

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: P457565

Luminaire Tested: **GALN-SA8D-830-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457565
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8D-830-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49201 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 493
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

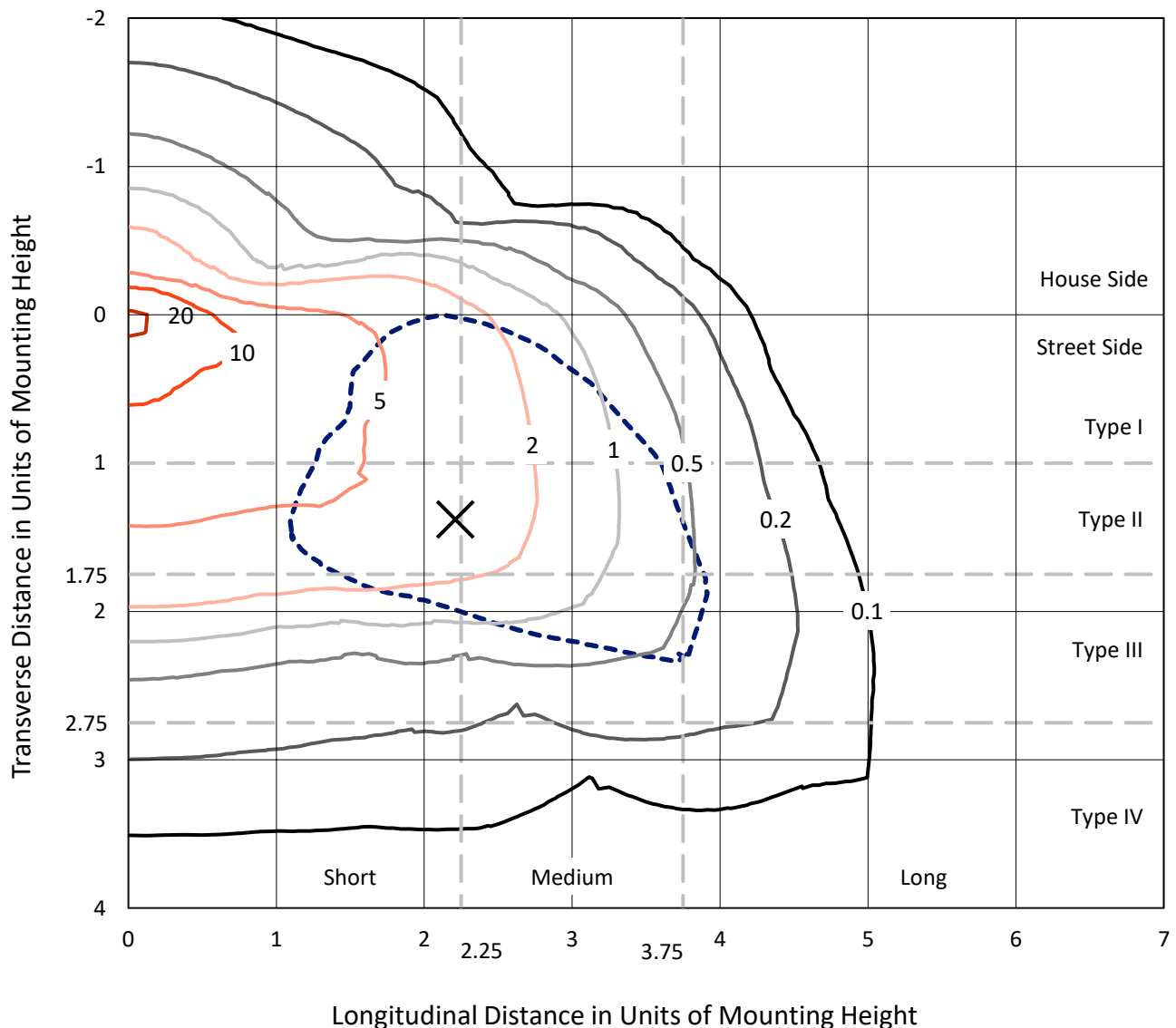


REPORT NUMBER: P457565

CATALOG NUMBER: GALN-SA8D-830-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

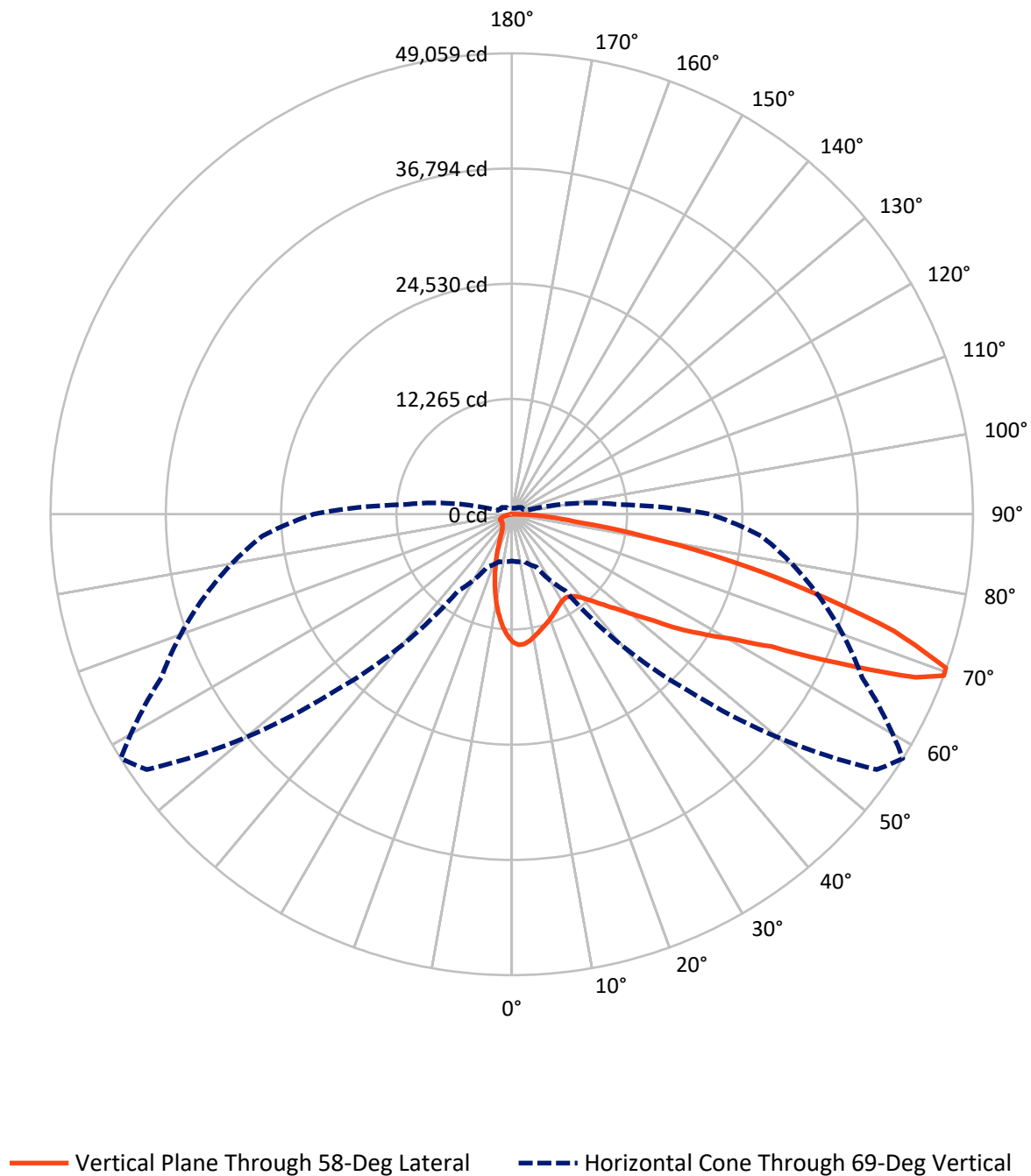


Based on 25 foot mounting height. Maximum calculated value = 21.8 fc
 Type III - Short - N/A

REPORT NUMBER: P457565

CATALOG NUMBER: GALN-SA8D-830-U-SL3

Luminous Intensity Polar Plot



REPORT NUMBER: P457565

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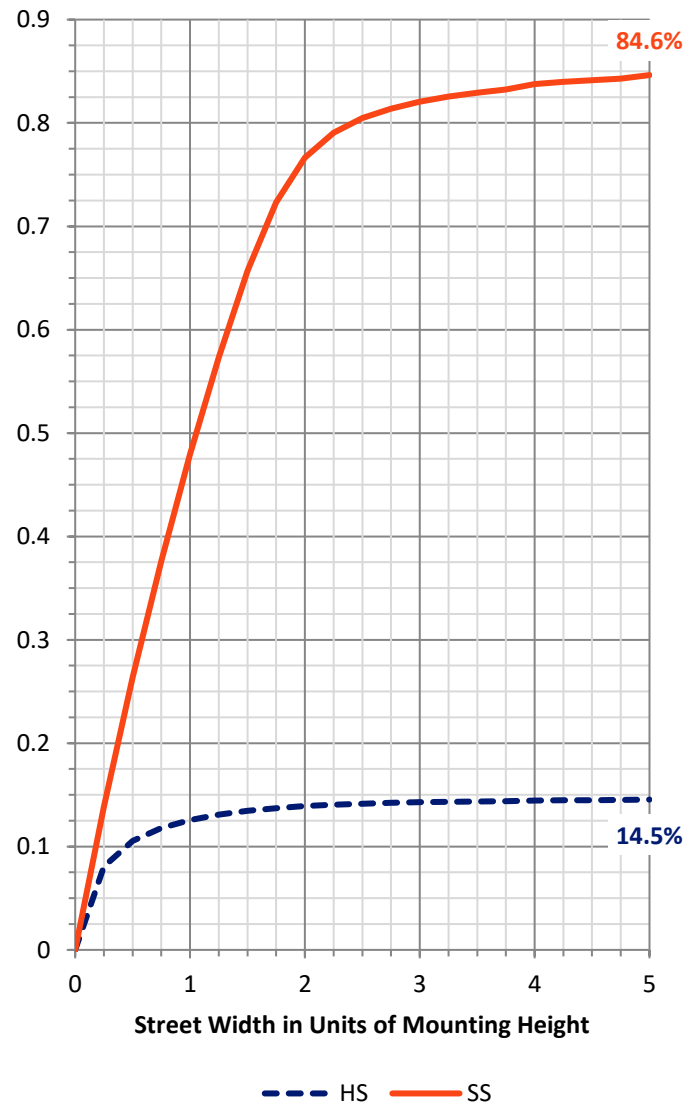
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7210.4	0.0	7210.4
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	41990.6	0.0	41990.6
	% Fixture	85.3	0.0	85.3
Total	Lumens	49201.0	0.0	49201.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1154.6	2.3
10°-20°	2535.4	5.2
20°-30°	3275.8	6.7
30°-40°	4254.6	8.6
40°-50°	6185.6	12.6
50°-60°	9870.2	20.1
60°-70°	13185.4	26.8
70°-80°	7600.8	15.4
80°-90°	1138.4	2.3
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°	49201.0	100.0
0°-180°	49201.0	100.0

Coefficient of Utilization



REPORT NUMBER: P457565

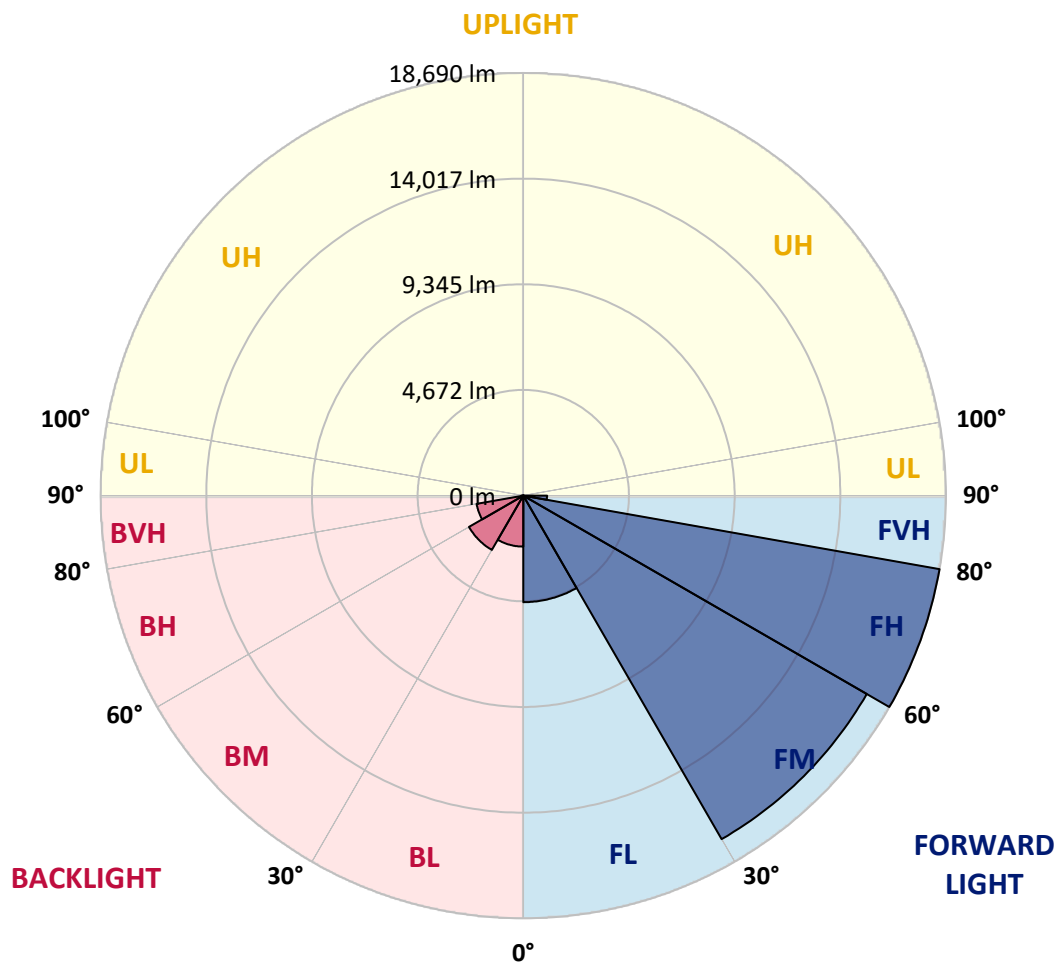
CATALOG NUMBER: GALN-SA8D-830-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4712.2	9.6			
FM	(30°-60°)	17537.6	35.6			
FH	(60°-80°)	18689.6	38.0			G5
FVH	(80°-90°)	1051.2	2.1			G5
BL	(0°-30°)	2253.7	4.6	B3/2500		
BM	(30°-60°)	2772.9	5.6	B3/5000		
BH	(60°-80°)	2096.6	4.3	B3/2500		G3/2500
BVH	(80°-90°)	87.2	0.2			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 Short





REPORT NUMBER: P457565

CATALOG NUMBER: GALN-SA8D-830-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	13596.3	13596.3	13596.3	13596.3	13596.3	13596.3	13596.3	13596.3	13596.3	13596.3	13596.3
2.5°	14101.2	14139.6	14128.6	14114.9	14092.9	14032.6	13933.8	13917.3	13854.2	13719.8	13552.4
5°	13884.4	13917.3	13920.1	13939.3	13966.7	13955.7	13884.4	13876.2	13782.9	13601.8	13321.9
7.5°	13140.8	13184.7	13280.7	13387.7	13483.8	13574.3	13596.3	13610.0	13552.4	13343.8	12970.7
10°	12303.9	12347.8	12391.7	12550.8	12786.8	13011.8	13198.4	13223.1	13236.8	13044.7	12589.2
12.5°	11376.4	11467.0	11560.3	11796.2	12111.8	12465.8	12795.0	12847.2	12940.5	12795.0	12260.0
15°	10588.9	10682.2	10816.7	11027.9	11409.3	11919.7	12383.4	12468.5	12652.4	12578.3	11952.6
17.5°	10042.9	10075.8	10169.1	10410.5	10822.1	11360.0	11980.1	12150.2	12443.8	12424.6	11689.2
20°	9612.1	9653.2	9710.8	9859.0	10287.1	10855.1	11604.2	11823.7	12221.6	12287.4	11428.6
22.5°	9431.0	9461.1	9452.9	9532.5	9823.3	10394.1	11222.8	11483.4	12024.0	12194.1	11187.1
25°	9441.9	9469.4	9428.2	9409.0	9581.9	9988.0	10824.9	11156.9	11864.8	12131.0	10967.6
27.5°	9625.8	9645.0	9568.2	9491.3	9505.0	9735.5	10495.6	10863.3	11730.4	12158.4	10783.7
30°	9872.7	9908.4	9859.0	9765.7	9664.2	9675.2	10284.3	10646.5	11667.3	12254.5	10695.9
32.5°	10191.0	10224.0	10202.0	10127.9	9996.2	9850.8	10232.2	10567.0	11672.8	12449.3	10676.7
35°	10525.8	10591.6	10627.3	10621.8	10514.8	10262.4	10438.0	10715.1	11804.5	12775.8	10789.2
37.5°	10904.5	10959.3	11113.0	11211.8	11113.0	10819.4	10901.7	11093.8	12095.3	13247.8	11036.2
40°	11272.1	11354.5	11579.5	11886.8	11848.4	11590.4	11609.7	11735.9	12608.5	13950.2	11519.1
42.5°	11656.3	11755.1	12147.5	12603.0	12693.5	12493.2	12545.3	12657.8	13338.3	14924.3	12347.8
45°	12150.2	12268.2	12751.1	13319.1	13675.9	13552.4	13700.5	13755.4	14315.2	16192.1	13439.9
47.5°	12786.8	12924.0	13519.4	14227.4	14732.3	14844.8	15102.7	15069.8	15525.3	17693.0	14855.7
50°	13859.7	13936.5	14499.0	15220.7	15914.9	16422.5	16702.4	16754.6	17026.2	19152.8	16439.0
52.5°	15135.6	15204.2	15610.3	16241.4	17111.3	18186.9	18878.4	18708.3	18774.1	20930.9	18291.2
55°	16570.7	16686.0	16943.9	17363.7	18491.5	20074.7	21463.2	21504.3	20774.5	22632.1	20066.5
57.5°	17682.0	17876.8	18318.6	18916.8	20346.4	22173.9	24039.8	24067.2	23134.2	24448.6	22025.7
60°	17122.3	17352.7	18362.5	19819.6	22780.3	25837.0	27118.5	26962.1	25430.9	26517.5	24415.7
62.5°	14707.6	14748.7	16216.7	18494.2	23529.4	30737.7	31700.9	31039.6	28495.9	29140.8	26844.1
65°	9518.8	9787.7	10951.1	14142.3	21068.1	33457.0	39729.7	38201.3	32793.0	32117.9	28877.3
67.5°	6009.3	5940.7	6423.6	8075.4	14490.8	31061.5	46581.3	46339.8	38412.6	33997.5	28391.7
69°	4983.0	5059.8	5224.5	6190.4	9971.5	26520.3	47390.8	49059.1	41137.3	33849.4	26627.3
70°	4519.3	4555.0	4727.8	5487.9	7694.0	22212.3	46062.7	48985.0	42207.5	33229.2	25348.6
72.5°	3586.3	3583.6	3879.9	4565.9	5751.3	12679.8	37822.6	42528.5	41011.1	30342.6	20944.6
75°	2724.7	2768.6	3095.2	3863.5	5298.6	6928.5	26394.1	32751.8	32754.5	23965.7	13069.4
77.5°	1964.7	1992.1	2373.5	3243.3	4991.2	5616.9	17580.5	23491.0	22083.3	10981.3	4107.7
80°	1286.9	1303.4	1594.2	2568.3	4500.1	5298.6	10424.3	14378.3	10416.0	2914.1	1358.3
82.5°	705.2	787.5	974.1	1662.8	3611.0	4895.2	6335.8	7277.0	3907.4	1297.9	707.9
85°	354.0	375.9	548.8	971.4	2359.8	4050.1	4412.3	4173.5	2016.8	644.8	367.7
87.5°	104.3	131.7	227.7	375.9	957.6	2110.1	2455.8	2203.4	776.5	233.2	76.8
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: P457565

CATALOG NUMBER: GALN-SA8D-830-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13596.3	13596.3	13596.3	13596.3	13596.3	13596.3	13596.3	13596.3	13596.3	13596.3	13596.3
2.5°	13483.8	13434.4	13214.9	13017.3	12836.2	12644.1	12482.2	12339.5	12353.3	12356.0	12210.6
5°	13176.5	13063.9	12646.9	12257.2	11928.0	11510.9	11154.2	10923.7	10808.4	10654.8	10709.6
7.5°	12759.4	12542.6	11963.6	11316.1	10709.6	10169.1	9581.9	9178.5	8920.6	8670.9	8703.8
10°	12328.6	11980.1	11137.7	10281.6	9496.8	8632.5	7883.4	7241.3	6763.8	6585.5	6467.5
12.5°	11886.8	11428.6	10358.4	9219.7	8135.8	7101.3	6039.4	5350.7	4823.9	4544.0	4579.7
15°	11483.4	10926.4	9546.2	8157.8	6750.1	5518.1	4458.9	3803.1	3435.4	3358.6	3402.5
17.5°	11110.3	10380.4	8786.1	7126.0	5482.4	4137.9	3350.4	2979.9	2831.8	2790.6	2787.9
20°	10726.1	9916.6	7932.8	6023.0	4272.3	3207.7	2749.4	2576.6	2549.1	2565.6	2568.3
22.5°	10336.5	9343.2	7054.7	4928.1	3402.5	2623.2	2403.7	2357.1	2379.0	2417.4	2422.9
25°	9977.0	8838.3	6209.6	3967.8	2716.5	2304.9	2197.9	2197.9	2247.3	2304.9	2307.7
27.5°	9680.7	8349.8	5367.2	3150.1	2274.7	2074.4	2038.8	2058.0	2126.6	2170.5	2173.2
30°	9436.4	7894.3	4571.4	2524.4	2000.3	1890.6	1882.4	1915.3	1964.7	2005.8	2008.6
32.5°	9252.6	7493.7	3827.8	2121.1	1811.0	1750.6	1747.9	1772.6	1800.0	1811.0	1822.0
35°	9181.3	7161.7	3147.3	1865.9	1684.8	1646.4	1646.4	1643.6	1654.6	1660.1	1665.6
37.5°	9238.9	6906.5	2620.5	1701.2	1591.5	1564.1	1547.6	1531.1	1525.6	1525.6	1528.4
40°	9483.1	6772.1	2228.1	1594.2	1525.6	1484.5	1454.3	1435.1	1415.9	1421.4	1426.9
42.5°	10001.7	6796.8	1961.9	1522.9	1468.0	1410.4	1366.5	1344.5	1330.8	1347.3	1344.5
45°	10827.6	7043.7	1791.8	1473.5	1410.4	1336.3	1295.1	1273.2	1273.2	1297.9	1306.1
47.5°	11982.8	7515.7	1701.2	1435.1	1366.5	1278.7	1237.5	1221.1	1226.5	1267.7	1270.4
50°	13393.2	8336.1	1684.8	1415.9	1344.5	1237.5	1190.9	1174.4	1188.1	1232.0	1237.5
52.5°	14949.0	9392.5	1764.4	1418.6	1325.3	1212.8	1152.5	1127.8	1141.5	1177.2	1188.1
55°	16793.0	10715.1	1970.2	1429.6	1297.9	1199.1	1125.0	1070.1	1086.6	1111.3	1114.0
57.5°	18675.3	12383.4	2332.4	1432.3	1275.9	1174.4	1078.4	1007.0	1007.0	1023.5	1031.7
60°	20974.8	14199.9	2809.8	1435.1	1278.7	1138.7	1015.3	935.7	924.7	932.9	935.7
62.5°	23257.7	15720.1	2889.4	1426.9	1306.1	1103.1	946.7	864.3	845.1	842.4	836.9
65°	24264.8	15437.5	2368.0	1388.4	1336.3	1081.1	891.8	795.7	762.8	751.8	751.8
67.5°	22623.9	13058.5	1780.8	1336.3	1317.1	1059.2	839.6	738.1	699.7	677.8	677.8
69°	21081.8	11615.1	1599.7	1300.6	1267.7	1023.5	806.7	707.9	661.3	636.6	628.4
70°	19890.9	10621.8	1522.9	1270.4	1221.1	982.3	782.0	686.0	633.9	606.4	600.9
72.5°	15873.8	8333.4	1333.6	1155.2	1040.0	825.9	694.2	617.4	568.0	537.8	529.6
75°	9148.3	4516.5	1105.8	1004.3	836.9	642.1	587.2	537.8	499.4	472.0	463.7
77.5°	2815.3	1745.2	801.2	793.0	614.6	496.7	469.2	450.0	422.6	392.4	386.9
80°	1185.4	889.0	543.3	535.1	408.8	345.7	337.5	334.8	323.8	299.1	290.9
82.5°	650.3	502.1	378.7	329.3	247.0	200.3	208.5	211.3	203.1	178.4	161.9
85°	318.3	274.4	183.8	148.2	112.5	71.3	68.6	82.3	76.8	54.9	60.4
87.5°	63.1	76.8	49.4	22.0	11.0	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)