

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: P533484

Luminaire Tested: **GALN-SA8D-830-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533484
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-830-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42073 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

Input Watts (W): 493
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



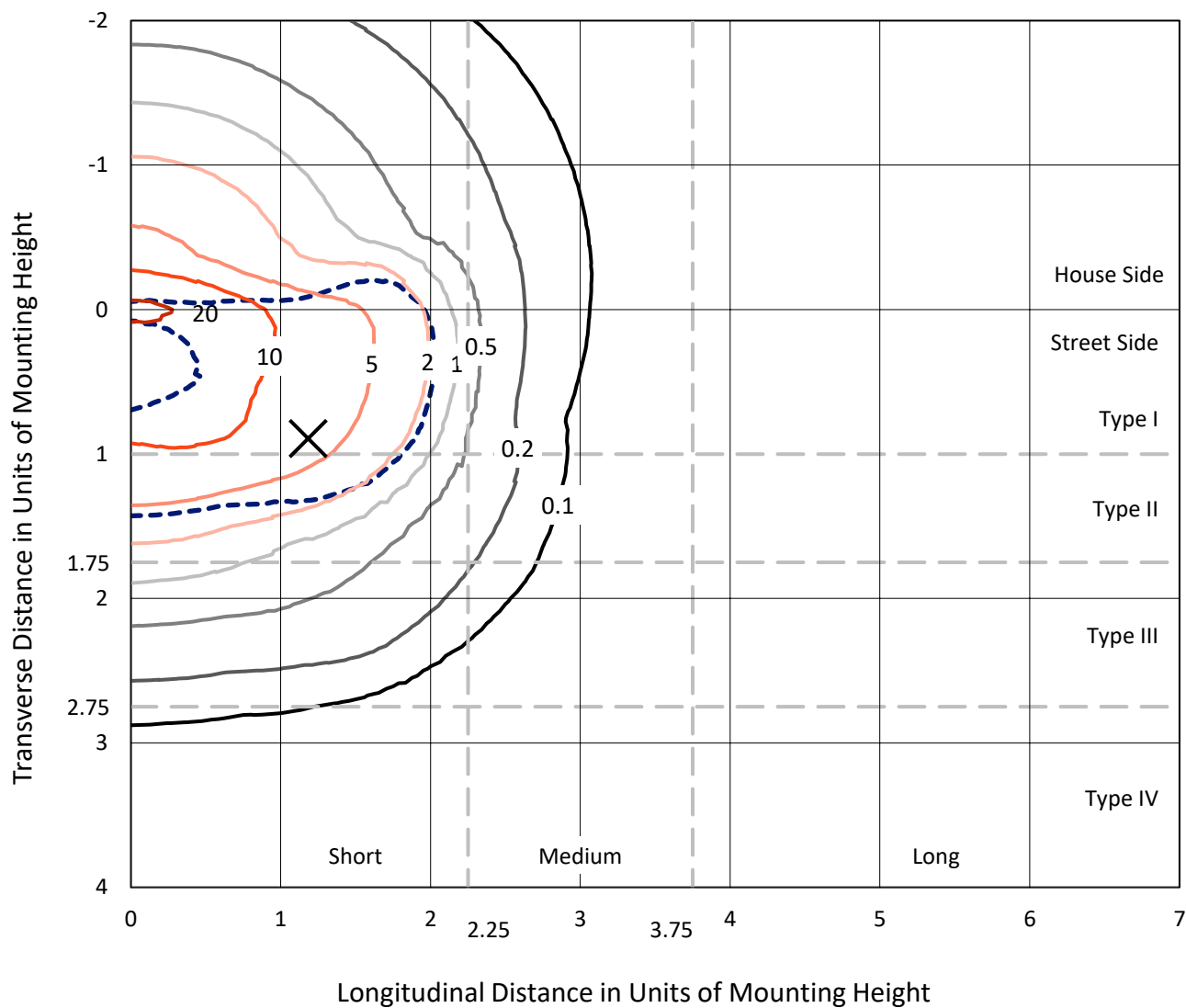
REPORT NUMBER: P533484

CATALOG NUMBER: GALN-SA8D-830-U-SL2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

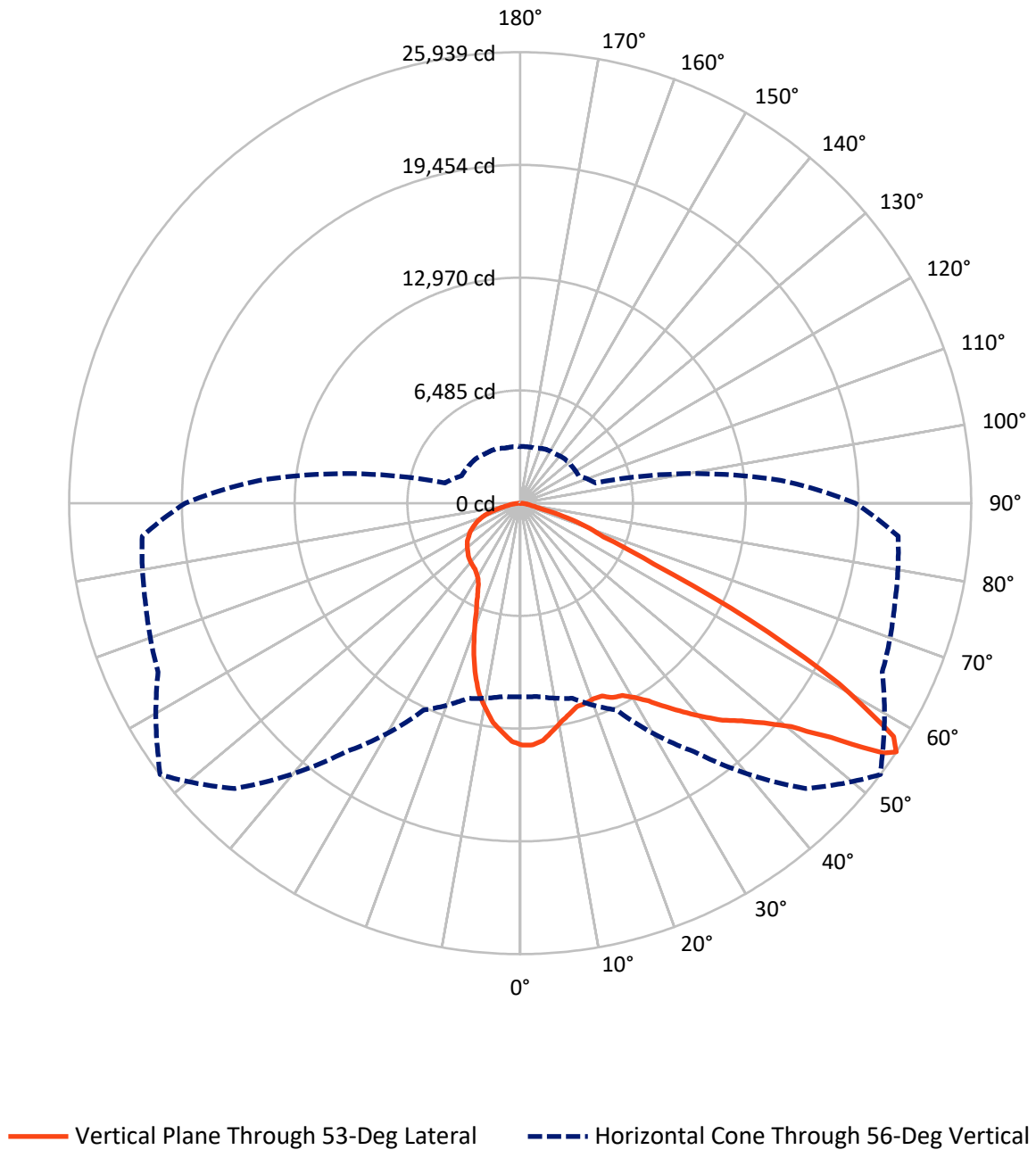


Based on 25 foot mounting height. Maximum calculated value = 22.3 fc
 Type II - Short - N/A

REPORT NUMBER: P533484

CATALOG NUMBER: GALN-SA8D-830-U-SL2-GRSWH

Luminous Intensity Polar Plot



REPORT NUMBER: P533484

CATALOG NUMBER: GALN-SA8D-830-U-SL2-GRSWH

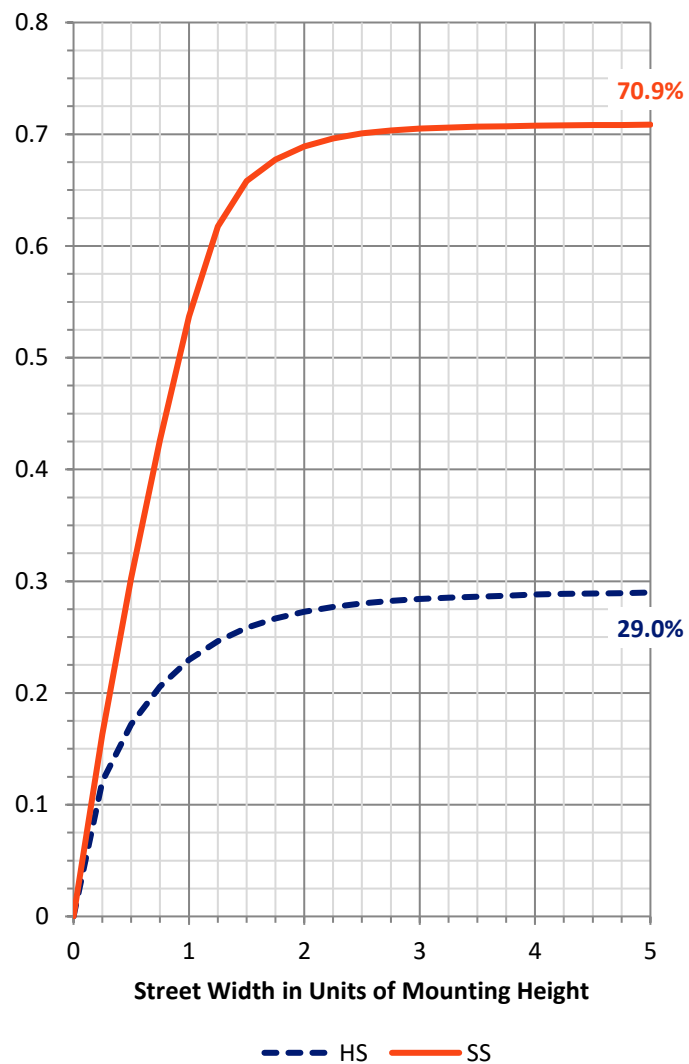
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12277.8	0.0	12277.8
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	29795.2	0.0	29795.2
	% Fixture	70.8	0.0	70.8
Total	Lumens	42073.0	0.0	42073.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1232.3	2.9
10°-20°	3077.7	7.3
20°-30°	4538.3	10.8
30°-40°	6484.3	15.4
40°-50°	8924.8	21.2
50°-60°	10546.7	25.1
60°-70°	5620.7	13.4
70°-80°	1425.9	3.4
80°-90°	222.4	0.5
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°	42073.0	100.0
0°-180°	42073.0	100.0

Coefficient of Utilization



REPORT NUMBER: P533484

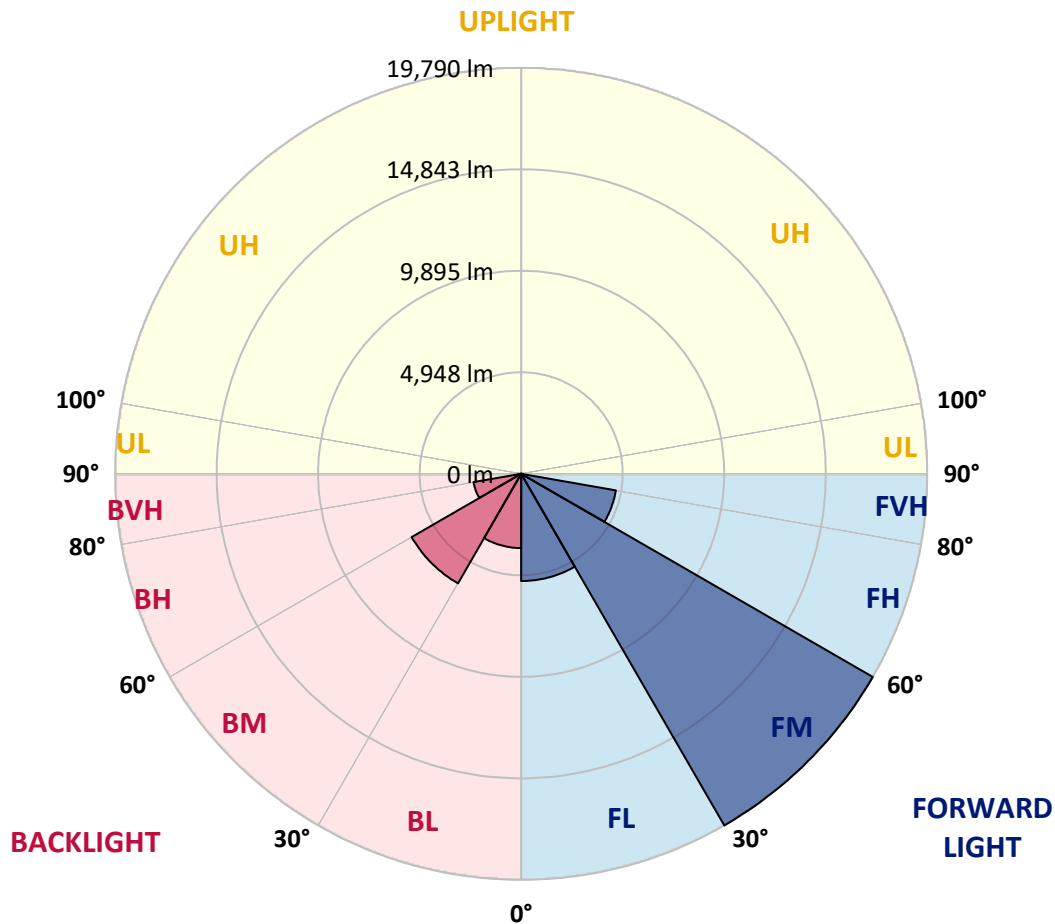
CATALOG NUMBER: GALN-SA8D-830-U-SL2-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5227.0	12.4			
FM	(30°-60°)	19790.3	47.0			
FH	(60°-80°)	4688.5	11.1			G2/5000
FVH	(80°-90°)	89.4	0.2			G1/100
BL	(0°-30°)	3621.2	8.6	B4/5000		
BM	(30°-60°)	6165.5	14.7	B4/8500		
BH	(60°-80°)	2358.1	5.6	B3/2500		G3/2500
BVH	(80°-90°)	133.0	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short



REPORT NUMBER: P533484

CATALOG NUMBER: GALN-SA8D-830-U-SL2-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	13919.4	13919.4	13919.4	13919.4	13919.4	13919.4	13919.4	13919.4	13919.4	13919.4	13919.4
2.5°	13746.7	13628.0	13698.1	13671.1	13892.4	13957.2	13924.8	13951.8	14075.9	14016.6	13892.4
5°	12845.4	13012.7	13045.1	13126.0	13255.5	13509.2	13708.9	13762.9	13822.3	14097.5	14070.5
7.5°	12025.0	12138.3	12079.0	12316.4	12597.1	13007.3	13250.2	13293.3	13838.4	13989.6	14102.9
10°	11506.9	11393.5	11663.4	11728.1	12046.6	12516.1	12807.6	12985.7	13482.2	14081.3	14151.5
12.5°	11026.5	10988.7	11150.6	11334.1	11690.4	12176.1	12473.0	12543.1	13309.5	13941.0	14270.2
15°	10670.3	10627.1	10789.0	10924.0	11339.5	11771.3	12149.1	12348.8	13120.6	13860.0	14167.7
17.5°	10389.6	10384.2	10476.0	10718.9	11145.2	11506.9	12116.7	12127.5	13023.5	13984.2	14254.0
20°	10373.4	10368.0	10384.2	10654.1	11042.7	11485.3	12014.2	12111.3	13023.5	13897.8	14259.4
22.5°	10508.4	10422.0	10519.2	10691.9	10972.5	11523.0	12052.0	12267.9	13336.5	14324.2	14502.3
25°	10724.3	10745.8	10799.8	10859.2	11021.1	11609.4	12386.6	12564.7	13703.5	14691.2	14836.9
27.5°	11118.3	11107.5	11129.0	11161.4	11301.8	11690.4	12521.5	12980.3	14469.9	15344.3	15198.5
30°	11695.8	11658.0	11744.3	11857.7	11728.1	11949.4	12969.5	13314.9	15182.4	16002.7	15603.3
32.5°	12219.3	12359.6	12521.5	12570.1	12413.6	12456.8	13563.2	13914.0	15776.0	16812.3	16099.9
35°	12872.3	12985.7	13201.6	13352.7	13325.7	13196.2	14372.8	14836.9	16634.2	17406.0	16623.4
37.5°	13509.2	13644.1	14000.4	14448.3	14200.1	14140.7	15236.3	15619.5	16898.7	17724.4	17006.6
40°	14534.7	14529.3	15144.6	15376.7	15597.9	15495.4	16132.3	16261.8	17039.0	17654.3	17017.4
42.5°	15738.3	15662.7	16288.8	16650.4	16936.4	16947.2	17066.0	17022.8	17103.8	17298.1	16904.1
45°	16882.5	17044.4	17675.9	18323.5	18609.6	18642.0	17854.0	17773.0	17217.1	17195.5	16688.2
47.5°	18280.4	18318.1	18836.3	19689.0	20352.9	20126.2	18874.0	18695.9	17713.6	17881.0	17049.8
50°	18361.3	18642.0	19106.1	20110.0	22150.2	22090.8	20196.4	19861.7	18512.4	18852.5	18059.1
52.5°	16666.6	16601.8	17152.3	18793.1	22015.2	24044.6	22387.6	21588.8	20228.7	19969.7	19694.4
55°	12699.6	12850.8	13336.5	14993.5	19116.9	24071.6	25372.3	24719.2	22063.8	21621.2	21302.8
56°	11139.8	11161.4	11620.2	13131.4	17443.8	23213.4	25939.0	25410.1	22975.9	22301.3	21815.5
57.5°	9234.6	9110.5	9348.0	10173.7	14723.6	21399.9	25318.3	25836.4	24044.6	23035.3	22360.6
60°	7270.0	7243.1	7145.9	7297.0	9304.8	16121.5	21076.1	22241.9	23936.6	22344.5	21416.1
62.5°	5936.9	5802.0	5996.3	6212.2	6465.9	10001.0	14809.9	15495.4	19003.6	17837.8	16089.1
65°	4603.8	4539.1	4781.9	5483.6	5634.7	6352.5	8435.8	8964.8	11220.8	11021.1	9704.2
67.5°	3168.2	3179.0	3389.4	4458.1	5224.5	5159.7	5165.1	5440.4	5856.0	4350.2	3788.8
70°	2007.8	2002.4	2115.7	2871.3	4204.4	4247.6	4031.7	3950.8	3745.7	2266.8	2401.8
72.5°	1289.9	1252.2	1311.5	1586.8	2175.1	2515.1	2590.7	2639.2	2169.7	1781.1	1932.2
75°	728.6	690.8	669.3	739.4	858.2	993.1	1090.2	1122.6	1257.6	1349.3	1430.3
77.5°	221.3	199.7	242.9	323.8	426.4	572.1	696.2	717.8	847.4	955.3	1036.3
80°	97.1	107.9	151.1	215.9	302.2	404.8	491.1	523.5	609.9	690.8	712.4
82.5°	59.4	64.8	102.5	145.7	210.5	286.1	350.8	361.6	448.0	512.7	528.9
85°	21.6	27.0	54.0	86.4	134.9	183.5	183.5	199.7	183.5	183.5	199.7
87.5°	0.0	0.0	5.4	10.8	10.8	16.2	21.6	21.6	27.0	32.4	37.8
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: P533484

CATALOG NUMBER: GALN-SA8D-830-U-SL2-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13919.4	13919.4	13919.4	13919.4	13919.4	13919.4	13919.4	13919.4	13919.4	13919.4	13919.4
2.5°	13957.2	13930.2	13887.0	13730.5	13714.3	13665.7	13395.9	13352.7	13395.9	13266.3	13277.1
5°	13930.2	14011.2	13687.3	13530.8	13239.4	13028.9	12786.0	12661.9	12440.6	12300.2	12456.8
7.5°	14048.9	14016.6	13611.8	13271.7	12834.6	12300.2	11873.9	11631.0	11242.4	11134.4	11215.4
10°	14005.8	13833.1	13358.1	12910.1	12084.4	11614.8	10924.0	10254.7	9887.7	9698.8	9671.8
12.5°	13946.4	13897.8	13104.4	12332.6	11463.7	10476.0	9504.5	8873.0	8273.9	8014.9	8052.6
15°	14016.6	13606.4	12629.5	11652.6	10497.6	9202.2	8155.2	7340.2	6924.6	6757.3	6757.3
17.5°	13984.2	13466.0	12402.8	10891.6	9428.9	7896.1	6746.5	6255.4	6082.7	6082.7	6131.2
20°	14000.4	13557.8	11944.0	10130.6	8166.0	6649.4	5812.8	5634.7	5710.2	5737.2	5764.2
22.5°	14092.1	13255.5	11496.1	9294.0	6994.8	5688.7	5278.5	5283.9	5418.8	5564.5	5537.5
25°	14205.5	13136.8	10950.9	8462.8	6098.8	5219.1	5089.6	5073.4	5175.9	5251.5	5262.3
27.5°	14108.3	12931.7	10395.0	7426.6	5364.8	4906.1	4879.1	4889.9	4922.3	5073.4	5024.8
30°	14426.7	12991.1	9698.8	6557.6	4960.0	4803.5	4771.1	4754.9	4803.5	4846.7	4808.9
32.5°	14820.7	12780.6	9180.7	5721.0	4760.3	4728.0	4663.2	4641.6	4668.6	4625.4	4647.0
35°	14993.5	12742.8	8506.0	5122.0	4603.8	4576.8	4539.1	4533.7	4539.1	4501.3	4468.9
37.5°	15090.6	12920.9	7734.2	4846.7	4506.7	4533.7	4447.3	4436.5	4339.4	4360.9	4377.1
40°	15257.9	12645.7	7108.1	4582.2	4447.3	4393.3	4317.8	4301.6	4236.8	4199.0	4236.8
42.5°	15015.0	12564.7	6492.8	4468.9	4360.9	4301.6	4247.6	4155.9	4134.3	4101.9	4080.3
45°	14820.7	12100.5	5942.3	4328.6	4258.4	4226.0	4123.5	4026.3	3945.4	3977.7	3929.2
47.5°	14966.5	11938.6	5397.2	4209.8	4118.1	4080.3	3977.7	3902.2	3821.2	3783.4	3772.7
50°	15549.4	12240.9	4938.4	4123.5	3999.3	3977.7	3842.8	3756.5	3680.9	3653.9	3664.7
52.5°	16941.8	13066.6	4625.4	3945.4	3886.0	3788.8	3713.3	3605.3	3556.8	3470.4	3524.4
55°	18706.7	14410.6	4544.5	3778.0	3745.7	3659.3	3556.8	3475.8	3384.1	3313.9	3297.7
56°	19273.4	15052.8	4479.7	3713.3	3659.3	3610.7	3475.8	3427.2	3281.5	3265.3	3254.5
57.5°	19732.2	15619.5	4490.5	3589.1	3535.2	3492.0	3411.0	3292.3	3195.1	3135.8	3162.8
60°	18695.9	14621.0	4285.4	3400.2	3389.4	3308.5	3195.1	3141.2	3022.4	2952.3	2936.1
62.5°	13897.8	9925.5	3475.8	3157.4	3152.0	3065.6	2936.1	2876.7	2855.1	2758.0	2758.0
65°	8004.1	6223.0	3006.2	2957.7	2914.5	2828.1	2698.6	2650.0	2596.1	2563.7	2536.7
67.5°	3416.4	3227.5	2731.0	2725.6	2677.0	2569.1	2439.5	2364.0	2293.8	2229.0	2261.4
70°	2477.3	2515.1	2466.5	2439.5	2380.2	2245.2	2131.9	2040.1	1932.2	1889.0	1921.4
72.5°	1964.6	2045.5	2115.7	2121.1	2050.9	1894.4	1770.3	1646.1	1527.4	1468.0	1495.0
75°	1489.6	1543.6	1613.8	1630.0	1527.4	1419.5	1300.7	1171.2	1079.4	1009.3	1020.1
77.5°	1074.0	1063.3	1128.0	1117.2	1068.6	993.1	885.1	766.4	663.9	599.1	604.5
80°	734.0	750.2	788.0	782.6	723.2	674.7	593.7	496.5	421.0	367.0	356.2
82.5°	512.7	539.7	572.1	545.1	496.5	448.0	388.6	318.4	259.1	215.9	205.1
85°	183.5	210.5	242.9	259.1	275.3	264.5	221.3	178.1	129.5	107.9	102.5
87.5°	37.8	43.2	48.6	48.6	48.6	43.2	37.8	37.8	32.4	16.2	16.2
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)