

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: P455939

Luminaire Tested: **GALN-SA7A-830-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455939
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-830-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25265 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 215
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

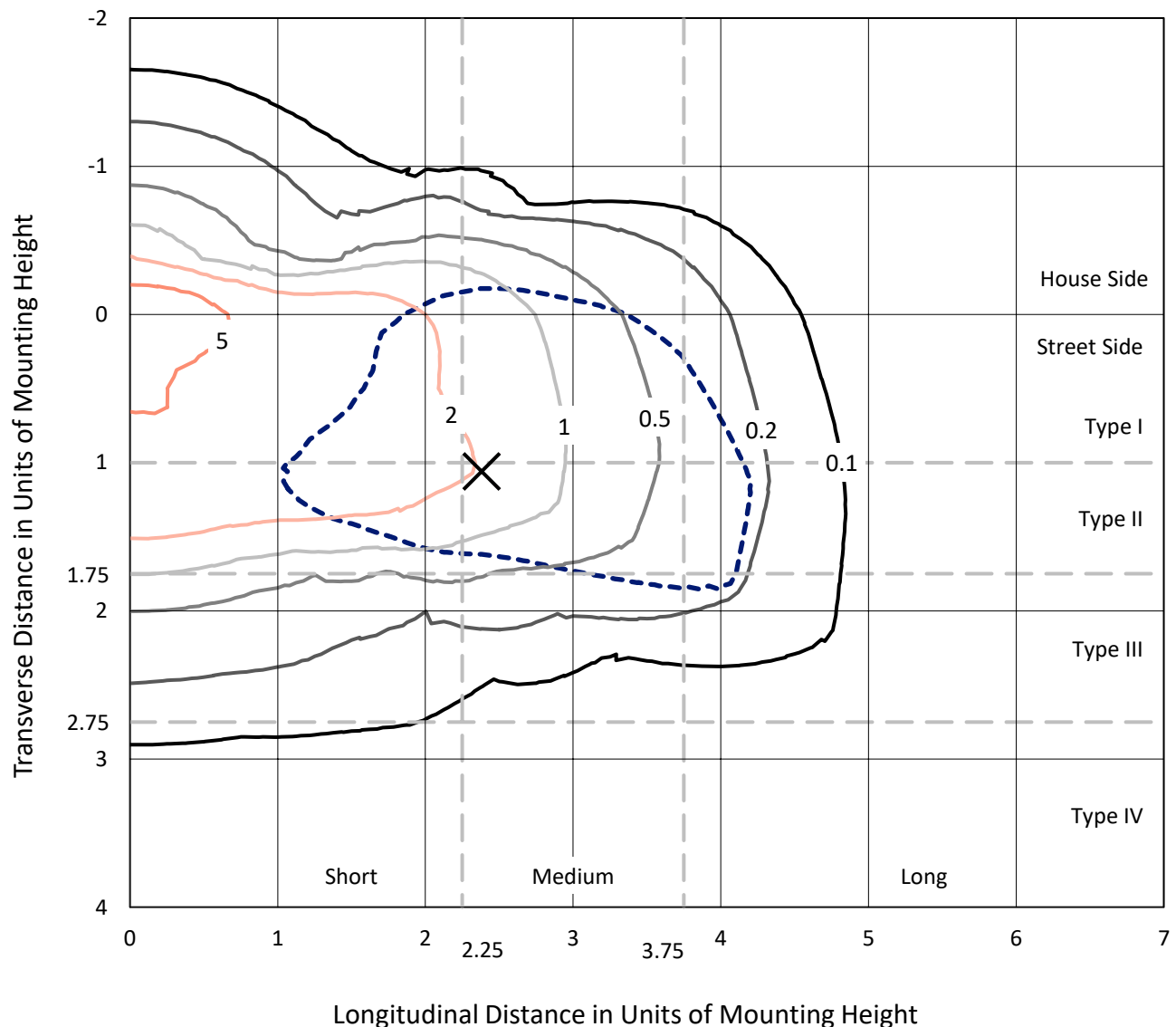


REPORT NUMBER: P455939

CATALOG NUMBER: GALN-SA7A-830-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

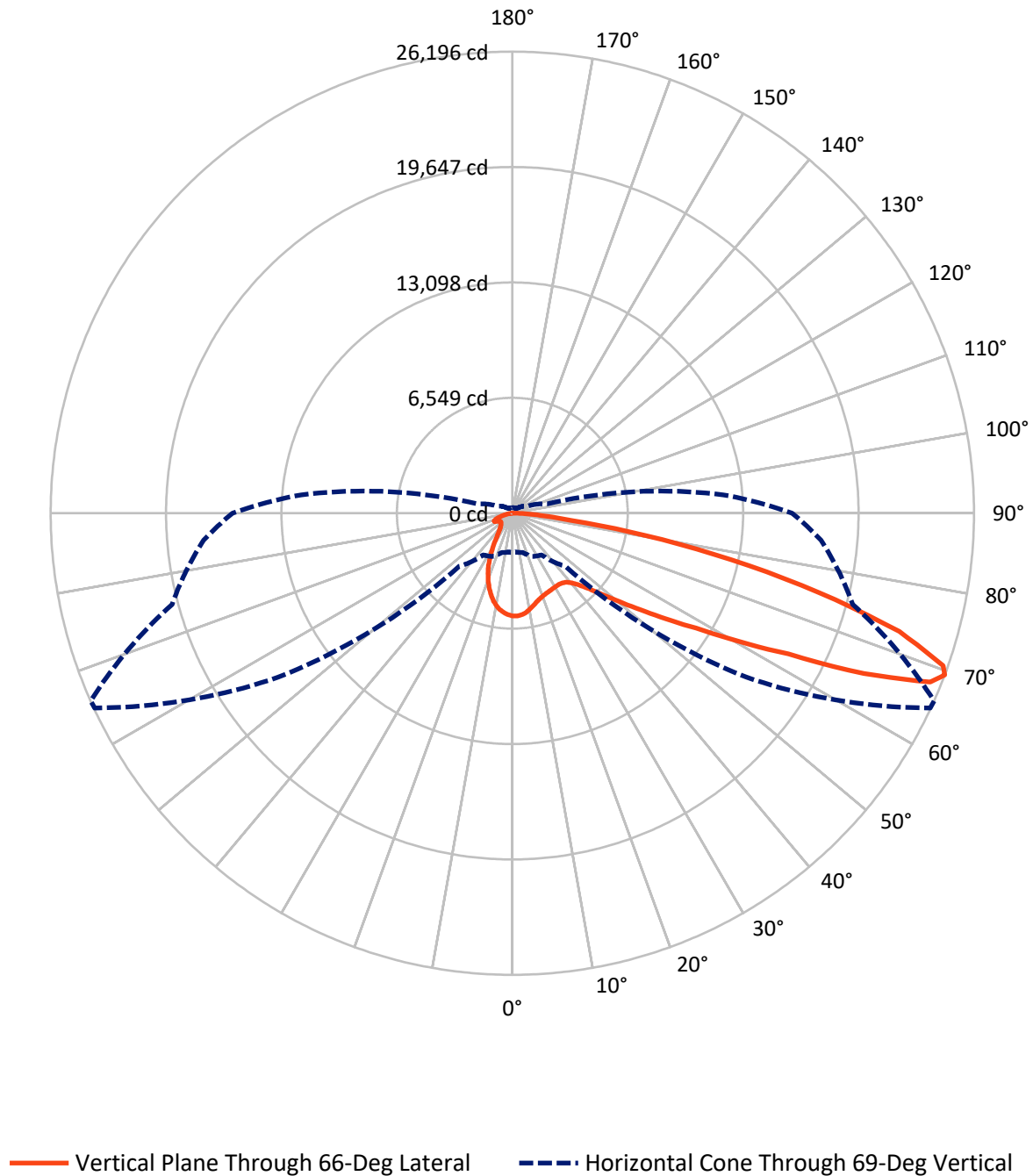


Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type III - Medium - N/A

REPORT NUMBER: P455939

CATALOG NUMBER: GALN-SA7A-830-U-SL2

Luminous Intensity Polar Plot



REPORT NUMBER: P455939

CATALOG NUMBER: GALN-SA7A-830-U-SL2

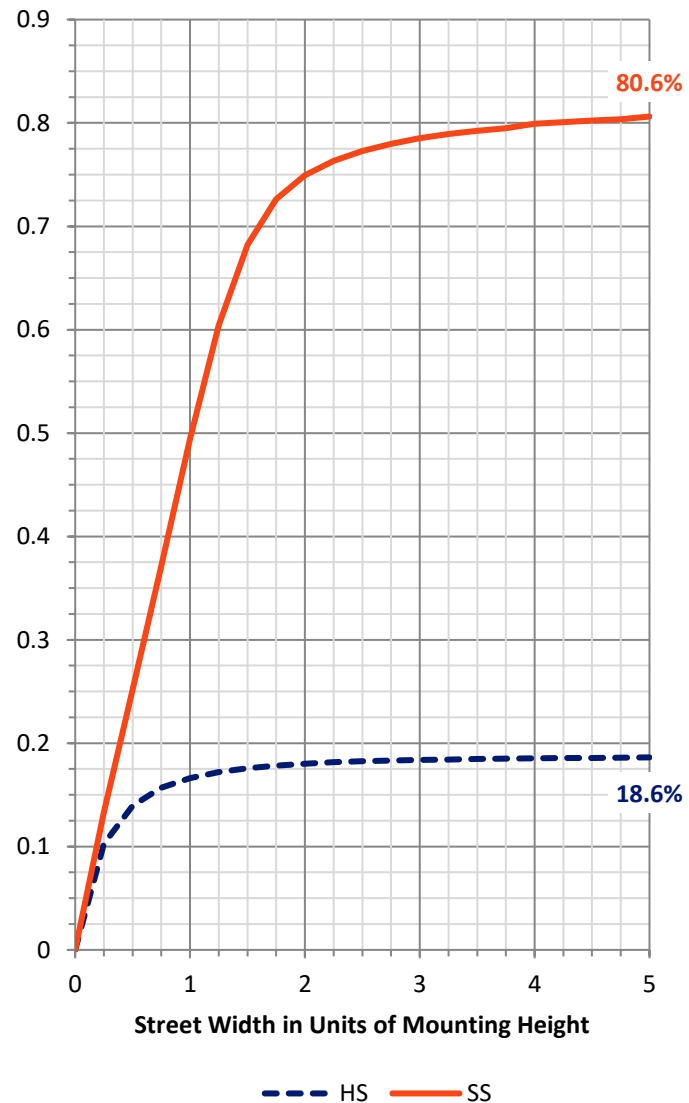
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4751.4	0.0	4751.4
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	20513.6	0.0	20513.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	25265.0	0.0	25265.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	506.7	2.0
10°-20°	1201.7	4.8
20°-30°	1636.0	6.5
30°-40°	2198.4	8.7
40°-50°	3282.6	13.0
50°-60°	5221.6	20.7
60°-70°	6422.3	25.4
70°-80°	4178.6	16.5
80°-90°	617.1	2.4
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°	25265.0	100.0
0°-180°	25265.0	100.0

Coefficient of Utilization



REPORT NUMBER: P455939

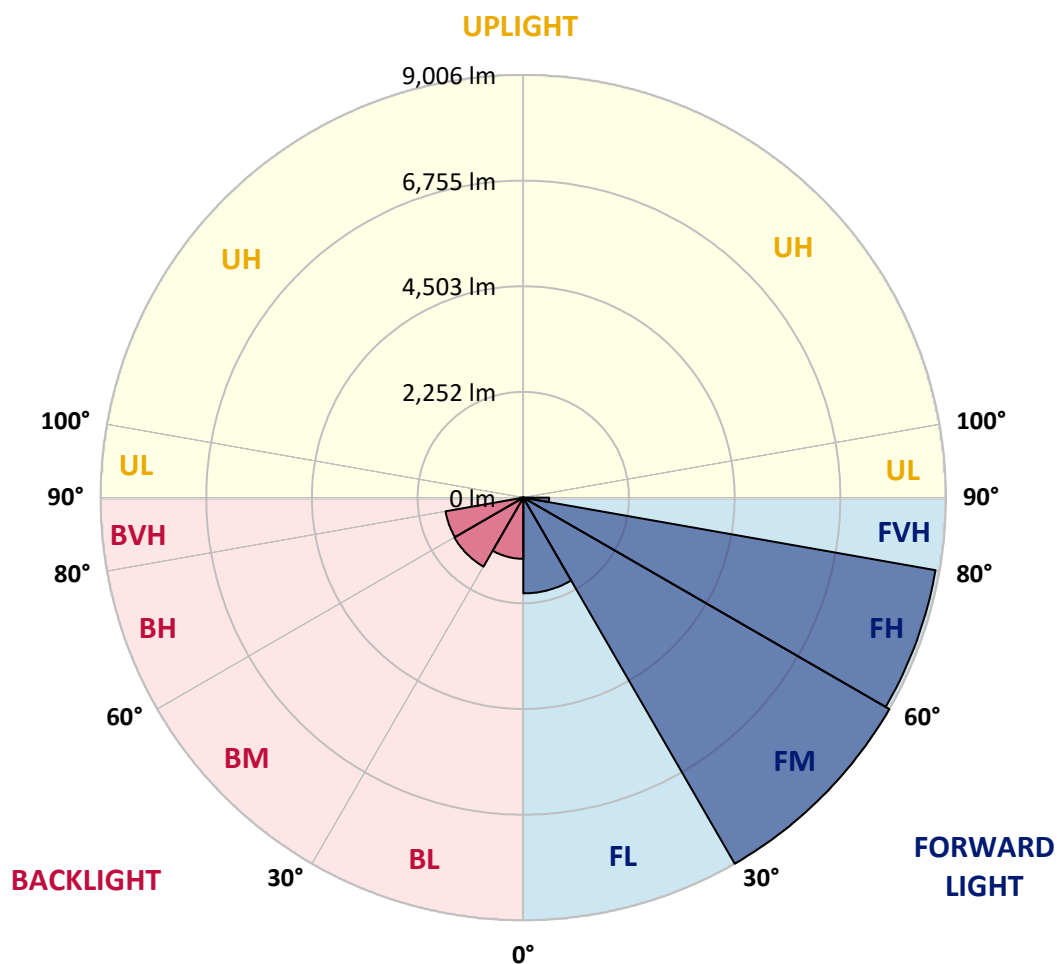
CATALOG NUMBER: GALN-SA7A-830-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2040.1	8.1			
FM	(30°-60°)	9006.2	35.6			
FH	(60°-80°)	8918.7	35.3			G4/12000
FVH	(80°-90°)	548.6	2.2			G4/750
BL	(0°-30°)	1304.3	5.2	B3/2500		
BM	(30°-60°)	1696.5	6.7	B2/2500		
BH	(60°-80°)	1682.2	6.7	B3/2500		G3/2500
BVH	(80°-90°)	68.5	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: P455939

CATALOG NUMBER: GALN-SA7A-830-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5834.4	5834.4	5834.4	5834.4	5834.4	5834.4	5834.4	5834.4	5834.4	5834.4	5834.4
2.5°	5630.1	5652.5	5677.7	5705.7	5758.8	5788.2	5809.2	5833.0	5835.8	5848.4	5838.6
5°	5214.6	5241.2	5278.9	5332.1	5411.9	5536.4	5665.1	5770.0	5782.6	5841.4	5858.2
7.5°	4867.6	4883.0	4913.8	4999.1	5112.4	5251.0	5438.4	5651.1	5681.9	5821.8	5870.8
10°	4585.0	4600.4	4636.7	4724.9	4836.8	5010.3	5216.0	5495.8	5521.0	5761.6	5873.6
12.5°	4373.7	4387.7	4426.9	4513.6	4642.3	4804.6	5031.3	5327.9	5364.3	5681.9	5847.0
15°	4212.8	4239.4	4271.6	4342.9	4478.6	4635.3	4855.0	5174.0	5203.4	5597.9	5828.8
17.5°	4144.2	4156.8	4179.2	4245.0	4344.3	4498.2	4719.3	5053.7	5088.7	5539.2	5824.6
20°	4147.0	4159.6	4163.8	4200.2	4271.6	4404.5	4622.7	4958.5	5000.5	5487.4	5831.6
22.5°	4242.2	4243.6	4228.2	4215.6	4243.6	4354.1	4554.2	4887.2	4936.1	5465.0	5837.2
25°	4389.1	4414.3	4391.9	4333.1	4281.4	4334.5	4527.6	4848.0	4894.2	5432.8	5830.2
27.5°	4626.9	4631.1	4612.9	4533.2	4398.9	4359.7	4516.4	4818.6	4857.8	5409.1	5795.2
30°	4945.9	4933.3	4916.6	4828.4	4617.1	4456.2	4540.2	4792.0	4832.6	5374.1	5753.2
32.5°	5269.1	5308.3	5292.9	5189.4	4915.2	4643.7	4617.1	4789.2	4822.8	5347.5	5707.1
35°	5611.9	5630.1	5702.9	5649.7	5368.5	4947.3	4761.3	4832.6	4859.2	5348.9	5674.9
37.5°	5880.6	5929.5	6100.2	6146.4	5882.0	5348.9	4994.9	4955.7	4966.9	5417.4	5687.5
40°	6205.2	6289.1	6508.8	6697.7	6524.2	5870.8	5392.3	5183.8	5197.8	5582.5	5770.0
42.5°	6616.5	6675.3	6970.5	7226.5	7198.5	6560.5	5873.6	5557.4	5564.4	5911.3	6000.9
45°	7097.8	7181.8	7513.4	7898.1	7963.9	7341.3	6568.9	6122.6	6118.4	6422.0	6431.8
47.5°	7713.4	7765.2	8094.0	8513.7	8779.6	8322.1	7412.6	6934.1	6889.3	7166.4	7086.6
50°	8280.1	8361.2	8610.3	9069.2	9731.0	9470.7	8522.1	7986.3	7881.3	8140.2	8005.8
52.5°	8517.9	8603.3	8813.1	9382.6	10546.7	10956.6	9931.1	9241.3	9066.4	9265.1	9216.1
55°	8105.2	8215.7	8411.6	9104.2	10904.9	12670.6	11831.1	10692.2	10564.9	10479.5	10493.5
57.5°	6995.7	7100.6	7365.0	8129.0	10476.7	13914.4	14544.0	12557.2	12284.4	11891.2	11958.4
60°	5325.1	5390.9	5528.0	6374.5	9207.7	14237.6	17624.9	14914.8	14741.3	13297.4	13344.9
62.5°	3781.9	3856.0	3951.2	4373.7	6741.0	13326.8	20037.0	18206.9	17587.1	14753.9	14707.7
65°	3071.1	3020.7	3135.5	3332.7	3955.4	10328.4	20579.9	22776.5	21923.0	16672.1	16031.3
67.5°	2525.4	2472.3	2585.6	2936.8	3008.1	5995.3	18623.9	25742.7	25572.0	18758.2	17375.9
69°	2235.8	2207.8	2307.2	2707.3	2887.8	4257.6	16224.4	26155.4	26196.0	19988.0	17582.9
70°	2014.8	2025.9	2122.5	2591.2	2833.2	3510.4	13866.8	25586.0	25930.2	20602.3	17359.1
72.5°	1483.1	1506.9	1641.2	2146.3	2781.5	2978.8	8252.1	22348.4	22957.0	20638.6	15880.2
75°	1036.8	1025.6	1144.5	1616.0	2627.6	2952.2	4846.6	17283.5	17973.3	17839.0	13343.5
77.5°	678.6	696.8	791.9	1141.7	2210.6	2929.8	3159.2	12262.0	12709.7	11930.4	7892.5
80°	478.5	477.1	530.3	779.3	1639.8	2815.1	2587.0	7728.8	7615.5	4688.5	2340.8
82.5°	274.2	293.8	355.4	548.5	1096.9	2477.9	2379.9	3696.5	3374.7	1336.2	790.5
85°	152.5	159.5	211.3	331.6	640.8	1866.4	2077.7	1681.8	1586.6	558.3	340.0
87.5°	49.0	53.2	88.1	167.9	291.0	881.5	1176.7	776.5	716.4	201.5	137.1
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: P455939

CATALOG NUMBER: GALN-SA7A-830-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5834.4	5834.4	5834.4	5834.4	5834.4	5834.4	5834.4	5834.4	5834.4	5834.4	5834.4
2.5°	5842.8	5859.6	5814.8	5771.4	5732.3	5677.7	5628.7	5588.1	5560.2	5556.0	5542.0
5°	5862.4	5863.8	5778.4	5663.7	5551.8	5428.6	5301.3	5210.4	5125.0	5077.5	5053.7
7.5°	5876.4	5863.8	5709.9	5523.8	5308.3	5084.5	4860.6	4681.5	4543.0	4488.4	4509.4
10°	5870.8	5831.6	5606.3	5308.3	4994.9	4660.5	4338.7	4086.9	3856.0	3737.1	3739.9
12.5°	5840.0	5775.6	5452.4	5066.3	4606.0	4158.2	3665.7	3325.7	3058.5	2900.4	2851.4
15°	5813.4	5701.5	5271.9	4737.5	4165.2	3525.8	2925.6	2505.8	2282.0	2157.5	2156.1
17.5°	5785.4	5630.1	5074.7	4389.1	3658.7	2836.0	2206.4	1886.0	1781.1	1793.7	1772.7
20°	5756.0	5546.2	4869.0	4001.5	3041.7	2115.5	1652.4	1522.3	1551.6	1609.0	1617.4
22.5°	5722.5	5456.6	4647.9	3574.8	2392.5	1592.2	1340.4	1320.8	1396.3	1485.9	1498.5
25°	5670.7	5344.7	4369.5	3128.5	1845.5	1283.0	1173.9	1187.9	1262.0	1337.6	1346.0
27.5°	5597.9	5206.2	4088.3	2571.6	1386.5	1101.1	1073.1	1091.3	1127.7	1173.9	1185.1
30°	5500.0	5049.5	3765.1	2090.3	1110.9	1010.2	999.0	1008.8	1029.8	1049.4	1054.9
32.5°	5402.1	4898.4	3439.1	1600.6	990.6	950.0	938.8	938.8	938.8	941.6	943.0
35°	5311.1	4755.7	3089.3	1246.6	927.6	902.4	887.1	870.3	867.5	857.7	857.7
37.5°	5260.7	4625.5	2717.1	1043.8	881.5	863.3	842.3	814.3	798.9	800.3	797.5
40°	5270.5	4540.2	2378.5	929.0	843.7	824.1	791.9	759.7	749.9	749.9	747.1
42.5°	5381.1	4512.2	2053.9	868.9	807.3	784.9	744.3	715.0	709.4	708.0	710.8
45°	5635.7	4580.8	1762.9	829.7	776.5	742.9	702.4	675.8	670.2	670.2	668.8
47.5°	6132.4	4803.2	1554.4	804.5	754.1	710.8	668.8	642.2	632.4	629.6	629.6
50°	6904.7	5285.9	1399.1	782.1	726.2	681.4	638.0	607.2	591.8	590.4	589.0
52.5°	7977.9	6038.7	1339.0	765.3	695.4	650.6	603.0	573.6	554.1	549.9	547.1
55°	9232.9	7089.4	1421.5	752.7	663.2	615.6	566.6	535.9	517.7	509.3	507.9
57.5°	10686.6	8351.4	1734.9	735.9	633.8	577.8	530.3	499.5	479.9	470.1	467.3
60°	11992.0	9648.4	2282.0	726.2	608.6	537.3	488.3	460.3	442.1	432.3	430.9
62.5°	13426.1	10885.3	2935.4	752.7	597.4	498.1	449.1	423.9	408.5	398.8	398.8
65°	14958.1	12123.5	3367.7	842.3	614.2	467.3	407.1	386.2	372.2	365.2	363.8
67.5°	15990.7	12551.6	2774.5	934.6	656.2	433.7	366.6	349.8	341.4	334.4	334.4
69°	15878.8	12010.2	2046.9	958.4	668.8	416.9	344.2	331.6	320.4	317.6	314.8
70°	15524.8	11393.2	1715.3	943.0	659.0	401.6	330.2	314.8	305.0	302.2	300.8
72.5°	13827.6	9880.7	1277.4	819.9	561.1	348.4	292.4	278.4	270.0	265.8	265.8
75°	11488.3	8075.8	997.6	652.0	439.3	293.8	250.4	239.3	232.3	229.5	228.1
77.5°	6438.8	4509.4	716.4	510.7	333.0	237.9	209.9	200.1	193.1	190.3	190.3
80°	1793.7	1288.6	421.1	337.2	226.7	180.5	166.5	159.5	149.7	142.7	146.9
82.5°	675.8	558.3	240.7	202.9	144.1	120.3	116.1	110.5	106.3	96.5	96.5
85°	328.8	271.4	153.9	107.7	79.8	63.0	60.2	57.4	54.6	47.6	49.0
87.5°	113.3	120.3	67.2	39.2	23.8	15.4	12.6	7.0	7.0	7.0	7.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)