

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: P531927

Luminaire Tested: **GALN-SA7B-730-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531927
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-SA7B-730-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 800mA 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: 19954 lumens
Efficiency: N/A
Efficacy: 69.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

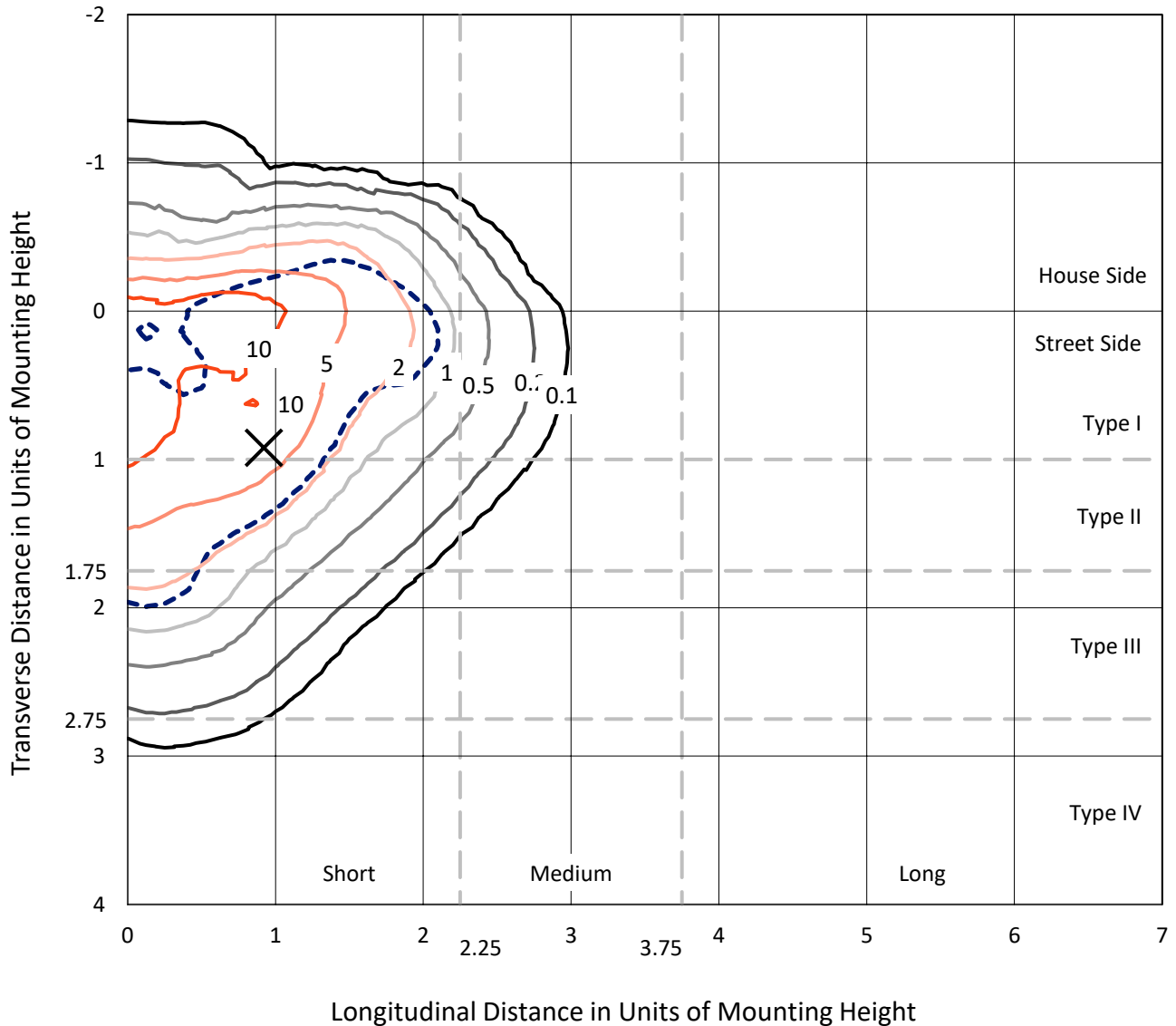
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

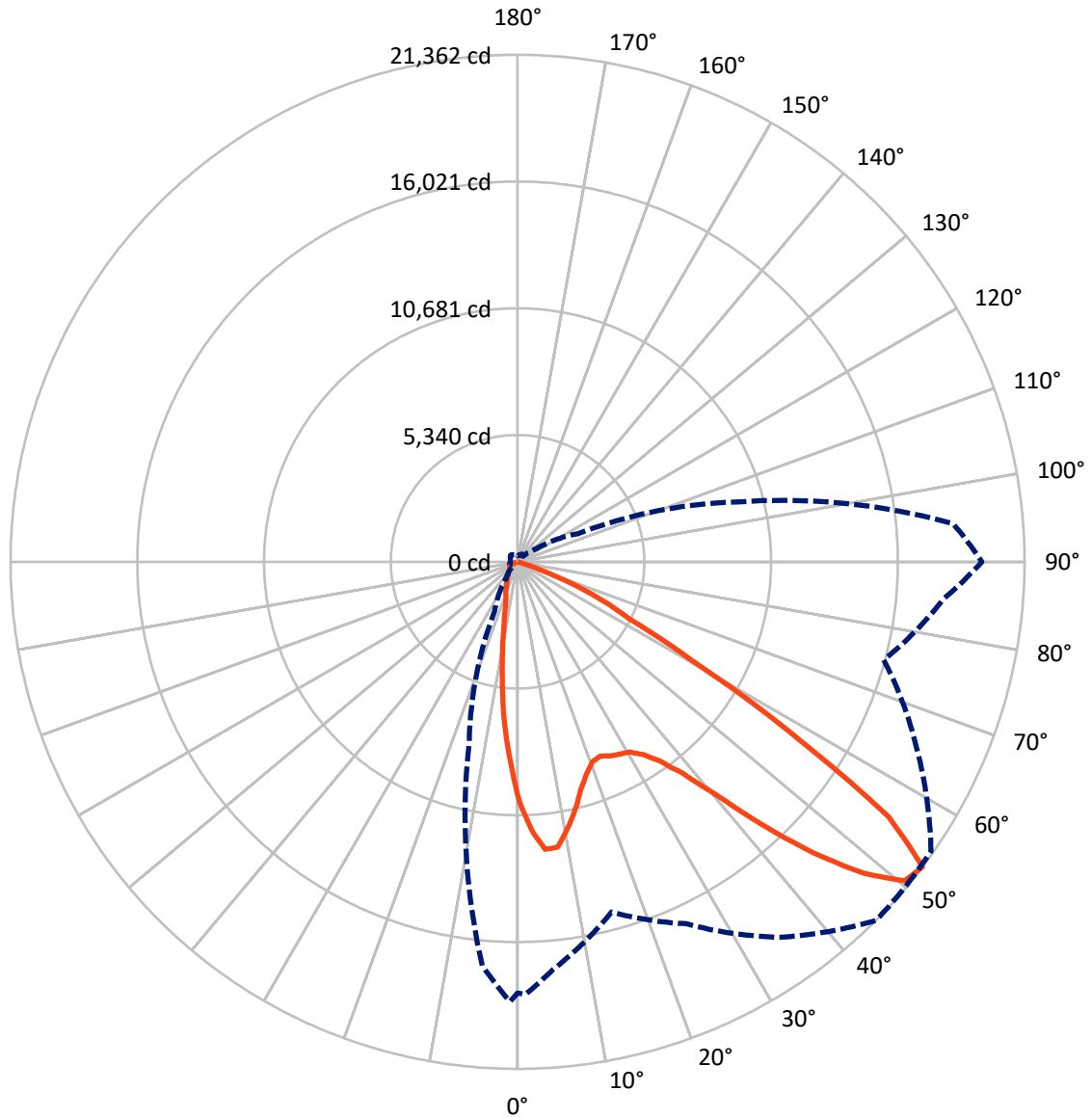
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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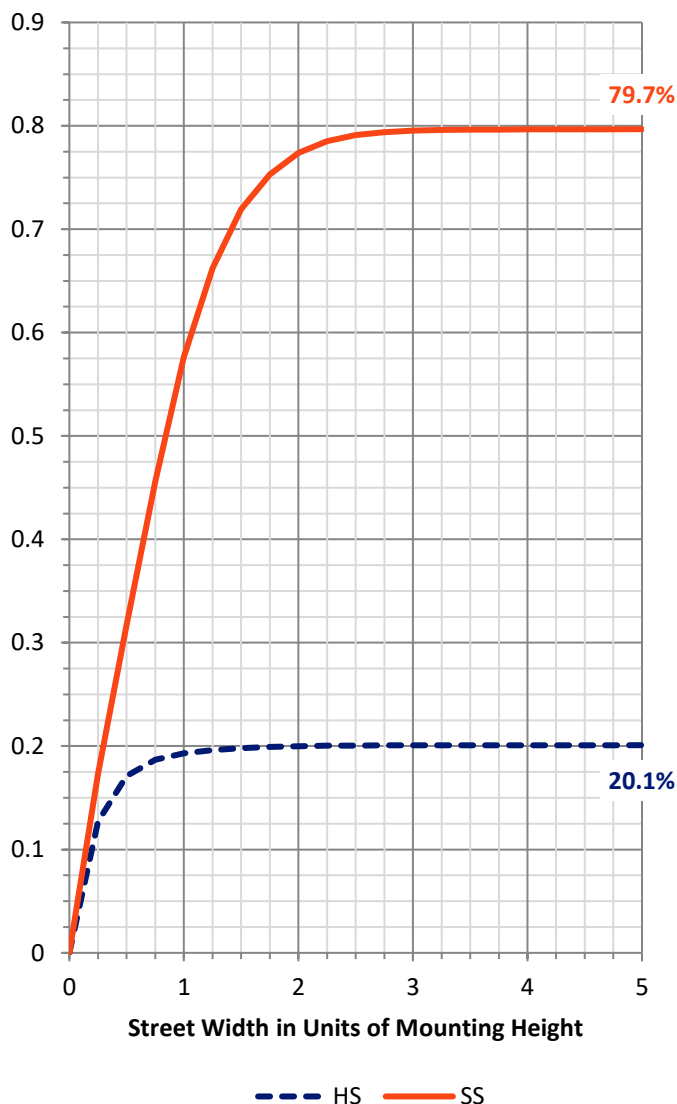
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4049.7	0.0	4049.7
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	15904.3	0.0	15904.3
	% Fixture	79.7	0.0	79.7
Total	Lumens	19954.0	0.0	19954.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	737.9	3.7
10°-20°	1455.8	7.3
20°-30°	2215.4	11.1
30°-40°	3311.2	16.6
40°-50°	4715.5	23.6
50°-60°	5069.0	25.4
60°-70°	2246.2	11.3
70°-80°	181.7	0.9
80°-90°	21.2	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°	19954.0	100.0
0°-180°	19954.0	100.0

Coefficient of Utilization



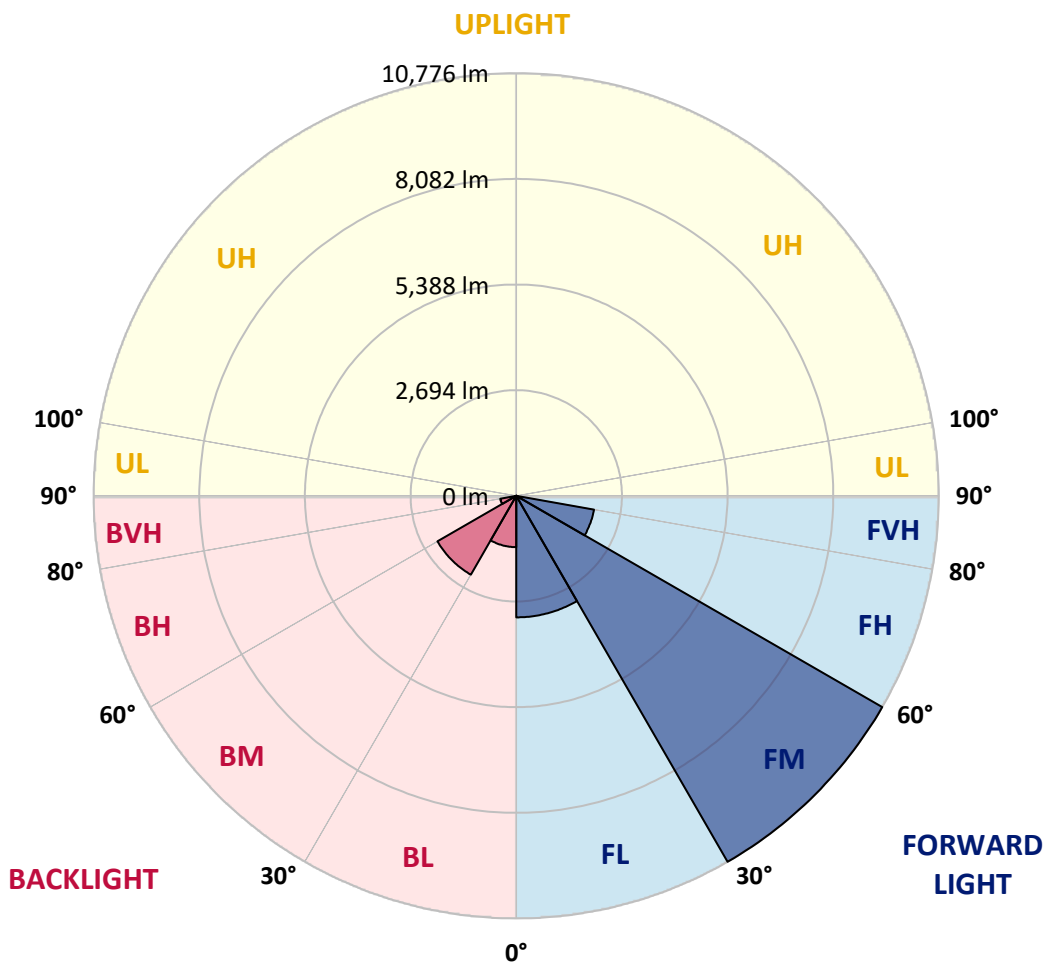
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3099.3	15.5			
FM (30°-60°)	10775.8	54.0			
FH (60°-80°)	2013.6	10.1			G2/5000
FVH (80°-90°)	15.7	0.1			G1/100
BL (0°-30°)	1309.8	6.6	B3/2500		
BM (30°-60°)	2320.0	11.6	B2/2500		
BH (60°-80°)	414.3	2.1	B1/500		G1/500
BVH (80°-90°)	5.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10117.6	10117.6	10117.6	10117.6	10117.6	10117.6	10117.6	10117.6	10117.6	10117.6	10117.6
2.5°	10706.3	10737.7	10910.4	11126.2	11240.0	11499.1	11318.5	11365.6	11267.5	10922.1	10651.4
5°	10380.6	10376.6	10596.4	11130.2	11636.4	12150.5	12166.2	11891.5	11408.8	10879.0	10121.5
7.5°	9399.4	9552.5	9780.1	10631.7	11569.7	11954.3	12138.8	11817.0	11075.2	10317.8	9497.5
10°	8657.7	8736.1	9120.8	10149.0	10835.8	11349.9	11463.7	11279.3	10710.2	9764.4	8846.0
12.5°	8229.9	8269.1	8720.4	9583.9	10309.9	10690.6	10745.5	10831.9	10423.7	9536.8	8434.0
15°	8233.8	8265.2	8873.5	9595.6	9882.1	9780.1	9960.6	9956.7	10133.3	9493.6	8779.3
17.5°	8826.4	8861.7	9411.2	9768.3	9642.7	9403.3	9391.6	9572.1	9944.9	10031.3	9301.3
20°	9846.8	9929.2	10333.5	10313.8	9607.4	9124.7	8991.2	9128.6	9995.9	10486.5	10353.1
22.5°	11220.4	11334.2	11616.8	11075.2	9768.3	8936.3	8893.1	9160.0	10333.5	11503.0	11546.2
25°	12813.8	13006.1	13143.5	12448.8	10341.3	9262.0	9058.0	9517.1	10788.7	12605.8	13065.0
27.5°	13869.5	14069.7	14038.3	13045.4	10725.9	9348.4	9175.7	9603.5	11185.1	12868.7	13857.7
30°	14693.7	14815.3	15035.1	13367.2	11110.5	9591.7	9297.4	9968.5	11314.6	13324.0	14815.3
32.5°	15655.2	15737.6	15753.3	13936.2	11703.1	9897.8	9674.1	10423.7	11887.6	13759.6	15663.1
35°	16624.6	16746.2	16491.1	14638.7	12068.1	10466.9	10302.1	11212.6	12346.8	14211.0	16597.1
37.5°	17676.4	17739.2	17150.5	14929.2	12590.1	11393.1	11302.8	12064.2	13143.5	15027.3	17633.2
40°	18559.4	18618.3	17853.0	15286.3	13139.5	12688.2	12919.8	13689.0	14226.7	15557.1	18151.3
42.5°	19050.0	19187.3	18088.5	15090.1	14242.4	14156.0	15184.3	15455.1	15482.5	15706.2	18614.4
45°	19183.4	19120.6	17699.9	15251.0	15207.8	16569.6	17503.7	17860.8	16730.5	15981.0	18732.1
47.5°	18567.3	18649.7	17126.9	15109.7	16475.4	18398.5	19607.3	20270.5	17660.7	15741.5	18441.7
50°	18068.8	17962.9	16942.5	15007.7	16816.9	19261.9	21126.1	21275.2	18516.2	16035.9	18123.8
52.5°	18166.9	18233.7	17236.8	15278.4	16824.7	19312.9	21361.6	21259.5	18543.7	15969.2	18010.0
55°	18375.0	18080.6	17111.2	14681.9	15698.4	17888.3	18959.7	18802.7	17115.2	15258.8	17731.3
57.5°	15855.4	16310.6	15733.7	13108.1	12884.4	13477.1	13457.4	13940.2	12766.7	13131.7	16141.9
60°	12868.7	12947.2	13163.1	11212.6	8916.7	8712.6	8430.0	8123.9	8590.9	11228.3	14681.9
62.5°	11318.5	11224.3	11993.6	10200.0	6295.1	5270.7	5223.6	5412.0	6628.6	10710.2	13771.4
65°	8226.0	8343.7	8901.0	7915.9	4725.2	4022.7	3952.1	4509.4	5364.9	8583.1	10510.1
67.5°	5023.5	5251.1	5302.1	4882.2	3206.4	2547.1	2445.0	2951.3	3873.6	5553.3	6161.6
70°	2319.4	2594.2	2853.2	2664.8	1856.3	1047.9	989.0	1240.2	1954.4	3194.6	3269.2
72.5°	702.5	706.4	989.0	1032.2	600.5	235.5	208.0	274.7	663.3	1055.7	1110.7
75°	51.0	54.9	133.4	153.1	113.8	58.9	62.8	74.6	141.3	235.5	176.6
77.5°	3.9	3.9	3.9	19.6	35.3	39.2	51.0	58.9	74.6	86.3	78.5
80°	3.9	0.0	3.9	15.7	27.5	39.2	47.1	54.9	58.9	66.7	58.9
82.5°	0.0	0.0	0.0	11.8	27.5	39.2	43.2	58.9	66.7	78.5	66.7
85°	0.0	0.0	0.0	11.8	27.5	43.2	39.2	19.6	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10117.6	10117.6	10117.6	10117.6	10117.6	10117.6	10117.6	10117.6	10117.6	10117.6	10117.6
2.5°	10698.4	10545.4	10196.1	10019.5	9603.5	9544.6	9136.5	9069.7	8932.4	8857.8	8677.3
5°	9787.9	9603.5	9034.4	8555.6	7998.3	7609.8	7311.5	7040.7	6883.7	6738.5	6805.2
7.5°	9046.2	8508.5	7876.7	7076.0	6432.4	6016.4	5561.2	5188.3	4968.5	4819.4	4854.7
10°	8269.1	7919.8	7040.7	6142.0	5364.9	5070.6	4713.4	4426.9	4116.9	3850.0	3724.4
12.5°	8025.8	7507.7	6404.9	5490.5	4901.8	4615.3	4207.2	3877.5	3481.1	3155.4	3041.6
15°	8069.0	7570.5	6232.3	5255.0	4560.4	4065.9	3579.2	3171.1	2735.4	2507.8	2390.1
17.5°	8771.5	7908.1	6346.1	5007.8	4085.5	3398.7	2798.2	2280.2	1954.4	1719.0	1668.0
20°	9634.9	8638.0	6589.4	4827.3	3697.0	2704.0	2044.7	1597.3	1326.5	1287.3	1275.5
22.5°	10898.6	9831.1	7111.4	4705.6	3222.1	2107.5	1401.1	1161.7	1087.1	1079.3	1083.2
25°	12664.7	11326.4	7680.4	4603.5	2865.0	1624.8	1146.0	985.1	961.5	949.8	969.4
27.5°	13430.0	12229.0	7982.6	4383.8	2539.2	1463.9	1130.3	977.2	910.5	890.9	902.7
30°	14375.8	12829.5	8457.5	4007.0	2060.4	1204.9	1055.7	1063.6	1032.2	934.1	902.7
32.5°	15631.7	13579.1	8696.9	3740.1	1840.6	996.8	773.1	710.4	792.8	808.5	835.9
35°	16436.2	14340.5	8818.6	3583.2	1726.8	851.6	655.4	596.5	576.9	580.8	596.5
37.5°	17931.5	15368.7	8971.6	3418.3	1640.5	741.7	592.6	537.7	510.2	510.2	525.9
40°	18826.3	16185.0	9179.6	3328.1	1554.1	675.0	537.7	490.6	467.0	467.0	474.9
42.5°	19050.0	16589.3	9109.0	3296.7	1456.0	659.3	490.6	455.3	427.8	423.9	419.9
45°	19450.3	17205.4	9120.8	3261.3	1354.0	600.5	463.1	423.9	384.6	380.7	376.8
47.5°	19889.8	17648.9	9144.3	3124.0	1255.9	502.3	482.7	392.5	345.4	337.5	337.5
50°	19513.1	18002.1	9348.4	2986.6	1130.3	408.2	474.9	368.9	306.1	294.3	298.3
52.5°	19560.2	18418.1	9780.1	2794.3	973.3	325.7	384.6	349.3	278.6	259.0	262.9
55°	18806.7	17978.6	9839.0	2590.2	761.4	251.2	294.3	306.1	235.5	227.6	227.6
57.5°	16189.0	15223.5	8681.2	2099.7	502.3	208.0	211.9	266.9	204.1	196.2	200.2
60°	13853.8	12221.2	6985.8	1385.4	314.0	164.8	153.1	270.8	180.5	176.6	188.4
62.5°	12629.3	10043.0	5298.2	859.5	215.9	125.6	106.0	219.8	157.0	157.0	172.7
65°	9124.7	6746.4	3080.8	451.3	153.1	98.1	78.5	125.6	129.5	133.4	141.3
67.5°	5651.4	3406.5	1299.0	219.8	102.0	66.7	51.0	78.5	86.3	86.3	94.2
70°	2790.4	1357.9	431.7	125.6	78.5	54.9	35.3	43.2	43.2	39.2	43.2
72.5°	863.4	408.2	109.9	78.5	54.9	35.3	19.6	15.7	7.8	0.0	3.9
75°	98.1	78.5	70.6	54.9	35.3	15.7	3.9	0.0	0.0	0.0	0.0
77.5°	58.9	66.7	66.7	54.9	35.3	11.8	0.0	0.0	0.0	0.0	0.0
80°	47.1	51.0	54.9	51.0	31.4	15.7	0.0	0.0	0.0	0.0	0.0
82.5°	58.9	66.7	74.6	66.7	43.2	19.6	7.8	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	11.8	3.9	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°	10117.6	10117.6	10117.6	10117.6	10117.6	10117.6	10117.6	10117.6	10117.6	10117.6	10117.6
2.5°	8602.7	8516.4	8638.0	8457.5	8453.6	8457.5	8406.5	8359.4	8434.0	8634.1	8653.7
5°	6565.8	6750.3	6809.2	7001.5	6895.5	6738.5	6769.9	6664.0	6923.0	7036.8	6946.5
7.5°	4780.2	4768.4	5164.8	5188.3	5239.3	5243.3	5235.4	5027.4	4815.5	4862.6	5003.9
10°	3708.7	3508.6	3700.9	3681.3	3806.9	3771.5	3822.6	3598.9	3673.4	3673.4	3763.7
12.5°	3021.9	2810.0	2774.7	2723.7	2774.7	2794.3	2813.9	2770.8	2896.4	2955.2	3018.0
15°	2307.7	2189.9	2158.5	2060.4	2076.1	2131.1	2178.2	2197.8	2158.5	2248.8	2256.6
17.5°	1675.8	1671.9	1691.5	1687.6	1671.9	1660.1	1656.2	1605.2	1589.5	1597.3	1628.7
20°	1271.6	1303.0	1369.7	1436.4	1471.7	1428.6	1369.7	1283.3	1248.0	1255.9	1259.8
22.5°	1087.1	1134.2	1224.5	1299.0	1334.4	1255.9	1149.9	1075.3	1059.6	1055.7	1051.8
25°	985.1	1040.0	1106.7	1130.3	1126.4	1079.3	1000.8	969.4	961.5	953.7	918.4
27.5°	930.1	949.8	961.5	989.0	1000.8	969.4	949.8	902.7	894.8	894.8	871.3
30°	898.7	887.0	902.7	883.0	898.7	875.2	879.1	879.1	859.5	867.3	867.3
32.5°	835.9	839.9	839.9	800.6	812.4	784.9	812.4	835.9	839.9	843.8	875.2
35°	612.2	682.9	718.2	718.2	730.0	710.4	706.4	679.0	643.6	608.3	592.6
37.5°	537.7	565.1	612.2	639.7	659.3	643.6	608.3	565.1	545.5	529.8	514.1
40°	478.8	502.3	533.7	565.1	604.4	584.8	529.8	510.2	486.6	486.6	471.0
42.5°	431.7	443.5	463.1	510.2	553.4	514.1	474.9	459.2	447.4	443.5	439.6
45°	388.5	392.5	412.1	451.3	502.3	463.1	423.9	404.2	408.2	412.1	408.2
47.5°	349.3	357.1	368.9	416.0	447.4	427.8	384.6	372.8	372.8	372.8	376.8
50°	302.2	321.8	345.4	384.6	408.2	396.4	361.1	345.4	337.5	337.5	341.4
52.5°	270.8	286.5	317.9	365.0	396.4	376.8	341.4	317.9	302.2	298.3	306.1
55°	235.5	262.9	314.0	349.3	392.5	372.8	333.6	306.1	278.6	274.7	274.7
57.5°	211.9	255.1	302.2	345.4	380.7	365.0	333.6	298.3	262.9	259.0	259.0
60°	200.2	247.2	294.3	333.6	380.7	357.1	329.7	290.4	251.2	251.2	247.2
62.5°	188.4	231.6	278.6	317.9	365.0	345.4	317.9	278.6	239.4	239.4	231.6
65°	157.0	200.2	231.6	266.9	317.9	298.3	270.8	243.3	211.9	204.1	208.0
67.5°	109.9	137.4	168.8	204.1	235.5	227.6	215.9	196.2	168.8	164.8	160.9
70°	54.9	74.6	102.0	137.4	164.8	157.0	149.1	133.4	117.7	113.8	113.8
72.5°	7.8	23.5	43.2	62.8	86.3	90.3	86.3	82.4	78.5	74.6	78.5
75°	0.0	0.0	0.0	15.7	35.3	43.2	51.0	58.9	58.9	51.0	62.8
77.5°	0.0	0.0	0.0	0.0	3.9	19.6	39.2	51.0	62.8	54.9	74.6
80°	0.0	0.0	0.0	0.0	3.9	23.5	39.2	54.9	62.8	54.9	78.5
82.5°	0.0	0.0	0.0	0.0	3.9	27.5	39.2	51.0	58.9	54.9	70.6
85°	0.0	0.0	0.0	0.0	11.8	23.5	15.7	7.8	3.9	3.9	11.8
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: P531927

CATALOG NUMBER: GALN-SA7B-730-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10117.6	10117.6	10117.6	10117.6	10117.6	10117.6	10117.6	10117.6	10117.6	10117.6
2.5°	8763.6	9042.3	9340.5	9454.3	9807.6	10074.4	10255.0	10643.5	10702.4	10706.3
5°	7040.7	7182.0	7692.2	7931.6	8457.5	8865.7	9301.3	9929.2	10349.2	10380.6
7.5°	5003.9	5396.3	5612.2	6236.2	6883.7	7523.4	8171.0	8901.0	9387.6	9399.4
10°	4026.6	4281.7	4666.3	5133.4	5678.9	6330.4	7193.8	8041.5	8536.0	8657.7
12.5°	3241.7	3689.1	4128.7	4611.4	5027.4	5518.0	6448.1	7578.4	7986.6	8229.9
15°	2496.0	2904.2	3422.2	3987.4	4458.3	5113.7	6173.4	7464.6	8151.4	8233.8
17.5°	1840.6	2205.6	2684.4	3218.2	3924.6	4854.7	6220.5	8041.5	8689.1	8826.4
20°	1322.6	1534.5	1911.3	2531.4	3430.1	4552.5	6267.6	8626.3	9611.3	9846.8
22.5°	1047.9	1134.2	1381.5	1930.9	2876.7	4234.6	6601.2	9744.8	10879.0	11220.4
25°	910.5	957.6	1075.3	1522.7	2527.4	4203.2	7134.9	11087.0	12566.6	12813.8
27.5°	879.1	887.0	989.0	1397.2	2339.1	3995.2	7339.0	12040.7	13618.3	13869.5
30°	926.2	1051.8	1059.6	1181.3	1989.8	3583.2	7445.0	12962.9	14509.2	14693.7
32.5°	800.6	761.4	788.8	914.4	1750.4	3343.8	7645.1	13767.5	15525.7	15655.2
35°	557.3	584.8	647.6	792.8	1530.6	3092.6	7696.1	14654.4	16491.1	16624.6
37.5°	514.1	529.8	580.8	675.0	1346.1	2951.3	7625.5	15302.0	17491.9	17676.4
40°	478.8	498.4	525.9	612.2	1208.8	2794.3	7527.4	15886.8	18104.2	18559.4
42.5°	451.3	467.0	490.6	584.8	1091.0	2637.3	7390.0	16710.9	18653.6	19050.0
45°	419.9	443.5	471.0	569.1	1024.3	2531.4	7288.0	16659.9	18971.5	19183.4
47.5°	388.5	427.8	459.2	529.8	1004.7	2480.3	7331.1	16467.6	18712.5	18567.3
50°	357.1	408.2	463.1	439.6	957.6	2378.3	7382.2	16730.5	18096.3	18068.8
52.5°	329.7	388.5	431.7	361.1	851.6	2280.2	7876.7	17075.9	18531.9	18166.9
55°	290.4	349.3	345.4	290.4	690.7	2205.6	8265.2	17083.8	18237.6	18375.0
57.5°	262.9	310.0	270.8	243.3	510.2	1844.6	7633.3	14324.8	15612.0	15855.4
60°	243.3	302.2	204.1	192.3	333.6	1330.4	6664.0	11094.8	12409.6	12868.7
62.5°	223.7	286.5	160.9	157.0	231.6	945.8	5478.7	9285.6	10694.5	11318.5
65°	196.2	204.1	129.5	121.7	164.8	510.2	3335.9	6393.2	7994.4	8226.0
67.5°	160.9	157.0	106.0	98.1	109.9	247.2	1471.7	3202.5	4634.9	5023.5
70°	129.5	129.5	90.3	78.5	78.5	113.8	384.6	1275.5	2095.7	2319.4
72.5°	94.2	98.1	70.6	62.8	58.9	54.9	62.8	255.1	549.4	702.5
75°	82.4	86.3	70.6	54.9	43.2	35.3	27.5	23.5	31.4	51.0
77.5°	90.3	90.3	74.6	51.0	39.2	27.5	15.7	7.8	7.8	3.9
80°	113.8	117.7	98.1	66.7	47.1	31.4	19.6	7.8	3.9	3.9
82.5°	121.7	133.4	109.9	82.4	58.9	35.3	19.6	3.9	0.0	0.0
85°	31.4	51.0	86.3	74.6	58.9	35.3	19.6	3.9	0.0	0.0
87.5°	0.0	3.9	11.8	11.8	15.7	15.7	11.8	3.9	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)