

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: P529301

Luminaire Tested: **GALN-SA4C-722-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529301
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-SA4C-722-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2200K, 1050mA 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: 11303 lumens
Efficiency: N/A
Efficacy: 53.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

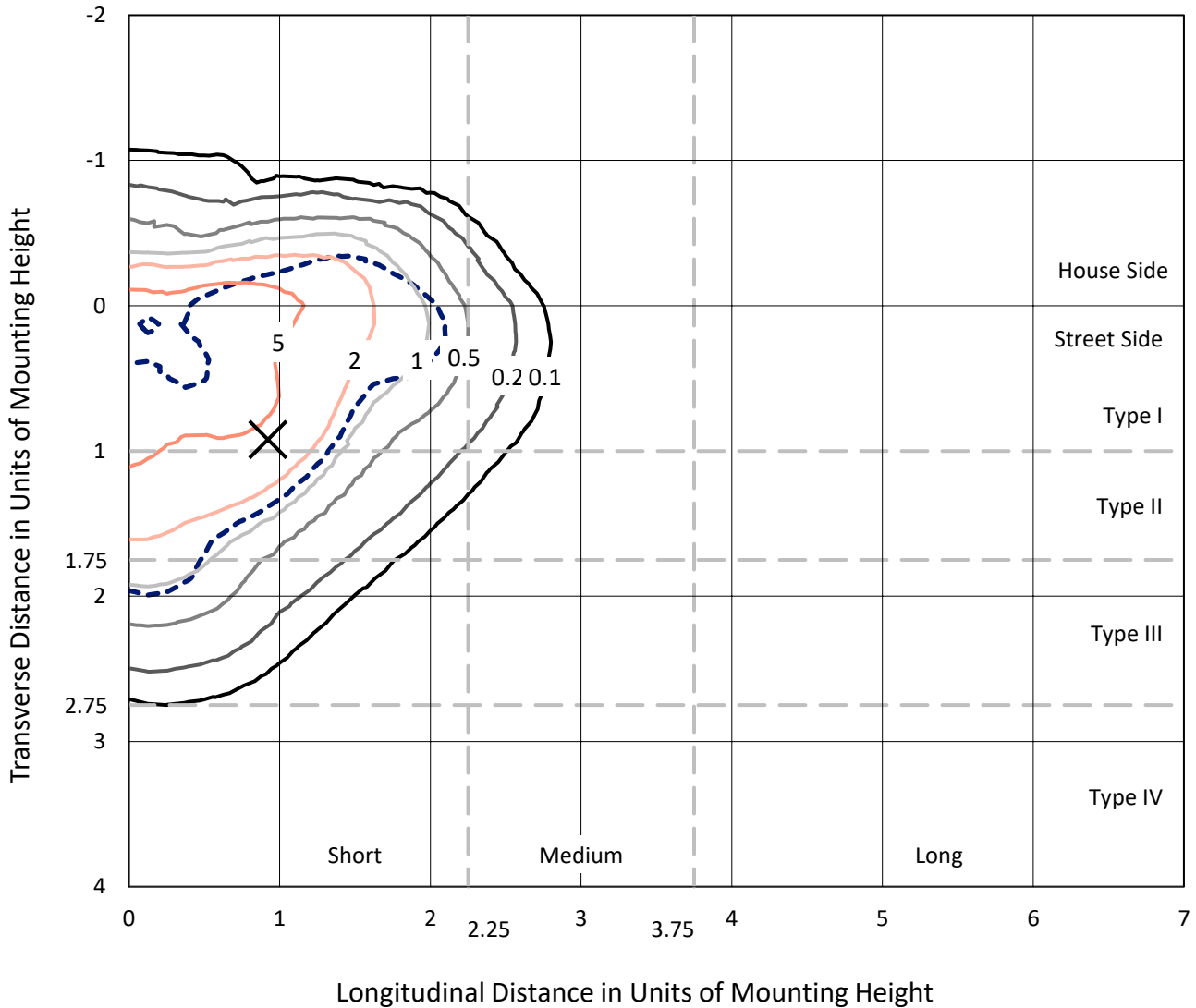
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P529301
 CATALOG NUMBER: GALN-SA4C-722-U-SLL-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

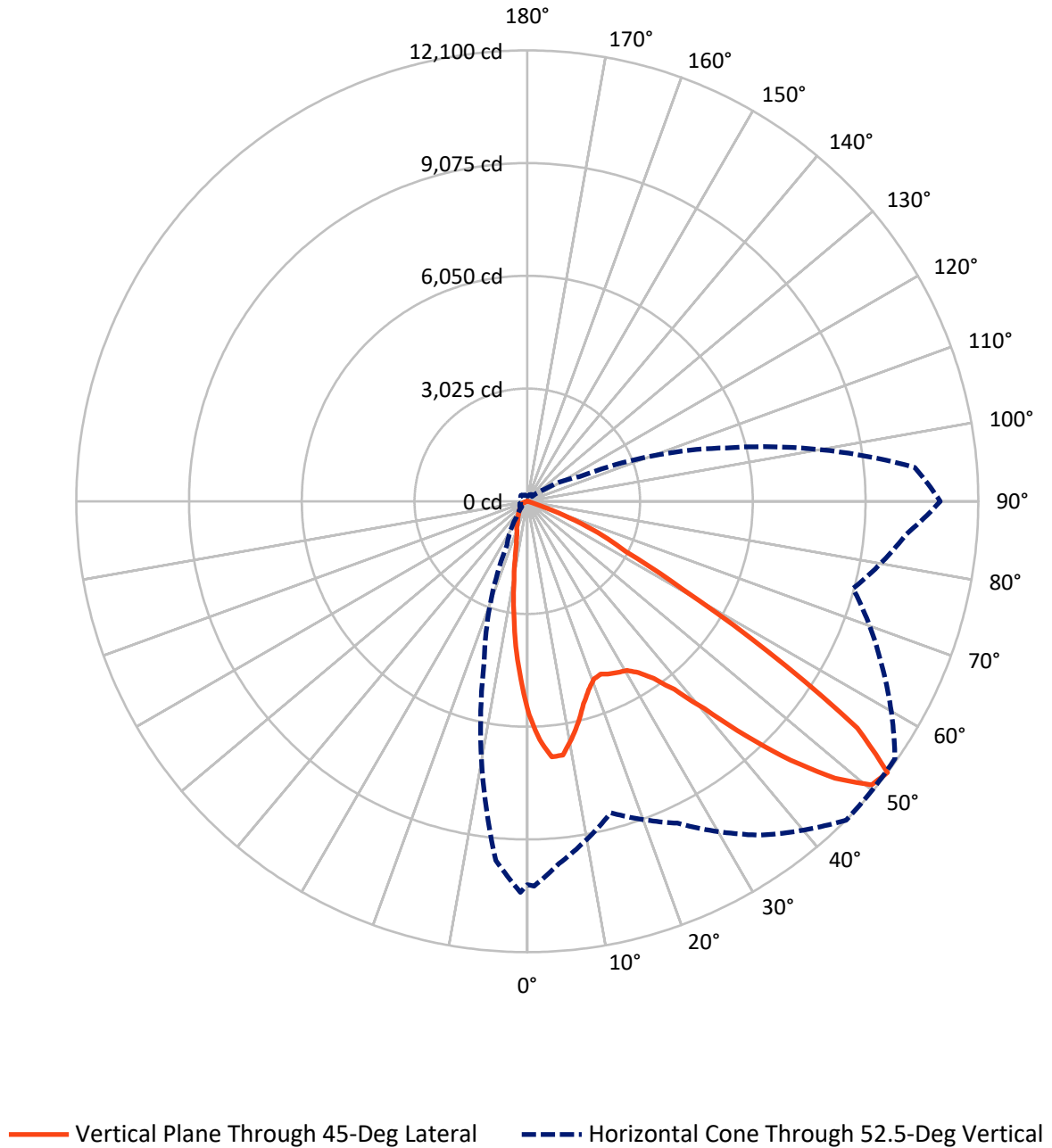
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type III - Short - N/A

REPORT NUMBER: P529301
CATALOG NUMBER: GALN-SA4C-722-U-SLL-GRSBK

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2293.9	0.0	2293.9
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	9009.0	0.0	9009.0
	% Fixture	79.7	0.0	79.7
Total	Lumens	11303.0	0.0	11303.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.0	3.7
10°-20°	824.6	7.3
20°-30°	1254.9	11.1
30°-40°	1875.7	16.6
40°-50°	2671.1	23.6
50°-60°	2871.4	25.4
60°-70°	1272.4	11.3
70°-80°	102.9	0.9
80°-90°	12.0	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°	11303.0	100.0
0°-180°	11303.0	100.0

Coefficient of Utilization

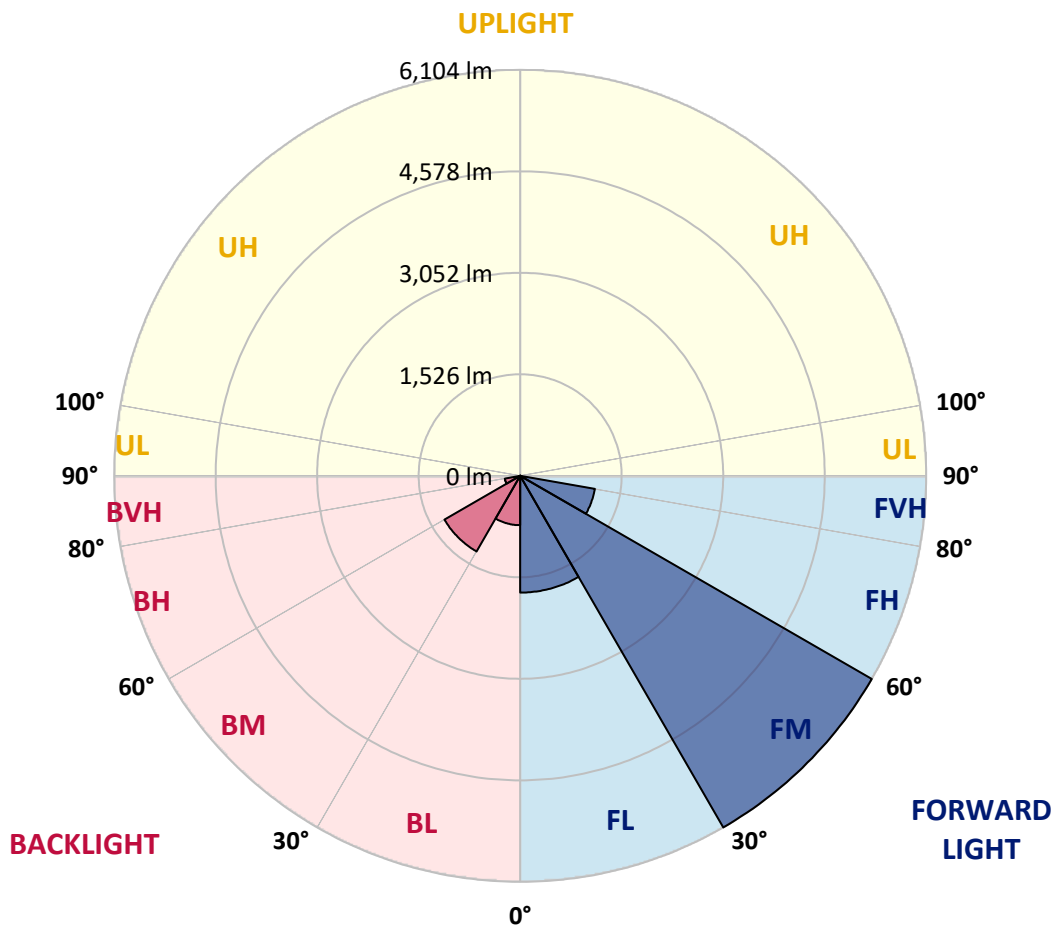


REPORT NUMBER: P529301
 CATALOG NUMBER: GALN-SA4C-722-U-SLL-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1755.6	15.5			
FM (30°-60°)	6104.0	54.0			
FH (60°-80°)	1140.6	10.1			G1/1800
FVH (80°-90°)	8.9	0.1			G0/10
BL (0°-30°)	742.0	6.6	B2/1000		
BM (30°-60°)	1314.2	11.6	B2/2500		
BH (60°-80°)	234.7	2.1	B1/500		G1/500
BVH (80°-90°)	3.1	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-G1
 Type III Short





REPORT NUMBER: P529301

CATALOG NUMBER: GALN-SA4C-722-U-SLL-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5731.1	5731.1	5731.1	5731.1	5731.1	5731.1	5731.1	5731.1	5731.1	5731.1	5731.1
2.5°	6064.6	6082.4	6180.2	6302.5	6367.0	6513.7	6411.4	6438.1	6382.5	6186.9	6033.5
5°	5880.1	5877.9	6002.4	6304.7	6591.5	6882.7	6891.6	6736.0	6462.5	6162.4	5733.4
7.5°	5324.3	5411.0	5540.0	6022.4	6553.7	6771.6	6876.0	6693.7	6273.6	5844.5	5379.9
10°	4904.2	4948.6	5166.5	5748.9	6138.0	6429.2	6493.7	6389.2	6066.8	5531.1	5010.9
12.5°	4661.8	4684.1	4939.7	5428.8	5840.1	6055.7	6086.8	6135.8	5904.5	5402.1	4777.4
15°	4664.1	4681.8	5026.4	5435.5	5597.8	5540.0	5642.2	5640.0	5740.0	5377.7	4973.1
17.5°	4999.7	5019.8	5331.0	5533.3	5462.2	5326.5	5319.9	5422.1	5633.3	5682.2	5268.7
20°	5577.8	5624.4	5853.4	5842.3	5442.1	5168.7	5093.1	5170.9	5662.2	5940.1	5864.5
22.5°	6355.8	6420.3	6580.4	6273.6	5533.3	5062.0	5037.5	5188.7	5853.4	6515.9	6540.4
25°	7258.4	7367.3	7445.2	7051.7	5857.9	5246.5	5130.9	5391.0	6111.3	7140.6	7400.7
27.5°	7856.4	7969.8	7952.0	7389.6	6075.7	5295.4	5197.6	5439.9	6335.8	7289.5	7849.8
30°	8323.3	8392.2	8516.7	7571.9	6293.6	5433.3	5266.5	5646.7	6409.2	7547.4	8392.2
32.5°	8867.9	8914.6	8923.5	7894.2	6629.3	5606.7	5479.9	5904.5	6733.8	7794.2	8872.4
35°	9417.0	9486.0	9341.5	8292.2	6836.0	5929.0	5835.6	6351.4	6993.9	8049.8	9401.5
37.5°	10012.8	10048.4	9714.9	8456.7	7131.7	6453.7	6402.5	6833.8	7445.2	8512.2	9988.4
40°	10513.0	10546.4	10112.9	8659.0	7442.9	7187.3	7318.4	7754.2	8058.7	8812.4	10281.8
42.5°	10790.9	10868.7	10246.3	8547.8	8067.6	8018.7	8601.2	8754.6	8770.1	8896.8	10544.2
45°	10866.5	10830.9	10026.2	8639.0	8614.5	9385.9	9915.0	10117.3	9477.1	9052.5	10610.8
47.5°	10517.5	10564.2	9701.6	8558.9	9332.6	10421.9	11106.6	11482.3	10003.9	8916.8	10446.3
50°	10235.1	10175.1	9597.1	8501.1	9526.0	10911.0	11966.9	12051.4	10488.6	9083.6	10266.3
52.5°	10290.7	10328.5	9763.8	8654.5	9530.4	10939.9	12100.3	12042.5	10504.1	9045.8	10201.8
55°	10408.5	10241.8	9692.7	8316.6	8892.4	10132.9	10739.8	10650.9	9694.9	8643.4	10044.0
57.5°	8981.3	9239.2	8912.4	7425.1	7298.4	7634.1	7623.0	7896.4	7231.7	7438.5	9143.6
60°	7289.5	7334.0	7456.3	6351.4	5050.9	4935.3	4775.2	4601.8	4866.4	6360.3	8316.6
62.5°	6411.4	6358.1	6793.8	5777.8	3565.8	2985.6	2958.9	3065.7	3754.8	6066.8	7800.9
65°	4659.6	4726.3	5042.0	4484.0	2676.6	2278.7	2238.7	2554.3	3039.0	4861.9	5953.5
67.5°	2845.6	2974.5	3003.4	2765.5	1816.3	1442.8	1385.0	1671.8	2194.2	3145.7	3490.3
70°	1313.9	1469.5	1616.2	1509.5	1051.5	593.6	560.2	702.5	1107.1	1809.6	1851.8
72.5°	397.9	400.2	560.2	584.7	340.1	133.4	117.8	155.6	375.7	598.0	629.1
75°	28.9	31.1	75.6	86.7	64.5	33.3	35.6	42.2	80.0	133.4	100.0
77.5°	2.2	2.2	2.2	11.1	20.0	22.2	28.9	33.3	42.2	48.9	44.5
80°	2.2	0.0	2.2	8.9	15.6	22.2	26.7	31.1	33.3	37.8	33.3
82.5°	0.0	0.0	0.0	6.7	15.6	22.2	24.5	33.3	37.8	44.5	37.8
85°	0.0	0.0	0.0	6.7	15.6	24.5	22.2	11.1	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: P529301

CATALOG NUMBER: GALN-SA4C-722-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5731.1	5731.1	5731.1	5731.1	5731.1	5731.1	5731.1	5731.1	5731.1	5731.1	5731.1
2.5°	6060.2	5973.5	5775.6	5675.6	5439.9	5406.6	5175.4	5137.6	5059.8	5017.5	4915.3
5°	5544.4	5439.9	5117.6	4846.4	4530.7	4310.6	4141.6	3988.2	3899.3	3817.1	3854.9
7.5°	5124.2	4819.7	4461.8	4008.2	3643.7	3408.0	3150.1	2938.9	2814.4	2730.0	2750.0
10°	4684.1	4486.2	3988.2	3479.1	3039.0	2872.2	2669.9	2507.7	2332.0	2180.9	2109.7
12.5°	4546.2	4252.8	3628.1	3110.1	2776.6	2614.4	2383.2	2196.4	1971.9	1787.4	1722.9
15°	4570.7	4288.4	3530.3	2976.7	2583.2	2303.1	2027.5	1796.3	1549.5	1420.6	1353.9
17.5°	4968.6	4479.5	3594.7	2836.7	2314.2	1925.2	1585.1	1291.6	1107.1	973.7	944.8
20°	5457.7	4893.0	3732.6	2734.4	2094.2	1531.7	1158.2	904.8	751.4	729.2	722.5
22.5°	6173.5	5568.9	4028.3	2665.5	1825.2	1193.8	793.6	658.0	615.8	611.4	613.6
25°	7173.9	6415.9	4350.6	2607.7	1622.9	920.4	649.1	558.0	544.7	538.0	549.1
27.5°	7607.4	6927.2	4521.8	2483.2	1438.3	829.2	640.3	553.6	515.8	504.6	511.3
30°	8143.2	7267.3	4790.8	2269.8	1167.1	682.5	598.0	602.5	584.7	529.1	511.3
32.5°	8854.6	7691.9	4926.4	2118.6	1042.6	564.7	438.0	402.4	449.1	458.0	473.5
35°	9310.3	8123.2	4995.3	2029.7	978.2	482.4	371.3	337.9	326.8	329.0	337.9
37.5°	10157.3	8705.7	5082.0	1936.3	929.3	420.2	335.7	304.6	289.0	289.0	297.9
40°	10664.2	9168.1	5199.8	1885.2	880.3	382.4	304.6	277.9	264.5	264.5	269.0
42.5°	10790.9	9397.0	5159.8	1867.4	824.8	373.5	277.9	257.9	242.3	240.1	237.9
45°	11017.7	9746.1	5166.5	1847.4	767.0	340.1	262.3	240.1	217.9	215.6	213.4
47.5°	11266.7	9997.3	5179.8	1769.6	711.4	284.6	273.4	222.3	195.6	191.2	191.2
50°	11053.2	10197.4	5295.4	1691.8	640.3	231.2	269.0	209.0	173.4	166.7	169.0
52.5°	11079.9	10433.0	5540.0	1582.8	551.3	184.5	217.9	197.9	157.8	146.7	148.9
55°	10653.1	10184.0	5573.3	1467.2	431.3	142.3	166.7	173.4	133.4	128.9	128.9
57.5°	9170.3	8623.4	4917.5	1189.4	284.6	117.8	120.0	151.2	115.6	111.2	113.4
60°	7847.5	6922.7	3957.1	784.8	177.8	93.4	86.7	153.4	102.3	100.0	106.7
62.5°	7153.9	5688.9	3001.2	486.9	122.3	71.1	60.0	124.5	88.9	88.9	97.8
65°	5168.7	3821.5	1745.1	255.7	86.7	55.6	44.5	71.1	73.4	75.6	80.0
67.5°	3201.3	1929.6	735.8	124.5	57.8	37.8	28.9	44.5	48.9	48.9	53.4
70°	1580.6	769.2	244.5	71.1	44.5	31.1	20.0	24.5	24.5	22.2	24.5
72.5°	489.1	231.2	62.2	44.5	31.1	20.0	11.1	8.9	4.4	0.0	2.2
75°	55.6	44.5	40.0	31.1	20.0	8.9	2.2	0.0	0.0	0.0	0.0
77.5°	33.3	37.8	37.8	31.1	20.0	6.7	0.0	0.0	0.0	0.0	0.0
80°	26.7	28.9	31.1	28.9	17.8	8.9	0.0	0.0	0.0	0.0	0.0
82.5°	33.3	37.8	42.2	37.8	24.5	11.1	4.4	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	6.7	2.2	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: P529301

CATALOG NUMBER: GALN-SA4C-722-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	5731.1	5731.1	5731.1	5731.1	5731.1	5731.1	5731.1	5731.1	5731.1	5731.1	5731.1
2.5°	4873.0	4824.1	4893.0	4790.8	4788.6	4790.8	4761.9	4735.2	4777.4	4890.8	4901.9
5°	3719.2	3823.7	3857.1	3966.0	3906.0	3817.1	3834.8	3774.8	3921.5	3986.0	3934.9
7.5°	2707.7	2701.1	2925.6	2938.9	2967.8	2970.1	2965.6	2847.8	2727.7	2754.4	2834.4
10°	2100.8	1987.4	2096.4	2085.3	2156.4	2136.4	2165.3	2038.6	2080.8	2080.8	2132.0
12.5°	1711.8	1591.7	1571.7	1542.8	1571.7	1582.8	1594.0	1569.5	1640.6	1674.0	1709.6
15°	1307.2	1240.5	1222.7	1167.1	1176.0	1207.1	1233.8	1244.9	1222.7	1273.8	1278.3
17.5°	949.3	947.0	958.2	955.9	947.0	940.4	938.1	909.2	900.4	904.8	922.6
20°	720.3	738.1	775.9	813.7	833.7	809.2	775.9	727.0	706.9	711.4	713.6
22.5°	615.8	642.5	693.6	735.8	755.9	711.4	651.4	609.1	600.2	598.0	595.8
25°	558.0	589.1	626.9	640.3	638.0	611.4	566.9	549.1	544.7	540.2	520.2
27.5°	526.9	538.0	544.7	560.2	566.9	549.1	538.0	511.3	506.9	506.9	493.5
30°	509.1	502.4	511.3	500.2	509.1	495.8	498.0	498.0	486.9	491.3	491.3
32.5°	473.5	475.7	475.7	453.5	460.2	444.6	460.2	473.5	475.7	478.0	495.8
35°	346.8	386.8	406.8	406.8	413.5	402.4	400.2	384.6	364.6	344.6	335.7
37.5°	304.6	320.1	346.8	362.4	373.5	364.6	344.6	320.1	309.0	300.1	291.2
40°	271.2	284.6	302.3	320.1	342.4	331.2	300.1	289.0	275.7	275.7	266.8
42.5°	244.5	251.2	262.3	289.0	313.5	291.2	269.0	260.1	253.4	251.2	249.0
45°	220.1	222.3	233.4	255.7	284.6	262.3	240.1	229.0	231.2	233.4	231.2
47.5°	197.9	202.3	209.0	235.6	253.4	242.3	217.9	211.2	211.2	211.2	213.4
50°	171.2	182.3	195.6	217.9	231.2	224.5	204.5	195.6	191.2	191.2	193.4
52.5°	153.4	162.3	180.1	206.7	224.5	213.4	193.4	180.1	171.2	169.0	173.4
55°	133.4	148.9	177.8	197.9	222.3	211.2	189.0	173.4	157.8	155.6	155.6
57.5°	120.0	144.5	171.2	195.6	215.6	206.7	189.0	169.0	148.9	146.7	146.7
60°	113.4	140.1	166.7	189.0	215.6	202.3	186.7	164.5	142.3	142.3	140.1
62.5°	106.7	131.2	157.8	180.1	206.7	195.6	180.1	157.8	135.6	135.6	131.2
65°	88.9	113.4	131.2	151.2	180.1	169.0	153.4	137.8	120.0	115.6	117.8
67.5°	62.2	77.8	95.6	115.6	133.4	128.9	122.3	111.2	95.6	93.4	91.1
70°	31.1	42.2	57.8	77.8	93.4	88.9	84.5	75.6	66.7	64.5	64.5
72.5°	4.4	13.3	24.5	35.6	48.9	51.1	48.9	46.7	44.5	42.2	44.5
75°	0.0	0.0	0.0	8.9	20.0	24.5	28.9	33.3	33.3	28.9	35.6
77.5°	0.0	0.0	0.0	0.0	2.2	11.1	22.2	28.9	35.6	31.1	42.2
80°	0.0	0.0	0.0	0.0	2.2	13.3	22.2	31.1	35.6	31.1	44.5
82.5°	0.0	0.0	0.0	0.0	2.2	15.6	22.2	28.9	33.3	31.1	40.0
85°	0.0	0.0	0.0	0.0	6.7	13.3	8.9	4.4	2.2	2.2	6.7
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: P529301

CATALOG NUMBER: GALN-SA4C-722-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5731.1	5731.1	5731.1	5731.1	5731.1	5731.1	5731.1	5731.1	5731.1	5731.1
2.5°	4964.2	5122.0	5291.0	5355.4	5555.5	5706.7	5809.0	6029.0	6062.4	6064.6
5°	3988.2	4068.3	4357.3	4492.9	4790.8	5022.0	5268.7	5624.4	5862.3	5880.1
7.5°	2834.4	3056.8	3179.0	3532.5	3899.3	4261.7	4628.5	5042.0	5317.7	5324.3
10°	2280.9	2425.4	2643.3	2907.8	3216.8	3585.9	4074.9	4555.1	4835.2	4904.2
12.5°	1836.3	2089.7	2338.7	2612.1	2847.8	3125.7	3652.5	4292.8	4524.0	4661.8
15°	1413.9	1645.1	1938.5	2258.7	2525.4	2896.7	3496.9	4228.3	4617.4	4664.1
17.5°	1042.6	1249.4	1520.6	1822.9	2223.1	2750.0	3523.6	4555.1	4921.9	4999.7
20°	749.2	869.2	1082.6	1433.9	1943.0	2578.8	3550.3	4886.4	5444.4	5577.8
22.5°	593.6	642.5	782.5	1093.8	1629.5	2398.7	3739.3	5520.0	6162.4	6355.8
25°	515.8	542.4	609.1	862.6	1431.7	2380.9	4041.6	6280.3	7118.4	7258.4
27.5°	498.0	502.4	560.2	791.4	1325.0	2263.1	4157.2	6820.5	7714.1	7856.4
30°	524.7	595.8	600.2	669.2	1127.1	2029.7	4217.2	7342.9	8218.8	8323.3
32.5°	453.5	431.3	446.8	518.0	991.5	1894.1	4330.6	7798.6	8794.6	8867.9
35°	315.7	331.2	366.8	449.1	867.0	1751.8	4359.5	8301.0	9341.5	9417.0
37.5°	291.2	300.1	329.0	382.4	762.5	1671.8	4319.5	8667.9	9908.3	10012.8
40°	271.2	282.3	297.9	346.8	684.7	1582.8	4263.9	8999.1	10255.2	10513.0
42.5°	255.7	264.5	277.9	331.2	618.0	1493.9	4186.1	9466.0	10566.4	10790.9
45°	237.9	251.2	266.8	322.3	580.2	1433.9	4128.3	9437.1	10746.5	10866.5
47.5°	220.1	242.3	260.1	300.1	569.1	1405.0	4152.7	9328.1	10599.7	10517.5
50°	202.3	231.2	262.3	249.0	542.4	1347.2	4181.6	9477.1	10250.7	10235.1
52.5°	186.7	220.1	244.5	204.5	482.4	1291.6	4461.8	9672.7	10497.5	10290.7
55°	164.5	197.9	195.6	164.5	391.3	1249.4	4681.8	9677.1	10330.7	10408.5
57.5°	148.9	175.6	153.4	137.8	289.0	1044.9	4323.9	8114.3	8843.5	8981.3
60°	137.8	171.2	115.6	108.9	189.0	753.6	3774.8	6284.7	7029.4	7289.5
62.5°	126.7	162.3	91.1	88.9	131.2	535.8	3103.4	5259.8	6057.9	6411.4
65°	111.2	115.6	73.4	68.9	93.4	289.0	1889.6	3621.4	4528.5	4659.6
67.5°	91.1	88.9	60.0	55.6	62.2	140.1	833.7	1814.0	2625.5	2845.6
70°	73.4	73.4	51.1	44.5	44.5	64.5	217.9	722.5	1187.1	1313.9
72.5°	53.4	55.6	40.0	35.6	33.3	31.1	35.6	144.5	311.2	397.9
75°	46.7	48.9	40.0	31.1	24.5	20.0	15.6	13.3	17.8	28.9
77.5°	51.1	51.1	42.2	28.9	22.2	15.6	8.9	4.4	4.4	2.2
80°	64.5	66.7	55.6	37.8	26.7	17.8	11.1	4.4	2.2	2.2
82.5°	68.9	75.6	62.2	46.7	33.3	20.0	11.1	2.2	0.0	0.0
85°	17.8	28.9	48.9	42.2	33.3	20.0	11.1	2.2	0.0	0.0
87.5°	0.0	2.2	6.7	6.7	8.9	8.9	6.7	2.2	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

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