

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: P456381

Luminaire Tested: **GALN-SA7C-827-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456381
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-SA7C-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 25852 lumens
Efficiency: N/A
Efficacy: 68.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

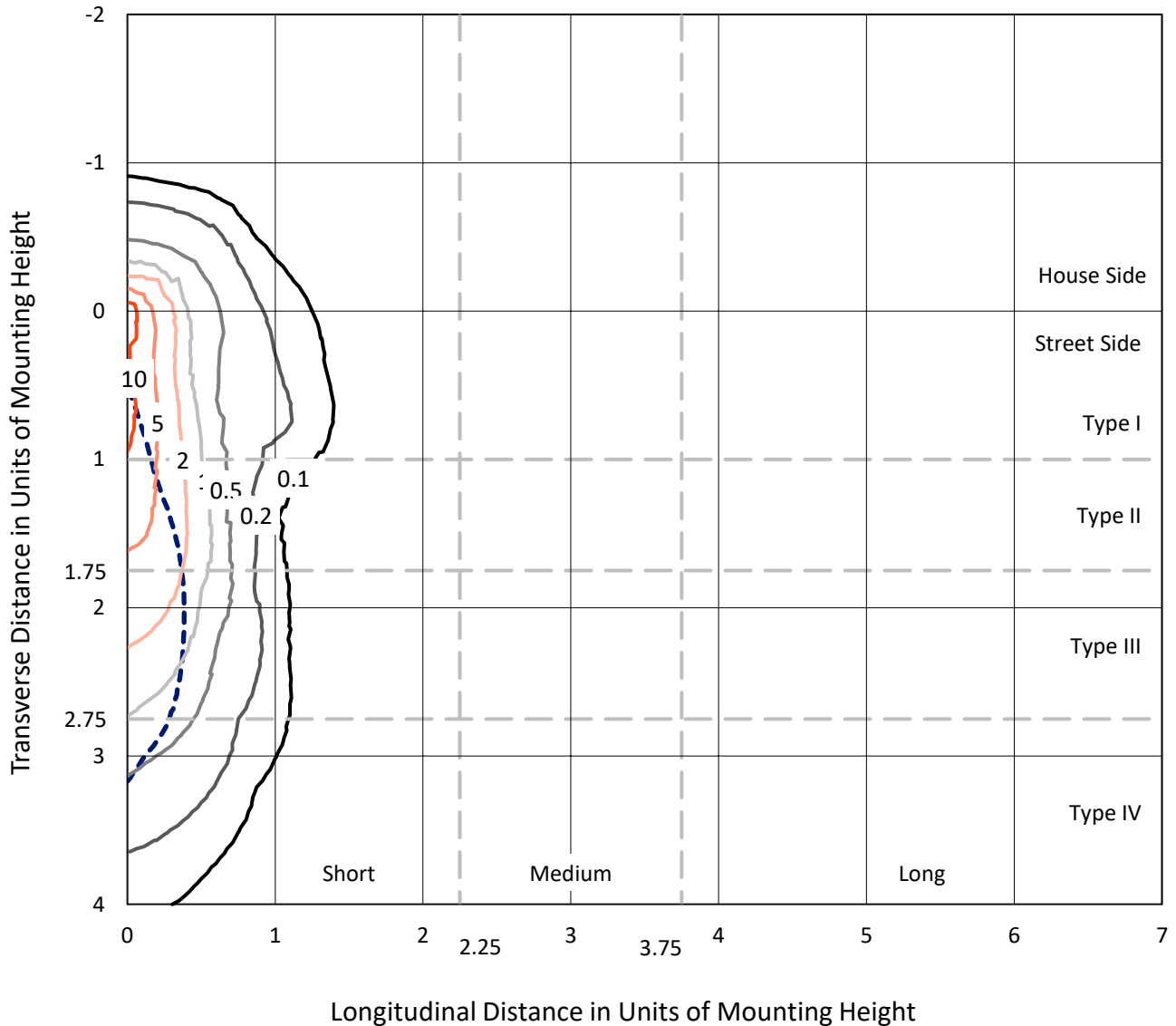
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

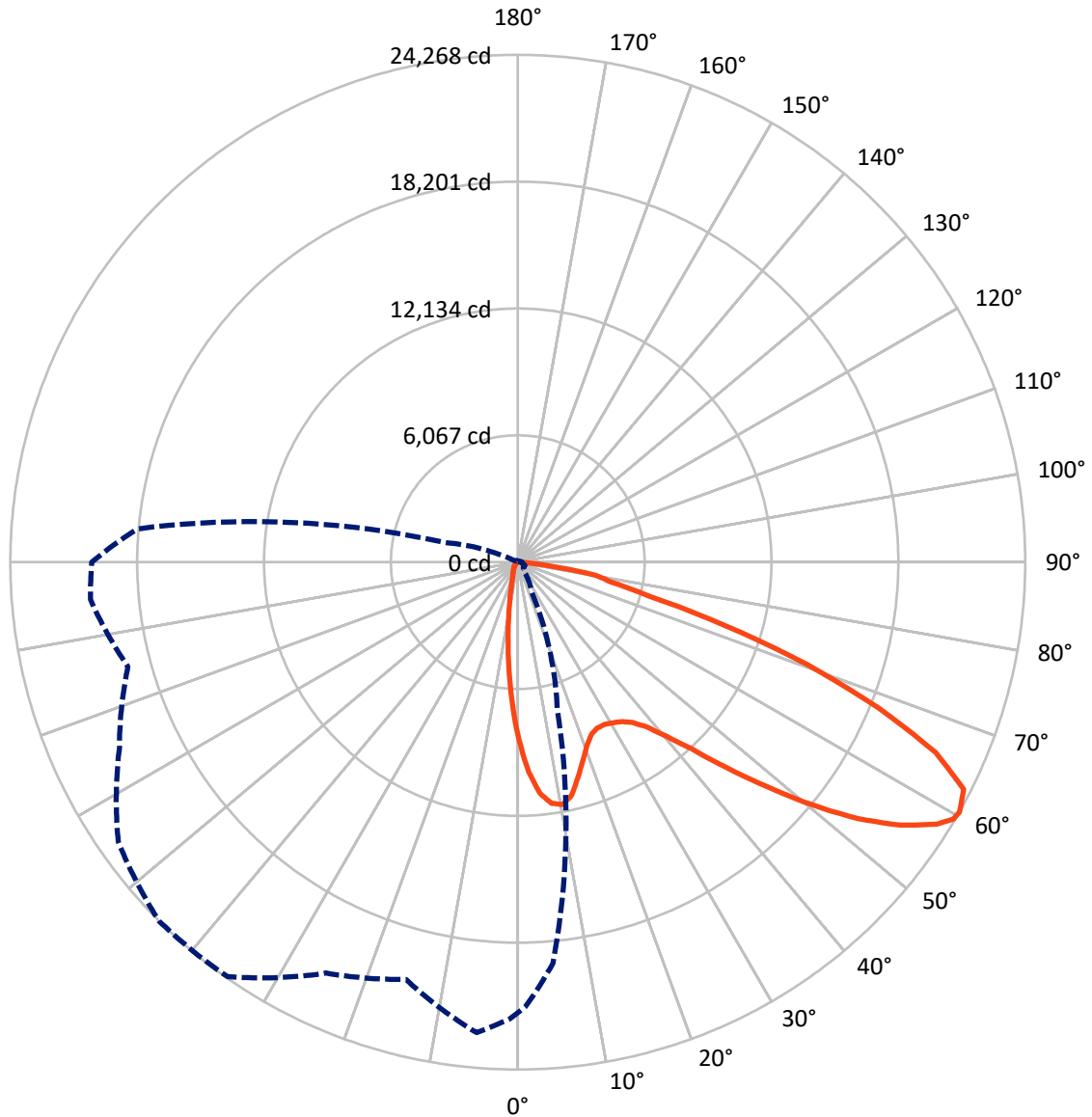
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
 Type 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	3188.6	0.0	3188.6
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	22663.4	0.0	22663.4
	% Fixture	87.7	0.0	87.7
Total	Lumens	25852.0	0.0	25852.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	635.5	2.5
10°-20°	1262.1	4.9
20°-30°	1850.6	7.2
30°-40°	2752.2	10.6
40°-50°	4005.3	15.5
50°-60°	5775.9	22.3
60°-70°	6352.9	24.6
70°-80°	2845.6	11.0
80°-90°	371.8	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°	25852.0	100.0
0°-180°	25852.0	100.0

Coefficient of Utilization



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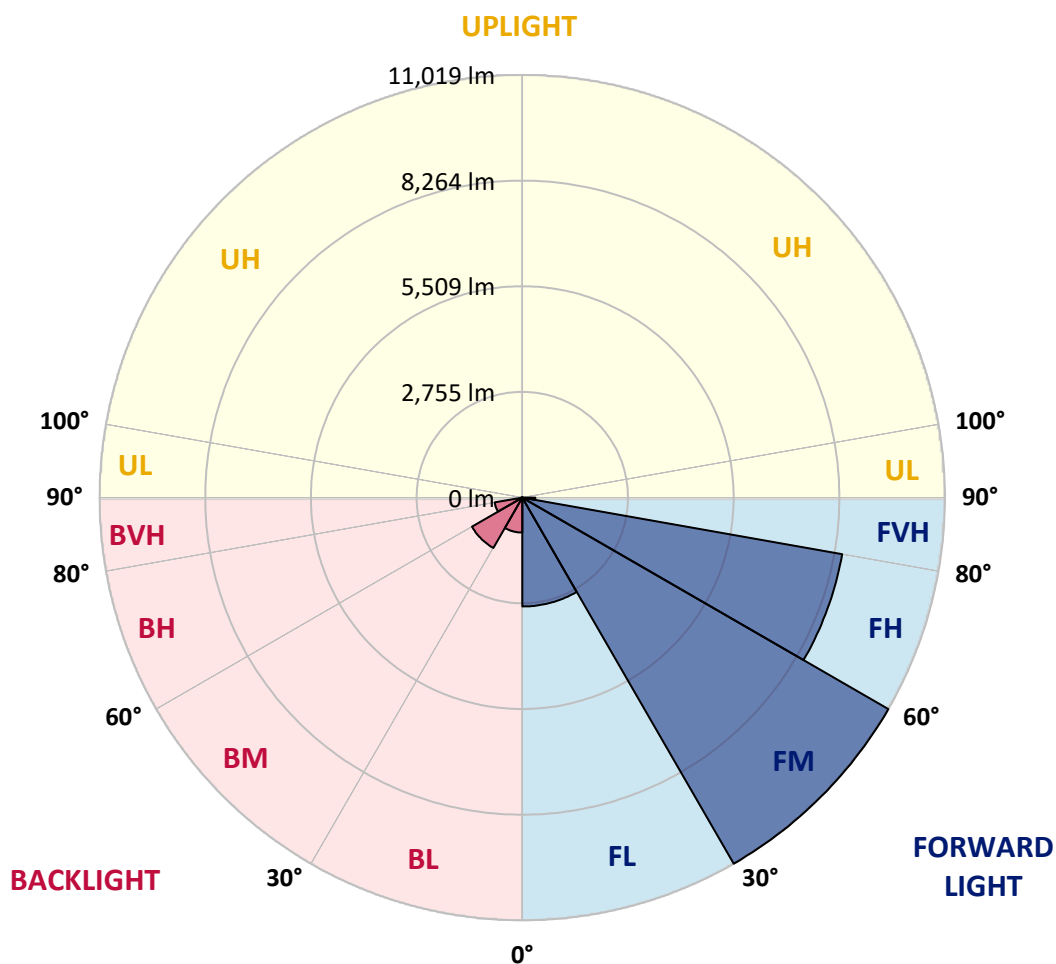
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2837.2	11.0			
FM	(30°-60°)	11018.9	42.6			
FH	(60°-80°)	8467.3	32.8			G4/12000
FVH	(80°-90°)	340.0	1.3			G3/500
BL	(0°-30°)	911.1	3.5	B2/1000		
BM	(30°-60°)	1514.5	5.9	B2/2500		
BH	(60°-80°)	731.2	2.8	B2/1000		G2/1000
BVH	(80°-90°)	31.8	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8544.5	8544.5	8544.5	8544.5	8544.5	8544.5	8544.5	8544.5	8544.5	8544.5	8544.5
2.5°	9393.4	9352.1	9257.8	8970.9	8721.3	8395.1	8065.0	7805.6	7646.4	7353.6	7219.9
5°	9100.6	9120.2	8847.1	8257.5	7601.2	7153.1	6663.8	6274.7	5846.3	5575.1	5290.2
7.5°	8336.2	8296.8	8000.1	7178.7	6380.8	5732.3	5113.3	4610.2	4293.8	4040.3	3828.1
10°	7681.8	7652.3	7273.0	6215.8	5359.0	4873.6	4455.0	4014.8	3674.8	3303.4	3006.7
12.5°	7271.0	7204.2	6768.0	5663.6	4965.9	4513.9	4058.0	3600.1	3130.5	2755.1	2395.5
15°	7133.5	7037.2	6551.8	5472.9	4714.4	4140.6	3568.7	3042.0	2501.6	2087.0	1815.8
17.5°	7383.1	7223.9	6707.0	5439.5	4413.7	3653.2	2949.7	2263.8	1701.8	1385.4	1218.4
20°	7954.9	7772.2	7100.1	5406.1	4079.6	3106.9	2242.2	1599.6	1177.1	1004.2	911.8
22.5°	8803.9	8552.3	7681.8	5459.2	3771.1	2574.3	1619.3	1130.0	935.4	827.3	762.5
25°	9823.8	9613.5	8418.7	5647.8	3527.4	2155.8	1251.8	923.6	788.0	721.2	672.1
27.5°	10941.9	10605.9	9371.8	5873.8	3305.4	1831.5	1098.5	825.4	701.6	640.6	615.1
30°	11737.8	11476.5	10169.6	6031.0	3028.3	1587.8	1004.2	813.6	703.5	630.8	583.6
32.5°	12523.9	12189.8	10837.8	6103.7	2825.9	1418.8	868.6	709.4	617.1	579.7	532.6
35°	13365.0	13015.2	11504.0	6064.4	2674.6	1306.8	788.0	632.8	528.6	465.7	418.6
37.5°	14215.9	13846.4	12166.2	5923.0	2580.2	1261.6	725.1	601.3	499.1	434.3	383.2
40°	15226.0	14732.7	12787.2	5807.0	2482.0	1238.0	683.9	581.7	477.5	408.8	357.7
42.5°	16051.3	15581.6	13374.8	5746.1	2415.2	1183.0	683.9	566.0	463.8	387.1	334.1
45°	16833.4	16346.1	14009.5	5795.2	2387.7	1114.2	691.7	564.0	453.9	371.4	318.4
47.5°	17487.8	17065.3	14662.0	5979.9	2352.3	1039.6	650.5	591.5	448.1	357.7	302.6
50°	18260.1	17851.4	15524.7	6353.3	2289.4	964.9	599.4	636.7	446.1	345.9	288.9
52.5°	19348.8	18906.7	16715.5	6777.8	2189.2	850.9	552.2	630.8	438.2	326.2	275.1
55°	20679.2	20321.6	18095.1	7286.8	2051.6	723.2	477.5	560.1	414.6	292.8	251.5
57.5°	21532.1	21227.5	19128.7	7506.9	1841.3	591.5	420.5	469.7	379.3	261.4	224.0
59°	21632.3	21357.2	19344.9	7434.1	1703.8	540.4	393.0	402.9	369.4	243.7	208.3
60°	21547.8	21262.9	19258.4	7292.7	1576.0	505.0	369.4	357.7	371.4	233.9	196.5
62.5°	21005.4	20518.1	18419.3	6575.4	1377.6	463.8	328.2	292.8	328.2	210.3	174.9
65°	19958.0	19227.0	16758.8	5565.3	1299.0	440.2	279.1	245.6	249.6	184.7	151.3
67.5°	18128.5	17206.8	14548.0	4521.8	1265.6	442.2	235.8	220.1	192.6	157.2	133.6
70°	15235.8	14316.1	11673.0	3720.0	1249.8	442.2	200.4	188.7	161.1	131.7	115.9
72.5°	10796.5	9806.1	7874.3	2922.2	1126.0	440.2	171.0	171.0	131.7	110.0	94.3
75°	6099.8	6107.7	4950.2	2067.3	935.4	363.6	137.6	135.6	96.3	84.5	70.7
77.5°	3554.9	3492.1	3336.8	888.2	434.3	165.1	96.3	82.5	66.8	60.9	51.1
80°	1827.6	1503.3	1464.0	322.3	155.2	104.2	66.8	47.2	43.2	39.3	35.4
82.5°	540.4	542.4	483.4	129.7	86.5	68.8	33.4	25.5	23.6	21.6	21.6
85°	37.3	23.6	27.5	39.3	53.1	27.5	2.0	5.9	5.9	7.9	9.8
87.5°	3.9	2.0	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°	8544.5	8544.5	8544.5	8544.5	8544.5	8544.5	8544.5	8544.5	8544.5	8544.5	8544.5
2.5°	7072.6	7159.0	6997.9	7001.8	6868.2	6911.4	6754.2	6805.3	6712.9	6783.7	6992.0
5°	5321.6	5341.3	5211.6	5170.3	5190.0	5270.5	5302.0	5158.5	5219.4	5099.6	5091.7
7.5°	3749.5	3773.1	3698.4	3688.6	3830.1	3796.7	3857.6	3710.2	3570.7	3631.6	3519.6
10°	2912.3	2814.1	2660.8	2617.6	2590.1	2607.7	2607.7	2474.1	2454.5	2401.4	2482.0
12.5°	2299.2	2179.3	2033.9	1837.4	1788.3	1784.4	1711.6	1593.7	1556.4	1511.2	1578.0
15°	1670.4	1621.2	1499.4	1389.4	1277.3	1255.7	1137.8	1041.5	913.8	896.1	890.2
17.5°	1175.2	1102.4	1100.5	1037.6	972.7	929.5	819.5	709.4	660.3	654.4	654.4
20°	880.4	854.8	813.6	805.7	786.1	736.9	638.7	579.7	556.1	558.1	566.0
22.5°	740.9	723.2	685.8	668.1	660.3	617.1	544.3	505.0	493.3	493.3	495.2
25°	662.3	646.5	605.3	577.8	567.9	536.5	479.5	450.0	440.2	440.2	440.2
27.5°	603.3	583.6	540.4	516.8	499.1	463.8	428.4	398.9	389.1	389.1	391.1
30°	562.0	540.4	501.1	469.7	442.2	410.7	381.2	355.7	343.9	341.9	343.9
32.5°	507.0	487.4	448.1	428.4	397.0	359.6	336.0	312.5	300.7	302.6	300.7
35°	395.0	389.1	361.6	367.5	349.8	318.4	296.7	271.2	257.4	255.5	259.4
37.5°	359.6	336.0	304.6	306.6	300.7	288.9	253.5	226.0	216.2	216.2	218.1
40°	332.1	308.5	273.2	255.5	257.4	257.4	220.1	190.6	180.8	178.8	182.8
42.5°	308.5	284.9	245.6	216.2	208.3	218.1	186.7	157.2	147.4	143.5	147.4
45°	292.8	267.3	222.1	188.7	165.1	176.9	153.3	129.7	117.9	117.9	115.9
47.5°	277.1	253.5	204.4	163.1	137.6	131.7	125.8	104.2	92.4	90.4	92.4
50°	263.3	239.7	184.7	141.5	115.9	102.2	102.2	82.5	74.7	70.7	72.7
52.5°	249.6	224.0	167.0	125.8	100.2	82.5	72.7	66.8	60.9	59.0	60.9
55°	229.9	204.4	149.4	108.1	86.5	68.8	57.0	55.0	51.1	47.2	51.1
57.5°	206.3	182.8	131.7	92.4	68.8	53.1	47.2	45.2	41.3	39.3	39.3
59°	192.6	171.0	121.8	80.6	60.9	47.2	43.2	41.3	37.3	33.4	35.4
60°	184.7	167.0	115.9	74.7	55.0	43.2	39.3	37.3	33.4	31.4	33.4
62.5°	163.1	149.4	102.2	60.9	43.2	31.4	27.5	29.5	27.5	25.5	27.5
65°	143.5	131.7	86.5	47.2	33.4	21.6	19.7	25.5	23.6	21.6	23.6
67.5°	127.7	114.0	72.7	35.4	23.6	11.8	13.8	21.6	21.6	19.7	21.6
70°	110.0	98.3	59.0	25.5	11.8	5.9	9.8	15.7	19.7	17.7	19.7
72.5°	90.4	76.6	45.2	17.7	5.9	0.0	5.9	13.8	19.7	17.7	19.7
75°	70.7	57.0	33.4	9.8	0.0	0.0	2.0	11.8	19.7	17.7	19.7
77.5°	51.1	41.3	19.7	2.0	0.0	0.0	2.0	11.8	19.7	17.7	19.7
80°	33.4	29.5	7.9	0.0	0.0	0.0	2.0	11.8	19.7	19.7	21.6
82.5°	21.6	15.7	0.0	0.0	0.0	0.0	3.9	15.7	21.6	23.6	23.6
85°	9.8	0.0	0.0	0.0	0.0	0.0	7.9	19.7	25.5	25.5	25.5
87.5°	0.0	0.0	0.0	0.0	0.0	3.9	13.8	23.6	29.5	29.5	29.5
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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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	8544.5	8544.5	8544.5	8544.5	8544.5	8544.5	8544.5	8544.5	8544.5	8544.5	8544.5
2.5°	7027.4	7151.2	7326.1	7595.3	7813.4	8157.3	8420.7	8780.3	9143.8	9253.9	9424.8
5°	5172.3	5331.4	5728.4	6090.0	6317.9	7045.0	7504.9	8230.0	8880.5	9193.0	9532.9
7.5°	3592.3	3780.9	4083.6	4588.6	5068.1	5659.6	6402.4	7231.7	8184.8	8630.9	9110.4
10°	2521.3	2757.1	3183.5	3598.2	4201.5	4763.5	5496.5	6412.3	7463.6	7990.3	8591.6
12.5°	1591.8	1802.0	2366.0	2831.8	3584.4	4236.9	4912.9	5742.2	6960.5	7501.0	8131.8
15°	909.9	1086.7	1350.1	1947.5	2782.6	3645.3	4488.4	5451.3	6703.1	7369.3	8051.2
17.5°	678.0	725.1	843.0	1181.1	1941.6	2949.7	4097.3	5362.9	6878.0	7660.1	8438.3
20°	569.9	601.3	656.4	790.0	1238.0	2271.7	3716.1	5378.6	7444.0	8426.5	9165.4
22.5°	510.9	530.6	575.8	662.3	845.0	1654.7	3270.0	5471.0	8129.8	9367.9	10220.7
25°	448.1	473.6	512.9	587.6	703.5	1147.6	2829.8	5677.3	9090.8	10562.7	11364.4
27.5°	398.9	422.5	461.8	530.6	617.1	876.5	2316.9	5854.2	10104.8	11765.3	12421.7
30°	349.8	373.4	412.7	467.7	546.3	709.4	1764.7	5958.3	11089.3	12667.3	13172.4
32.5°	308.5	328.2	365.5	414.6	479.5	601.3	1391.3	5850.2	11842.0	13486.8	13824.8
35°	267.3	290.8	322.3	367.5	424.5	512.9	1157.5	5476.9	12488.5	14329.8	14451.7
37.5°	224.0	251.5	284.9	326.2	371.4	471.6	929.5	5064.2	13180.2	15381.2	15180.8
40°	188.7	214.2	245.6	290.8	332.1	432.3	715.3	4624.0	13927.0	16367.7	15976.6
42.5°	153.3	180.8	218.1	259.4	328.2	377.3	554.2	4168.1	14597.1	17226.5	16695.9
45°	121.8	145.4	184.7	237.8	326.2	324.2	428.4	3718.1	15102.1	17839.6	17232.4
47.5°	96.3	115.9	155.2	231.9	300.7	275.1	343.9	3439.0	15632.7	18391.8	17643.1
50°	76.6	96.3	133.6	241.7	263.3	235.8	288.9	3484.2	16145.6	18672.8	17812.1
52.5°	64.8	84.5	115.9	190.6	202.4	206.3	253.5	3692.5	16807.9	18973.5	18148.1
55°	57.0	74.7	98.3	133.6	157.2	184.7	231.9	3843.8	17694.2	19618.1	18889.0
57.5°	45.2	64.8	88.4	114.0	129.7	161.1	214.2	3855.6	18496.0	20445.4	19873.5
59°	41.3	59.0	82.5	108.1	115.9	145.4	202.4	3755.4	18525.4	20569.2	20325.5
60°	37.3	57.0	78.6	100.2	110.0	137.6	192.6	3639.5	18258.2	20372.7	20512.2
62.5°	31.4	49.1	68.8	80.6	94.3	114.0	167.0	3218.9	16963.1	19482.5	20166.3
65°	27.5	43.2	59.0	66.8	78.6	98.3	147.4	2576.3	15532.5	18275.9	19175.9
67.5°	25.5	39.3	51.1	57.0	68.8	90.4	131.7	1819.7	13679.4	16745.0	17688.3
70°	23.6	37.3	45.2	53.1	60.9	76.6	112.0	1061.2	10537.1	14060.6	15056.9
72.5°	23.6	35.4	39.3	45.2	53.1	68.8	104.2	573.8	7204.2	10725.8	12012.9
75°	23.6	33.4	35.4	39.3	47.2	62.9	92.4	300.7	4657.4	7451.8	9196.9
77.5°	23.6	31.4	35.4	37.3	45.2	55.0	80.6	188.7	3103.0	5219.4	6215.8
80°	25.5	31.4	33.4	37.3	43.2	51.1	66.8	125.8	1823.7	3140.3	3782.9
82.5°	27.5	31.4	35.4	39.3	45.2	49.1	59.0	78.6	841.1	2077.2	2350.3
85°	29.5	33.4	37.3	41.3	47.2	49.1	55.0	57.0	137.6	937.4	1267.5
87.5°	31.4	35.4	39.3	43.2	51.1	51.1	51.1	51.1	47.2	100.2	255.5
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-SA7C-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8544.5	8544.5	8544.5	8544.5	8544.5	8544.5	8544.5	8544.5	8544.5	8544.5
2.5°	9641.0	9863.1	10018.3	10057.6	9945.6	9894.5	9753.0	9532.9	9399.3	9393.4
5°	10159.8	10680.6	11042.2	11103.1	10886.9	10521.4	10087.1	9527.0	9198.8	9100.6
7.5°	10071.4	10983.2	11564.9	11649.4	11285.8	10588.2	9747.1	8845.1	8487.5	8336.2
10°	9707.8	10820.1	11651.4	11785.0	11299.6	10317.0	9248.0	8241.8	7797.7	7681.8
12.5°	9397.3	10521.4	11260.3	11445.0	11077.5	10096.9	8949.3	7854.7	7379.1	7271.0
15°	9261.7	10167.7	10619.6	10714.0	10653.1	9959.4	8917.8	7795.7	7251.4	7133.5
17.5°	9397.3	9867.0	9924.0	10020.3	10155.9	9945.6	9220.5	8116.1	7528.5	7383.1
20°	9753.0	9605.6	9369.8	9411.1	9721.6	10002.6	9758.9	8825.5	8110.2	7954.9
22.5°	10358.3	9540.8	9006.3	8970.9	9363.9	10193.2	10548.9	9786.4	8957.1	8803.9
25°	11101.1	9703.9	8872.6	8796.0	9224.4	10472.3	11407.7	10963.6	10057.6	9823.8
27.5°	11910.8	10041.9	8872.6	8798.0	9212.6	10719.9	12142.6	12005.1	11197.4	10941.9
30°	12354.9	10320.9	9000.4	8915.9	9358.0	10863.3	12535.7	12930.7	12054.2	11737.8
32.5°	12751.8	10708.1	9249.9	9090.8	9662.6	11075.6	12887.4	13716.7	12736.1	12523.9
35°	13117.4	11122.7	9593.8	9409.1	10063.5	11366.4	13276.5	14542.1	13685.3	13365.0
37.5°	13520.2	11604.2	10130.3	9973.1	10733.6	11932.4	13738.3	15626.8	14618.7	14215.9
40°	13958.4	12162.3	11012.7	10945.9	11798.7	12573.0	14322.0	16784.3	15683.8	15226.0
42.5°	14404.5	12804.9	12093.5	12203.6	13005.3	13471.1	14921.4	17674.5	16556.4	16051.3
45°	14809.3	13626.3	13498.6	14042.9	14412.4	14347.5	15365.5	18301.4	17316.9	16833.4
47.5°	15320.3	14823.1	15198.4	16037.6	16047.4	15300.6	15701.5	18814.3	17971.3	17487.8
50°	15892.1	16236.0	17393.5	18248.3	18018.4	16238.0	16094.5	19421.5	18647.3	18260.1
52.5°	16554.4	17818.0	19421.5	20370.7	19834.2	17259.9	16748.9	20077.9	19720.2	19348.8
55°	17324.7	18896.8	21443.7	22200.3	21659.8	18529.4	17743.3	20968.1	20932.7	20679.2
57.5°	18195.3	20036.6	22614.9	23638.7	23157.3	20018.9	19132.7	21807.2	21673.6	21532.1
59°	18883.1	20622.2	23131.7	24192.9	23902.1	21062.4	20066.1	22330.0	21844.6	21632.3
60°	19299.7	21019.2	23322.4	24267.6	24200.8	21683.4	20657.6	22585.4	21842.6	21547.8
62.5°	20535.8	21712.9	23249.6	23935.5	24196.8	22874.3	22392.8	22866.4	21437.8	21005.4
65°	20976.0	21483.0	22045.0	21960.5	22184.5	22813.4	23501.2	22557.9	20573.1	19958.0
67.5°	20119.2	18961.7	19160.2	18596.2	18486.1	20282.3	23051.2	21048.7	18881.1	18128.5
70°	16959.2	14526.4	14426.1	14685.5	13974.2	16420.8	20698.9	18142.2	16088.7	15235.8
72.5°	13349.2	10265.9	9420.9	10376.0	10354.4	12527.8	17195.0	12873.7	10869.2	10796.5
75°	10497.8	7147.2	6272.7	6428.0	6726.7	9069.1	13695.1	8175.0	6693.3	6099.8
77.5°	7047.0	5064.2	4724.2	4533.6	4855.9	5822.7	8664.3	4433.4	3753.4	3554.9
80°	4062.0	3678.8	4177.9	3792.7	3965.7	3668.9	4309.6	2033.9	1688.1	1827.6
82.5°	2643.1	2094.8	2232.4	1658.6	2267.8	2287.4	1383.5	601.3	509.0	540.4
85°	1652.7	982.6	552.2	393.0	782.1	1438.5	432.3	37.3	43.2	37.3
87.5°	428.4	163.1	68.8	102.2	125.8	112.0	100.2	5.9	2.0	3.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)