

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: P455242

Luminaire Tested: **GALN-SA6B-830-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455242
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-SA6B-830-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 21944 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 243
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

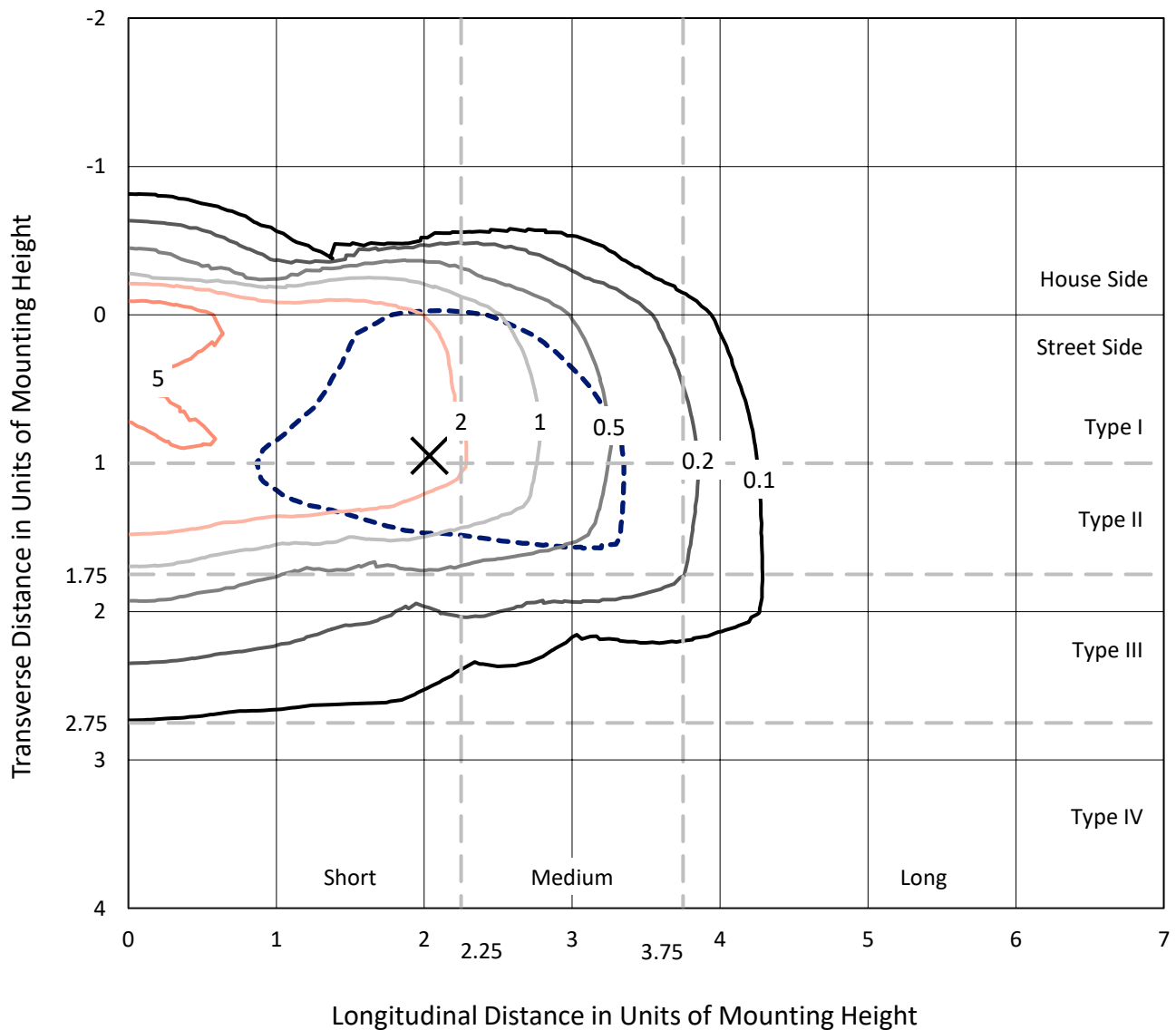


REPORT NUMBER: P455242

CATALOG NUMBER: GALN-SA6B-830-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

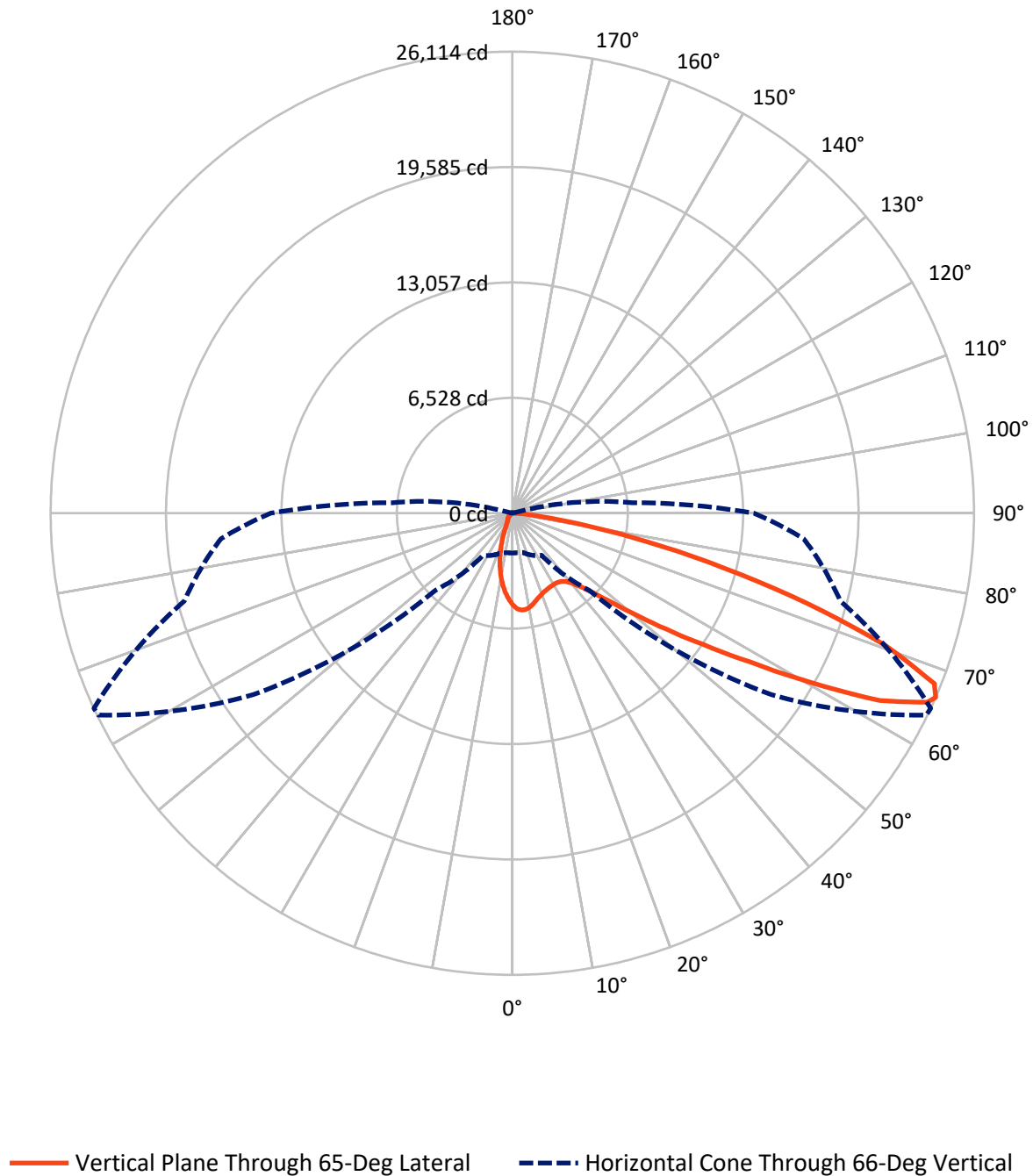


Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Short - N/A

REPORT NUMBER: P455242

CATALOG NUMBER: GALN-SA6B-830-U-SL2-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P455242

CATALOG NUMBER: GALN-SA6B-830-U-SL2-HSS

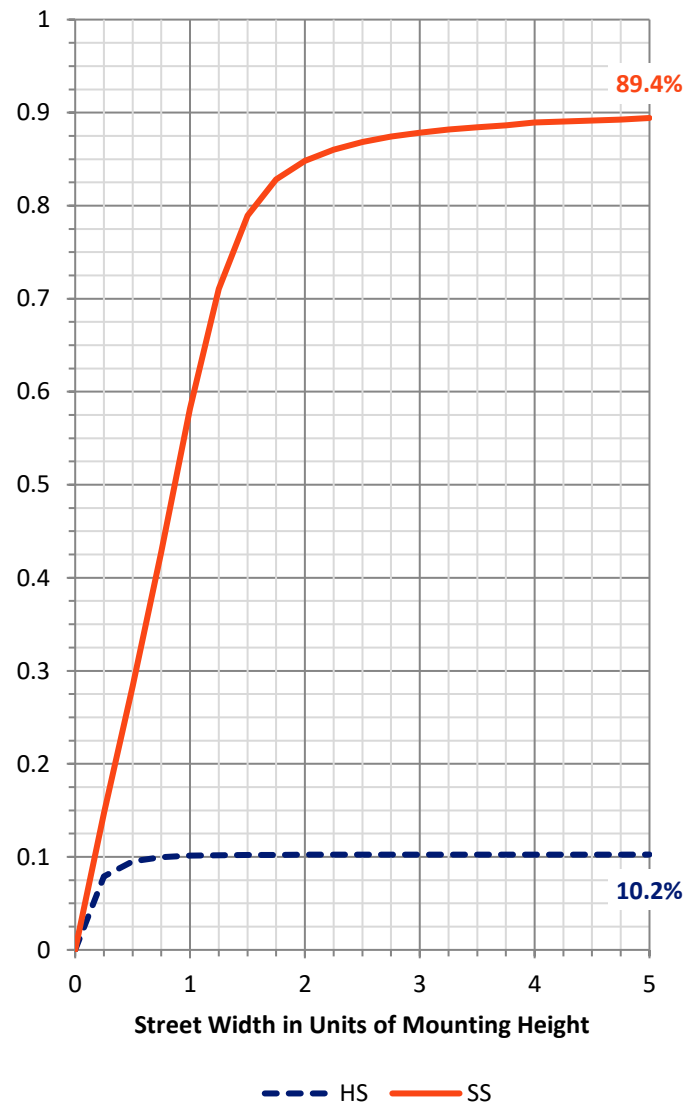
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2269.3	0.0	2269.3
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	19674.7	0.0	19674.7
	% Fixture	89.7	0.0	89.7
Total	Lumens	21944.0	0.0	21944.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.6	1.9
10°-20°	927.3	4.2
20°-30°	1328.3	6.1
30°-40°	1940.2	8.8
40°-50°	3253.3	14.8
50°-60°	5429.2	24.7
60°-70°	5763.0	26.3
70°-80°	2610.0	11.9
80°-90°	267.1	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°	21944.0	100.0
0°-180°	21944.0	100.0

Coefficient of Utilization



REPORT NUMBER: P455242

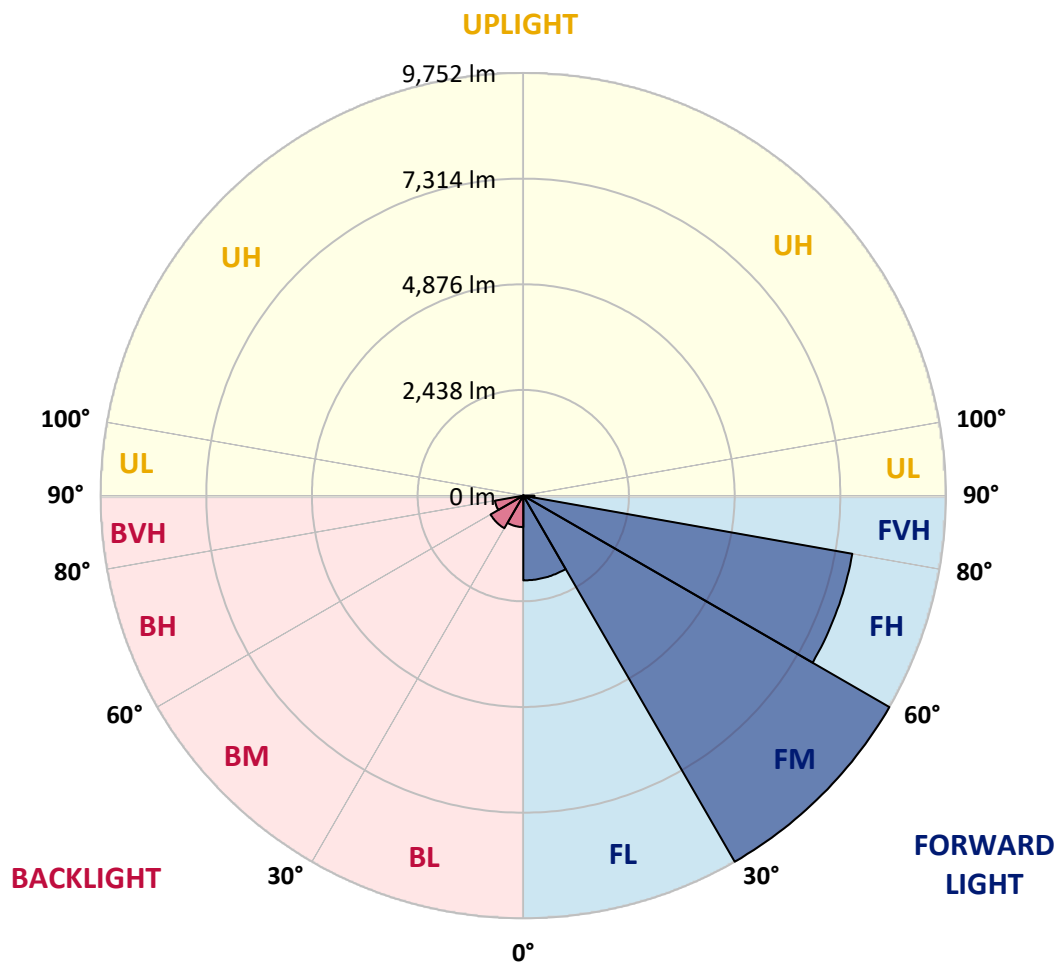
CATALOG NUMBER: GALN-SA6B-830-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1955.3	8.9			
FM	(30°-60°)	9752.4	44.4			
FH	(60°-80°)	7708.4	35.1			G4/12000
FVH	(80°-90°)	258.5	1.2			G3/500
BL	(0°-30°)	725.9	3.3	B2/1000		
BM	(30°-60°)	870.3	4.0	B1/1000		
BH	(60°-80°)	664.6	3.0	B2/1000		G2/1000
BVH	(80°-90°)	8.5	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 II Short





REPORT NUMBER: P455242

CATALOG NUMBER: GALN-SA6B-830-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	5203.7	5203.7	5203.7	5203.7	5203.7	5203.7	5203.7	5203.7	5203.7	5203.7	5203.7
2.5°	5483.9	5489.8	5497.2	5507.6	5515.0	5492.7	5461.6	5426.1	5418.6	5343.1	5251.2
5°	5190.4	5199.3	5264.5	5300.1	5380.1	5452.7	5498.7	5504.6	5501.6	5430.5	5283.8
7.5°	4772.4	4797.6	4861.4	4923.6	5073.3	5211.1	5374.2	5488.3	5495.7	5476.4	5294.1
10°	4433.0	4449.3	4481.9	4605.0	4729.5	4939.9	5168.2	5383.1	5400.9	5477.9	5285.2
12.5°	4167.7	4191.4	4231.5	4326.3	4476.0	4674.6	4934.0	5223.0	5260.1	5449.8	5260.1
15°	3982.5	3994.3	4034.3	4127.7	4273.0	4456.7	4719.1	5055.5	5088.1	5412.7	5255.6
17.5°	3895.0	3908.4	3936.5	4010.6	4130.7	4301.1	4557.5	4920.6	4962.1	5389.0	5271.9
20°	3918.7	3930.6	3932.1	3970.6	4052.1	4195.9	4439.0	4794.7	4848.0	5374.2	5298.6
22.5°	4053.6	4055.1	4037.3	4019.5	4047.7	4151.4	4366.3	4714.6	4769.5	5371.2	5329.7
25°	4255.2	4259.6	4230.0	4167.7	4111.4	4164.8	4350.0	4662.8	4711.7	5363.8	5349.0
27.5°	4533.8	4532.3	4523.4	4419.7	4259.6	4224.0	4363.4	4634.6	4676.1	5343.1	5356.4
30°	4923.6	4911.8	4892.5	4775.4	4530.8	4367.8	4419.7	4616.8	4655.3	5313.4	5337.1
32.5°	5307.5	5351.9	5349.0	5237.8	4932.5	4624.2	4536.8	4640.5	4668.7	5294.1	5309.0
35°	5755.1	5753.6	5867.7	5826.2	5469.0	4951.8	4736.9	4719.1	4741.3	5307.5	5295.6
37.5°	6170.1	6208.6	6386.5	6429.4	6103.4	5414.2	5019.9	4888.0	4895.5	5397.9	5328.2
40°	6687.3	6761.4	7026.7	7170.5	6883.0	6100.4	5437.9	5197.8	5199.3	5620.2	5451.2
42.5°	7354.3	7471.4	7718.9	7959.0	7804.9	6912.6	6064.8	5688.4	5685.4	6011.5	5732.8
45°	8165.0	8246.5	8528.1	8909.0	8811.2	8046.4	6977.8	6448.7	6410.2	6653.2	6232.3
47.5°	8864.6	8975.7	9261.8	9696.0	10140.7	9430.7	8068.7	7493.6	7468.4	7674.4	7089.0
50°	9169.9	9267.7	9568.6	10177.7	11255.2	11247.8	9693.1	9018.7	8975.7	9086.9	8414.0
52.5°	8834.9	8926.8	9230.7	9989.5	11779.9	13462.1	12046.7	10932.1	10880.3	10738.0	9996.9
55°	7687.8	7763.4	8212.4	9083.9	11578.3	14938.3	15289.6	13296.1	13094.6	12541.7	11788.8
57.5°	6121.2	6082.6	6361.3	7373.6	10395.6	15433.3	18618.4	16241.1	15880.9	14100.9	13305.0
60°	4241.8	4360.4	4473.0	5140.0	7816.7	14575.2	20688.9	19943.4	19469.2	15634.9	14757.5
62.5°	3118.4	3196.9	3271.0	3579.3	4914.7	11637.6	21055.0	23746.6	23325.6	17263.8	16143.3
65°	2466.3	2472.2	2501.8	2805.7	3238.4	7567.7	19295.8	25891.2	25783.0	18831.8	16705.0
66°	2246.9	2248.4	2294.3	2620.4	2906.4	6162.7	17886.3	26054.2	26113.5	19208.3	16540.5
67.5°	1963.8	1957.9	2024.6	2355.1	2647.1	4443.4	15363.7	25393.2	25744.5	19497.3	15949.1
70°	1522.1	1514.7	1596.2	1975.7	2438.1	2964.2	10211.8	21803.5	22369.7	18906.0	14111.3
72.5°	1013.8	1019.7	1159.0	1559.2	2326.9	2610.0	6143.4	16586.4	17386.8	15612.7	11101.1
75°	591.4	601.7	760.3	1159.0	2020.1	2488.5	3477.1	11827.3	12338.7	10781.0	6915.6
77.5°	309.8	314.2	425.4	764.8	1548.8	2310.6	2316.6	7555.9	7796.0	5239.3	2737.5
80°	164.5	160.1	228.2	460.9	1065.6	2029.0	1879.3	4000.2	4158.8	1556.2	692.2
82.5°	62.2	68.2	121.5	302.4	629.9	1456.9	1618.5	1768.2	1713.3	342.4	290.5
85°	11.9	14.8	51.9	179.3	317.2	609.2	1193.1	867.0	803.3	128.9	167.5
87.5°	1.5	3.0	14.8	43.0	45.9	206.0	352.7	240.1	207.5	47.4	69.7
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: P455242

CATALOG NUMBER: GALN-SA6B-830-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5203.7	5203.7	5203.7	5203.7	5203.7	5203.7	5203.7	5203.7	5203.7	5203.7	5203.7
2.5°	5206.7	5166.7	5033.3	4901.4	4766.5	4645.0	4562.0	4427.1	4393.0	4344.1	4315.9
5°	5196.3	5102.9	4846.5	4566.4	4305.6	4024.0	3809.1	3601.6	3490.4	3434.1	3413.3
7.5°	5166.7	5018.5	4618.3	4179.6	3761.6	3340.7	2974.6	2696.0	2516.6	2393.6	2310.6
10°	5107.4	4902.9	4353.0	3749.8	3118.4	2562.6	2098.7	1745.9	1473.2	1387.3	1390.2
12.5°	5046.6	4773.9	4056.6	3272.5	2490.0	1788.9	1296.9	1018.2	887.8	844.8	835.9
15°	4990.3	4650.9	3766.1	2810.1	1854.1	1159.0	835.9	738.1	702.5	695.1	693.6
17.5°	4960.7	4536.8	3456.3	2281.0	1293.9	787.0	669.9	643.2	632.9	625.5	622.5
20°	4935.5	4437.5	3159.9	1786.0	884.8	644.7	600.3	575.1	557.3	549.9	545.4
22.5°	4917.7	4335.2	2853.1	1382.8	677.3	572.1	532.1	499.5	474.3	465.4	459.5
25°	4891.0	4222.6	2543.3	1010.8	570.6	508.4	462.4	423.9	391.3	375.0	372.0
27.5°	4852.5	4095.1	2203.9	748.5	509.9	452.0	395.7	348.3	315.7	297.9	299.4
30°	4790.2	3961.7	1864.5	594.3	460.9	394.2	333.5	287.5	256.4	243.1	241.6
32.5°	4716.1	3800.2	1553.3	509.9	416.5	342.4	278.6	238.6	214.9	204.5	203.1
35°	4646.5	3637.1	1236.1	458.0	370.5	294.9	234.2	200.1	182.3	173.4	174.9
37.5°	4607.9	3491.9	963.4	416.5	333.5	253.4	201.6	171.9	155.6	148.2	146.7
40°	4633.1	3373.3	766.3	379.4	292.0	217.9	173.4	148.2	131.9	121.5	121.5
42.5°	4751.7	3321.4	618.0	343.9	253.4	188.2	151.2	127.5	109.7	99.3	100.8
45°	5113.3	3376.3	517.3	311.2	217.9	163.0	130.4	105.2	88.9	81.5	80.0
47.5°	5713.6	3582.3	447.6	277.2	186.7	139.3	109.7	87.4	71.1	65.2	63.7
50°	6762.9	4007.7	395.7	243.1	158.6	118.6	90.4	69.7	56.3	50.4	50.4
52.5°	8206.5	4935.5	358.7	204.5	133.4	100.8	74.1	56.3	44.5	40.0	38.5
55°	9715.3	5913.7	339.4	171.9	111.2	83.0	59.3	44.5	34.1	29.6	28.2
57.5°	11166.3	6681.4	317.2	139.3	88.9	63.7	45.9	34.1	23.7	20.7	19.3
60°	12558.0	7302.4	269.7	111.2	69.7	45.9	34.1	23.7	16.3	13.3	13.3
62.5°	13803.0	7664.1	211.9	88.9	53.4	32.6	22.2	17.8	11.9	8.9	8.9
65°	13948.3	7194.2	160.1	68.2	38.5	20.7	13.3	13.3	8.9	5.9	5.9
66°	13656.3	6795.5	140.8	62.2	34.1	17.8	11.9	10.4	7.4	4.4	4.4
67.5°	13004.1	6115.2	121.5	53.4	28.2	13.3	8.9	8.9	5.9	3.0	3.0
70°	11236.0	4994.8	96.3	40.0	20.7	10.4	5.9	5.9	4.4	3.0	3.0
72.5°	8563.7	3729.0	78.6	29.6	14.8	7.4	4.4	4.4	4.4	3.0	3.0
75°	5165.2	2008.3	60.8	22.2	13.3	5.9	3.0	4.4	5.9	4.4	3.0
77.5°	1903.0	683.3	47.4	17.8	10.4	5.9	3.0	3.0	5.9	4.4	4.4
80°	466.9	177.9	34.1	14.8	10.4	5.9	3.0	3.0	5.9	5.9	5.9
82.5°	216.4	75.6	23.7	13.3	10.4	5.9	3.0	3.0	4.4	5.9	5.9
85°	124.5	35.6	19.3	14.8	10.4	5.9	3.0	3.0	4.4	5.9	5.9
87.5°	50.4	17.8	17.8	14.8	11.9	7.4	3.0	3.0	3.0	4.4	4.4
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)