

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: P457117

Luminaire Tested: **GALN-SA8B-830-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457117
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8B-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26292 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 325
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

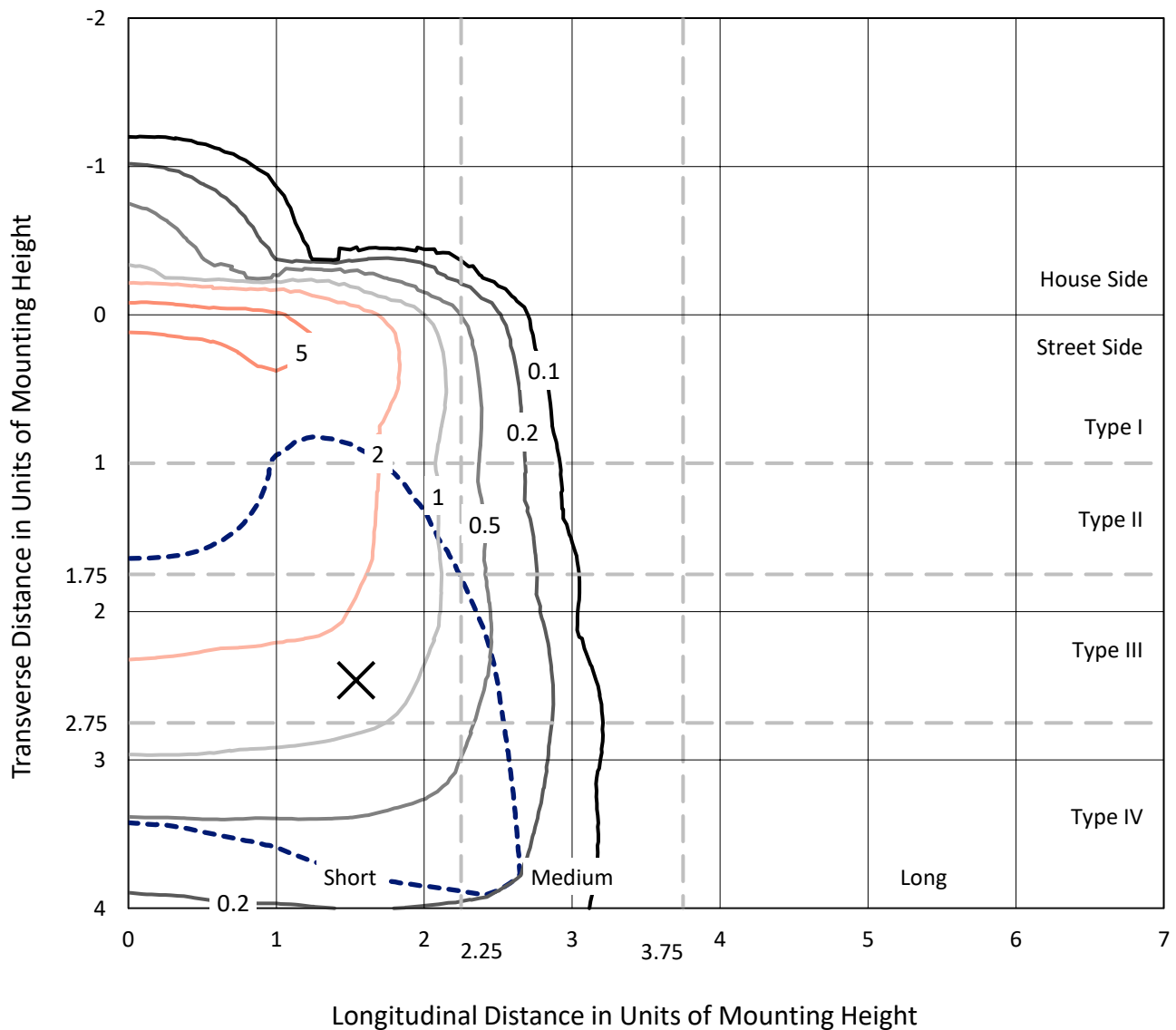


REPORT NUMBER: P457117

CATALOG NUMBER: GALN-SA8B-830-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

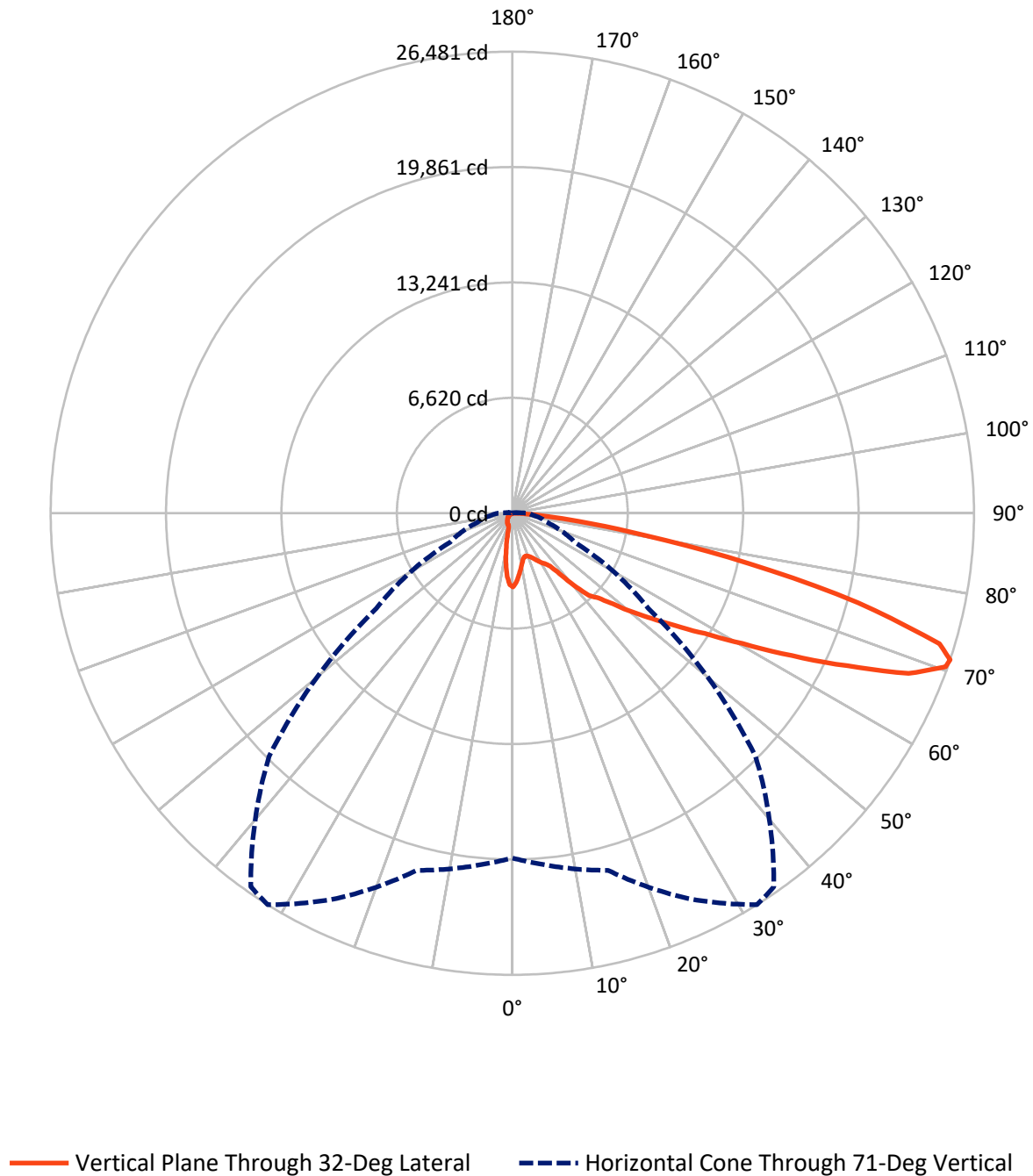
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P457117
CATALOG NUMBER: GALN-SA8B-830-U-T4FT-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P457117

CATALOG NUMBER: GALN-SA8B-830-U-T4FT-HSS

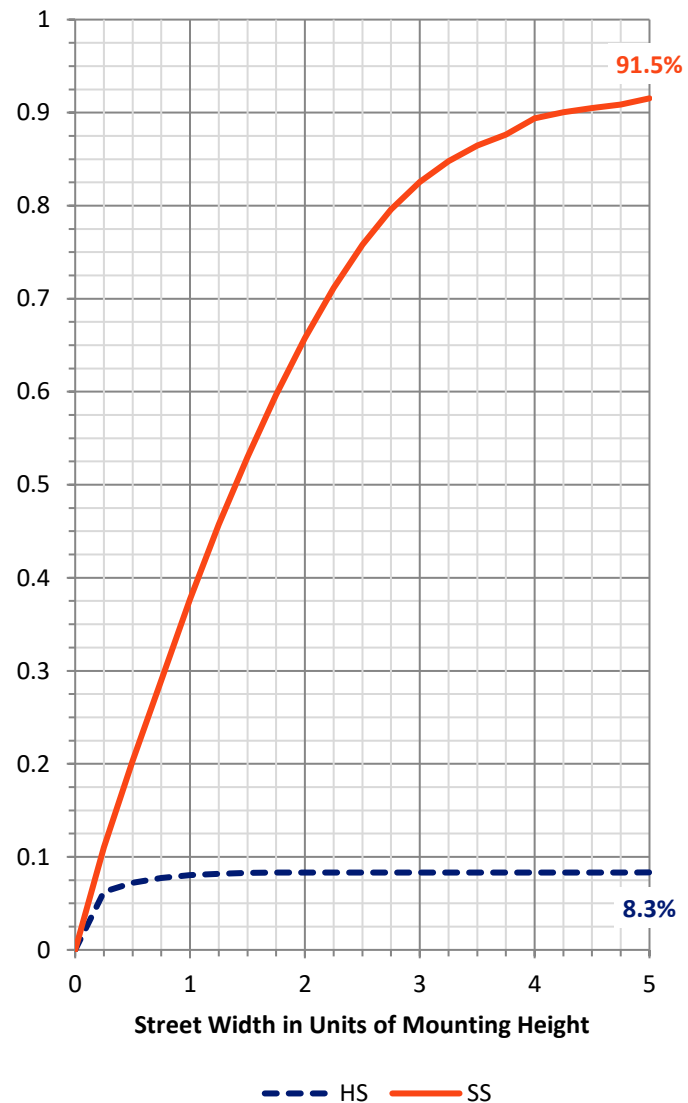
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2202.2	0.0	2202.2
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	24089.8	0.0	24089.8
	% Fixture	91.6	0.0	91.6
Total	Lumens	26292.0	0.0	26292.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.8	1.3
10°-20°	746.2	2.8
20°-30°	1160.8	4.4
30°-40°	1933.9	7.4
40°-50°	3597.4	13.7
50°-60°	5775.8	22.0
60°-70°	7768.6	29.5
70°-80°	4609.2	17.5
80°-90°	356.3	1.4
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°	26292.0	100.0
0°-180°	26292.0	100.0

Coefficient of Utilization



REPORT NUMBER: P457117

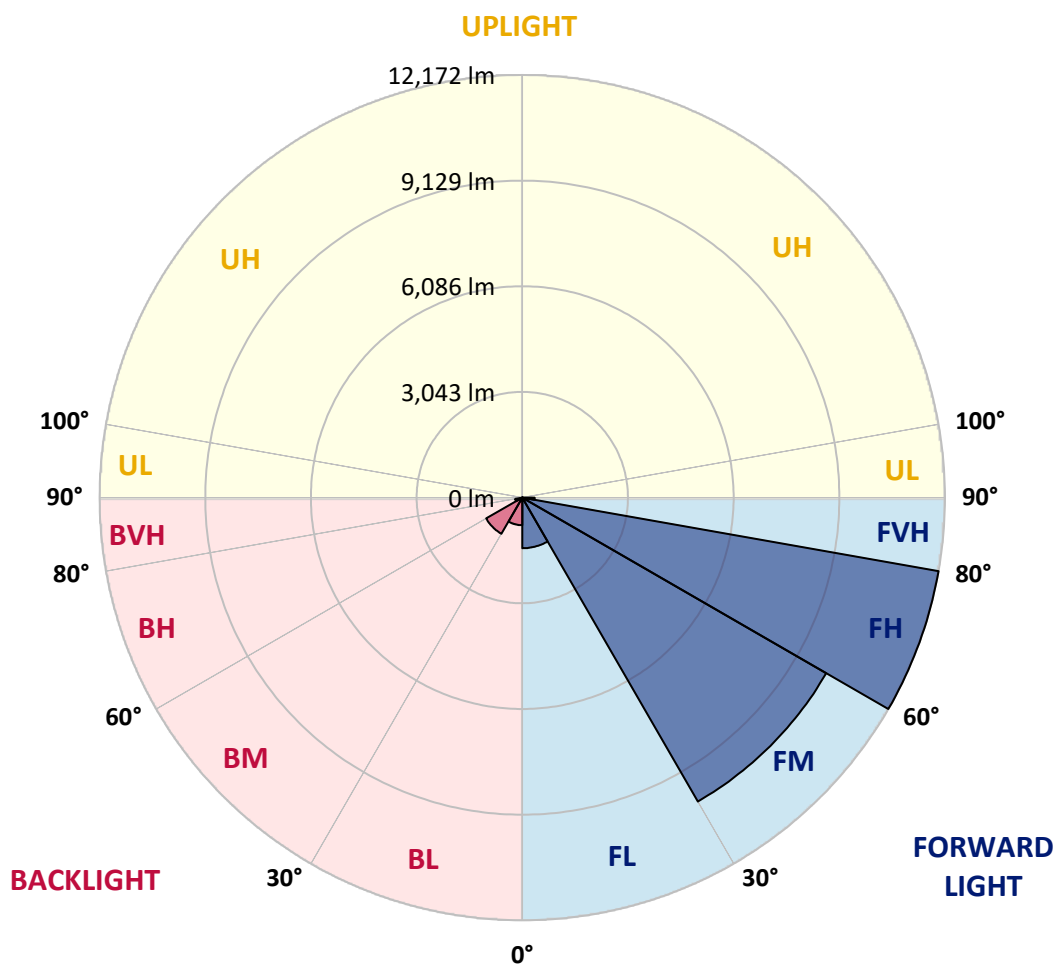
CATALOG NUMBER: GALN-SA8B-830-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1457.3	5.5			
FM	(30°-60°)	10105.7	38.4			
FH	(60°-80°)	12171.9	46.3			G5
FVH	(80°-90°)	354.9	1.3			G3/500
BL	(0°-30°)	793.5	3.0	B2/1000		
BM	(30°-60°)	1201.4	4.6	B2/2500		
BH	(60°-80°)	206.0	0.8	B1/500		G1/500
BVH	(80°-90°)	1.4	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-G5

Type IV Short





REPORT NUMBER: P457117

CATALOG NUMBER: GALN-SA8B-830-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	4228.2	4228.2	4228.2	4228.2	4228.2	4228.2	4228.2	4228.2	4228.2	4228.2	4228.2
2.5°	3921.4	3961.8	3955.7	3969.8	4004.1	4018.3	4056.6	4099.0	4157.5	4197.9	4224.1
5°	3511.7	3542.0	3546.0	3616.6	3651.0	3689.3	3802.3	3925.4	4062.7	4171.7	4244.3
7.5°	3073.7	3089.9	3122.2	3215.0	3301.8	3340.1	3511.7	3725.6	3941.6	4145.4	4276.6
10°	2712.5	2730.6	2789.2	2888.1	2968.8	3019.3	3257.4	3525.8	3828.6	4131.3	4323.0
12.5°	2506.6	2516.7	2538.9	2627.7	2730.6	2785.1	3041.5	3348.2	3737.7	4137.3	4401.7
15°	2492.5	2488.5	2462.2	2498.6	2591.4	2647.9	2898.2	3227.1	3657.0	4157.5	4494.6
17.5°	2567.2	2557.1	2494.5	2494.5	2571.2	2617.6	2837.6	3162.5	3616.6	4203.9	4625.8
20°	2682.2	2666.1	2563.1	2555.1	2629.7	2678.2	2873.9	3166.6	3624.7	4290.7	4801.3
22.5°	2827.5	2809.4	2654.0	2658.0	2738.7	2787.2	2978.9	3239.2	3675.2	4397.7	4989.0
25°	3017.2	2997.1	2813.4	2805.3	2890.1	2932.5	3134.3	3368.4	3745.8	4530.9	5235.3
27.5°	3269.5	3227.1	3007.1	2995.0	3085.9	3140.3	3322.0	3542.0	3870.9	4714.6	5566.2
30°	3477.4	3431.0	3221.1	3188.8	3285.7	3328.0	3515.7	3776.1	4117.2	5035.5	6024.4
32.5°	3749.8	3681.2	3435.0	3350.2	3453.2	3507.7	3796.3	4212.0	4482.5	5374.5	6569.3
35°	4363.4	4321.0	4020.3	3723.6	3717.6	3786.2	4210.0	4652.0	4857.8	5903.3	7312.0
37.5°	5241.3	5211.0	4892.2	4494.6	4379.5	4347.2	4712.5	5136.4	5457.3	6629.8	8175.8
40°	6260.5	6189.9	5897.2	5560.2	5410.8	5316.0	5305.9	5856.9	6240.3	7616.8	9075.9
42.5°	6991.1	6861.9	6506.7	6482.5	6450.2	6351.3	6064.7	6910.4	7251.5	8678.3	10038.6
45°	7758.0	7562.3	7033.5	6942.7	6930.6	6924.5	7211.1	8157.6	8353.4	9828.7	11027.5
47.5°	8353.4	8198.0	7764.1	7723.7	7774.2	7911.4	8726.8	9481.6	9441.2	10854.0	11857.0
50°	9146.6	9029.5	8547.1	8623.8	8884.2	9108.2	10436.2	10924.6	10335.3	11661.3	12460.5
52.5°	10083.0	9867.1	9419.0	9626.9	10026.5	10399.9	12250.6	12188.0	10963.0	12268.7	12910.5
55°	10894.3	10741.0	10587.6	10803.5	11400.9	11867.1	13889.4	13134.6	11419.1	12757.1	13108.3
57.5°	12266.7	12230.4	12073.0	12293.0	13017.5	13501.9	15356.6	13869.2	11711.7	13011.4	12876.2
60°	14297.0	14238.5	13945.9	14226.4	15170.9	15931.8	16708.8	14529.1	11778.3	12912.6	12208.2
62.5°	16739.1	16539.3	16289.0	16702.8	17998.5	18333.5	17982.3	14920.7	11530.1	12125.4	10597.7
65°	19019.7	18813.8	18819.9	19691.7	21102.5	21330.5	19467.7	14862.1	10803.5	10153.6	7816.6
67.5°	20765.4	20731.1	20977.3	22678.7	24523.4	24365.9	20795.7	13986.2	8650.1	6581.4	4153.5
70°	20854.2	20920.8	21627.2	24499.1	26372.0	26121.8	20682.7	11368.6	5392.7	3027.3	1636.8
71°	19780.5	20228.6	21205.4	24442.6	26481.0	26156.1	19730.1	9521.9	3955.7	2111.1	1180.7
72.5°	16856.1	17092.3	19203.3	23003.6	25619.2	24925.0	17314.3	6674.2	2532.9	1291.7	678.1
75°	9283.8	9865.0	12860.1	18046.9	20491.0	19881.5	11283.9	3170.6	1263.4	706.4	280.5
77.5°	4419.9	4306.9	6274.6	10732.9	13893.4	13861.1	5685.3	1408.7	736.6	478.3	141.3
80°	1263.4	1420.8	2401.7	5102.1	7713.6	7798.4	2183.7	680.1	510.6	373.4	72.7
82.5°	381.4	389.5	882.0	2256.4	3836.6	3616.6	819.4	347.1	367.3	296.7	42.4
85°	66.6	82.7	260.3	795.2	1463.2	1110.0	205.9	165.5	242.2	195.8	24.2
87.5°	4.0	6.1	86.8	90.8	129.2	74.7	36.3	24.2	52.5	52.5	14.1
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: P457117

CATALOG NUMBER: GALN-SA8B-830-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4228.2	4228.2	4228.2	4228.2	4228.2	4228.2	4228.2	4228.2	4228.2	4228.2	4228.2
2.5°	4242.3	4254.4	4246.3	4228.2	4197.9	4161.6	4113.1	4072.8	4038.5	4020.3	4042.5
5°	4268.5	4284.7	4244.3	4153.5	4016.3	3866.9	3697.4	3566.2	3463.3	3431.0	3418.9
7.5°	4308.9	4319.0	4210.0	4008.2	3717.6	3364.4	3055.6	2795.2	2593.4	2532.9	2444.1
10°	4361.4	4355.3	4149.5	3774.1	3263.5	2732.7	2254.3	1899.1	1630.7	1533.8	1525.8
12.5°	4442.1	4409.8	4072.8	3455.2	2722.6	2028.3	1437.0	1124.1	954.6	898.1	886.0
15°	4543.0	4466.3	3951.7	3081.8	2084.8	1309.8	886.0	791.1	768.9	764.9	760.9
17.5°	4662.1	4541.0	3792.2	2623.7	1465.2	849.7	740.7	738.7	740.7	736.6	734.6
20°	4823.5	4619.7	3602.5	2080.8	968.7	716.5	706.4	706.4	708.4	706.4	706.4
22.5°	4995.1	4712.5	3368.4	1588.3	730.6	680.1	678.1	682.2	686.2	684.2	684.2
25°	5207.0	4833.6	3059.6	1087.8	653.9	649.9	651.9	660.0	668.0	670.0	668.0
27.5°	5513.8	4983.0	2728.6	748.8	599.4	603.4	623.6	643.8	655.9	657.9	657.9
30°	5858.9	5148.5	2296.7	607.5	555.0	555.0	579.2	617.6	643.8	647.8	649.9
32.5°	6302.9	5340.2	1818.4	546.9	512.6	508.6	530.8	577.2	625.6	639.8	639.8
35°	6851.8	5566.2	1352.2	508.6	482.4	472.3	484.4	522.7	585.3	625.6	629.7
37.5°	7495.7	5780.2	988.9	474.3	454.1	440.0	448.0	478.3	528.8	589.3	605.5
40°	8091.0	5969.9	738.7	446.0	425.8	415.8	421.8	435.9	478.3	534.8	544.9
42.5°	8740.9	6117.2	587.3	415.8	397.6	393.6	393.6	399.6	427.9	460.2	462.2
45°	9388.7	6169.7	492.4	379.4	367.3	371.4	369.3	365.3	377.4	373.4	373.4
47.5°	9850.9	6107.1	407.7	345.1	345.1	351.2	341.1	327.0	320.9	296.7	298.7
50°	10167.8	5879.1	335.0	304.8	320.9	329.0	308.8	286.6	264.4	238.1	232.1
52.5°	10299.0	5473.4	274.5	252.3	284.6	294.7	270.4	244.2	209.9	187.7	181.6
55°	10214.2	4972.9	228.1	205.9	240.2	252.3	228.1	197.8	159.4	135.2	131.2
57.5°	9840.8	4375.5	193.7	163.5	191.7	199.8	183.7	151.4	113.0	88.8	88.8
60°	9195.0	3757.9	157.4	129.2	143.3	155.4	139.3	109.0	76.7	54.5	50.5
62.5°	7885.2	3051.5	127.1	100.9	100.9	111.0	96.9	78.7	48.4	28.3	26.2
65°	5693.4	2092.9	100.9	74.7	72.7	72.7	60.5	52.5	28.3	12.1	8.1
67.5°	3093.9	1180.7	80.7	56.5	50.5	48.4	38.3	30.3	12.1	2.0	0.0
70°	1217.0	454.1	62.6	38.3	32.3	30.3	20.2	14.1	8.1	0.0	0.0
71°	825.5	312.8	54.5	32.3	26.2	22.2	16.1	12.1	6.1	0.0	0.0
72.5°	472.3	193.7	42.4	24.2	20.2	16.1	12.1	8.1	6.1	0.0	0.0
75°	205.9	98.9	26.2	18.2	14.1	10.1	8.1	6.1	2.0	0.0	0.0
77.5°	104.9	54.5	18.2	14.1	8.1	6.1	4.0	2.0	0.0	0.0	0.0
80°	58.5	28.3	12.1	8.1	6.1	4.0	2.0	2.0	0.0	0.0	0.0
82.5°	32.3	16.1	6.1	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.2	10.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.1	4.0	0.0	0.0	0.0	0.0	2.0	2.0	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)