

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: P532552

Luminaire Tested: **GALN-SA7D-830-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532552
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7D-830-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31889 lumens
Efficiency: N/A
Efficacy: 73.6 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): 433
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

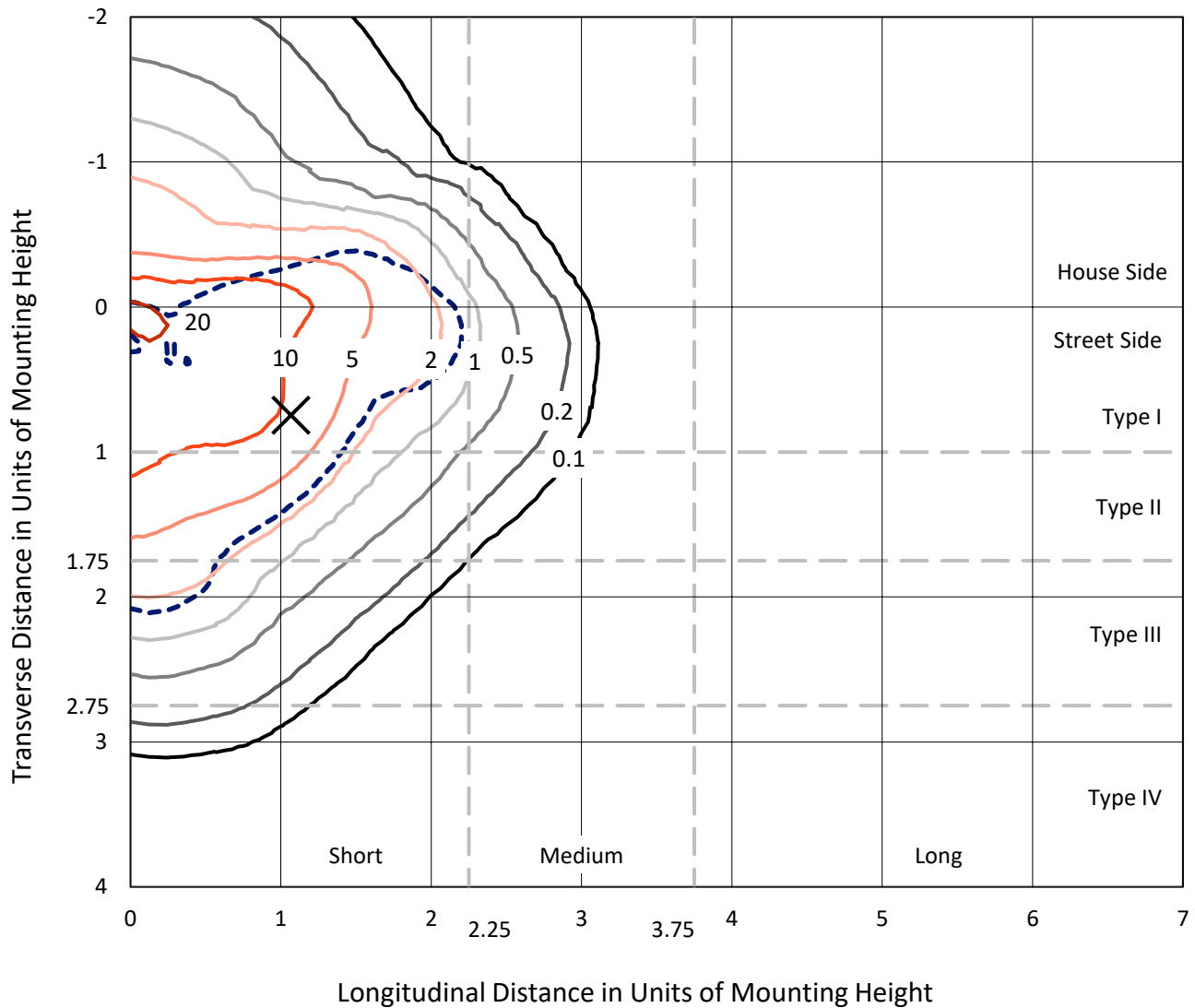


REPORT NUMBER: P532552

CATALOG NUMBER: GALN-SA7D-830-U-SLL-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

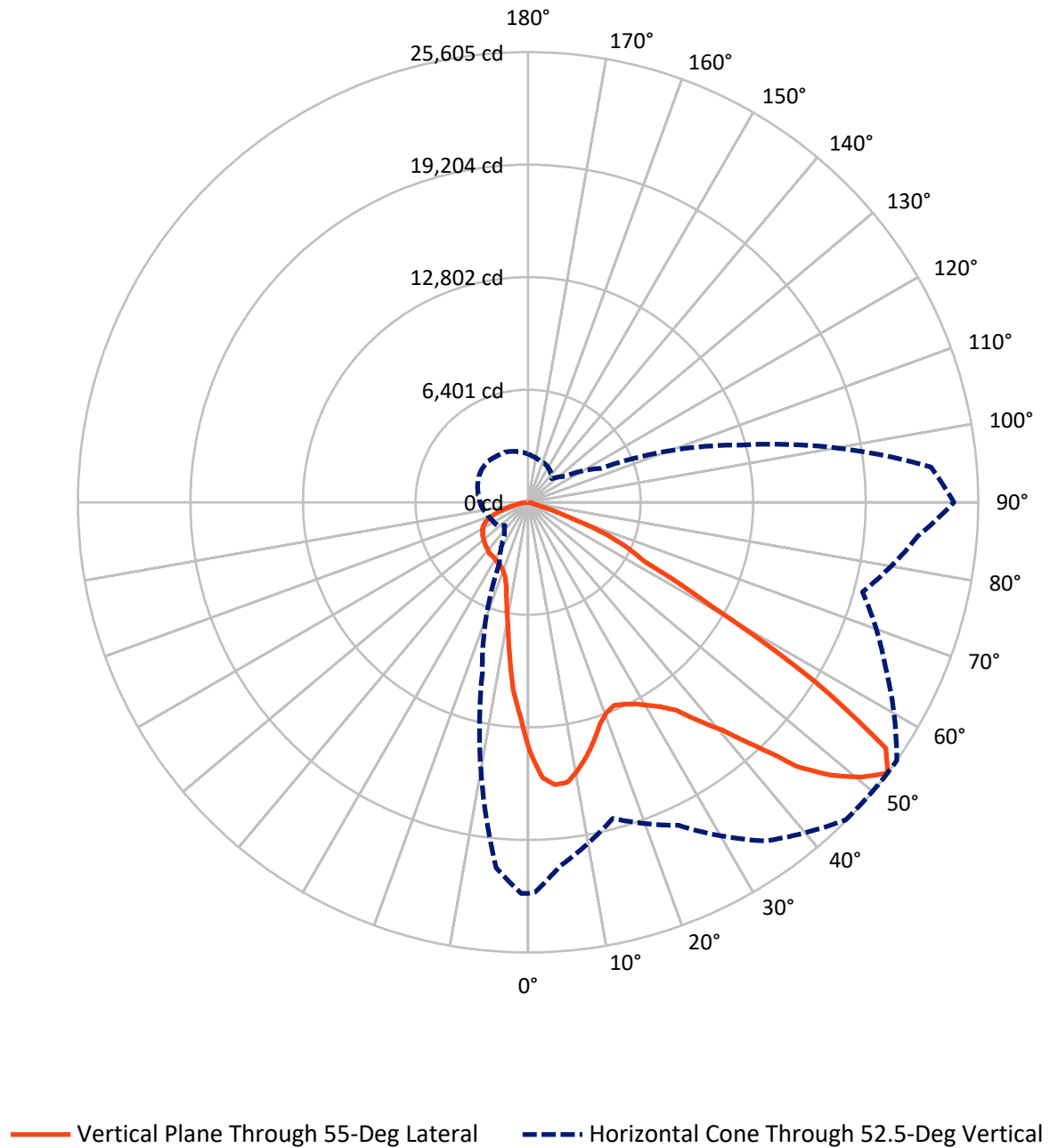
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.2 fc
Type II - Short - N/A

REPORT NUMBER: P532552
CATALOG NUMBER: GALN-SA7D-830-U-SLL-GRSWH

Luminous Intensity Polar Plot



REPORT NUMBER: P532552

CATALOG NUMBER: GALN-SA7D-830-U-SLL-GRSWH

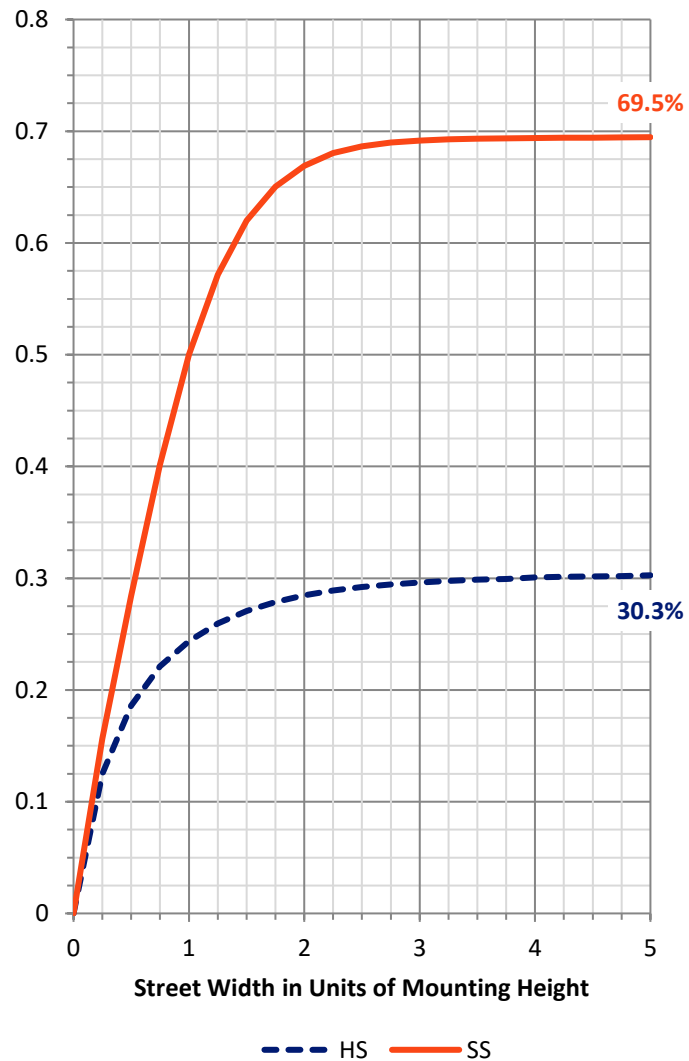
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9727.9	0.0	9727.9
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	22161.1	0.0	22161.1
	% Fixture	69.5	0.0	69.5
Total	Lumens	31889.0	0.0	31889.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1086.8	3.4
10°-20°	2343.2	7.3
20°-30°	3553.1	11.1
30°-40°	5133.6	16.1
40°-50°	6859.9	21.5
50°-60°	7657.2	24.0
60°-70°	4200.3	13.2
70°-80°	908.1	2.8
80°-90°	146.9	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°	31889.0	100.0
0°-180°	31889.0	100.0

Coefficient of Utilization



REPORT NUMBER: P532552

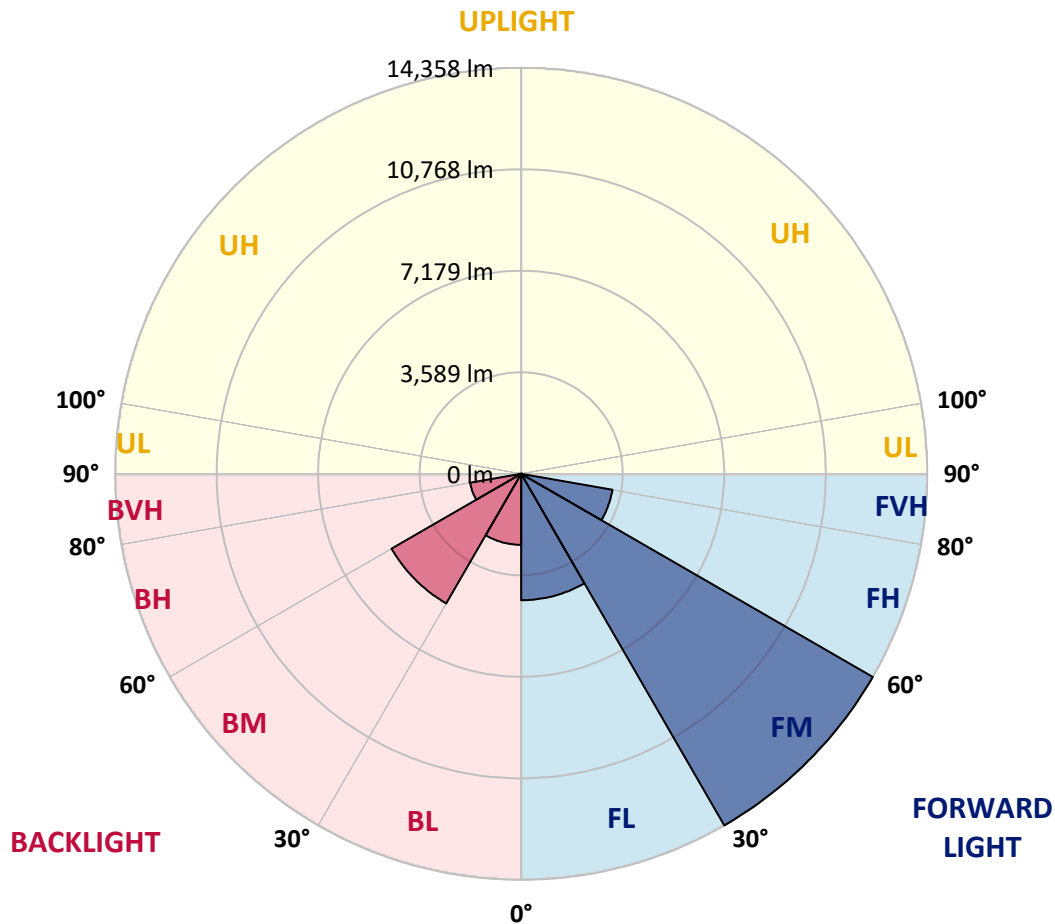
CATALOG NUMBER: GALN-SA7D-830-U-SLL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4471.4	14.0			
FM	(30°-60°)	14357.9	45.0			
FH	(60°-80°)	3277.4	10.3			G2/5000
FVH	(80°-90°)	54.4	0.2			G1/100
BL	(0°-30°)	2511.6	7.9	B4/5000		
BM	(30°-60°)	5292.8	16.6	B4/8500		
BH	(60°-80°)	1831.0	5.7	B3/2500		G3/2500
BVH	(80°-90°)	92.5	0.3			G1/100
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: P532552

CATALOG NUMBER: GALN-SA7D-830-U-SLL-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	14225.0	14225.0	14225.0	14225.0	14225.0	14225.0	14225.0	14225.0	14225.0	14225.0	14225.0
2.5°	14928.1	14844.2	14918.7	15272.6	15477.5	15617.2	15705.7	15691.7	15356.4	15030.5	15030.5
5°	14490.4	14383.3	14536.9	15337.8	16143.4	16213.2	16329.6	16138.7	15645.1	15049.1	14304.1
7.5°	13223.9	13303.0	13559.1	14611.4	15659.1	16185.3	16324.9	16082.8	15281.9	14169.1	13074.9
10°	12129.6	12315.9	12907.2	14043.4	15007.2	15691.7	15845.3	15505.4	14872.2	13507.9	12530.1
12.5°	11752.5	11636.1	12292.6	13428.7	14350.7	14718.5	14788.4	14811.7	14383.3	13172.6	11980.6
15°	11705.9	11780.4	12292.6	13154.0	13722.1	13740.7	13857.1	14038.7	14094.6	13400.8	12236.7
17.5°	12376.4	12287.9	12814.1	13498.6	13228.5	12958.5	12986.4	13247.1	13708.1	13596.4	13042.3
20°	13368.2	13568.4	13982.8	13913.0	13186.6	12502.1	12506.8	12753.6	13661.5	14406.6	14164.4
22.5°	15016.5	15212.1	15519.4	14676.6	13186.6	12367.1	12208.8	12544.0	13959.6	15370.4	15430.9
25°	16520.5	16879.0	16962.9	15971.1	13847.8	12492.8	12390.4	12721.0	14257.6	16311.0	16883.7
27.5°	17889.5	18019.8	18387.7	16804.5	14215.6	12576.6	12567.3	12991.0	14634.7	16781.3	18182.8
30°	18969.7	18955.7	19165.3	17330.7	14802.3	13046.9	12595.3	13396.1	15128.3	17558.9	19384.1
32.5°	19705.4	19863.7	20306.1	18061.7	15049.1	13493.9	13140.0	13871.1	15728.9	17926.7	20231.6
35°	20999.9	21274.6	20715.8	18466.8	15831.4	13936.3	13521.9	14518.3	16026.9	18327.2	21269.9
37.5°	22219.8	22010.3	21442.2	18685.7	16338.9	14755.8	14369.3	15770.8	16953.5	19197.9	21959.1
40°	23002.1	22997.4	21987.0	18862.6	16697.4	16008.3	15985.0	17042.0	18089.7	19747.3	22732.0
42.5°	23342.0	23667.9	22210.5	18844.0	17451.8	17526.3	17996.6	18941.8	18895.2	19859.1	22713.4
44°	23807.6	24003.2	22597.0	18885.9	17954.6	18550.7	19658.8	20259.5	19598.3	19798.5	22690.1
45°	23789.0	23802.9	22047.5	18941.8	18383.0	19407.4	20399.2	21414.3	20217.6	19668.2	22997.4
47.5°	23244.2	23085.9	21581.9	18527.4	19719.4	21670.4	22587.7	23202.3	20981.2	19388.8	22615.6
50°	22168.6	21987.0	20450.4	18350.4	19998.8	23076.6	24343.1	24566.6	21675.0	19114.1	22238.4
52.5°	22243.1	22191.9	20771.7	18615.8	20278.1	23518.9	25549.1	25604.9	22461.9	19691.4	22243.1
55°	23574.8	23397.8	21693.6	18946.4	20073.3	23002.1	24780.8	24683.0	22196.5	19342.2	22652.8
57.5°	21572.6	21689.0	20417.8	17638.0	17568.2	18699.7	19481.9	19239.8	18522.7	17456.4	21074.4
60°	17405.2	17735.8	17856.9	14751.1	13256.5	12674.4	12441.6	12013.2	12134.3	14341.4	18513.4
62.5°	14928.1	14909.4	15668.4	13372.9	8684.0	7468.7	7356.9	7454.7	8851.6	14117.9	18131.6
65°	11836.3	12152.9	12385.7	11333.4	6872.7	5545.6	5541.0	6160.3	7659.6	11799.0	14639.4
67.5°	7515.2	7929.7	8218.3	7249.8	4595.8	3948.5	3841.4	4586.4	5308.2	7738.8	8814.4
70°	4237.2	4432.8	4563.2	4181.3	2924.1	2048.8	1927.7	2104.6	3208.2	5010.2	5224.4
72.5°	1634.4	1722.8	1899.8	1913.7	1103.5	661.2	535.5	642.6	1350.3	1983.6	1890.5
75°	251.4	270.1	381.8	456.3	316.6	242.1	256.1	265.4	377.2	512.2	428.4
77.5°	121.1	121.1	116.4	135.0	158.3	172.3	186.3	204.9	223.5	246.8	237.5
80°	79.2	79.2	79.2	93.1	116.4	139.7	158.3	167.6	176.9	195.6	186.3
82.5°	51.2	51.2	51.2	69.8	93.1	116.4	125.7	149.0	167.6	195.6	181.6
85°	27.9	27.9	27.9	46.6	69.8	97.8	93.1	74.5	41.9	4.7	9.3
87.5°	9.3	9.3	9.3	9.3	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



REPORT NUMBER: P532552

CATALOG NUMBER: GALN-SA7D-830-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14225.0	14225.0	14225.0	14225.0	14225.0	14225.0	14225.0	14225.0	14225.0	14225.0	14225.0
2.5°	14639.4	14425.2	14406.6	13968.9	13577.7	13386.8	13233.2	12804.8	12897.9	12651.1	12646.5
5°	13931.6	13493.9	12786.2	12204.1	11622.1	11505.7	10998.2	10555.8	10569.8	10253.1	10309.0
7.5°	12660.4	12357.8	11496.4	10583.7	9810.8	9261.4	8781.8	8493.1	8125.2	7999.5	7934.3
10°	11854.9	11482.4	10513.9	9368.5	8502.4	8209.0	7748.1	7492.0	7114.8	6928.6	6798.2
12.5°	11501.0	10956.2	9745.6	8581.5	8004.2	7701.5	7310.4	6844.7	6397.7	6225.5	5988.0
15°	11538.3	10886.4	9522.1	8264.9	7571.1	6984.4	6635.2	6118.4	5662.0	5359.4	5187.1
17.5°	12101.7	11310.1	9624.5	8022.8	7026.3	6290.6	5606.2	5047.4	4684.2	4456.1	4400.2
20°	13433.4	12357.8	9796.8	7631.7	6481.6	5564.3	4721.5	4139.4	3860.1	3855.4	3860.1
22.5°	14541.6	13475.3	10146.1	7398.8	5936.8	4633.0	3794.9	3608.6	3552.7	3669.2	3683.1
25°	16036.3	14732.5	10746.7	7277.8	5433.9	3948.5	3431.7	3361.8	3357.2	3506.2	3510.8
27.5°	17568.2	15831.4	11105.2	6923.9	4921.7	3594.7	3212.8	3198.9	3273.4	3431.7	3417.7
30°	18611.2	16753.3	11752.5	6500.2	4316.4	3282.7	3124.4	3143.0	3245.4	3366.5	3385.1
32.5°	19826.5	17661.3	11920.1	6267.4	3943.9	3021.9	2910.2	2952.1	3082.5	3273.4	3375.8
35°	21218.7	18303.9	12176.2	5950.7	3804.2	2821.7	2765.8	2812.4	2970.7	3096.4	3208.2
37.5°	22247.7	19440.0	12222.8	5704.0	3650.5	2710.0	2621.5	2775.1	2868.3	3045.2	3101.1
40°	23011.4	20264.2	12343.8	5550.3	3529.5	2565.6	2565.6	2668.1	2793.8	2956.7	3068.5
42.5°	23500.3	20864.8	12432.3	5410.6	3296.7	2523.7	2500.4	2602.9	2770.5	2928.8	2980.0
44°	23798.3	21120.9	12343.8	5280.2	3231.5	2472.5	2472.5	2561.0	2691.3	2877.6	2938.1
45°	23872.8	21442.2	12148.3	5275.6	3152.3	2412.0	2402.6	2570.3	2658.7	2886.9	2924.1
47.5°	24161.5	21838.0	12171.5	5126.6	2961.4	2267.6	2430.6	2505.1	2584.2	2784.5	2910.2
50°	24152.2	22084.8	12120.3	4907.7	2821.7	2104.6	2374.7	2458.5	2537.7	2742.6	2793.8
52.5°	24217.4	23006.7	12590.6	4558.5	2570.3	1895.1	2188.5	2374.7	2472.5	2644.8	2751.9
55°	24184.8	23532.9	13056.2	4297.8	2216.4	1769.4	2030.1	2249.0	2388.7	2570.3	2621.5
57.5°	22089.4	20799.6	12083.1	3808.8	1834.6	1620.4	1806.6	2118.6	2295.6	2481.8	2547.0
60°	18047.8	16031.6	9964.5	2803.1	1508.6	1490.0	1680.9	2076.7	2151.2	2314.2	2425.9
62.5°	16678.8	14062.0	7901.7	2141.9	1289.8	1364.3	1550.5	1876.5	1992.9	2193.1	2295.6
65°	13051.6	9340.5	4893.8	1448.1	1136.1	1224.6	1401.5	1643.7	1834.6	2020.8	2141.9
67.5°	7729.4	5103.3	2421.3	1015.1	991.8	1084.9	1266.5	1448.1	1667.0	1871.8	1932.4
70°	4209.3	2509.7	1033.7	772.9	842.8	926.6	1103.5	1229.3	1438.8	1597.1	1699.5
72.5°	1350.3	763.6	516.8	572.7	642.6	740.3	847.4	1001.1	1150.1	1243.2	1327.0
75°	325.9	321.3	367.8	400.4	465.6	540.1	628.6	707.8	824.2	912.6	987.1
77.5°	228.2	246.8	284.0	330.6	353.9	381.8	437.7	498.2	549.4	614.6	661.2
80°	176.9	190.9	218.8	242.1	265.4	288.7	316.6	339.9	372.5	414.4	437.7
82.5°	167.6	176.9	204.9	218.8	209.5	204.9	223.5	232.8	237.5	251.4	265.4
85°	14.0	0.0	9.3	32.6	79.2	116.4	125.7	125.7	121.1	130.4	130.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	18.6	14.0
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: P532552

CATALOG NUMBER: GALN-SA7D-830-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	14225.0	14225.0	14225.0	14225.0	14225.0	14225.0	14225.0	14225.0	14225.0	14225.0	14225.0
2.5°	12590.6	12432.3	12492.8	12567.3	12460.2	12213.4	12278.6	12250.7	12502.1	12483.5	12734.9
5°	10555.8	10309.0	10337.0	10700.2	10583.7	10709.5	10458.0	10425.4	10472.0	10495.3	10537.2
7.5°	8078.7	8046.1	8325.4	8632.8	8777.1	8628.1	8381.3	8325.4	8274.2	8171.8	8404.6
10°	6593.3	6602.6	6584.0	6816.8	6979.8	6947.2	6798.2	6779.6	6681.8	6644.5	6774.9
12.5°	5885.5	5759.8	5699.3	5624.8	5750.5	5834.3	5769.1	5722.6	5727.2	5773.8	5792.4
15°	5201.1	5121.9	4991.5	4907.7	4968.3	4926.4	4903.1	4996.2	4972.9	4963.6	5075.4
17.5°	4432.8	4498.0	4488.7	4395.5	4474.7	4442.1	4437.4	4372.3	4283.8	4218.6	4255.8
20°	3925.3	4046.3	4139.4	4144.1	4186.0	4181.3	4111.5	3911.3	3846.1	3832.1	3841.4
22.5°	3743.7	3808.8	3920.6	4078.9	4078.9	4004.4	3920.6	3687.8	3627.2	3562.1	3534.1
25°	3599.3	3725.0	3869.4	3888.0	3962.5	3892.7	3757.6	3641.2	3515.5	3427.0	3427.0
27.5°	3524.8	3664.5	3771.6	3804.2	3906.6	3850.8	3711.1	3562.1	3413.1	3408.4	3329.2
30°	3492.2	3622.6	3692.4	3771.6	3818.2	3729.7	3687.8	3529.5	3380.5	3343.2	3212.8
32.5°	3394.4	3580.7	3711.1	3692.4	3729.7	3692.4	3631.9	3501.5	3333.9	3250.1	3236.1
35°	3282.7	3468.9	3608.6	3706.4	3729.7	3650.5	3613.3	3436.3	3208.2	3166.3	3021.9
37.5°	3222.2	3333.9	3506.2	3664.5	3697.1	3655.2	3529.5	3347.9	3119.7	3073.2	2947.4
40°	3147.7	3292.0	3427.0	3557.4	3655.2	3552.7	3408.4	3231.5	3129.0	2989.3	2952.1
42.5°	3091.8	3254.7	3366.5	3510.8	3622.6	3487.6	3319.9	3198.9	3054.5	2961.4	2854.3
44°	3073.2	3222.2	3296.7	3473.6	3566.7	3464.3	3324.6	3198.9	3031.2	2947.4	2854.3
45°	3008.0	3212.8	3292.0	3450.3	3529.5	3445.7	3268.7	3143.0	3021.9	2919.5	2821.7
47.5°	2942.8	3082.5	3217.5	3343.2	3399.1	3371.2	3222.2	3068.5	2924.1	2863.6	2770.5
50°	2924.1	3063.8	3189.6	3306.0	3371.2	3315.3	3180.2	3031.2	2863.6	2765.8	2686.7
52.5°	2831.0	3003.3	3143.0	3180.2	3264.1	3231.5	3129.0	2966.1	2807.7	2723.9	2658.7
55°	2696.0	2877.6	3068.5	3115.1	3236.1	3184.9	3031.2	2877.6	2742.6	2616.8	2533.0
57.5°	2644.8	2821.7	3008.0	3068.5	3143.0	3059.2	3021.9	2859.0	2644.8	2579.6	2449.2
60°	2514.4	2737.9	2891.6	3031.2	3035.9	3012.6	2947.4	2761.2	2584.2	2463.2	2370.1
62.5°	2412.0	2621.5	2742.6	2872.9	2952.1	2886.9	2821.7	2649.4	2458.5	2323.5	2216.4
65°	2263.0	2453.9	2556.3	2635.5	2723.9	2714.6	2602.9	2477.1	2276.9	2169.8	2067.4
67.5°	2034.8	2202.4	2342.1	2416.6	2472.5	2458.5	2374.7	2286.2	2081.4	1974.3	1899.8
70°	1760.1	1932.4	2020.8	2062.7	2118.6	2146.5	2081.4	2039.5	1857.9	1718.2	1648.3
72.5°	1415.5	1527.3	1657.6	1694.9	1718.2	1736.8	1736.8	1699.5	1513.3	1457.4	1336.4
75°	1043.0	1131.5	1229.3	1229.3	1271.2	1275.8	1285.1	1261.9	1122.2	1047.7	1019.7
77.5°	707.8	772.9	852.1	884.7	912.6	908.0	903.3	838.1	763.6	731.0	703.1
80°	461.0	526.2	563.4	605.3	633.3	628.6	637.9	591.3	558.8	502.9	512.2
82.5°	274.7	325.9	363.2	414.4	414.4	428.4	428.4	414.4	381.8	353.9	353.9
85°	130.4	172.3	195.6	228.2	246.8	251.4	223.5	190.9	158.3	144.3	158.3
87.5°	23.3	32.6	46.6	41.9	51.2	46.6	46.6	46.6	46.6	37.3	41.9
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: P532552

CATALOG NUMBER: GALN-SA7D-830-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	14225.0	14225.0	14225.0	14225.0	14225.0	14225.0	14225.0	14225.0	14225.0	14225.0
2.5°	12641.8	12874.6	13037.6	13307.7	13773.3	14145.8	14527.6	14811.7	14844.2	14928.1
5°	10690.8	10816.6	11231.0	11771.1	12152.9	12781.5	13186.6	13922.3	14197.0	14490.4
7.5°	8348.7	8553.6	9107.7	9470.9	10309.0	11095.9	11910.8	12818.8	13182.0	13223.9
10°	7040.3	7338.3	7715.5	8297.5	8753.8	9629.2	10644.3	11654.7	12059.8	12129.6
12.5°	6183.6	6565.4	7068.2	7487.3	7925.0	8688.6	9661.8	10909.7	11435.8	11752.5
15°	5359.4	5755.2	6309.3	6891.3	7277.8	8190.4	9335.9	10742.1	11426.5	11705.9
17.5°	4511.9	4879.8	5336.1	5964.7	6742.3	7766.7	9284.6	11300.8	12050.5	12376.4
20°	3785.6	3990.4	4521.3	5168.5	6141.6	7333.7	9303.3	12125.0	13223.9	13368.2
22.5°	3501.5	3548.1	3757.6	4353.6	5419.9	6891.3	9633.9	13293.7	14541.6	15016.5
25°	3282.7	3273.4	3329.2	3729.7	4893.8	6719.0	9959.8	14369.3	16003.7	16520.5
27.5°	3161.6	3068.5	3073.2	3450.3	4521.3	6439.6	10378.9	15603.2	17661.3	17889.5
30°	3101.1	3082.5	3026.6	3180.2	4116.2	6020.6	10448.7	16818.5	18639.1	18969.7
32.5°	3063.8	2882.2	2812.4	2868.3	3734.3	5564.3	10709.5	17619.4	19849.8	19705.4
35°	2877.6	2714.6	2668.1	2723.9	3464.3	5308.2	10537.2	18317.8	20757.7	20999.9
37.5°	2807.7	2663.4	2570.3	2523.7	3212.8	5094.0	10448.7	19393.4	21637.8	22219.8
40°	2742.6	2588.9	2477.1	2430.6	3017.3	4809.9	10420.8	20222.3	22652.8	23002.1
42.5°	2668.1	2570.3	2444.6	2360.7	2779.8	4525.9	10099.5	20478.4	22964.8	23342.0
44°	2644.8	2495.8	2365.4	2337.5	2686.7	4381.6	10034.3	20711.2	23234.9	23807.6
45°	2621.5	2481.8	2332.8	2295.6	2654.1	4302.4	9945.8	20767.0	23681.9	23789.0
47.5°	2556.3	2467.8	2323.5	2221.0	2584.2	4130.1	9680.4	20450.4	23225.6	23244.2
50°	2505.1	2402.6	2253.6	2053.4	2491.1	3985.8	9801.5	20334.0	22126.7	22168.6
52.5°	2449.2	2295.6	2211.7	1867.2	2337.5	3864.7	10057.6	20860.2	22252.4	22243.1
55°	2384.0	2216.4	2011.5	1708.9	2081.4	3711.1	10676.9	21898.5	23416.5	23574.8
57.5°	2281.6	2137.2	1843.9	1569.2	1788.0	3417.7	10476.6	19910.3	21544.6	21572.6
60°	2146.5	2011.5	1671.6	1462.1	1466.7	2696.0	9368.5	15514.8	17000.1	17405.2
62.5°	2016.2	1941.7	1527.3	1308.4	1247.9	2146.5	7920.3	12893.3	14592.8	14928.1
65°	1862.5	1680.9	1401.5	1192.0	1070.9	1504.0	5610.8	9633.9	11384.6	11836.3
67.5°	1667.0	1471.4	1233.9	1047.7	917.3	1005.8	2896.2	5475.8	7249.8	7515.2
70°	1457.4	1275.8	1038.4	884.7	740.3	693.8	1275.8	2612.2	3962.5	4237.2
72.5°	1196.7	1029.0	828.8	698.4	554.1	479.6	428.4	698.4	1406.2	1634.4
75°	866.1	749.7	623.9	498.2	391.1	307.3	251.4	209.5	232.8	251.4
77.5°	637.9	544.8	461.0	353.9	274.7	218.8	172.3	130.4	125.7	121.1
80°	498.2	442.3	367.8	284.0	214.2	163.0	121.1	88.5	79.2	79.2
82.5°	391.1	363.2	302.7	232.8	176.9	130.4	88.5	60.5	51.2	51.2
85°	149.0	149.0	218.8	190.9	135.0	93.1	60.5	32.6	27.9	27.9
87.5°	37.3	37.3	37.3	37.3	32.6	27.9	27.9	14.0	9.3	9.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)