

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: P533697

Luminaire Tested: **GALN-SA9A-827-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533697  
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-SA9A-827-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 615mA 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: 16848 lumens  
Efficiency: N/A  
Efficacy: 61.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G1

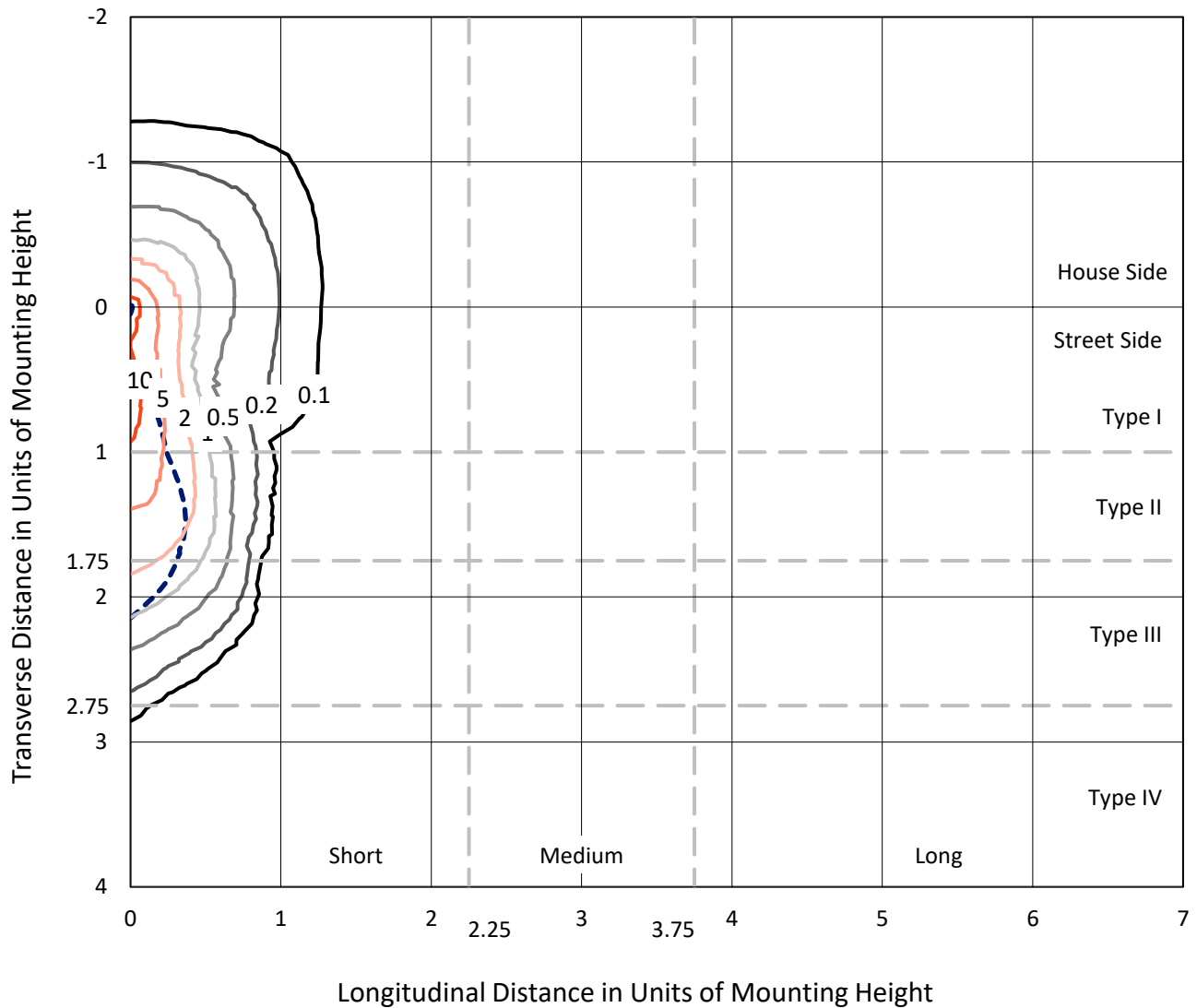
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

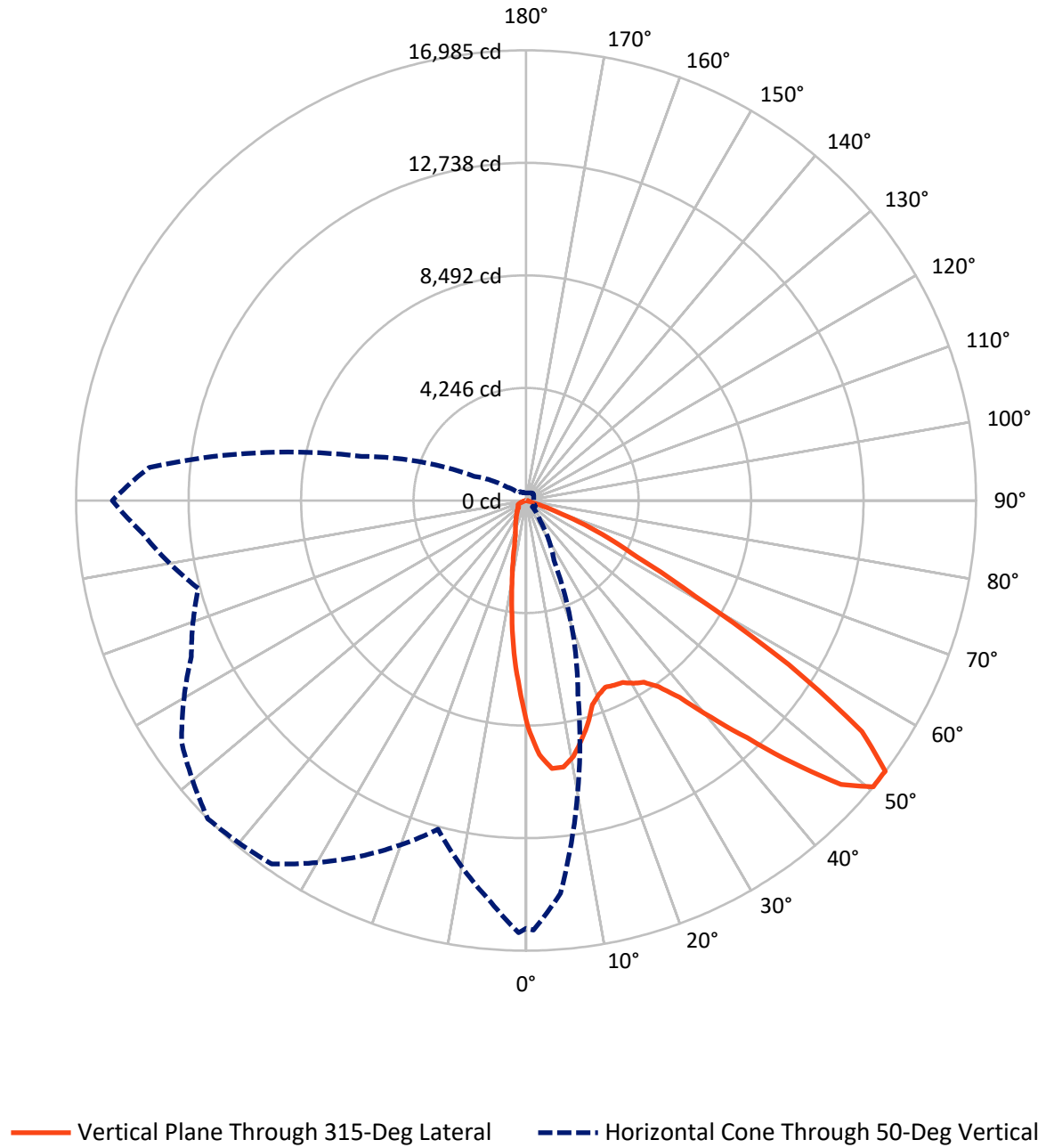
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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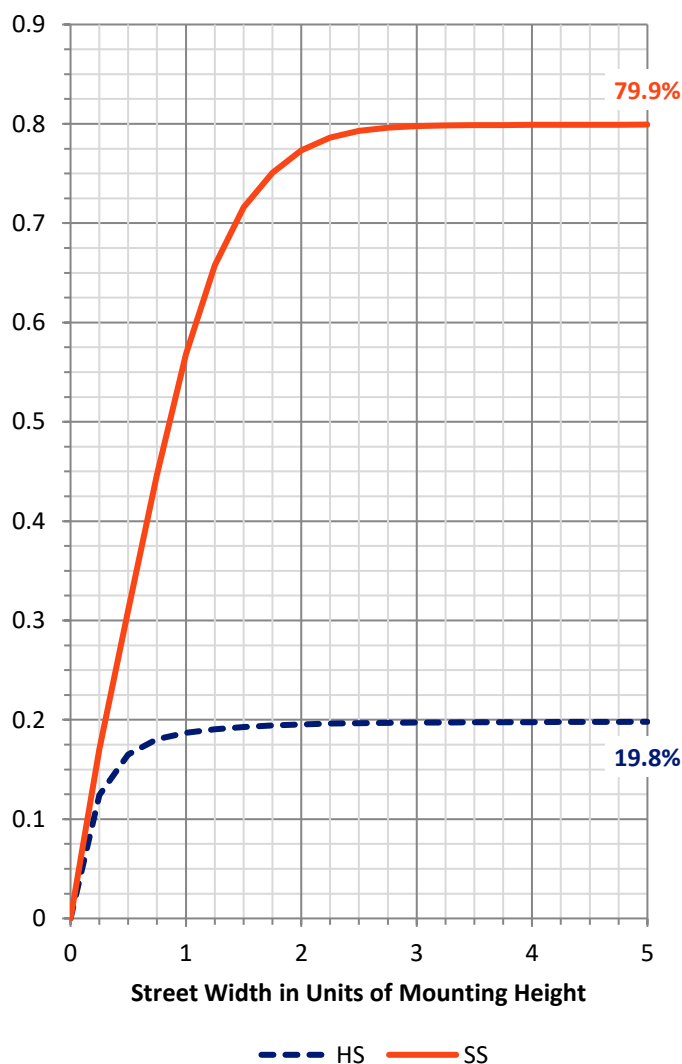
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3374.7	0.0	3374.7
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	13473.3	0.0	13473.3
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	16848.0	0.0	16848.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	622.8	3.7
10°-20°	1237.7	7.3
20°-30°	1859.4	11.0
30°-40°	2791.0	16.6
40°-50°	3922.5	23.3
50°-60°	4231.1	25.1
60°-70°	1964.5	11.7
70°-80°	184.8	1.1
80°-90°	34.1	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°	16848.0	100.0
0°-180°	16848.0	100.0

**Coefficient of Utilization**



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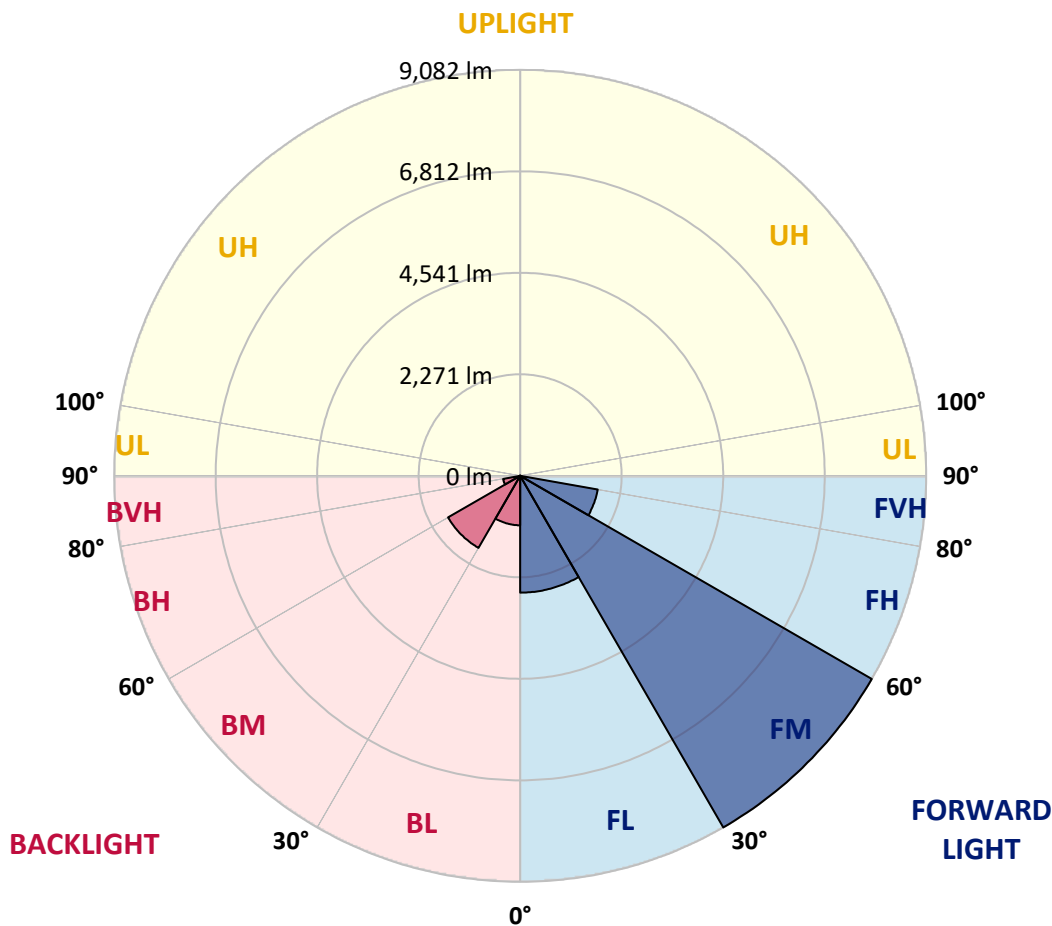
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2613.8	15.5			
FM (30°-60°)	9082.3	53.9			
FH (60°-80°)	1761.8	10.5			G1/1800
FVH (80°-90°)	15.3	0.1			G1/100
BL (0°-30°)	1106.1	6.6	B3/2500		
BM (30°-60°)	1862.3	11.1	B2/2500		
BH (60°-80°)	387.5	2.3	B1/500		G1/500
BVH (80°-90°)	18.7	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-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8544.1	8544.1	8544.1	8544.1	8544.1	8544.1	8544.1	8544.1	8544.1	8544.1	8544.1
2.5°	8881.7	8744.6	8570.8	8427.1	8213.1	7781.9	7664.9	7524.5	7407.5	7250.4	7029.8
5°	8076.1	8032.6	7952.4	7410.9	7019.8	6498.3	6070.4	5889.9	5652.6	5458.7	5318.3
7.5°	7461.0	7287.2	7033.1	6488.3	5863.2	5304.9	4830.3	4552.8	4238.6	4131.6	3941.1
10°	6802.5	6842.6	6468.2	5702.7	4947.3	4496.0	4201.8	3934.4	3650.3	3463.1	3192.3
12.5°	6591.9	6461.5	6174.1	5228.1	4582.9	4161.7	3804.0	3473.1	3172.3	2871.4	2610.7
15°	6728.9	6528.4	6127.3	5127.8	4302.1	3777.3	3329.4	2881.4	2604.0	2219.6	1948.8
17.5°	7220.3	7059.9	6521.7	5234.7	4158.4	3409.6	2744.4	2283.1	1858.6	1510.9	1373.9
20°	8039.3	7812.0	7136.8	5371.8	3944.4	2965.0	2226.3	1658.0	1256.9	1109.8	1032.9
22.5°	8841.6	8717.9	7865.5	5635.9	3753.9	2570.6	1671.4	1116.5	939.3	912.6	862.4
25°	10369.2	9998.2	8978.6	6113.9	3606.8	2199.5	1260.2	899.2	795.6	775.5	782.2
27.5°	11278.4	10967.6	10008.2	6431.4	3443.0	1915.4	1066.3	825.7	755.5	712.0	695.3
30°	12150.9	11789.9	10519.6	6618.6	3092.0	1614.5	946.0	792.2	775.5	712.0	691.9
32.5°	12822.8	12468.4	11258.4	6899.4	2948.3	1420.7	778.9	618.4	575.0	568.3	628.4
35°	13852.3	13474.6	11890.1	7053.2	2838.0	1320.4	675.2	551.6	501.4	481.4	484.7
37.5°	14811.7	14554.3	12475.1	7113.4	2721.0	1290.3	605.0	494.7	451.3	437.9	434.6
40°	15614.0	15039.0	13030.0	7176.9	2670.9	1233.5	561.6	451.3	421.2	401.1	401.1
42.5°	15981.7	15396.7	13651.8	7140.1	2657.5	1143.2	561.6	414.5	391.1	371.0	367.7
45°	15901.4	15664.1	13929.2	7123.4	2657.5	1053.0	511.4	404.5	371.0	344.3	337.6
47.5°	16108.7	15797.8	14276.9	7193.6	2604.0	989.5	431.2	424.5	351.0	317.6	310.9
50°	16145.5	16205.6	14881.9	7557.9	2487.0	909.2	337.6	417.8	337.6	287.5	280.8
52°	16386.1	16011.8	15065.8	7751.8	2363.3	849.1	284.1	357.7	324.2	267.4	260.7
52.5°	16055.2	16299.2	15109.2	7822.0	2376.7	808.9	274.1	351.0	317.6	267.4	250.7
55°	15684.2	15918.2	14932.0	7972.5	2179.5	635.1	213.9	254.0	287.5	234.0	224.0
57.5°	13631.7	13869.1	12976.5	7300.6	1775.0	447.9	177.2	190.5	254.0	217.3	207.3
60°	12117.5	11947.0	10890.7	6090.5	1260.2	250.7	140.4	147.1	277.4	200.6	197.2
62.5°	11074.5	10710.2	9102.3	4703.2	768.8	167.1	110.3	113.7	213.9	187.2	187.2
65°	8193.1	7785.3	6047.0	2844.7	377.7	117.0	83.6	90.3	133.7	160.5	160.5
67.5°	4676.5	4519.4	2921.6	1283.6	157.1	73.5	63.5	70.2	103.6	130.4	123.7
70°	2149.4	1928.8	1123.2	270.8	73.5	50.1	50.1	56.8	83.6	96.9	90.3
72.5°	628.4	595.0	274.1	43.5	30.1	30.1	33.4	43.5	63.5	73.5	66.9
75°	46.8	30.1	20.1	13.4	13.4	20.1	26.7	43.5	63.5	70.2	56.8
77.5°	3.3	6.7	3.3	3.3	10.0	20.1	30.1	53.5	83.6	86.9	63.5
80°	3.3	3.3	0.0	3.3	10.0	20.1	33.4	60.2	93.6	100.3	53.5
82.5°	0.0	0.0	0.0	3.3	13.4	26.7	40.1	63.5	86.9	107.0	56.8
85°	0.0	0.0	0.0	3.3	20.1	36.8	46.8	16.7	10.0	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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8544.1	8544.1	8544.1	8544.1	8544.1	8544.1	8544.1	8544.1	8544.1	8544.1	8544.1
2.5°	7186.9	7100.0	7066.6	7096.7	7086.6	7076.6	7260.4	7220.3	7213.6	7273.8	7260.4
5°	5395.2	5241.4	5662.6	5492.1	5669.3	5776.3	5796.3	5806.4	5930.0	5799.7	5970.1
7.5°	3844.2	3884.3	3880.9	3994.6	4198.5	4379.0	4486.0	4402.4	4395.7	4379.0	4305.5
10°	3072.0	3001.8	2988.4	2961.7	3025.2	3179.0	3309.3	3205.7	3132.2	3232.4	3202.4
12.5°	2510.4	2413.5	2360.0	2253.0	2256.4	2360.0	2360.0	2360.0	2433.5	2490.3	2533.8
15°	1925.4	1845.2	1845.2	1738.2	1714.8	1718.2	1771.7	1778.3	1895.3	1928.8	1945.5
17.5°	1347.1	1303.7	1353.8	1397.3	1370.5	1377.2	1397.3	1404.0	1420.7	1407.3	1440.7
20°	1036.3	1029.6	1042.9	1119.8	1176.6	1210.1	1186.7	1153.2	1133.2	1086.4	1086.4
22.5°	879.1	892.5	915.9	979.4	1053.0	1073.0	1046.3	969.4	909.2	902.5	905.9
25°	782.2	795.6	832.3	872.5	912.6	946.0	919.3	862.4	829.0	798.9	798.9
27.5°	722.0	728.7	748.8	778.9	812.3	839.0	829.0	798.9	762.1	748.8	718.7
30°	675.2	685.3	708.7	715.3	745.4	758.8	742.1	735.4	712.0	695.3	685.3
32.5°	651.8	648.5	665.2	671.9	675.2	685.3	665.2	675.2	671.9	645.2	635.1
35°	491.4	518.1	561.6	598.4	608.4	621.8	618.4	605.0	568.3	538.2	501.4
37.5°	441.2	458.0	481.4	511.4	551.6	568.3	561.6	528.2	484.7	464.6	458.0
40°	407.8	417.8	437.9	458.0	498.1	528.2	504.8	474.7	441.2	424.5	414.5
42.5°	377.7	381.1	391.1	411.2	441.2	488.0	447.9	407.8	394.4	384.4	377.7
45°	344.3	344.3	357.7	367.7	401.1	444.6	404.5	367.7	361.0	354.3	351.0
47.5°	317.6	320.9	327.6	341.0	367.7	397.8	371.0	341.0	324.2	320.9	314.2
50°	284.1	287.5	300.8	314.2	347.6	364.4	347.6	314.2	297.5	287.5	287.5
52°	257.4	267.4	280.8	307.5	330.9	357.7	337.6	300.8	280.8	270.8	264.1
52.5°	254.0	260.7	274.1	304.2	330.9	354.3	334.3	297.5	274.1	267.4	260.7
55°	227.3	237.3	260.7	297.5	327.6	354.3	327.6	294.2	260.7	244.0	237.3
57.5°	217.3	224.0	254.0	300.8	324.2	354.3	327.6	294.2	260.7	230.6	224.0
60°	207.3	220.6	254.0	290.8	320.9	357.7	330.9	290.8	254.0	217.3	217.3
62.5°	197.2	207.3	250.7	284.1	307.5	344.3	317.6	284.1	244.0	207.3	203.9
65°	170.5	187.2	220.6	237.3	264.1	297.5	270.8	247.4	213.9	183.9	180.5
67.5°	130.4	137.1	163.8	183.9	200.6	230.6	217.3	187.2	163.8	140.4	140.4
70°	90.3	96.9	117.0	127.0	143.7	160.5	150.4	127.0	110.3	96.9	93.6
72.5°	63.5	66.9	73.5	80.2	86.9	93.6	90.3	73.5	63.5	60.2	56.8
75°	50.1	56.8	60.2	56.8	53.5	50.1	50.1	43.5	36.8	33.4	33.4
77.5°	50.1	53.5	50.1	43.5	36.8	33.4	30.1	26.7	20.1	16.7	20.1
80°	43.5	43.5	43.5	36.8	33.4	30.1	26.7	23.4	20.1	16.7	16.7
82.5°	46.8	46.8	43.5	36.8	36.8	30.1	30.1	26.7	23.4	16.7	16.7
85°	0.0	0.0	0.0	6.7	16.7	30.1	30.1	26.7	23.4	20.1	20.1
87.5°	0.0	0.0	0.0	0.0	3.3	6.7	13.4	16.7	20.1	20.1	20.1
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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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	8544.1	8544.1	8544.1	8544.1	8544.1	8544.1	8544.1	8544.1	8544.1	8544.1	8544.1
2.5°	7380.8	7507.8	7748.5	7989.2	8136.2	8310.1	8624.3	8791.4	9008.7	9115.7	9326.3
5°	5946.7	6247.6	6354.6	6628.7	6922.8	7217.0	7685.0	8199.8	8627.6	8921.8	9302.9
7.5°	4338.9	4409.1	4823.6	5007.4	5488.8	6023.6	6662.1	7310.6	7852.1	8333.5	8624.3
10°	3252.5	3509.9	3770.6	4121.6	4509.4	5060.9	5672.6	6388.0	7090.0	7571.3	7939.0
12.5°	2614.0	2817.9	3165.6	3543.3	4021.3	4385.7	5000.7	5709.4	6618.6	7090.0	7574.7
15°	1978.9	2239.6	2634.1	3025.2	3529.9	3914.4	4536.1	5428.6	6598.6	7247.1	7664.9
17.5°	1467.5	1644.6	1999.0	2436.9	2951.6	3493.2	4332.2	5398.5	6822.5	7594.7	8025.9
20°	1123.2	1183.3	1407.3	1798.4	2356.6	3065.3	4001.3	5528.9	7484.4	8440.4	8878.3
22.5°	909.2	936.0	1022.9	1293.6	1835.2	2690.9	3844.2	5619.2	8229.8	9453.3	10038.3
25°	792.2	785.5	842.4	959.4	1434.0	2339.9	3643.6	5960.1	9142.4	10643.3	11168.1
27.5°	722.0	722.0	748.8	832.3	1190.0	2112.6	3516.6	6204.1	10061.7	11689.6	11973.7
30°	685.3	691.9	768.8	795.6	989.5	1841.9	3306.0	6451.5	10940.8	12358.1	12749.2
32.5°	635.1	608.4	591.7	658.5	832.3	1597.8	3095.4	6555.1	11652.8	13177.1	13511.4
35°	488.0	474.7	494.7	544.9	715.3	1390.6	2861.4	6672.1	12471.8	14126.4	14193.3
37.5°	441.2	437.9	451.3	494.7	601.7	1210.1	2694.3	6642.0	13096.9	14912.0	14731.5
40°	407.8	407.8	417.8	454.6	538.2	1083.0	2520.4	6615.3	13701.9	15794.5	15266.3
42.5°	381.1	381.1	397.8	421.2	511.4	999.5	2390.1	6578.5	14210.0	16336.0	15580.5
45°	344.3	354.3	381.1	404.5	518.1	942.7	2293.1	6438.1	14383.8	16329.3	15430.1
47.5°	317.6	330.9	357.7	391.1	468.0	925.9	2226.3	6314.4	14323.7	15928.2	14958.8
50°	287.5	304.2	341.0	397.8	397.8	892.5	2156.1	6424.8	14280.2	15617.3	14507.5
52°	267.4	280.8	327.6	387.8	347.6	822.3	2112.6	6638.7	14457.4	15577.2	14307.0
52.5°	264.1	274.1	317.6	381.1	330.9	808.9	2082.5	6688.8	14514.2	15476.9	14444.0
55°	234.0	247.4	290.8	297.5	270.8	665.2	1985.6	6802.5	14233.4	15279.7	14313.6
57.5°	220.6	227.3	257.4	244.0	234.0	501.4	1708.1	6625.3	12642.3	13571.6	13317.5
60°	203.9	210.6	240.7	190.5	197.2	351.0	1283.6	5752.9	10151.9	11308.5	11766.5
62.5°	197.2	193.9	227.3	153.8	167.1	254.0	905.9	4676.5	7822.0	9309.5	10101.8
65°	173.8	170.5	163.8	130.4	143.7	197.2	541.5	3051.9	5512.2	7043.2	7477.7
67.5°	133.7	140.4	120.3	103.6	120.3	153.8	300.8	1367.2	2891.5	4225.2	4576.2
70°	93.6	100.3	96.9	90.3	107.0	127.0	173.8	468.0	1196.7	2219.6	2446.9
72.5°	56.8	70.2	73.5	76.9	93.6	110.3	123.7	150.4	317.6	785.5	976.1
75°	33.4	46.8	56.8	66.9	76.9	93.6	103.6	107.0	110.3	147.1	237.3
77.5°	23.4	33.4	50.1	63.5	76.9	93.6	110.3	117.0	110.3	103.6	110.3
80°	20.1	33.4	46.8	60.2	80.2	96.9	110.3	110.3	107.0	93.6	100.3
82.5°	20.1	33.4	50.1	63.5	76.9	93.6	107.0	110.3	100.3	93.6	96.9
85°	23.4	36.8	53.5	66.9	83.6	76.9	70.2	56.8	53.5	43.5	46.8
87.5°	23.4	33.4	33.4	36.8	40.1	40.1	40.1	36.8	30.1	26.7	26.7
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: P533697

CATALOG NUMBER: GALN-SA9A-827-U-SLR-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8544.1	8544.1	8544.1	8544.1	8544.1	8544.1	8544.1	8544.1	8544.1	8544.1
2.5°	9336.3	9603.7	9593.7	9600.4	9560.3	9289.5	9159.1	8828.2	8921.8	8881.7
5°	9694.0	9958.0	10185.3	10158.6	9851.1	9483.4	8938.5	8423.7	8283.3	8076.1
7.5°	9336.3	9971.4	10182.0	10151.9	9697.3	9226.0	8356.9	7842.1	7598.1	7461.0
10°	8768.0	9503.4	9764.2	9817.6	9510.1	8794.8	7995.8	7170.2	7039.8	6802.5
12.5°	8443.8	8978.6	9139.1	9282.8	9175.8	8641.0	7721.7	6929.5	6749.0	6591.9
15°	8179.7	8497.3	8564.1	8727.9	8791.4	8503.9	7865.5	7190.2	6745.7	6728.9
17.5°	8423.7	8293.4	8049.3	8099.5	8300.0	8507.3	8236.5	7705.0	7273.8	7220.3
20°	8828.2	8253.2	7701.7	7825.4	7992.5	8627.6	8798.1	8423.7	8176.4	8039.3
22.5°	9292.8	8323.4	7591.4	7651.5	7969.1	8898.4	9707.3	9500.1	9038.8	8841.6
25°	10151.9	8517.3	7678.3	7718.4	8153.0	9276.1	10529.7	10683.4	10409.3	10369.2
27.5°	10991.0	9018.7	7868.8	7778.6	8246.6	9643.8	11027.7	11853.4	11372.0	11278.4
30°	11418.8	9426.5	8153.0	7999.2	8634.3	9867.8	11328.6	12615.5	12194.3	12150.9
32.5°	12074.0	9797.6	8373.6	8176.4	8851.6	10145.2	11890.1	13447.9	13040.1	12822.8
35°	12348.1	10202.1	8858.3	8627.6	9473.3	10533.0	12177.6	14190.0	14062.9	13852.3
37.5°	12876.3	10636.6	9429.9	9416.5	10225.5	11037.7	12695.8	15199.5	15176.1	14811.7
40°	12919.7	11111.3	10332.4	10753.6	11388.7	11916.9	13150.4	15480.3	15861.3	15614.0
42.5°	12986.6	11943.6	11893.5	12241.1	12786.0	12672.4	13167.1	15547.1	16128.8	15981.7
45°	13016.7	12776.0	13481.3	14123.1	14350.4	13661.8	13010.0	15420.1	16269.1	15901.4
47.5°	12776.0	13491.3	14764.9	16005.1	16071.9	14270.2	12943.1	15289.7	16352.7	16108.7
50°	12809.4	13939.3	15874.7	16984.5	16740.5	14808.4	12839.5	15209.5	16309.3	16145.5
52°	12729.2	13949.3	16031.8	16964.4	16794.0	14510.9	12662.3	14902.0	16269.1	16386.1
52.5°	12819.4	13889.1	15868.0	16977.8	16757.2	14657.9	12638.9	15072.4	16292.5	16055.2
55°	12508.6	13173.8	14908.6	15380.0	15346.5	13304.1	11920.2	14507.5	15680.8	15684.2
57.5°	11305.2	11418.8	11692.9	11682.9	11529.1	10459.5	10195.4	13340.9	13979.4	13631.7
60°	9961.4	8360.2	7621.5	7320.6	7150.1	6976.3	9018.7	12204.4	12264.5	12117.5
62.5°	8607.6	5796.3	4813.6	4730.0	4770.1	5405.2	8717.9	11753.1	11392.1	11074.5
65°	6946.2	4225.2	3496.5	3386.2	3777.3	4462.6	7056.5	9012.0	8457.1	8193.1
67.5°	4362.3	3082.0	2363.3	2156.1	2627.4	3072.0	4636.4	5662.6	5040.9	4676.5
70°	2587.3	1721.5	1069.7	959.4	1079.7	1637.9	2597.3	2824.6	2336.6	2149.4
72.5°	1019.5	631.8	297.5	254.0	264.1	575.0	956.0	932.6	705.3	628.4
75°	274.1	190.5	103.6	83.6	70.2	107.0	153.8	100.3	36.8	46.8
77.5°	127.0	113.7	90.3	70.2	53.5	40.1	20.1	6.7	6.7	3.3
80°	110.3	96.9	83.6	70.2	53.5	33.4	16.7	3.3	3.3	3.3
82.5°	103.6	90.3	76.9	63.5	50.1	33.4	16.7	3.3	0.0	0.0
85°	43.5	56.8	63.5	60.2	53.5	33.4	16.7	3.3	0.0	0.0
87.5°	23.4	20.1	16.7	13.4	10.0	6.7	6.7	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

(END OF REPORT)