

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: P455221

Luminaire Tested: **GALN-SA6B-827-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455221
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6B-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17813 lumens
Efficiency: N/A
Efficacy: 73.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

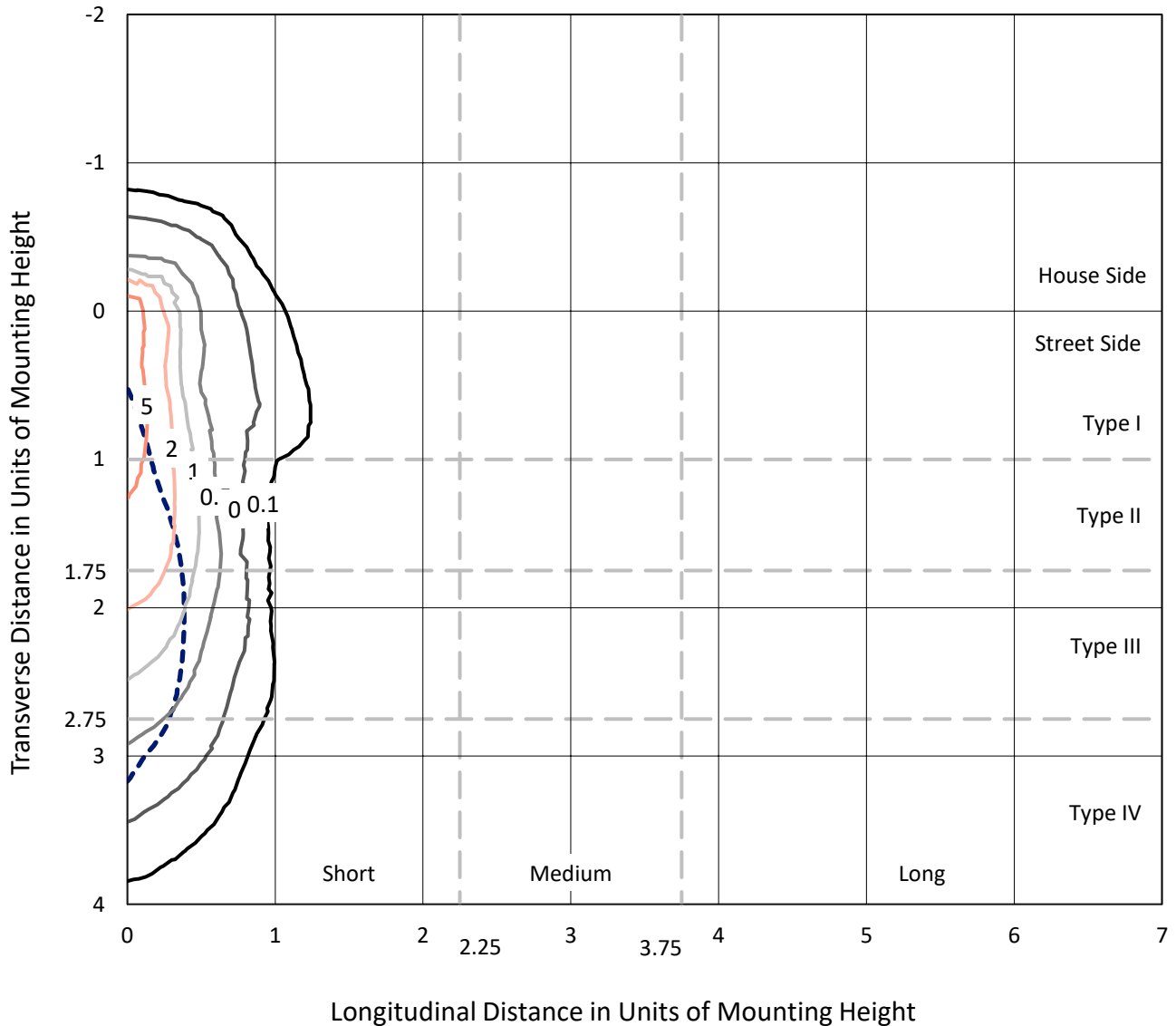
Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

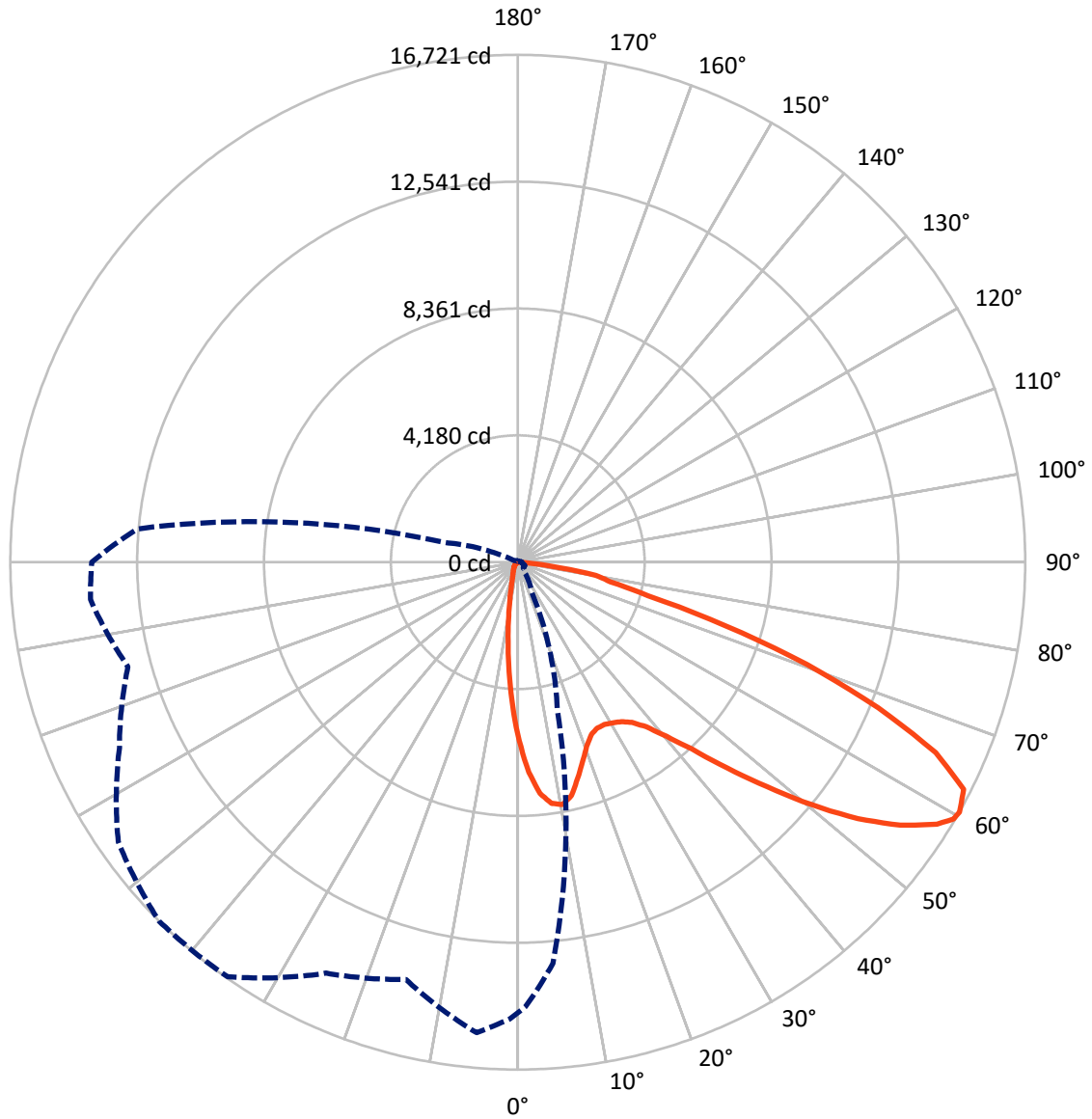
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2197.1	0.0	2197.1
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	15615.9	0.0	15615.9
	% Fixture	87.7	0.0	87.7
Total	Lumens	17813.0	0.0	17813.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.9	2.5
10°-20°	869.6	4.9
20°-30°	1275.1	7.2
30°-40°	1896.4	10.6
40°-50°	2759.8	15.5
50°-60°	3979.8	22.3
60°-70°	4377.4	24.6
70°-80°	1960.7	11.0
80°-90°	256.2	1.4
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°	17813.0	100.0
0°-180°	17813.0	100.0



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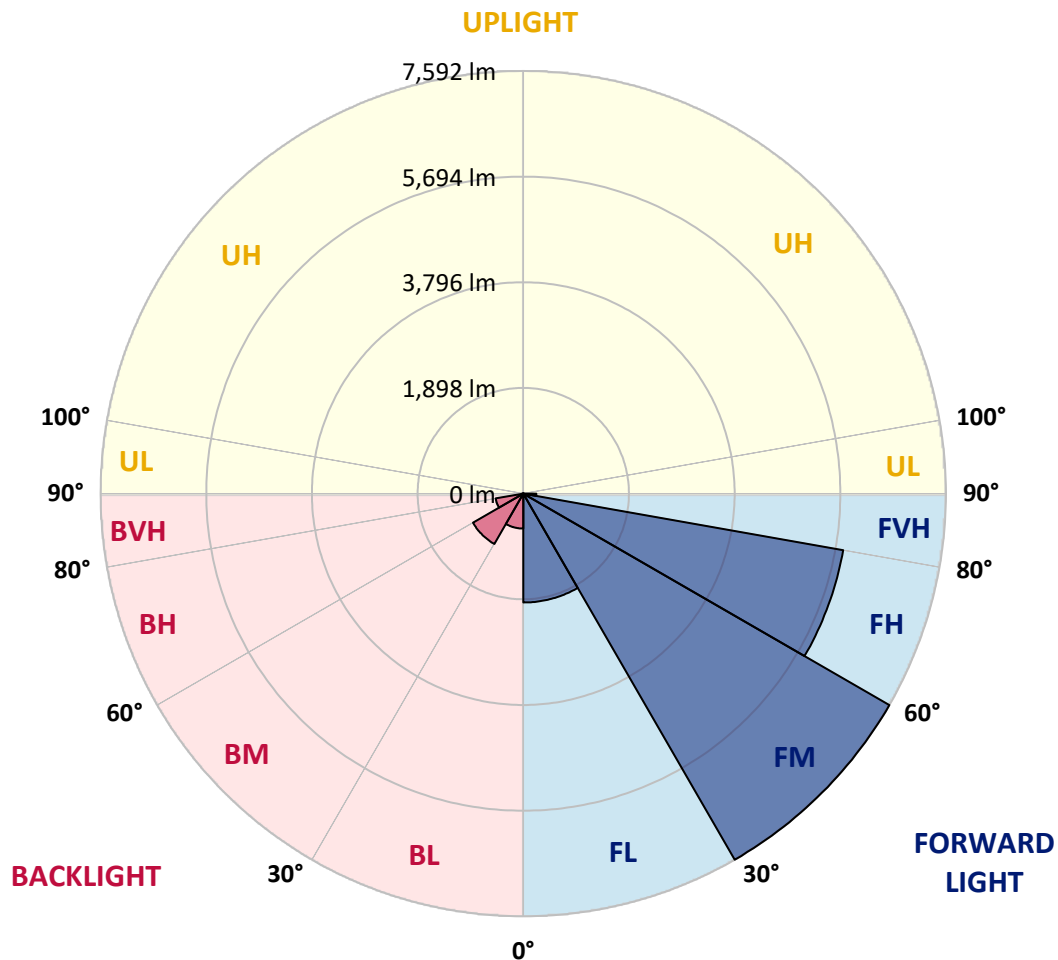
CATALOG NUMBER: GALN-SA6B-827-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1954.9	11.0			
FM	(30°-60°)	7592.4	42.6			
FH	(60°-80°)	5834.3	32.8			G3/7500
FVH	(80°-90°)	234.3	1.3			G3/500
BL	(0°-30°)	627.8	3.5	B2/1000		
BM	(30°-60°)	1043.5	5.9	B2/2500		
BH	(60°-80°)	503.8	2.8	B2/1000		G2/1000
BVH	(80°-90°)	21.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5887.5	5887.5	5887.5	5887.5	5887.5	5887.5	5887.5	5887.5	5887.5	5887.5	5887.5
2.5°	6472.4	6444.0	6379.0	6181.3	6009.3	5784.5	5557.1	5378.3	5268.6	5066.9	4974.8
5°	6270.6	6284.2	6096.0	5689.8	5237.5	4928.8	4591.6	4323.5	4028.3	3841.5	3645.1
7.5°	5743.9	5716.8	5512.4	4946.4	4396.6	3949.8	3523.3	3176.6	2958.6	2783.9	2637.7
10°	5293.0	5272.7	5011.4	4282.9	3692.5	3358.1	3069.7	2766.3	2532.1	2276.2	2071.7
12.5°	5010.0	4964.0	4663.4	3902.4	3421.7	3110.3	2796.1	2480.6	2157.0	1898.4	1650.6
15°	4915.2	4848.9	4514.4	3771.1	3248.4	2853.0	2459.0	2096.1	1723.7	1438.0	1251.2
17.5°	5087.2	4977.5	4621.4	3748.0	3041.2	2517.2	2032.4	1559.9	1172.6	954.6	839.5
20°	5481.2	5355.3	4892.2	3725.0	2811.0	2140.8	1545.0	1102.2	811.1	691.9	628.3
22.5°	6066.2	5892.9	5293.0	3761.6	2598.4	1773.8	1115.7	778.6	644.5	570.1	525.4
25°	6768.9	6624.1	5800.8	3891.6	2430.5	1485.4	862.5	636.4	543.0	496.9	463.1
27.5°	7539.4	7307.9	6457.5	4047.3	2277.5	1262.0	756.9	568.7	483.4	441.4	423.8
30°	8087.8	7907.7	7007.3	4155.6	2086.6	1094.1	691.9	560.6	484.8	434.7	402.2
32.5°	8629.4	8399.2	7467.6	4205.7	1947.1	977.6	598.5	488.8	425.2	399.4	367.0
35°	9209.0	8967.9	7926.7	4178.6	1842.9	900.4	543.0	436.0	364.2	320.9	288.4
37.5°	9795.3	9540.7	8383.0	4081.1	1777.9	869.3	499.6	414.3	343.9	299.2	264.0
40°	10491.3	10151.4	8810.9	4001.2	1710.2	853.1	471.2	400.8	329.0	281.6	246.4
42.5°	11060.0	10736.3	9215.7	3959.3	1664.1	815.1	471.2	390.0	319.6	266.7	230.2
45°	11598.9	11263.1	9653.1	3993.1	1645.2	767.8	476.6	388.6	312.8	255.9	219.4
47.5°	12049.8	11758.7	10102.6	4120.4	1620.8	716.3	448.2	407.6	308.7	246.4	208.5
50°	12581.9	12300.3	10697.1	4377.7	1577.5	664.8	413.0	438.7	307.4	238.3	199.0
52.5°	13332.1	13027.4	11517.6	4670.2	1508.4	586.3	380.5	434.7	302.0	224.8	189.6
55°	14248.8	14002.3	12468.2	5020.9	1413.6	498.3	329.0	385.9	285.7	201.8	173.3
57.5°	14836.4	14626.6	13180.4	5172.5	1268.8	407.6	289.8	323.6	261.3	180.1	154.4
59°	14905.5	14715.9	13329.4	5122.4	1174.0	372.4	270.8	277.6	254.6	167.9	143.5
60°	14847.3	14650.9	13269.8	5024.9	1086.0	348.0	254.6	246.4	255.9	161.1	135.4
62.5°	14473.5	14137.7	12691.6	4530.7	949.2	319.6	226.1	201.8	226.1	144.9	120.5
65°	13751.8	13248.1	11547.4	3834.7	895.0	303.3	192.3	169.3	172.0	127.3	104.3
67.5°	12491.2	11856.1	10024.1	3115.7	872.0	304.7	162.5	151.7	132.7	108.3	92.1
70°	10498.0	9864.3	8043.1	2563.2	861.2	304.7	138.1	130.0	111.0	90.7	79.9
72.5°	7439.2	6756.8	5425.7	2013.5	775.9	303.3	117.8	117.8	90.7	75.8	65.0
75°	4203.0	4208.4	3410.9	1424.5	644.5	250.5	94.8	93.4	66.3	58.2	48.7
77.5°	2449.5	2406.2	2299.2	612.0	299.2	113.7	66.3	56.9	46.0	42.0	35.2
80°	1259.3	1035.9	1008.8	222.1	107.0	71.8	46.0	32.5	29.8	27.1	24.4
82.5°	372.4	373.7	333.1	89.4	59.6	47.4	23.0	17.6	16.2	14.9	14.9
85°	25.7	16.2	19.0	27.1	36.6	19.0	1.4	4.1	4.1	5.4	6.8
87.5°	2.7	1.4	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°	5887.5	5887.5	5887.5	5887.5	5887.5	5887.5	5887.5	5887.5	5887.5	5887.5	5887.5
2.5°	4873.3	4932.8	4821.8	4824.5	4732.4	4762.2	4653.9	4689.1	4625.5	4674.2	4817.7
5°	3666.8	3680.3	3591.0	3562.5	3576.1	3631.6	3653.3	3554.4	3596.4	3513.8	3508.4
7.5°	2583.5	2599.8	2548.3	2541.6	2639.1	2616.0	2658.0	2556.5	2460.3	2502.3	2425.1
10°	2006.7	1939.0	1833.4	1803.6	1784.7	1796.8	1796.8	1704.8	1691.2	1654.7	1710.2
12.5°	1584.2	1501.7	1401.5	1266.0	1232.2	1229.5	1179.4	1098.1	1072.4	1041.3	1087.3
15°	1151.0	1117.1	1033.1	957.3	880.1	865.2	784.0	717.7	629.6	617.5	613.4
17.5°	809.7	759.6	758.3	714.9	670.3	640.5	564.6	488.8	455.0	450.9	450.9
20°	606.6	589.0	560.6	555.2	541.6	507.8	440.1	399.4	383.2	384.6	390.0
22.5°	510.5	498.3	472.6	460.4	455.0	425.2	375.1	348.0	339.9	339.9	341.2
25°	456.3	445.5	417.1	398.1	391.3	369.7	330.4	310.1	303.3	303.3	303.3
27.5°	415.7	402.2	372.4	356.1	343.9	319.6	295.2	274.9	268.1	268.1	269.5
30°	387.3	372.4	345.3	323.6	304.7	283.0	262.7	245.1	237.0	235.6	237.0
32.5°	349.3	335.8	308.7	295.2	273.5	247.8	231.5	215.3	207.2	208.5	207.2
35°	272.2	268.1	249.1	253.2	241.0	219.4	204.5	186.9	177.4	176.0	178.7
37.5°	247.8	231.5	209.9	211.2	207.2	199.0	174.7	155.7	148.9	148.9	150.3
40°	228.8	212.6	188.2	176.0	177.4	177.4	151.7	131.3	124.6	123.2	125.9
42.5°	212.6	196.3	169.3	148.9	143.5	150.3	128.6	108.3	101.6	98.8	101.6
45°	201.8	184.2	153.0	130.0	113.7	121.9	105.6	89.4	81.2	81.2	79.9
47.5°	190.9	174.7	140.8	112.4	94.8	90.7	86.7	71.8	63.6	62.3	63.6
50°	181.4	165.2	127.3	97.5	79.9	70.4	70.4	56.9	51.5	48.7	50.1
52.5°	172.0	154.4	115.1	86.7	69.1	56.9	50.1	46.0	42.0	40.6	42.0
55°	158.4	140.8	102.9	74.5	59.6	47.4	39.3	37.9	35.2	32.5	35.2
57.5°	142.2	125.9	90.7	63.6	47.4	36.6	32.5	31.1	28.4	27.1	27.1
59°	132.7	117.8	84.0	55.5	42.0	32.5	29.8	28.4	25.7	23.0	24.4
60°	127.3	115.1	79.9	51.5	37.9	29.8	27.1	25.7	23.0	21.7	23.0
62.5°	112.4	102.9	70.4	42.0	29.8	21.7	19.0	20.3	19.0	17.6	19.0
65°	98.8	90.7	59.6	32.5	23.0	14.9	13.5	17.6	16.2	14.9	16.2
67.5°	88.0	78.5	50.1	24.4	16.2	8.1	9.5	14.9	14.9	13.5	14.9
70°	75.8	67.7	40.6	17.6	8.1	4.1	6.8	10.8	13.5	12.2	13.5
72.5°	62.3	52.8	31.1	12.2	4.1	0.0	4.1	9.5	13.5	12.2	13.5
75°	48.7	39.3	23.0	6.8	0.0	0.0	1.4	8.1	13.5	12.2	13.5
77.5°	35.2	28.4	13.5	1.4	0.0	0.0	1.4	8.1	13.5	12.2	13.5
80°	23.0	20.3	5.4	0.0	0.0	0.0	1.4	8.1	13.5	13.5	14.9
82.5°	14.9	10.8	0.0	0.0	0.0	0.0	2.7	10.8	14.9	16.2	16.2
85°	6.8	0.0	0.0	0.0	0.0	0.0	5.4	13.5	17.6	17.6	17.6
87.5°	0.0	0.0	0.0	0.0	0.0	2.7	9.5	16.2	20.3	20.3	20.3
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°	5887.5	5887.5	5887.5	5887.5	5887.5	5887.5	5887.5	5887.5	5887.5	5887.5	5887.5
2.5°	4842.1	4927.4	5047.9	5233.4	5383.7	5620.7	5802.1	6049.9	6300.4	6376.3	6494.1
5°	3563.9	3673.6	3947.1	4196.2	4353.3	4854.3	5171.2	5670.8	6119.0	6334.3	6568.5
7.5°	2475.2	2605.2	2813.7	3161.7	3492.1	3899.7	4411.5	4982.9	5639.7	5947.0	6277.4
10°	1737.3	1899.7	2193.6	2479.3	2895.0	3282.2	3787.3	4418.3	5142.7	5505.6	5919.9
12.5°	1096.8	1241.7	1630.3	1951.2	2469.8	2919.4	3385.1	3956.6	4796.1	5168.4	5603.1
15°	626.9	748.8	930.2	1341.9	1917.3	2511.8	3092.7	3756.2	4618.7	5077.7	5547.6
17.5°	467.2	499.6	580.9	813.8	1337.8	2032.4	2823.2	3695.2	4739.2	5278.1	5814.3
20°	392.7	414.3	452.3	544.3	853.1	1565.3	2560.5	3706.1	5129.2	5806.2	6315.3
22.5°	352.1	365.6	396.7	456.3	582.2	1140.1	2253.2	3769.7	5601.7	6454.8	7042.5
25°	308.7	326.3	353.4	404.9	484.8	790.8	1949.8	3911.9	6263.9	7278.1	7830.5
27.5°	274.9	291.1	318.2	365.6	425.2	603.9	1596.4	4033.7	6962.6	8106.8	8559.0
30°	241.0	257.3	284.4	322.3	376.4	488.8	1215.9	4105.5	7641.0	8728.3	9076.3
32.5°	212.6	226.1	251.9	285.7	330.4	414.3	958.7	4031.0	8159.6	9292.9	9525.8
35°	184.2	200.4	222.1	253.2	292.5	353.4	797.5	3773.8	8605.0	9873.8	9957.8
37.5°	154.4	173.3	196.3	224.8	255.9	325.0	640.5	3489.4	9081.7	10598.2	10460.1
40°	130.0	147.6	169.3	200.4	228.8	297.9	492.9	3186.1	9596.2	11278.0	11008.5
42.5°	105.6	124.6	150.3	178.7	226.1	260.0	381.8	2872.0	10058.0	11869.7	11504.1
45°	84.0	100.2	127.3	163.8	224.8	223.4	295.2	2561.9	10405.9	12292.2	11873.7
47.5°	66.3	79.9	107.0	159.8	207.2	189.6	237.0	2369.6	10771.5	12672.6	12156.7
50°	52.8	66.3	92.1	166.5	181.4	162.5	199.0	2400.7	11125.0	12866.3	12273.2
52.5°	44.7	58.2	79.9	131.3	139.5	142.2	174.7	2544.3	11581.3	13073.4	12504.7
55°	39.3	51.5	67.7	92.1	108.3	127.3	159.8	2648.5	12192.0	13517.6	13015.2
57.5°	31.1	44.7	60.9	78.5	89.4	111.0	147.6	2656.7	12744.4	14087.6	13693.6
59°	28.4	40.6	56.9	74.5	79.9	100.2	139.5	2587.6	12764.7	14172.9	14005.0
60°	25.7	39.3	54.2	69.1	75.8	94.8	132.7	2507.7	12580.6	14037.5	14133.7
62.5°	21.7	33.9	47.4	55.5	65.0	78.5	115.1	2217.9	11688.2	13424.1	13895.4
65°	19.0	29.8	40.6	46.0	54.2	67.7	101.6	1775.2	10702.5	12592.8	13212.9
67.5°	17.6	27.1	35.2	39.3	47.4	62.3	90.7	1253.9	9425.6	11537.9	12187.9
70°	16.2	25.7	31.1	36.6	42.0	52.8	77.2	731.2	7260.5	9688.3	10374.8
72.5°	16.2	24.4	27.1	31.1	36.6	47.4	71.8	395.4	4964.0	7390.5	8277.4
75°	16.2	23.0	24.4	27.1	32.5	43.3	63.6	207.2	3209.1	5134.6	6337.0
77.5°	16.2	21.7	24.4	25.7	31.1	37.9	55.5	130.0	2138.1	3596.4	4282.9
80°	17.6	21.7	23.0	25.7	29.8	35.2	46.0	86.7	1256.6	2163.8	2606.6
82.5°	19.0	21.7	24.4	27.1	31.1	33.9	40.6	54.2	579.5	1431.2	1619.5
85°	20.3	23.0	25.7	28.4	32.5	33.9	37.9	39.3	94.8	645.9	873.4
87.5°	21.7	24.4	27.1	29.8	35.2	35.2	35.2	35.2	32.5	69.1	176.0
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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CATALOG NUMBER: GALN-SA6B-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5887.5	5887.5	5887.5	5887.5	5887.5	5887.5	5887.5	5887.5	5887.5	5887.5
2.5°	6643.0	6796.0	6903.0	6930.1	6852.9	6817.7	6720.2	6568.5	6476.5	6472.4
5°	7000.5	7359.3	7608.5	7650.4	7501.5	7249.6	6950.4	6564.5	6338.4	6270.6
7.5°	6939.6	7567.8	7968.6	8026.9	7776.4	7295.7	6716.1	6094.6	5848.2	5743.9
10°	6689.1	7455.5	8028.2	8120.3	7785.8	7108.8	6372.2	5678.9	5372.9	5293.0
12.5°	6475.1	7249.6	7758.8	7886.0	7632.8	6957.2	6166.4	5412.2	5084.5	5010.0
15°	6381.7	7005.9	7317.3	7382.3	7340.4	6862.4	6144.7	5371.6	4996.5	4915.2
17.5°	6475.1	6798.7	6838.0	6904.3	6997.8	6852.9	6353.2	5592.3	5187.4	5087.2
20°	6720.2	6618.6	6456.2	6484.6	6698.5	6892.2	6724.3	6081.1	5588.2	5481.2
22.5°	7137.2	6574.0	6205.7	6181.3	6452.1	7023.5	7268.6	6743.2	6171.8	6066.2
25°	7649.1	6686.3	6113.6	6060.8	6356.0	7215.8	7860.3	7554.3	6930.1	6768.9
27.5°	8207.0	6919.2	6113.6	6062.1	6347.8	7386.4	8366.7	8272.0	7715.4	7539.4
30°	8513.0	7111.5	6201.6	6143.4	6448.0	7485.2	8637.5	8909.7	8305.8	8087.8
32.5°	8786.5	7378.3	6373.6	6263.9	6657.9	7631.5	8879.9	9451.3	8775.7	8629.4
35°	9038.3	7664.0	6610.5	6483.2	6934.1	7831.9	9148.0	10020.0	9429.7	9209.0
37.5°	9315.9	7995.7	6980.2	6871.9	7395.9	8221.8	9466.2	10767.5	10072.8	9795.3
40°	9617.9	8380.3	7588.1	7542.1	8129.8	8663.3	9868.4	11565.0	10806.7	10491.3
42.5°	9925.3	8823.1	8332.9	8408.7	8961.2	9282.1	10281.4	12178.4	11408.0	11060.0
45°	10204.2	9389.0	9301.0	9676.1	9930.7	9886.0	10587.4	12610.4	11932.0	11598.9
47.5°	10556.2	10213.7	10472.3	11050.5	11057.3	10542.7	10818.9	12963.8	12382.9	12049.8
50°	10950.3	11187.2	11984.8	12573.8	12415.4	11188.6	11089.7	13382.2	12848.7	12581.9
52.5°	11406.6	12277.3	13382.2	14036.2	13666.5	11892.7	11540.6	13834.4	13588.0	13332.1
55°	11937.4	13020.6	14775.5	15296.8	14924.4	12767.4	12225.8	14447.8	14423.4	14248.8
57.5°	12537.2	13806.0	15582.5	16288.0	15956.2	13793.8	13183.1	15026.0	14933.9	14836.4
59°	13011.2	14209.5	15938.6	16669.8	16469.4	14512.8	13826.3	15386.2	15051.7	14905.5
60°	13298.2	14483.0	16070.0	16721.3	16675.2	14940.7	14233.9	15562.2	15050.4	14847.3
62.5°	14149.9	14961.0	16019.9	16492.4	16672.5	15761.3	15429.5	15755.8	14771.4	14473.5
65°	14453.2	14802.6	15189.8	15131.6	15286.0	15719.3	16193.2	15543.3	14175.6	13751.8
67.5°	13862.9	13065.3	13202.1	12813.5	12737.6	13975.2	15883.1	14503.3	13009.8	12491.2
70°	11685.5	10009.2	9940.2	10118.9	9628.7	11314.5	14262.3	12500.7	11085.7	10498.0
72.5°	9198.1	7073.6	6491.4	7149.4	7134.5	8632.1	11848.0	8870.4	7489.3	7439.2
75°	7233.4	4924.7	4322.2	4429.1	4634.9	6249.0	9436.4	5632.9	4611.9	4203.0
77.5°	4855.7	3489.4	3255.2	3123.8	3345.9	4012.1	5970.0	3054.8	2586.3	2449.5
80°	2798.8	2534.8	2878.7	2613.3	2732.5	2528.0	2969.5	1401.5	1163.1	1259.3
82.5°	1821.2	1443.4	1538.2	1142.8	1562.6	1576.1	953.3	414.3	350.7	372.4
85°	1138.8	677.0	380.5	270.8	538.9	991.2	297.9	25.7	29.8	25.7
87.5°	295.2	112.4	47.4	70.4	86.7	77.2	69.1	4.1	1.4	2.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)