

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: P647279

Luminaire Tested: **GALN-SA2D-835-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647279
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-835-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6734.6 lumens
Efficiency: N/A
Efficacy: 53.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

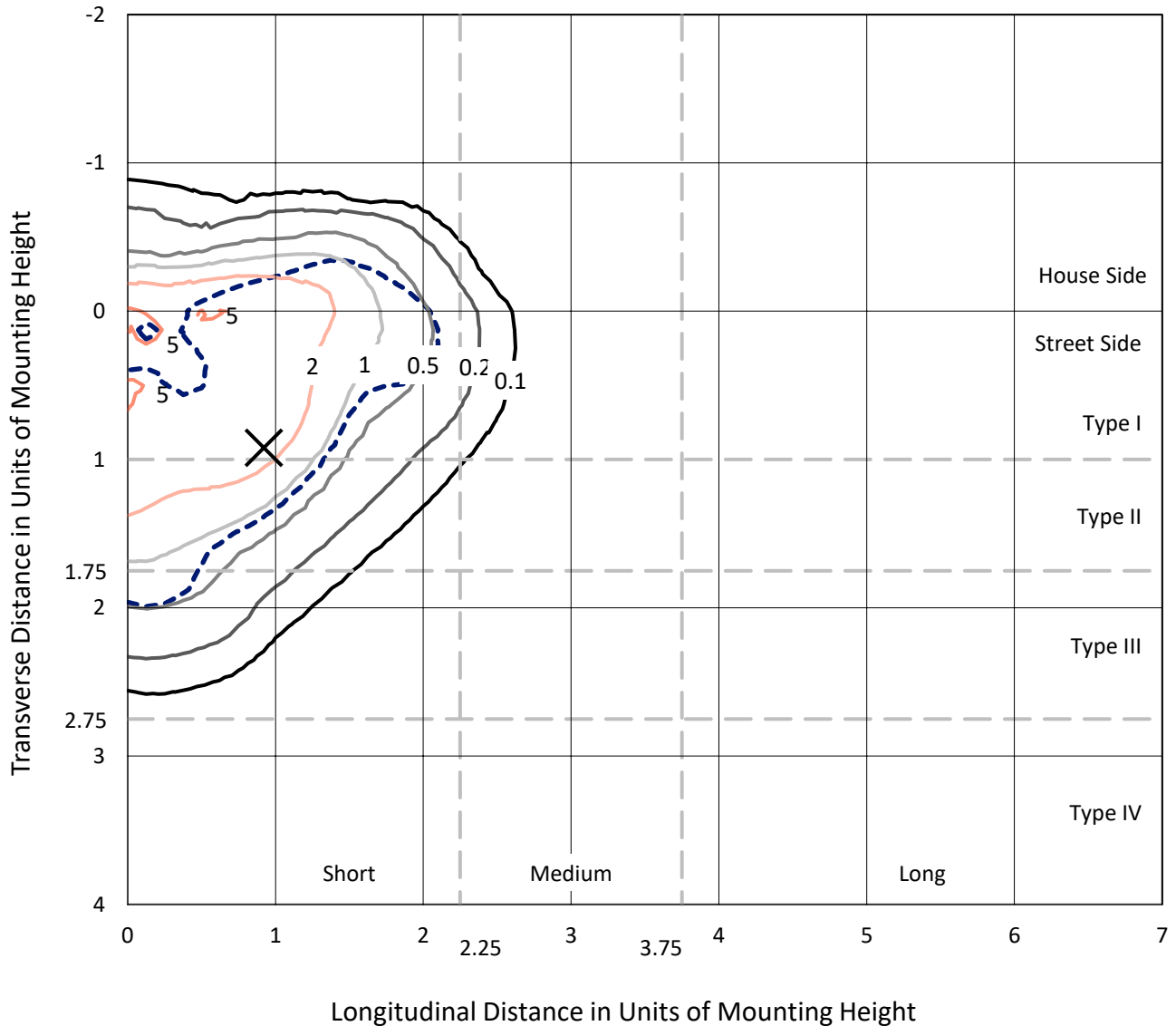
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647279
 CATALOG NUMBER: GALN-SA2D-835-U-SLL-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

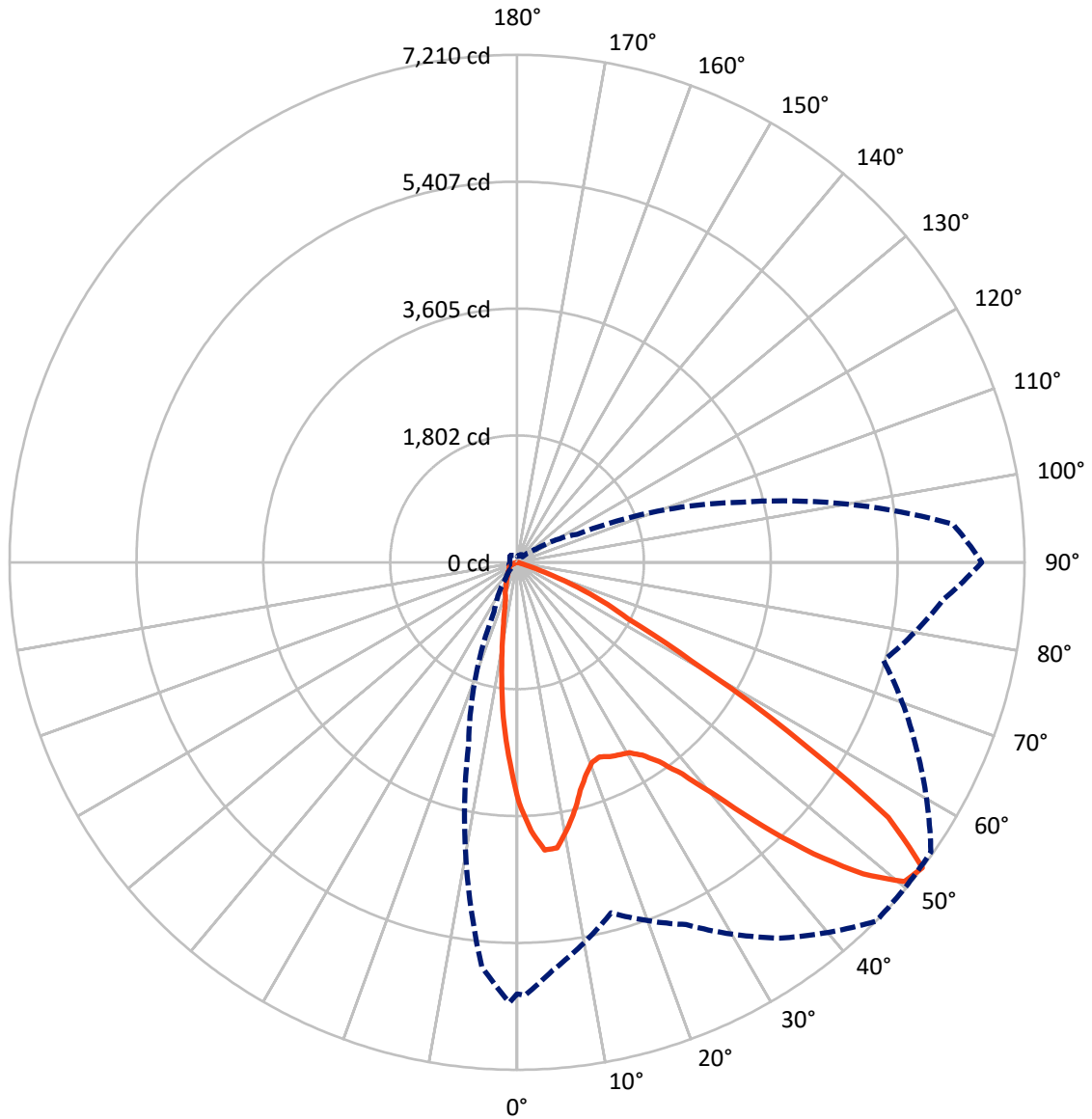
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type III - Short - N/A

REPORT NUMBER: P647279
CATALOG NUMBER: GALN-SA2D-835-U-SLL-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

REPORT NUMBER: P647279
 CATALOG NUMBER: GALN-SA2D-835-U-SLL-GRSBK

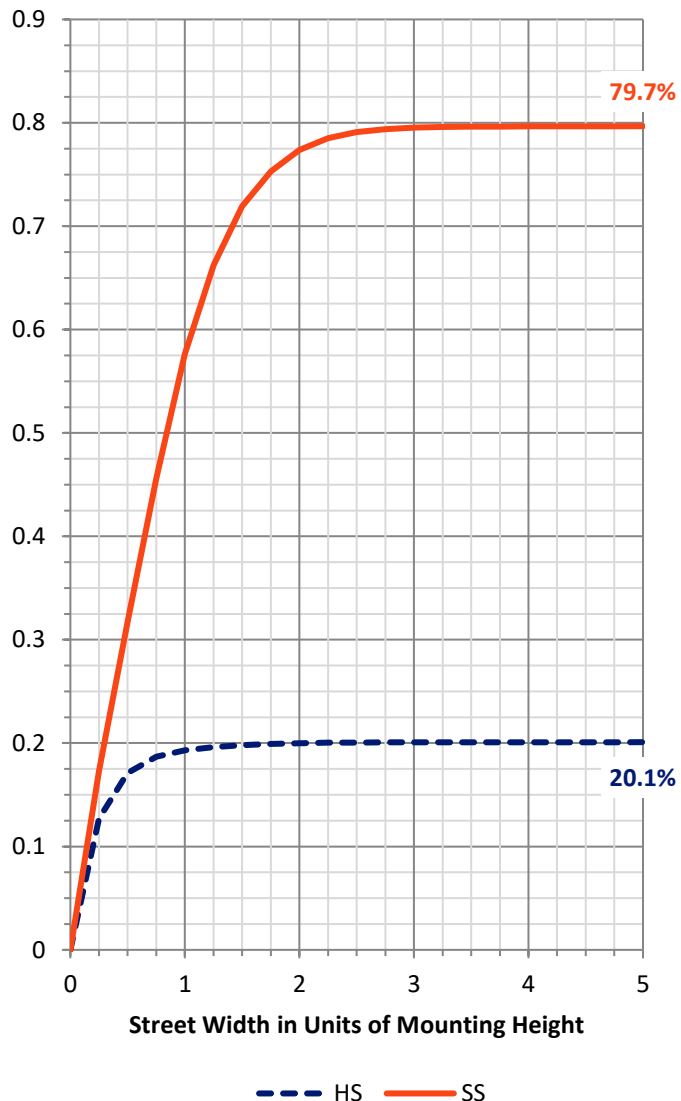
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1366.8	0.0	1366.8
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	5367.8	0.0	5367.8
	% Fixture	79.7	0.0	79.7
Total	Lumens	6734.6	0.0	6734.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.0	3.7
10°-20°	491.3	7.3
20°-30°	747.7	11.1
30°-40°	1117.6	16.6
40°-50°	1591.5	23.6
50°-60°	1710.8	25.4
60°-70°	758.1	11.3
70°-80°	61.3	0.9
80°-90°	7.2	0.1
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°	6734.6	100.0
0°-180°	6734.6	100.0

Coefficient of Utilization

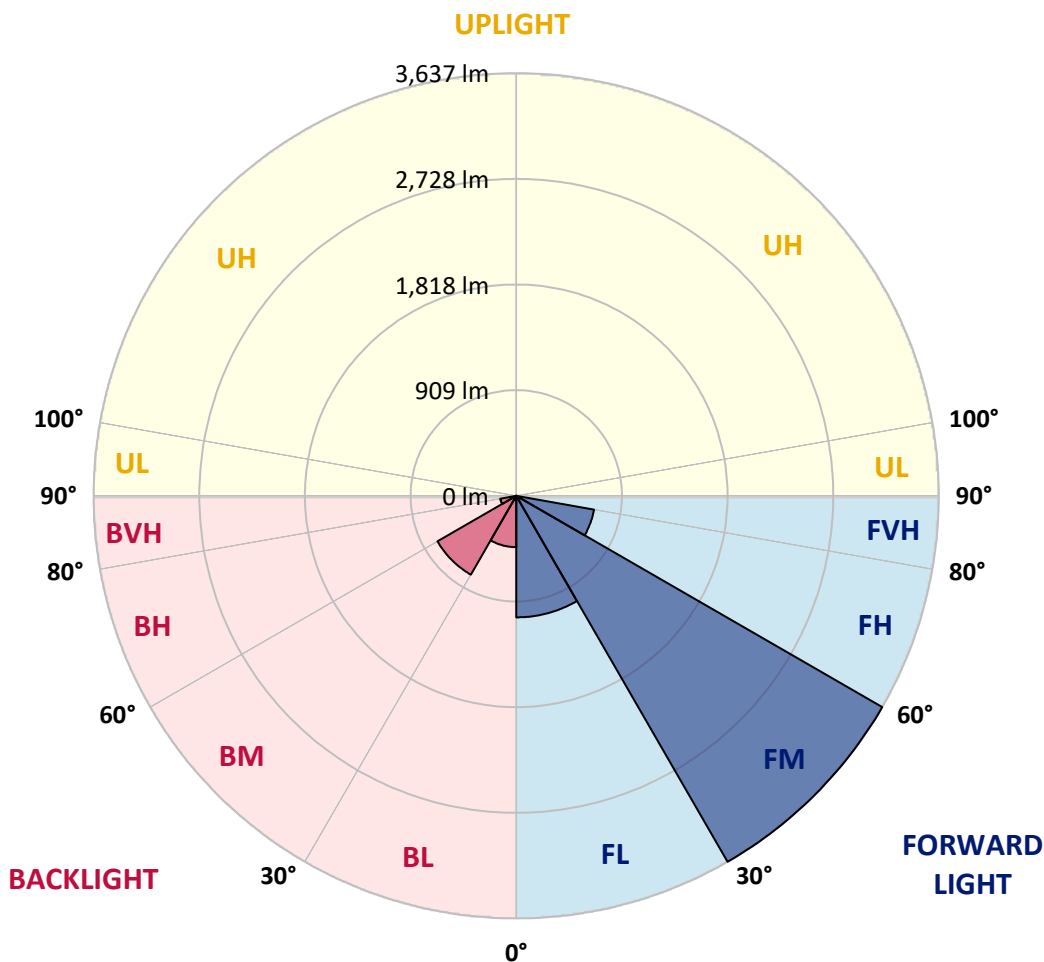


REPORT NUMBER: P647279
 CATALOG NUMBER: GALN-SA2D-835-U-SLL-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1046.0	15.5			
FM (30°-60°)	3636.9	54.0			
FH (60°-80°)	679.6	10.1			G1/1800
FVH (80°-90°)	5.3	0.1			G0/10
BL (0°-30°)	442.1	6.6	B1/500		
BM (30°-60°)	783.0	11.6	B1/1000		
BH (60°-80°)	139.8	2.1	B1/500		G1/500
BVH (80°-90°)	1.9	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-G1
 Type III Short





REPORT NUMBER: P647279

CATALOG NUMBER: GALN-SA2D-835-U-SLL-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3414.7	3414.7	3414.7	3414.7	3414.7	3414.7	3414.7	3414.7	3414.7	3414.7	3414.7
2.5°	3613.5	3624.0	3682.3	3755.2	3793.6	3881.0	3820.1	3836.0	3802.9	3686.3	3594.9
5°	3503.5	3502.2	3576.4	3756.5	3927.4	4100.9	4106.2	4013.4	3850.6	3671.7	3416.1
7.5°	3172.3	3224.0	3300.8	3588.3	3904.8	4034.6	4096.9	3988.3	3738.0	3482.3	3205.4
10°	2922.0	2948.5	3078.3	3425.3	3657.2	3830.7	3869.0	3806.8	3614.7	3295.6	2985.6
12.5°	2777.6	2790.8	2943.2	3234.6	3479.7	3608.1	3626.7	3655.8	3518.1	3218.7	2846.5
15°	2778.9	2789.5	2994.8	3238.6	3335.3	3300.8	3361.7	3360.4	3420.1	3204.1	2963.0
17.5°	2978.9	2990.9	3176.3	3296.8	3254.5	3173.7	3169.7	3230.7	3356.5	3385.6	3139.2
20°	3323.4	3351.2	3487.6	3481.0	3242.6	3079.6	3034.6	3080.9	3373.7	3539.2	3494.2
22.5°	3787.0	3825.3	3920.7	3738.0	3296.8	3016.0	3001.5	3091.5	3487.6	3882.3	3896.9
25°	4324.7	4389.7	4436.0	4201.6	3490.2	3126.0	3057.1	3212.1	3641.3	4254.5	4409.5
27.5°	4681.0	4748.6	4738.0	4402.9	3620.0	3155.1	3096.8	3241.2	3775.0	4343.3	4677.1
30°	4959.2	5000.2	5074.5	4511.5	3749.9	3237.2	3137.9	3364.4	3818.8	4496.9	5000.2
32.5°	5283.7	5311.6	5316.8	4703.6	3949.8	3340.6	3265.0	3518.1	4012.1	4644.0	5286.3
35°	5610.9	5651.9	5565.9	4940.7	4073.1	3532.7	3477.0	3784.3	4167.1	4796.3	5601.6
37.5°	5965.8	5987.1	5788.4	5038.7	4249.3	3845.2	3814.8	4071.8	4436.0	5071.8	5951.3
40°	6263.9	6283.7	6025.5	5159.2	4434.7	4282.3	4360.5	4620.1	4801.6	5250.6	6126.1
42.5°	6429.4	6475.8	6105.0	5092.9	4806.8	4777.7	5124.7	5216.2	5225.4	5300.9	6282.5
45°	6474.5	6453.3	5973.8	5147.3	5132.7	5592.3	5907.6	6028.2	5646.7	5393.7	6322.2
47.5°	6266.6	6294.4	5780.4	5099.6	5560.6	6209.6	6617.5	6841.4	5960.6	5312.9	6224.1
50°	6098.3	6062.5	5718.2	5065.1	5675.8	6501.0	7130.2	7180.5	6249.4	5412.2	6116.9
52.5°	6131.4	6154.0	5817.5	5156.5	5678.5	6518.2	7209.6	7175.2	6258.6	5389.7	6078.4
55°	6201.7	6102.3	5775.1	4955.2	5298.3	6037.4	6399.0	6346.1	5776.4	5149.9	5984.4
57.5°	5351.3	5505.0	5310.2	4424.1	4348.5	4548.6	4541.9	4704.9	4308.8	4432.0	5448.0
60°	4343.3	4369.8	4442.6	3784.3	3009.5	2940.6	2845.2	2741.8	2899.4	3789.6	4955.2
62.5°	3820.1	3788.3	4047.9	3442.5	2124.6	1778.9	1763.0	1826.6	2237.2	3614.7	4647.9
65°	2776.3	2816.1	3004.1	2671.7	1594.8	1357.7	1333.8	1521.9	1810.7	2896.9	3547.2
67.5°	1695.4	1772.2	1789.5	1647.7	1082.2	859.7	825.2	996.1	1307.4	1874.3	2079.6
70°	782.8	875.6	962.9	899.4	626.6	353.7	333.8	418.6	659.6	1078.2	1103.4
72.5°	237.1	238.4	333.8	348.4	202.6	79.5	70.2	92.7	223.9	356.3	374.8
75°	17.2	18.6	45.0	51.7	38.4	19.9	21.2	25.1	47.7	79.5	59.6
77.5°	1.3	1.3	1.3	6.7	11.9	13.2	17.2	19.9	25.1	29.1	26.5
80°	1.3	0.0	1.3	5.3	9.2	13.2	15.9	18.6	19.9	22.6	19.9
82.5°	0.0	0.0	0.0	4.0	9.2	13.2	14.6	19.9	22.6	26.5	22.6
85°	0.0	0.0	0.0	4.0	9.2	14.6	13.2	6.7	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P647279

CATALOG NUMBER: GALN-SA2D-835-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3414.7	3414.7	3414.7	3414.7	3414.7	3414.7	3414.7	3414.7	3414.7	3414.7	3414.7
2.5°	3610.8	3559.1	3441.2	3381.6	3241.2	3221.3	3083.6	3061.1	3014.7	2989.6	2928.7
5°	3303.5	3241.2	3049.2	2887.5	2699.5	2568.3	2467.7	2376.2	2323.3	2274.3	2296.8
7.5°	3053.2	2871.7	2658.4	2388.2	2170.9	2030.6	1876.9	1751.1	1676.9	1626.6	1638.5
10°	2790.8	2673.0	2376.2	2073.0	1810.7	1711.3	1590.8	1494.1	1389.5	1299.4	1257.0
12.5°	2708.8	2533.9	2161.7	1853.0	1654.4	1557.7	1420.0	1308.7	1174.9	1065.0	1026.5
15°	2723.4	2555.1	2103.5	1773.6	1539.1	1372.3	1208.0	1070.3	923.2	846.4	806.6
17.5°	2960.4	2669.0	2141.8	1690.2	1378.9	1147.1	944.5	769.6	659.6	580.1	563.0
20°	3251.8	2915.3	2224.0	1629.2	1247.7	912.7	690.1	539.1	447.7	434.5	430.5
22.5°	3678.3	3318.0	2400.1	1588.2	1087.5	711.3	472.9	392.0	366.9	364.3	365.6
25°	4274.4	3822.7	2592.2	1553.7	966.9	548.3	386.8	332.5	324.6	320.6	327.1
27.5°	4532.7	4127.3	2694.1	1479.6	857.0	494.1	381.5	329.8	307.3	300.7	304.7
30°	4851.9	4330.0	2854.4	1352.4	695.4	406.6	356.3	358.9	348.4	315.2	304.7
32.5°	5275.8	4583.1	2935.2	1262.4	621.2	336.5	261.0	239.8	267.6	272.9	282.1
35°	5547.3	4840.0	2976.3	1209.3	582.8	287.4	221.2	201.3	194.7	196.1	201.3
37.5°	6052.0	5187.1	3027.9	1153.7	553.7	250.3	200.0	181.5	172.2	172.2	177.5
40°	6354.0	5462.5	3098.2	1123.2	524.5	227.9	181.5	165.6	157.6	157.6	160.3
42.5°	6429.4	5599.0	3074.3	1112.6	491.4	222.5	165.6	153.6	144.4	143.1	141.7
45°	6564.6	5806.9	3078.3	1100.7	457.0	202.6	156.3	143.1	129.8	128.5	127.2
47.5°	6712.9	5956.6	3086.3	1054.4	423.8	169.5	162.9	132.5	116.6	113.9	113.9
50°	6585.7	6075.8	3155.1	1008.0	381.5	137.7	160.3	124.5	103.3	99.4	100.7
52.5°	6601.6	6216.2	3300.8	943.1	328.5	109.9	129.8	117.9	94.0	87.4	88.7
55°	6347.3	6067.9	3320.7	874.2	257.0	84.8	99.4	103.3	79.5	76.8	76.8
57.5°	5463.9	5138.0	2930.0	708.6	169.5	70.2	71.5	90.0	68.9	66.2	67.6
60°	4675.8	4124.7	2357.8	467.6	105.9	55.6	51.7	91.4	60.9	59.6	63.6
62.5°	4262.5	3389.6	1788.1	290.1	72.8	42.4	35.8	74.2	53.0	53.0	58.3
65°	3079.6	2277.0	1039.8	152.3	51.7	33.1	26.5	42.4	43.7	45.0	47.7
67.5°	1907.4	1149.8	438.4	74.2	34.5	22.6	17.2	26.5	29.1	29.1	31.8
70°	941.8	458.3	145.7	42.4	26.5	18.6	11.9	14.6	14.6	13.2	14.6
72.5°	291.4	137.7	37.1	26.5	18.6	11.9	6.7	5.3	2.7	0.0	1.3
75°	33.1	26.5	23.8	18.6	11.9	5.3	1.3	0.0	0.0	0.0	0.0
77.5°	19.9	22.6	22.6	18.6	11.9	4.0	0.0	0.0	0.0	0.0	0.0
80°	15.9	17.2	18.6	17.2	10.6	5.3	0.0	0.0	0.0	0.0	0.0
82.5°	19.9	22.6	25.1	22.6	14.6	6.7	2.7	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	4.0	1.3	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P647279

CATALOG NUMBER: GALN-SA2D-835-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3414.7	3414.7	3414.7	3414.7	3414.7	3414.7	3414.7	3414.7	3414.7	3414.7	3414.7
2.5°	2903.4	2874.3	2915.3	2854.4	2853.1	2854.4	2837.2	2821.3	2846.5	2914.1	2920.7
5°	2216.0	2278.3	2298.1	2363.0	2327.3	2274.3	2284.9	2249.1	2336.6	2375.0	2344.5
7.5°	1613.3	1609.4	1743.1	1751.1	1768.3	1769.7	1767.0	1696.8	1625.3	1641.2	1688.9
10°	1251.7	1184.1	1249.0	1242.5	1284.8	1272.9	1290.1	1214.7	1239.8	1239.8	1270.3
12.5°	1019.9	948.4	936.5	919.2	936.5	943.1	949.7	935.1	977.5	997.4	1018.6
15°	778.9	739.1	728.5	695.4	700.7	719.3	735.2	741.7	728.5	759.0	761.6
17.5°	565.6	564.2	570.9	569.6	564.2	560.3	559.0	541.8	536.4	539.1	549.7
20°	429.2	439.7	462.3	484.8	496.7	482.2	462.3	433.2	421.2	423.8	425.2
22.5°	366.9	382.8	413.3	438.4	450.4	423.8	388.1	362.9	357.6	356.3	355.0
25°	332.5	351.0	373.5	381.5	380.1	364.3	337.8	327.1	324.6	321.9	309.9
27.5°	313.9	320.6	324.6	333.8	337.8	327.1	320.6	304.7	302.0	302.0	294.0
30°	303.3	299.3	304.7	298.0	303.3	295.3	296.7	296.7	290.1	292.8	292.8
32.5°	282.1	283.4	283.4	270.2	274.2	264.9	274.2	282.1	283.4	284.8	295.3
35°	206.6	230.4	242.4	242.4	246.3	239.8	238.4	229.2	217.2	205.3	200.0
37.5°	181.5	190.7	206.6	215.9	222.5	217.2	205.3	190.7	184.1	178.8	173.5
40°	161.6	169.5	180.2	190.7	204.0	197.4	178.8	172.2	164.3	164.3	158.9
42.5°	145.7	149.7	156.3	172.2	186.7	173.5	160.3	155.0	151.0	149.7	148.4
45°	131.2	132.5	139.1	152.3	169.5	156.3	143.1	136.4	137.7	139.1	137.7
47.5°	117.9	120.5	124.5	140.4	151.0	144.4	129.8	125.8	125.8	125.8	127.2
50°	102.0	108.6	116.6	129.8	137.7	133.8	121.8	116.6	113.9	113.9	115.3
52.5°	91.4	96.7	107.3	123.2	133.8	127.2	115.3	107.3	102.0	100.7	103.3
55°	79.5	88.7	105.9	117.9	132.5	125.8	112.6	103.3	94.0	92.7	92.7
57.5°	71.5	86.1	102.0	116.6	128.5	123.2	112.6	100.7	88.7	87.4	87.4
60°	67.6	83.5	99.4	112.6	128.5	120.5	111.3	98.0	84.8	84.8	83.5
62.5°	63.6	78.1	94.0	107.3	123.2	116.6	107.3	94.0	80.8	80.8	78.1
65°	53.0	67.6	78.1	90.0	107.3	100.7	91.4	82.1	71.5	68.9	70.2
67.5°	37.1	46.4	56.9	68.9	79.5	76.8	72.8	66.2	56.9	55.6	54.3
70°	18.6	25.1	34.5	46.4	55.6	53.0	50.3	45.0	39.7	38.4	38.4
72.5°	2.7	7.9	14.6	21.2	29.1	30.5	29.1	27.8	26.5	25.1	26.5
75°	0.0	0.0	0.0	5.3	11.9	14.6	17.2	19.9	19.9	17.2	21.2
77.5°	0.0	0.0	0.0	0.0	1.3	6.7	13.2	17.2	21.2	18.6	25.1
80°	0.0	0.0	0.0	0.0	1.3	7.9	13.2	18.6	21.2	18.6	26.5
82.5°	0.0	0.0	0.0	0.0	1.3	9.2	13.2	17.2	19.9	18.6	23.8
85°	0.0	0.0	0.0	0.0	4.0	7.9	5.3	2.7	1.3	1.3	4.0
87.5°	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P647279

CATALOG NUMBER: GALN-SA2D-835-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3414.7	3414.7	3414.7	3414.7	3414.7	3414.7	3414.7	3414.7	3414.7	3414.7
2.5°	2957.8	3051.8	3152.5	3190.9	3310.1	3400.2	3461.1	3592.2	3612.1	3613.5
5°	2376.2	2423.9	2596.2	2677.0	2854.4	2992.2	3139.2	3351.2	3492.9	3503.5
7.5°	1688.9	1821.3	1894.2	2104.8	2323.3	2539.2	2757.7	3004.1	3168.4	3172.3
10°	1359.0	1445.1	1574.9	1732.5	1916.6	2136.6	2427.9	2714.0	2881.0	2922.0
12.5°	1094.1	1245.1	1393.4	1556.4	1696.8	1862.4	2176.3	2557.7	2695.5	2777.6
15°	842.4	980.2	1155.0	1345.7	1504.7	1725.9	2083.6	2519.3	2751.1	2778.9
17.5°	621.2	744.4	906.0	1086.2	1324.6	1638.5	2099.5	2714.0	2932.6	2978.9
20°	446.4	517.9	645.0	854.3	1157.7	1536.5	2115.4	2911.4	3243.9	3323.4
22.5°	353.7	382.8	466.3	651.7	970.9	1429.2	2227.9	3288.9	3671.7	3787.0
25°	307.3	323.2	362.9	514.0	853.0	1418.6	2408.0	3741.9	4241.3	4324.7
27.5°	296.7	299.3	333.8	471.5	789.4	1348.4	2476.9	4063.8	4596.3	4681.0
30°	312.6	355.0	357.6	398.7	671.6	1209.3	2512.7	4375.1	4897.0	4959.2
32.5°	270.2	257.0	266.2	308.7	590.8	1128.5	2580.3	4646.6	5240.0	5283.7
35°	188.1	197.4	218.5	267.6	516.5	1043.7	2597.5	4946.0	5565.9	5610.9
37.5°	173.5	178.8	196.1	227.9	454.3	996.1	2573.6	5164.5	5903.6	5965.8
40°	161.6	168.2	177.5	206.6	407.9	943.1	2540.5	5361.9	6110.2	6263.9
42.5°	152.3	157.6	165.6	197.4	368.2	890.1	2494.2	5640.0	6295.7	6429.4
45°	141.7	149.7	158.9	192.1	345.7	854.3	2459.7	5622.8	6403.0	6474.5
47.5°	131.2	144.4	155.0	178.8	339.1	837.1	2474.3	5557.9	6315.5	6266.6
50°	120.5	137.7	156.3	148.4	323.2	802.7	2491.5	5646.7	6107.6	6098.3
52.5°	111.3	131.2	145.7	121.8	287.4	769.6	2658.4	5763.2	6254.6	6131.4
55°	98.0	117.9	116.6	98.0	233.1	744.4	2789.5	5765.9	6155.3	6201.7
57.5°	88.7	104.6	91.4	82.1	172.2	622.6	2576.3	4834.7	5269.1	5351.3
60°	82.1	102.0	68.9	64.9	112.6	449.1	2249.1	3744.5	4188.3	4343.3
62.5°	75.5	96.7	54.3	53.0	78.1	319.2	1849.1	3134.0	3609.5	3820.1
65°	66.2	68.9	43.7	41.0	55.6	172.2	1125.9	2157.7	2698.1	2776.3
67.5°	54.3	53.0	35.8	33.1	37.1	83.5	496.7	1080.9	1564.4	1695.4
70°	43.7	43.7	30.5	26.5	26.5	38.4	129.8	430.5	707.3	782.8
72.5°	31.8	33.1	23.8	21.2	19.9	18.6	21.2	86.1	185.4	237.1
75°	27.8	29.1	23.8	18.6	14.6	11.9	9.2	7.9	10.6	17.2
77.5°	30.5	30.5	25.1	17.2	13.2	9.2	5.3	2.7	2.7	1.3
80°	38.4	39.7	33.1	22.6	15.9	10.6	6.7	2.7	1.3	1.3
82.5°	41.0	45.0	37.1	27.8	19.9	11.9	6.7	1.3	0.0	0.0
85°	10.6	17.2	29.1	25.1	19.9	11.9	6.7	1.3	0.0	0.0
87.5°	0.0	1.3	4.0	4.0	5.3	5.3	4.0	1.3	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

(END OF REPORT)