

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: P646908

Luminaire Tested: **GALN-SA4C-835-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
 Report Number: P646908
 TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
 Test Lab: INNOVATION CENTER
 Issue Date: 1/4/2021
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: McGRAW-EDISON
 Catalog Number: GALN-SA4C-835-U-T2R-HSS
 Description: GALLEON AREA AND ROADWAY LUMINAIRE
 (4) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
 ROADWAY OPTICS WITH HOUSE SIDE SHIELD
 Light Source: -
 Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
 Luminaire Lumens: 17435.1 lumens
 Efficiency: N/A
 Efficacy: 81.9 lumens/watt
 Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
 IES Classification: Type II - Short
 BUG Rating: B1 - U0 - G2

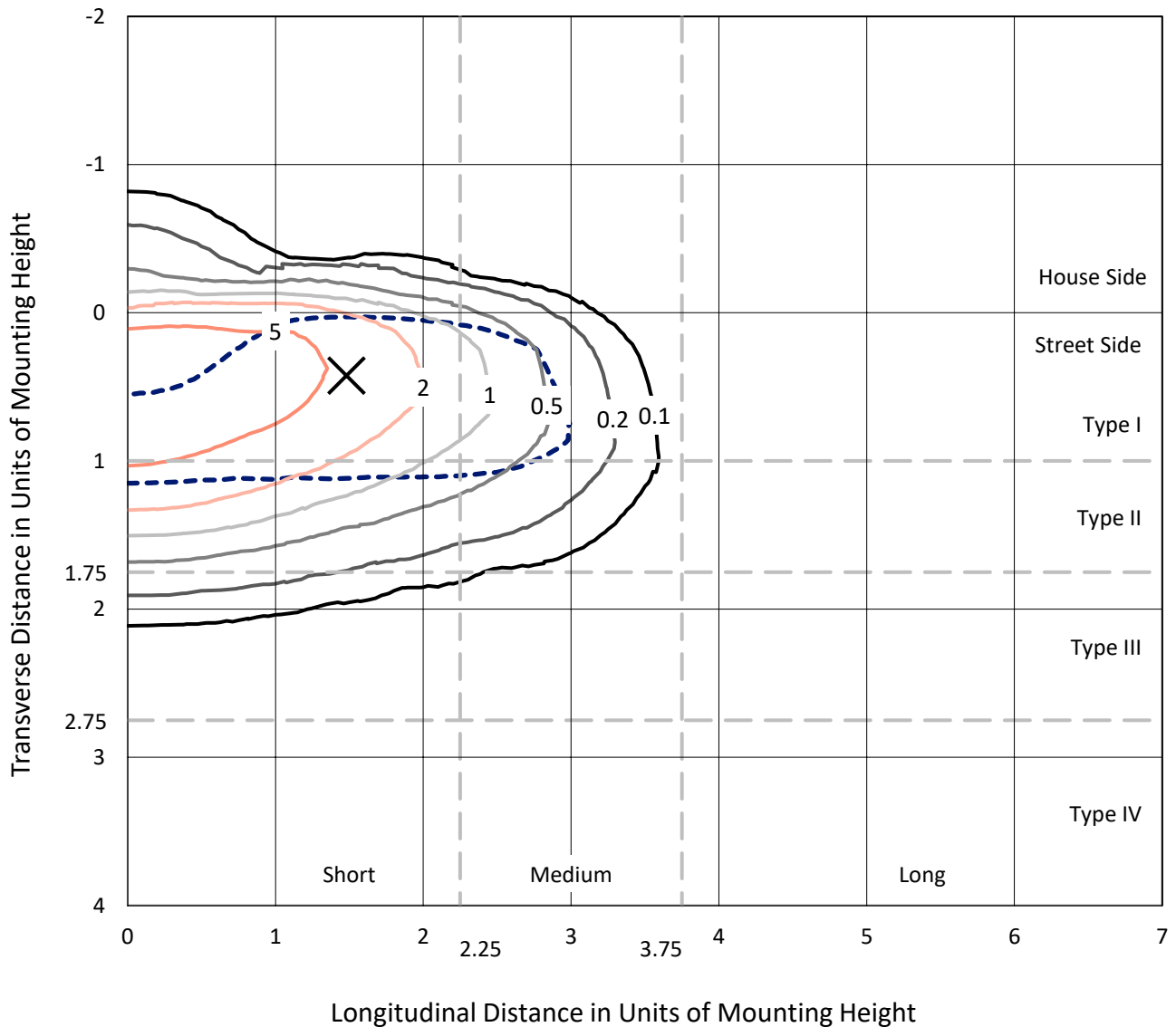
Input Watts (W): 213
 Input Voltage (V): NR
 Input Current (Ain): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 24 FT



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CATALOG NUMBER: GALN-SA4C-835-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

x Max cd
- - - 1/2 Max cd

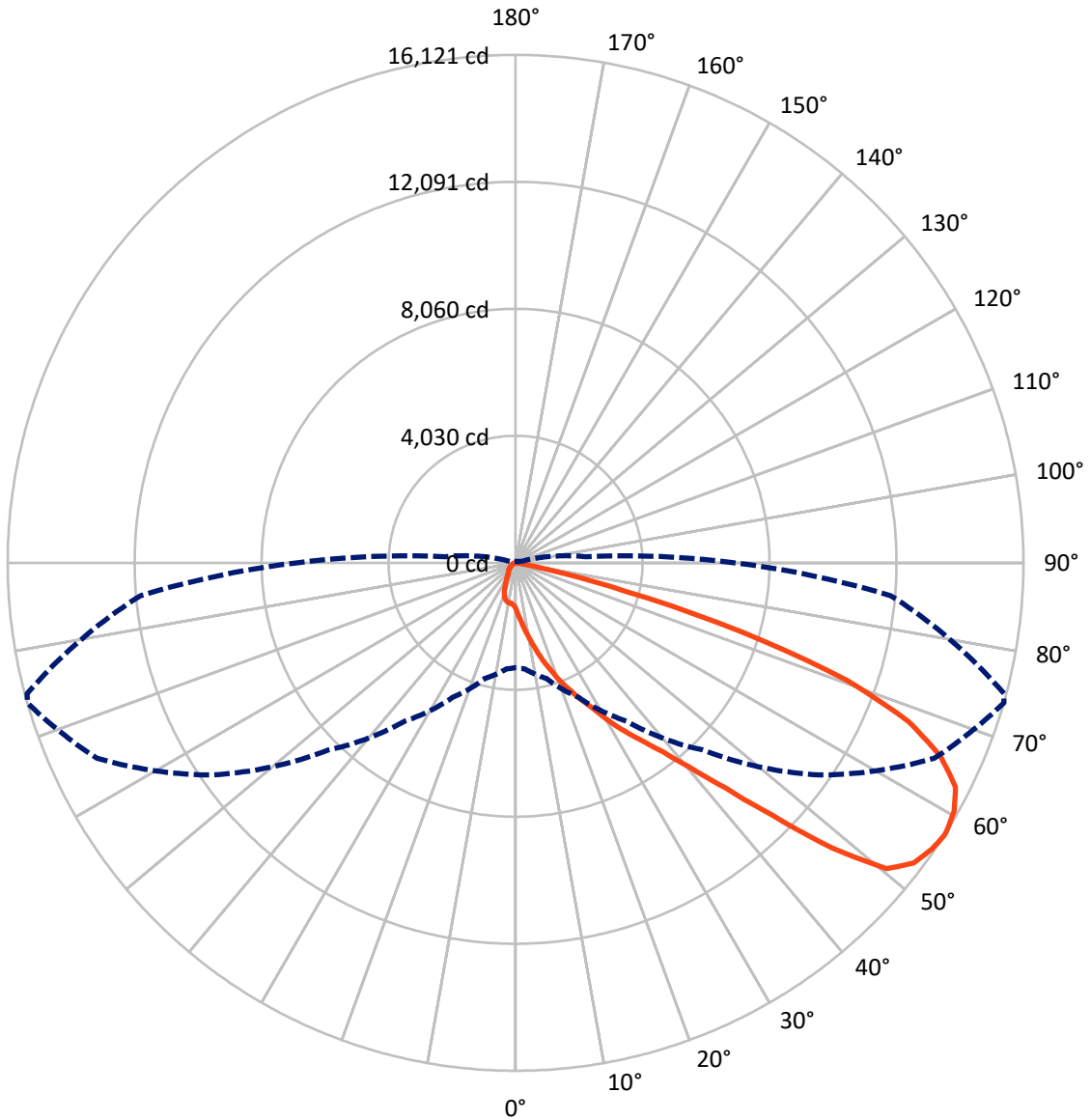


Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
Type II - Short - N/A



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CATALOG NUMBER: GALN-SA4C-835-U-T2R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - Horizontal Cone Through 57-Deg Vertical

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 CATALOG NUMBER: GALN-SA4C-835-U-T2R-HSS

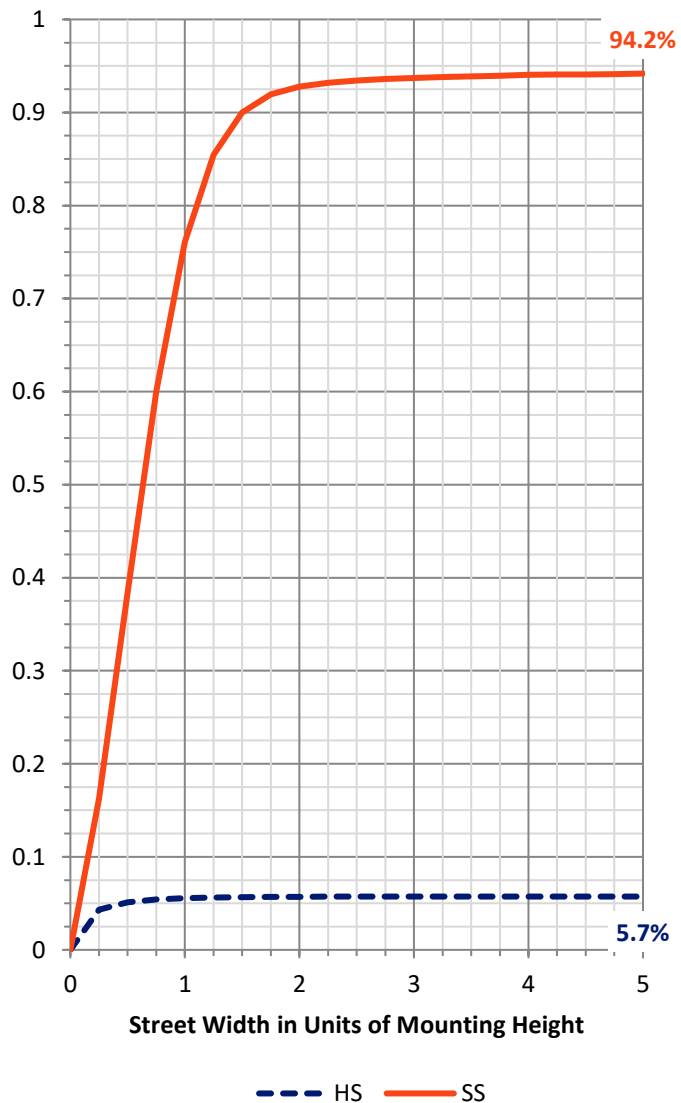
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1005.6	0.0	1005.6
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	16429.5	0.0	16429.5
	% Fixture	94.2	0.0	94.2
Total	Lumens	17435.1	0.0	17435.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.2	1.0
10°-20°	694.7	4.0
20°-30°	1486.5	8.5
30°-40°	2732.1	15.7
40°-50°	4188.4	24.0
50°-60°	4430.7	25.4
60°-70°	2893.4	16.6
70°-80°	790.6	4.5
80°-90°	42.6	0.2
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°	17435.1	100.0
0°-180°	17435.1	100.0

Coefficient of Utilization





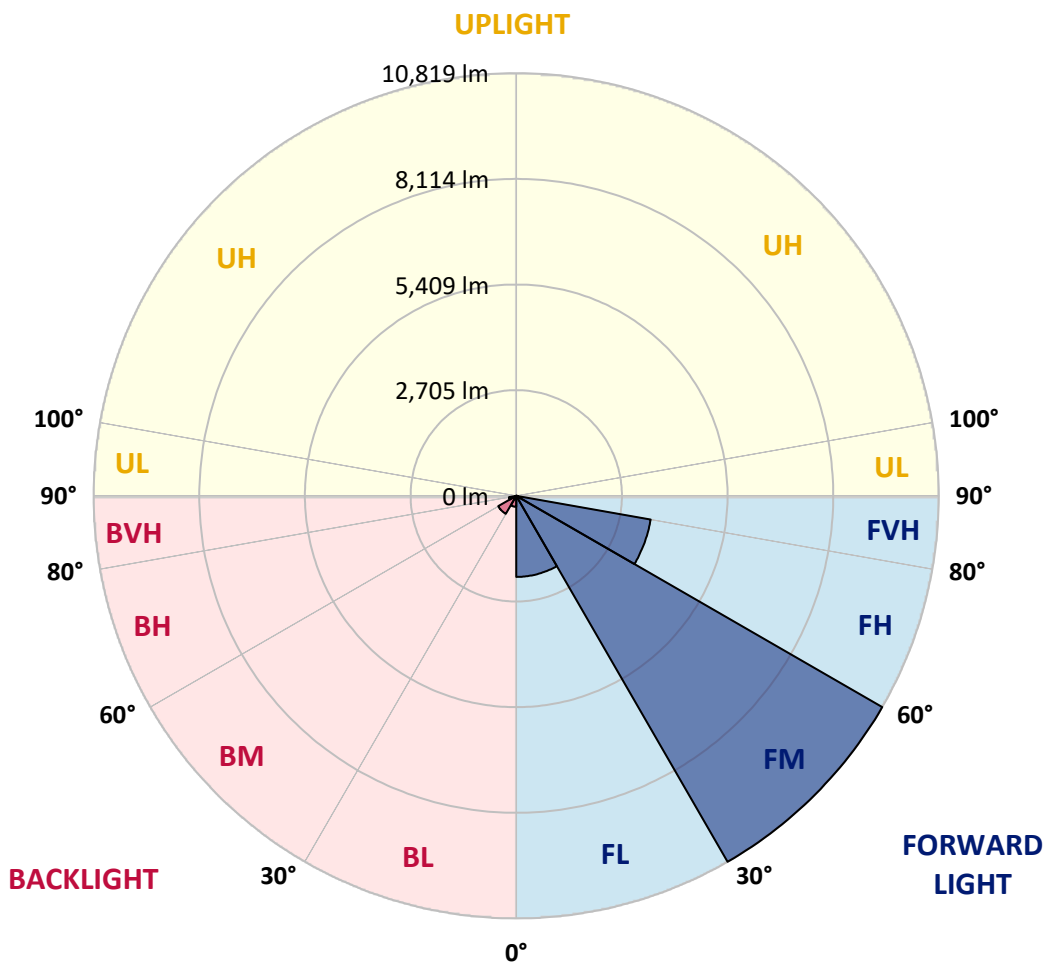
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 CATALOG NUMBER: GALN-SA4C-835-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2076.5	11.9			
FM (30°-60°)	10818.8	62.1			
FH (60°-80°)	3495.1	20.0			G2/5000
FVH (80°-90°)	39.0	0.2			G1/100
BL (0°-30°)	280.9	1.6	B1/500		
BM (30°-60°)	532.4	3.1	B1/1000		
BH (60°-80°)	188.8	1.1	B1/500		G1/500
BVH (80°-90°)	3.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CATALOG NUMBER: GALN-SA4C-835-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1460.1	1460.1	1460.1	1460.1	1460.1	1460.1	1460.1	1460.1	1460.1	1460.1	1460.1
2.5°	2136.7	2117.4	2078.9	2065.6	2009.1	1921.2	1844.2	1740.6	1658.8	1650.3	1551.7
5°	2861.3	2818.0	2799.9	2713.3	2577.2	2449.7	2230.6	2064.5	1873.1	1858.6	1660.0
7.5°	3559.5	3499.3	3481.3	3399.4	3240.5	3039.5	2755.4	2453.3	2149.9	2122.2	1805.7
10°	4065.1	4073.6	4041.1	3986.9	3858.1	3653.4	3303.1	2890.2	2458.1	2423.2	1969.3
12.5°	4427.5	4426.2	4432.2	4431.1	4362.4	4207.1	3838.8	3363.3	2797.6	2728.9	2157.2
15°	4663.4	4667.0	4685.1	4747.6	4754.8	4658.5	4351.6	3816.0	3191.2	3105.7	2360.6
17.5°	4901.7	4927.0	4955.9	5014.9	5067.8	5029.3	4812.6	4287.8	3547.5	3483.7	2578.5
20°	5295.4	5330.3	5313.4	5349.5	5377.2	5380.9	5213.5	4723.5	3979.7	3872.5	2827.6
22.5°	5924.9	5923.7	5880.4	5815.3	5761.2	5758.8	5607.1	5171.4	4372.0	4268.5	3078.1
25°	6720.6	6724.2	6639.9	6454.6	6319.7	6154.8	5980.3	5563.8	4792.2	4664.6	3341.6
27.5°	7633.1	7610.2	7482.6	7227.4	6960.2	6678.4	6426.9	6020.0	5237.6	5131.6	3643.8
30°	8452.8	8444.4	8295.1	7983.4	7631.8	7349.0	6984.2	6591.8	5814.2	5684.2	3982.0
32.5°	9216.0	9228.0	9021.0	8698.4	8358.9	8032.7	7647.5	7138.3	6380.0	6195.8	4350.4
35°	9811.9	9823.9	9609.6	9341.2	8992.1	8721.3	8354.1	7720.9	6938.5	6783.2	4774.1
37.5°	10129.7	10145.3	10021.3	9819.1	9601.2	9465.2	9123.3	8470.9	7617.4	7523.5	5274.9
40°	10189.9	10207.9	10153.7	10099.6	10087.5	10185.0	10085.1	9354.4	8558.7	8411.9	6021.2
42.5°	10009.2	10033.4	10057.4	10177.8	10423.4	10780.9	11128.8	10553.4	9770.9	9573.5	6933.7
45°	9535.0	9532.6	9627.7	9939.5	10489.6	11252.8	12219.4	12054.4	11422.5	11187.7	8222.9
47.5°	8723.6	8711.7	8917.5	9361.6	10218.8	11339.4	13109.0	13877.0	13530.3	13313.6	9608.4
50°	7487.4	7546.4	7870.2	8490.1	9545.9	11077.0	13383.4	15072.3	15260.1	15030.2	10728.0
52.5°	6039.3	6036.9	6544.9	7386.3	8549.1	10499.2	13192.1	15289.0	15822.2	15646.5	11279.3
55°	4469.6	4500.8	5029.3	5878.0	7255.0	9444.7	12567.3	15066.3	16036.5	15912.5	11642.8
57°	3324.8	3380.1	3803.9	4701.9	6128.4	8401.0	11735.4	14667.9	16120.8	16053.4	11944.9
57.5°	3103.3	3105.7	3518.6	4334.8	5798.5	8000.2	11497.1	14501.7	16118.4	16081.1	11994.3
60°	1910.4	1970.6	2255.8	2930.0	4244.5	6243.9	9899.7	13547.2	15993.2	16047.4	12204.9
62.5°	1143.6	1168.9	1354.2	1765.9	2736.1	4557.5	8101.3	12325.4	15667.0	15831.9	12190.5
65°	735.5	741.5	825.8	1069.0	1710.5	3080.4	6242.7	10711.0	14823.1	15126.5	11713.8
67.5°	568.1	577.8	611.5	701.8	991.9	1918.8	4415.4	8988.5	13458.0	13849.3	10558.2
70°	504.4	509.2	521.2	550.1	656.1	1083.4	2747.0	7021.6	11160.1	11270.8	8262.6
72.5°	411.7	424.9	462.3	471.8	520.0	676.5	1528.8	4712.7	7498.2	7525.9	4622.4
75°	319.0	321.4	376.8	404.5	438.2	465.9	682.5	2376.2	3601.6	3409.0	1781.6
77.5°	238.3	249.2	274.4	309.4	357.5	333.5	305.8	895.6	1118.3	1097.8	517.6
80°	152.8	158.9	191.4	232.3	278.0	217.9	172.1	262.4	245.5	252.8	123.9
82.5°	77.0	78.2	122.8	189.0	177.0	109.5	108.4	107.1	91.5	90.3	57.8
85°	8.5	18.1	79.5	108.4	79.5	36.1	50.6	49.3	48.2	49.3	33.7
87.5°	1.2	1.2	13.2	15.7	10.8	12.1	14.4	15.7	19.3	18.1	14.4
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: P646908

CATALOG NUMBER: GALN-SA4C-835-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1460.1	1460.1	1460.1	1460.1	1460.1	1460.1	1460.1	1460.1	1460.1	1460.1	1460.1
2.5°	1503.5	1455.4	1366.3	1280.8	1217.0	1176.1	1123.1	1103.9	1076.2	1072.6	1059.3
5°	1568.5	1477.1	1321.7	1198.9	1100.3	1025.6	960.6	906.4	863.1	853.5	858.2
7.5°	1661.2	1525.2	1308.5	1141.1	1004.0	876.3	772.8	709.0	663.3	646.4	648.8
10°	1765.9	1588.9	1306.0	1079.8	870.3	713.9	600.6	544.1	517.6	508.0	497.1
12.5°	1889.9	1662.4	1300.1	984.7	723.5	569.4	488.7	455.0	429.7	422.5	422.5
15°	2029.5	1740.6	1271.2	866.7	587.4	470.7	416.5	390.0	381.6	374.4	374.4
17.5°	2175.2	1817.7	1211.0	721.1	487.5	403.2	369.6	353.9	341.9	333.5	333.5
20°	2341.3	1893.5	1114.7	592.3	411.7	359.9	333.5	315.4	305.8	298.6	296.1
22.5°	2499.0	1954.9	991.9	486.3	358.7	323.8	299.7	280.5	270.8	267.2	267.2
25°	2662.7	1992.3	843.8	402.1	327.5	293.7	267.2	251.6	243.1	240.8	239.5
27.5°	2821.6	2013.9	713.9	351.5	298.6	266.1	240.8	228.7	220.3	217.9	219.1
30°	3014.2	2017.5	587.4	315.4	273.3	239.5	216.7	205.9	201.0	198.6	197.4
32.5°	3209.2	2012.7	493.5	293.7	249.2	216.7	197.4	189.0	185.4	181.7	181.7
35°	3428.3	1987.4	420.1	272.0	226.3	197.4	180.6	173.4	168.5	164.9	163.7
37.5°	3700.4	1974.2	378.0	248.0	205.9	179.4	163.7	156.5	152.8	148.1	146.9
40°	4128.9	2033.1	364.7	226.3	185.4	162.5	148.1	139.6	134.8	130.0	128.8
42.5°	4663.4	2136.7	343.1	204.7	167.3	146.9	132.4	122.8	114.4	108.4	105.9
45°	5355.6	2272.7	309.4	181.7	151.7	130.0	116.7	104.8	93.9	89.1	87.9
47.5°	6081.4	2403.9	279.3	163.7	134.8	115.6	101.1	87.9	78.2	74.6	73.4
50°	6526.8	2430.4	260.0	143.2	118.0	99.9	85.5	73.4	67.4	63.8	63.8
52.5°	6730.2	2388.2	233.6	125.2	102.3	87.9	73.4	63.8	60.2	57.8	56.6
55°	6872.3	2323.2	198.6	108.4	87.9	74.6	65.0	57.8	52.9	50.6	49.3
57°	6955.3	2235.4	172.1	95.1	75.9	65.0	57.8	51.8	47.0	42.1	42.1
57.5°	6958.9	2201.7	164.9	93.9	72.2	62.6	56.6	50.6	44.6	39.7	38.5
60°	6851.8	1970.6	132.4	79.5	57.8	52.9	47.0	39.7	31.3	26.5	25.3
62.5°	6507.5	1676.9	109.5	67.4	47.0	41.0	33.7	30.1	21.7	15.7	15.7
65°	5986.3	1360.2	93.9	54.2	38.5	30.1	22.9	21.7	13.2	7.2	6.0
67.5°	5232.8	1059.3	79.5	44.6	32.5	21.7	15.7	14.4	7.2	2.4	0.0
70°	3986.9	722.2	66.2	36.1	24.0	15.7	10.8	8.5	4.8	1.2	0.0
72.5°	2297.9	397.2	55.4	27.7	18.1	12.1	8.5	4.8	4.8	0.0	0.0
75°	821.0	170.9	42.1	20.4	14.4	9.6	6.0	2.4	3.6	1.2	0.0
77.5°	261.2	91.5	27.7	15.7	12.1	7.2	4.8	2.4	2.4	1.2	0.0
80°	77.0	48.2	16.8	13.2	8.5	6.0	3.6	1.2	2.4	1.2	0.0
82.5°	42.1	24.0	13.2	9.6	8.5	4.8	3.6	1.2	1.2	1.2	0.0
85°	21.7	14.4	10.8	9.6	8.5	4.8	3.6	1.2	0.0	1.2	1.2
87.5°	12.1	10.8	10.8	9.6	8.5	6.0	3.6	1.2	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)