

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: P457343

Luminaire Tested: **GALN-SA8C-830-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457343
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8C-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36118 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 429
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

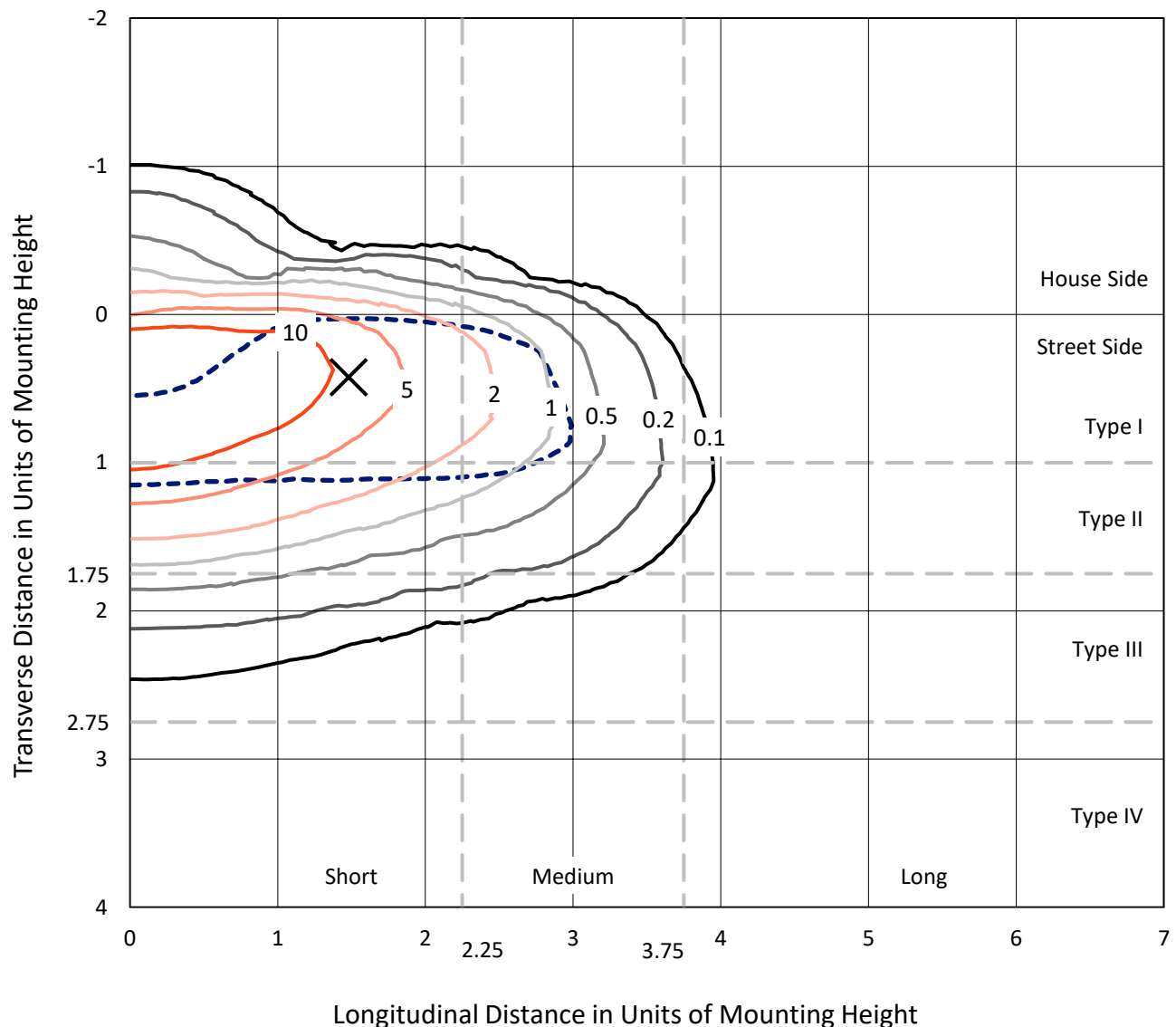


REPORT NUMBER: P457343

CATALOG NUMBER: GALN-SA8C-830-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

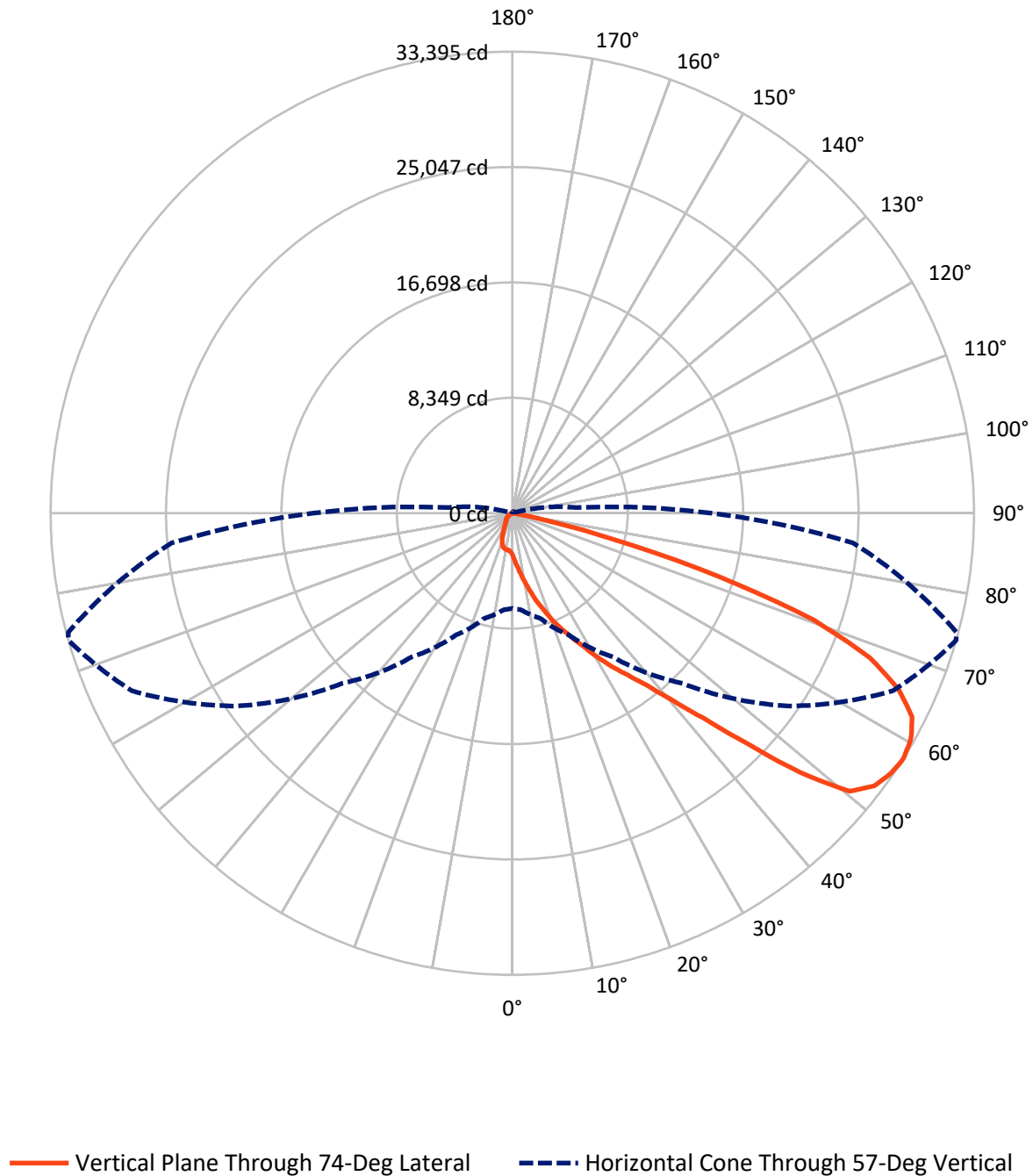


Based on 25 foot mounting height. Maximum calculated value = 18.3 fc
 Type II - Short - N/A

REPORT NUMBER: P457343

CATALOG NUMBER: GALN-SA8C-830-U-T2R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P457343

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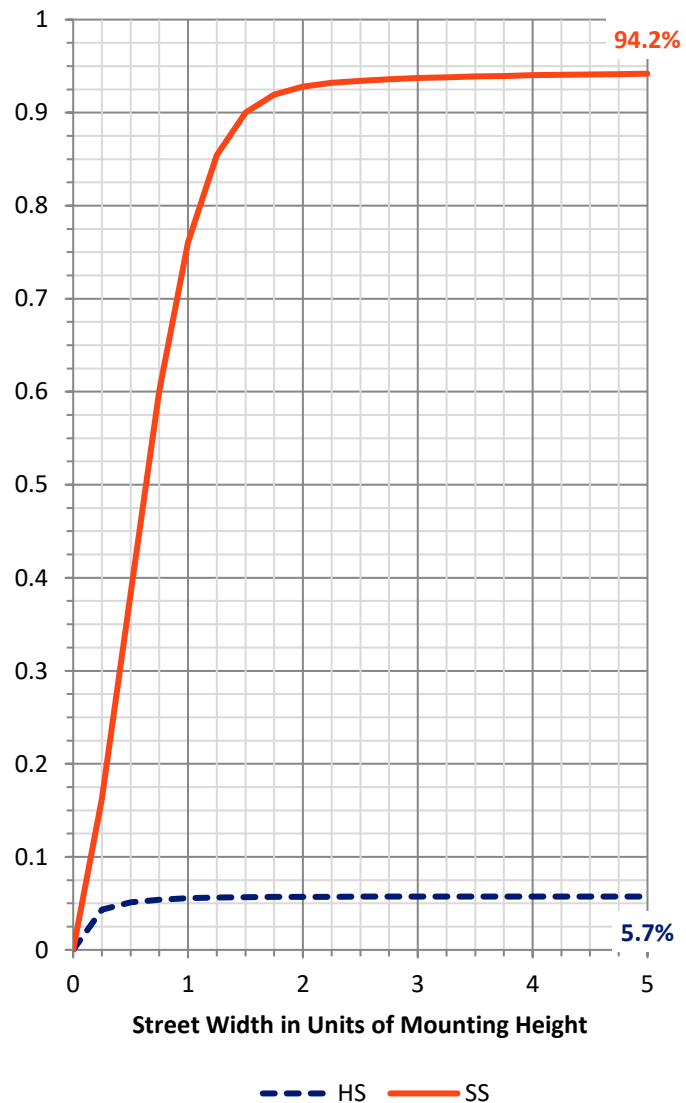
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2083.2	0.0	2083.2
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	34034.8	0.0	34034.8
	% Fixture	94.2	0.0	94.2
Total	Lumens	36118.0	0.0	36118.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.1	1.0
10°-20°	1439.1	4.0
20°-30°	3079.3	8.5
30°-40°	5659.7	15.7
40°-50°	8676.5	24.0
50°-60°	9178.5	25.4
60°-70°	5993.8	16.6
70°-80°	1637.7	4.5
80°-90°	88.2	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°	36118.0	100.0
0°-180°	36118.0	100.0

Coefficient of Utilization



REPORT NUMBER: P457343

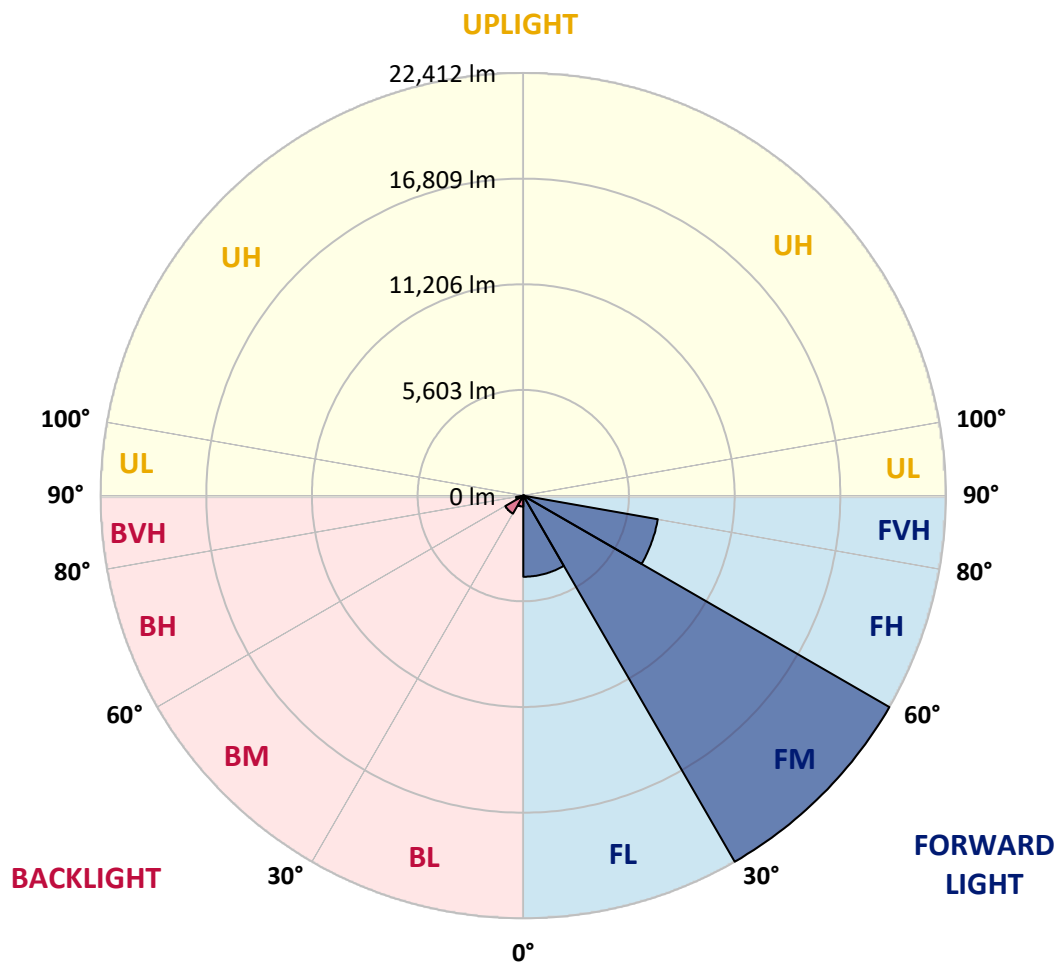
CATALOG NUMBER: GALN-SA8C-830-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4301.6	11.9			
FM	(30°-60°)	22411.9	62.1			
FH	(60°-80°)	7240.5	20.0			G3/7500
FVH	(80°-90°)	80.9	0.2			G1/100
BL	(0°-30°)	581.9	1.6	B2/1000		
BM	(30°-60°)	1102.9	3.1	B2/2500		
BH	(60°-80°)	391.1	1.1	B1/500		G1/500
BVH	(80°-90°)	7.3	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-G3

Type II Short





REPORT NUMBER: P457343

CATALOG NUMBER: GALN-SA8C-830-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3024.8	3024.8	3024.8	3024.8	3024.8	3024.8	3024.8	3024.8	3024.8	3024.8	3024.8
2.5°	4426.3	4386.4	4306.6	4279.2	4162.0	3979.9	3820.3	3605.9	3436.3	3418.8	3214.4
5°	5927.5	5837.7	5800.3	5620.8	5339.0	5074.6	4620.8	4276.7	3880.2	3850.2	3438.8
7.5°	7373.8	7249.1	7211.7	7042.2	6713.0	6296.5	5708.0	5082.1	4453.7	4396.4	3740.5
10°	8421.2	8438.6	8371.3	8259.1	7992.2	7568.3	6842.7	5987.3	5092.1	5019.8	4079.7
12.5°	9171.8	9169.3	9181.7	9179.2	9037.1	8715.4	7952.3	6967.3	5795.3	5653.2	4468.7
15°	9660.5	9668.0	9705.4	9835.1	9850.0	9650.5	9014.7	7905.0	6610.7	6433.7	4890.1
17.5°	10154.3	10206.6	10266.5	10388.7	10498.4	10418.6	9969.7	8882.5	7348.9	7216.7	5341.5
20°	10969.7	11042.0	11007.1	11081.9	11139.3	11146.8	10800.1	9785.2	8244.1	8022.2	5857.7
22.5°	12273.9	12271.4	12181.6	12047.0	11934.8	11929.8	11615.6	10712.9	9057.1	8842.6	6376.3
25°	13922.2	13929.7	13755.1	13371.1	13091.8	12750.2	12388.6	11525.8	9927.3	9663.0	6922.5
27.5°	15812.4	15765.1	15500.7	14972.1	14418.5	13834.9	13313.8	12470.9	10850.0	10630.6	7548.4
30°	17510.6	17493.2	17184.0	16538.1	15809.9	15223.9	14468.3	13655.4	12044.5	11775.2	8249.1
32.5°	19091.6	19116.6	18687.6	18019.3	17316.1	16640.3	15842.4	14787.5	13216.5	12835.0	9012.2
35°	20326.0	20350.9	19907.1	19351.0	18627.8	18066.7	17306.1	15994.5	14373.6	14051.9	9889.9
37.5°	20984.3	21016.7	20759.9	20341.0	19889.6	19607.8	18899.6	17548.0	15780.0	15585.5	10927.3
40°	21109.0	21146.4	21034.2	20922.0	20897.0	21099.0	20892.1	19378.4	17730.1	17425.8	12473.4
42.5°	20735.0	20784.8	20834.7	21084.1	21592.8	22333.4	23054.1	21862.1	20241.2	19832.2	14363.6
45°	19752.4	19747.5	19944.5	20590.3	21729.9	23310.9	25313.4	24971.7	23662.5	23176.3	17034.3
47.5°	18071.7	18046.8	18473.2	19393.4	21168.9	23490.5	27156.2	28747.2	28029.0	27580.1	19904.6
50°	15510.7	15632.9	16303.7	17587.9	19774.9	22946.9	27724.7	31223.4	31612.4	31136.1	22223.7
52.5°	12510.8	12505.8	13558.1	15301.2	17710.1	21749.9	27328.3	31672.2	32776.9	32412.9	23365.8
55°	9259.0	9323.9	10418.6	12176.6	15029.4	19565.4	26034.0	31210.9	33220.8	32964.0	24118.9
57°	6887.5	7002.3	7880.0	9740.3	12695.3	17403.4	24310.9	30385.5	33395.4	33255.7	24744.8
57.5°	6428.7	6433.7	7289.0	8979.7	12012.1	16573.0	23817.2	30041.4	33390.4	33313.1	24847.0
60°	3957.5	4082.2	4673.2	6069.6	8792.7	12934.7	20508.0	28063.9	33131.1	33243.3	25283.4
62.5°	2369.0	2421.4	2805.4	3658.2	5668.1	9441.1	16782.5	25532.8	32455.3	32796.9	25253.5
65°	1523.6	1536.1	1710.7	2214.4	3543.5	6381.3	12932.2	22188.8	30707.2	31335.6	24266.0
67.5°	1177.0	1197.0	1266.8	1453.8	2054.8	3974.9	9146.8	18620.3	27879.4	28689.8	21872.1
70°	1044.9	1054.8	1079.8	1139.6	1359.1	2244.3	5690.6	14545.6	23118.9	23348.3	17116.6
72.5°	852.8	880.3	957.6	977.5	1077.3	1401.4	3167.0	9762.8	15533.1	15590.5	9575.7
75°	660.8	665.8	780.5	837.9	907.7	965.1	1413.9	4922.5	7461.1	7062.1	3690.6
77.5°	493.7	516.2	568.6	640.9	740.6	690.7	633.4	1855.3	2316.6	2274.2	1072.3
80°	316.7	329.2	396.5	481.3	576.0	451.4	356.6	543.6	508.7	523.7	256.8
82.5°	159.6	162.1	254.4	391.5	366.6	226.9	224.4	221.9	189.5	187.0	119.7
85°	17.5	37.4	164.6	224.4	164.6	74.8	104.7	102.2	99.7	102.2	69.8
87.5°	2.5	2.5	27.4	32.4	22.4	24.9	29.9	32.4	39.9	37.4	29.9
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: P457343

CATALOG NUMBER: GALN-SA8C-830-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3024.8	3024.8	3024.8	3024.8	3024.8	3024.8	3024.8	3024.8	3024.8	3024.8	3024.8
2.5°	3114.6	3014.9	2830.3	2653.3	2521.1	2436.3	2326.6	2286.7	2229.4	2221.9	2194.4
5°	3249.3	3059.7	2738.1	2483.7	2279.2	2124.6	1990.0	1877.7	1788.0	1768.0	1778.0
7.5°	3441.3	3159.5	2710.6	2364.0	2079.7	1815.4	1600.9	1468.8	1374.0	1339.1	1344.1
10°	3658.2	3291.7	2705.6	2236.8	1802.9	1478.8	1244.3	1127.1	1072.3	1052.3	1029.9
12.5°	3915.1	3443.8	2693.2	2039.8	1498.7	1179.5	1012.4	942.6	890.2	875.3	875.3
15°	4204.3	3605.9	2633.3	1795.5	1216.9	975.0	862.8	808.0	790.5	775.5	775.5
17.5°	4506.1	3765.5	2508.6	1493.7	1009.9	835.4	765.6	733.1	708.2	690.7	690.7
20°	4850.2	3922.6	2309.1	1226.9	852.8	745.6	690.7	653.3	633.4	618.4	613.4
22.5°	5176.9	4049.7	2054.8	1007.4	743.1	670.8	620.9	581.0	561.1	553.6	553.6
25°	5516.0	4127.0	1748.1	832.9	678.3	608.5	553.6	521.2	503.7	498.7	496.2
27.5°	5845.2	4171.9	1478.8	728.2	618.4	551.1	498.7	473.8	456.3	451.4	453.9
30°	6244.2	4179.4	1216.9	653.3	566.1	496.2	448.9	426.4	416.4	411.5	409.0
32.5°	6648.2	4169.4	1022.4	608.5	516.2	448.9	409.0	391.5	384.0	376.5	376.5
35°	7102.0	4117.1	870.3	563.6	468.8	409.0	374.1	359.1	349.1	341.6	339.1
37.5°	7665.6	4089.6	783.0	513.7	426.4	371.6	339.1	324.2	316.7	306.7	304.2
40°	8553.3	4211.8	755.6	468.8	384.0	336.6	306.7	289.3	279.3	269.3	266.8
42.5°	9660.5	4426.3	710.7	423.9	346.6	304.2	274.3	254.4	236.9	224.4	219.4
45°	11094.4	4708.1	640.9	376.5	314.2	269.3	241.9	217.0	194.5	184.5	182.0
47.5°	12598.1	4979.9	578.5	339.1	279.3	239.4	209.5	182.0	162.1	154.6	152.1
50°	13520.7	5034.7	538.6	296.7	244.4	207.0	177.1	152.1	139.6	132.2	132.2
52.5°	13942.2	4947.5	483.8	259.3	212.0	182.0	152.1	132.2	124.7	119.7	117.2
55°	14236.4	4812.8	411.5	224.4	182.0	154.6	134.7	119.7	109.7	104.7	102.2
57°	14408.5	4630.8	356.6	197.0	157.1	134.7	119.7	107.2	97.3	87.3	87.3
57.5°	14416.0	4560.9	341.6	194.5	149.6	129.7	117.2	104.7	92.3	82.3	79.8
60°	14194.0	4082.2	274.3	164.6	119.7	109.7	97.3	82.3	64.8	54.9	52.4
62.5°	13480.8	3473.7	226.9	139.6	97.3	84.8	69.8	62.3	44.9	32.4	32.4
65°	12401.1	2817.9	194.5	112.2	79.8	62.3	47.4	44.9	27.4	15.0	12.5
67.5°	10840.0	2194.4	164.6	92.3	67.3	44.9	32.4	29.9	15.0	5.0	0.0
70°	8259.1	1496.2	137.2	74.8	49.9	32.4	22.4	17.5	10.0	2.5	0.0
72.5°	4760.4	822.9	114.7	57.4	37.4	24.9	17.5	10.0	10.0	0.0	0.0
75°	1700.7	354.1	87.3	42.4	29.9	19.9	12.5	5.0	7.5	2.5	0.0
77.5°	541.1	189.5	57.4	32.4	24.9	15.0	10.0	5.0	5.0	2.5	0.0
80°	159.6	99.7	34.9	27.4	17.5	12.5	7.5	2.5	5.0	2.5	0.0
82.5°	87.3	49.9	27.4	19.9	17.5	10.0	7.5	2.5	2.5	2.5	0.0
85°	44.9	29.9	22.4	19.9	17.5	10.0	7.5	2.5	0.0	2.5	2.5
87.5°	24.9	22.4	22.4	19.9	17.5	12.5	7.5	2.5	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)