

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: P454323

Luminaire Tested: **GALN-SA5B-830-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454323
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-830-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 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: 19519 lumens
Efficiency: N/A
Efficacy: 95.7 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



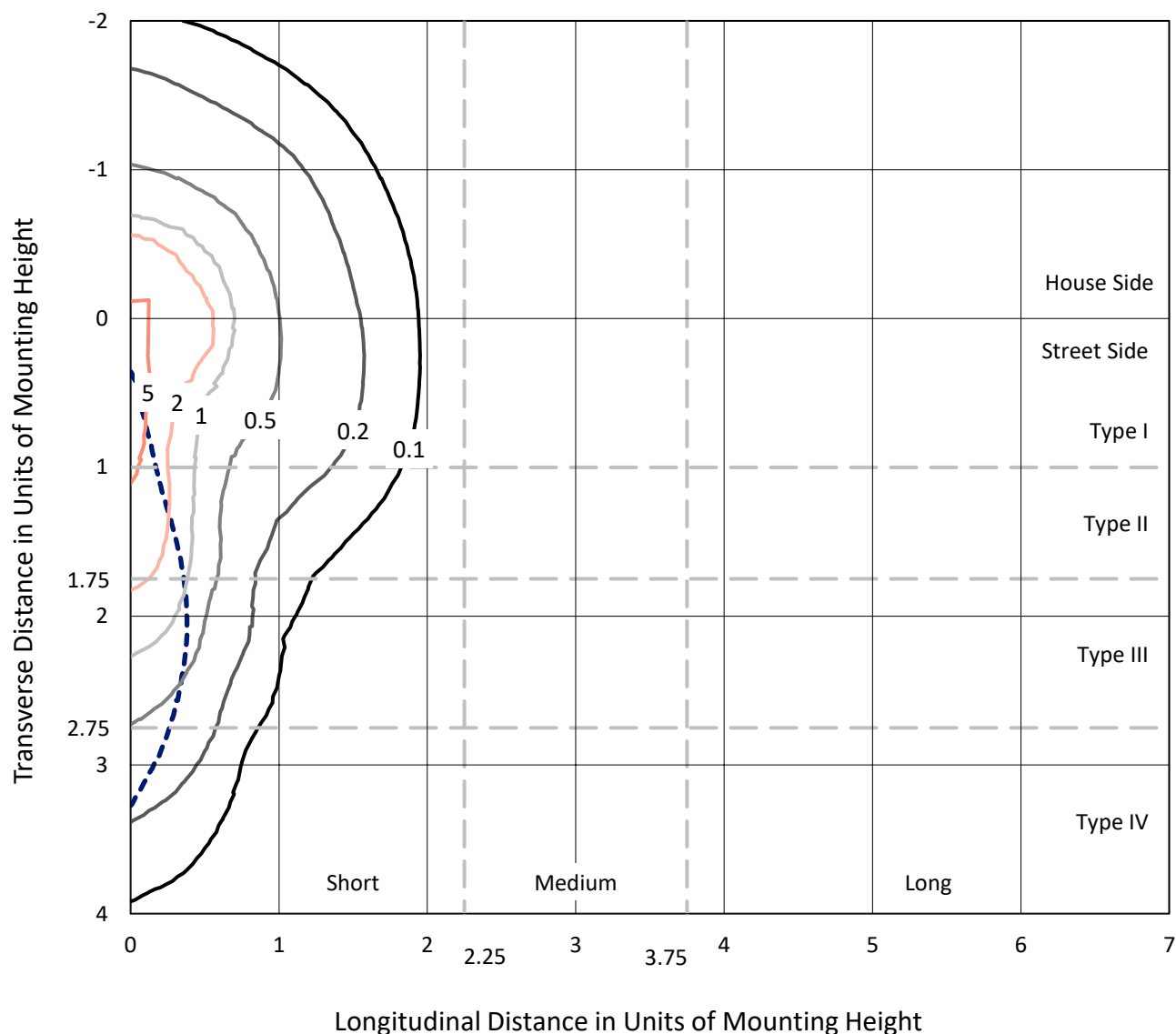
REPORT NUMBER: P454323

CATALOG NUMBER: GALN-SA5B-830-U-SLR

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



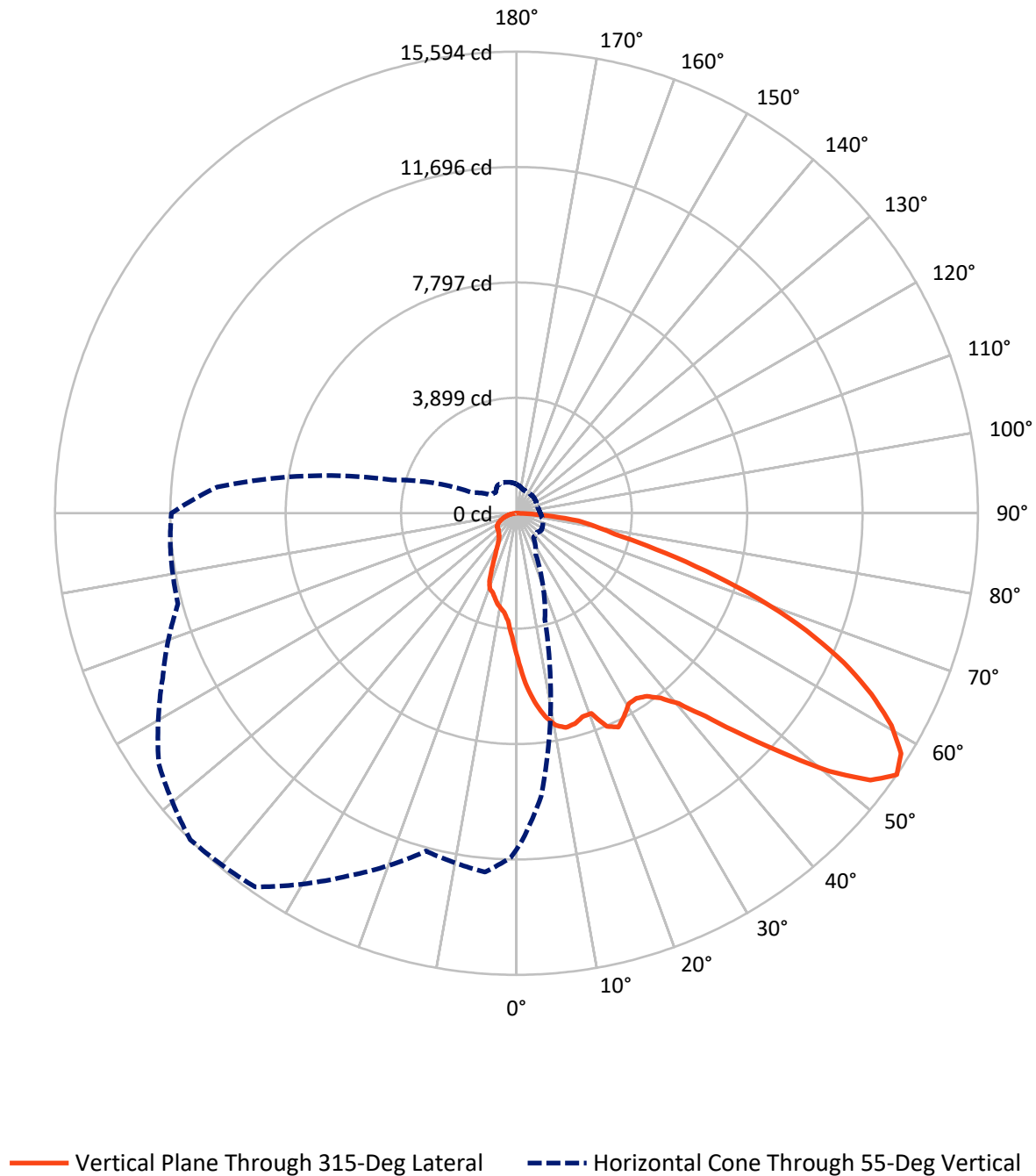
Based on 25 foot mounting height. Maximum calculated value = 8.4 fc

Type IV - Short - N/A

REPORT NUMBER: P454323

CATALOG NUMBER: GALN-SA5B-830-U-SLR

Luminous Intensity Polar Plot



REPORT NUMBER: P454323

CATALOG NUMBER: GALN-SA5B-830-U-SLR

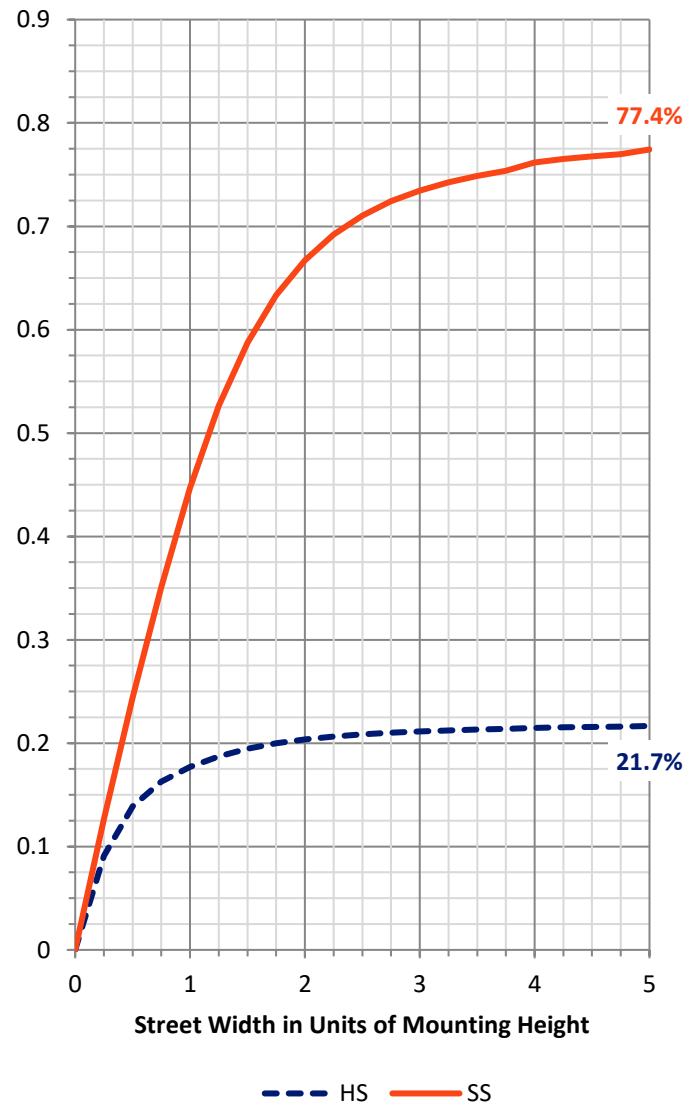
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4269.7	0.0	4269.7
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	15249.3	0.0	15249.3
	% Fixture	78.1	0.0	78.1
Total	Lumens	19519.0	0.0	19519.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	415.2	2.1
10°-20°	1101.4	5.6
20°-30°	1902.8	9.7
30°-40°	2211.3	11.3
40°-50°	3085.3	15.8
50°-60°	4186.4	21.4
60°-70°	3982.8	20.4
70°-80°	2151.6	11.0
80°-90°	482.2	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°	19519.0	100.0
0°-180°	19519.0	100.0

Coefficient of Utilization



REPORT NUMBER: P454323

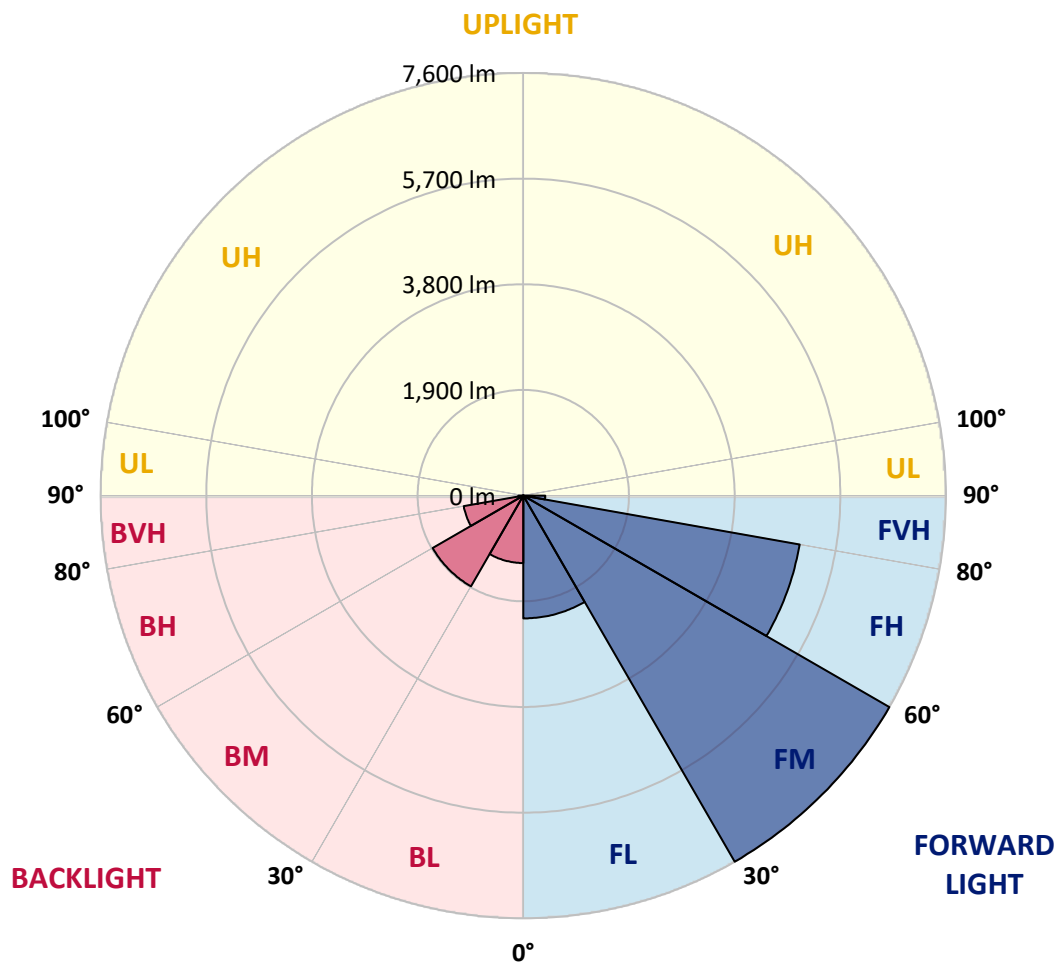
CATALOG NUMBER: GALN-SA5B-830-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2207.6	11.3			
FM	(30°-60°)	7600.3	38.9			
FH	(60°-80°)	5047.3	25.9			G3/7500
FVH	(80°-90°)	394.1	2.0			G3/500
BL	(0°-30°)	1211.7	6.2	B3/2500		
BM	(30°-60°)	1882.7	9.6	B2/2500		
BH	(60°-80°)	1087.2	5.6	B3/2500		G3/2500
BVH	(80°-90°)	88.1	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: P454323

CATALOG NUMBER: GALN-SA5B-830-U-SLR

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4898.5	4898.5	4898.5	4898.5	4898.5	4898.5	4898.5	4898.5	4898.5	4898.5	4898.5
2.5°	5441.9	5421.3	5363.4	5211.4	5058.2	4902.4	4782.6	4633.2	4477.4	4393.7	4286.8
5°	5516.6	5493.4	5356.9	5014.4	4704.1	4378.3	4118.1	3890.2	3797.5	3661.0	3551.5
7.5°	5341.5	5331.2	5126.4	4634.5	4209.6	3783.3	3488.4	3305.6	3139.5	3077.7	3090.5
10°	5181.8	5140.6	4884.3	4241.8	3746.0	3399.6	3188.4	3009.4	2892.2	2861.3	2867.8
12.5°	5049.2	4993.8	4691.2	3977.8	3543.8	3267.0	2997.8	2811.1	2704.2	2733.8	2834.3
15°	5022.1	4947.4	4610.1	3887.6	3433.1	3076.4	2781.5	2566.4	2486.6	2551.0	2711.9
17.5°	5197.3	5103.3	4749.1	3917.3	3327.5	2881.9	2520.1	2274.1	2207.2	2310.2	2520.1
20°	5760.0	5620.9	5183.1	4088.5	3317.2	2785.3	2368.1	2120.9	2149.2	2344.9	2563.9
22.5°	6800.5	6591.9	5942.9	4338.3	3371.3	2760.9	2337.2	2208.4	2364.3	2530.4	2674.6
25°	7006.5	6843.0	6079.4	4395.0	3359.7	2744.1	2424.8	2489.2	2663.0	2745.4	2695.2
27.5°	7122.4	6935.7	6070.3	4114.3	3004.3	2489.2	2317.9	2424.8	2468.6	2388.7	2252.2
30°	7392.8	7198.4	6223.6	3819.4	2473.7	1846.6	1618.7	1574.9	1604.5	1620.0	1571.0
32.5°	7765.0	7573.1	6512.0	3626.2	2138.9	1527.2	1303.2	1241.4	1227.2	1210.5	1191.1
35°	8246.6	7951.7	6795.3	3502.6	2001.1	1412.6	1206.6	1159.0	1139.6	1116.5	1095.9
37.5°	8735.9	8426.9	7153.3	3372.6	1909.7	1332.8	1142.2	1120.3	1086.8	1062.4	1032.8
40°	9256.2	8909.8	7479.1	3259.2	1820.8	1281.3	1095.9	1093.3	1049.5	1021.2	986.4
42.5°	9706.9	9350.2	7770.1	3189.7	1752.6	1227.2	1067.5	1075.3	1030.2	987.7	942.6
45°	10064.9	9714.6	8039.3	3189.7	1697.2	1173.1	1062.4	1057.2	1012.2	959.4	907.8
47.5°	10379.1	10017.2	8302.0	3270.8	1662.5	1128.0	1034.0	1043.1	996.7	929.7	879.5
50°	10622.4	10303.1	8656.1	3397.0	1627.7	1092.0	998.0	1046.9	983.8	914.3	856.3
52.5°	10932.8	10646.9	9082.3	3569.6	1598.1	1052.1	965.8	1046.9	982.5	915.6	852.5
55°	11362.9	11061.6	9596.1	3712.5	1550.4	1014.7	937.5	1017.3	978.7	909.1	842.2
57.5°	11664.2	11438.9	9959.3	3807.8	1482.2	967.1	911.7	989.0	961.9	884.7	811.3
58°	11678.4	11458.2	10012.1	3829.7	1465.4	958.1	905.3	976.1	954.2	874.4	801.0
60°	11516.1	11326.8	10022.4	3798.8	1370.1	913.0	871.8	923.3	913.0	813.8	745.6
62.5°	10926.3	10724.2	9606.4	3547.7	1243.9	857.6	820.3	852.5	829.3	728.9	665.8
65°	10088.0	9715.9	8751.4	3153.6	1153.8	798.4	750.7	753.3	728.9	656.7	601.4
67.5°	8971.6	8555.6	7409.6	2657.9	1085.6	732.7	668.3	661.9	632.3	585.9	540.8
70°	7597.6	7313.0	6021.4	2162.1	1009.6	660.6	575.6	571.7	553.7	519.0	479.0
72.5°	6157.9	5796.1	4862.5	1730.7	916.9	591.1	489.3	497.1	473.9	449.4	413.4
75°	4544.4	4307.4	3758.9	1388.2	792.0	515.1	408.2	410.8	400.5	374.7	346.4
77.5°	2992.7	2921.8	2688.8	911.7	609.1	409.5	333.5	336.1	328.4	305.2	275.6
80°	2014.0	1966.4	1822.1	587.2	406.9	296.2	257.5	260.1	258.8	234.4	194.4
82.5°	1241.4	1220.8	1174.4	396.6	282.0	212.5	170.0	177.7	191.9	164.8	132.6
85°	585.9	587.2	709.5	216.3	166.1	136.5	92.7	99.2	99.2	99.2	74.7
87.5°	76.0	79.8	97.9	91.4	60.5	51.5	33.5	28.3	24.5	32.2	23.2
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: P454323

CATALOG NUMBER: GALN-SA5B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4898.5	4898.5	4898.5	4898.5	4898.5	4898.5	4898.5	4898.5	4898.5	4898.5	4898.5
2.5°	4249.5	4223.7	4168.4	4155.5	4147.8	4169.7	4111.7	4127.2	4101.4	4173.5	4161.9
5°	3558.0	3560.6	3605.6	3635.2	3645.5	3635.2	3596.6	3529.7	3478.1	3457.5	3462.7
7.5°	3066.1	3111.1	3188.4	3274.7	3353.2	3376.4	3354.5	3227.0	3088.0	3000.4	2972.1
10°	2902.5	2963.1	3051.9	3120.2	3189.7	3245.1	3256.7	3157.5	2992.7	2785.3	2704.2
12.5°	2911.5	2994.0	3079.0	3100.8	3094.4	3116.3	3106.0	3089.3	2981.1	2717.1	2581.9
15°	2826.6	2924.4	2983.7	2972.1	2951.5	2932.2	2905.1	2862.6	2824.0	2638.5	2489.2
17.5°	2630.8	2731.3	2780.2	2784.1	2784.1	2778.9	2713.2	2697.8	2692.6	2602.5	2511.1
20°	2666.9	2722.3	2700.4	2664.3	2674.6	2709.4	2670.7	2663.0	2692.6	2732.6	2715.8
22.5°	2687.5	2668.2	2503.3	2343.7	2307.6	2415.8	2437.7	2523.9	2643.7	2787.9	2881.9
25°	2560.0	2404.2	2109.3	1929.0	1827.3	1927.7	2059.1	2218.8	2397.7	2583.2	2692.6
27.5°	2140.2	2021.7	1810.5	1648.3	1559.4	1574.9	1686.9	1832.4	1998.5	2123.5	2203.3
30°	1612.2	1559.4	1450.0	1394.6	1340.5	1327.6	1375.3	1430.7	1504.1	1519.5	1540.1
32.5°	1187.3	1179.6	1186.0	1168.0	1157.7	1156.4	1142.2	1155.1	1162.8	1171.8	1153.8
35°	1074.0	1063.7	1045.6	1040.5	1034.0	1036.6	1030.2	1023.7	1028.9	1036.6	1041.8
37.5°	1016.0	1000.6	974.8	965.8	965.8	969.7	959.4	956.8	965.8	990.3	1003.1
40°	970.9	952.9	923.3	911.7	919.4	929.7	915.6	910.4	932.3	958.1	978.7
42.5°	928.4	914.3	886.0	873.1	879.5	898.8	878.2	874.4	902.7	931.0	955.5
45°	892.4	878.2	852.5	846.0	848.6	866.6	852.5	852.5	879.5	910.4	932.3
47.5°	864.1	846.0	829.3	824.1	826.7	837.0	834.4	834.4	860.2	892.4	914.3
50°	835.7	820.3	798.4	801.0	807.4	821.6	820.3	824.1	849.9	889.8	913.0
52.5°	822.9	799.7	775.2	777.8	797.1	813.8	808.7	812.6	842.2	916.9	950.3
55°	808.7	777.8	749.5	753.3	775.2	799.7	793.2	798.4	833.2	934.9	981.2
57.5°	781.6	745.6	714.7	717.3	749.5	775.2	764.9	771.3	812.6	915.6	964.5
58°	770.1	739.2	709.5	710.8	741.7	770.1	758.5	763.6	806.1	910.4	956.8
60°	721.1	703.1	677.3	678.6	708.2	732.7	726.3	731.4	772.6	873.1	907.8
62.5°	654.2	643.9	637.4	637.4	655.5	678.6	685.1	691.5	728.9	789.4	820.3
65°	582.1	582.1	583.3	583.3	594.9	624.5	628.4	645.2	679.9	709.5	732.7
67.5°	533.1	530.5	533.1	526.7	531.8	549.9	569.2	584.6	620.7	641.3	649.0
70°	470.0	468.7	470.0	461.0	467.4	482.9	495.8	521.5	558.9	574.3	578.2
72.5°	408.2	408.2	410.8	404.3	404.3	421.1	430.1	458.4	493.2	502.2	503.5
75°	343.8	347.7	347.7	338.7	341.2	351.5	363.1	386.3	418.5	424.9	424.9
77.5°	273.0	287.2	287.2	278.1	282.0	283.3	298.8	310.3	334.8	337.4	327.1
80°	198.3	212.5	224.1	216.3	222.8	215.1	224.1	231.8	256.3	244.7	227.9
82.5°	141.6	152.0	161.0	162.3	155.8	141.6	153.2	154.5	166.1	150.7	141.6
85°	78.6	87.6	99.2	94.0	83.7	74.7	78.6	81.1	79.8	76.0	70.8
87.5°	20.6	21.9	24.5	18.0	16.7	14.2	19.3	19.3	21.9	23.2	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: P454323

CATALOG NUMBER: GALN-SA5B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4898.5	4898.5	4898.5	4898.5	4898.5	4898.5	4898.5	4898.5	4898.5	4898.5	4898.5
2.5°	4170.9	4227.6	4349.9	4442.7	4556.0	4693.8	4856.0	5019.6	5196.0	5251.3	5328.6
5°	3451.1	3592.8	3652.0	3820.7	3988.1	4239.2	4507.0	4817.4	5157.3	5320.9	5478.0
7.5°	2948.9	3024.9	3086.7	3210.3	3411.2	3716.4	4052.5	4440.1	4921.7	5159.9	5390.4
10°	2678.5	2686.2	2762.2	2915.4	3090.5	3359.7	3677.7	4111.7	4648.7	4938.4	5208.8
12.5°	2499.5	2466.0	2548.4	2708.1	2906.4	3154.9	3447.2	3860.6	4451.7	4749.1	5076.2
15°	2342.4	2289.6	2351.4	2514.9	2710.7	3003.0	3317.2	3755.0	4374.4	4720.8	5083.9
17.5°	2346.2	2200.7	2222.6	2360.4	2554.8	2852.3	3233.5	3751.1	4491.6	4890.8	5320.9
20°	2636.0	2402.9	2303.7	2329.5	2517.5	2842.0	3272.1	3931.4	4876.6	5458.7	5918.4
22.5°	2920.6	2780.2	2620.5	2567.7	2670.7	3010.7	3518.1	4357.7	5713.6	6590.6	7421.2
25°	2821.4	2941.2	2901.2	2826.6	2849.7	3131.7	3685.5	4707.9	6363.9	7351.6	8132.0
27.5°	2257.4	2475.0	2518.8	2517.5	2526.5	2758.3	3314.6	4472.3	6445.1	7497.1	8242.7
30°	1586.5	1605.8	1629.0	1674.0	1715.2	1922.6	2593.5	3926.3	6409.0	7562.8	8309.7
32.5°	1144.8	1170.5	1202.7	1264.5	1362.4	1626.4	2269.0	3752.4	6599.6	7834.5	8505.4
35°	1046.9	1076.5	1107.4	1178.3	1271.0	1515.7	2140.2	3680.3	6912.5	8274.9	8857.0
37.5°	1016.0	1049.5	1076.5	1128.0	1202.7	1435.8	2023.0	3631.4	7233.2	8741.1	9328.3
40°	994.1	1032.8	1054.6	1095.9	1147.4	1362.4	1918.7	3592.8	7543.5	9167.3	9706.9
42.5°	974.8	1014.7	1043.1	1072.7	1115.2	1296.7	1826.0	3554.1	7812.6	9580.7	10084.2
45°	951.6	1001.9	1037.9	1061.1	1098.4	1241.4	1755.2	3523.2	8119.1	9947.7	10465.3
47.5°	932.3	987.7	1032.8	1059.8	1074.0	1202.7	1698.5	3565.7	8487.4	10331.4	10819.5
50°	933.6	986.4	1043.1	1085.6	1048.2	1170.5	1663.7	3734.4	8966.4	10787.3	11098.9
52.5°	974.8	1039.2	1084.3	1094.6	1012.2	1131.9	1645.7	4029.3	9533.0	11190.3	11380.9
55°	1021.2	1088.1	1137.1	1130.6	992.8	1083.0	1641.8	4343.5	10153.7	11660.4	11747.9
57.5°	1004.4	1102.3	1177.0	1143.5	994.1	1035.3	1625.1	4597.2	10672.7	12011.9	12111.1
58°	999.3	1097.1	1182.1	1140.9	990.3	1021.2	1621.2	4619.1	10744.8	12036.4	12162.6
60°	949.1	1052.1	1178.3	1121.6	968.4	982.5	1578.8	4689.9	10725.5	11910.2	12193.5
62.5°	857.6	942.6	1089.4	1027.6	901.4	931.0	1483.5	4602.3	10202.6	11302.4	11741.5
65°	754.6	817.7	915.6	904.0	806.1	878.2	1353.4	4255.9	9155.7	10316.0	10778.3
67.5°	677.3	728.9	790.7	773.9	725.0	807.4	1213.0	3670.0	7981.3	9131.3	9713.3
70°	598.8	638.7	669.6	658.0	642.6	737.9	1088.1	2978.5	6855.8	8005.8	8569.8
72.5°	519.0	556.3	582.1	565.3	556.3	664.5	986.4	2311.5	5414.9	6604.7	7329.7
75°	434.0	471.3	489.3	470.0	464.9	585.9	835.7	1726.8	4062.8	5091.7	5717.5
77.5°	336.1	376.0	399.2	392.8	395.3	481.6	674.8	1182.1	2905.1	3470.4	4129.7
80°	235.7	279.4	294.9	288.5	306.5	367.0	476.5	750.7	2003.7	2252.2	2717.1
82.5°	145.5	186.7	189.3	195.7	208.6	271.7	359.3	457.1	1258.1	1300.6	1638.0
85°	73.4	88.9	95.3	105.6	117.2	166.1	204.7	283.3	810.0	613.0	915.6
87.5°	24.5	25.8	30.9	38.6	47.6	68.2	87.6	115.9	200.9	110.7	283.3
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: P454323

CATALOG NUMBER: GALN-SA5B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4898.5	4898.5	4898.5	4898.5	4898.5	4898.5	4898.5	4898.5	4898.5	4898.5
2.5°	5484.4	5593.9	5673.7	5747.1	5676.3	5669.9	5600.3	5488.3	5441.9	5441.9
5°	5807.6	6063.9	6271.2	6403.9	6347.2	6210.7	5985.3	5698.2	5543.7	5516.6
7.5°	5896.5	6402.6	6787.6	6924.1	6828.8	6527.5	6096.1	5611.9	5390.4	5341.5
10°	5842.4	6500.4	7065.7	7282.1	7149.5	6693.6	6105.1	5511.5	5238.5	5181.8
12.5°	5785.7	6513.3	7117.3	7430.2	7343.9	6827.5	6170.8	5445.8	5130.3	5049.2
15°	5827.0	6518.5	7054.2	7377.4	7432.7	6988.5	6278.9	5493.4	5108.4	5022.1
17.5°	6087.1	6616.3	6964.0	7225.4	7419.9	7207.4	6586.7	5721.4	5304.1	5197.3
20°	6630.5	6850.7	7015.5	7217.7	7530.6	7654.2	7216.4	6347.2	5854.0	5760.0
22.5°	8204.1	8164.2	7826.8	7822.9	8276.2	8772.0	8742.4	7619.5	6877.7	6800.5
25°	8793.9	8608.4	8120.4	8001.9	8201.5	8966.4	8855.7	7879.6	7194.5	7006.5
27.5°	8563.4	8103.7	7783.0	7756.0	7690.3	8412.7	8679.3	7985.2	7305.3	7122.4
30°	8549.2	7873.2	7414.7	7468.8	7531.9	8222.1	8777.1	8316.1	7588.6	7392.8
32.5°	8584.0	7905.3	7441.8	7452.1	7640.1	8250.5	8885.3	8676.7	7960.7	7765.0
35°	8724.3	8088.2	7614.3	7589.9	7883.5	8435.9	9069.4	9243.3	8469.4	8246.6
37.5°	8951.0	8452.6	7929.8	7923.4	8349.6	8770.7	9298.7	9815.0	8975.4	8735.9
40°	9284.5	8878.9	8491.3	8456.5	8983.2	9315.4	9596.1	10424.1	9563.9	9256.2
42.5°	9687.6	9390.1	9231.7	9369.5	9875.6	9927.1	10059.7	10986.9	10064.9	9706.9
45°	10061.0	10046.8	10267.0	10632.7	10927.6	10618.6	10543.9	11364.2	10453.8	10064.9
47.5°	10505.3	10889.0	11553.5	12089.2	12398.2	11423.4	10957.3	11610.1	10737.1	10379.1
50°	10956.0	11897.3	12958.4	13705.3	13770.9	12297.8	11241.8	11841.9	10994.6	10622.4
52.5°	11429.8	12702.1	14114.8	14982.7	14855.2	13058.8	11517.4	11999.0	11259.9	10932.8
55°	11841.9	13195.3	14761.2	15594.4	15407.6	13522.4	11814.9	12169.0	11638.5	11362.9
57.5°	12072.4	13236.5	14600.2	15327.8	15125.6	13432.3	11951.4	12295.2	11880.6	11664.2
58°	12105.9	13181.2	14457.3	15173.3	14967.2	13356.3	11950.1	12290.0	11896.0	11678.4
60°	12076.3	12821.9	13925.5	14562.9	14346.5	12879.8	11901.2	12193.5	11700.3	11516.1
62.5°	11802.0	12198.6	13007.3	13470.9	13409.1	12135.5	11700.3	11829.0	11104.1	10926.3
65°	11441.4	11348.7	11831.6	12160.0	12206.3	11577.9	11500.7	11041.0	10339.1	10088.0
67.5°	11003.6	10385.5	10384.2	10570.9	10648.2	10720.3	11084.7	10184.6	9236.9	8971.6
70°	10260.6	8900.8	8491.3	8711.5	8647.1	9256.2	10341.7	8981.9	7907.9	7597.6
72.5°	8898.2	7063.2	6407.7	6691.0	6528.8	7258.9	9048.8	7391.5	6539.1	6157.9
75°	7212.5	5283.5	4607.5	4867.6	4767.2	5506.3	7529.3	5368.5	4689.9	4544.4
77.5°	5600.3	3828.4	3435.7	3399.6	3474.3	4097.5	5523.1	3624.9	3091.8	2992.7
80°	3597.9	2740.3	2763.5	2717.1	2755.7	2583.2	3353.2	2312.8	2093.8	2014.0
82.5°	2368.1	1909.7	2276.7	2101.6	1996.0	1737.1	2199.4	1514.4	1285.1	1241.4
85°	1613.5	1406.2	1280.0	978.7	1152.5	1337.9	1649.6	815.1	646.4	585.9
87.5°	728.9	489.3	359.3	221.5	350.3	404.3	801.0	95.3	73.4	76.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)