

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: P529613

Luminaire Tested: **GALN-SA4D-735-U-SLL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529613  
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-SA4D-735-U-SLL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 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: 15760 lumens  
Efficiency: N/A  
Efficacy: 64.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G1

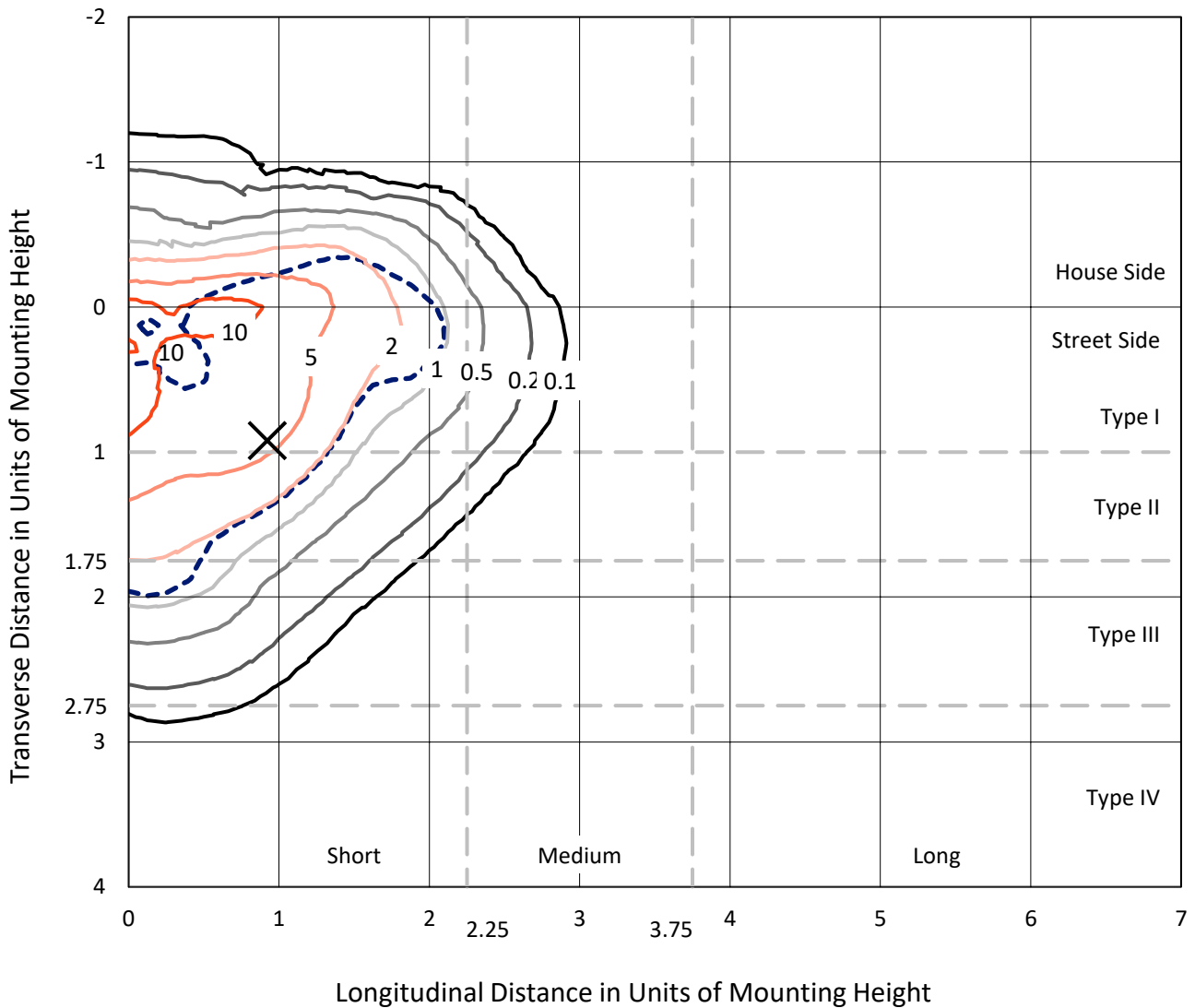
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

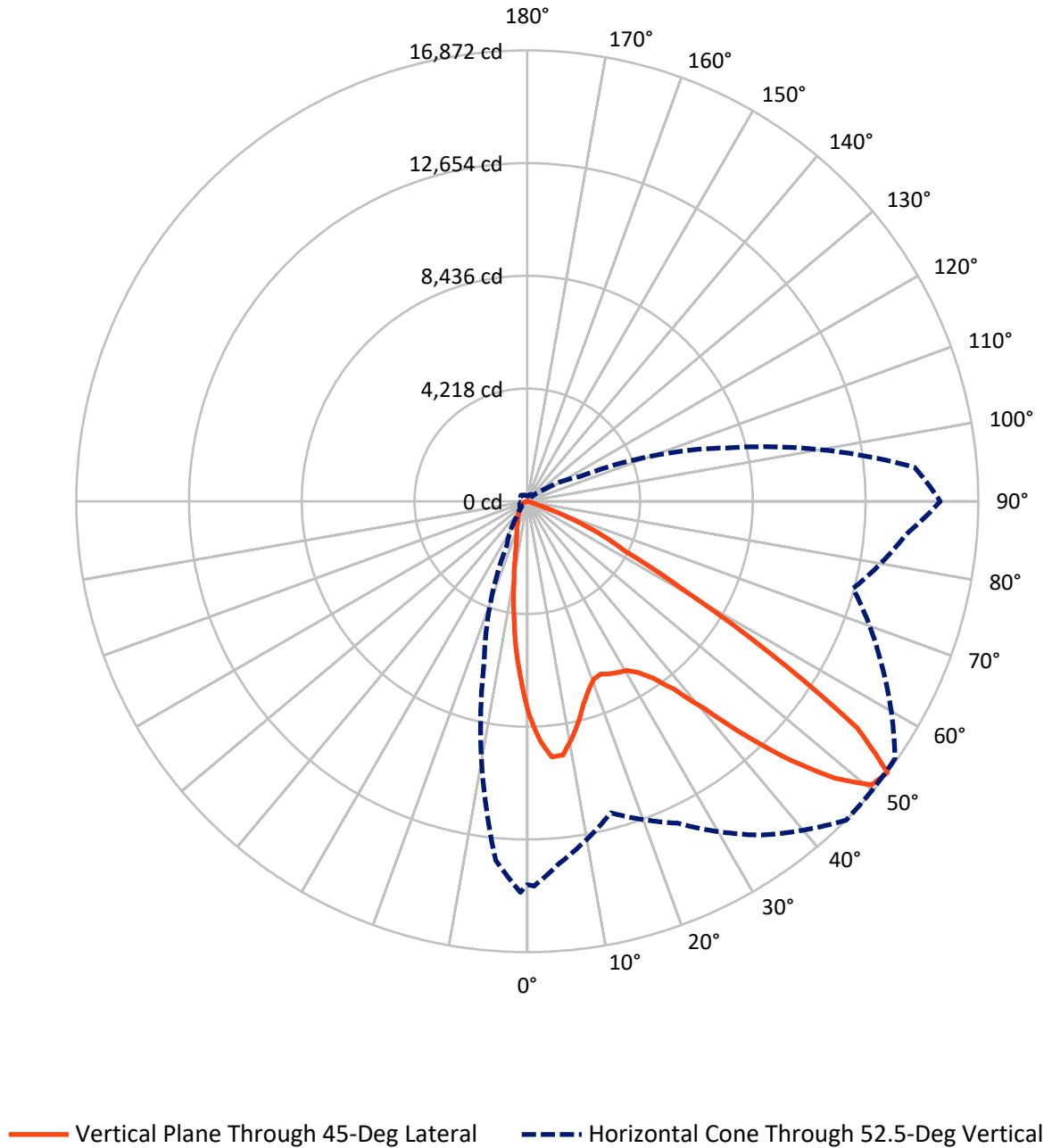
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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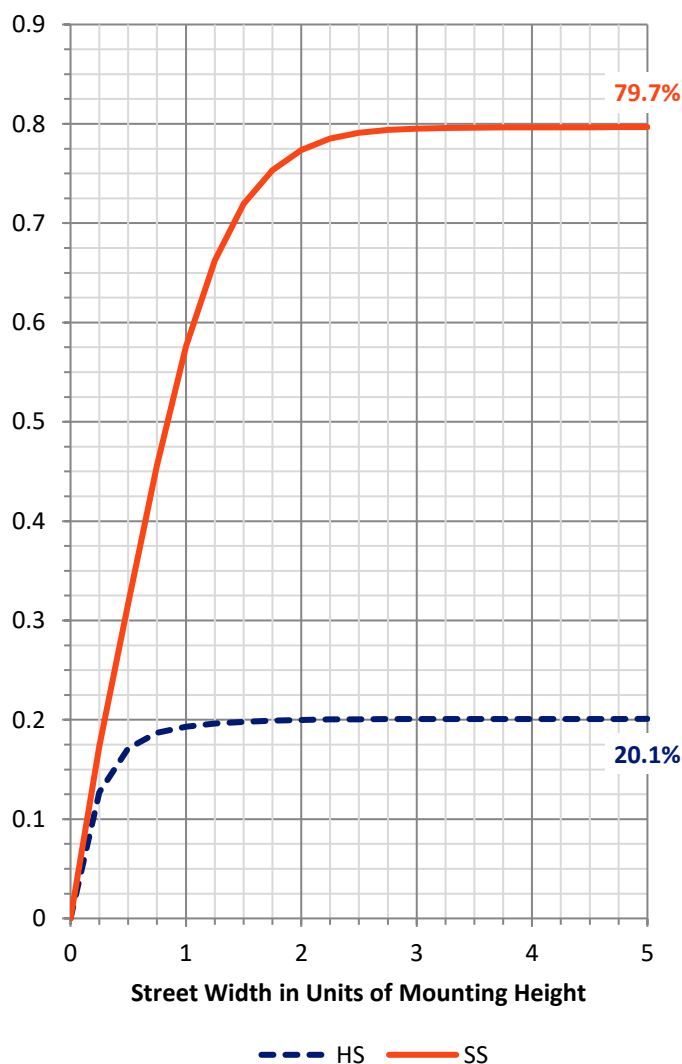
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3198.5	0.0	3198.5
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	12561.5	0.0	12561.5
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	15760.0	0.0	15760.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	582.8	3.7
10°-20°	1149.8	7.3
20°-30°	1749.8	11.1
30°-40°	2615.3	16.6
40°-50°	3724.4	23.6
50°-60°	4003.6	25.4
60°-70°	1774.1	11.3
70°-80°	143.5	0.9
80°-90°	16.7	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°	15760.0	100.0
0°-180°	15760.0	100.0

**Coefficient of Utilization**



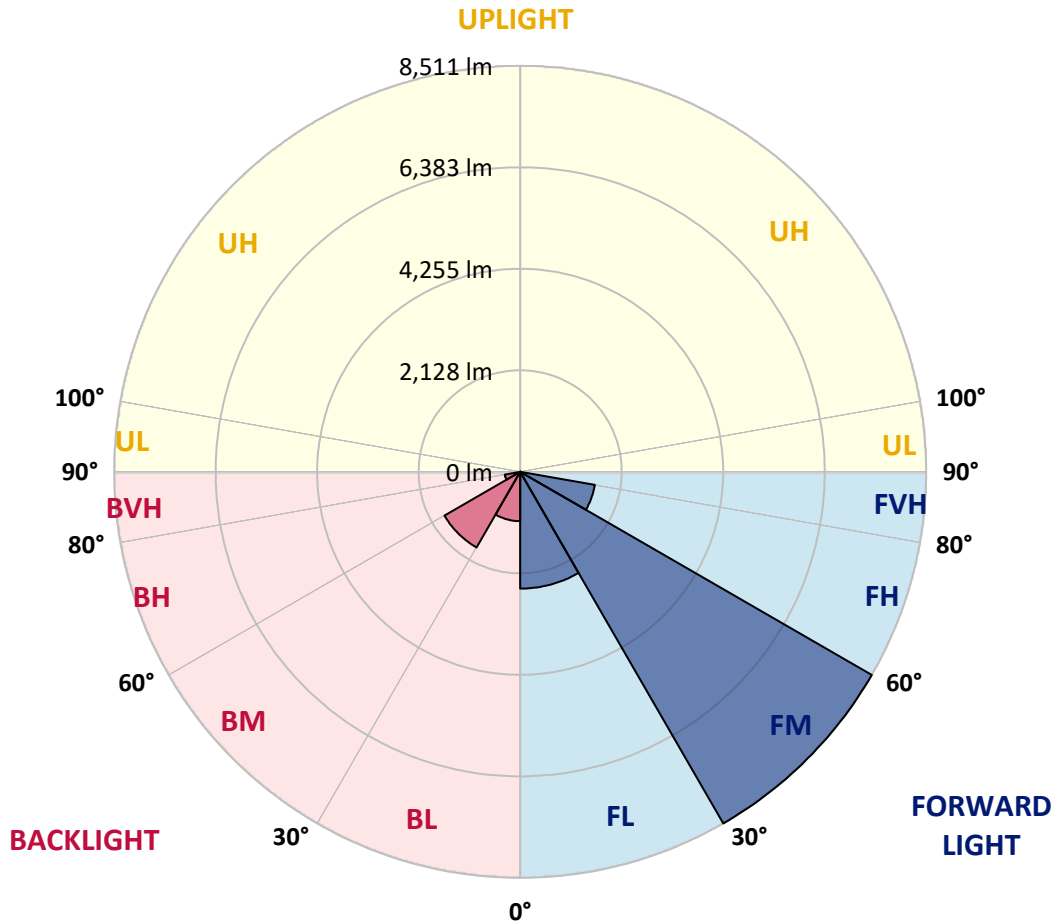
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2447.8	15.5			
FM (30°-60°)	8510.9	54.0			
FH (60°-80°)	1590.4	10.1			G1/1800
FVH (80°-90°)	12.4	0.1			G1/100
BL (0°-30°)	1034.5	6.6	B3/2500		
BM (30°-60°)	1832.4	11.6	B2/2500		
BH (60°-80°)	327.3	2.1	B1/500		G1/500
BVH (80°-90°)	4.3	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-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7991.1	7991.1	7991.1	7991.1	7991.1	7991.1	7991.1	7991.1	7991.1	7991.1	7991.1
2.5°	8456.0	8480.8	8617.2	8787.7	8877.6	9082.2	8939.6	8976.8	8899.3	8626.5	8412.6
5°	8198.7	8195.6	8369.2	8790.8	9190.6	9596.7	9609.1	9392.1	9010.9	8592.4	7994.2
7.5°	7423.8	7544.7	7724.5	8397.1	9137.9	9441.7	9587.4	9333.2	8747.4	8149.1	7501.3
10°	6838.0	6900.0	7203.7	8015.9	8558.3	8964.4	9054.3	8908.6	8459.1	7712.1	6986.7
12.5°	6500.1	6531.1	6887.6	7569.5	8142.9	8443.6	8487.0	8555.2	8232.8	7532.3	6661.3
15°	6503.2	6528.0	7008.4	7578.8	7805.1	7724.5	7867.1	7864.0	8003.5	7498.2	6934.1
17.5°	6971.2	6999.1	7433.1	7715.2	7616.0	7426.9	7417.6	7560.2	7854.7	7922.9	7346.3
20°	7777.2	7842.3	8161.5	8146.0	7588.1	7206.8	7101.4	7209.9	7895.0	8282.4	8177.0
22.5°	8862.1	8952.0	9175.1	8747.4	7715.2	7058.0	7023.9	7234.7	8161.5	9085.3	9119.3
25°	10120.6	10272.4	10380.9	9832.3	8167.7	7315.3	7154.1	7516.8	8521.1	9956.3	10318.9
27.5°	10954.4	11112.5	11087.7	10303.4	8471.5	7383.5	7247.1	7585.0	8834.2	10163.9	10945.1
30°	11605.3	11701.4	11875.0	10557.6	8775.3	7575.7	7343.2	7873.3	8936.5	10523.5	11701.4
32.5°	12364.7	12429.8	12442.2	11007.1	9243.3	7817.5	7640.8	8232.8	9389.0	10867.6	12370.9
35°	13130.4	13226.5	13025.0	11561.9	9531.6	8266.9	8136.7	8855.9	9751.7	11224.1	13108.7
37.5°	13961.1	14010.7	13545.7	11791.3	9943.9	8998.5	8927.2	9528.5	10380.9	11868.8	13927.0
40°	14658.5	14705.0	14100.6	12073.4	10377.8	10021.4	10204.2	10811.8	11236.4	12287.3	14336.2
42.5°	15046.0	15154.5	14286.6	11918.4	11248.8	11180.7	11992.8	12206.7	12228.4	12405.0	14701.9
45°	15151.4	15101.8	13979.7	12045.5	12011.4	13087.0	13824.7	14106.8	13214.1	12622.0	14794.9
47.5°	14664.7	14729.8	13527.1	11933.9	13012.6	14531.4	15486.2	16010.0	13948.7	12432.9	14565.5
50°	14271.1	14187.4	13381.4	11853.3	13282.3	15213.4	16685.7	16803.5	14624.4	12665.4	14314.5
52.5°	14348.6	14401.3	13613.9	12067.2	13288.5	15253.7	16871.7	16791.1	14646.1	12612.7	14224.6
55°	14512.8	14280.4	13514.7	11596.0	12398.8	14128.5	14974.7	14850.7	13517.8	12051.7	14004.5
57.5°	12522.8	12882.4	12426.7	10353.0	10176.3	10644.4	10628.9	11010.2	10083.4	10371.6	12749.1
60°	10163.9	10225.9	10396.4	8855.9	7042.5	6881.4	6658.2	6416.4	6785.3	8868.3	11596.0
62.5°	8939.6	8865.2	9472.7	8056.1	4971.9	4162.9	4125.7	4274.5	5235.4	8459.1	10876.9
65°	6497.0	6590.0	7030.1	6252.1	3732.1	3177.2	3121.4	3561.6	4237.3	6779.1	8301.0
67.5°	3967.6	4147.4	4187.7	3856.0	2532.5	2011.7	1931.1	2331.0	3059.4	4386.1	4866.5
70°	1831.9	2048.9	2253.5	2104.7	1466.2	827.6	781.1	979.5	1543.7	2523.2	2582.1
72.5°	554.8	557.9	781.1	815.2	474.3	186.0	164.3	217.0	523.9	833.8	877.2
75°	40.3	43.4	105.4	120.9	89.9	46.5	49.6	58.9	111.6	186.0	139.5
77.5°	3.1	3.1	3.1	15.5	27.9	31.0	40.3	46.5	58.9	68.2	62.0
80°	3.1	0.0	3.1	12.4	21.7	31.0	37.2	43.4	46.5	52.7	46.5
82.5°	0.0	0.0	0.0	9.3	21.7	31.0	34.1	46.5	52.7	62.0	52.7
85°	0.0	0.0	0.0	9.3	21.7	34.1	31.0	15.5	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7991.1	7991.1	7991.1	7991.1	7991.1	7991.1	7991.1	7991.1	7991.1	7991.1	7991.1
2.5°	8449.8	8328.9	8053.0	7913.6	7585.0	7538.5	7216.1	7163.4	7054.9	6996.0	6853.5
5°	7730.7	7585.0	7135.5	6757.4	6317.2	6010.3	5774.8	5560.9	5436.9	5322.2	5374.9
7.5°	7144.8	6720.2	6221.1	5588.8	5080.4	4751.9	4392.3	4097.8	3924.2	3806.4	3834.3
10°	6531.1	6255.2	5560.9	4851.0	4237.3	4004.8	3722.8	3496.5	3251.6	3040.8	2941.6
12.5°	6338.9	5929.7	5058.7	4336.5	3871.5	3645.3	3322.9	3062.5	2749.4	2492.2	2402.3
15°	6373.0	5979.3	4922.3	4150.5	3601.9	3211.3	2826.9	2504.6	2160.5	1980.7	1887.7
17.5°	6927.9	6245.9	5012.2	3955.2	3226.8	2684.3	2210.1	1800.9	1543.7	1357.7	1317.4
20°	7609.8	6822.5	5204.4	3812.6	2919.9	2135.7	1614.9	1261.6	1047.7	1016.7	1007.4
22.5°	8607.9	7764.8	5616.7	3716.6	2544.9	1664.5	1106.6	917.5	858.6	852.4	855.5
25°	10002.8	8945.8	6066.1	3636.0	2262.8	1283.3	905.1	778.0	759.4	750.1	765.6
27.5°	10607.2	9658.7	6304.8	3462.4	2005.5	1156.2	892.7	771.8	719.1	703.6	712.9
30°	11354.2	10133.0	6679.9	3164.8	1627.3	951.6	833.8	840.0	815.2	737.7	712.9
32.5°	12346.1	10725.0	6869.0	2954.0	1453.8	787.3	610.6	561.0	626.1	638.5	660.2
35°	12981.6	11326.3	6965.0	2830.0	1363.9	672.6	517.7	471.2	455.7	458.8	471.2
37.5°	14162.6	12138.5	7085.9	2699.8	1295.7	585.8	468.1	424.7	403.0	403.0	415.4
40°	14869.3	12783.2	7250.2	2628.6	1227.5	533.2	424.7	387.5	368.9	368.9	375.1
42.5°	15046.0	13102.5	7194.4	2603.8	1150.0	520.8	387.5	359.6	337.9	334.8	331.7
45°	15362.2	13589.1	7203.7	2575.9	1069.4	474.3	365.8	334.8	303.8	300.7	297.6
47.5°	15709.3	13939.4	7222.3	2467.4	991.9	396.8	381.3	310.0	272.8	266.6	266.6
50°	15411.8	14218.4	7383.5	2358.9	892.7	322.4	375.1	291.4	241.8	232.5	235.6
52.5°	15449.0	14546.9	7724.5	2207.0	768.7	257.3	303.8	275.9	220.1	204.6	207.7
55°	14853.8	14199.8	7771.0	2045.8	601.3	198.4	232.5	241.8	186.0	179.8	179.8
57.5°	12786.3	12023.8	6856.6	1658.3	396.8	164.3	167.4	210.8	161.2	155.0	158.1
60°	10942.0	9652.5	5517.5	1094.2	248.0	130.2	120.9	213.9	142.6	139.5	148.8
62.5°	9974.9	7932.2	4184.6	678.8	170.5	99.2	83.7	173.6	124.0	124.0	136.4
65°	7206.8	5328.4	2433.3	356.5	120.9	77.5	62.0	99.2	102.3	105.4	111.6
67.5°	4463.6	2690.5	1026.0	173.6	80.6	52.7	40.3	62.0	68.2	68.2	74.4
70°	2203.9	1072.5	341.0	99.2	62.0	43.4	27.9	34.1	34.1	31.0	34.1
72.5°	681.9	322.4	86.8	62.0	43.4	27.9	15.5	12.4	6.2	0.0	3.1
75°	77.5	62.0	55.8	43.4	27.9	12.4	3.1	0.0	0.0	0.0	0.0
77.5°	46.5	52.7	52.7	43.4	27.9	9.3	0.0	0.0	0.0	0.0	0.0
80°	37.2	40.3	43.4	40.3	24.8	12.4	0.0	0.0	0.0	0.0	0.0
82.5°	46.5	52.7	58.9	52.7	34.1	15.5	6.2	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	9.3	3.1	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





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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	7991.1	7991.1	7991.1	7991.1	7991.1	7991.1	7991.1	7991.1	7991.1	7991.1	7991.1
2.5°	6794.6	6726.4	6822.5	6679.9	6676.8	6679.9	6639.6	6602.4	6661.3	6819.4	6834.9
5°	5185.8	5331.5	5378.0	5529.9	5446.2	5322.2	5347.0	5263.3	5467.9	5557.8	5486.5
7.5°	3775.4	3766.1	4079.2	4097.8	4138.1	4141.2	4135.0	3970.7	3803.3	3840.5	3952.1
10°	2929.2	2771.1	2923.0	2907.5	3006.7	2978.8	3019.1	2842.4	2901.3	2901.3	2972.6
12.5°	2386.8	2219.4	2191.5	2151.2	2191.5	2207.0	2222.5	2188.4	2287.6	2334.1	2383.7
15°	1822.6	1729.6	1704.8	1627.3	1639.7	1683.1	1720.3	1735.8	1704.8	1776.1	1782.3
17.5°	1323.6	1320.5	1336.0	1332.9	1320.5	1311.2	1308.1	1267.8	1255.4	1261.6	1286.4
20°	1004.3	1029.1	1081.8	1134.5	1162.4	1128.3	1081.8	1013.6	985.7	991.9	995.0
22.5°	858.6	895.8	967.1	1026.0	1053.9	991.9	908.2	849.3	836.9	833.8	830.7
25°	778.0	821.4	874.1	892.7	889.6	852.4	790.4	765.6	759.4	753.2	725.3
27.5°	734.6	750.1	759.4	781.1	790.4	765.6	750.1	712.9	706.7	706.7	688.1
30°	709.8	700.5	712.9	697.4	709.8	691.2	694.3	694.3	678.8	685.0	685.0
32.5°	660.2	663.3	663.3	632.3	641.6	619.9	641.6	660.2	663.3	666.4	691.2
35°	483.6	539.3	567.2	567.2	576.5	561.0	557.9	536.2	508.4	480.5	468.1
37.5°	424.7	446.4	483.6	505.3	520.8	508.4	480.5	446.4	430.9	418.5	406.1
40°	378.2	396.8	421.6	446.4	477.4	461.9	418.5	403.0	384.4	384.4	372.0
42.5°	341.0	350.3	365.8	403.0	437.1	406.1	375.1	362.7	353.4	350.3	347.2
45°	306.9	310.0	325.5	356.5	396.8	365.8	334.8	319.3	322.4	325.5	322.4
47.5°	275.9	282.1	291.4	328.6	353.4	337.9	303.8	294.5	294.5	294.5	297.6
50°	238.7	254.2	272.8	303.8	322.4	313.1	285.2	272.8	266.6	266.6	269.7
52.5°	213.9	226.3	251.1	288.3	313.1	297.6	269.7	251.1	238.7	235.6	241.8
55°	186.0	207.7	248.0	275.9	310.0	294.5	263.5	241.8	220.1	217.0	217.0
57.5°	167.4	201.5	238.7	272.8	300.7	288.3	263.5	235.6	207.7	204.6	204.6
60°	158.1	195.3	232.5	263.5	300.7	282.1	260.4	229.4	198.4	198.4	195.3
62.5°	148.8	182.9	220.1	251.1	288.3	272.8	251.1	220.1	189.1	189.1	182.9
65°	124.0	158.1	182.9	210.8	251.1	235.6	213.9	192.2	167.4	161.2	164.3
67.5°	86.8	108.5	133.3	161.2	186.0	179.8	170.5	155.0	133.3	130.2	127.1
70°	43.4	58.9	80.6	108.5	130.2	124.0	117.8	105.4	93.0	89.9	89.9
72.5°	6.2	18.6	34.1	49.6	68.2	71.3	68.2	65.1	62.0	58.9	62.0
75°	0.0	0.0	0.0	12.4	27.9	34.1	40.3	46.5	46.5	40.3	49.6
77.5°	0.0	0.0	0.0	0.0	3.1	15.5	31.0	40.3	49.6	43.4	58.9
80°	0.0	0.0	0.0	0.0	3.1	18.6	31.0	43.4	49.6	43.4	62.0
82.5°	0.0	0.0	0.0	0.0	3.1	21.7	31.0	40.3	46.5	43.4	55.8
85°	0.0	0.0	0.0	0.0	9.3	18.6	12.4	6.2	3.1	3.1	9.3
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: P529613

CATALOG NUMBER: GALN-SA4D-735-U-SLL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7991.1	7991.1	7991.1	7991.1	7991.1	7991.1	7991.1	7991.1	7991.1	7991.1
2.5°	6921.7	7141.7	7377.3	7467.2	7746.2	7957.0	8099.5	8406.4	8452.9	8456.0
5°	5560.9	5672.5	6075.4	6264.5	6679.9	7002.2	7346.3	7842.3	8173.9	8198.7
7.5°	3952.1	4262.1	4432.6	4925.4	5436.9	5942.1	6453.6	7030.1	7414.5	7423.8
10°	3180.3	3381.8	3685.6	4054.4	4485.3	4999.8	5681.8	6351.3	6741.9	6838.0
12.5°	2560.4	2913.7	3260.9	3642.2	3970.7	4358.2	5092.8	5985.5	6307.9	6500.1
15°	1971.4	2293.8	2702.9	3149.3	3521.3	4038.9	4875.8	5895.6	6438.1	6503.2
17.5°	1453.8	1742.0	2120.2	2541.8	3099.7	3834.3	4913.0	6351.3	6862.8	6971.2
20°	1044.6	1212.0	1509.6	1999.3	2709.1	3595.7	4950.2	6813.2	7591.2	7777.2
22.5°	827.6	895.8	1091.1	1525.1	2272.1	3344.6	5213.7	7696.6	8592.4	8862.1
25°	719.1	756.3	849.3	1202.7	1996.2	3319.8	5635.3	8756.7	9925.3	10120.6
27.5°	694.3	700.5	781.1	1103.5	1847.4	3155.5	5796.5	9509.9	10756.0	10954.4
30°	731.5	830.7	836.9	933.0	1571.6	2830.0	5880.2	10238.3	11459.6	11605.3
32.5°	632.3	601.3	623.0	722.2	1382.5	2641.0	6038.2	10873.8	12262.5	12364.7
35°	440.2	461.9	511.5	626.1	1208.9	2442.6	6078.5	11574.3	13025.0	13130.4
37.5°	406.1	418.5	458.8	533.2	1063.2	2331.0	6022.7	12085.8	13815.4	13961.1
40°	378.2	393.7	415.4	483.6	954.7	2207.0	5945.2	12547.6	14299.0	14658.5
42.5°	356.5	368.9	387.5	461.9	861.7	2083.0	5836.8	13198.6	14732.9	15046.0
45°	331.7	350.3	372.0	449.5	809.0	1999.3	5756.2	13158.3	14984.0	15151.4
47.5°	306.9	337.9	362.7	418.5	793.5	1959.0	5790.3	13006.4	14779.4	14664.7
50°	282.1	322.4	365.8	347.2	756.3	1878.4	5830.6	13214.1	14292.8	14271.1
52.5°	260.4	306.9	341.0	285.2	672.6	1800.9	6221.1	13486.8	14636.8	14348.6
55°	229.4	275.9	272.8	229.4	545.5	1742.0	6528.0	13493.0	14404.4	14512.8
57.5°	207.7	244.9	213.9	192.2	403.0	1456.9	6028.9	11313.9	12330.6	12522.8
60°	192.2	238.7	161.2	151.9	263.5	1050.8	5263.3	8762.9	9801.3	10163.9
62.5°	176.7	226.3	127.1	124.0	182.9	747.0	4327.2	7333.9	8446.7	8939.6
65°	155.0	161.2	102.3	96.1	130.2	403.0	2634.8	5049.4	6314.1	6497.0
67.5°	127.1	124.0	83.7	77.5	86.8	195.3	1162.4	2529.4	3660.8	3967.6
70°	102.3	102.3	71.3	62.0	62.0	89.9	303.8	1007.4	1655.2	1831.9
72.5°	74.4	77.5	55.8	49.6	46.5	43.4	49.6	201.5	434.0	554.8
75°	65.1	68.2	55.8	43.4	34.1	27.9	21.7	18.6	24.8	40.3
77.5°	71.3	71.3	58.9	40.3	31.0	21.7	12.4	6.2	6.2	3.1
80°	89.9	93.0	77.5	52.7	37.2	24.8	15.5	6.2	3.1	3.1
82.5°	96.1	105.4	86.8	65.1	46.5	27.9	15.5	3.1	0.0	0.0
85°	24.8	40.3	68.2	58.9	46.5	27.9	15.5	3.1	0.0	0.0
87.5°	0.0	3.1	9.3	9.3	12.4	12.4	9.3	3.1	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)