

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: P455014

Luminaire Tested: **GALN-SA6A-830-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455014
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-830-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17726 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

Input Watts (W): 182
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

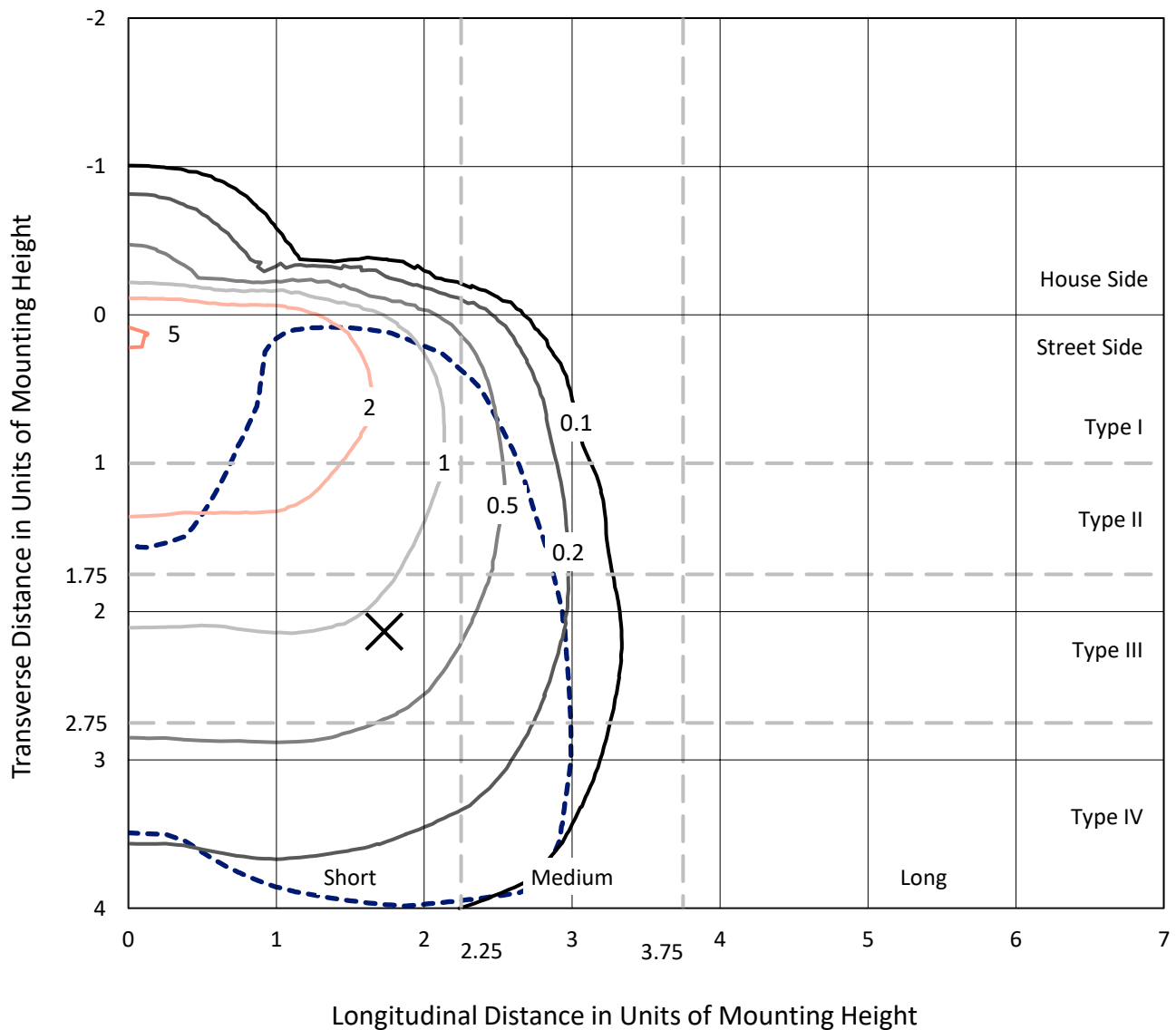


REPORT NUMBER: P455014

CATALOG NUMBER: GALN-SA6A-830-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

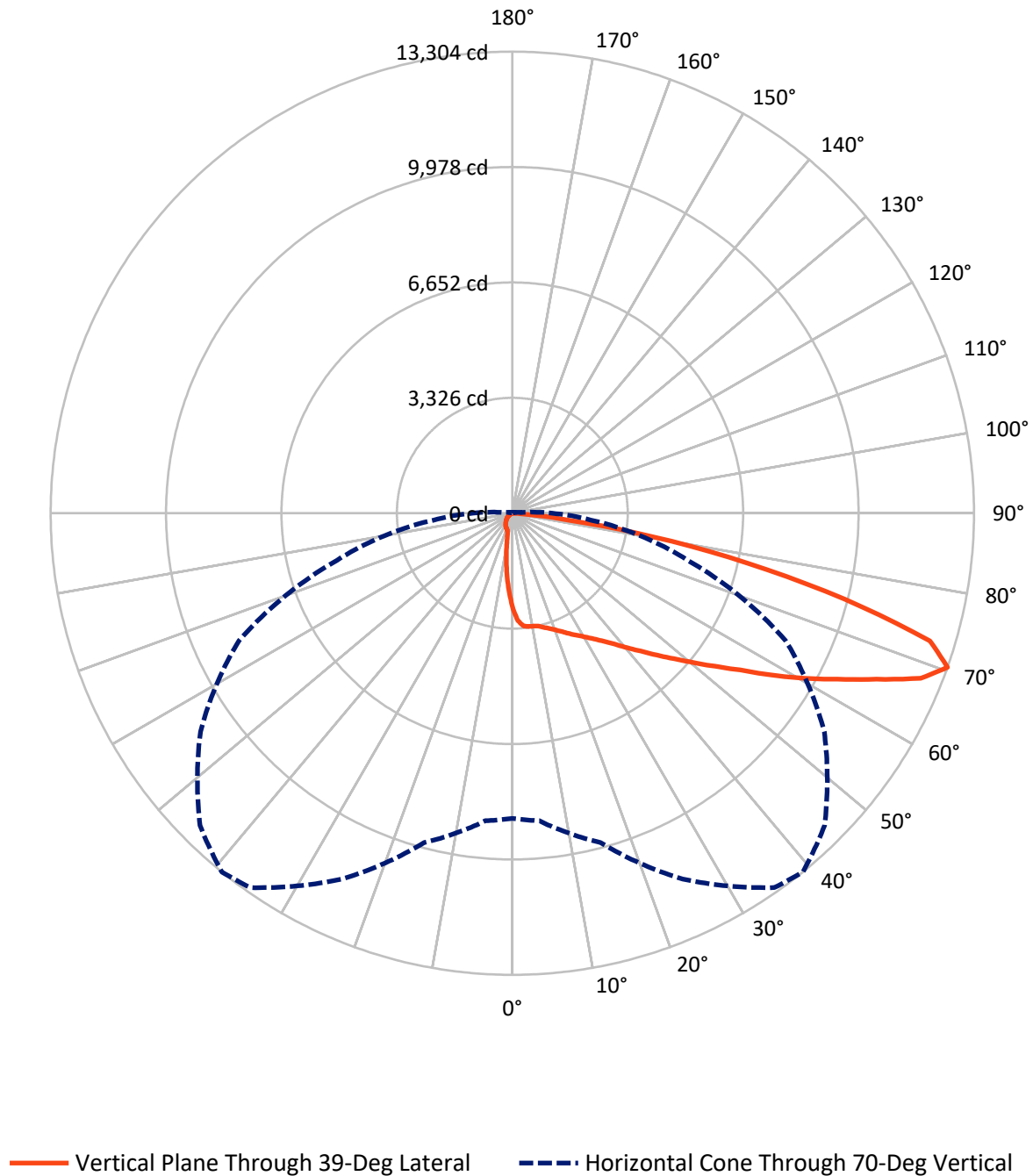
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P455014
CATALOG NUMBER: GALN-SA6A-830-U-SL4-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P455014

CATALOG NUMBER: GALN-SA6A-830-U-SL4-HSS

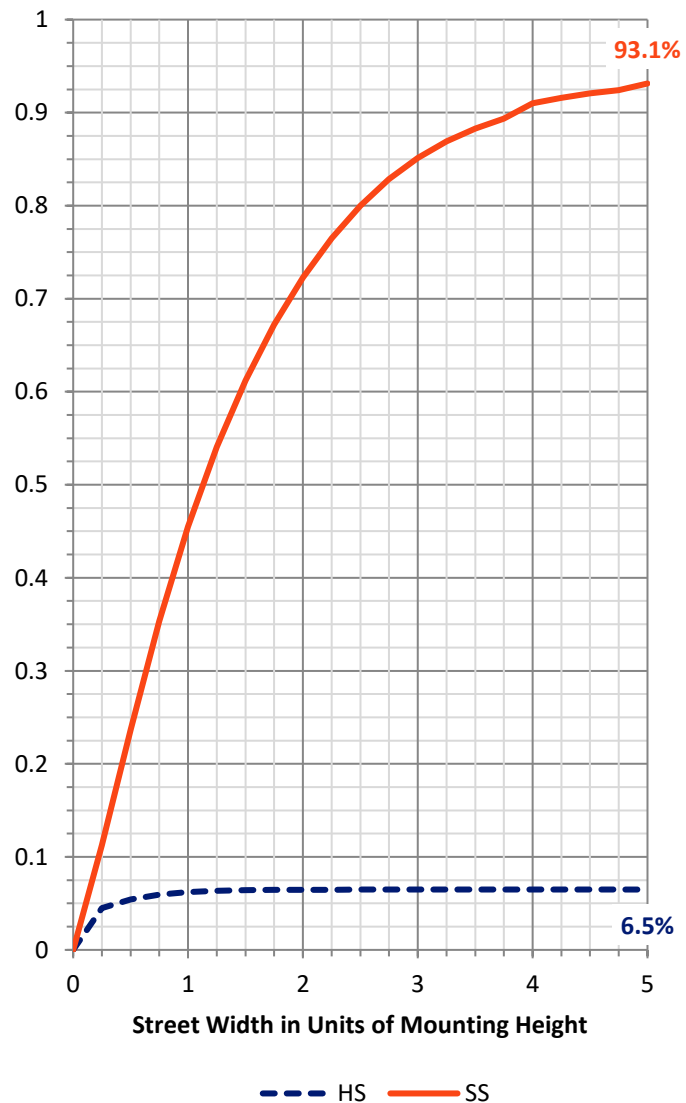
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1155.8	0.0	1155.8
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	16570.2	0.0	16570.2
	% Fixture	93.5	0.0	93.5
Total	Lumens	17726.0	0.0	17726.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.9	1.3
10°-20°	613.1	3.5
20°-30°	1027.0	5.8
30°-40°	1592.8	9.0
40°-50°	2524.1	14.2
50°-60°	3700.0	20.9
60°-70°	4742.5	26.8
70°-80°	2980.0	16.8
80°-90°	310.5	1.8
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°	17726.0	100.0
0°-180°	17726.0	100.0

Coefficient of Utilization



REPORT NUMBER: P455014

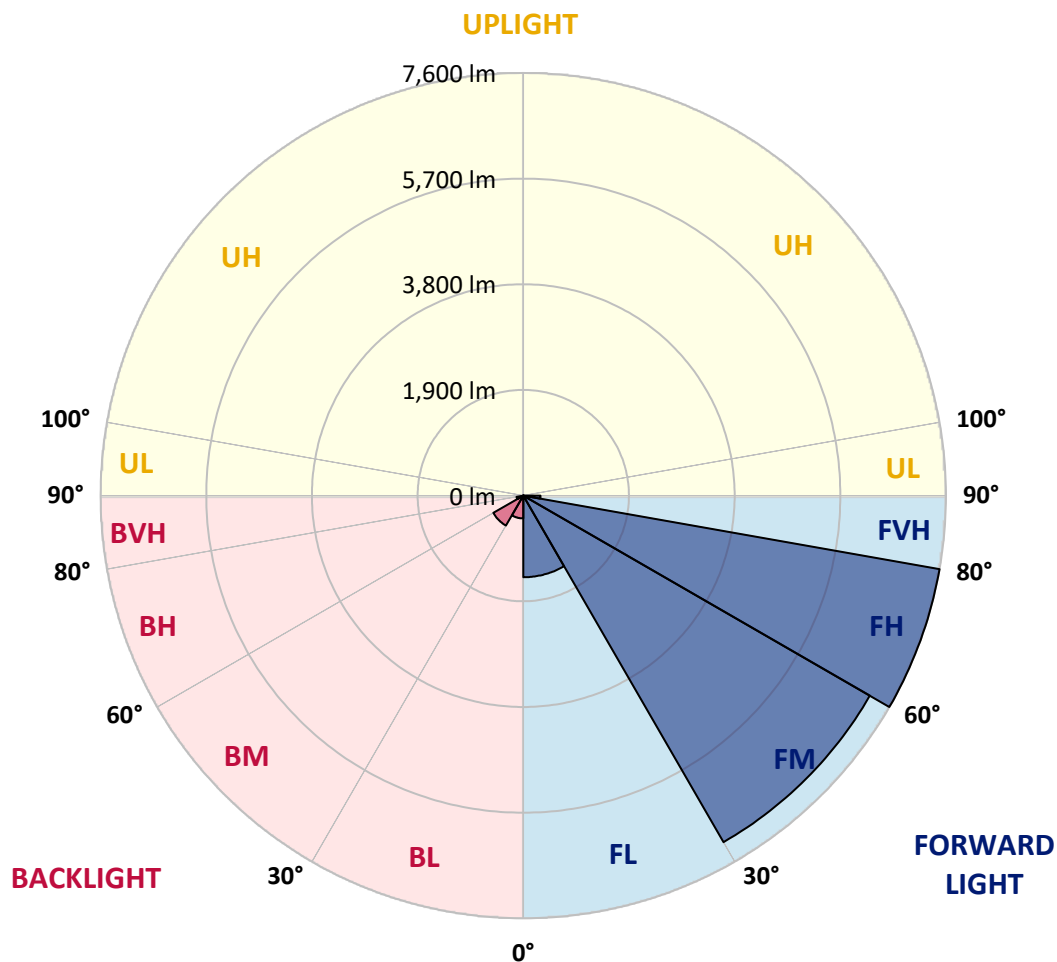
CATALOG NUMBER: GALN-SA6A-830-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1466.7	8.3			
FM	(30°-60°)	7194.9	40.6			
FH	(60°-80°)	7600.3	42.9			G4/12000
FVH	(80°-90°)	308.2	1.7			G3/500
BL	(0°-30°)	409.3	2.3	B1/500		
BM	(30°-60°)	622.0	3.5	B1/1000		
BH	(60°-80°)	122.2	0.7	B1/500		G1/500
BVH	(80°-90°)	2.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type IV Short





REPORT NUMBER: P455014

CATALOG NUMBER: GALN-SA6A-830-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2765.9	2765.9	2765.9	2765.9	2765.9	2765.9	2765.9	2765.9	2765.9	2765.9	2765.9
2.5°	3195.9	3185.2	3170.9	3154.2	3106.5	3098.2	3069.6	3008.9	2936.2	2876.6	2794.5
5°	3347.1	3353.1	3342.4	3312.6	3278.1	3257.8	3222.1	3128.0	3033.9	2913.6	2779.0
7.5°	3381.7	3393.6	3380.5	3351.9	3318.6	3297.1	3268.5	3187.5	3077.9	2941.0	2756.3
10°	3378.1	3392.4	3384.1	3357.9	3330.5	3310.2	3279.3	3214.9	3126.8	2982.7	2763.5
12.5°	3372.2	3391.2	3390.0	3376.9	3354.3	3338.8	3319.8	3262.6	3180.4	3043.4	2802.8
15°	3355.5	3379.3	3400.8	3411.5	3412.7	3412.7	3388.8	3328.1	3249.5	3123.2	2854.0
17.5°	3362.6	3390.0	3443.6	3474.6	3496.0	3493.7	3468.6	3403.1	3316.2	3205.4	2907.6
20°	3406.7	3443.6	3518.7	3580.6	3602.1	3594.9	3561.6	3485.3	3386.5	3275.7	2960.0
22.5°	3515.1	3548.5	3642.6	3715.2	3730.7	3711.6	3664.0	3560.4	3471.0	3351.9	3023.2
25°	3677.1	3716.4	3803.4	3858.2	3858.2	3847.4	3780.7	3659.2	3566.3	3457.9	3105.3
27.5°	3873.6	3907.0	3992.8	4041.6	4013.0	3982.0	3915.3	3768.8	3679.5	3591.3	3204.2
30°	4072.6	4094.0	4184.5	4206.0	4176.2	4136.9	4065.4	3918.9	3840.3	3772.4	3347.1
32.5°	4260.8	4307.2	4382.3	4377.5	4337.0	4317.9	4252.4	4096.4	4052.3	4045.2	3547.3
35°	4449.0	4484.7	4551.4	4568.1	4532.3	4528.8	4481.1	4365.6	4366.8	4413.2	3859.3
37.5°	4611.0	4643.1	4721.7	4758.7	4765.8	4783.7	4764.6	4688.4	4796.8	4924.2	4272.7
40°	4746.8	4792.0	4892.1	4956.4	5030.3	5095.8	5099.3	5116.0	5334.0	5553.2	4812.3
42.5°	4852.8	4915.9	5061.2	5180.3	5349.5	5432.9	5499.6	5591.3	5958.2	6285.7	5448.3
45°	4990.9	5063.6	5244.7	5431.7	5696.1	5833.1	5926.0	6171.4	6691.9	7138.6	6101.1
47.5°	5219.6	5257.8	5442.4	5715.2	6063.0	6258.3	6439.4	6811.0	7479.3	7879.5	6644.3
50°	5513.9	5538.9	5678.2	6057.0	6507.3	6764.6	7094.5	7531.7	8296.4	8494.1	6951.6
52.5°	5839.0	5847.4	5952.2	6433.4	7005.2	7329.2	7698.4	8238.0	8962.3	8932.5	7155.3
55°	6216.6	6204.7	6294.1	6842.0	7594.8	7965.3	8395.3	8961.1	9540.0	9243.4	7272.0
57.5°	6649.0	6616.9	6703.8	7384.0	8350.0	8793.1	9230.3	9585.2	9987.8	9504.2	7328.0
60°	7101.7	7037.3	7141.0	7992.7	9239.8	9660.3	10023.6	10118.9	10459.5	9711.5	7231.5
62.5°	7462.6	7463.8	7656.8	8640.6	10154.6	10522.7	10715.6	10801.4	10865.7	9666.2	6724.1
65°	8026.0	8045.1	8353.6	9540.0	11213.5	11532.8	11665.0	11386.3	10883.6	9104.0	5961.7
67.5°	8607.3	8668.0	9232.6	10778.8	12436.9	12694.1	12523.8	11499.4	10397.6	7821.1	4520.4
70°	8796.7	8896.7	9827.0	11631.6	13170.6	13304.0	12727.5	10971.7	8691.9	5229.2	2275.1
72.5°	8060.6	8222.5	9485.2	11320.7	12702.5	12586.9	11387.5	9201.7	5525.8	1985.7	694.4
75°	5684.2	5755.7	7883.1	9391.1	10216.5	9889.0	8662.1	5932.0	2272.7	557.5	238.2
77.5°	2935.0	2900.5	4688.4	6230.9	7286.3	6946.8	5672.3	3070.8	861.2	232.3	147.7
80°	1517.5	1542.5	2028.5	3265.0	4447.8	4092.8	3024.3	1423.4	458.6	128.6	113.2
82.5°	850.5	798.1	1166.1	1425.8	2079.8	1630.7	1160.2	1007.7	200.1	77.4	107.2
85°	154.9	162.0	639.7	770.7	721.8	458.6	374.0	673.0	58.4	42.9	75.0
87.5°	2.4	2.4	123.9	221.6	140.6	64.3	117.9	96.5	11.9	16.7	13.1
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: P455014

CATALOG NUMBER: GALN-SA6A-830-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2765.9	2765.9	2765.9	2765.9	2765.9	2765.9	2765.9	2765.9	2765.9	2765.9	2765.9
2.5°	2752.8	2707.5	2622.9	2539.5	2433.5	2346.6	2288.2	2227.5	2165.5	2170.3	2184.6
5°	2705.1	2626.5	2459.7	2283.4	2114.3	1961.8	1811.7	1677.1	1622.4	1572.3	1574.7
7.5°	2657.5	2546.7	2302.5	2026.2	1770.1	1510.4	1322.2	1167.3	1085.1	1023.2	1005.3
10°	2636.0	2489.5	2158.4	1778.4	1415.1	1131.6	889.8	763.5	665.9	634.9	643.2
12.5°	2645.6	2460.9	2028.5	1554.5	1122.1	788.5	619.4	555.1	533.6	530.1	527.7
15°	2663.4	2440.7	1901.1	1306.7	824.3	586.0	520.5	508.6	506.2	503.9	505.1
17.5°	2687.2	2422.8	1765.3	1074.4	632.5	512.2	493.1	487.2	486.0	486.0	486.0
20°	2711.1	2402.6	1614.0	867.2	527.7	483.6	471.7	468.1	466.9	466.9	465.7
22.5°	2738.5	2384.7	1460.4	681.3	486.0	463.4	452.6	450.3	449.1	447.9	447.9
25°	2777.8	2362.1	1297.2	557.5	459.8	444.3	433.6	431.2	430.0	425.2	426.4
27.5°	2830.2	2345.4	1129.2	481.2	436.0	420.5	413.3	409.8	407.4	403.8	405.0
30°	2901.7	2331.1	950.5	439.5	408.6	395.5	388.3	385.9	383.6	380.0	380.0
32.5°	3025.5	2337.0	762.3	406.2	383.6	368.1	360.9	358.5	356.2	352.6	352.6
35°	3211.4	2371.6	609.9	377.6	353.8	338.3	331.1	331.1	327.6	322.8	321.6
37.5°	3515.1	2459.7	489.6	350.2	325.2	310.9	302.6	300.2	296.6	289.5	288.3
40°	3873.6	2596.7	412.1	322.8	299.0	284.7	277.5	270.4	260.9	253.7	252.5
42.5°	4323.9	2737.3	357.3	295.4	274.0	260.9	252.5	240.6	226.3	216.8	215.6
45°	4793.2	2865.9	320.4	270.4	250.1	239.4	229.9	210.8	193.0	181.1	179.9
47.5°	5143.4	2889.7	290.6	246.6	229.9	219.2	206.1	182.2	158.4	147.7	144.1
50°	5309.0	2774.2	259.7	222.7	209.6	197.7	181.1	153.7	127.5	114.4	112.0
52.5°	5367.3	2574.1	234.7	201.3	189.4	175.1	154.9	123.9	100.1	87.0	85.8
55°	5343.5	2321.6	212.0	181.1	165.6	148.9	128.6	98.9	73.9	63.1	60.7
57.5°	5218.5	2000.0	189.4	160.8	141.7	125.1	102.4	73.9	50.0	40.5	39.3
60°	4881.4	1561.6	166.8	138.2	120.3	102.4	81.0	52.4	31.0	22.6	22.6
62.5°	4312.0	1159.0	145.3	115.5	101.2	82.2	57.2	33.4	16.7	11.9	10.7
65°	3603.2	855.2	121.5	97.7	84.6	64.3	40.5	20.2	8.3	3.6	2.4
67.5°	2514.5	527.7	101.2	79.8	69.1	46.5	25.0	8.3	3.6	0.0	0.0
70°	1142.3	251.3	77.4	60.7	52.4	33.4	13.1	4.8	2.4	0.0	0.0
72.5°	355.0	132.2	54.8	44.1	35.7	21.4	7.1	3.6	2.4	0.0	0.0
75°	164.4	84.6	34.5	23.8	20.2	10.7	4.8	2.4	1.2	0.0	0.0
77.5°	122.7	65.5	20.2	13.1	10.7	7.1	3.6	2.4	1.2	0.0	0.0
80°	107.2	33.4	11.9	8.3	6.0	4.8	2.4	1.2	0.0	0.0	0.0
82.5°	96.5	16.7	7.1	4.8	3.6	2.4	1.2	1.2	0.0	0.0	0.0
85°	52.4	9.5	4.8	3.6	2.4	1.2	1.2	0.0	0.0	0.0	0.0
87.5°	9.5	4.8	3.6	2.4	2.4	1.2	1.2	1.2	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)