

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: P455453

Luminaire Tested: **GALN-SA6C-827-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455453
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-SA6C-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1050mA 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: 22009 lumens
Efficiency: N/A
Efficacy: 68.6 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): 321
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

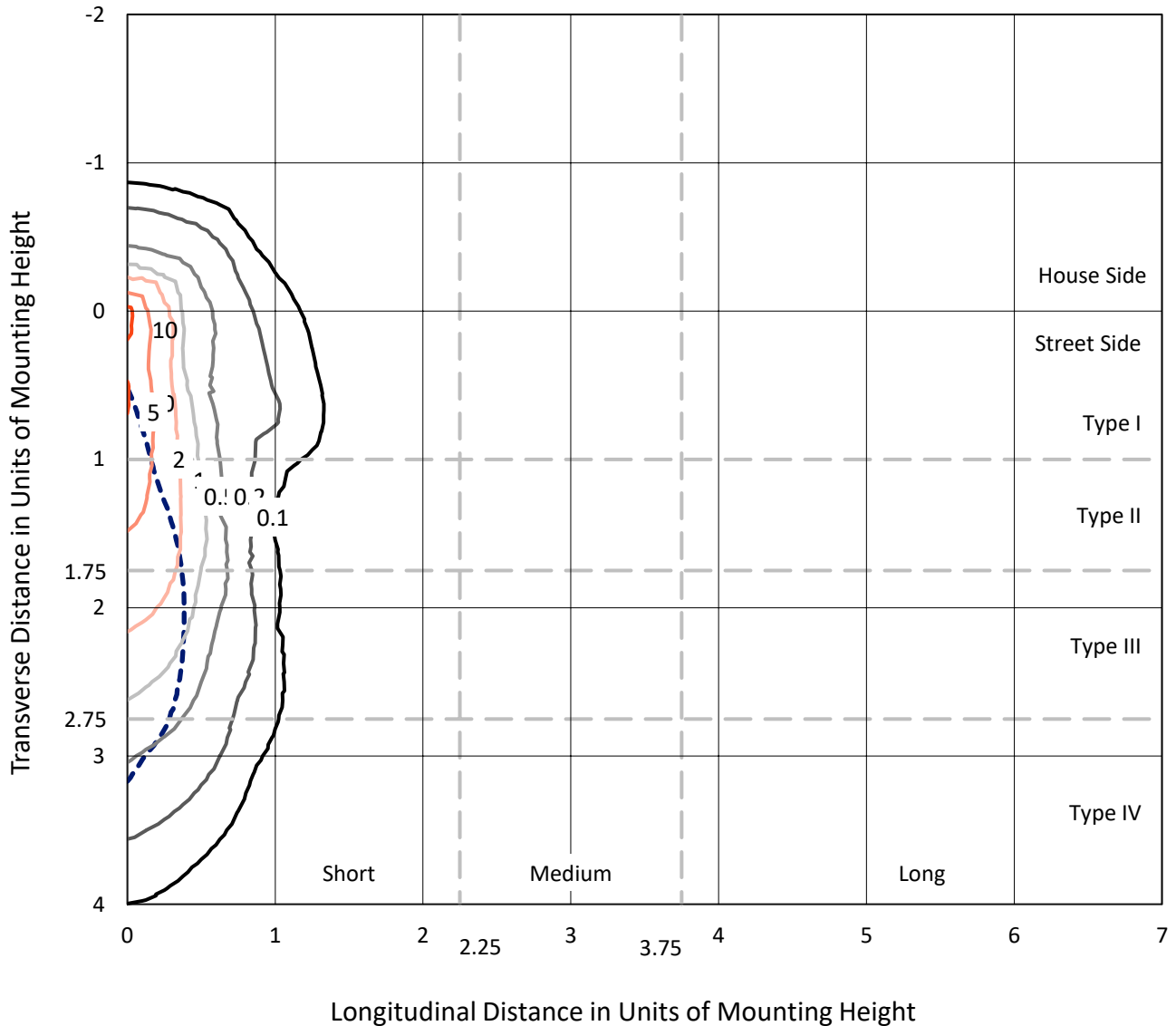




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Iso-Footcandle Lines of Horizontal Illumination

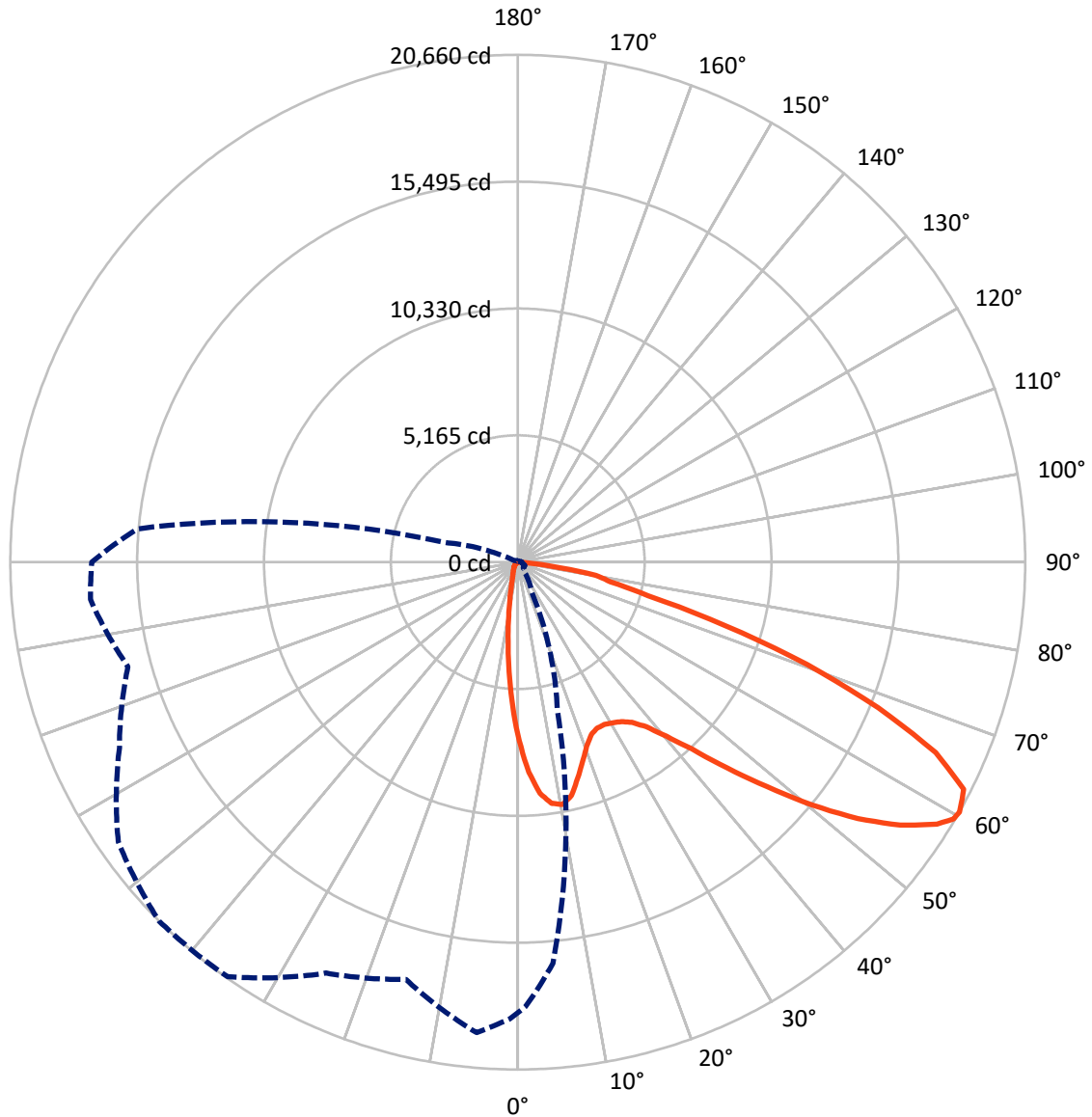
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 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	2714.6	0.0	2714.6
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	19294.4	0.0	19294.4
	% Fixture	87.7	0.0	87.7
Total	Lumens	22009.0	0.0	22009.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	541.0	2.5
10°-20°	1074.5	4.9
20°-30°	1575.5	7.2
30°-40°	2343.1	10.6
40°-50°	3409.9	15.5
50°-60°	4917.3	22.3
60°-70°	5408.5	24.6
70°-80°	2422.6	11.0
80°-90°	316.5	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°	22009.0	100.0
0°-180°	22009.0	100.0



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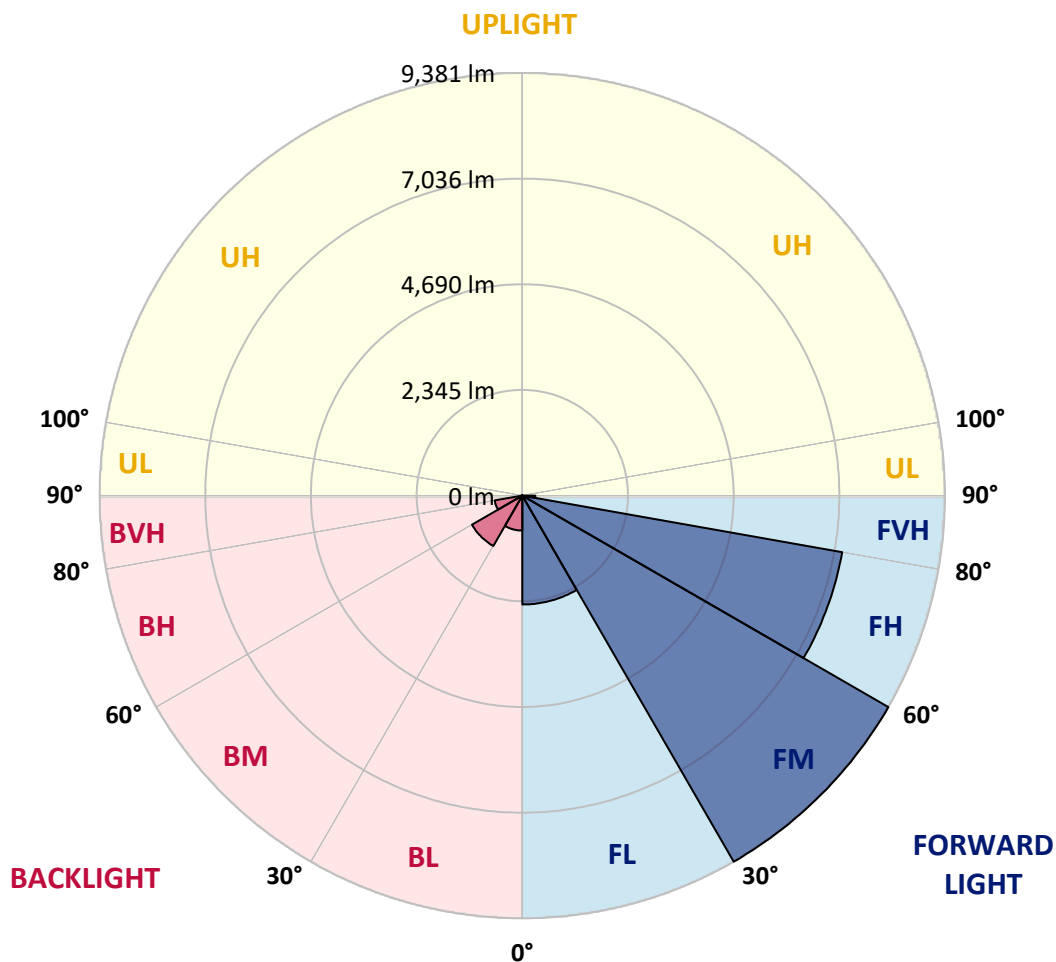
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2415.4	11.0			
FM	(30°-60°)	9380.9	42.6			
FH	(60°-80°)	7208.6	32.8			G3/7500
FVH	(80°-90°)	289.5	1.3			G3/500
BL	(0°-30°)	775.6	3.5	B2/1000		
BM	(30°-60°)	1289.4	5.9	B2/2500		
BH	(60°-80°)	622.5	2.8	B2/1000		G2/1000
BVH	(80°-90°)	27.1	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°	7274.3	7274.3	7274.3	7274.3	7274.3	7274.3	7274.3	7274.3	7274.3	7274.3	7274.3
2.5°	7997.0	7961.9	7881.6	7637.3	7424.9	7147.1	6866.1	6645.2	6509.7	6260.4	6146.7
5°	7747.8	7764.5	7531.9	7030.0	6471.2	6089.8	5673.2	5342.0	4977.2	4746.4	4503.8
7.5°	7096.9	7063.5	6810.9	6111.5	5432.3	4880.2	4353.2	3924.9	3655.5	3439.7	3259.0
10°	6539.8	6514.7	6191.8	5291.8	4562.3	4149.1	3792.7	3418.0	3128.5	2812.3	2559.7
12.5°	6190.2	6133.3	5761.9	4821.6	4227.7	3842.9	3454.8	3065.0	2665.1	2345.6	2039.4
15°	6073.1	5991.1	5577.8	4659.4	4013.6	3525.1	3038.2	2589.8	2129.8	1776.7	1545.9
17.5°	6285.5	6150.0	5710.0	4630.9	3757.6	3110.1	2511.2	1927.3	1448.8	1179.5	1037.3
20°	6772.4	6616.8	6044.6	4602.5	3473.2	2645.0	1908.9	1361.8	1002.1	854.9	776.3
22.5°	7495.1	7281.0	6539.8	4647.6	3210.5	2191.7	1378.6	962.0	796.4	704.3	649.1
25°	8363.4	8184.4	7167.2	4808.3	3003.1	1835.3	1065.7	786.3	670.9	614.0	572.2
27.5°	9315.4	9029.3	7978.6	5000.7	2814.0	1559.3	935.2	702.7	597.3	545.4	523.7
30°	9992.9	9770.4	8657.9	5134.5	2578.1	1351.8	854.9	692.6	598.9	537.0	496.9
32.5°	10662.2	10377.7	9226.7	5196.4	2405.8	1207.9	739.5	604.0	525.3	493.5	453.4
35°	11378.2	11080.4	9793.9	5162.9	2277.0	1112.6	670.9	538.7	450.0	396.5	356.4
37.5°	12102.6	11788.1	10357.7	5042.5	2196.7	1074.1	617.3	511.9	424.9	369.7	326.2
40°	12962.6	12542.6	10886.3	4943.8	2113.0	1054.0	582.2	495.2	406.5	348.0	304.5
42.5°	13665.2	13265.4	11386.6	4891.9	2056.1	1007.2	582.2	481.8	394.8	329.6	284.4
45°	14331.1	13916.2	11927.0	4933.7	2032.7	948.6	588.9	480.2	386.5	316.2	271.0
47.5°	14888.2	14528.5	12482.4	5091.0	2002.6	885.0	553.8	503.6	381.4	304.5	257.6
50°	15545.7	15197.7	13216.9	5408.9	1949.1	821.5	510.3	542.1	379.8	294.5	245.9
52.5°	16472.6	16096.1	14230.7	5770.2	1863.7	724.4	470.1	537.0	373.1	277.7	234.2
55°	17605.2	17300.7	15405.2	6203.6	1746.6	615.7	406.5	476.8	353.0	249.3	214.1
57.5°	18331.3	18072.0	16285.2	6390.9	1567.6	503.6	358.0	399.9	322.9	222.5	190.7
59°	18416.6	18182.4	16469.2	6329.0	1450.5	460.1	334.6	343.0	314.5	207.5	177.3
60°	18344.7	18102.1	16395.6	6208.6	1341.8	430.0	314.5	304.5	316.2	199.1	167.3
62.5°	17882.9	17468.0	15681.2	5597.9	1172.8	394.8	279.4	249.3	279.4	179.0	148.9
65°	16991.2	16368.8	14267.5	4738.0	1105.9	374.8	237.6	209.1	212.5	157.3	128.8
67.5°	15433.6	14649.0	12385.4	3849.6	1077.4	376.4	200.8	187.4	164.0	133.8	113.8
70°	12970.9	12187.9	9937.7	3167.0	1064.0	376.4	170.6	160.6	137.2	112.1	98.7
72.5°	9191.6	8348.4	6703.8	2487.8	958.6	374.8	145.6	145.6	112.1	93.7	80.3
75°	5193.1	5199.7	4214.3	1760.0	796.4	309.5	117.1	115.4	82.0	71.9	60.2
77.5°	3026.5	2973.0	2840.8	756.2	369.7	140.5	82.0	70.3	56.9	51.9	43.5
80°	1555.9	1279.9	1246.4	274.4	132.2	88.7	56.9	40.2	36.8	33.5	30.1
82.5°	460.1	461.8	411.6	110.4	73.6	58.6	28.4	21.7	20.1	18.4	18.4
85°	31.8	20.1	23.4	33.5	45.2	23.4	1.7	5.0	5.0	6.7	8.4
87.5°	3.3	1.7	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°	7274.3	7274.3	7274.3	7274.3	7274.3	7274.3	7274.3	7274.3	7274.3	7274.3	7274.3
2.5°	6021.2	6094.8	5957.6	5961.0	5847.2	5884.0	5750.2	5793.7	5715.0	5775.3	5952.6
5°	4530.5	4547.3	4436.8	4401.7	4418.4	4487.0	4513.8	4391.7	4443.5	4341.5	4334.8
7.5°	3192.1	3212.2	3148.6	3140.3	3260.7	3232.3	3284.1	3158.7	3039.9	3091.7	2996.4
10°	2479.4	2395.8	2265.3	2228.5	2205.0	2220.1	2220.1	2106.3	2089.6	2044.4	2113.0
12.5°	1957.4	1855.4	1731.6	1564.3	1522.4	1519.1	1457.2	1356.8	1325.0	1286.6	1343.4
15°	1422.1	1380.2	1276.5	1182.8	1087.5	1069.1	968.7	886.7	778.0	762.9	757.9
17.5°	1000.5	938.6	936.9	883.4	828.1	791.3	697.6	604.0	562.1	557.1	557.1
20°	749.5	727.8	692.6	685.9	669.2	627.4	543.7	493.5	473.5	475.1	481.8
22.5°	630.7	615.7	583.9	568.8	562.1	525.3	463.4	430.0	419.9	419.9	421.6
25°	563.8	550.4	515.3	491.9	483.5	456.7	408.2	383.1	374.8	374.8	374.8
27.5°	513.6	496.9	460.1	440.0	424.9	394.8	364.7	339.6	331.3	331.3	332.9
30°	478.5	460.1	426.6	399.9	376.4	349.7	324.6	302.8	292.8	291.1	292.8
32.5°	431.6	414.9	381.4	364.7	337.9	306.2	286.1	266.0	256.0	257.6	256.0
35°	336.3	331.3	307.8	312.9	297.8	271.0	252.6	230.9	219.2	217.5	220.8
37.5°	306.2	286.1	259.3	261.0	256.0	245.9	215.8	192.4	184.0	184.0	185.7
40°	282.7	262.7	232.5	217.5	219.2	219.2	187.4	162.3	153.9	152.2	155.6
42.5°	262.7	242.6	209.1	184.0	177.3	185.7	158.9	133.8	125.5	122.1	125.5
45°	249.3	227.5	189.1	160.6	140.5	150.6	130.5	110.4	100.4	100.4	98.7
47.5°	235.9	215.8	174.0	138.9	117.1	112.1	107.1	88.7	78.6	77.0	78.6
50°	224.2	204.1	157.3	120.5	98.7	87.0	87.0	70.3	63.6	60.2	61.9
52.5°	212.5	190.7	142.2	107.1	85.3	70.3	61.9	56.9	51.9	50.2	51.9
55°	195.7	174.0	127.1	92.0	73.6	58.6	48.5	46.8	43.5	40.2	43.5
57.5°	175.7	155.6	112.1	78.6	58.6	45.2	40.2	38.5	35.1	33.5	33.5
59°	164.0	145.6	103.7	68.6	51.9	40.2	36.8	35.1	31.8	28.4	30.1
60°	157.3	142.2	98.7	63.6	46.8	36.8	33.5	31.8	28.4	26.8	28.4
62.5°	138.9	127.1	87.0	51.9	36.8	26.8	23.4	25.1	23.4	21.7	23.4
65°	122.1	112.1	73.6	40.2	28.4	18.4	16.7	21.7	20.1	18.4	20.1
67.5°	108.7	97.0	61.9	30.1	20.1	10.0	11.7	18.4	18.4	16.7	18.4
70°	93.7	83.7	50.2	21.7	10.0	5.0	8.4	13.4	16.7	15.1	16.7
72.5°	77.0	65.2	38.5	15.1	5.0	0.0	5.0	11.7	16.7	15.1	16.7
75°	60.2	48.5	28.4	8.4	0.0	0.0	1.7	10.0	16.7	15.1	16.7
77.5°	43.5	35.1	16.7	1.7	0.0	0.0	1.7	10.0	16.7	15.1	16.7
80°	28.4	25.1	6.7	0.0	0.0	0.0	1.7	10.0	16.7	16.7	18.4
82.5°	18.4	13.4	0.0	0.0	0.0	0.0	3.3	13.4	18.4	20.1	20.1
85°	8.4	0.0	0.0	0.0	0.0	0.0	6.7	16.7	21.7	21.7	21.7
87.5°	0.0	0.0	0.0	0.0	0.0	3.3	11.7	20.1	25.1	25.1	25.1
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°	7274.3	7274.3	7274.3	7274.3	7274.3	7274.3	7274.3	7274.3	7274.3	7274.3	7274.3
2.5°	5982.7	6088.1	6237.0	6466.2	6651.9	6944.7	7168.9	7475.1	7784.6	7878.2	8023.8
5°	4403.4	4538.9	4876.9	5184.7	5378.8	5997.8	6389.3	7006.6	7560.4	7826.4	8115.8
7.5°	3058.3	3218.9	3476.5	3906.5	4314.7	4818.3	5450.7	6156.7	6968.1	7347.9	7756.1
10°	2146.5	2347.2	2710.3	3063.3	3576.9	4055.4	4679.4	5459.1	6354.1	6802.5	7314.4
12.5°	1355.1	1534.2	2014.3	2410.8	3051.6	3607.0	4182.5	4888.6	5925.8	6385.9	6923.0
15°	774.6	925.2	1149.4	1658.0	2369.0	3103.5	3821.2	4641.0	5706.7	6273.8	6854.4
17.5°	577.2	617.3	717.7	1005.5	1652.9	2511.2	3488.2	4565.7	5855.6	6521.4	7183.9
20°	485.2	511.9	558.8	672.6	1054.0	1934.0	3163.7	4579.1	6337.4	7173.9	7803.0
22.5°	435.0	451.7	490.2	563.8	719.4	1408.7	2783.9	4657.7	6921.3	7975.3	8701.4
25°	381.4	403.2	436.7	500.2	598.9	977.0	2409.1	4833.4	7739.4	8992.5	9675.1
27.5°	339.6	359.7	393.2	451.7	525.3	746.2	1972.5	4983.9	8602.7	10016.4	10575.2
30°	297.8	317.9	351.3	398.2	465.1	604.0	1502.4	5072.6	9440.8	10784.3	11214.3
32.5°	262.7	279.4	311.2	353.0	408.2	511.9	1184.5	4980.6	10081.6	11481.9	11769.7
35°	227.5	247.6	274.4	312.9	361.4	436.7	985.4	4662.7	10632.0	12199.7	12303.4
37.5°	190.7	214.1	242.6	277.7	316.2	401.5	791.3	4311.4	11220.9	13094.7	12924.1
40°	160.6	182.4	209.1	247.6	282.7	368.1	609.0	3936.6	11856.7	13934.6	13601.6
42.5°	130.5	153.9	185.7	220.8	279.4	321.2	471.8	3548.5	12427.2	14665.7	14214.0
45°	103.7	123.8	157.3	202.4	277.7	276.0	364.7	3165.4	12857.2	15187.7	14670.7
47.5°	82.0	98.7	132.2	197.4	256.0	234.2	292.8	2927.8	13308.9	15657.8	15020.4
50°	65.2	82.0	113.8	205.8	224.2	200.8	245.9	2966.3	13745.5	15897.0	15164.2
52.5°	55.2	71.9	98.7	162.3	172.3	175.7	215.8	3143.6	14309.3	16153.0	15450.3
55°	48.5	63.6	83.7	113.8	133.8	157.3	197.4	3272.4	15063.9	16701.8	16081.1
57.5°	38.5	55.2	75.3	97.0	110.4	137.2	182.4	3282.5	15746.5	17406.1	16919.2
59°	35.1	50.2	70.3	92.0	98.7	123.8	172.3	3197.1	15771.6	17511.5	17304.0
60°	31.8	48.5	66.9	85.3	93.7	117.1	164.0	3098.4	15544.0	17344.2	17463.0
62.5°	26.8	41.8	58.6	68.6	80.3	97.0	142.2	2740.4	14441.5	16586.3	17168.5
65°	23.4	36.8	50.2	56.9	66.9	83.7	125.5	2193.3	13223.5	15559.1	16325.3
67.5°	21.7	33.5	43.5	48.5	58.6	77.0	112.1	1549.2	11645.9	14255.8	15058.8
70°	20.1	31.8	38.5	45.2	51.9	65.2	95.4	903.4	8970.7	11970.5	12818.7
72.5°	20.1	30.1	33.5	38.5	45.2	58.6	88.7	488.5	6133.3	9131.3	10227.2
75°	20.1	28.4	30.1	33.5	40.2	53.5	78.6	256.0	3965.1	6344.1	7829.7
77.5°	20.1	26.8	30.1	31.8	38.5	46.8	68.6	160.6	2641.7	4443.5	5291.8
80°	21.7	26.8	28.4	31.8	36.8	43.5	56.9	107.1	1552.6	2673.5	3220.6
82.5°	23.4	26.8	30.1	33.5	38.5	41.8	50.2	66.9	716.1	1768.4	2000.9
85°	25.1	28.4	31.8	35.1	40.2	41.8	46.8	48.5	117.1	798.0	1079.1
87.5°	26.8	30.1	33.5	36.8	43.5	43.5	43.5	43.5	40.2	85.3	217.5
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-SA6C-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7274.3	7274.3	7274.3	7274.3	7274.3	7274.3	7274.3	7274.3	7274.3	7274.3
2.5°	8207.8	8396.9	8529.1	8562.5	8467.2	8423.7	8303.2	8115.8	8002.1	7997.0
5°	8649.5	9092.9	9400.7	9452.6	9268.5	8957.3	8587.6	8110.8	7831.4	7747.8
7.5°	8574.2	9350.5	9845.7	9917.7	9608.2	9014.2	8298.2	7530.3	7225.8	7096.9
10°	8264.7	9211.6	9919.3	10033.1	9619.9	8783.4	7873.2	7016.6	6638.5	6539.8
12.5°	8000.4	8957.3	9586.4	9743.7	9430.8	8596.0	7618.9	6687.1	6282.2	6190.2
15°	7884.9	8656.2	9041.0	9121.3	9069.4	8478.9	7592.2	6636.9	6173.4	6073.1
17.5°	8000.4	8400.2	8448.7	8530.7	8646.2	8467.2	7849.8	6909.6	6409.3	6285.5
20°	8303.2	8177.7	7977.0	8012.1	8276.4	8515.7	8308.2	7513.5	6904.6	6772.4
22.5°	8818.5	8122.5	7667.4	7637.3	7971.9	8678.0	8980.8	8331.6	7625.6	7495.1
25°	9450.9	8261.4	7553.7	7488.4	7853.2	8915.5	9711.9	9333.8	8562.5	8363.4
27.5°	10140.2	8549.1	7553.7	7490.1	7843.1	9126.3	10337.6	10220.5	9532.9	9315.4
30°	10518.3	8786.7	7662.4	7590.5	7966.9	9248.5	10672.2	11008.5	10262.3	9992.9
32.5°	10856.2	9116.3	7874.9	7739.4	8226.2	9429.1	10971.7	11677.7	10842.8	10662.2
35°	11167.4	9469.3	8167.7	8010.4	8567.5	9676.7	11302.9	12380.3	11650.9	11378.2
37.5°	11510.4	9879.2	8624.4	8490.6	9138.0	10158.6	11696.1	13303.9	12445.6	12102.6
40°	11883.5	10354.3	9375.6	9318.7	10044.8	10704.0	12193.0	14289.3	13352.4	12962.6
42.5°	12263.2	10901.4	10295.8	10389.5	11072.0	11468.5	12703.2	15047.1	14095.2	13665.2
45°	12607.9	11600.7	11492.0	11955.4	12269.9	12214.7	13081.3	15580.8	14742.6	14331.1
47.5°	13042.9	12619.6	12939.1	13653.5	13661.9	13026.1	13367.4	16017.5	15299.8	14888.2
50°	13529.7	13822.5	14807.9	15535.7	15339.9	13824.2	13702.0	16534.5	15875.3	15545.7
52.5°	14093.5	15169.3	16534.5	17342.5	16885.8	14694.1	14259.1	17093.2	16788.8	16472.6
55°	14749.3	16087.8	18256.0	18900.1	18440.0	15774.9	15105.7	17851.1	17821.0	17605.2
57.5°	15490.5	17058.1	19253.1	20124.8	19714.9	17043.1	16288.5	18565.5	18451.7	18331.3
59°	16076.0	17556.7	19693.1	20596.5	20348.9	17931.4	17083.2	19010.5	18597.3	18416.6
60°	16430.7	17894.6	19855.4	20660.1	20603.2	18460.1	17586.8	19228.0	18595.6	18344.7
62.5°	17483.1	18485.2	19793.5	20377.4	20599.9	19473.9	19064.1	19467.3	18251.0	17882.9
65°	17857.8	18289.4	18767.9	18696.0	18886.7	19422.1	20007.6	19204.6	17514.8	16991.2
67.5°	17128.4	16143.0	16311.9	15831.8	15738.1	17267.2	19624.5	17919.7	16074.4	15433.6
70°	14438.2	12367.0	12281.6	12502.5	11896.8	13979.8	17621.9	15445.3	13697.0	12970.9
72.5°	11364.8	8739.9	8020.5	8833.5	8815.1	10665.5	14638.9	10960.0	9253.5	9191.6
75°	8937.3	6084.8	5340.3	5472.4	5726.7	7721.0	11659.3	6959.8	5698.3	5193.1
77.5°	5999.4	4311.4	4021.9	3859.7	4134.0	4957.2	7376.3	3774.3	3195.5	3026.5
80°	3458.1	3131.9	3556.8	3228.9	3376.2	3123.5	3668.9	1731.6	1437.1	1555.9
82.5°	2250.2	1783.4	1900.6	1412.0	1930.7	1947.4	1177.8	511.9	433.3	460.1
85°	1407.0	836.5	470.1	334.6	665.9	1224.7	368.1	31.8	36.8	31.8
87.5°	364.7	138.9	58.6	87.0	107.1	95.4	85.3	5.0	1.7	3.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)