

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: P456843

Luminaire Tested: **GALN-SA8A-827-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456843
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-SA8A-827-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 615mA 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: 19495 lumens
Efficiency: N/A
Efficacy: 79.9 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

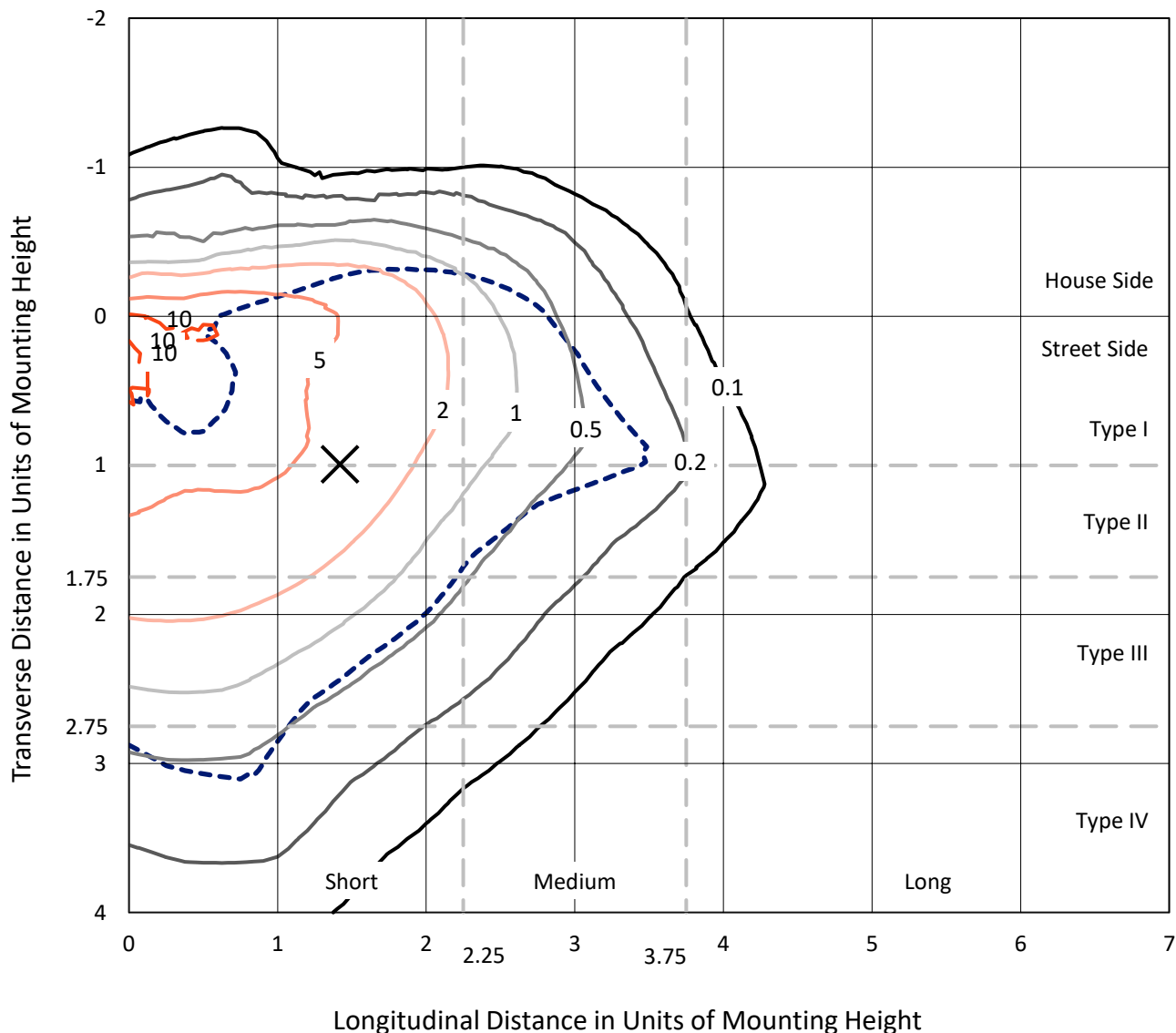
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

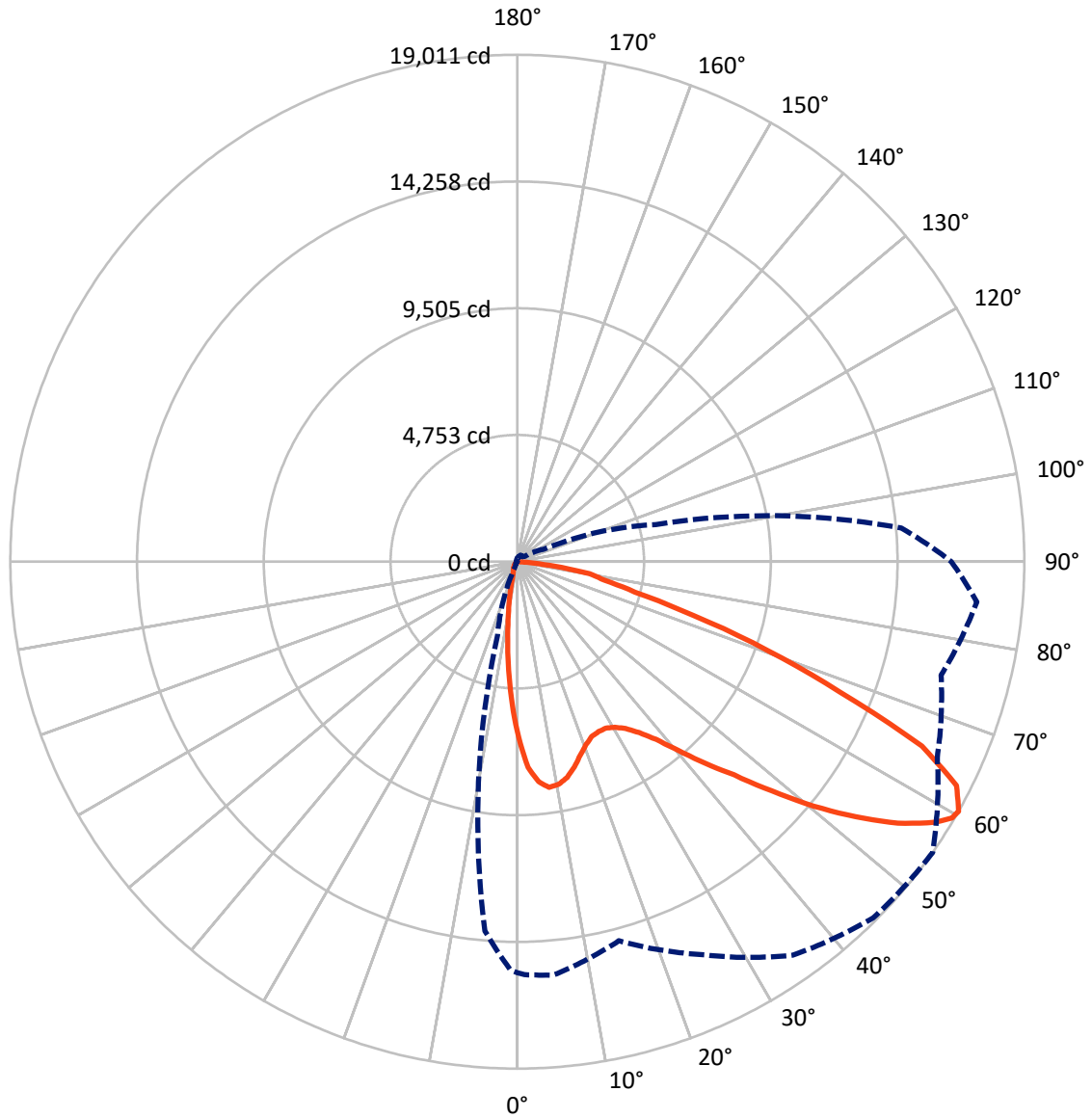
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 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
House Side	Lumens	2893.2	0.0	2893.2
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	16601.8	0.0	16601.8
	% Fixture	85.2	0.0	85.2
Total	Lumens	19495.0	0.0	19495.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	488.8	2.5
10°-20°	962.6	4.9
20°-30°	1424.8	7.3
30°-40°	2123.8	10.9
40°-50°	3110.3	16.0
50°-60°	4490.3	23.0
60°-70°	4723.6	24.2
70°-80°	1943.1	10.0
80°-90°	227.6	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°	19495.0	100.0
0°-180°	19495.0	100.0

Coefficient of Utilization



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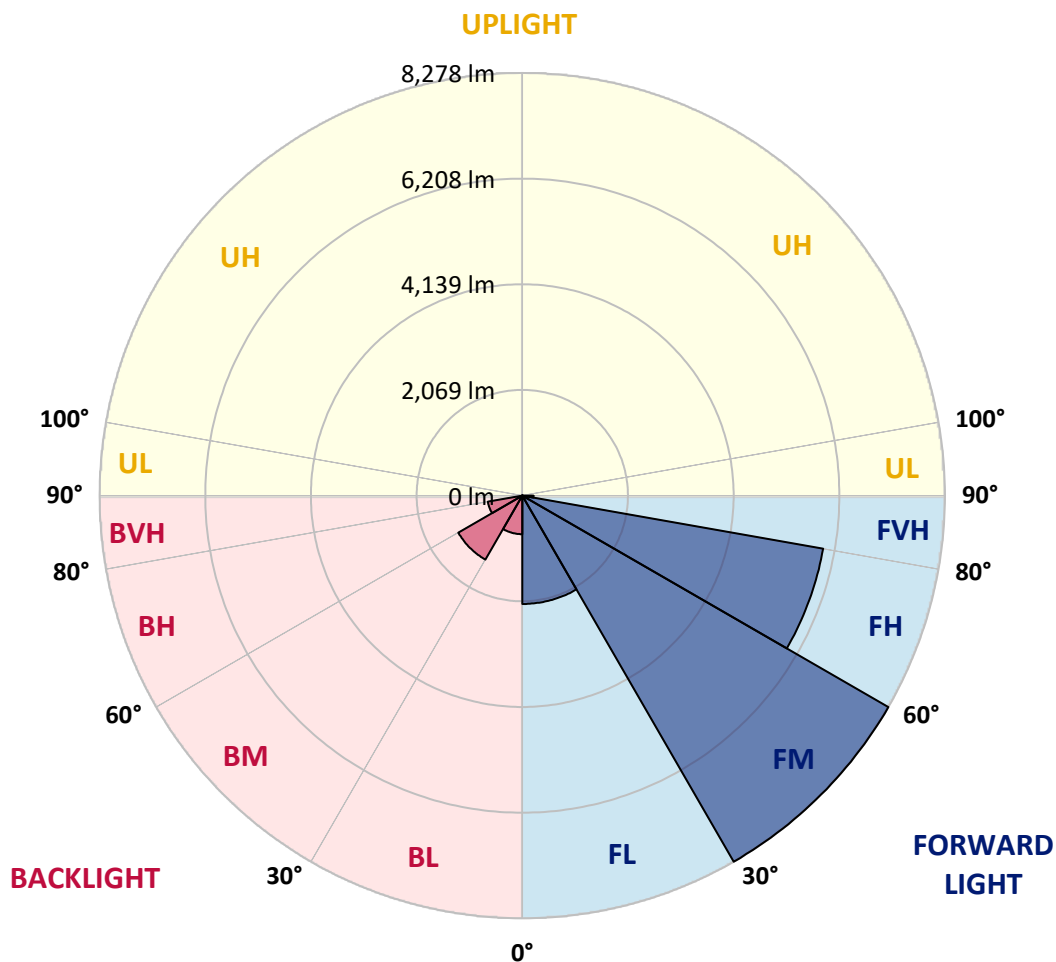
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2121.3	10.9			
FM	(30°-60°)	8277.6	42.5			
FH	(60°-80°)	5981.9	30.7			G3/7500
FVH	(80°-90°)	220.9	1.1			G2/225
BL	(0°-30°)	754.9	3.9	B2/1000		
BM	(30°-60°)	1446.9	7.4	B2/2500		
BH	(60°-80°)	684.8	3.5	B2/1000		G2/1000
BVH	(80°-90°)	6.7	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





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6601.0	6601.0	6601.0	6601.0	6601.0	6601.0	6601.0	6601.0	6601.0	6601.0	6601.0
2.5°	7211.7	7199.7	7306.2	7480.3	7655.8	7747.4	7729.4	7721.9	7576.3	7469.8	7246.2
5°	7196.7	7258.2	7448.8	7919.9	8277.1	8449.6	8500.7	8286.1	8002.5	7591.3	7084.1
7.5°	6766.0	6842.5	7153.2	7889.9	8524.7	8899.8	8886.3	8542.7	7957.5	7321.2	6598.0
10°	6231.8	6321.8	6686.5	7580.8	8404.6	8899.8	8926.8	8491.7	7763.9	6947.6	6186.8
12.5°	5855.2	5961.7	6365.4	7292.7	8095.5	8583.2	8614.7	8299.6	7618.3	6803.5	5963.2
15°	5727.6	5828.2	6237.8	7147.2	7766.9	8029.5	8022.0	7989.0	7561.3	6838.0	5975.2
17.5°	5946.7	6029.2	6491.4	7213.2	7459.3	7432.3	7471.3	7630.3	7573.3	7127.6	6353.4
20°	6512.4	6596.5	7093.1	7415.8	7223.7	7052.6	7070.6	7336.2	7684.4	7672.4	6944.6
22.5°	7291.2	7433.8	7883.9	7808.9	7192.2	6817.0	6779.5	7124.6	7873.4	8299.6	7742.9
25°	8277.1	8421.1	8772.3	8436.1	7346.7	6761.5	6727.0	7060.1	8103.0	8911.8	8641.7
27.5°	9105.4	9214.9	9564.6	9046.9	7574.8	6785.5	6728.5	7069.1	8289.1	9432.5	9399.5
30°	9768.6	9849.7	10055.2	9332.0	7771.4	6890.6	6824.5	7201.2	8371.6	9686.1	10013.2
32.5°	10302.8	10439.4	10503.9	9636.6	8053.5	7088.6	6976.1	7454.8	8572.7	9999.7	10657.0
35°	10913.6	11071.1	10988.6	9927.7	8425.6	7397.7	7259.7	7865.9	8877.3	10289.3	11404.2
37.5°	11687.8	11869.4	11546.8	10233.8	8818.8	7862.9	7798.4	8443.6	9339.5	10703.5	12205.5
40°	12489.1	12594.2	12088.5	10605.9	9302.0	8539.7	8601.2	9302.0	9944.2	11200.2	13057.9
42.5°	13114.9	13213.9	12645.2	10918.1	9795.6	9342.5	9599.1	10337.3	10637.5	11708.9	13694.1
45°	13593.6	13677.6	13030.8	11258.7	10461.9	10505.4	10990.1	11404.2	11332.2	12019.5	14184.8
47.5°	13965.7	14037.7	13328.0	11624.8	11459.8	11927.9	12669.2	12844.8	12052.5	12355.6	14628.9
50°	14118.7	14139.8	13421.0	12091.5	12592.7	13740.6	14513.4	14406.9	12877.8	12729.2	15101.6
52.5°	14318.3	14313.8	13686.6	12535.7	13658.1	15361.2	16132.5	15890.9	13811.1	13288.9	15632.8
55°	14842.0	14848.0	14255.3	13165.9	14565.9	16669.7	17495.0	17319.4	14795.5	14234.3	16252.5
57.5°	15478.3	15500.8	15064.1	13902.7	15433.2	17618.0	18512.4	18444.9	16126.5	15286.2	16837.8
59°	15560.8	15605.8	15446.7	14421.9	15947.9	17909.2	18860.5	18926.5	16839.3	15979.4	17154.4
60°	15410.7	15485.8	15557.8	14716.0	16249.5	18014.2	18881.5	19010.6	17375.0	16450.6	17298.4
62.5°	14756.5	14875.0	15236.7	15620.8	16626.2	17687.1	18210.8	18480.9	18038.2	17688.6	17311.9
65°	13899.7	13961.2	14483.4	15781.4	15895.4	16159.5	16321.6	16668.2	17241.4	18165.8	16692.2
67.5°	12495.1	12676.7	13315.9	14849.5	13739.1	13427.0	13386.5	13041.3	14529.9	17028.3	15164.6
70°	10322.3	10403.4	11191.2	12174.0	10368.9	9888.7	10080.7	9951.7	11263.2	14658.9	12205.5
72.5°	7805.9	7989.0	8758.8	9704.1	7055.6	6432.9	6962.6	6914.6	8460.1	11780.9	8385.1
75°	5553.6	5672.1	6653.5	7594.3	4941.3	4186.6	4377.1	4555.7	5906.2	9302.0	4954.8
77.5°	3815.9	3918.0	4654.7	5022.4	3604.3	3452.8	3158.7	3331.2	3869.9	5519.1	2696.5
80°	2301.9	2297.4	2782.0	2872.1	2510.4	2915.6	2445.9	2746.0	2339.4	2361.9	1044.4
82.5°	1494.6	1479.5	1701.6	1854.7	1397.0	1469.0	985.9	1421.0	1524.6	658.7	330.1
85°	669.2	697.8	817.8	1078.9	612.2	325.6	201.1	436.7	649.7	331.6	0.0
87.5°	69.0	54.0	144.1	262.6	84.0	9.0	30.0	15.0	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°	6601.0	6601.0	6601.0	6601.0	6601.0	6601.0	6601.0	6601.0	6601.0	6601.0	6601.0
2.5°	7142.7	7055.6	6796.0	6552.9	6344.4	6089.3	5924.2	5664.6	5507.0	5459.0	5466.5
5°	6856.0	6605.5	6111.8	5717.1	5277.5	5026.9	4645.7	4279.6	4081.5	4008.0	3975.0
7.5°	6255.8	5987.2	5391.5	4771.8	4300.6	3860.9	3577.3	3254.7	3034.1	2852.6	2821.0
10°	5810.2	5457.5	4719.3	4053.0	3680.9	3350.7	3067.1	2744.5	2484.9	2277.8	2220.8
12.5°	5543.1	5148.4	4324.6	3766.4	3413.8	3074.6	2705.5	2331.9	2066.3	1842.7	1739.1
15°	5495.0	5037.4	4213.6	3560.8	3125.7	2716.0	2225.3	1821.7	1548.6	1337.0	1272.5
17.5°	5784.6	5236.9	4197.1	3346.2	2749.0	2168.3	1658.1	1323.5	1015.9	897.3	850.8
20°	6300.8	5589.6	4195.6	3097.2	2361.9	1670.1	1164.4	862.8	738.3	681.3	654.2
22.5°	7004.6	6069.8	4275.1	2882.6	1959.7	1232.0	831.3	687.3	615.2	568.7	558.2
25°	7864.4	6781.0	4470.2	2737.0	1652.1	966.4	685.8	588.2	528.2	507.2	498.2
27.5°	8628.2	7462.3	4684.7	2587.0	1431.5	855.3	636.2	538.7	490.7	474.2	460.7
30°	9287.0	8080.5	4788.3	2388.9	1254.5	783.3	645.2	576.2	513.2	463.7	441.2
32.5°	9836.2	8554.7	4855.8	2208.8	1104.4	640.7	510.2	445.7	417.2	399.1	384.1
35°	10523.4	9067.9	4815.3	2106.8	1027.9	583.7	465.2	384.1	336.1	300.1	285.1
37.5°	11243.7	9581.1	4744.8	2022.8	993.4	541.7	442.7	364.6	312.1	274.6	255.1
40°	11989.5	10056.7	4662.2	1944.7	961.9	514.7	429.2	348.1	295.6	255.1	234.1
42.5°	12672.2	10520.4	4629.2	1893.7	910.8	519.2	418.7	340.6	279.1	237.1	219.1
45°	13224.4	10960.1	4674.2	1866.7	855.3	511.7	421.7	331.6	265.6	225.1	207.1
47.5°	13814.1	11581.3	4819.8	1839.7	801.3	475.7	444.2	330.1	259.6	217.6	198.1
50°	14499.9	12376.6	5152.9	1773.7	735.3	436.7	472.7	328.6	252.1	208.6	189.1
52.5°	15413.7	13279.9	5496.5	1658.1	639.2	399.1	451.7	324.1	237.1	198.1	178.6
55°	16234.5	14231.3	5787.7	1521.6	517.7	345.1	406.7	304.6	211.6	180.1	162.1
57.5°	16573.7	14768.5	5778.6	1332.5	414.2	303.1	334.6	279.1	184.6	159.1	144.1
59°	16449.1	14701.0	5585.1	1192.9	378.1	280.6	277.6	276.1	172.6	144.1	132.0
60°	16273.5	14454.9	5376.5	1123.9	355.6	265.6	255.1	273.1	162.1	135.1	123.0
62.5°	15601.3	13434.5	4684.7	1006.9	325.6	225.1	204.1	231.1	144.1	117.0	106.5
65°	14627.4	11866.4	3966.0	973.9	316.6	186.1	169.6	165.1	123.0	99.0	90.0
67.5°	12727.7	10041.7	3212.7	951.4	319.6	156.1	148.6	124.5	102.0	82.5	76.5
70°	10190.3	7829.9	2630.5	925.8	322.6	127.5	124.5	99.0	82.5	69.0	63.0
72.5°	6191.3	4641.2	2070.8	804.3	313.6	102.0	111.0	75.0	60.0	49.5	46.5
75°	3827.9	3176.7	1284.5	625.7	207.1	75.0	78.0	46.5	40.5	31.5	31.5
77.5°	2217.8	2006.2	459.2	225.1	91.5	45.0	34.5	24.0	22.5	13.5	13.5
80°	919.8	736.8	159.1	76.5	49.5	21.0	7.5	1.5	0.0	0.0	0.0
82.5°	268.6	238.6	43.5	34.5	15.0	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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	6601.0	6601.0	6601.0	6601.0	6601.0	6601.0	6601.0	6601.0	6601.0	6601.0	6601.0
2.5°	5339.0	5289.5	5267.0	5343.5	5273.0	5363.0	5294.0	5324.0	5412.5	5451.5	5552.1
5°	3996.0	3945.0	3921.0	4036.5	4030.5	4087.5	4081.5	4134.0	4179.1	4078.5	4182.1
7.5°	2783.5	2749.0	2806.0	2896.1	2992.1	2960.6	2960.6	2890.1	2914.1	2899.1	2894.6
10°	2117.3	1998.7	1968.7	1965.7	2001.7	2009.2	1968.7	1871.2	1907.2	1917.7	1980.7
12.5°	1665.6	1574.1	1434.5	1371.5	1355.0	1368.5	1235.0	1149.4	1189.9	1165.9	1227.5
15°	1194.4	1119.4	1036.9	966.4	946.9	919.8	774.3	672.2	660.2	664.7	675.3
17.5°	852.3	801.3	801.3	726.3	685.8	604.7	531.2	486.2	481.7	486.2	493.7
20°	628.7	601.7	598.7	579.2	534.2	480.2	429.2	420.2	417.2	424.7	427.7
22.5°	541.7	513.2	489.2	487.7	445.7	400.6	376.6	364.6	366.1	369.1	376.6
25°	484.7	454.7	429.2	414.2	384.1	352.6	330.1	324.1	324.1	328.6	330.1
27.5°	444.2	406.7	384.1	363.1	336.1	309.1	289.6	285.1	282.1	285.1	292.6
30°	415.7	378.1	349.6	318.1	297.1	271.6	255.1	249.1	247.6	249.1	255.1
32.5°	355.6	333.1	310.6	282.1	256.6	240.1	222.1	211.6	211.6	214.6	220.6
35°	268.6	256.6	255.1	247.6	226.6	208.6	187.6	177.1	177.1	183.1	186.1
37.5°	237.1	214.6	211.6	208.6	199.6	175.6	156.1	147.1	145.6	150.1	156.1
40°	216.1	190.6	177.1	174.1	175.6	148.6	127.5	118.5	118.5	120.0	126.0
42.5°	199.6	169.6	145.6	142.6	148.6	124.5	103.5	94.5	94.5	94.5	102.0
45°	186.1	151.6	123.0	108.0	117.0	102.0	84.0	75.0	72.0	75.0	78.0
47.5°	177.1	138.1	108.0	87.0	87.0	81.0	67.5	57.0	54.0	55.5	60.0
50°	169.6	126.0	91.5	70.5	63.0	64.5	51.0	43.5	40.5	40.5	45.0
52.5°	157.6	114.0	79.5	60.0	48.0	43.5	37.5	31.5	30.0	31.5	34.5
55°	142.6	103.5	69.0	49.5	37.5	30.0	27.0	22.5	21.0	22.5	27.0
57.5°	126.0	87.0	55.5	39.0	25.5	19.5	18.0	15.0	12.0	13.5	16.5
59°	115.5	78.0	48.0	31.5	19.5	13.5	13.5	10.5	7.5	9.0	13.5
60°	111.0	72.0	40.5	27.0	16.5	10.5	10.5	7.5	4.5	6.0	10.5
62.5°	94.5	60.0	31.5	16.5	7.5	1.5	4.5	1.5	0.0	1.5	4.5
65°	79.5	48.0	21.0	7.5	0.0	0.0	0.0	0.0	0.0	0.0	1.5
67.5°	66.0	36.0	10.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	52.5	24.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	36.0	13.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	22.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	9.0	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: P456843

CATALOG NUMBER: GALN-SA8A-827-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6601.0	6601.0	6601.0	6601.0	6601.0	6601.0	6601.0	6601.0	6601.0	6601.0
2.5°	5558.1	5772.6	5904.7	6153.8	6408.9	6605.5	6851.5	7072.1	7163.7	7211.7
5°	4287.1	4585.7	4839.3	5218.9	5571.6	6000.7	6435.9	6949.1	7145.7	7196.7
7.5°	3008.6	3313.2	3578.8	4018.5	4521.2	5095.9	5747.1	6398.4	6685.0	6766.0
10°	2172.8	2498.4	2822.5	3262.2	3731.9	4354.6	5032.9	5838.7	6168.8	6231.8
12.5°	1371.5	1721.1	2247.8	2791.0	3287.7	3788.9	4498.7	5375.0	5739.6	5855.2
15°	795.3	1056.4	1454.0	2162.3	2794.0	3457.3	4231.6	5200.9	5609.1	5727.6
17.5°	532.7	622.7	895.8	1437.5	2271.8	3151.2	4164.0	5343.5	5795.2	5946.7
20°	448.7	489.2	585.2	876.3	1749.7	2878.1	4182.1	5730.6	6323.3	6512.4
22.5°	394.6	432.2	493.7	630.2	1221.5	2538.9	4267.6	6284.3	7049.6	7291.2
25°	348.1	385.6	439.7	522.2	820.8	2147.3	4455.2	7094.6	8011.5	8277.1
27.5°	309.1	343.6	390.1	460.7	631.7	1710.6	4621.7	7883.9	8889.3	9105.4
30°	273.1	301.6	346.6	400.6	525.2	1319.0	4705.7	8574.2	9528.5	9768.6
32.5°	237.1	264.1	307.6	351.1	432.2	1005.4	4647.2	9081.4	10149.8	10302.8
35°	202.6	231.1	267.1	307.6	373.6	811.8	4354.6	9651.6	10793.5	10913.6
37.5°	174.1	198.1	235.6	267.1	337.6	649.7	4000.5	10164.8	11515.3	11687.8
40°	147.1	171.1	208.6	237.1	310.6	511.7	3680.9	10735.0	12276.1	12489.1
42.5°	120.0	148.6	181.6	228.1	267.1	390.1	3293.7	11197.2	12847.8	13114.9
45°	96.0	127.5	163.6	226.6	232.6	297.1	2920.1	11557.3	13353.5	13593.6
47.5°	76.5	108.0	157.6	211.6	190.6	235.6	2707.0	11933.9	13773.6	13965.7
50°	61.5	90.0	165.1	186.1	159.1	199.6	2701.0	12354.1	13991.2	14118.7
52.5°	49.5	73.5	139.6	142.6	135.1	175.6	2863.1	12826.8	14213.3	14318.3
55°	42.0	61.5	91.5	105.0	121.5	159.1	2984.6	13554.5	14743.0	14842.0
57.5°	33.0	52.5	70.5	84.0	108.0	145.6	3001.1	14115.7	15413.7	15478.3
59°	28.5	45.0	63.0	75.0	99.0	136.6	2933.6	14150.3	15457.2	15560.8
60°	24.0	40.5	55.5	70.5	91.5	129.0	2860.1	13899.7	15295.2	15410.7
62.5°	18.0	31.5	40.5	57.0	75.0	111.0	2511.9	13024.8	14675.5	14756.5
65°	12.0	22.5	30.0	42.0	58.5	96.0	2046.8	11890.4	13718.1	13899.7
67.5°	7.5	16.5	24.0	31.5	48.0	81.0	1458.5	10196.3	12378.1	12495.1
70°	4.5	10.5	18.0	25.5	37.5	64.5	865.8	8059.5	10298.3	10322.3
72.5°	3.0	7.5	12.0	18.0	30.0	58.5	420.2	5253.5	7519.3	7805.9
75°	1.5	4.5	7.5	13.5	24.0	48.0	201.1	3509.8	5471.0	5553.6
77.5°	0.0	1.5	4.5	9.0	18.0	37.5	117.0	2304.9	3730.4	3815.9
80°	0.0	0.0	3.0	7.5	13.5	24.0	70.5	1359.5	2259.8	2301.9
82.5°	0.0	0.0	1.5	6.0	9.0	18.0	36.0	597.2	1479.5	1494.6
85°	0.0	0.0	1.5	6.0	7.5	12.0	13.5	81.0	657.2	669.2
87.5°	0.0	0.0	1.5	7.5	7.5	7.5	7.5	4.5	55.5	69.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)