

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: P458041

Luminaire Tested: **GALN-SA9B-830-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458041
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30095 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 364
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

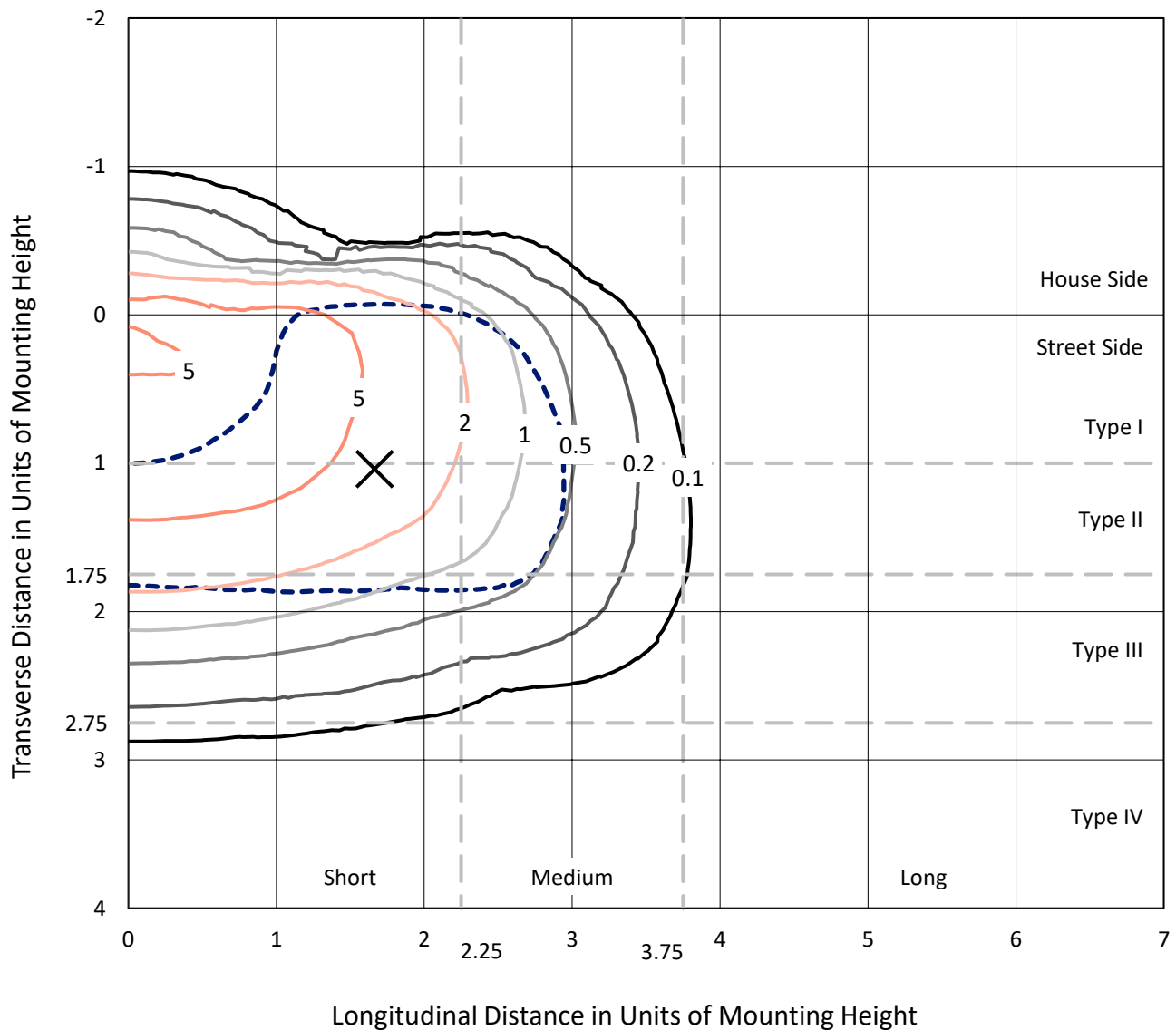


REPORT NUMBER: P458041

CATALOG NUMBER: GALN-SA9B-830-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

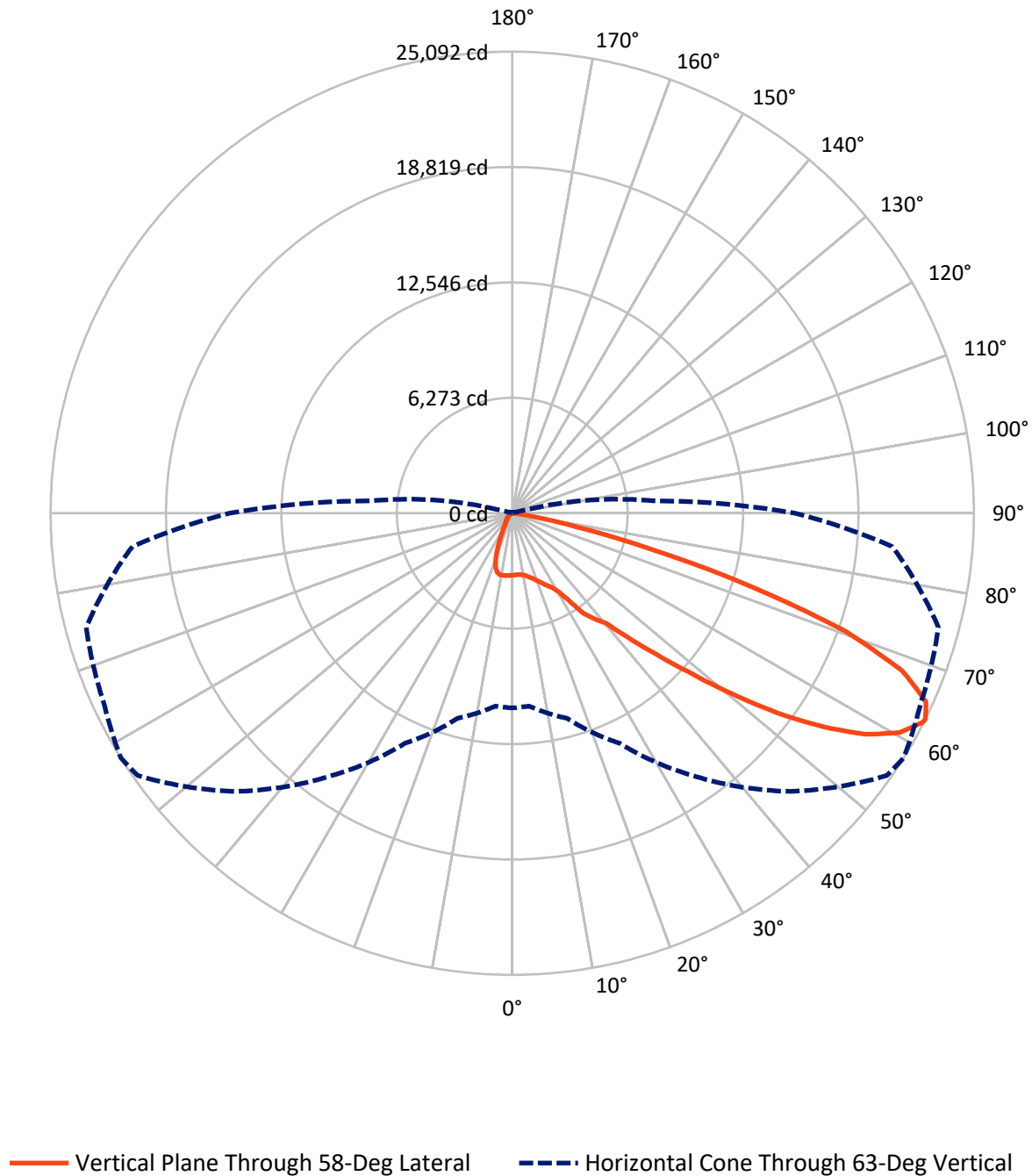
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type III - Short - N/A

REPORT NUMBER: P458041
CATALOG NUMBER: GALN-SA9B-830-U-T3-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P458041

CATALOG NUMBER: GALN-SA9B-830-U-T3-HSS

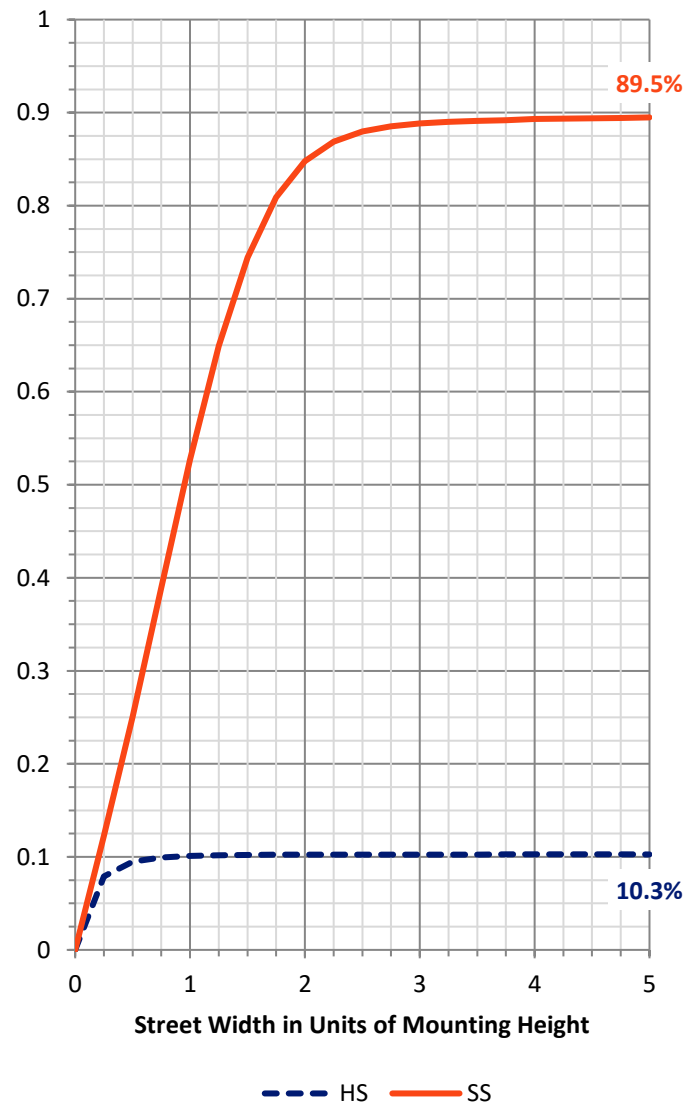
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3116.2	0.0	3116.2
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	26978.9	0.0	26978.9
	% Fixture	89.6	0.0	89.6
Total	Lumens	30095.0	0.0	30095.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.4	1.0
10°-20°	859.1	2.9
20°-30°	1490.9	5.0
30°-40°	2739.8	9.1
40°-50°	5157.5	17.1
50°-60°	8821.6	29.3
60°-70°	8446.7	28.1
70°-80°	2153.9	7.2
80°-90°	110.1	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°	30095.0	100.0
0°-180°	30095.0	100.0

Coefficient of Utilization



REPORT NUMBER: P458041

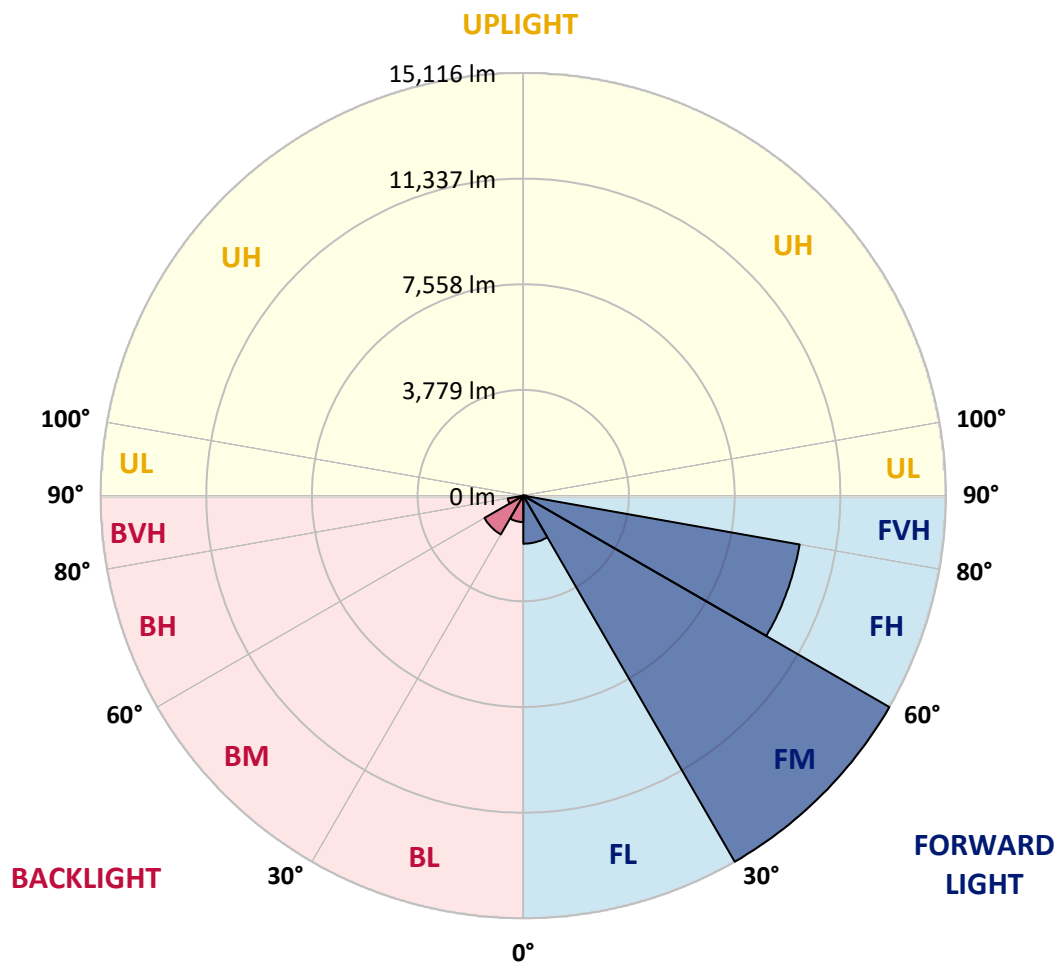
CATALOG NUMBER: GALN-SA9B-830-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1720.4	5.7			
FM	(30°-60°)	15116.1	50.2			
FH	(60°-80°)	10036.5	33.3			G4/12000
FVH	(80°-90°)	105.9	0.4			G2/225
BL	(0°-30°)	945.0	3.1	B2/1000		
BM	(30°-60°)	1602.8	5.3	B2/2500		
BH	(60°-80°)	564.1	1.9	B2/1000		G2/1000
BVH	(80°-90°)	4.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





REPORT NUMBER: P458041

CATALOG NUMBER: GALN-SA9B-830-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3369.3	3369.3	3369.3	3369.3	3369.3	3369.3	3369.3	3369.3	3369.3	3369.3	3369.3
2.5°	3285.4	3296.7	3308.1	3312.6	3328.5	3344.3	3355.7	3353.4	3371.5	3380.6	3380.6
5°	3154.0	3154.0	3183.5	3210.6	3256.0	3301.3	3344.3	3353.4	3387.4	3419.1	3430.4
7.5°	3043.0	3049.8	3072.4	3122.3	3183.5	3262.8	3348.9	3369.3	3428.2	3498.4	3527.9
10°	2990.9	2995.4	3024.8	3077.0	3154.0	3262.8	3382.8	3421.4	3512.0	3623.0	3663.8
12.5°	2979.5	2986.3	3015.8	3074.7	3163.1	3294.5	3457.6	3498.4	3629.8	3772.6	3833.7
15°	2999.9	3004.5	3033.9	3097.4	3194.8	3351.1	3557.3	3614.0	3770.3	3935.7	4015.0
17.5°	3072.4	3067.9	3088.3	3140.4	3249.2	3421.4	3677.4	3745.4	3928.9	4155.5	4207.6
20°	3380.6	3351.1	3333.0	3287.7	3330.7	3521.1	3822.4	3922.1	4148.7	4379.8	4416.1
22.5°	4044.5	3978.8	3849.6	3672.9	3536.9	3657.0	3996.9	4112.4	4404.7	4631.3	4631.3
25°	4889.6	4805.8	4676.6	4291.4	3958.4	3881.3	4194.0	4339.0	4683.4	4912.3	4837.5
27.5°	5947.7	5882.0	5630.5	5181.9	4672.1	4273.3	4422.9	4556.5	4930.4	5206.8	5050.5
30°	6808.7	6777.0	6570.8	6169.8	5607.9	5025.6	4848.8	4937.2	5258.9	5578.4	5417.5
32.5°	7536.1	7536.1	7325.3	6951.5	6425.8	5909.2	5571.6	5635.1	5943.2	6312.5	6013.4
35°	8335.9	8308.7	8138.8	7783.0	7193.9	6738.5	6600.3	6686.4	6965.1	7239.2	6502.9
37.5°	9176.5	9167.4	8990.7	8646.3	8166.0	7592.7	7268.7	7291.4	7434.1	7601.8	7076.1
40°	10089.6	10103.2	9872.1	9659.1	9206.0	8619.1	7998.3	7855.5	7989.2	8462.8	8134.2
42.5°	11168.2	11136.4	11036.7	10746.7	10381.9	10030.7	9285.3	9233.2	9351.0	9858.5	9502.8
45°	12421.1	12466.5	12294.3	12133.4	11888.7	11596.4	10973.3	10882.7	11011.8	11800.3	11295.0
47.5°	13676.4	13633.3	13744.4	13714.9	13846.3	13628.8	13078.2	12892.4	13202.8	13950.6	13207.4
50°	14632.6	14680.1	14911.3	15248.9	15813.1	15935.4	15407.5	15344.0	15482.2	15962.6	14918.1
52.5°	15253.4	15412.0	15774.5	16642.3	17659.7	18450.4	18049.4	18015.4	17958.8	18087.9	16554.0
55°	15659.0	15819.8	16293.4	17571.3	19322.8	20607.5	20627.9	20482.9	20109.0	20016.1	18083.4
57.5°	15409.7	15441.5	16116.7	17825.1	20245.0	22146.0	22812.1	22667.1	21976.0	21624.8	19433.8
60°	13850.9	13916.6	14856.9	16864.4	19843.9	22649.0	24260.0	24194.3	23437.5	23041.0	20485.1
62.5°	11088.8	11279.2	12246.7	14485.3	17979.2	21801.6	24846.8	25032.6	24443.5	23897.4	20815.9
63°	10581.3	10520.1	11542.0	13792.0	17485.2	21382.4	24855.9	25091.5	24488.8	23979.0	20725.3
65°	7832.9	8016.4	8680.3	10875.9	14551.0	19431.5	24296.2	24713.1	24321.1	23618.7	19721.6
67.5°	4397.9	4388.9	5123.0	7116.9	10184.8	15242.1	21969.2	22850.6	22769.1	21194.3	16347.8
70°	2152.5	2186.5	2487.9	3688.7	5907.0	10515.6	18255.6	19207.2	19236.7	16646.9	11304.1
72.5°	974.3	990.2	1205.4	1796.8	3036.2	5598.8	12579.7	13488.3	13320.7	10608.5	6242.3
75°	514.3	548.3	663.9	904.1	1463.7	2308.9	6842.7	7721.9	7370.7	4846.6	2297.5
77.5°	380.7	392.0	450.9	575.5	784.0	899.5	2952.3	3512.0	3289.9	1753.7	761.3
80°	278.7	287.8	335.3	407.8	493.9	457.7	1112.5	1275.6	1144.2	595.9	233.4
82.5°	169.9	172.2	244.7	303.6	310.4	256.0	367.1	394.3	412.4	335.3	126.9
85°	61.2	77.0	165.4	219.8	183.5	129.2	154.1	169.9	185.8	213.0	74.8
87.5°	6.8	9.1	79.3	106.5	52.1	47.6	56.6	63.4	68.0	79.3	36.3
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: P458041

CATALOG NUMBER: GALN-SA9B-830-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3369.3	3369.3	3369.3	3369.3	3369.3	3369.3	3369.3	3369.3	3369.3	3369.3	3369.3
2.5°	3389.6	3398.7	3391.9	3380.6	3378.3	3371.5	3357.9	3357.9	3357.9	3362.5	3357.9
5°	3439.5	3446.3	3430.4	3407.8	3382.8	3351.1	3317.1	3296.7	3294.5	3289.9	3278.6
7.5°	3534.7	3543.7	3507.5	3453.1	3385.1	3308.1	3235.6	3167.6	3135.9	3110.9	3110.9
10°	3672.9	3681.9	3609.4	3512.0	3376.0	3219.7	3047.5	2891.2	2768.8	2712.2	2698.6
12.5°	3838.3	3842.8	3722.7	3552.8	3328.5	3027.1	2660.1	2317.9	2080.0	1971.3	1959.9
15°	4019.5	3987.8	3829.2	3568.6	3192.5	2630.6	1996.2	1577.0	1330.0	1257.5	1284.7
17.5°	4203.1	4144.2	3910.8	3543.7	2886.6	1996.2	1341.4	1076.3	999.2	978.8	978.8
20°	4375.3	4293.7	3969.7	3435.0	2356.4	1375.3	994.7	931.2	917.7	904.1	906.3
22.5°	4547.5	4422.9	4021.8	3192.5	1756.0	983.4	890.5	870.1	851.9	833.8	831.6
25°	4715.1	4542.9	4042.2	2743.9	1196.3	845.1	813.4	786.2	750.0	729.6	725.1
27.5°	4889.6	4688.0	4028.6	2177.4	872.3	756.8	725.1	686.5	643.5	607.2	607.2
30°	5224.9	4964.4	3981.0	1565.7	734.1	666.1	625.4	564.2	516.6	480.4	478.1
32.5°	5682.6	5324.6	3817.9	1101.2	652.6	586.8	525.7	457.7	407.8	380.7	380.7
35°	6090.5	5687.2	3512.0	811.2	586.8	509.8	435.0	369.3	330.8	312.7	305.9
37.5°	6711.3	6217.4	3090.6	659.3	523.4	441.8	364.8	303.6	271.9	258.3	258.3
40°	7642.6	6865.4	2574.0	577.8	462.2	376.1	303.6	256.0	231.1	215.3	215.3
42.5°	8798.1	7658.4	2050.6	518.9	405.6	324.0	253.8	217.5	194.9	183.5	181.3
45°	10252.8	8494.5	1579.3	464.5	360.3	276.4	215.3	183.5	160.9	154.1	156.3
47.5°	11770.9	9230.9	1223.5	416.9	312.7	233.4	183.5	158.6	142.7	133.7	133.7
50°	13066.9	9738.4	929.0	362.5	276.4	197.1	160.9	142.7	129.2	124.6	122.4
52.5°	14150.0	9885.7	711.5	314.9	242.4	169.9	142.7	129.2	117.8	111.0	111.0
55°	15072.1	9756.6	557.4	265.1	203.9	147.3	126.9	115.6	102.0	95.2	92.9
57.5°	15611.4	9341.9	426.0	219.8	165.4	122.4	111.0	97.4	81.6	70.2	70.2
60°	15883.3	8739.2	326.3	181.3	126.9	97.4	90.6	72.5	56.6	47.6	45.3
62.5°	15557.0	7939.4	247.0	142.7	95.2	72.5	61.2	52.1	36.3	27.2	27.2
63°	15355.4	7708.3	237.9	135.9	88.4	68.0	56.6	47.6	31.7	24.9	22.7
65°	13998.1	6700.0	194.9	108.8	70.2	47.6	38.5	34.0	22.7	11.3	9.1
67.5°	11116.0	5125.3	154.1	81.6	49.8	34.0	22.7	20.4	6.8	0.0	0.0
70°	7515.7	3310.3	120.1	58.9	34.0	20.4	11.3	9.1	2.3	0.0	0.0
72.5°	3919.8	1697.1	92.9	43.1	20.4	13.6	6.8	2.3	0.0	0.0	0.0
75°	1386.7	577.8	68.0	27.2	13.6	6.8	2.3	0.0	0.0	0.0	0.0
77.5°	419.2	215.3	43.1	20.4	9.1	4.5	0.0	0.0	0.0	0.0	0.0
80°	147.3	79.3	24.9	13.6	6.8	2.3	0.0	0.0	0.0	0.0	0.0
82.5°	72.5	38.5	15.9	11.3	6.8	2.3	0.0	0.0	0.0	0.0	0.0
85°	40.8	24.9	13.6	11.3	6.8	4.5	0.0	0.0	0.0	0.0	0.0
87.5°	29.5	18.1	13.6	11.3	9.1	4.5	2.3	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)