

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: P532371

Luminaire Tested: **GALN-SA7D-727-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532371  
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-SA7D-727-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 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: 24912 lumens  
Efficiency: N/A  
Efficacy: 57.5 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

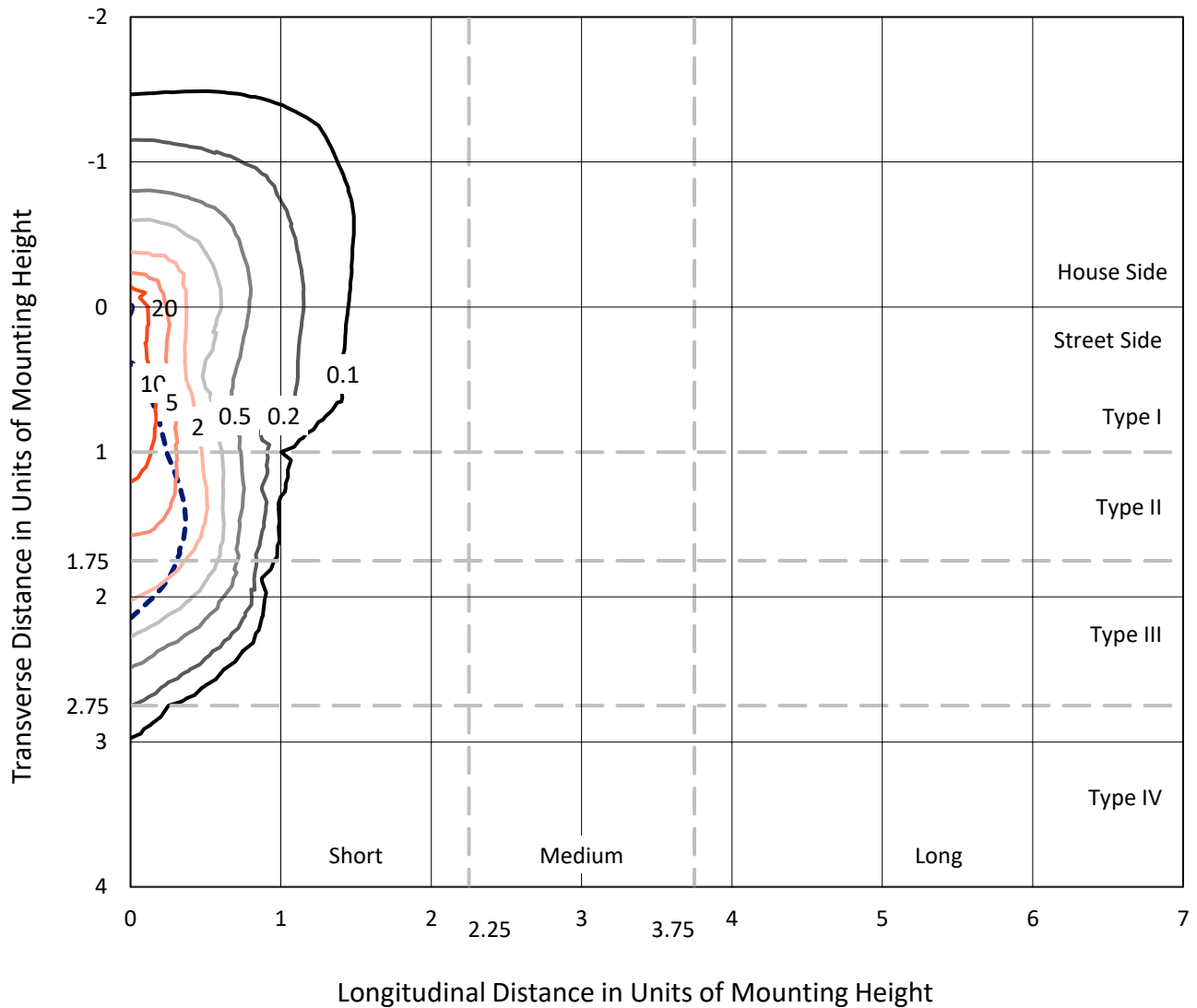
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P532371  
 CATALOG NUMBER: GALN-SA7D-727-U-SLR-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

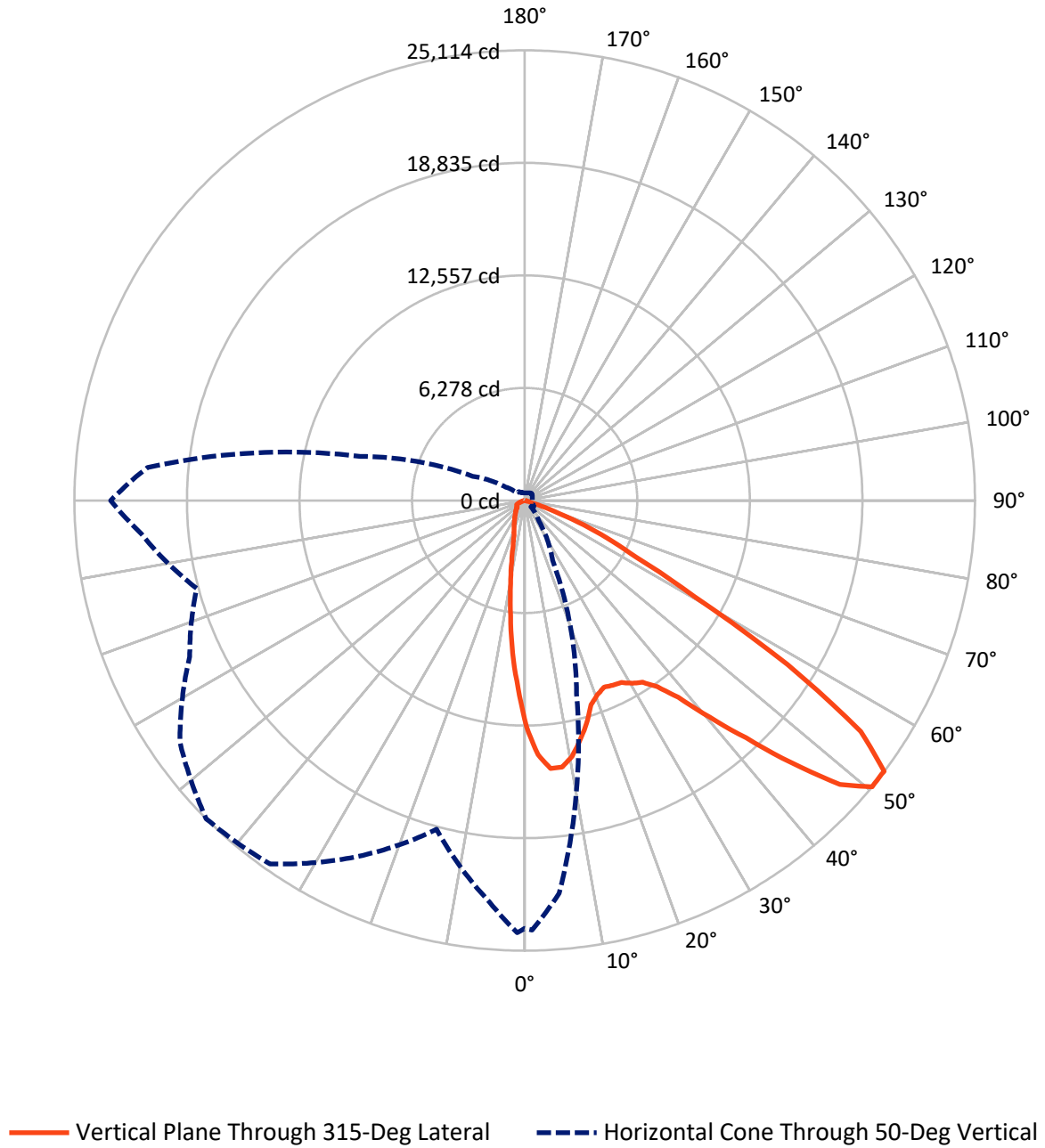
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.2 fc  
 Type III - Short - N/A

REPORT NUMBER: P532371  
CATALOG NUMBER: GALN-SA7D-727-U-SLR-GRSBK

### Luminous Intensity Polar Plot



REPORT NUMBER: P532371  
 CATALOG NUMBER: GALN-SA7D-727-U-SLR-GRSBK

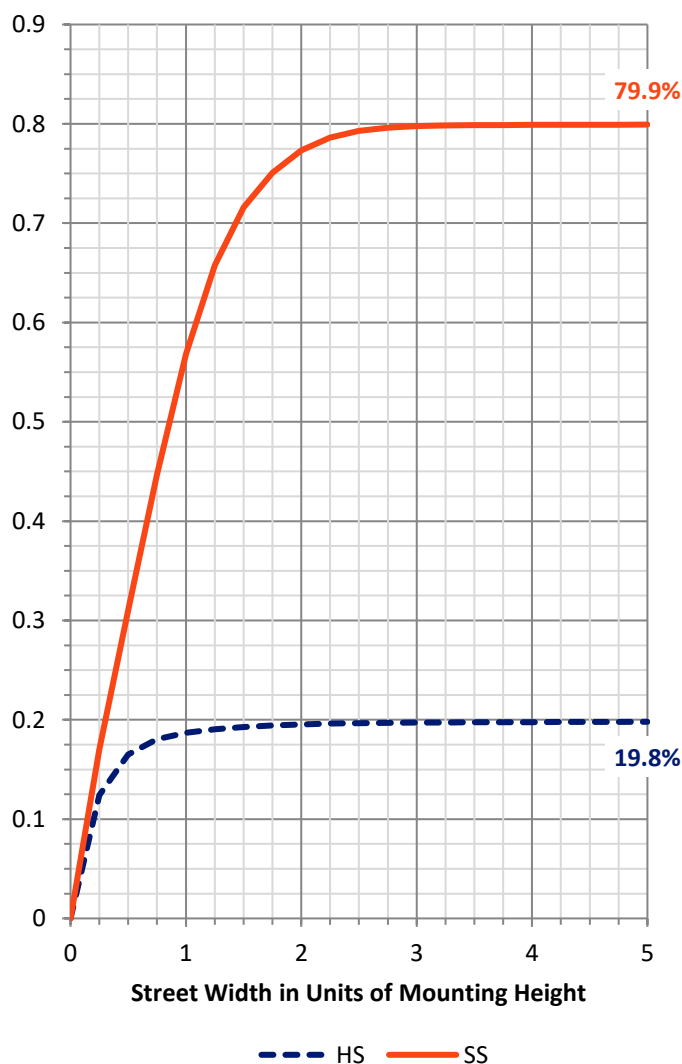
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4989.9	0.0	4989.9
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	19922.1	0.0	19922.1
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	24912.0	0.0	24912.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	920.8	3.7
10°-20°	1830.2	7.3
20°-30°	2749.4	11.0
30°-40°	4126.8	16.6
40°-50°	5800.0	23.3
50°-60°	6256.3	25.1
60°-70°	2904.8	11.7
70°-80°	273.3	1.1
80°-90°	50.4	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°	24912.0	100.0
0°-180°	24912.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P532371

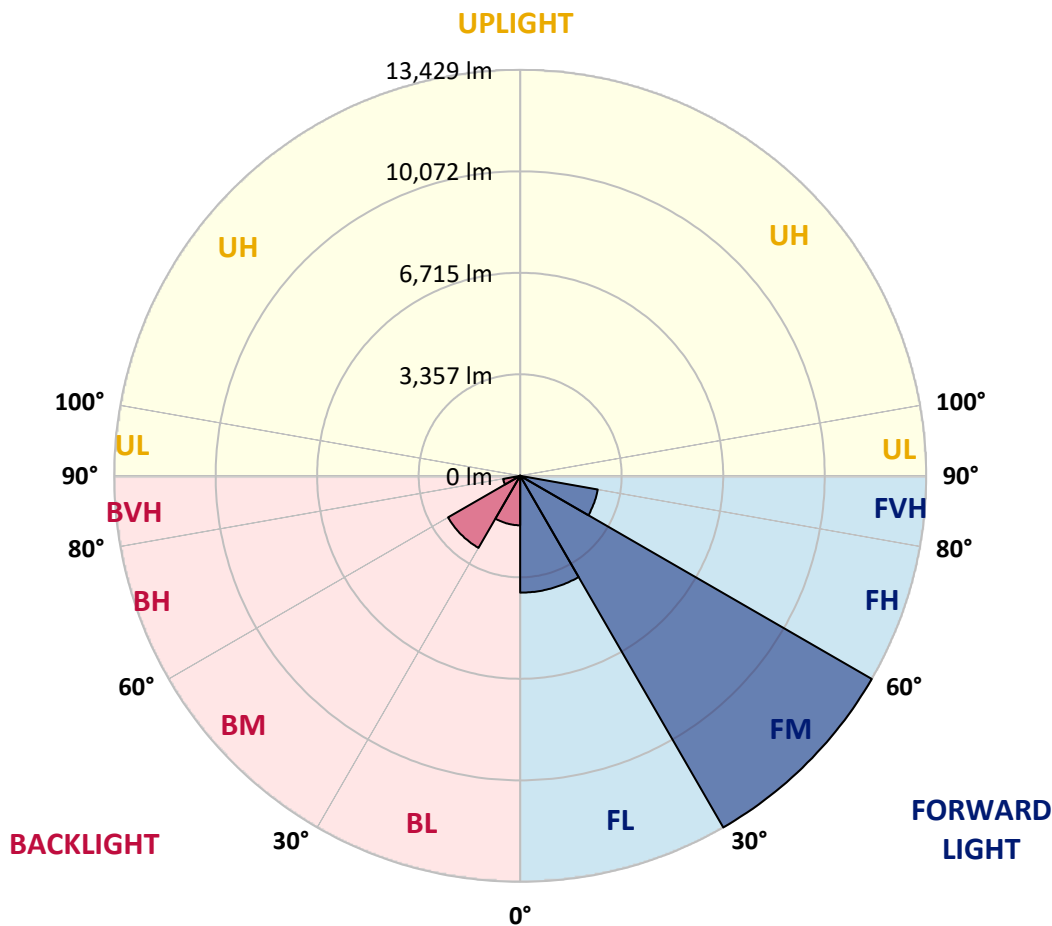
CATALOG NUMBER: GALN-SA7D-727-U-SLR-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3864.9	15.5			
FM (30°-60°)	13429.4	53.9			
FH (60°-80°)	2605.1	10.5			G2/5000
FVH (80°-90°)	22.7	0.1			G1/100
BL (0°-30°)	1635.5	6.6	B3/2500		
BM (30°-60°)	2753.7	11.1	B3/5000		
BH (60°-80°)	573.0	2.3	B2/1000		G2/1000
BVH (80°-90°)	27.7	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-G2**

Type III Short





REPORT NUMBER: P532371

CATALOG NUMBER: GALN-SA7D-727-U-SLR-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12633.5	12633.5	12633.5	12633.5	12633.5	12633.5	12633.5	12633.5	12633.5	12633.5	12633.5
2.5°	13132.7	12930.1	12673.1	12460.5	12144.2	11506.6	11333.6	11126.0	10953.0	10720.7	10394.5
5°	11941.5	11877.3	11758.7	10958.0	10379.7	9608.6	8975.9	8709.0	8358.1	8071.4	7863.8
7.5°	11032.1	10775.1	10399.4	9593.8	8669.5	7844.1	7142.2	6731.9	6267.3	6109.2	5827.4
10°	10058.4	10117.7	9564.1	8432.2	7315.2	6647.9	6213.0	5817.6	5397.4	5120.6	4720.3
12.5°	9747.0	9554.2	9129.2	7730.4	6776.4	6153.7	5624.8	5135.5	4690.6	4245.8	3860.2
15°	9949.6	9653.1	9060.0	7582.1	6361.2	5585.2	4922.9	4260.6	3850.4	3281.9	2881.6
17.5°	10676.2	10439.0	9643.2	7740.3	6148.7	5041.5	4058.0	3375.9	2748.1	2234.1	2031.4
20°	11887.2	11551.1	10552.7	7942.9	5832.4	4384.2	3291.8	2451.6	1858.5	1641.0	1527.3
22.5°	13073.4	12890.5	11630.2	8333.4	5550.6	3800.9	2471.3	1650.9	1388.9	1349.4	1275.2
25°	15332.2	14783.6	13276.1	9040.2	5333.2	3252.3	1863.4	1329.6	1176.4	1146.7	1156.6
27.5°	16676.6	16217.0	14798.4	9509.7	5091.0	2832.2	1576.7	1220.8	1117.0	1052.8	1028.1
30°	17966.7	17432.9	15554.7	9786.5	4572.0	2387.3	1398.8	1171.4	1146.7	1052.8	1023.1
32.5°	18960.2	18436.2	16647.0	10201.7	4359.5	2100.6	1151.6	914.4	850.1	840.3	929.2
35°	20482.5	19924.0	17581.2	10429.1	4196.3	1952.4	998.4	815.5	741.4	711.7	716.7
37.5°	21901.1	21520.5	18446.1	10518.1	4023.4	1907.9	894.6	731.5	667.3	647.5	642.6
40°	23087.3	22237.2	19266.6	10612.0	3949.2	1823.9	830.4	667.3	622.8	593.1	593.1
42.5°	23631.0	22766.0	20186.0	10557.6	3929.4	1690.4	830.4	612.9	578.3	548.6	543.7
45°	23512.4	23161.5	20596.2	10532.9	3929.4	1556.9	756.2	598.1	548.6	509.1	499.2
47.5°	23818.8	23359.2	21110.2	10636.7	3850.4	1463.0	637.6	627.7	519.0	469.6	459.7
50°	23873.2	23962.2	22004.9	11175.4	3677.4	1344.4	499.2	617.8	499.2	425.1	415.2
52°	24229.1	23675.5	22276.7	11462.1	3494.5	1255.4	420.1	528.9	479.4	395.4	385.5
52.5°	23739.8	24100.6	22341.0	11565.9	3514.3	1196.1	405.3	519.0	469.6	395.4	370.7
55°	23191.1	23537.1	22079.0	11788.3	3222.6	939.1	316.3	375.6	425.1	346.0	331.2
57.5°	20156.3	20507.2	19187.5	10794.8	2624.6	662.3	262.0	281.7	375.6	321.3	306.4
60°	17917.3	17665.2	16103.3	9005.6	1863.4	370.7	207.6	217.5	410.2	296.6	291.6
62.5°	16375.1	15836.4	13459.0	6954.4	1136.8	247.1	163.1	168.1	316.3	276.8	276.8
65°	12114.5	11511.5	8941.3	4206.2	558.5	173.0	123.6	133.5	197.7	237.2	237.2
67.5°	6914.8	6682.5	4319.9	1898.0	232.3	108.7	93.9	103.8	153.2	192.8	182.9
70°	3178.2	2851.9	1660.7	400.4	108.7	74.1	74.1	84.0	123.6	143.3	133.5
72.5°	929.2	879.8	405.3	64.3	44.5	44.5	49.4	64.3	93.9	108.7	98.9
75°	69.2	44.5	29.7	19.8	19.8	29.7	39.5	64.3	93.9	103.8	84.0
77.5°	4.9	9.9	4.9	4.9	14.8	29.7	44.5	79.1	123.6	128.5	93.9
80°	4.9	4.9	0.0	4.9	14.8	29.7	49.4	89.0	138.4	148.3	79.1
82.5°	0.0	0.0	0.0	4.9	19.8	39.5	59.3	93.9	128.5	158.2	84.0
85°	0.0	0.0	0.0	4.9	29.7	54.4	69.2	24.7	14.8	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: P532371

CATALOG NUMBER: GALN-SA7D-727-U-SLR-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12633.5	12633.5	12633.5	12633.5	12633.5	12633.5	12633.5	12633.5	12633.5	12633.5	12633.5
2.5°	10626.8	10498.3	10448.9	10493.3	10478.5	10463.7	10735.5	10676.2	10666.3	10755.3	10735.5
5°	7977.5	7750.1	8372.9	8120.8	8382.8	8541.0	8570.6	8585.5	8768.3	8575.6	8827.7
7.5°	5684.1	5743.4	5738.5	5906.5	6208.0	6474.9	6633.1	6509.5	6499.6	6474.9	6366.2
10°	4542.3	4438.5	4418.8	4379.2	4473.1	4700.5	4893.3	4740.0	4631.3	4779.6	4735.1
12.5°	3712.0	3568.6	3489.5	3331.4	3336.3	3489.5	3489.5	3489.5	3598.3	3682.3	3746.6
15°	2847.0	2728.4	2728.4	2570.2	2535.6	2540.5	2619.6	2629.5	2802.5	2851.9	2876.6
17.5°	1991.9	1927.7	2001.8	2066.0	2026.5	2036.4	2066.0	2075.9	2100.6	2080.9	2130.3
20°	1532.2	1522.3	1542.1	1655.8	1739.8	1789.3	1754.7	1705.2	1675.6	1606.4	1606.4
22.5°	1299.9	1319.7	1354.3	1448.2	1556.9	1586.6	1547.1	1433.4	1344.4	1334.5	1339.5
25°	1156.6	1176.4	1230.7	1290.0	1349.4	1398.8	1359.2	1275.2	1225.8	1181.3	1181.3
27.5°	1067.6	1077.5	1107.2	1151.6	1201.1	1240.6	1225.8	1181.3	1126.9	1107.2	1062.7
30°	998.4	1013.3	1047.9	1057.7	1102.2	1122.0	1097.3	1087.4	1052.8	1028.1	1013.3
32.5°	963.8	958.9	983.6	993.5	998.4	1013.3	983.6	998.4	993.5	953.9	939.1
35°	726.6	766.1	830.4	884.7	899.6	919.3	914.4	894.6	840.3	795.8	741.4
37.5°	652.4	677.1	711.7	756.2	815.5	840.3	830.4	780.9	716.7	687.0	677.1
40°	603.0	617.8	647.5	677.1	736.5	780.9	746.3	701.9	652.4	627.7	612.9
42.5°	558.5	563.5	578.3	608.0	652.4	721.6	662.3	603.0	583.2	568.4	558.5
45°	509.1	509.1	528.9	543.7	593.1	657.4	598.1	543.7	533.8	523.9	519.0
47.5°	469.6	474.5	484.4	504.2	543.7	588.2	548.6	504.2	479.4	474.5	464.6
50°	420.1	425.1	444.8	464.6	514.0	538.8	514.0	464.6	439.9	425.1	425.1
52°	380.6	395.4	415.2	454.7	489.3	528.9	499.2	444.8	415.2	400.4	390.5
52.5°	375.6	385.5	405.3	449.8	489.3	523.9	494.3	439.9	405.3	395.4	385.5
55°	336.1	350.9	385.5	439.9	484.4	523.9	484.4	435.0	385.5	360.8	350.9
57.5°	321.3	331.2	375.6	444.8	479.4	523.9	484.4	435.0	385.5	341.0	331.2
60°	306.4	326.2	375.6	430.0	474.5	528.9	489.3	430.0	375.6	321.3	321.3
62.5°	291.6	306.4	370.7	420.1	454.7	509.1	469.6	420.1	360.8	306.4	301.5
65°	252.1	276.8	326.2	350.9	390.5	439.9	400.4	365.8	316.3	271.8	266.9
67.5°	192.8	202.7	242.2	271.8	296.6	341.0	321.3	276.8	242.2	207.6	207.6
70°	133.5	143.3	173.0	187.8	212.5	237.2	222.4	187.8	163.1	143.3	138.4
72.5°	93.9	98.9	108.7	118.6	128.5	138.4	133.5	108.7	93.9	89.0	84.0
75°	74.1	84.0	89.0	84.0	79.1	74.1	74.1	64.3	54.4	49.4	49.4
77.5°	74.1	79.1	74.1	64.3	54.4	49.4	44.5	39.5	29.7	24.7	29.7
80°	64.3	64.3	64.3	54.4	49.4	44.5	39.5	34.6	29.7	24.7	24.7
82.5°	69.2	69.2	64.3	54.4	54.4	44.5	44.5	39.5	34.6	24.7	24.7
85°	0.0	0.0	0.0	9.9	24.7	44.5	44.5	39.5	34.6	29.7	29.7
87.5°	0.0	0.0	0.0	0.0	4.9	9.9	19.8	24.7	29.7	29.7	29.7
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: P532371

CATALOG NUMBER: GALN-SA7D-727-U-SLR-GRSBK

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	12633.5	12633.5	12633.5	12633.5	12633.5	12633.5	12633.5	12633.5	12633.5	12633.5	12633.5
2.5°	10913.5	11101.3	11457.2	11813.0	12030.5	12287.5	12752.1	12999.3	13320.6	13478.7	13790.1
5°	8793.1	9237.9	9396.1	9801.4	10236.3	10671.3	11363.3	12124.4	12757.1	13192.0	13755.5
7.5°	6415.6	6519.4	7132.3	7404.2	8115.9	8906.7	9850.8	10809.7	11610.4	12322.1	12752.1
10°	4809.2	5189.8	5575.4	6094.3	6667.7	7483.2	8387.8	9445.5	10483.5	11195.2	11738.9
12.5°	3865.2	4166.7	4680.7	5239.3	5946.1	6484.8	7394.3	8442.1	9786.5	10483.5	11200.1
15°	2926.1	3311.6	3894.8	4473.1	5219.5	5787.9	6707.2	8026.9	9756.9	10715.8	11333.6
17.5°	2169.8	2431.8	2955.7	3603.2	4364.4	5165.1	6405.7	7982.4	10088.0	11229.8	11867.4
20°	1660.7	1749.7	2080.9	2659.2	3484.6	4532.4	5916.4	8175.2	11066.7	12480.3	13127.8
22.5°	1344.4	1384.0	1512.5	1912.8	2713.5	3978.9	5684.1	8308.7	12168.9	13977.9	14842.9
25°	1171.4	1161.5	1245.6	1418.6	2120.4	3459.9	5387.5	8812.8	13518.3	15737.5	16513.5
27.5°	1067.6	1067.6	1107.2	1230.7	1759.6	3123.8	5199.7	9173.6	14877.5	17284.6	17704.7
30°	1013.3	1023.1	1136.8	1176.4	1463.0	2723.4	4888.3	9539.4	16177.4	18273.1	18851.4
32.5°	939.1	899.6	874.9	973.7	1230.7	2362.6	4576.9	9692.6	17230.2	19484.1	19978.4
35°	721.6	701.9	731.5	805.7	1057.7	2056.2	4230.9	9865.6	18441.2	20887.8	20986.7
37.5°	652.4	647.5	667.3	731.5	889.7	1789.3	3983.8	9821.1	19365.5	22049.4	21782.4
40°	603.0	603.0	617.8	672.2	795.8	1601.4	3726.8	9781.6	20260.1	23354.2	22573.3
42.5°	563.5	563.5	588.2	622.8	756.2	1477.9	3534.0	9727.2	21011.4	24154.9	23037.9
45°	509.1	523.9	563.5	598.1	766.1	1393.8	3390.7	9519.6	21268.4	24145.1	22815.5
47.5°	469.6	489.3	528.9	578.3	692.0	1369.1	3291.8	9336.7	21179.4	23551.9	22118.6
50°	425.1	449.8	504.2	588.2	588.2	1319.7	3188.0	9499.9	21115.2	23092.3	21451.3
52°	395.4	415.2	484.4	573.4	514.0	1215.9	3123.8	9816.2	21377.1	23033.0	21154.7
52.5°	390.5	405.3	469.6	563.5	489.3	1196.1	3079.3	9890.3	21461.2	22884.7	21357.4
55°	346.0	365.8	430.0	439.9	400.4	983.6	2936.0	10058.4	21046.0	22593.1	21164.6
57.5°	326.2	336.1	380.6	360.8	346.0	741.4	2525.7	9796.4	18693.3	20067.3	19691.7
60°	301.5	311.4	355.9	281.7	291.6	519.0	1898.0	8506.4	15011.0	16721.1	17398.3
62.5°	291.6	286.7	336.1	227.4	247.1	375.6	1339.5	6914.8	11565.9	13765.4	14936.8
65°	257.0	252.1	242.2	192.8	212.5	291.6	800.7	4512.7	8150.5	10414.3	11056.8
67.5°	197.7	207.6	177.9	153.2	177.9	227.4	444.8	2021.6	4275.4	6247.6	6766.5
70°	138.4	148.3	143.3	133.5	158.2	187.8	257.0	692.0	1769.5	3281.9	3618.1
72.5°	84.0	103.8	108.7	113.7	138.4	163.1	182.9	222.4	469.6	1161.5	1443.3
75°	49.4	69.2	84.0	98.9	113.7	138.4	153.2	158.2	163.1	217.5	350.9
77.5°	34.6	49.4	74.1	93.9	113.7	138.4	163.1	173.0	163.1	153.2	163.1
80°	29.7	49.4	69.2	89.0	118.6	143.3	163.1	163.1	158.2	138.4	148.3
82.5°	29.7	49.4	74.1	93.9	113.7	138.4	158.2	163.1	148.3	138.4	143.3
85°	34.6	54.4	79.1	98.9	123.6	113.7	103.8	84.0	79.1	64.3	69.2
87.5°	34.6	49.4	49.4	54.4	59.3	59.3	59.3	54.4	44.5	39.5	39.5
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: P532371

CATALOG NUMBER: GALN-SA7D-727-U-SLR-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12633.5	12633.5	12633.5	12633.5	12633.5	12633.5	12633.5	12633.5	12633.5	12633.5
2.5°	13804.9	14200.4	14185.5	14195.4	14136.1	13735.7	13543.0	13053.7	13192.0	13132.7
5°	14333.8	14724.3	15060.4	15020.8	14566.1	14022.4	13216.8	12455.6	12248.0	11941.5
7.5°	13804.9	14744.1	15055.4	15011.0	14338.8	13641.8	12356.7	11595.6	11234.7	11032.1
10°	12964.7	14052.1	14437.6	14516.7	14062.0	13004.2	11822.9	10602.1	10409.3	10058.4
12.5°	12485.2	13276.1	13513.3	13725.9	13567.7	12776.9	11417.6	10246.2	9979.3	9747.0
15°	12094.8	12564.3	12663.2	12905.4	12999.3	12574.2	11630.2	10631.7	9974.4	9949.6
17.5°	12455.6	12262.8	11902.0	11976.1	12272.7	12579.2	12178.8	11392.9	10755.3	10676.2
20°	13053.7	12203.5	11388.0	11570.8	11818.0	12757.1	13009.2	12455.6	12089.8	11887.2
22.5°	13740.7	12307.3	11224.9	11313.8	11783.4	13157.4	14353.6	14047.1	13365.0	13073.4
25°	15011.0	12594.0	11353.4	11412.7	12055.2	13716.0	15569.5	15796.8	15391.5	15332.2
27.5°	16251.6	13335.4	11635.1	11501.6	12193.6	14259.7	16305.9	17526.8	16815.0	16676.6
30°	16884.2	13938.4	12055.2	11827.9	12767.0	14590.8	16750.8	18653.7	18030.9	17966.7
32.5°	17853.0	14487.0	12381.4	12089.8	13088.3	15001.1	17581.2	19884.5	19281.4	18960.2
35°	18258.3	15085.1	13098.1	12757.1	14007.6	15574.4	18006.2	20981.7	20793.9	20482.5
37.5°	19039.3	15727.7	13943.3	13923.6	15119.7	16320.8	18772.3	22474.4	22439.8	21901.1
40°	19103.5	16429.5	15277.9	15900.6	16839.8	17620.7	19444.6	22889.6	23453.1	23087.3
42.5°	19202.4	17660.2	17586.1	18100.1	18905.8	18737.8	19469.3	22988.5	23848.5	23631.0
45°	19246.8	18891.0	19933.9	20882.9	21219.0	20200.8	19237.0	22800.6	24056.1	23512.4
47.5°	18891.0	19948.7	21831.9	23665.6	23764.5	21100.4	19138.1	22607.9	24179.7	23818.8
50°	18940.4	20611.0	23472.9	25113.8	24753.0	21896.1	18984.9	22489.3	24115.4	23873.2
52°	18821.8	20625.9	23705.2	25084.2	24832.1	21456.2	18722.9	22034.5	24056.1	24229.1
52.5°	18955.2	20536.9	23463.0	25103.9	24777.7	21673.7	18688.3	22286.6	24090.7	23739.8
55°	18495.6	19479.2	22044.4	22741.3	22691.9	19671.9	17625.6	21451.3	23186.2	23191.1
57.5°	16716.2	16884.2	17289.5	17274.7	17047.3	15465.7	15075.2	19726.3	20670.3	20156.3
60°	14729.2	12361.7	11269.3	10824.5	10572.4	10315.4	13335.4	18045.8	18134.7	17917.3
62.5°	12727.4	8570.6	7117.5	6993.9	7053.2	7992.3	12890.5	17378.5	16844.7	16375.1
65°	10270.9	6247.6	5170.1	5006.9	5585.2	6598.5	10434.0	13325.5	12505.0	12114.5
67.5°	6450.2	4557.2	3494.5	3188.0	3885.0	4542.3	6855.5	8372.9	7453.6	6914.8
70°	3825.6	2545.5	1581.7	1418.6	1596.5	2421.9	3840.5	4176.6	3454.9	3178.2
72.5°	1507.5	934.2	439.9	375.6	390.5	850.1	1413.6	1379.0	1042.9	929.2
75°	405.3	281.7	153.2	123.6	103.8	158.2	227.4	148.3	54.4	69.2
77.5°	187.8	168.1	133.5	103.8	79.1	59.3	29.7	9.9	9.9	4.9
80°	163.1	143.3	123.6	103.8	79.1	49.4	24.7	4.9	4.9	4.9
82.5°	153.2	133.5	113.7	93.9	74.1	49.4	24.7	4.9	0.0	0.0
85°	64.3	84.0	93.9	89.0	79.1	49.4	24.7	4.9	0.0	0.0
87.5°	34.6	29.7	24.7	19.8	14.8	9.9	9.9	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)