

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: P454524

Luminaire Tested: **GALN-SA5C-827-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454524
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-SA5C-827-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 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: 22310 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

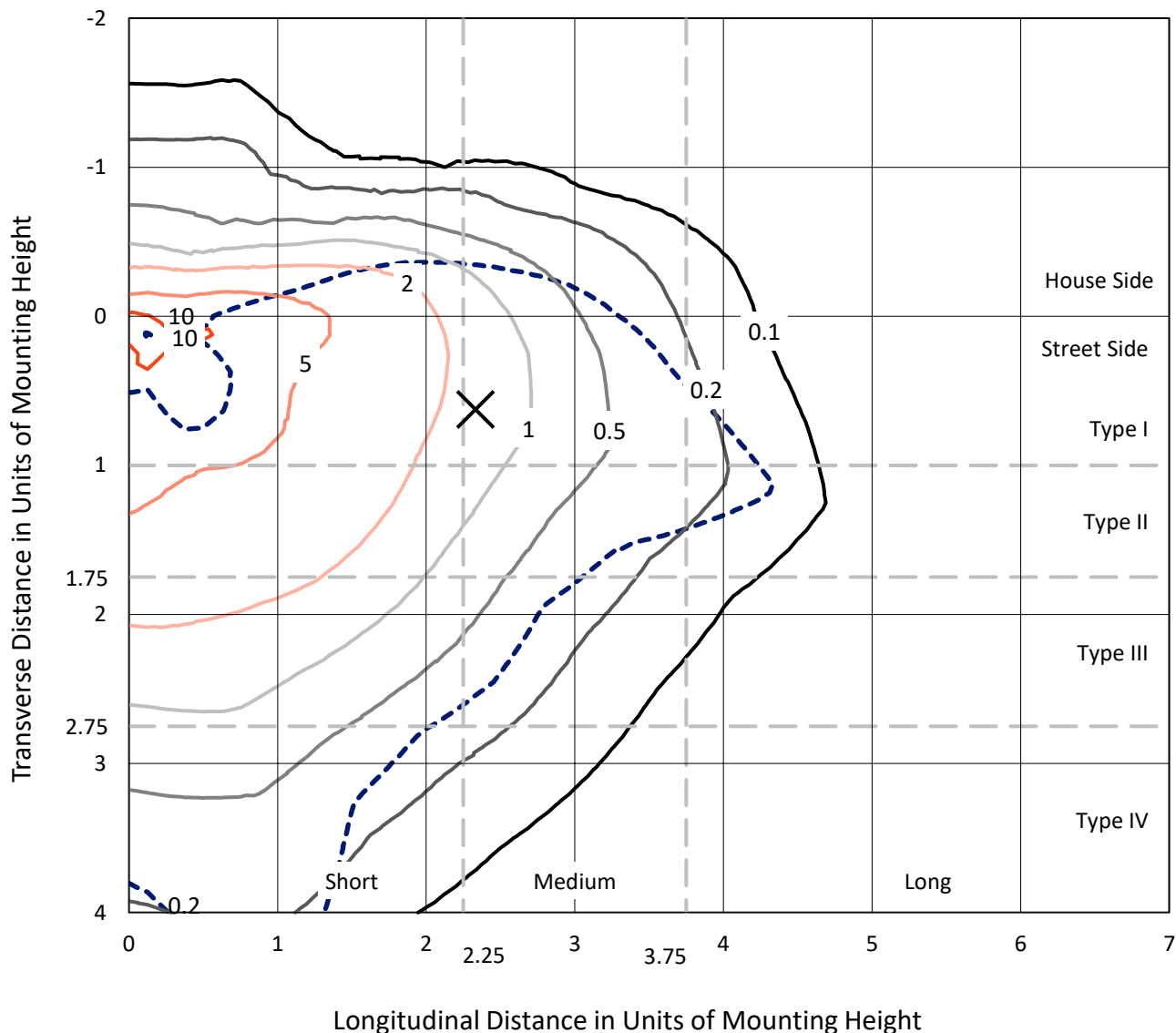
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P454524
 CATALOG NUMBER: GALN-SA5C-827-U-SLL

Iso-Footcandle Lines of Horizontal Illumination

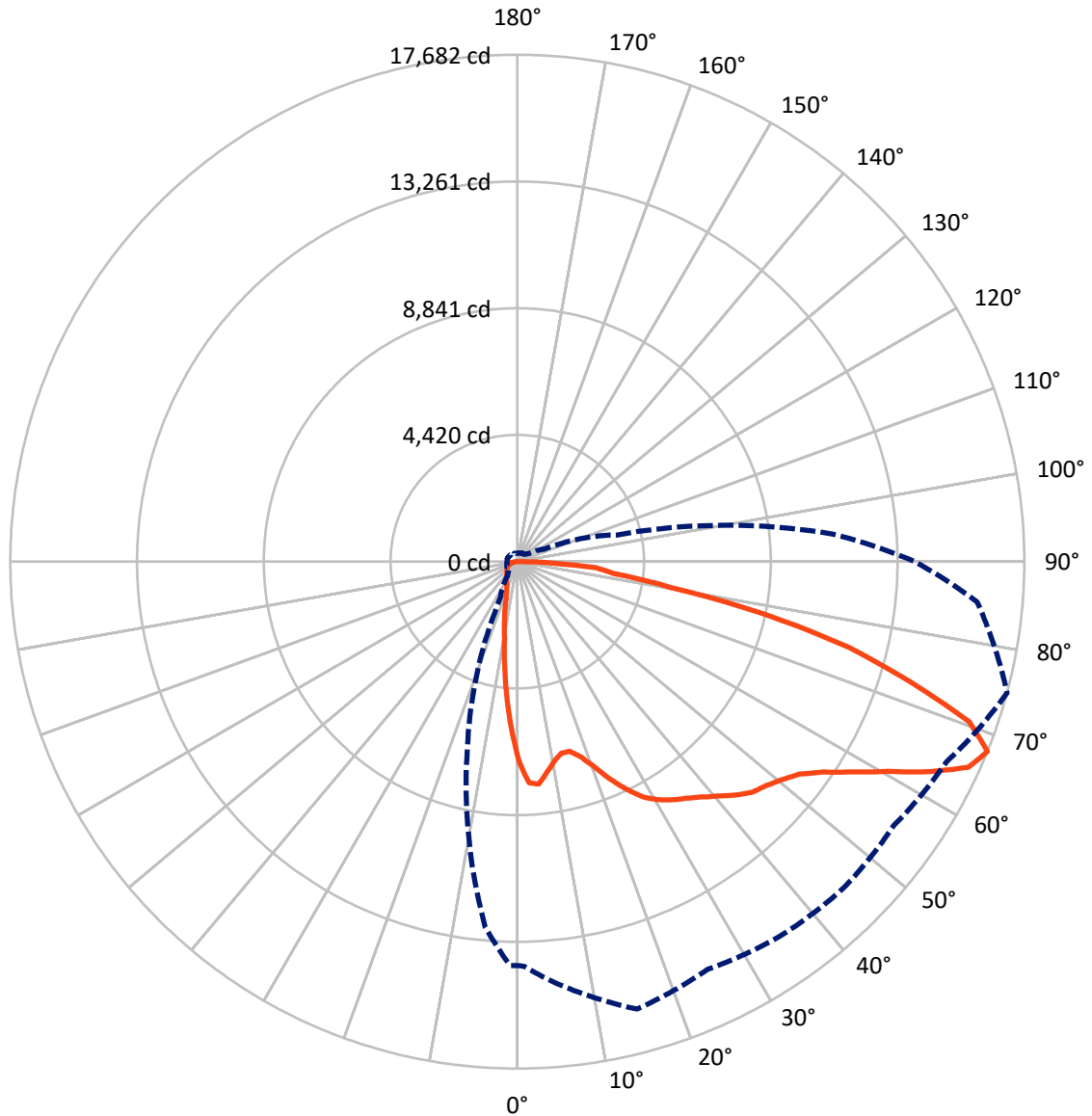
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
 Type III - Medium - N/A

REPORT NUMBER: P454524
CATALOG NUMBER: GALN-SA5C-827-U-SLL

Luminous Intensity Polar Plot



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

REPORT NUMBER: P454524

CATALOG NUMBER: GALN-SA5C-827-U-SLL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3770.9	0.0	3770.9
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	18539.1	0.0	18539.1
	% Fixture	83.1	0.0	83.1
Total	Lumens	22310.0	0.0	22310.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	528.7	2.4
10°-20°	1102.6	4.9
20°-30°	1586.6	7.1
30°-40°	2285.1	10.2
40°-50°	3210.0	14.4
50°-60°	4476.8	20.1
60°-70°	5322.6	23.9
70°-80°	3134.7	14.1
80°-90°	662.9	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°	22310.0	100.0
0°-180°	22310.0	100.0

Coefficient of Utilization



REPORT NUMBER: P454524

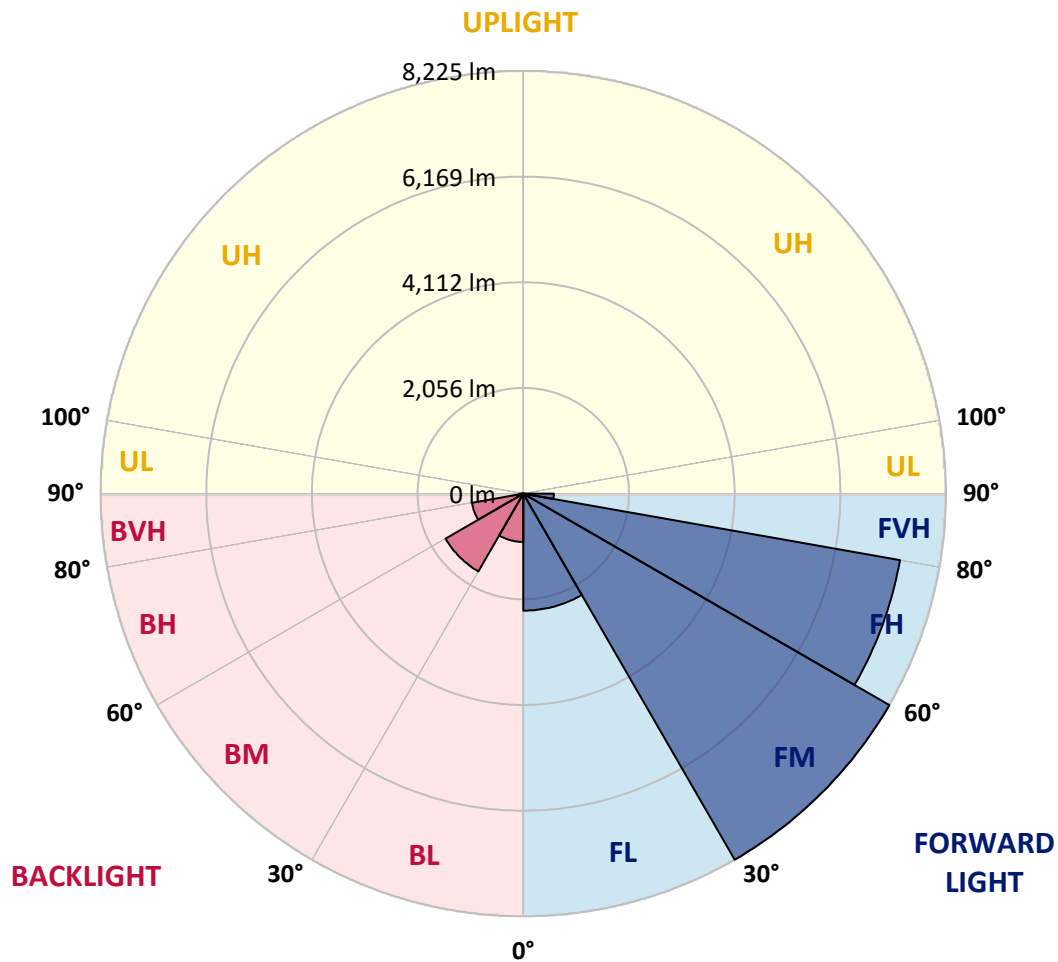
CATALOG NUMBER: GALN-SA5C-827-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2277.2	10.2			
FM	(30°-60°)	8224.9	36.9			
FH	(60°-80°)	7442.7	33.4			G3/7500
FVH	(80°-90°)	594.3	2.7			G4/750
BL	(0°-30°)	940.6	4.2	B2/1000		
BM	(30°-60°)	1747.1	7.8	B2/2500		
BH	(60°-80°)	1014.7	4.5	B3/2500		G3/2500
BVH	(80°-90°)	68.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





REPORT NUMBER: P454524
 CATALOG NUMBER: GALN-SA5C-827-U-SLL

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6970.2	6970.2	6970.2	6970.2	6970.2	6970.2	6970.2	6970.2	6970.2	6970.2	6970.2
2.5°	7515.3	7525.3	7589.6	7777.1	7905.8	7953.0	7985.9	7924.4	7864.3	7718.4	7498.1
5°	7492.4	7551.0	7718.4	8139.0	8470.9	8614.0	8656.9	8472.4	8167.6	7792.8	7342.1
7.5°	7054.6	7133.3	7390.8	8096.1	8681.2	9016.0	8971.7	8638.3	8088.9	7420.8	6791.3
10°	6535.3	6622.5	6933.0	7785.6	8539.6	9000.3	9000.3	8594.0	7864.3	7070.3	6345.0
12.5°	6123.2	6214.8	6569.6	7466.6	8244.9	8681.2	8754.2	8405.1	7702.7	6848.6	6051.7
15°	5987.3	6076.0	6458.0	7273.5	7933.0	8199.1	8223.4	8109.0	7624.0	6864.3	6038.8
17.5°	6156.1	6270.6	6656.9	7330.7	7646.9	7662.6	7681.2	7771.3	7632.6	7151.9	6299.2
20°	6644.0	6767.0	7170.5	7515.3	7396.5	7233.4	7243.4	7475.2	7734.1	7626.8	6921.5
22.5°	7347.9	7455.2	7868.6	7840.0	7290.6	6954.4	6884.3	7207.7	7884.4	8219.1	7583.9
25°	8107.5	8233.4	8708.4	8322.1	7320.7	6788.5	6744.1	7050.3	8040.3	8772.8	8349.3
27.5°	8977.4	9100.4	9475.3	8808.6	7478.1	6775.6	6722.7	7036.0	8180.5	9285.0	9080.4
30°	9624.0	9737.1	9991.7	9217.7	7671.2	6861.4	6795.6	7149.0	8300.7	9635.5	9792.9
32.5°	10131.9	10249.2	10388.0	9472.4	7925.9	7017.4	6895.8	7355.0	8458.1	9903.0	10320.8
35°	10661.3	10800.0	10790.0	9698.4	8163.3	7197.6	7078.9	7652.6	8705.6	10136.2	10990.3
37.5°	11332.3	11388.0	11316.5	9901.6	8448.0	7522.4	7456.6	8094.7	9057.5	10418.1	11772.9
40°	12013.2	12124.8	11757.2	10147.7	8794.3	8133.3	8126.1	8748.5	9475.3	10748.5	12531.1
42.5°	12597.0	12691.4	12169.2	10362.3	9213.4	8878.7	8933.0	9625.5	10023.2	11132.0	13140.6
45°	13036.2	13120.6	12549.7	10569.7	9765.7	9739.9	10060.4	10565.4	10714.2	11476.7	13498.3
47.5°	13409.6	13491.1	12814.4	10884.5	10448.1	10768.6	11326.5	11545.4	11305.1	11674.2	13898.9
50°	13724.3	13748.6	12996.1	11259.3	11295.1	12029.0	12569.8	12711.4	11888.8	11957.5	14246.5
52.5°	14051.9	14020.5	13309.4	11731.4	12210.7	13225.0	13618.4	13765.8	12448.2	12306.5	14753.0
55°	14785.9	14815.9	14011.9	12326.6	13136.3	14399.6	14917.5	14775.8	13067.6	12948.9	15396.8
57.5°	15672.9	15647.1	15000.5	13257.9	14079.1	15492.6	15878.9	15651.4	13894.6	13831.6	16049.1
60°	16017.7	16052.0	15827.4	14259.4	15009.0	16449.7	16844.6	16491.2	14886.0	14857.4	16541.3
62.5°	15671.4	15864.6	16016.2	15150.7	15801.6	17153.6	17545.6	17142.2	15920.4	16127.8	16886.1
65°	14981.9	15023.4	15539.8	15906.1	16183.6	17269.5	17474.1	17259.5	16784.5	17285.2	16870.3
67.5°	14086.3	14122.0	14727.2	16153.6	15691.5	15953.3	16096.3	16033.4	16517.0	17681.5	16093.5
70°	13233.6	13205.0	13844.5	15522.7	13659.9	13262.2	13381.0	13183.5	14252.2	16713.0	14569.8
72.5°	11574.0	11677.0	12363.8	13768.7	10815.8	10169.1	10428.1	9917.3	10961.7	14313.7	11825.8
75°	9066.1	9090.4	10236.4	11555.4	8159.0	7139.0	7489.5	7276.3	8396.5	11940.3	8166.2
77.5°	6277.7	6223.4	7455.2	8825.7	5818.5	5226.2	5231.9	5130.3	5862.8	8791.4	5548.1
80°	3987.2	3904.3	4666.8	5452.2	3998.7	4277.7	4137.5	4133.2	3817.0	5423.6	3354.9
82.5°	2154.6	2246.1	2948.6	3417.8	2868.5	3306.3	3030.1	2941.4	2619.5	3395.0	2146.0
85°	981.4	1067.3	1572.3	2324.8	2178.9	2203.2	1472.1	1736.8	2167.4	2756.9	1146.0
87.5°	95.9	123.0	324.8	1097.3	743.9	586.6	218.9	422.0	545.1	980.0	91.6
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: P454524

CATALOG NUMBER: GALN-SA5C-827-U-SLL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6970.2	6970.2	6970.2	6970.2	6970.2	6970.2	6970.2	6970.2	6970.2	6970.2	6970.2
2.5°	7408.0	7333.6	7080.3	6871.5	6649.7	6480.9	6260.6	6113.2	6011.6	5858.5	5840.0
5°	7067.5	6885.8	6445.1	5995.9	5608.2	5316.3	5020.2	4748.4	4588.1	4538.1	4473.7
7.5°	6493.8	6187.6	5621.1	5106.0	4661.1	4226.2	3891.4	3653.9	3495.1	3402.1	3290.5
10°	6021.6	5666.8	4977.3	4346.3	3980.1	3709.7	3415.0	3160.3	2964.3	2796.9	2705.4
12.5°	5704.0	5303.5	4528.0	4015.9	3732.6	3445.0	3100.2	2814.1	2525.1	2334.8	2253.3
15°	5608.2	5184.7	4389.3	3851.3	3445.0	3068.8	2682.5	2309.1	2023.0	1842.7	1782.6
17.5°	5842.8	5330.6	4387.8	3632.4	3107.4	2658.2	2163.2	1812.6	1519.4	1384.9	1342.0
20°	6280.6	5611.0	4400.7	3416.4	2741.1	2108.8	1573.7	1286.2	1146.0	1088.7	1067.3
22.5°	6891.5	6038.8	4439.3	3203.2	2340.6	1619.5	1178.9	1032.9	982.9	972.8	968.6
25°	7644.0	6568.2	4569.5	3011.5	2002.9	1236.1	985.7	919.9	891.3	881.3	879.9
27.5°	8336.5	7252.0	4726.9	2847.0	1676.7	1065.8	891.3	835.5	806.9	805.5	808.3
30°	8961.6	7824.3	4858.5	2662.5	1429.2	947.1	829.8	774.0	746.8	745.4	754.0
32.5°	9502.4	8295.0	4955.8	2480.8	1291.9	874.1	774.0	713.9	691.0	686.7	691.0
35°	10080.4	8764.2	4911.5	2339.1	1213.2	814.0	732.5	673.8	646.7	633.8	633.8
37.5°	10740.0	9247.8	4835.6	2221.8	1177.4	764.0	696.7	639.5	612.3	599.4	598.0
40°	11459.6	9731.3	4731.2	2117.4	1141.7	733.9	672.4	612.3	579.4	566.5	563.7
42.5°	12094.8	10144.8	4645.4	2048.7	1083.0	739.7	650.9	592.3	550.8	533.6	532.2
45°	12647.0	10561.1	4629.6	2008.6	1034.4	731.1	645.2	576.6	527.9	509.3	506.5
47.5°	13079.1	10994.6	4719.7	1985.8	981.4	685.3	682.4	566.5	507.9	487.9	485.0
50°	13605.6	11609.8	4925.8	1938.5	932.8	642.4	721.1	565.1	492.1	466.4	459.2
52.5°	14306.6	12411.0	5204.7	1854.1	862.7	602.3	688.1	565.1	473.5	447.8	439.2
55°	15366.7	13432.5	5478.0	1735.4	764.0	549.4	620.9	547.9	446.4	423.5	417.8
57.5°	16069.2	14179.3	5652.5	1570.9	640.9	510.7	535.1	520.8	419.2	394.9	394.9
60°	16104.9	14379.6	5569.6	1363.4	563.7	475.0	465.0	525.1	394.9	369.1	366.2
62.5°	15692.9	13888.8	5137.5	1177.4	522.2	436.4	420.6	460.7	370.5	344.8	340.5
65°	15049.1	12637.0	4387.8	1088.7	499.3	402.0	379.1	377.7	344.8	320.5	314.7
67.5°	13865.9	11043.3	3605.3	1037.2	487.9	363.4	341.9	334.8	314.7	294.7	291.9
70°	12122.0	9249.2	2891.4	1015.8	482.1	323.3	306.2	297.6	280.4	264.7	263.2
72.5°	9430.9	7502.4	2386.3	1001.5	479.3	286.1	267.5	256.1	246.1	231.8	231.8
75°	6774.2	5519.5	1821.2	902.7	443.5	246.1	226.0	218.9	204.6	193.1	196.0
77.5°	4270.5	3716.9	1198.9	663.8	343.4	197.4	180.3	176.0	164.5	148.8	158.8
80°	2884.2	2613.8	699.6	417.8	216.0	144.5	138.8	137.3	124.5	107.3	108.7
82.5°	1962.9	1925.7	363.4	237.5	124.5	84.4	81.5	84.4	70.1	57.2	57.2
85°	766.8	1047.2	171.7	93.0	40.1	12.9	18.6	20.0	11.4	5.7	7.2
87.5°	14.3	107.3	4.3	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: P454524
 CATALOG NUMBER: GALN-SA5C-827-U-SLL

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	6970.2	6970.2	6970.2	6970.2	6970.2	6970.2	6970.2	6970.2	6970.2	6970.2	6970.2
2.5°	5811.3	5798.5	5819.9	5728.4	5747.0	5781.3	5798.5	5808.5	5950.1	5917.2	6007.3
5°	4533.8	4520.9	4603.9	4615.3	4658.2	4649.6	4691.1	4701.1	4752.7	4771.2	4897.1
7.5°	3297.7	3353.5	3447.9	3496.5	3569.5	3592.4	3570.9	3623.9	3516.6	3593.8	3616.7
10°	2649.6	2582.3	2542.3	2653.9	2668.2	2774.0	2731.1	2696.8	2759.7	2762.6	2822.7
12.5°	2206.1	2061.6	1965.7	1997.2	2031.5	2077.3	2084.5	2153.1	2198.9	2241.8	2277.6
15°	1729.7	1679.6	1592.3	1549.4	1598.0	1616.6	1661.0	1718.2	1766.9	1779.7	1828.4
17.5°	1327.7	1336.2	1321.9	1296.2	1326.2	1340.5	1343.4	1344.8	1357.7	1349.1	1420.6
20°	1068.7	1098.7	1134.5	1140.2	1150.3	1157.4	1144.5	1095.9	1097.3	1127.4	1150.3
22.5°	967.1	972.8	1012.9	1025.8	1057.3	1044.4	1007.2	984.3	981.4	988.6	1000.0
25°	887.0	895.6	924.2	944.2	968.6	945.7	918.5	897.0	894.2	901.3	912.8
27.5°	815.5	828.4	854.1	874.1	897.0	875.6	849.8	831.2	829.8	828.4	835.5
30°	758.2	772.6	791.2	814.0	829.8	811.2	786.9	776.8	775.4	772.6	775.4
32.5°	701.0	723.9	742.5	754.0	769.7	755.4	736.8	731.1	721.1	712.5	708.2
35°	636.6	661.0	689.6	703.9	719.6	705.3	692.4	668.1	650.9	649.5	652.4
37.5°	599.4	609.5	632.4	656.7	672.4	665.3	640.9	616.6	612.3	612.3	615.2
40°	566.5	570.8	580.8	612.3	640.9	619.5	589.4	582.3	582.3	580.8	582.3
42.5°	533.6	537.9	537.9	562.2	608.0	573.7	550.8	550.8	550.8	552.2	556.5
45°	503.6	505.0	503.6	520.8	563.7	535.1	519.3	523.6	526.5	529.3	532.2
47.5°	477.8	479.3	477.8	492.1	513.6	502.2	493.6	499.3	505.0	509.3	512.2
50°	454.9	453.5	456.4	465.0	475.0	477.8	472.1	480.7	483.6	489.3	496.4
52.5°	434.9	433.5	436.4	440.6	454.9	454.9	454.9	462.1	467.8	473.5	483.6
55°	412.0	413.5	417.8	423.5	442.1	439.2	440.6	446.4	452.1	460.7	466.4
57.5°	390.6	393.4	399.2	407.7	426.3	424.9	426.3	429.2	436.4	440.6	446.4
60°	366.2	372.0	379.1	384.8	403.4	402.0	409.2	414.9	419.2	419.2	422.0
62.5°	341.9	350.5	357.7	362.0	382.0	383.4	393.4	397.7	400.6	397.7	402.0
65°	317.6	330.5	333.3	339.1	359.1	360.5	372.0	382.0	379.1	376.3	383.4
67.5°	293.3	309.0	307.6	314.7	334.8	337.6	347.7	364.8	359.1	356.2	362.0
70°	266.1	277.5	279.0	283.3	310.5	306.2	321.9	337.6	333.3	334.8	334.8
72.5°	236.1	246.1	246.1	254.7	283.3	276.1	289.0	306.2	306.2	304.7	304.7
75°	200.3	206.0	211.7	224.6	254.7	246.1	254.7	270.4	273.3	270.4	270.4
77.5°	161.7	170.2	173.1	190.3	211.7	210.3	218.9	226.0	231.8	228.9	228.9
80°	114.5	123.0	134.5	153.1	166.0	170.2	174.5	180.3	183.1	183.1	186.0
82.5°	64.4	77.3	87.3	105.9	111.6	133.1	131.6	135.9	131.6	115.9	128.8
85°	14.3	27.2	38.6	48.6	55.8	77.3	81.5	91.6	75.8	70.1	70.1
87.5°	0.0	0.0	0.0	0.0	0.0	11.4	22.9	31.5	27.2	22.9	22.9
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: P454524
 CATALOG NUMBER: GALN-SA5C-827-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6970.2	6970.2	6970.2	6970.2	6970.2	6970.2	6970.2	6970.2	6970.2	6970.2
2.5°	6083.2	6207.6	6357.8	6616.8	6798.5	6994.5	7191.9	7402.2	7458.0	7515.3
5°	4931.5	5176.1	5309.2	5656.8	6021.6	6485.2	6864.3	7279.2	7452.3	7492.4
7.5°	3735.5	3901.4	4250.5	4602.4	5054.5	5540.9	6121.8	6768.4	6970.2	7054.6
10°	2961.5	3187.5	3493.7	3871.4	4267.7	4791.3	5446.5	6201.9	6488.0	6535.3
12.5°	2520.8	2772.6	3106.0	3505.1	3879.9	4274.8	4935.8	5715.5	6021.6	6123.2
15°	2015.8	2320.5	2705.4	3126.0	3533.7	3965.8	4635.3	5515.2	5868.6	5987.3
17.5°	1583.7	1829.8	2246.1	2702.5	3186.1	3732.6	4572.4	5611.0	6046.0	6156.1
20°	1211.8	1387.7	1738.3	2220.4	2786.9	3502.3	4588.1	5973.0	6493.8	6644.0
22.5°	1047.2	1137.4	1350.5	1809.8	2443.6	3302.0	4652.5	6469.4	7097.5	7347.9
25°	948.5	995.7	1115.9	1416.4	2115.9	3107.4	4799.9	7137.6	7941.6	8107.5
27.5°	864.1	898.5	972.8	1188.9	1818.4	2927.1	4971.5	7878.6	8729.9	8977.4
30°	784.0	829.8	899.9	1055.8	1628.1	2762.6	5187.6	8479.5	9393.7	9624.0
32.5°	722.5	768.3	832.6	962.8	1466.4	2589.5	5316.3	9007.4	9935.9	10131.9
35°	672.4	711.0	778.3	888.4	1343.4	2457.9	5290.6	9426.6	10461.0	10661.3
37.5°	636.6	669.5	736.8	818.3	1250.4	2320.5	5277.7	9980.3	11100.5	11332.3
40°	603.7	638.1	699.6	772.6	1157.4	2158.9	5284.9	10529.7	11781.5	12013.2
42.5°	578.0	616.6	666.7	759.7	1061.5	2028.7	5284.9	11007.5	12373.8	12597.0
45°	556.5	598.0	646.7	758.2	985.7	1930.0	5249.1	11418.1	12845.9	13036.2
47.5°	537.9	583.7	653.8	732.5	967.1	1858.4	5217.6	11747.1	13230.7	13409.6
50°	525.1	579.4	695.3	702.5	972.8	1837.0	5369.3	12162.0	13569.8	13724.3
52.5°	515.0	580.8	693.9	658.1	962.8	1851.3	5685.4	12810.1	14040.5	14051.9
55°	495.0	579.4	658.1	608.0	921.3	1875.6	6091.7	13751.5	14777.3	14785.9
57.5°	475.0	563.7	610.9	565.1	836.9	1875.6	6581.0	14642.8	15665.7	15672.9
60°	454.9	586.6	536.5	527.9	726.8	1841.3	7097.5	15034.8	15944.7	16017.7
62.5°	434.9	590.9	479.3	495.0	646.7	1758.3	7482.3	14601.3	15567.0	15671.4
65°	412.0	476.4	442.1	460.7	605.2	1619.5	7360.7	13807.3	14857.4	14981.9
67.5°	384.8	403.4	402.0	424.9	590.9	1414.9	6719.8	12803.0	14093.4	14086.3
70°	351.9	362.0	366.2	390.6	563.7	1256.1	5599.6	11499.6	13073.4	13233.6
72.5°	317.6	326.2	330.5	351.9	536.5	1166.0	4346.3	9704.2	11323.7	11574.0
75°	280.4	286.1	291.9	310.5	507.9	1032.9	3095.9	7408.0	8672.7	9066.1
77.5°	241.8	241.8	248.9	267.5	427.8	852.7	2077.3	5196.2	5875.7	6277.7
80°	196.0	197.4	194.6	214.6	314.7	583.7	1180.3	3470.8	3910.0	3987.2
82.5°	150.2	145.9	147.4	157.4	234.6	397.7	629.5	2156.0	2197.5	2154.6
85°	94.4	94.4	91.6	103.0	150.2	207.4	343.4	1320.5	1031.5	981.4
87.5°	38.6	31.5	35.8	41.5	71.5	84.4	134.5	271.8	104.4	95.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)