

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: P455471

Luminaire Tested: **GALN-SA6C-830-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455471
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6C-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27142 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 321
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

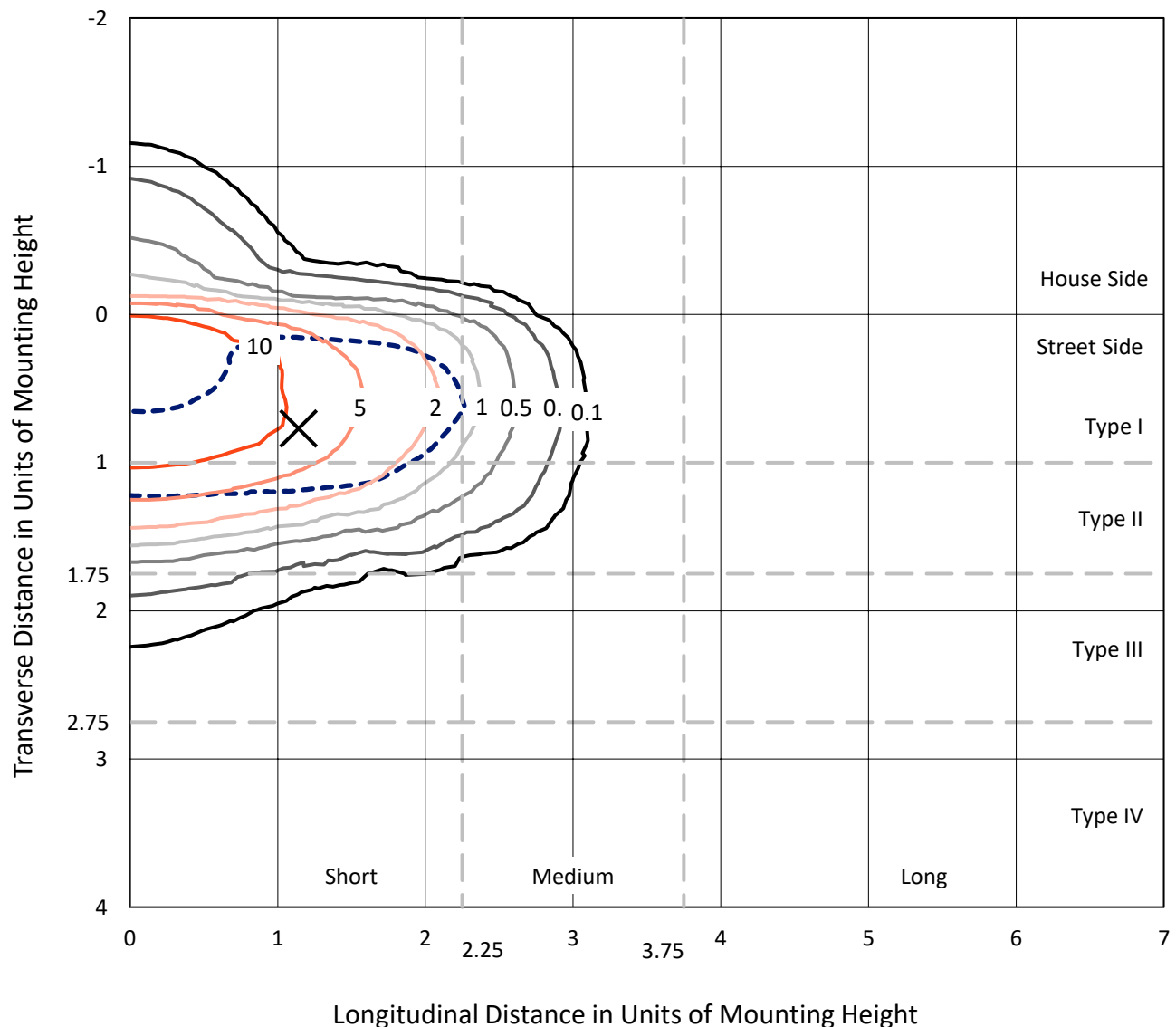


REPORT NUMBER: P455471

CATALOG NUMBER: GALN-SA6C-830-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

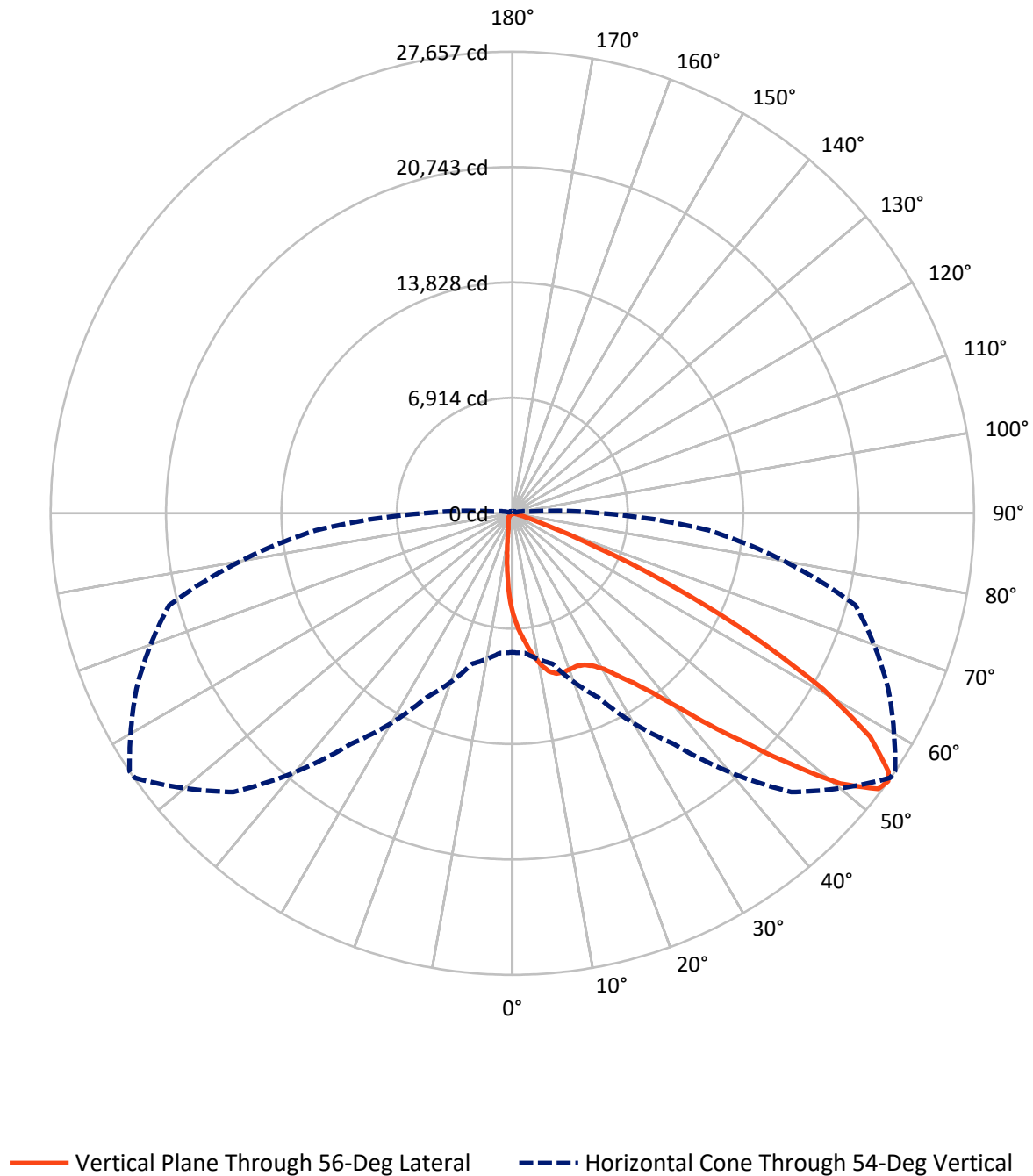
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 fc
 Type II - Short - N/A

REPORT NUMBER: P455471
CATALOG NUMBER: GALN-SA6C-830-U-AFL-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P455471

CATALOG NUMBER: GALN-SA6C-830-U-AFL-HSS

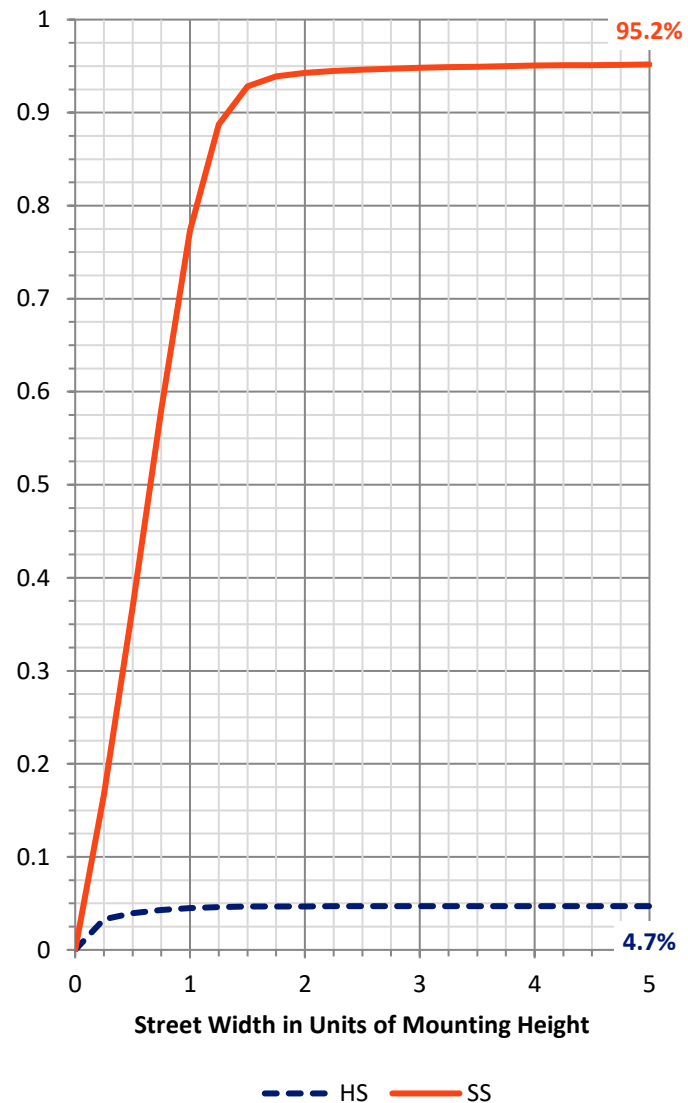
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1283.5	0.0	1283.5
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	25858.5	0.0	25858.5
	% Fixture	95.3	0.0	95.3
Total	Lumens	27142.0	0.0	27142.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	532.9	2.0
10°-20°	1440.5	5.3
20°-30°	2494.8	9.2
30°-40°	4306.5	15.9
40°-50°	7329.8	27.0
50°-60°	7253.7	26.7
60°-70°	3310.8	12.2
70°-80°	425.2	1.6
80°-90°	47.9	0.2
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°	27142.0	100.0
0°-180°	27142.0	100.0

Coefficient of Utilization



REPORT NUMBER: P455471

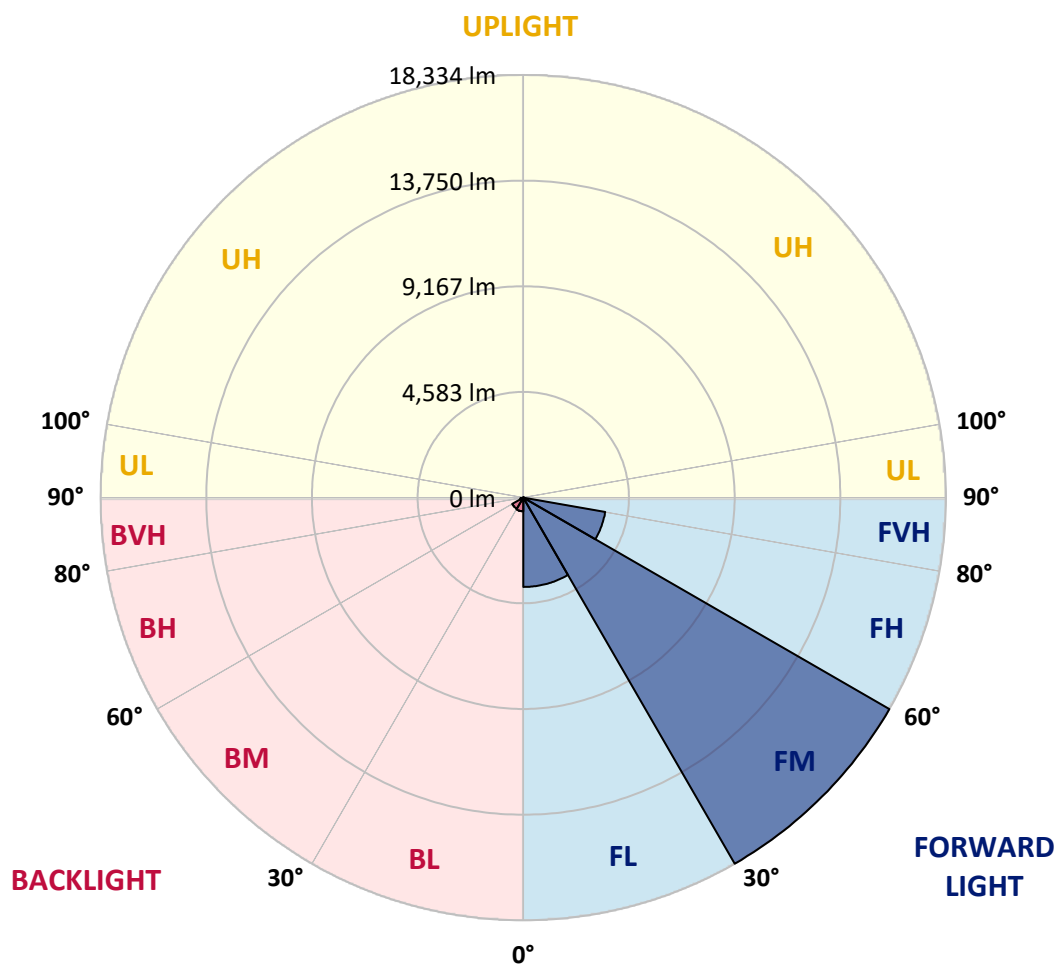
CATALOG NUMBER: GALN-SA6C-830-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3874.6	14.3			
FM	(30°-60°)	18333.7	67.5			
FH	(60°-80°)	3607.4	13.3			G2/5000
FVH	(80°-90°)	42.8	0.2			G1/100
BL	(0°-30°)	593.6	2.2	B2/1000		
BM	(30°-60°)	556.2	2.0	B1/1000		
BH	(60°-80°)	128.5	0.5	B1/500		G1/500
BVH	(80°-90°)	5.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





REPORT NUMBER: P455471

CATALOG NUMBER: GALN-SA6C-830-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6030.2	6030.2	6030.2	6030.2	6030.2	6030.2	6030.2	6030.2	6030.2	6030.2	6030.2
2.5°	7663.6	7610.5	7537.3	7480.5	7346.8	7154.5	6951.3	6951.3	6755.3	6482.5	6204.1
5°	8839.2	8804.5	8733.0	8586.5	8436.4	8167.2	7758.8	7687.4	7337.7	6843.2	6323.2
7.5°	9317.2	9333.7	9337.3	9298.9	9227.5	8961.9	8557.2	8507.8	7949.3	7286.4	6478.8
10°	8859.4	8940.0	9018.7	9178.0	9403.3	9467.4	9238.5	9187.2	8637.8	7735.0	6647.3
12.5°	8178.2	8222.1	8266.1	8517.0	8969.3	9487.5	9727.4	9725.6	9260.4	8181.8	6861.5
15°	7861.4	7899.8	7903.5	8015.2	8407.1	9161.5	9936.1	9963.6	9868.4	8733.0	7092.3
17.5°	7927.3	7958.4	7932.8	7960.3	8165.4	8802.6	9912.3	10003.9	10361.0	9262.3	7301.0
20°	8357.6	8418.1	8319.2	8242.3	8304.5	8707.4	9831.8	9959.9	10708.9	9778.7	7491.5
22.5°	9130.4	9163.4	9038.8	8828.3	8718.4	8907.0	9809.8	9936.1	11005.6	10201.7	7601.3
25°	9989.2	9978.3	9840.9	9604.7	9374.0	9309.9	9954.5	10068.0	11250.9	10582.6	7634.3
27.5°	10848.1	10881.0	10650.3	10357.3	10080.8	9914.2	10278.6	10362.8	11527.5	11016.6	7674.6
30°	11846.1	11793.0	11565.9	11230.8	10914.0	10681.4	10800.5	10824.3	11908.4	11591.6	7780.8
32.5°	13144.4	12997.9	12743.4	12157.4	11930.3	11536.6	11565.9	11595.2	12371.6	12161.1	7909.0
35°	14906.0	14898.7	14400.6	13611.4	13058.4	12569.4	12441.2	12465.0	13073.0	13007.1	8192.8
37.5°	17026.6	17055.9	16488.2	15693.5	14675.3	13898.9	13635.2	13638.8	14138.8	14175.4	8625.0
40°	18753.4	18830.3	18491.6	17955.0	16949.7	15735.6	15292.4	15252.1	15636.7	15590.9	9242.1
42.5°	19496.9	19568.3	19694.7	19881.4	19328.4	18326.7	17281.1	17336.1	17453.3	17132.8	9934.3
45°	19132.5	19246.0	19742.3	20895.9	21416.0	21079.1	19832.0	19639.7	19143.5	18808.4	10630.2
47.5°	17614.4	17890.9	18720.5	20641.4	22461.6	23600.6	22710.7	22456.1	20835.5	20031.6	11073.3
50°	15118.5	15134.9	16290.4	18746.1	21919.6	25191.9	25649.7	25459.3	22412.2	20718.3	11296.7
52.5°	10959.8	11320.5	12379.0	15222.8	19572.0	24950.2	27523.1	27444.3	24038.3	21069.9	11619.0
54°	8332.0	8401.6	9342.8	12164.7	16874.6	23622.6	27638.4	27656.8	24845.8	21282.3	11809.5
55°	6830.4	6663.8	7652.6	10362.8	15034.2	22448.8	27261.2	27349.1	25208.4	21392.2	11950.5
57.5°	3237.6	3239.4	3995.7	5466.2	9416.1	17431.3	24955.7	25267.0	25248.7	21580.8	12384.5
60°	1638.9	1649.9	1816.6	2523.4	4651.3	11587.9	20634.1	21375.7	23305.8	21608.3	12527.3
62.5°	1146.3	1133.5	1106.1	1214.1	1957.6	5889.2	15362.0	16006.6	19800.9	20562.6	12073.2
65°	981.5	954.1	877.1	860.7	988.9	2345.8	9568.1	10619.2	15118.5	17804.8	10780.3
67.5°	838.7	827.7	758.1	716.0	699.5	1021.8	4936.9	5490.0	10333.5	12798.3	8165.4
70°	712.3	706.8	664.7	611.6	565.8	611.6	1831.2	2268.9	5759.2	6890.8	3852.9
72.5°	578.7	584.2	591.5	523.7	476.1	434.0	781.9	910.1	2409.9	2463.0	1347.8
75°	507.2	501.8	501.8	456.0	397.4	322.3	430.3	463.3	738.0	684.9	313.1
77.5°	357.1	344.3	402.9	375.4	331.4	228.9	245.4	260.0	305.8	261.9	146.5
80°	247.2	247.2	258.2	336.9	298.5	166.6	150.2	161.1	181.3	155.7	84.2
82.5°	139.2	142.8	168.5	179.5	174.0	111.7	98.9	100.7	120.9	106.2	53.1
85°	16.5	27.5	97.1	95.2	71.4	49.4	54.9	56.8	75.1	65.9	31.1
87.5°	1.8	3.7	20.1	25.6	18.3	20.1	20.1	20.1	25.6	29.3	22.0
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: P455471

CATALOG NUMBER: GALN-SA6C-830-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6030.2	6030.2	6030.2	6030.2	6030.2	6030.2	6030.2	6030.2	6030.2	6030.2	6030.2
2.5°	6054.0	5914.8	5583.4	5198.8	4953.4	4554.2	4217.3	3973.7	3913.3	3796.1	3830.9
5°	6046.7	5757.3	5081.6	4367.4	3605.7	3038.0	2615.0	2281.7	2135.2	2038.1	1970.4
7.5°	6050.3	5598.0	4513.9	3376.7	2466.6	1910.0	1518.1	1314.8	1179.3	1122.5	1129.9
10°	6061.3	5418.5	3854.7	2501.4	1664.6	1234.2	994.3	897.3	851.5	844.2	842.4
12.5°	6086.9	5222.6	3224.8	1856.8	1164.6	897.3	805.7	772.8	758.1	758.1	752.6
15°	6114.4	5006.5	2701.0	1380.7	897.3	770.9	728.8	712.3	703.2	703.2	701.4
17.5°	6114.4	4757.5	2212.1	1071.3	772.8	708.7	675.7	653.7	646.4	646.4	644.6
20°	6076.0	4468.2	1778.1	862.5	701.4	650.1	617.1	593.3	584.2	580.5	578.7
22.5°	5942.3	4081.8	1415.5	741.6	642.8	598.8	556.7	529.2	521.9	518.2	520.1
25°	5704.2	3645.9	1120.7	651.9	589.6	536.5	499.9	479.8	472.5	472.5	474.3
27.5°	5458.8	3190.0	888.1	584.2	525.6	477.9	448.6	435.8	434.0	439.5	441.3
30°	5231.8	2732.2	719.7	529.2	468.8	428.5	408.4	404.7	404.7	406.5	408.4
32.5°	4979.1	2331.1	602.5	481.6	423.0	388.2	377.2	377.2	380.9	380.9	384.6
35°	4819.7	1986.9	529.2	435.8	388.2	358.9	351.6	353.4	358.9	366.2	369.9
37.5°	4733.7	1712.2	481.6	399.2	355.3	335.1	327.8	331.4	344.3	357.1	358.9
40°	4741.0	1505.3	443.2	368.1	329.6	307.6	302.1	313.1	326.0	338.8	340.6
42.5°	4821.6	1351.4	406.5	331.4	307.6	276.5	274.7	285.7	291.2	304.0	305.8
45°	4916.8	1239.7	368.1	293.0	267.4	239.9	241.7	250.9	258.2	278.3	282.0
47.5°	4946.1	1162.8	324.1	249.0	219.7	210.6	212.4	217.9	232.6	250.9	252.7
50°	4979.1	1115.2	282.0	210.6	186.8	185.0	186.8	190.4	199.6	206.9	205.1
52.5°	5120.1	1113.4	247.2	183.1	159.3	163.0	164.8	163.0	155.7	144.7	141.0
54°	5251.9	1118.9	230.7	170.3	146.5	152.0	150.2	141.0	122.7	111.7	106.2
55°	5358.1	1124.4	221.6	161.1	139.2	141.0	142.8	124.5	100.7	89.7	86.1
57.5°	5566.9	1111.5	199.6	141.0	122.7	115.4	113.5	82.4	54.9	47.6	43.9
60°	5462.5	1003.5	181.3	120.9	104.4	93.4	76.9	45.8	27.5	20.1	20.1
62.5°	5052.3	851.5	161.1	98.9	86.1	71.4	40.3	25.6	12.8	7.3	5.5
65°	4519.4	716.0	144.7	78.7	67.8	45.8	22.0	16.5	5.5	0.0	0.0
67.5°	3360.3	531.1	122.7	62.3	51.3	29.3	14.6	9.2	1.8	0.0	0.0
70°	1556.5	324.1	104.4	47.6	36.6	22.0	11.0	5.5	0.0	0.0	0.0
72.5°	446.8	203.3	86.1	34.8	25.6	18.3	9.2	3.7	1.8	0.0	0.0
75°	155.7	163.0	64.1	25.6	20.1	12.8	7.3	3.7	1.8	0.0	0.0
77.5°	93.4	131.8	40.3	22.0	16.5	11.0	7.3	3.7	1.8	1.8	0.0
80°	53.1	87.9	25.6	18.3	14.6	9.2	5.5	3.7	1.8	1.8	0.0
82.5°	29.3	42.1	20.1	16.5	12.8	9.2	5.5	3.7	1.8	1.8	1.8
85°	23.8	22.0	16.5	14.6	11.0	7.3	5.5	1.8	0.0	0.0	0.0
87.5°	18.3	14.6	14.6	14.6	11.0	7.3	5.5	1.8	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

(END OF REPORT)