

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: P455027

Luminaire Tested: **GALN-SA6A-830-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455027
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
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-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16872 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

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

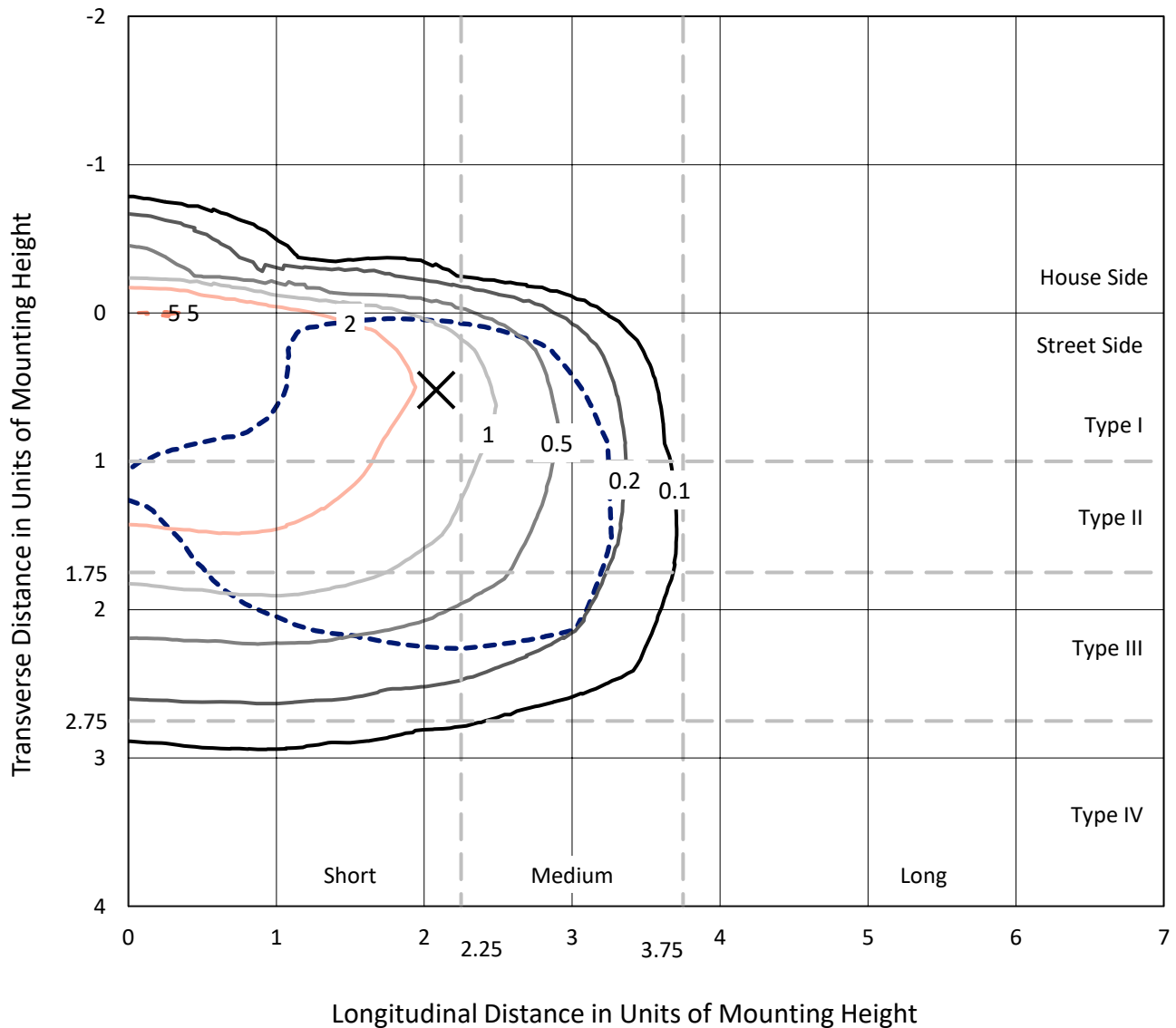


REPORT NUMBER: P455027

CATALOG NUMBER: GALN-SA6A-830-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

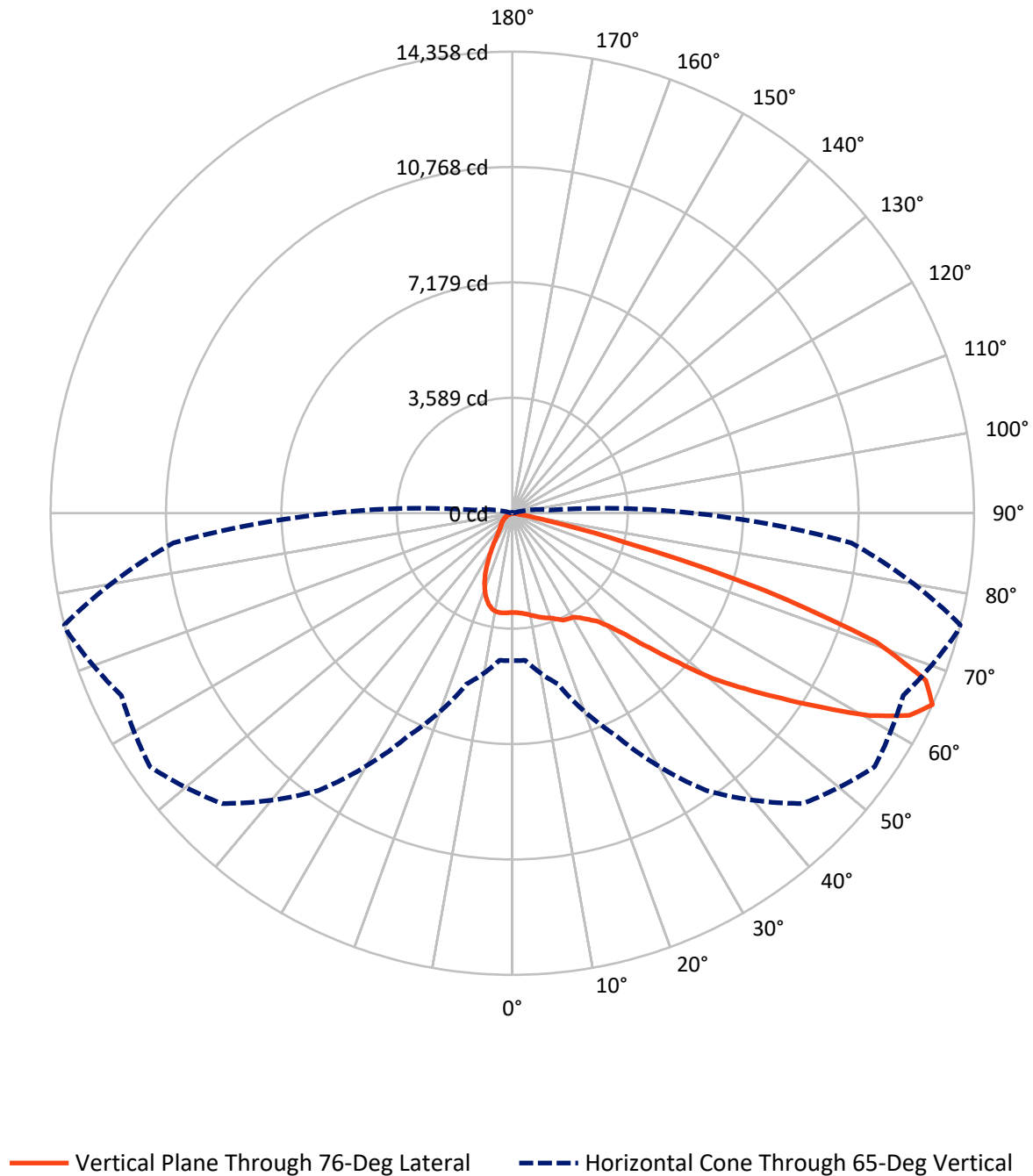


Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Short - N/A

REPORT NUMBER: P455027

CATALOG NUMBER: GALN-SA6A-830-U-T3R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P455027

CATALOG NUMBER: GALN-SA6A-830-U-T3R-HSS

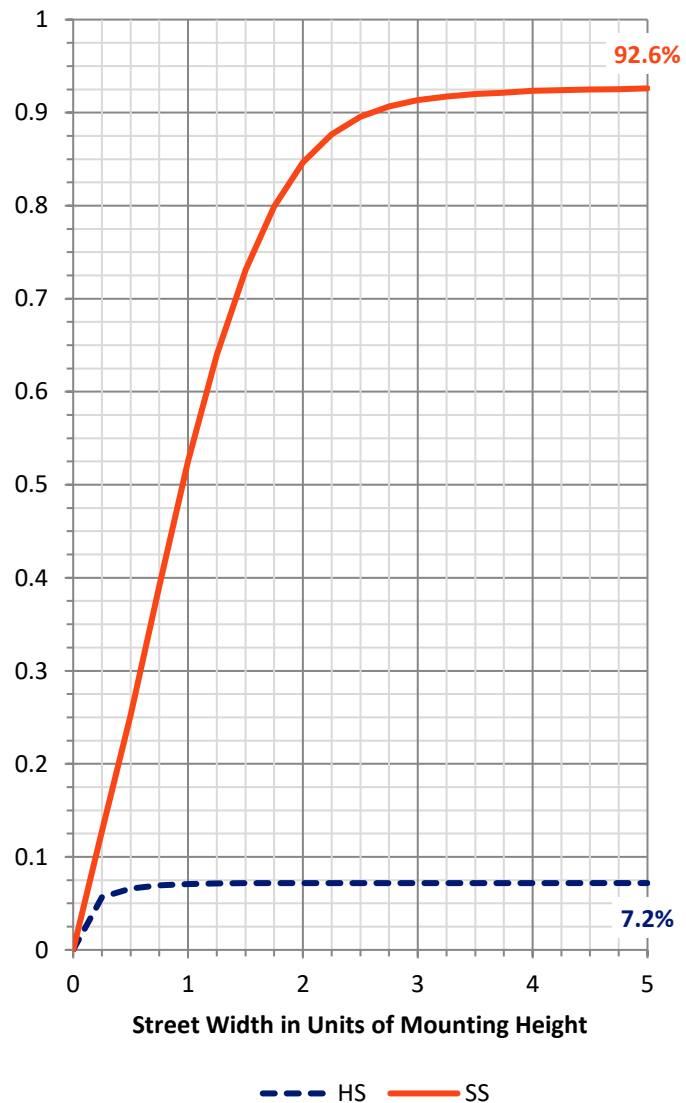
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1218.5	0.0	1218.5
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	15653.5	0.0	15653.5
	% Fixture	92.8	0.0	92.8
Total	Lumens	16872.0	0.0	16872.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.2	1.5
10°-20°	566.1	3.4
20°-30°	912.2	5.4
30°-40°	1586.1	9.4
40°-50°	2621.0	15.5
50°-60°	4048.9	24.0
60°-70°	4944.3	29.3
70°-80°	1876.5	11.1
80°-90°	62.6	0.4
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°	16872.0	100.0
0°-180°	16872.0	100.0

Coefficient of Utilization



REPORT NUMBER: P455027

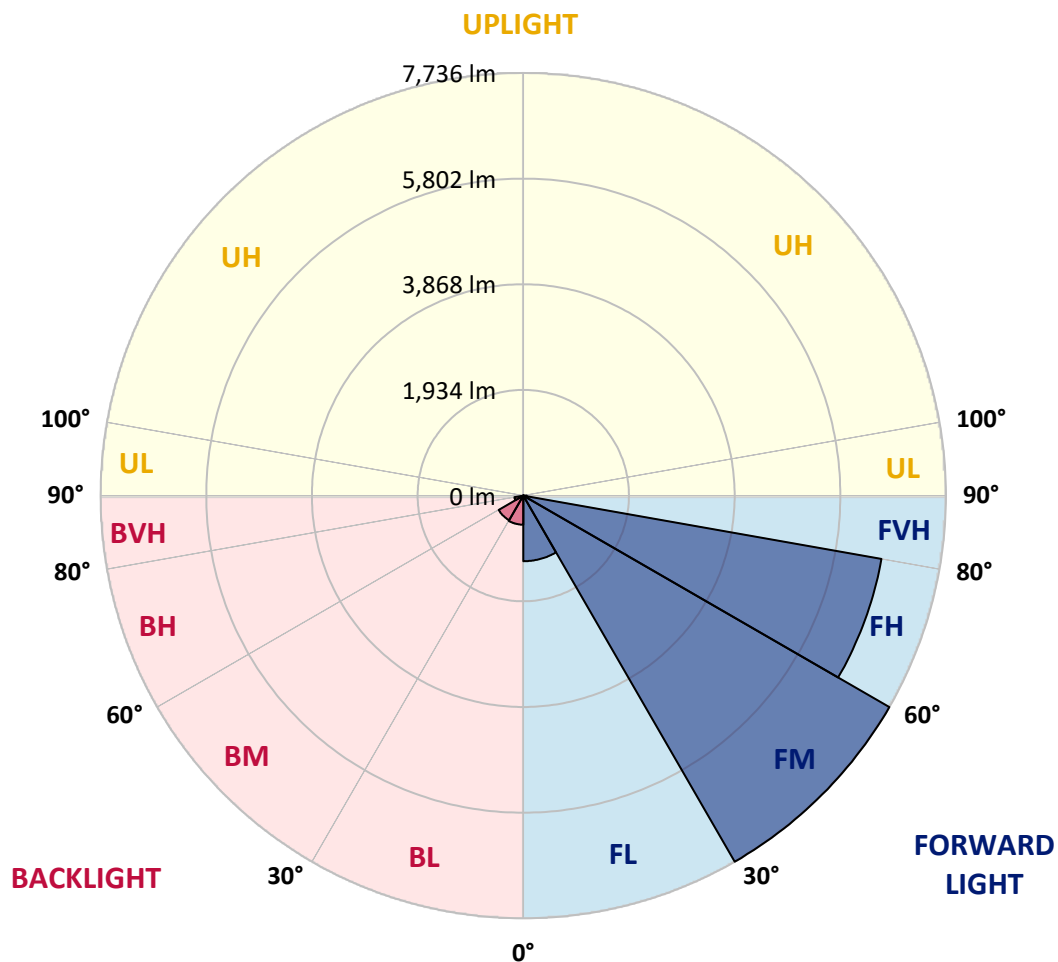
CATALOG NUMBER: GALN-SA6A-830-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1200.2	7.1			
FM	(30°-60°)	7736.1	45.9			
FH	(60°-80°)	6655.4	39.4			G3/7500
FVH	(80°-90°)	61.8	0.4			G1/100
BL	(0°-30°)	532.3	3.2	B2/1000		
BM	(30°-60°)	520.0	3.1	B1/1000		
BH	(60°-80°)	165.3	1.0	B1/500		G1/500
BVH	(80°-90°)	0.9	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-G3

Type III Short





REPORT NUMBER: P455027

CATALOG NUMBER: GALN-SA6A-830-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3086.4	3086.4	3086.4	3086.4	3086.4	3086.4	3086.4	3086.4	3086.4	3086.4	3086.4
2.5°	2949.4	2950.6	2957.8	2975.6	3003.0	3025.7	3044.7	3075.7	3097.1	3099.5	3106.7
5°	2745.7	2731.4	2745.7	2792.2	2833.9	2897.0	2974.5	3051.9	3121.0	3125.7	3159.1
7.5°	2517.0	2528.9	2551.6	2599.2	2677.8	2774.3	2886.3	3024.5	3155.5	3167.4	3232.9
10°	2284.7	2310.9	2347.9	2420.5	2530.1	2655.2	2807.7	3005.4	3210.3	3227.0	3340.2
12.5°	2070.3	2082.2	2127.5	2225.2	2361.0	2537.3	2748.1	2994.7	3271.1	3291.3	3454.5
15°	1905.9	1921.4	1960.7	2048.9	2200.2	2426.5	2699.3	2991.1	3330.6	3359.2	3568.9
17.5°	1875.0	1884.5	1901.2	1960.7	2093.0	2338.3	2655.2	2989.9	3387.8	3422.3	3674.9
20°	2002.4	1994.1	1977.4	1971.5	2044.1	2270.4	2623.0	2999.5	3442.6	3481.9	3786.9
22.5°	2321.7	2332.4	2234.7	2119.2	2095.3	2259.7	2618.3	3044.7	3529.6	3576.0	3911.9
25°	2999.5	2917.3	2764.8	2488.4	2280.0	2325.2	2671.9	3151.9	3630.8	3682.0	4025.1
27.5°	3748.7	3723.7	3486.7	3031.6	2643.3	2463.4	2767.2	3234.1	3664.2	3716.6	4089.4
30°	4484.9	4514.7	4243.1	3740.4	3171.0	2719.5	2856.5	3265.1	3693.9	3748.7	4171.6
32.5°	5167.5	5203.2	4965.0	4467.0	3792.8	3162.7	3010.2	3385.4	3819.0	3875.0	4308.6
35°	5704.7	5709.5	5529.6	5132.9	4471.8	3701.1	3342.5	3596.3	3988.2	4053.7	4453.9
37.5°	6197.9	6190.7	5979.9	5638.0	5037.6	4235.9	3760.7	3839.3	4181.2	4249.0	4663.6
40°	6563.6	6568.3	6500.4	6178.8	5565.3	4730.3	4091.8	4066.8	4505.2	4611.2	4968.5
42.5°	6807.8	6851.8	6885.2	6722.0	6228.8	5339.0	4600.5	4554.0	5067.4	5155.6	5399.8
45°	7005.5	7084.1	7250.9	7242.6	6866.1	6085.9	5298.5	5203.2	5864.3	5958.4	5948.9
47.5°	7149.6	7229.5	7505.8	7672.6	7465.3	6810.2	6176.4	6094.2	6816.1	6918.6	6555.2
50°	7223.5	7318.8	7671.4	7994.2	7933.5	7508.2	7177.0	7181.8	7965.6	8064.5	7258.0
52.5°	7050.8	7174.7	7759.5	8340.9	8458.8	8176.5	8114.5	8271.8	8988.9	9073.5	7893.0
55°	6499.2	6655.3	7639.2	8636.3	9067.5	8965.1	9179.5	9418.9	10107.4	10162.2	8544.6
57.5°	6150.2	6315.8	7284.3	8887.6	9798.9	9956.1	10295.6	10470.7	11261.7	11401.1	9292.6
60°	5856.0	5985.8	6992.4	8941.2	10542.2	11168.8	11498.8	11679.8	12686.4	12776.9	10115.8
62.5°	5366.4	5515.3	6499.2	8567.2	10916.3	12139.6	12823.4	12742.4	13788.3	13851.4	10620.8
65°	4579.0	4592.1	5498.6	7627.3	10530.3	12769.8	13753.7	13414.2	14314.8	14357.7	10581.5
67.5°	3417.6	3543.9	4230.0	5995.4	8894.8	12231.4	14055.1	13432.1	13982.4	13863.3	9741.7
70°	2201.4	2297.8	2867.2	4157.3	6413.5	10207.5	13055.7	12511.3	12271.9	12007.4	7974.0
72.5°	1016.1	1140.0	1703.4	2375.3	3803.5	7271.2	10598.2	10164.6	8832.8	8180.0	5068.6
75°	443.1	474.1	841.0	1253.2	1783.2	3845.2	6987.6	6309.8	3989.4	3643.9	2028.6
77.5°	270.4	290.7	440.7	671.8	700.4	1465.2	3764.2	2752.9	1232.9	1087.6	550.3
80°	183.4	206.1	320.4	351.4	239.4	408.6	1412.8	735.0	249.0	238.2	117.9
82.5°	89.3	113.2	237.1	196.5	103.6	131.0	411.0	157.2	72.7	67.9	41.7
85°	13.1	22.6	133.4	128.7	46.5	31.0	72.7	39.3	25.0	23.8	19.1
87.5°	0.0	0.0	45.3	20.3	4.8	4.8	8.3	8.3	9.5	8.3	9.5
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: P455027

CATALOG NUMBER: GALN-SA6A-830-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3086.4	3086.4	3086.4	3086.4	3086.4	3086.4	3086.4	3086.4	3086.4	3086.4	3086.4
2.5°	3110.3	3116.2	3093.6	3061.4	3026.9	2992.3	2943.5	2899.4	2873.2	2888.7	2850.6
5°	3166.2	3161.5	3101.9	3004.2	2874.4	2718.3	2563.5	2431.3	2388.4	2324.1	2316.9
7.5°	3243.7	3230.6	3104.3	2880.3	2587.3	2294.3	2008.4	1819.0	1710.6	1618.9	1621.2
10°	3352.1	3313.9	3076.9	2662.4	2179.9	1738.0	1373.5	1123.3	1014.9	980.4	953.0
12.5°	3464.0	3390.2	3000.7	2368.1	1697.5	1187.6	835.0	682.6	615.9	594.4	592.0
15°	3564.1	3447.4	2867.2	2014.3	1234.1	758.8	569.4	519.4	511.0	512.2	511.0
17.5°	3663.0	3492.6	2682.6	1639.1	838.6	544.4	489.6	477.7	481.2	486.0	484.8
20°	3745.2	3502.2	2446.7	1250.8	593.2	477.7	459.8	457.4	461.0	464.6	464.6
22.5°	3834.5	3509.3	2166.8	866.0	484.8	444.3	434.8	434.8	439.6	444.3	445.5
25°	3901.2	3470.0	1832.1	621.8	427.6	412.2	407.4	408.6	413.4	415.7	414.5
27.5°	3911.9	3359.2	1477.1	476.5	388.3	372.8	368.1	372.8	366.9	370.5	368.1
30°	3921.5	3218.7	1117.4	401.4	352.6	328.8	321.6	314.5	309.7	303.8	302.6
32.5°	3951.2	3053.1	816.0	360.9	319.2	293.0	276.4	256.1	240.6	235.9	234.7
35°	3964.3	2854.1	599.2	328.8	289.5	260.9	231.1	202.5	179.9	171.5	177.5
37.5°	4014.4	2661.2	464.6	304.9	263.3	227.5	189.4	153.7	132.2	127.5	129.8
40°	4116.8	2451.5	389.5	284.7	240.6	196.5	150.1	115.5	101.3	96.5	95.3
42.5°	4281.2	2243.0	346.6	265.6	218.0	165.6	117.9	90.5	78.6	75.0	75.0
45°	4481.3	2042.9	316.9	245.4	194.2	133.4	92.9	72.7	65.5	63.1	63.1
47.5°	4744.6	1867.8	291.8	225.1	168.0	106.0	75.0	63.1	58.4	59.6	60.8
50°	5011.4	1738.0	264.4	202.5	138.2	87.0	64.3	56.0	54.8	56.0	56.0
52.5°	5212.7	1661.7	227.5	171.5	108.4	72.7	57.2	52.4	51.2	48.8	48.8
55°	5484.3	1645.1	181.1	139.4	85.8	60.8	51.2	47.6	44.1	41.7	40.5
57.5°	5833.4	1664.1	139.4	108.4	66.7	50.0	45.3	39.3	34.5	29.8	29.8
60°	6050.2	1621.2	108.4	83.4	48.8	40.5	34.5	28.6	22.6	19.1	17.9
62.5°	5981.1	1440.2	85.8	61.9	34.5	29.8	22.6	19.1	13.1	9.5	8.3
65°	5624.9	1162.6	69.1	42.9	25.0	17.9	11.9	11.9	6.0	1.2	0.0
67.5°	4923.3	861.2	54.8	28.6	14.3	8.3	6.0	3.6	0.0	0.0	0.0
70°	4007.2	621.8	42.9	17.9	8.3	6.0	2.4	1.2	0.0	0.0	0.0
72.5°	2544.4	356.2	33.4	10.7	6.0	2.4	0.0	0.0	0.0	0.0	0.0
75°	983.9	139.4	22.6	7.1	2.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	278.7	65.5	13.1	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	72.7	28.6	7.1	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	34.5	11.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.3	4.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0	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)