

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: P456190

Luminaire Tested: **GALN-SA7B-830-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456190
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-830-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31425 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 286
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

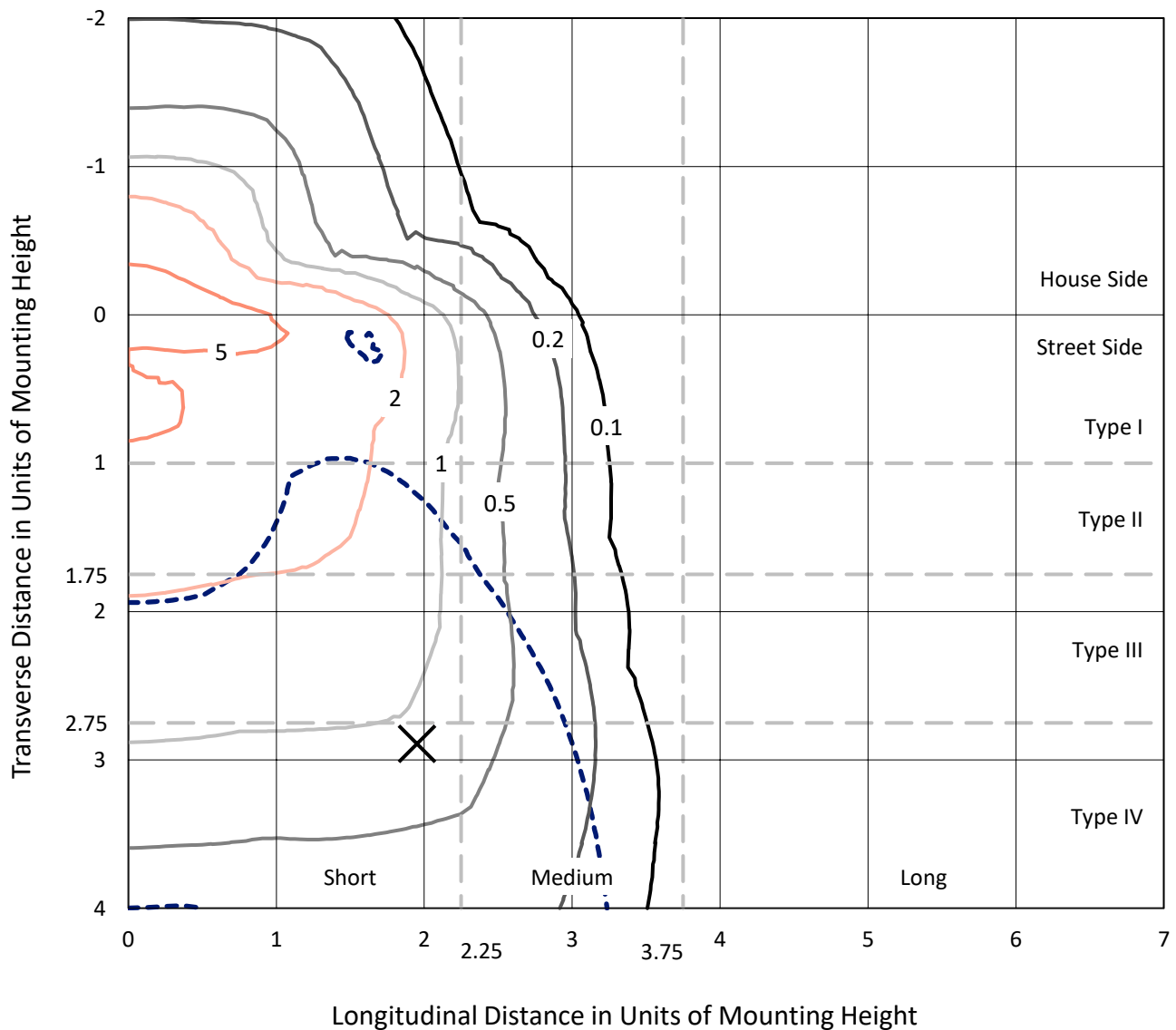


REPORT NUMBER: P456190

CATALOG NUMBER: GALN-SA7B-830-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

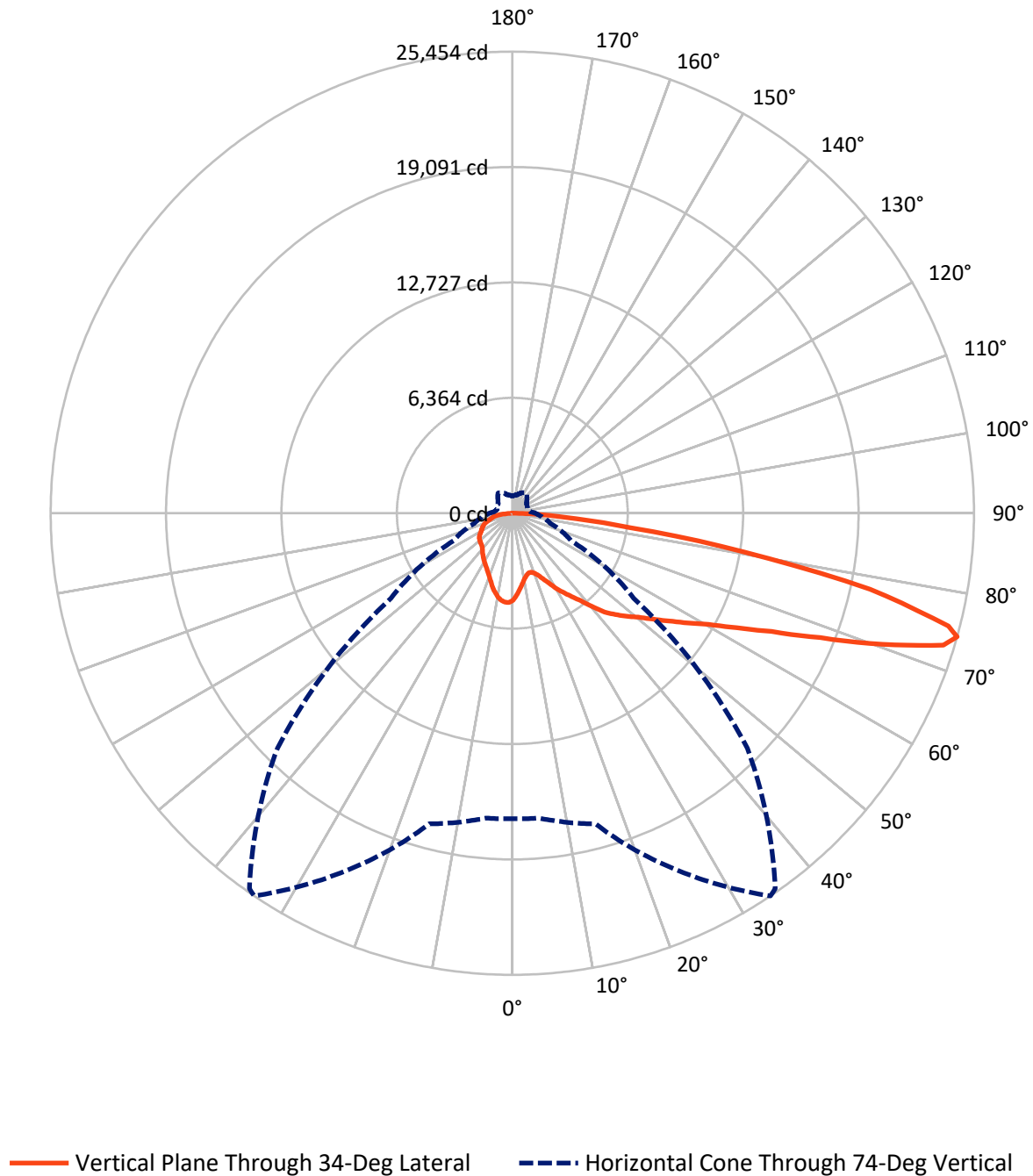


Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P456190

CATALOG NUMBER: GALN-SA7B-830-U-T4FT

Luminous Intensity Polar Plot



REPORT NUMBER: P456190

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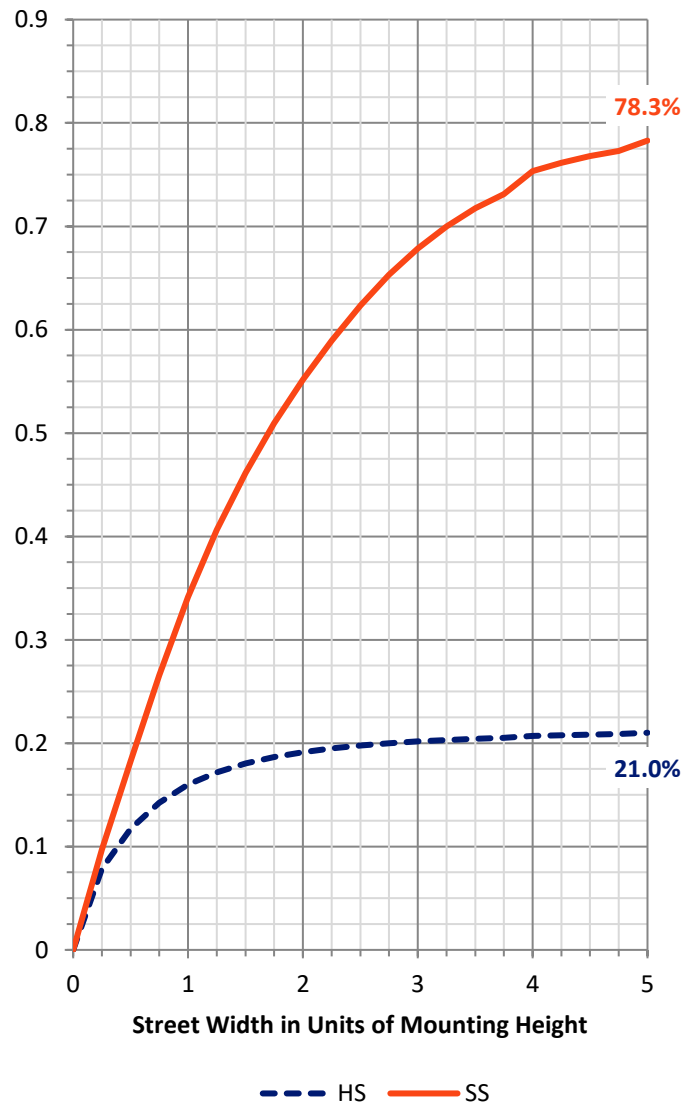
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6687.5	0.0	6687.5
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	24737.5	0.0	24737.5
	% Fixture	78.7	0.0	78.7
Total	Lumens	31425.0	0.0	31425.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	436.4	1.4
10°-20°	1194.5	3.8
20°-30°	1969.4	6.3
30°-40°	2950.0	9.4
40°-50°	4288.5	13.6
50°-60°	5990.0	19.1
60°-70°	7499.1	23.9
70°-80°	6201.2	19.7
80°-90°	896.0	2.9
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°	31425.0	100.0
0°-180°	31425.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456190

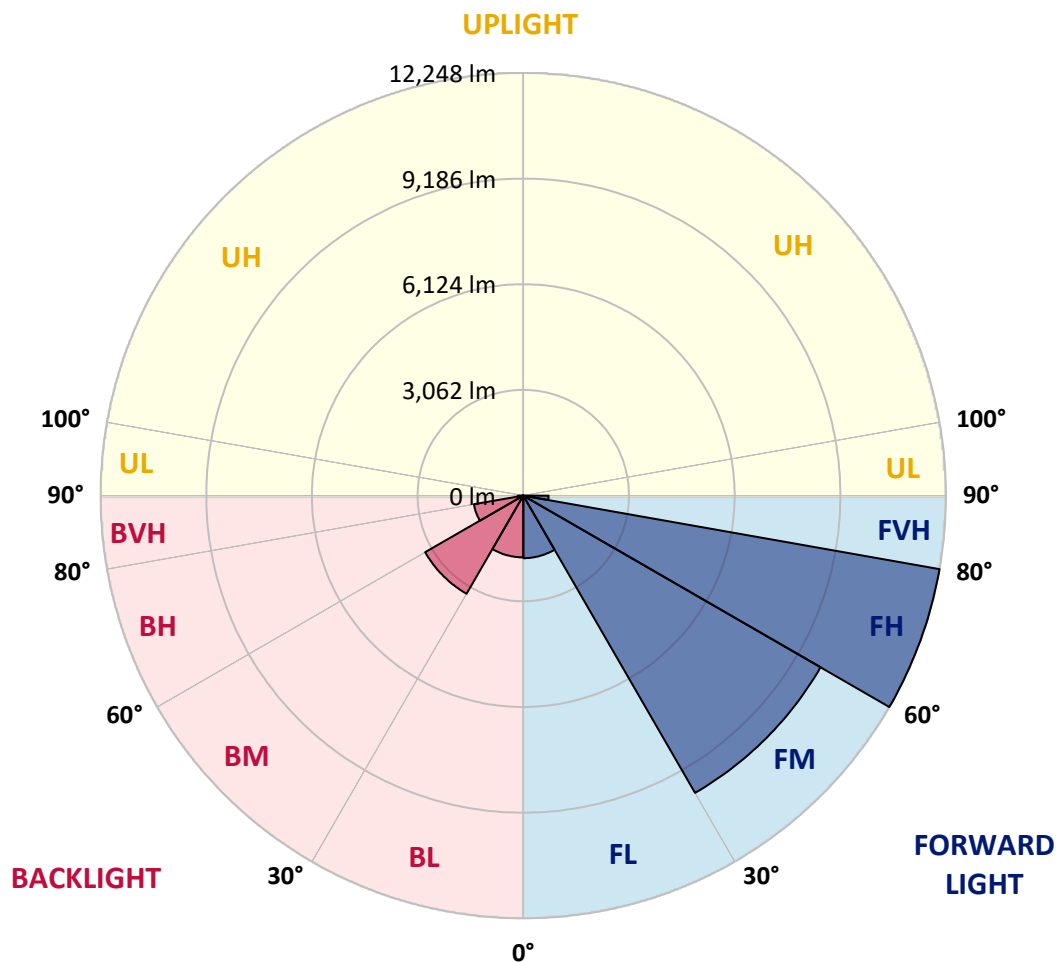
CATALOG NUMBER: GALN-SA7B-830-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1811.5	5.8			
FM	(30°-60°)	9944.2	31.6			
FH	(60°-80°)	12247.8	39.0			G5
FVH	(80°-90°)	734.1	2.3			G4/750
BL	(0°-30°)	1788.8	5.7	B3/2500		
BM	(30°-60°)	3284.2	10.5	B3/5000		
BH	(60°-80°)	1452.5	4.6	B3/2500		G3/2500
BVH	(80°-90°)	162.0	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





REPORT NUMBER: P456190

CATALOG NUMBER: GALN-SA7B-830-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4798.0	4798.0	4798.0	4798.0	4798.0	4798.0	4798.0	4798.0	4798.0	4798.0	4798.0
2.5°	4434.1	4456.8	4468.9	4512.5	4522.9	4536.8	4573.4	4622.1	4684.8	4740.5	4789.3
5°	4065.0	4099.9	4120.8	4159.1	4233.9	4240.9	4338.4	4449.8	4576.9	4695.3	4792.8
7.5°	3715.1	3753.4	3770.8	3840.5	3939.7	3955.4	4098.1	4274.0	4486.4	4665.7	4815.4
10°	3452.2	3471.4	3509.7	3561.9	3680.3	3690.8	3877.0	4112.1	4387.1	4651.7	4853.7
12.5°	3309.5	3319.9	3328.6	3384.3	3501.0	3516.7	3711.6	3978.0	4308.8	4662.2	4916.4
15°	3330.4	3333.9	3295.6	3306.0	3400.0	3422.6	3615.9	3889.2	4260.0	4688.3	5010.4
17.5°	3506.2	3494.0	3400.0	3351.3	3417.4	3427.9	3596.7	3854.4	4237.4	4737.0	5107.9
20°	3783.0	3765.6	3603.7	3495.8	3534.1	3542.8	3659.4	3880.5	4260.0	4817.1	5259.3
22.5°	4127.7	4120.8	3875.3	3744.7	3743.0	3743.0	3803.9	3974.5	4327.9	4926.8	5417.7
25°	4610.0	4573.4	4253.1	4084.2	4037.2	4033.7	4026.7	4129.5	4415.0	5043.4	5605.8
27.5°	5104.4	5041.7	4756.2	4496.8	4395.8	4383.6	4338.4	4348.8	4526.4	5175.8	5819.9
30°	5548.3	5508.3	5240.2	4952.9	4832.8	4804.9	4679.6	4622.1	4712.7	5414.3	6161.1
32.5°	5887.8	5863.4	5654.5	5393.4	5215.8	5210.6	5027.8	4980.8	5003.4	5703.3	6551.1
35°	6162.9	6171.6	6065.4	5839.0	5635.4	5605.8	5483.9	5424.7	5358.6	6121.1	7042.0
37.5°	6538.9	6558.0	6551.1	6356.1	6107.1	6114.1	6086.3	5988.8	5812.9	6587.6	7586.9
40°	6953.2	6967.2	6965.4	6890.6	6760.0	6767.0	6756.5	6645.1	6382.2	7181.3	8192.8
42.5°	7526.0	7459.8	7287.5	7362.4	7439.0	7472.0	7543.4	7437.2	7076.8	7815.0	8762.1
45°	8166.7	8041.3	7651.3	7686.2	7969.9	8032.6	8426.1	8279.8	7830.7	8542.7	9432.3
47.5°	8570.6	8446.9	8117.9	8110.9	8487.0	8547.9	9244.3	9190.3	8516.6	9327.9	10250.5
50°	8930.9	8913.5	8542.7	8631.5	8998.8	9089.3	10135.6	10085.2	9200.8	10254.0	11141.9
52.5°	9465.4	9324.4	9028.4	9211.2	9696.9	9815.3	11020.0	10872.0	9829.2	11072.3	12007.1
55°	9705.6	9672.6	9655.1	9813.6	10480.3	10565.6	11880.0	11540.6	10365.4	11765.1	12665.2
57.5°	10348.0	10287.1	10459.4	10567.4	11403.0	11533.6	12778.4	12238.7	10835.5	12315.3	12985.5
60°	11180.2	11147.1	11305.5	11500.5	12433.7	12632.1	13802.0	12834.1	11213.3	12592.1	12809.7
62.5°	12423.2	12419.7	12390.1	12807.9	13894.3	14077.1	14977.1	13413.8	11272.5	12384.9	11900.9
65°	14205.9	14143.2	13885.6	14341.7	15711.8	15925.9	16201.0	13737.6	10915.6	11321.2	10020.7
67.5°	16070.4	16067.0	15858.0	16450.0	18321.4	18542.5	17731.3	13666.2	9925.0	9171.2	7116.9
70°	17616.4	17541.5	17807.9	19385.1	21655.3	21911.2	19070.0	12825.4	7905.5	6056.7	4228.7
72.5°	17987.2	17990.7	18544.3	21648.3	24856.9	24896.9	19552.3	10395.0	5290.7	3340.8	2115.2
74°	16845.1	16874.7	17733.0	21761.5	25454.0	25272.9	18319.7	8170.1	3577.6	2181.4	1525.0
75°	15375.8	15189.5	16430.8	21007.7	24834.2	24639.2	16876.5	6556.3	2729.8	1742.7	1335.3
77.5°	8220.6	8410.4	10325.4	15677.0	20175.5	19950.9	11443.1	3144.1	1474.6	1213.4	961.0
80°	2926.5	3227.7	4536.8	8203.2	12935.0	13004.7	5461.3	1441.5	1037.6	894.8	679.0
82.5°	1194.3	1227.3	1948.1	3640.3	6568.5	6631.2	2230.1	856.5	741.6	616.3	405.6
85°	466.6	480.5	861.8	1636.5	2802.9	2985.7	771.2	452.6	456.1	353.4	207.2
87.5°	156.7	177.6	353.4	544.9	952.3	933.1	224.6	134.1	163.6	153.2	64.4
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: P456190

CATALOG NUMBER: GALN-SA7B-830-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4798.0	4798.0	4798.0	4798.0	4798.0	4798.0	4798.0	4798.0	4798.0	4798.0	4798.0
2.5°	4813.6	4846.7	4869.4	4893.7	4916.4	4923.3	4918.1	4933.8	4935.5	4937.2	4939.0
5°	4841.5	4886.8	4930.3	4954.7	4965.1	4956.4	4926.8	4911.1	4897.2	4886.8	4890.2
7.5°	4879.8	4944.2	4984.3	4994.7	4966.8	4926.8	4853.7	4796.2	4759.7	4735.3	4733.6
10°	4939.0	5001.7	5034.7	5005.1	4928.5	4831.1	4716.2	4608.2	4526.4	4502.0	4500.3
12.5°	5013.9	5085.2	5083.5	4996.4	4862.4	4688.3	4502.0	4376.7	4265.3	4209.5	4232.2
15°	5111.3	5165.3	5114.8	4958.1	4745.7	4507.2	4277.4	4106.8	3981.5	3922.3	3925.8
17.5°	5224.5	5271.5	5137.5	4890.2	4582.1	4275.7	4009.3	3847.4	3748.2	3704.7	3701.2
20°	5365.5	5379.4	5137.5	4771.9	4371.5	4005.9	3751.7	3638.5	3582.8	3560.2	3567.1
22.5°	5517.0	5489.1	5109.6	4604.7	4094.6	3723.8	3553.2	3502.7	3474.9	3471.4	3474.9
25°	5687.6	5609.2	5052.2	4378.4	3805.7	3480.1	3380.9	3389.6	3394.8	3394.8	3407.0
27.5°	5896.5	5739.8	4956.4	4092.9	3467.9	3253.8	3225.9	3286.9	3314.7	3319.9	3328.6
30°	6171.6	5882.6	4798.0	3736.0	3180.7	3050.1	3098.8	3180.7	3212.0	3231.1	3227.7
32.5°	6498.9	6039.3	4583.8	3379.1	2949.1	2907.3	2966.5	3050.1	3084.9	3095.4	3081.4
35°	6883.6	6216.8	4301.8	3044.9	2747.2	2771.5	2841.2	2867.3	2898.6	2898.6	2905.6
37.5°	7297.9	6359.6	3957.1	2738.5	2590.5	2679.3	2729.8	2705.4	2691.5	2674.1	2682.8
40°	7719.2	6465.8	3509.7	2435.5	2433.8	2583.5	2597.5	2527.8	2472.1	2454.7	2446.0
42.5°	8086.6	6531.9	3105.8	2200.5	2285.8	2489.5	2500.0	2388.5	2299.8	2247.5	2230.1
45°	8520.1	6608.5	2710.6	2005.5	2148.3	2414.7	2440.8	2291.1	2160.5	2050.8	2022.9
47.5°	9113.7	6782.6	2399.0	1854.1	2049.1	2367.7	2404.2	2211.0	2038.6	1895.9	1873.2
50°	9784.0	7021.1	2157.0	1751.4	1972.5	2325.9	2371.1	2129.1	1925.5	1767.0	1749.6
52.5°	10398.5	7150.0	1948.1	1659.1	1897.6	2249.3	2327.6	2070.0	1814.0	1638.2	1622.5
55°	10734.5	6941.0	1742.7	1568.6	1794.9	2150.0	2266.7	1988.1	1706.1	1570.3	1547.7
57.5°	10779.8	6509.3	1556.4	1471.1	1687.0	2028.2	2153.5	1888.9	1636.5	1523.3	1504.2
60°	10429.9	5865.2	1411.9	1391.0	1577.3	1890.6	2026.4	1801.9	1565.1	1471.1	1451.9
62.5°	9559.4	5165.3	1310.9	1317.9	1465.9	1746.1	1932.4	1718.3	1497.2	1413.6	1396.2
65°	8062.2	4263.5	1213.4	1243.0	1366.6	1633.0	1847.1	1648.7	1429.3	1370.1	1354.4
67.5°	5600.5	3077.9	1133.3	1164.7	1272.6	1518.1	1747.9	1573.8	1352.7	1321.4	1297.0
70°	3100.6	1894.1	1039.3	1075.9	1175.1	1389.3	1636.5	1460.6	1241.3	1227.3	1192.5
72.5°	1629.5	1206.5	933.1	973.2	1042.8	1223.9	1465.9	1337.0	1131.6	1072.4	1027.1
74°	1272.6	988.8	861.8	903.5	950.5	1126.4	1364.9	1248.2	1053.3	983.6	948.8
75°	1109.0	880.9	800.8	854.8	896.6	1060.2	1286.5	1185.6	1009.7	943.6	912.2
77.5°	783.4	659.8	654.6	719.0	741.6	929.7	1159.5	1079.4	900.1	830.4	800.8
80°	550.1	494.4	518.8	558.8	590.2	821.7	1075.9	933.1	738.2	656.3	645.9
82.5°	358.6	323.8	370.8	407.4	417.8	605.8	868.7	708.6	537.9	437.0	405.6
85°	165.4	161.9	212.4	207.2	205.4	296.0	515.3	414.3	309.9	231.5	217.6
87.5°	41.8	40.0	52.2	43.5	52.2	45.3	47.0	12.2	1.7	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)