

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: P533125

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

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533125  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8C-735-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29237 lumens  
Efficiency: N/A  
Efficacy: 68.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G2

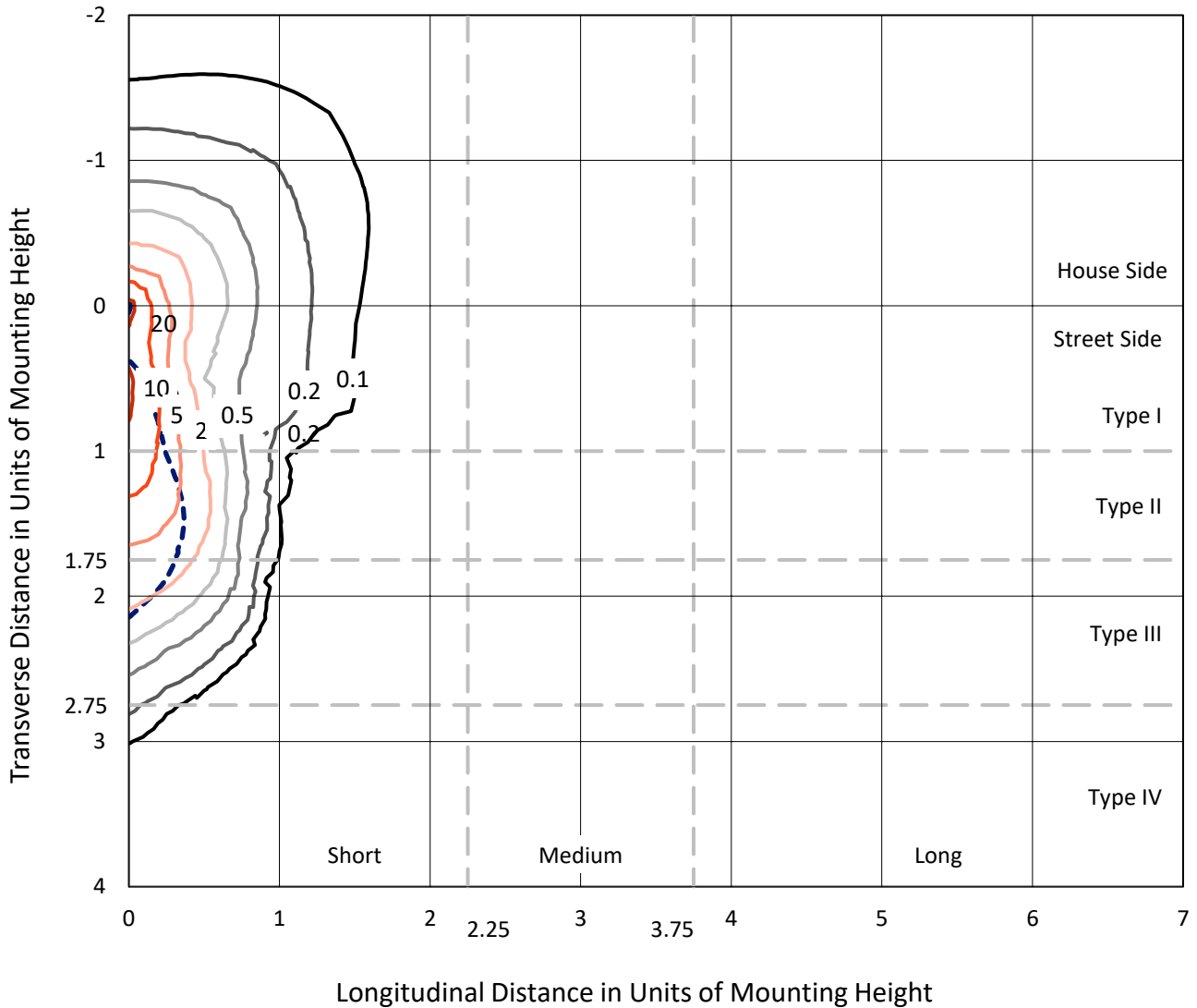
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

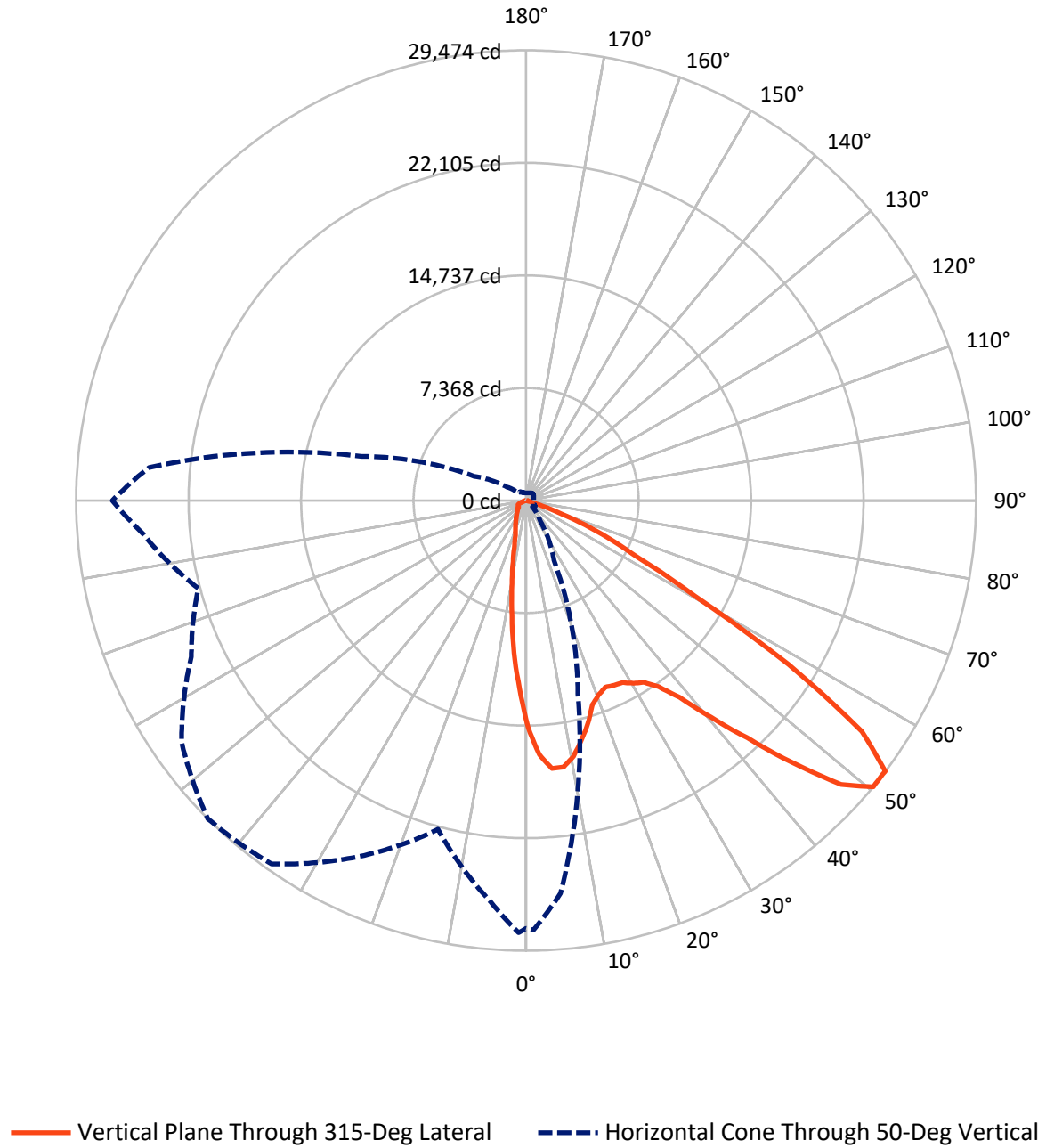
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5856.2	0.0	5856.2
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	23380.8	0.0	23380.8
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	29237.0	0.0	29237.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1080.7	3.7
10°-20°	2147.9	7.3
20°-30°	3226.8	11.0
30°-40°	4843.3	16.6
40°-50°	6806.9	23.3
50°-60°	7342.5	25.1
60°-70°	3409.1	11.7
70°-80°	320.7	1.1
80°-90°	59.1	0.2
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°	29237.0	100.0
0°-180°	29237.0	100.0

**Coefficient of Utilization**



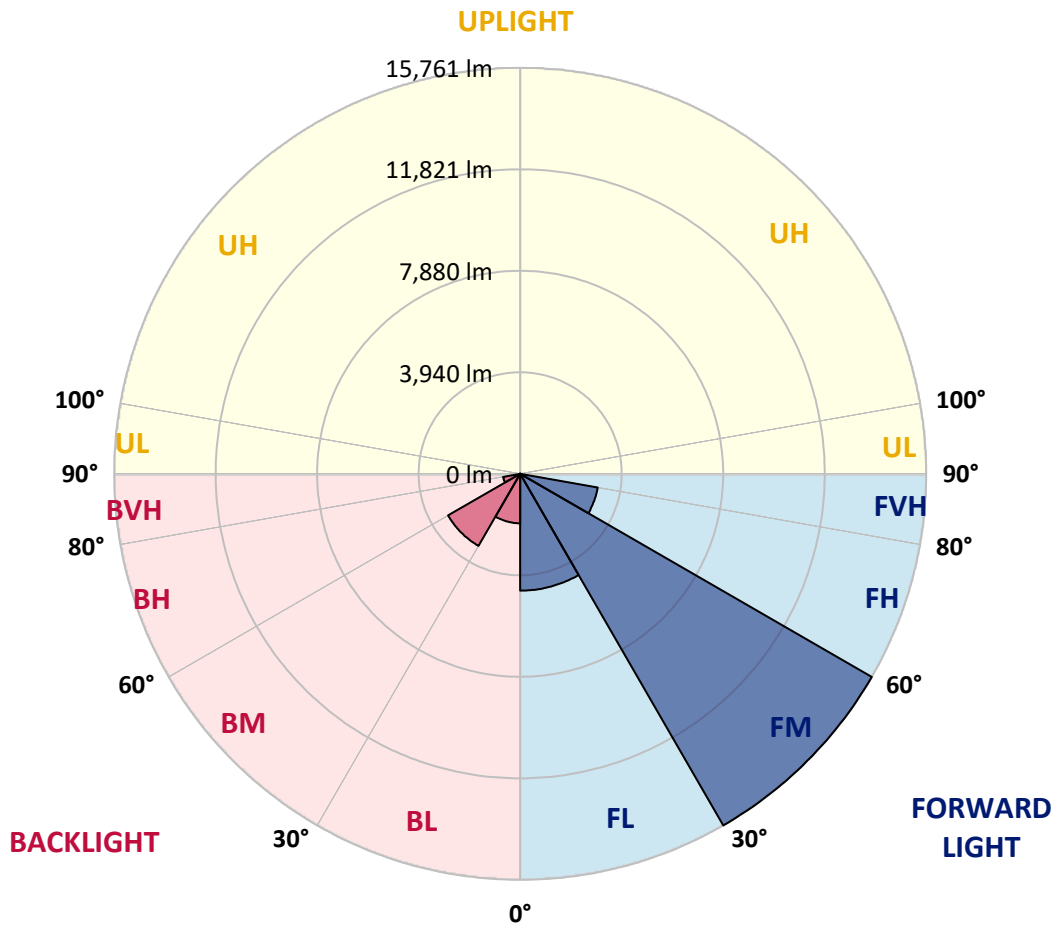
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4535.9	15.5			
FM (30°-60°)	15760.9	53.9			
FH (60°-80°)	3057.4	10.5			G2/5000
FVH (80°-90°)	26.6	0.1			G1/100
BL (0°-30°)	1919.5	6.6	B3/2500		
BM (30°-60°)	3231.7	11.1	B3/5000		
BH (60°-80°)	672.4	2.3	B2/1000		G2/1000
BVH (80°-90°)	32.5	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-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	14826.8	14826.8	14826.8	14826.8	14826.8	14826.8	14826.8	14826.8	14826.8	14826.8	14826.8
2.5°	15412.7	15174.9	14873.3	14623.8	14252.6	13504.3	13301.2	13057.6	12854.6	12581.9	12199.1
5°	14014.7	13939.3	13800.1	12860.4	12181.7	11276.8	10534.3	10221.0	9809.2	9472.7	9229.1
7.5°	12947.4	12645.7	12204.9	11259.4	10174.6	9205.9	8382.2	7900.7	7355.4	7169.8	6839.1
10°	11804.6	11874.2	11224.5	9896.2	8585.2	7802.1	7291.6	6827.5	6334.5	6009.6	5539.8
12.5°	11439.2	11212.9	10714.1	9072.5	7952.9	7222.0	6601.3	6027.0	5505.0	4982.9	4530.4
15°	11677.0	11329.0	10632.9	8898.4	7465.6	6554.9	5777.6	5000.3	4518.8	3851.7	3381.9
17.5°	12529.7	12251.3	11317.4	9084.1	7216.2	5916.8	4762.5	3961.9	3225.2	2622.0	2384.1
20°	13950.9	13556.5	12384.7	9321.9	6844.9	5145.3	3863.3	2877.2	2181.1	1925.9	1792.4
22.5°	15343.1	15128.5	13649.3	9780.1	6514.3	4460.8	2900.4	1937.5	1630.0	1583.6	1496.6
25°	17994.1	17350.2	15580.9	10609.7	6259.1	3816.9	2186.9	1560.4	1380.6	1345.8	1357.4
27.5°	19571.9	19032.4	17367.6	11160.7	5974.8	3323.9	1850.5	1432.8	1311.0	1235.6	1206.6
30°	21085.9	20459.4	18255.1	11485.6	5365.7	2801.8	1641.6	1374.8	1345.8	1235.6	1200.8
32.5°	22251.9	21637.0	19537.1	11972.9	5116.3	2465.3	1351.6	1073.1	997.7	986.1	1090.6
35°	24038.5	23383.0	20633.4	12239.7	4924.9	2291.3	1171.8	957.1	870.1	835.3	841.1
37.5°	25703.3	25256.7	21648.6	12344.1	4721.9	2239.1	1049.9	858.5	783.1	759.9	754.1
40°	27095.5	26097.8	22611.5	12454.3	4634.8	2140.5	974.5	783.1	730.9	696.1	696.1
42.5°	27733.6	26718.5	23690.5	12390.5	4611.6	1983.9	974.5	719.3	678.7	643.9	638.1
45°	27594.4	27182.5	24171.9	12361.5	4611.6	1827.3	887.5	701.9	643.9	597.5	585.9
47.5°	27954.1	27414.6	24775.2	12483.3	4518.8	1717.0	748.3	736.7	609.1	551.1	539.5
50°	28017.9	28122.3	25825.2	13115.6	4315.8	1577.8	585.9	725.1	585.9	498.9	487.3
52°	28435.5	27785.8	26144.2	13452.1	4101.2	1473.4	493.1	620.7	562.7	464.1	452.5
52.5°	27861.2	28284.7	26219.6	13573.9	4124.4	1403.8	475.7	609.1	551.1	464.1	435.1
55°	27217.4	27623.4	25912.2	13834.9	3782.1	1102.2	371.3	440.9	498.9	406.1	388.7
57.5°	23655.7	24067.5	22518.7	12668.9	3080.2	777.3	307.4	330.6	440.9	377.1	359.6
60°	21027.9	20732.1	18899.0	10569.1	2186.9	435.1	243.6	255.2	481.5	348.0	342.2
62.5°	19218.0	18585.8	15795.6	8161.7	1334.2	290.0	191.4	197.2	371.3	324.8	324.8
65°	14217.8	13510.1	10493.6	4936.5	655.5	203.0	145.0	156.6	232.0	278.4	278.4
67.5°	8115.3	7842.7	5069.9	2227.5	272.6	127.6	110.2	121.8	179.8	226.2	214.6
70°	3729.9	3347.1	1949.1	469.9	127.6	87.0	87.0	98.6	145.0	168.2	156.6
72.5°	1090.6	1032.5	475.7	75.4	52.2	52.2	58.0	75.4	110.2	127.6	116.0
75°	81.2	52.2	34.8	23.2	23.2	34.8	46.4	75.4	110.2	121.8	98.6
77.5°	5.8	11.6	5.8	5.8	17.4	34.8	52.2	92.8	145.0	150.8	110.2
80°	5.8	5.8	0.0	5.8	17.4	34.8	58.0	104.4	162.4	174.0	92.8
82.5°	0.0	0.0	0.0	5.8	23.2	46.4	69.6	110.2	150.8	185.6	98.6
85°	0.0	0.0	0.0	5.8	34.8	63.8	81.2	29.0	17.4	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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14826.8	14826.8	14826.8	14826.8	14826.8	14826.8	14826.8	14826.8	14826.8	14826.8	14826.8
2.5°	12471.7	12320.9	12262.9	12315.1	12297.7	12280.3	12599.3	12529.7	12518.1	12622.5	12599.3
5°	9362.5	9095.7	9826.6	9530.7	9838.2	10023.8	10058.6	10076.0	10290.6	10064.4	10360.2
7.5°	6670.9	6740.5	6734.7	6932.0	7285.8	7599.0	7784.7	7639.7	7628.1	7599.0	7471.4
10°	5330.9	5209.1	5185.9	5139.5	5249.7	5516.6	5742.8	5563.0	5435.3	5609.4	5557.2
12.5°	4356.4	4188.2	4095.4	3909.7	3915.5	4095.4	4095.4	4095.4	4223.0	4321.6	4397.0
15°	3341.3	3202.0	3202.0	3016.4	2975.8	2981.6	3074.4	3086.0	3289.1	3347.1	3376.1
17.5°	2337.7	2262.3	2349.3	2424.7	2378.3	2389.9	2424.7	2436.3	2465.3	2442.1	2500.1
20°	1798.2	1786.6	1809.8	1943.3	2041.9	2099.9	2059.3	2001.3	1966.5	1885.3	1885.3
22.5°	1525.6	1548.8	1589.4	1699.6	1827.3	1862.1	1815.7	1682.2	1577.8	1566.2	1572.0
25°	1357.4	1380.6	1444.4	1514.0	1583.6	1641.6	1595.2	1496.6	1438.6	1386.4	1386.4
27.5°	1253.0	1264.6	1299.4	1351.6	1409.6	1456.0	1438.6	1386.4	1322.6	1299.4	1247.2
30°	1171.8	1189.2	1229.8	1241.4	1293.6	1316.8	1287.8	1276.2	1235.6	1206.6	1189.2
32.5°	1131.2	1125.4	1154.4	1166.0	1171.8	1189.2	1154.4	1171.8	1166.0	1119.6	1102.2
35°	852.7	899.1	974.5	1038.3	1055.7	1078.9	1073.1	1049.9	986.1	933.9	870.1
37.5°	765.7	794.7	835.3	887.5	957.1	986.1	974.5	916.5	841.1	806.3	794.7
40°	707.7	725.1	759.9	794.7	864.3	916.5	875.9	823.7	765.7	736.7	719.3
42.5°	655.5	661.3	678.7	713.5	765.7	846.9	777.3	707.7	684.5	667.1	655.5
45°	597.5	597.5	620.7	638.1	696.1	771.5	701.9	638.1	626.5	614.9	609.1
47.5°	551.1	556.9	568.5	591.7	638.1	690.3	643.9	591.7	562.7	556.9	545.3
50°	493.1	498.9	522.1	545.3	603.3	632.3	603.3	545.3	516.3	498.9	498.9
52°	446.7	464.1	487.3	533.7	574.3	620.7	585.9	522.1	487.3	469.9	458.3
52.5°	440.9	452.5	475.7	527.9	574.3	614.9	580.1	516.3	475.7	464.1	452.5
55°	394.5	411.9	452.5	516.3	568.5	614.9	568.5	510.5	452.5	423.5	411.9
57.5°	377.1	388.7	440.9	522.1	562.7	614.9	568.5	510.5	452.5	400.3	388.7
60°	359.6	382.9	440.9	504.7	556.9	620.7	574.3	504.7	440.9	377.1	377.1
62.5°	342.2	359.6	435.1	493.1	533.7	597.5	551.1	493.1	423.5	359.6	353.8
65°	295.8	324.8	382.9	411.9	458.3	516.3	469.9	429.3	371.3	319.0	313.2
67.5°	226.2	237.8	284.2	319.0	348.0	400.3	377.1	324.8	284.2	243.6	243.6
70°	156.6	168.2	203.0	220.4	249.4	278.4	261.0	220.4	191.4	168.2	162.4
72.5°	110.2	116.0	127.6	139.2	150.8	162.4	156.6	127.6	110.2	104.4	98.6
75°	87.0	98.6	104.4	98.6	92.8	87.0	87.0	75.4	63.8	58.0	58.0
77.5°	87.0	92.8	87.0	75.4	63.8	58.0	52.2	46.4	34.8	29.0	34.8
80°	75.4	75.4	75.4	63.8	58.0	52.2	46.4	40.6	34.8	29.0	29.0
82.5°	81.2	81.2	75.4	63.8	63.8	52.2	52.2	46.4	40.6	29.0	29.0
85°	0.0	0.0	0.0	11.6	29.0	52.2	52.2	46.4	40.6	34.8	34.8
87.5°	0.0	0.0	0.0	0.0	5.8	11.6	23.2	29.0	34.8	34.8	34.8
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°	14826.8	14826.8	14826.8	14826.8	14826.8	14826.8	14826.8	14826.8	14826.8	14826.8	14826.8
2.5°	12808.2	13028.6	13446.3	13863.9	14119.1	14420.8	14966.1	15256.1	15633.2	15818.8	16184.2
5°	10319.6	10841.7	11027.3	11503.0	12013.5	12523.9	13336.0	14229.4	14971.9	15482.3	16143.6
7.5°	7529.4	7651.3	8370.6	8689.6	9524.9	10453.0	11561.0	12686.3	13626.1	14461.4	14966.1
10°	5644.2	6090.8	6543.3	7152.4	7825.3	8782.4	9844.0	11085.3	12303.5	13138.8	13776.9
12.5°	4536.2	4890.1	5493.4	6148.8	6978.4	7610.6	8678.0	9907.8	11485.6	12303.5	13144.6
15°	3434.1	3886.5	4571.0	5249.7	6125.6	6792.7	7871.7	9420.5	11450.8	12576.1	13301.2
17.5°	2546.6	2854.0	3468.9	4228.8	5122.1	6061.8	7517.8	9368.3	11839.4	13179.4	13927.7
20°	1949.1	2053.5	2442.1	3120.8	4089.6	5319.3	6943.6	9594.5	12988.0	14647.0	15406.9
22.5°	1577.8	1624.2	1775.0	2244.9	3184.6	4669.6	6670.9	9751.1	14281.6	16404.7	17419.8
25°	1374.8	1363.2	1461.8	1664.8	2488.5	4060.6	6322.9	10342.8	15865.2	18469.7	19380.5
27.5°	1253.0	1253.0	1299.4	1444.4	2065.1	3666.1	6102.4	10766.3	17460.4	20285.4	20778.5
30°	1189.2	1200.8	1334.2	1380.6	1717.0	3196.2	5737.0	11195.5	18986.0	21445.6	22124.3
32.5°	1102.2	1055.7	1026.7	1142.8	1444.4	2772.8	5371.5	11375.4	20221.6	22866.8	23446.8
35°	846.9	823.7	858.5	945.5	1241.4	2413.1	4965.5	11578.4	21642.8	24514.2	24630.2
37.5°	765.7	759.9	783.1	858.5	1044.1	2099.9	4675.4	11526.2	22727.5	25877.4	25564.1
40°	707.7	707.7	725.1	788.9	933.9	1879.5	4373.8	11479.8	23777.5	27408.8	26492.3
42.5°	661.3	661.3	690.3	730.9	887.5	1734.4	4147.6	11416.0	24659.2	28348.5	27037.5
45°	597.5	614.9	661.3	701.9	899.1	1635.8	3979.3	11172.3	24960.8	28336.9	26776.5
47.5°	551.1	574.3	620.7	678.7	812.1	1606.8	3863.3	10957.7	24856.4	27640.8	25958.6
50°	498.9	527.9	591.7	690.3	690.3	1548.8	3741.5	11149.1	24781.0	27101.3	25175.5
52°	464.1	487.3	568.5	672.9	603.3	1427.0	3666.1	11520.4	25088.5	27031.7	24827.4
52.5°	458.3	475.7	551.1	661.3	574.3	1403.8	3613.9	11607.4	25187.1	26857.7	25065.3
55°	406.1	429.3	504.7	516.3	469.9	1154.4	3445.7	11804.6	24699.8	26515.5	24839.0
57.5°	382.9	394.5	446.7	423.5	406.1	870.1	2964.2	11497.2	21938.6	23551.2	23110.4
60°	353.8	365.5	417.7	330.6	342.2	609.1	2227.5	9983.2	17617.0	19624.1	20418.8
62.5°	342.2	336.4	394.5	266.8	290.0	440.9	1572.0	8115.3	13573.9	16155.2	17530.0
65°	301.6	295.8	284.2	226.2	249.4	342.2	939.7	5296.1	9565.5	12222.3	12976.4
67.5°	232.0	243.6	208.8	179.8	208.8	266.8	522.1	2372.5	5017.7	7332.2	7941.3
70°	162.4	174.0	168.2	156.6	185.6	220.4	301.6	812.1	2076.7	3851.7	4246.2
72.5°	98.6	121.8	127.6	133.4	162.4	191.4	214.6	261.0	551.1	1363.2	1693.8
75°	58.0	81.2	98.6	116.0	133.4	162.4	179.8	185.6	191.4	255.2	411.9
77.5°	40.6	58.0	87.0	110.2	133.4	162.4	191.4	203.0	191.4	179.8	191.4
80°	34.8	58.0	81.2	104.4	139.2	168.2	191.4	191.4	185.6	162.4	174.0
82.5°	34.8	58.0	87.0	110.2	133.4	162.4	185.6	191.4	174.0	162.4	168.2
85°	40.6	63.8	92.8	116.0	145.0	133.4	121.8	98.6	92.8	75.4	81.2
87.5°	40.6	58.0	58.0	63.8	69.6	69.6	69.6	63.8	52.2	46.4	46.4
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: P533125

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

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	14826.8	14826.8	14826.8	14826.8	14826.8	14826.8	14826.8	14826.8	14826.8	14826.8
2.5°	16201.6	16665.7	16648.3	16659.9	16590.3	16120.4	15894.2	15319.9	15482.3	15412.7
5°	16822.3	17280.6	17675.0	17628.6	17095.0	16456.9	15511.3	14618.0	14374.4	14014.7
7.5°	16201.6	17303.8	17669.2	17617.0	16828.1	16010.2	14502.0	13608.7	13185.2	12947.4
10°	15215.5	16491.7	16944.1	17036.9	16503.3	15261.9	13875.5	12442.7	12216.5	11804.6
12.5°	14652.8	15580.9	15859.4	16108.8	15923.2	14995.1	13399.8	12025.1	11711.8	11439.2
15°	14194.6	14745.6	14861.6	15145.9	15256.1	14757.2	13649.3	12477.5	11706.0	11677.0
17.5°	14618.0	14391.8	13968.3	14055.3	14403.4	14763.0	14293.2	13370.8	12622.5	12529.7
20°	15319.9	14322.2	13365.0	13579.7	13869.7	14971.9	15267.7	14618.0	14188.8	13950.9
22.5°	16126.2	14444.0	13173.6	13278.0	13829.1	15441.7	16845.5	16485.9	15685.4	15343.1
25°	17617.0	14780.4	13324.4	13394.0	14148.2	16097.2	18272.5	18539.4	18063.7	17994.1
27.5°	19073.0	15650.6	13655.1	13498.5	14310.6	16735.3	19136.8	20569.6	19734.3	19571.9
30°	19815.5	16358.3	14148.2	13881.3	14983.5	17124.0	19658.9	21892.2	21161.3	21085.9
32.5°	20952.5	17002.1	14531.0	14188.8	15360.5	17605.4	20633.4	23336.6	22628.9	22251.9
35°	21428.2	17704.0	15372.1	14971.9	16439.5	18278.3	21132.3	24624.4	24404.0	24038.5
37.5°	22344.7	18458.1	16364.1	16340.9	17744.6	19154.2	22031.4	26376.2	26335.6	25703.3
40°	22420.1	19281.9	17930.3	18661.2	19763.3	20679.9	22820.3	26863.5	27524.8	27095.5
42.5°	22536.1	20726.3	20639.2	21242.5	22188.1	21990.8	22849.4	26979.5	27988.9	27733.6
45°	22588.3	22170.7	23394.6	24508.4	24902.8	23707.9	22576.7	26759.1	28232.5	27594.4
47.5°	22170.7	23412.0	25622.1	27774.2	27890.2	24763.6	22460.7	26532.9	28377.5	27954.1
50°	22228.7	24189.3	27548.0	29473.9	29050.4	25697.5	22280.9	26393.6	28302.1	28017.9
52°	22089.4	24206.7	27820.6	29439.1	29143.2	25181.3	21973.4	25860.0	28232.5	28435.5
52.5°	22246.1	24102.3	27536.4	29462.3	29079.4	25436.5	21932.8	26155.8	28273.1	27861.2
55°	21706.6	22861.0	25871.6	26689.5	26631.5	23087.2	20685.7	25175.5	27211.6	27217.4
57.5°	19618.3	19815.5	20291.2	20273.8	20007.0	18150.7	17692.4	23151.0	24258.9	23655.7
60°	17286.4	14507.8	13225.8	12703.8	12407.9	12106.3	15650.6	21178.7	21283.1	21027.9
62.5°	14937.1	10058.6	8353.2	8208.1	8277.7	9379.9	15128.5	20395.6	19769.1	19218.0
65°	12054.1	7332.2	6067.6	5876.2	6554.9	7744.1	12245.5	15639.0	14676.0	14217.8
67.5°	7570.0	5348.3	4101.2	3741.5	4559.4	5330.9	8045.7	9826.6	8747.6	8115.3
70°	4489.8	2987.4	1856.3	1664.8	1873.7	2842.4	4507.2	4901.7	4054.8	3729.9
72.5°	1769.2	1096.4	516.3	440.9	458.3	997.7	1659.0	1618.4	1224.0	1090.6
75°	475.7	330.6	179.8	145.0	121.8	185.6	266.8	174.0	63.8	81.2
77.5°	220.4	197.2	156.6	121.8	92.8	69.6	34.8	11.6	11.6	5.8
80°	191.4	168.2	145.0	121.8	92.8	58.0	29.0	5.8	5.8	5.8
82.5°	179.8	156.6	133.4	110.2	87.0	58.0	29.0	5.8	0.0	0.0
85°	75.4	98.6	110.2	104.4	92.8	58.0	29.0	5.8	0.0	0.0
87.5°	40.6	34.8	29.0	23.2	17.4	11.6	11.6	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

(END OF REPORT)