

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: P529719

Luminaire Tested: **GALN-SA4D-827-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529719
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-SA4D-827-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 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: 12437 lumens
Efficiency: N/A
Efficacy: 50.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

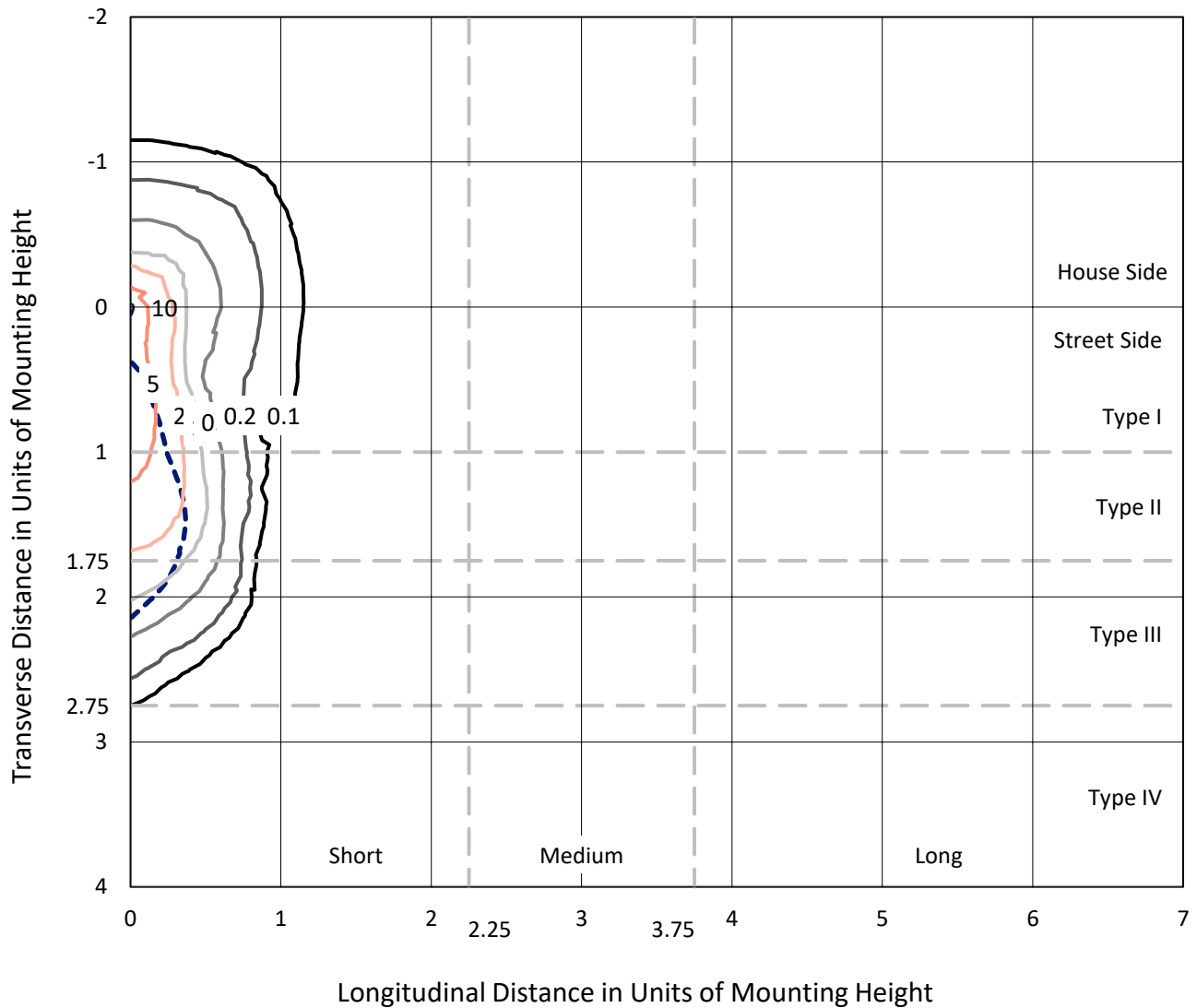
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

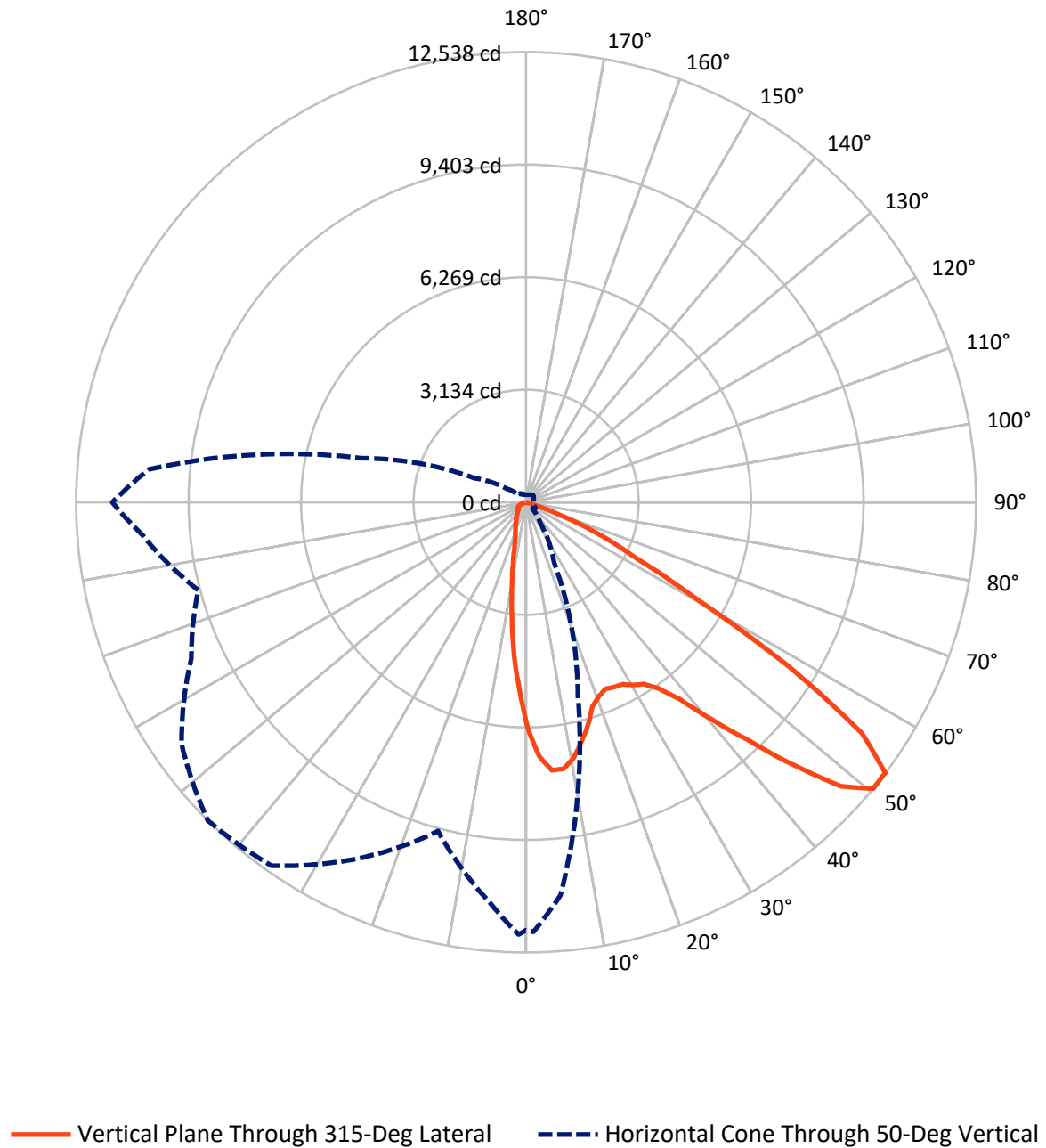
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2491.1	0.0	2491.1
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	9945.9	0.0	9945.9
	% Fixture	80.0	0.0	80.0
Total	Lumens	12437.0	0.0	12437.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	459.7	3.7
10°-20°	913.7	7.3
20°-30°	1372.6	11.0
30°-40°	2060.3	16.6
40°-50°	2895.6	23.3
50°-60°	3123.4	25.1
60°-70°	1450.2	11.7
70°-80°	136.4	1.1
80°-90°	25.1	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°	12437.0	100.0
0°-180°	12437.0	100.0

Coefficient of Utilization



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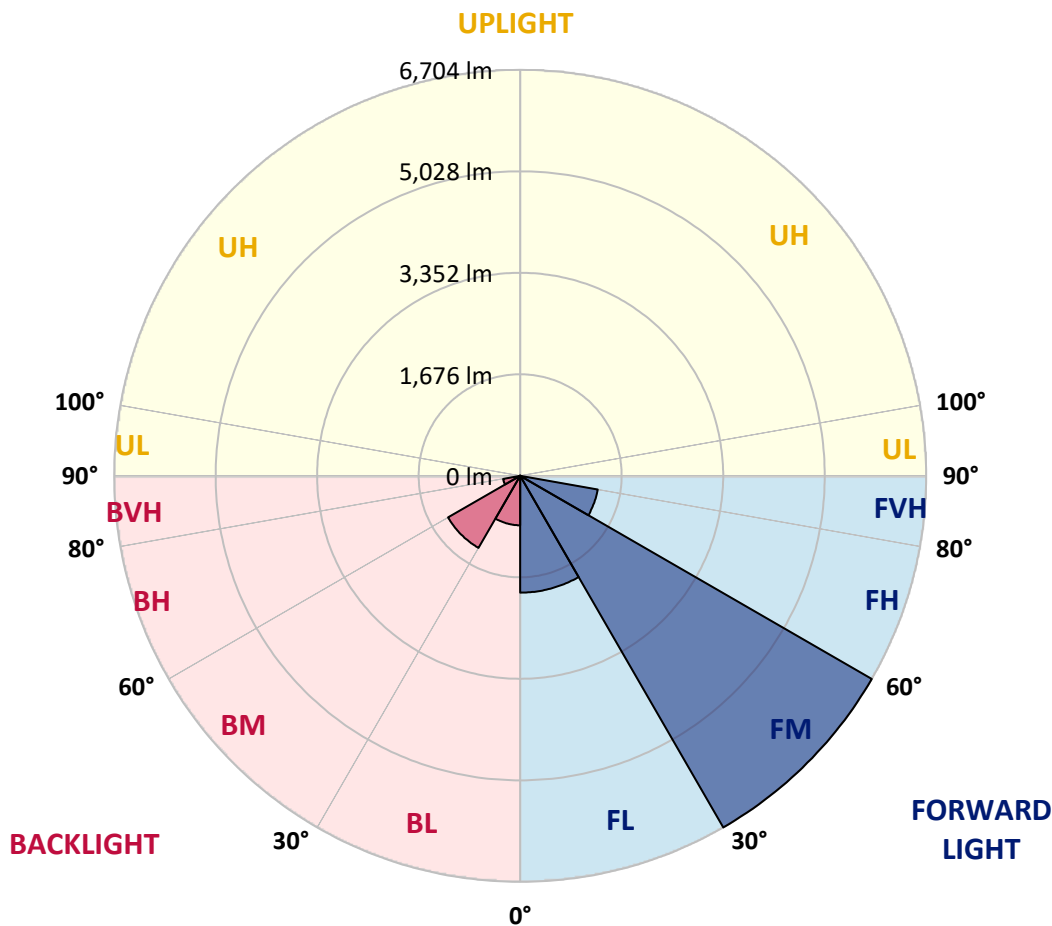
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1929.5	15.5			
FM (30°-60°)	6704.5	53.9			
FH (60°-80°)	1300.6	10.5			G1/1800
FVH (80°-90°)	11.3	0.1			G1/100
BL (0°-30°)	816.5	6.6	B2/1000		
BM (30°-60°)	1374.7	11.1	B2/2500		
BH (60°-80°)	286.0	2.3	B1/500		G1/500
BVH (80°-90°)	13.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6307.1	6307.1	6307.1	6307.1	6307.1	6307.1	6307.1	6307.1	6307.1	6307.1	6307.1
2.5°	6556.4	6455.2	6326.9	6220.8	6062.8	5744.5	5658.2	5554.5	5468.2	5352.2	5189.3
5°	5961.7	5929.6	5870.4	5470.6	5181.9	4797.0	4481.1	4347.9	4172.7	4029.6	3925.9
7.5°	5507.6	5379.3	5191.8	4789.6	4328.1	3916.0	3565.6	3360.8	3128.9	3049.9	2909.3
10°	5021.5	5051.1	4774.8	4209.7	3652.0	3318.9	3101.7	2904.3	2694.6	2556.4	2356.5
12.5°	4866.1	4769.8	4557.6	3859.3	3383.0	3072.1	2808.1	2563.8	2341.7	2119.6	1927.2
15°	4967.2	4819.2	4523.1	3785.3	3175.8	2788.4	2457.7	2127.1	1922.2	1638.5	1438.6
17.5°	5330.0	5211.5	4814.2	3864.2	3069.7	2516.9	2025.9	1685.4	1372.0	1115.3	1014.2
20°	5934.5	5766.7	5268.3	3965.4	2911.7	2188.7	1643.4	1223.9	927.8	819.2	762.5
22.5°	6526.7	6435.4	5806.2	4160.3	2771.1	1897.6	1233.8	824.2	693.4	673.6	636.6
25°	7654.4	7380.5	6627.9	4513.2	2662.5	1623.7	930.3	663.8	587.3	572.5	577.4
27.5°	8325.6	8096.1	7387.9	4747.6	2541.6	1413.9	787.2	609.5	557.7	525.6	513.3
30°	8969.6	8703.1	7765.5	4885.8	2282.5	1191.8	698.3	584.8	572.5	525.6	510.8
32.5°	9465.6	9204.1	8310.8	5093.1	2176.4	1048.7	574.9	456.5	424.4	419.5	463.9
35°	10225.6	9946.8	8777.2	5206.6	2095.0	974.7	498.5	407.2	370.1	355.3	357.8
37.5°	10933.8	10743.8	9209.0	5251.0	2008.6	952.5	446.6	365.2	333.1	323.3	320.8
40°	11526.1	11101.6	9618.6	5297.9	1971.6	910.5	414.6	333.1	310.9	296.1	296.1
42.5°	11797.5	11365.7	10077.6	5270.7	1961.7	843.9	414.6	306.0	288.7	273.9	271.4
45°	11738.3	11563.1	10282.4	5258.4	1961.7	777.3	377.5	298.6	273.9	254.2	249.2
47.5°	11891.3	11661.8	10539.0	5310.2	1922.2	730.4	318.3	313.4	259.1	234.4	229.5
50°	11918.4	11962.8	10985.7	5579.2	1835.9	671.2	249.2	308.4	249.2	212.2	207.3
52°	12096.1	11819.7	11121.4	5722.3	1744.6	626.8	209.7	264.0	239.4	197.4	192.5
52.5°	11851.8	12031.9	11153.4	5774.1	1754.4	597.2	202.3	259.1	234.4	197.4	185.1
55°	11577.9	11750.6	11022.7	5885.2	1608.9	468.8	157.9	187.5	212.2	172.7	165.3
57.5°	10062.8	10238.0	9579.1	5389.2	1310.3	330.7	130.8	140.7	187.5	160.4	153.0
60°	8945.0	8819.1	8039.4	4495.9	930.3	185.1	103.6	108.6	204.8	148.1	145.6
62.5°	8175.1	7906.1	6719.2	3471.9	567.5	123.4	81.4	83.9	157.9	138.2	138.2
65°	6048.0	5747.0	4463.8	2099.9	278.8	86.4	61.7	66.6	98.7	118.4	118.4
67.5°	3452.1	3336.2	2156.7	947.5	116.0	54.3	46.9	51.8	76.5	96.2	91.3
70°	1586.7	1423.8	829.1	199.9	54.3	37.0	37.0	41.9	61.7	71.6	66.6
72.5°	463.9	439.2	202.3	32.1	22.2	22.2	24.7	32.1	46.9	54.3	49.4
75°	34.5	22.2	14.8	9.9	9.9	14.8	19.7	32.1	46.9	51.8	41.9
77.5°	2.5	4.9	2.5	2.5	7.4	14.8	22.2	39.5	61.7	64.2	46.9
80°	2.5	2.5	0.0	2.5	7.4	14.8	24.7	44.4	69.1	74.0	39.5
82.5°	0.0	0.0	0.0	2.5	9.9	19.7	29.6	46.9	64.2	79.0	41.9
85°	0.0	0.0	0.0	2.5	14.8	27.1	34.5	12.3	7.4	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°	6307.1	6307.1	6307.1	6307.1	6307.1	6307.1	6307.1	6307.1	6307.1	6307.1	6307.1
2.5°	5305.3	5241.1	5216.5	5238.7	5231.3	5223.9	5359.6	5330.0	5325.0	5369.4	5359.6
5°	3982.7	3869.2	4180.1	4054.2	4185.0	4264.0	4278.8	4286.2	4377.5	4281.2	4407.1
7.5°	2837.7	2867.3	2864.9	2948.8	3099.3	3232.5	3311.5	3249.8	3244.9	3232.5	3178.2
10°	2267.7	2215.9	2206.0	2186.3	2233.2	2346.7	2442.9	2366.4	2312.1	2386.1	2363.9
12.5°	1853.2	1781.6	1742.1	1663.1	1665.6	1742.1	1742.1	1742.1	1796.4	1838.3	1870.4
15°	1421.3	1362.1	1362.1	1283.1	1265.9	1268.3	1307.8	1312.8	1399.1	1423.8	1436.1
17.5°	994.4	962.4	999.4	1031.4	1011.7	1016.6	1031.4	1036.4	1048.7	1038.8	1063.5
20°	764.9	760.0	769.9	826.6	868.6	893.3	876.0	851.3	836.5	802.0	802.0
22.5°	649.0	658.8	676.1	723.0	777.3	792.1	772.4	715.6	671.2	666.2	668.7
25°	577.4	587.3	614.4	644.0	673.6	698.3	678.6	636.6	612.0	589.8	589.8
27.5°	533.0	537.9	552.7	574.9	599.6	619.4	612.0	589.8	562.6	552.7	530.5
30°	498.5	505.9	523.1	528.1	550.3	560.1	547.8	542.9	525.6	513.3	505.9
32.5°	481.2	478.7	491.0	496.0	498.5	505.9	491.0	498.5	496.0	476.2	468.8
35°	362.7	382.5	414.6	441.7	449.1	459.0	456.5	446.6	419.5	397.3	370.1
37.5°	325.7	338.1	355.3	377.5	407.2	419.5	414.6	389.9	357.8	343.0	338.1
40°	301.0	308.4	323.3	338.1	367.7	389.9	372.6	350.4	325.7	313.4	306.0
42.5°	278.8	281.3	288.7	303.5	325.7	360.3	330.7	301.0	291.2	283.8	278.8
45°	254.2	254.2	264.0	271.4	296.1	328.2	298.6	271.4	266.5	261.6	259.1
47.5°	234.4	236.9	241.8	251.7	271.4	293.6	273.9	251.7	239.4	236.9	232.0
50°	209.7	212.2	222.1	232.0	256.6	269.0	256.6	232.0	219.6	212.2	212.2
52°	190.0	197.4	207.3	227.0	244.3	264.0	249.2	222.1	207.3	199.9	194.9
52.5°	187.5	192.5	202.3	224.5	244.3	261.6	246.8	219.6	202.3	197.4	192.5
55°	167.8	175.2	192.5	219.6	241.8	261.6	241.8	217.1	192.5	180.1	175.2
57.5°	160.4	165.3	187.5	222.1	239.4	261.6	241.8	217.1	192.5	170.3	165.3
60°	153.0	162.9	187.5	214.7	236.9	264.0	244.3	214.7	187.5	160.4	160.4
62.5°	145.6	153.0	185.1	209.7	227.0	254.2	234.4	209.7	180.1	153.0	150.5
65°	125.8	138.2	162.9	175.2	194.9	219.6	199.9	182.6	157.9	135.7	133.2
67.5°	96.2	101.2	120.9	135.7	148.1	170.3	160.4	138.2	120.9	103.6	103.6
70°	66.6	71.6	86.4	93.8	106.1	118.4	111.0	93.8	81.4	71.6	69.1
72.5°	46.9	49.4	54.3	59.2	64.2	69.1	66.6	54.3	46.9	44.4	41.9
75°	37.0	41.9	44.4	41.9	39.5	37.0	37.0	32.1	27.1	24.7	24.7
77.5°	37.0	39.5	37.0	32.1	27.1	24.7	22.2	19.7	14.8	12.3	14.8
80°	32.1	32.1	32.1	27.1	24.7	22.2	19.7	17.3	14.8	12.3	12.3
82.5°	34.5	34.5	32.1	27.1	27.1	22.2	22.2	19.7	17.3	12.3	12.3
85°	0.0	0.0	0.0	4.9	12.3	22.2	22.2	19.7	17.3	14.8	14.8
87.5°	0.0	0.0	0.0	0.0	2.5	4.9	9.9	12.3	14.8	14.8	14.8
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°	6307.1	6307.1	6307.1	6307.1	6307.1	6307.1	6307.1	6307.1	6307.1	6307.1	6307.1
2.5°	5448.4	5542.2	5719.8	5897.5	6006.1	6134.4	6366.3	6489.7	6650.1	6729.1	6884.5
5°	4389.8	4611.9	4690.9	4893.2	5110.4	5327.5	5673.0	6053.0	6368.8	6586.0	6867.3
7.5°	3202.9	3254.7	3560.7	3696.4	4051.8	4446.6	4917.9	5396.6	5796.3	6151.7	6366.3
10°	2401.0	2591.0	2783.4	3042.5	3328.8	3735.9	4187.5	4715.5	5233.7	5589.1	5860.5
12.5°	1929.6	2080.2	2336.8	2615.6	2968.5	3237.5	3691.5	4214.6	4885.8	5233.7	5591.5
15°	1460.8	1653.3	1944.5	2233.2	2605.8	2889.5	3348.5	4007.3	4871.0	5349.7	5658.2
17.5°	1083.3	1214.0	1475.6	1798.9	2178.9	2578.6	3198.0	3985.1	5036.3	5606.3	5924.7
20°	829.1	873.5	1038.8	1327.6	1739.6	2262.8	2953.7	4081.4	5524.9	6230.6	6553.9
22.5°	671.2	690.9	755.1	955.0	1354.7	1986.4	2837.7	4148.0	6075.2	6978.3	7410.1
25°	584.8	579.9	621.8	708.2	1058.6	1727.3	2689.7	4399.7	6748.8	7856.8	8244.2
27.5°	533.0	533.0	552.7	614.4	878.5	1559.5	2595.9	4579.8	7427.4	8629.1	8838.9
30°	505.9	510.8	567.5	587.3	730.4	1359.6	2440.4	4762.4	8076.4	9122.6	9411.3
32.5°	468.8	449.1	436.8	486.1	614.4	1179.5	2285.0	4838.9	8602.0	9727.2	9973.9
35°	360.3	350.4	365.2	402.2	528.1	1026.5	2112.2	4925.3	9206.5	10428.0	10477.3
37.5°	325.7	323.3	333.1	365.2	444.2	893.3	1988.9	4903.1	9668.0	11007.9	10874.6
40°	301.0	301.0	308.4	335.6	397.3	799.5	1860.6	4883.3	10114.6	11659.3	11269.4
42.5°	281.3	281.3	293.6	310.9	377.5	737.8	1764.3	4856.2	10489.7	12059.0	11501.4
45°	254.2	261.6	281.3	298.6	382.5	695.9	1692.8	4752.6	10618.0	12054.1	11390.3
47.5°	234.4	244.3	264.0	288.7	345.5	683.5	1643.4	4661.3	10573.6	11758.0	11042.4
50°	212.2	224.5	251.7	293.6	293.6	658.8	1591.6	4742.7	10541.5	11528.5	10709.3
52°	197.4	207.3	241.8	286.2	256.6	607.0	1559.5	4900.6	10672.3	11498.9	10561.2
52.5°	194.9	202.3	234.4	281.3	244.3	597.2	1537.3	4937.6	10714.2	11424.9	10662.4
55°	172.7	182.6	214.7	219.6	199.9	491.0	1465.7	5021.5	10506.9	11279.3	10566.2
57.5°	162.9	167.8	190.0	180.1	172.7	370.1	1260.9	4890.7	9332.4	10018.4	9830.8
60°	150.5	155.5	177.7	140.7	145.6	259.1	947.5	4246.7	7494.0	8347.8	8685.9
62.5°	145.6	143.1	167.8	113.5	123.4	187.5	668.7	3452.1	5774.1	6872.2	7457.0
65°	128.3	125.8	120.9	96.2	106.1	145.6	399.7	2252.9	4069.0	5199.2	5520.0
67.5°	98.7	103.6	88.8	76.5	88.8	113.5	222.1	1009.2	2134.5	3119.0	3378.1
70°	69.1	74.0	71.6	66.6	79.0	93.8	128.3	345.5	883.4	1638.5	1806.3
72.5°	41.9	51.8	54.3	56.8	69.1	81.4	91.3	111.0	234.4	579.9	720.5
75°	24.7	34.5	41.9	49.4	56.8	69.1	76.5	79.0	81.4	108.6	175.2
77.5°	17.3	24.7	37.0	46.9	56.8	69.1	81.4	86.4	81.4	76.5	81.4
80°	14.8	24.7	34.5	44.4	59.2	71.6	81.4	81.4	79.0	69.1	74.0
82.5°	14.8	24.7	37.0	46.9	56.8	69.1	79.0	81.4	74.0	69.1	71.6
85°	17.3	27.1	39.5	49.4	61.7	56.8	51.8	41.9	39.5	32.1	34.5
87.5°	17.3	24.7	24.7	27.1	29.6	29.6	29.6	27.1	22.2	19.7	19.7
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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CATALOG NUMBER: GALN-SA4D-827-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6307.1	6307.1	6307.1	6307.1	6307.1	6307.1	6307.1	6307.1	6307.1	6307.1
2.5°	6891.9	7089.3	7081.9	7086.9	7057.3	6857.4	6761.2	6516.9	6586.0	6556.4
5°	7156.0	7350.9	7518.7	7499.0	7271.9	7000.5	6598.3	6218.3	6114.7	5961.7
7.5°	6891.9	7360.8	7516.2	7494.0	7158.4	6810.5	6168.9	5788.9	5608.8	5507.6
10°	6472.5	7015.3	7207.8	7247.3	7020.3	6492.2	5902.4	5293.0	5196.7	5021.5
12.5°	6233.1	6627.9	6746.4	6852.5	6773.5	6378.7	5700.1	5115.3	4982.0	4866.1
15°	6038.2	6272.6	6321.9	6442.8	6489.7	6277.5	5806.2	5307.8	4979.6	4967.2
17.5°	6218.3	6122.1	5941.9	5978.9	6127.0	6280.0	6080.1	5687.8	5369.4	5330.0
20°	6516.9	6092.4	5685.3	5776.6	5900.0	6368.8	6494.7	6218.3	6035.7	5934.5
22.5°	6859.9	6144.3	5603.9	5648.3	5882.7	6568.7	7165.8	7012.9	6672.3	6526.7
25°	7494.0	6287.4	5668.0	5697.6	6018.4	6847.5	7772.9	7886.4	7684.0	7654.4
27.5°	8113.4	6657.5	5808.7	5742.1	6087.5	7119.0	8140.5	8750.0	8394.7	8325.6
30°	8429.2	6958.6	6018.4	5904.9	6373.8	7284.3	8362.6	9312.6	9001.7	8969.6
32.5°	8912.9	7232.5	6181.3	6035.7	6534.1	7489.1	8777.2	9927.1	9626.0	9465.6
35°	9115.2	7531.0	6539.1	6368.8	6993.1	7775.3	8989.4	10474.9	10381.1	10225.6
37.5°	9505.1	7851.8	6961.0	6951.2	7548.3	8147.9	9371.9	11220.1	11202.8	10933.8
40°	9537.2	8202.2	7627.3	7938.2	8407.0	8796.9	9707.4	11427.3	11708.7	11526.1
42.5°	9586.5	8816.7	8779.6	9036.3	9438.5	9354.6	9719.8	11476.7	11906.1	11797.5
45°	9608.7	9431.1	9951.7	10425.5	10593.3	10085.0	9603.8	11382.9	12009.7	11738.3
47.5°	9431.1	9959.1	10899.3	11814.8	11864.1	10534.1	9554.5	11286.7	12071.4	11891.3
50°	9455.8	10289.8	11718.5	12537.8	12357.6	10931.4	9478.0	11227.5	12039.3	11918.4
52°	9396.5	10297.2	11834.5	12523.0	12397.1	10711.8	9347.2	11000.5	12009.7	12096.1
52.5°	9463.2	10252.8	11713.6	12532.8	12370.0	10820.3	9329.9	11126.3	12027.0	11851.8
55°	9233.7	9724.7	11005.4	11353.3	11328.6	9821.0	8799.4	10709.3	11575.4	11577.9
57.5°	8345.3	8429.2	8631.6	8624.2	8510.7	7721.0	7526.1	9848.1	10319.4	10062.8
60°	7353.4	6171.4	5626.1	5404.0	5278.1	5149.8	6657.5	9009.1	9053.5	8945.0
62.5°	6354.0	4278.8	3553.3	3491.6	3521.2	3990.1	6435.4	8676.0	8409.5	8175.1
65°	5127.6	3119.0	2581.1	2499.7	2788.4	3294.2	5209.1	6652.6	6243.0	6048.0
67.5°	3220.2	2275.1	1744.6	1591.6	1939.5	2267.7	3422.5	4180.1	3721.1	3452.1
70°	1909.9	1270.8	789.6	708.2	797.0	1209.1	1917.3	2085.1	1724.8	1586.7
72.5°	752.6	466.4	219.6	187.5	194.9	424.4	705.7	688.5	520.7	463.9
75°	202.3	140.7	76.5	61.7	51.8	79.0	113.5	74.0	27.1	34.5
77.5°	93.8	83.9	66.6	51.8	39.5	29.6	14.8	4.9	4.9	2.5
80°	81.4	71.6	61.7	51.8	39.5	24.7	12.3	2.5	2.5	2.5
82.5°	76.5	66.6	56.8	46.9	37.0	24.7	12.3	2.5	0.0	0.0
85°	32.1	41.9	46.9	44.4	39.5	24.7	12.3	2.5	0.0	0.0
87.5°	17.3	14.8	12.3	9.9	7.4	4.9	4.9	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)