6	11548.6	12383.3	12860.9	12797.6	12322.1	11538.4	10585.4	9687.5
10°	9322.2	9446.7	9889.5	11105.8	12181.3	12838.4	12838.4	12258.8	11218.0	10085.4	9050.8
12.5°	8734.4	8865.1	9371.2	10650.7	11760.9	12383.3	12487.4	11989.5	10987.4	9769.1	8632.4
15°	8540.6	8667.1	9212.0	10375.2	11316.0	11695.6	11730.3	11567.0	10875.2	9791.6	8614.0
17.5°	8781.4	8944.6	9495.6	10456.8	10907.8	10930.3	10956.8	11085.4	10887.4	10201.7	8985.5
20°	9477.3	9652.8	10228.3	10720.1	10550.7	10318.1	10332.4	10663.0	11032.3	10879.3	9873.2
22.5°	10481.3	10634.4	11224.2	11183.4	10399.7	9920.1	9820.1	10281.3	11246.6	11724.2	10818.1
25°	11565.0	11744.6	12422.1	11871.1	10442.6	9683.4	9620.1	10056.9	11469.1	12513.9	11909.9
27.5°	12805.8	12981.3	13515.9	12564.9	10667.0	9665.0	9589.5	10036.4	11669.1	13244.5	12952.7
30°	13728.2	13889.4	14252.7	13148.6	10942.5	9787.5	9693.6	10197.7	11840.5	13744.5	13969.0
32.5°	14452.6	14620.0	14817.9	13511.9	11305.8	10009.9	9836.5	10491.5	12065.0	14126.1	14722.0
35°	15207.7	15405.7	15391.4	13834.3	11644.6	10267.1	10097.7	10916.0	12418.0	14458.8	15677.1
37.5°	16164.8	16244.4	16142.4	14124.1	12050.7	10730.3	10636.4	11546.6	12920.0	14860.8	16793.4
40°	17136.2	17295.4	16770.9	14475.1	12544.5	11601.7	11591.5	12479.2	13515.9	15332.2	17875.0
42.5°	17968.9	18103.6	17358.7	14781.2	13142.5	12664.9	12742.5	13730.2	14297.5	15879.1	18744.4
45°	18595.4	18715.8	17901.5	15077.1	13930.2	13893.5	14350.6	15071.0	15283.2	16371.0	19254.5
47.5°	19128.0	19244.3	18279.1	15526.1	14903.7	15360.8	16156.7	16468.9	16126.1	16652.6	19826.0
50°	19577.0	19611.7	18538.2	16060.8	16111.8	17158.7	17930.1	18132.1	16958.7	17056.7	20321.9
52.5°	20044.3	19999.4	18985.2	16734.2	17417.9	18864.8	19426.0	19636.2	17756.6	17554.6	21044.3
55°	21091.2	21134.1	19987.2	17583.2	18738.2	20540.2	21279.0	21076.9	18640.3	18470.9	21962.6
57.5°	22356.5	22319.8	21397.3	18911.7	20083.1	22099.4	22650.4	22325.9	19819.8	19730.0	22893.2
60°	22848.3	22897.3	22576.9	20340.2	21409.6	23464.6	24027.9	23523.8	21234.1	21193.3	23595.2
62.5°	22354.5	22630.0	22846.3	21611.6	22540.2	24468.7	25027.9	24452.4	22709.5	23005.5	24087.1
65°	21370.8	21430.0	22166.7	22689.1	23085.0	24634.0	24925.8	24619.7	23942.2	24656.4	24064.6
67.5°	20093.3	20144.3	21007.6	23042.2	22383.0	22756.5	22960.6	22870.8	23560.5	25221.7	22956.5
70°	18877.0	18836.2	19748.4	22142.2	19485.2	18917.8	19087.2	18805.6	20330.0	23840.1	20783.1
72.5°	16509.7	16656.7	17636.2	19640.3	15428.1	14505.7	14875.1	14146.5	15636.3	20417.8	16868.9
75°	12932.3	12967.0	14601.6	16483.2	11638.4	10183.4	10683.4	10379.3	11977.2	17032.2	11648.6
77.5°	8954.8	8877.3	10634.4	12589.4	8299.8	7454.9	7463.1	7318.2	8363.0	12540.5	7914.1
80°	5687.6	5569.2	6657.0	7777.3	5703.9	6101.9	5901.9	5895.7	5444.7	7736.5	4785.6
82.5°	3073.4	3204.0	4206.0	4875.4	4091.7	4716.2	4322.3	4195.8	3736.6	4842.7	3061.1
85°	1400.0	1522.4	2242.8	3316.2	3108.1	3142.8	2099.9	2477.5	3091.7	3932.5	1634.6
87.5°	136.7	175.5	463.3	1565.3	1061.2	836.7	312.2	602.0	777.5	1397.9	130.6
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: P459251  
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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9942.6	9942.6	9942.6	9942.6	9942.6	9942.6	9942.6	9942.6	9942.6	9942.6	9942.6
2.5°	10567.0	10460.9	10099.7	9801.8	9485.4	9244.6	8930.4	8720.2	8575.3	8356.9	8330.4
5°	10081.3	9822.2	9193.6	8552.8	7999.8	7583.5	7161.0	6773.3	6544.7	6473.3	6381.4
7.5°	9263.0	8826.3	8018.1	7283.5	6648.8	6028.4	5550.9	5212.1	4985.6	4852.9	4693.7
10°	8589.5	8083.4	7099.8	6199.8	5677.4	5291.7	4871.3	4508.0	4228.4	3989.7	3859.1
12.5°	8136.5	7565.1	6459.0	5728.4	5324.3	4914.1	4422.3	4014.2	3601.9	3330.5	3214.2
15°	7999.8	7395.7	6261.0	5493.7	4914.1	4377.4	3826.4	3293.8	2885.6	2628.5	2542.8
17.5°	8334.5	7603.9	6259.0	5181.5	4432.5	3791.7	3085.6	2585.6	2167.3	1975.5	1914.2
20°	8958.9	8003.9	6277.4	4873.3	3910.1	3008.1	2244.8	1834.6	1634.6	1553.0	1522.4
22.5°	9830.3	8614.0	6332.5	4569.3	3338.7	2310.1	1681.6	1473.4	1402.0	1387.7	1381.6
25°	10903.8	9369.1	6518.2	4295.8	2857.1	1763.2	1406.1	1312.2	1271.4	1257.1	1255.1
27.5°	11891.5	10344.6	6742.7	4061.1	2391.8	1520.4	1271.4	1191.8	1151.0	1148.9	1153.0
30°	12783.3	11160.9	6930.4	3797.8	2038.7	1351.0	1183.6	1104.0	1065.3	1063.2	1075.5
32.5°	13554.7	11832.3	7069.2	3538.7	1842.8	1246.9	1104.0	1018.3	985.7	979.6	985.7
35°	14379.2	12501.7	7005.9	3336.6	1730.6	1161.2	1044.9	961.2	922.4	904.1	904.1
37.5°	15320.0	13191.5	6897.8	3169.3	1679.5	1089.8	993.8	912.2	873.4	855.1	853.0
40°	16346.5	13881.2	6748.8	3020.3	1628.5	1046.9	959.2	873.4	826.5	808.1	804.1
42.5°	17252.6	14471.0	6626.3	2922.4	1544.9	1055.1	928.5	844.9	785.7	761.2	759.2
45°	18040.3	15064.9	6603.9	2865.2	1475.5	1042.8	920.4	822.4	753.0	726.5	722.4
47.5°	18656.6	15683.2	6732.5	2832.6	1400.0	977.5	973.4	808.1	724.5	695.9	691.8
50°	19407.6	16560.7	7026.3	2765.2	1330.6	916.3	1028.5	806.1	702.0	665.3	655.1
52.5°	20407.6	17703.6	7424.3	2644.8	1230.6	859.2	981.6	806.1	675.5	638.8	626.5
55°	21919.8	19160.7	7814.1	2475.4	1089.8	783.7	885.7	781.6	636.7	604.1	595.9
57.5°	22921.8	20225.9	8063.0	2240.8	914.3	728.6	763.2	742.8	597.9	563.2	563.2
60°	22972.8	20511.7	7944.7	1944.8	804.1	677.5	663.2	749.0	563.2	526.5	522.4
62.5°	22385.1	19811.7	7328.4	1679.5	744.9	622.4	600.0	657.1	528.6	491.8	485.7
65°	21466.7	18026.0	6259.0	1553.0	712.2	573.5	540.8	538.8	491.8	457.1	449.0
67.5°	19779.0	15752.6	5142.7	1479.5	695.9	518.4	487.7	477.5	449.0	420.4	416.3
70°	17291.3	13193.5	4124.4	1448.9	687.7	461.2	436.7	424.5	400.0	377.5	375.5
72.5°	13452.7	10701.7	3404.0	1428.5	683.7	408.2	381.6	365.3	351.0	330.6	330.6
75°	9663.0	7873.2	2597.9	1287.7	632.6	351.0	322.4	312.2	291.8	275.5	279.6
77.5°	6091.7	5301.9	1710.2	946.9	489.8	281.6	257.1	251.0	234.7	212.2	226.5
80°	4114.2	3728.5	997.9	595.9	308.2	206.1	198.0	195.9	177.5	153.1	155.1
82.5°	2799.9	2746.9	518.4	338.8	177.5	120.4	116.3	120.4	100.0	81.6	81.6
85°	1093.8	1493.8	244.9	132.6	57.1	18.4	26.5	28.6	16.3	8.2	10.2
87.5°	20.4	153.1	6.1	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: P459251  
 CATALOG NUMBER: GALN-SA7B-735-U-SLL

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	9942.6	9942.6	9942.6	9942.6	9942.6	9942.6	9942.6	9942.6	9942.6	9942.6	9942.6
2.5°	8289.6	8271.2	8301.8	8171.2	8197.7	8246.7	8271.2	8285.5	8487.5	8440.6	8569.1
5°	6467.2	6448.8	6567.2	6583.5	6644.7	6632.5	6691.6	6705.9	6779.4	6805.9	6985.5
7.5°	4703.9	4783.5	4918.2	4987.6	5091.7	5124.3	5093.7	5169.2	5016.2	5126.4	5159.0
10°	3779.5	3683.6	3626.4	3785.6	3806.0	3957.0	3895.8	3846.8	3936.6	3940.7	4026.4
12.5°	3146.8	2940.7	2804.0	2848.9	2897.9	2963.2	2973.4	3071.3	3136.6	3197.9	3248.9
15°	2467.3	2395.8	2271.4	2210.1	2279.5	2306.1	2369.3	2450.9	2520.3	2538.7	2608.1
17.5°	1893.8	1906.1	1885.7	1848.9	1891.8	1912.2	1916.3	1918.3	1936.7	1924.4	2026.5
20°	1524.4	1567.3	1618.3	1626.5	1640.8	1651.0	1632.6	1563.2	1565.3	1608.1	1640.8
22.5°	1379.6	1387.7	1444.9	1463.2	1508.1	1489.8	1436.7	1404.0	1400.0	1410.2	1426.5
25°	1265.3	1277.5	1318.3	1346.9	1381.6	1348.9	1310.2	1279.6	1275.5	1285.7	1302.0
27.5°	1163.2	1181.6	1218.3	1246.9	1279.6	1248.9	1212.2	1185.7	1183.6	1181.6	1191.8
30°	1081.6	1102.0	1128.5	1161.2	1183.6	1157.1	1122.4	1108.1	1106.1	1102.0	1106.1
32.5°	1000.0	1032.6	1059.2	1075.5	1097.9	1077.5	1051.0	1042.8	1028.5	1016.3	1010.2
35°	908.1	942.8	983.6	1004.1	1026.5	1006.1	987.7	953.0	928.5	926.5	930.6
37.5°	855.1	869.4	902.0	936.7	959.2	949.0	914.3	879.6	873.4	873.4	877.5
40°	808.1	814.3	828.5	873.4	914.3	883.6	840.8	830.6	830.6	828.5	830.6
42.5°	761.2	767.3	767.3	802.0	867.3	818.3	785.7	785.7	785.7	787.7	793.9
45°	718.3	720.4	718.3	742.8	804.1	763.2	740.8	746.9	751.0	755.1	759.2
47.5°	681.6	683.7	681.6	702.0	732.6	716.3	704.1	712.2	720.4	726.5	730.6
50°	649.0	646.9	651.0	663.2	677.5	681.6	673.4	685.7	689.8	697.9	708.1
52.5°	620.4	618.3	622.4	628.6	649.0	649.0	649.0	659.2	667.3	675.5	689.8
55°	587.7	589.8	595.9	604.1	630.6	626.5	628.6	636.7	644.9	657.1	665.3
57.5°	557.1	561.2	569.4	581.6	608.1	606.1	608.1	612.2	622.4	628.6	636.7
60°	522.4	530.6	540.8	549.0	575.5	573.5	583.7	591.8	597.9	597.9	602.0
62.5°	487.7	500.0	510.2	516.3	544.9	546.9	561.2	567.3	571.4	567.3	573.5
65°	453.0	471.4	475.5	483.7	512.2	514.3	530.6	544.9	540.8	536.7	546.9
67.5°	418.4	440.8	438.8	449.0	477.5	481.6	495.9	520.4	512.2	508.1	516.3
70°	379.6	395.9	397.9	404.1	442.8	436.7	459.2	481.6	475.5	477.5	477.5
72.5°	336.7	351.0	351.0	363.3	404.1	393.9	412.2	436.7	436.7	434.7	434.7
75°	285.7	293.9	302.0	320.4	363.3	351.0	363.3	385.7	389.8	385.7	385.7
77.5°	230.6	242.9	246.9	271.4	302.0	300.0	312.2	322.4	330.6	326.5	326.5
80°	163.3	175.5	191.8	218.4	236.7	242.9	249.0	257.1	261.2	261.2	265.3
82.5°	91.8	110.2	124.5	151.0	159.2	189.8	187.7	193.9	187.7	165.3	183.7
85°	20.4	38.8	55.1	69.4	79.6	110.2	116.3	130.6	108.2	100.0	100.0
87.5°	0.0	0.0	0.0	0.0	0.0	16.3	32.7	44.9	38.8	32.7	32.7
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: P459251  
 CATALOG NUMBER: GALN-SA7B-735-U-SLL

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9942.6	9942.6	9942.6	9942.6	9942.6	9942.6	9942.6	9942.6	9942.6	9942.6
2.5°	8677.3	8854.8	9069.1	9438.5	9697.7	9977.3	10258.9	10558.9	10638.5	10720.1
5°	7034.5	7383.5	7573.3	8069.2	8589.5	9250.8	9791.6	10383.4	10630.3	10687.4
7.5°	5328.4	5565.1	6063.1	6565.1	7210.0	7903.9	8732.4	9654.8	9942.6	10063.0
10°	4224.4	4546.8	4983.5	5522.3	6087.6	6834.5	7769.2	8846.7	9254.8	9322.2
12.5°	3595.8	3955.0	4430.5	4999.9	5534.5	6097.8	7040.6	8152.8	8589.5	8734.4
15°	2875.4	3310.1	3859.1	4459.1	5040.7	5657.0	6612.1	7867.1	8371.2	8540.6
17.5°	2259.1	2610.1	3204.0	3855.0	4544.8	5324.3	6522.3	8003.9	8624.2	8781.4
20°	1728.5	1979.5	2479.5	3167.3	3975.4	4995.8	6544.7	8520.2	9263.0	9477.3
22.5°	1493.8	1622.4	1926.5	2581.6	3485.6	4710.1	6636.5	9228.3	10124.2	10481.3
25°	1353.0	1420.4	1591.8	2020.3	3018.3	4432.5	6846.7	10181.3	11328.2	11565.0
27.5°	1232.6	1281.6	1387.7	1695.9	2593.8	4175.4	7091.6	11238.5	12452.7	12805.8
30°	1118.3	1183.6	1283.6	1506.1	2322.4	3940.7	7399.8	12095.6	13399.6	13728.2
32.5°	1030.6	1095.9	1187.7	1373.4	2091.8	3693.8	7583.5	12848.6	14173.1	14452.6
35°	959.2	1014.3	1110.2	1267.3	1916.3	3506.0	7546.7	13446.6	14922.0	15207.7
37.5°	908.1	955.1	1051.0	1167.3	1783.6	3310.1	7528.4	14236.3	15834.2	16164.8
40°	861.2	910.2	997.9	1102.0	1651.0	3079.5	7538.6	15020.0	16805.6	17136.2
42.5°	824.5	879.6	951.0	1083.6	1514.2	2893.8	7538.6	15701.6	17650.5	17968.9
45°	793.9	853.0	922.4	1081.6	1406.1	2753.0	7487.5	16287.3	18324.0	18595.4
47.5°	767.3	832.6	932.6	1044.9	1379.6	2650.9	7442.6	16756.7	18872.9	19128.0
50°	749.0	826.5	991.8	1002.0	1387.7	2620.3	7659.0	17348.5	19356.6	19577.0
52.5°	734.7	828.5	989.8	938.7	1373.4	2640.7	8110.0	18272.9	20028.0	20044.3
55°	706.1	826.5	938.7	867.3	1314.2	2675.4	8689.5	19615.8	21079.0	21091.2
57.5°	677.5	804.1	871.4	806.1	1193.8	2675.4	9387.5	20887.2	22346.3	22356.5
60°	649.0	836.7	765.3	753.0	1036.7	2626.5	10124.2	21446.3	22744.2	22848.3
62.5°	620.4	842.8	683.7	706.1	922.4	2508.1	10673.2	20828.0	22205.5	22354.5
65°	587.7	679.6	630.6	657.1	863.2	2310.1	10499.7	19695.4	21193.3	21370.8
67.5°	549.0	575.5	573.5	606.1	842.8	2018.3	9585.4	18262.7	20103.5	20093.3
70°	502.0	516.3	522.4	557.1	804.1	1791.8	7987.5	16403.6	18648.4	18877.0
72.5°	453.0	465.3	471.4	502.0	765.3	1663.2	6199.8	13842.5	16152.6	16509.7
75°	400.0	408.2	416.3	442.8	724.5	1473.4	4416.2	10567.0	12371.1	12932.3
77.5°	344.9	344.9	355.1	381.6	610.2	1216.3	2963.2	7412.0	8381.4	8954.8
80°	279.6	281.6	277.5	306.1	449.0	832.6	1683.6	4950.9	5577.4	5687.6
82.5°	214.3	208.2	210.2	224.5	334.7	567.3	897.9	3075.4	3134.6	3073.4
85°	134.7	134.7	130.6	146.9	214.3	295.9	489.8	1883.6	1471.4	1400.0
87.5°	55.1	44.9	51.0	59.2	102.0	120.4	191.8	387.7	149.0	136.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)