

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: P454987

Luminaire Tested: **GALN-SA6A-827-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454987
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-SA6A-827-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 14316 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

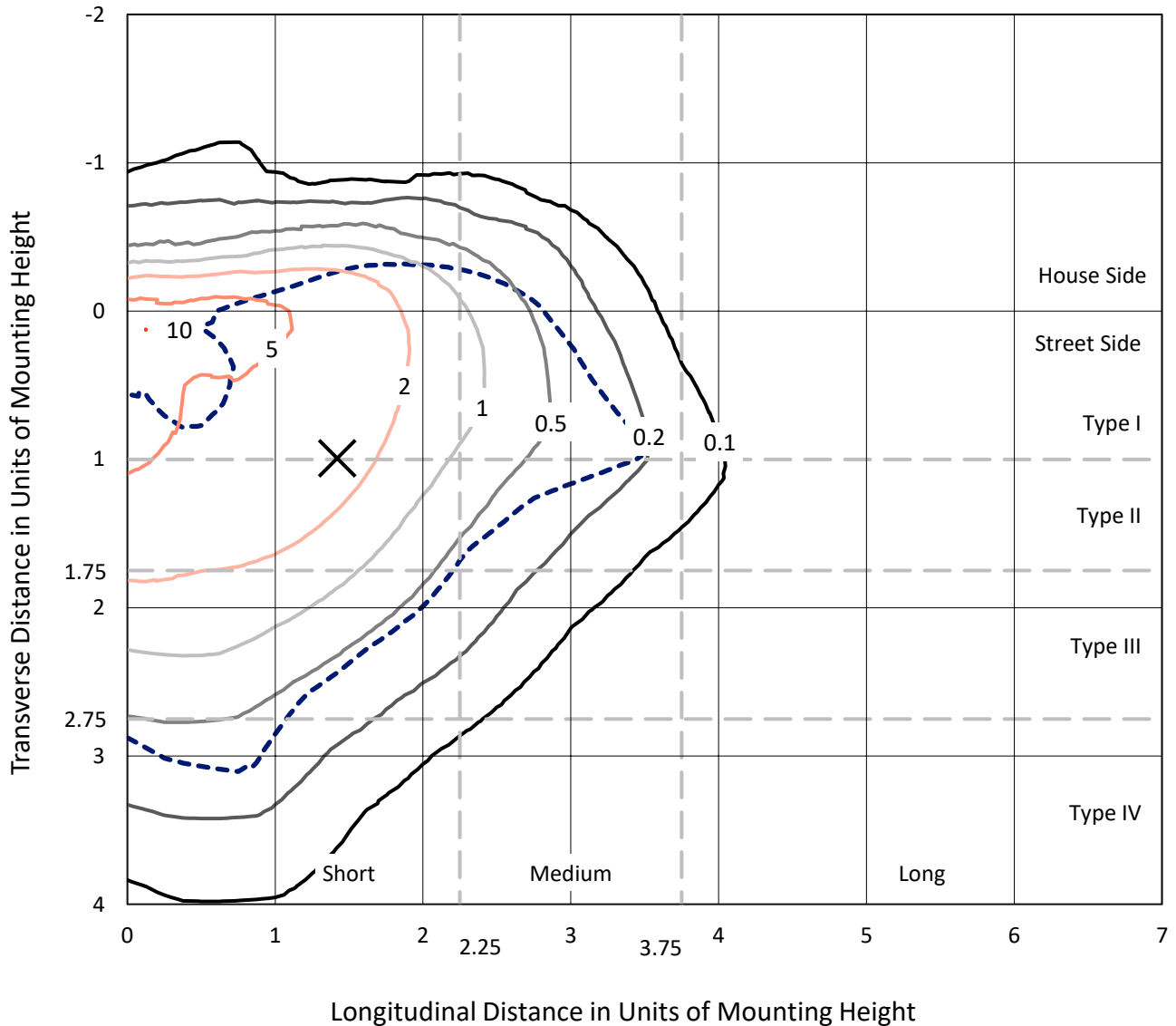
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

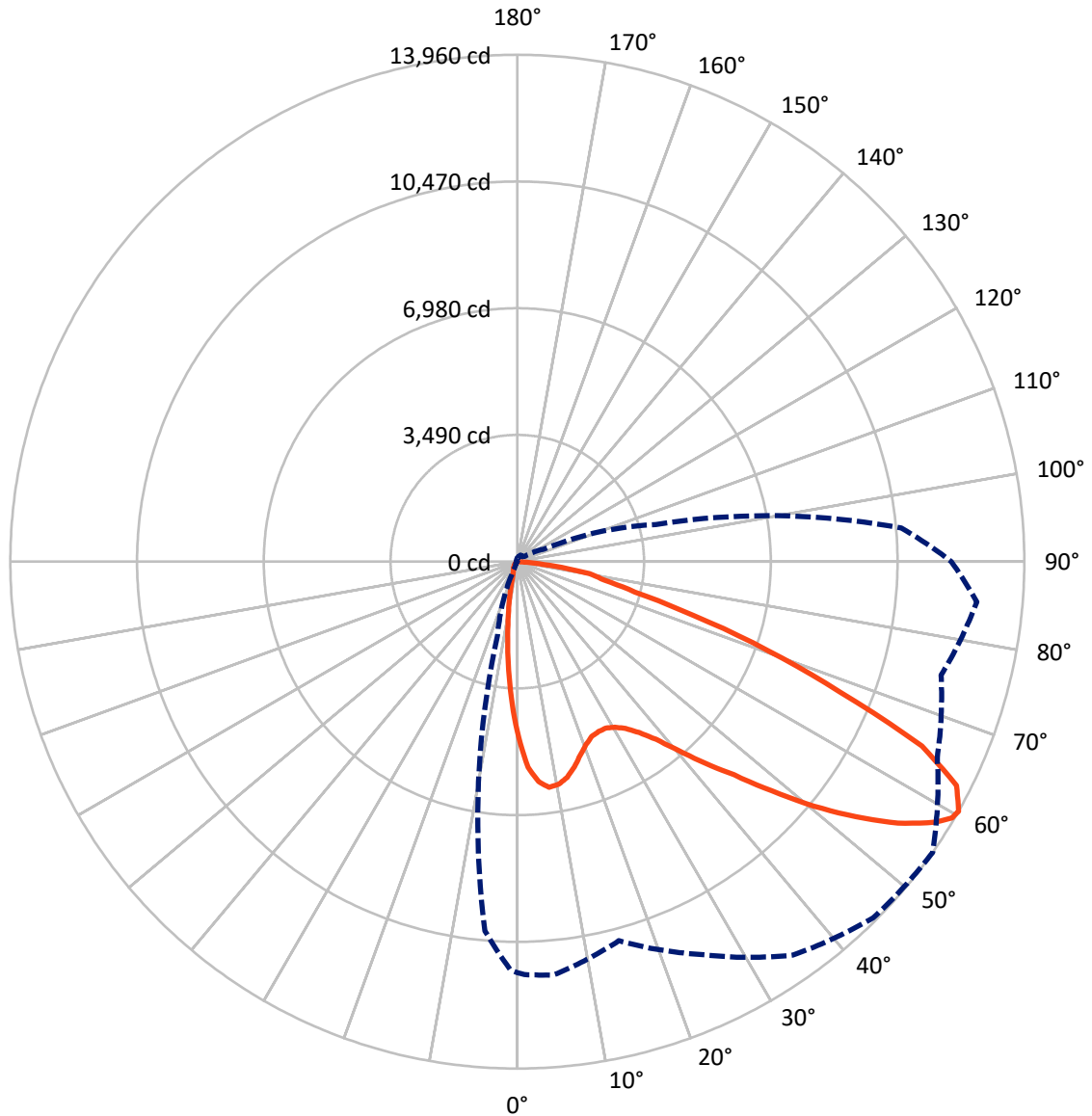
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 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	2124.6	0.0	2124.6
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	12191.4	0.0	12191.4
	% Fixture	85.2	0.0	85.2
Total	Lumens	14316.0	0.0	14316.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.0	2.5
10°-20°	706.9	4.9
20°-30°	1046.3	7.3
30°-40°	1559.6	10.9
40°-50°	2284.0	16.0
50°-60°	3297.4	23.0
60°-70°	3468.8	24.2
70°-80°	1426.9	10.0
80°-90°	167.1	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°	14316.0	100.0
0°-180°	14316.0	100.0

Coefficient of Utilization



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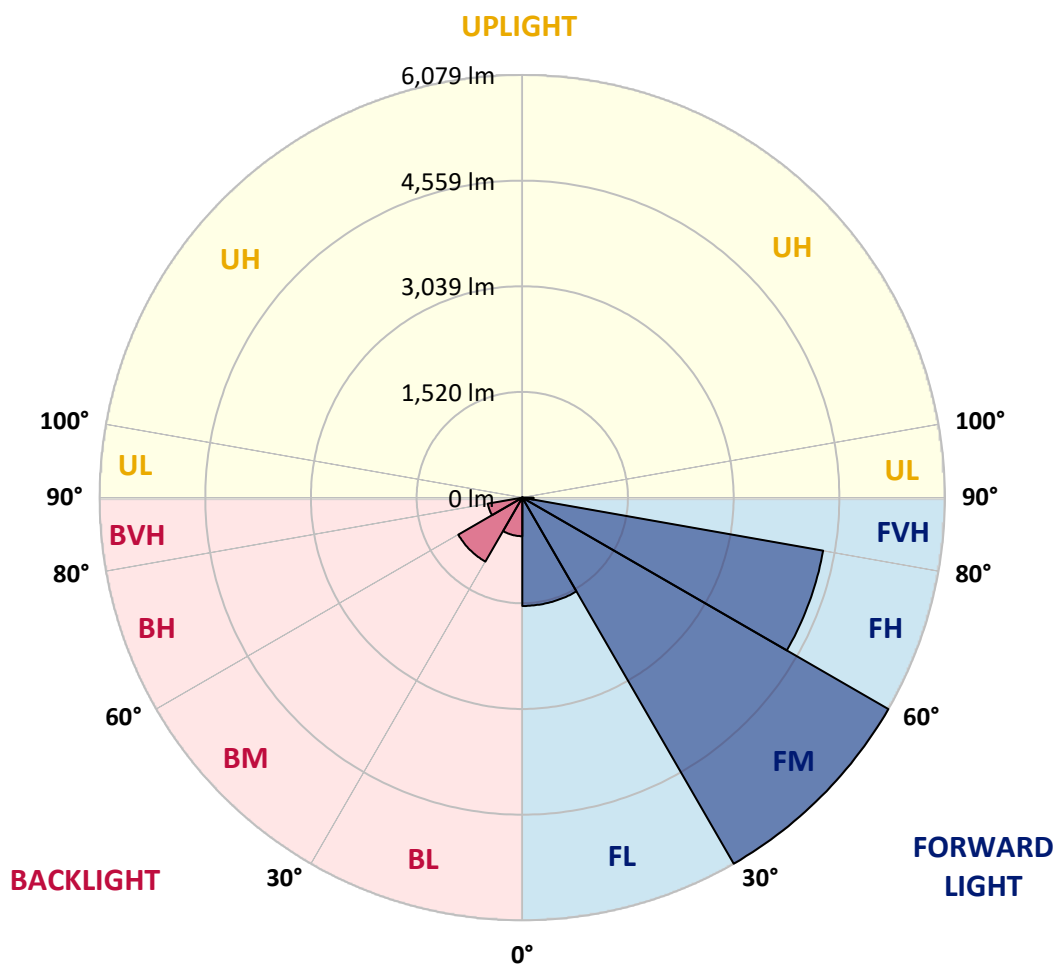
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1557.8	10.9			
FM	(30°-60°)	6078.6	42.5			
FH	(60°-80°)	4392.8	30.7			G2/5000
FVH	(80°-90°)	162.2	1.1			G2/225
BL	(0°-30°)	554.3	3.9	B2/1000		
BM	(30°-60°)	1062.5	7.4	B2/2500		
BH	(60°-80°)	502.9	3.5	B2/1000		G2/1000
BVH	(80°-90°)	4.9	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4847.4	4847.4	4847.4	4847.4	4847.4	4847.4	4847.4	4847.4	4847.4	4847.4	4847.4
2.5°	5295.8	5287.0	5365.3	5493.1	5622.0	5689.2	5676.0	5670.5	5563.6	5485.4	5321.2
5°	5284.8	5330.0	5469.9	5815.9	6078.2	6204.9	6242.4	6084.8	5876.6	5574.6	5202.2
7.5°	4968.6	5024.8	5252.9	5793.9	6260.0	6535.5	6525.6	6273.2	5843.5	5376.3	4845.2
10°	4576.3	4642.4	4910.2	5566.9	6171.9	6535.5	6555.3	6235.8	5701.3	5101.9	4543.2
12.5°	4299.7	4377.9	4674.4	5355.3	5944.9	6303.0	6326.1	6094.7	5594.5	4996.1	4379.0
15°	4206.0	4279.9	4580.7	5248.5	5703.6	5896.4	5890.9	5866.6	5552.6	5021.5	4387.9
17.5°	4366.9	4427.5	4766.9	5296.9	5477.7	5457.8	5486.5	5603.3	5561.4	5234.1	4665.5
20°	4782.3	4844.1	5208.8	5445.7	5304.7	5179.0	5192.3	5387.3	5642.9	5634.1	5099.7
22.5°	5354.2	5458.9	5789.5	5734.4	5281.5	5006.0	4978.5	5231.9	5781.8	6094.7	5685.9
25°	6078.2	6184.0	6441.8	6195.0	5395.0	4965.3	4939.9	5184.5	5950.4	6544.3	6346.0
27.5°	6686.5	6766.9	7023.7	6643.5	5562.5	4982.9	4941.0	5191.2	6087.0	6926.7	6902.4
30°	7173.5	7233.0	7384.0	6852.9	5706.9	5060.0	5011.5	5288.1	6147.6	7112.9	7353.1
32.5°	7565.8	7666.1	7713.5	7076.5	5914.0	5205.5	5122.8	5474.4	6295.3	7343.2	7825.9
35°	8014.3	8130.0	8069.4	7290.3	6187.3	5432.5	5331.1	5776.3	6519.0	7555.9	8374.6
37.5°	8582.9	8716.2	8479.3	7515.1	6476.0	5774.1	5726.7	6200.5	6858.4	7860.0	8963.0
40°	9171.3	9248.4	8877.1	7788.4	6830.8	6271.0	6316.2	6830.8	7302.4	8224.8	9588.9
42.5°	9630.8	9703.5	9285.9	8017.6	7193.4	6860.6	7049.0	7591.1	7811.5	8598.3	10056.1
45°	9982.3	10044.0	9569.1	8267.7	7682.6	7714.6	8070.5	8374.6	8321.7	8826.4	10416.5
47.5°	10255.6	10308.5	9787.3	8536.6	8415.4	8759.2	9303.5	9432.5	8850.6	9073.2	10742.6
50°	10368.0	10383.4	9855.6	8879.3	9247.3	10090.3	10657.8	10579.6	9456.7	9347.6	11089.8
52.5°	10514.5	10511.2	10050.6	9205.5	10029.7	11280.4	11846.8	11669.4	10142.1	9758.6	11479.8
55°	10899.1	10903.5	10468.3	9668.3	10696.4	12241.3	12847.3	12718.4	10865.0	10452.8	11934.9
57.5°	11366.3	11382.9	11062.2	10209.3	11333.3	12937.7	13594.4	13544.8	11842.4	11225.3	12364.7
59°	11426.9	11460.0	11343.2	10590.6	11711.2	13151.4	13850.1	13898.6	12365.8	11734.4	12597.2
60°	11316.7	11371.8	11424.7	10806.6	11932.7	13228.6	13865.5	13960.3	12759.2	12080.4	12703.0
62.5°	10836.3	10923.4	11188.9	11471.0	12209.3	12988.4	13372.9	13571.3	13246.2	12989.5	12712.9
65°	10207.1	10252.3	10635.8	11588.9	11672.7	11866.6	11985.6	12240.2	12661.1	13339.9	12257.8
67.5°	9175.7	9309.0	9778.5	10904.6	10089.2	9860.0	9830.3	9576.8	10669.9	12504.6	11136.0
70°	7580.1	7639.6	8218.1	8939.9	7614.3	7261.7	7402.7	7308.0	8271.0	10764.7	8963.0
72.5°	5732.2	5866.6	6431.9	7126.1	5181.2	4723.9	5112.9	5077.7	6212.6	8651.2	6157.5
75°	4078.2	4165.3	4885.9	5576.8	3628.6	3074.4	3214.3	3345.4	4337.2	6830.8	3638.5
77.5°	2802.2	2877.1	3418.2	3688.1	2646.8	2535.5	2319.5	2446.3	2841.9	4052.9	1980.2
80°	1690.3	1687.0	2043.0	2109.1	1843.5	2141.0	1796.1	2016.5	1717.9	1734.4	766.9
82.5°	1097.5	1086.5	1249.6	1362.0	1025.9	1078.8	724.0	1043.5	1119.6	483.7	242.4
85°	491.5	512.4	600.5	792.3	449.6	239.1	147.7	320.7	477.1	243.5	0.0
87.5°	50.7	39.7	105.8	192.8	61.7	6.6	22.0	11.0	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°	4847.4	4847.4	4847.4	4847.4	4847.4	4847.4	4847.4	4847.4	4847.4	4847.4	4847.4
2.5°	5245.2	5181.2	4990.6	4812.1	4658.9	4471.6	4350.4	4159.8	4044.1	4008.8	4014.3
5°	5034.7	4850.7	4488.1	4198.3	3875.5	3691.4	3411.6	3142.7	2997.2	2943.2	2919.0
7.5°	4593.9	4396.7	3959.2	3504.1	3158.1	2835.2	2627.0	2390.1	2228.1	2094.8	2071.6
10°	4266.6	4007.7	3465.5	2976.3	2703.0	2460.6	2252.3	2015.4	1824.8	1672.7	1630.8
12.5°	4070.5	3780.7	3175.7	2765.8	2506.9	2257.8	1986.8	1712.4	1517.3	1353.2	1277.1
15°	4035.2	3699.2	3094.2	2614.9	2295.3	1994.5	1634.2	1337.7	1137.2	981.8	934.4
17.5°	4247.9	3845.7	3082.1	2457.3	2018.7	1592.3	1217.6	971.9	746.0	658.9	624.8
20°	4627.0	4104.7	3081.0	2274.4	1734.4	1226.4	855.1	633.6	542.1	500.3	480.4
22.5°	5143.8	4457.3	3139.4	2116.8	1439.1	904.7	610.5	504.7	451.8	417.6	409.9
25°	5775.2	4979.6	3282.6	2009.9	1213.2	709.6	503.6	432.0	387.9	372.4	365.8
27.5°	6336.1	5479.9	3440.2	1899.7	1051.2	628.1	467.2	395.6	360.3	348.2	338.3
30°	6819.8	5933.9	3516.2	1754.3	921.2	575.2	473.8	423.1	376.9	340.5	324.0
32.5°	7223.1	6282.1	3565.8	1622.0	811.0	470.5	374.7	327.3	306.3	293.1	282.1
35°	7727.8	6658.9	3536.1	1547.1	754.8	428.6	341.6	282.1	246.8	220.4	209.4
37.5°	8256.7	7035.8	3484.3	1485.4	729.5	397.8	325.1	267.8	229.2	201.7	187.3
40°	8804.4	7385.1	3423.7	1428.1	706.3	378.0	315.1	255.6	217.1	187.3	171.9
42.5°	9305.7	7725.6	3399.4	1390.6	668.9	381.3	307.4	250.1	205.0	174.1	160.9
45°	9711.2	8048.4	3432.5	1370.8	628.1	375.8	309.6	243.5	195.0	165.3	152.1
47.5°	10144.3	8504.6	3539.4	1351.0	588.4	349.3	326.2	242.4	190.6	159.8	145.5
50°	10647.9	9088.7	3784.0	1302.5	539.9	320.7	347.1	241.3	185.1	153.2	138.8
52.5°	11319.0	9752.0	4036.3	1217.6	469.4	293.1	331.7	238.0	174.1	145.5	131.1
55°	11921.7	10450.6	4250.1	1117.3	380.2	253.4	298.6	223.7	155.4	132.2	119.0
57.5°	12170.7	10845.1	4243.5	978.5	304.1	222.6	245.7	205.0	135.5	116.8	105.8
59°	12079.3	10795.5	4101.4	876.0	277.7	206.1	203.9	202.8	126.7	105.8	97.0
60°	11950.4	10614.8	3948.2	825.3	261.2	195.0	187.3	200.5	119.0	99.2	90.4
62.5°	11456.7	9865.5	3440.2	739.4	239.1	165.3	149.9	169.7	105.8	85.9	78.2
65°	10741.5	8714.0	2912.4	715.1	232.5	136.6	124.5	121.2	90.4	72.7	66.1
67.5°	9346.5	7374.1	2359.2	698.6	234.7	114.6	109.1	91.5	74.9	60.6	56.2
70°	7483.2	5749.8	1931.7	679.9	236.9	93.7	91.5	72.7	60.6	50.7	46.3
72.5°	4546.5	3408.2	1520.7	590.6	230.3	74.9	81.5	55.1	44.1	36.4	34.2
75°	2811.0	2332.8	943.2	459.5	152.1	55.1	57.3	34.2	29.8	23.1	23.1
77.5°	1628.6	1473.3	337.2	165.3	67.2	33.1	25.3	17.6	16.5	9.9	9.9
80°	675.5	541.0	116.8	56.2	36.4	15.4	5.5	1.1	0.0	0.0	0.0
82.5°	197.2	175.2	32.0	25.3	11.0	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°	4847.4	4847.4	4847.4	4847.4	4847.4	4847.4	4847.4	4847.4	4847.4	4847.4	4847.4
2.5°	3920.6	3884.3	3867.7	3923.9	3872.2	3938.3	3887.6	3909.6	3974.6	4003.3	4077.1
5°	2934.4	2897.0	2879.3	2964.2	2959.8	3001.6	2997.2	3035.8	3068.9	2995.0	3071.1
7.5°	2044.1	2018.7	2060.6	2126.7	2197.2	2174.1	2174.1	2122.3	2139.9	2128.9	2125.6
10°	1554.8	1467.8	1445.7	1443.5	1470.0	1475.5	1445.7	1374.1	1400.5	1408.3	1454.5
12.5°	1223.1	1155.9	1053.4	1007.2	995.0	1005.0	906.9	844.1	873.8	856.2	901.4
15°	877.1	822.0	761.4	709.6	695.3	675.5	568.6	493.7	484.8	488.2	495.9
17.5°	625.9	588.4	588.4	533.3	503.6	444.1	390.1	357.0	353.7	357.0	362.5
20°	461.7	441.9	439.7	425.3	392.3	352.6	315.1	308.5	306.3	311.8	314.0
22.5°	397.8	376.9	359.2	358.1	327.3	294.2	276.6	267.8	268.9	271.1	276.6
25°	355.9	333.9	315.1	304.1	282.1	259.0	242.4	238.0	238.0	241.3	242.4
27.5°	326.2	298.6	282.1	266.7	246.8	227.0	212.7	209.4	207.2	209.4	214.9
30°	305.2	277.7	256.7	233.6	218.2	199.4	187.3	182.9	181.8	182.9	187.3
32.5°	261.2	244.6	228.1	207.2	188.4	176.3	163.1	155.4	155.4	157.6	162.0
35°	197.2	188.4	187.3	181.8	166.4	153.2	137.7	130.0	130.0	134.4	136.6
37.5°	174.1	157.6	155.4	153.2	146.6	128.9	114.6	108.0	106.9	110.2	114.6
40°	158.7	139.9	130.0	127.8	128.9	109.1	93.7	87.1	87.1	88.2	92.6
42.5°	146.6	124.5	106.9	104.7	109.1	91.5	76.0	69.4	69.4	69.4	74.9
45°	136.6	111.3	90.4	79.3	85.9	74.9	61.7	55.1	52.9	55.1	57.3
47.5°	130.0	101.4	79.3	63.9	63.9	59.5	49.6	41.9	39.7	40.8	44.1
50°	124.5	92.6	67.2	51.8	46.3	47.4	37.5	32.0	29.8	29.8	33.1
52.5°	115.7	83.7	58.4	44.1	35.3	32.0	27.5	23.1	22.0	23.1	25.3
55°	104.7	76.0	50.7	36.4	27.5	22.0	19.8	16.5	15.4	16.5	19.8
57.5°	92.6	63.9	40.8	28.6	18.7	14.3	13.2	11.0	8.8	9.9	12.1
59°	84.8	57.3	35.3	23.1	14.3	9.9	9.9	7.7	5.5	6.6	9.9
60°	81.5	52.9	29.8	19.8	12.1	7.7	7.7	5.5	3.3	4.4	7.7
62.5°	69.4	44.1	23.1	12.1	5.5	1.1	3.3	1.1	0.0	1.1	3.3
65°	58.4	35.3	15.4	5.5	0.0	0.0	0.0	0.0	0.0	0.0	1.1
67.5°	48.5	26.4	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	38.6	17.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	26.4	9.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	16.5	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	6.6	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: P454987

CATALOG NUMBER: GALN-SA6A-827-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4847.4	4847.4	4847.4	4847.4	4847.4	4847.4	4847.4	4847.4	4847.4	4847.4
2.5°	4081.5	4239.1	4336.1	4519.0	4706.3	4850.7	5031.4	5193.4	5260.6	5295.8
5°	3148.2	3367.5	3553.7	3832.5	4091.4	4406.6	4726.1	5103.0	5247.4	5284.8
7.5°	2209.4	2433.0	2628.1	2950.9	3320.1	3742.1	4220.4	4698.6	4909.1	4968.6
10°	1595.6	1834.7	2072.7	2395.6	2740.5	3197.8	3695.8	4287.6	4530.0	4576.3
12.5°	1007.2	1263.9	1650.7	2049.6	2414.3	2782.4	3303.6	3947.1	4214.9	4299.7
15°	584.0	775.8	1067.8	1587.9	2051.8	2538.8	3107.4	3819.3	4119.0	4206.0
17.5°	391.2	457.3	657.8	1055.6	1668.3	2314.0	3057.8	3923.9	4255.6	4366.9
20°	329.5	359.2	429.7	643.5	1284.8	2113.5	3071.1	4208.2	4643.5	4782.3
22.5°	289.8	317.4	362.5	462.8	897.0	1864.5	3133.9	4614.9	5176.8	5354.2
25°	255.6	283.2	322.9	383.5	602.8	1576.9	3271.6	5209.9	5883.2	6078.2
27.5°	227.0	252.3	286.5	338.3	463.9	1256.2	3393.9	5789.5	6527.8	6686.5
30°	200.5	221.5	254.5	294.2	385.7	968.6	3455.6	6296.4	6997.2	7173.5
32.5°	174.1	193.9	225.9	257.8	317.4	738.3	3412.7	6668.8	7453.4	7565.8
35°	148.8	169.7	196.1	225.9	274.4	596.1	3197.8	7087.6	7926.1	8014.3
37.5°	127.8	145.5	173.0	196.1	247.9	477.1	2937.7	7464.4	8456.2	8582.9
40°	108.0	125.6	153.2	174.1	228.1	375.8	2703.0	7883.2	9014.8	9171.3
42.5°	88.2	109.1	133.3	167.5	196.1	286.5	2418.7	8222.5	9434.7	9630.8
45°	70.5	93.7	120.1	166.4	170.8	218.2	2144.3	8487.0	9806.0	9982.3
47.5°	56.2	79.3	115.7	155.4	139.9	173.0	1987.9	8763.6	10114.5	10255.6
50°	45.2	66.1	121.2	136.6	116.8	146.6	1983.5	9072.1	10274.3	10368.0
52.5°	36.4	54.0	102.5	104.7	99.2	128.9	2102.5	9419.2	10437.4	10514.5
55°	30.9	45.2	67.2	77.1	89.3	116.8	2191.7	9953.7	10826.4	10899.1
57.5°	24.2	38.6	51.8	61.7	79.3	106.9	2203.8	10365.8	11319.0	11366.3
59°	20.9	33.1	46.3	55.1	72.7	100.3	2154.3	10391.1	11350.9	11426.9
60°	17.6	29.8	40.8	51.8	67.2	94.8	2100.3	10207.1	11231.9	11316.7
62.5°	13.2	23.1	29.8	41.9	55.1	81.5	1844.6	9564.7	10776.8	10836.3
65°	8.8	16.5	22.0	30.9	43.0	70.5	1503.0	8731.6	10073.8	10207.1
67.5°	5.5	12.1	17.6	23.1	35.3	59.5	1071.1	7487.6	9089.8	9175.7
70°	3.3	7.7	13.2	18.7	27.5	47.4	635.8	5918.4	7562.5	7580.1
72.5°	2.2	5.5	8.8	13.2	22.0	43.0	308.5	3857.8	5521.7	5732.2
75°	1.1	3.3	5.5	9.9	17.6	35.3	147.7	2577.4	4017.6	4078.2
77.5°	0.0	1.1	3.3	6.6	13.2	27.5	85.9	1692.6	2739.4	2802.2
80°	0.0	0.0	2.2	5.5	9.9	17.6	51.8	998.3	1659.5	1690.3
82.5°	0.0	0.0	1.1	4.4	6.6	13.2	26.4	438.6	1086.5	1097.5
85°	0.0	0.0	1.1	4.4	5.5	8.8	9.9	59.5	482.6	491.5
87.5°	0.0	0.0	1.1	5.5	5.5	5.5	5.5	3.3	40.8	50.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)