

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: P455220

Luminaire Tested: **GALN-SA6B-827-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455220
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-SA6B-827-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 800mA 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: 21381 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

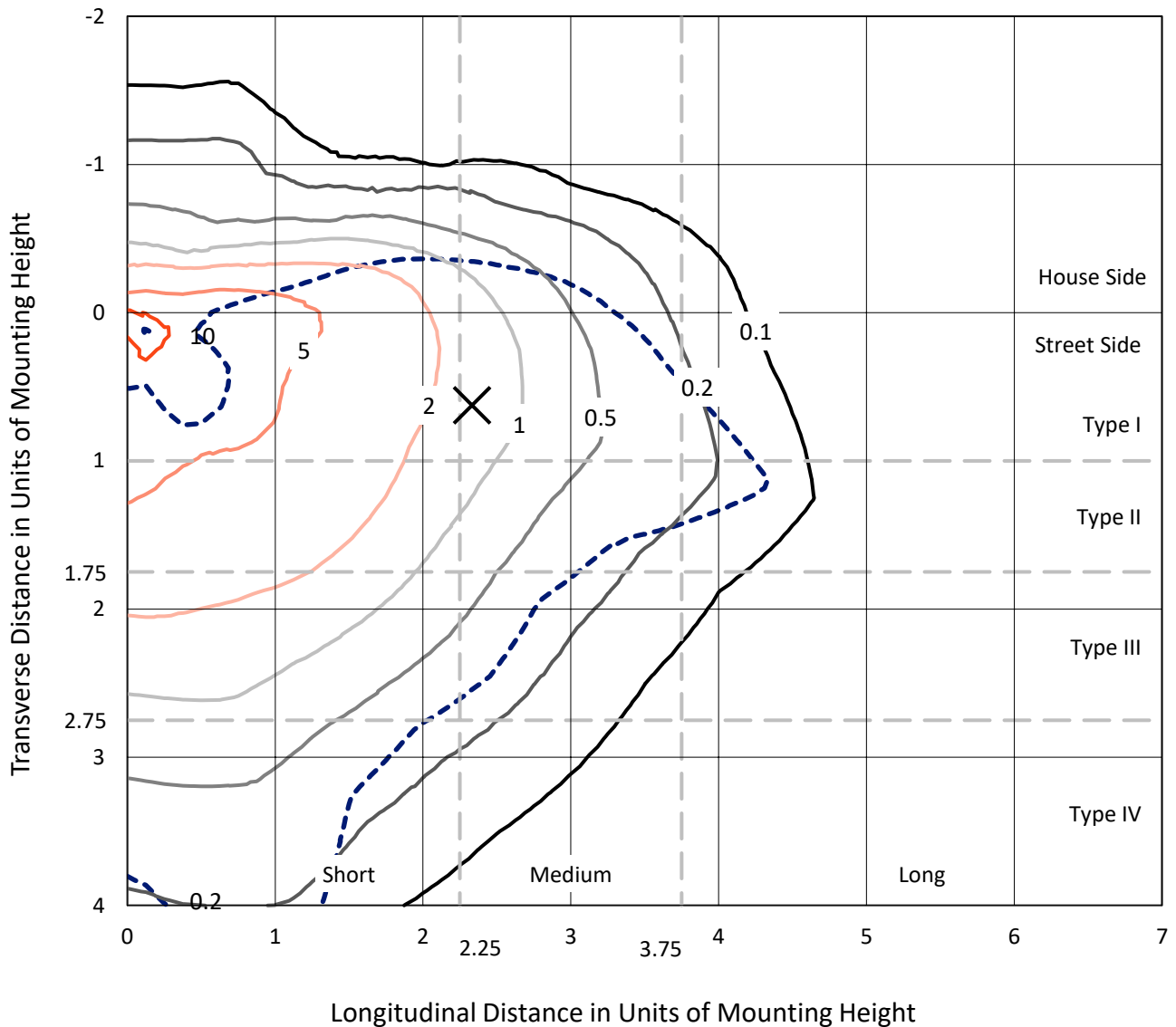
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P455220
 CATALOG NUMBER: GALN-SA6B-827-U-SLL

Iso-Footcandle Lines of Horizontal Illumination

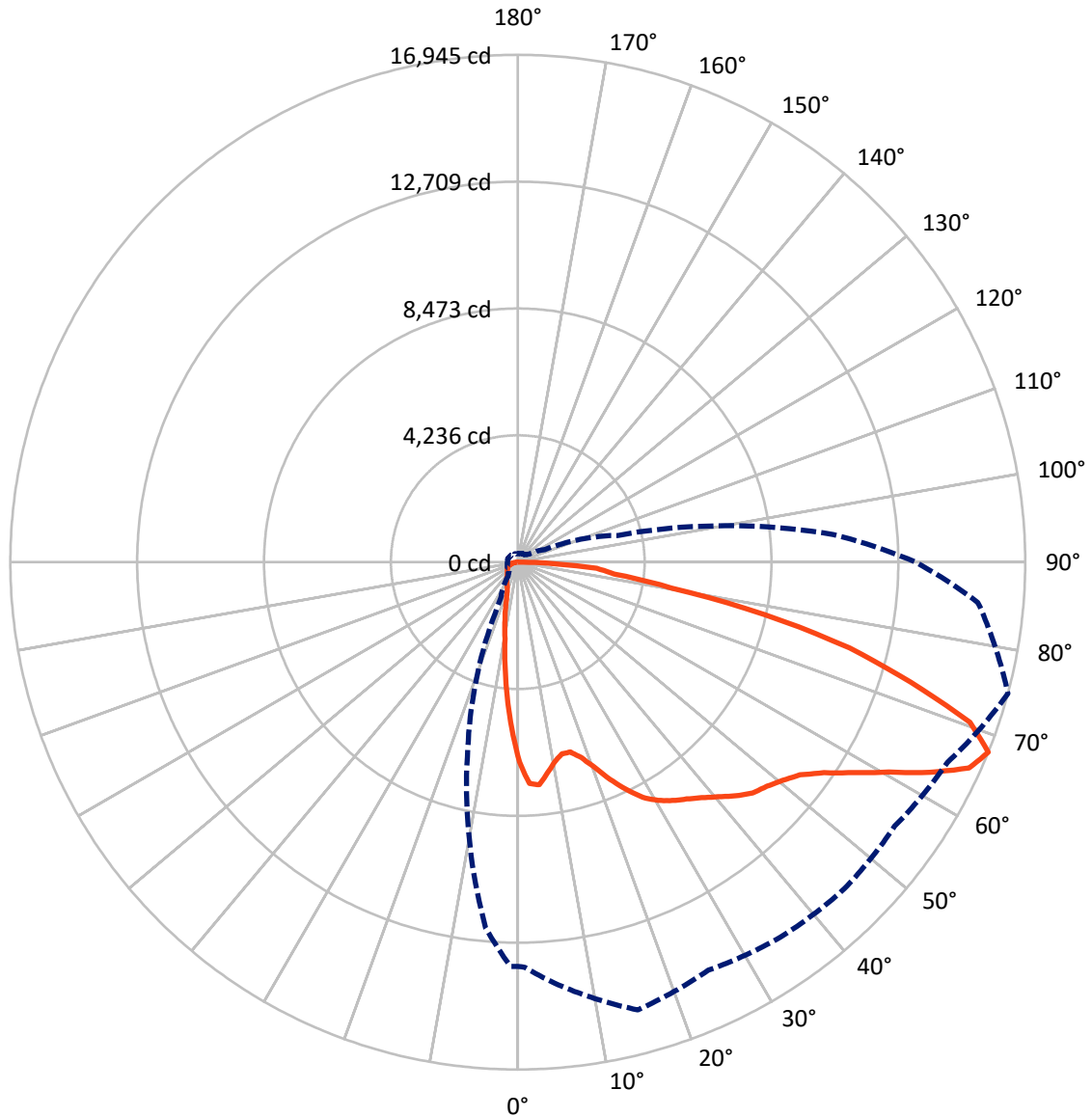
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
 Type III - Medium - N/A

REPORT NUMBER: P455220
CATALOG NUMBER: GALN-SA6B-827-U-SLL

Luminous Intensity Polar Plot



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

REPORT NUMBER: P455220

CATALOG NUMBER: GALN-SA6B-827-U-SLL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3613.8	0.0	3613.8
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	17767.2	0.0	17767.2
	% Fixture	83.1	0.0	83.1
Total	Lumens	21381.0	0.0	21381.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	506.7	2.4
10°-20°	1056.6	4.9
20°-30°	1520.5	7.1
30°-40°	2190.0	10.2
40°-50°	3076.3	14.4
50°-60°	4290.4	20.1
60°-70°	5101.0	23.9
70°-80°	3004.2	14.1
80°-90°	635.3	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°	21381.0	100.0
0°-180°	21381.0	100.0

Coefficient of Utilization



REPORT NUMBER: P455220

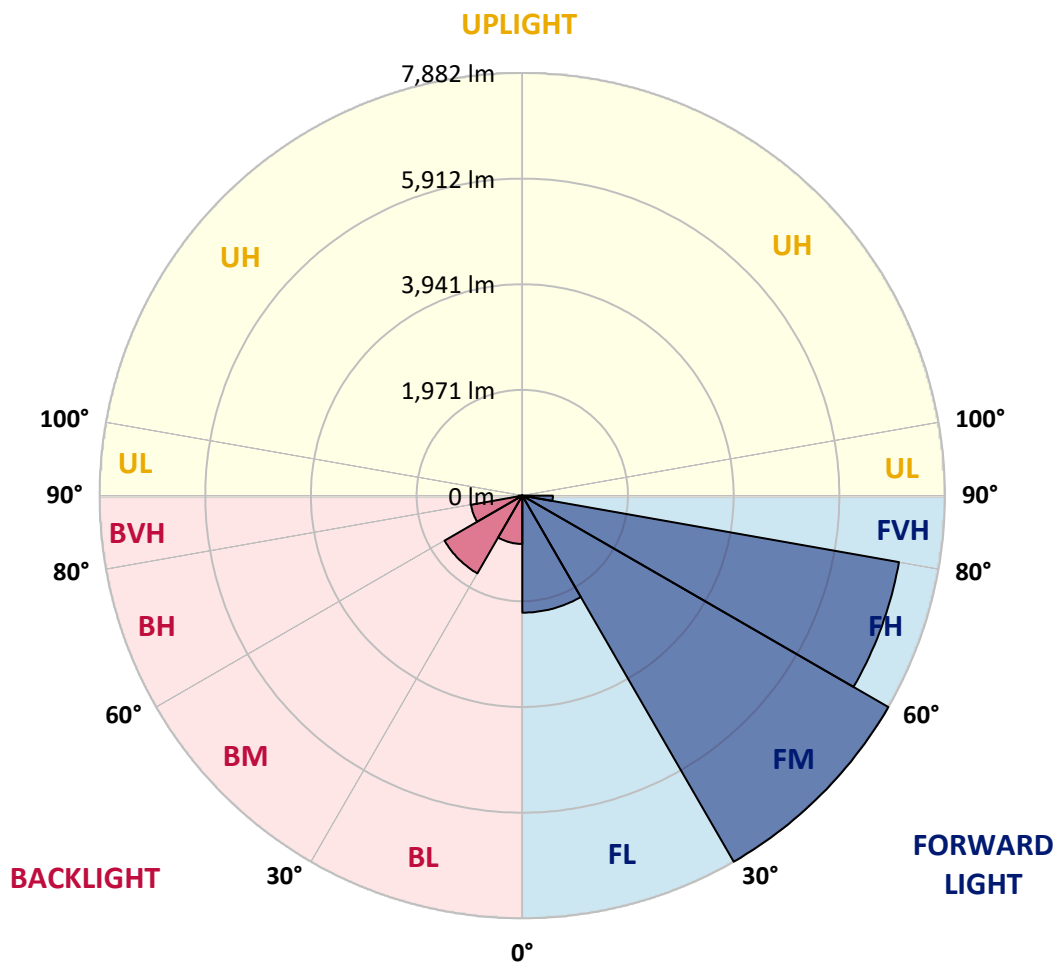
CATALOG NUMBER: GALN-SA6B-827-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2182.4	10.2			
FM	(30°-60°)	7882.4	36.9			
FH	(60°-80°)	7132.8	33.4			G3/7500
FVH	(80°-90°)	569.6	2.7			G4/750
BL	(0°-30°)	901.4	4.2	B2/1000		
BM	(30°-60°)	1674.3	7.8	B2/2500		
BH	(60°-80°)	972.4	4.5	B2/1000		G2/1000
BVH	(80°-90°)	65.7	0.3			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 III Medium





REPORT NUMBER: P455220

CATALOG NUMBER: GALN-SA6B-827-U-SLL

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6679.9	6679.9	6679.9	6679.9	6679.9	6679.9	6679.9	6679.9	6679.9	6679.9	6679.9
2.5°	7202.3	7211.9	7273.6	7453.2	7576.6	7621.9	7653.4	7594.4	7536.9	7397.0	7185.9
5°	7180.4	7236.6	7397.0	7800.1	8118.2	8255.3	8296.4	8119.6	7827.5	7468.3	7036.4
7.5°	6760.8	6836.2	7083.0	7759.0	8319.7	8640.6	8598.1	8278.6	7752.1	7111.8	6508.5
10°	6263.1	6346.8	6644.3	7461.4	8184.0	8625.5	8625.5	8236.1	7536.9	6775.9	6080.8
12.5°	5868.2	5956.0	6296.0	7155.7	7901.6	8319.7	8389.7	8055.1	7381.9	6563.4	5799.7
15°	5738.0	5823.0	6189.1	6970.6	7602.7	7857.7	7881.0	7771.3	7306.5	6578.5	5787.4
17.5°	5899.8	6009.5	6379.7	7025.4	7328.5	7343.5	7361.4	7447.7	7314.7	6854.1	6036.9
20°	6367.3	6485.2	6871.9	7202.3	7088.5	6932.2	6941.8	7163.9	7412.1	7309.3	6633.3
22.5°	7041.9	7144.7	7541.0	7513.6	6987.1	6664.8	6597.7	6907.5	7556.1	7876.9	7268.1
25°	7769.9	7890.6	8345.8	7975.6	7015.8	6505.8	6463.3	6756.7	7705.5	8407.5	8001.7
27.5°	8603.6	8721.5	9080.7	8441.8	7166.7	6493.5	6442.7	6743.0	7839.9	8898.3	8702.3
30°	9223.3	9331.6	9575.7	8833.9	7351.8	6575.7	6512.7	6851.3	7955.0	9234.3	9385.1
32.5°	9710.0	9822.5	9955.5	9078.0	7595.8	6725.2	6608.6	7048.8	8105.9	9490.7	9891.0
35°	10217.3	10350.3	10340.7	9294.6	7823.4	6897.9	6784.1	7333.9	8343.1	9714.1	10532.7
37.5°	10860.4	10913.8	10845.3	9489.3	8096.3	7209.2	7146.1	7757.6	8680.3	9984.2	11282.7
40°	11513.0	11620.0	11267.6	9725.1	8428.1	7794.6	7787.8	8384.2	9080.7	10301.0	12009.3
42.5°	12072.4	12162.9	11662.5	9930.8	8829.8	8509.0	8561.1	9224.7	9605.8	10668.4	12593.4
45°	12493.3	12574.2	12027.2	10129.6	9359.0	9334.4	9641.5	10125.5	10268.1	10998.9	12936.2
47.5°	12851.2	12929.3	12280.8	10431.2	10013.0	10320.2	10854.9	11064.7	10834.3	11188.1	13320.1
50°	13152.8	13176.1	12454.9	10790.4	10824.7	11528.1	12046.4	12182.1	11393.7	11459.5	13653.3
52.5°	13466.8	13436.6	12755.2	11242.9	11702.2	12674.3	13051.4	13192.6	11929.8	11794.1	14138.6
55°	14170.2	14199.0	13428.4	11813.3	12589.3	13800.0	14296.3	14160.6	12523.5	12409.7	14755.6
57.5°	15020.2	14995.6	14375.8	12705.9	13492.9	14847.5	15217.7	14999.7	13316.0	13255.7	15380.8
60°	15350.7	15383.6	15168.3	13665.6	14384.1	15764.7	16143.2	15804.5	14266.1	14238.7	15852.5
62.5°	15018.9	15204.0	15349.3	14519.8	15143.6	16439.3	16815.0	16428.4	15257.4	15456.3	16182.9
65°	14358.0	14397.8	14892.7	15243.7	15509.7	16550.4	16746.4	16540.8	16085.6	16565.5	16167.8
67.5°	13499.7	13534.0	14114.0	15480.9	15038.1	15289.0	15426.1	15365.8	15829.2	16945.3	15423.3
70°	12682.5	12655.1	13268.0	14876.3	13091.1	12710.0	12823.8	12634.6	13658.8	16017.0	13963.1
72.5°	11092.1	11190.8	11848.9	13195.3	10365.4	9745.7	9993.8	9504.4	10505.3	13717.7	11333.4
75°	8688.6	8711.9	9810.1	11074.3	7819.3	6841.7	7177.6	6973.3	8046.9	11443.1	7826.2
77.5°	6016.3	5964.2	7144.7	8458.2	5576.2	5008.6	5014.1	4916.7	5618.7	8425.3	5317.1
80°	3821.2	3741.7	4472.5	5225.2	3832.2	4099.5	3965.2	3961.1	3658.1	5197.8	3215.2
82.5°	2064.9	2152.6	2825.8	3275.5	2749.0	3168.6	2904.0	2819.0	2510.5	3253.6	2056.6
85°	940.6	1022.8	1506.8	2228.0	2088.2	2111.5	1410.8	1664.5	2077.2	2642.1	1098.2
87.5°	91.9	117.9	311.2	1051.6	713.0	562.1	209.8	404.5	522.4	939.2	87.7
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: P455220
 CATALOG NUMBER: GALN-SA6B-827-U-SLL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6679.9	6679.9	6679.9	6679.9	6679.9	6679.9	6679.9	6679.9	6679.9	6679.9	6679.9
2.5°	7099.5	7028.2	6785.5	6585.3	6372.8	6211.0	5999.9	5858.6	5761.3	5614.6	5596.8
5°	6773.2	6599.0	6176.7	5746.2	5374.7	5095.0	4811.1	4550.6	4397.1	4349.1	4287.4
7.5°	6223.4	5929.9	5387.0	4893.4	4467.0	4050.2	3729.4	3501.8	3349.6	3260.4	3153.5
10°	5770.9	5430.9	4770.0	4165.4	3814.4	3555.2	3272.8	3028.7	2840.9	2680.5	2592.7
12.5°	5466.5	5082.6	4339.5	3848.6	3577.2	3301.6	2971.1	2696.9	2420.0	2237.6	2159.5
15°	5374.7	4968.8	4206.5	3691.0	3301.6	2941.0	2570.8	2212.9	1938.7	1766.0	1708.4
17.5°	5599.5	5108.7	4205.1	3481.2	2978.0	2547.5	2073.1	1737.2	1456.1	1327.2	1286.1
20°	6019.1	5377.4	4217.5	3274.2	2627.0	2021.0	1508.2	1232.6	1098.2	1043.4	1022.8
22.5°	6604.5	5787.4	4254.5	3069.9	2243.1	1552.1	1129.8	989.9	941.9	932.3	928.2
25°	7325.7	6294.7	4379.2	2886.1	1919.5	1184.6	944.7	881.6	854.2	844.6	843.2
27.5°	7989.3	6950.0	4530.1	2728.5	1606.9	1021.5	854.2	800.7	773.3	771.9	774.7
30°	8588.5	7498.5	4656.2	2551.6	1369.7	907.7	795.2	741.8	715.7	714.3	722.6
32.5°	9106.8	7949.6	4749.4	2377.5	1238.1	837.7	741.8	684.2	662.2	658.1	662.2
35°	9660.7	8399.3	4706.9	2241.7	1162.7	780.1	702.0	645.8	619.7	607.4	607.4
37.5°	10292.7	8862.7	4634.3	2129.3	1128.4	732.2	667.7	612.9	586.8	574.5	573.1
40°	10982.4	9326.1	4534.2	2029.2	1094.1	703.4	644.4	586.8	555.3	543.0	540.2
42.5°	11591.2	9722.4	4451.9	1963.4	1037.9	708.9	623.8	567.6	527.9	511.4	510.0
45°	12120.4	10121.4	4436.8	1925.0	991.3	700.6	618.4	552.5	505.9	488.1	485.4
47.5°	12534.5	10536.8	4523.2	1903.1	940.6	656.8	654.0	543.0	486.7	467.5	464.8
50°	13039.0	11126.4	4720.6	1857.8	893.9	615.6	691.0	541.6	471.7	447.0	440.1
52.5°	13710.9	11894.2	4988.0	1776.9	826.8	577.2	659.5	541.6	453.8	429.1	420.9
55°	14726.8	12873.1	5249.9	1663.1	732.2	526.5	595.1	525.1	427.8	405.8	400.4
57.5°	15400.0	13588.8	5417.2	1505.5	614.2	489.5	512.8	499.1	401.7	378.4	378.4
60°	15434.3	13780.8	5337.6	1306.6	540.2	455.2	445.6	503.2	378.4	353.7	351.0
62.5°	15039.4	13310.5	4923.6	1128.4	500.4	418.2	403.1	441.5	355.1	330.4	326.3
65°	14422.5	12110.8	4205.1	1043.4	478.5	385.3	363.3	362.0	330.4	307.1	301.6
67.5°	13288.6	10583.4	3455.1	994.0	467.5	348.3	327.7	320.8	301.6	282.4	279.7
70°	11617.2	8864.1	2771.0	973.5	462.1	309.9	293.4	285.2	268.7	253.7	252.3
72.5°	9038.2	7190.0	2287.0	959.8	459.3	274.2	256.4	245.4	235.8	222.1	222.1
75°	6492.1	5289.6	1745.4	865.2	425.0	235.8	216.6	209.8	196.1	185.1	187.8
77.5°	4092.7	3562.1	1149.0	636.2	329.1	189.2	172.8	168.6	157.7	142.6	152.2
80°	2764.1	2505.0	670.5	400.4	207.0	138.5	133.0	131.6	119.3	102.8	104.2
82.5°	1881.1	1845.5	348.3	227.6	119.3	80.9	78.2	80.9	67.2	54.8	54.8
85°	734.9	1003.6	164.5	89.1	38.4	12.3	17.8	19.2	11.0	5.5	6.9
87.5°	13.7	102.8	4.1	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: P455220
 CATALOG NUMBER: GALN-SA6B-827-U-SLL

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	6679.9	6679.9	6679.9	6679.9	6679.9	6679.9	6679.9	6679.9	6679.9	6679.9	6679.9
2.5°	5569.4	5557.0	5577.6	5489.8	5507.7	5540.6	5557.0	5566.6	5702.3	5670.8	5757.2
5°	4345.0	4332.6	4412.2	4423.1	4464.3	4456.0	4495.8	4505.4	4554.7	4572.6	4693.2
7.5°	3160.4	3213.8	3304.3	3350.9	3420.9	3442.8	3422.2	3473.0	3370.1	3444.2	3466.1
10°	2539.3	2474.8	2436.4	2543.4	2557.1	2658.5	2617.4	2584.5	2644.8	2647.6	2705.2
12.5°	2114.2	1975.7	1883.9	1914.0	1946.9	1990.8	1997.7	2063.5	2107.4	2148.5	2182.8
15°	1657.6	1609.7	1526.0	1484.9	1531.5	1549.3	1591.8	1646.7	1693.3	1705.6	1752.2
17.5°	1272.4	1280.6	1266.9	1242.2	1271.0	1284.7	1287.4	1288.8	1301.2	1292.9	1361.5
20°	1024.2	1053.0	1087.3	1092.8	1102.4	1109.2	1096.9	1050.3	1051.6	1080.4	1102.4
22.5°	926.9	932.3	970.7	983.1	1013.2	1000.9	965.2	943.3	940.6	947.4	958.4
25°	850.1	858.3	885.7	904.9	928.2	906.3	880.2	859.7	856.9	863.8	874.8
27.5°	781.5	793.9	818.5	837.7	859.7	839.1	814.4	796.6	795.2	793.9	800.7
30°	726.7	740.4	758.2	780.1	795.2	777.4	754.1	744.5	743.1	740.4	743.1
32.5°	671.8	693.8	711.6	722.6	737.6	723.9	706.1	700.6	691.0	682.8	678.7
35°	610.1	633.4	660.9	674.6	689.7	675.9	663.6	640.3	623.8	622.5	625.2
37.5°	574.5	584.1	606.0	629.3	644.4	637.6	614.2	590.9	586.8	586.8	589.6
40°	543.0	547.1	556.7	586.8	614.2	593.7	564.9	558.0	558.0	556.7	558.0
42.5°	511.4	515.5	515.5	538.8	582.7	549.8	527.9	527.9	527.9	529.2	533.4
45°	482.6	484.0	482.6	499.1	540.2	512.8	497.7	501.8	504.6	507.3	510.0
47.5°	457.9	459.3	457.9	471.7	492.2	481.3	473.0	478.5	484.0	488.1	490.8
50°	436.0	434.6	437.4	445.6	455.2	457.9	452.5	460.7	463.4	468.9	475.8
52.5°	416.8	415.4	418.2	422.3	436.0	436.0	436.0	442.9	448.3	453.8	463.4
55°	394.9	396.2	400.4	405.8	423.7	420.9	422.3	427.8	433.3	441.5	447.0
57.5°	374.3	377.0	382.5	390.8	408.6	407.2	408.6	411.3	418.2	422.3	427.8
60°	351.0	356.5	363.3	368.8	386.6	385.3	392.1	397.6	401.7	401.7	404.5
62.5°	327.7	335.9	342.8	346.9	366.1	367.5	377.0	381.2	383.9	381.2	385.3
65°	304.4	316.7	319.5	324.9	344.1	345.5	356.5	366.1	363.3	360.6	367.5
67.5°	281.1	296.2	294.8	301.6	320.8	323.6	333.2	349.6	344.1	341.4	346.9
70°	255.0	266.0	267.4	271.5	297.5	293.4	308.5	323.6	319.5	320.8	320.8
72.5°	226.2	235.8	235.8	244.1	271.5	264.6	277.0	293.4	293.4	292.0	292.0
75°	192.0	197.4	202.9	215.3	244.1	235.8	244.1	259.1	261.9	259.1	259.1
77.5°	154.9	163.2	165.9	182.4	202.9	201.5	209.8	216.6	222.1	219.4	219.4
80°	109.7	117.9	128.9	146.7	159.0	163.2	167.3	172.8	175.5	175.5	178.2
82.5°	61.7	74.0	83.6	101.5	106.9	127.5	126.1	130.3	126.1	111.1	123.4
85°	13.7	26.1	37.0	46.6	53.5	74.0	78.2	87.7	72.7	67.2	67.2
87.5°	0.0	0.0	0.0	0.0	0.0	11.0	21.9	30.2	26.1	21.9	21.9
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: P455220
 CATALOG NUMBER: GALN-SA6B-827-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6679.9	6679.9	6679.9	6679.9	6679.9	6679.9	6679.9	6679.9	6679.9	6679.9
2.5°	5829.9	5949.1	6093.1	6341.3	6515.4	6703.2	6892.4	7094.0	7147.5	7202.3
5°	4726.1	4960.6	5088.1	5421.3	5770.9	6215.1	6578.5	6976.1	7142.0	7180.4
7.5°	3579.9	3739.0	4073.5	4410.8	4844.0	5310.2	5866.9	6486.6	6679.9	6760.8
10°	2838.1	3054.8	3348.2	3710.2	4089.9	4591.8	5219.7	5943.7	6217.9	6263.1
12.5°	2415.9	2657.2	2976.6	3359.2	3718.4	4096.8	4730.2	5477.5	5770.9	5868.2
15°	1931.9	2223.9	2592.7	2995.8	3386.6	3800.7	4442.3	5285.5	5624.2	5738.0
17.5°	1517.8	1753.6	2152.6	2590.0	3053.4	3577.2	4382.0	5377.4	5794.2	5899.8
20°	1161.3	1330.0	1665.9	2127.9	2670.9	3356.4	4397.1	5724.3	6223.4	6367.3
22.5°	1003.6	1090.0	1294.3	1734.4	2341.8	3164.5	4458.8	6200.1	6802.0	7041.9
25°	909.0	954.3	1069.4	1357.4	2027.8	2978.0	4600.0	6840.3	7610.9	7769.9
27.5°	828.1	861.0	932.3	1139.4	1742.7	2805.2	4764.5	7550.6	8366.4	8603.6
30°	751.4	795.2	862.4	1011.9	1560.3	2647.6	4971.6	8126.4	9002.5	9223.3
32.5°	692.4	736.3	798.0	922.7	1405.4	2481.7	5095.0	8632.4	9522.2	9710.0
35°	644.4	681.4	745.9	851.4	1287.4	2355.5	5070.3	9034.1	10025.4	10217.3
37.5°	610.1	641.7	706.1	784.3	1198.3	2223.9	5057.9	9564.7	10638.3	10860.4
40°	578.6	611.5	670.5	740.4	1109.2	2069.0	5064.8	10091.2	11290.9	11513.0
42.5°	553.9	590.9	638.9	728.0	1017.3	1944.2	5064.8	10549.1	11858.5	12072.4
45°	533.4	573.1	619.7	726.7	944.7	1849.6	5030.5	10942.6	12311.0	12493.3
47.5°	515.5	559.4	626.6	702.0	926.9	1781.0	5000.4	11258.0	12679.8	12851.2
50°	503.2	555.3	666.3	673.2	932.3	1760.5	5145.7	11655.6	13004.7	13152.8
52.5°	493.6	556.7	665.0	630.7	922.7	1774.2	5448.7	12276.7	13455.8	13466.8
55°	474.4	555.3	630.7	582.7	883.0	1797.5	5838.1	13178.9	14161.9	14170.2
57.5°	455.2	540.2	585.5	541.6	802.1	1797.5	6307.0	14033.1	15013.4	15020.2
60°	436.0	562.1	514.2	505.9	696.5	1764.6	6802.0	14408.7	15280.8	15350.7
62.5°	416.8	566.3	459.3	474.4	619.7	1685.1	7170.8	13993.3	14918.8	15018.9
65°	394.9	456.6	423.7	441.5	580.0	1552.1	7054.2	13232.3	14238.7	14358.0
67.5°	368.8	386.6	385.3	407.2	566.3	1356.0	6440.0	12269.8	13506.6	13499.7
70°	337.3	346.9	351.0	374.3	540.2	1203.8	5366.4	11020.8	12529.0	12682.5
72.5°	304.4	312.6	316.7	337.3	514.2	1117.4	4165.4	9300.1	10852.1	11092.1
75°	268.7	274.2	279.7	297.5	486.7	989.9	2967.0	7099.5	8311.5	8688.6
77.5°	231.7	231.7	238.6	256.4	410.0	817.2	1990.8	4979.8	5631.0	6016.3
80°	187.8	189.2	186.5	205.7	301.6	559.4	1131.1	3326.3	3747.2	3821.2
82.5°	144.0	139.9	141.2	150.8	224.9	381.2	603.3	2066.2	2106.0	2064.9
85°	90.5	90.5	87.7	98.7	144.0	198.8	329.1	1265.5	988.6	940.6
87.5°	37.0	30.2	34.3	39.8	68.6	80.9	128.9	260.5	100.1	91.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)