

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: P451623

Luminaire Tested: **GALN-SA2C-730-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451623  
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-SA2C-730-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 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: 9247 lumens  
Efficiency: N/A  
Efficacy: 85.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

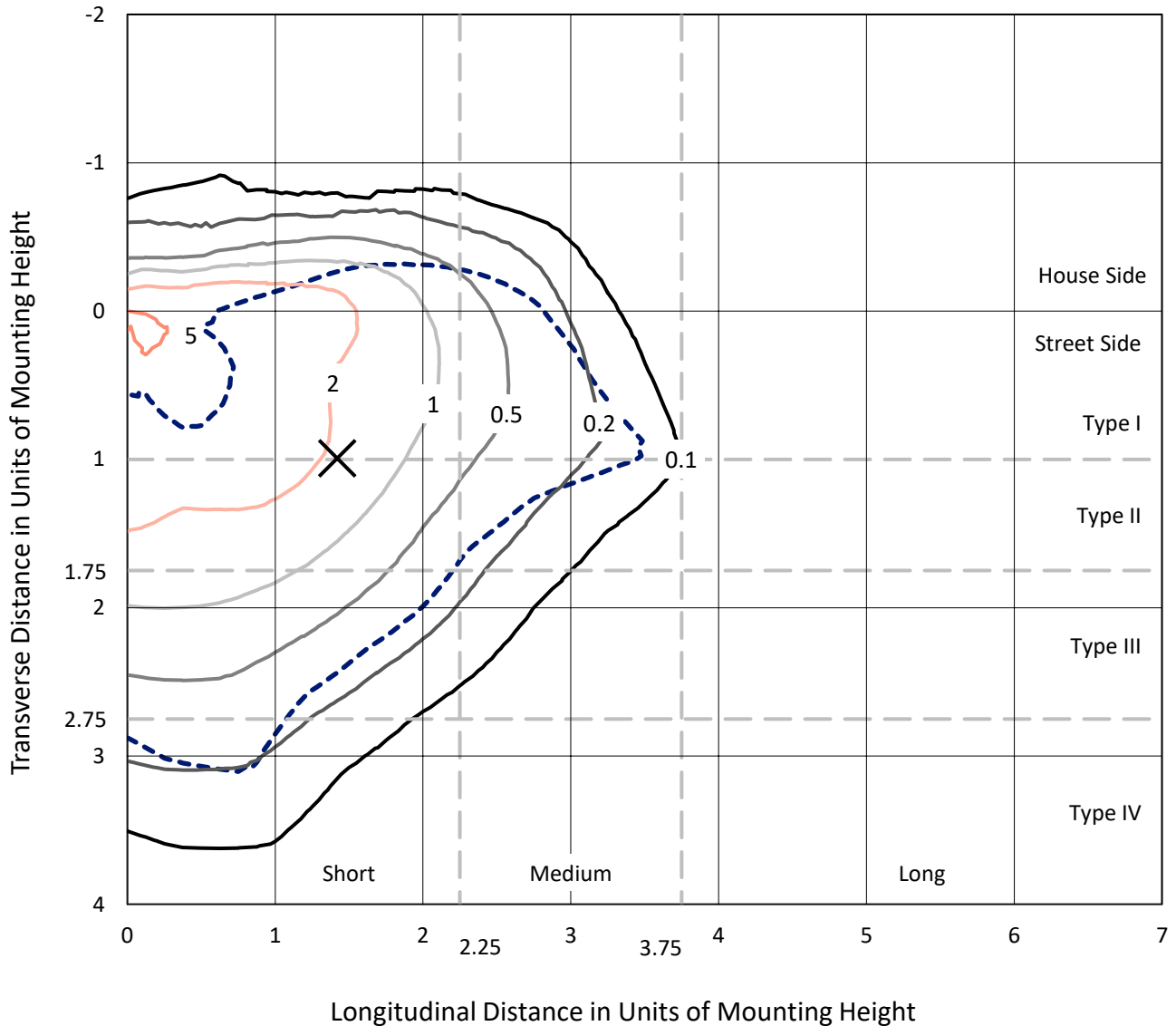
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P451623  
 CATALOG NUMBER: GALN-SA2C-730-U-SLL-HSS

### Iso-Footcandle Lines of Horizontal Illumination

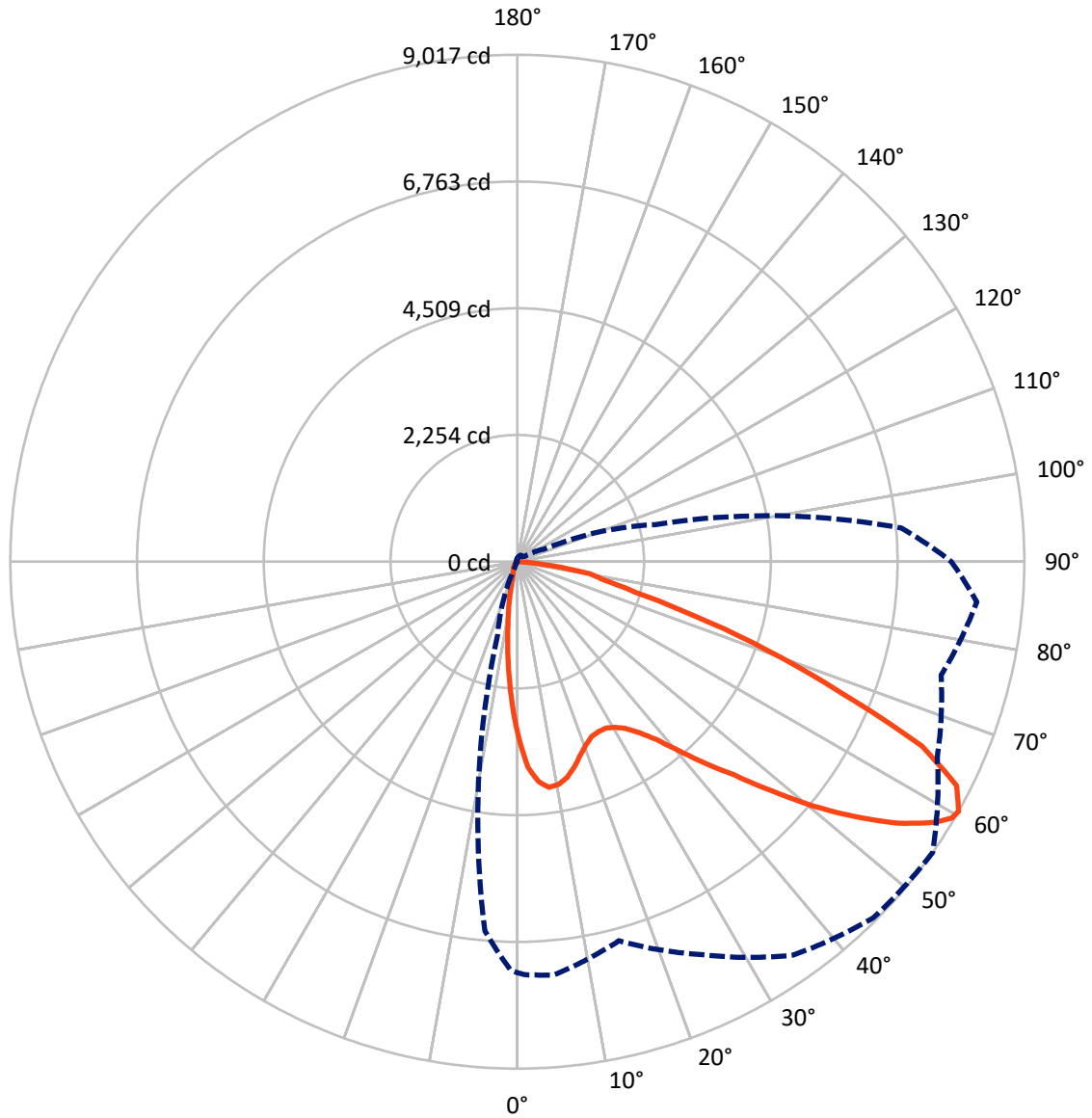
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc  
 Type III - Short - N/A

REPORT NUMBER: P451623  
CATALOG NUMBER: GALN-SA2C-730-U-SLL-HSS

### Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: GALN-SA2C-730-U-SLL-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1372.3	0.0	1372.3
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	7874.7	0.0	7874.7
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	9247.0	0.0	9247.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	231.9	2.5
10°-20°	456.6	4.9
20°-30°	675.8	7.3
30°-40°	1007.4	10.9
40°-50°	1475.3	16.0
50°-60°	2129.9	23.0
60°-70°	2240.5	24.2
70°-80°	921.7	10.0
80°-90°	107.9	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°	9247.0	100.0
0°-180°	9247.0	100.0

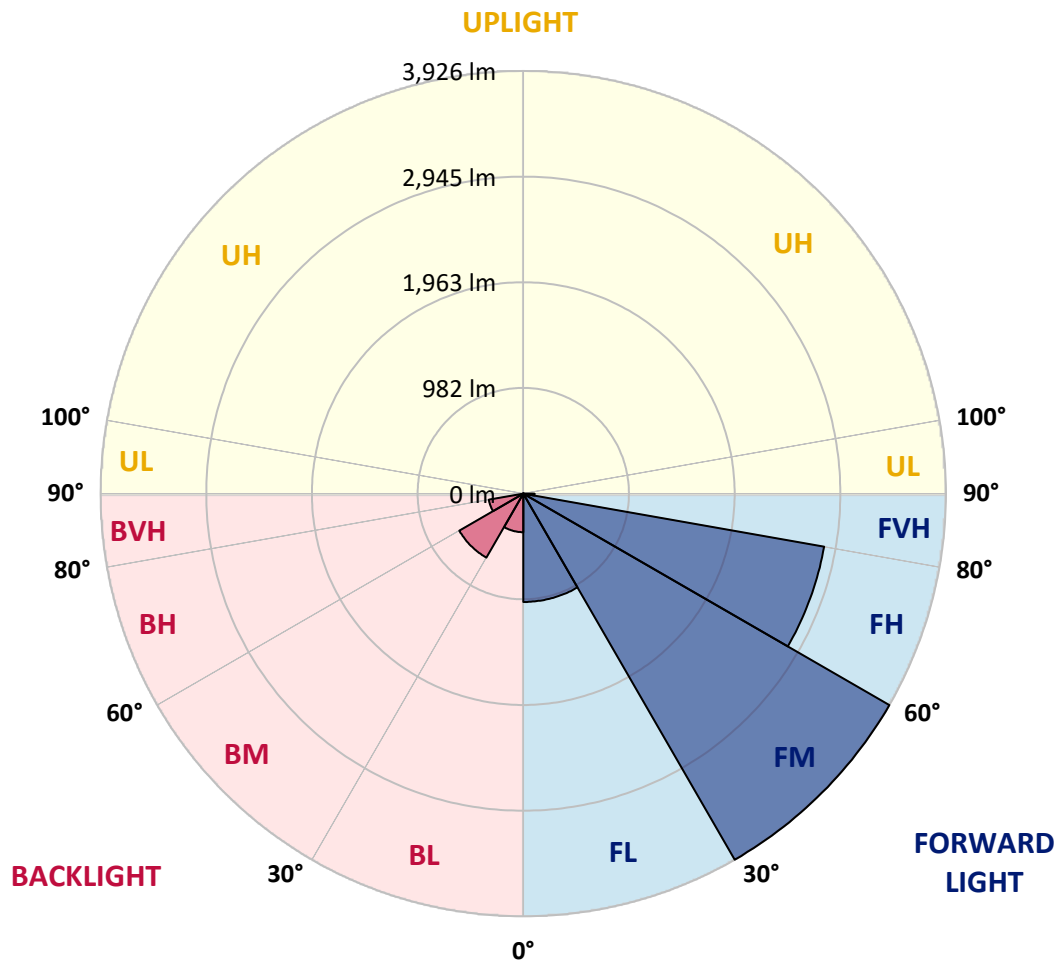


REPORT NUMBER: P451623  
 CATALOG NUMBER: GALN-SA2C-730-U-SLL-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1006.2	10.9			
FM (30°-60°)	3926.3	42.5			
FH (60°-80°)	2837.4	30.7			G2/5000
FVH (80°-90°)	104.8	1.1			G2/225
BL (0°-30°)	358.0	3.9	B1/500		
BM (30°-60°)	686.3	7.4	B1/1000		
BH (60°-80°)	324.8	3.5	B1/500		G1/500
BVH (80°-90°)	3.2	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 III Short





REPORT NUMBER: P451623

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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3131.0	3131.0	3131.0	3131.0	3131.0	3131.0	3131.0	3131.0	3131.0	3131.0	3131.0
2.5°	3420.7	3415.0	3465.5	3548.1	3631.4	3674.8	3666.2	3662.7	3593.6	3543.1	3437.1
5°	3413.6	3442.8	3533.1	3756.6	3926.0	4007.9	4032.1	3930.3	3795.8	3600.8	3360.2
7.5°	3209.3	3245.6	3392.9	3742.4	4043.5	4221.4	4215.0	4052.0	3774.4	3472.7	3129.6
10°	2955.9	2998.6	3171.6	3595.8	3986.5	4221.4	4234.2	4027.8	3682.6	3295.4	2934.6
12.5°	2777.3	2827.8	3019.3	3459.1	3839.9	4071.2	4086.2	3936.7	3613.6	3227.1	2828.5
15°	2716.8	2764.5	2958.8	3390.1	3684.0	3808.6	3805.0	3789.4	3586.5	3243.5	2834.2
17.5°	2820.7	2859.8	3079.1	3421.4	3538.1	3525.3	3543.8	3619.3	3592.2	3380.8	3013.6
20°	3089.0	3128.9	3364.5	3517.5	3426.4	3345.2	3353.8	3479.8	3644.9	3639.2	3294.0
22.5°	3458.4	3526.0	3739.6	3704.0	3411.4	3233.5	3215.7	3379.4	3734.6	3936.7	3672.7
25°	3926.0	3994.4	4160.9	4001.5	3484.8	3207.2	3190.8	3348.8	3843.5	4227.1	4099.0
27.5°	4318.9	4370.9	4536.7	4291.2	3592.9	3218.6	3191.5	3353.1	3931.7	4474.1	4458.4
30°	4633.5	4672.0	4769.5	4426.4	3686.2	3268.4	3237.1	3415.7	3970.9	4594.4	4749.5
32.5°	4886.9	4951.7	4982.3	4570.9	3820.0	3362.3	3308.9	3536.0	4066.3	4743.1	5054.9
35°	5176.6	5251.3	5212.2	4709.0	3996.5	3509.0	3443.5	3731.0	4210.7	4880.5	5409.3
37.5°	5543.9	5630.0	5477.0	4854.2	4183.0	3729.6	3699.0	4005.0	4430.0	5076.9	5789.4
40°	5923.9	5973.8	5733.9	5030.7	4412.2	4050.6	4079.8	4412.2	4716.8	5312.5	6193.7
42.5°	6220.7	6267.7	5998.0	5178.7	4646.3	4431.4	4553.1	4903.3	5045.6	5553.8	6495.5
45°	6447.8	6487.6	6180.9	5340.3	4962.4	4983.0	5212.9	5409.3	5375.2	5701.2	6728.2
47.5°	6624.3	6658.5	6321.8	5514.0	5435.7	5657.7	6009.3	6092.6	5716.8	5860.6	6938.9
50°	6696.9	6706.9	6365.9	5735.3	5973.0	6517.5	6884.1	6833.6	6108.3	6037.8	7163.1
52.5°	6791.6	6789.4	6491.9	5946.0	6478.4	7286.2	7652.1	7537.5	6551.0	6303.3	7415.1
55°	7040.0	7042.8	6761.7	6244.9	6909.0	7906.9	8298.3	8215.1	7017.9	6751.7	7709.0
57.5°	7341.7	7352.4	7145.3	6594.4	7320.4	8356.7	8780.9	8748.9	7649.2	7250.6	7986.6
59°	7380.9	7402.2	7326.8	6840.7	7564.5	8494.8	8946.0	8977.4	7987.3	7579.5	8136.8
60°	7309.7	7345.3	7379.5	6980.2	7707.6	8544.6	8956.0	9017.2	8241.4	7803.0	8205.1
62.5°	6999.4	7055.6	7227.2	7409.4	7886.2	8389.5	8637.9	8766.0	8556.0	8390.2	8211.5
65°	6593.0	6622.2	6869.9	7485.5	7539.6	7664.9	7741.8	7906.2	8178.1	8616.5	7917.6
67.5°	5926.8	6012.9	6316.1	7043.5	6516.8	6368.8	6349.6	6185.9	6891.9	8077.0	7193.0
70°	4896.2	4934.6	5308.3	5774.5	4918.2	4690.5	4781.6	4720.4	5342.4	6953.1	5789.4
72.5°	3702.5	3789.4	4154.5	4602.9	3346.7	3051.3	3302.5	3279.8	4012.9	5588.0	3977.3
75°	2634.2	2690.4	3155.9	3602.2	2343.8	1985.8	2076.2	2160.9	2801.5	4412.2	2350.2
77.5°	1810.0	1858.4	2207.9	2382.2	1709.6	1637.7	1498.2	1580.1	1835.6	2617.8	1279.0
80°	1091.8	1089.7	1319.6	1362.3	1190.8	1382.9	1160.2	1302.5	1109.6	1120.3	495.4
82.5°	708.9	701.8	807.1	879.7	662.6	696.8	467.6	674.0	723.1	312.5	156.6
85°	317.4	331.0	387.9	511.8	290.4	154.5	95.4	207.1	308.2	157.3	0.0
87.5°	32.7	25.6	68.3	124.6	39.9	4.3	14.2	7.1	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: P451623

CATALOG NUMBER: GALN-SA2C-730-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3131.0	3131.0	3131.0	3131.0	3131.0	3131.0	3131.0	3131.0	3131.0	3131.0	3131.0
2.5°	3388.0	3346.7	3223.5	3108.2	3009.3	2888.3	2810.0	2686.9	2612.1	2589.4	2592.9
5°	3252.0	3133.1	2899.0	2711.8	2503.2	2384.4	2203.6	2029.9	1936.0	1901.1	1885.4
7.5°	2967.3	2839.9	2557.3	2263.4	2039.9	1831.3	1696.8	1543.8	1439.2	1353.0	1338.1
10°	2755.9	2588.7	2238.5	1922.4	1745.9	1589.3	1454.8	1301.8	1178.7	1080.4	1053.4
12.5°	2629.2	2442.0	2051.3	1786.5	1619.2	1458.4	1283.3	1106.1	980.1	874.0	824.9
15°	2606.4	2389.4	1998.6	1689.0	1482.6	1288.3	1055.5	864.1	734.5	634.2	603.6
17.5°	2743.8	2484.0	1990.8	1587.2	1303.9	1028.5	786.5	627.8	481.9	425.6	403.6
20°	2988.7	2651.3	1990.1	1469.1	1120.3	792.2	552.3	409.3	350.2	323.1	310.3
22.5°	3322.5	2879.0	2027.8	1367.3	929.6	584.4	394.3	326.0	291.8	269.8	264.8
25°	3730.3	3216.4	2120.3	1298.2	783.6	458.4	325.3	279.0	250.5	240.6	236.3
27.5°	4092.6	3539.6	2222.1	1227.1	679.0	405.7	301.8	255.5	232.7	224.9	218.5
30°	4405.0	3832.8	2271.2	1133.1	595.0	371.5	306.1	273.3	243.4	219.9	209.3
32.5°	4665.6	4057.7	2303.2	1047.7	523.9	303.9	242.0	211.4	197.9	189.3	182.2
35°	4991.5	4301.1	2284.0	999.3	487.6	276.9	220.6	182.2	159.4	142.4	135.2
37.5°	5333.2	4544.6	2250.6	959.4	471.2	256.9	210.0	173.0	148.0	130.3	121.0
40°	5686.9	4770.2	2211.4	922.4	456.2	244.1	203.6	165.1	140.2	121.0	111.0
42.5°	6010.8	4990.1	2195.8	898.2	432.0	246.3	198.6	161.6	132.4	112.5	103.9
45°	6272.7	5198.7	2217.1	885.4	405.7	242.7	200.0	157.3	126.0	106.8	98.2
47.5°	6552.4	5493.3	2286.2	872.6	380.1	225.6	210.7	156.6	123.1	103.2	94.0
50°	6877.7	5870.6	2444.2	841.3	348.8	207.1	224.2	155.9	119.6	98.9	89.7
52.5°	7311.1	6299.0	2607.2	786.5	303.2	189.3	214.2	153.7	112.5	94.0	84.7
55°	7700.5	6750.3	2745.2	721.7	245.6	163.7	192.9	144.5	100.4	85.4	76.9
57.5°	7861.3	7005.1	2741.0	632.0	196.4	143.8	158.7	132.4	87.5	75.4	68.3
59°	7802.3	6973.1	2649.2	565.8	179.4	133.1	131.7	131.0	81.9	68.3	62.6
60°	7719.0	6856.3	2550.2	533.1	168.7	126.0	121.0	129.5	76.9	64.1	58.4
62.5°	7400.1	6372.3	2222.1	477.6	154.5	106.8	96.8	109.6	68.3	55.5	50.5
65°	6938.2	5628.6	1881.2	461.9	150.2	88.3	80.4	78.3	58.4	47.0	42.7
67.5°	6037.1	4763.1	1523.9	451.3	151.6	74.0	70.5	59.1	48.4	39.1	36.3
70°	4833.5	3713.9	1247.7	439.2	153.0	60.5	59.1	47.0	39.1	32.7	29.9
72.5°	2936.7	2201.5	982.2	381.5	148.8	48.4	52.7	35.6	28.5	23.5	22.1
75°	1815.7	1506.8	609.3	296.8	98.2	35.6	37.0	22.1	19.2	14.9	14.9
77.5°	1052.0	951.6	217.8	106.8	43.4	21.4	16.4	11.4	10.7	6.4	6.4
80°	436.3	349.5	75.4	36.3	23.5	10.0	3.6	0.7	0.0	0.0	0.0
82.5°	127.4	113.2	20.6	16.4	7.1	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: P451623  
 CATALOG NUMBER: GALN-SA2C-730-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3131.0	3131.0	3131.0	3131.0	3131.0	3131.0	3131.0	3131.0	3131.0	3131.0	3131.0
2.5°	2532.4	2508.9	2498.3	2534.6	2501.1	2543.8	2511.1	2525.3	2567.3	2585.8	2633.5
5°	1895.4	1871.2	1859.8	1914.6	1911.8	1938.8	1936.0	1960.9	1982.2	1934.5	1983.7
7.5°	1320.3	1303.9	1331.0	1373.7	1419.2	1404.3	1404.3	1370.8	1382.2	1375.1	1373.0
10°	1004.3	948.1	933.8	932.4	949.5	953.0	933.8	887.6	904.6	909.6	939.5
12.5°	790.0	746.6	680.4	650.5	642.7	649.1	585.8	545.2	564.4	553.0	582.2
15°	566.6	531.0	491.8	458.4	449.1	436.3	367.3	318.9	313.2	315.3	320.3
17.5°	404.3	380.1	380.1	344.5	325.3	286.8	252.0	230.6	228.5	230.6	234.2
20°	298.2	285.4	284.0	274.7	253.4	227.8	203.6	199.3	197.9	201.4	202.9
22.5°	256.9	243.4	232.0	231.3	211.4	190.0	178.7	173.0	173.7	175.1	178.7
25°	229.9	215.7	203.6	196.4	182.2	167.3	156.6	153.7	153.7	155.9	156.6
27.5°	210.7	192.9	182.2	172.2	159.4	146.6	137.4	135.2	133.8	135.2	138.8
30°	197.2	179.4	165.8	150.9	140.9	128.8	121.0	118.2	117.4	118.2	121.0
32.5°	168.7	158.0	147.3	133.8	121.7	113.9	105.3	100.4	100.4	101.8	104.6
35°	127.4	121.7	121.0	117.4	107.5	98.9	89.0	84.0	84.0	86.8	88.3
37.5°	112.5	101.8	100.4	98.9	94.7	83.3	74.0	69.8	69.0	71.2	74.0
40°	102.5	90.4	84.0	82.6	83.3	70.5	60.5	56.2	56.2	56.9	59.8
42.5°	94.7	80.4	69.0	67.6	70.5	59.1	49.1	44.8	44.8	44.8	48.4
45°	88.3	71.9	58.4	51.2	55.5	48.4	39.9	35.6	34.2	35.6	37.0
47.5°	84.0	65.5	51.2	41.3	41.3	38.4	32.0	27.0	25.6	26.3	28.5
50°	80.4	59.8	43.4	33.5	29.9	30.6	24.2	20.6	19.2	19.2	21.4
52.5°	74.7	54.1	37.7	28.5	22.8	20.6	17.8	14.9	14.2	14.9	16.4
55°	67.6	49.1	32.7	23.5	17.8	14.2	12.8	10.7	10.0	10.7	12.8
57.5°	59.8	41.3	26.3	18.5	12.1	9.3	8.5	7.1	5.7	6.4	7.8
59°	54.8	37.0	22.8	14.9	9.3	6.4	6.4	5.0	3.6	4.3	6.4
60°	52.7	34.2	19.2	12.8	7.8	5.0	5.0	3.6	2.1	2.8	5.0
62.5°	44.8	28.5	14.9	7.8	3.6	0.7	2.1	0.7	0.0	0.7	2.1
65°	37.7	22.8	10.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.7
67.5°	31.3	17.1	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	24.9	11.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	17.1	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	10.7	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4.3	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: P451623  
 CATALOG NUMBER: GALN-SA2C-730-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3131.0	3131.0	3131.0	3131.0	3131.0	3131.0	3131.0	3131.0	3131.0	3131.0
2.5°	2636.3	2738.1	2800.8	2918.9	3039.9	3133.1	3249.9	3354.5	3397.9	3420.7
5°	2033.5	2175.1	2295.4	2475.5	2642.7	2846.3	3052.7	3296.1	3389.4	3413.6
7.5°	1427.1	1571.6	1697.5	1906.1	2144.5	2417.1	2726.0	3034.9	3170.9	3209.3
10°	1030.6	1185.1	1338.8	1547.4	1770.1	2065.5	2387.2	2769.4	2926.0	2955.9
12.5°	650.5	816.4	1066.2	1323.9	1559.5	1797.2	2133.8	2549.5	2722.5	2777.3
15°	377.2	501.1	689.7	1025.6	1325.3	1639.9	2007.1	2466.9	2660.5	2716.8
17.5°	252.7	295.4	424.9	681.9	1077.6	1494.7	1975.1	2534.6	2748.8	2820.7
20°	212.8	232.0	277.6	415.7	829.9	1365.1	1983.7	2718.2	2999.3	3089.0
22.5°	187.2	205.0	234.2	298.9	579.4	1204.3	2024.2	2980.8	3343.8	3458.4
25°	165.1	182.9	208.5	247.7	389.3	1018.5	2113.2	3365.2	3800.1	3926.0
27.5°	146.6	163.0	185.1	218.5	299.6	811.4	2192.2	3739.6	4216.4	4318.9
30°	129.5	143.1	164.4	190.0	249.1	625.6	2232.1	4067.0	4519.6	4633.5
32.5°	112.5	125.3	145.9	166.6	205.0	476.9	2204.3	4307.5	4814.3	4886.9
35°	96.1	109.6	126.7	145.9	177.2	385.1	2065.5	4578.0	5119.7	5176.6
37.5°	82.6	94.0	111.7	126.7	160.1	308.2	1897.5	4821.4	5462.0	5543.9
40°	69.8	81.1	98.9	112.5	147.3	242.7	1745.9	5091.9	5822.9	5923.9
42.5°	56.9	70.5	86.1	108.2	126.7	185.1	1562.3	5311.1	6094.0	6220.7
45°	45.6	60.5	77.6	107.5	110.3	140.9	1385.1	5481.9	6333.9	6447.8
47.5°	36.3	51.2	74.7	100.4	90.4	111.7	1284.0	5660.6	6533.2	6624.3
50°	29.2	42.7	78.3	88.3	75.4	94.7	1281.2	5859.9	6636.4	6696.9
52.5°	23.5	34.9	66.2	67.6	64.1	83.3	1358.0	6084.1	6741.7	6791.6
55°	19.9	29.2	43.4	49.8	57.7	75.4	1415.7	6429.3	6993.0	7040.0
57.5°	15.7	24.9	33.5	39.9	51.2	69.0	1423.5	6695.5	7311.1	7341.7
59°	13.5	21.4	29.9	35.6	47.0	64.8	1391.5	6711.8	7331.8	7380.9
60°	11.4	19.2	26.3	33.5	43.4	61.2	1356.6	6593.0	7254.9	7309.7
62.5°	8.5	14.9	19.2	27.0	35.6	52.7	1191.5	6178.0	6961.0	6999.4
65°	5.7	10.7	14.2	19.9	27.8	45.6	970.8	5639.9	6506.9	6593.0
67.5°	3.6	7.8	11.4	14.9	22.8	38.4	691.8	4836.4	5871.3	5926.8
70°	2.1	5.0	8.5	12.1	17.8	30.6	410.7	3822.8	4884.8	4896.2
72.5°	1.4	3.6	5.7	8.5	14.2	27.8	199.3	2491.9	3566.6	3702.5
75°	0.7	2.1	3.6	6.4	11.4	22.8	95.4	1664.8	2595.1	2634.2
77.5°	0.0	0.7	2.1	4.3	8.5	17.8	55.5	1093.3	1769.4	1810.0
80°	0.0	0.0	1.4	3.6	6.4	11.4	33.5	644.8	1071.9	1091.8
82.5°	0.0	0.0	0.7	2.8	4.3	8.5	17.1	283.3	701.8	708.9
85°	0.0	0.0	0.7	2.8	3.6	5.7	6.4	38.4	311.7	317.4
87.5°	0.0	0.0	0.7	3.6	3.6	3.6	3.6	2.1	26.3	32.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)