

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: P452435

Luminaire Tested: **GALN-SA3B-827-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452435  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3B-827-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8968 lumens  
Efficiency: N/A  
Efficacy: 74.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

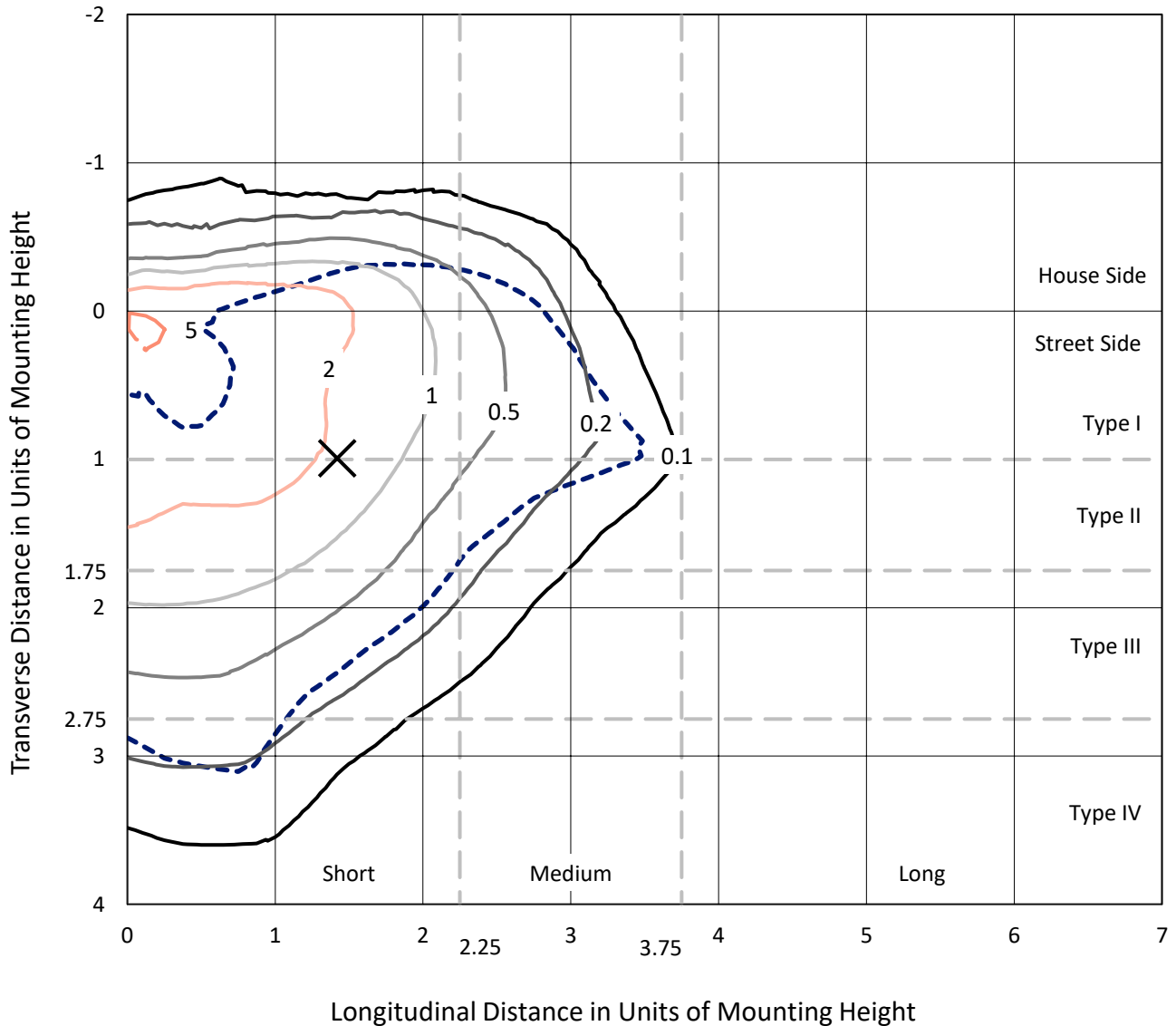
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

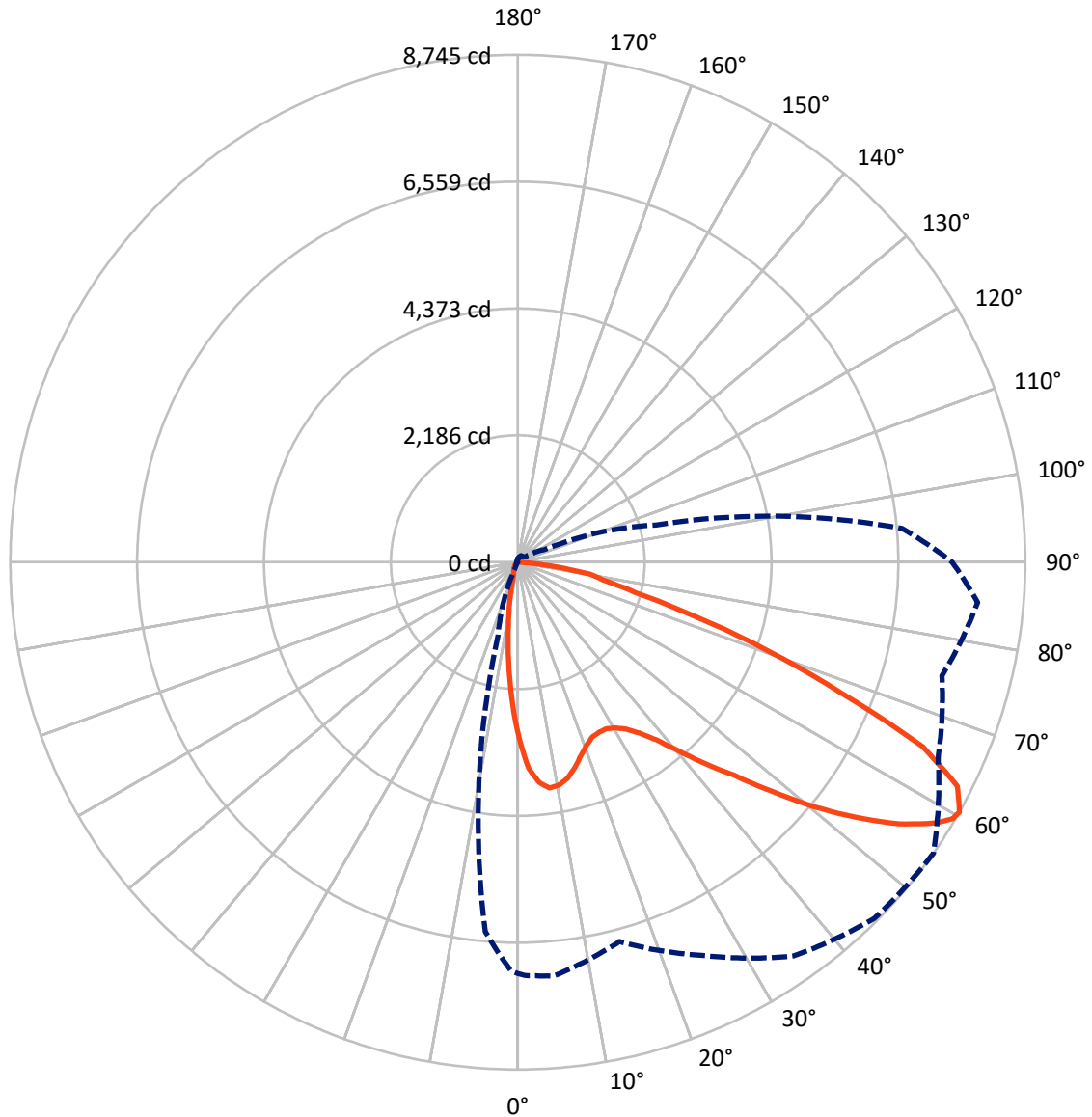
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1330.9	0.0	1330.9
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	7637.1	0.0	7637.1
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	8968.0	0.0	8968.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	224.9	2.5
10°-20°	442.8	4.9
20°-30°	655.4	7.3
30°-40°	977.0	10.9
40°-50°	1430.8	16.0
50°-60°	2065.6	23.0
60°-70°	2172.9	24.2
70°-80°	893.9	10.0
80°-90°	104.7	1.2
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°	8968.0	100.0
0°-180°	8968.0	100.0

**Coefficient of Utilization**



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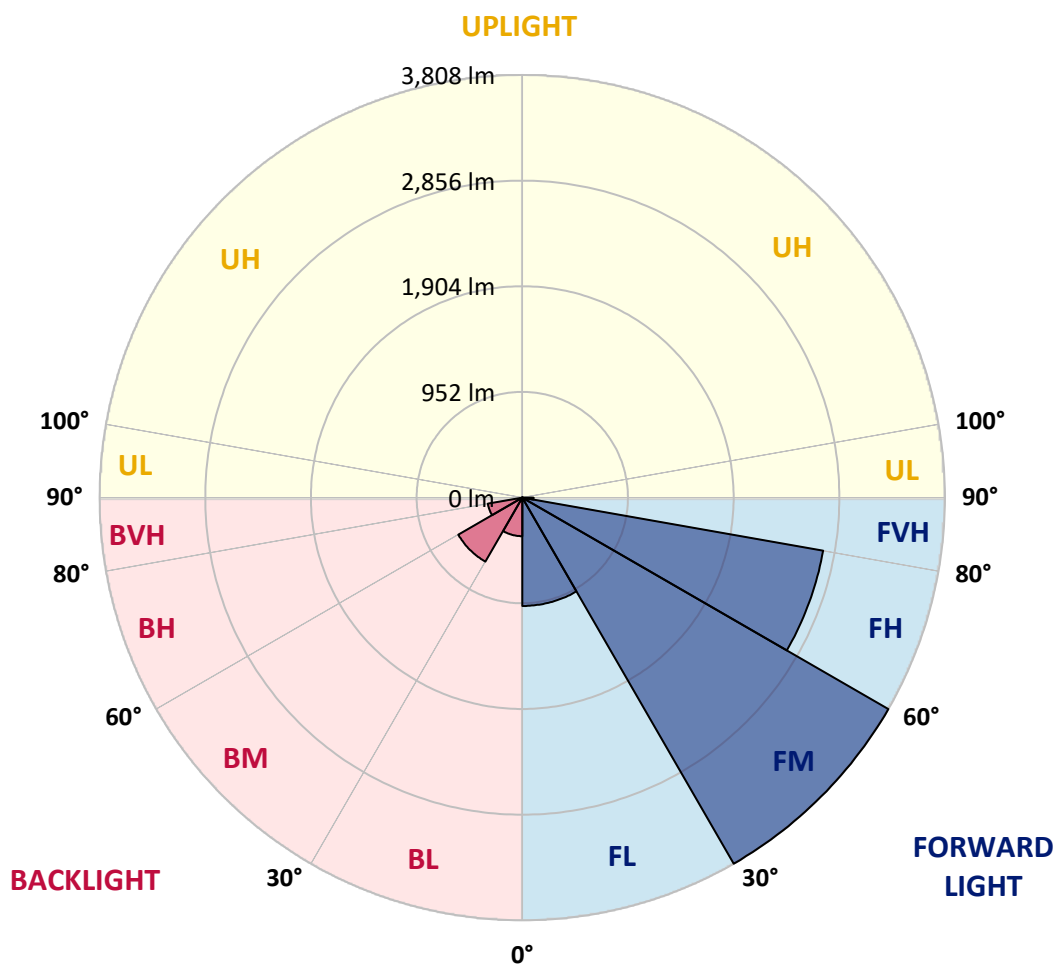
CATALOG NUMBER: GALN-SA3B-827-U-SLL-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	975.8	10.9			
FM	(30°-60°)	3807.8	42.5			
FH	(60°-80°)	2751.8	30.7			G2/5000
FVH	(80°-90°)	101.6	1.1			G2/225
BL	(0°-30°)	347.2	3.9	B1/500		
BM	(30°-60°)	665.6	7.4	B1/1000		
BH	(60°-80°)	315.0	3.5	B1/500		G1/500
BVH	(80°-90°)	3.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3036.5	3036.5	3036.5	3036.5	3036.5	3036.5	3036.5	3036.5	3036.5	3036.5	3036.5
2.5°	3317.5	3312.0	3361.0	3441.0	3521.8	3563.9	3555.6	3552.2	3485.2	3436.2	3333.4
5°	3310.6	3338.9	3426.5	3643.3	3807.6	3887.0	3910.4	3811.7	3681.3	3492.1	3258.8
7.5°	3112.5	3147.7	3290.6	3629.5	3921.5	4094.0	4087.8	3929.8	3660.6	3367.9	3035.2
10°	2866.7	2908.1	3075.9	3487.3	3866.3	4094.0	4106.5	3906.3	3571.5	3196.0	2846.0
12.5°	2693.5	2742.5	2928.2	3354.8	3724.1	3948.4	3962.9	3817.9	3504.5	3129.7	2743.2
15°	2634.8	2681.0	2869.5	3287.8	3572.9	3693.7	3690.2	3675.0	3478.3	3145.6	2748.7
17.5°	2735.6	2773.5	2986.1	3318.2	3431.4	3419.0	3436.9	3510.1	3483.8	3278.8	2922.6
20°	2995.8	3034.5	3263.0	3411.4	3323.0	3244.3	3252.6	3374.8	3534.9	3529.4	3194.6
22.5°	3354.1	3419.6	3626.7	3592.2	3308.5	3135.9	3118.7	3277.4	3621.9	3817.9	3561.8
25°	3807.6	3873.8	4035.4	3880.8	3379.6	3110.4	3094.5	3247.8	3727.5	4099.6	3975.3
27.5°	4188.6	4239.0	4399.8	4161.7	3484.5	3121.4	3095.2	3251.9	3813.1	4339.1	4323.9
30°	4493.7	4531.0	4625.6	4292.8	3575.0	3169.8	3139.4	3312.7	3851.1	4455.8	4606.2
32.5°	4739.5	4802.3	4832.0	4433.0	3704.7	3260.9	3209.1	3429.3	3943.6	4600.0	4902.4
35°	5020.4	5092.9	5054.9	4566.9	3875.9	3403.1	3339.6	3618.4	4083.7	4733.2	5246.1
37.5°	5376.6	5460.1	5311.7	4707.7	4056.8	3617.1	3587.4	3884.2	4296.3	4923.8	5614.7
40°	5745.2	5793.5	5560.9	4878.9	4279.0	3928.4	3956.7	4279.0	4574.5	5152.2	6006.8
42.5°	6033.0	6078.6	5817.0	5022.5	4506.1	4297.7	4415.7	4755.3	4893.4	5386.3	6299.5
45°	6253.2	6291.9	5994.4	5179.2	4812.6	4832.6	5055.6	5246.1	5213.0	5529.1	6525.2
47.5°	6424.4	6457.6	6131.1	5347.6	5271.7	5487.0	5828.0	5908.8	5544.3	5683.8	6729.5
50°	6494.8	6504.5	6173.9	5562.3	5792.8	6320.9	6676.4	6627.4	5924.0	5855.6	6947.0
52.5°	6586.6	6584.6	6296.0	5766.6	6282.9	7066.4	7421.2	7310.1	6353.3	6113.1	7191.3
55°	6827.6	6830.3	6557.7	6056.5	6700.5	7668.3	8048.0	7967.2	6806.2	6548.0	7476.4
57.5°	7120.2	7130.6	6929.7	6395.4	7099.5	8104.6	8516.0	8484.9	7418.4	7031.9	7745.6
59°	7158.2	7178.9	7105.7	6634.3	7336.3	8238.5	8676.1	8706.5	7746.3	7350.8	7891.3
60°	7089.2	7123.7	7156.8	6769.6	7475.0	8286.8	8685.8	8745.2	7992.7	7567.5	7957.5
62.5°	6788.2	6842.7	7009.1	7185.8	7648.3	8136.3	8377.2	8501.5	8297.9	8137.0	7963.8
65°	6394.1	6422.4	6662.6	7259.7	7312.1	7433.6	7508.2	7667.6	7931.3	8356.5	7678.7
67.5°	5748.0	5831.5	6125.5	6831.0	6320.2	6176.6	6158.0	5999.2	6684.0	7833.3	6976.0
70°	4748.4	4785.7	5148.1	5600.2	4769.8	4548.9	4637.3	4577.9	5181.2	6743.3	5614.7
72.5°	3590.8	3675.0	4029.2	4464.0	3245.7	2959.2	3202.9	3180.8	3891.8	5419.4	3857.3
75°	2554.7	2609.3	3060.7	3493.5	2273.1	1925.9	2013.5	2095.7	2716.9	4279.0	2279.3
77.5°	1755.4	1802.3	2141.2	2310.4	1658.1	1588.3	1453.0	1532.4	1780.2	2538.8	1240.4
80°	1058.9	1056.8	1279.8	1321.2	1154.8	1341.2	1125.2	1263.2	1076.1	1086.5	480.4
82.5°	687.5	680.6	782.8	853.2	642.7	675.8	453.5	653.7	701.3	303.0	151.9
85°	307.9	321.0	376.2	496.3	281.6	149.8	92.5	200.9	298.9	152.6	0.0
87.5°	31.8	24.9	66.3	120.8	38.7	4.1	13.8	6.9	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	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3036.5	3036.5	3036.5	3036.5	3036.5	3036.5	3036.5	3036.5	3036.5	3036.5	3036.5
2.5°	3285.7	3245.7	3126.3	3014.5	2918.5	2801.2	2725.2	2605.8	2533.3	2511.2	2514.7
5°	3153.9	3038.6	2811.5	2630.0	2427.7	2312.4	2137.1	1968.7	1877.6	1843.7	1828.6
7.5°	2877.8	2754.2	2480.2	2195.1	1978.3	1776.1	1645.6	1497.2	1395.7	1312.2	1297.7
10°	2672.8	2510.5	2170.9	1864.4	1693.3	1541.4	1410.9	1262.5	1143.1	1047.8	1021.6
12.5°	2549.9	2368.3	1989.4	1732.6	1570.4	1414.4	1244.6	1072.7	950.5	847.7	800.0
15°	2527.8	2317.3	1938.3	1638.0	1437.9	1249.4	1023.7	838.0	712.4	615.0	585.4
17.5°	2661.0	2409.1	1930.7	1539.3	1264.6	997.5	762.8	608.8	467.3	412.8	391.4
20°	2898.5	2571.3	1930.0	1424.7	1086.5	768.3	535.7	396.9	339.6	313.4	301.0
22.5°	3222.2	2792.2	1966.6	1326.0	901.5	566.7	382.4	316.1	283.0	261.6	256.8
25°	3617.8	3119.4	2056.3	1259.1	760.0	444.5	315.5	270.6	243.0	233.3	229.2
27.5°	3969.1	3432.8	2155.1	1190.0	658.5	393.5	292.7	247.8	225.7	218.1	211.9
30°	4272.1	3717.2	2202.7	1098.9	577.1	360.3	296.8	265.1	236.1	213.3	202.9
32.5°	4524.8	3935.3	2233.7	1016.1	508.0	294.7	234.7	205.0	191.9	183.6	176.7
35°	4840.9	4171.4	2215.1	969.2	472.8	268.5	214.0	176.7	154.6	138.1	131.2
37.5°	5172.3	4407.4	2182.7	930.5	457.0	249.2	203.6	167.7	143.6	126.3	117.3
40°	5515.3	4626.3	2144.7	894.6	442.5	236.8	197.4	160.1	136.0	117.3	107.7
42.5°	5829.4	4839.6	2129.5	871.1	419.0	238.8	192.6	156.7	128.4	109.1	100.8
45°	6083.4	5041.8	2150.2	858.7	393.5	235.4	194.0	152.6	122.2	103.5	95.3
47.5°	6354.7	5327.6	2217.2	846.3	368.6	218.8	204.3	151.9	119.4	100.1	91.1
50°	6670.2	5693.4	2370.4	815.9	338.2	200.9	217.4	151.2	116.0	95.9	87.0
52.5°	7090.6	6109.0	2528.5	762.8	294.1	183.6	207.8	149.1	109.1	91.1	82.1
55°	7468.1	6546.6	2662.4	699.9	238.1	158.8	187.1	140.1	97.3	82.8	74.6
57.5°	7624.1	6793.7	2658.3	613.0	190.5	139.4	153.9	128.4	84.9	73.2	66.3
59°	7566.8	6762.7	2569.2	548.8	174.0	129.1	127.7	127.0	79.4	66.3	60.7
60°	7486.1	6649.5	2473.3	517.0	163.6	122.2	117.3	125.6	74.6	62.1	56.6
62.5°	7176.8	6180.1	2155.1	463.2	149.8	103.5	93.9	106.3	66.3	53.8	49.0
65°	6728.8	5458.7	1824.4	448.0	145.6	85.6	78.0	75.9	56.6	45.6	41.4
67.5°	5855.0	4619.4	1477.9	437.6	147.0	71.8	68.3	57.3	46.9	38.0	35.2
70°	4687.7	3601.9	1210.1	425.9	148.4	58.7	57.3	45.6	38.0	31.8	29.0
72.5°	2848.1	2135.0	952.6	370.0	144.3	46.9	51.1	34.5	27.6	22.8	21.4
75°	1760.9	1461.3	590.9	287.8	95.3	34.5	35.9	21.4	18.6	14.5	14.5
77.5°	1020.2	922.9	211.2	103.5	42.1	20.7	15.9	11.0	10.4	6.2	6.2
80°	423.1	338.9	73.2	35.2	22.8	9.7	3.5	0.7	0.0	0.0	0.0
82.5°	123.6	109.8	20.0	15.9	6.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	3036.5	3036.5	3036.5	3036.5	3036.5	3036.5	3036.5	3036.5	3036.5	3036.5	3036.5
2.5°	2456.0	2433.2	2422.9	2458.1	2425.6	2467.1	2435.3	2449.1	2489.8	2507.8	2554.0
5°	1838.2	1814.7	1803.7	1856.9	1854.1	1880.3	1877.6	1901.7	1922.4	1876.2	1923.8
7.5°	1280.5	1264.6	1290.8	1332.2	1376.4	1361.9	1361.9	1329.5	1340.5	1333.6	1331.5
10°	974.0	919.5	905.6	904.3	920.8	924.3	905.6	860.8	877.3	882.2	911.2
12.5°	766.2	724.1	659.9	630.9	623.3	629.5	568.1	528.8	547.4	536.3	564.6
15°	549.5	514.9	477.0	444.5	435.6	423.1	356.2	309.2	303.7	305.8	310.6
17.5°	392.1	368.6	368.6	334.1	315.5	278.2	244.4	223.7	221.6	223.7	227.1
20°	289.2	276.8	275.4	266.4	245.7	220.9	197.4	193.3	191.9	195.3	196.7
22.5°	249.2	236.1	225.0	224.3	205.0	184.3	173.3	167.7	168.4	169.8	173.3
25°	223.0	209.2	197.4	190.5	176.7	162.2	151.9	149.1	149.1	151.2	151.9
27.5°	204.3	187.1	176.7	167.0	154.6	142.2	133.2	131.2	129.8	131.2	134.6
30°	191.2	174.0	160.8	146.3	136.7	124.9	117.3	114.6	113.9	114.6	117.3
32.5°	163.6	153.2	142.9	129.8	118.0	110.4	102.2	97.3	97.3	98.7	101.5
35°	123.6	118.0	117.3	113.9	104.2	95.9	86.3	81.5	81.5	84.2	85.6
37.5°	109.1	98.7	97.3	95.9	91.8	80.8	71.8	67.6	67.0	69.0	71.8
40°	99.4	87.7	81.5	80.1	80.8	68.3	58.7	54.5	54.5	55.2	58.0
42.5°	91.8	78.0	67.0	65.6	68.3	57.3	47.6	43.5	43.5	43.5	46.9
45°	85.6	69.7	56.6	49.7	53.8	46.9	38.7	34.5	33.1	34.5	35.9
47.5°	81.5	63.5	49.7	40.0	40.0	37.3	31.1	26.2	24.9	25.5	27.6
50°	78.0	58.0	42.1	32.4	29.0	29.7	23.5	20.0	18.6	18.6	20.7
52.5°	72.5	52.5	36.6	27.6	22.1	20.0	17.3	14.5	13.8	14.5	15.9
55°	65.6	47.6	31.8	22.8	17.3	13.8	12.4	10.4	9.7	10.4	12.4
57.5°	58.0	40.0	25.5	17.9	11.7	9.0	8.3	6.9	5.5	6.2	7.6
59°	53.2	35.9	22.1	14.5	9.0	6.2	6.2	4.8	3.5	4.1	6.2
60°	51.1	33.1	18.6	12.4	7.6	4.8	4.8	3.5	2.1	2.8	4.8
62.5°	43.5	27.6	14.5	7.6	3.5	0.7	2.1	0.7	0.0	0.7	2.1
65°	36.6	22.1	9.7	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.7
67.5°	30.4	16.6	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	24.2	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	16.6	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	10.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P452435  
 CATALOG NUMBER: GALN-SA3B-827-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3036.5	3036.5	3036.5	3036.5	3036.5	3036.5	3036.5	3036.5	3036.5	3036.5
2.5°	2556.8	2655.5	2716.3	2830.8	2948.2	3038.6	3151.8	3253.3	3295.4	3317.5
5°	1972.1	2109.5	2226.2	2400.8	2563.0	2760.4	2960.6	3196.7	3287.1	3310.6
7.5°	1384.0	1524.1	1646.3	1848.6	2079.8	2344.2	2643.8	2943.4	3075.2	3112.5
10°	999.5	1149.3	1298.4	1500.7	1716.7	2003.2	2315.2	2685.9	2837.7	2866.7
12.5°	630.9	791.8	1034.0	1283.9	1512.4	1743.0	2069.5	2472.6	2640.3	2693.5
15°	365.8	486.0	668.9	994.7	1285.3	1590.4	1946.6	2392.5	2580.3	2634.8
17.5°	245.0	286.5	412.1	661.3	1045.1	1449.6	1915.5	2458.1	2665.9	2735.6
20°	206.4	225.0	269.2	403.1	804.9	1324.0	1923.8	2636.2	2908.8	2995.8
22.5°	181.5	198.8	227.1	289.9	561.9	1168.0	1963.2	2890.9	3242.9	3354.1
25°	160.1	177.4	202.3	240.2	377.6	987.8	2049.4	3263.6	3685.4	3807.6
27.5°	142.2	158.1	179.5	211.9	290.6	786.9	2126.1	3626.7	4089.2	4188.6
30°	125.6	138.7	159.5	184.3	241.6	606.8	2164.7	3944.3	4383.3	4493.7
32.5°	109.1	121.5	141.5	161.5	198.8	462.5	2137.8	4177.6	4669.1	4739.5
35°	93.2	106.3	122.9	141.5	171.9	373.4	2003.2	4439.9	4965.2	5020.4
37.5°	80.1	91.1	108.4	122.9	155.3	298.9	1840.3	4676.0	5297.2	5376.6
40°	67.6	78.7	95.9	109.1	142.9	235.4	1693.3	4938.3	5647.2	5745.2
42.5°	55.2	68.3	83.5	104.9	122.9	179.5	1515.2	5150.9	5910.2	6033.0
45°	44.2	58.7	75.2	104.2	107.0	136.7	1343.3	5316.5	6142.8	6253.2
47.5°	35.2	49.7	72.5	97.3	87.7	108.4	1245.3	5489.8	6336.1	6424.4
50°	28.3	41.4	75.9	85.6	73.2	91.8	1242.5	5683.1	6436.2	6494.8
52.5°	22.8	33.8	64.2	65.6	62.1	80.8	1317.1	5900.5	6538.3	6586.6
55°	19.3	28.3	42.1	48.3	55.9	73.2	1373.0	6235.3	6782.0	6827.6
57.5°	15.2	24.2	32.4	38.7	49.7	67.0	1380.6	6493.5	7090.6	7120.2
59°	13.1	20.7	29.0	34.5	45.6	62.8	1349.5	6509.3	7110.6	7158.2
60°	11.0	18.6	25.5	32.4	42.1	59.4	1315.7	6394.1	7036.0	7089.2
62.5°	8.3	14.5	18.6	26.2	34.5	51.1	1155.5	5991.6	6750.9	6788.2
65°	5.5	10.4	13.8	19.3	26.9	44.2	941.5	5469.8	6310.5	6394.1
67.5°	3.5	7.6	11.0	14.5	22.1	37.3	671.0	4690.4	5694.1	5748.0
70°	2.1	4.8	8.3	11.7	17.3	29.7	398.3	3707.5	4737.4	4748.4
72.5°	1.4	3.5	5.5	8.3	13.8	26.9	193.3	2416.7	3459.0	3590.8
75°	0.7	2.1	3.5	6.2	11.0	22.1	92.5	1614.6	2516.8	2554.7
77.5°	0.0	0.7	2.1	4.1	8.3	17.3	53.8	1060.3	1716.0	1755.4
80°	0.0	0.0	1.4	3.5	6.2	11.0	32.4	625.4	1039.6	1058.9
82.5°	0.0	0.0	0.7	2.8	4.1	8.3	16.6	274.7	680.6	687.5
85°	0.0	0.0	0.7	2.8	3.5	5.5	6.2	37.3	302.3	307.9
87.5°	0.0	0.0	0.7	3.5	3.5	3.5	3.5	2.1	25.5	31.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)