

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: P454547

Luminaire Tested: **GALN-SA5C-830-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454547
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-SA5C-830-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA 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: 27927 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 269
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

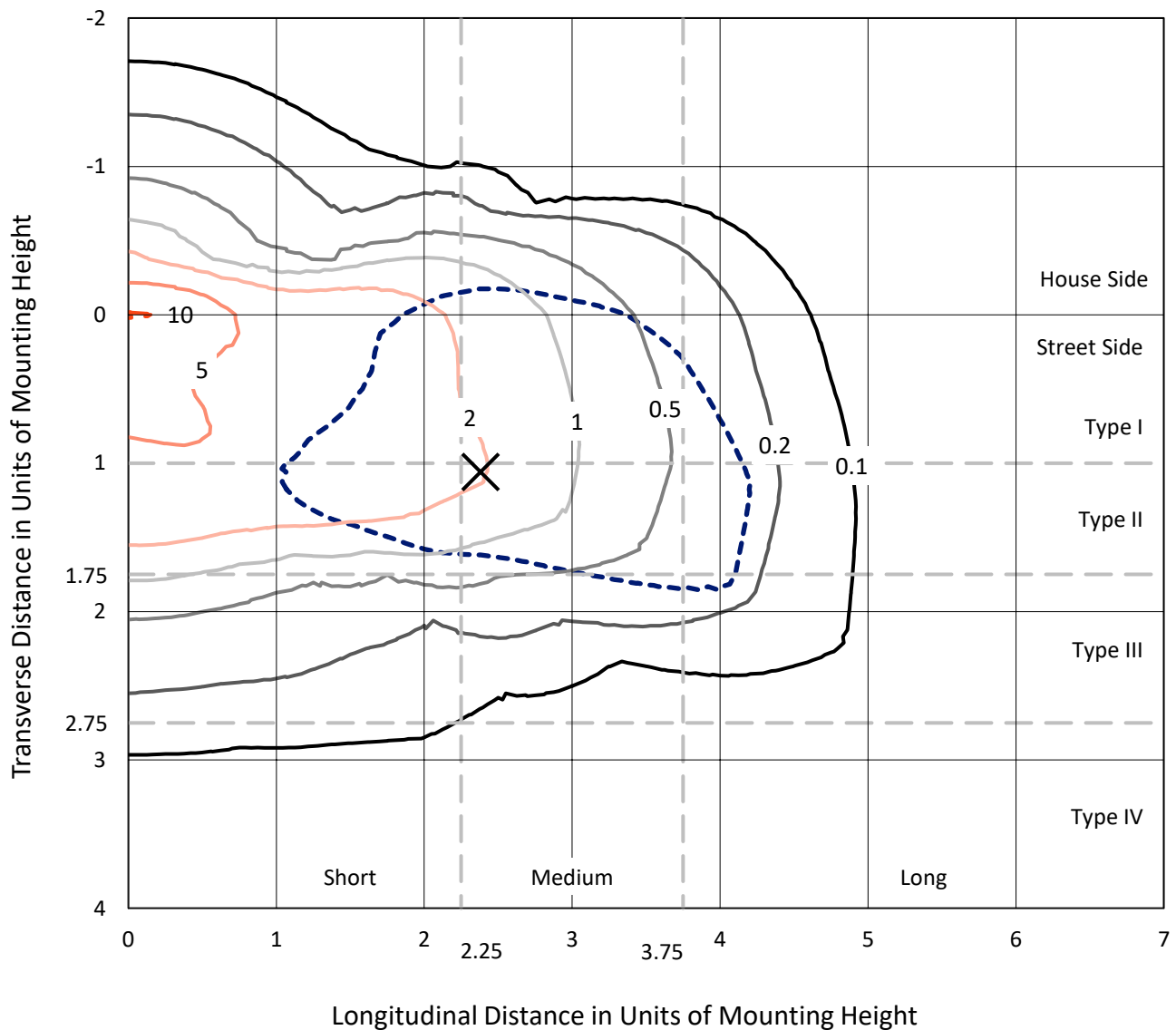


REPORT NUMBER: P454547

CATALOG NUMBER: GALN-SA5C-830-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

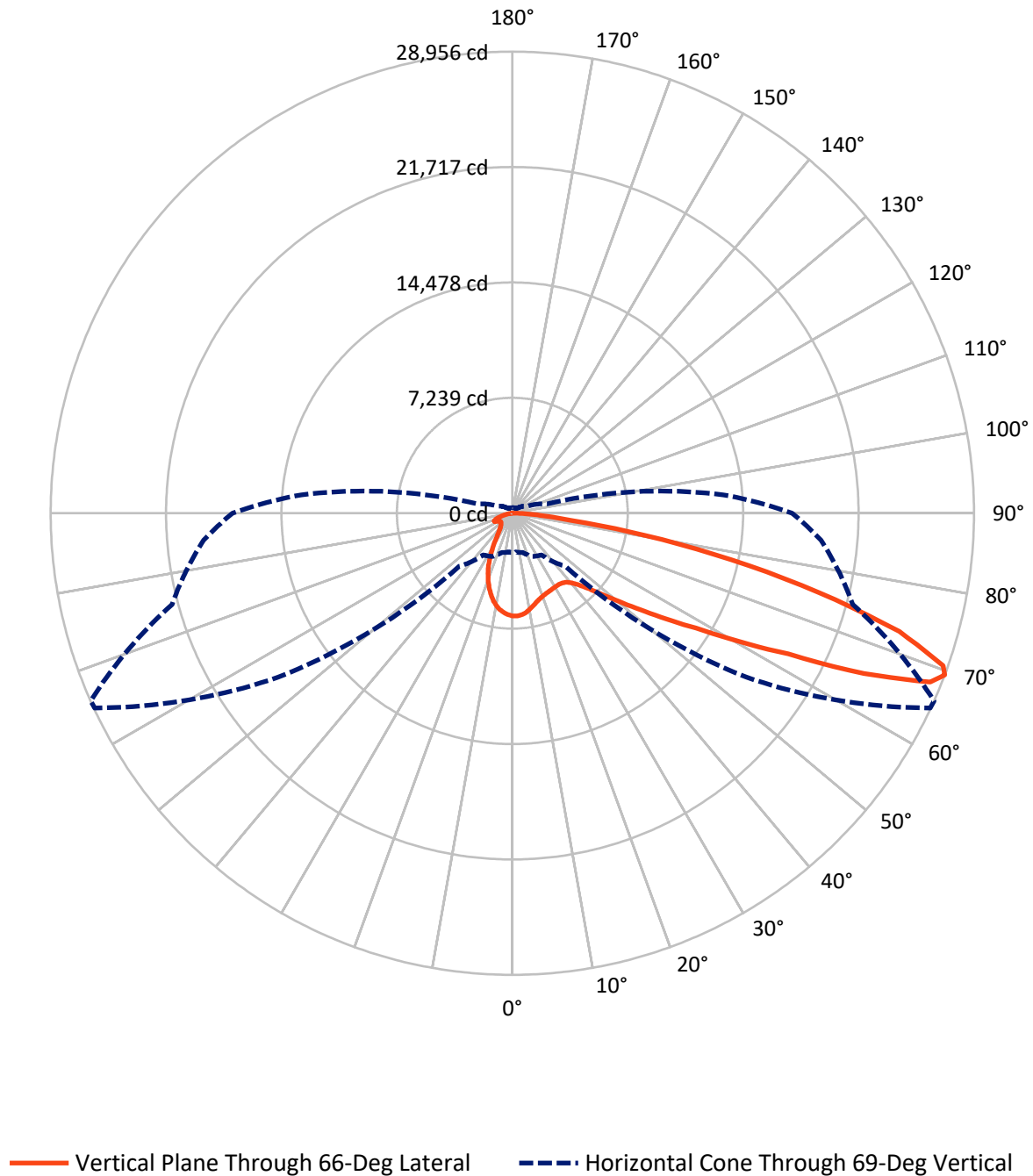


Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type III - Medium - N/A

REPORT NUMBER: P454547

CATALOG NUMBER: GALN-SA5C-830-U-SL2

Luminous Intensity Polar Plot



REPORT NUMBER: P454547

CATALOG NUMBER: GALN-SA5C-830-U-SL2

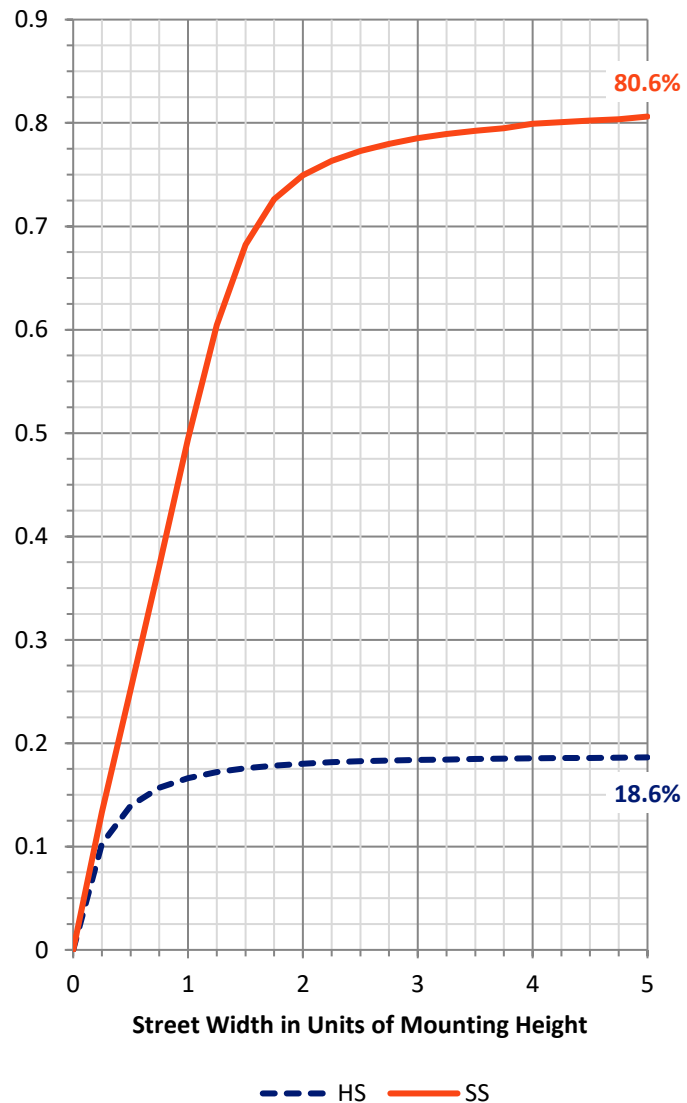
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5252.0	0.0	5252.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	22675.0	0.0	22675.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	27927.0	0.0	27927.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	560.0	2.0
10°-20°	1328.4	4.8
20°-30°	1808.4	6.5
30°-40°	2430.1	8.7
40°-50°	3628.5	13.0
50°-60°	5771.7	20.7
60°-70°	7098.9	25.4
70°-80°	4618.9	16.5
80°-90°	682.1	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°	27927.0	100.0
0°-180°	27927.0	100.0

Coefficient of Utilization



REPORT NUMBER: P454547

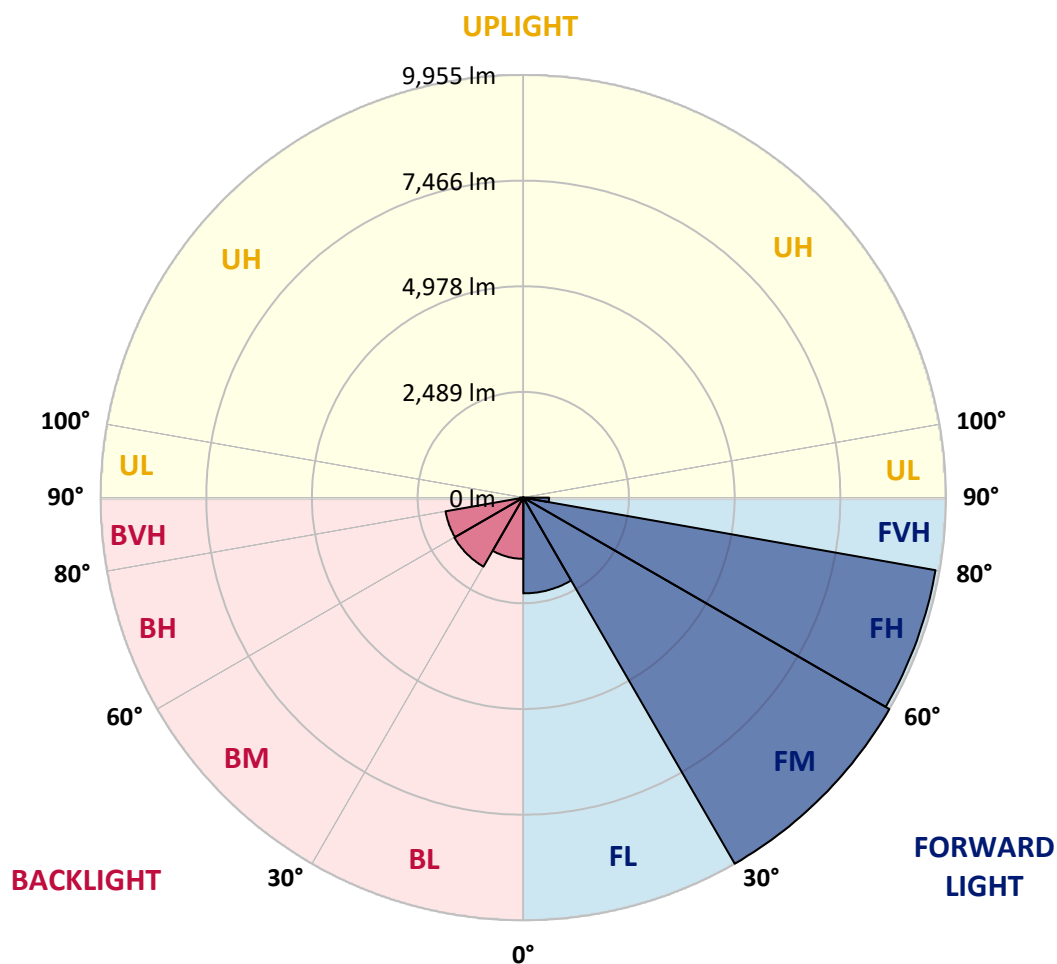
CATALOG NUMBER: GALN-SA5C-830-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2255.1	8.1			
FM	(30°-60°)	9955.1	35.6			
FH	(60°-80°)	9858.4	35.3			G4/12000
FVH	(80°-90°)	606.4	2.2			G4/750
BL	(0°-30°)	1441.7	5.2	B3/2500		
BM	(30°-60°)	1875.2	6.7	B2/2500		
BH	(60°-80°)	1859.4	6.7	B3/2500		G3/2500
BVH	(80°-90°)	75.7	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-G4

Type III Medium





REPORT NUMBER: P454547

CATALOG NUMBER: GALN-SA5C-830-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6449.1	6449.1	6449.1	6449.1	6449.1	6449.1	6449.1	6449.1	6449.1	6449.1	6449.1
2.5°	6223.3	6248.1	6275.9	6306.8	6365.6	6398.1	6421.3	6447.6	6450.7	6464.6	6453.8
5°	5764.0	5793.4	5835.1	5893.9	5982.1	6119.7	6262.0	6378.0	6391.9	6456.9	6475.4
7.5°	5380.5	5397.5	5431.5	5525.8	5651.1	5804.2	6011.4	6246.5	6280.5	6435.2	6489.3
10°	5068.0	5085.1	5125.3	5222.7	5346.4	5538.2	5765.5	6074.9	6102.7	6368.7	6492.4
12.5°	4834.5	4850.0	4893.3	4989.2	5131.5	5310.9	5561.4	5889.3	5929.5	6280.5	6463.0
15°	4656.7	4686.1	4721.6	4800.5	4950.5	5123.7	5366.5	5719.1	5751.6	6187.8	6442.9
17.5°	4580.9	4594.8	4619.5	4692.2	4802.0	4972.2	5216.5	5586.1	5624.8	6122.8	6438.3
20°	4584.0	4597.9	4602.5	4642.7	4721.6	4868.5	5109.8	5481.0	5527.4	6065.6	6446.0
22.5°	4689.1	4690.7	4673.7	4659.8	4690.7	4812.9	5034.0	5402.1	5456.2	6040.8	6452.2
25°	4851.5	4879.4	4854.6	4789.7	4732.4	4791.2	5004.6	5358.8	5409.8	6005.3	6444.5
27.5°	5114.4	5119.1	5099.0	5010.8	4862.4	4819.1	4992.3	5326.3	5369.6	5979.0	6405.8
30°	5467.1	5453.1	5434.6	5337.1	5103.6	4925.8	5018.6	5296.9	5341.8	5940.3	6359.4
32.5°	5824.3	5867.6	5850.6	5736.2	5433.0	5133.0	5103.6	5293.8	5331.0	5910.9	6308.4
35°	6203.2	6223.3	6303.7	6245.0	5934.1	5468.6	5262.9	5341.8	5371.2	5912.5	6272.8
37.5°	6500.2	6554.3	6743.0	6794.0	6501.7	5912.5	5521.2	5477.9	5490.3	5988.2	6286.7
40°	6859.0	6951.7	7194.6	7403.3	7211.6	6489.3	5960.4	5730.0	5745.4	6170.7	6378.0
42.5°	7313.6	7378.6	7704.9	7987.9	7957.0	7251.8	6492.4	6142.9	6150.6	6534.2	6633.2
45°	7845.7	7938.4	8305.0	8730.3	8803.0	8114.8	7261.1	6767.7	6763.1	7098.7	7109.5
47.5°	8526.1	8583.4	8946.8	9410.8	9704.6	9198.9	8193.6	7664.7	7615.2	7921.4	7833.3
50°	9152.5	9242.2	9517.5	10024.7	10756.3	10468.6	9420.0	8827.7	8711.7	8997.8	8849.4
52.5°	9415.4	9509.7	9741.7	10371.2	11657.9	12111.0	10977.4	10215.0	10021.7	10241.3	10187.1
55°	8959.2	9081.4	9297.9	10063.4	12053.8	14005.6	13077.6	11818.7	11678.0	11583.7	11599.1
57.5°	7732.8	7848.7	8141.0	8985.5	11580.6	15380.5	16076.4	13880.3	13578.7	13144.1	13218.4
60°	5886.2	5958.9	6110.4	7046.1	10177.9	15737.7	19481.9	16486.2	16294.5	14698.4	14751.0
62.5°	4180.3	4262.3	4367.5	4834.5	7451.3	14730.9	22148.2	20125.3	19440.2	16308.4	16257.4
65°	3394.7	3339.0	3465.8	3683.9	4372.1	11416.6	22748.2	25176.3	24232.9	18428.7	17720.4
67.5°	2791.5	2732.8	2858.0	3246.2	3325.1	6627.0	20586.1	28455.0	28266.3	20734.6	19206.6
69°	2471.4	2440.5	2550.3	2992.6	3192.1	4706.2	17933.8	28911.2	28956.1	22094.0	19435.5
70°	2227.0	2239.4	2346.1	2864.2	3131.8	3880.3	15327.9	28281.8	28662.2	22773.0	19188.1
72.5°	1639.3	1665.6	1814.1	2372.4	3074.5	3292.6	9121.6	24703.1	25375.8	22813.2	17553.4
75°	1146.0	1133.6	1265.1	1786.3	2904.4	3263.2	5357.3	19104.6	19867.0	19718.5	14749.5
77.5°	750.1	770.2	875.3	1262.0	2443.6	3238.5	3492.1	13554.0	14048.9	13187.4	8724.1
80°	528.9	527.4	586.1	861.4	1812.6	3111.7	2859.6	8543.2	8417.9	5182.5	2587.4
82.5°	303.1	324.8	392.8	606.2	1212.5	2738.9	2630.7	4086.0	3730.3	1477.0	873.8
85°	168.6	176.3	233.5	366.5	708.3	2063.1	2296.6	1859.0	1753.8	617.1	375.8
87.5°	54.1	58.8	97.4	185.6	321.7	974.3	1300.6	858.3	791.8	222.7	151.6
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: P454547

CATALOG NUMBER: GALN-SA5C-830-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6449.1	6449.1	6449.1	6449.1	6449.1	6449.1	6449.1	6449.1	6449.1	6449.1	6449.1
2.5°	6458.4	6477.0	6427.5	6379.5	6336.2	6275.9	6221.8	6176.9	6146.0	6141.4	6125.9
5°	6480.1	6481.6	6387.3	6260.4	6136.7	6000.6	5859.9	5759.4	5665.0	5612.4	5586.1
7.5°	6495.5	6481.6	6311.5	6105.8	5867.6	5620.2	5372.7	5174.8	5021.7	4961.3	4984.5
10°	6489.3	6446.0	6197.0	5867.6	5521.2	5151.6	4795.9	4517.5	4262.3	4130.8	4133.9
12.5°	6455.3	6384.2	6026.9	5600.1	5091.2	4596.4	4052.0	3676.2	3380.8	3206.0	3151.9
15°	6425.9	6302.2	5827.4	5236.6	4604.1	3897.3	3233.8	2769.9	2522.4	2384.8	2383.2
17.5°	6395.0	6223.3	5609.3	4851.5	4044.2	3134.9	2438.9	2084.8	1968.8	1982.7	1959.5
20°	6362.5	6130.5	5382.0	4423.1	3362.2	2338.4	1826.5	1682.6	1715.1	1778.5	1787.8
22.5°	6325.4	6031.6	5137.6	3951.4	2644.6	1760.0	1481.6	1459.9	1543.5	1642.4	1656.4
25°	6268.2	5907.8	4829.9	3458.1	2039.9	1418.2	1297.6	1313.0	1395.0	1478.5	1487.8
27.5°	6187.8	5754.7	4519.0	2842.6	1532.6	1217.1	1186.2	1206.3	1246.5	1297.6	1309.9
30°	6079.5	5581.5	4161.8	2310.5	1228.0	1116.6	1104.2	1115.1	1138.3	1159.9	1166.1
32.5°	5971.2	5414.5	3801.4	1769.3	1095.0	1050.1	1037.7	1037.7	1037.7	1040.8	1042.4
35°	5870.7	5256.7	3414.8	1378.0	1025.4	997.5	980.5	962.0	958.9	948.0	948.0
37.5°	5815.0	5112.9	3003.4	1153.7	974.3	954.2	931.0	900.1	883.1	884.6	881.5
40°	5825.9	5018.6	2629.1	1026.9	932.6	910.9	875.3	839.8	829.0	829.0	825.9
42.5°	5948.0	4987.6	2270.3	960.4	892.4	867.6	822.8	790.3	784.1	782.6	785.6
45°	6229.5	5063.4	1948.7	917.1	858.3	821.2	776.4	747.0	740.8	740.8	739.3
47.5°	6778.5	5309.3	1718.2	889.3	833.6	785.6	739.3	709.9	699.0	695.9	695.9
50°	7632.2	5842.9	1546.6	864.5	802.7	753.2	705.2	671.2	654.2	652.6	651.1
52.5°	8818.4	6674.9	1480.0	846.0	768.6	719.1	666.6	634.1	612.4	607.8	604.7
55°	10205.7	7836.4	1571.3	832.0	733.1	680.5	626.4	592.3	572.2	562.9	561.4
57.5°	11812.6	9231.4	1917.7	813.5	700.6	638.7	586.1	552.1	530.5	519.6	516.5
60°	13255.5	10665.0	2522.4	802.7	672.7	593.9	539.7	508.8	488.7	477.9	476.3
62.5°	14840.7	12032.2	3244.7	832.0	660.4	550.6	496.4	468.6	451.6	440.8	440.8
65°	16534.2	13400.9	3722.5	931.0	678.9	516.5	450.0	426.8	411.4	403.6	402.1
67.5°	17675.5	13874.1	3066.8	1033.1	725.3	479.4	405.2	386.6	377.4	369.6	369.6
69°	17551.8	13275.6	2262.6	1059.4	739.3	460.9	380.5	366.5	354.2	351.1	348.0
70°	17160.5	12593.6	1896.1	1042.4	728.4	443.9	365.0	348.0	337.1	334.1	332.5
72.5°	15284.6	10921.7	1412.0	906.3	620.2	385.1	323.2	307.8	298.5	293.8	293.8
75°	12698.7	8926.7	1102.7	720.7	485.6	324.8	276.8	264.5	256.7	253.6	252.1
77.5°	7117.2	4984.5	791.8	564.5	368.1	262.9	232.0	221.2	213.4	210.3	210.3
80°	1982.7	1424.4	465.5	372.7	250.5	199.5	184.0	176.3	165.5	157.7	162.4
82.5°	747.0	617.1	266.0	224.2	159.3	133.0	128.4	122.2	117.5	106.7	106.7
85°	363.4	300.0	170.1	119.1	88.2	69.6	66.5	63.4	60.3	52.6	54.1
87.5°	125.3	133.0	74.2	43.3	26.3	17.0	13.9	7.7	7.7	7.7	7.7
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)