

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: P453635

Luminaire Tested: **GALN-SA4C-830-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453635
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-SA4C-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA 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: 17303 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 213
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

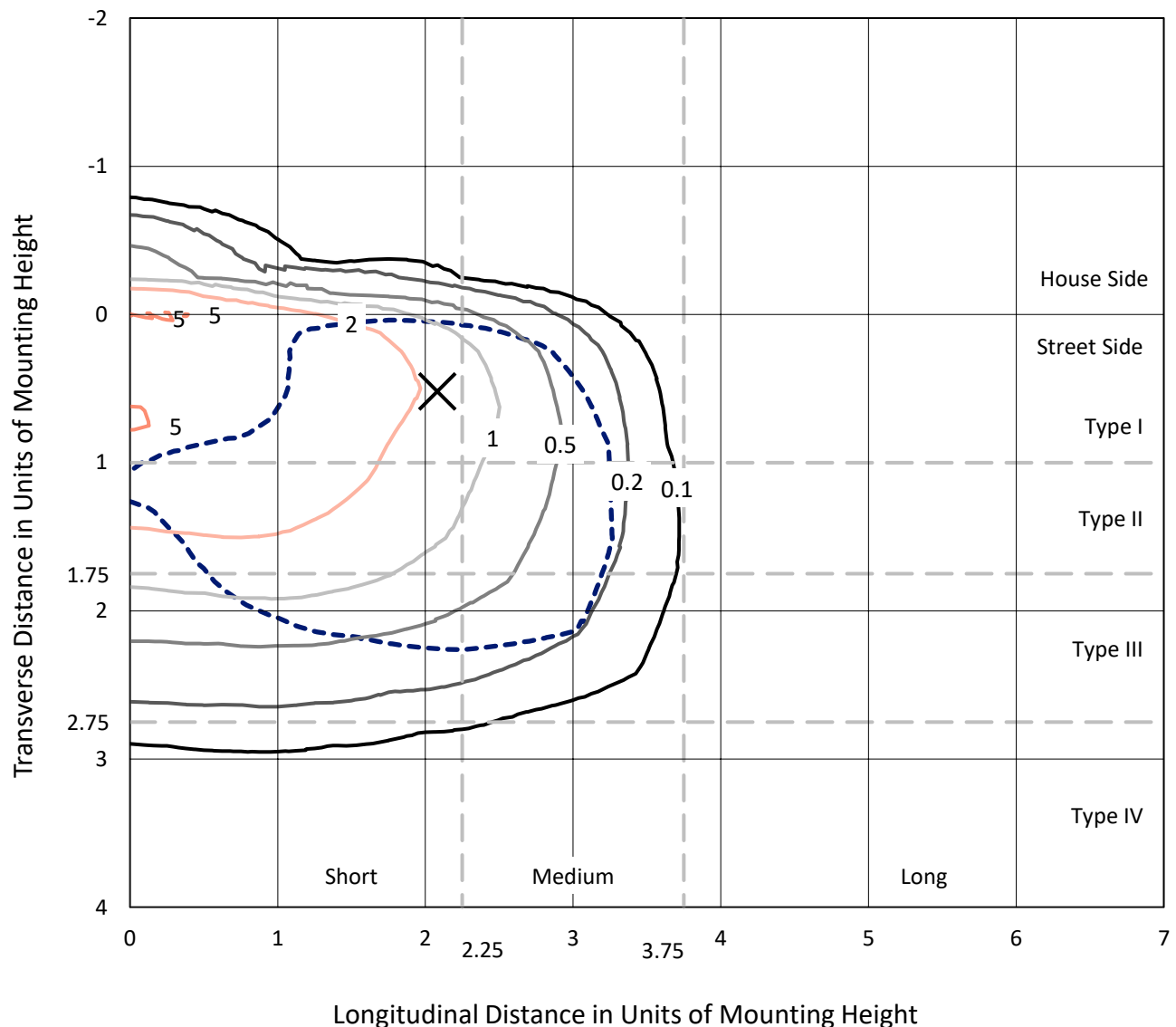


REPORT NUMBER: P453635

CATALOG NUMBER: GALN-SA4C-830-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

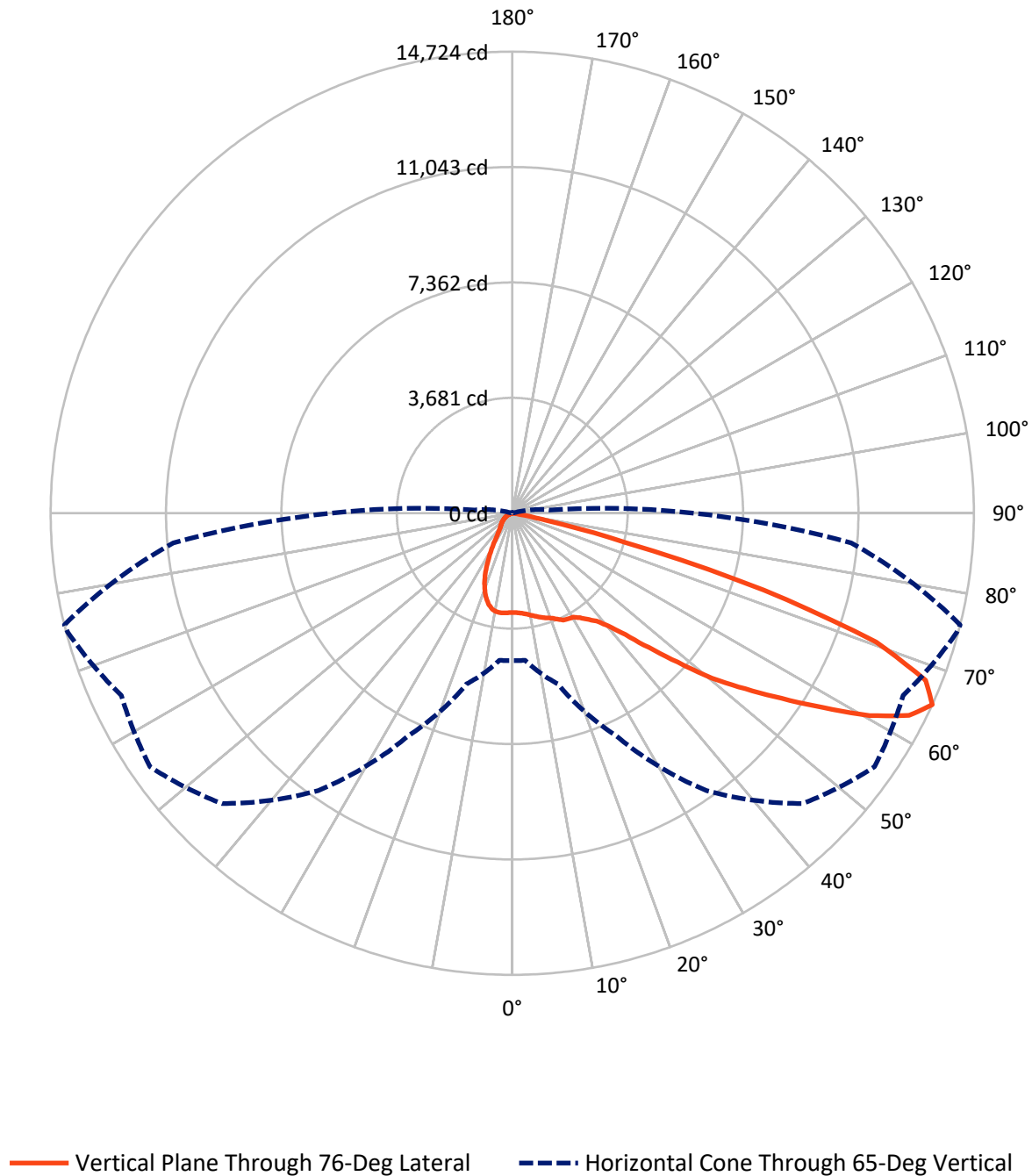
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Short - N/A

REPORT NUMBER: P453635
CATALOG NUMBER: GALN-SA4C-830-U-T3R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P453635

CATALOG NUMBER: GALN-SA4C-830-U-T3R-HSS

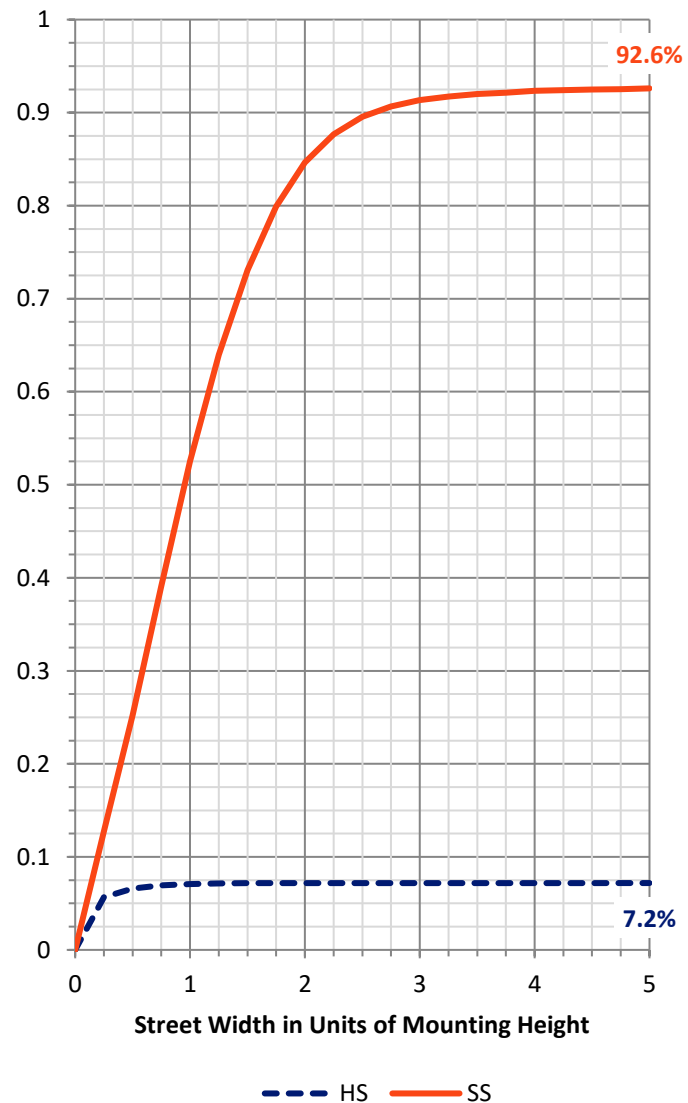
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1249.6	0.0	1249.6
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	16053.4	0.0	16053.4
	% Fixture	92.8	0.0	92.8
Total	Lumens	17303.0	0.0	17303.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.7	1.5
10°-20°	580.6	3.4
20°-30°	935.5	5.4
30°-40°	1626.7	9.4
40°-50°	2688.0	15.5
50°-60°	4152.3	24.0
60°-70°	5070.6	29.3
70°-80°	1924.4	11.1
80°-90°	64.2	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°	17303.0	100.0
0°-180°	17303.0	100.0



REPORT NUMBER: P453635

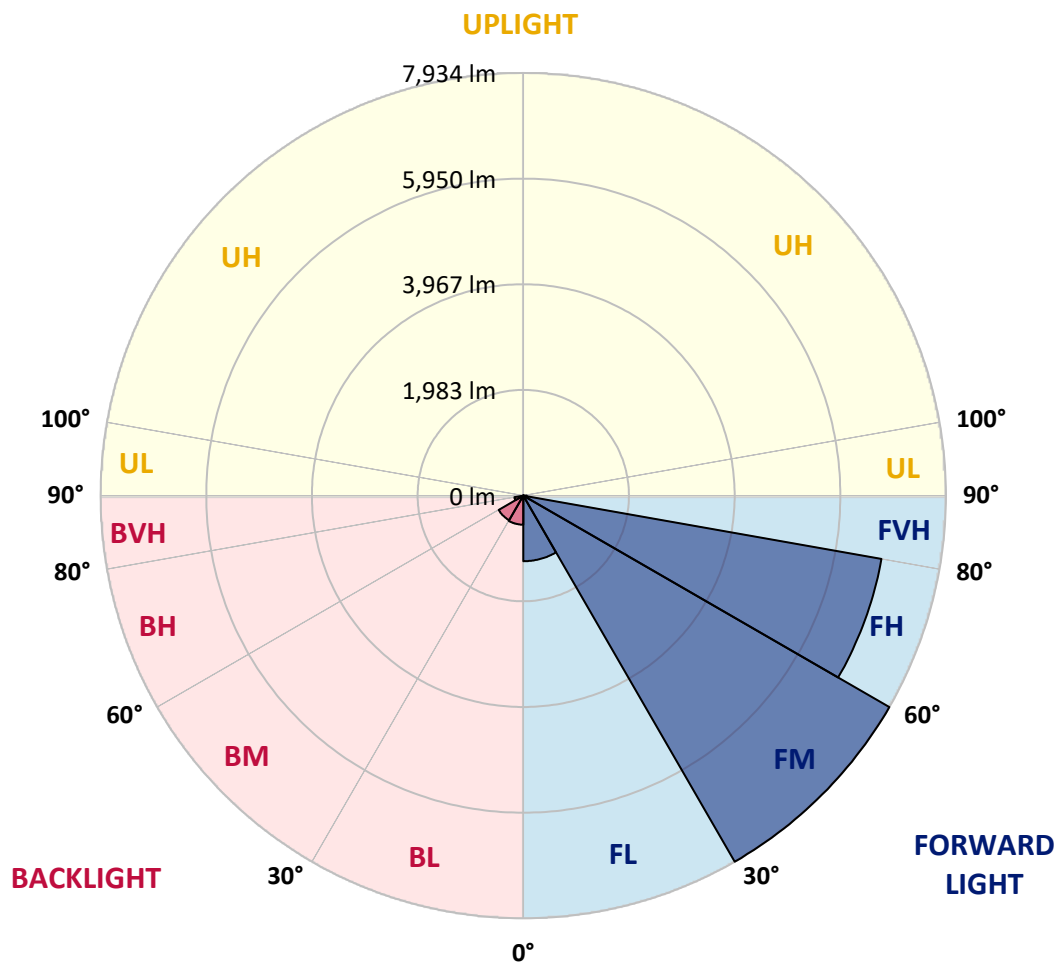
CATALOG NUMBER: GALN-SA4C-830-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1230.9	7.1			
FM	(30°-60°)	7933.7	45.9			
FH	(60°-80°)	6825.4	39.4			G3/7500
FVH	(80°-90°)	63.3	0.4			G1/100
BL	(0°-30°)	545.9	3.2	B2/1000		
BM	(30°-60°)	533.2	3.1	B1/1000		
BH	(60°-80°)	169.6	1.0	B1/500		G1/500
BVH	(80°-90°)	0.9	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 III Short





REPORT NUMBER: P453635

CATALOG NUMBER: GALN-SA4C-830-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3165.3	3165.3	3165.3	3165.3	3165.3	3165.3	3165.3	3165.3	3165.3	3165.3	3165.3
2.5°	3024.8	3026.0	3033.3	3051.7	3079.8	3103.0	3122.5	3154.3	3176.3	3178.7	3186.0
5°	2815.9	2801.2	2815.9	2863.5	2906.3	2971.0	3050.4	3129.8	3200.7	3205.6	3239.8
7.5°	2581.3	2593.5	2616.8	2665.6	2746.2	2845.2	2960.0	3101.7	3236.1	3248.3	3315.5
10°	2343.1	2370.0	2407.9	2482.4	2594.8	2723.0	2879.4	3082.2	3292.3	3309.4	3425.5
12.5°	2123.2	2135.4	2181.9	2282.0	2421.3	2602.1	2818.3	3071.2	3354.6	3375.4	3542.8
15°	1954.6	1970.5	2010.8	2101.2	2256.4	2488.5	2768.2	3067.5	3415.7	3445.0	3660.0
17.5°	1922.9	1932.6	1949.7	2010.8	2146.4	2398.1	2723.0	3066.3	3474.3	3509.8	3768.8
20°	2053.6	2045.0	2027.9	2021.8	2096.3	2328.4	2690.1	3076.1	3530.5	3570.9	3883.6
22.5°	2381.0	2392.0	2291.8	2173.3	2148.9	2317.5	2685.2	3122.5	3619.7	3667.4	4011.9
25°	3076.1	2991.8	2835.4	2552.0	2338.2	2384.6	2740.1	3232.5	3723.6	3776.1	4127.9
27.5°	3844.5	3818.8	3575.7	3109.1	2710.8	2526.4	2837.9	3316.8	3757.8	3811.5	4193.9
30°	4599.5	4630.0	4351.5	3836.0	3252.0	2789.0	2929.5	3348.5	3788.3	3844.5	4278.2
32.5°	5299.5	5336.1	5091.8	4581.2	3889.7	3243.5	3087.1	3471.9	3916.6	3974.0	4418.7
35°	5850.4	5855.3	5670.9	5264.0	4586.0	3795.6	3427.9	3688.1	4090.1	4157.2	4567.7
37.5°	6356.2	6348.9	6132.6	5782.0	5166.3	4344.2	3856.7	3937.3	4288.0	4357.6	4782.7
40°	6731.2	6736.1	6666.5	6336.7	5707.5	4851.1	4196.3	4170.7	4620.2	4729.0	5095.5
42.5°	6981.7	7026.9	7061.1	6893.7	6388.0	5475.4	4718.0	4670.3	5196.9	5287.3	5537.7
45°	7184.5	7265.1	7436.1	7427.6	7041.5	6241.4	5433.9	5336.1	6014.1	6110.6	6100.9
47.5°	7332.3	7414.1	7697.6	7868.6	7656.0	6984.1	6334.2	6249.9	6990.2	7095.3	6722.7
50°	7408.0	7505.8	7867.4	8198.4	8136.1	7700.0	7360.4	7365.3	8169.1	8270.5	7443.5
52.5°	7230.9	7357.9	7957.8	8553.9	8674.9	8385.3	8321.8	8483.1	9218.5	9305.2	8094.6
55°	6665.3	6825.3	7834.4	8856.9	9299.1	9194.1	9414.0	9659.5	10365.6	10421.8	8762.8
57.5°	6307.3	6477.1	7470.3	9114.7	10049.2	10210.5	10558.6	10738.2	11549.4	11692.3	9530.0
60°	6005.6	6138.7	7171.0	9169.6	10811.5	11454.1	11792.5	11978.2	13010.5	13103.3	10374.2
62.5°	5503.5	5656.2	6665.3	8786.0	11195.1	12449.7	13151.0	13067.9	14140.5	14205.2	10892.1
65°	4696.0	4709.4	5639.1	7822.2	10799.3	13096.0	14105.1	13756.9	14680.5	14724.4	10851.8
67.5°	3504.9	3634.4	4338.0	6148.5	9122.0	12543.8	14414.1	13775.2	14339.6	14217.5	9990.6
70°	2257.6	2356.5	2940.5	4263.5	6577.3	10468.2	13389.2	12830.9	12585.3	12314.1	8177.7
72.5°	1042.1	1169.1	1746.9	2436.0	3900.7	7456.9	10868.9	10424.3	9058.5	8389.0	5198.1
75°	454.5	486.2	862.5	1285.2	1828.8	3943.5	7166.1	6471.0	4091.3	3737.0	2080.5
77.5°	277.3	298.1	452.0	689.0	718.3	1502.6	3860.4	2823.2	1264.4	1115.4	564.4
80°	188.1	211.3	328.6	360.4	245.5	419.0	1448.9	753.8	255.3	244.3	120.9
82.5°	91.6	116.1	243.1	201.6	106.3	134.4	421.5	161.3	74.5	69.6	42.8
85°	13.4	23.2	136.8	131.9	47.6	31.8	74.5	40.3	25.7	24.4	19.5
87.5°	0.0	0.0	46.4	20.8	4.9	4.9	8.6	8.6	9.8	8.6	9.8
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: P453635

CATALOG NUMBER: GALN-SA4C-830-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3165.3	3165.3	3165.3	3165.3	3165.3	3165.3	3165.3	3165.3	3165.3	3165.3	3165.3
2.5°	3189.7	3195.8	3172.6	3139.6	3104.2	3068.8	3018.7	2973.5	2946.6	2962.5	2923.4
5°	3247.1	3242.2	3181.2	3081.0	2947.8	2787.8	2629.0	2493.4	2449.4	2383.4	2376.1
7.5°	3326.5	3313.1	3183.6	2953.9	2653.4	2352.9	2059.7	1865.4	1754.3	1660.2	1662.7
10°	3437.7	3398.6	3155.5	2730.4	2235.6	1782.4	1408.6	1152.0	1040.8	1005.4	977.3
12.5°	3552.5	3476.8	3077.3	2428.6	1740.8	1218.0	856.4	700.0	631.6	609.6	607.2
15°	3655.1	3535.4	2940.5	2065.8	1265.6	778.2	583.9	532.6	524.1	525.3	524.1
17.5°	3756.5	3581.9	2751.1	1681.0	860.0	558.3	502.1	489.9	493.5	498.4	497.2
20°	3840.8	3591.6	2509.2	1282.7	608.4	489.9	471.6	469.1	472.8	476.4	476.4
22.5°	3932.5	3599.0	2222.2	888.1	497.2	455.7	445.9	445.9	450.8	455.7	456.9
25°	4000.9	3558.6	1878.9	637.7	438.6	422.7	417.8	419.0	423.9	426.4	425.1
27.5°	4011.9	3445.0	1514.8	488.7	398.3	382.4	377.5	382.4	376.3	379.9	377.5
30°	4021.6	3300.9	1145.9	411.7	361.6	337.2	329.8	322.5	317.6	311.5	310.3
32.5°	4052.2	3131.1	836.8	370.2	327.4	300.5	283.4	262.7	246.8	241.9	240.7
35°	4065.6	2927.1	614.5	337.2	296.9	267.5	237.0	207.7	184.5	175.9	182.0
37.5°	4116.9	2729.1	476.4	312.7	270.0	233.3	194.2	157.6	135.6	130.7	133.2
40°	4222.0	2514.1	399.5	292.0	246.8	201.6	153.9	118.5	103.8	99.0	97.7
42.5°	4390.6	2300.3	355.5	272.4	223.6	169.8	120.9	92.8	80.6	77.0	77.0
45°	4595.8	2095.1	325.0	251.7	199.1	136.8	95.3	74.5	67.2	64.7	64.7
47.5°	4865.8	1915.5	299.3	230.9	172.3	108.7	77.0	64.7	59.9	61.1	62.3
50°	5139.4	1782.4	271.2	207.7	141.7	89.2	66.0	57.4	56.2	57.4	57.4
52.5°	5345.9	1704.2	233.3	175.9	111.2	74.5	58.6	53.8	52.5	50.1	50.1
55°	5624.4	1687.1	185.7	142.9	88.0	62.3	52.5	48.9	45.2	42.8	41.5
57.5°	5982.4	1706.6	142.9	111.2	68.4	51.3	46.4	40.3	35.4	30.5	30.5
60°	6204.7	1662.7	111.2	85.5	50.1	41.5	35.4	29.3	23.2	19.5	18.3
62.5°	6133.9	1477.0	88.0	63.5	35.4	30.5	23.2	19.5	13.4	9.8	8.6
65°	5768.6	1192.3	70.9	44.0	25.7	18.3	12.2	12.2	6.1	1.2	0.0
67.5°	5049.0	883.2	56.2	29.3	14.7	8.6	6.1	3.7	0.0	0.0	0.0
70°	4109.6	637.7	44.0	18.3	8.6	6.1	2.4	1.2	0.0	0.0	0.0
72.5°	2609.4	365.3	34.2	11.0	6.1	2.4	0.0	0.0	0.0	0.0	0.0
75°	1009.1	142.9	23.2	7.3	2.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	285.9	67.2	13.4	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	74.5	29.3	7.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	35.4	12.2	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.8	4.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.8	1.2	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)