

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: P457098

Luminaire Tested: **GALN-SA8B-830-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457098
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
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-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29883 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

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

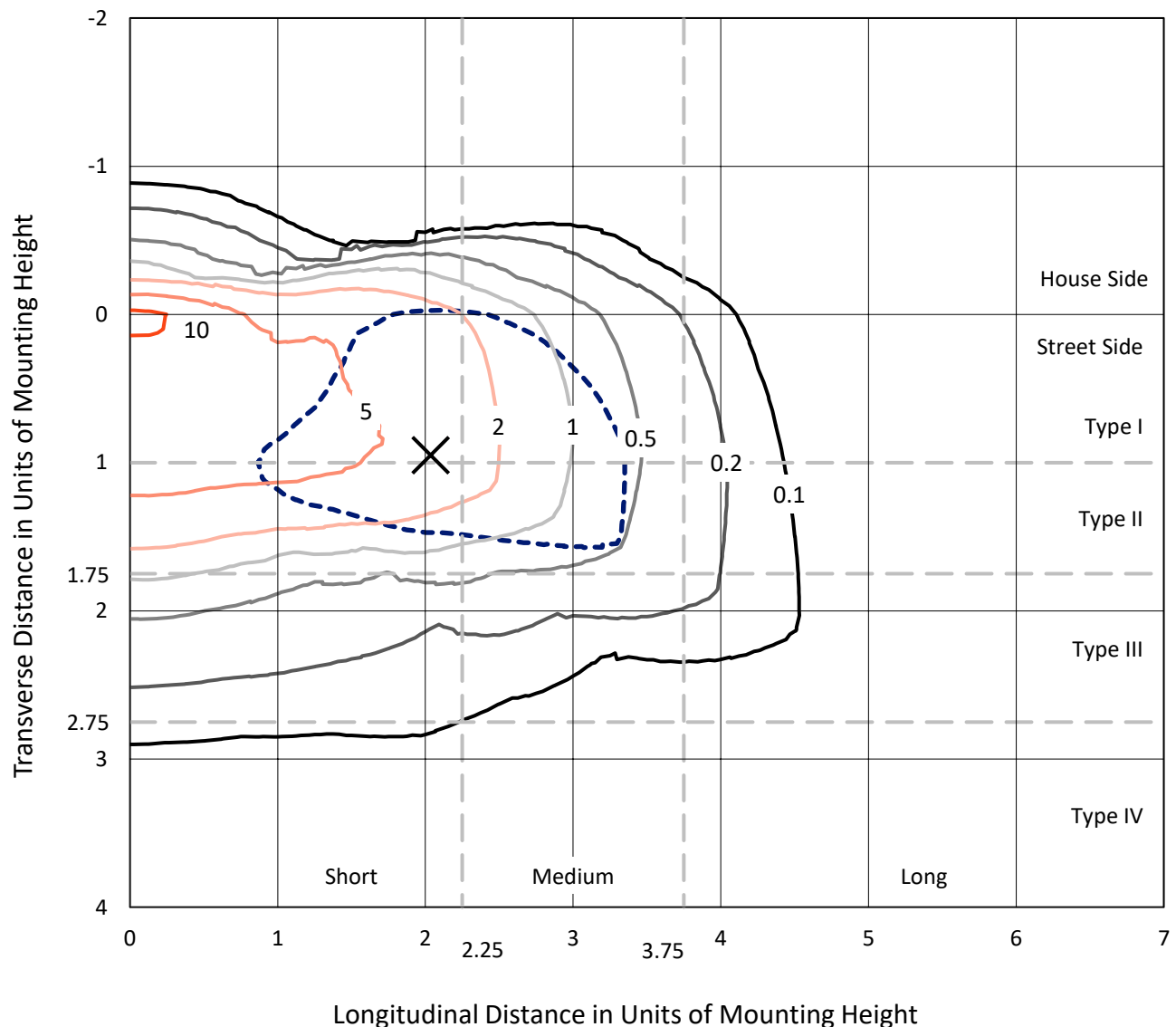


REPORT NUMBER: P457098

CATALOG NUMBER: GALN-SA8B-830-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

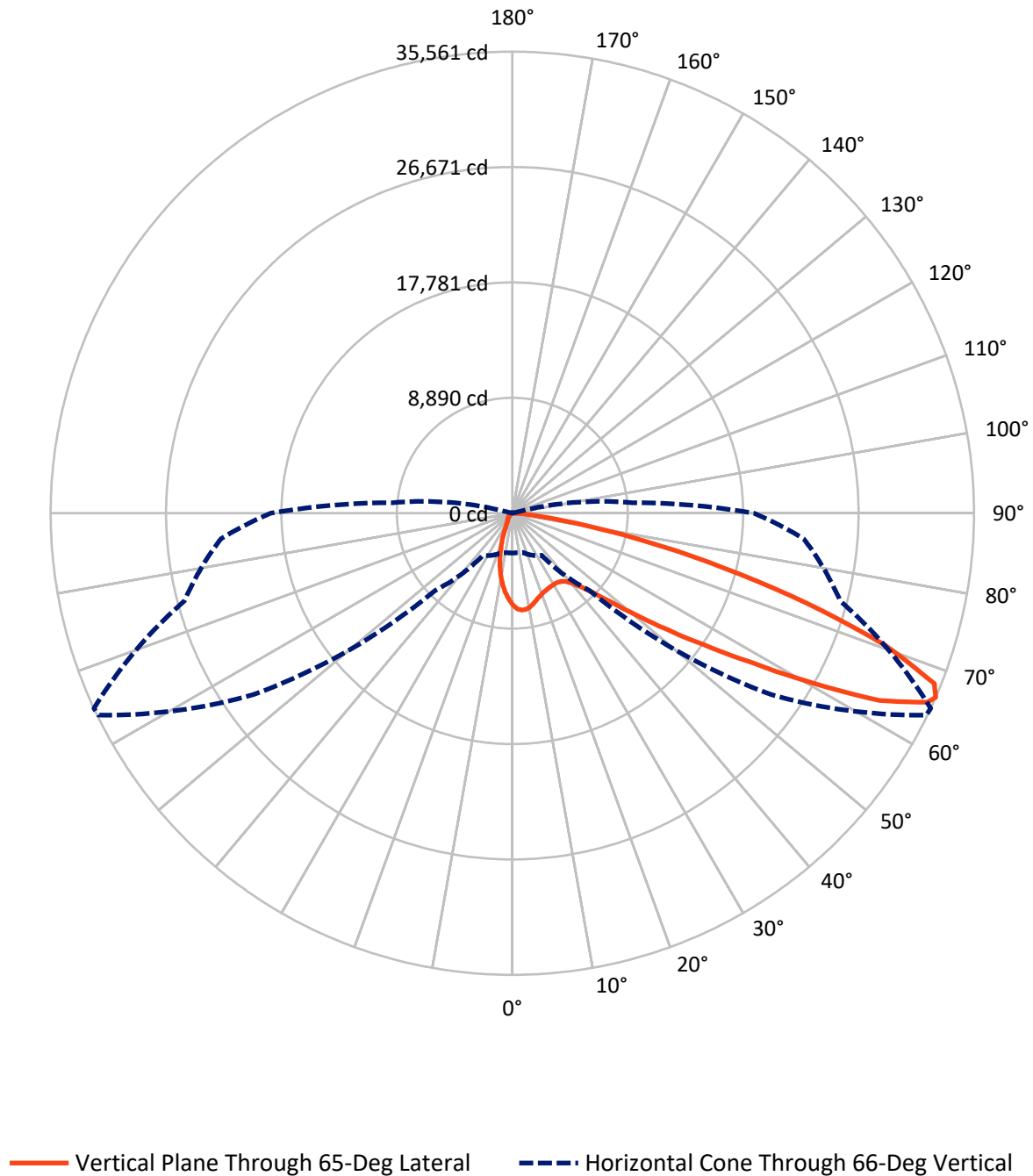
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type II - Short - N/A

REPORT NUMBER: P457098
CATALOG NUMBER: GALN-SA8B-830-U-SL2-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P457098

CATALOG NUMBER: GALN-SA8B-830-U-SL2-HSS

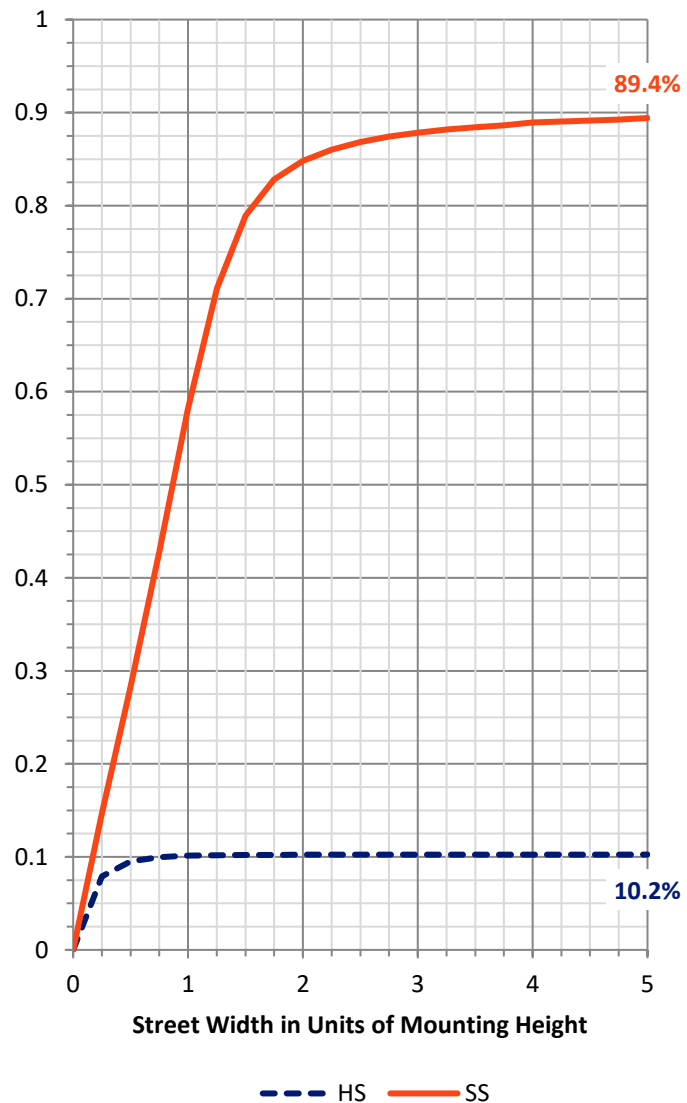
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3090.3	0.0	3090.3
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	26792.7	0.0	26792.7
	% Fixture	89.7	0.0	89.7
Total	Lumens	29883.0	0.0	29883.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	579.6	1.9
10°-20°	1262.8	4.2
20°-30°	1808.9	6.1
30°-40°	2642.1	8.8
40°-50°	4430.3	14.8
50°-60°	7393.5	24.7
60°-70°	7847.9	26.3
70°-80°	3554.3	11.9
80°-90°	363.7	1.2
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°	29883.0	100.0
0°-180°	29883.0	100.0

Coefficient of Utilization



REPORT NUMBER: P457098

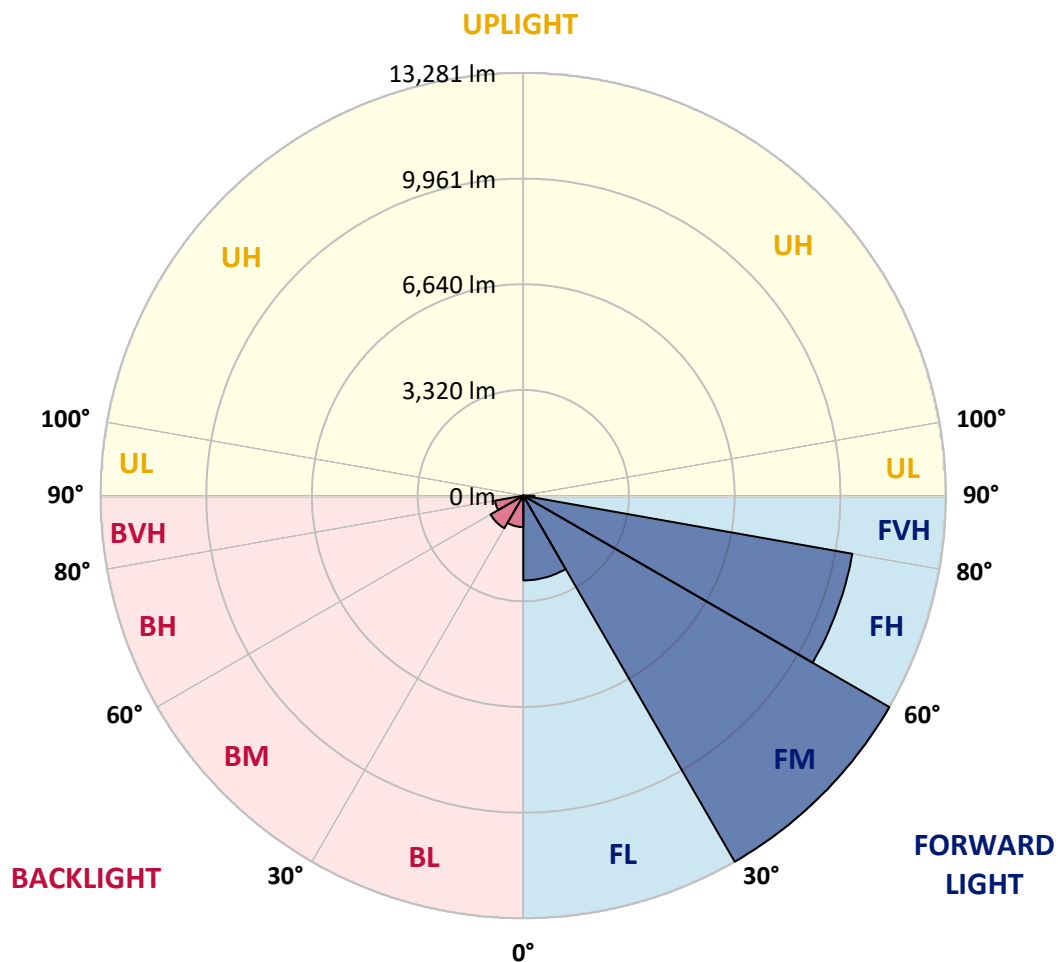
CATALOG NUMBER: GALN-SA8B-830-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2662.7	8.9			
FM	(30°-60°)	13280.7	44.4			
FH	(60°-80°)	10497.2	35.1			G4/12000
FVH	(80°-90°)	352.1	1.2			G3/500
BL	(0°-30°)	988.6	3.3	B2/1000		
BM	(30°-60°)	1185.2	4.0	B2/2500		
BH	(60°-80°)	905.0	3.0	B2/1000		G2/1000
BVH	(80°-90°)	11.6	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Short





REPORT NUMBER: P457098

CATALOG NUMBER: GALN-SA8B-830-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	7086.4	7086.4	7086.4	7086.4	7086.4	7086.4	7086.4	7086.4	7086.4	7086.4	7086.4
2.5°	7467.8	7475.9	7486.0	7500.1	7510.2	7479.9	7437.6	7389.1	7379.0	7276.1	7150.9
5°	7068.2	7080.3	7169.1	7217.6	7326.5	7425.4	7488.0	7496.1	7492.0	7395.2	7195.4
7.5°	6499.0	6533.3	6620.1	6704.9	6908.7	7096.5	7318.5	7473.9	7484.0	7457.7	7209.5
10°	6036.8	6059.0	6103.4	6271.0	6440.5	6727.1	7037.9	7330.6	7354.8	7459.8	7197.4
12.5°	5675.5	5707.8	5762.3	5891.5	6095.4	6365.8	6719.0	7112.6	7163.1	7421.4	7163.1
15°	5423.3	5439.4	5493.9	5621.1	5818.8	6069.1	6426.4	6884.5	6928.9	7370.9	7157.0
17.5°	5304.2	5322.3	5360.7	5461.6	5625.1	5857.2	6206.4	6700.9	6757.4	7338.7	7179.2
20°	5336.5	5352.6	5354.6	5407.1	5518.1	5713.9	6044.9	6529.3	6602.0	7318.5	7215.5
22.5°	5520.1	5522.2	5497.9	5473.7	5512.1	5653.3	5946.0	6420.3	6495.0	7314.4	7257.9
25°	5794.6	5800.7	5760.3	5675.5	5598.9	5671.5	5923.8	6349.7	6416.3	7304.3	7284.2
27.5°	6174.1	6172.1	6159.9	6018.7	5800.7	5752.2	5942.0	6311.3	6367.8	7276.1	7294.2
30°	6704.9	6688.8	6662.5	6503.1	6170.0	5948.0	6018.7	6287.1	6339.6	7235.7	7268.0
32.5°	7227.6	7288.2	7284.2	7132.8	6717.0	6297.2	6178.1	6319.4	6357.7	7209.5	7229.7
35°	7837.2	7835.2	7990.6	7934.1	7447.6	6743.2	6450.6	6426.4	6456.6	7227.6	7211.5
37.5°	8402.3	8454.8	8697.0	8755.5	8311.5	7373.0	6836.1	6656.5	6666.5	7350.8	7255.9
40°	9106.7	9207.6	9568.9	9764.7	9373.1	8307.5	7405.3	7078.3	7080.3	7653.5	7423.4
42.5°	10015.0	10174.4	10511.5	10838.4	10628.5	9413.5	8259.0	7746.4	7742.3	8186.4	7806.9
45°	11119.0	11230.0	11613.5	12132.2	11999.0	10957.5	9502.3	8781.8	8729.3	9060.3	8487.1
47.5°	12071.6	12223.0	12612.6	13203.9	13809.4	12842.6	10987.8	10204.7	10170.4	10450.9	9653.7
50°	12487.4	12620.6	13030.3	13859.9	15327.2	15317.1	13199.9	12281.5	12223.0	12374.4	11458.1
52.5°	12031.3	12156.4	12570.2	13603.6	16041.7	18332.5	16405.0	14887.2	14816.6	14622.8	13613.6
55°	10469.1	10572.0	11183.6	12370.4	15767.2	20342.8	20821.1	18106.5	17832.0	17079.1	16053.8
57.5°	8335.7	8283.2	8662.7	10041.2	14156.6	21016.9	25354.3	22116.9	21626.4	19202.4	18118.6
60°	5776.5	5937.9	6091.3	6999.6	10644.7	19848.3	28173.9	27158.7	26512.8	21291.4	20096.5
62.5°	4246.6	4353.5	4454.5	4874.3	6692.8	15847.9	28672.4	32337.7	31764.5	23509.5	21983.7
65°	3358.5	3366.6	3406.9	3820.7	4410.1	10305.6	26276.7	35258.2	35110.9	25644.9	22748.6
66°	3059.8	3061.8	3124.4	3568.4	3957.9	8392.2	24357.2	35480.2	35561.0	26157.6	22524.6
67.5°	2674.3	2666.2	2757.0	3207.1	3604.7	6051.0	20922.0	34580.1	35058.4	26551.1	21719.3
70°	2072.8	2062.7	2173.7	2690.4	3320.2	4036.7	13906.3	29691.7	30462.7	25745.8	19216.5
72.5°	1380.5	1388.6	1578.3	2123.3	3168.8	3554.3	8366.0	22587.1	23677.0	21261.1	15117.3
75°	805.3	819.4	1035.4	1578.3	2751.0	3388.8	4735.0	16106.3	16802.6	14681.3	9417.5
77.5°	421.8	427.9	579.3	1041.5	2109.2	3146.6	3154.7	10289.5	10616.4	7134.8	3727.9
80°	224.0	218.0	310.8	627.7	1451.2	2763.1	2559.2	5447.5	5663.4	2119.2	942.6
82.5°	84.8	92.8	165.5	411.7	857.8	1984.0	2204.0	2407.9	2333.2	466.2	395.6
85°	16.1	20.2	70.6	244.2	431.9	829.5	1624.8	1180.7	1093.9	175.6	228.1
87.5°	2.0	4.0	20.2	58.5	62.6	280.5	480.4	327.0	282.6	64.6	94.9
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: P457098

CATALOG NUMBER: GALN-SA8B-830-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7086.4	7086.4	7086.4	7086.4	7086.4	7086.4	7086.4	7086.4	7086.4	7086.4	7086.4
2.5°	7090.4	7035.9	6854.3	6674.6	6491.0	6325.5	6212.4	6028.8	5982.3	5915.7	5877.4
5°	7076.3	6949.1	6599.9	6218.5	5863.3	5479.8	5187.1	4904.5	4753.2	4676.5	4648.2
7.5°	7035.9	6834.1	6289.1	5691.7	5122.5	4549.3	4050.8	3671.3	3427.1	3259.6	3146.6
10°	6955.2	6676.6	5927.8	5106.4	4246.6	3489.7	2858.0	2377.6	2006.2	1889.2	1893.2
12.5°	6872.4	6501.0	5524.2	4456.5	3390.8	2436.1	1766.0	1386.6	1209.0	1150.4	1138.3
15°	6795.7	6333.5	5128.6	3826.8	2524.9	1578.3	1138.3	1005.1	956.7	946.6	944.6
17.5°	6755.4	6178.1	4706.7	3106.2	1762.0	1071.7	912.3	876.0	861.8	851.7	847.7
20°	6721.0	6042.9	4303.1	2432.1	1204.9	878.0	817.4	783.1	758.9	748.8	742.7
22.5°	6696.8	5903.6	3885.3	1883.1	922.4	779.1	724.6	680.2	645.9	633.8	625.7
25°	6660.5	5750.2	3463.5	1376.5	777.1	692.3	629.7	577.2	532.8	510.6	506.6
27.5°	6608.0	5576.6	3001.3	1019.3	694.3	615.6	538.9	474.3	429.9	405.7	407.7
30°	6523.2	5395.0	2539.1	809.4	627.7	536.9	454.1	391.6	349.2	331.0	329.0
32.5°	6422.3	5175.0	2115.2	694.3	567.2	466.2	379.4	325.0	292.7	278.5	276.5
35°	6327.5	4953.0	1683.3	623.7	504.6	401.6	318.9	272.5	248.3	236.1	238.2
37.5°	6275.0	4755.2	1311.9	567.2	454.1	345.1	274.5	234.1	211.9	201.8	199.8
40°	6309.3	4593.7	1043.5	516.7	397.6	296.7	236.1	201.8	179.6	165.5	165.5
42.5°	6470.8	4523.1	841.6	468.3	345.1	256.3	205.9	173.6	149.4	135.2	137.2
45°	6963.2	4597.8	704.4	423.8	296.7	222.0	177.6	143.3	121.1	111.0	109.0
47.5°	7780.7	4878.3	609.5	377.4	254.3	189.7	149.4	119.1	96.9	88.8	86.8
50°	9209.6	5457.6	538.9	331.0	216.0	161.5	123.1	94.9	76.7	68.6	68.6
52.5°	11175.5	6721.0	488.4	278.5	181.6	137.2	100.9	76.7	60.5	54.5	52.5
55°	13230.2	8053.1	462.2	234.1	151.4	113.0	80.7	60.5	46.4	40.4	38.3
57.5°	15206.1	9098.6	431.9	189.7	121.1	86.8	62.6	46.4	32.3	28.3	26.2
60°	17101.3	9944.3	367.3	151.4	94.9	62.6	46.4	32.3	22.2	18.2	18.2
62.5°	18796.7	10436.8	288.6	121.1	72.7	44.4	30.3	24.2	16.1	12.1	12.1
65°	18994.5	9797.0	218.0	92.8	52.5	28.3	18.2	18.2	12.1	8.1	8.1
66°	18596.9	9254.0	191.7	84.8	46.4	24.2	16.1	14.1	10.1	6.1	6.1
67.5°	17708.8	8327.6	165.5	72.7	38.3	18.2	12.1	12.1	8.1	4.0	4.0
70°	15301.0	6801.8	131.2	54.5	28.3	14.1	8.1	8.1	6.1	4.0	4.0
72.5°	11661.9	5078.1	107.0	40.4	20.2	10.1	6.1	6.1	6.1	4.0	4.0
75°	7033.9	2734.8	82.8	30.3	18.2	8.1	4.0	6.1	8.1	6.1	4.0
77.5°	2591.5	930.5	64.6	24.2	14.1	8.1	4.0	4.0	8.1	6.1	6.1
80°	635.8	242.2	46.4	20.2	14.1	8.1	4.0	4.0	8.1	8.1	8.1
82.5°	294.7	102.9	32.3	18.2	14.1	8.1	4.0	4.0	6.1	8.1	8.1
85°	169.5	48.4	26.2	20.2	14.1	8.1	4.0	4.0	6.1	8.1	8.1
87.5°	68.6	24.2	24.2	20.2	16.1	10.1	4.0	4.0	4.0	6.1	6.1
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)