

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: P534194

Luminaire Tested: **GALN-SA9C-830-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534194
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-830-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42482 lumens
Efficiency: N/A
Efficacy: 88.3 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): 481
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

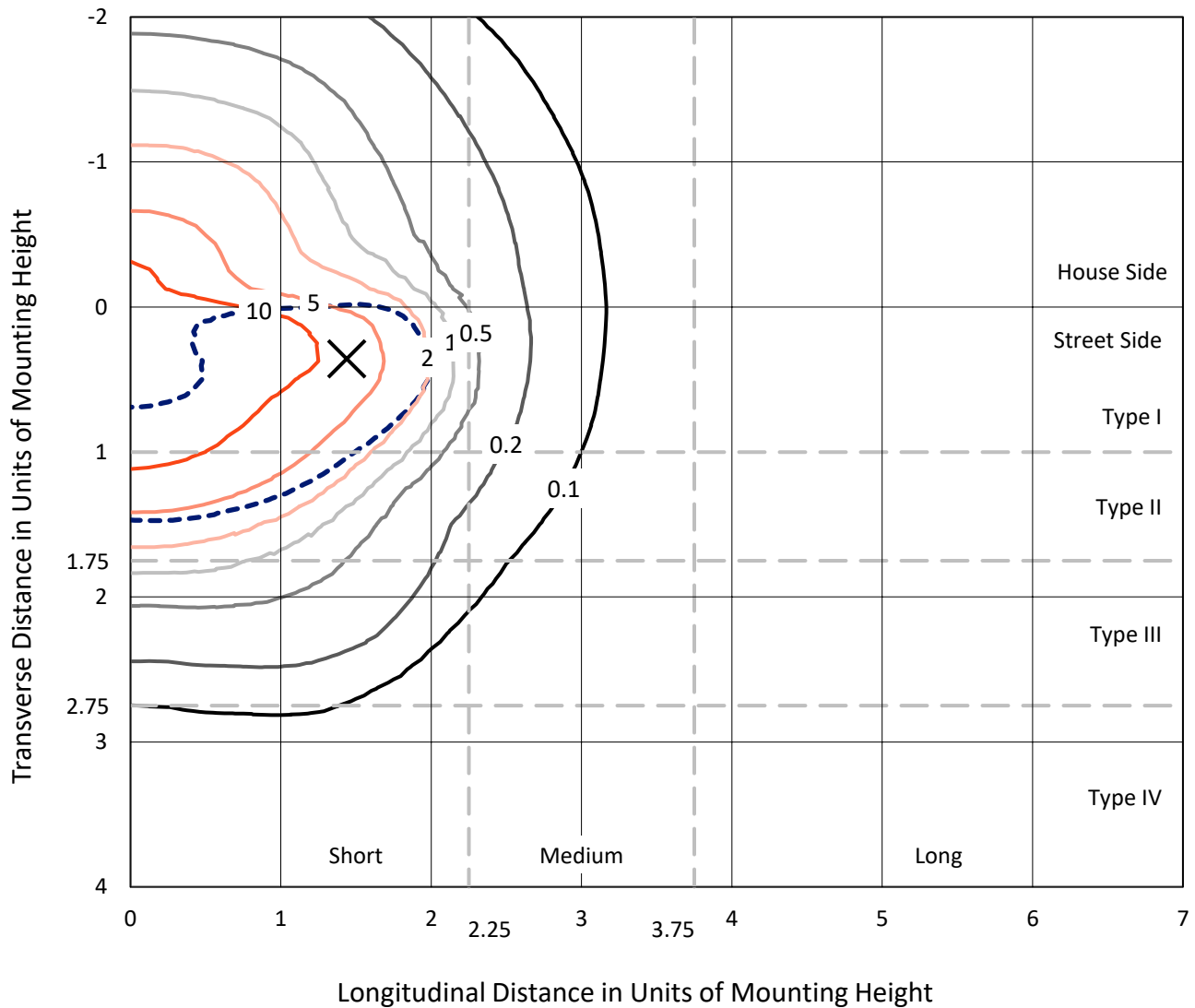


REPORT NUMBER: P534194

CATALOG NUMBER: GALN-SA9C-830-U-T2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

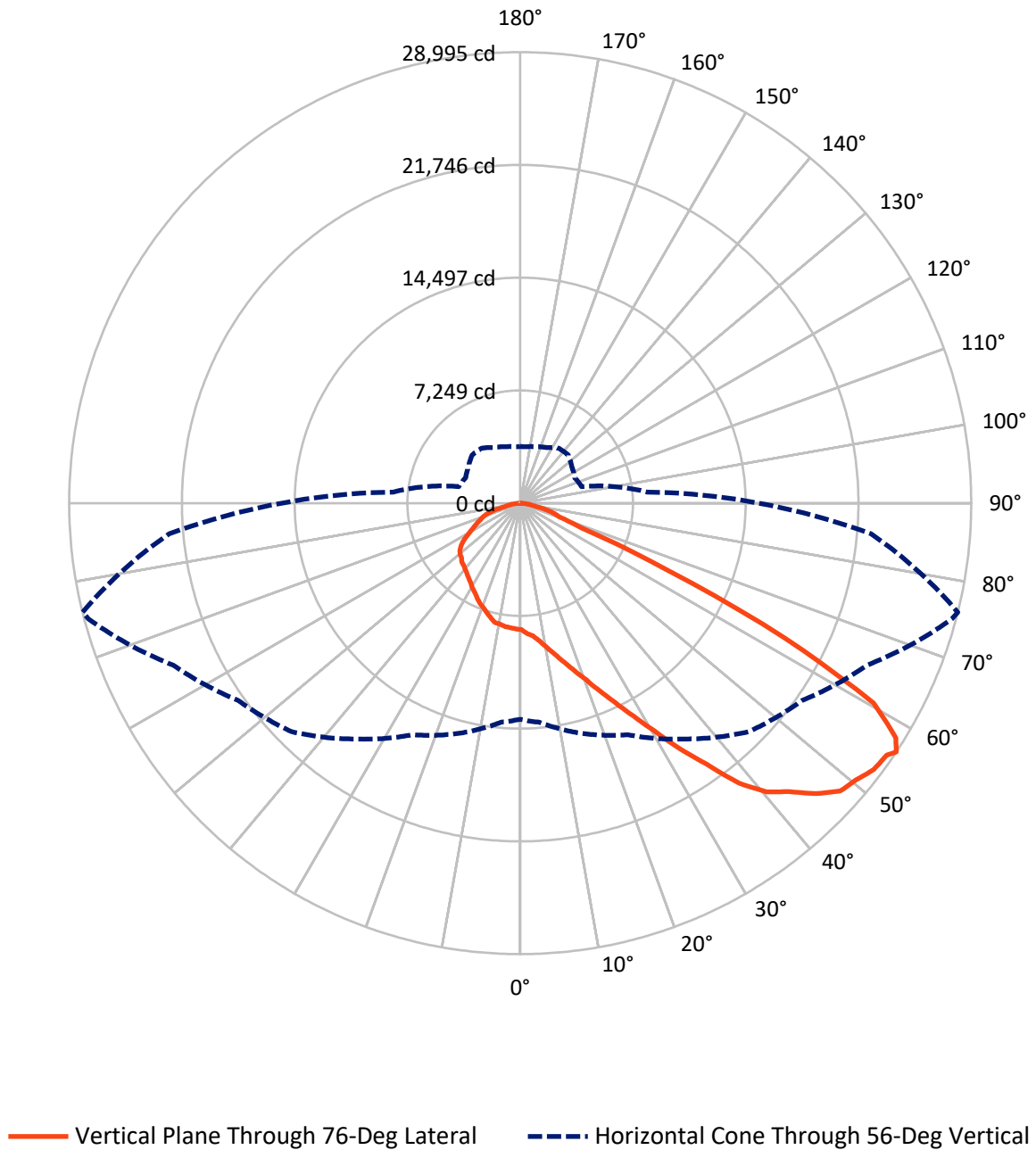
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.1 fc
 Type II - Short - N/A

REPORT NUMBER: P534194
CATALOG NUMBER: GALN-SA9C-830-U-T2-GRSWH

Luminous Intensity Polar Plot



REPORT NUMBER: P534194

CATALOG NUMBER: GALN-SA9C-830-U-T2-GRSWH

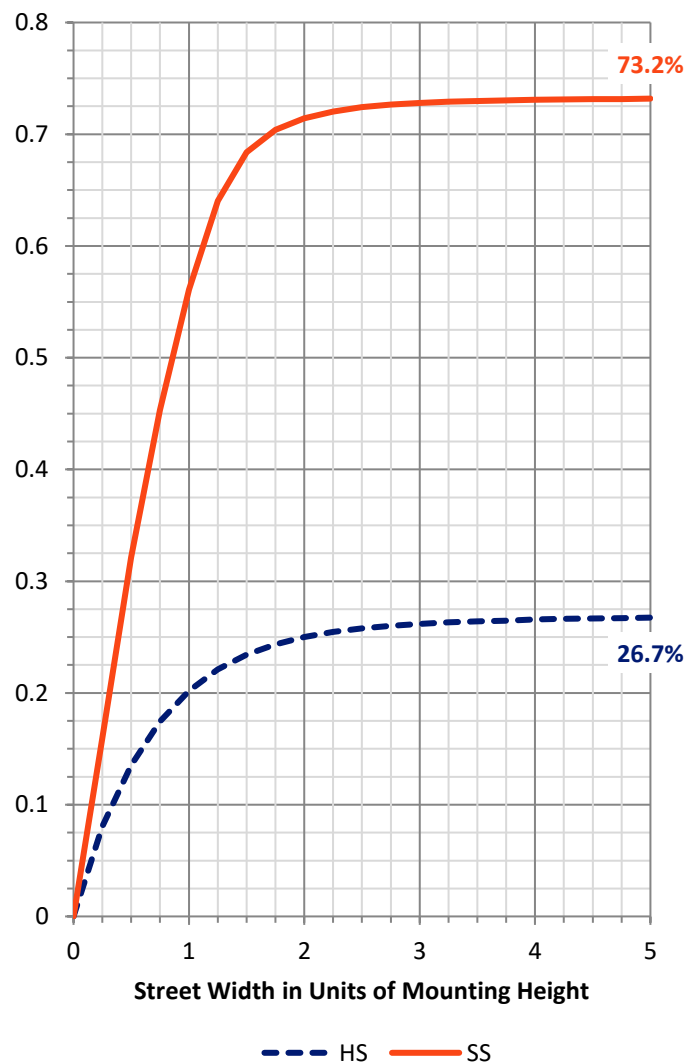
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11422.1	0.0	11422.1
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	31059.9	0.0	31059.9
	% Fixture	73.1	0.0	73.1
Total	Lumens	42482.0	0.0	42482.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	806.1	1.9
10°-20°	2532.2	6.0
20°-30°	4428.5	10.4
30°-40°	6933.7	16.3
40°-50°	10086.6	23.7
50°-60°	11085.7	26.1
60°-70°	4948.2	11.6
70°-80°	1429.2	3.4
80°-90°	231.8	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°	42482.0	100.0
0°-180°	42482.0	100.0

Coefficient of Utilization



REPORT NUMBER: P534194

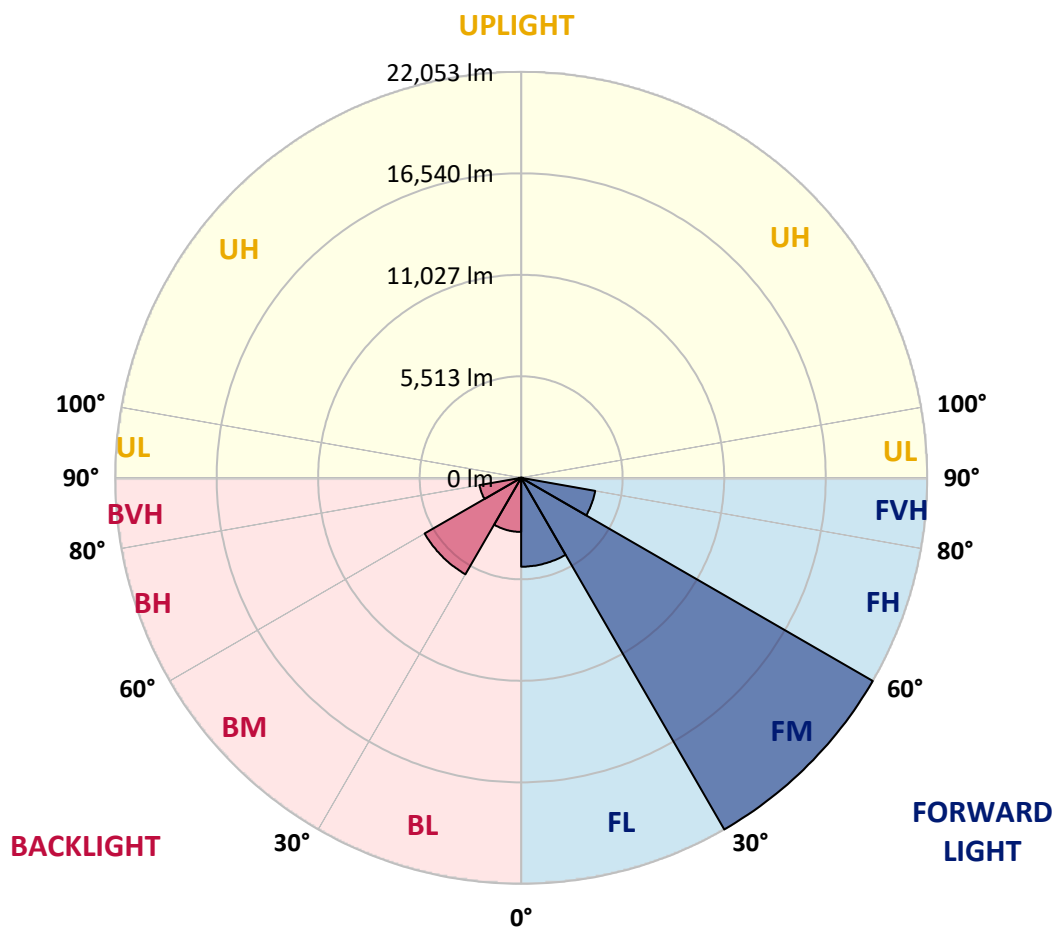
CATALOG NUMBER: GALN-SA9C-830-U-T2-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4827.6	11.4			
FM	(30°-60°)	22053.2	51.9			
FH	(60°-80°)	4079.3	9.6			G2/5000
FVH	(80°-90°)	99.8	0.2			G1/100
BL	(0°-30°)	2939.1	6.9	B4/5000		
BM	(30°-60°)	6052.8	14.2	B4/8500		
BH	(60°-80°)	2298.2	5.4	B3/2500		G3/2500
BVH	(80°-90°)	132.0	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: P534194

CATALOG NUMBER: GALN-SA9C-830-U-T2-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	8128.4	8128.4	8128.4	8128.4	8128.4	8128.4	8128.4	8128.4	8128.4	8128.4	8128.4
2.5°	8954.4	8811.3	8800.2	8761.7	8783.7	8684.6	8580.0	8442.3	8299.1	8387.2	8177.9
5°	9582.2	9389.5	9466.6	9334.4	9350.9	9218.8	9004.0	8844.3	8668.1	8563.4	8414.8
7.5°	9802.5	9819.0	9874.1	9852.1	9741.9	9741.9	9598.8	9317.9	9009.5	8948.9	8701.1
10°	10099.9	10105.4	10044.8	10061.4	10215.6	10144.0	10017.3	9896.1	9499.6	9428.0	8987.5
12.5°	10204.5	10105.4	10204.5	10292.7	10474.4	10573.5	10546.0	10457.9	10033.8	9984.3	9339.9
15°	10221.1	10160.5	10243.1	10441.3	10601.0	11019.6	11228.8	11168.3	10606.6	10612.1	9736.4
17.5°	10144.0	10226.6	10259.6	10430.3	10799.3	11190.3	11796.1	11878.7	11416.1	11344.5	10237.6
20°	10248.6	10188.0	10232.1	10386.3	10876.4	11487.7	12280.7	12825.9	12176.1	12126.5	10755.2
22.5°	10650.6	10568.0	10557.0	10656.1	11008.6	11641.9	12792.8	13773.1	13101.2	13128.8	11399.6
25°	10964.5	11008.6	10970.0	10964.5	11184.8	11873.2	13470.2	14902.0	14356.8	14197.1	12159.5
27.5°	11504.2	11608.8	11531.7	11636.4	11586.8	12220.1	13954.8	16152.1	15711.6	15496.8	12847.9
30°	12253.2	12308.2	12236.6	12236.6	12087.9	12704.7	14395.4	17457.3	17275.6	16983.7	13657.4
32.5°	13238.9	13321.5	13178.3	13095.7	13073.7	13426.2	15188.4	18746.0	19054.3	18806.5	14731.3
35°	14544.1	14494.5	14323.8	14246.7	13949.3	14533.1	16366.9	20227.3	21036.9	20596.3	16031.0
37.5°	15695.1	15618.0	15606.9	15177.4	15249.0	15728.1	17369.2	21350.8	22958.8	22832.2	17402.2
40°	16768.9	16840.5	16956.2	16713.9	16603.7	17132.4	18536.7	22209.9	24451.2	24401.7	18459.6
42.5°	17919.9	17853.8	18057.6	17853.8	17688.6	18437.6	19803.3	22804.6	25761.9	25354.4	19566.5
45°	19588.5	19379.3	19450.9	19467.4	19346.2	19621.6	20326.5	23234.2	26681.6	26637.5	20376.0
47.5°	20981.8	20987.3	20866.2	20772.5	20403.6	20678.9	20910.2	23504.0	27738.9	27667.3	20689.9
50°	21499.5	21427.9	21780.3	21984.1	22006.1	21444.4	21367.3	23652.7	28295.2	27981.3	21003.8
52.5°	19638.1	19704.2	20260.4	21471.9	22171.3	22231.9	21901.5	23961.1	28520.9	28454.9	21257.2
55°	15805.2	16124.6	17038.8	18437.6	20095.2	21918.0	22479.7	24280.5	28642.1	28587.0	22380.6
56°	13894.3	14142.1	15331.6	16427.5	18509.1	20778.0	22116.3	24622.0	28735.7	28994.5	22644.9
57.5°	11184.8	11471.2	12324.7	13569.3	16025.5	18608.3	21114.0	24203.4	28372.2	28471.4	22837.7
60°	6993.9	7021.5	8045.8	8866.3	10595.5	13117.8	16113.6	21058.9	26257.5	26114.4	20513.7
62.5°	4587.4	4592.9	5523.6	6195.4	6982.9	7561.2	9483.1	13965.8	19373.8	19120.4	14604.7
65°	3221.6	3293.2	4014.6	4912.3	5231.7	4928.8	4868.2	7362.9	10821.3	10457.9	7847.5
67.5°	2357.0	2362.5	3001.3	3965.1	4427.7	3750.3	3045.4	3596.1	4284.5	4273.5	3634.6
70°	1558.5	1624.6	2114.7	2962.8	3491.5	3012.3	2489.2	2571.8	2726.0	2726.0	2704.0
72.5°	908.7	969.2	1294.2	1877.9	1960.5	1883.4	1971.5	2202.8	2301.9	2296.4	2268.9
75°	517.7	545.2	616.8	782.0	974.7	1151.0	1448.4	1668.6	1767.8	1828.3	1756.7
77.5°	302.9	319.4	363.5	446.1	506.6	622.3	787.5	941.7	1073.9	1057.4	1068.4
80°	159.7	159.7	203.8	264.3	352.5	440.6	523.2	611.3	682.9	699.4	715.9
82.5°	93.6	99.1	132.2	192.7	253.3	313.9	402.0	462.6	528.7	534.2	545.2
85°	49.6	55.1	82.6	126.7	170.7	192.7	198.3	187.2	203.8	192.7	220.3
87.5°	16.5	16.5	27.5	22.0	22.0	27.5	33.0	33.0	44.1	44.1	44.1
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: P534194

CATALOG NUMBER: GALN-SA9C-830-U-T2-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8128.4	8128.4	8128.4	8128.4	8128.4	8128.4	8128.4	8128.4	8128.4	8128.4	8128.4
2.5°	8172.4	8172.4	8078.8	7902.6	7875.1	7803.5	7737.4	7731.9	7682.3	7638.3	7616.2
5°	8326.6	8155.9	8018.2	7858.5	7671.3	7583.2	7484.1	7373.9	7329.9	7373.9	7368.4
7.5°	8502.9	8359.7	7946.7	7649.3	7434.5	7346.4	7236.2	7120.6	7131.6	7131.6	7054.5
10°	8673.6	8480.8	7820.0	7440.0	7126.1	7060.0	6999.4	7043.5	7098.6	7109.6	7060.0
12.5°	8959.9	8524.9	7759.4	7230.7	7032.5	6889.3	6927.9	7049.0	7164.7	7131.6	7170.2
15°	9174.7	8563.4	7484.1	7016.0	6768.1	6834.2	6971.9	7054.5	7247.3	7225.2	7263.8
17.5°	9384.0	8585.5	7214.2	6729.6	6625.0	6806.7	6911.3	7148.1	7208.7	7340.9	7390.4
20°	9813.5	8629.5	6938.9	6553.4	6520.3	6729.6	6911.3	7021.5	7153.6	7269.3	7269.3
22.5°	10033.8	8607.5	6757.1	6322.1	6426.7	6558.9	6724.1	6911.3	6911.3	7021.5	7027.0
25°	10309.2	8519.4	6470.8	6211.9	6289.0	6415.7	6602.9	6536.9	6608.4	6608.4	6696.6
27.5°	10623.1	8332.1	6223.0	6013.7	6167.9	6305.6	6333.1	6289.0	6206.4	6195.4	6162.4
30°	10876.4	8100.9	6041.2	5947.6	6074.3	6151.4	6063.2	5969.6	5826.4	5815.4	5738.3
32.5°	11223.3	7814.5	5815.4	5782.4	5925.6	5931.1	5903.5	5760.4	5551.1	5463.0	5374.9
35°	11807.1	7649.3	5644.7	5694.3	5738.3	5721.8	5672.2	5518.1	5308.8	5270.2	5237.2
37.5°	12236.6	7528.1	5468.5	5529.1	5567.6	5589.6	5441.0	5270.2	5275.7	5198.6	5176.6
40°	12721.3	7451.0	5325.3	5352.8	5358.3	5429.9	5248.2	5165.6	5204.1	5154.6	5187.6
42.5°	13343.5	7473.0	5176.6	5154.6	5259.2	5231.7	5143.6	5033.4	5055.5	4906.8	4928.8
45°	13674.0	7621.7	5088.5	4989.4	5105.0	5099.5	4983.9	4879.2	4747.1	4460.7	4471.7
47.5°	13894.3	7660.3	4879.2	4813.1	4934.3	5005.9	4873.7	4631.4	4444.2	4240.4	4190.9
50°	14120.0	7731.9	4780.1	4642.4	4692.0	4862.7	4697.5	4466.2	4284.5	4102.7	4130.3
52.5°	14318.3	7869.6	4587.4	4383.6	4471.7	4659.0	4570.8	4290.0	4091.7	3943.0	3899.0
55°	15199.4	8177.9	4262.4	3998.1	4207.4	4444.2	4394.6	4053.2	3838.4	3761.3	3750.3
56°	15337.1	8189.0	4091.7	3865.9	4058.7	4372.6	4312.0	3948.5	3755.8	3634.6	3640.2
57.5°	15359.1	8056.8	3849.4	3744.8	3910.0	4268.0	4190.9	3865.9	3601.6	3491.5	3458.4
60°	13514.3	6289.0	3546.5	3480.4	3673.2	3948.5	3921.0	3640.2	3342.8	3216.1	3276.7
62.5°	9213.3	4609.4	3309.7	3298.7	3397.8	3667.7	3596.1	3342.8	3095.0	3012.3	2973.8
65°	5363.9	3497.0	3078.4	3034.4	3117.0	3260.2	3309.7	3045.4	2786.6	2731.5	2715.0
67.5°	3166.5	2891.2	2781.1	2709.5	2681.9	2770.0	2808.6	2654.4	2395.6	2318.5	2384.5
70°	2648.9	2571.8	2577.3	2456.1	2390.1	2329.5	2296.4	2158.8	1944.0	1844.9	1817.3
72.5°	2285.4	2252.4	2230.3	2120.2	2059.6	1922.0	1778.8	1641.1	1481.4	1398.8	1404.3
75°	1745.7	1734.7	1745.7	1690.7	1586.0	1475.9	1343.7	1167.5	1046.3	941.7	963.7
77.5°	1040.8	1073.9	1090.4	1068.4	1024.3	925.2	842.6	726.9	611.3	528.7	517.7
80°	715.9	743.4	771.0	743.4	699.4	627.8	539.7	451.6	369.0	324.9	313.9
82.5°	545.2	572.7	589.3	561.7	506.6	429.5	369.0	308.4	242.3	198.3	187.2
85°	198.3	225.8	220.3	264.3	286.4	275.4	236.8	181.7	137.7	99.1	93.6
87.5°	55.1	49.6	55.1	55.1	55.1	49.6	44.1	44.1	44.1	27.5	22.0
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)