

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: P530549

Luminaire Tested: **GALN-SA5D-735-U-SLL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530549  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5D-735-U-SLL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19951 lumens  
Efficiency: N/A  
Efficacy: 64.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G2

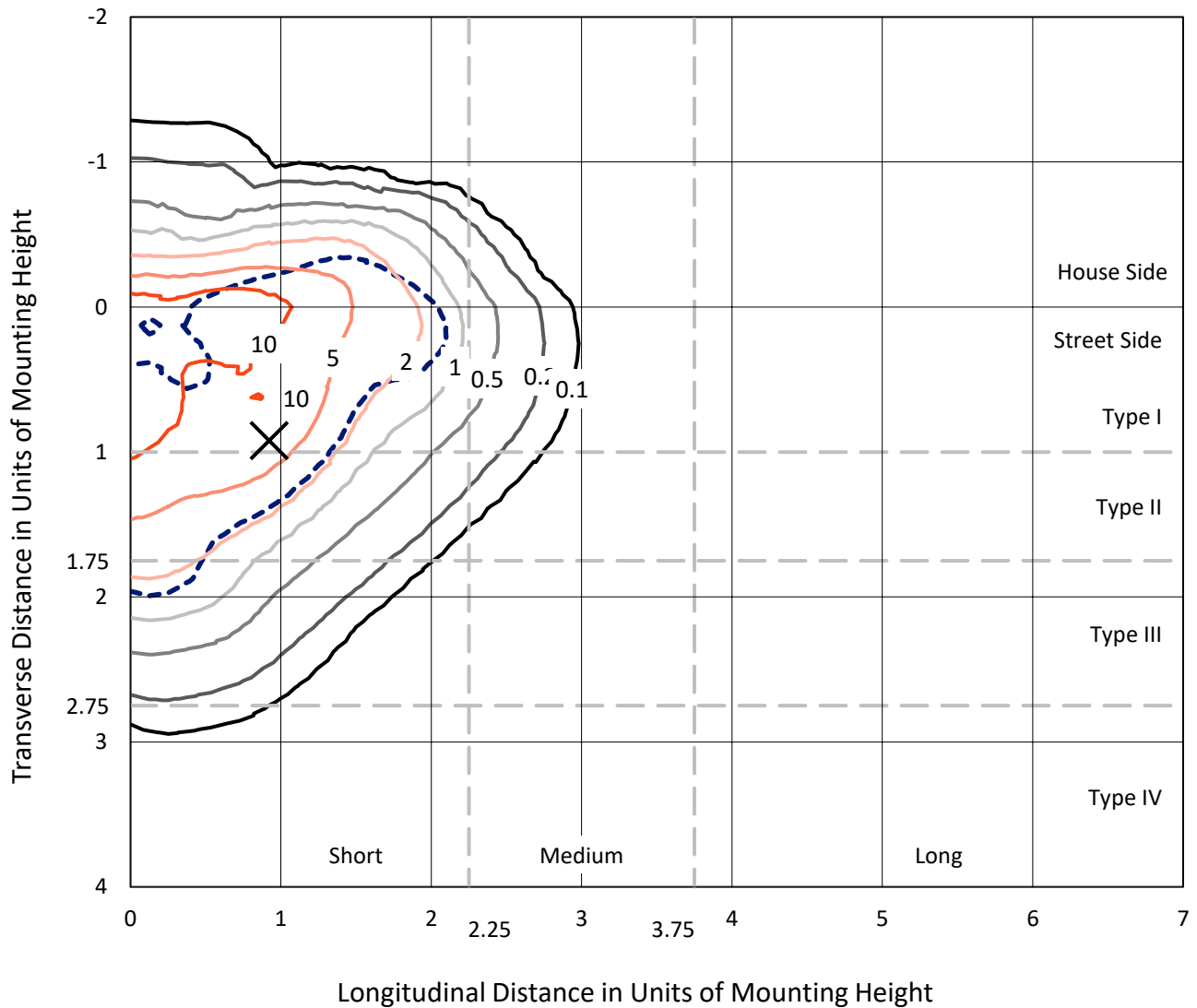
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P530549  
 CATALOG NUMBER: GALN-SA5D-735-U-SLL-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

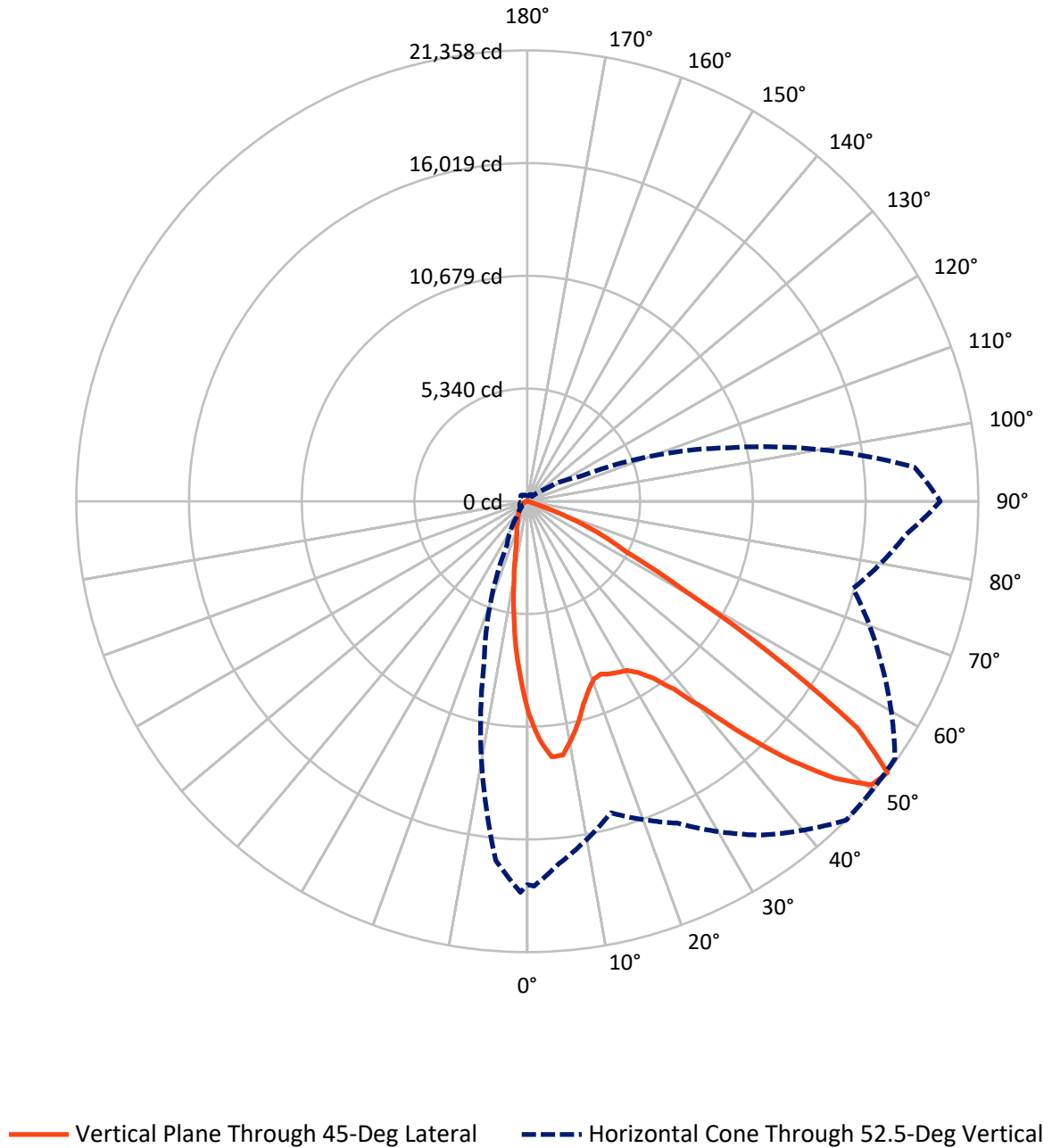
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.5 fc  
 Type III - Short - N/A

REPORT NUMBER: P530549  
CATALOG NUMBER: GALN-SA5D-735-U-SLL-GRSBK

### Luminous Intensity Polar Plot



REPORT NUMBER: P530549  
 CATALOG NUMBER: GALN-SA5D-735-U-SLL-GRSBK

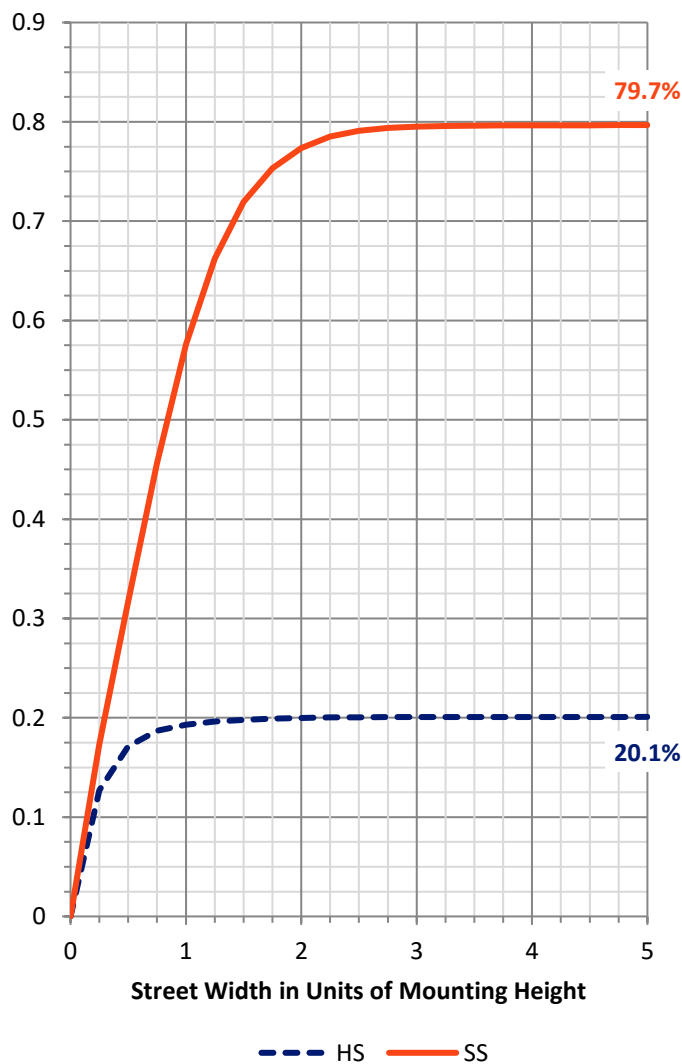
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4049.1	0.0	4049.1
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	15901.9	0.0	15901.9
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	19951.0	0.0	19951.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	737.8	3.7
10°-20°	1455.6	7.3
20°-30°	2215.1	11.1
30°-40°	3310.7	16.6
40°-50°	4714.8	23.6
50°-60°	5068.3	25.4
60°-70°	2245.9	11.3
70°-80°	181.7	0.9
80°-90°	21.2	0.1
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°	19951.0	100.0
0°-180°	19951.0	100.0

**Coefficient of Utilization**



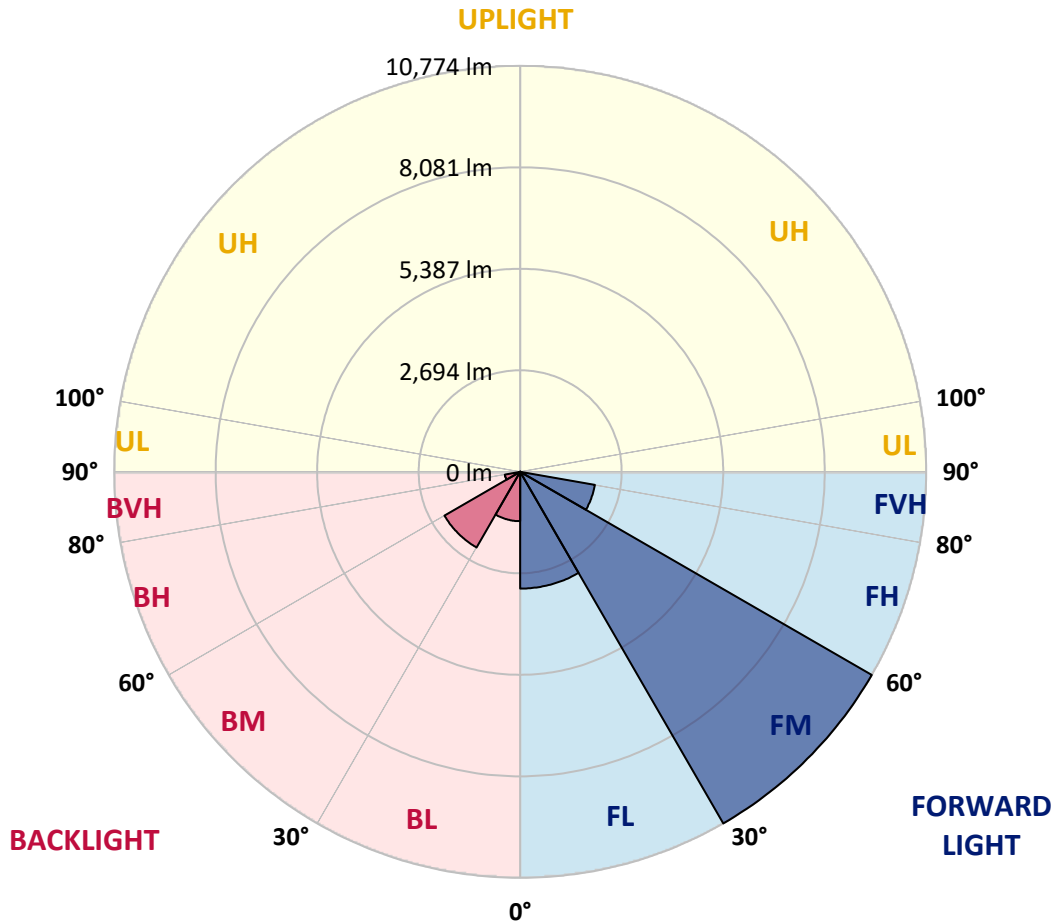
REPORT NUMBER: P530549  
 CATALOG NUMBER: GALN-SA5D-735-U-SLL-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3098.8	15.5			
FM (30°-60°)	10774.2	54.0			
FH (60°-80°)	2013.3	10.1			G2/5000
FVH (80°-90°)	15.7	0.1			G1/100
BL (0°-30°)	1309.6	6.6	B3/2500		
BM (30°-60°)	2319.7	11.6	B2/2500		
BH (60°-80°)	414.3	2.1	B1/500		G1/500
BVH (80°-90°)	5.5	0.0			G0/10
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





REPORT NUMBER: P530549

CATALOG NUMBER: GALN-SA5D-735-U-SLL-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10116.1	10116.1	10116.1	10116.1	10116.1	10116.1	10116.1	10116.1	10116.1	10116.1	10116.1
2.5°	10704.7	10736.1	10908.7	11124.6	11238.3	11497.3	11316.8	11363.9	11265.8	10920.5	10649.7
5°	10379.0	10375.1	10594.8	11128.5	11634.7	12148.7	12164.4	11889.7	11407.1	10877.3	10120.0
7.5°	9398.0	9551.0	9778.6	10630.1	11568.0	11952.5	12136.9	11815.2	11073.5	10316.2	9496.1
10°	8656.4	8734.8	9119.4	10147.5	10834.2	11348.2	11462.0	11277.6	10708.6	9762.9	8844.7
12.5°	8228.6	8267.9	8719.1	9582.4	10308.4	10689.0	10743.9	10830.3	10422.2	9535.3	8432.7
15°	8232.6	8264.0	8872.2	9594.2	9880.6	9778.6	9959.1	9955.2	10131.8	9492.2	8778.0
17.5°	8825.1	8860.4	9409.8	9766.8	9641.3	9401.9	9390.1	9570.6	9943.4	10029.8	9299.9
20°	9845.3	9927.7	10331.9	10312.3	9606.0	9123.3	8989.9	9127.2	9994.4	10484.9	10351.5
22.5°	11218.7	11332.5	11615.1	11073.5	9766.8	8935.0	8891.8	9158.6	10331.9	11501.3	11544.4
25°	12811.9	13004.2	13141.5	12446.9	10339.8	9260.7	9056.6	9515.7	10787.1	12603.9	13063.0
27.5°	13867.4	14067.6	14036.2	13043.4	10724.3	9347.0	9174.3	9602.0	11183.4	12866.8	13855.7
30°	14691.5	14813.1	15032.9	13365.2	11108.9	9590.3	9296.0	9967.0	11312.9	13322.0	14813.1
32.5°	15652.9	15735.3	15751.0	13934.1	11701.4	9896.3	9672.7	10422.2	11885.8	13757.6	15660.7
35°	16622.1	16743.7	16488.7	14636.5	12066.3	10465.3	10300.5	11210.9	12344.9	14208.8	16594.6
37.5°	17673.7	17736.5	17147.9	14926.9	12588.2	11391.4	11301.1	12062.4	13141.5	15025.0	17630.6
40°	18556.6	18615.5	17850.3	15284.0	13137.6	12686.3	12917.8	13686.9	14224.5	15554.8	18148.5
42.5°	19047.1	19184.5	18085.7	15087.8	14240.2	14153.9	15182.0	15452.7	15480.2	15703.9	18611.6
45°	19180.5	19117.8	17697.3	15248.7	15205.5	16567.1	17501.1	17858.1	16728.0	15978.5	18729.3
47.5°	18564.5	18646.9	17124.4	15107.4	16473.0	18395.7	19604.3	20267.5	17658.0	15739.2	18438.9
50°	18066.1	17960.2	16939.9	15005.4	16814.4	19259.0	21122.9	21272.0	18513.5	16033.5	18121.1
52.5°	18164.2	18230.9	17234.2	15276.2	16822.2	19310.0	21358.4	21256.3	18540.9	15966.8	18007.3
55°	18372.2	18077.9	17108.7	14679.7	15696.0	17885.6	18956.9	18799.9	17112.6	15256.5	17728.7
57.5°	15853.0	16308.2	15731.3	13106.2	12882.5	13475.0	13455.4	13938.1	12764.8	13129.7	16139.4
60°	12866.8	12945.3	13161.1	11210.9	8915.3	8711.3	8428.8	8122.7	8589.6	11226.6	14679.7
62.5°	11316.8	11222.7	11991.8	10198.5	6294.1	5269.9	5222.9	5411.2	6627.6	10708.6	13769.3
65°	8224.7	8342.4	8899.6	7914.7	4724.5	4022.1	3951.5	4508.7	5364.1	8581.8	10508.5
67.5°	5022.7	5250.3	5301.3	4881.5	3205.9	2546.7	2444.7	2950.9	3873.0	5552.5	6160.7
70°	2319.1	2593.8	2852.8	2664.4	1856.1	1047.7	988.8	1240.0	1954.2	3194.1	3268.7
72.5°	702.4	706.3	988.8	1032.0	600.4	235.4	208.0	274.7	663.2	1055.6	1110.5
75°	51.0	54.9	133.4	153.0	113.8	58.9	62.8	74.6	141.3	235.4	176.6
77.5°	3.9	3.9	3.9	19.6	35.3	39.2	51.0	58.9	74.6	86.3	78.5
80°	3.9	0.0	3.9	15.7	27.5	39.2	47.1	54.9	58.9	66.7	58.9
82.5°	0.0	0.0	0.0	11.8	27.5	39.2	43.2	58.9	66.7	78.5	66.7
85°	0.0	0.0	0.0	11.8	27.5	43.2	39.2	19.6	0.0	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



REPORT NUMBER: P530549

CATALOG NUMBER: GALN-SA5D-735-U-SLL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10116.1	10116.1	10116.1	10116.1	10116.1	10116.1	10116.1	10116.1	10116.1	10116.1	10116.1
2.5°	10696.8	10543.8	10194.6	10018.0	9602.0	9543.2	9135.1	9068.4	8931.0	8856.5	8676.0
5°	9786.5	9602.0	9033.1	8554.3	7997.1	7608.6	7310.4	7039.7	6882.7	6737.5	6804.2
7.5°	9044.8	8507.2	7875.5	7075.0	6431.4	6015.5	5560.3	5187.5	4967.8	4818.7	4854.0
10°	8267.9	7918.6	7039.7	6141.1	5364.1	5069.8	4712.7	4426.3	4116.3	3849.4	3723.9
12.5°	8024.6	7506.6	6404.0	5489.7	4901.1	4614.6	4206.5	3876.9	3480.6	3154.9	3041.1
15°	8067.8	7569.4	6231.3	5254.2	4559.7	4065.3	3578.7	3170.6	2735.0	2507.4	2389.7
17.5°	8770.2	7906.9	6345.1	5007.0	4084.9	3398.2	2797.8	2279.8	1954.2	1718.7	1667.7
20°	9633.4	8636.7	6588.4	4826.5	3696.4	2703.6	2044.4	1597.1	1326.3	1287.1	1275.3
22.5°	10897.0	9829.6	7110.3	4704.9	3221.6	2107.2	1400.9	1161.5	1086.9	1079.1	1083.0
25°	12662.8	11324.7	7679.3	4602.9	2864.5	1624.5	1145.8	984.9	961.4	949.6	969.2
27.5°	13427.9	12227.2	7981.4	4383.1	2538.8	1463.7	1130.1	977.1	910.4	890.7	902.5
30°	14373.6	12827.6	8456.2	4006.4	2060.1	1204.7	1055.6	1063.4	1032.0	933.9	902.5
32.5°	15629.3	13577.1	8695.6	3739.6	1840.4	996.7	773.0	710.2	792.6	808.3	835.8
35°	16433.7	14338.3	8817.2	3582.6	1726.6	851.5	655.3	596.4	576.8	580.8	596.4
37.5°	17928.8	15366.4	8970.3	3417.8	1640.2	741.6	592.5	537.6	510.1	510.1	525.8
40°	18823.5	16182.6	9178.2	3327.6	1553.9	674.9	537.6	490.5	467.0	467.0	474.8
42.5°	19047.1	16586.8	9107.6	3296.2	1455.8	659.2	490.5	455.2	427.7	423.8	419.9
45°	19447.4	17202.8	9119.4	3260.8	1353.8	600.4	463.0	423.8	384.6	380.6	376.7
47.5°	19886.9	17646.2	9142.9	3123.5	1255.7	502.3	482.7	392.4	345.3	337.5	337.5
50°	19510.2	17999.4	9347.0	2986.2	1130.1	408.1	474.8	368.9	306.1	294.3	298.2
52.5°	19557.2	18415.4	9778.6	2793.9	973.2	325.7	384.6	349.2	278.6	259.0	262.9
55°	18803.8	17975.9	9837.5	2589.8	761.3	251.1	294.3	306.1	235.4	227.6	227.6
57.5°	16186.5	15221.2	8679.9	2099.3	502.3	208.0	211.9	266.8	204.0	196.2	200.1
60°	13851.7	12219.4	6984.7	1385.2	313.9	164.8	153.0	270.8	180.5	176.6	188.4
62.5°	12627.4	10041.5	5297.4	859.4	215.8	125.6	105.9	219.7	157.0	157.0	172.7
65°	9123.3	6745.4	3080.3	451.3	153.0	98.1	78.5	125.6	129.5	133.4	141.3
67.5°	5650.6	3406.0	1298.8	219.7	102.0	66.7	51.0	78.5	86.3	86.3	94.2
70°	2790.0	1357.7	431.6	125.6	78.5	54.9	35.3	43.2	43.2	39.2	43.2
72.5°	863.3	408.1	109.9	78.5	54.9	35.3	19.6	15.7	7.8	0.0	3.9
75°	98.1	78.5	70.6	54.9	35.3	15.7	3.9	0.0	0.0	0.0	0.0
77.5°	58.9	66.7	66.7	54.9	35.3	11.8	0.0	0.0	0.0	0.0	0.0
80°	47.1	51.0	54.9	51.0	31.4	15.7	0.0	0.0	0.0	0.0	0.0
82.5°	58.9	66.7	74.6	66.7	43.2	19.6	7.8	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	11.8	3.9	0.0	0.0	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





REPORT NUMBER: P530549

CATALOG NUMBER: GALN-SA5D-735-U-SLL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	10116.1	10116.1	10116.1	10116.1	10116.1	10116.1	10116.1	10116.1	10116.1	10116.1	10116.1
2.5°	8601.4	8515.1	8636.7	8456.2	8452.3	8456.2	8405.2	8358.1	8432.7	8632.8	8652.4
5°	6564.9	6749.3	6808.1	7000.4	6894.5	6737.5	6768.9	6663.0	6921.9	7035.7	6945.5
7.5°	4779.4	4767.7	5164.0	5187.5	5238.5	5242.5	5234.6	5026.7	4814.8	4861.8	5003.1
10°	3708.2	3508.1	3700.3	3680.7	3806.3	3771.0	3822.0	3598.3	3672.9	3672.9	3763.1
12.5°	3021.5	2809.6	2774.3	2723.3	2774.3	2793.9	2813.5	2770.3	2895.9	2954.8	3017.6
15°	2307.3	2189.6	2158.2	2060.1	2075.8	2130.7	2177.8	2197.4	2158.2	2248.5	2256.3
17.5°	1675.6	1671.6	1691.2	1687.3	1671.6	1659.9	1655.9	1604.9	1589.2	1597.1	1628.5
20°	1271.4	1302.8	1369.5	1436.2	1471.5	1428.3	1369.5	1283.1	1247.8	1255.7	1259.6
22.5°	1086.9	1134.0	1224.3	1298.8	1334.2	1255.7	1149.7	1075.2	1059.5	1055.6	1051.6
25°	984.9	1039.9	1106.6	1130.1	1126.2	1079.1	1000.6	969.2	961.4	953.5	918.2
27.5°	930.0	949.6	961.4	988.8	1000.6	969.2	949.6	902.5	894.7	894.7	871.1
30°	898.6	886.8	902.5	882.9	898.6	875.1	879.0	879.0	859.4	867.2	867.2
32.5°	835.8	839.7	839.7	800.5	812.3	784.8	812.3	835.8	839.7	843.7	875.1
35°	612.1	682.8	718.1	718.1	729.9	710.2	706.3	678.9	643.5	608.2	592.5
37.5°	537.6	565.1	612.1	639.6	659.2	643.5	608.2	565.1	545.4	529.7	514.0
40°	478.7	502.3	533.7	565.1	604.3	584.7	529.7	510.1	486.6	486.6	470.9
42.5°	431.6	443.4	463.0	510.1	553.3	514.0	474.8	459.1	447.3	443.4	439.5
45°	388.5	392.4	412.0	451.3	502.3	463.0	423.8	404.2	408.1	412.0	408.1
47.5°	349.2	357.1	368.9	415.9	447.3	427.7	384.6	372.8	372.8	372.8	376.7
50°	302.1	321.8	345.3	384.6	408.1	396.3	361.0	345.3	337.5	337.5	341.4
52.5°	270.8	286.5	317.8	364.9	396.3	376.7	341.4	317.8	302.1	298.2	306.1
55°	235.4	262.9	313.9	349.2	392.4	372.8	333.5	306.1	278.6	274.7	274.7
57.5°	211.9	255.1	302.1	345.3	380.6	364.9	333.5	298.2	262.9	259.0	259.0
60°	200.1	247.2	294.3	333.5	380.6	357.1	329.6	290.4	251.1	251.1	247.2
62.5°	188.4	231.5	278.6	317.8	364.9	345.3	317.8	278.6	239.4	239.4	231.5
65°	157.0	200.1	231.5	266.8	317.8	298.2	270.8	243.3	211.9	204.0	208.0
67.5°	109.9	137.3	168.7	204.0	235.4	227.6	215.8	196.2	168.7	164.8	160.9
70°	54.9	74.6	102.0	137.3	164.8	157.0	149.1	133.4	117.7	113.8	113.8
72.5°	7.8	23.5	43.2	62.8	86.3	90.3	86.3	82.4	78.5	74.6	78.5
75°	0.0	0.0	0.0	15.7	35.3	43.2	51.0	58.9	58.9	51.0	62.8
77.5°	0.0	0.0	0.0	0.0	3.9	19.6	39.2	51.0	62.8	54.9	74.6
80°	0.0	0.0	0.0	0.0	3.9	23.5	39.2	54.9	62.8	54.9	78.5
82.5°	0.0	0.0	0.0	0.0	3.9	27.5	39.2	51.0	58.9	54.9	70.6
85°	0.0	0.0	0.0	0.0	11.8	23.5	15.7	7.8	3.9	3.9	11.8
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



REPORT NUMBER: P530549

CATALOG NUMBER: GALN-SA5D-735-U-SLL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10116.1	10116.1	10116.1	10116.1	10116.1	10116.1	10116.1	10116.1	10116.1	10116.1
2.5°	8762.3	9040.9	9339.1	9452.9	9806.1	10072.9	10253.4	10641.9	10700.8	10704.7
5°	7039.7	7180.9	7691.0	7930.4	8456.2	8864.3	9299.9	9927.7	10347.6	10379.0
7.5°	5003.1	5395.5	5611.3	6235.2	6882.7	7522.3	8169.8	8899.6	9386.2	9398.0
10°	4026.0	4281.1	4665.6	5132.6	5678.0	6329.4	7192.7	8040.3	8534.7	8656.4
12.5°	3241.2	3688.6	4128.1	4610.7	5026.7	5517.2	6447.1	7577.3	7985.3	8228.6
15°	2495.7	2903.8	3421.7	3986.8	4457.7	5113.0	6172.5	7463.5	8150.2	8232.6
17.5°	1840.4	2205.3	2684.0	3217.7	3924.0	4854.0	6219.5	8040.3	8687.7	8825.1
20°	1322.4	1534.3	1911.0	2531.0	3429.6	4551.8	6266.6	8625.0	9609.9	9845.3
22.5°	1047.7	1134.0	1381.2	1930.6	2876.3	4234.0	6600.2	9743.3	10877.3	11218.7
25°	910.4	957.5	1075.2	1522.5	2527.1	4202.6	7133.8	11085.3	12564.7	12811.9
27.5°	879.0	886.8	988.8	1396.9	2338.7	3994.6	7337.9	12038.8	13616.3	13867.4
30°	926.1	1051.6	1059.5	1181.1	1989.5	3582.6	7443.8	12961.0	14507.0	14691.5
32.5°	800.5	761.3	788.7	914.3	1750.1	3343.3	7644.0	13765.4	15523.4	15652.9
35°	557.2	584.7	647.5	792.6	1530.4	3092.1	7695.0	14652.2	16488.7	16622.1
37.5°	514.0	529.7	580.8	674.9	1345.9	2950.9	7624.3	15299.7	17489.3	17673.7
40°	478.7	498.3	525.8	612.1	1208.6	2793.9	7526.2	15884.4	18101.4	18556.6
42.5°	451.3	467.0	490.5	584.7	1090.9	2636.9	7388.9	16708.4	18650.8	19047.1
45°	419.9	443.4	470.9	569.0	1024.2	2531.0	7286.9	16657.4	18968.6	19180.5
47.5°	388.5	427.7	459.1	529.7	1004.5	2480.0	7330.0	16465.1	18709.7	18564.5
50°	357.1	408.1	463.0	439.5	957.5	2377.9	7381.1	16728.0	18093.6	18066.1
52.5°	329.6	388.5	431.6	361.0	851.5	2279.8	7875.5	17073.3	18529.2	18164.2
55°	290.4	349.2	345.3	290.4	690.6	2205.3	8264.0	17081.2	18234.9	18372.2
57.5°	262.9	310.0	270.8	243.3	510.1	1844.3	7632.2	14322.6	15609.7	15853.0
60°	243.3	302.1	204.0	192.3	333.5	1330.2	6663.0	11093.2	12407.7	12866.8
62.5°	223.7	286.5	160.9	157.0	231.5	945.7	5477.9	9284.2	10692.9	11316.8
65°	196.2	204.0	129.5	121.6	164.8	510.1	3335.4	6392.2	7993.2	8224.7
67.5°	160.9	157.0	105.9	98.1	109.9	247.2	1471.5	3202.0	4634.2	5022.7
70°	129.5	129.5	90.3	78.5	78.5	113.8	384.6	1275.3	2095.4	2319.1
72.5°	94.2	98.1	70.6	62.8	58.9	54.9	62.8	255.1	549.4	702.4
75°	82.4	86.3	70.6	54.9	43.2	35.3	27.5	23.5	31.4	51.0
77.5°	90.3	90.3	74.6	51.0	39.2	27.5	15.7	7.8	7.8	3.9
80°	113.8	117.7	98.1	66.7	47.1	31.4	19.6	7.8	3.9	3.9
82.5°	121.6	133.4	109.9	82.4	58.9	35.3	19.6	3.9	0.0	0.0
85°	31.4	51.0	86.3	74.6	58.9	35.3	19.6	3.9	0.0	0.0
87.5°	0.0	3.9	11.8	11.8	15.7	15.7	11.8	3.9	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)