

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: P527951

Luminaire Tested: **GALN-SA3A-730-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527951  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3A-730-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6873 lumens  
Efficiency: N/A  
Efficacy: 73.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

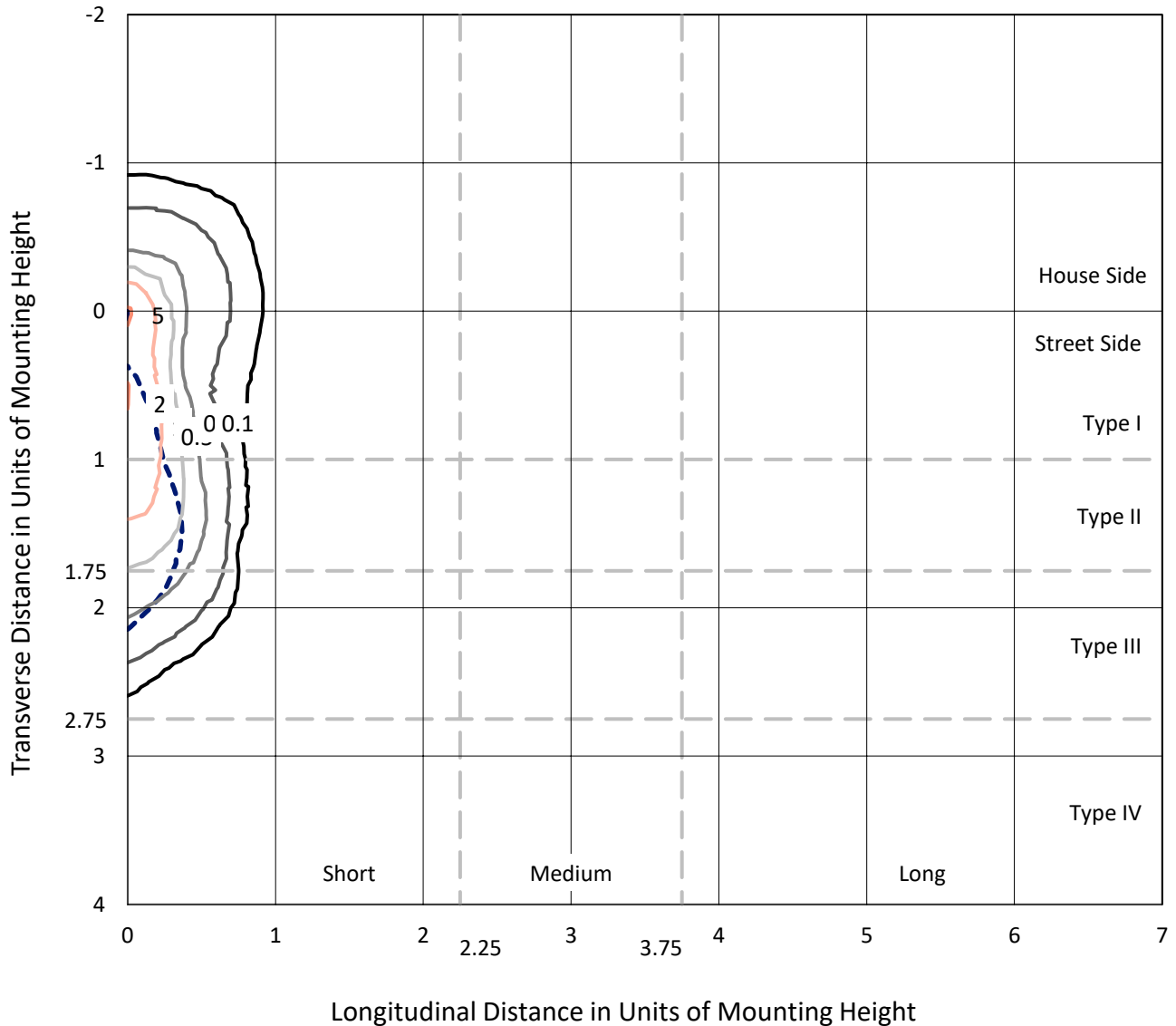
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P527951  
 CATALOG NUMBER: GALN-SA3A-730-U-SLR-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

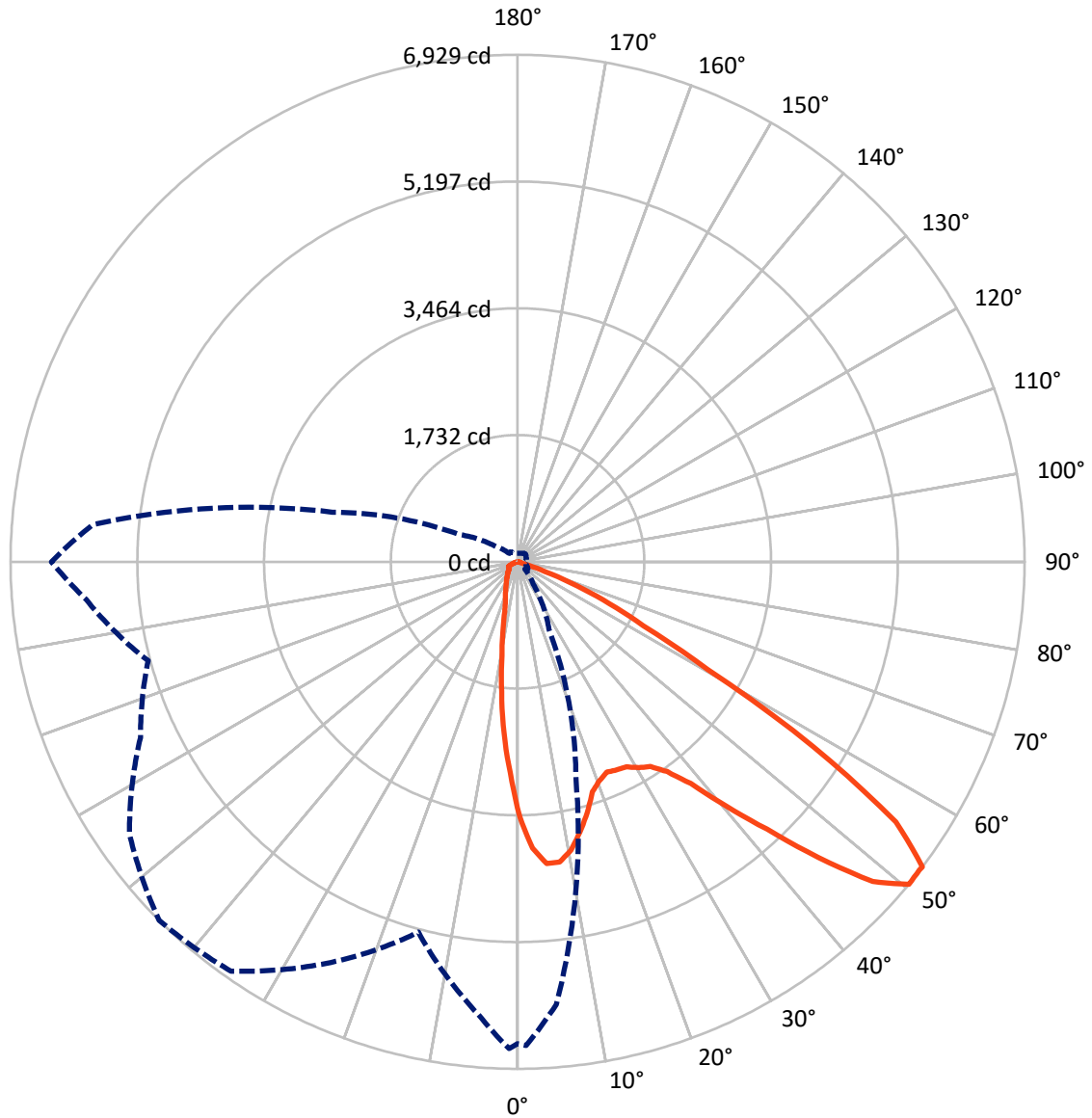
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type III - Short - N/A

REPORT NUMBER: P527951  
CATALOG NUMBER: GALN-SA3A-730-U-SLR-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P527951  
 CATALOG NUMBER: GALN-SA3A-730-U-SLR-GRSBK

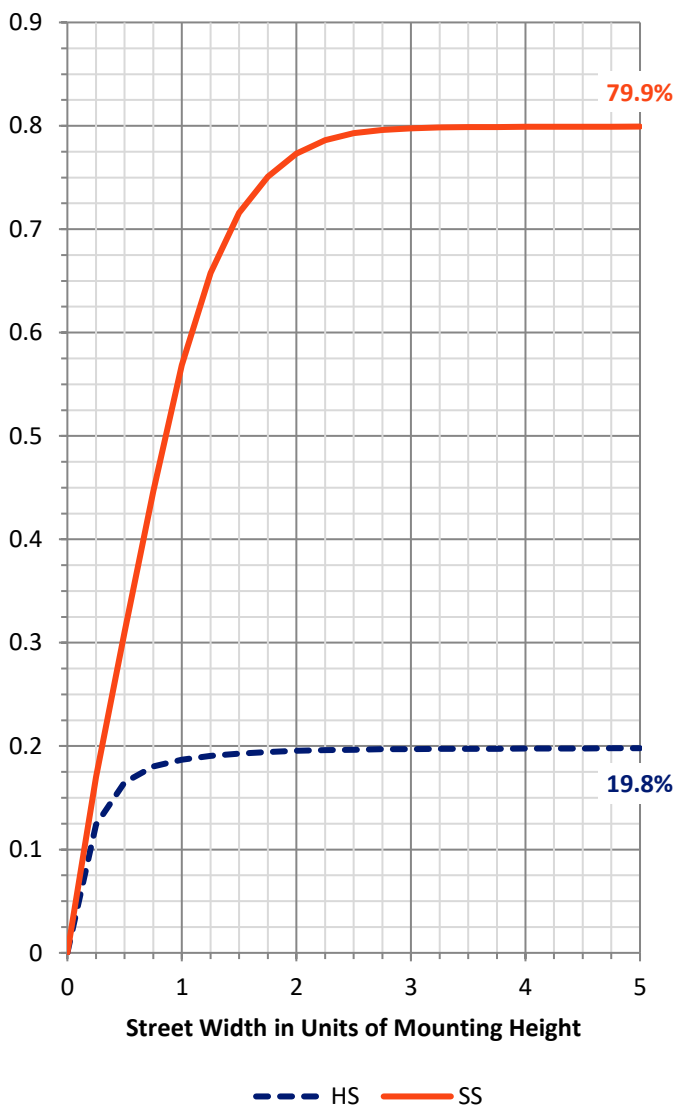
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1376.7	0.0	1376.7
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	5496.3	0.0	5496.3
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	6873.0	0.0	6873.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	254.1	3.7
10°-20°	504.9	7.3
20°-30°	758.5	11.0
30°-40°	1138.6	16.6
40°-50°	1600.2	23.3
50°-60°	1726.1	25.1
60°-70°	801.4	11.7
70°-80°	75.4	1.1
80°-90°	13.9	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°	6873.0	100.0
0°-180°	6873.0	100.0

**Coefficient of Utilization**



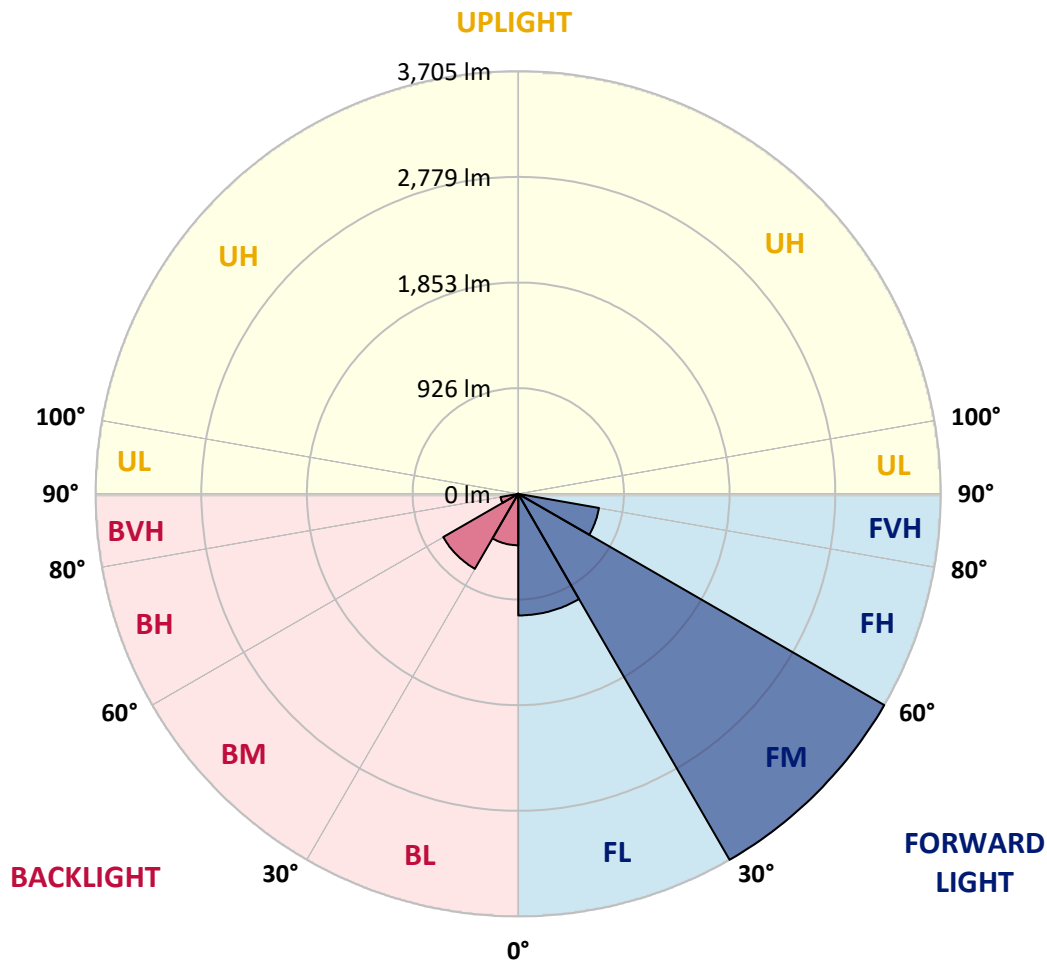
REPORT NUMBER: P527951  
 CATALOG NUMBER: GALN-SA3A-730-U-SLR-GRSBK

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1066.3	15.5			
FM (30°-60°)	3705.1	53.9			
FH (60°-80°)	718.7	10.5			G1/1800
FVH (80°-90°)	6.3	0.1			G0/10
BL (0°-30°)	451.2	6.6	B1/500		
BM (30°-60°)	759.7	11.1	B1/1000		
BH (60°-80°)	158.1	2.3	B1/500		G1/500
BVH (80°-90°)	7.6	0.1			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: P527951

CATALOG NUMBER: GALN-SA3A-730-U-SLR-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3485.5	3485.5	3485.5	3485.5	3485.5	3485.5	3485.5	3485.5	3485.5	3485.5	3485.5
2.5°	3623.2	3567.3	3496.4	3437.7	3350.5	3174.6	3126.8	3069.6	3021.8	2957.7	2867.7
5°	3294.6	3276.8	3244.1	3023.2	2863.7	2650.9	2476.4	2402.7	2305.9	2226.8	2169.6
7.5°	3043.7	2972.7	2869.1	2646.8	2391.8	2164.1	1970.5	1857.3	1729.1	1685.5	1607.7
10°	2775.0	2791.4	2638.7	2326.4	2018.2	1834.1	1714.1	1605.0	1489.1	1412.7	1302.3
12.5°	2689.1	2635.9	2518.7	2132.7	1869.6	1697.7	1551.8	1416.8	1294.1	1171.4	1065.0
15°	2745.0	2663.2	2499.6	2091.8	1755.0	1540.9	1358.2	1175.5	1062.3	905.5	795.0
17.5°	2945.5	2880.0	2660.5	2135.5	1696.4	1390.9	1119.6	931.4	758.2	616.4	560.5
20°	3279.6	3186.8	2911.4	2191.4	1609.1	1209.6	908.2	676.4	512.7	452.7	421.4
22.5°	3606.8	3556.4	3208.7	2299.1	1531.4	1048.6	681.8	455.5	383.2	372.3	351.8
25°	4230.0	4078.7	3662.8	2494.1	1471.4	897.3	514.1	366.8	324.5	316.4	319.1
27.5°	4600.9	4474.1	4082.8	2623.7	1404.6	781.4	435.0	336.8	308.2	290.5	283.6
30°	4956.9	4809.6	4291.4	2700.0	1261.4	658.6	385.9	323.2	316.4	290.5	282.3
32.5°	5230.9	5086.4	4592.8	2814.6	1202.7	579.5	317.7	252.3	234.5	231.8	256.4
35°	5650.9	5496.9	4850.5	2877.3	1157.7	538.6	275.5	225.0	204.5	196.4	197.7
37.5°	6042.3	5937.3	5089.1	2901.8	1110.0	526.4	246.8	201.8	184.1	184.1	177.3
40°	6369.6	6135.0	5315.5	2927.7	1089.6	503.2	229.1	184.1	171.8	163.6	163.6
42.5°	6519.6	6281.0	5569.1	2912.7	1084.1	466.4	229.1	169.1	159.5	151.4	150.0
45°	6486.9	6390.0	5682.3	2905.9	1084.1	429.5	208.6	165.0	151.4	140.5	137.7
47.5°	6571.4	6444.6	5824.1	2934.6	1062.3	403.6	175.9	173.2	143.2	129.5	126.8
50°	6586.4	6611.0	6070.9	3083.2	1014.6	370.9	137.7	170.5	137.7	117.3	114.5
52°	6684.6	6531.9	6145.9	3162.3	964.1	346.4	115.9	145.9	132.3	109.1	106.4
52.5°	6549.6	6649.1	6163.7	3190.9	969.6	330.0	111.8	143.2	129.5	109.1	102.3
55°	6398.2	6493.7	6091.4	3252.3	889.1	259.1	87.3	103.6	117.3	95.5	91.4
57.5°	5560.9	5657.8	5293.7	2978.2	724.1	182.7	72.3	77.7	103.6	88.6	84.5
60°	4943.2	4873.7	4442.8	2484.6	514.1	102.3	57.3	60.0	113.2	81.8	80.5
62.5°	4517.8	4369.1	3713.2	1918.6	313.6	68.2	45.0	46.4	87.3	76.4	76.4
65°	3342.3	3175.9	2466.8	1160.5	154.1	47.7	34.1	36.8	54.5	65.5	65.5
67.5°	1907.7	1843.6	1191.8	523.6	64.1	30.0	25.9	28.6	42.3	53.2	50.5
70°	876.8	786.8	458.2	110.5	30.0	20.5	20.5	23.2	34.1	39.5	36.8
72.5°	256.4	242.7	111.8	17.7	12.3	12.3	13.6	17.7	25.9	30.0	27.3
75°	19.1	12.3	8.2	5.5	5.5	8.2	10.9	17.7	25.9	28.6	23.2
77.5°	1.4	2.7	1.4	1.4	4.1	8.2	12.3	21.8	34.1	35.5	25.9
80°	1.4	1.4	0.0	1.4	4.1	8.2	13.6	24.5	38.2	40.9	21.8
82.5°	0.0	0.0	0.0	1.4	5.5	10.9	16.4	25.9	35.5	43.6	23.2
85°	0.0	0.0	0.0	1.4	8.2	15.0	19.1	6.8	4.1	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: P527951

CATALOG NUMBER: GALN-SA3A-730-U-SLR-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3485.5	3485.5	3485.5	3485.5	3485.5	3485.5	3485.5	3485.5	3485.5	3485.5	3485.5
2.5°	2931.8	2896.4	2882.7	2895.0	2890.9	2886.8	2961.8	2945.5	2942.7	2967.3	2961.8
5°	2200.9	2138.2	2310.0	2240.5	2312.7	2356.4	2364.6	2368.7	2419.1	2365.9	2435.5
7.5°	1568.2	1584.6	1583.2	1629.6	1712.7	1786.4	1830.0	1795.9	1793.2	1786.4	1756.4
10°	1253.2	1224.6	1219.1	1208.2	1234.1	1296.8	1350.0	1307.7	1277.7	1318.6	1306.4
12.5°	1024.1	984.6	962.7	919.1	920.5	962.7	962.7	962.7	992.7	1015.9	1033.6
15°	785.5	752.7	752.7	709.1	699.6	700.9	722.7	725.5	773.2	786.8	793.6
17.5°	549.5	531.8	552.3	570.0	559.1	561.8	570.0	572.7	579.5	574.1	587.7
20°	422.7	420.0	425.5	456.8	480.0	493.6	484.1	470.5	462.3	443.2	443.2
22.5°	358.6	364.1	373.6	399.5	429.5	437.7	426.8	395.5	370.9	368.2	369.5
25°	319.1	324.5	339.5	355.9	372.3	385.9	375.0	351.8	338.2	325.9	325.9
27.5°	294.5	297.3	305.5	317.7	331.4	342.3	338.2	325.9	310.9	305.5	293.2
30°	275.5	279.5	289.1	291.8	304.1	309.5	302.7	300.0	290.5	283.6	279.5
32.5°	265.9	264.5	271.4	274.1	275.5	279.5	271.4	275.5	274.1	263.2	259.1
35°	200.5	211.4	229.1	244.1	248.2	253.6	252.3	246.8	231.8	219.5	204.5
37.5°	180.0	186.8	196.4	208.6	225.0	231.8	229.1	215.5	197.7	189.5	186.8
40°	166.4	170.5	178.6	186.8	203.2	215.5	205.9	193.6	180.0	173.2	169.1
42.5°	154.1	155.5	159.5	167.7	180.0	199.1	182.7	166.4	160.9	156.8	154.1
45°	140.5	140.5	145.9	150.0	163.6	181.4	165.0	150.0	147.3	144.5	143.2
47.5°	129.5	130.9	133.6	139.1	150.0	162.3	151.4	139.1	132.3	130.9	128.2
50°	115.9	117.3	122.7	128.2	141.8	148.6	141.8	128.2	121.4	117.3	117.3
52°	105.0	109.1	114.5	125.5	135.0	145.9	137.7	122.7	114.5	110.5	107.7
52.5°	103.6	106.4	111.8	124.1	135.0	144.5	136.4	121.4	111.8	109.1	106.4
55°	92.7	96.8	106.4	121.4	133.6	144.5	133.6	120.0	106.4	99.5	96.8
57.5°	88.6	91.4	103.6	122.7	132.3	144.5	133.6	120.0	106.4	94.1	91.4
60°	84.5	90.0	103.6	118.6	130.9	145.9	135.0	118.6	103.6	88.6	88.6
62.5°	80.5	84.5	102.3	115.9	125.5	140.5	129.5	115.9	99.5	84.5	83.2
65°	69.5	76.4	90.0	96.8	107.7	121.4	110.5	100.9	87.3	75.0	73.6
67.5°	53.2	55.9	66.8	75.0	81.8	94.1	88.6	76.4	66.8	57.3	57.3
70°	36.8	39.5	47.7	51.8	58.6	65.5	61.4	51.8	45.0	39.5	38.2
72.5°	25.9	27.3	30.0	32.7	35.5	38.2	36.8	30.0	25.9	24.5	23.2
75°	20.5	23.2	24.5	23.2	21.8	20.5	20.5	17.7	15.0	13.6	13.6
77.5°	20.5	21.8	20.5	17.7	15.0	13.6	12.3	10.9	8.2	6.8	8.2
80°	17.7	17.7	17.7	15.0	13.6	12.3	10.9	9.5	8.2	6.8	6.8
82.5°	19.1	19.1	17.7	15.0	15.0	12.3	12.3	10.9	9.5	6.8	6.8
85°	0.0	0.0	0.0	2.7	6.8	12.3	12.3	10.9	9.5	8.2	8.2
87.5°	0.0	0.0	0.0	0.0	1.4	2.7	5.5	6.8	8.2	8.2	8.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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CATALOG NUMBER: GALN-SA3A-730-U-SLR-GRSBK

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3485.5	3485.5	3485.5	3485.5	3485.5	3485.5	3485.5	3485.5	3485.5	3485.5	3485.5
2.5°	3010.9	3062.7	3160.9	3259.1	3319.1	3390.0	3518.2	3586.4	3675.0	3718.7	3804.6
5°	2425.9	2548.7	2592.3	2704.1	2824.1	2944.1	3135.0	3345.0	3519.6	3639.6	3795.0
7.5°	1770.0	1798.6	1967.7	2042.7	2239.1	2457.3	2717.7	2982.3	3203.2	3399.6	3518.2
10°	1326.8	1431.8	1538.2	1681.4	1839.6	2064.6	2314.1	2605.9	2892.3	3088.7	3238.7
12.5°	1066.4	1149.6	1291.4	1445.5	1640.5	1789.1	2040.0	2329.1	2700.0	2892.3	3090.0
15°	807.3	913.6	1074.6	1234.1	1440.0	1596.8	1850.5	2214.6	2691.8	2956.4	3126.8
17.5°	598.6	670.9	815.5	994.1	1204.1	1425.0	1767.3	2202.3	2783.2	3098.2	3274.1
20°	458.2	482.7	574.1	733.6	961.4	1250.5	1632.3	2255.5	3053.2	3443.2	3621.8
22.5°	370.9	381.8	417.3	527.7	748.6	1097.7	1568.2	2292.3	3357.3	3856.4	4095.0
25°	323.2	320.5	343.6	391.4	585.0	954.6	1486.4	2431.4	3729.6	4341.8	4555.9
27.5°	294.5	294.5	305.5	339.5	485.5	861.8	1434.6	2530.9	4104.6	4768.7	4884.6
30°	279.5	282.3	313.6	324.5	403.6	751.4	1348.6	2631.8	4463.2	5041.4	5200.9
32.5°	259.1	248.2	241.4	268.6	339.5	651.8	1262.7	2674.1	4753.7	5375.5	5511.9
35°	199.1	193.6	201.8	222.3	291.8	567.3	1167.3	2721.8	5087.8	5762.8	5790.0
37.5°	180.0	178.6	184.1	201.8	245.5	493.6	1099.1	2709.6	5342.8	6083.2	6009.6
40°	166.4	166.4	170.5	185.5	219.5	441.8	1028.2	2698.7	5589.6	6443.2	6227.8
42.5°	155.5	155.5	162.3	171.8	208.6	407.7	975.0	2683.7	5796.9	6664.1	6356.0
45°	140.5	144.5	155.5	165.0	211.4	384.5	935.5	2626.4	5867.8	6661.4	6294.6
47.5°	129.5	135.0	145.9	159.5	190.9	377.7	908.2	2575.9	5843.2	6497.8	6102.3
50°	117.3	124.1	139.1	162.3	162.3	364.1	879.6	2620.9	5825.5	6371.0	5918.2
52°	109.1	114.5	133.6	158.2	141.8	335.5	861.8	2708.2	5897.8	6354.6	5836.4
52.5°	107.7	111.8	129.5	155.5	135.0	330.0	849.6	2728.7	5920.9	6313.7	5892.3
55°	95.5	100.9	118.6	121.4	110.5	271.4	810.0	2775.0	5806.4	6233.2	5839.1
57.5°	90.0	92.7	105.0	99.5	95.5	204.5	696.8	2702.7	5157.3	5536.4	5432.8
60°	83.2	85.9	98.2	77.7	80.5	143.2	523.6	2346.8	4141.4	4613.2	4800.0
62.5°	80.5	79.1	92.7	62.7	68.2	103.6	369.5	1907.7	3190.9	3797.8	4120.9
65°	70.9	69.5	66.8	53.2	58.6	80.5	220.9	1245.0	2248.7	2873.2	3050.5
67.5°	54.5	57.3	49.1	42.3	49.1	62.7	122.7	557.7	1179.6	1723.6	1866.8
70°	38.2	40.9	39.5	36.8	43.6	51.8	70.9	190.9	488.2	905.5	998.2
72.5°	23.2	28.6	30.0	31.4	38.2	45.0	50.5	61.4	129.5	320.5	398.2
75°	13.6	19.1	23.2	27.3	31.4	38.2	42.3	43.6	45.0	60.0	96.8
77.5°	9.5	13.6	20.5	25.9	31.4	38.2	45.0	47.7	45.0	42.3	45.0
80°	8.2	13.6	19.1	24.5	32.7	39.5	45.0	45.0	43.6	38.2	40.9
82.5°	8.2	13.6	20.5	25.9	31.4	38.2	43.6	45.0	40.9	38.2	39.5
85°	9.5	15.0	21.8	27.3	34.1	31.4	28.6	23.2	21.8	17.7	19.1
87.5°	9.5	13.6	13.6	15.0	16.4	16.4	16.4	15.0	12.3	10.9	10.9
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: P527951

CATALOG NUMBER: GALN-SA3A-730-U-SLR-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3485.5	3485.5	3485.5	3485.5	3485.5	3485.5	3485.5	3485.5	3485.5	3485.5
2.5°	3808.7	3917.8	3913.7	3916.4	3900.0	3789.6	3736.4	3601.4	3639.6	3623.2
5°	3954.6	4062.3	4155.0	4144.1	4018.7	3868.7	3646.4	3436.4	3379.1	3294.6
7.5°	3808.7	4067.8	4153.7	4141.4	3955.9	3763.7	3409.1	3199.1	3099.6	3043.7
10°	3576.8	3876.8	3983.2	4005.0	3879.6	3587.8	3261.8	2925.0	2871.8	2775.0
12.5°	3444.6	3662.8	3728.2	3786.8	3743.2	3525.0	3150.0	2826.8	2753.2	2689.1
15°	3336.8	3466.4	3493.7	3560.5	3586.4	3469.1	3208.7	2933.2	2751.8	2745.0
17.5°	3436.4	3383.2	3283.7	3304.1	3385.9	3470.5	3360.0	3143.2	2967.3	2945.5
20°	3601.4	3366.8	3141.8	3192.3	3260.5	3519.6	3589.1	3436.4	3335.5	3279.6
22.5°	3790.9	3395.5	3096.8	3121.4	3250.9	3630.0	3960.0	3875.5	3687.3	3606.8
25°	4141.4	3474.6	3132.3	3148.7	3325.9	3784.1	4295.5	4358.2	4246.4	4230.0
27.5°	4483.7	3679.1	3210.0	3173.2	3364.1	3934.1	4498.7	4835.5	4639.1	4600.9
30°	4658.2	3845.5	3325.9	3263.2	3522.3	4025.5	4621.4	5146.4	4974.6	4956.9
32.5°	4925.5	3996.8	3415.9	3335.5	3610.9	4138.7	4850.5	5485.9	5319.6	5230.9
35°	5037.3	4161.8	3613.7	3519.6	3864.6	4296.8	4967.8	5788.7	5736.9	5650.9
37.5°	5252.8	4339.1	3846.8	3841.4	4171.4	4502.8	5179.1	6200.5	6190.9	6042.3
40°	5270.5	4532.8	4215.0	4386.8	4645.9	4861.4	5364.6	6315.0	6470.5	6369.6
42.5°	5297.8	4872.3	4851.8	4993.7	5215.9	5169.6	5371.4	6342.3	6579.6	6519.6
45°	5310.0	5211.9	5499.6	5761.4	5854.1	5573.2	5307.3	6290.5	6636.9	6486.9
47.5°	5211.9	5503.7	6023.2	6529.1	6556.4	5821.4	5280.0	6237.3	6671.0	6571.4
50°	5225.5	5686.4	6476.0	6928.7	6829.1	6040.9	5237.8	6204.6	6653.2	6586.4
52°	5192.8	5690.5	6540.0	6920.5	6851.0	5919.6	5165.5	6079.1	6636.9	6684.6
52.5°	5229.6	5665.9	6473.2	6926.0	6836.0	5979.6	5155.9	6148.7	6646.4	6549.6
55°	5102.8	5374.1	6081.9	6274.1	6260.5	5427.3	4862.8	5918.2	6396.9	6398.2
57.5°	4611.8	4658.2	4770.0	4765.9	4703.2	4266.8	4159.1	5442.3	5702.8	5560.9
60°	4063.7	3410.5	3109.1	2986.4	2916.8	2845.9	3679.1	4978.7	5003.2	4943.2
62.5°	3511.4	2364.6	1963.6	1929.6	1945.9	2205.0	3556.4	4794.6	4647.3	4517.8
65°	2833.7	1723.6	1426.4	1381.4	1540.9	1820.5	2878.7	3676.4	3450.0	3342.3
67.5°	1779.6	1257.3	964.1	879.6	1071.8	1253.2	1891.4	2310.0	2056.4	1907.7
70°	1055.5	702.3	436.4	391.4	440.5	668.2	1059.6	1152.3	953.2	876.8
72.5°	415.9	257.7	121.4	103.6	107.7	234.5	390.0	380.5	287.7	256.4
75°	111.8	77.7	42.3	34.1	28.6	43.6	62.7	40.9	15.0	19.1
77.5°	51.8	46.4	36.8	28.6	21.8	16.4	8.2	2.7	2.7	1.4
80°	45.0	39.5	34.1	28.6	21.8	13.6	6.8	1.4	1.4	1.4
82.5°	42.3	36.8	31.4	25.9	20.5	13.6	6.8	1.4	0.0	0.0
85°	17.7	23.2	25.9	24.5	21.8	13.6	6.8	1.4	0.0	0.0
87.5°	9.5	8.2	6.8	5.5	4.1	2.7	2.7	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

(END OF REPORT)