

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: P454563

Luminaire Tested: **GALN-SA5C-830-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454563
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-SA5C-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA 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: 21905 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 269
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

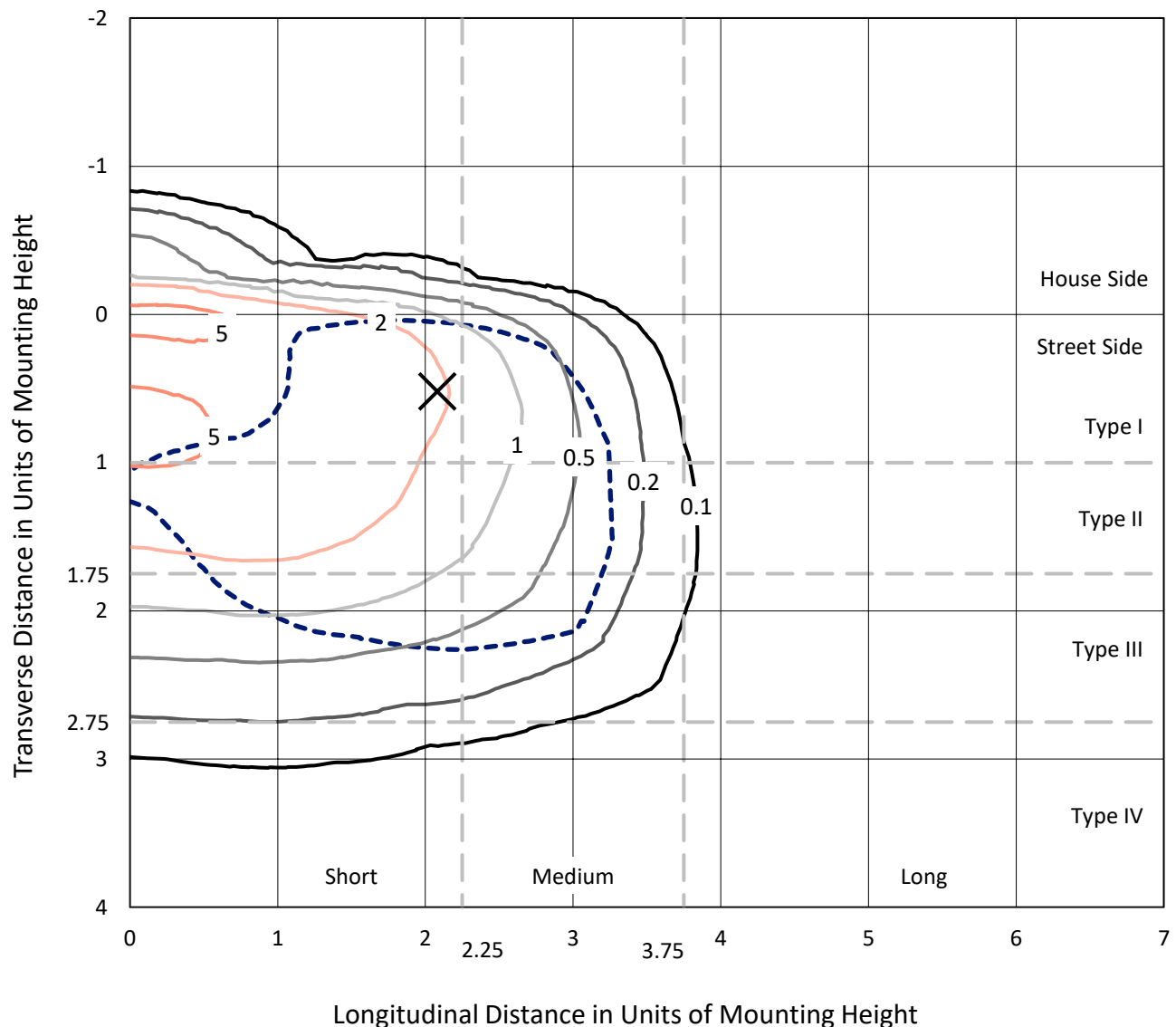


REPORT NUMBER: P454563

CATALOG NUMBER: GALN-SA5C-830-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

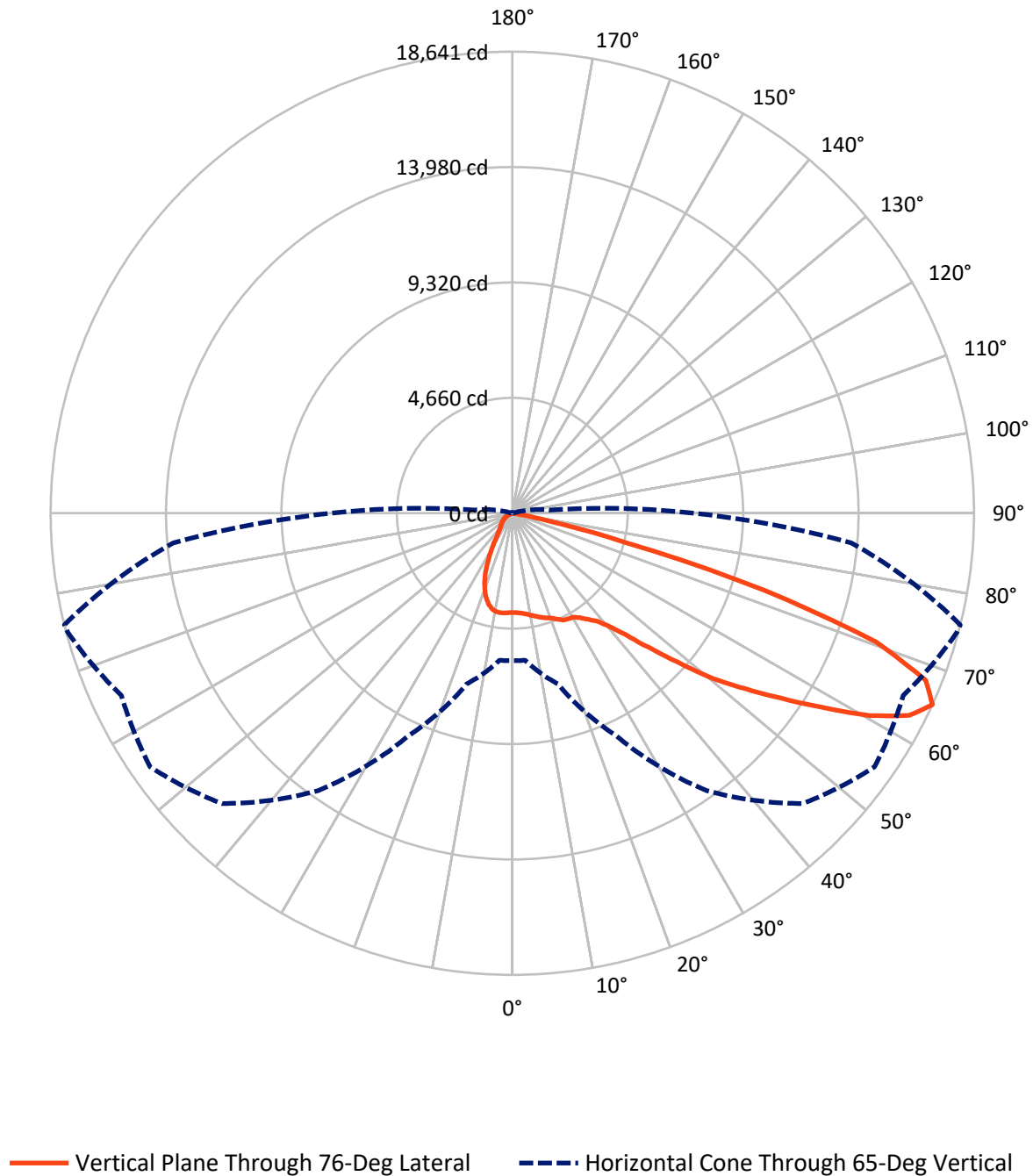


Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type III - Short - N/A

REPORT NUMBER: P454563

CATALOG NUMBER: GALN-SA5C-830-U-T3R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P454563

CATALOG NUMBER: GALN-SA5C-830-U-T3R-HSS

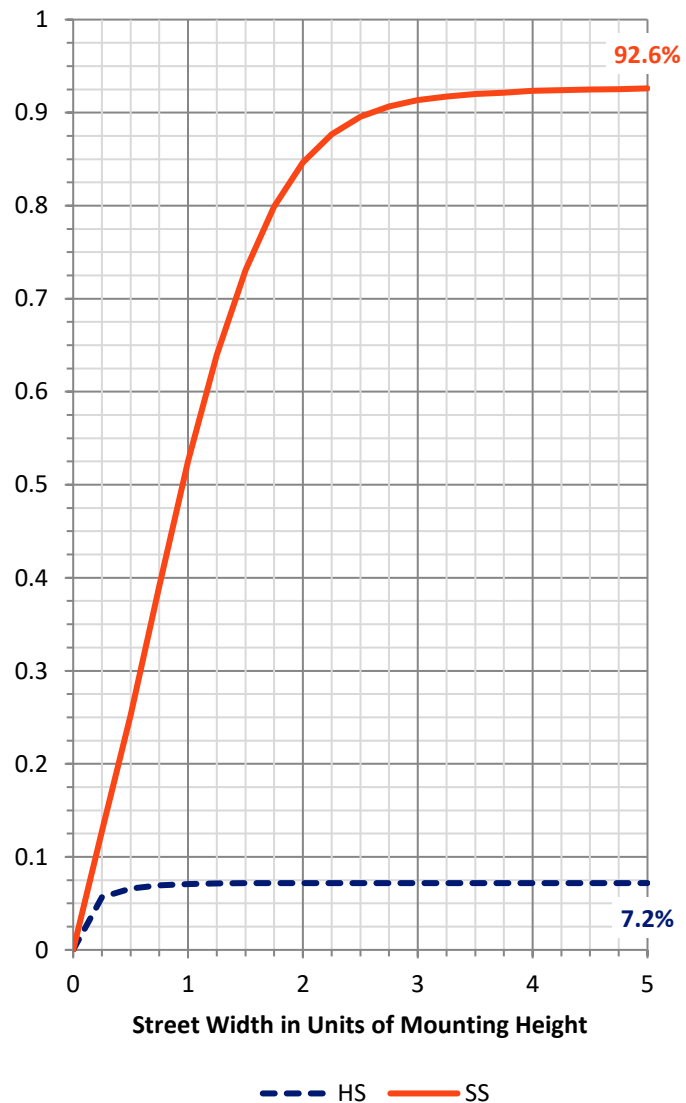
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1582.0	0.0	1582.0
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	20323.0	0.0	20323.0
	% Fixture	92.8	0.0	92.8
Total	Lumens	21905.0	0.0	21905.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.1	1.5
10°-20°	735.0	3.4
20°-30°	1184.4	5.4
30°-40°	2059.3	9.4
40°-50°	3402.9	15.5
50°-60°	5256.7	24.0
60°-70°	6419.2	29.3
70°-80°	2436.2	11.1
80°-90°	81.3	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°	21905.0	100.0
0°-180°	21905.0	100.0

Coefficient of Utilization



REPORT NUMBER: P454563

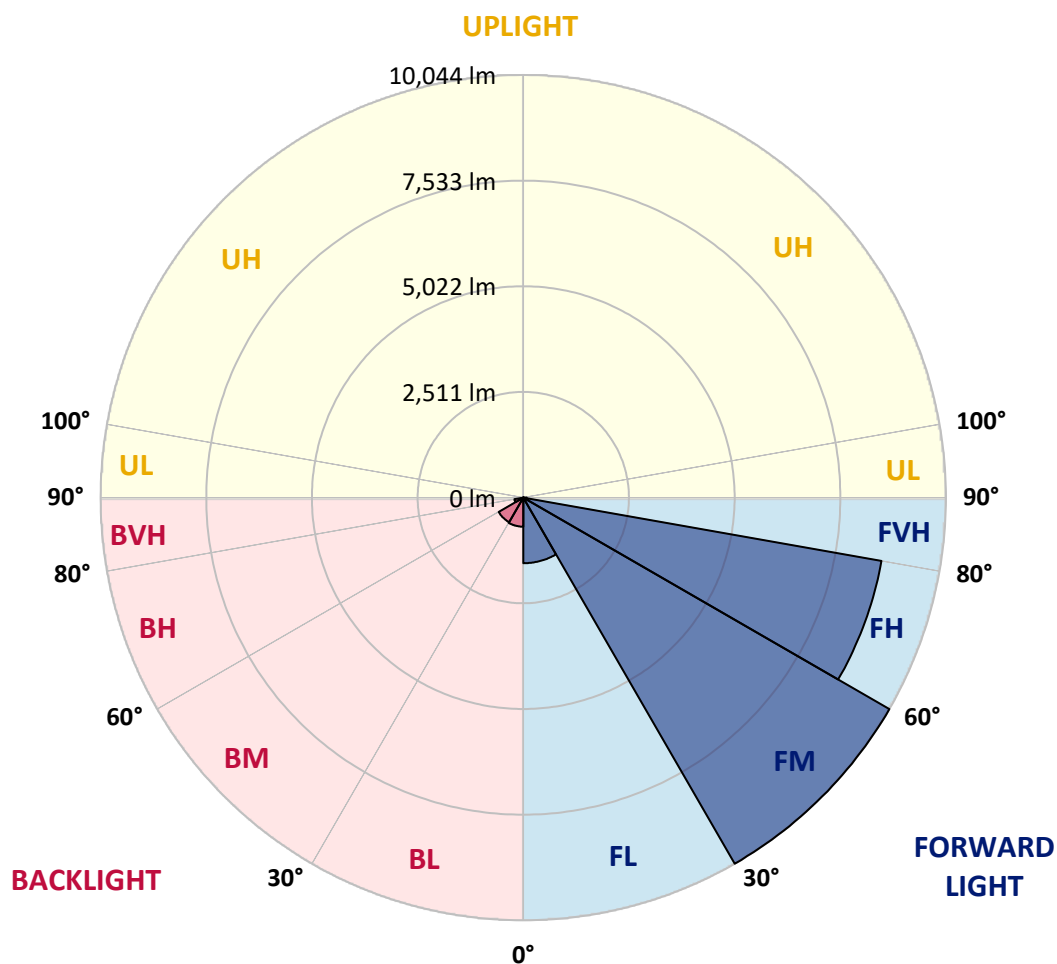
CATALOG NUMBER: GALN-SA5C-830-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1558.3	7.1			
FM	(30°-60°)	10043.8	45.9			
FH	(60°-80°)	8640.8	39.4			G4/12000
FVH	(80°-90°)	80.2	0.4			G1/100
BL	(0°-30°)	691.1	3.2	B2/1000		
BM	(30°-60°)	675.1	3.1	B1/1000		
BH	(60°-80°)	214.7	1.0	B1/500		G1/500
BVH	(80°-90°)	1.1	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-G4

Type III Short



REPORT NUMBER: P454563

CATALOG NUMBER: GALN-SA5C-830-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4007.1	4007.1	4007.1	4007.1	4007.1	4007.1	4007.1	4007.1	4007.1	4007.1	4007.1
2.5°	3829.3	3830.8	3840.1	3863.3	3898.9	3928.2	3953.0	3993.2	4021.0	4024.1	4033.4
5°	3564.8	3546.3	3564.8	3625.1	3679.3	3761.2	3861.7	3962.3	4052.0	4058.2	4101.5
7.5°	3267.9	3283.3	3312.7	3374.6	3476.7	3601.9	3747.3	3926.7	4096.8	4112.3	4197.3
10°	2966.3	3000.3	3048.3	3142.6	3284.9	3447.3	3645.2	3902.0	4168.0	4189.6	4336.5
12.5°	2687.9	2703.4	2762.1	2889.0	3065.3	3294.2	3567.9	3888.0	4246.8	4273.1	4485.0
15°	2474.5	2494.6	2545.6	2660.1	2856.5	3150.3	3504.5	3883.4	4324.2	4361.3	4633.5
17.5°	2434.3	2446.6	2468.3	2545.6	2717.3	3035.9	3447.3	3881.9	4398.4	4443.3	4771.1
20°	2599.8	2588.9	2567.3	2559.5	2653.9	2947.7	3405.5	3894.2	4469.5	4520.6	4916.5
22.5°	3014.2	3028.2	2901.3	2751.3	2720.4	2933.8	3399.3	3953.0	4582.4	4642.8	5078.9
25°	3894.2	3787.5	3589.6	3230.8	2960.1	3018.9	3468.9	4092.2	4713.9	4780.4	5225.8
27.5°	4867.0	4834.5	4526.8	3936.0	3431.8	3198.3	3592.6	4198.9	4757.2	4825.3	5309.3
30°	5822.8	5861.4	5508.8	4856.2	4116.9	3530.8	3708.6	4239.1	4795.9	4867.0	5416.0
32.5°	6709.0	6755.4	6446.0	5799.6	4924.2	4106.1	3908.1	4395.3	4958.3	5030.9	5593.9
35°	7406.5	7412.6	7179.1	6664.1	5805.8	4805.1	4339.6	4669.0	5177.9	5262.9	5782.6
37.5°	8046.7	8037.4	7763.7	7319.8	6540.4	5499.5	4882.5	4984.5	5428.4	5516.6	6054.8
40°	8521.5	8527.7	8439.5	8022.0	7225.5	6141.4	5312.4	5279.9	5849.1	5986.7	6450.7
42.5°	8838.6	8895.8	8939.1	8727.2	8086.9	6931.7	5972.8	5912.5	6579.0	6693.5	7010.5
45°	9095.3	9197.4	9413.9	9403.1	8914.3	7901.3	6879.1	6755.4	7613.7	7735.9	7723.5
47.5°	9282.4	9386.0	9744.8	9961.4	9692.3	8841.7	8018.9	7912.2	8849.4	8982.4	8510.7
50°	9378.3	9502.0	9959.8	10378.9	10300.1	9747.9	9318.0	9324.2	10341.8	10470.2	9423.2
52.5°	9154.1	9314.9	10074.3	10829.0	10982.1	10615.6	10535.1	10739.3	11670.3	11780.1	10247.5
55°	8438.0	8640.6	9918.1	11212.5	11772.4	11639.4	11917.8	12228.6	13122.5	13193.7	11093.4
57.5°	7984.9	8199.8	9457.2	11538.8	12722.0	12926.1	13366.9	13594.2	14621.1	14802.1	12064.7
60°	7602.9	7771.4	9078.3	11608.4	13687.0	14500.5	14928.9	15164.0	16470.8	16588.3	13133.3
62.5°	6967.2	7160.5	8438.0	11122.8	14172.6	15760.9	16648.7	16543.5	17901.4	17983.3	13789.1
65°	5945.0	5962.0	7138.9	9902.6	13671.5	16579.1	17856.5	17415.8	18584.9	18640.6	13738.0
67.5°	4437.1	4601.0	5491.8	7783.8	11548.1	15880.0	18247.8	17439.0	18153.5	17998.8	12647.7
70°	2858.0	2983.3	3722.6	5397.5	8326.7	13252.4	16950.2	16243.5	15932.6	15589.3	10352.6
72.5°	1319.2	1480.1	2211.6	3083.8	4938.1	9440.2	13759.7	13196.8	11467.7	10620.2	6580.6
75°	575.3	615.5	1091.9	1627.0	2315.2	4992.3	9072.1	8192.1	5179.4	4730.9	2633.8
77.5°	351.1	377.4	572.2	872.3	909.4	1902.3	4887.1	3574.1	1600.7	1412.0	714.5
80°	238.2	267.6	416.0	456.2	310.9	530.5	1834.2	954.2	323.2	309.3	153.1
82.5°	116.0	146.9	307.8	255.2	134.6	170.1	533.6	204.1	94.3	88.2	54.1
85°	17.0	29.4	173.2	167.0	60.3	40.2	94.3	51.0	32.5	30.9	24.7
87.5°	0.0	0.0	58.8	26.3	6.2	6.2	10.8	10.8	12.4	10.8	12.4
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: P454563

CATALOG NUMBER: GALN-SA5C-830-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4007.1	4007.1	4007.1	4007.1	4007.1	4007.1	4007.1	4007.1	4007.1	4007.1	4007.1
2.5°	4038.1	4045.8	4016.4	3974.6	3929.8	3884.9	3821.5	3764.3	3730.3	3750.4	3700.9
5°	4110.7	4104.6	4027.2	3900.4	3731.8	3529.2	3328.2	3156.5	3100.8	3017.3	3008.0
7.5°	4211.3	4194.3	4030.3	3739.6	3359.1	2978.7	2607.5	2361.6	2220.9	2101.8	2104.9
10°	4352.0	4302.5	3994.8	3456.6	2830.2	2256.4	1783.2	1458.4	1317.7	1272.8	1237.2
12.5°	4497.4	4401.5	3895.8	3074.6	2203.8	1541.9	1084.1	886.2	799.6	771.7	768.6
15°	4627.3	4475.7	3722.6	2615.2	1602.2	985.2	739.3	674.3	663.5	665.0	663.5
17.5°	4755.7	4534.5	3482.8	2128.1	1088.8	706.8	635.6	620.2	624.8	631.0	629.4
20°	4862.4	4546.9	3176.6	1623.9	770.2	620.2	597.0	593.9	598.5	603.2	603.2
22.5°	4978.4	4556.2	2813.2	1124.3	629.4	576.9	564.5	564.5	570.7	576.9	578.4
25°	5065.0	4505.1	2378.6	807.3	555.2	535.1	528.9	530.5	536.7	539.7	538.2
27.5°	5078.9	4361.3	1917.7	618.6	504.2	484.1	477.9	484.1	476.3	481.0	477.9
30°	5091.3	4178.8	1450.7	521.2	457.8	426.8	417.6	408.3	402.1	394.4	392.8
32.5°	5129.9	3963.8	1059.4	468.6	414.5	380.5	358.8	332.5	312.4	306.2	304.7
35°	5146.9	3705.5	777.9	426.8	375.8	338.7	300.0	262.9	233.5	222.7	230.4
37.5°	5211.9	3455.0	603.2	395.9	341.8	295.4	245.9	199.5	171.7	165.5	168.6
40°	5344.9	3182.8	505.7	369.6	312.4	255.2	194.9	150.0	131.5	125.3	123.7
42.5°	5558.3	2912.2	450.0	344.9	283.0	215.0	153.1	117.5	102.1	97.4	97.4
45°	5818.1	2652.3	411.4	318.6	252.1	173.2	120.6	94.3	85.1	82.0	82.0
47.5°	6159.9	2425.0	378.9	292.3	218.1	137.6	97.4	82.0	75.8	77.3	78.9
50°	6506.4	2256.4	343.3	262.9	179.4	112.9	83.5	72.7	71.1	72.7	72.7
52.5°	6767.7	2157.4	295.4	222.7	140.7	94.3	74.2	68.0	66.5	63.4	63.4
55°	7120.3	2135.8	235.1	180.9	111.4	78.9	66.5	61.9	57.2	54.1	52.6
57.5°	7573.5	2160.5	180.9	140.7	86.6	65.0	58.8	51.0	44.9	38.7	38.7
60°	7855.0	2104.9	140.7	108.3	63.4	52.6	44.9	37.1	29.4	24.7	23.2
62.5°	7765.3	1869.8	111.4	80.4	44.9	38.7	29.4	24.7	17.0	12.4	10.8
65°	7302.8	1509.4	89.7	55.7	32.5	23.2	15.5	15.5	7.7	1.5	0.0
67.5°	6391.9	1118.2	71.1	37.1	18.6	10.8	7.7	4.6	0.0	0.0	0.0
70°	5202.6	807.3	55.7	23.2	10.8	7.7	3.1	1.5	0.0	0.0	0.0
72.5°	3303.4	462.4	43.3	13.9	7.7	3.1	0.0	0.0	0.0	0.0	0.0
75°	1277.5	180.9	29.4	9.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	361.9	85.1	17.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	94.3	37.1	9.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	44.9	15.5	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	26.3	6.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.4	1.5	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)