

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: P457099

Luminaire Tested: **GALN-SA8B-830-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457099
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8B-830-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36446 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): 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

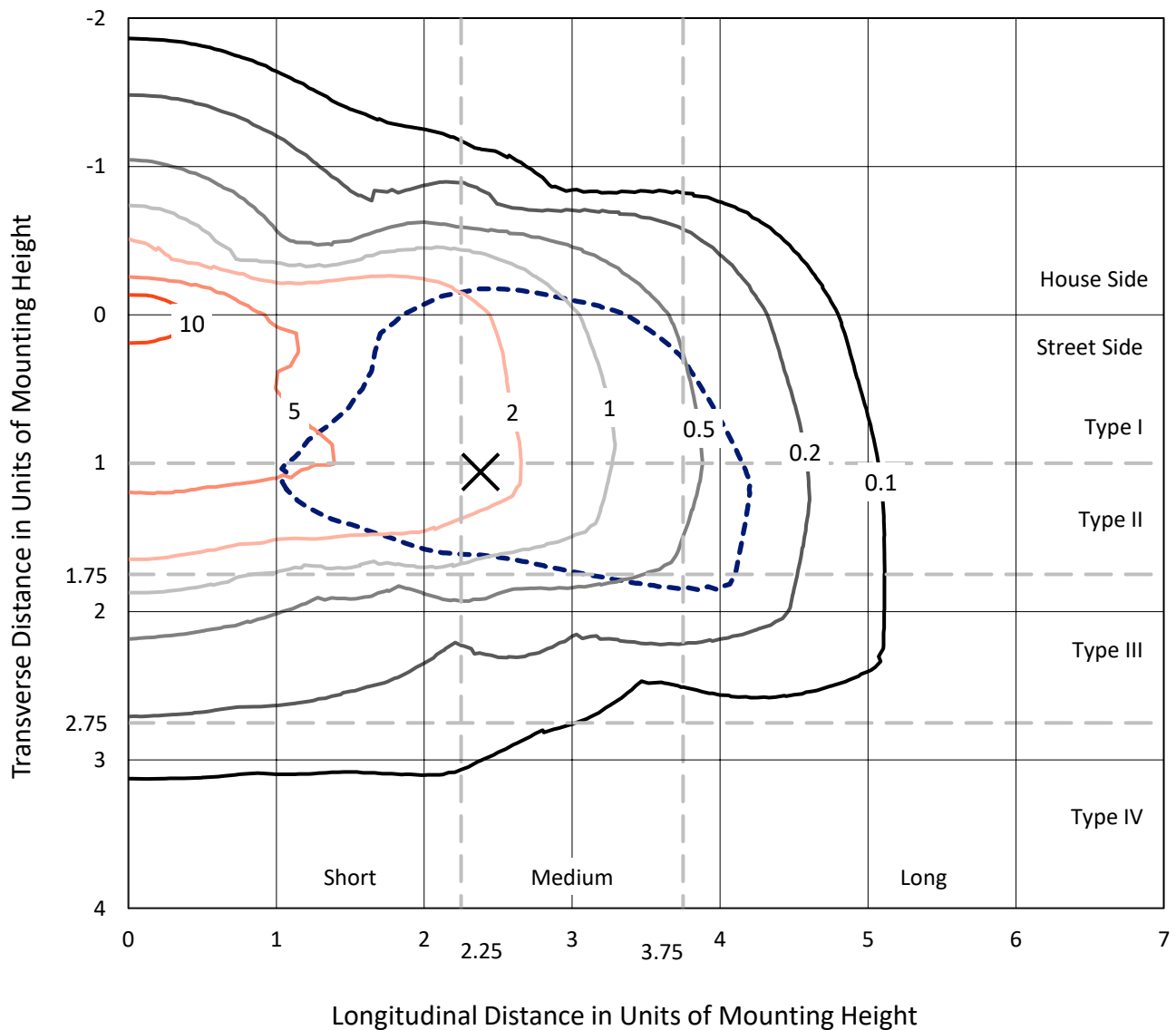


REPORT NUMBER: P457099

CATALOG NUMBER: GALN-SA8B-830-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

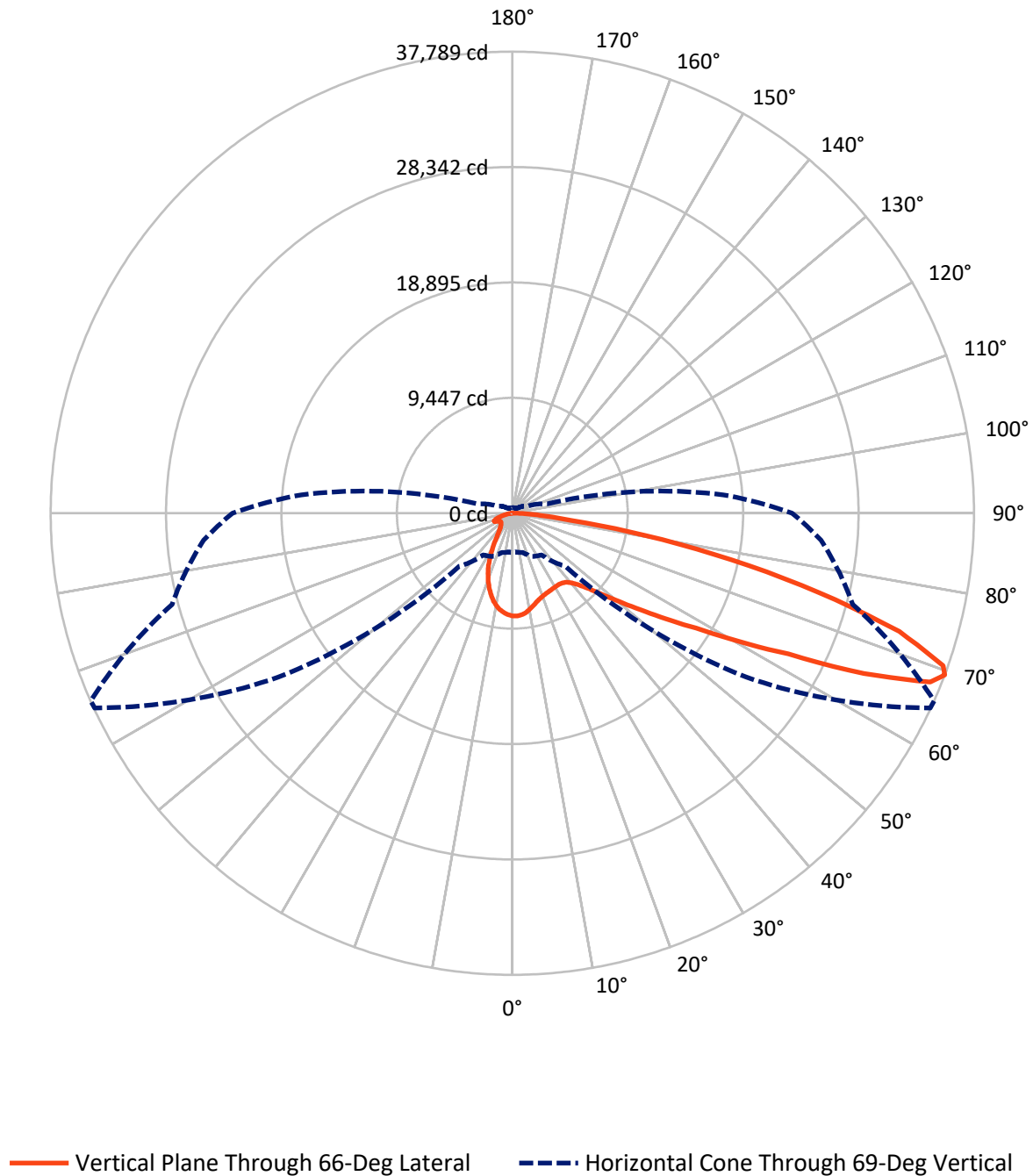


Based on 25 foot mounting height. Maximum calculated value = 13.5 fc
 Type III - Medium - N/A

REPORT NUMBER: P457099

CATALOG NUMBER: GALN-SA8B-830-U-SL2

Luminous Intensity Polar Plot



REPORT NUMBER: P457099

CATALOG NUMBER: GALN-SA8B-830-U-SL2

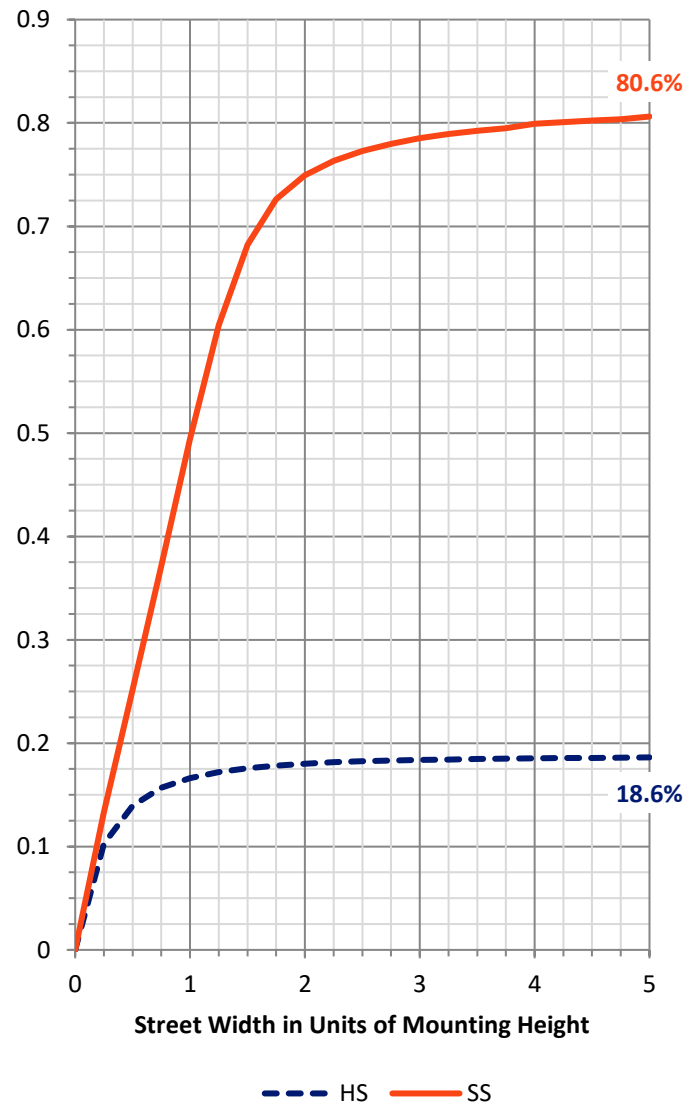
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6854.1	0.0	6854.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	29591.9	0.0	29591.9
	% Fixture	81.2	0.0	81.2
Total	Lumens	36446.0	0.0	36446.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	730.9	2.0
10°-20°	1733.6	4.8
20°-30°	2360.0	6.5
30°-40°	3171.4	8.7
40°-50°	4735.4	13.0
50°-60°	7532.4	20.7
60°-70°	9264.4	25.4
70°-80°	6027.9	16.5
80°-90°	890.1	2.4
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°	36446.0	100.0
0°-180°	36446.0	100.0

Coefficient of Utilization



REPORT NUMBER: P457099

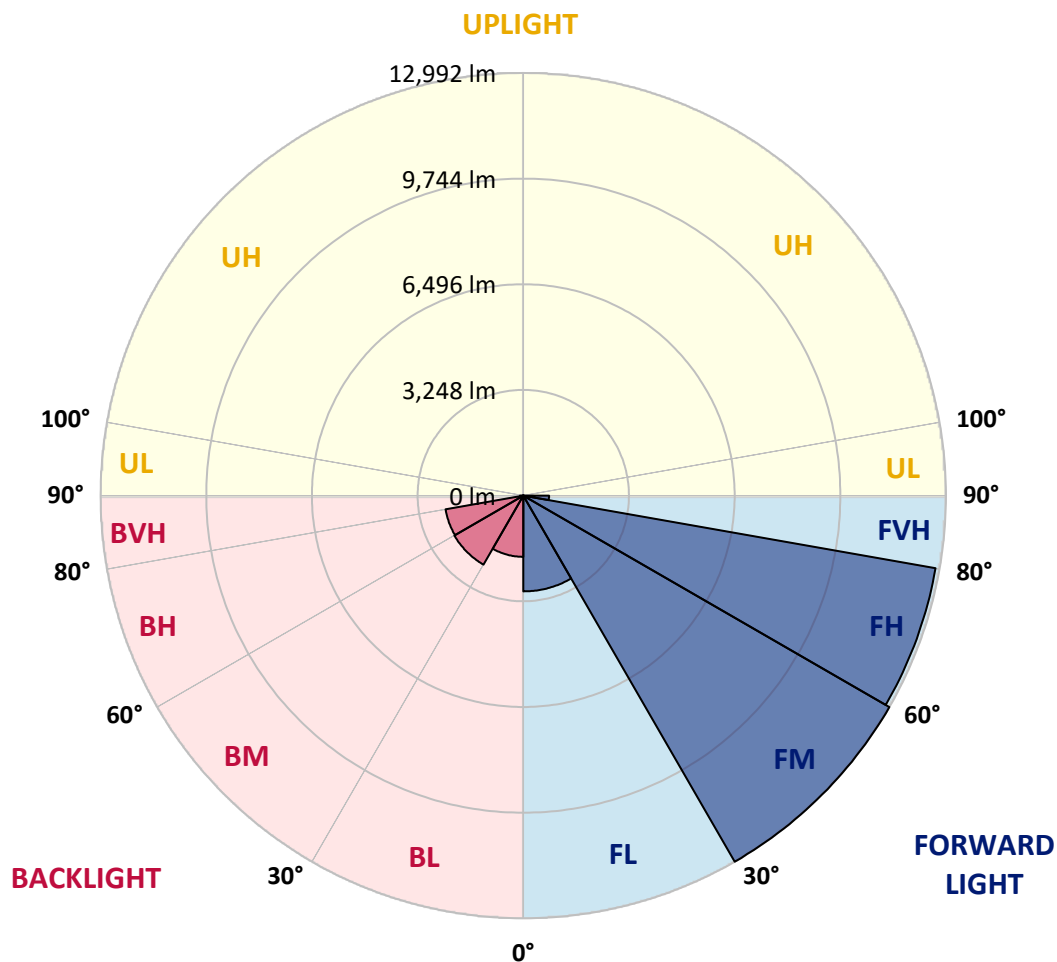
CATALOG NUMBER: GALN-SA8B-830-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2943.0	8.1			
FM	(30°-60°)	12991.9	35.6			
FH	(60°-80°)	12865.6	35.3			G5
FVH	(80°-90°)	791.4	2.2			G5
BL	(0°-30°)	1881.5	5.2	B3/2500		
BM	(30°-60°)	2447.2	6.7	B2/2500		
BH	(60°-80°)	2426.7	6.7	B3/2500		G3/2500
BVH	(80°-90°)	98.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





REPORT NUMBER: P457099

CATALOG NUMBER: GALN-SA8B-830-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	8416.4	8416.4	8416.4	8416.4	8416.4	8416.4	8416.4	8416.4	8416.4	8416.4	8416.4
2.5°	8121.7	8154.0	8190.3	8230.7	8307.4	8349.8	8380.1	8414.4	8418.4	8436.6	8422.4
5°	7522.3	7560.6	7615.1	7691.8	7806.9	7986.5	8172.2	8323.6	8341.7	8426.5	8450.7
7.5°	7021.7	7043.9	7088.3	7211.5	7374.9	7574.8	7845.2	8152.0	8196.4	8398.2	8468.9
10°	6614.0	6636.2	6688.7	6815.9	6977.3	7227.6	7524.3	7928.0	7964.3	8311.4	8472.9
12.5°	6309.3	6329.5	6386.0	6511.1	6696.8	6930.9	7257.9	7685.8	7738.2	8196.4	8434.6
15°	6077.2	6115.5	6161.9	6264.9	6460.6	6686.7	7003.6	7463.7	7506.1	8075.3	8408.3
17.5°	5978.3	5996.4	6028.7	6123.6	6266.9	6488.9	6807.8	7290.2	7340.6	7990.5	8402.3
20°	5982.3	6000.5	6006.5	6059.0	6161.9	6353.7	6668.5	7152.9	7213.5	7915.9	8412.4
22.5°	6119.5	6121.6	6099.4	6081.2	6121.6	6281.0	6569.6	7050.0	7120.6	7883.6	8420.4
25°	6331.5	6367.8	6335.5	6250.7	6176.1	6252.8	6531.3	6993.5	7060.1	7837.1	8410.3
27.5°	6674.6	6680.6	6654.4	6539.4	6345.6	6289.1	6515.1	6951.1	7007.6	7802.8	8359.9
30°	7134.8	7116.6	7092.4	6965.2	6660.5	6428.3	6549.4	6912.7	6971.3	7752.4	8299.3
32.5°	7601.0	7657.5	7635.3	7485.9	7090.4	6698.8	6660.5	6908.7	6957.1	7714.0	8232.7
35°	8095.5	8121.7	8226.7	8150.0	7744.3	7136.8	6868.3	6971.3	7009.6	7716.0	8186.3
37.5°	8483.0	8553.6	8799.9	8866.5	8485.0	7716.0	7205.4	7148.9	7165.0	7814.9	8204.5
40°	8951.2	9072.3	9389.2	9661.7	9411.4	8468.9	7778.6	7477.9	7498.1	8053.1	8323.6
42.5°	9544.6	9629.4	10055.3	10424.6	10384.3	9463.9	8472.9	8016.8	8026.9	8527.4	8656.6
45°	10238.9	10360.0	10838.4	11393.4	11488.3	10590.1	9476.0	8832.2	8826.1	9264.1	9278.2
47.5°	11127.0	11201.7	11676.0	12281.5	12665.0	12005.0	10693.1	10002.8	9938.2	10337.8	10222.8
50°	11944.4	12061.5	12420.7	13082.7	14037.4	13662.0	12293.6	11520.6	11369.2	11742.6	11548.8
52.5°	12287.5	12410.6	12713.4	13534.9	15214.1	15805.5	14326.0	13331.0	13078.7	13365.3	13294.7
55°	11692.1	11851.6	12134.1	13133.2	15730.8	18277.9	17066.9	15424.0	15240.3	15117.2	15137.4
57.5°	10091.6	10243.0	10624.4	11726.4	15113.2	20072.2	20980.4	18114.4	17720.8	17153.7	17250.6
60°	7681.7	7776.6	7974.4	9195.5	13282.6	20538.4	25424.8	21515.3	21265.0	19182.1	19250.7
62.5°	5455.5	5562.5	5699.7	6309.3	9724.3	19224.5	28904.4	26264.4	25370.3	21283.2	21216.6
65°	4430.2	4357.6	4523.1	4807.6	5705.8	14899.2	29687.5	32856.2	31625.1	24050.3	23125.9
67.5°	3643.1	3566.4	3729.9	4236.5	4339.4	8648.5	26865.9	37135.1	36888.8	27059.6	25065.5
69°	3225.3	3184.9	3328.2	3905.4	4165.8	6141.7	23404.4	37730.5	37789.0	28833.7	25364.2
70°	2906.4	2922.5	3061.8	3737.9	4087.1	5064.0	20003.6	36909.0	37405.5	29719.8	25041.3
72.5°	2139.4	2173.7	2367.5	3096.1	4012.4	4297.0	11904.1	32238.6	33116.6	29772.2	22907.9
75°	1495.6	1479.4	1651.0	2331.2	3790.4	4258.7	6991.5	24932.3	25927.3	25733.6	19248.7
77.5°	978.9	1005.1	1142.4	1646.9	3188.9	4226.4	4557.4	17688.6	18334.4	17210.2	11385.3
80°	690.3	688.2	764.9	1124.2	2365.5	4060.9	3731.9	11149.2	10985.7	6763.4	3376.6
82.5°	395.6	423.8	512.7	791.2	1582.4	3574.4	3433.2	5332.4	4868.2	1927.5	1140.4
85°	220.0	230.1	304.8	478.3	924.4	2692.4	2997.2	2426.0	2288.8	805.3	490.5
87.5°	70.6	76.7	127.2	242.2	419.8	1271.5	1697.4	1120.2	1033.4	290.6	197.8
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: P457099

CATALOG NUMBER: GALN-SA8B-830-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8416.4	8416.4	8416.4	8416.4	8416.4	8416.4	8416.4	8416.4	8416.4	8416.4	8416.4
2.5°	8428.5	8452.7	8388.1	8325.6	8269.1	8190.3	8119.7	8061.2	8020.8	8014.7	7994.6
5°	8456.8	8458.8	8335.7	8170.2	8008.7	7831.1	7647.4	7516.2	7393.1	7324.5	7290.2
7.5°	8476.9	8458.8	8236.8	7968.3	7657.5	7334.6	7011.6	6753.3	6553.5	6474.8	6505.0
10°	8468.9	8412.4	8087.4	7657.5	7205.4	6723.0	6258.8	5895.5	5562.5	5390.9	5395.0
12.5°	8424.5	8331.6	7865.4	7308.3	6644.3	5998.4	5288.0	4797.5	4412.0	4184.0	4113.3
15°	8386.1	8224.7	7605.0	6834.0	6008.5	5086.2	4220.3	3614.8	3291.9	3112.2	3110.2
17.5°	8345.8	8121.7	7320.4	6331.5	5277.9	4091.1	3182.9	2720.7	2569.3	2587.5	2557.2
20°	8303.4	8000.6	7023.8	5772.4	4387.8	3051.7	2383.6	2195.9	2238.3	2321.1	2333.2
22.5°	8254.9	7871.4	6704.9	5156.8	3451.3	2296.8	1933.6	1905.3	2014.3	2143.5	2161.6
25°	8180.3	7710.0	6303.2	4513.0	2662.2	1850.8	1693.4	1713.6	1820.5	1929.5	1941.6
27.5°	8075.3	7510.2	5897.5	3709.7	2000.2	1588.4	1548.1	1574.3	1626.8	1693.4	1709.5
30°	7934.0	7284.1	5431.3	3015.4	1602.5	1457.2	1441.1	1455.2	1485.5	1513.7	1521.8
32.5°	7792.7	7066.1	4961.0	2309.0	1429.0	1370.4	1354.3	1354.3	1354.3	1358.3	1360.3
35°	7661.5	6860.3	4456.5	1798.3	1338.1	1301.8	1279.6	1255.4	1251.4	1237.2	1237.2
37.5°	7588.9	6672.6	3919.6	1505.7	1271.5	1245.3	1215.0	1174.7	1152.5	1154.5	1150.4
40°	7603.0	6549.4	3431.1	1340.2	1217.0	1188.8	1142.4	1095.9	1081.8	1081.8	1077.8
42.5°	7762.5	6509.1	2962.9	1253.4	1164.6	1132.3	1073.7	1031.4	1023.3	1021.3	1025.3
45°	8129.8	6608.0	2543.1	1196.9	1120.2	1071.7	1013.2	974.8	966.8	966.8	964.8
47.5°	8846.3	6928.9	2242.4	1160.5	1087.9	1025.3	964.8	926.4	912.3	908.2	908.2
50°	9960.4	7625.2	2018.3	1128.2	1047.5	982.9	920.4	876.0	853.7	851.7	849.7
52.5°	11508.5	8711.1	1931.5	1104.0	1003.1	938.5	869.9	827.5	799.3	793.2	789.2
55°	13318.9	10226.8	2050.6	1085.9	956.7	888.1	817.4	773.0	746.8	734.7	732.7
57.5°	15415.9	12047.4	2502.7	1061.6	914.3	833.6	764.9	720.5	692.3	678.2	674.1
60°	17299.0	13918.3	3291.9	1047.5	878.0	775.0	704.4	664.0	637.8	623.7	621.6
62.5°	19367.8	15702.5	4234.4	1085.9	861.8	718.5	647.9	611.6	589.3	575.2	575.2
65°	21577.9	17488.7	4858.1	1215.0	886.0	674.1	587.3	557.1	536.9	526.8	524.8
67.5°	23067.4	18106.3	4002.3	1348.2	946.6	625.7	528.8	504.6	492.5	482.4	482.4
69°	22905.9	17325.3	2952.8	1382.5	964.8	601.5	496.5	478.3	462.2	458.2	454.1
70°	22395.3	16435.2	2474.5	1360.3	950.6	579.3	476.3	454.1	440.0	436.0	433.9
72.5°	19947.1	14253.4	1842.7	1182.7	809.3	502.6	421.8	401.6	389.5	383.5	383.5
75°	16572.4	11649.7	1439.1	940.5	633.8	423.8	361.3	345.1	335.0	331.0	329.0
77.5°	9288.3	6505.0	1033.4	736.7	480.4	343.1	302.7	288.6	278.5	274.5	274.5
80°	2587.5	1858.9	607.5	486.4	327.0	260.4	240.2	230.1	216.0	205.9	211.9
82.5°	974.8	805.3	347.2	292.7	207.9	173.6	167.5	159.4	153.4	139.3	139.3
85°	474.3	391.6	222.0	155.4	115.0	90.8	86.8	82.8	78.7	68.6	70.6
87.5°	163.5	173.6	96.9	56.5	34.3	22.2	18.2	10.1	10.1	10.1	10.1
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)