

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: P459397

Luminaire Tested: **GALN-SA8C-735-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459397  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA8C-735-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37979 lumens  
Efficiency: N/A  
Efficacy: 88.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

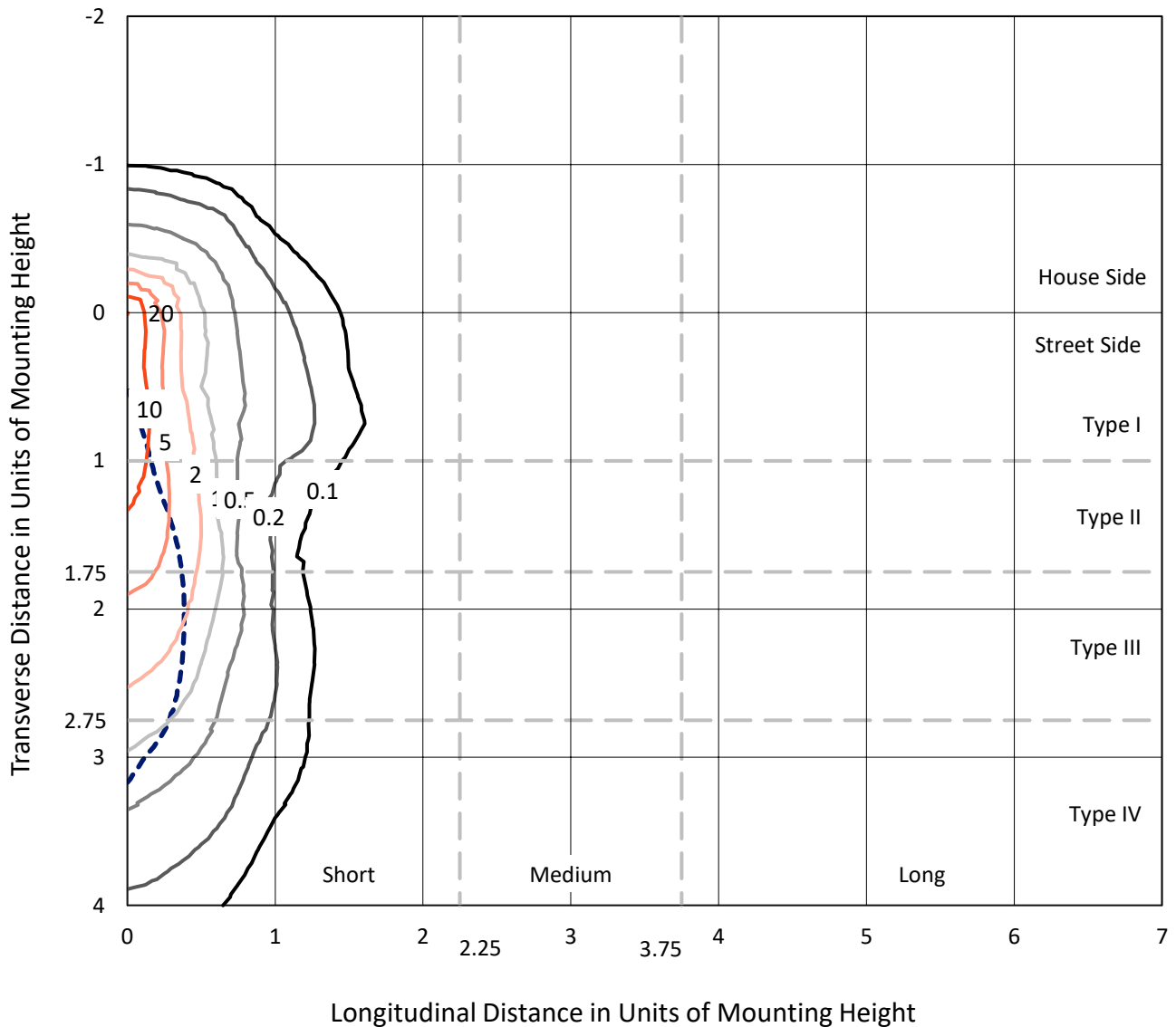
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

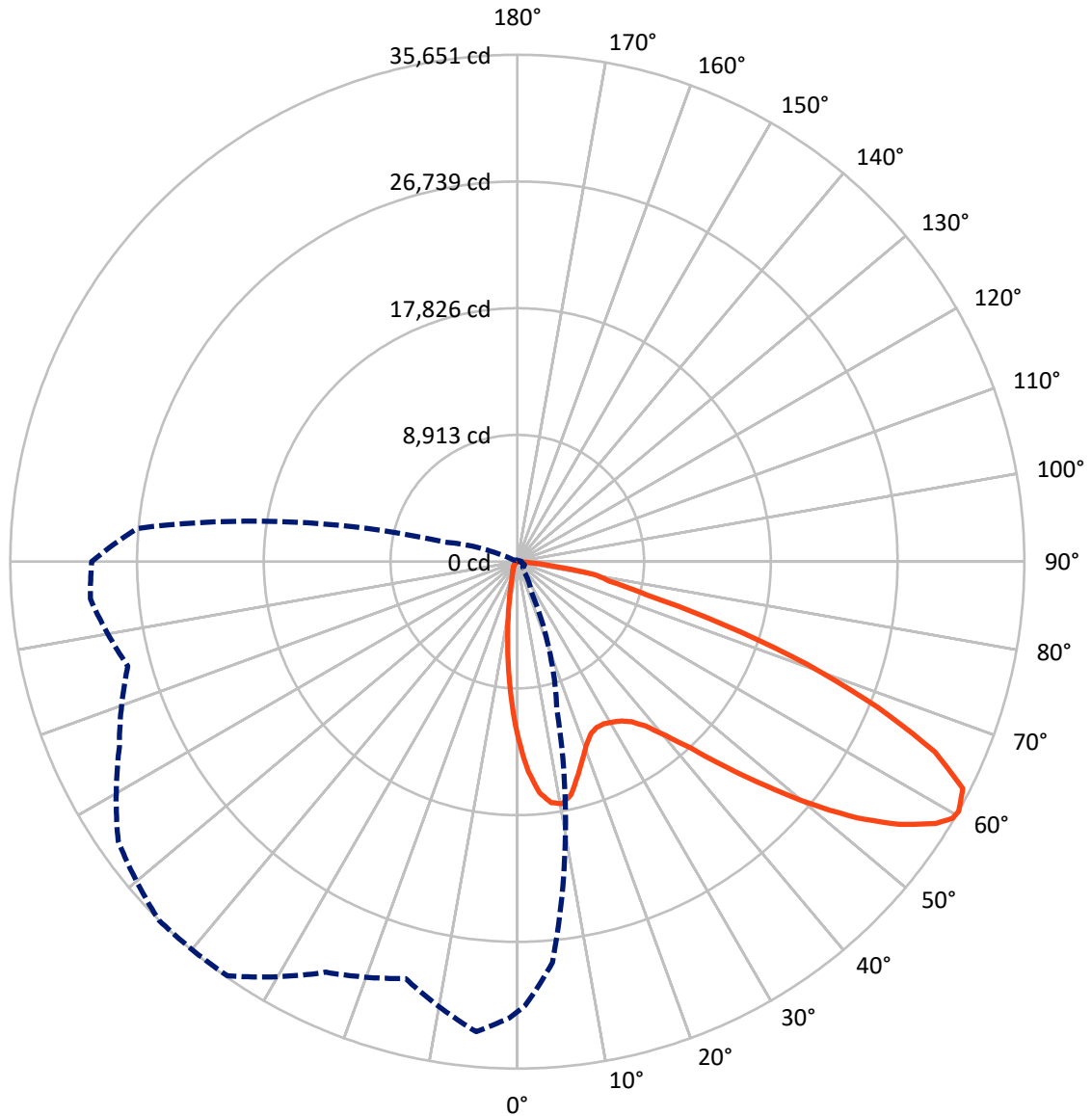
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

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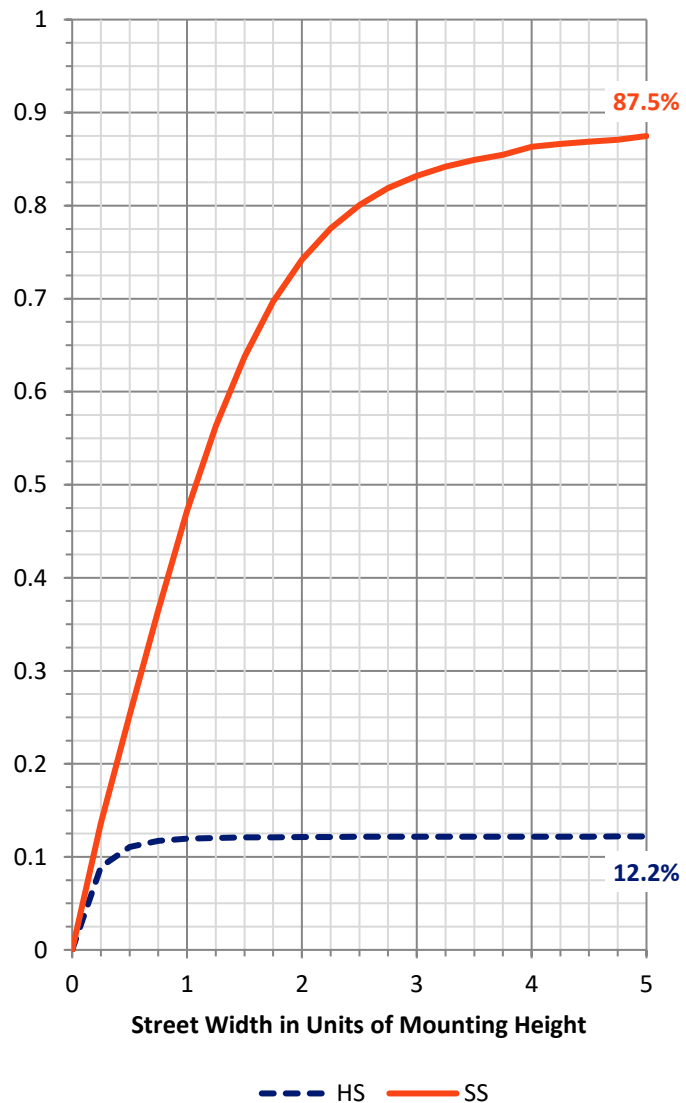
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4684.3	0.0	4684.3
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	33294.7	0.0	33294.7
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	37979.0	0.0	37979.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	933.6	2.5
10°-20°	1854.2	4.9
20°-30°	2718.7	7.2
30°-40°	4043.2	10.6
40°-50°	5884.1	15.5
50°-60°	8485.4	22.3
60°-70°	9333.0	24.6
70°-80°	4180.4	11.0
80°-90°	546.2	1.4
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°	37979.0	100.0
0°-180°	37979.0	100.0



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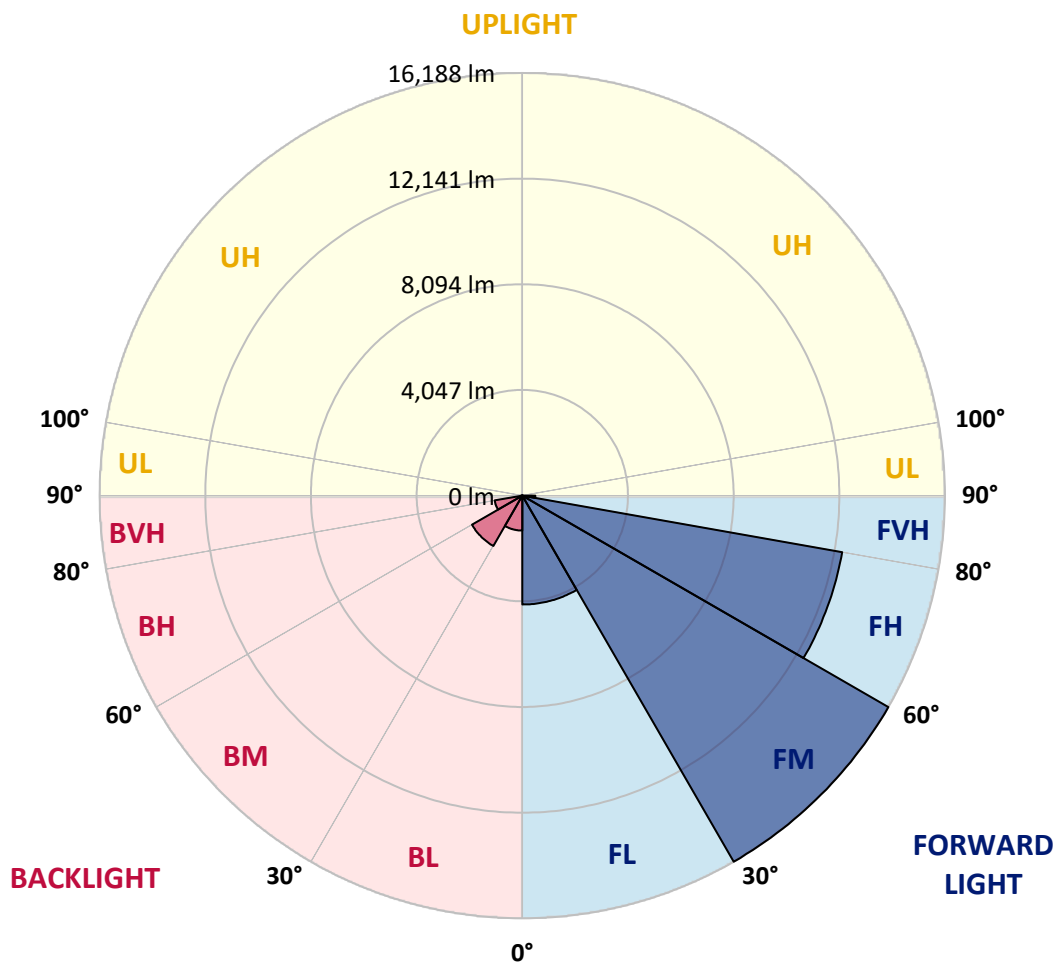
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4168.1	11.0			
FM	(30°-60°)	16187.8	42.6			
FH	(60°-80°)	12439.2	32.8			G5
FVH	(80°-90°)	499.5	1.3			G3/500
BL	(0°-30°)	1338.5	3.5	B3/2500		
BM	(30°-60°)	2224.9	5.9	B2/2500		
BH	(60°-80°)	1074.2	2.8	B3/2500		G3/2500
BVH	(80°-90°)	46.7	0.1			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12552.6	12552.6	12552.6	12552.6	12552.6	12552.6	12552.6	12552.6	12552.6	12552.6	12552.6
2.5°	13799.8	13739.2	13600.6	13179.1	12812.4	12333.2	11848.2	11467.1	11233.3	10803.1	10606.8
5°	13369.6	13398.5	12997.2	12131.1	11166.9	10508.6	9789.8	9218.1	8588.8	8190.4	7771.8
7.5°	12246.6	12188.8	11752.9	10546.1	9374.0	8421.3	7511.9	6772.9	6308.1	5935.6	5623.8
10°	11285.2	11241.9	10684.7	9131.5	7872.8	7159.7	6544.8	5898.1	5398.7	4853.0	4417.1
12.5°	10681.8	10583.7	9942.8	8320.3	7295.4	6631.4	5961.6	5289.0	4599.0	4047.6	3519.2
15°	10479.7	10338.3	9625.2	8040.2	6925.9	6082.9	5242.8	4469.0	3675.1	3066.0	2667.6
17.5°	10846.4	10612.5	9853.3	7991.2	6484.2	5366.9	4333.4	3325.8	2500.1	2035.3	1789.9
20°	11686.5	11418.0	10430.7	7942.1	5993.4	4564.3	3294.0	2350.0	1729.3	1475.2	1339.6
22.5°	12933.7	12564.2	11285.2	8020.0	5540.1	3781.9	2378.9	1660.0	1374.2	1215.4	1120.1
25°	14432.0	14123.1	12367.8	8297.2	5182.1	3167.0	1839.0	1356.9	1157.7	1059.5	987.3
27.5°	16074.7	15581.0	13768.0	8629.2	4855.9	2690.7	1613.8	1212.5	1030.7	941.2	903.6
30°	17243.9	16860.0	14940.1	8860.2	4448.8	2332.7	1475.2	1195.2	1033.5	926.7	857.4
32.5°	18398.7	17908.0	15921.7	8967.0	4151.5	2084.4	1276.0	1042.2	906.5	851.7	782.4
35°	19634.4	19120.5	16900.4	8909.2	3929.2	1919.8	1157.7	929.6	776.6	684.2	614.9
37.5°	20884.4	20341.7	17873.3	8701.4	3790.6	1853.4	1065.3	883.4	733.3	638.0	563.0
40°	22368.3	21643.7	18785.6	8531.0	3646.3	1818.8	1004.7	854.5	701.5	600.5	525.4
42.5°	23580.9	22890.9	19648.8	8441.5	3548.1	1738.0	1004.7	831.5	681.3	568.7	490.8
45°	24729.9	24013.9	20581.3	8513.7	3507.7	1636.9	1016.2	828.6	666.9	545.6	467.7
47.5°	25691.3	25070.6	21539.8	8785.1	3455.7	1527.2	955.6	869.0	658.2	525.4	444.6
50°	26825.8	26225.4	22807.2	9333.6	3363.3	1417.5	880.5	935.4	655.3	508.1	424.4
52.5°	28425.2	27775.7	24556.7	9957.2	3216.1	1250.1	811.2	926.7	643.8	479.2	404.2
55°	30379.7	29854.3	26583.3	10704.9	3014.0	1062.4	701.5	822.8	609.2	430.2	369.5
57.5°	31632.7	31185.2	28101.9	11028.3	2705.1	869.0	617.8	690.0	557.2	384.0	329.1
59°	31779.9	31375.7	28419.5	10921.5	2503.0	793.9	577.4	591.8	542.8	358.0	306.0
60°	31655.8	31237.2	28292.4	10713.6	2315.4	742.0	542.8	525.4	545.6	343.6	288.7
62.5°	30859.0	30143.0	27059.7	9659.8	2023.8	681.3	482.1	430.2	482.1	308.9	256.9
65°	29320.2	28246.2	24620.2	8175.9	1908.3	646.7	410.0	360.9	366.6	271.4	222.3
67.5°	26632.4	25278.4	21372.3	6642.9	1859.2	649.6	346.4	323.3	282.9	231.0	196.3
70°	22382.8	21031.7	17148.7	5465.1	1836.1	649.6	294.5	277.2	236.7	193.4	170.3
72.5°	15861.1	14406.0	11568.1	4292.9	1654.2	646.7	251.2	251.2	193.4	161.7	138.6
75°	8961.2	8972.7	7272.3	3037.1	1374.2	534.1	202.1	199.2	141.5	124.1	103.9
77.5°	5222.6	5130.2	4902.1	1304.9	638.0	242.5	141.5	121.3	98.2	89.5	75.1
80°	2684.9	2208.5	2150.8	473.5	228.1	153.0	98.2	69.3	63.5	57.7	52.0
82.5°	793.9	796.8	710.2	190.5	127.0	101.0	49.1	37.5	34.6	31.8	31.8
85°	54.9	34.6	40.4	57.7	77.9	40.4	2.9	8.7	8.7	11.5	14.4
87.5°	5.8	2.9	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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12552.6	12552.6	12552.6	12552.6	12552.6	12552.6	12552.6	12552.6	12552.6	12552.6	12552.6
2.5°	10390.3	10517.3	10280.5	10286.3	10090.0	10153.5	9922.6	9997.6	9861.9	9965.9	10271.9
5°	7818.0	7846.8	7656.3	7595.7	7624.5	7742.9	7789.1	7578.3	7667.8	7491.7	7480.2
7.5°	5508.4	5543.0	5433.3	5418.9	5626.7	5577.7	5667.1	5450.6	5245.6	5335.1	5170.6
10°	4278.5	4134.2	3909.0	3845.5	3805.0	3831.0	3831.0	3634.7	3605.8	3527.9	3646.3
12.5°	3377.8	3201.7	2988.0	2699.3	2627.2	2621.4	2514.6	2341.3	2286.5	2220.1	2318.2
15°	2453.9	2381.8	2202.8	2041.1	1876.5	1844.8	1671.6	1530.1	1342.4	1316.5	1307.8
17.5°	1726.4	1619.6	1616.7	1524.3	1429.1	1365.5	1203.9	1042.2	970.0	961.4	961.4
20°	1293.4	1255.8	1195.2	1183.7	1154.8	1082.6	938.3	851.7	817.0	819.9	831.5
22.5°	1088.4	1062.4	1007.6	981.6	970.0	906.5	799.7	742.0	724.6	724.6	727.5
25°	972.9	949.8	889.2	848.8	834.3	788.1	704.4	661.1	646.7	646.7	646.7
27.5°	886.3	857.4	793.9	759.3	733.3	681.3	629.4	586.1	571.6	571.6	574.5
30°	825.7	793.9	736.2	690.0	649.6	603.4	560.1	522.5	505.2	502.3	505.2
32.5°	744.8	716.0	658.2	629.4	583.2	528.3	493.7	459.0	441.7	444.6	441.7
35°	580.3	571.6	531.2	539.9	513.9	467.7	435.9	398.4	378.2	375.3	381.1
37.5°	528.3	493.7	447.5	450.4	441.7	424.4	372.4	332.0	317.6	317.6	320.5
40°	487.9	453.3	401.3	375.3	378.2	378.2	323.3	280.0	265.6	262.7	268.5
42.5°	453.3	418.6	360.9	317.6	306.0	320.5	274.3	231.0	216.5	210.7	216.5
45°	430.2	392.6	326.2	277.2	242.5	259.8	225.2	190.5	173.2	173.2	170.3
47.5°	407.1	372.4	300.2	239.6	202.1	193.4	184.8	153.0	135.7	132.8	135.7
50°	386.9	352.2	271.4	207.9	170.3	150.1	150.1	121.3	109.7	103.9	106.8
52.5°	366.6	329.1	245.4	184.8	147.2	121.3	106.8	98.2	89.5	86.6	89.5
55°	337.8	300.2	219.4	158.8	127.0	101.0	83.7	80.8	75.1	69.3	75.1
57.5°	303.1	268.5	193.4	135.7	101.0	77.9	69.3	66.4	60.6	57.7	57.7
59°	282.9	251.2	179.0	118.4	89.5	69.3	63.5	60.6	54.9	49.1	52.0
60°	271.4	245.4	170.3	109.7	80.8	63.5	57.7	54.9	49.1	46.2	49.1
62.5°	239.6	219.4	150.1	89.5	63.5	46.2	40.4	43.3	40.4	37.5	40.4
65°	210.7	193.4	127.0	69.3	49.1	31.8	28.9	37.5	34.6	31.8	34.6
67.5°	187.7	167.4	106.8	52.0	34.6	17.3	20.2	31.8	31.8	28.9	31.8
70°	161.7	144.3	86.6	37.5	17.3	8.7	14.4	23.1	28.9	26.0	28.9
72.5°	132.8	112.6	66.4	26.0	8.7	0.0	8.7	20.2	28.9	26.0	28.9
75°	103.9	83.7	49.1	14.4	0.0	0.0	2.9	17.3	28.9	26.0	28.9
77.5°	75.1	60.6	28.9	2.9	0.0	0.0	2.9	17.3	28.9	26.0	28.9
80°	49.1	43.3	11.5	0.0	0.0	0.0	2.9	17.3	28.9	28.9	31.8
82.5°	31.8	23.1	0.0	0.0	0.0	0.0	5.8	23.1	31.8	34.6	34.6
85°	14.4	0.0	0.0	0.0	0.0	0.0	11.5	28.9	37.5	37.5	37.5
87.5°	0.0	0.0	0.0	0.0	0.0	5.8	20.2	34.6	43.3	43.3	43.3
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°	12552.6	12552.6	12552.6	12552.6	12552.6	12552.6	12552.6	12552.6	12552.6	12552.6	12552.6
2.5°	10323.9	10505.7	10762.7	11158.2	11478.6	11983.9	12370.7	12899.0	13433.1	13594.8	13846.0
5°	7598.5	7832.4	8415.6	8946.8	9281.7	10349.8	11025.4	12090.7	13046.3	13505.3	14004.8
7.5°	5277.4	5554.6	5999.2	6741.1	7445.5	8314.5	9405.8	10624.1	12024.3	12679.6	13384.1
10°	3704.0	4050.4	4676.9	5286.1	6172.4	6998.0	8074.9	9420.2	10964.8	11738.5	12621.9
12.5°	2338.5	2647.4	3475.9	4160.1	5265.9	6224.3	7217.5	8435.8	10225.7	11019.6	11946.3
15°	1336.7	1596.5	1983.4	2861.0	4088.0	5355.4	6593.9	8008.5	9847.5	10826.2	11828.0
17.5°	996.0	1065.3	1238.5	1735.1	2852.3	4333.4	6019.4	7878.6	10104.4	11253.5	12396.7
20°	837.2	883.4	964.3	1160.6	1818.8	3337.4	5459.3	7901.7	10935.9	12379.4	13464.9
22.5°	750.6	779.5	845.9	972.9	1241.4	2430.8	4803.9	8037.4	11943.4	13762.2	15015.2
25°	658.2	695.8	753.5	863.2	1033.5	1686.0	4157.3	8340.5	13355.2	15517.5	16695.4
27.5°	586.1	620.7	678.4	779.5	906.5	1287.6	3403.8	8600.3	14844.9	17284.4	18248.6
30°	513.9	548.5	606.3	687.1	802.6	1042.2	2592.5	8753.3	16291.2	18609.5	19351.4
32.5°	453.3	482.1	537.0	609.2	704.4	883.4	2044.0	8594.5	17397.0	19813.4	20309.9
35°	392.6	427.3	473.5	539.9	623.6	753.5	1700.4	8046.0	18346.8	21051.9	21230.9
37.5°	329.1	369.5	418.6	479.2	545.6	692.9	1365.5	7439.8	19363.0	22596.4	22301.9
40°	277.2	314.7	360.9	427.3	487.9	635.1	1050.9	6793.1	20460.0	24045.7	23471.2
42.5°	225.2	265.6	320.5	381.1	482.1	554.3	814.1	6123.3	21444.5	25307.3	24527.8
45°	179.0	213.6	271.4	349.3	479.2	476.4	629.4	5462.2	22186.5	26208.0	25316.0
47.5°	141.5	170.3	228.1	340.7	441.7	404.2	505.2	5052.2	22966.0	27019.3	25919.3
50°	112.6	141.5	196.3	355.1	386.9	346.4	424.4	5118.6	23719.5	27432.1	26167.6
52.5°	95.3	124.1	170.3	280.0	297.4	303.1	372.4	5424.6	24692.4	27873.8	26661.3
55°	83.7	109.7	144.3	196.3	231.0	271.4	340.7	5646.9	25994.4	28820.8	27749.7
57.5°	66.4	95.3	129.9	167.4	190.5	236.7	314.7	5664.3	27172.3	30036.2	29196.1
59°	60.6	86.6	121.3	158.8	170.3	213.6	297.4	5517.0	27215.6	30218.1	29860.1
60°	54.9	83.7	115.5	147.2	161.7	202.1	282.9	5346.7	26823.0	29929.4	30134.3
62.5°	46.2	72.2	101.0	118.4	138.6	167.4	245.4	4728.9	24920.4	28621.6	29626.2
65°	40.4	63.5	86.6	98.2	115.5	144.3	216.5	3784.8	22818.7	26848.9	28171.2
67.5°	37.5	57.7	75.1	83.7	101.0	132.8	193.4	2673.3	20096.3	24600.0	25985.7
70°	34.6	54.9	66.4	77.9	89.5	112.6	164.6	1559.0	15480.0	20656.4	22120.1
72.5°	34.6	52.0	57.7	66.4	77.9	101.0	153.0	843.0	10583.7	15757.2	17648.1
75°	34.6	49.1	52.0	57.7	69.3	92.4	135.7	441.7	6842.1	10947.4	13511.1
77.5°	34.6	46.2	52.0	54.9	66.4	80.8	118.4	277.2	4558.5	7667.8	9131.5
80°	37.5	46.2	49.1	54.9	63.5	75.1	98.2	184.8	2679.1	4613.4	5557.4
82.5°	40.4	46.2	52.0	57.7	66.4	72.2	86.6	115.5	1235.6	3051.5	3452.8
85°	43.3	49.1	54.9	60.6	69.3	72.2	80.8	83.7	202.1	1377.1	1862.1
87.5°	46.2	52.0	57.7	63.5	75.1	75.1	75.1	75.1	69.3	147.2	375.3
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: P459397

CATALOG NUMBER: GALN-SA8C-735-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12552.6	12552.6	12552.6	12552.6	12552.6	12552.6	12552.6	12552.6	12552.6	12552.6
2.5°	14163.5	14489.8	14717.8	14775.6	14611.0	14536.0	14328.1	14004.8	13808.4	13799.8
5°	14925.7	15690.8	16222.0	16311.5	15993.9	15456.9	14818.9	13996.1	13514.0	13369.6
7.5°	14795.8	16135.3	16989.9	17114.0	16579.9	15555.1	14319.4	12994.3	12468.9	12246.6
10°	14261.7	15895.7	17116.9	17313.2	16600.2	15156.7	13586.1	12108.0	11455.5	11285.2
12.5°	13805.6	15456.9	16542.4	16813.8	16273.9	14833.3	13147.3	11539.3	10840.6	10681.8
15°	13606.4	14937.3	15601.3	15739.8	15650.3	14631.2	13101.1	11452.7	10653.0	10479.7
17.5°	13805.6	14495.5	14579.3	14720.7	14919.9	14611.0	13545.7	11923.2	11060.0	10846.4
20°	14328.1	14111.6	13765.1	13825.8	14281.9	14694.7	14336.8	12965.4	11914.6	11686.5
22.5°	15217.3	14016.3	13231.0	13179.1	13756.5	14974.8	15497.3	14377.2	13158.9	12933.7
25°	16308.6	14255.9	13034.7	12922.1	13551.5	15384.7	16758.9	16106.5	14775.6	14432.0
27.5°	17498.0	14752.5	13034.7	12925.0	13534.2	15748.5	17838.7	17636.6	16450.0	16074.7
30°	18150.5	15162.4	13222.4	13098.2	13747.8	15959.2	18416.1	18996.3	17708.8	17243.9
32.5°	18733.6	15731.2	13589.0	13355.2	14195.3	16271.0	18932.8	20151.1	18710.5	18398.7
35°	19270.6	16340.3	14094.3	13822.9	14784.2	16698.3	19504.5	21363.7	20104.9	19634.4
37.5°	19862.4	17047.6	14882.4	14651.4	15768.7	17529.8	20182.9	22957.3	21476.3	20884.4
40°	20506.2	17867.5	16178.7	16080.5	17333.4	18470.9	21040.3	24657.7	23041.0	22368.3
42.5°	21161.6	18811.6	17766.5	17928.2	19106.1	19790.3	21920.9	25965.5	24322.8	23580.9
45°	21756.3	20018.3	19830.7	20630.4	21173.1	21077.9	22573.3	26886.5	25440.1	24729.9
47.5°	22506.9	21776.5	22327.9	23560.7	23575.1	22478.1	23067.0	27640.0	26401.5	25691.3
50°	23347.0	23852.3	25552.7	26808.5	26470.7	23855.1	23644.4	28532.1	27394.6	26825.8
52.5°	24319.9	26176.3	28532.1	29926.5	29138.3	25356.4	24605.8	29496.3	28970.9	28425.2
55°	25451.6	27761.2	31502.8	32614.2	31820.3	27221.4	26066.6	30804.1	30752.1	30379.7
57.5°	26730.6	29435.7	33223.4	34727.5	34020.2	29409.7	28107.7	32036.9	31840.5	31632.7
59°	27741.0	30296.0	33982.7	35541.6	35114.4	30942.7	29479.0	32804.8	32091.7	31779.9
60°	28353.1	30879.2	34262.7	35651.4	35553.2	31855.0	30348.0	33180.1	32088.8	31655.8
62.5°	30169.0	31898.3	34155.9	35163.5	35547.4	33604.5	32897.2	33592.9	31494.1	30859.0
65°	30815.7	31560.5	32386.2	32262.0	32591.2	33515.0	34525.4	33139.7	30223.8	29320.2
67.5°	29556.9	27856.5	28148.1	27319.5	27157.8	29796.6	33864.3	30922.5	27738.1	26632.4
70°	24914.7	21340.6	21193.3	21574.4	20529.3	24123.6	30408.6	26652.6	23635.7	22382.8
72.5°	19611.3	15081.6	13840.2	15243.3	15211.5	18404.5	25261.1	18912.6	15967.9	15861.1
75°	15422.3	10500.0	9215.2	9443.3	9882.1	13323.4	20119.4	12009.8	9833.1	8961.2
77.5°	10352.7	7439.8	6940.3	6660.3	7133.7	8554.1	12728.7	6513.0	5514.1	5222.6
80°	5967.4	5404.4	6137.7	5571.9	5825.9	5390.0	6331.2	2988.0	2479.9	2684.9
82.5°	3883.0	3077.5	3279.6	2436.6	3331.6	3360.4	2032.4	883.4	747.7	793.9
85°	2428.0	1443.5	811.2	577.4	1149.0	2113.3	635.1	54.9	63.5	54.9
87.5°	629.4	239.6	101.0	150.1	184.8	164.6	147.2	8.7	2.9	5.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)