

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: P530499

Luminaire Tested: **GALN-SA5D-727-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530499
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-SA5D-727-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1200mA 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: 17912 lumens
Efficiency: N/A
Efficacy: 58.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

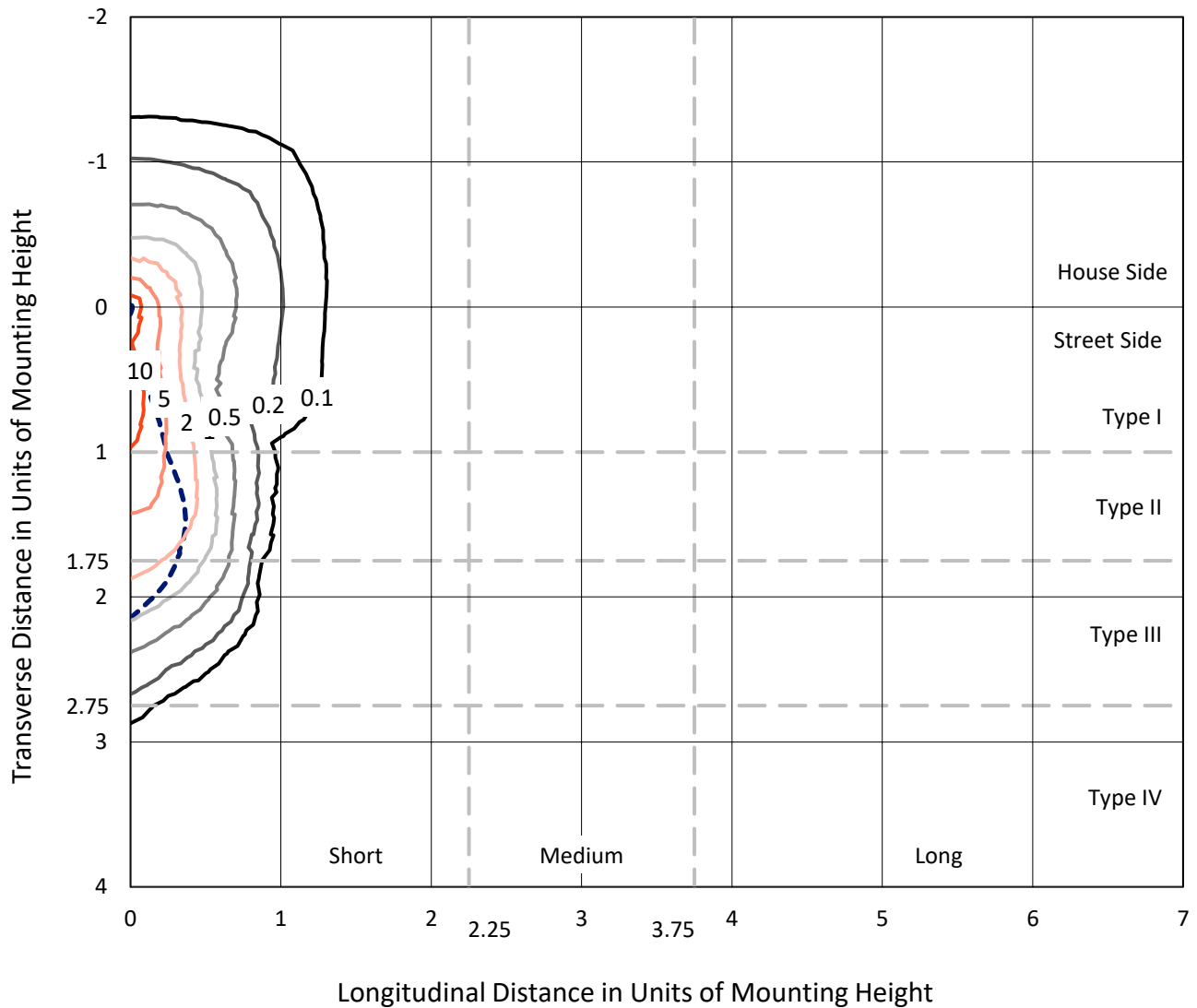
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P530499
 CATALOG NUMBER: GALN-SA5D-727-U-SLR-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

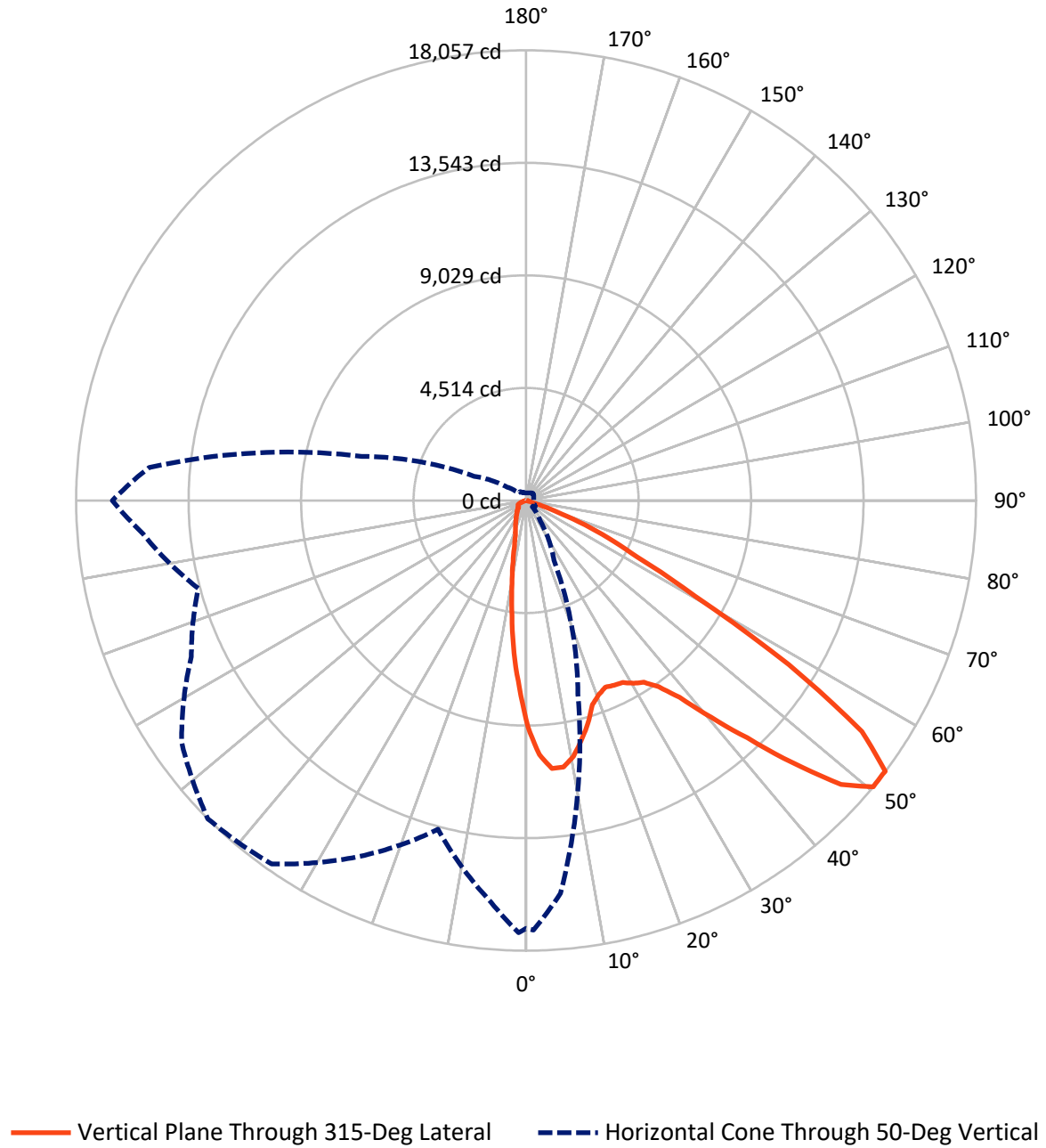
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 fc
 Type III - Short - N/A

REPORT NUMBER: P530499
CATALOG NUMBER: GALN-SA5D-727-U-SLR-GRSBK

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3587.8	0.0	3587.8
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	14324.2	0.0	14324.2
	% Fixture	80.0	0.0	80.0
Total	Lumens	17912.0	0.0	17912.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	662.1	3.7
10°-20°	1315.9	7.3
20°-30°	1976.9	11.0
30°-40°	2967.2	16.6
40°-50°	4170.2	23.3
50°-60°	4498.3	25.1
60°-70°	2088.6	11.7
70°-80°	196.5	1.1
80°-90°	36.2	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°	17912.0	100.0
0°-180°	17912.0	100.0

Coefficient of Utilization

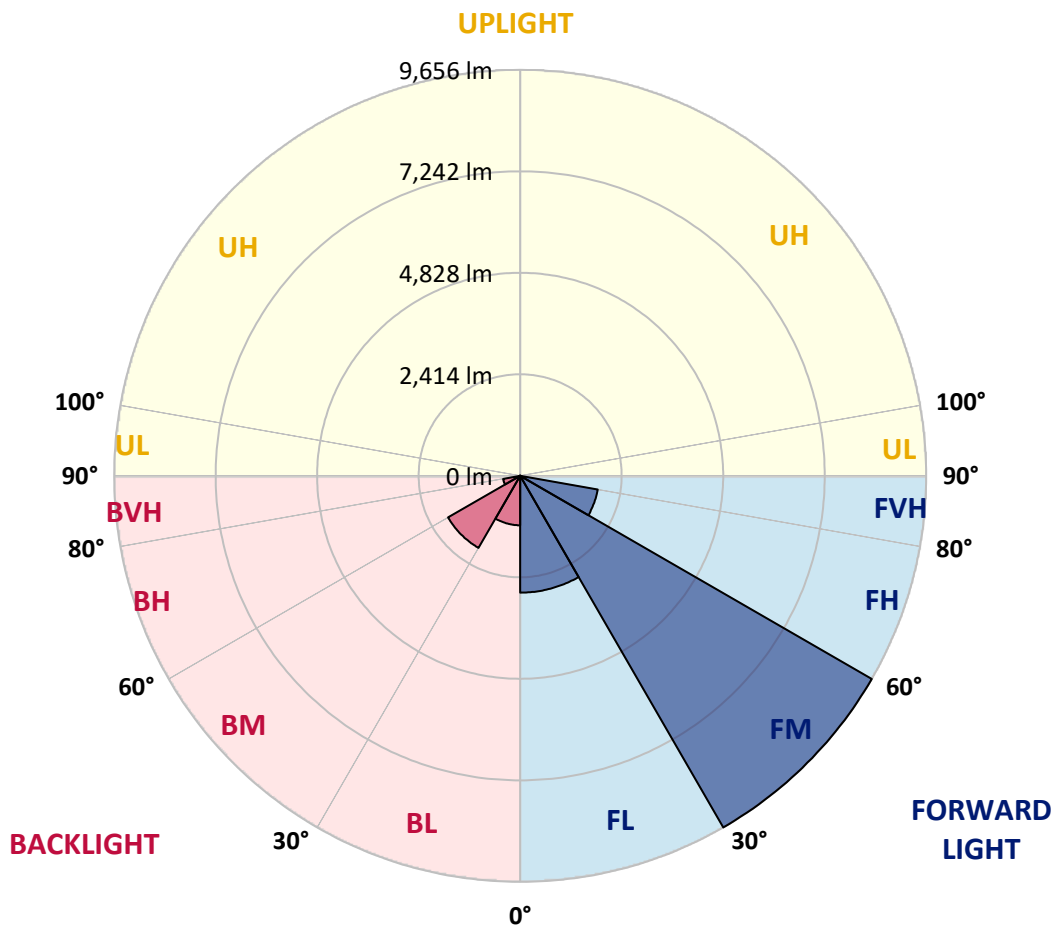


REPORT NUMBER: P530499
 CATALOG NUMBER: GALN-SA5D-727-U-SLR-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2778.9	15.5			
FM (30°-60°)	9655.9	53.9			
FH (60°-80°)	1873.1	10.5			G2/5000
FVH (80°-90°)	16.3	0.1			G1/100
BL (0°-30°)	1176.0	6.6	B3/2500		
BM (30°-60°)	1979.9	11.1	B2/2500		
BH (60°-80°)	412.0	2.3	B1/500		G1/500
BVH (80°-90°)	19.9	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





REPORT NUMBER: P530499

CATALOG NUMBER: GALN-SA5D-727-U-SLR-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9083.6	9083.6	9083.6	9083.6	9083.6	9083.6	9083.6	9083.6	9083.6	9083.6	9083.6
2.5°	9442.6	9296.9	9112.1	8959.3	8731.8	8273.4	8149.0	7999.7	7875.3	7708.3	7473.7
5°	8586.1	8539.9	8454.6	7878.9	7463.1	6908.7	6453.8	6261.9	6009.6	5803.4	5654.2
7.5°	7932.2	7747.4	7477.3	6898.0	6233.5	5640.0	5135.3	4840.3	4506.3	4392.6	4190.0
10°	7232.1	7274.7	6876.7	6062.9	5259.7	4779.9	4467.2	4182.9	3880.8	3681.8	3393.9
12.5°	7008.2	6869.6	6564.0	5558.2	4872.3	4424.5	4044.3	3692.5	3372.6	3052.8	2775.6
15°	7153.9	6940.7	6514.2	5451.6	4573.8	4015.9	3539.6	3063.4	2768.4	2359.8	2071.9
17.5°	7676.3	7505.7	6933.6	5565.3	4421.0	3624.9	2917.7	2427.3	1975.9	1606.3	1460.6
20°	8547.0	8305.3	7587.5	5711.0	4193.5	3152.3	2366.9	1762.7	1336.2	1179.9	1098.1
22.5°	9399.9	9268.4	8362.2	5991.8	3991.0	2732.9	1776.9	1187.0	998.6	970.2	916.9
25°	11024.0	10629.6	9545.6	6500.0	3834.6	2338.4	1339.8	956.0	845.8	824.5	831.6
27.5°	11990.7	11660.2	10640.2	6837.6	3660.5	2036.4	1133.7	877.8	803.2	757.0	739.2
30°	12918.2	12534.4	11184.0	7036.6	3287.3	1716.5	1005.7	842.3	824.5	757.0	735.6
32.5°	13632.6	13255.9	11969.4	7335.1	3134.5	1510.4	828.0	657.5	611.3	604.2	668.1
35°	14727.2	14325.6	12641.0	7498.6	3017.2	1403.8	717.9	586.4	533.1	511.8	515.3
37.5°	15747.1	15473.5	13263.0	7562.6	2892.8	1371.8	643.2	526.0	479.8	465.6	462.0
40°	16600.0	15988.8	13852.9	7630.1	2839.5	1311.4	597.0	479.8	447.8	426.5	426.5
42.5°	16991.0	16369.0	14513.9	7591.0	2825.3	1215.4	597.0	440.7	415.8	394.5	390.9
45°	16905.7	16653.3	14808.9	7573.3	2825.3	1119.5	543.7	430.0	394.5	366.0	358.9
47.5°	17126.0	16795.5	15178.5	7647.9	2768.4	1051.9	458.4	451.3	373.2	337.6	330.5
50°	17165.1	17229.1	15821.7	8035.3	2644.1	966.6	358.9	444.2	358.9	305.6	298.5
52°	17421.0	17022.9	16017.2	8241.4	2512.6	902.7	302.1	380.3	344.7	284.3	277.2
52.5°	17069.1	17328.6	16063.4	8316.0	2526.8	860.0	291.4	373.2	337.6	284.3	266.5
55°	16674.7	16923.4	15875.1	8475.9	2317.1	675.2	227.4	270.1	305.6	248.8	238.1
57.5°	14492.6	14744.9	13796.0	7761.6	1887.1	476.2	188.4	202.6	270.1	231.0	220.3
60°	12882.7	12701.5	11578.4	6475.1	1339.8	266.5	149.3	156.4	295.0	213.2	209.7
62.5°	11773.9	11386.5	9677.1	5000.3	817.4	177.7	117.3	120.8	227.4	199.0	199.0
65°	8710.5	8276.9	6428.9	3024.3	401.6	124.4	88.8	96.0	142.2	170.6	170.6
67.5°	4971.8	4804.8	3106.1	1364.7	167.0	78.2	67.5	74.6	110.2	138.6	131.5
70°	2285.1	2050.6	1194.1	287.9	78.2	53.3	53.3	60.4	88.8	103.1	96.0
72.5°	668.1	632.6	291.4	46.2	32.0	32.0	35.5	46.2	67.5	78.2	71.1
75°	49.8	32.0	21.3	14.2	14.2	21.3	28.4	46.2	67.5	74.6	60.4
77.5°	3.6	7.1	3.6	3.6	10.7	21.3	32.0	56.9	88.8	92.4	67.5
80°	3.6	3.6	0.0	3.6	10.7	21.3	35.5	64.0	99.5	106.6	56.9
82.5°	0.0	0.0	0.0	3.6	14.2	28.4	42.6	67.5	92.4	113.7	60.4
85°	0.0	0.0	0.0	3.6	21.3	39.1	49.8	17.8	10.7	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: P530499

CATALOG NUMBER: GALN-SA5D-727-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9083.6	9083.6	9083.6	9083.6	9083.6	9083.6	9083.6	9083.6	9083.6	9083.6	9083.6
2.5°	7640.8	7548.4	7512.8	7544.8	7534.2	7523.5	7719.0	7676.3	7669.2	7733.2	7719.0
5°	5735.9	5572.4	6020.2	5839.0	6027.3	6141.1	6162.4	6173.0	6304.5	6165.9	6347.2
7.5°	4086.9	4129.6	4126.0	4246.9	4463.6	4655.5	4769.3	4680.4	4673.3	4655.5	4577.4
10°	3266.0	3191.4	3177.1	3148.7	3216.2	3379.7	3518.3	3408.1	3330.0	3436.6	3404.6
12.5°	2668.9	2565.9	2509.0	2395.3	2398.8	2509.0	2509.0	2509.0	2587.2	2647.6	2693.8
15°	2047.0	1961.7	1961.7	1848.0	1823.1	1826.7	1883.5	1890.6	2015.0	2050.6	2068.3
17.5°	1432.2	1386.0	1439.3	1485.5	1457.1	1464.2	1485.5	1492.6	1510.4	1496.2	1531.7
20°	1101.7	1094.6	1108.8	1190.5	1251.0	1286.5	1261.6	1226.1	1204.8	1155.0	1155.0
22.5°	934.7	948.9	973.8	1041.3	1119.5	1140.8	1112.4	1030.6	966.6	959.5	963.1
25°	831.6	845.8	884.9	927.6	970.2	1005.7	977.3	916.9	881.4	849.4	849.4
27.5°	767.6	774.7	796.1	828.0	863.6	892.0	881.4	849.4	810.3	796.1	764.1
30°	717.9	728.5	753.4	760.5	792.5	806.7	789.0	781.8	757.0	739.2	728.5
32.5°	693.0	689.4	707.2	714.3	717.9	728.5	707.2	717.9	714.3	685.9	675.2
35°	522.4	550.8	597.0	636.1	646.8	661.0	657.5	643.2	604.2	572.2	533.1
37.5°	469.1	486.9	511.8	543.7	586.4	604.2	597.0	561.5	515.3	494.0	486.9
40°	433.6	444.2	465.6	486.9	529.5	561.5	536.6	504.6	469.1	451.3	440.7
42.5°	401.6	405.1	415.8	437.1	469.1	518.9	476.2	433.6	419.4	408.7	401.6
45°	366.0	366.0	380.3	390.9	426.5	472.7	430.0	390.9	383.8	376.7	373.2
47.5°	337.6	341.2	348.3	362.5	390.9	422.9	394.5	362.5	344.7	341.2	334.1
50°	302.1	305.6	319.8	334.1	369.6	387.4	369.6	334.1	316.3	305.6	305.6
52°	273.6	284.3	298.5	327.0	351.8	380.3	358.9	319.8	298.5	287.9	280.8
52.5°	270.1	277.2	291.4	323.4	351.8	376.7	355.4	316.3	291.4	284.3	277.2
55°	241.7	252.3	277.2	316.3	348.3	376.7	348.3	312.7	277.2	259.4	252.3
57.5°	231.0	238.1	270.1	319.8	344.7	376.7	348.3	312.7	277.2	245.2	238.1
60°	220.3	234.6	270.1	309.2	341.2	380.3	351.8	309.2	270.1	231.0	231.0
62.5°	209.7	220.3	266.5	302.1	327.0	366.0	337.6	302.1	259.4	220.3	216.8
65°	181.2	199.0	234.6	252.3	280.8	316.3	287.9	263.0	227.4	195.5	191.9
67.5°	138.6	145.7	174.1	195.5	213.2	245.2	231.0	199.0	174.1	149.3	149.3
70°	96.0	103.1	124.4	135.0	152.8	170.6	159.9	135.0	117.3	103.1	99.5
72.5°	67.5	71.1	78.2	85.3	92.4	99.5	96.0	78.2	67.5	64.0	60.4
75°	53.3	60.4	64.0	60.4	56.9	53.3	53.3	46.2	39.1	35.5	35.5
77.5°	53.3	56.9	53.3	46.2	39.1	35.5	32.0	28.4	21.3	17.8	21.3
80°	46.2	46.2	46.2	39.1	35.5	32.0	28.4	24.9	21.3	17.8	17.8
82.5°	49.8	49.8	46.2	39.1	39.1	32.0	32.0	28.4	24.9	17.8	17.8
85°	0.0	0.0	0.0	7.1	17.8	32.0	32.0	28.4	24.9	21.3	21.3
87.5°	0.0	0.0	0.0	0.0	3.6	7.1	14.2	17.8	21.3	21.3	21.3
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: P530499

CATALOG NUMBER: GALN-SA5D-727-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	9083.6	9083.6	9083.6	9083.6	9083.6	9083.6	9083.6	9083.6	9083.6	9083.6	9083.6
2.5°	7846.9	7981.9	8237.8	8493.7	8650.1	8834.9	9168.9	9346.6	9577.6	9691.4	9915.2
5°	6322.3	6642.1	6755.9	7047.3	7360.0	7672.8	8170.3	8717.6	9172.5	9485.2	9890.4
7.5°	4612.9	4687.5	5128.2	5323.7	5835.4	6404.0	7082.8	7772.3	8348.0	8859.7	9168.9
10°	3457.9	3731.5	4008.7	4381.9	4794.1	5380.5	6030.9	6791.4	7537.7	8049.5	8440.4
12.5°	2779.1	2995.9	3365.5	3767.1	4275.3	4662.7	5316.6	6070.0	7036.6	7537.7	8053.0
15°	2103.9	2381.1	2800.4	3216.2	3752.9	4161.6	4822.6	5771.5	7015.3	7704.7	8149.0
17.5°	1560.1	1748.5	2125.2	2590.8	3138.0	3713.8	4605.8	5739.5	7253.4	8074.3	8532.8
20°	1194.1	1258.1	1496.2	1912.0	2505.5	3258.9	4254.0	5878.1	7957.1	8973.5	9439.0
22.5°	966.6	995.1	1087.5	1375.3	1951.1	2860.8	4086.9	5974.0	8749.6	10050.3	10672.2
25°	842.3	835.2	895.6	1020.0	1524.6	2487.7	3873.7	6336.5	9719.8	11315.5	11873.4
27.5°	767.6	767.6	796.1	884.9	1265.2	2246.0	3738.7	6595.9	10697.1	12427.8	12729.9
30°	728.5	735.6	817.4	845.8	1051.9	1958.2	3514.8	6858.9	11631.8	13138.6	13554.4
32.5°	675.2	646.8	629.0	700.1	884.9	1698.7	3290.9	6969.1	12388.7	14009.3	14364.7
35°	518.9	504.6	526.0	579.3	760.5	1478.4	3042.1	7093.5	13259.4	15018.6	15089.6
37.5°	469.1	465.6	479.8	526.0	639.7	1286.5	2864.4	7061.5	13924.0	15853.7	15661.8
40°	433.6	433.6	444.2	483.3	572.2	1151.4	2679.6	7033.1	14567.2	16791.9	16230.4
42.5°	405.1	405.1	422.9	447.8	543.7	1062.6	2541.0	6994.0	15107.4	17367.7	16564.5
45°	366.0	376.7	405.1	430.0	550.8	1002.2	2437.9	6844.7	15292.2	17360.6	16404.6
47.5°	337.6	351.8	380.3	415.8	497.5	984.4	2366.9	6713.2	15228.2	16934.1	15903.5
50°	305.6	323.4	362.5	422.9	422.9	948.9	2292.2	6830.5	15182.0	16603.6	15423.7
52°	284.3	298.5	348.3	412.2	369.6	874.2	2246.0	7057.9	15370.4	16560.9	15210.5
52.5°	280.8	291.4	337.6	405.1	351.8	860.0	2214.0	7111.3	15430.8	16454.3	15356.2
55°	248.8	263.0	309.2	316.3	287.9	707.2	2111.0	7232.1	15132.3	16244.7	15217.6
57.5°	234.6	241.7	273.6	259.4	248.8	533.1	1816.0	7043.7	13440.7	14428.6	14158.5
60°	216.8	223.9	255.9	202.6	209.7	373.2	1364.7	6116.2	10793.0	12022.7	12509.6
62.5°	209.7	206.1	241.7	163.5	177.7	270.1	963.1	4971.8	8316.0	9897.5	10739.7
65°	184.8	181.2	174.1	138.6	152.8	209.7	575.7	3244.7	5860.3	7488.0	7950.0
67.5°	142.2	149.3	127.9	110.2	127.9	163.5	319.8	1453.5	3074.1	4492.1	4865.2
70°	99.5	106.6	103.1	96.0	113.7	135.0	184.8	497.5	1272.3	2359.8	2601.4
72.5°	60.4	74.6	78.2	81.7	99.5	117.3	131.5	159.9	337.6	835.2	1037.7
75°	35.5	49.8	60.4	71.1	81.7	99.5	110.2	113.7	117.3	156.4	252.3
77.5°	24.9	35.5	53.3	67.5	81.7	99.5	117.3	124.4	117.3	110.2	117.3
80°	21.3	35.5	49.8	64.0	85.3	103.1	117.3	117.3	113.7	99.5	106.6
82.5°	21.3	35.5	53.3	67.5	81.7	99.5	113.7	117.3	106.6	99.5	103.1
85°	24.9	39.1	56.9	71.1	88.8	81.7	74.6	60.4	56.9	46.2	49.8
87.5°	24.9	35.5	35.5	39.1	42.6	42.6	42.6	39.1	32.0	28.4	28.4
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: P530499

CATALOG NUMBER: GALN-SA5D-727-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9083.6	9083.6	9083.6	9083.6	9083.6	9083.6	9083.6	9083.6	9083.6	9083.6
2.5°	9925.9	10210.2	10199.6	10206.7	10164.0	9876.2	9737.6	9385.7	9485.2	9442.6
5°	10306.2	10586.9	10828.6	10800.2	10473.2	10082.3	9503.0	8955.7	8806.4	8586.1
7.5°	9925.9	10601.1	10825.0	10793.0	10309.7	9808.6	8884.6	8337.3	8077.9	7932.2
10°	9321.7	10103.6	10380.8	10437.7	10110.7	9350.2	8500.8	7623.0	7484.4	7232.1
12.5°	8977.0	9545.6	9716.2	9869.0	9755.3	9186.7	8209.4	7367.1	7175.2	7008.2
15°	8696.3	9033.9	9105.0	9279.1	9346.6	9041.0	8362.2	7644.3	7171.7	7153.9
17.5°	8955.7	8817.1	8557.7	8611.0	8824.2	9044.5	8756.7	8191.6	7733.2	7676.3
20°	9385.7	8774.5	8188.1	8319.6	8497.3	9172.5	9353.7	8955.7	8692.7	8547.0
22.5°	9879.7	8849.1	8070.8	8134.8	8472.4	9460.4	10320.4	10100.0	9609.6	9399.9
25°	10793.0	9055.2	8163.2	8205.8	8667.8	9861.9	11194.6	11358.1	11066.7	11024.0
27.5°	11685.1	9588.3	8365.8	8269.8	8767.3	10252.9	11724.2	12602.0	12090.2	11990.7
30°	12140.0	10021.9	8667.8	8504.4	9179.6	10491.0	12044.0	13412.2	12964.4	12918.2
32.5°	12836.5	10416.3	8902.4	8692.7	9410.6	10785.9	12641.0	14297.1	13863.6	13632.6
35°	13127.9	10846.4	9417.7	9172.5	10071.6	11198.2	12946.7	15086.1	14951.0	14727.2
37.5°	13689.4	11308.4	10025.4	10011.2	10871.2	11734.8	13497.5	16159.4	16134.5	15747.1
40°	13735.6	11813.0	10985.0	11432.7	12108.0	12669.5	13980.8	16457.9	16863.0	16600.0
42.5°	13806.7	12697.9	12644.6	13014.2	13593.5	13472.6	13998.6	16529.0	17147.3	16991.0
45°	13838.7	13582.8	14332.7	15015.0	15256.7	14524.6	13831.6	16393.9	17296.6	16905.7
47.5°	13582.8	14343.3	15697.4	17015.8	17086.9	15171.4	13760.5	16255.3	17385.4	17126.0
50°	13618.4	14819.6	16877.2	18057.1	17797.7	15743.6	13650.3	16170.0	17339.2	17165.1
52°	13533.1	14830.2	17044.3	18035.8	17854.5	15427.3	13462.0	15843.1	17296.6	17421.0
52.5°	13629.0	14766.2	16870.1	18050.0	17815.5	15583.6	13437.1	16024.3	17321.5	17069.1
55°	13298.5	14005.7	15850.2	16351.3	16315.7	14144.3	12673.0	15423.7	16671.1	16674.7
57.5°	12019.1	12140.0	12431.4	12420.7	12257.2	11120.0	10839.2	14183.4	14862.2	14492.6
60°	10590.5	8888.2	8102.8	7782.9	7601.7	7416.9	9588.3	12975.1	13039.1	12882.7
62.5°	9151.2	6162.4	5117.5	5028.7	5071.3	5746.6	9268.4	12495.3	12111.5	11773.9
65°	7384.9	4492.1	3717.3	3600.1	4015.9	4744.4	7502.2	9581.2	8991.2	8710.5
67.5°	4637.8	3276.7	2512.6	2292.2	2793.3	3266.0	4929.2	6020.2	5359.2	4971.8
70°	2750.7	1830.2	1137.2	1020.0	1147.9	1741.4	2761.3	3003.0	2484.1	2285.1
72.5°	1083.9	671.7	316.3	270.1	280.8	611.3	1016.4	991.5	749.9	668.1
75°	291.4	202.6	110.2	88.8	74.6	113.7	163.5	106.6	39.1	49.8
77.5°	135.0	120.8	96.0	74.6	56.9	42.6	21.3	7.1	7.1	3.6
80°	117.3	103.1	88.8	74.6	56.9	35.5	17.8	3.6	3.6	3.6
82.5°	110.2	96.0	81.7	67.5	53.3	35.5	17.8	3.6	0.0	0.0
85°	46.2	60.4	67.5	64.0	56.9	35.5	17.8	3.6	0.0	0.0
87.5°	24.9	21.3	17.8	14.2	10.7	7.1	7.1	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)