

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: P452223

Luminaire Tested: **GALN-SA3A-830-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452223
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8888 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 93
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

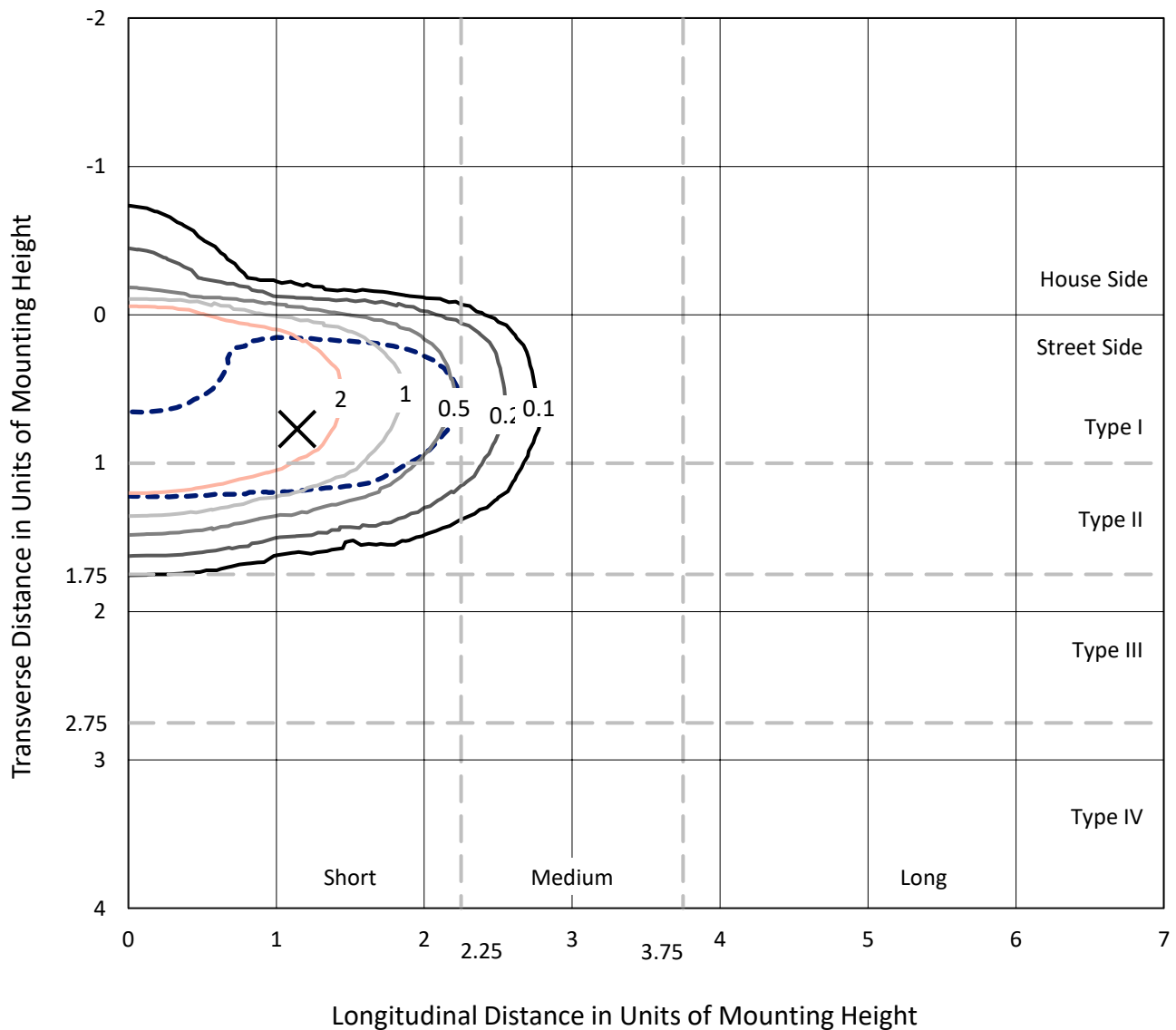


REPORT NUMBER: P452223

CATALOG NUMBER: GALN-SA3A-830-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

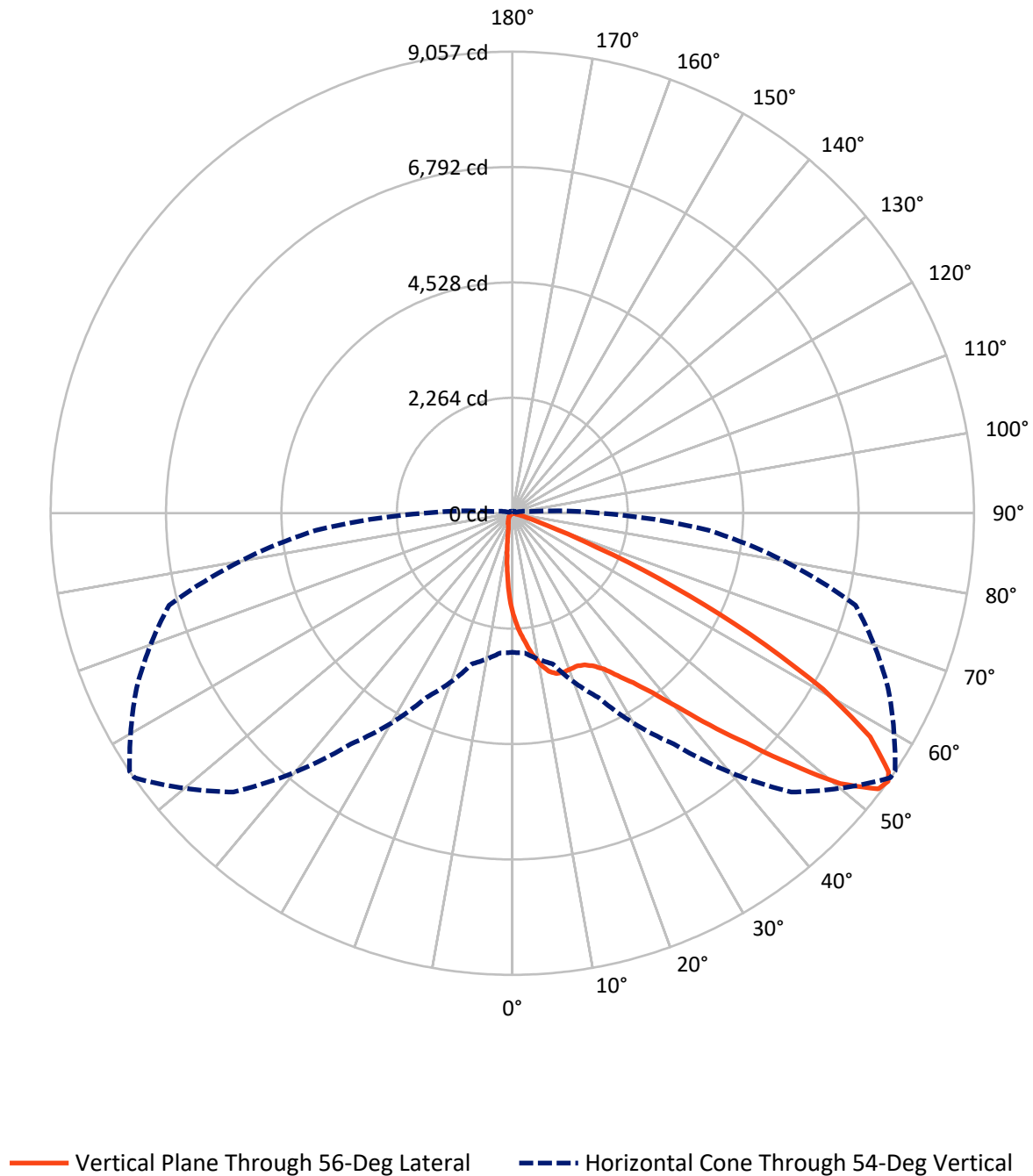


Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Short - N/A

REPORT NUMBER: P452223

CATALOG NUMBER: GALN-SA3A-830-U-AFL-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P452223

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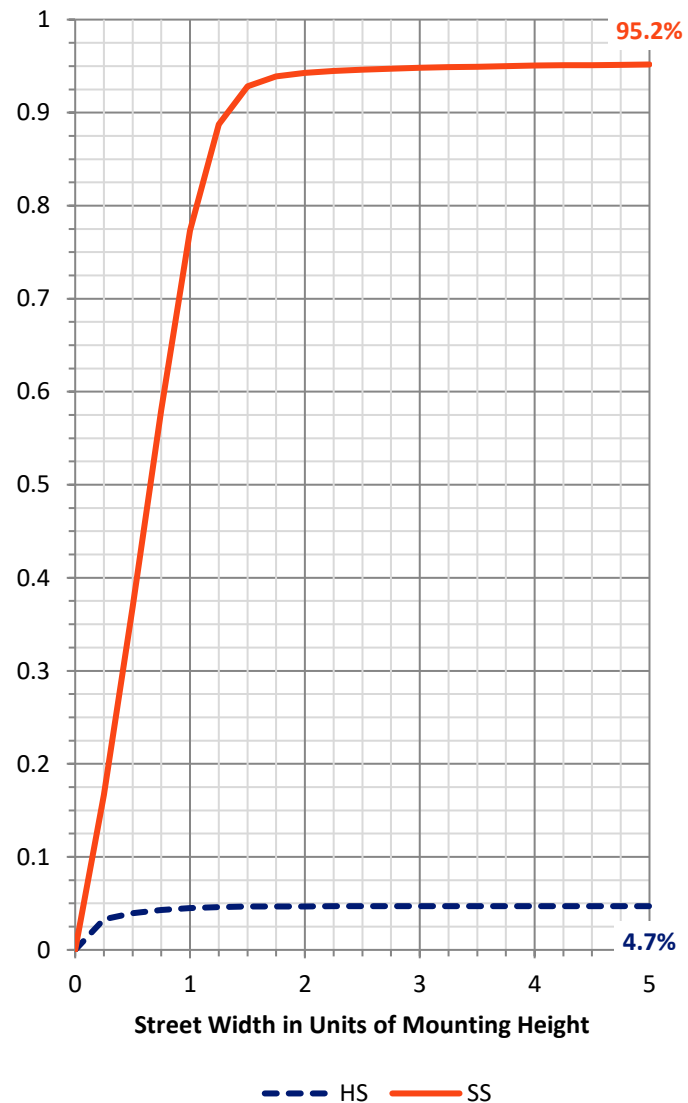
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	420.3	0.0	420.3
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	8467.7	0.0	8467.7
	% Fixture	95.3	0.0	95.3
Total	Lumens	8888.0	0.0	8888.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.5	2.0
10°-20°	471.7	5.3
20°-30°	817.0	9.2
30°-40°	1410.2	15.9
40°-50°	2400.2	27.0
50°-60°	2375.3	26.7
60°-70°	1084.2	12.2
70°-80°	139.2	1.6
80°-90°	15.7	0.2
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°	8888.0	100.0
0°-180°	8888.0	100.0

Coefficient of Utilization



REPORT NUMBER: P452223

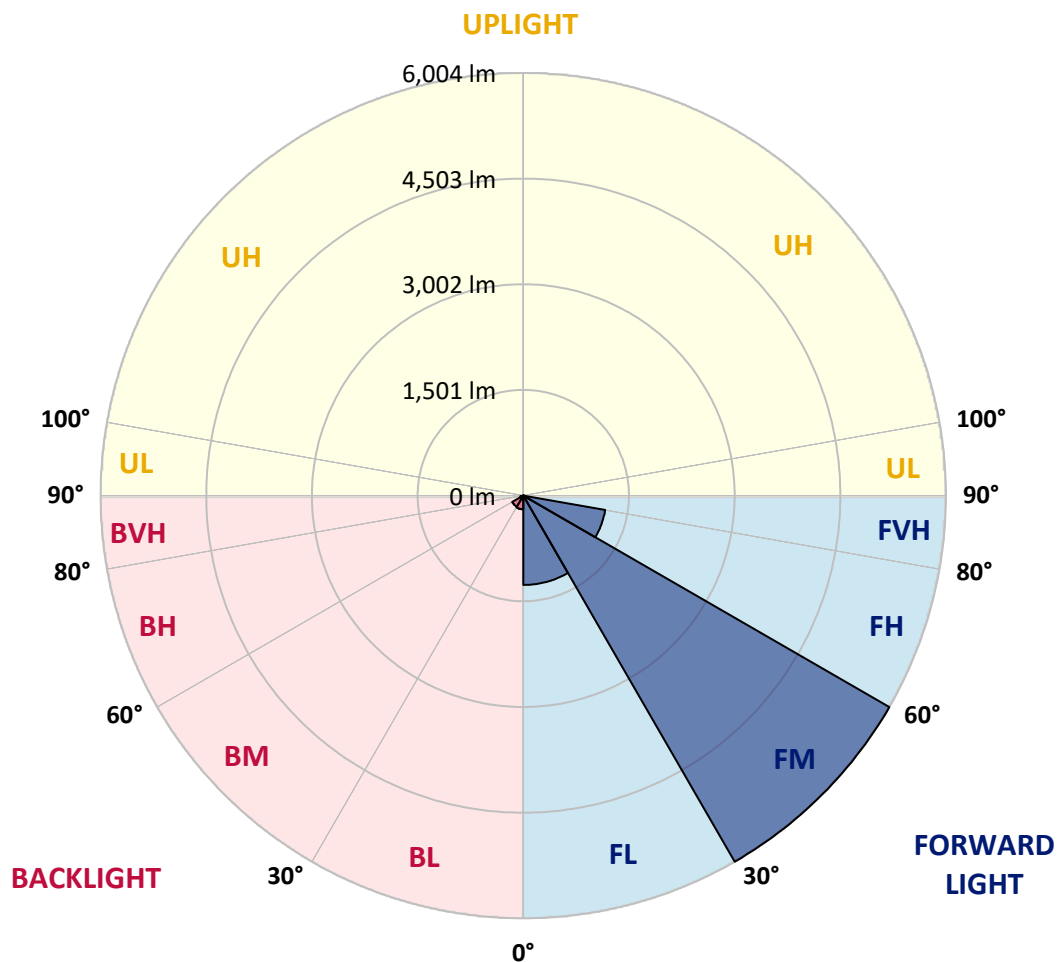
CATALOG NUMBER: GALN-SA3A-830-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1268.8	14.3			
FM	(30°-60°)	6003.6	67.5			
FH	(60°-80°)	1181.3	13.3			G1/1800
FVH	(80°-90°)	14.0	0.2			G1/100
BL	(0°-30°)	194.4	2.2	B1/500		
BM	(30°-60°)	182.2	2.0	B0/220		
BH	(60°-80°)	42.1	0.5	B0/110		G0/110
BVH	(80°-90°)	1.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





REPORT NUMBER: P452223

CATALOG NUMBER: GALN-SA3A-830-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1974.7	1974.7	1974.7	1974.7	1974.7	1974.7	1974.7	1974.7	1974.7	1974.7	1974.7
2.5°	2509.5	2492.2	2468.2	2449.6	2405.8	2342.8	2276.3	2276.3	2212.1	2122.8	2031.6
5°	2894.5	2883.1	2859.7	2811.8	2762.6	2674.5	2540.7	2517.3	2402.8	2240.9	2070.6
7.5°	3051.0	3056.4	3057.6	3045.0	3021.7	2934.7	2802.2	2786.0	2603.1	2386.0	2121.6
10°	2901.1	2927.5	2953.3	3005.5	3079.2	3100.2	3025.3	3008.5	2828.6	2532.9	2176.7
12.5°	2678.1	2692.4	2706.8	2789.0	2937.1	3106.8	3185.4	3184.8	3032.4	2679.3	2246.9
15°	2574.3	2586.9	2588.1	2624.7	2753.0	3000.1	3253.7	3262.7	3231.5	2859.7	2322.5
17.5°	2595.9	2606.1	2597.7	2606.7	2673.9	2882.5	3245.9	3275.9	3392.8	3033.0	2390.8
20°	2736.8	2756.6	2724.2	2699.0	2719.4	2851.4	3219.5	3261.5	3506.8	3202.1	2453.2
22.5°	2989.9	3000.7	2959.9	2890.9	2854.9	2916.7	3212.3	3253.7	3603.9	3340.7	2489.2
25°	3271.1	3267.5	3222.5	3145.2	3069.6	3048.6	3259.7	3296.9	3684.3	3465.4	2500.0
27.5°	3552.3	3563.1	3487.6	3391.6	3301.1	3246.5	3365.9	3393.4	3774.8	3607.5	2513.1
30°	3879.2	3861.8	3787.4	3677.7	3573.9	3497.8	3536.8	3544.6	3899.5	3795.8	2547.9
32.5°	4304.3	4256.3	4173.0	3981.1	3906.7	3777.8	3787.4	3797.0	4051.3	3982.3	2589.9
35°	4881.2	4878.8	4715.7	4457.2	4276.1	4116.0	4074.0	4081.8	4280.9	4259.3	2682.8
37.5°	5575.6	5585.2	5399.3	5139.0	4805.6	4551.4	4465.0	4466.2	4629.9	4641.9	2824.4
40°	6141.0	6166.2	6055.3	5879.6	5550.4	5152.8	5007.7	4994.5	5120.4	5105.4	3026.4
42.5°	6384.5	6407.9	6449.3	6510.4	6329.3	6001.3	5658.9	5676.9	5715.3	5610.4	3253.1
45°	6265.2	6302.4	6464.9	6842.6	7012.9	6902.6	6494.2	6431.3	6268.8	6159.0	3481.0
47.5°	5768.1	5858.6	6130.3	6759.3	7355.3	7728.3	7436.9	7353.5	6822.9	6559.6	3626.1
50°	4950.7	4956.1	5334.5	6138.7	7177.8	8249.4	8399.3	8337.0	7339.2	6784.5	3699.3
52.5°	3588.9	3707.1	4053.7	4984.9	6409.1	8170.3	9012.8	8987.0	7871.6	6899.6	3804.8
54°	2728.4	2751.2	3059.4	3983.5	5525.8	7735.5	9050.6	9056.6	8136.1	6969.2	3867.2
55°	2236.7	2182.1	2506.0	3393.4	4923.2	7351.1	8927.0	8955.8	8254.8	7005.1	3913.3
57.5°	1060.2	1060.8	1308.4	1790.0	3083.4	5708.1	8172.1	8274.0	8268.0	7066.9	4055.5
60°	536.7	540.3	594.9	826.3	1523.1	3794.6	6756.9	6999.8	7631.8	7075.9	4102.2
62.5°	375.4	371.2	362.2	397.6	641.0	1928.5	5030.5	5241.6	6484.1	6733.5	3953.5
65°	321.4	312.4	287.2	281.8	323.8	768.2	3133.2	3477.4	4950.7	5830.4	3530.2
67.5°	274.6	271.0	248.3	234.5	229.1	334.6	1616.7	1797.8	3383.8	4191.0	2673.9
70°	233.3	231.5	217.7	200.3	185.3	200.3	599.7	743.0	1885.9	2256.5	1261.7
72.5°	189.5	191.3	193.7	171.5	155.9	142.1	256.1	298.0	789.1	806.5	441.3
75°	166.1	164.3	164.3	149.3	130.1	105.5	140.9	151.7	241.7	224.3	102.5
77.5°	116.9	112.7	131.9	122.9	108.5	75.0	80.4	85.2	100.1	85.8	48.0
80°	81.0	81.0	84.6	110.3	97.7	54.6	49.2	52.8	59.4	51.0	27.6
82.5°	45.6	46.8	55.2	58.8	57.0	36.6	32.4	33.0	39.6	34.8	17.4
85°	5.4	9.0	31.8	31.2	23.4	16.2	18.0	18.6	24.6	21.6	10.2
87.5°	0.6	1.2	6.6	8.4	6.0	6.6	6.6	6.6	8.4	9.6	7.2
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: P452223

CATALOG NUMBER: GALN-SA3A-830-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1974.7	1974.7	1974.7	1974.7	1974.7	1974.7	1974.7	1974.7	1974.7	1974.7	1974.7
2.5°	1982.5	1936.9	1828.3	1702.4	1622.1	1491.3	1381.0	1301.2	1281.5	1243.1	1254.5
5°	1980.1	1885.3	1664.0	1430.2	1180.7	994.8	856.3	747.2	699.2	667.4	645.2
7.5°	1981.3	1833.1	1478.1	1105.8	807.7	625.4	497.1	430.6	386.2	367.6	370.0
10°	1984.9	1774.4	1262.3	819.1	545.1	404.2	325.6	293.8	278.8	276.4	275.8
12.5°	1993.2	1710.2	1056.0	608.0	381.4	293.8	263.8	253.1	248.3	248.3	246.5
15°	2002.2	1639.5	884.5	452.1	293.8	252.5	238.7	233.3	230.3	230.3	229.7
17.5°	2002.2	1557.9	724.4	350.8	253.1	232.1	221.3	214.1	211.7	211.7	211.1
20°	1989.6	1463.2	582.3	282.4	229.7	212.9	202.1	194.3	191.3	190.1	189.5
22.5°	1945.9	1336.6	463.5	242.9	210.5	196.1	182.3	173.3	170.9	169.7	170.3
25°	1867.9	1193.9	367.0	213.5	193.1	175.7	163.7	157.1	154.7	154.7	155.3
27.5°	1787.6	1044.6	290.8	191.3	172.1	156.5	146.9	142.7	142.1	143.9	144.5
30°	1713.2	894.7	235.7	173.3	153.5	140.3	133.7	132.5	132.5	133.1	133.7
32.5°	1630.5	763.4	197.3	157.7	138.5	127.1	123.5	123.5	124.7	124.7	125.9
35°	1578.3	650.6	173.3	142.7	127.1	117.5	115.1	115.7	117.5	119.9	121.1
37.5°	1550.1	560.7	157.7	130.7	116.3	109.7	107.3	108.5	112.7	116.9	117.5
40°	1552.5	492.9	145.1	120.5	107.9	100.7	98.9	102.5	106.7	110.9	111.5
42.5°	1578.9	442.5	133.1	108.5	100.7	90.5	89.9	93.5	95.3	99.5	100.1
45°	1610.1	406.0	120.5	95.9	87.5	78.6	79.2	82.2	84.6	91.1	92.3
47.5°	1619.7	380.8	106.1	81.6	72.0	69.0	69.6	71.4	76.2	82.2	82.8
50°	1630.5	365.2	92.3	69.0	61.2	60.6	61.2	62.4	65.4	67.8	67.2
52.5°	1676.6	364.6	81.0	60.0	52.2	53.4	54.0	53.4	51.0	47.4	46.2
54°	1719.8	366.4	75.6	55.8	48.0	49.8	49.2	46.2	40.2	36.6	34.8
55°	1754.6	368.2	72.6	52.8	45.6	46.2	46.8	40.8	33.0	29.4	28.2
57.5°	1822.9	364.0	65.4	46.2	40.2	37.8	37.2	27.0	18.0	15.6	14.4
60°	1788.8	328.6	59.4	39.6	34.2	30.6	25.2	15.0	9.0	6.6	6.6
62.5°	1654.4	278.8	52.8	32.4	28.2	23.4	13.2	8.4	4.2	2.4	1.8
65°	1479.9	234.5	47.4	25.8	22.2	15.0	7.2	5.4	1.8	0.0	0.0
67.5°	1100.4	173.9	40.2	20.4	16.8	9.6	4.8	3.0	0.6	0.0	0.0
70°	509.7	106.1	34.2	15.6	12.0	7.2	3.6	1.8	0.0	0.0	0.0
72.5°	146.3	66.6	28.2	11.4	8.4	6.0	3.0	1.2	0.6	0.0	0.0
75°	51.0	53.4	21.0	8.4	6.6	4.2	2.4	1.2	0.6	0.0	0.0
77.5°	30.6	43.2	13.2	7.2	5.4	3.6	2.4	1.2	0.6	0.6	0.0
80°	17.4	28.8	8.4	6.0	4.8	3.0	1.8	1.2	0.6	0.6	0.0
82.5°	9.6	13.8	6.6	5.4	4.2	3.0	1.8	1.2	0.6	0.6	0.6
85°	7.8	7.2	5.4	4.8	3.6	2.4	1.8	0.6	0.0	0.0	0.0
87.5°	6.0	4.8	4.8	4.8	3.6	2.4	1.8	0.6	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)