

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: P451595

Luminaire Tested: **GALN-SA2C-727-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451595
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-727-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10192 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G3

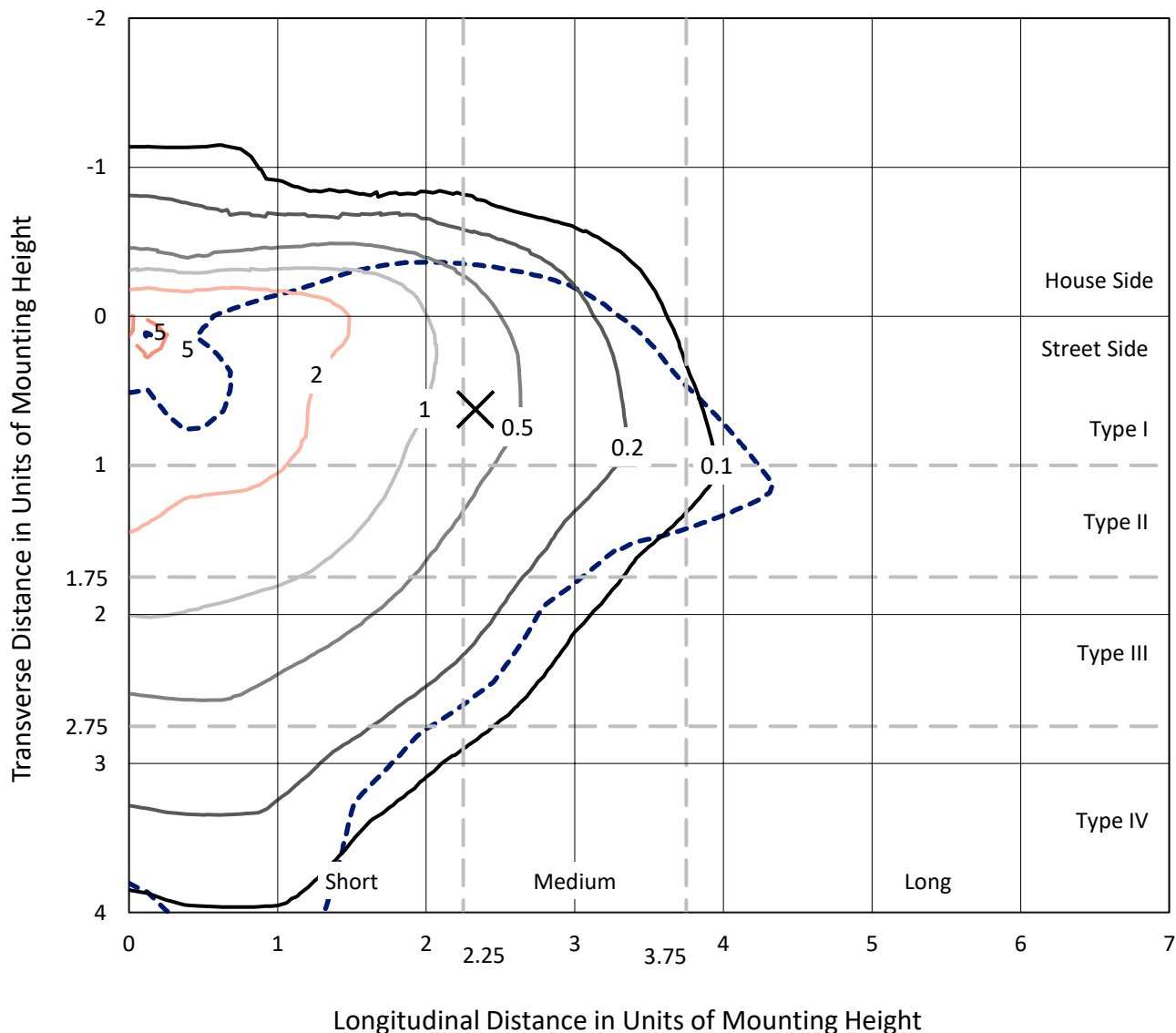
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P451595
 CATALOG NUMBER: GALN-SA2C-727-U-SLL

Iso-Footcandle Lines of Horizontal Illumination

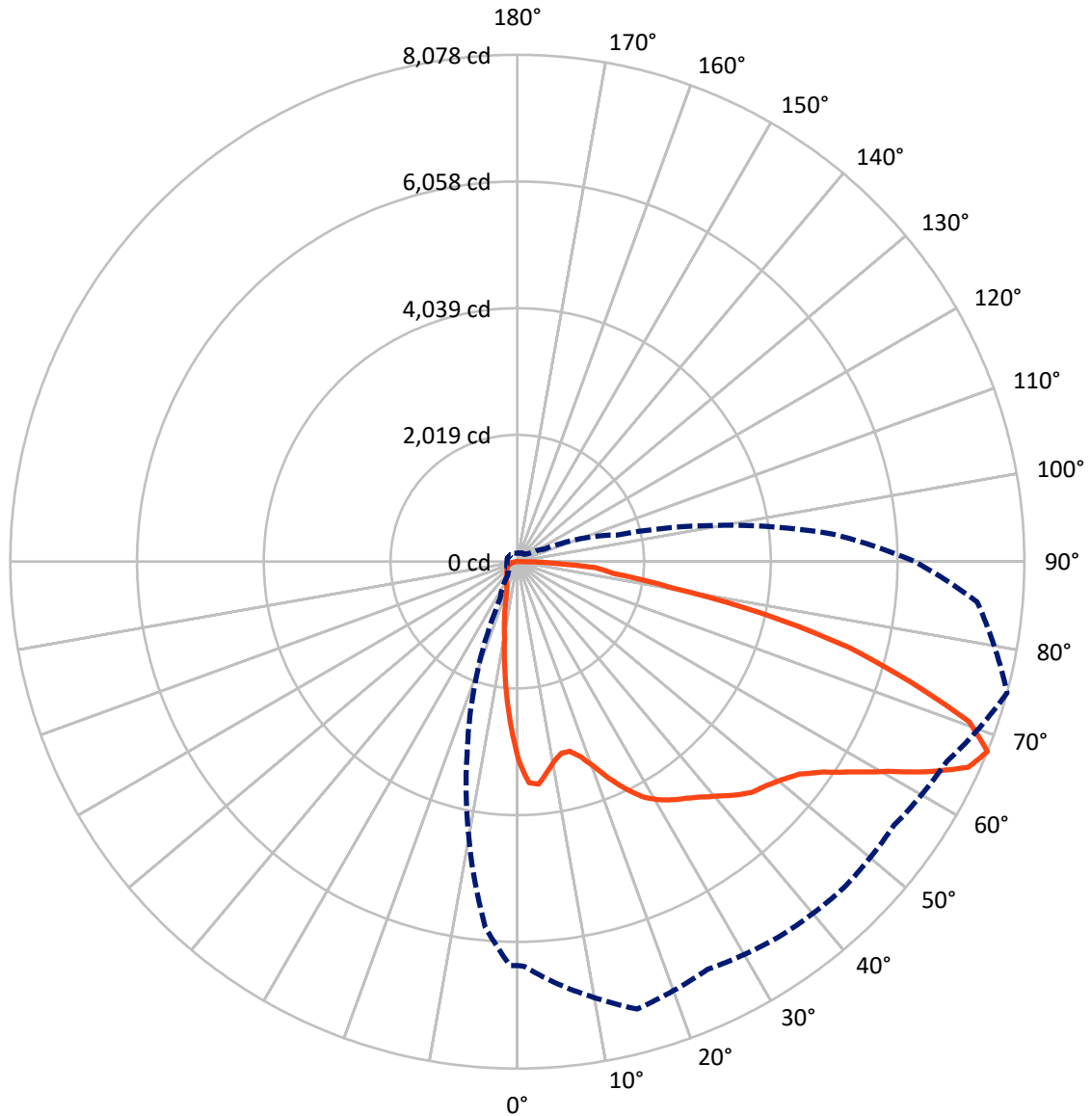
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type III - Medium - N/A

REPORT NUMBER: P451595
CATALOG NUMBER: GALN-SA2C-727-U-SLL

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P451595

CATALOG NUMBER: GALN-SA2C-727-U-SLL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1722.7	0.0	1722.7
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	8469.3	0.0	8469.3
	% Fixture	83.1	0.0	83.1
Total	Lumens	10192.0	0.0	10192.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.5	2.4
10°-20°	503.7	4.9
20°-30°	724.8	7.1
30°-40°	1043.9	10.2
40°-50°	1466.4	14.4
50°-60°	2045.2	20.1
60°-70°	2431.6	23.9
70°-80°	1432.1	14.1
80°-90°	302.8	3.0
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°	10192.0	100.0
0°-180°	10192.0	100.0

Coefficient of Utilization



REPORT NUMBER: P451595

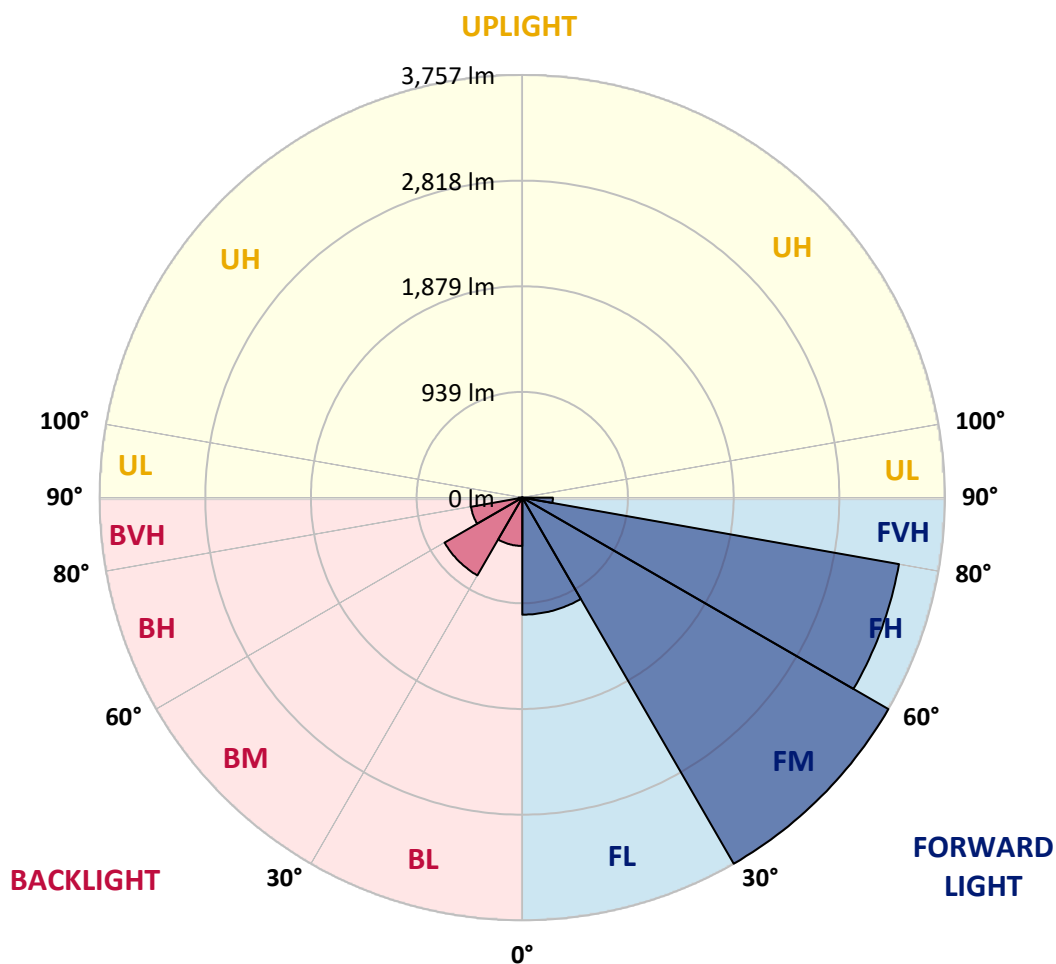
CATALOG NUMBER: GALN-SA2C-727-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1040.3	10.2			
FM	(30°-60°)	3757.4	36.9			
FH	(60°-80°)	3400.1	33.4			G2/5000
FVH	(80°-90°)	271.5	2.7			G3/500
BL	(0°-30°)	429.7	4.2	B1/500		
BM	(30°-60°)	798.1	7.8	B1/1000		
BH	(60°-80°)	463.5	4.5	B1/500		G1/500
BVH	(80°-90°)	31.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Medium





REPORT NUMBER: P451595

CATALOG NUMBER: GALN-SA2C-727-U-SLL

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3184.2	3184.2	3184.2	3184.2	3184.2	3184.2	3184.2	3184.2	3184.2	3184.2	3184.2
2.5°	3433.2	3437.8	3467.2	3552.8	3611.7	3633.2	3648.3	3620.2	3592.7	3526.0	3425.4
5°	3422.8	3449.6	3526.0	3718.2	3869.8	3935.2	3954.8	3870.5	3731.3	3560.0	3354.2
7.5°	3222.8	3258.7	3376.4	3698.6	3965.9	4118.8	4098.6	3946.3	3695.3	3390.1	3102.5
10°	2985.5	3025.4	3167.2	3556.8	3901.2	4111.6	4111.6	3926.0	3592.7	3230.0	2898.6
12.5°	2797.3	2839.1	3001.2	3411.0	3766.6	3965.9	3999.2	3839.8	3518.9	3128.7	2764.6
15°	2735.2	2775.7	2950.2	3322.8	3624.1	3745.6	3756.8	3704.5	3482.9	3135.9	2758.7
17.5°	2812.3	2864.6	3041.1	3348.9	3493.4	3500.6	3509.0	3550.2	3486.8	3267.2	2877.7
20°	3035.2	3091.4	3275.7	3433.2	3379.0	3304.5	3309.1	3414.9	3533.2	3484.2	3162.0
22.5°	3356.8	3405.8	3594.7	3581.6	3330.6	3177.0	3145.0	3292.7	3601.9	3754.8	3464.6
25°	3703.8	3761.3	3978.3	3801.9	3344.3	3101.2	3081.0	3220.8	3673.1	4007.7	3814.3
27.5°	4101.2	4157.4	4328.6	4024.1	3416.2	3095.3	3071.2	3214.3	3737.1	4241.7	4148.2
30°	4396.6	4448.2	4564.6	4211.0	3504.5	3134.6	3104.5	3265.9	3792.0	4401.8	4473.7
32.5°	4628.6	4682.2	4745.6	4327.3	3620.8	3205.8	3150.2	3360.0	3863.9	4524.1	4714.9
35°	4870.4	4933.8	4929.3	4430.6	3729.3	3288.1	3233.9	3496.0	3977.0	4630.6	5020.8
37.5°	5177.0	5202.5	5169.8	4523.4	3859.4	3436.5	3406.4	3697.9	4137.8	4759.3	5378.3
40°	5488.1	5539.1	5371.1	4635.8	4017.5	3715.6	3712.3	3996.6	4328.6	4910.3	5724.7
42.5°	5754.7	5797.9	5559.3	4733.9	4209.0	4056.1	4080.9	4397.3	4579.0	5085.5	6003.1
45°	5955.4	5993.9	5733.2	4828.6	4461.3	4449.5	4595.9	4826.7	4894.6	5243.0	6166.5
47.5°	6126.0	6163.2	5854.1	4972.4	4773.1	4919.5	5174.4	5274.4	5164.6	5333.2	6349.5
50°	6269.8	6280.9	5937.1	5143.6	5160.0	5495.3	5742.3	5807.0	5431.2	5462.6	6508.3
52.5°	6419.4	6405.0	6080.2	5359.3	5578.3	6041.7	6221.4	6288.7	5686.8	5622.1	6739.7
55°	6754.7	6768.4	6401.1	5631.2	6001.1	6578.2	6814.8	6750.1	5969.8	5915.5	7033.8
57.5°	7159.9	7148.2	6852.7	6056.7	6431.8	7077.6	7254.0	7150.1	6347.5	6318.8	7331.8
60°	7317.4	7333.1	7230.5	6514.2	6856.7	7514.8	7695.2	7533.8	6800.5	6787.4	7556.6
62.5°	7159.3	7247.5	7316.8	6921.4	7218.7	7836.4	8015.5	7831.1	7273.0	7367.8	7714.2
65°	6844.2	6863.2	7099.1	7266.5	7393.3	7889.3	7982.8	7884.7	7667.8	7896.5	7707.0
67.5°	6435.1	6451.4	6727.9	7379.5	7168.4	7288.0	7353.4	7324.6	7545.5	8077.5	7352.1
70°	6045.6	6032.5	6324.7	7091.3	6240.3	6058.6	6112.9	6022.7	6510.9	7635.1	6656.0
72.5°	5287.4	5334.5	5648.2	6290.0	4941.0	4645.6	4763.9	4530.6	5007.7	6539.0	5402.5
75°	4141.7	4152.8	4676.3	5278.9	3727.3	3261.3	3421.5	3324.1	3835.8	5454.7	3730.6
77.5°	2867.9	2843.1	3405.8	4031.9	2658.1	2387.5	2390.1	2343.7	2678.4	4016.2	2534.6
80°	1821.5	1783.6	2132.0	2490.8	1826.7	1954.2	1890.1	1888.2	1743.7	2477.7	1532.6
82.5°	984.3	1026.1	1347.0	1561.4	1310.4	1510.4	1384.3	1343.8	1196.7	1550.9	980.4
85°	448.4	487.6	718.3	1062.1	995.4	1006.5	672.5	793.4	990.2	1259.4	523.5
87.5°	43.8	56.2	148.4	501.3	339.9	268.0	100.0	192.8	249.0	447.7	41.8
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: P451595
 CATALOG NUMBER: GALN-SA2C-727-U-SLL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3184.2	3184.2	3184.2	3184.2	3184.2	3184.2	3184.2	3184.2	3184.2	3184.2	3184.2
2.5°	3384.2	3350.2	3234.5	3139.1	3037.8	2960.7	2860.0	2792.7	2746.3	2676.4	2667.9
5°	3228.7	3145.7	2944.4	2739.1	2562.0	2428.7	2293.4	2169.2	2096.0	2073.1	2043.7
7.5°	2966.6	2826.7	2567.9	2332.6	2129.4	1930.7	1777.7	1669.2	1596.7	1554.2	1503.2
10°	2750.9	2588.8	2273.8	1985.6	1818.2	1694.7	1560.1	1443.7	1354.2	1277.7	1235.9
12.5°	2605.8	2422.8	2068.6	1834.6	1705.2	1573.8	1416.3	1285.6	1153.6	1066.6	1029.4
15°	2562.0	2368.6	2005.2	1759.4	1573.8	1401.9	1225.5	1054.9	924.2	841.8	814.4
17.5°	2669.2	2435.2	2004.5	1659.4	1419.6	1214.3	988.2	828.1	694.1	632.7	613.1
20°	2869.2	2563.3	2010.4	1560.7	1252.3	963.4	718.9	587.6	523.5	497.4	487.6
22.5°	3148.3	2758.7	2028.0	1463.4	1069.3	739.8	538.5	471.9	449.0	444.4	442.5
25°	3492.1	3000.6	2087.5	1375.8	915.0	564.7	450.3	420.2	407.2	402.6	401.9
27.5°	3808.4	3313.0	2159.4	1300.6	766.0	486.9	407.2	381.7	368.6	368.0	369.3
30°	4094.0	3574.4	2219.5	1216.3	652.9	432.7	379.1	353.6	341.2	340.5	344.4
32.5°	4341.1	3789.4	2264.0	1133.3	590.2	399.3	353.6	326.1	315.7	313.7	315.7
35°	4605.1	4003.8	2243.7	1068.6	554.2	371.9	334.6	307.8	295.4	289.5	289.5
37.5°	4906.4	4224.7	2209.1	1015.0	537.9	349.0	318.3	292.1	279.7	273.8	273.2
40°	5235.1	4445.6	2161.4	967.3	521.6	335.3	307.2	279.7	264.7	258.8	257.5
42.5°	5525.3	4634.5	2122.2	935.9	494.8	337.9	297.4	270.6	251.6	243.8	243.1
45°	5777.6	4824.7	2115.0	917.6	472.5	334.0	294.8	263.4	241.2	232.7	231.4
47.5°	5975.0	5022.7	2156.1	907.2	448.4	313.1	311.8	258.8	232.0	222.9	221.6
50°	6215.5	5303.8	2250.3	885.6	426.1	293.5	329.4	258.2	224.8	213.1	209.8
52.5°	6535.8	5669.8	2377.7	847.0	394.1	275.2	314.4	258.2	216.3	204.6	200.6
55°	7020.1	6136.4	2502.5	792.8	349.0	251.0	283.7	250.3	203.9	193.5	190.8
57.5°	7341.0	6477.6	2582.3	717.6	292.8	233.3	244.4	237.9	191.5	180.4	180.4
60°	7357.3	6569.1	2544.4	622.9	257.5	217.0	212.4	239.9	180.4	168.6	167.3
62.5°	7169.1	6344.9	2347.0	537.9	238.6	199.3	192.2	210.5	169.3	157.5	155.6
65°	6875.0	5773.0	2004.5	497.4	228.1	183.7	173.2	172.5	157.5	146.4	143.8
67.5°	6334.5	5045.0	1647.0	473.8	222.9	166.0	156.2	152.9	143.8	134.6	133.3
70°	5537.7	4225.4	1320.9	464.0	220.3	147.7	139.9	135.9	128.1	120.9	120.3
72.5°	4308.4	3427.4	1090.2	457.5	218.9	130.7	122.2	117.0	112.4	105.9	105.9
75°	3094.7	2521.5	832.0	412.4	202.6	112.4	103.3	100.0	93.5	88.2	89.5
77.5°	1950.9	1698.0	547.7	303.3	156.9	90.2	82.4	80.4	75.2	68.0	72.5
80°	1317.6	1194.1	319.6	190.8	98.7	66.0	63.4	62.7	56.9	49.0	49.7
82.5°	896.7	879.7	166.0	108.5	56.9	38.6	37.3	38.6	32.0	26.1	26.1
85°	350.3	478.4	78.4	42.5	18.3	5.9	8.5	9.2	5.2	2.6	3.3
87.5°	6.5	49.0	2.0	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: P451595
 CATALOG NUMBER: GALN-SA2C-727-U-SLL

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3184.2	3184.2	3184.2	3184.2	3184.2	3184.2	3184.2	3184.2	3184.2	3184.2	3184.2
2.5°	2654.8	2648.9	2658.7	2616.9	2625.4	2641.1	2648.9	2653.5	2718.2	2703.2	2744.4
5°	2071.2	2065.3	2103.2	2108.4	2128.0	2124.1	2143.1	2147.7	2171.2	2179.7	2237.2
7.5°	1506.5	1532.0	1575.1	1597.3	1630.7	1641.1	1631.3	1655.5	1606.5	1641.8	1652.2
10°	1210.4	1179.7	1161.4	1212.4	1218.9	1267.3	1247.7	1232.0	1260.7	1262.1	1289.5
12.5°	1007.8	941.8	898.0	912.4	928.1	949.0	952.3	983.6	1004.5	1024.2	1040.5
15°	790.2	767.3	727.4	707.8	730.0	738.5	758.8	784.9	807.2	813.0	835.3
17.5°	606.5	610.4	603.9	592.1	605.9	612.4	613.7	614.4	620.2	616.3	649.0
20°	488.2	501.9	518.3	520.9	525.5	528.7	522.9	500.6	501.3	515.0	525.5
22.5°	441.8	444.4	462.7	468.6	483.0	477.1	460.1	449.7	448.4	451.6	456.8
25°	405.2	409.1	422.2	431.4	442.5	432.0	419.6	409.8	408.5	411.8	417.0
27.5°	372.5	378.4	390.2	399.3	409.8	400.0	388.2	379.7	379.1	378.4	381.7
30°	346.4	352.9	361.4	371.9	379.1	370.6	359.5	354.9	354.2	352.9	354.2
32.5°	320.3	330.7	339.2	344.4	351.6	345.1	336.6	334.0	329.4	325.5	323.5
35°	290.8	302.0	315.0	321.6	328.7	322.2	316.3	305.2	297.4	296.7	298.0
37.5°	273.8	278.4	288.9	300.0	307.2	303.9	292.8	281.7	279.7	279.7	281.0
40°	258.8	260.8	265.4	279.7	292.8	283.0	269.3	266.0	266.0	265.4	266.0
42.5°	243.8	245.7	245.7	256.9	277.8	262.1	251.6	251.6	251.6	252.3	254.2
45°	230.1	230.7	230.1	237.9	257.5	244.4	237.2	239.2	240.5	241.8	243.1
47.5°	218.3	218.9	218.3	224.8	234.6	229.4	225.5	228.1	230.7	232.7	234.0
50°	207.8	207.2	208.5	212.4	217.0	218.3	215.7	219.6	220.9	223.5	226.8
52.5°	198.7	198.0	199.3	201.3	207.8	207.8	207.8	211.1	213.7	216.3	220.9
55°	188.2	188.9	190.8	193.5	202.0	200.6	201.3	203.9	206.5	210.5	213.1
57.5°	178.4	179.7	182.3	186.3	194.8	194.1	194.8	196.1	199.3	201.3	203.9
60°	167.3	169.9	173.2	175.8	184.3	183.7	186.9	189.5	191.5	191.5	192.8
62.5°	156.2	160.1	163.4	165.4	174.5	175.2	179.7	181.7	183.0	181.7	183.7
65°	145.1	151.0	152.3	154.9	164.0	164.7	169.9	174.5	173.2	171.9	175.2
67.5°	134.0	141.2	140.5	143.8	152.9	154.2	158.8	166.7	164.0	162.7	165.4
70°	121.6	126.8	127.4	129.4	141.8	139.9	147.1	154.2	152.3	152.9	152.9
72.5°	107.8	112.4	112.4	116.3	129.4	126.1	132.0	139.9	139.9	139.2	139.2
75°	91.5	94.1	96.7	102.6	116.3	112.4	116.3	123.5	124.8	123.5	123.5
77.5°	73.9	77.8	79.1	86.9	96.7	96.1	100.0	103.3	105.9	104.6	104.6
80°	52.3	56.2	61.4	69.9	75.8	77.8	79.7	82.4	83.7	83.7	85.0
82.5°	29.4	35.3	39.9	48.4	51.0	60.8	60.1	62.1	60.1	52.9	58.8
85°	6.5	12.4	17.6	22.2	25.5	35.3	37.3	41.8	34.6	32.0	32.0
87.5°	0.0	0.0	0.0	0.0	0.0	5.2	10.5	14.4	12.4	10.5	10.5
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: P451595
 CATALOG NUMBER: GALN-SA2C-727-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3184.2	3184.2	3184.2	3184.2	3184.2	3184.2	3184.2	3184.2	3184.2	3184.2
2.5°	2779.0	2835.9	2904.5	3022.8	3105.8	3195.3	3285.5	3381.6	3407.1	3433.2
5°	2252.9	2364.6	2425.4	2584.2	2750.9	2962.7	3135.9	3325.4	3404.5	3422.8
7.5°	1706.5	1782.3	1941.8	2102.6	2309.1	2531.3	2796.7	3092.1	3184.2	3222.8
10°	1352.9	1456.2	1596.0	1768.6	1949.6	2188.8	2488.2	2833.3	2964.0	2985.5
12.5°	1151.6	1266.6	1418.9	1601.3	1772.5	1952.9	2254.8	2611.0	2750.9	2797.3
15°	920.9	1060.1	1235.9	1428.1	1614.3	1811.7	2117.6	2519.5	2681.0	2735.2
17.5°	723.5	835.9	1026.1	1234.6	1455.5	1705.2	2088.8	2563.3	2762.0	2812.3
20°	553.6	634.0	794.1	1014.3	1273.2	1600.0	2096.0	2728.7	2966.6	3035.2
22.5°	478.4	519.6	617.0	826.8	1116.3	1508.5	2125.4	2955.5	3242.4	3356.8
25°	433.3	454.9	509.8	647.0	966.6	1419.6	2192.7	3260.7	3628.0	3703.8
27.5°	394.8	410.4	444.4	543.1	830.7	1337.2	2271.2	3599.2	3988.1	4101.2
30°	358.2	379.1	411.1	482.3	743.8	1262.1	2369.9	3873.7	4291.4	4396.6
32.5°	330.1	351.0	380.4	439.9	669.9	1183.0	2428.7	4114.9	4539.1	4628.6
35°	307.2	324.8	355.5	405.9	613.7	1122.8	2416.9	4306.4	4778.9	4870.4
37.5°	290.8	305.9	336.6	373.8	571.2	1060.1	2411.0	4559.3	5071.1	5177.0
40°	275.8	291.5	319.6	352.9	528.7	986.2	2414.3	4810.3	5382.2	5488.1
42.5°	264.0	281.7	304.6	347.0	485.0	926.8	2414.3	5028.6	5652.8	5754.7
45°	254.2	273.2	295.4	346.4	450.3	881.7	2398.0	5216.2	5868.5	5955.4
47.5°	245.7	266.7	298.7	334.6	441.8	849.0	2383.6	5366.5	6044.3	6126.0
50°	239.9	264.7	317.6	320.9	444.4	839.2	2452.9	5556.0	6199.2	6269.8
52.5°	235.3	265.4	317.0	300.6	439.9	845.7	2597.3	5852.1	6414.2	6419.4
55°	226.1	264.7	300.6	277.8	420.9	856.8	2782.9	6282.2	6750.8	6754.7
57.5°	217.0	257.5	279.1	258.2	382.3	856.8	3006.4	6689.3	7156.7	7159.9
60°	207.8	268.0	245.1	241.2	332.0	841.2	3242.4	6868.4	7284.1	7317.4
62.5°	198.7	269.9	218.9	226.1	295.4	803.2	3418.2	6670.4	7111.6	7159.3
65°	188.2	217.6	202.0	210.5	276.5	739.8	3362.6	6307.7	6787.4	6844.2
67.5°	175.8	184.3	183.7	194.1	269.9	646.4	3069.8	5848.9	6438.4	6435.1
70°	160.8	165.4	167.3	178.4	257.5	573.8	2558.1	5253.4	5972.4	6045.6
72.5°	145.1	149.0	151.0	160.8	245.1	532.7	1985.6	4433.2	5173.1	5287.4
75°	128.1	130.7	133.3	141.8	232.0	471.9	1414.3	3384.2	3962.0	4141.7
77.5°	110.5	110.5	113.7	122.2	195.4	389.5	949.0	2373.8	2684.2	2867.9
80°	89.5	90.2	88.9	98.0	143.8	266.7	539.2	1585.6	1786.2	1821.5
82.5°	68.6	66.7	67.3	71.9	107.2	181.7	287.6	984.9	1003.9	984.3
85°	43.1	43.1	41.8	47.1	68.6	94.8	156.9	603.3	471.2	448.4
87.5°	17.6	14.4	16.3	19.0	32.7	38.6	61.4	124.2	47.7	43.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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