

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: P457075

Luminaire Tested: **GALN-SA8B-827-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457075  
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-SA8B-827-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 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: 24257 lumens  
Efficiency: N/A  
Efficacy: 74.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

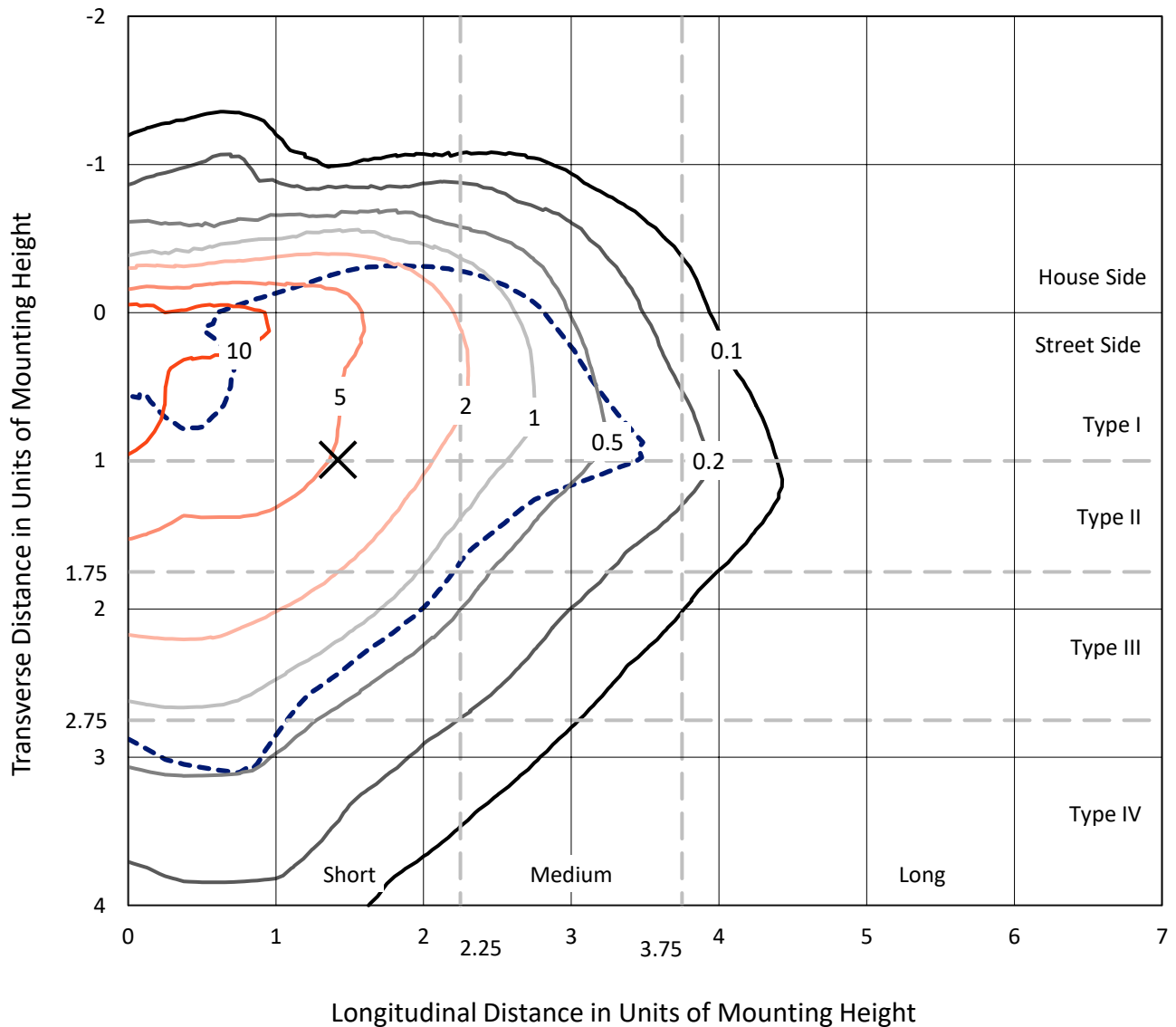
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P457075  
 CATALOG NUMBER: GALN-SA8B-827-U-SLL-HSS

### Iso-Footcandle Lines of Horizontal Illumination

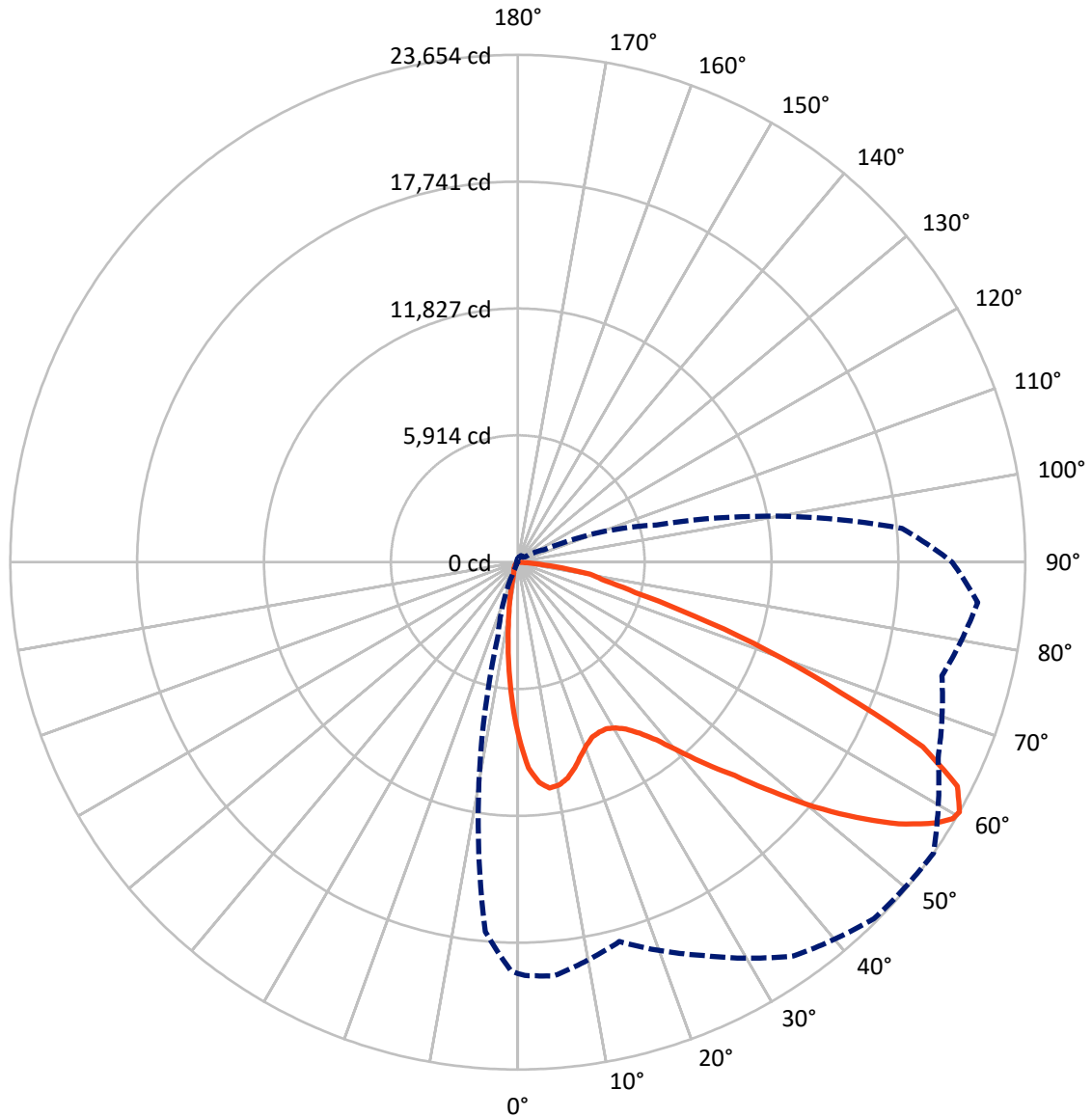
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17 fc  
 Type III - Short - N/A

REPORT NUMBER: P457075  
CATALOG NUMBER: GALN-SA8B-827-U-SLL-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P457075

CATALOG NUMBER: GALN-SA8B-827-U-SLL-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3599.9	0.0	3599.9
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	20657.0	0.0	20657.0
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	24257.0	0.0	24257.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	608.2	2.5
10°-20°	1197.7	4.9
20°-30°	1772.8	7.3
30°-40°	2642.6	10.9
40°-50°	3870.1	16.0
50°-60°	5587.2	23.0
60°-70°	5877.4	24.2
70°-80°	2417.8	10.0
80°-90°	283.2	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°	24257.0	100.0
0°-180°	24257.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P457075

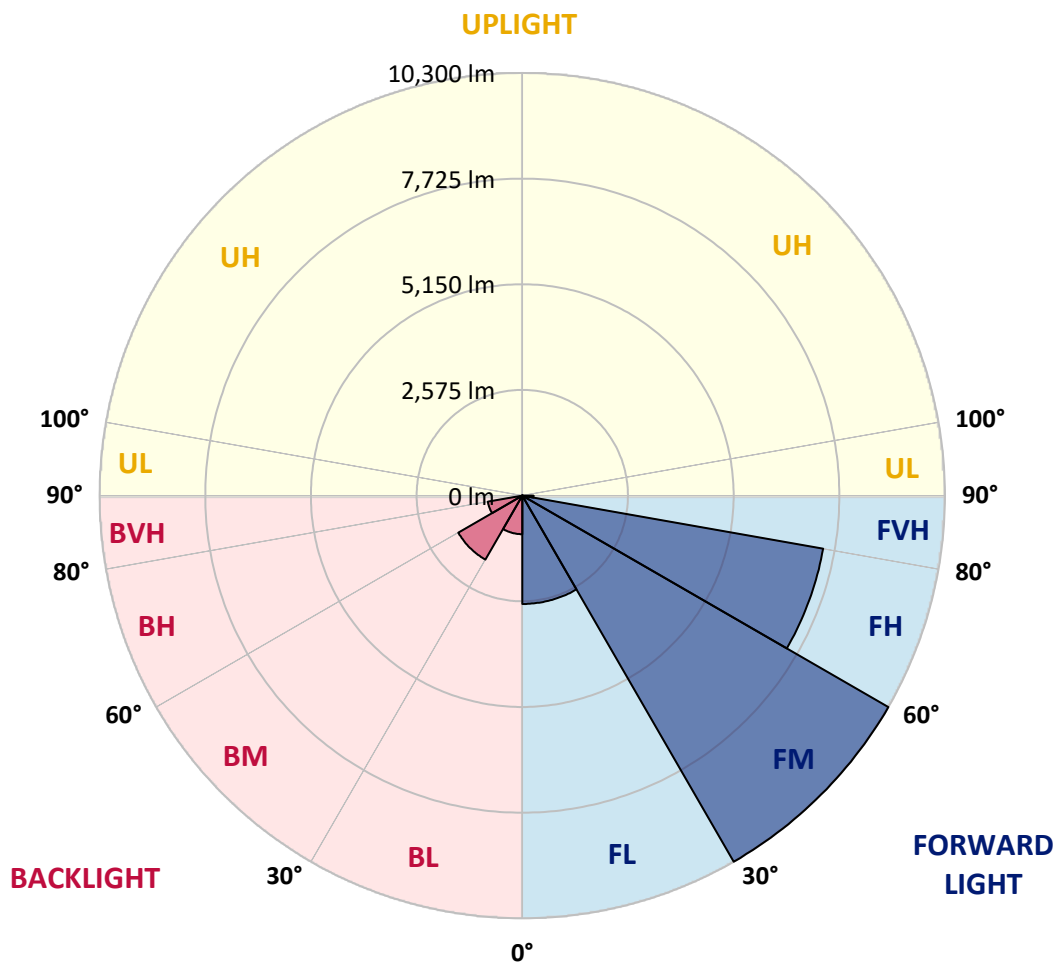
CATALOG NUMBER: GALN-SA8B-827-U-SLL-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2639.5	10.9			
FM	(30°-60°)	10299.6	42.5			
FH	(60°-80°)	7443.1	30.7			G3/7500
FVH	(80°-90°)	274.8	1.1			G3/500
BL	(0°-30°)	939.2	3.9	B2/1000		
BM	(30°-60°)	1800.3	7.4	B2/2500		
BH	(60°-80°)	852.1	3.5	B2/1000		G2/1000
BVH	(80°-90°)	8.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type III Short





REPORT NUMBER: P457075

CATALOG NUMBER: GALN-SA8B-827-U-SLL-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8213.4	8213.4	8213.4	8213.4	8213.4	8213.4	8213.4	8213.4	8213.4	8213.4	8213.4
2.5°	8973.3	8958.3	9090.9	9307.5	9525.9	9639.8	9617.4	9608.1	9427.0	9294.4	9016.2
5°	8954.6	9031.1	9268.3	9854.5	10298.9	10513.6	10577.1	10310.1	9957.2	9445.6	8814.6
7.5°	8418.7	8514.0	8900.4	9817.2	10607.0	11073.7	11056.9	10629.4	9901.2	9109.6	8209.6
10°	7754.0	7866.1	8319.8	9432.6	10457.6	11073.7	11107.4	10565.9	9660.4	8644.7	7698.0
12.5°	7285.4	7418.0	7920.2	9074.1	10073.0	10679.8	10719.0	10326.9	9479.2	8465.4	7419.8
15°	7126.7	7251.8	7761.5	8893.0	9664.1	9990.8	9981.5	9940.4	9408.3	8508.4	7434.8
17.5°	7399.3	7502.0	8077.1	8975.1	9281.3	9247.7	9296.3	9494.2	9423.2	8868.7	7905.3
20°	8103.2	8207.8	8825.8	9227.2	8988.2	8775.3	8797.8	9128.2	9561.4	9546.5	8640.9
22.5°	9072.2	9249.6	9809.7	9716.4	8949.0	8482.2	8435.5	8865.0	9796.7	10326.9	9634.2
25°	10298.9	10478.1	10915.0	10496.8	9141.3	8413.1	8370.2	8784.7	10082.3	11088.7	10752.6
27.5°	11329.5	11465.8	11900.9	11256.7	9425.1	8443.0	8372.1	8795.9	10313.8	11736.6	11695.5
30°	12154.8	12255.6	12511.4	11611.5	9669.7	8573.7	8491.6	8960.2	10416.5	12052.1	12459.1
32.5°	12819.5	12989.4	13069.7	11990.5	10020.7	8820.2	8680.1	9275.7	10666.7	12442.3	13260.1
35°	13579.4	13775.4	13672.7	12352.7	10483.7	9204.8	9033.0	9787.3	11045.7	12802.7	14189.9
37.5°	14542.8	14768.7	14367.3	12733.6	10972.9	9783.6	9703.3	10506.1	11620.8	13318.0	15187.0
40°	15539.8	15670.5	15041.3	13196.6	11574.1	10625.6	10702.2	11574.1	12373.2	13936.0	16247.5
42.5°	16318.4	16441.6	15734.0	13585.0	12188.4	11624.5	11943.8	12862.4	13235.8	14568.9	17039.1
45°	16914.0	17018.6	16213.9	14008.8	13017.4	13071.5	13674.6	14189.9	14100.3	14955.4	17649.7
47.5°	17377.1	17466.7	16583.5	14464.4	14259.0	14841.5	15763.9	15982.3	14996.5	15373.7	18202.3
50°	17567.5	17593.6	16699.3	15045.1	15668.7	17097.0	18058.5	17926.0	16023.4	15838.6	18790.4
52.5°	17815.8	17810.2	17029.8	15597.7	16994.3	19113.5	20073.1	19772.5	17184.7	16535.0	19451.4
55°	18467.4	18474.9	17737.4	16381.9	18123.9	20741.6	21768.5	21550.0	18409.6	17711.3	20222.5
57.5°	19259.1	19287.1	18743.8	17298.6	19203.1	21921.6	23034.4	22950.3	20065.7	19020.1	20950.7
59°	19361.8	19417.8	19219.9	17944.7	19843.5	22283.8	23467.5	23549.7	20952.5	19882.7	21344.6
60°	19175.1	19268.4	19358.0	18310.6	20218.8	22414.5	23493.7	23654.2	21619.1	20469.0	21523.9
62.5°	18361.0	18508.5	18958.5	19436.5	20687.4	22007.5	22659.1	22995.1	22444.4	22009.3	21540.7
65°	17294.9	17371.5	18021.2	19636.2	19778.1	20106.8	20308.4	20739.7	21452.9	22603.1	20769.6
67.5°	15547.3	15773.2	16568.6	18476.8	17095.1	16706.8	16656.4	16226.9	18079.1	21187.8	18868.9
70°	12843.7	12944.6	13924.8	15147.7	12901.6	12304.2	12543.1	12382.6	14014.4	18239.7	15187.0
72.5°	9712.6	9940.4	10898.2	12074.5	8779.1	8004.2	8663.3	8603.6	10526.7	14658.6	10433.3
75°	6910.1	7057.6	8278.7	9449.4	6148.3	5209.2	5446.3	5668.5	7348.9	11574.1	6165.1
77.5°	4748.0	4875.0	5791.7	6249.2	4484.8	4296.2	3930.2	4145.0	4815.2	6867.2	3355.2
80°	2864.1	2858.5	3461.6	3573.6	3123.7	3627.8	3043.4	3416.8	2910.8	2938.8	1299.5
82.5°	1859.6	1841.0	2117.3	2307.7	1738.3	1827.9	1226.7	1768.1	1897.0	819.7	410.8
85°	832.7	868.2	1017.6	1342.4	761.8	405.2	250.2	543.3	808.5	412.6	0.0
87.5°	85.9	67.2	179.2	326.7	104.6	11.2	37.3	18.7	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: P457075

CATALOG NUMBER: GALN-SA8B-827-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8213.4	8213.4	8213.4	8213.4	8213.4	8213.4	8213.4	8213.4	8213.4	8213.4	8213.4
2.5°	8887.4	8779.1	8456.1	8153.6	7894.1	7576.7	7371.3	7048.3	6852.2	6792.5	6801.8
5°	8530.8	8219.0	7604.7	7113.6	6566.6	6254.8	5780.5	5325.0	5078.5	4987.0	4945.9
7.5°	7783.9	7449.7	6708.5	5937.4	5351.1	4804.0	4451.2	4049.7	3775.3	3549.3	3510.1
10°	7229.4	6790.6	5872.0	5043.0	4580.0	4169.2	3816.3	3414.9	3091.9	2834.3	2763.3
12.5°	6897.1	6406.0	5381.0	4686.4	4247.6	3825.7	3366.4	2901.5	2571.0	2292.8	2164.0
15°	6837.3	6267.8	5242.8	4430.6	3889.2	3379.4	2768.9	2266.7	1926.8	1663.6	1583.3
17.5°	7197.7	6516.2	5222.3	4163.6	3420.5	2698.0	2063.1	1646.8	1264.0	1116.5	1058.6
20°	7839.9	6954.9	5220.4	3853.7	2938.8	2078.1	1448.9	1073.6	918.6	847.7	814.1
22.5°	8715.6	7552.4	5319.4	3586.7	2438.4	1532.9	1034.4	855.1	765.5	707.6	694.6
25°	9785.4	8437.4	5562.1	3405.6	2055.7	1202.4	853.3	731.9	657.2	631.1	619.9
27.5°	10735.8	9285.1	5829.1	3218.9	1781.2	1064.2	791.6	670.3	610.5	590.0	573.2
30°	11555.5	10054.3	5957.9	2972.4	1560.9	974.6	802.9	717.0	638.5	576.9	548.9
32.5°	12238.8	10644.3	6041.9	2748.4	1374.2	797.2	634.8	554.5	519.1	496.6	478.0
35°	13093.9	11282.9	5991.5	2621.4	1279.0	726.3	578.8	478.0	418.2	373.4	354.7
37.5°	13990.1	11921.4	5903.8	2516.8	1236.0	674.0	550.8	453.7	388.4	341.7	317.4
40°	14918.1	12513.3	5801.1	2419.8	1196.8	640.4	534.0	433.2	367.8	317.4	291.3
42.5°	15767.6	13090.2	5760.0	2356.3	1133.3	646.0	520.9	423.8	347.3	295.0	272.6
45°	16454.7	13637.3	5816.0	2322.7	1064.2	636.7	524.7	412.6	330.5	280.1	257.7
47.5°	17188.5	14410.2	5997.1	2289.1	997.0	591.9	552.7	410.8	323.0	270.7	246.5
50°	18041.7	15399.8	6411.6	2206.9	914.9	543.3	588.1	408.9	313.7	259.5	235.3
52.5°	19178.8	16523.8	6839.2	2063.1	795.4	496.6	562.0	403.3	295.0	246.5	222.2
55°	20200.1	17707.5	7201.4	1893.2	644.1	429.4	506.0	379.0	263.3	224.1	201.6
57.5°	20622.1	18376.0	7190.2	1658.0	515.3	377.2	416.4	347.3	229.7	197.9	179.2
59°	20467.1	18291.9	6949.3	1484.3	470.5	349.1	345.4	343.5	214.7	179.2	164.3
60°	20248.7	17985.7	6689.8	1398.5	442.5	330.5	317.4	339.8	201.6	168.0	153.1
62.5°	19412.2	16716.1	5829.1	1252.8	405.2	280.1	253.9	287.5	179.2	145.6	132.6
65°	18200.4	14765.0	4934.7	1211.7	394.0	231.5	211.0	205.4	153.1	123.2	112.0
67.5°	15836.7	12494.6	3997.5	1183.7	397.7	194.2	184.8	155.0	127.0	102.7	95.2
70°	12679.4	9742.5	3273.0	1152.0	401.4	158.7	155.0	123.2	102.7	85.9	78.4
72.5°	7703.6	5774.9	2576.6	1000.8	390.2	127.0	138.2	93.4	74.7	61.6	57.9
75°	4763.0	3952.6	1598.2	778.6	257.7	93.4	97.1	57.9	50.4	39.2	39.2
77.5°	2759.6	2496.3	571.3	280.1	113.9	56.0	42.9	29.9	28.0	16.8	16.8
80°	1144.5	916.7	197.9	95.2	61.6	26.1	9.3	1.9	0.0	0.0	0.0
82.5°	334.2	296.9	54.1	42.9	18.7	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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CATALOG NUMBER: GALN-SA8B-827-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	8213.4	8213.4	8213.4	8213.4	8213.4	8213.4	8213.4	8213.4	8213.4	8213.4	8213.4
2.5°	6643.1	6581.5	6553.5	6648.7	6561.0	6673.0	6587.1	6624.5	6734.6	6783.2	6908.3
5°	4972.1	4908.6	4878.7	5022.5	5015.0	5086.0	5078.5	5143.8	5199.9	5074.8	5203.6
7.5°	3463.5	3420.5	3491.5	3603.5	3723.0	3683.8	3683.8	3596.0	3625.9	3607.2	3601.6
10°	2634.5	2487.0	2449.6	2445.9	2490.7	2500.0	2449.6	2328.3	2373.1	2386.1	2464.6
12.5°	2072.5	1958.6	1784.9	1706.5	1686.0	1702.8	1536.6	1430.2	1480.6	1450.7	1527.3
15°	1486.2	1392.9	1290.2	1202.4	1178.1	1144.5	963.4	836.5	821.5	827.1	840.2
17.5°	1060.5	997.0	997.0	903.7	853.3	752.4	661.0	604.9	599.3	604.9	614.3
20°	782.3	748.7	745.0	720.7	664.7	597.5	534.0	522.8	519.1	528.4	532.1
22.5°	674.0	638.5	608.7	606.8	554.5	498.5	468.6	453.7	455.6	459.3	468.6
25°	603.1	565.7	534.0	515.3	478.0	438.8	410.8	403.3	403.3	408.9	410.8
27.5°	552.7	506.0	478.0	451.8	418.2	384.6	360.3	354.7	351.0	354.7	364.1
30°	517.2	470.5	435.0	395.8	369.7	337.9	317.4	309.9	308.1	309.9	317.4
32.5°	442.5	414.5	386.5	351.0	319.3	298.7	276.3	263.3	263.3	267.0	274.5
35°	334.2	319.3	317.4	308.1	281.9	259.5	233.4	220.3	220.3	227.8	231.5
37.5°	295.0	267.0	263.3	259.5	248.3	218.5	194.2	183.0	181.1	186.7	194.2
40°	268.9	237.1	220.3	216.6	218.5	184.8	158.7	147.5	147.5	149.4	156.8
42.5°	248.3	211.0	181.1	177.4	184.8	155.0	128.8	117.6	117.6	117.6	127.0
45°	231.5	188.6	153.1	134.4	145.6	127.0	104.6	93.4	89.6	93.4	97.1
47.5°	220.3	171.8	134.4	108.3	108.3	100.8	84.0	70.9	67.2	69.1	74.7
50°	211.0	156.8	113.9	87.8	78.4	80.3	63.5	54.1	50.4	50.4	56.0
52.5°	196.0	141.9	99.0	74.7	59.7	54.1	46.7	39.2	37.3	39.2	42.9
55°	177.4	128.8	85.9	61.6	46.7	37.3	33.6	28.0	26.1	28.0	33.6
57.5°	156.8	108.3	69.1	48.5	31.7	24.3	22.4	18.7	14.9	16.8	20.5
59°	143.8	97.1	59.7	39.2	24.3	16.8	16.8	13.1	9.3	11.2	16.8
60°	138.2	89.6	50.4	33.6	20.5	13.1	13.1	9.3	5.6	7.5	13.1
62.5°	117.6	74.7	39.2	20.5	9.3	1.9	5.6	1.9	0.0	1.9	5.6
65°	99.0	59.7	26.1	9.3	0.0	0.0	0.0	0.0	0.0	0.0	1.9
67.5°	82.2	44.8	13.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	65.3	29.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	44.8	16.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	28.0	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	11.2	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: P457075

CATALOG NUMBER: GALN-SA8B-827-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8213.4	8213.4	8213.4	8213.4	8213.4	8213.4	8213.4	8213.4	8213.4	8213.4
2.5°	6915.7	7182.7	7347.0	7657.0	7974.4	8219.0	8525.2	8799.6	8913.5	8973.3
5°	5334.3	5705.8	6021.4	6493.8	6932.5	7466.5	8008.0	8646.5	8891.1	8954.6
7.5°	3743.5	4122.5	4453.0	5000.1	5625.6	6340.7	7151.0	7961.3	8317.9	8418.7
10°	2703.6	3108.7	3512.0	4059.1	4643.5	5418.3	6262.2	7264.9	7675.6	7754.0
12.5°	1706.5	2141.6	2796.9	3472.8	4090.8	4714.4	5597.6	6687.9	7141.6	7285.4
15°	989.6	1314.4	1809.2	2690.5	3476.5	4301.8	5265.2	6471.4	6979.2	7126.7
17.5°	662.8	774.8	1114.7	1788.7	2826.8	3920.9	5181.2	6648.7	7210.7	7399.3
20°	558.3	608.7	728.2	1090.4	2177.0	3581.1	5203.6	7130.4	7867.9	8103.2
22.5°	491.0	537.7	614.3	784.2	1519.8	3159.1	5310.0	7819.4	8771.6	9072.2
25°	433.2	479.8	547.1	649.7	1021.3	2671.8	5543.4	8827.6	9968.4	10298.9
27.5°	384.6	427.6	485.4	573.2	786.0	2128.5	5750.7	9809.7	11060.7	11329.5
30°	339.8	375.3	431.3	498.5	653.5	1641.2	5855.2	10668.6	11856.1	12154.8
32.5°	295.0	328.6	382.8	436.9	537.7	1251.0	5782.4	11299.7	12629.0	12819.5
35°	252.1	287.5	332.3	382.8	464.9	1010.1	5418.3	12009.2	13430.0	13579.4
37.5°	216.6	246.5	293.1	332.3	420.1	808.5	4977.7	12647.7	14328.1	14542.8
40°	183.0	212.8	259.5	295.0	386.5	636.7	4580.0	13357.2	15274.7	15539.8
42.5°	149.4	184.8	225.9	283.8	332.3	485.4	4098.3	13932.3	15986.1	16318.4
45°	119.5	158.7	203.5	281.9	289.4	369.7	3633.4	14380.4	16615.3	16914.0
47.5°	95.2	134.4	196.0	263.3	237.1	293.1	3368.2	14849.0	17138.1	17377.1
50°	76.6	112.0	205.4	231.5	197.9	248.3	3360.8	15371.8	17408.8	17567.5
52.5°	61.6	91.5	173.6	177.4	168.0	218.5	3562.4	15959.9	17685.1	17815.8
55°	52.3	76.6	113.9	130.7	151.2	197.9	3713.7	16865.5	18344.2	18467.4
57.5°	41.1	65.3	87.8	104.6	134.4	181.1	3734.2	17563.8	19178.8	19259.1
59°	35.5	56.0	78.4	93.4	123.2	169.9	3650.2	17606.7	19233.0	19361.8
60°	29.9	50.4	69.1	87.8	113.9	160.6	3558.7	17294.9	19031.3	19175.1
62.5°	22.4	39.2	50.4	70.9	93.4	138.2	3125.5	16206.4	18260.2	18361.0
65°	14.9	28.0	37.3	52.3	72.8	119.5	2546.7	14794.9	17069.0	17294.9
67.5°	9.3	20.5	29.9	39.2	59.7	100.8	1814.8	12686.9	15401.7	15547.3
70°	5.6	13.1	22.4	31.7	46.7	80.3	1077.3	10028.2	12813.9	12843.7
72.5°	3.7	9.3	14.9	22.4	37.3	72.8	522.8	6536.7	9356.0	9712.6
75°	1.9	5.6	9.3	16.8	29.9	59.7	250.2	4367.1	6807.4	6910.1
77.5°	0.0	1.9	5.6	11.2	22.4	46.7	145.6	2867.9	4641.6	4748.0
80°	0.0	0.0	3.7	9.3	16.8	29.9	87.8	1691.6	2811.8	2864.1
82.5°	0.0	0.0	1.9	7.5	11.2	22.4	44.8	743.1	1841.0	1859.6
85°	0.0	0.0	1.9	7.5	9.3	14.9	16.8	100.8	817.8	832.7
87.5°	0.0	0.0	1.9	9.3	9.3	9.3	9.3	5.6	69.1	85.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)