

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: P451972

Luminaire Tested: **GALN-SA2D-827-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451972  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2D-827-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9858 lumens  
Efficiency: N/A  
Efficacy: 78.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G3

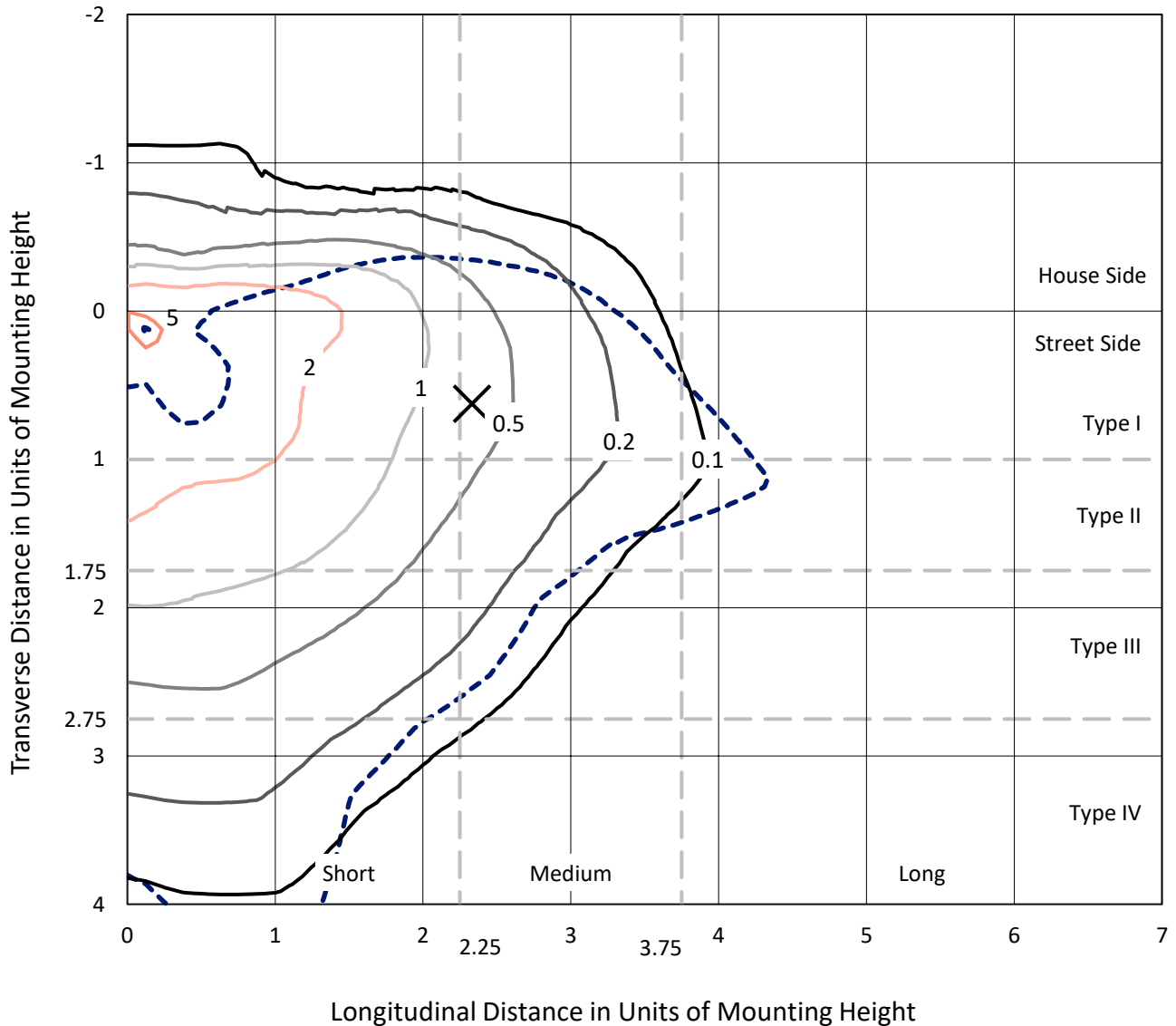
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

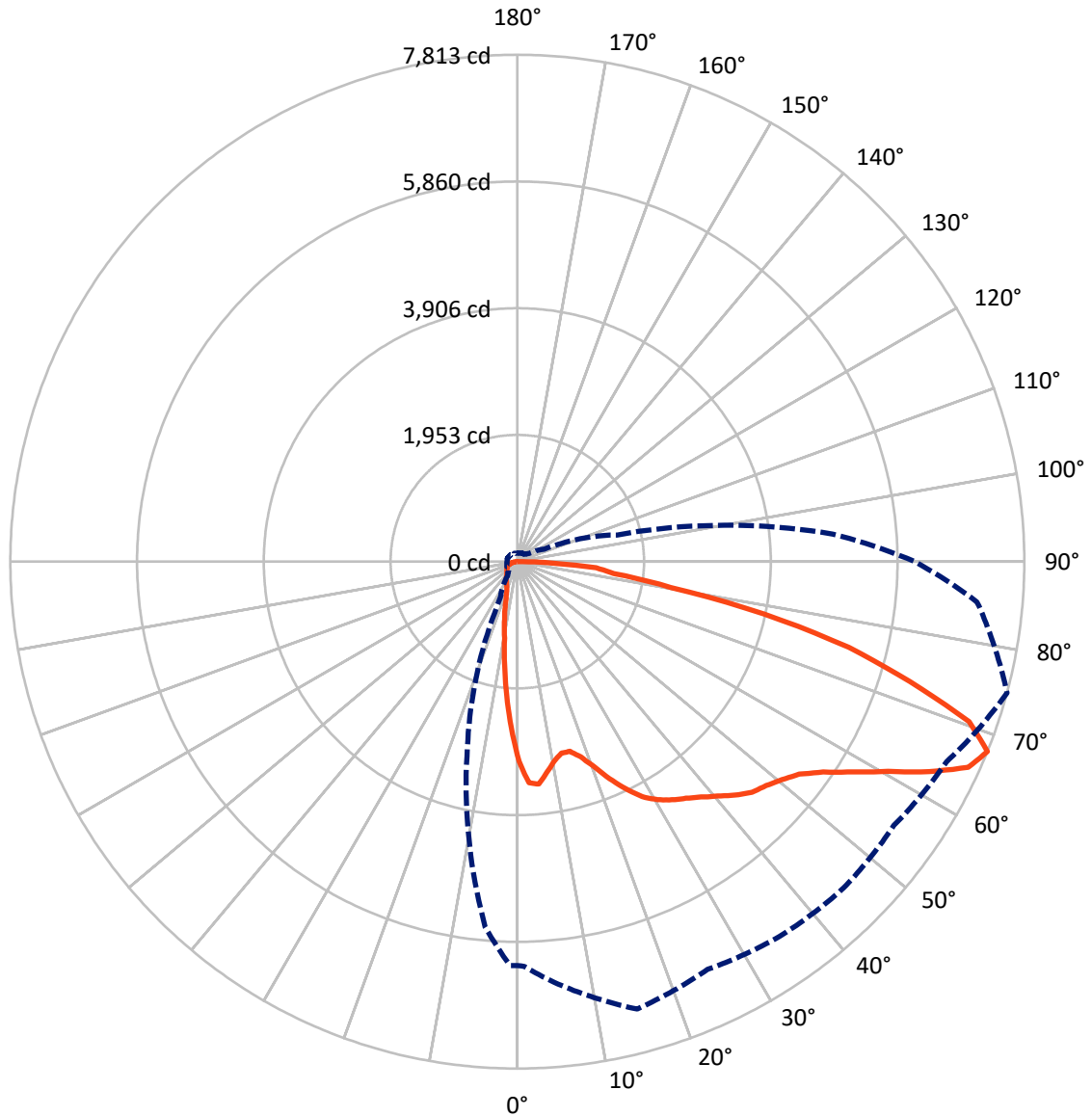
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1666.2	0.0	1666.2
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	8191.8	0.0	8191.8
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	9858.0	0.0	9858.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	233.6	2.4
10°-20°	487.2	4.9
20°-30°	701.1	7.1
30°-40°	1009.7	10.2
40°-50°	1418.4	14.4
50°-60°	1978.1	20.1
60°-70°	2351.9	23.9
70°-80°	1385.1	14.1
80°-90°	292.9	3.0
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°	9858.0	100.0
0°-180°	9858.0	100.0



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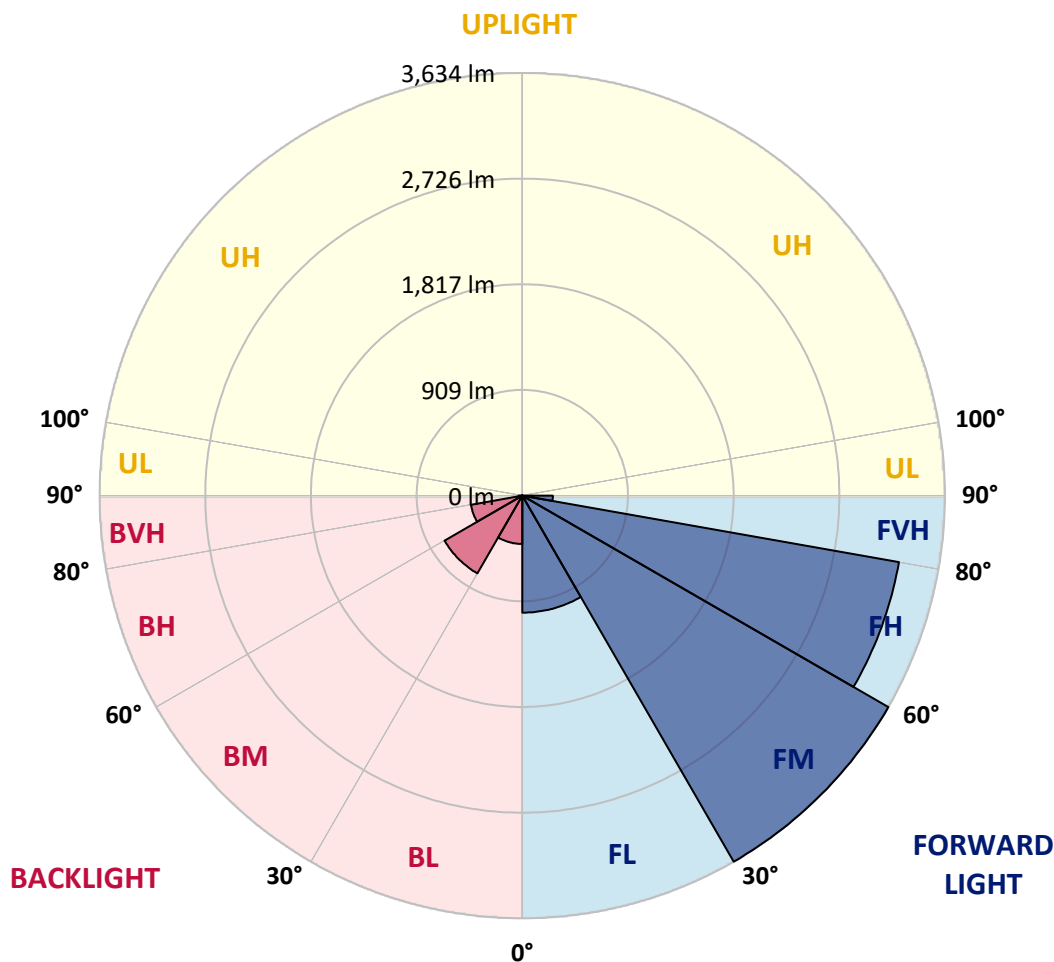
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1006.2	10.2			
FM	(30°-60°)	3634.3	36.9			
FH	(60°-80°)	3288.7	33.4			G2/5000
FVH	(80°-90°)	262.6	2.7			G3/500
BL	(0°-30°)	415.6	4.2	B1/500		
BM	(30°-60°)	772.0	7.8	B1/1000		
BH	(60°-80°)	448.3	4.5	B1/500		G1/500
BVH	(80°-90°)	30.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3079.9	3079.9	3079.9	3079.9	3079.9	3079.9	3079.9	3079.9	3079.9	3079.9	3079.9
2.5°	3320.7	3325.1	3353.6	3436.4	3493.3	3514.2	3528.7	3501.5	3475.0	3410.5	3313.1
5°	3310.6	3336.5	3410.5	3596.3	3743.0	3806.2	3825.2	3743.6	3609.0	3443.4	3244.2
7.5°	3117.2	3151.9	3265.7	3577.4	3835.9	3983.9	3964.3	3817.0	3574.2	3279.0	3000.9
10°	2887.7	2926.3	3063.4	3440.2	3773.3	3976.9	3976.9	3797.4	3475.0	3124.1	2803.6
12.5°	2705.6	2746.1	2902.9	3299.2	3643.1	3835.9	3868.2	3713.9	3403.5	3026.1	2674.0
15°	2645.6	2684.8	2853.6	3213.9	3505.3	3622.9	3633.6	3583.1	3368.8	3033.1	2668.3
17.5°	2720.2	2770.7	2941.4	3239.2	3378.9	3385.8	3394.1	3433.9	3372.6	3160.2	2783.4
20°	2935.7	2990.1	3168.4	3320.7	3268.3	3196.2	3200.6	3303.0	3417.4	3370.0	3058.4
22.5°	3246.8	3294.2	3476.9	3464.2	3221.5	3072.9	3041.9	3184.8	3483.8	3631.7	3351.1
25°	3582.4	3638.1	3847.9	3677.3	3234.8	2999.6	2980.0	3115.3	3552.7	3876.4	3689.3
27.5°	3966.8	4021.2	4186.8	3892.2	3304.3	2993.9	2970.5	3109.0	3614.7	4102.7	4012.3
30°	4252.5	4302.5	4415.0	4073.0	3389.6	3031.8	3002.7	3158.9	3667.8	4257.6	4327.1
32.5°	4476.9	4528.8	4590.1	4185.5	3502.2	3100.7	3047.0	3249.9	3737.3	4375.8	4560.4
35°	4710.8	4772.2	4767.7	4285.4	3607.1	3180.4	3127.9	3381.4	3846.7	4478.8	4856.2
37.5°	5007.3	5032.0	5000.4	4375.2	3732.9	3323.9	3294.8	3576.7	4002.2	4603.4	5202.0
40°	5308.2	5357.5	5195.1	4483.9	3885.9	3593.8	3590.7	3865.6	4186.8	4749.4	5537.1
42.5°	5566.1	5607.9	5377.1	4578.7	4071.1	3923.2	3947.2	4253.2	4428.9	4918.8	5806.4
45°	5760.2	5797.5	5545.3	4670.4	4315.1	4303.7	4445.3	4668.5	4734.2	5071.2	5964.4
47.5°	5925.2	5961.2	5662.2	4809.5	4616.6	4758.3	5004.8	5101.5	4995.3	5158.4	6141.4
50°	6064.3	6075.0	5742.5	4975.1	4990.9	5315.2	5554.1	5616.7	5253.2	5283.6	6295.0
52.5°	6209.1	6195.1	5881.0	5183.7	5395.5	5843.7	6017.5	6082.6	5500.4	5437.8	6518.8
55°	6533.4	6546.6	6191.4	5446.7	5804.5	6362.7	6591.5	6528.9	5774.1	5721.7	6803.3
57.5°	6925.3	6913.9	6628.2	5858.2	6221.1	6845.6	7016.3	6915.8	6139.5	6111.7	7091.5
60°	7077.6	7092.8	6993.6	6300.7	6632.0	7268.5	7443.0	7286.9	6577.6	6565.0	7309.0
62.5°	6924.7	7010.0	7077.0	6694.6	6982.2	7579.6	7752.8	7574.5	7034.7	7126.3	7461.4
65°	6620.0	6638.3	6866.5	7028.3	7151.0	7630.8	7721.2	7626.4	7416.5	7637.7	7454.4
67.5°	6224.2	6240.0	6507.4	7137.7	6933.5	7049.2	7112.4	7084.6	7298.3	7812.8	7111.1
70°	5847.5	5834.8	6117.4	6858.9	6035.8	5860.1	5912.6	5825.3	6297.6	7384.9	6437.9
72.5°	5114.2	5159.7	5463.1	6083.9	4779.1	4493.4	4607.8	4382.1	4843.6	6324.7	5225.4
75°	4006.0	4016.7	4523.1	5105.9	3605.2	3154.5	3309.3	3215.2	3710.1	5276.0	3608.4
77.5°	2773.9	2749.9	3294.2	3899.8	2571.0	2309.3	2311.8	2266.9	2590.6	3884.6	2451.5
80°	1761.8	1725.2	2062.1	2409.2	1766.9	1890.2	1828.2	1826.3	1686.6	2396.5	1482.4
82.5°	952.0	992.5	1302.9	1510.2	1267.5	1460.9	1338.9	1299.7	1157.5	1500.1	948.2
85°	433.7	471.6	694.7	1027.3	962.8	973.5	650.5	767.4	957.7	1218.2	506.4
87.5°	42.4	54.4	143.5	484.9	328.7	259.2	96.7	186.5	240.9	433.0	40.5
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°	3079.9	3079.9	3079.9	3079.9	3079.9	3079.9	3079.9	3079.9	3079.9	3079.9	3079.9
2.5°	3273.3	3240.4	3128.5	3036.3	2938.3	2863.7	2766.3	2701.2	2656.3	2588.7	2580.5
5°	3122.9	3042.6	2847.9	2649.4	2478.1	2349.1	2218.2	2098.1	2027.3	2005.2	1976.8
7.5°	2869.4	2734.1	2483.7	2256.2	2059.6	1867.4	1719.5	1614.5	1544.4	1503.3	1454.0
10°	2660.8	2504.0	2199.3	1920.5	1758.7	1639.2	1509.0	1396.4	1309.8	1235.9	1195.4
12.5°	2520.4	2343.4	2000.8	1774.5	1649.3	1522.2	1369.9	1243.5	1115.8	1031.7	995.6
15°	2478.1	2290.9	1939.5	1701.8	1522.2	1356.0	1185.3	1020.3	893.9	814.2	787.7
17.5°	2581.7	2355.4	1938.8	1605.0	1373.0	1174.5	955.8	800.9	671.4	611.9	593.0
20°	2775.2	2479.3	1944.5	1509.6	1211.2	931.8	695.4	568.3	506.4	481.1	471.6
22.5°	3045.1	2668.3	1961.6	1415.4	1034.2	715.6	520.9	456.4	434.3	429.9	428.0
25°	3377.6	2902.2	2019.1	1330.7	885.0	546.2	435.6	406.5	393.8	389.4	388.8
27.5°	3683.6	3204.4	2088.6	1258.0	740.9	471.0	393.8	369.2	356.5	355.9	357.2
30°	3959.8	3457.3	2146.8	1176.4	631.5	418.5	366.7	342.0	330.0	329.4	333.1
32.5°	4198.8	3665.3	2189.8	1096.2	570.8	386.2	342.0	315.4	305.3	303.4	305.3
35°	4454.2	3872.6	2170.2	1033.6	536.1	359.7	323.7	297.7	285.7	280.0	280.0
37.5°	4745.6	4086.3	2136.7	981.7	520.3	337.6	307.9	282.6	270.6	264.9	264.2
40°	5063.6	4299.9	2090.5	935.6	504.5	324.3	297.1	270.6	256.0	250.3	249.1
42.5°	5344.3	4482.6	2052.6	905.2	478.5	326.8	287.6	261.7	243.4	235.8	235.2
45°	5588.3	4666.6	2045.7	887.5	457.1	323.0	285.1	254.8	233.3	225.0	223.8
47.5°	5779.2	4858.1	2085.5	877.4	433.7	302.8	301.5	250.3	224.4	215.6	214.3
50°	6011.8	5130.0	2176.5	856.6	412.2	283.8	318.6	249.7	217.5	206.1	202.9
52.5°	6321.6	5484.0	2299.8	819.3	381.2	266.1	304.1	249.7	209.2	197.9	194.1
55°	6790.0	5935.3	2420.5	766.8	337.6	242.7	274.4	242.1	197.2	187.1	184.6
57.5°	7100.4	6265.3	2497.7	694.1	283.2	225.7	236.4	230.1	185.2	174.5	174.5
60°	7116.2	6353.8	2461.0	602.4	249.1	209.9	205.5	232.0	174.5	163.1	161.8
62.5°	6934.1	6137.0	2270.1	520.3	230.7	192.8	185.9	203.6	163.7	152.4	150.5
65°	6649.7	5583.8	1938.8	481.1	220.6	177.6	167.5	166.9	152.4	141.6	139.1
67.5°	6126.9	4879.6	1593.0	458.3	215.6	160.6	151.1	147.9	139.1	130.2	129.0
70°	5356.3	4086.9	1277.6	448.8	213.0	142.9	135.3	131.5	123.9	116.9	116.3
72.5°	4167.2	3315.0	1054.4	442.5	211.8	126.4	118.2	113.2	108.7	102.4	102.4
75°	2993.3	2438.9	804.7	398.9	196.0	108.7	99.9	96.7	90.4	85.3	86.6
77.5°	1887.0	1642.3	529.7	293.3	151.7	87.2	79.7	77.8	72.7	65.7	70.2
80°	1274.4	1155.0	309.1	184.6	95.5	63.8	61.3	60.7	55.0	47.4	48.0
82.5°	867.3	850.9	160.6	104.9	55.0	37.3	36.0	37.3	31.0	25.3	25.3
85°	338.8	462.7	75.9	41.1	17.7	5.7	8.2	8.9	5.1	2.5	3.2
87.5°	6.3	47.4	1.9	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°	3079.9	3079.9	3079.9	3079.9	3079.9	3079.9	3079.9	3079.9	3079.9	3079.9	3079.9
2.5°	2567.8	2562.1	2571.6	2531.2	2539.4	2554.5	2562.1	2566.6	2629.1	2614.6	2654.4
5°	2003.3	1997.6	2034.3	2039.3	2058.3	2054.5	2072.8	2077.3	2100.0	2108.2	2163.9
7.5°	1457.1	1481.8	1523.5	1545.0	1577.2	1587.3	1577.9	1601.3	1553.8	1588.0	1598.1
10°	1170.8	1141.0	1123.3	1172.7	1179.0	1225.8	1206.8	1191.6	1219.4	1220.7	1247.2
12.5°	974.8	910.9	868.6	882.5	897.7	917.9	921.1	951.4	971.6	990.6	1006.4
15°	764.3	742.2	703.6	684.6	706.1	714.3	733.9	759.2	780.7	786.4	807.9
17.5°	586.6	590.4	584.1	572.7	586.0	592.3	593.6	594.2	599.9	596.1	627.7
20°	472.2	485.5	501.3	503.8	508.3	511.4	505.7	484.2	484.9	498.1	508.3
22.5°	427.3	429.9	447.6	453.3	467.2	461.5	445.0	434.9	433.7	436.8	441.9
25°	391.9	395.7	408.4	417.2	428.0	417.9	405.8	396.4	395.1	398.3	403.3
27.5°	360.3	366.0	377.4	386.2	396.4	386.9	375.5	367.3	366.7	366.0	369.2
30°	335.0	341.4	349.6	359.7	366.7	358.4	347.7	343.3	342.6	341.4	342.6
32.5°	309.8	319.9	328.1	333.1	340.1	333.8	325.6	323.0	318.6	314.8	312.9
35°	281.3	292.1	304.7	311.0	318.0	311.7	306.0	295.2	287.6	287.0	288.3
37.5°	264.9	269.3	279.4	290.2	297.1	294.0	283.2	272.5	270.6	270.6	271.8
40°	250.3	252.2	256.7	270.6	283.2	273.7	260.4	257.3	257.3	256.7	257.3
42.5°	235.8	237.7	237.7	248.4	268.7	253.5	243.4	243.4	243.4	244.0	245.9
45°	222.5	223.2	222.5	230.1	249.1	236.4	229.5	231.4	232.6	233.9	235.2
47.5°	211.1	211.8	211.1	217.5	226.9	221.9	218.1	220.6	223.2	225.0	226.3
50°	201.0	200.4	201.7	205.5	209.9	211.1	208.6	212.4	213.7	216.2	219.4
52.5°	192.2	191.5	192.8	194.7	201.0	201.0	201.0	204.2	206.7	209.2	213.7
55°	182.1	182.7	184.6	187.1	195.3	194.1	194.7	197.2	199.8	203.6	206.1
57.5°	172.6	173.8	176.4	180.2	188.4	187.8	188.4	189.6	192.8	194.7	197.2
60°	161.8	164.4	167.5	170.1	178.3	177.6	180.8	183.3	185.2	185.2	186.5
62.5°	151.1	154.9	158.0	159.9	168.8	169.4	173.8	175.7	177.0	175.7	177.6
65°	140.3	146.0	147.3	149.8	158.7	159.3	164.4	168.8	167.5	166.3	169.4
67.5°	129.6	136.5	135.9	139.1	147.9	149.2	153.6	161.2	158.7	157.4	159.9
70°	117.6	122.6	123.3	125.2	137.2	135.3	142.2	149.2	147.3	147.9	147.9
72.5°	104.3	108.7	108.7	112.5	125.2	122.0	127.7	135.3	135.3	134.6	134.6
75°	88.5	91.0	93.6	99.2	112.5	108.7	112.5	119.5	120.7	119.5	119.5
77.5°	71.4	75.2	76.5	84.1	93.6	92.9	96.7	99.9	102.4	101.1	101.1
80°	50.6	54.4	59.4	67.6	73.3	75.2	77.1	79.7	80.9	80.9	82.2
82.5°	28.4	34.1	38.6	46.8	49.3	58.8	58.2	60.1	58.2	51.2	56.9
85°	6.3	12.0	17.1	21.5	24.7	34.1	36.0	40.5	33.5	31.0	31.0
87.5°	0.0	0.0	0.0	0.0	0.0	5.1	10.1	13.9	12.0	10.1	10.1
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-SA2D-827-U-SLL

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3079.9	3079.9	3079.9	3079.9	3079.9	3079.9	3079.9	3079.9	3079.9	3079.9
2.5°	2687.9	2742.9	2809.3	2923.7	3004.0	3090.6	3177.9	3270.8	3295.4	3320.7
5°	2179.0	2287.1	2345.9	2499.6	2660.8	2865.6	3033.1	3216.4	3292.9	3310.6
7.5°	1650.6	1723.9	1878.1	2033.7	2233.4	2448.3	2705.0	2990.7	3079.9	3117.2
10°	1308.6	1408.4	1543.7	1710.6	1885.7	2117.1	2406.6	2740.4	2866.8	2887.7
12.5°	1113.9	1225.1	1372.4	1548.8	1714.4	1888.9	2180.9	2525.5	2660.8	2705.6
15°	890.7	1025.4	1195.4	1381.3	1561.4	1752.3	2048.2	2437.0	2593.1	2645.6
17.5°	699.8	808.5	992.5	1194.1	1407.8	1649.3	2020.4	2479.3	2671.5	2720.2
20°	535.4	613.2	768.1	981.1	1231.4	1547.5	2027.3	2639.3	2869.4	2935.7
22.5°	462.7	502.6	596.8	799.7	1079.7	1459.0	2055.8	2858.6	3136.1	3246.8
25°	419.1	440.0	493.1	625.8	935.0	1373.0	2120.9	3153.8	3509.1	3582.4
27.5°	381.8	397.0	429.9	525.3	803.5	1293.4	2196.7	3481.3	3857.4	3966.8
30°	346.4	366.7	397.6	466.5	719.4	1220.7	2292.2	3746.8	4150.7	4252.5
32.5°	319.2	339.5	367.9	425.4	648.0	1144.2	2349.1	3980.1	4390.3	4476.9
35°	297.1	314.2	343.9	392.6	593.6	1086.0	2337.7	4165.3	4622.3	4710.8
37.5°	281.3	295.8	325.6	361.6	552.5	1025.4	2332.0	4409.9	4904.9	5007.3
40°	266.8	281.9	309.1	341.4	511.4	953.9	2335.2	4652.7	5205.8	5308.2
42.5°	255.4	272.5	294.6	335.7	469.1	896.4	2335.2	4863.8	5467.5	5566.1
45°	245.9	264.2	285.7	335.0	435.6	852.8	2319.4	5045.3	5676.1	5760.2
47.5°	237.7	257.9	288.9	323.7	427.3	821.2	2305.5	5190.6	5846.2	5925.2
50°	232.0	256.0	307.2	310.4	429.9	811.7	2372.5	5374.0	5996.0	6064.3
52.5°	227.6	256.7	306.6	290.8	425.4	818.0	2512.2	5660.3	6204.0	6209.1
55°	218.7	256.0	290.8	268.7	407.1	828.8	2691.7	6076.3	6529.6	6533.4
57.5°	209.9	249.1	269.9	249.7	369.8	828.8	2907.9	6470.1	6922.1	6925.3
60°	201.0	259.2	237.1	233.3	321.1	813.6	3136.1	6643.3	7045.4	7077.6
62.5°	192.2	261.1	211.8	218.7	285.7	776.9	3306.2	6451.8	6878.5	6924.7
65°	182.1	210.5	195.3	203.6	267.4	715.6	3252.5	6101.0	6565.0	6620.0
67.5°	170.1	178.3	177.6	187.8	261.1	625.2	2969.2	5657.2	6227.4	6224.2
70°	155.5	159.9	161.8	172.6	249.1	555.0	2474.3	5081.3	5776.7	5847.5
72.5°	140.3	144.1	146.0	155.5	237.1	515.2	1920.5	4287.9	5003.5	5114.2
75°	123.9	126.4	129.0	137.2	224.4	456.4	1368.0	3273.3	3832.1	4006.0
77.5°	106.8	106.8	110.0	118.2	189.0	376.8	917.9	2296.0	2596.3	2773.9
80°	86.6	87.2	86.0	94.8	139.1	257.9	521.5	1533.6	1727.7	1761.8
82.5°	66.4	64.5	65.1	69.5	103.7	175.7	278.1	952.7	971.0	952.0
85°	41.7	41.7	40.5	45.5	66.4	91.7	151.7	583.5	455.8	433.7
87.5°	17.1	13.9	15.8	18.3	31.6	37.3	59.4	120.1	46.1	42.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)