

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: P532995

Luminaire Tested: **GALN-SA8B-827-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532995  
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-SA8B-827-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 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: 18674 lumens  
Efficiency: N/A  
Efficacy: 57.5 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

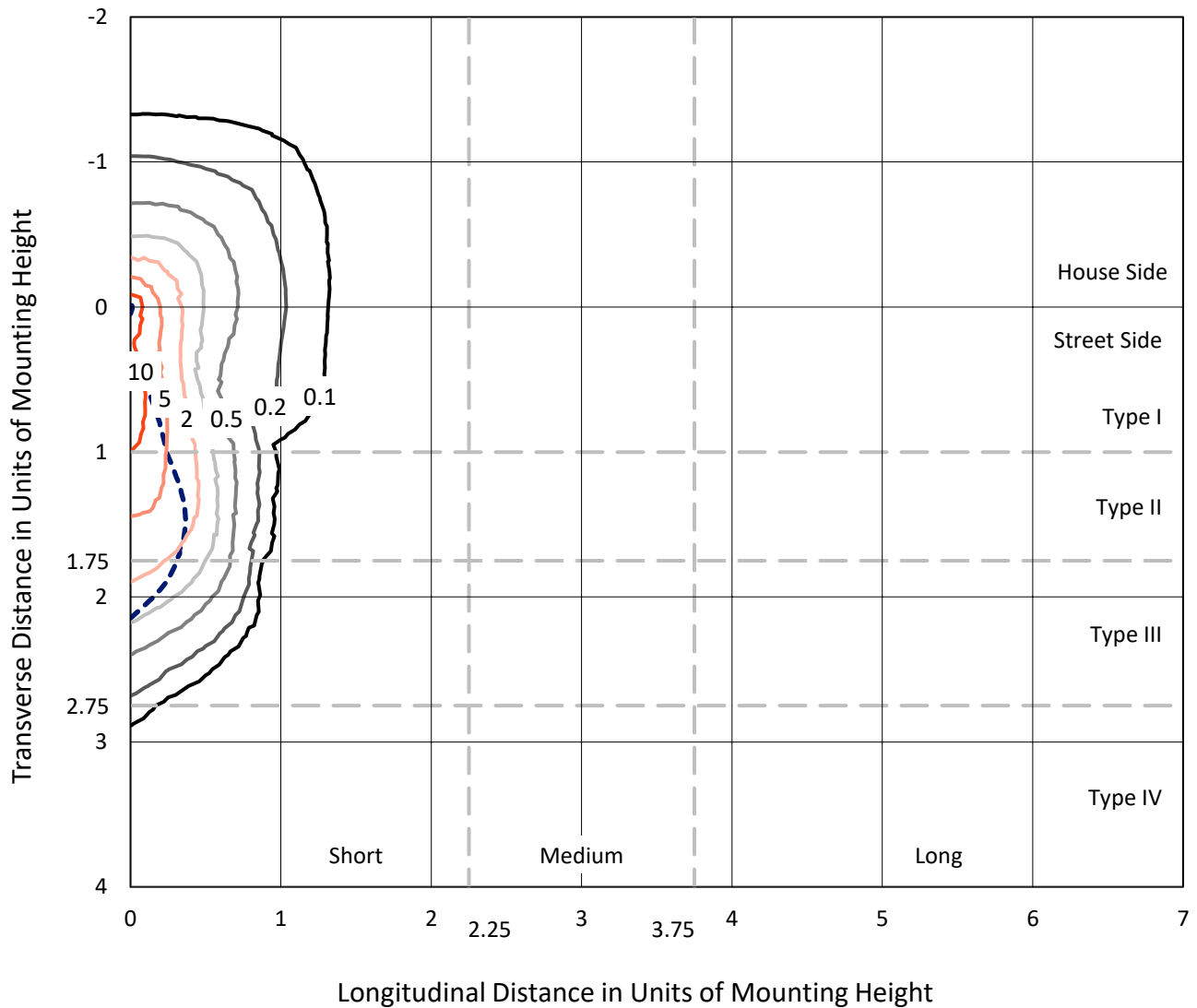
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

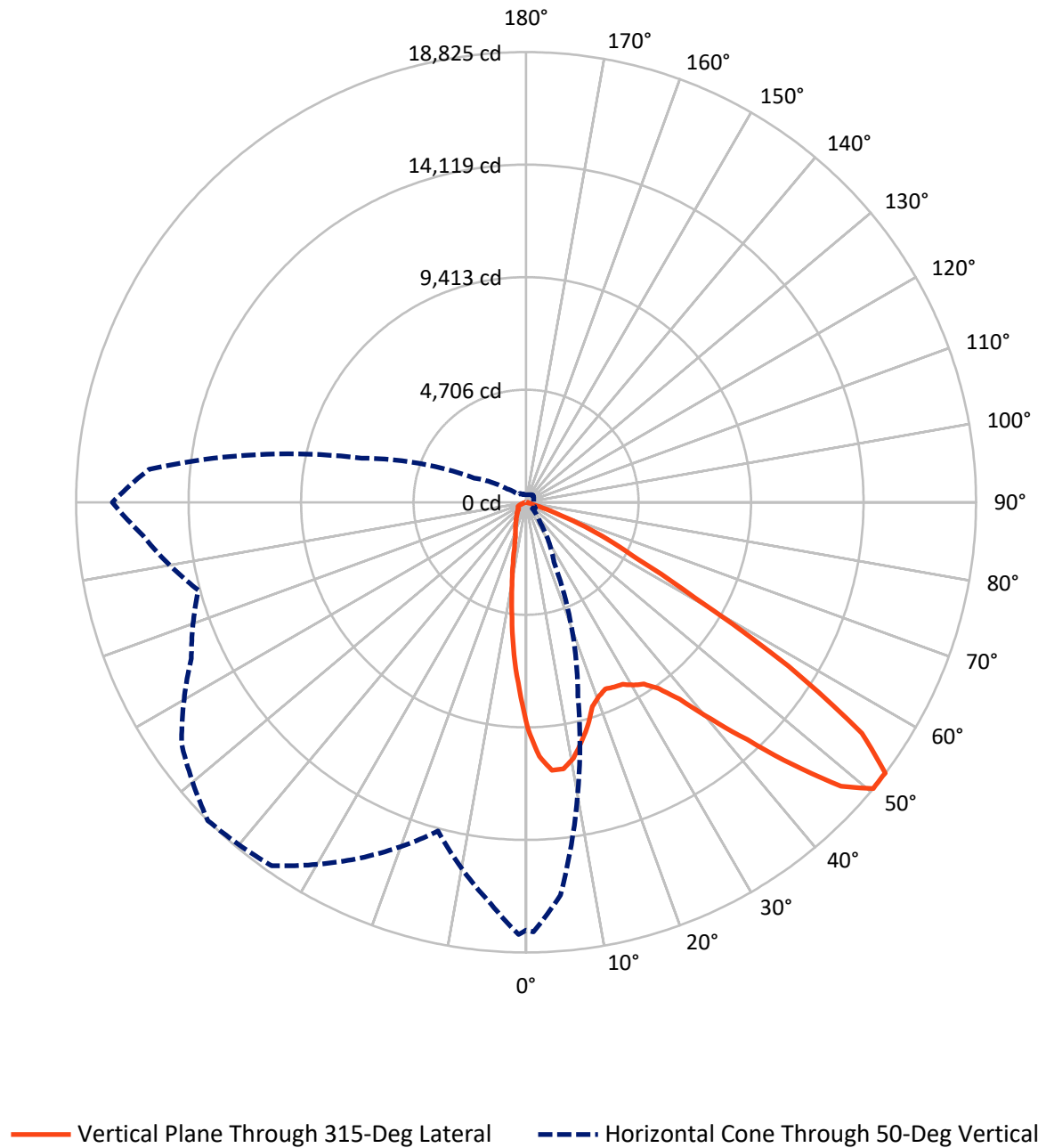
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 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	3740.4	0.0	3740.4
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	14933.6	0.0	14933.6
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	18674.0	0.0	18674.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	690.3	3.7
10°-20°	1371.9	7.3
20°-30°	2061.0	11.0
30°-40°	3093.5	16.6
40°-50°	4347.6	23.3
50°-60°	4689.7	25.1
60°-70°	2177.4	11.7
70°-80°	204.9	1.1
80°-90°	37.8	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°	18674.0	100.0
0°-180°	18674.0	100.0

**Coefficient of Utilization**



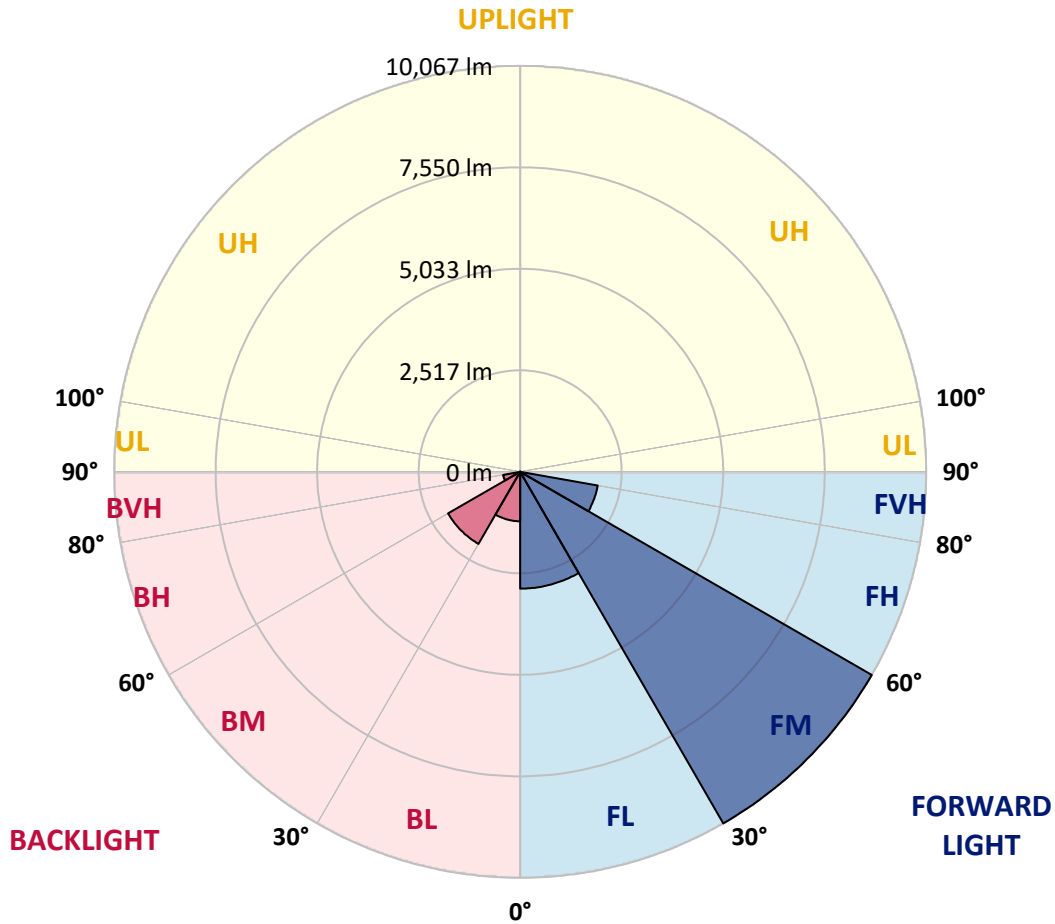
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2897.1	15.5			
FM (30°-60°)	10066.7	53.9			
FH (60°-80°)	1952.8	10.5			G2/5000
FVH (80°-90°)	17.0	0.1			G1/100
BL (0°-30°)	1226.0	6.6	B3/2500		
BM (30°-60°)	2064.1	11.1	B2/2500		
BH (60°-80°)	429.5	2.3	B1/500		G1/500
BVH (80°-90°)	20.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	9470.1	9470.1	9470.1	9470.1	9470.1	9470.1	9470.1	9470.1	9470.1	9470.1	9470.1
2.5°	9844.3	9692.4	9499.7	9340.4	9103.3	8625.3	8495.6	8340.0	8210.4	8036.2	7791.7
5°	8951.4	8903.2	8814.3	8214.1	7780.6	7202.6	6728.3	6528.3	6265.2	6050.3	5894.7
7.5°	8269.6	8077.0	7795.4	7191.5	6498.6	5879.9	5353.8	5046.3	4698.0	4579.4	4368.2
10°	7539.7	7584.2	7169.2	6320.8	5483.5	4983.3	4657.2	4360.8	4045.9	3838.4	3538.3
12.5°	7306.3	7161.8	6843.2	5794.7	5079.6	4612.8	4216.3	3849.5	3516.1	3182.6	2893.6
15°	7458.2	7235.9	6791.3	5683.5	4768.4	4186.7	3690.2	3193.7	2886.2	2460.1	2160.0
17.5°	8002.9	7825.0	7228.5	5802.1	4609.1	3779.1	3041.8	2530.5	2060.0	1674.7	1522.8
20°	8910.6	8658.7	7910.3	5954.0	4371.9	3286.4	2467.6	1837.7	1393.1	1230.1	1144.9
22.5°	9799.8	9662.7	8717.9	6246.7	4160.8	2849.2	1852.5	1237.5	1041.1	1011.5	955.9
25°	11493.0	11081.8	9951.7	6776.5	3997.7	2437.9	1396.8	996.7	881.8	859.6	867.0
27.5°	12500.8	12156.2	11092.9	7128.5	3816.2	2123.0	1181.9	915.1	837.3	789.2	770.6
30°	13467.8	13067.7	11659.7	7336.0	3427.2	1789.5	1048.5	878.1	859.6	789.2	766.9
32.5°	14212.5	13819.8	12478.6	7647.2	3267.8	1574.6	863.3	685.4	637.3	629.9	696.5
35°	15353.7	14935.0	13178.8	7817.6	3145.6	1463.5	748.4	611.3	555.8	533.5	537.2
37.5°	16417.0	16131.7	13827.2	7884.3	3015.9	1430.1	670.6	548.3	500.2	485.4	481.7
40°	17306.2	16669.0	14442.2	7954.7	2960.3	1367.2	622.4	500.2	466.8	444.6	444.6
42.5°	17713.8	17065.4	15131.4	7914.0	2945.5	1267.1	622.4	459.4	433.5	411.3	407.6
45°	17624.9	17361.8	15438.9	7895.4	2945.5	1167.1	566.9	448.3	411.3	381.6	374.2
47.5°	17854.6	17510.0	15824.2	7973.2	2886.2	1096.7	477.9	470.5	389.0	352.0	344.6
50°	17895.3	17962.0	16494.8	8377.1	2756.5	1007.8	374.2	463.1	374.2	318.6	311.2
52°	18162.1	17747.1	16698.6	8592.0	2619.5	941.1	314.9	396.4	359.4	296.4	289.0
52.5°	17795.3	18065.8	16746.8	8669.8	2634.3	896.6	303.8	389.0	352.0	296.4	277.9
55°	17384.0	17643.4	16550.4	8836.5	2415.7	704.0	237.1	281.6	318.6	259.4	248.2
57.5°	15109.1	15372.2	14382.9	8091.8	1967.4	496.5	196.4	211.2	281.6	240.8	229.7
60°	13430.8	13241.8	12071.0	6750.6	1396.8	277.9	155.6	163.0	307.5	222.3	218.6
62.5°	12274.8	11870.9	10088.8	5213.0	852.2	185.3	122.3	126.0	237.1	207.5	207.5
65°	9081.0	8629.0	6702.4	3153.0	418.7	129.7	92.6	100.0	148.2	177.8	177.8
67.5°	5183.3	5009.2	3238.2	1422.7	174.1	81.5	70.4	77.8	114.9	144.5	137.1
70°	2382.3	2137.8	1244.9	300.1	81.5	55.6	55.6	63.0	92.6	107.4	100.0
72.5°	696.5	659.5	303.8	48.2	33.3	33.3	37.1	48.2	70.4	81.5	74.1
75°	51.9	33.3	22.2	14.8	14.8	22.2	29.6	48.2	70.4	77.8	63.0
77.5°	3.7	7.4	3.7	3.7	11.1	22.2	33.3	59.3	92.6	96.3	70.4
80°	3.7	3.7	0.0	3.7	11.1	22.2	37.1	66.7	103.7	111.2	59.3
82.5°	0.0	0.0	0.0	3.7	14.8	29.6	44.5	70.4	96.3	118.6	63.0
85°	0.0	0.0	0.0	3.7	22.2	40.8	51.9	18.5	11.1	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°	9470.1	9470.1	9470.1	9470.1	9470.1	9470.1	9470.1	9470.1	9470.1	9470.1	9470.1
2.5°	7965.8	7869.5	7832.4	7865.8	7854.7	7843.6	8047.3	8002.9	7995.5	8062.2	8047.3
5°	5979.9	5809.5	6276.3	6087.4	6283.7	6402.3	6424.5	6435.6	6572.7	6428.2	6617.2
7.5°	4260.8	4305.3	4301.5	4427.5	4653.5	4853.6	4972.2	4879.5	4872.1	4853.6	4772.1
10°	3404.9	3327.1	3312.3	3282.7	3353.1	3523.5	3668.0	3553.1	3471.6	3582.8	3549.4
12.5°	2782.5	2675.0	2615.8	2497.2	2500.9	2615.8	2615.8	2615.8	2697.3	2760.3	2808.4
15°	2134.1	2045.2	2045.2	1926.6	1900.7	1904.4	1963.7	1971.1	2100.8	2137.8	2156.3
17.5°	1493.1	1445.0	1500.5	1548.7	1519.1	1526.5	1548.7	1556.1	1574.6	1559.8	1596.9
20°	1148.6	1141.2	1156.0	1241.2	1304.2	1341.2	1315.3	1278.2	1256.0	1204.1	1204.1
22.5°	974.4	989.2	1015.2	1085.6	1167.1	1189.3	1159.7	1074.5	1007.8	1000.4	1004.1
25°	867.0	881.8	922.6	967.0	1011.5	1048.5	1018.9	955.9	918.8	885.5	885.5
27.5°	800.3	807.7	829.9	863.3	900.3	930.0	918.8	885.5	844.7	829.9	796.6
30°	748.4	759.5	785.5	792.9	826.2	841.0	822.5	815.1	789.2	770.6	759.5
32.5°	722.5	718.8	737.3	744.7	748.4	759.5	737.3	748.4	744.7	715.1	704.0
35°	544.6	574.3	622.4	663.2	674.3	689.1	685.4	670.6	629.9	596.5	555.8
37.5°	489.1	507.6	533.5	566.9	611.3	629.9	622.4	585.4	537.2	515.0	507.6
40°	452.0	463.1	485.4	507.6	552.1	585.4	559.5	526.1	489.1	470.5	459.4
42.5°	418.7	422.4	433.5	455.7	489.1	540.9	496.5	452.0	437.2	426.1	418.7
45°	381.6	381.6	396.4	407.6	444.6	492.8	448.3	407.6	400.1	392.7	389.0
47.5°	352.0	355.7	363.1	377.9	407.6	440.9	411.3	377.9	359.4	355.7	348.3
50°	314.9	318.6	333.5	348.3	385.3	403.8	385.3	348.3	329.7	318.6	318.6
52°	285.3	296.4	311.2	340.9	366.8	396.4	374.2	333.5	311.2	300.1	292.7
52.5°	281.6	289.0	303.8	337.2	366.8	392.7	370.5	329.7	303.8	296.4	289.0
55°	251.9	263.1	289.0	329.7	363.1	392.7	363.1	326.0	289.0	270.5	263.1
57.5°	240.8	248.2	281.6	333.5	359.4	392.7	363.1	326.0	289.0	255.6	248.2
60°	229.7	244.5	281.6	322.3	355.7	396.4	366.8	322.3	281.6	240.8	240.8
62.5°	218.6	229.7	277.9	314.9	340.9	381.6	352.0	314.9	270.5	229.7	226.0
65°	189.0	207.5	244.5	263.1	292.7	329.7	300.1	274.2	237.1	203.8	200.1
67.5°	144.5	151.9	181.5	203.8	222.3	255.6	240.8	207.5	181.5	155.6	155.6
70°	100.0	107.4	129.7	140.8	159.3	177.8	166.7	140.8	122.3	107.4	103.7
72.5°	70.4	74.1	81.5	88.9	96.3	103.7	100.0	81.5	70.4	66.7	63.0
75°	55.6	63.0	66.7	63.0	59.3	55.6	55.6	48.2	40.8	37.1	37.1
77.5°	55.6	59.3	55.6	48.2	40.8	37.1	33.3	29.6	22.2	18.5	22.2
80°	48.2	48.2	48.2	40.8	37.1	33.3	29.6	25.9	22.2	18.5	18.5
82.5°	51.9	51.9	48.2	40.8	40.8	33.3	33.3	29.6	25.9	18.5	18.5
85°	0.0	0.0	0.0	7.4	18.5	33.3	33.3	29.6	25.9	22.2	22.2
87.5°	0.0	0.0	0.0	0.0	3.7	7.4	14.8	18.5	22.2	22.2	22.2
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°	9470.1	9470.1	9470.1	9470.1	9470.1	9470.1	9470.1	9470.1	9470.1	9470.1	9470.1
2.5°	8180.7	8321.5	8588.3	8855.0	9018.1	9210.7	9559.0	9744.2	9985.1	10103.6	10337.1
5°	6591.3	6924.7	7043.3	7347.1	7673.1	7999.2	8517.9	9088.5	9562.7	9888.7	10311.1
7.5°	4809.1	4886.9	5346.4	5550.1	6083.7	6676.5	7384.1	8102.9	8703.1	9236.7	9559.0
10°	3605.0	3890.3	4179.3	4568.3	4998.1	5609.4	6287.4	7080.3	7858.4	8391.9	8799.5
12.5°	2897.3	3123.3	3508.7	3927.3	4457.2	4861.0	5542.7	6328.2	7336.0	7858.4	8395.6
15°	2193.4	2482.4	2919.6	3353.1	3912.5	4338.6	5027.7	6017.0	7313.7	8032.5	8495.6
17.5°	1626.5	1822.9	2215.6	2701.0	3271.5	3871.8	4801.7	5983.6	7562.0	8417.8	8895.8
20°	1244.9	1311.6	1559.8	1993.3	2612.1	3397.5	4434.9	6128.1	8295.6	9355.2	9840.6
22.5°	1007.8	1037.4	1133.7	1433.8	2034.1	2982.6	4260.8	6228.2	9121.8	10477.8	11126.2
25°	878.1	870.7	933.7	1063.3	1589.5	2593.5	4038.5	6606.1	10133.3	11796.8	12378.5
27.5°	800.3	800.3	829.9	922.6	1319.0	2341.6	3897.7	6876.5	11152.2	12956.5	13271.4
30°	759.5	766.9	852.2	881.8	1096.7	2041.5	3664.3	7150.7	12126.6	13697.5	14131.0
32.5°	704.0	674.3	655.8	729.9	922.6	1771.0	3430.9	7265.6	12915.8	14605.3	14975.8
35°	540.9	526.1	548.3	603.9	792.9	1541.3	3171.5	7395.3	13823.5	15657.5	15731.6
37.5°	489.1	485.4	500.2	548.3	666.9	1341.2	2986.3	7361.9	14516.3	16528.2	16328.1
40°	452.0	452.0	463.1	503.9	596.5	1200.4	2793.6	7332.3	15186.9	17506.3	16920.9
42.5°	422.4	422.4	440.9	466.8	566.9	1107.8	2649.1	7291.5	15750.1	18106.5	17269.2
45°	381.6	392.7	422.4	448.3	574.3	1044.8	2541.7	7135.9	15942.8	18099.1	17102.4
47.5°	352.0	366.8	396.4	433.5	518.7	1026.3	2467.6	6998.8	15876.1	17654.5	16580.0
50°	318.6	337.2	377.9	440.9	440.9	989.2	2389.7	7121.1	15827.9	17309.9	16079.9
52°	296.4	311.2	363.1	429.8	385.3	911.4	2341.6	7358.2	16024.3	17265.5	15857.6
52.5°	292.7	303.8	352.0	422.4	366.8	896.6	2308.2	7413.8	16087.3	17154.3	16009.5
55°	259.4	274.2	322.3	329.7	300.1	737.3	2200.8	7539.7	15776.0	16935.7	15865.0
57.5°	244.5	251.9	285.3	270.5	259.4	555.8	1893.3	7343.4	14012.4	15042.4	14760.9
60°	226.0	233.4	266.8	211.2	218.6	389.0	1422.7	6376.4	11252.2	12534.1	13041.7
62.5°	218.6	214.9	251.9	170.4	185.3	281.6	1004.1	5183.3	8669.8	10318.5	11196.6
65°	192.7	189.0	181.5	144.5	159.3	218.6	600.2	3382.7	6109.6	7806.5	8288.2
67.5°	148.2	155.6	133.4	114.9	133.4	170.4	333.5	1515.4	3204.9	4683.2	5072.2
70°	103.7	111.2	107.4	100.0	118.6	140.8	192.7	518.7	1326.4	2460.1	2712.1
72.5°	63.0	77.8	81.5	85.2	103.7	122.3	137.1	166.7	352.0	870.7	1081.9
75°	37.1	51.9	63.0	74.1	85.2	103.7	114.9	118.6	122.3	163.0	263.1
77.5°	25.9	37.1	55.6	70.4	85.2	103.7	122.3	129.7	122.3	114.9	122.3
80°	22.2	37.1	51.9	66.7	88.9	107.4	122.3	122.3	118.6	103.7	111.2
82.5°	22.2	37.1	55.6	70.4	85.2	103.7	118.6	122.3	111.2	103.7	107.4
85°	25.9	40.8	59.3	74.1	92.6	85.2	77.8	63.0	59.3	48.2	51.9
87.5°	25.9	37.1	37.1	40.8	44.5	44.5	44.5	40.8	33.3	29.6	29.6
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: P532995

CATALOG NUMBER: GALN-SA8B-827-U-SLR-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9470.1	9470.1	9470.1	9470.1	9470.1	9470.1	9470.1	9470.1	9470.1	9470.1
2.5°	10348.2	10644.6	10633.5	10640.9	10596.4	10296.3	10151.8	9785.0	9888.7	9844.3
5°	10744.6	11037.3	11289.2	11259.6	10918.7	10511.2	9907.3	9336.7	9181.1	8951.4
7.5°	10348.2	11052.1	11285.5	11252.2	10748.3	10225.9	9262.6	8692.0	8421.5	8269.6
10°	9718.3	10533.4	10822.4	10881.7	10540.8	9747.9	8862.4	7947.3	7802.8	7539.7
12.5°	9358.9	9951.7	10129.6	10288.9	10170.3	9577.5	8558.6	7680.5	7480.5	7306.3
15°	9066.2	9418.2	9492.3	9673.8	9744.2	9425.6	8717.9	7969.5	7476.8	7458.2
17.5°	9336.7	9192.2	8921.7	8977.3	9199.6	9429.3	9129.2	8540.1	8062.2	8002.9
20°	9785.0	9147.7	8536.4	8673.5	8858.7	9562.7	9751.7	9336.7	9062.5	8910.6
22.5°	10300.0	9225.5	8414.1	8480.8	8832.8	9862.8	10759.4	10529.7	10018.4	9799.8
25°	11252.2	9440.4	8510.5	8554.9	9036.6	10281.5	11670.9	11841.3	11537.5	11493.0
27.5°	12182.2	9996.2	8721.7	8621.6	9140.3	10689.0	12222.9	13138.1	12604.5	12500.8
30°	12656.4	10448.2	9036.6	8866.2	9570.1	10937.3	12556.4	13982.8	13516.0	13467.8
32.5°	13382.6	10859.5	9281.1	9062.5	9810.9	11244.8	13178.8	14905.4	14453.3	14212.5
35°	13686.4	11307.8	9818.3	9562.7	10500.1	11674.6	13497.4	15727.9	15587.1	15353.7
37.5°	14271.8	11789.4	10451.9	10437.1	11333.7	12234.0	14071.7	16846.8	16820.9	16417.0
40°	14320.0	12315.5	11452.3	11919.1	12623.1	13208.5	14575.6	17158.0	17580.4	17306.2
42.5°	14394.1	13238.1	13182.5	13567.8	14171.8	14045.8	14594.1	17232.1	17876.8	17713.8
45°	14427.4	14160.6	14942.4	15653.8	15905.7	15142.5	14420.0	17091.3	18032.4	17624.9
47.5°	14160.6	14953.5	16365.1	17739.7	17813.8	15816.8	14345.9	16946.8	18125.0	17854.6
50°	14197.7	15450.0	17595.2	18825.3	18554.8	16413.3	14231.0	16857.9	18076.9	17895.3
52°	14108.8	15461.1	17769.4	18803.1	18614.1	16083.6	14034.7	16517.1	18032.4	18162.1
52.5°	14208.8	15394.4	17587.8	18817.9	18573.3	16246.6	14008.7	16706.0	18058.3	17795.3
55°	13864.2	14601.5	16524.5	17046.9	17009.8	14746.0	13212.2	16079.9	17380.3	17384.0
57.5°	12530.4	12656.4	12960.2	12949.1	12778.7	11593.1	11300.4	14786.8	15494.5	15109.1
60°	11041.0	9266.3	8447.5	8114.0	7925.1	7732.4	9996.2	13527.1	13593.8	13430.8
62.5°	9540.5	6424.5	5335.3	5242.6	5287.1	5991.0	9662.7	13026.9	12626.8	12274.8
65°	7699.1	4683.2	3875.5	3753.2	4186.7	4946.2	7821.3	9988.8	9373.7	9081.0
67.5°	4835.1	3416.0	2619.5	2389.7	2912.2	3404.9	5138.9	6276.3	5587.2	5183.3
70°	2867.7	1908.1	1185.6	1063.3	1196.7	1815.5	2878.8	3130.8	2589.8	2382.3
72.5°	1130.0	700.3	329.7	281.6	292.7	637.3	1059.6	1033.7	781.8	696.5
75°	303.8	211.2	114.9	92.6	77.8	118.6	170.4	111.2	40.8	51.9
77.5°	140.8	126.0	100.0	77.8	59.3	44.5	22.2	7.4	7.4	3.7
80°	122.3	107.4	92.6	77.8	59.3	37.1	18.5	3.7	3.7	3.7
82.5°	114.9	100.0	85.2	70.4	55.6	37.1	18.5	3.7	0.0	0.0
85°	48.2	63.0	70.4	66.7	59.3	37.1	18.5	3.7	0.0	0.0
87.5°	25.9	22.2	18.5	14.8	11.1	7.4	7.4	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)