

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: P452525

Luminaire Tested: **GALN-SA3C-727-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452525
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-727-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15129 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

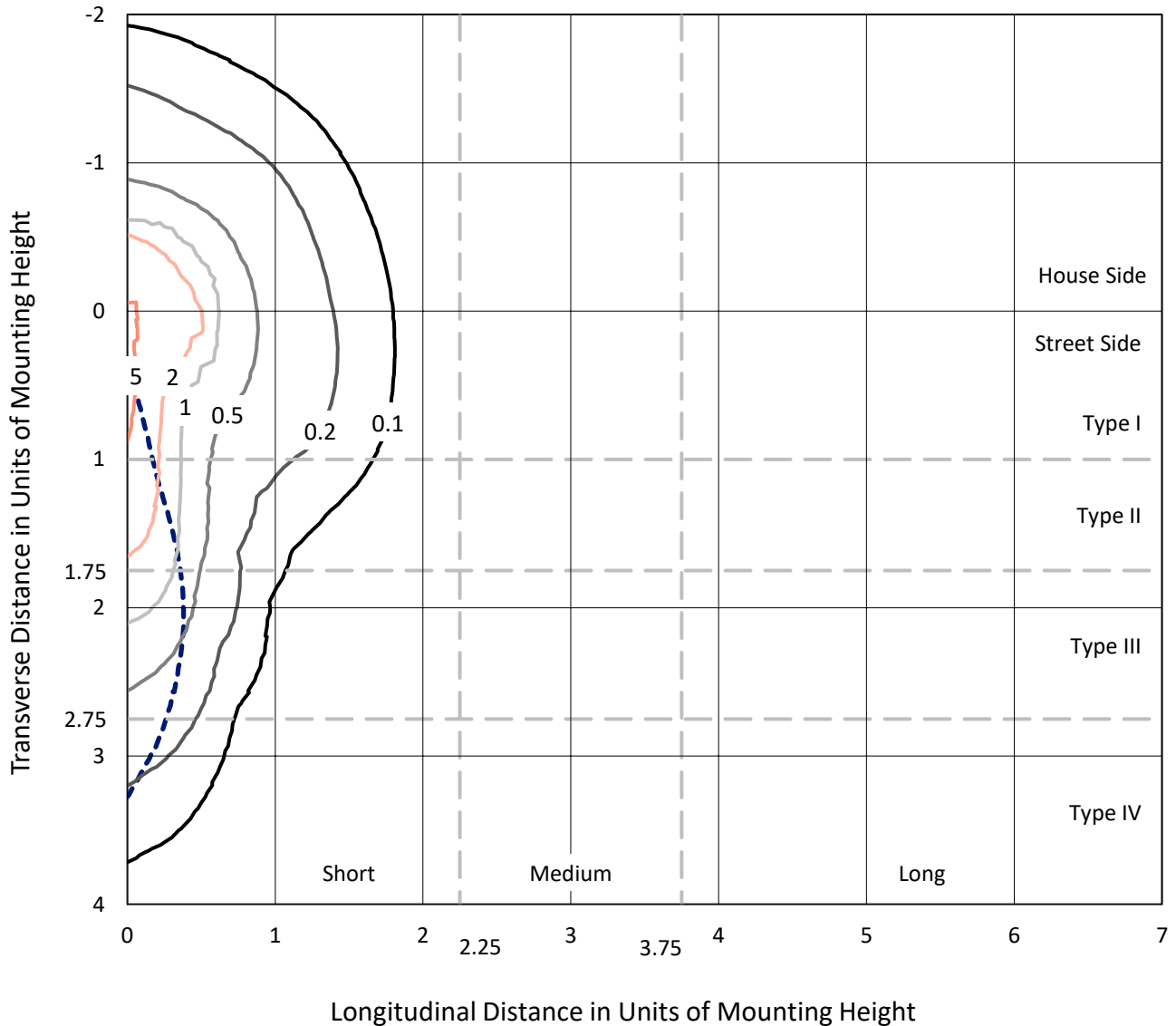
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

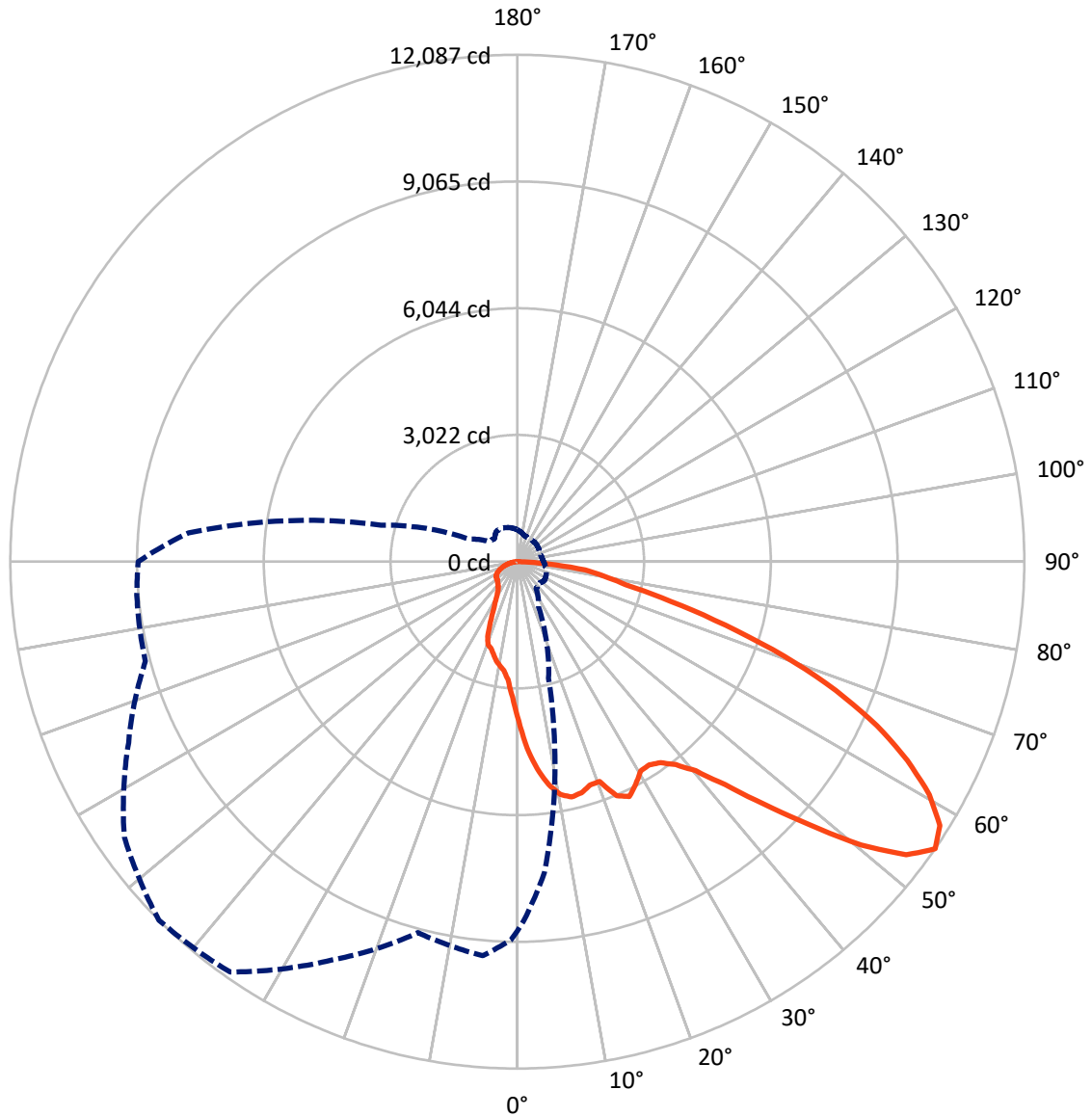
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3309.4	0.0	3309.4
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	11819.6	0.0	11819.6
	% Fixture	78.1	0.0	78.1
Total	Lumens	15129.0	0.0	15129.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.8	2.1
10°-20°	853.7	5.6
20°-30°	1474.8	9.7
30°-40°	1714.0	11.3
40°-50°	2391.4	15.8
50°-60°	3244.8	21.4
60°-70°	3087.0	20.4
70°-80°	1667.7	11.0
80°-90°	373.8	2.5
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°	15129.0	100.0
0°-180°	15129.0	100.0

Coefficient of Utilization



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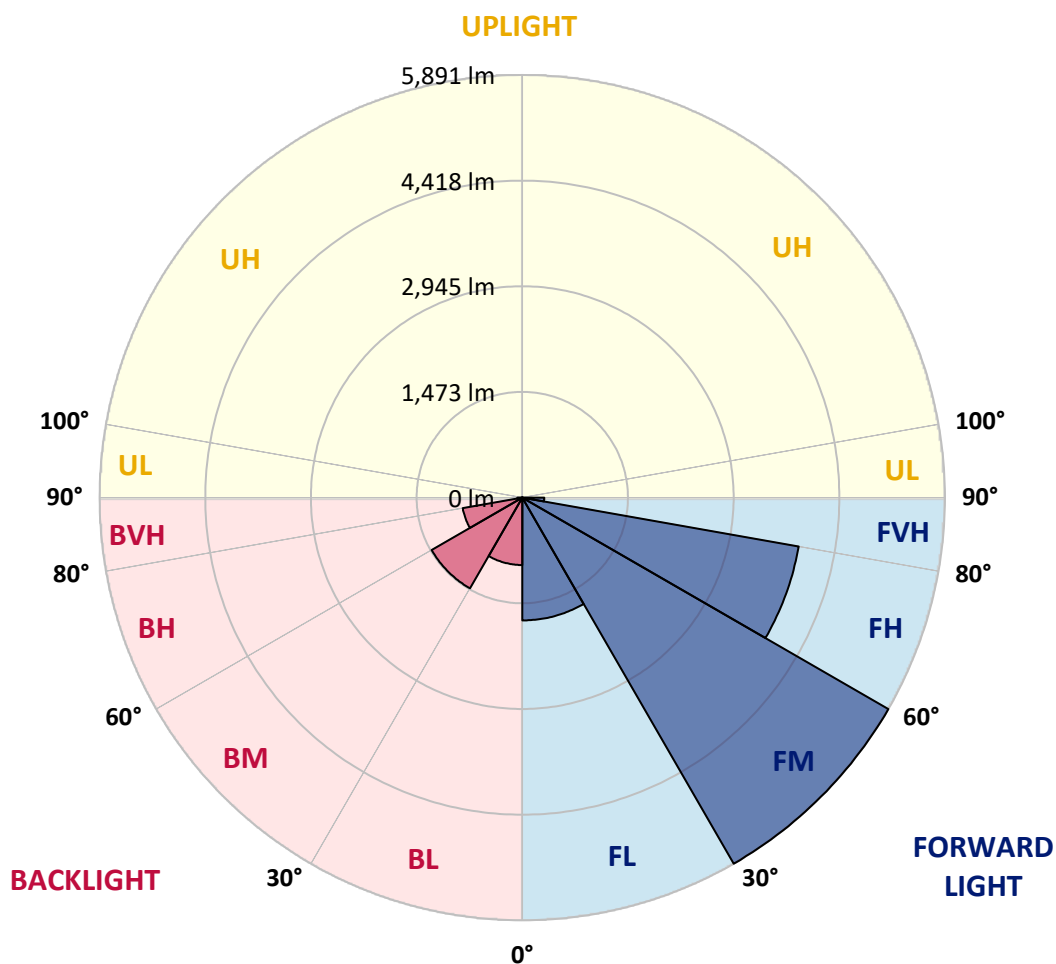
CATALOG NUMBER: GALN-SA3C-727-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1711.1	11.3			
FM	(30°-60°)	5890.9	38.9			
FH	(60°-80°)	3912.1	25.9			G2/5000
FVH	(80°-90°)	305.5	2.0			G3/500
BL	(0°-30°)	939.2	6.2	B2/1000		
BM	(30°-60°)	1459.2	9.6	B2/2500		
BH	(60°-80°)	842.7	5.6	B2/1000		G2/1000
BVH	(80°-90°)	68.3	0.5			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°	3796.8	3796.8	3796.8	3796.8	3796.8	3796.8	3796.8	3796.8	3796.8	3796.8	3796.8
2.5°	4218.0	4202.0	4157.1	4039.3	3920.6	3799.8	3707.0	3591.2	3470.4	3405.5	3322.7
5°	4275.9	4257.9	4152.1	3886.6	3646.1	3393.6	3191.9	3015.3	2943.4	2837.6	2752.8
7.5°	4140.1	4132.2	3973.5	3592.2	3262.8	2932.4	2703.9	2562.1	2433.4	2385.5	2395.4
10°	4016.4	3984.4	3785.8	3287.8	2903.5	2635.0	2471.3	2332.6	2241.7	2217.8	2222.8
12.5°	3913.6	3870.6	3636.1	3083.1	2746.8	2532.2	2323.6	2178.9	2096.0	2119.0	2196.8
15°	3892.6	3834.7	3573.2	3013.3	2660.9	2384.5	2155.9	1989.2	1927.3	1977.2	2102.0
17.5°	4028.3	3955.5	3681.0	3036.2	2579.1	2233.8	1953.3	1762.7	1710.8	1790.6	1953.3
20°	4464.5	4356.7	4017.4	3169.0	2571.1	2158.9	1835.5	1643.9	1665.8	1817.5	1987.2
22.5°	5271.0	5109.3	4606.3	3362.6	2613.0	2139.9	1811.6	1711.7	1832.5	1961.3	2073.1
25°	5430.7	5303.9	4712.0	3406.5	2604.1	2127.0	1879.4	1929.3	2064.1	2128.0	2089.0
27.5°	5520.5	5375.8	4705.1	3188.9	2328.6	1929.3	1796.6	1879.4	1913.4	1851.5	1745.7
30°	5730.1	5579.4	4823.8	2960.4	1917.4	1431.3	1254.6	1220.7	1243.6	1255.6	1217.7
32.5°	6018.6	5869.9	5047.4	2810.7	1657.9	1183.8	1010.1	962.2	951.2	938.2	923.2
35°	6391.9	6163.3	5267.0	2714.8	1551.1	1094.9	935.2	898.3	883.3	865.4	849.4
37.5°	6771.1	6531.6	5544.5	2614.0	1480.2	1033.0	885.3	868.4	842.4	823.4	800.5
40°	7174.4	6905.9	5797.0	2526.2	1411.3	993.1	849.4	847.4	813.5	791.5	764.5
42.5°	7523.7	7247.2	6022.6	2472.3	1358.4	951.2	827.4	833.4	798.5	765.5	730.6
45°	7801.2	7529.7	6231.2	2472.3	1315.5	909.3	823.4	819.4	784.5	743.6	703.7
47.5°	8044.7	7764.3	6434.8	2535.2	1288.6	874.3	801.5	808.5	772.5	720.6	681.7
50°	8233.4	7985.8	6709.3	2633.0	1261.6	846.4	773.5	811.5	762.6	708.7	663.7
52.5°	8473.9	8252.3	7039.6	2766.7	1238.6	815.5	748.6	811.5	761.6	709.7	660.7
55°	8807.3	8573.7	7437.9	2877.5	1201.7	786.5	726.6	788.5	758.6	704.7	652.8
57.5°	9040.8	8866.2	7719.3	2951.4	1148.8	749.6	706.7	766.5	745.6	685.7	628.8
58°	9051.8	8881.1	7760.3	2968.4	1135.8	742.6	701.7	756.6	739.6	677.7	620.8
60°	8926.0	8779.3	7768.2	2944.4	1062.0	707.7	675.7	715.6	707.7	630.8	577.9
62.5°	8468.9	8312.2	7445.9	2749.8	964.2	664.7	635.8	660.7	642.8	564.9	516.0
65°	7819.1	7530.7	6783.1	2444.4	894.3	618.8	581.9	583.9	564.9	509.0	466.1
67.5°	6953.8	6631.4	5743.1	2060.1	841.4	567.9	518.0	513.0	490.1	454.1	419.2
70°	5888.8	5668.2	4667.1	1675.8	782.5	512.0	446.2	443.2	429.2	402.2	371.3
72.5°	4772.9	4492.5	3768.8	1341.5	710.7	458.1	379.3	385.3	367.3	348.3	320.4
75°	3522.3	3338.7	2913.5	1076.0	613.8	399.2	316.4	318.4	310.4	290.4	268.5
77.5°	2319.6	2264.7	2084.0	706.7	472.1	317.4	258.5	260.5	254.5	236.6	213.6
80°	1561.0	1524.1	1412.3	455.1	315.4	229.6	199.6	201.6	200.6	181.7	150.7
82.5°	962.2	946.2	910.3	307.4	218.6	164.7	131.7	137.7	148.7	127.8	102.8
85°	454.1	455.1	550.0	167.7	128.8	105.8	71.9	76.9	76.9	76.9	57.9
87.5°	58.9	61.9	75.9	70.9	46.9	39.9	26.0	22.0	19.0	25.0	18.0
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°	3796.8	3796.8	3796.8	3796.8	3796.8	3796.8	3796.8	3796.8	3796.8	3796.8	3796.8
2.5°	3293.7	3273.8	3230.9	3220.9	3214.9	3231.9	3186.9	3198.9	3179.0	3234.9	3225.9
5°	2757.8	2759.8	2794.7	2817.6	2825.6	2817.6	2787.7	2735.8	2695.9	2679.9	2683.9
7.5°	2376.5	2411.4	2471.3	2538.2	2599.1	2617.0	2600.1	2501.2	2393.5	2325.6	2303.6
10°	2249.7	2296.6	2365.5	2418.4	2472.3	2515.2	2524.2	2447.4	2319.6	2158.9	2096.0
12.5°	2256.7	2320.6	2386.5	2403.4	2398.4	2415.4	2407.4	2394.5	2310.6	2106.0	2001.2
15°	2190.8	2266.7	2312.6	2303.6	2287.7	2272.7	2251.7	2218.8	2188.8	2045.1	1929.3
17.5°	2039.1	2117.0	2154.9	2157.9	2157.9	2153.9	2103.0	2091.0	2087.0	2017.2	1946.3
20°	2067.1	2110.0	2093.0	2065.1	2073.1	2100.0	2070.1	2064.1	2087.0	2118.0	2105.0
22.5°	2083.0	2068.1	1940.3	1816.5	1788.6	1872.4	1889.4	1956.3	2049.1	2160.9	2233.8
25°	1984.2	1863.5	1634.9	1495.2	1416.3	1494.2	1596.0	1719.7	1858.5	2002.2	2087.0
27.5°	1658.8	1567.0	1403.3	1277.6	1208.7	1220.7	1307.5	1420.3	1549.1	1645.9	1707.8
30°	1249.6	1208.7	1123.9	1080.9	1039.0	1029.0	1066.0	1108.9	1165.8	1177.8	1193.7
32.5°	920.3	914.3	919.3	905.3	897.3	896.3	885.3	895.3	901.3	908.3	894.3
35°	832.4	824.4	810.5	806.5	801.5	803.5	798.5	793.5	797.5	803.5	807.5
37.5°	787.5	775.5	755.6	748.6	748.6	751.6	743.6	741.6	748.6	767.5	777.5
40°	752.6	738.6	715.6	706.7	712.6	720.6	709.7	705.7	722.6	742.6	758.6
42.5°	719.6	708.7	686.7	676.7	681.7	696.7	680.7	677.7	699.7	721.6	740.6
45°	691.7	680.7	660.7	655.8	657.8	671.7	660.7	660.7	681.7	705.7	722.6
47.5°	669.7	655.8	642.8	638.8	640.8	648.8	646.8	646.8	666.7	691.7	708.7
50°	647.8	635.8	618.8	620.8	625.8	636.8	635.8	638.8	658.7	689.7	707.7
52.5°	637.8	619.8	600.9	602.9	617.8	630.8	626.8	629.8	652.8	710.7	736.6
55°	626.8	602.9	580.9	583.9	600.9	619.8	614.8	618.8	645.8	724.6	760.6
57.5°	605.8	577.9	553.9	555.9	580.9	600.9	592.9	597.9	629.8	709.7	747.6
58°	596.9	572.9	550.0	551.0	574.9	596.9	587.9	591.9	624.8	705.7	741.6
60°	558.9	545.0	525.0	526.0	549.0	567.9	562.9	566.9	598.9	676.7	703.7
62.5°	507.0	499.1	494.1	494.1	508.0	526.0	531.0	536.0	564.9	611.8	635.8
65°	451.1	451.1	452.1	452.1	461.1	484.1	487.1	500.1	527.0	550.0	567.9
67.5°	413.2	411.2	413.2	408.2	412.2	426.2	441.2	453.1	481.1	497.1	503.0
70°	364.3	363.3	364.3	357.3	362.3	374.3	384.3	404.2	433.2	445.2	448.1
72.5°	316.4	316.4	318.4	313.4	313.4	326.4	333.4	355.3	382.3	389.3	390.3
75°	266.5	269.5	269.5	262.5	264.5	272.5	281.5	299.4	324.4	329.4	329.4
77.5°	211.6	222.6	222.6	215.6	218.6	219.6	231.6	240.5	259.5	261.5	253.5
80°	153.7	164.7	173.7	167.7	172.7	166.7	173.7	179.7	198.6	189.6	176.7
82.5°	109.8	117.8	124.8	125.8	120.8	109.8	118.8	119.8	128.8	116.8	109.8
85°	60.9	67.9	76.9	72.9	64.9	57.9	60.9	62.9	61.9	58.9	54.9
87.5°	16.0	17.0	19.0	14.0	13.0	11.0	15.0	15.0	17.0	18.0	17.0
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°	3796.8	3796.8	3796.8	3796.8	3796.8	3796.8	3796.8	3796.8	3796.8	3796.8	3796.8
2.5°	3232.9	3276.8	3371.6	3443.5	3531.3	3638.1	3763.9	3890.6	4027.4	4070.3	4130.2
5°	2674.9	2784.7	2830.6	2961.4	3091.1	3285.8	3493.4	3733.9	3997.4	4124.2	4245.9
7.5°	2285.7	2344.5	2392.5	2488.3	2644.0	2880.5	3141.0	3441.5	3814.8	3999.4	4178.1
10°	2076.1	2082.0	2140.9	2259.7	2395.4	2604.1	2850.6	3186.9	3603.2	3827.7	4037.3
12.5°	1937.3	1911.4	1975.2	2099.0	2252.7	2445.4	2671.9	2992.3	3450.4	3681.0	3934.5
15°	1815.6	1774.6	1822.5	1949.3	2101.0	2327.6	2571.1	2910.5	3390.6	3659.0	3940.5
17.5°	1818.5	1705.8	1722.7	1829.5	1980.2	2210.8	2506.2	2907.5	3481.4	3790.8	4124.2
20°	2043.1	1862.5	1785.6	1805.6	1951.3	2202.8	2536.2	3047.2	3779.8	4231.0	4587.3
22.5°	2263.7	2154.9	2031.1	1990.2	2070.1	2333.6	2726.8	3377.6	4428.6	5108.3	5752.1
25°	2186.8	2279.7	2248.7	2190.8	2208.8	2427.4	2856.6	3649.1	4932.6	5698.2	6303.0
27.5°	1749.7	1918.4	1952.3	1951.3	1958.3	2137.9	2569.1	3466.4	4995.5	5811.0	6388.9
30°	1229.7	1244.6	1262.6	1297.5	1329.5	1490.2	2010.2	3043.2	4967.6	5861.9	6440.8
32.5°	887.3	907.3	932.2	980.1	1056.0	1260.6	1758.7	2908.5	5115.3	6072.5	6592.5
35°	811.5	834.4	858.4	913.3	985.1	1174.8	1658.8	2852.6	5357.8	6413.8	6865.0
37.5°	787.5	813.5	834.4	874.3	932.2	1112.9	1568.0	2814.7	5606.4	6775.1	7230.3
40°	770.5	800.5	817.4	849.4	889.3	1056.0	1487.2	2784.7	5846.9	7105.5	7523.7
42.5°	755.6	786.5	808.5	831.4	864.4	1005.1	1415.3	2754.8	6055.5	7425.9	7816.2
45°	737.6	776.5	804.5	822.4	851.4	962.2	1360.4	2730.8	6293.0	7710.4	8111.6
47.5°	722.6	765.5	800.5	821.4	832.4	932.2	1316.5	2763.8	6578.5	8007.8	8386.1
50°	723.6	764.5	808.5	841.4	812.5	907.3	1289.6	2894.5	6949.8	8361.1	8602.7
52.5°	755.6	805.5	840.4	848.4	784.5	877.3	1275.6	3123.1	7389.0	8673.5	8821.2
55°	791.5	843.4	881.3	876.3	769.5	839.4	1272.6	3366.6	7870.1	9037.8	9105.7
57.5°	778.5	854.4	912.3	886.3	770.5	802.5	1259.6	3563.2	8272.3	9310.3	9387.2
58°	774.5	850.4	916.3	884.3	767.5	791.5	1256.6	3580.2	8328.2	9329.3	9427.1
60°	735.6	815.5	913.3	869.3	750.6	761.6	1223.7	3635.1	8313.2	9231.5	9451.0
62.5°	664.7	730.6	844.4	796.5	698.7	721.6	1149.8	3567.2	7908.0	8760.4	9100.7
65°	584.9	633.8	709.7	700.7	624.8	680.7	1049.0	3298.7	7096.5	7995.8	8354.1
67.5°	525.0	564.9	612.8	599.9	561.9	625.8	940.2	2844.6	6186.2	7077.6	7528.7
70°	464.1	495.1	519.0	510.0	498.1	571.9	843.4	2308.6	5313.9	6205.2	6642.4
72.5°	402.2	431.2	451.1	438.2	431.2	515.0	764.5	1791.6	4197.0	5119.3	5681.2
75°	336.4	365.3	379.3	364.3	360.3	454.1	647.8	1338.5	3149.0	3946.5	4431.6
77.5°	260.5	291.4	309.4	304.4	306.4	373.3	523.0	916.3	2251.7	2689.9	3200.9
80°	182.7	216.6	228.6	223.6	237.5	284.5	369.3	581.9	1553.0	1745.7	2106.0
82.5°	112.8	144.7	146.7	151.7	161.7	210.6	278.5	354.3	975.1	1008.1	1269.6
85°	56.9	68.9	73.9	81.8	90.8	128.8	158.7	219.6	627.8	475.1	709.7
87.5°	19.0	20.0	24.0	29.9	36.9	52.9	67.9	89.8	155.7	85.8	219.6
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: P452525

CATALOG NUMBER: GALN-SA3C-727-U-SLR

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3796.8	3796.8	3796.8	3796.8	3796.8	3796.8	3796.8	3796.8	3796.8	3796.8
2.5°	4250.9	4335.8	4397.6	4454.5	4399.6	4394.7	4340.8	4253.9	4218.0	4218.0
5°	4501.4	4700.1	4860.8	4963.6	4919.7	4813.9	4639.2	4416.6	4296.8	4275.9
7.5°	4570.3	4962.6	5261.0	5366.8	5292.9	5059.4	4725.0	4349.7	4178.1	4140.1
10°	4528.4	5038.4	5476.6	5644.3	5541.5	5188.1	4732.0	4271.9	4060.3	4016.4
12.5°	4484.5	5048.4	5516.5	5759.1	5692.2	5291.9	4782.9	4221.0	3976.4	3913.6
15°	4516.4	5052.4	5467.6	5718.1	5761.1	5416.7	4866.8	4257.9	3959.5	3892.6
17.5°	4718.0	5128.3	5397.7	5600.4	5751.1	5586.4	5105.3	4434.6	4111.2	4028.3
20°	5139.2	5309.9	5437.7	5594.4	5836.9	5932.7	5593.4	4919.7	4537.4	4464.5
22.5°	6358.9	6328.0	6066.5	6063.5	6414.8	6799.1	6776.1	5905.8	5330.9	5271.0
25°	6816.1	6672.3	6294.0	6202.2	6356.9	6949.8	6864.0	6107.4	5576.4	5430.7
27.5°	6637.4	6281.1	6032.5	6011.6	5960.7	6520.6	6727.2	6189.2	5662.2	5520.5
30°	6626.4	6102.4	5747.1	5789.0	5837.9	6372.9	6803.1	6445.8	5881.8	5730.1
32.5°	6653.4	6127.4	5768.0	5776.0	5921.8	6394.9	6886.9	6725.2	6170.3	6018.6
35°	6762.2	6269.1	5901.8	5882.8	6110.4	6538.6	7029.6	7164.4	6564.5	6391.9
37.5°	6937.8	6551.6	6146.3	6141.3	6471.7	6798.1	7207.3	7607.5	6956.8	6771.1
40°	7196.3	6881.9	6581.5	6554.5	6962.8	7220.3	7437.9	8079.7	7412.9	7174.4
42.5°	7508.7	7278.2	7155.4	7262.2	7654.5	7694.4	7797.2	8515.8	7801.2	7523.7
45°	7798.2	7787.2	7957.9	8241.3	8469.9	8230.4	8172.5	8808.3	8102.6	7801.2
47.5°	8142.5	8440.0	8955.0	9370.2	9609.7	8854.2	8492.9	8998.9	8322.2	8044.7
50°	8491.9	9221.5	10043.9	10622.8	10673.7	9531.9	8713.4	9178.6	8521.8	8233.4
52.5°	8859.2	9845.3	10940.2	11612.9	11514.1	10121.8	8927.0	9300.3	8727.4	8473.9
55°	9178.6	10227.6	11441.3	12087.0	11942.3	10481.1	9157.6	9432.1	9020.9	8807.3
57.5°	9357.2	10259.5	11316.5	11880.4	11723.7	10411.2	9263.4	9529.9	9208.5	9040.8
58°	9383.2	10216.6	11205.7	11760.7	11601.0	10352.3	9262.4	9525.9	9220.5	9051.8
60°	9360.2	9938.1	10793.5	11287.6	11119.9	9983.0	9224.5	9451.0	9068.8	8926.0
62.5°	9147.6	9455.0	10081.8	10441.2	10393.3	9406.1	9068.8	9168.6	8606.7	8468.9
65°	8868.2	8796.3	9170.6	9425.1	9461.0	8974.0	8914.1	8557.7	8013.8	7819.1
67.5°	8528.8	8049.7	8048.7	8193.4	8253.3	8309.2	8591.7	7894.0	7159.4	6953.8
70°	7952.9	6898.9	6581.5	6752.2	6702.3	7174.4	8015.8	6961.8	6129.4	5888.8
72.5°	6896.9	5474.6	4966.6	5186.1	5060.4	5626.3	7013.7	5729.1	5068.4	4772.9
75°	5590.4	4095.2	3571.2	3772.8	3695.0	4267.9	5835.9	4161.1	3635.1	3522.3
77.5°	4340.8	2967.4	2662.9	2635.0	2692.9	3176.0	4280.9	2809.7	2396.4	2319.6
80°	2788.7	2124.0	2141.9	2106.0	2135.9	2002.2	2599.1	1792.6	1622.9	1561.0
82.5°	1835.5	1480.2	1764.6	1628.9	1547.1	1346.4	1704.8	1173.8	996.1	962.2
85°	1250.6	1089.9	992.1	758.6	893.3	1037.0	1278.6	631.8	501.0	454.1
87.5°	564.9	379.3	278.5	171.7	271.5	313.4	620.8	73.9	56.9	58.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)