

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: P453403

Luminaire Tested: **GALN-SA4B-830-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453403
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14005 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 164
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

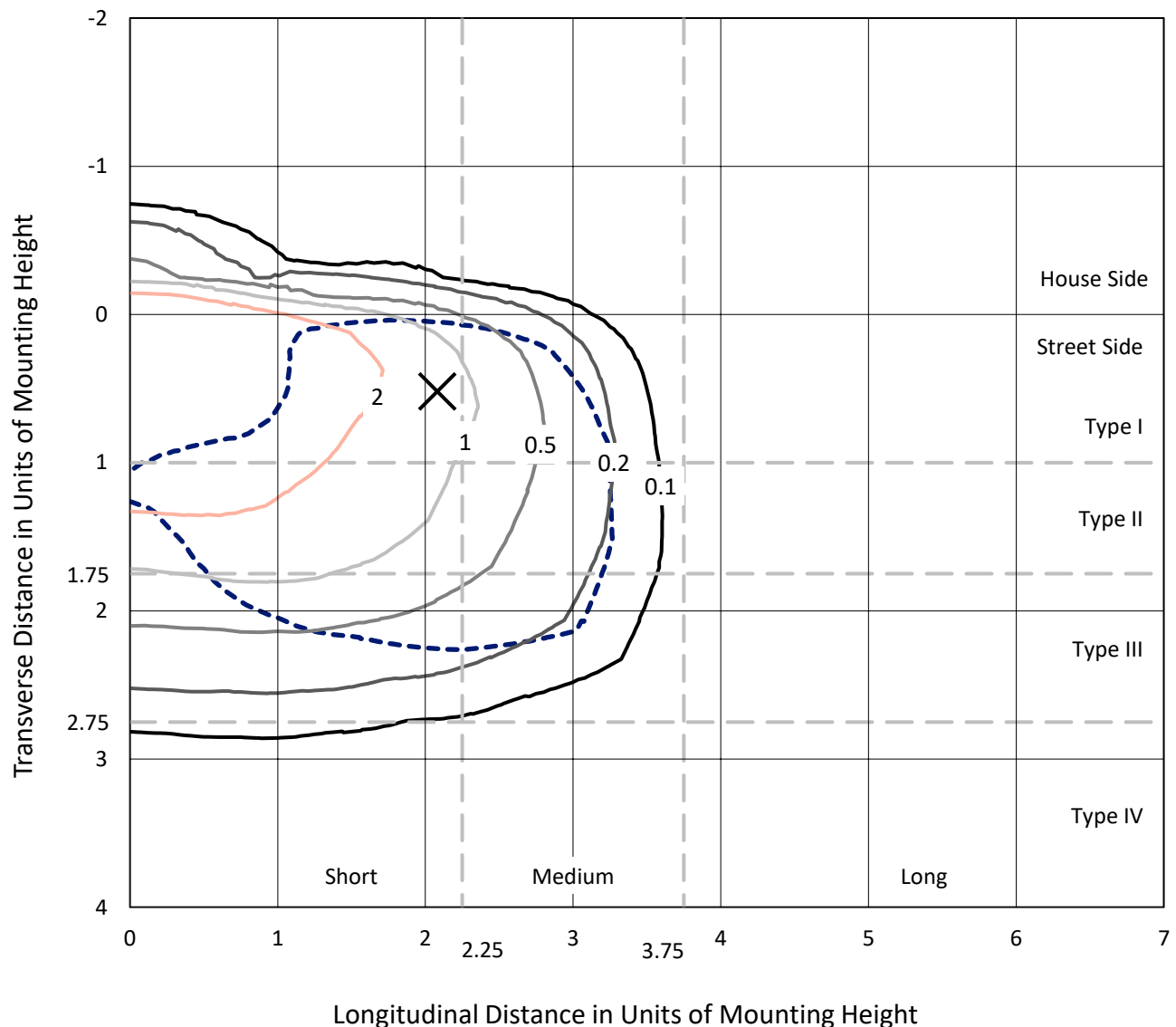


REPORT NUMBER: P453403

CATALOG NUMBER: GALN-SA4B-830-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

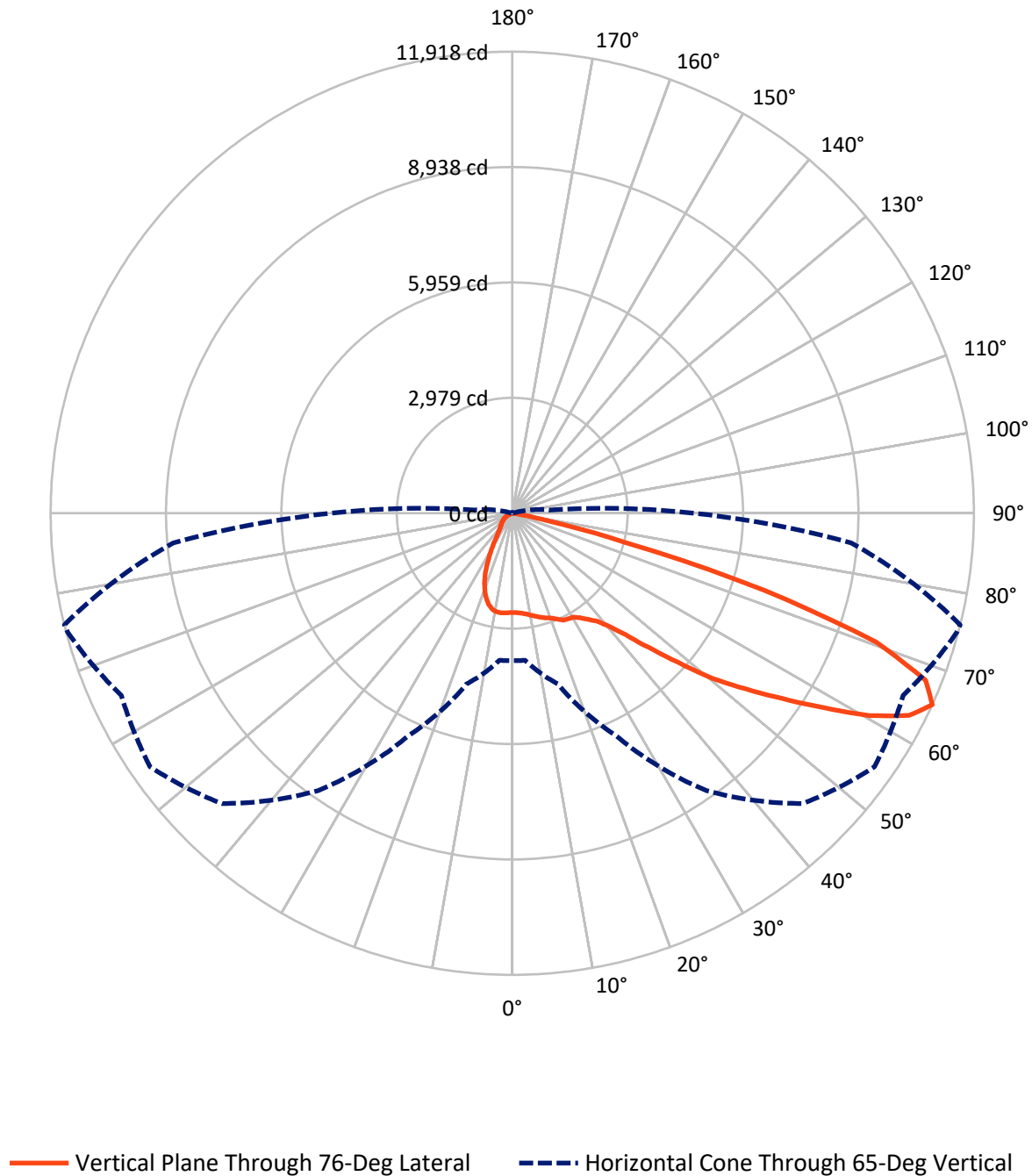
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type III - Short - N/A

REPORT NUMBER: P453403
CATALOG NUMBER: GALN-SA4B-830-U-T3R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P453403

CATALOG NUMBER: GALN-SA4B-830-U-T3R-HSS

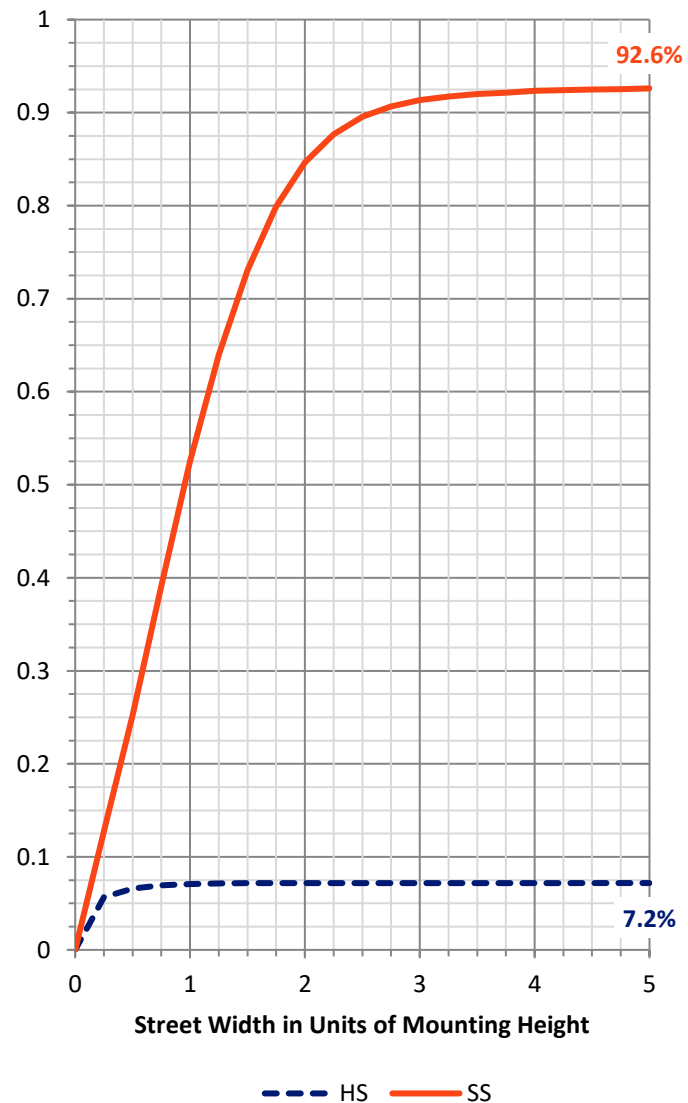
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1011.4	0.0	1011.4
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	12993.6	0.0	12993.6
	% Fixture	92.8	0.0	92.8
Total	Lumens	14005.0	0.0	14005.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.0	1.5
10°-20°	469.9	3.4
20°-30°	757.2	5.4
30°-40°	1316.6	9.4
40°-50°	2175.6	15.5
50°-60°	3360.9	24.0
60°-70°	4104.1	29.3
70°-80°	1557.6	11.1
80°-90°	52.0	0.4
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°	14005.0	100.0
0°-180°	14005.0	100.0

Coefficient of Utilization



REPORT NUMBER: P453403

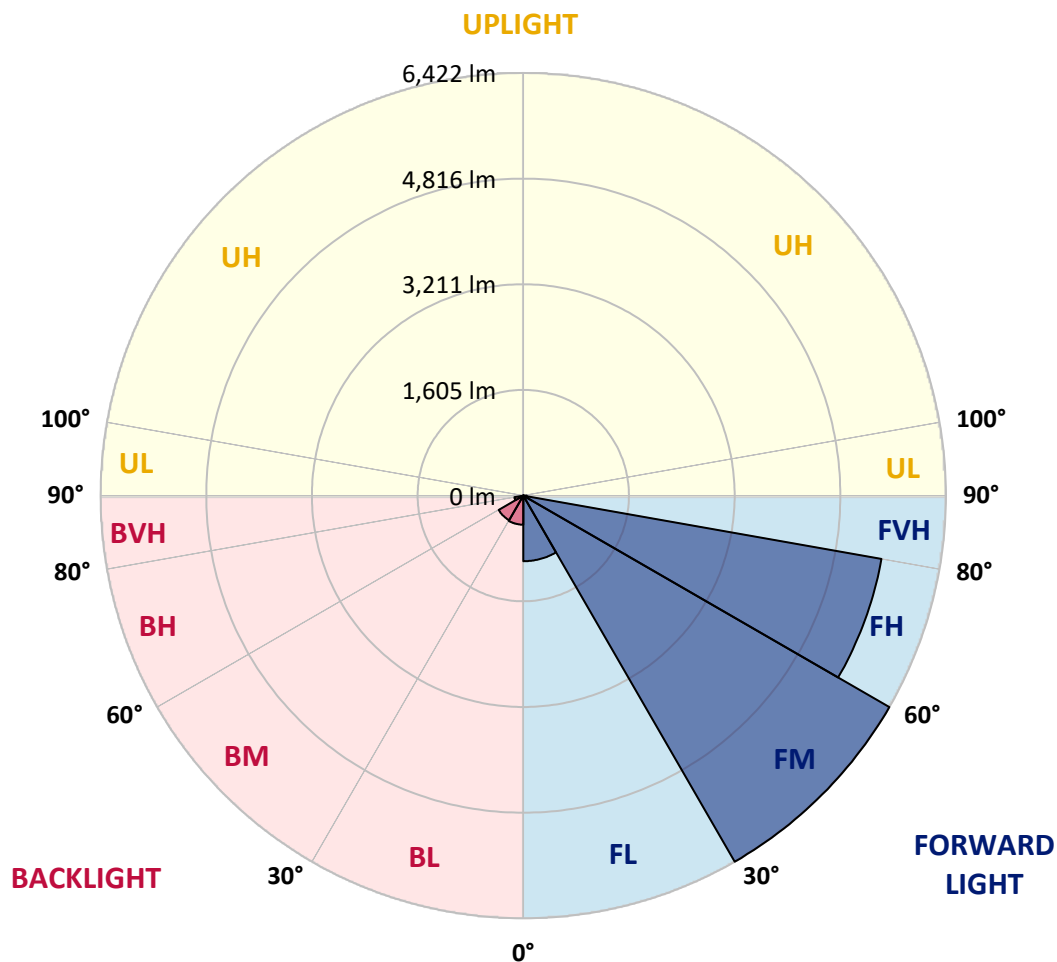
CATALOG NUMBER: GALN-SA4B-830-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	996.3	7.1			
FM	(30°-60°)	6421.5	45.9			
FH	(60°-80°)	5524.5	39.4			G3/7500
FVH	(80°-90°)	51.3	0.4			G1/100
BL	(0°-30°)	441.9	3.2	B1/500		
BM	(30°-60°)	431.6	3.1	B1/1000		
BH	(60°-80°)	137.2	1.0	B1/500		G1/500
BVH	(80°-90°)	0.7	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-G3

Type III Short



REPORT NUMBER: P453403

CATALOG NUMBER: GALN-SA4B-830-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2562.0	2562.0	2562.0	2562.0	2562.0	2562.0	2562.0	2562.0	2562.0	2562.0	2562.0
2.5°	2448.3	2449.2	2455.2	2470.0	2492.7	2511.5	2527.4	2553.1	2570.9	2572.8	2578.8
5°	2279.2	2267.3	2279.2	2317.7	2352.3	2404.7	2469.0	2533.3	2590.6	2594.6	2622.3
7.5°	2089.3	2099.2	2118.0	2157.5	2222.8	2302.9	2395.8	2510.5	2619.3	2629.2	2683.6
10°	1896.5	1918.3	1948.9	2009.2	2100.2	2204.0	2330.6	2494.7	2664.8	2678.6	2772.6
12.5°	1718.5	1728.4	1766.0	1847.1	1959.8	2106.1	2281.1	2485.8	2715.2	2732.0	2867.5
15°	1582.1	1594.9	1627.6	1700.7	1826.3	2014.2	2240.6	2482.9	2764.7	2788.4	2962.4
17.5°	1556.4	1564.3	1578.1	1627.6	1737.3	1941.0	2204.0	2481.9	2812.1	2840.8	3050.4
20°	1662.2	1655.2	1641.4	1636.5	1696.8	1884.6	2177.3	2489.8	2857.6	2890.2	3143.4
22.5°	1927.2	1936.1	1855.0	1759.1	1739.3	1875.7	2173.4	2527.4	2929.8	2968.4	3247.2
25°	2489.8	2421.6	2295.0	2065.6	1892.5	1930.1	2217.9	2616.3	3013.8	3056.4	3341.1
27.5°	3111.7	3091.0	2894.2	2516.5	2194.1	2044.8	2297.0	2684.6	3041.5	3085.0	3394.5
30°	3722.8	3747.5	3522.1	3104.8	2632.2	2257.4	2371.1	2710.3	3066.2	3111.7	3462.8
32.5°	4289.4	4319.0	4121.3	3708.0	3148.3	2625.2	2498.7	2810.1	3170.1	3216.5	3576.5
35°	4735.3	4739.3	4590.0	4260.7	3711.9	3072.2	2774.6	2985.2	3310.5	3364.9	3697.1
37.5°	5144.7	5138.8	4963.7	4680.0	4181.6	3516.1	3121.6	3186.9	3470.7	3527.0	3871.1
40°	5448.2	5452.2	5395.8	5128.9	4619.6	3926.5	3396.5	3375.7	3739.6	3827.6	4124.3
42.5°	5650.9	5687.5	5715.2	5579.8	5170.4	4431.8	3818.7	3780.2	4206.3	4279.5	4482.2
45°	5815.1	5880.3	6018.8	6011.9	5699.4	5051.7	4398.1	4319.0	4867.8	4945.9	4938.0
47.5°	5934.7	6001.0	6230.4	6368.8	6196.8	5652.9	5126.9	5058.7	5657.9	5742.9	5441.3
50°	5996.0	6075.1	6367.8	6635.8	6585.4	6232.4	5957.5	5961.4	6612.1	6694.1	6024.7
52.5°	5852.7	5955.5	6441.0	6923.5	7021.4	6787.1	6735.7	6866.2	7461.4	7531.6	6551.7
55°	5394.9	5524.4	6341.1	7168.7	7526.7	7441.7	7619.6	7818.4	8389.9	8435.4	7092.6
57.5°	5105.1	5242.6	6046.5	7377.4	8133.8	8264.3	8546.1	8691.5	9348.0	9463.7	7713.6
60°	4860.9	4968.7	5804.2	7421.9	8750.8	9270.9	9544.8	9695.1	10530.6	10605.8	8396.8
62.5°	4454.5	4578.1	5394.9	7111.4	9061.3	10076.8	10644.4	10577.1	11445.3	11497.7	8816.1
65°	3800.9	3811.8	4564.3	6331.2	8740.9	10599.9	11416.6	11134.8	11882.3	11917.9	8783.4
67.5°	2836.8	2941.7	3511.2	4976.6	7383.3	10152.9	11666.8	11149.6	11606.4	11507.6	8086.3
70°	1827.3	1907.4	2380.0	3450.9	5323.7	8473.0	10837.2	10385.3	10186.5	9967.0	6619.0
72.5°	843.4	946.3	1414.0	1971.7	3157.2	6035.6	8797.3	8437.4	7331.9	6790.0	4207.3
75°	367.8	393.5	698.1	1040.2	1480.2	3191.8	5800.3	5237.6	3311.5	3024.7	1683.9
77.5°	224.5	241.3	365.9	557.7	581.4	1216.2	3124.6	2285.1	1023.4	902.8	456.8
80°	152.3	171.1	266.0	291.7	198.7	339.2	1172.7	610.1	206.7	197.8	97.9
82.5°	74.2	93.9	196.8	163.2	86.0	108.8	341.1	130.5	60.3	56.4	34.6
85°	10.9	18.8	110.7	106.8	38.6	25.7	60.3	32.6	20.8	19.8	15.8
87.5°	0.0	0.0	37.6	16.8	4.0	4.0	6.9	6.9	7.9	6.9	7.9
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: P453403

CATALOG NUMBER: GALN-SA4B-830-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2562.0	2562.0	2562.0	2562.0	2562.0	2562.0	2562.0	2562.0	2562.0	2562.0	2562.0
2.5°	2581.7	2586.7	2567.9	2541.2	2512.5	2483.8	2443.3	2406.7	2385.0	2397.8	2366.2
5°	2628.2	2624.3	2574.8	2493.7	2386.0	2256.4	2127.9	2018.1	1982.5	1929.1	1923.2
7.5°	2692.5	2681.6	2576.8	2390.9	2147.7	1904.4	1667.1	1509.9	1419.9	1343.8	1345.7
10°	2782.5	2750.8	2554.1	2210.0	1809.5	1442.6	1140.1	932.4	842.5	813.8	791.0
12.5°	2875.4	2814.1	2490.8	1965.7	1409.0	985.8	693.1	566.6	511.2	493.4	491.4
15°	2958.5	2861.6	2380.0	1672.0	1024.4	629.9	472.6	431.1	424.2	425.2	424.2
17.5°	3040.5	2899.1	2226.8	1360.6	696.1	451.9	406.4	396.5	399.5	403.4	402.4
20°	3108.8	2907.1	2031.0	1038.2	492.4	396.5	381.7	379.7	382.7	385.6	385.6
22.5°	3182.9	2913.0	1798.6	718.9	402.4	368.8	360.9	360.9	364.9	368.8	369.8
25°	3238.3	2880.4	1520.8	516.1	355.0	342.1	338.2	339.2	343.1	345.1	344.1
27.5°	3247.2	2788.4	1226.1	395.5	322.3	309.5	305.5	309.5	304.5	307.5	305.5
30°	3255.1	2671.7	927.5	333.2	292.7	272.9	267.0	261.0	257.1	252.1	251.2
32.5°	3279.8	2534.3	677.3	299.6	265.0	243.2	229.4	212.6	199.7	195.8	194.8
35°	3290.7	2369.1	497.4	272.9	240.3	216.5	191.8	168.1	149.3	142.4	147.3
37.5°	3332.2	2209.0	385.6	253.1	218.5	188.9	157.2	127.6	109.8	105.8	107.8
40°	3417.3	2034.9	323.3	236.3	199.7	163.2	124.6	95.9	84.0	80.1	79.1
42.5°	3553.7	1861.9	287.7	220.5	180.9	137.4	97.9	75.1	65.3	62.3	62.3
45°	3719.8	1695.8	263.0	203.7	161.2	110.7	77.1	60.3	54.4	52.4	52.4
47.5°	3938.4	1550.4	242.3	186.9	139.4	88.0	62.3	52.4	48.5	49.4	50.4
50°	4159.9	1442.6	219.5	168.1	114.7	72.2	53.4	46.5	45.5	46.5	46.5
52.5°	4327.0	1379.4	188.9	142.4	90.0	60.3	47.5	43.5	42.5	40.5	40.5
55°	4552.4	1365.5	150.3	115.7	71.2	50.4	42.5	39.6	36.6	34.6	33.6
57.5°	4842.1	1381.3	115.7	90.0	55.4	41.5	37.6	32.6	28.7	24.7	24.7
60°	5022.1	1345.7	90.0	69.2	40.5	33.6	28.7	23.7	18.8	15.8	14.8
62.5°	4964.7	1195.5	71.2	51.4	28.7	24.7	18.8	15.8	10.9	7.9	6.9
65°	4669.1	965.1	57.3	35.6	20.8	14.8	9.9	9.9	4.9	1.0	0.0
67.5°	4086.7	714.9	45.5	23.7	11.9	6.9	4.9	3.0	0.0	0.0	0.0
70°	3326.3	516.1	35.6	14.8	6.9	4.9	2.0	1.0	0.0	0.0	0.0
72.5°	2112.1	295.6	27.7	8.9	4.9	2.0	0.0	0.0	0.0	0.0	0.0
75°	816.7	115.7	18.8	5.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	231.4	54.4	10.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	60.3	23.7	5.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	28.7	9.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.8	4.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	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)