

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: P452551

Luminaire Tested: **GALN-SA3C-730-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452551  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3C-730-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13726 lumens  
Efficiency: N/A  
Efficacy: 85.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

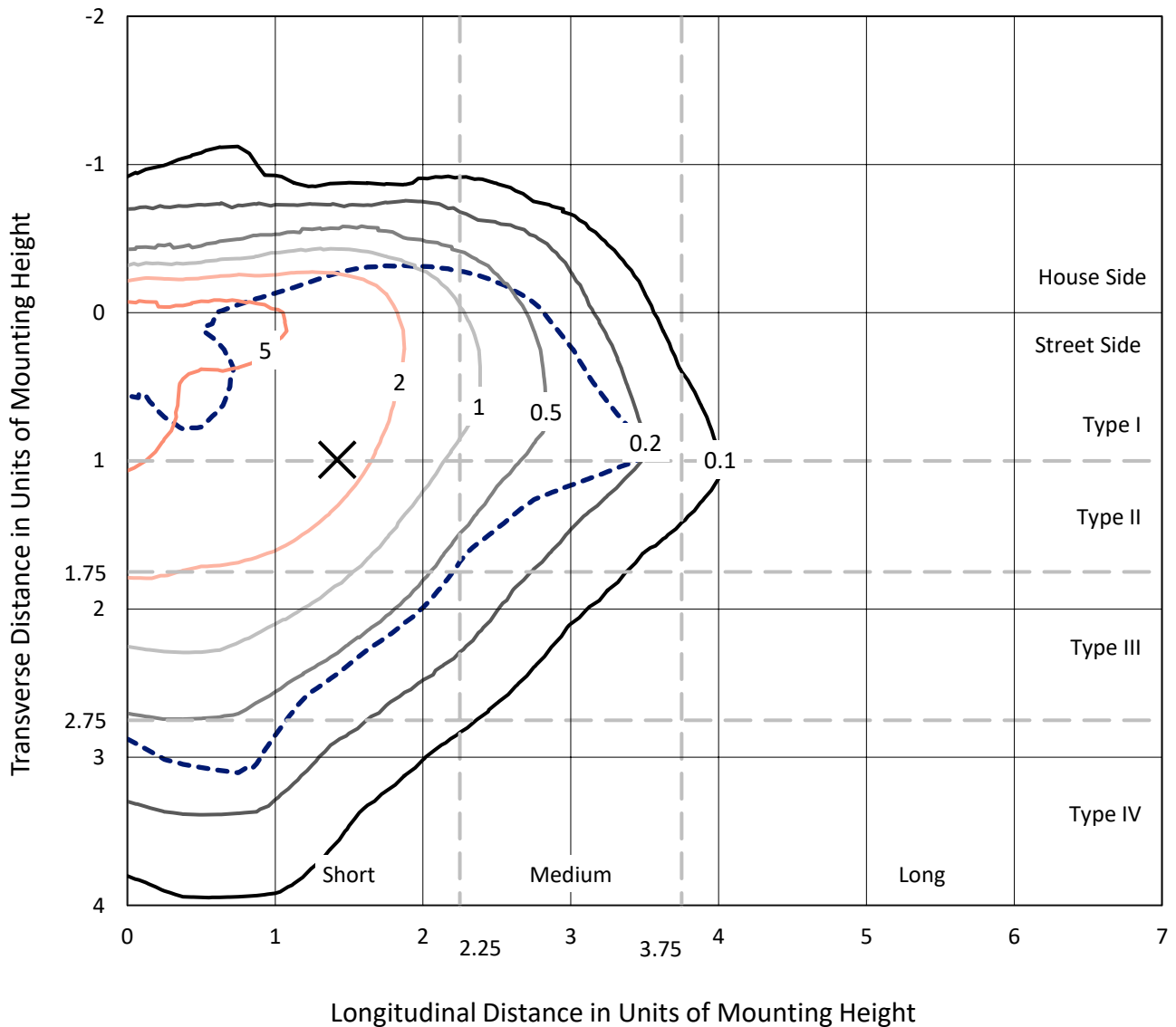
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

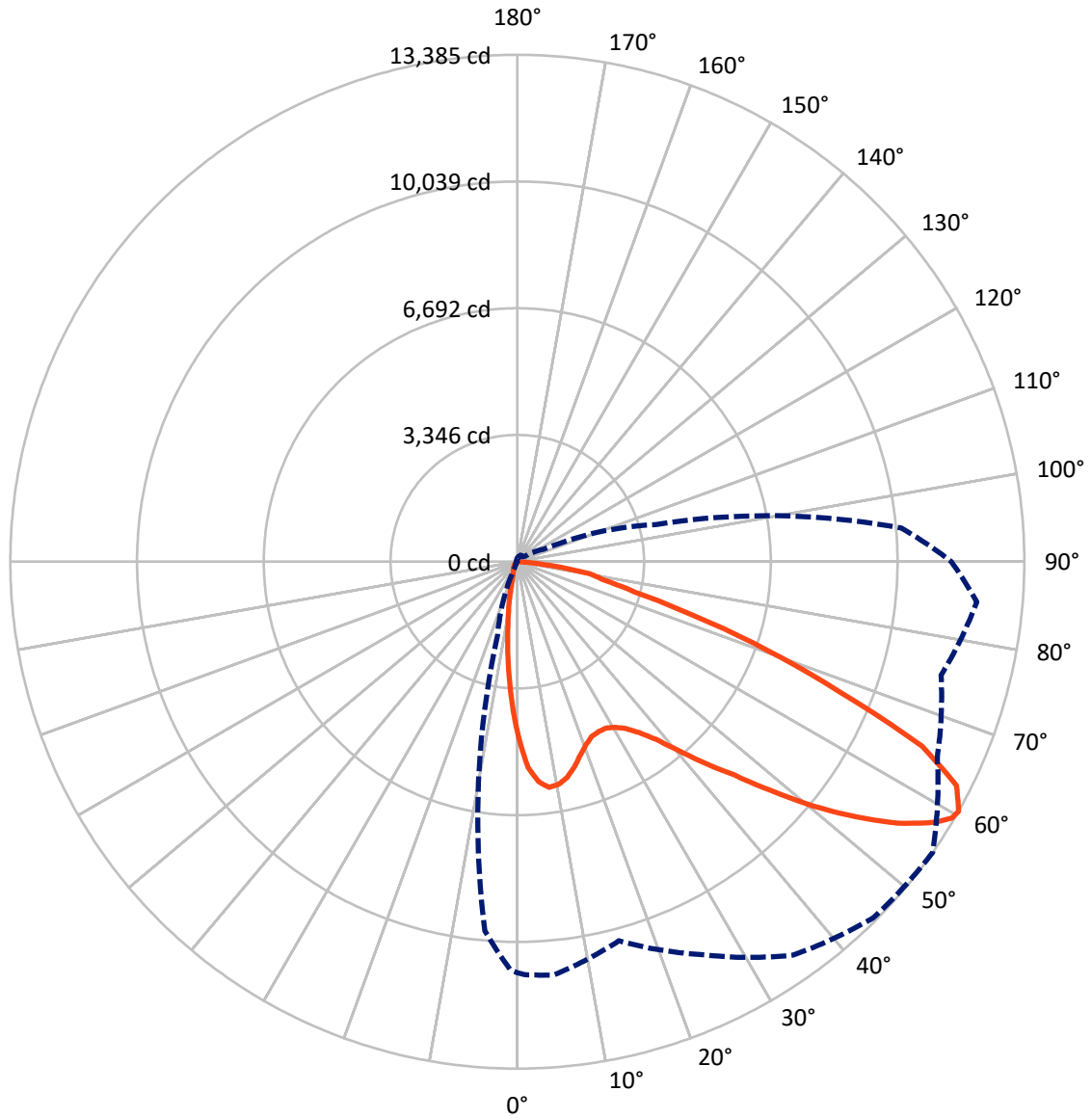
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2037.1	0.0	2037.1
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	11688.9	0.0	11688.9
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	13726.0	0.0	13726.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	344.2	2.5
10°-20°	677.7	4.9
20°-30°	1003.2	7.3
30°-40°	1495.3	10.9
40°-50°	2189.9	16.0
50°-60°	3161.6	23.0
60°-70°	3325.8	24.2
70°-80°	1368.1	10.0
80°-90°	160.2	1.2
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°	13726.0	100.0
0°-180°	13726.0	100.0

**Coefficient of Utilization**



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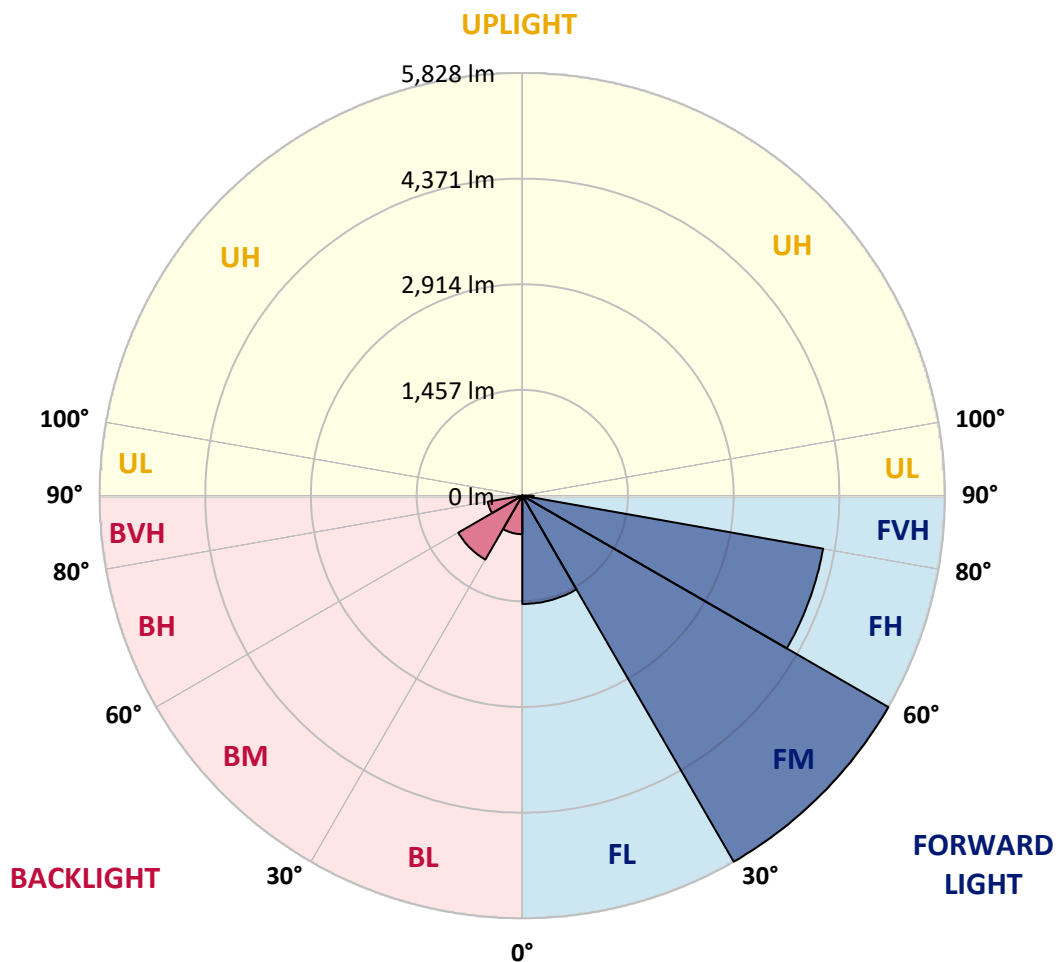
CATALOG NUMBER: GALN-SA3C-730-U-SLL-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1493.6	10.9			
FM	(30°-60°)	5828.1	42.5			
FH	(60°-80°)	4211.8	30.7			G2/5000
FVH	(80°-90°)	155.5	1.1			G2/225
BL	(0°-30°)	531.5	3.9	B2/1000		
BM	(30°-60°)	1018.7	7.4	B2/2500		
BH	(60°-80°)	482.2	3.5	B1/500		G1/500
BVH	(80°-90°)	4.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4647.6	4647.6	4647.6	4647.6	4647.6	4647.6	4647.6	4647.6	4647.6	4647.6	4647.6
2.5°	5077.6	5069.1	5144.1	5266.7	5390.3	5454.8	5442.1	5436.8	5334.3	5259.3	5101.9
5°	5067.0	5110.3	5244.5	5576.3	5827.7	5949.2	5985.1	5834.0	5634.4	5344.9	4987.8
7.5°	4763.8	4817.7	5036.4	5555.1	6002.0	6266.2	6256.6	6014.7	5602.7	5154.7	4645.5
10°	4387.7	4451.1	4707.8	5337.5	5917.5	6266.2	6285.2	5978.8	5466.4	4891.6	4356.0
12.5°	4122.5	4197.5	4481.7	5134.6	5699.9	6043.2	6065.4	5843.6	5363.9	4790.2	4198.6
15°	4032.7	4103.5	4391.9	5032.2	5468.5	5653.4	5648.1	5624.9	5323.8	4814.5	4207.0
17.5°	4186.9	4245.1	4570.5	5078.6	5251.9	5232.9	5260.4	5372.4	5332.2	5018.4	4473.3
20°	4585.3	4644.4	4994.1	5221.3	5086.0	4965.6	4978.3	5165.3	5410.4	5401.9	4889.5
22.5°	5133.6	5233.9	5550.9	5498.1	5063.9	4799.7	4773.3	5016.3	5543.5	5843.6	5451.6
25°	5827.7	5929.1	6176.4	5939.7	5172.7	4760.6	4736.3	4970.9	5705.2	6274.6	6084.4
27.5°	6410.9	6488.0	6734.2	6369.7	5333.3	4777.5	4737.4	4977.2	5836.2	6641.2	6618.0
30°	6877.9	6934.9	7079.7	6570.4	5471.7	4851.5	4805.0	5070.2	5894.3	6819.8	7050.1
32.5°	7254.0	7350.1	7395.6	6784.9	5670.3	4991.0	4911.7	5248.7	6035.8	7040.6	7503.3
35°	7684.0	7794.9	7736.8	6989.9	5932.3	5208.6	5111.4	5538.2	6250.3	7244.5	8029.5
37.5°	8229.2	8357.0	8129.8	7205.4	6209.1	5536.1	5490.7	5945.0	6575.7	7536.1	8593.6
40°	8793.3	8867.3	8511.2	7467.4	6549.3	6012.6	6055.9	6549.3	7001.5	7885.8	9193.7
42.5°	9233.9	9303.6	8903.2	7687.2	6896.9	6577.8	6758.5	7278.3	7489.6	8243.9	9641.7
45°	9570.9	9630.1	9174.7	7927.0	7366.0	7396.6	7737.9	8029.5	7978.8	8462.6	9987.2
47.5°	9832.9	9883.6	9383.9	8184.8	8068.6	8398.2	8920.1	9043.7	8485.9	8699.3	10299.9
50°	9940.7	9955.5	9449.4	8513.4	8866.2	9674.5	10218.6	10143.5	9067.0	8962.4	10632.7
52.5°	10081.2	10078.0	9636.4	8826.1	9616.4	10815.5	11358.5	11188.4	9724.1	9356.4	11006.7
55°	10449.9	10454.2	10036.8	9269.8	10255.5	11736.8	12317.8	12194.2	10417.2	10022.0	11443.1
57.5°	10897.9	10913.7	10606.3	9788.6	10866.2	12404.5	13034.2	12986.6	11354.3	10762.7	11855.1
59°	10956.0	10987.7	10875.7	10154.1	11228.6	12609.4	13279.3	13325.8	11856.2	11250.8	12078.0
60°	10850.4	10903.2	10953.9	10361.2	11440.9	12683.4	13294.1	13384.9	12233.3	11582.5	12179.4
62.5°	10389.7	10473.2	10727.8	10998.3	11706.1	12453.1	12821.8	13012.0	12700.3	12454.1	12189.0
65°	9786.4	9829.8	10197.4	11111.3	11191.6	11377.6	11491.7	11735.7	12139.3	12790.1	11752.6
67.5°	8797.6	8925.4	9375.5	10455.2	9673.4	9453.6	9425.1	9182.1	10230.2	11989.3	10677.1
70°	7267.7	7324.8	7879.4	8571.5	7300.5	6962.4	7097.6	7006.8	7930.2	10321.0	8593.6
72.5°	5496.0	5624.9	6166.8	6832.4	4967.7	4529.3	4902.2	4868.4	5956.6	8294.7	5903.8
75°	3910.1	3993.6	4684.6	5347.0	3479.1	2947.7	3081.8	3207.6	4158.4	6549.3	3488.6
77.5°	2686.7	2758.5	3277.3	3536.1	2537.7	2431.0	2224.0	2345.5	2724.7	3885.8	1898.5
80°	1620.7	1617.5	1958.8	2022.2	1767.5	2052.8	1722.1	1933.4	1647.1	1662.9	735.3
82.5°	1052.3	1041.7	1198.1	1305.8	983.6	1034.3	694.1	1000.5	1073.4	463.8	232.4
85°	471.2	491.3	575.8	759.6	431.1	229.3	141.6	307.4	457.5	233.5	0.0
87.5°	48.6	38.0	101.4	184.9	59.2	6.3	21.1	10.6	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4647.6	4647.6	4647.6	4647.6	4647.6	4647.6	4647.6	4647.6	4647.6	4647.6	4647.6
2.5°	5029.0	4967.7	4784.9	4613.8	4466.9	4287.3	4171.1	3988.3	3877.4	3843.6	3848.9
5°	4827.2	4650.8	4303.2	4025.3	3715.7	3539.3	3271.0	3013.2	2873.7	2821.9	2798.7
7.5°	4404.6	4215.5	3796.0	3359.7	3028.0	2718.4	2518.7	2291.6	2136.3	2008.4	1986.2
10°	4090.8	3842.5	3322.7	2853.6	2591.6	2359.2	2159.5	1932.4	1749.6	1603.8	1563.6
12.5°	3902.7	3624.9	3044.9	2651.8	2403.6	2164.8	1904.9	1641.8	1454.8	1297.4	1224.5
15°	3868.9	3546.7	2966.7	2507.1	2200.7	1912.3	1566.8	1282.6	1090.3	941.4	895.9
17.5°	4072.8	3687.2	2955.1	2356.0	1935.5	1526.7	1167.4	931.8	715.3	631.8	599.0
20°	4436.3	3935.5	2954.0	2180.6	1662.9	1175.9	819.9	607.5	519.8	479.7	460.6
22.5°	4931.8	4273.6	3010.0	2029.6	1379.8	867.4	585.3	483.9	433.2	400.4	393.0
25°	5537.2	4774.4	3147.3	1927.1	1163.2	680.4	482.8	414.2	371.9	357.1	350.8
27.5°	6074.9	5254.0	3298.4	1821.4	1007.9	602.2	448.0	379.3	345.5	333.9	324.3
30°	6538.7	5689.3	3371.3	1682.0	883.2	551.5	454.3	405.7	361.3	326.5	310.6
32.5°	6925.4	6023.2	3418.9	1555.2	777.6	451.1	359.2	313.8	293.7	281.0	270.5
35°	7409.3	6384.5	3390.3	1483.3	723.7	411.0	327.5	270.5	236.7	211.3	200.7
37.5°	7916.4	6745.8	3340.7	1424.2	699.4	381.4	311.7	256.7	219.8	193.3	179.6
40°	8441.5	7080.7	3282.6	1369.2	677.2	362.4	302.2	245.1	208.1	179.6	164.8
42.5°	8922.2	7407.2	3259.3	1333.3	641.3	365.6	294.8	239.8	196.5	166.9	154.3
45°	9311.0	7716.7	3291.0	1314.3	602.2	360.3	296.9	233.5	187.0	158.5	145.8
47.5°	9726.2	8154.1	3393.5	1295.3	564.2	334.9	312.7	232.4	182.8	153.2	139.5
50°	10209.1	8714.1	3628.1	1248.8	517.7	307.4	332.8	231.4	177.5	146.9	133.1
52.5°	10852.5	9350.1	3870.0	1167.4	450.1	281.0	318.0	228.2	166.9	139.5	125.7
55°	11430.4	10019.9	4075.0	1071.3	364.5	243.0	286.3	214.5	149.0	126.8	114.1
57.5°	11669.1	10398.2	4068.6	938.2	291.6	213.4	235.6	196.5	130.0	112.0	101.4
59°	11581.5	10350.6	3932.3	839.9	266.2	197.6	195.5	194.4	121.5	101.4	93.0
60°	11457.8	10177.4	3785.5	791.3	250.4	187.0	179.6	192.3	114.1	95.1	86.6
62.5°	10984.5	9458.9	3298.4	708.9	229.3	158.5	143.7	162.7	101.4	82.4	75.0
65°	10298.9	8354.9	2792.4	685.7	222.9	131.0	119.4	116.2	86.6	69.7	63.4
67.5°	8961.3	7070.2	2262.0	669.8	225.0	109.9	104.6	87.7	71.8	58.1	53.9
70°	7174.8	5512.9	1852.1	651.9	227.1	89.8	87.7	69.7	58.1	48.6	44.4
72.5°	4359.2	3267.8	1458.0	566.3	220.8	71.8	78.2	52.8	42.3	34.9	32.8
75°	2695.2	2236.6	904.4	440.6	145.8	52.8	54.9	32.8	28.5	22.2	22.2
77.5°	1561.5	1412.6	323.3	158.5	64.4	31.7	24.3	16.9	15.8	9.5	9.5
80°	647.6	518.7	112.0	53.9	34.9	14.8	5.3	1.1	0.0	0.0	0.0
82.5°	189.1	168.0	30.6	24.3	10.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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





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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4647.6	4647.6	4647.6	4647.6	4647.6	4647.6	4647.6	4647.6	4647.6	4647.6	4647.6
2.5°	3759.1	3724.2	3708.3	3762.2	3712.6	3776.0	3727.4	3748.5	3810.8	3838.3	3909.1
5°	2813.5	2777.6	2760.7	2842.0	2837.8	2877.9	2873.7	2910.7	2942.4	2871.6	2944.5
7.5°	1959.8	1935.5	1975.7	2039.1	2106.7	2084.5	2084.5	2034.8	2051.7	2041.2	2038.0
10°	1490.7	1407.3	1386.1	1384.0	1409.4	1414.7	1386.1	1317.5	1342.8	1350.2	1394.6
12.5°	1172.7	1108.3	1010.0	965.6	954.0	963.5	869.5	809.3	837.8	820.9	864.2
15°	841.0	788.2	730.0	680.4	666.7	647.6	545.2	473.3	464.9	468.0	475.4
17.5°	600.1	564.2	564.2	511.4	482.8	425.8	374.0	342.3	339.1	342.3	347.6
20°	442.7	423.7	421.5	407.8	376.1	338.1	302.2	295.8	293.7	299.0	301.1
22.5°	381.4	361.3	344.4	343.4	313.8	282.1	265.2	256.7	257.8	259.9	265.2
25°	341.3	320.1	302.2	291.6	270.5	248.3	232.4	228.2	228.2	231.4	232.4
27.5°	312.7	286.3	270.5	255.7	236.7	217.6	203.9	200.7	198.6	200.7	206.0
30°	292.7	266.2	246.2	224.0	209.2	191.2	179.6	175.4	174.3	175.4	179.6
32.5°	250.4	234.5	218.7	198.6	180.7	169.0	156.4	149.0	149.0	151.1	155.3
35°	189.1	180.7	179.6	174.3	159.5	146.9	132.1	124.7	124.7	128.9	131.0
37.5°	166.9	151.1	149.0	146.9	140.5	123.6	109.9	103.5	102.5	105.7	109.9
40°	152.1	134.2	124.7	122.6	123.6	104.6	89.8	83.5	83.5	84.5	88.7
42.5°	140.5	119.4	102.5	100.4	104.6	87.7	72.9	66.6	66.6	66.6	71.8
45°	131.0	106.7	86.6	76.1	82.4	71.8	59.2	52.8	50.7	52.8	54.9
47.5°	124.7	97.2	76.1	61.3	61.3	57.1	47.5	40.1	38.0	39.1	42.3
50°	119.4	88.7	64.4	49.7	44.4	45.4	35.9	30.6	28.5	28.5	31.7
52.5°	110.9	80.3	56.0	42.3	33.8	30.6	26.4	22.2	21.1	22.2	24.3
55°	100.4	72.9	48.6	34.9	26.4	21.1	19.0	15.8	14.8	15.8	19.0
57.5°	88.7	61.3	39.1	27.5	18.0	13.7	12.7	10.6	8.5	9.5	11.6
59°	81.4	54.9	33.8	22.2	13.7	9.5	9.5	7.4	5.3	6.3	9.5
60°	78.2	50.7	28.5	19.0	11.6	7.4	7.4	5.3	3.2	4.2	7.4
62.5°	66.6	42.3	22.2	11.6	5.3	1.1	3.2	1.1	0.0	1.1	3.2
65°	56.0	33.8	14.8	5.3	0.0	0.0	0.0	0.0	0.0	0.0	1.1
67.5°	46.5	25.4	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	37.0	16.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	25.4	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	15.8	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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: P452551

CATALOG NUMBER: GALN-SA3C-730-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4647.6	4647.6	4647.6	4647.6	4647.6	4647.6	4647.6	4647.6	4647.6	4647.6
2.5°	3913.3	4064.4	4157.4	4332.7	4512.4	4650.8	4824.0	4979.3	5043.8	5077.6
5°	3018.4	3228.7	3407.2	3674.5	3922.8	4225.0	4531.4	4892.7	5031.1	5067.0
7.5°	2118.3	2332.8	2519.8	2829.3	3183.3	3587.9	4046.4	4505.0	4706.8	4763.8
10°	1529.8	1759.1	1987.3	2296.9	2627.5	3066.0	3543.5	4110.9	4343.3	4387.7
12.5°	965.6	1211.8	1582.7	1965.1	2314.8	2667.7	3167.4	3784.4	4041.1	4122.5
15°	560.0	743.8	1023.8	1522.4	1967.2	2434.2	2979.4	3661.9	3949.2	4032.7
17.5°	375.1	438.5	630.7	1012.1	1599.6	2218.7	2931.8	3762.2	4080.2	4186.9
20°	315.9	344.4	412.0	617.0	1231.9	2026.4	2944.5	4034.8	4452.1	4585.3
22.5°	277.9	304.3	347.6	443.7	860.0	1787.6	3004.7	4424.7	4963.5	5133.6
25°	245.1	271.5	309.6	367.7	577.9	1511.9	3136.8	4995.2	5640.7	5827.7
27.5°	217.6	241.9	274.7	324.3	444.8	1204.4	3254.0	5550.9	6258.8	6410.9
30°	192.3	212.4	244.1	282.1	369.8	928.7	3313.2	6036.9	6708.8	6877.9
32.5°	166.9	185.9	216.6	247.2	304.3	707.9	3272.0	6394.0	7146.2	7254.0
35°	142.6	162.7	188.1	216.6	263.1	571.6	3066.0	6795.5	7599.5	7684.0
37.5°	122.6	139.5	165.9	188.1	237.7	457.5	2816.7	7156.8	8107.7	8229.2
40°	103.5	120.4	146.9	166.9	218.7	360.3	2591.6	7558.3	8643.3	8793.3
42.5°	84.5	104.6	127.8	160.6	188.1	274.7	2319.0	7883.7	9045.8	9233.9
45°	67.6	89.8	115.2	159.5	163.8	209.2	2056.0	8137.2	9401.9	9570.9
47.5°	53.9	76.1	110.9	149.0	134.2	165.9	1905.9	8402.4	9697.7	9832.9
50°	43.3	63.4	116.2	131.0	112.0	140.5	1901.7	8698.2	9850.9	9940.7
52.5°	34.9	51.8	98.3	100.4	95.1	123.6	2015.8	9031.0	10007.3	10081.2
55°	29.6	43.3	64.4	74.0	85.6	112.0	2101.4	9543.5	10380.2	10449.9
57.5°	23.2	37.0	49.7	59.2	76.1	102.5	2113.0	9938.6	10852.5	10897.9
59°	20.1	31.7	44.4	52.8	69.7	96.1	2065.5	9962.9	10883.1	10956.0
60°	16.9	28.5	39.1	49.7	64.4	90.9	2013.7	9786.4	10769.0	10850.4
62.5°	12.7	22.2	28.5	40.1	52.8	78.2	1768.6	9170.5	10332.7	10389.7
65°	8.5	15.8	21.1	29.6	41.2	67.6	1441.1	8371.8	9658.6	9786.4
67.5°	5.3	11.6	16.9	22.2	33.8	57.1	1026.9	7179.0	8715.1	8797.6
70°	3.2	7.4	12.7	18.0	26.4	45.4	609.6	5674.5	7250.8	7267.7
72.5°	2.1	5.3	8.5	12.7	21.1	41.2	295.8	3698.8	5294.2	5496.0
75°	1.1	3.2	5.3	9.5	16.9	33.8	141.6	2471.2	3852.0	3910.1
77.5°	0.0	1.1	3.2	6.3	12.7	26.4	82.4	1622.8	2626.5	2686.7
80°	0.0	0.0	2.1	5.3	9.5	16.9	49.7	957.2	1591.1	1620.7
82.5°	0.0	0.0	1.1	4.2	6.3	12.7	25.4	420.5	1041.7	1052.3
85°	0.0	0.0	1.1	4.2	5.3	8.5	9.5	57.1	462.8	471.2
87.5°	0.0	0.0	1.1	5.3	5.3	5.3	5.3	3.2	39.1	48.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)