

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: P454117

Luminaire Tested: **GALN-SA5B-722-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454117  
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-SA5B-722-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2200K, 800mA 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: 15044 lumens  
Efficiency: N/A  
Efficacy: 73.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

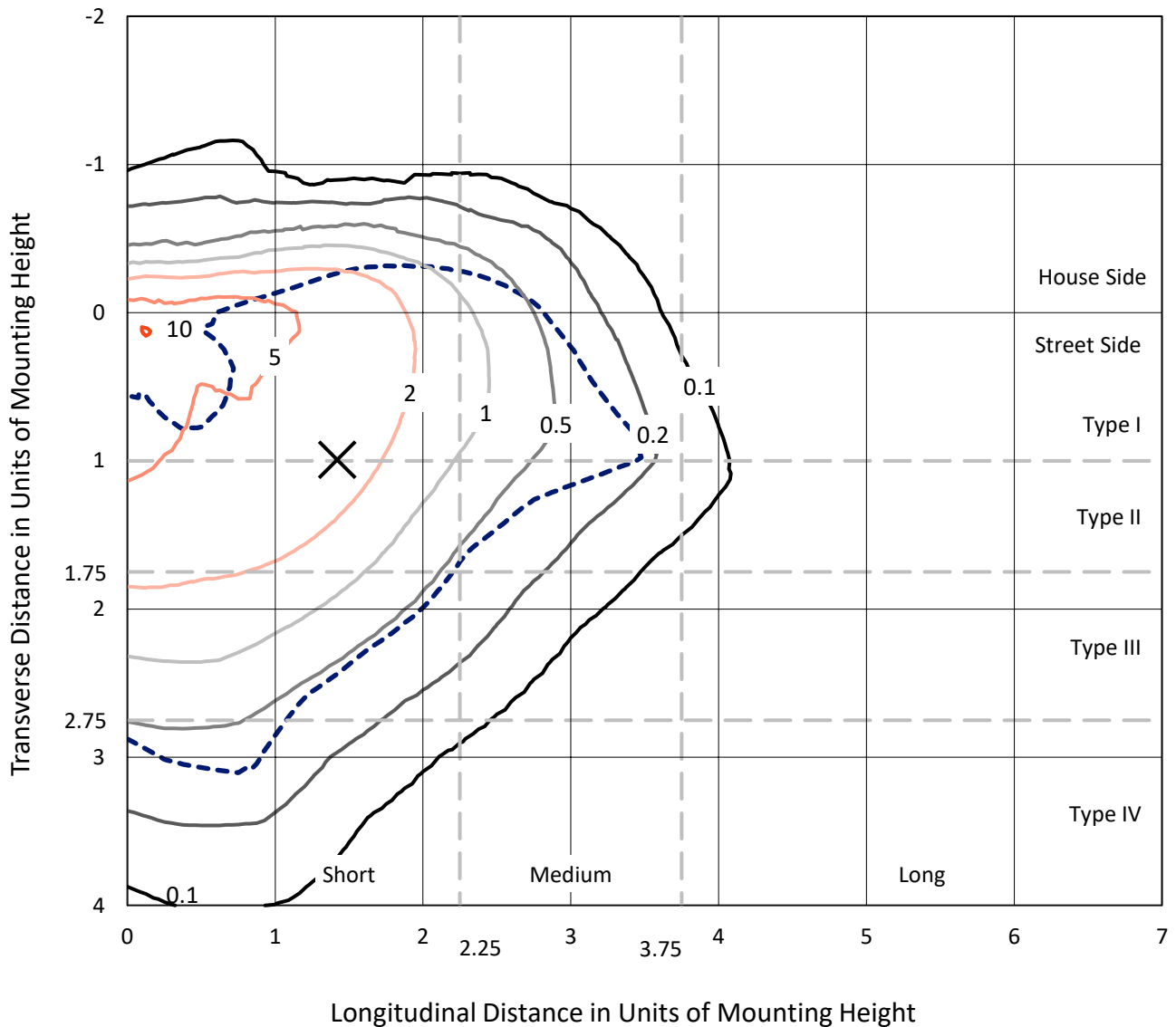
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P454117  
 CATALOG NUMBER: GALN-SA5B-722-U-SLL-HSS

### Iso-Footcandle Lines of Horizontal Illumination

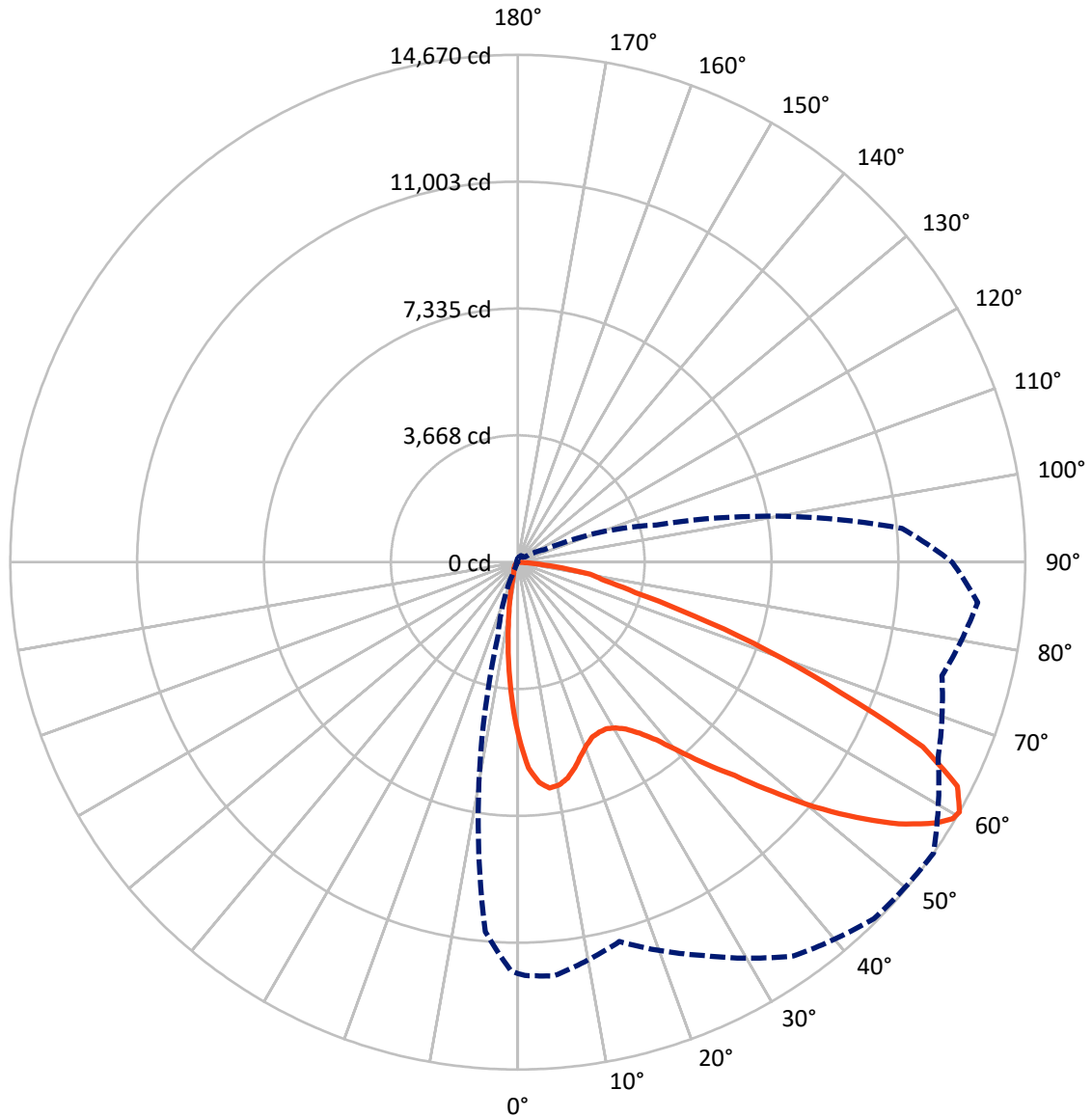
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc  
 Type III - Short - N/A

REPORT NUMBER: P454117  
CATALOG NUMBER: GALN-SA5B-722-U-SLL-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P454117

CATALOG NUMBER: GALN-SA5B-722-U-SLL-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2232.7	0.0	2232.7
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	12811.3	0.0	12811.3
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	15044.0	0.0	15044.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	377.2	2.5
10°-20°	742.8	4.9
20°-30°	1099.5	7.3
30°-40°	1638.9	10.9
40°-50°	2400.2	16.0
50°-60°	3465.1	23.0
60°-70°	3645.1	24.2
70°-80°	1499.5	10.0
80°-90°	175.6	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°	15044.0	100.0
0°-180°	15044.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P454117

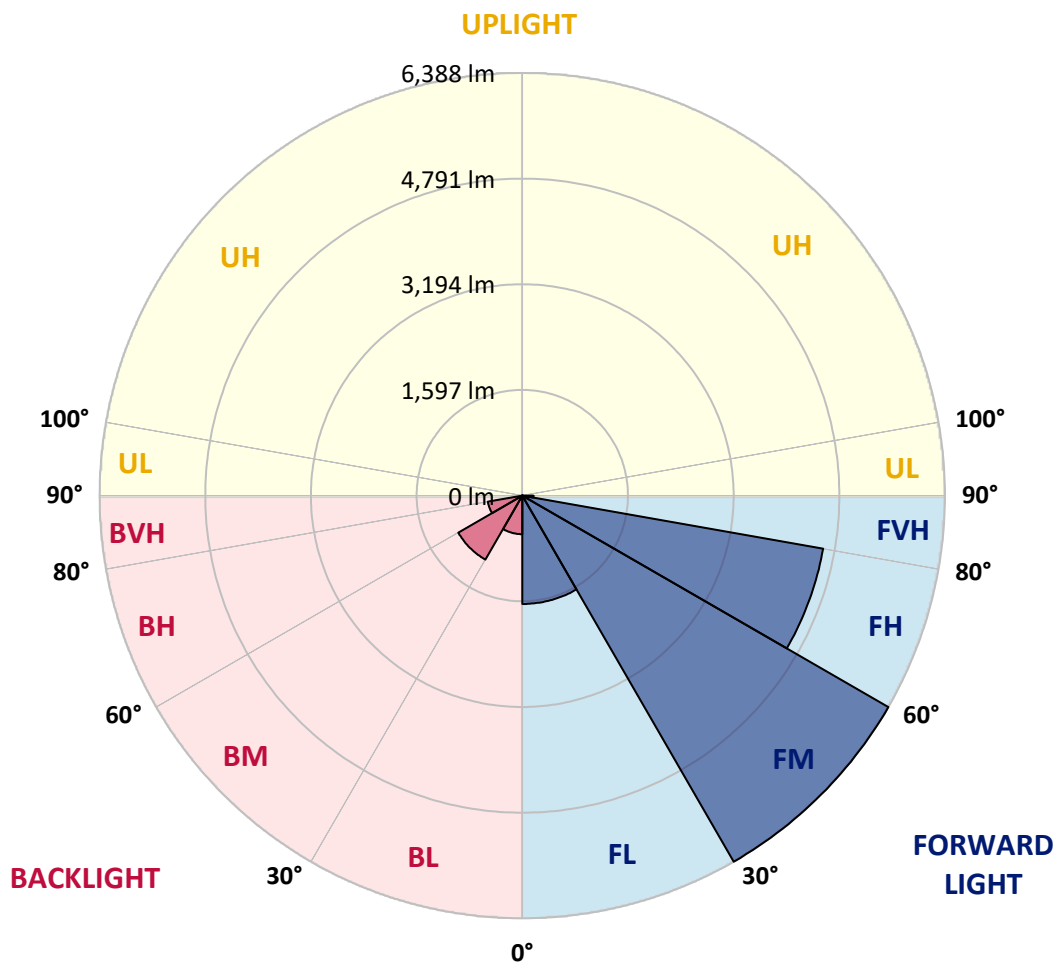
CATALOG NUMBER: GALN-SA5B-722-U-SLL-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1637.0	10.9			
FM	(30°-60°)	6387.7	42.5			
FH	(60°-80°)	4616.2	30.7			G2/5000
FVH	(80°-90°)	170.5	1.1			G2/225
BL	(0°-30°)	582.5	3.9	B2/1000		
BM	(30°-60°)	1116.5	7.4	B2/2500		
BH	(60°-80°)	528.5	3.5	B2/1000		G2/1000
BVH	(80°-90°)	5.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

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

Type III Short





REPORT NUMBER: P454117

CATALOG NUMBER: GALN-SA5B-722-U-SLL-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5093.9	5093.9	5093.9	5093.9	5093.9	5093.9	5093.9	5093.9	5093.9	5093.9	5093.9
2.5°	5565.1	5555.9	5638.1	5772.4	5907.9	5978.5	5964.6	5958.9	5846.5	5764.3	5591.8
5°	5553.6	5601.0	5748.1	6111.7	6387.3	6520.5	6559.8	6394.2	6175.4	5858.1	5466.7
7.5°	5221.2	5280.3	5520.0	6088.5	6578.4	6867.8	6857.4	6592.3	6140.7	5649.7	5091.5
10°	4809.0	4878.5	5159.9	5850.0	6485.7	6867.8	6888.7	6552.9	5991.3	5361.3	4774.3
12.5°	4518.4	4600.6	4912.1	5627.7	6247.2	6623.5	6647.8	6404.7	5879.0	5250.2	4601.7
15°	4419.9	4497.5	4813.6	5515.4	5993.6	6196.2	6190.4	6165.0	5834.9	5276.8	4611.0
17.5°	4589.0	4652.7	5009.3	5566.3	5756.2	5735.4	5765.5	5888.2	5844.2	5500.3	4902.8
20°	5025.5	5090.4	5473.7	5722.6	5574.4	5442.4	5456.3	5661.3	5929.9	5920.6	5359.0
22.5°	5626.5	5736.5	6083.9	6026.0	5550.1	5260.6	5231.7	5498.0	6075.8	6404.7	5975.1
25°	6387.3	6498.5	6769.4	6510.0	5669.4	5217.8	5191.1	5448.2	6253.0	6877.1	6668.7
27.5°	7026.5	7111.0	7380.8	6981.3	5845.4	5236.3	5192.3	5455.1	6396.6	7278.9	7253.4
30°	7538.3	7600.8	7759.5	7201.3	5997.1	5317.3	5266.4	5557.0	6460.2	7474.6	7727.1
32.5°	7950.5	8055.9	8105.7	7436.4	6214.8	5470.2	5383.3	5752.7	6615.4	7716.6	8223.8
35°	8421.8	8543.4	8479.7	7661.0	6501.9	5708.7	5602.2	6070.0	6850.5	7940.1	8800.5
37.5°	9019.3	9159.4	8910.5	7897.3	6805.3	6067.7	6017.9	6515.8	7207.1	8259.7	9418.8
40°	9637.7	9718.7	9328.5	8184.4	7178.2	6589.9	6637.4	7178.2	7673.8	8643.0	10076.5
42.5°	10120.6	10197.0	9758.1	8425.3	7559.1	7209.4	7407.5	7977.2	8208.8	9035.5	10567.5
45°	10489.9	10554.8	10055.7	8688.2	8073.3	8106.9	8480.9	8800.5	8744.9	9275.2	10946.2
47.5°	10777.1	10832.7	10285.0	8970.7	8843.3	9204.6	9776.6	9912.1	9300.7	9534.6	11288.9
50°	10895.2	10911.4	10356.8	9330.8	9717.6	10603.4	11199.8	11117.6	9937.6	9823.0	11653.7
52.5°	11049.2	11045.8	10561.7	9673.6	10539.7	11854.0	12449.2	12262.8	10657.8	10254.9	12063.6
55°	11453.4	11458.0	11000.6	10159.9	11240.3	12863.8	13500.6	13365.2	11417.5	10984.4	12541.8
57.5°	11944.3	11961.7	11624.7	10728.5	11909.6	13595.6	14285.7	14233.6	12444.6	11796.1	12993.4
59°	12008.0	12042.8	11920.0	11129.1	12306.8	13820.2	14554.4	14605.3	12994.6	12331.1	13237.8
60°	11892.2	11950.1	12005.7	11356.1	12539.5	13901.3	14570.6	14670.2	13408.0	12694.7	13348.9
62.5°	11387.4	11478.8	11757.9	12054.3	12830.2	13648.8	14053.0	14261.4	13919.8	13650.0	13359.4
65°	10726.2	10773.6	11176.6	12178.2	12266.2	12470.0	12595.1	12862.6	13304.9	14018.2	12881.1
67.5°	9642.3	9782.4	10275.7	11459.2	10602.3	10361.4	10330.1	10063.8	11212.5	13140.5	11702.3
70°	7965.6	8028.1	8636.0	9394.5	8001.5	7630.9	7779.2	7679.6	8691.6	11312.1	9418.8
72.5°	6023.7	6165.0	6759.0	7488.5	5444.7	4964.2	5372.9	5335.9	6528.6	9091.1	6470.7
75°	4285.6	4377.1	5134.4	5860.4	3813.2	3230.7	3377.8	3515.6	4557.7	7178.2	3823.6
77.5°	2944.7	3023.4	3592.0	3875.7	2781.4	2664.5	2437.5	2570.7	2986.4	4259.0	2080.9
80°	1776.3	1772.8	2146.9	2216.3	1937.3	2249.9	1887.5	2119.1	1805.3	1822.6	805.9
82.5°	1153.3	1141.7	1313.1	1431.2	1078.1	1133.6	760.8	1096.6	1176.5	508.3	254.8
85°	516.4	538.5	631.1	832.6	472.4	251.3	155.2	337.0	501.4	255.9	0.0
87.5°	53.3	41.7	111.2	202.6	64.8	6.9	23.2	11.6	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



REPORT NUMBER: P454117

CATALOG NUMBER: GALN-SA5B-722-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5093.9	5093.9	5093.9	5093.9	5093.9	5093.9	5093.9	5093.9	5093.9	5093.9	5093.9
2.5°	5511.9	5444.7	5244.4	5056.8	4895.8	4699.0	4571.6	4371.3	4249.7	4212.7	4218.4
5°	5290.7	5097.3	4716.4	4411.8	4072.5	3879.2	3585.0	3302.5	3149.6	3092.9	3067.4
7.5°	4827.5	4620.3	4160.5	3682.3	3318.7	2979.4	2760.6	2511.6	2341.4	2201.3	2177.0
10°	4483.6	4211.5	3641.8	3127.6	2840.5	2585.7	2366.9	2117.9	1917.6	1757.8	1713.8
12.5°	4277.5	3973.0	3337.2	2906.5	2634.4	2372.7	2087.8	1799.5	1594.5	1422.0	1342.1
15°	4240.4	3887.3	3251.5	2747.8	2412.0	2095.9	1717.3	1405.8	1195.0	1031.7	981.9
17.5°	4463.9	4041.3	3238.8	2582.2	2121.4	1673.2	1279.5	1021.3	783.9	692.5	656.6
20°	4862.3	4313.4	3237.7	2390.0	1822.6	1288.8	898.6	665.8	569.7	525.7	504.9
22.5°	5405.3	4683.9	3299.0	2224.4	1512.3	950.7	641.5	530.3	474.8	438.9	430.8
25°	6068.9	5232.8	3449.6	2112.1	1274.9	745.7	529.2	453.9	407.6	391.4	384.4
27.5°	6658.3	5758.5	3615.1	1996.3	1104.7	660.0	491.0	415.7	378.7	365.9	355.5
30°	7166.6	6235.6	3695.0	1843.5	968.1	604.5	497.9	444.7	396.0	357.8	340.4
32.5°	7590.4	6601.5	3747.2	1704.5	852.3	494.4	393.7	343.9	321.9	308.0	296.4
35°	8120.8	6997.5	3715.9	1625.8	793.2	450.4	359.0	296.4	259.4	231.6	220.0
37.5°	8676.6	7393.6	3661.5	1560.9	766.6	418.0	341.6	281.4	240.9	211.9	196.9
40°	9252.1	7760.6	3597.8	1500.7	742.3	397.2	331.2	268.6	228.1	196.9	180.6
42.5°	9779.0	8118.4	3572.3	1461.3	702.9	400.7	323.1	262.9	215.4	183.0	169.1
45°	10205.1	8457.7	3607.0	1440.5	660.0	394.9	325.4	255.9	205.0	173.7	159.8
47.5°	10660.2	8937.1	3719.4	1419.7	618.3	367.1	342.8	254.8	200.3	167.9	152.9
50°	11189.3	9550.8	3976.4	1368.7	567.4	337.0	364.8	253.6	194.5	161.0	145.9
52.5°	11894.5	10247.9	4241.6	1279.5	493.3	308.0	348.5	250.1	183.0	152.9	137.8
55°	12527.9	10982.1	4466.2	1174.2	399.5	266.3	313.8	235.1	163.3	139.0	125.1
57.5°	12789.6	11396.6	4459.3	1028.3	319.6	233.9	258.2	215.4	142.4	122.7	111.2
59°	12693.5	11344.5	4309.9	920.6	291.8	216.5	214.2	213.1	133.2	111.2	101.9
60°	12558.1	11154.6	4149.0	867.3	274.4	205.0	196.9	210.7	125.1	104.2	95.0
62.5°	12039.3	10367.2	3615.1	777.0	251.3	173.7	157.5	178.3	111.2	90.3	82.2
65°	11287.8	9157.1	3060.5	751.5	244.3	143.6	130.8	127.4	95.0	76.4	69.5
67.5°	9821.8	7749.1	2479.2	734.1	246.6	120.4	114.6	96.1	78.7	63.7	59.1
70°	7863.7	6042.2	2029.9	714.5	249.0	98.4	96.1	76.4	63.7	53.3	48.6
72.5°	4777.7	3581.6	1598.0	620.7	242.0	78.7	85.7	57.9	46.3	38.2	35.9
75°	2954.0	2451.4	991.2	482.9	159.8	57.9	60.2	35.9	31.3	24.3	24.3
77.5°	1711.5	1548.2	354.3	173.7	70.6	34.7	26.6	18.5	17.4	10.4	10.4
80°	709.8	568.6	122.7	59.1	38.2	16.2	5.8	1.2	0.0	0.0	0.0
82.5°	207.3	184.1	33.6	26.6	11.6	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°	5093.9	5093.9	5093.9	5093.9	5093.9	5093.9	5093.9	5093.9	5093.9	5093.9	5093.9
2.5°	4120.0	4081.8	4064.4	4123.5	4069.1	4138.5	4085.3	4108.4	4176.8	4206.9	4284.4
5°	3083.6	3044.3	3025.7	3114.9	3110.3	3154.3	3149.6	3190.2	3224.9	3147.3	3227.2
7.5°	2148.0	2121.4	2165.4	2234.9	2309.0	2284.7	2284.7	2230.2	2248.8	2237.2	2233.7
10°	1633.9	1542.4	1519.2	1516.9	1544.7	1550.5	1519.2	1444.0	1471.8	1479.9	1528.5
12.5°	1285.3	1214.7	1107.0	1058.4	1045.6	1056.1	953.0	887.0	918.3	899.7	947.2
15°	921.7	863.8	800.1	745.7	730.7	709.8	597.5	518.8	509.5	513.0	521.1
17.5°	657.7	618.3	618.3	560.5	529.2	466.7	409.9	375.2	371.7	375.2	381.0
20°	485.2	464.3	462.0	447.0	412.2	370.5	331.2	324.2	321.9	327.7	330.0
22.5°	418.0	396.0	377.5	376.3	343.9	309.2	290.6	281.4	282.5	284.9	290.6
25°	374.0	350.9	331.2	319.6	296.4	272.1	254.8	250.1	250.1	253.6	254.8
27.5°	342.8	313.8	296.4	280.2	259.4	238.5	223.5	220.0	217.7	220.0	225.8
30°	320.8	291.8	269.8	245.5	229.3	209.6	196.9	192.2	191.1	192.2	196.9
32.5°	274.4	257.1	239.7	217.7	198.0	185.3	171.4	163.3	163.3	165.6	170.2
35°	207.3	198.0	196.9	191.1	174.9	161.0	144.7	136.6	136.6	141.3	143.6
37.5°	183.0	165.6	163.3	161.0	154.0	135.5	120.4	113.5	112.3	115.8	120.4
40°	166.7	147.1	136.6	134.3	135.5	114.6	98.4	91.5	91.5	92.6	97.3
42.5°	154.0	130.8	112.3	110.0	114.6	96.1	79.9	73.0	73.0	73.0	78.7
45°	143.6	117.0	95.0	83.4	90.3	78.7	64.8	57.9	55.6	57.9	60.2
47.5°	136.6	106.5	83.4	67.2	67.2	62.5	52.1	44.0	41.7	42.8	46.3
50°	130.8	97.3	70.6	54.4	48.6	49.8	39.4	33.6	31.3	31.3	34.7
52.5°	121.6	88.0	61.4	46.3	37.1	33.6	28.9	24.3	23.2	24.3	26.6
55°	110.0	79.9	53.3	38.2	28.9	23.2	20.8	17.4	16.2	17.4	20.8
57.5°	97.3	67.2	42.8	30.1	19.7	15.1	13.9	11.6	9.3	10.4	12.7
59°	89.2	60.2	37.1	24.3	15.1	10.4	10.4	8.1	5.8	6.9	10.4
60°	85.7	55.6	31.3	20.8	12.7	8.1	8.1	5.8	3.5	4.6	8.1
62.5°	73.0	46.3	24.3	12.7	5.8	1.2	3.5	1.2	0.0	1.2	3.5
65°	61.4	37.1	16.2	5.8	0.0	0.0	0.0	0.0	0.0	0.0	1.2
67.5°	51.0	27.8	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	40.5	18.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	27.8	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	17.4	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	6.9	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: P454117  
 CATALOG NUMBER: GALN-SA5B-722-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5093.9	5093.9	5093.9	5093.9	5093.9	5093.9	5093.9	5093.9	5093.9	5093.9
2.5°	4289.1	4454.7	4556.6	4748.8	4945.6	5097.3	5287.2	5457.5	5528.1	5565.1
5°	3308.3	3538.7	3734.4	4027.4	4299.5	4630.7	4966.5	5362.5	5514.2	5553.6
7.5°	2321.7	2556.8	2761.7	3101.0	3488.9	3932.4	4435.0	4937.5	5158.7	5221.2
10°	1676.7	1928.0	2178.1	2517.4	2879.8	3360.4	3883.8	4505.6	4760.4	4809.0
12.5°	1058.4	1328.2	1734.6	2153.8	2537.1	2923.8	3471.6	4147.8	4429.2	4518.4
15°	613.7	815.2	1122.1	1668.6	2156.1	2667.9	3265.4	4013.5	4328.4	4419.9
17.5°	411.1	480.6	691.3	1109.3	1753.1	2431.7	3213.3	4123.5	4472.0	4589.0
20°	346.2	377.5	451.6	676.2	1350.2	2221.0	3227.2	4422.2	4879.6	5025.5
22.5°	304.5	333.5	381.0	486.3	942.6	1959.3	3293.2	4849.5	5440.1	5626.5
25°	268.6	297.6	339.3	403.0	633.4	1657.0	3438.0	5474.8	6182.3	6387.3
27.5°	238.5	265.2	301.1	355.5	487.5	1320.1	3566.5	6083.9	6859.7	7026.5
30°	210.7	232.7	267.5	309.2	405.3	1017.8	3631.4	6616.6	7353.0	7538.3
32.5°	183.0	203.8	237.4	271.0	333.5	775.8	3586.2	7008.0	7832.4	7950.5
35°	156.3	178.3	206.1	237.4	288.3	626.5	3360.4	7448.0	8329.2	8421.8
37.5°	134.3	152.9	181.8	206.1	260.5	501.4	3087.1	7844.0	8886.2	9019.3
40°	113.5	132.0	161.0	183.0	239.7	394.9	2840.5	8284.0	9473.3	9637.7
42.5°	92.6	114.6	140.1	176.0	206.1	301.1	2541.7	8640.7	9914.4	10120.6
45°	74.1	98.4	126.2	174.9	179.5	229.3	2253.4	8918.6	10304.7	10489.9
47.5°	59.1	83.4	121.6	163.3	147.1	181.8	2089.0	9209.2	10628.9	10777.1
50°	47.5	69.5	127.4	143.6	122.7	154.0	2084.3	9533.5	10796.8	10895.2
52.5°	38.2	56.7	107.7	110.0	104.2	135.5	2209.4	9898.2	10968.2	11049.2
55°	32.4	47.5	70.6	81.1	93.8	122.7	2303.2	10459.8	11376.9	11453.4
57.5°	25.5	40.5	54.4	64.8	83.4	112.3	2315.9	10892.9	11894.5	11944.3
59°	22.0	34.7	48.6	57.9	76.4	105.4	2263.8	10919.5	11928.1	12008.0
60°	18.5	31.3	42.8	54.4	70.6	99.6	2207.1	10726.2	11803.1	11892.2
62.5°	13.9	24.3	31.3	44.0	57.9	85.7	1938.4	10051.1	11324.8	11387.4
65°	9.3	17.4	23.2	32.4	45.2	74.1	1579.5	9175.7	10586.1	10726.2
67.5°	5.8	12.7	18.5	24.3	37.1	62.5	1125.5	7868.3	9552.0	9642.3
70°	3.5	8.1	13.9	19.7	28.9	49.8	668.1	6219.4	7947.1	7965.6
72.5°	2.3	5.8	9.3	13.9	23.2	45.2	324.2	4054.0	5802.5	6023.7
75°	1.2	3.5	5.8	10.4	18.5	37.1	155.2	2708.5	4221.9	4285.6
77.5°	0.0	1.2	3.5	6.9	13.9	28.9	90.3	1778.6	2878.7	2944.7
80°	0.0	0.0	2.3	5.8	10.4	18.5	54.4	1049.1	1743.9	1776.3
82.5°	0.0	0.0	1.2	4.6	6.9	13.9	27.8	460.9	1141.7	1153.3
85°	0.0	0.0	1.2	4.6	5.8	9.3	10.4	62.5	507.2	516.4
87.5°	0.0	0.0	1.2	5.8	5.8	5.8	5.8	3.5	42.8	53.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)