

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: P533931

Luminaire Tested: **GALN-SA9B-827-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533931  
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-SA9B-827-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 800mA 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: 20964 lumens  
Efficiency: N/A  
Efficacy: 57.6 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

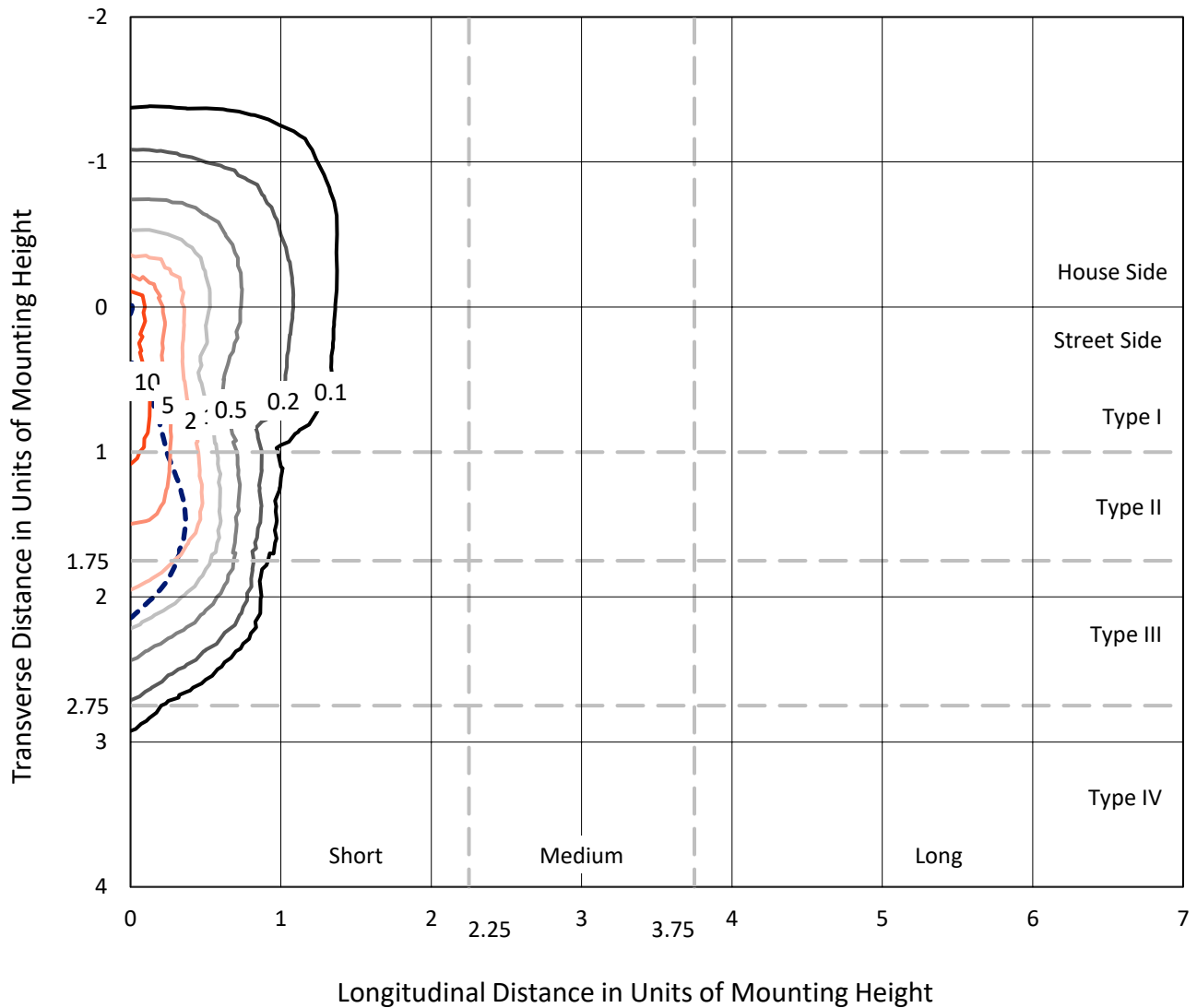
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

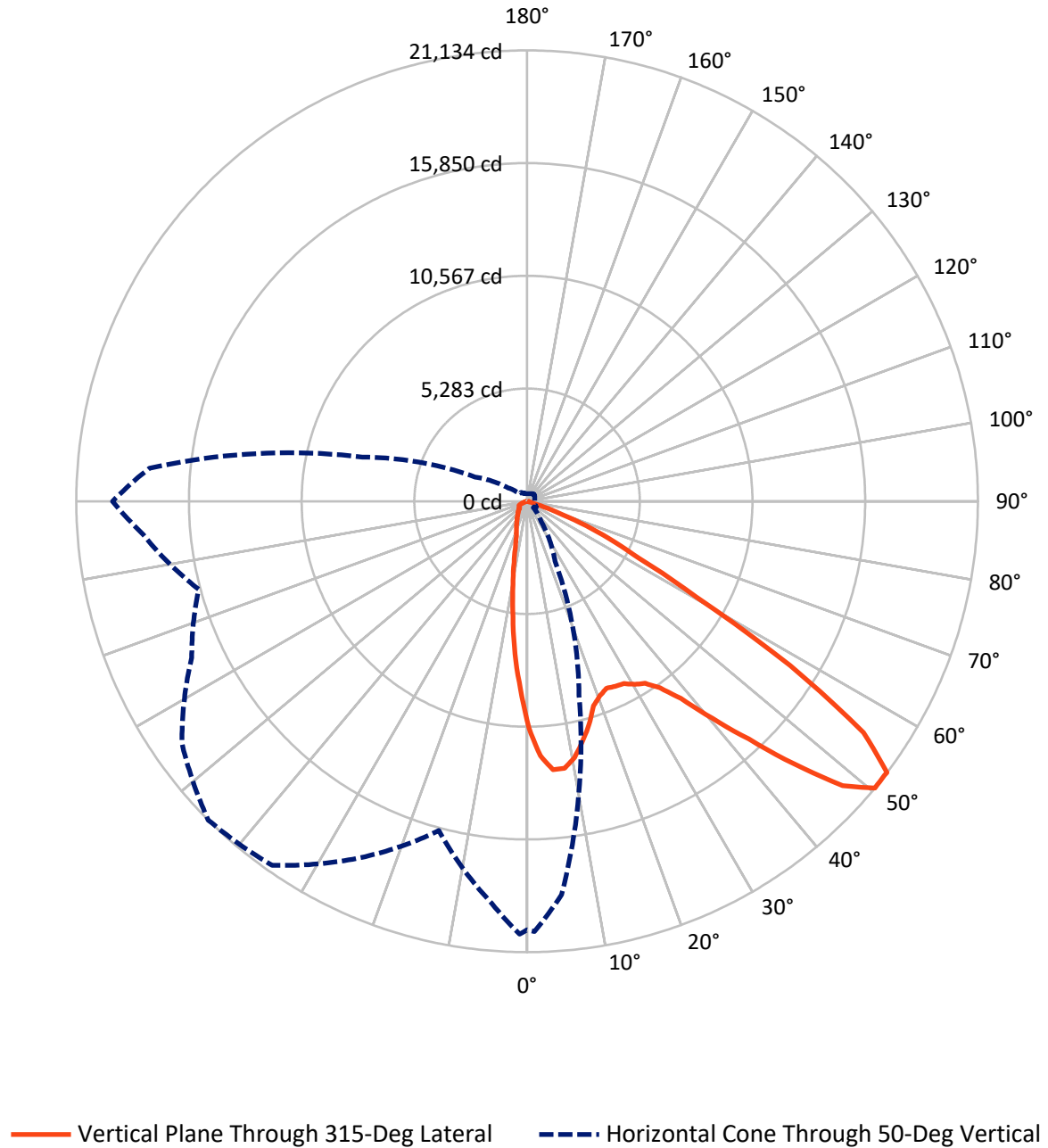
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4199.1	0.0	4199.1
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	16764.9	0.0	16764.9
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	20964.0	0.0	20964.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	774.9	3.7
10°-20°	1540.1	7.3
20°-30°	2313.7	11.0
30°-40°	3472.8	16.6
40°-50°	4880.8	23.3
50°-60°	5264.8	25.1
60°-70°	2444.4	11.7
70°-80°	230.0	1.1
80°-90°	42.4	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°	20964.0	100.0
0°-180°	20964.0	100.0

**Coefficient of Utilization**



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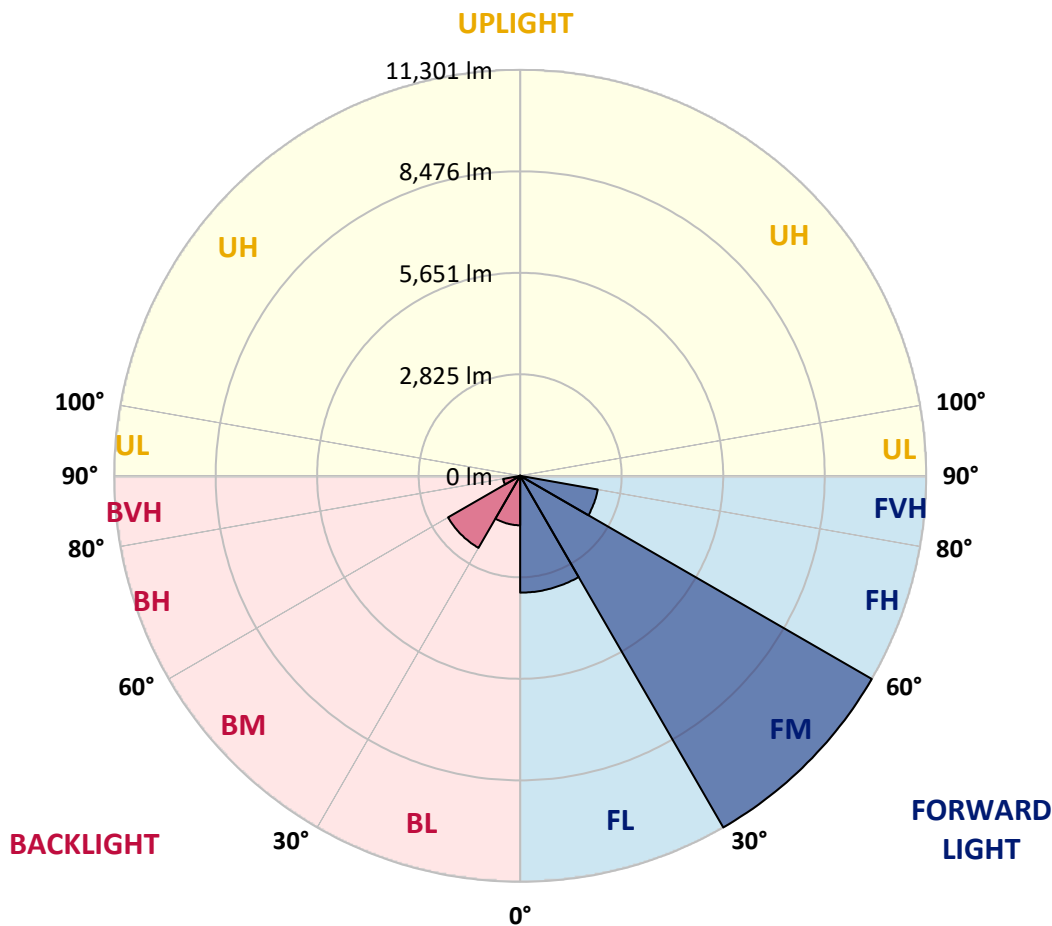
CATALOG NUMBER: GALN-SA9B-827-U-SLR-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3252.4	15.5			
FM (30°-60°)	11301.2	53.9			
FH (60°-80°)	2192.3	10.5			G2/5000
FVH (80°-90°)	19.1	0.1			G1/100
BL (0°-30°)	1376.4	6.6	B3/2500		
BM (30°-60°)	2317.3	11.1	B2/2500		
BH (60°-80°)	482.2	2.3	B1/500		G1/500
BVH (80°-90°)	23.3	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10631.4	10631.4	10631.4	10631.4	10631.4	10631.4	10631.4	10631.4	10631.4	10631.4	10631.4
2.5°	11051.5	10881.0	10664.7	10485.8	10219.6	9683.1	9537.5	9362.8	9217.2	9021.7	8747.2
5°	10049.1	9995.0	9895.2	9221.4	8734.7	8085.8	7553.4	7328.8	7033.5	6792.3	6617.6
7.5°	9283.7	9067.5	8751.3	8073.4	7295.6	6600.9	6010.3	5665.1	5274.1	5141.0	4903.9
10°	8464.4	8514.3	8048.4	7095.9	6155.9	5594.4	5228.3	4895.6	4542.0	4309.1	3972.2
12.5°	8202.3	8040.1	7682.4	6505.3	5702.5	5178.4	4733.4	4321.6	3947.3	3572.9	3248.5
15°	8372.8	8123.3	7624.2	6380.5	5353.1	4700.1	4142.7	3585.4	3240.2	2761.8	2424.9
17.5°	8984.3	8784.6	8115.0	6513.6	5174.3	4242.6	3414.9	2840.9	2312.6	1880.0	1709.5
20°	10003.3	9720.5	8880.3	6684.1	4908.1	3689.4	2770.2	2063.1	1563.9	1380.9	1285.3
22.5°	11001.6	10847.7	9787.0	7012.7	4671.0	3198.6	2079.7	1389.2	1168.8	1135.5	1073.1
25°	12902.4	12440.7	11172.1	7607.5	4488.0	2736.9	1568.1	1118.9	989.9	965.0	973.3
27.5°	14033.8	13646.9	12453.2	8002.7	4284.2	2383.3	1326.8	1027.4	940.0	885.9	865.2
30°	15119.4	14670.2	13089.6	8235.6	3847.4	2009.0	1177.1	985.8	965.0	885.9	861.0
32.5°	15955.4	15514.5	14008.8	8585.0	3668.6	1767.7	969.1	769.5	715.4	707.1	782.0
35°	17236.5	16766.5	14794.9	8776.3	3531.3	1643.0	840.2	686.3	623.9	599.0	603.1
37.5°	18430.2	18110.0	15522.8	8851.2	3385.7	1605.5	752.8	615.6	561.5	544.9	540.7
40°	19428.5	18713.1	16213.3	8930.2	3323.3	1534.8	698.8	561.5	524.1	499.1	499.1
42.5°	19886.0	19158.1	16986.9	8884.4	3306.7	1422.5	698.8	515.8	486.6	461.7	457.5
45°	19786.2	19490.9	17332.2	8863.7	3306.7	1310.2	636.4	503.3	461.7	428.4	420.1
47.5°	20044.1	19657.3	17764.7	8951.0	3240.2	1231.2	536.6	528.2	436.7	395.1	386.8
50°	20089.8	20164.7	18517.6	9404.4	3094.6	1131.4	420.1	519.9	420.1	357.7	349.4
52°	20389.3	19923.5	18746.4	9645.6	2940.7	1056.5	353.5	445.1	403.5	332.8	324.4
52.5°	19977.5	20281.2	18800.4	9733.0	2957.3	1006.6	341.1	436.7	395.1	332.8	312.0
55°	19515.8	19807.0	18580.0	9920.1	2711.9	790.3	266.2	316.1	357.7	291.2	278.7
57.5°	16962.0	17257.3	16146.7	9084.1	2208.6	557.4	220.4	237.1	316.1	270.4	257.9
60°	15077.8	14865.6	13551.3	7578.4	1568.1	312.0	174.7	183.0	345.2	249.6	245.4
62.5°	13780.0	13326.7	11326.0	5852.3	956.7	208.0	137.3	141.4	266.2	232.9	232.9
65°	10194.7	9687.2	7524.3	3539.6	470.0	145.6	104.0	112.3	166.4	199.7	199.7
67.5°	5819.0	5623.5	3635.3	1597.2	195.5	91.5	79.0	87.3	128.9	162.2	153.9
70°	2674.5	2400.0	1397.6	336.9	91.5	62.4	62.4	70.7	104.0	120.6	112.3
72.5°	782.0	740.4	341.1	54.1	37.4	37.4	41.6	54.1	79.0	91.5	83.2
75°	58.2	37.4	25.0	16.6	16.6	25.0	33.3	54.1	79.0	87.3	70.7
77.5°	4.2	8.3	4.2	4.2	12.5	25.0	37.4	66.6	104.0	108.1	79.0
80°	4.2	4.2	0.0	4.2	12.5	25.0	41.6	74.9	116.5	124.8	66.6
82.5°	0.0	0.0	0.0	4.2	16.6	33.3	49.9	79.0	108.1	133.1	70.7
85°	0.0	0.0	0.0	4.2	25.0	45.8	58.2	20.8	12.5	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°	10631.4	10631.4	10631.4	10631.4	10631.4	10631.4	10631.4	10631.4	10631.4	10631.4	10631.4
2.5°	8942.7	8834.5	8792.9	8830.4	8817.9	8805.4	9034.2	8984.3	8976.0	9050.8	9034.2
5°	6713.2	6521.9	7046.0	6833.9	7054.3	7187.4	7212.4	7224.9	7378.8	7216.5	7428.7
7.5°	4783.3	4833.2	4829.0	4970.5	5224.2	5448.8	5581.9	5477.9	5469.6	5448.8	5357.3
10°	3822.5	3735.1	3718.5	3685.2	3764.2	3955.6	4117.8	3988.9	3897.3	4022.1	3984.7
12.5°	3123.7	3003.1	2936.5	2803.4	2807.6	2936.5	2936.5	2936.5	3028.0	3098.7	3152.8
15°	2395.8	2296.0	2296.0	2162.9	2133.8	2137.9	2204.5	2212.8	2358.4	2400.0	2420.8
17.5°	1676.2	1622.2	1684.6	1738.6	1705.3	1713.7	1738.6	1746.9	1767.7	1751.1	1792.7
20°	1289.4	1281.1	1297.7	1393.4	1464.1	1505.7	1476.6	1435.0	1410.0	1351.8	1351.8
22.5°	1093.9	1110.6	1139.7	1218.7	1310.2	1335.2	1301.9	1206.2	1131.4	1123.0	1127.2
25°	973.3	989.9	1035.7	1085.6	1135.5	1177.1	1143.8	1073.1	1031.5	994.1	994.1
27.5°	898.4	906.7	931.7	969.1	1010.7	1044.0	1031.5	994.1	948.3	931.7	894.3
30°	840.2	852.7	881.8	890.1	927.5	944.2	923.4	915.1	885.9	865.2	852.7
32.5°	811.1	806.9	827.7	836.0	840.2	852.7	827.7	840.2	836.0	802.8	790.3
35°	611.4	644.7	698.8	744.5	757.0	773.6	769.5	752.8	707.1	669.7	623.9
37.5°	549.0	569.8	599.0	636.4	686.3	707.1	698.8	657.2	603.1	578.2	569.8
40°	507.4	519.9	544.9	569.8	619.7	657.2	628.1	590.6	549.0	528.2	515.8
42.5°	470.0	474.2	486.6	511.6	549.0	607.3	557.4	507.4	490.8	478.3	470.0
45°	428.4	428.4	445.1	457.5	499.1	553.2	503.3	457.5	449.2	440.9	436.7
47.5°	395.1	399.3	407.6	424.3	457.5	495.0	461.7	424.3	403.5	399.3	391.0
50°	353.5	357.7	374.3	391.0	432.6	453.4	432.6	391.0	370.2	357.7	357.7
52°	320.3	332.8	349.4	382.7	411.8	445.1	420.1	374.3	349.4	336.9	328.6
52.5°	316.1	324.4	341.1	378.5	411.8	440.9	415.9	370.2	341.1	332.8	324.4
55°	282.8	295.3	324.4	370.2	407.6	440.9	407.6	366.0	324.4	303.6	295.3
57.5°	270.4	278.7	316.1	374.3	403.5	440.9	407.6	366.0	324.4	287.0	278.7
60°	257.9	274.5	316.1	361.9	399.3	445.1	411.8	361.9	316.1	270.4	270.4
62.5°	245.4	257.9	312.0	353.5	382.7	428.4	395.1	353.5	303.6	257.9	253.7
65°	212.1	232.9	274.5	295.3	328.6	370.2	336.9	307.8	266.2	228.8	224.6
67.5°	162.2	170.5	203.8	228.8	249.6	287.0	270.4	232.9	203.8	174.7	174.7
70°	112.3	120.6	145.6	158.1	178.9	199.7	187.2	158.1	137.3	120.6	116.5
72.5°	79.0	83.2	91.5	99.8	108.1	116.5	112.3	91.5	79.0	74.9	70.7
75°	62.4	70.7	74.9	70.7	66.6	62.4	62.4	54.1	45.8	41.6	41.6
77.5°	62.4	66.6	62.4	54.1	45.8	41.6	37.4	33.3	25.0	20.8	25.0
80°	54.1	54.1	54.1	45.8	41.6	37.4	33.3	29.1	25.0	20.8	20.8
82.5°	58.2	58.2	54.1	45.8	45.8	37.4	37.4	33.3	29.1	20.8	20.8
85°	0.0	0.0	0.0	8.3	20.8	37.4	37.4	33.3	29.1	25.0	25.0
87.5°	0.0	0.0	0.0	0.0	4.2	8.3	16.6	20.8	25.0	25.0	25.0
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°	10631.4	10631.4	10631.4	10631.4	10631.4	10631.4	10631.4	10631.4	10631.4	10631.4	10631.4
2.5°	9183.9	9342.0	9641.5	9940.9	10123.9	10340.2	10731.2	10939.2	11209.5	11342.6	11604.7
5°	7399.5	7773.9	7907.0	8248.1	8614.1	8980.1	9562.4	10203.0	10735.4	11101.4	11575.6
7.5°	5398.9	5486.2	6002.0	6230.8	6829.7	7495.2	8289.7	9096.6	9770.4	10369.3	10731.2
10°	4047.1	4367.4	4691.8	5128.5	5611.0	6297.3	7058.5	7948.6	8822.1	9421.0	9878.5
12.5°	3252.6	3506.4	3938.9	4408.9	5003.7	5457.1	6222.4	7104.2	8235.6	8822.1	9425.2
15°	2462.4	2786.8	3277.6	3764.2	4392.3	4870.6	5644.3	6754.8	8210.6	9017.5	9537.5
17.5°	1826.0	2046.4	2487.3	3032.2	3672.7	4346.6	5390.6	6717.4	8489.3	9450.1	9986.7
20°	1397.6	1472.4	1751.1	2237.7	2932.4	3814.2	4978.8	6879.6	9312.9	10502.4	11047.3
22.5°	1131.4	1164.6	1272.8	1609.7	2283.5	3348.3	4783.3	6991.9	10240.4	11762.7	12490.6
25°	985.8	977.5	1048.2	1193.7	1784.4	2911.6	4533.7	7416.2	11375.9	13243.5	13896.5
27.5°	898.4	898.4	931.7	1035.7	1480.7	2628.7	4375.7	7719.8	12519.8	14545.4	14898.9
30°	852.7	861.0	956.7	989.9	1231.2	2291.8	4113.6	8027.6	13613.7	15377.2	15863.9
32.5°	790.3	757.0	736.2	819.4	1035.7	1988.2	3851.6	8156.6	14499.6	16396.3	16812.2
35°	607.3	590.6	615.6	678.0	890.1	1730.3	3560.4	8302.1	15518.7	17577.6	17660.8
37.5°	549.0	544.9	561.5	615.6	748.7	1505.7	3352.5	8264.7	16296.5	18555.0	18330.4
40°	507.4	507.4	519.9	565.7	669.7	1347.6	3136.2	8231.4	17049.3	19653.1	18995.9
42.5°	474.2	474.2	495.0	524.1	636.4	1243.7	2974.0	8185.7	17681.5	20326.9	19386.9
45°	428.4	440.9	474.2	503.3	644.7	1172.9	2853.3	8011.0	17897.8	20318.6	19199.7
47.5°	395.1	411.8	445.1	486.6	582.3	1152.1	2770.2	7857.1	17823.0	19819.5	18613.3
50°	357.7	378.5	424.3	495.0	495.0	1110.6	2682.8	7994.3	17768.9	19432.7	18051.7
52°	332.8	349.4	407.6	482.5	432.6	1023.2	2628.7	8260.5	17989.3	19382.7	17802.2
52.5°	328.6	341.1	395.1	474.2	411.8	1006.6	2591.3	8322.9	18060.1	19258.0	17972.7
55°	291.2	307.8	361.9	370.2	336.9	827.7	2470.7	8464.4	17710.7	19012.6	17810.5
57.5°	274.5	282.8	320.3	303.6	291.2	623.9	2125.4	8243.9	15730.8	16887.1	16571.0
60°	253.7	262.0	299.5	237.1	245.4	436.7	1597.2	7158.3	12632.1	14071.2	14641.0
62.5°	245.4	241.2	282.8	191.3	208.0	316.1	1127.2	5819.0	9733.0	11583.9	12569.7
65°	216.3	212.1	203.8	162.2	178.9	245.4	673.8	3797.5	6858.8	8763.8	9304.5
67.5°	166.4	174.7	149.7	128.9	149.7	191.3	374.3	1701.2	3597.9	5257.5	5694.2
70°	116.5	124.8	120.6	112.3	133.1	158.1	216.3	582.3	1489.1	2761.8	3044.7
72.5°	70.7	87.3	91.5	95.7	116.5	137.3	153.9	187.2	395.1	977.5	1214.5
75°	41.6	58.2	70.7	83.2	95.7	116.5	128.9	133.1	137.3	183.0	295.3
77.5°	29.1	41.6	62.4	79.0	95.7	116.5	137.3	145.6	137.3	128.9	137.3
80°	25.0	41.6	58.2	74.9	99.8	120.6	137.3	137.3	133.1	116.5	124.8
82.5°	25.0	41.6	62.4	79.0	95.7	116.5	133.1	137.3	124.8	116.5	120.6
85°	29.1	45.8	66.6	83.2	104.0	95.7	87.3	70.7	66.6	54.1	58.2
87.5°	29.1	41.6	41.6	45.8	49.9	49.9	49.9	45.8	37.4	33.3	33.3
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: P533931

CATALOG NUMBER: GALN-SA9B-827-U-SLR-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10631.4	10631.4	10631.4	10631.4	10631.4	10631.4	10631.4	10631.4	10631.4	10631.4
2.5°	11617.2	11949.9	11937.4	11945.8	11895.8	11558.9	11396.7	10984.9	11101.4	11051.5
5°	12062.2	12390.8	12673.6	12640.4	12257.7	11800.2	11122.2	10481.7	10307.0	10049.1
7.5°	11617.2	12407.4	12669.5	12632.1	12066.4	11479.9	10398.5	9757.9	9454.3	9283.7
10°	10910.1	11825.1	12149.6	12216.1	11833.5	10943.3	9949.3	8921.9	8759.7	8464.4
12.5°	10506.6	11172.1	11371.8	11550.6	11417.5	10752.0	9608.2	8622.4	8397.8	8202.3
15°	10178.0	10573.2	10656.3	10860.2	10939.2	10581.5	9787.0	8946.8	8393.6	8372.8
17.5°	10481.7	10319.4	10015.8	10078.2	10327.8	10585.6	10248.7	9587.4	9050.8	8984.3
20°	10984.9	10269.5	9583.2	9737.1	9945.1	10735.4	10947.5	10481.7	10173.9	10003.3
22.5°	11563.1	10356.9	9446.0	9520.8	9916.0	11072.3	12078.9	11821.0	11247.0	11001.6
25°	12632.1	10598.1	9554.1	9604.0	10144.7	11542.3	13102.1	13293.4	12952.3	12902.4
27.5°	13676.1	11222.0	9791.2	9678.9	10261.2	11999.8	13721.8	14749.2	14150.2	14033.8
30°	14208.5	11729.5	10144.7	9953.4	10743.7	12278.5	14096.2	15697.5	15173.4	15119.4
32.5°	15023.7	12191.2	10419.3	10173.9	11014.1	12623.7	14794.9	16733.2	16225.8	15955.4
35°	15364.8	12694.4	11022.4	10735.4	11787.7	13106.2	15152.6	17656.6	17498.5	17236.5
37.5°	16022.0	13235.2	11733.6	11717.0	12723.6	13734.3	15797.3	18912.7	18883.6	18430.2
40°	16076.0	13825.8	12856.7	13380.7	14171.0	14828.2	16363.0	19262.1	19736.3	19428.5
42.5°	16159.2	14861.5	14799.1	15231.7	15909.7	15768.2	16383.8	19345.3	20069.0	19886.0
45°	16196.6	15897.2	16774.8	17573.4	17856.2	16999.4	16188.3	19187.2	20243.7	19786.2
47.5°	15897.2	16787.3	18372.0	19915.1	19998.3	17756.4	16105.1	19025.0	20347.7	20044.1
50°	15938.8	17344.6	19752.9	21133.8	20830.2	18426.1	15976.2	18925.2	20293.6	20089.8
52°	15838.9	17357.1	19948.4	21108.9	20896.8	18055.9	15755.8	18542.5	20243.7	20389.3
52.5°	15951.2	17282.2	19744.6	21125.5	20851.0	18238.9	15726.6	18754.7	20272.8	19977.5
55°	15564.4	16392.1	18550.9	19137.3	19095.7	16554.4	14832.4	18051.7	19511.7	19515.8
57.5°	14067.0	14208.5	14549.5	14537.1	14345.7	13014.7	12686.1	16600.1	17394.6	16962.0
60°	12395.0	10402.6	9483.4	9109.1	8896.9	8680.6	11222.0	15185.9	15260.8	15077.8
62.5°	10710.4	7212.4	5989.5	5885.5	5935.4	6725.7	10847.7	14624.4	14175.2	13780.0
65°	8643.2	5257.5	4350.7	4213.5	4700.1	5552.8	8780.5	11213.7	10523.2	10194.7
67.5°	5428.0	3835.0	2940.7	2682.8	3269.3	3822.5	5769.1	7046.0	6272.4	5819.0
70°	3219.4	2142.1	1331.0	1193.7	1343.5	2038.1	3231.8	3514.7	2907.4	2674.5
72.5°	1268.6	786.1	370.2	316.1	328.6	715.4	1189.6	1160.5	877.6	782.0
75°	341.1	237.1	128.9	104.0	87.3	133.1	191.3	124.8	45.8	58.2
77.5°	158.1	141.4	112.3	87.3	66.6	49.9	25.0	8.3	8.3	4.2
80°	137.3	120.6	104.0	87.3	66.6	41.6	20.8	4.2	4.2	4.2
82.5°	128.9	112.3	95.7	79.0	62.4	41.6	20.8	4.2	0.0	0.0
85°	54.1	70.7	79.0	74.9	66.6	41.6	20.8	4.2	0.0	0.0
87.5°	29.1	25.0	20.8	16.6	12.5	8.3	8.3	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)