

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: P454294

Luminaire Tested: **GALN-SA5B-827-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454294
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-SA5B-827-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 800mA 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: 18057 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

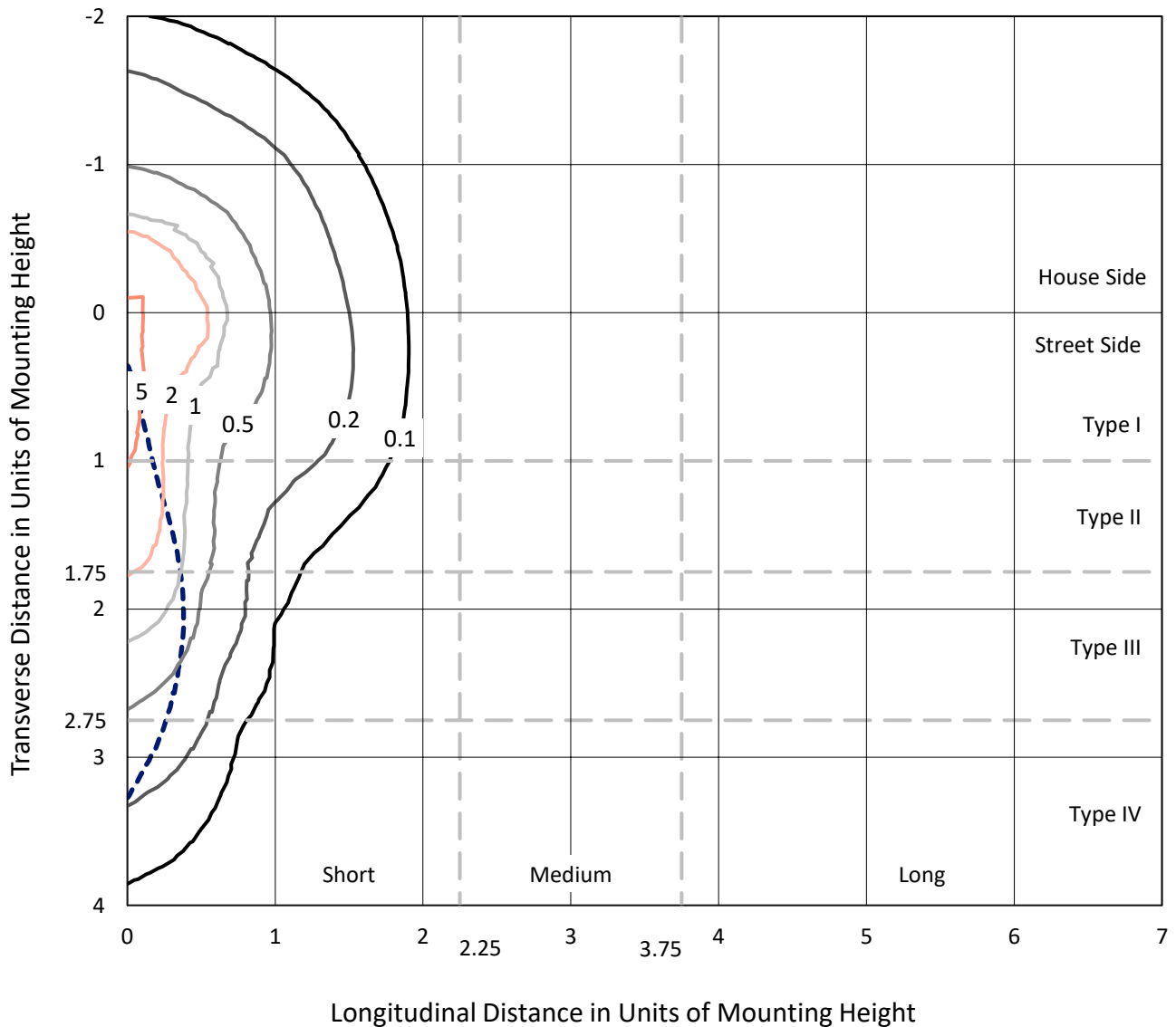
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P454294
 CATALOG NUMBER: GALN-SA5B-827-U-SLR

Iso-Footcandle Lines of Horizontal Illumination

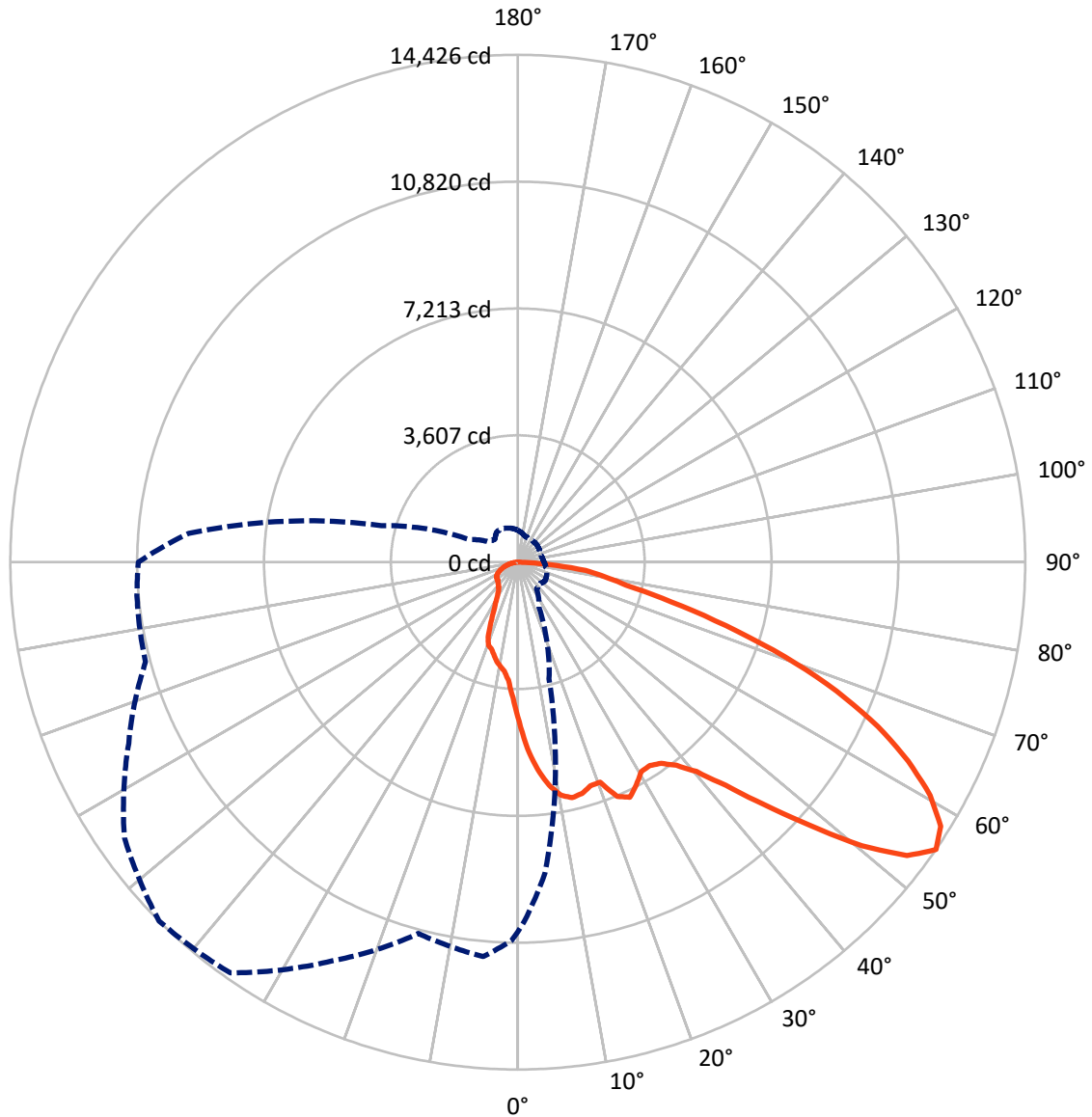
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P454294
CATALOG NUMBER: GALN-SA5B-827-U-SLR

Luminous Intensity Polar Plot



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

REPORT NUMBER: P454294

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3949.9	0.0	3949.9
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	14107.1	0.0	14107.1
	% Fixture	78.1	0.0	78.1
Total	Lumens	18057.0	0.0	18057.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.1	2.1
10°-20°	1018.9	5.6
20°-30°	1760.3	9.7
30°-40°	2045.7	11.3
40°-50°	2854.2	15.8
50°-60°	3872.8	21.4
60°-70°	3684.5	20.4
70°-80°	1990.5	11.0
80°-90°	446.1	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°	18057.0	100.0
0°-180°	18057.0	100.0

Coefficient of Utilization



REPORT NUMBER: P454294

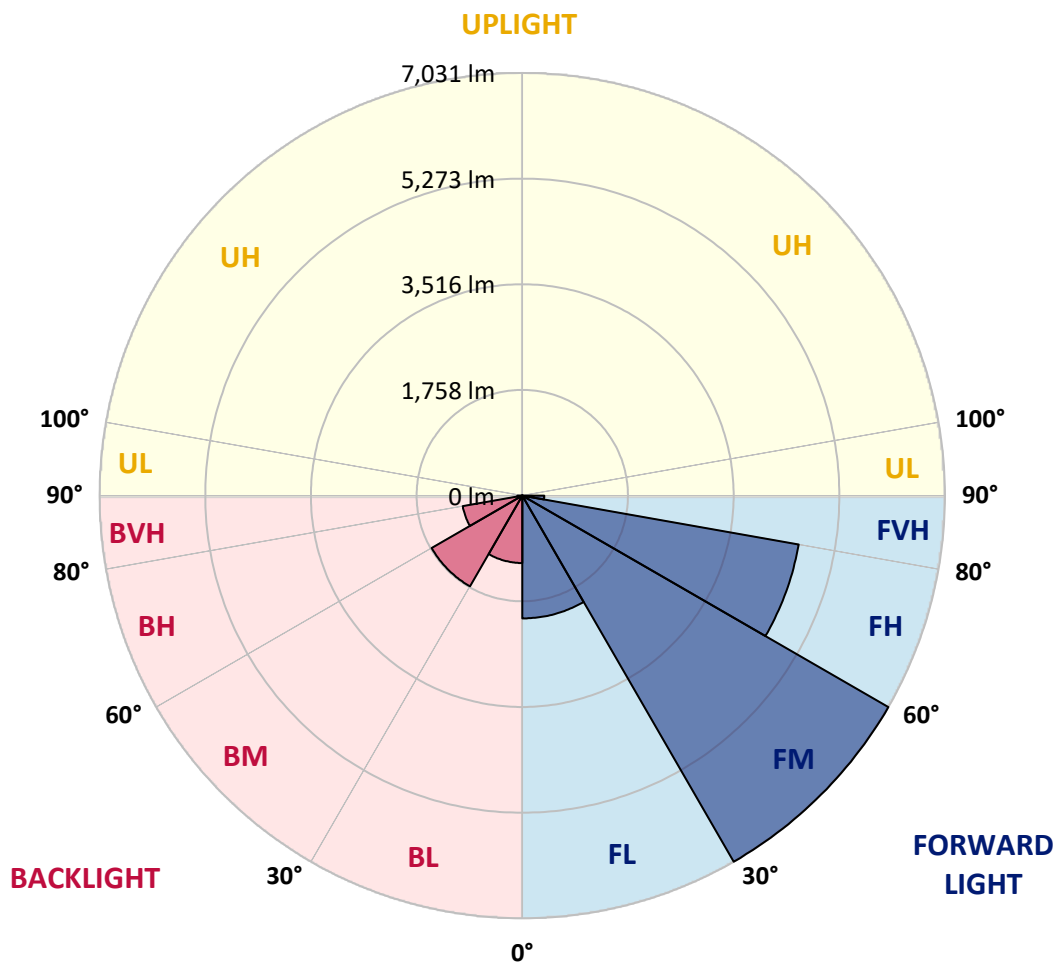
CATALOG NUMBER: GALN-SA5B-827-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2042.3	11.3			
FM	(30°-60°)	7031.0	38.9			
FH	(60°-80°)	4669.2	25.9			G2/5000
FVH	(80°-90°)	364.6	2.0			G3/500
BL	(0°-30°)	1121.0	6.2	B3/2500		
BM	(30°-60°)	1741.6	9.6	B2/2500		
BH	(60°-80°)	1005.7	5.6	B3/2500		G3/2500
BVH	(80°-90°)	81.5	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short





REPORT NUMBER: P454294

CATALOG NUMBER: GALN-SA5B-827-U-SLR

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6
2.5°	5034.3	5015.3	4961.7	4821.1	4679.3	4535.2	4424.4	4286.2	4142.1	4064.6	3965.7
5°	5103.4	5082.0	4955.7	4638.8	4351.7	4050.3	3809.7	3598.8	3513.1	3386.8	3285.5
7.5°	4941.4	4931.9	4742.5	4287.4	3894.3	3500.0	3227.2	3058.0	2904.3	2847.1	2859.1
10°	4793.7	4755.6	4518.5	3924.1	3465.4	3145.0	2949.6	2784.0	2675.6	2647.0	2653.0
12.5°	4671.0	4619.8	4339.8	3679.8	3278.4	3022.3	2773.3	2600.5	2501.7	2529.1	2622.0
15°	4646.0	4576.9	4264.8	3596.5	3175.9	2846.0	2573.1	2374.2	2300.3	2359.9	2508.8
17.5°	4808.0	4721.0	4393.4	3623.9	3078.2	2666.1	2331.3	2103.8	2041.8	2137.1	2331.3
20°	5328.6	5199.9	4794.9	3782.3	3068.7	2576.7	2190.8	1962.0	1988.2	2169.3	2371.8
22.5°	6291.1	6098.1	5497.7	4013.4	3118.8	2554.1	2162.2	2043.0	2187.2	2340.9	2474.3
25°	6481.7	6330.4	5624.0	4065.8	3108.0	2538.6	2243.2	2302.7	2463.6	2539.8	2493.3
27.5°	6588.9	6416.2	5615.7	3806.1	2779.2	2302.7	2144.3	2243.2	2283.7	2209.8	2083.5
30°	6839.1	6659.2	5757.4	3533.3	2288.4	1708.3	1497.4	1456.9	1484.3	1498.6	1453.4
32.5°	7183.4	7005.9	6024.3	3354.6	1978.7	1412.8	1205.6	1148.4	1135.3	1119.8	1101.9
35°	7628.9	7356.1	6286.3	3240.3	1851.2	1306.8	1116.2	1072.1	1054.3	1032.8	1013.8
37.5°	8081.6	7795.7	6617.5	3119.9	1766.7	1233.0	1056.7	1036.4	1005.4	982.8	955.4
40°	8562.9	8242.4	6918.9	3015.1	1684.5	1185.3	1013.8	1011.4	970.9	944.7	912.5
42.5°	8979.8	8649.8	7188.1	2950.8	1621.3	1135.3	987.6	994.7	953.0	913.7	872.0
45°	9311.0	8987.0	7437.1	2950.8	1570.1	1085.2	982.8	978.0	936.3	887.5	839.8
47.5°	9601.7	9266.9	7680.1	3025.8	1537.9	1043.6	956.6	964.9	922.0	860.1	813.6
50°	9826.8	9531.4	8007.7	3142.6	1505.8	1010.2	923.2	968.5	910.1	845.8	792.2
52.5°	10113.9	9849.4	8402.0	3302.2	1478.4	973.3	893.5	968.5	908.9	847.0	788.6
55°	10511.8	10233.0	8877.4	3434.4	1434.3	938.7	867.2	941.1	905.4	841.0	779.1
57.5°	10790.5	10582.1	9213.3	3522.6	1371.2	894.6	843.4	914.9	889.9	818.4	750.5
58°	10803.7	10599.9	9262.1	3542.8	1355.7	886.3	837.5	903.0	882.7	808.9	741.0
60°	10653.6	10478.4	9271.7	3514.3	1267.5	844.6	806.5	854.1	844.6	752.9	689.7
62.5°	10107.9	9920.9	8886.9	3282.0	1150.8	793.4	758.8	788.6	767.2	674.3	615.9
65°	9332.4	8988.2	8095.9	2917.4	1067.4	738.6	694.5	696.9	674.3	607.5	556.3
67.5°	8299.6	7914.8	6854.6	2458.8	1004.2	677.8	618.3	612.3	584.9	542.0	500.3
70°	7028.5	6765.2	5570.4	2000.1	934.0	611.1	532.5	528.9	512.2	480.1	443.2
72.5°	5696.7	5361.9	4498.2	1601.1	848.2	546.8	452.7	459.8	438.4	415.8	382.4
75°	4204.0	3984.8	3477.3	1284.2	732.6	476.5	377.6	380.0	370.5	346.7	320.5
77.5°	2768.5	2703.0	2487.4	843.4	563.5	378.8	308.5	310.9	303.8	282.3	254.9
80°	1863.2	1819.1	1685.7	543.2	376.4	274.0	238.3	240.6	239.4	216.8	179.9
82.5°	1148.4	1129.3	1086.4	366.9	260.9	196.6	157.2	164.4	177.5	152.5	122.7
85°	542.0	543.2	656.4	200.1	153.7	126.3	85.8	91.7	91.7	91.7	69.1
87.5°	70.3	73.9	90.5	84.6	56.0	47.7	31.0	26.2	22.6	29.8	21.4
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: P454294

CATALOG NUMBER: GALN-SA5B-827-U-SLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6
2.5°	3931.2	3907.4	3856.1	3844.2	3837.1	3857.3	3803.7	3818.0	3794.2	3860.9	3850.2
5°	3291.5	3293.9	3335.6	3363.0	3372.5	3363.0	3327.2	3265.3	3217.6	3198.6	3203.3
7.5°	2836.4	2878.1	2949.6	3029.4	3102.1	3123.5	3103.3	2985.3	2856.7	2775.7	2749.5
10°	2685.1	2741.1	2823.3	2886.5	2950.8	3002.0	3012.7	2921.0	2768.5	2576.7	2501.7
12.5°	2693.5	2769.7	2848.3	2868.6	2862.6	2882.9	2873.3	2857.9	2757.8	2513.6	2388.5
15°	2614.8	2705.4	2760.2	2749.5	2730.4	2712.5	2687.5	2648.2	2612.5	2440.9	2302.7
17.5°	2433.8	2526.7	2572.0	2575.5	2575.5	2570.8	2510.0	2495.7	2491.0	2407.6	2323.0
20°	2467.1	2518.4	2498.1	2464.7	2474.3	2506.4	2470.7	2463.6	2491.0	2527.9	2512.4
22.5°	2486.2	2468.3	2315.8	2168.1	2134.8	2234.8	2255.1	2334.9	2445.7	2579.1	2666.1
25°	2368.3	2224.1	1951.3	1784.5	1690.4	1783.3	1904.8	2052.6	2218.1	2389.7	2491.0
27.5°	1979.9	1870.3	1674.9	1524.8	1442.6	1456.9	1560.6	1695.2	1848.9	1964.4	2038.3
30°	1491.5	1442.6	1341.4	1290.1	1240.1	1228.2	1272.3	1323.5	1391.4	1405.7	1424.8
32.5°	1098.4	1091.2	1097.2	1080.5	1071.0	1069.8	1056.7	1068.6	1075.7	1084.1	1067.4
35°	993.5	984.0	967.3	962.5	956.6	959.0	953.0	947.1	951.8	959.0	963.7
37.5°	939.9	925.6	901.8	893.5	893.5	897.0	887.5	885.1	893.5	916.1	928.0
40°	898.2	881.5	854.1	843.4	850.6	860.1	847.0	842.2	862.5	886.3	905.4
42.5°	858.9	845.8	819.6	807.7	813.6	831.5	812.4	808.9	835.1	861.3	883.9
45°	825.6	812.4	788.6	782.7	785.0	801.7	788.6	788.6	813.6	842.2	862.5
47.5°	799.3	782.7	767.2	762.4	764.8	774.3	771.9	771.9	795.8	825.6	845.8
50°	773.1	758.8	738.6	741.0	746.9	760.0	758.8	762.4	786.2	823.2	844.6
52.5°	761.2	739.8	717.1	719.5	737.4	752.9	748.1	751.7	779.1	848.2	879.2
55°	748.1	719.5	693.3	696.9	717.1	739.8	733.8	738.6	770.8	864.9	907.7
57.5°	723.1	689.7	661.2	663.5	693.3	717.1	707.6	713.6	751.7	847.0	892.3
58°	712.4	683.8	656.4	657.6	686.2	712.4	701.7	706.4	745.7	842.2	885.1
60°	667.1	650.4	626.6	627.8	655.2	677.8	671.9	676.6	714.8	807.7	839.8
62.5°	605.2	595.6	589.7	589.7	606.4	627.8	633.8	639.7	674.3	730.3	758.8
65°	538.5	538.5	539.6	539.6	550.4	577.8	581.3	596.8	629.0	656.4	677.8
67.5°	493.2	490.8	493.2	487.2	492.0	508.7	526.5	540.8	574.2	593.3	600.4
70°	434.8	433.6	434.8	426.5	432.4	446.7	458.6	482.5	517.0	531.3	534.9
72.5°	377.6	377.6	380.0	374.1	374.1	389.5	397.9	424.1	456.3	464.6	465.8
75°	318.1	321.6	321.6	313.3	315.7	325.2	335.9	357.4	387.2	393.1	393.1
77.5°	252.5	265.7	265.7	257.3	260.9	262.1	276.4	287.1	309.7	312.1	302.6
80°	183.5	196.6	207.3	200.1	206.1	198.9	207.3	214.4	237.1	226.3	210.9
82.5°	131.0	140.6	148.9	150.1	144.1	131.0	141.8	143.0	153.7	139.4	131.0
85°	72.7	81.0	91.7	87.0	77.4	69.1	72.7	75.1	73.9	70.3	65.5
87.5°	19.1	20.3	22.6	16.7	15.5	13.1	17.9	17.9	20.3	21.4	20.3
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: P454294
 CATALOG NUMBER: GALN-SA5B-827-U-SLR

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6
2.5°	3858.5	3910.9	4024.1	4109.9	4214.7	4342.2	4492.3	4643.6	4806.8	4858.0	4929.5
5°	3192.6	3323.7	3378.4	3534.5	3689.4	3921.7	4169.5	4456.6	4771.0	4922.3	5067.7
7.5°	2728.0	2798.3	2855.5	2969.8	3155.7	3438.0	3748.9	4107.5	4553.0	4773.4	4986.7
10°	2477.8	2485.0	2555.3	2697.0	2859.1	3108.0	3402.3	3803.7	4300.5	4568.5	4818.7
12.5°	2312.3	2281.3	2357.5	2505.2	2688.7	2918.6	3189.0	3571.4	4118.2	4393.4	4696.0
15°	2166.9	2118.1	2175.3	2326.6	2507.6	2778.0	3068.7	3473.8	4046.8	4367.2	4703.1
17.5°	2170.5	2035.9	2056.1	2183.6	2363.5	2638.7	2991.3	3470.2	4155.2	4524.5	4922.3
20°	2438.5	2222.9	2131.2	2155.0	2328.9	2629.1	3027.0	3637.0	4511.4	5049.8	5475.1
22.5°	2701.8	2572.0	2424.2	2375.4	2470.7	2785.2	3254.6	4031.3	5285.7	6096.9	6865.3
25°	2610.1	2720.9	2683.9	2614.8	2636.3	2897.2	3409.4	4355.3	5887.3	6801.0	7522.9
27.5°	2088.3	2289.6	2330.1	2328.9	2337.3	2551.7	3066.3	4137.3	5962.3	6935.6	7625.3
30°	1467.6	1485.5	1507.0	1548.7	1586.8	1778.6	2399.2	3632.2	5929.0	6996.3	7687.3
32.5°	1059.0	1082.9	1112.6	1169.8	1260.4	1504.6	2099.0	3471.4	6105.3	7247.7	7868.4
35°	968.5	995.9	1024.5	1090.0	1175.8	1402.1	1979.9	3404.7	6394.8	7655.1	8193.6
37.5°	939.9	970.9	995.9	1043.6	1112.6	1328.3	1871.5	3359.4	6691.4	8086.4	8629.6
40°	919.7	955.4	975.7	1013.8	1061.4	1260.4	1775.0	3323.7	6978.5	8480.7	8979.8
42.5°	901.8	938.7	964.9	992.3	1031.6	1199.6	1689.2	3287.9	7227.5	8863.1	9328.9
45°	880.4	926.8	960.2	981.6	1016.2	1148.4	1623.7	3259.3	7511.0	9202.6	9681.5
47.5°	862.5	913.7	955.4	980.4	993.5	1112.6	1571.3	3298.6	7851.7	9557.6	10009.1
50°	863.7	912.5	964.9	1004.2	969.7	1082.9	1539.1	3454.7	8294.8	9979.3	10267.6
52.5°	901.8	961.4	1003.1	1012.6	936.3	1047.1	1522.4	3727.5	8819.0	10352.2	10528.5
55°	944.7	1006.6	1051.9	1045.9	918.5	1001.9	1518.9	4018.2	9393.2	10787.0	10868.0
57.5°	929.2	1019.7	1088.8	1057.9	919.7	957.8	1503.4	4252.8	9873.3	11112.2	11203.9
58°	924.4	1015.0	1093.6	1055.5	916.1	944.7	1499.8	4273.1	9940.0	11134.8	11251.6
60°	878.0	973.3	1090.0	1037.6	895.8	908.9	1460.5	4338.6	9922.1	11018.1	11280.2
62.5°	793.4	872.0	1007.8	950.6	833.9	861.3	1372.3	4257.6	9438.5	10455.8	10862.0
65°	698.1	756.5	847.0	836.3	745.7	812.4	1252.0	3937.2	8469.9	9543.3	9971.0
67.5°	626.6	674.3	731.4	716.0	670.7	746.9	1122.2	3395.1	7383.5	8447.3	8985.8
70°	553.9	590.9	619.5	608.7	594.4	682.6	1006.6	2755.4	6342.3	7406.1	7927.9
72.5°	480.1	514.6	538.5	523.0	514.6	614.7	912.5	2138.3	5009.3	6110.0	6780.7
75°	401.5	436.0	452.7	434.8	430.0	542.0	773.1	1597.5	3758.5	4710.3	5289.3
77.5°	310.9	347.9	369.3	363.3	365.7	445.5	624.2	1093.6	2687.5	3210.5	3820.4
80°	218.0	258.5	272.8	266.8	283.5	339.5	440.8	694.5	1853.6	2083.5	2513.6
82.5°	134.6	172.7	175.1	181.1	193.0	251.4	332.4	422.9	1163.9	1203.2	1515.3
85°	67.9	82.2	88.2	97.7	108.4	153.7	189.4	262.1	749.3	567.0	847.0
87.5°	22.6	23.8	28.6	35.7	44.1	63.1	81.0	107.2	185.8	102.4	262.1
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: P454294

CATALOG NUMBER: GALN-SA5B-827-U-SLR

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6
2.5°	5073.6	5174.9	5248.7	5316.7	5251.1	5245.2	5180.8	5077.2	5034.3	5034.3
5°	5372.6	5609.7	5801.5	5924.2	5871.8	5745.5	5537.0	5271.4	5128.4	5103.4
7.5°	5454.8	5923.0	6279.2	6405.5	6317.3	6038.6	5639.5	5191.6	4986.7	4941.4
10°	5404.8	6013.5	6536.5	6736.6	6613.9	6192.2	5647.8	5098.6	4846.1	4793.7
12.5°	5352.4	6025.5	6584.2	6873.6	6793.8	6316.1	5708.6	5037.9	4746.0	4671.0
15°	5390.5	6030.2	6525.8	6824.8	6876.0	6465.0	5808.6	5082.0	4725.8	4646.0
17.5°	5631.1	6120.8	6442.4	6684.2	6864.1	6667.6	6093.4	5292.8	4906.9	4808.0
20°	6133.9	6337.6	6490.1	6677.1	6966.6	7080.9	6675.9	5871.8	5415.5	5328.6
22.5°	7589.6	7552.7	7240.6	7237.0	7656.3	8115.0	8087.6	7048.8	6362.6	6291.1
25°	8135.2	7963.7	7512.2	7402.6	7587.2	8294.8	8192.4	7289.4	6655.6	6481.7
27.5°	7922.0	7496.7	7200.1	7175.0	7114.3	7782.6	8029.2	7387.1	6758.1	6588.9
30°	7908.9	7283.4	6859.3	6909.4	6967.8	7606.3	8119.7	7693.2	7020.2	6839.1
32.5°	7941.0	7313.2	6884.4	6893.9	7067.8	7632.5	8219.8	8026.8	7364.4	7183.4
35°	8070.9	7482.4	7044.0	7021.4	7293.0	7804.0	8390.1	8551.0	7835.0	7628.9
37.5°	8280.5	7819.5	7335.9	7329.9	7724.2	8113.8	8602.2	9079.9	8303.2	8081.6
40°	8589.1	8213.8	7855.3	7823.1	8310.3	8617.7	8877.4	9643.4	8847.6	8562.9
42.5°	8961.9	8686.8	8540.2	8667.7	9135.9	9183.5	9306.2	10163.9	9311.0	8979.8
45°	9307.4	9294.3	9498.0	9836.3	10109.1	9823.2	9754.1	10513.0	9670.8	9311.0
47.5°	9718.4	10073.4	10688.1	11183.7	11469.6	10567.8	10136.5	10740.5	9932.8	9601.7
50°	10135.3	11006.2	11987.8	12678.7	12739.5	11376.7	10399.8	10954.9	10171.1	9826.8
52.5°	10573.7	11750.7	13057.5	13860.5	13742.5	12080.7	10654.7	11100.3	10416.5	10113.9
55°	10954.9	12207.0	13655.6	14426.3	14253.6	12509.6	10929.9	11257.5	10766.7	10511.8
57.5°	11168.2	12245.1	13506.7	14179.7	13992.7	12426.2	11056.2	11374.3	10990.7	10790.5
58°	11199.2	12193.9	13374.4	14036.8	13846.2	12355.9	11055.0	11369.5	11005.0	10803.7
60°	11171.8	11861.5	12882.4	13472.1	13272.0	11915.1	11009.7	11280.2	10823.9	10653.6
62.5°	10918.0	11284.9	12033.0	12461.9	12404.7	11226.6	10823.9	10943.0	10272.3	10107.9
65°	10584.5	10498.7	10945.4	11249.2	11292.1	10710.7	10639.3	10214.0	9564.7	9332.4
67.5°	10179.4	9607.6	9606.4	9779.2	9850.6	9917.3	10254.5	9421.8	8545.0	8299.6
70°	9492.1	8234.1	7855.3	8059.0	7999.4	8562.9	9567.1	8309.1	7315.6	7028.5
72.5°	8231.7	6534.1	5927.8	6189.9	6039.8	6715.2	8371.1	6837.9	6049.3	5696.7
75°	6672.3	4887.8	4262.4	4503.0	4410.1	5093.9	6965.4	4966.4	4338.6	4204.0
77.5°	5180.8	3541.7	3178.3	3145.0	3214.1	3790.6	5109.4	3353.4	2860.2	2768.5
80°	3328.4	2535.0	2556.5	2513.6	2549.3	2389.7	3102.1	2139.5	1937.0	1863.2
82.5°	2190.8	1766.7	2106.2	1944.2	1846.5	1607.0	2034.7	1400.9	1188.9	1148.4
85°	1492.7	1300.9	1184.1	905.4	1066.2	1237.7	1526.0	754.1	598.0	542.0
87.5°	674.3	452.7	332.4	204.9	324.0	374.1	741.0	88.2	67.9	70.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)