

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: P454873

Luminaire Tested: **GALN-SA6A-730-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454873
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-730-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17736 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

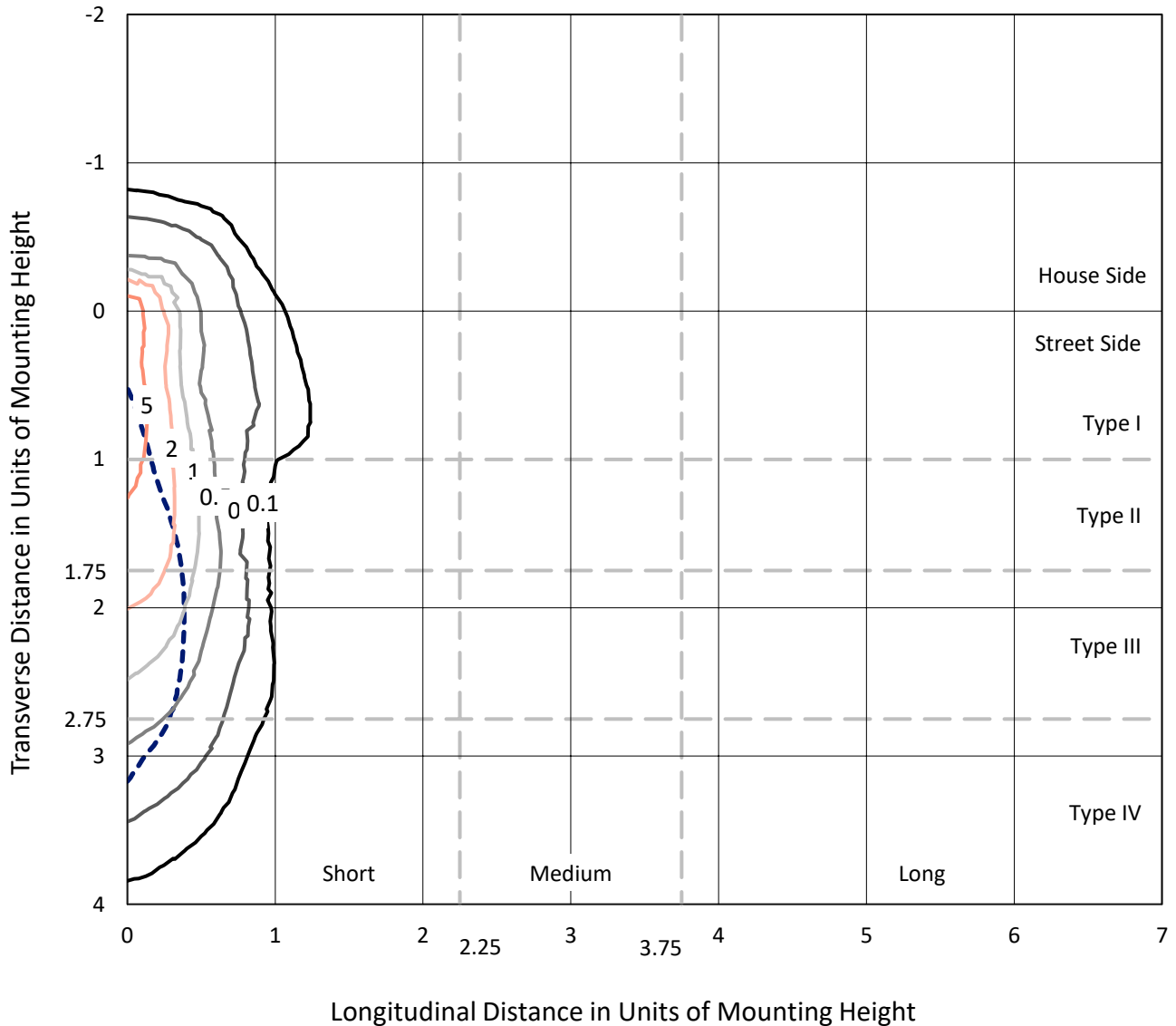
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

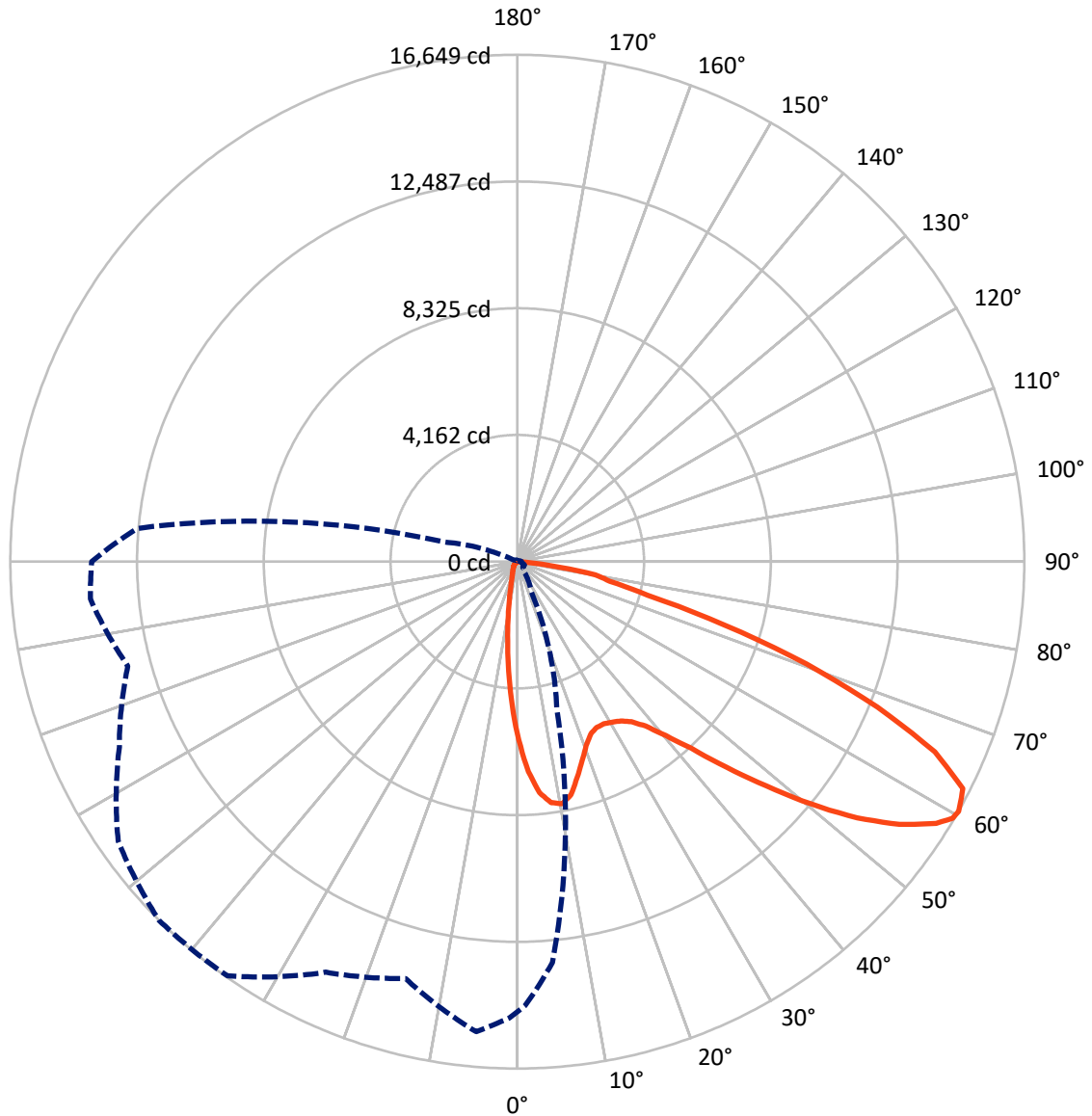
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical



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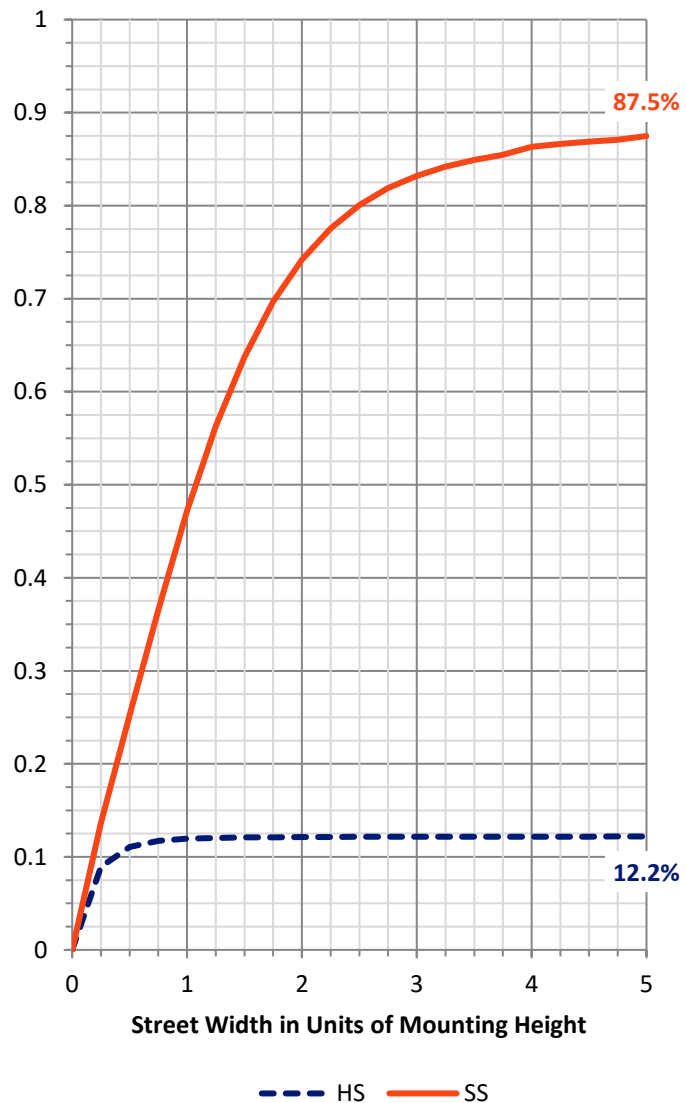
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2187.6	0.0	2187.6
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	15548.4	0.0	15548.4
	% Fixture	87.7	0.0	87.7
Total	Lumens	17736.0	0.0	17736.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	436.0	2.5
10°-20°	865.9	4.9
20°-30°	1269.6	7.2
30°-40°	1888.2	10.6
40°-50°	2747.9	15.5
50°-60°	3962.6	22.3
60°-70°	4358.5	24.6
70°-80°	1952.2	11.0
80°-90°	255.1	1.4
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°	17736.0	100.0
0°-180°	17736.0	100.0



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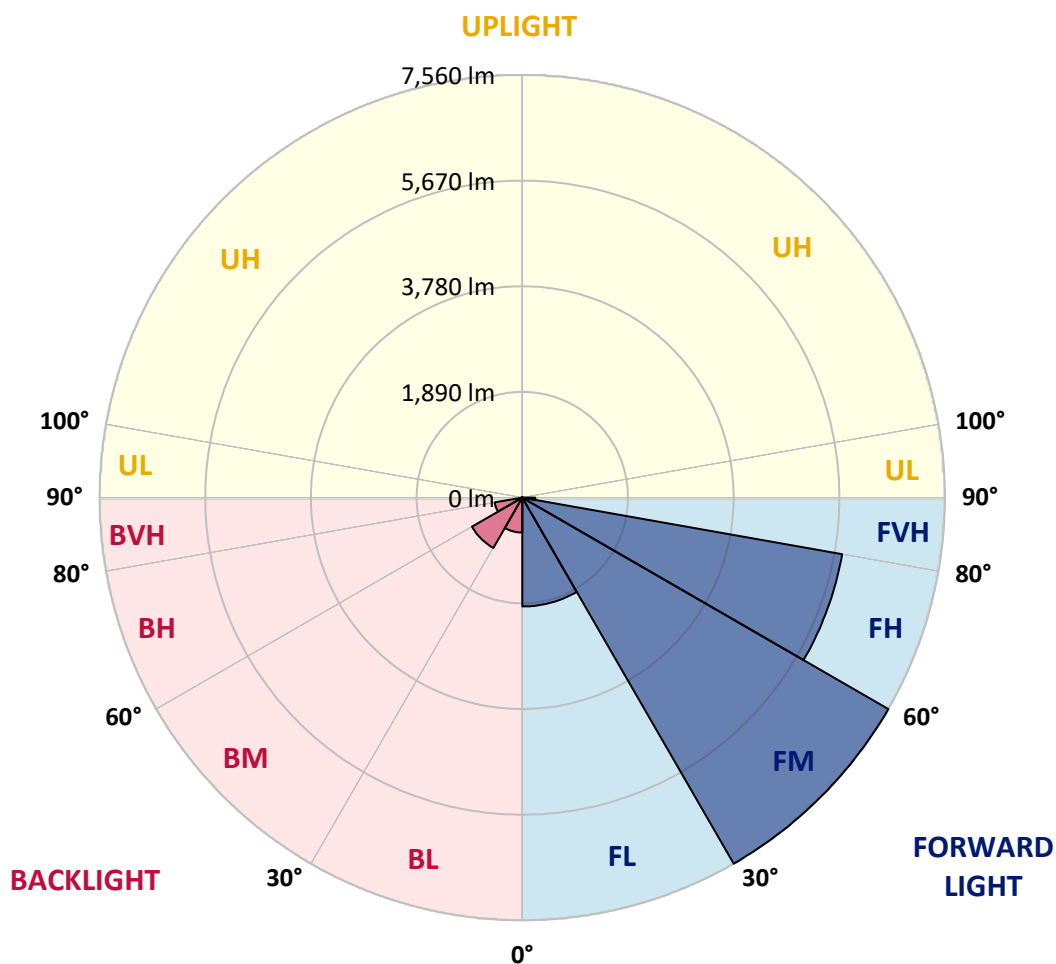
CATALOG NUMBER: GALN-SA6A-730-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1946.5	11.0			
FM	(30°-60°)	7559.6	42.6			
FH	(60°-80°)	5809.1	32.8			G3/7500
FVH	(80°-90°)	233.3	1.3			G3/500
BL	(0°-30°)	625.1	3.5	B2/1000		
BM	(30°-60°)	1039.0	5.9	B2/2500		
BH	(60°-80°)	501.7	2.8	B2/1000		G2/1000
BVH	(80°-90°)	21.8	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5862.0	5862.0	5862.0	5862.0	5862.0	5862.0	5862.0	5862.0	5862.0	5862.0	5862.0
2.5°	6444.4	6416.1	6351.4	6154.6	5983.3	5759.5	5533.0	5355.1	5245.9	5045.0	4953.3
5°	6243.5	6257.0	6069.6	5665.2	5214.9	4907.5	4571.8	4304.8	4010.9	3824.9	3629.4
7.5°	5719.1	5692.1	5488.5	4925.0	4377.6	3932.7	3508.0	3162.9	2945.8	2771.9	2626.3
10°	5270.1	5249.9	4989.7	4264.4	3676.6	3343.6	3056.4	2754.4	2521.1	2266.3	2062.8
12.5°	4988.4	4942.5	4643.2	3885.5	3406.9	3096.8	2784.0	2469.9	2147.7	1890.2	1643.5
15°	4894.0	4827.9	4494.9	3754.8	3234.3	2840.7	2448.3	2087.0	1716.3	1431.8	1245.7
17.5°	5065.2	4956.0	4601.4	3731.8	3028.1	2506.3	2023.7	1553.1	1167.5	950.5	835.9
20°	5457.5	5332.2	4871.1	3708.9	2798.9	2131.5	1538.3	1097.4	807.6	688.9	625.6
22.5°	6040.0	5867.4	5270.1	3745.3	2587.2	1766.2	1110.9	775.2	641.7	567.6	523.1
25°	6739.7	6595.4	5775.7	3874.7	2420.0	1479.0	858.8	633.7	540.6	494.8	461.1
27.5°	7506.8	7276.3	6429.6	4029.8	2267.7	1256.5	753.6	566.2	481.3	439.5	422.0
30°	8052.8	7873.5	6977.0	4137.6	2077.6	1089.4	688.9	558.2	482.7	432.8	400.4
32.5°	8592.1	8362.9	7435.4	4187.5	1938.7	973.4	595.9	486.7	423.3	397.7	365.4
35°	9169.2	8929.2	7892.4	4160.6	1834.9	896.6	540.6	434.1	362.7	319.5	287.2
37.5°	9752.9	9499.5	8346.7	4063.5	1770.2	865.5	497.5	412.6	342.4	298.0	262.9
40°	10445.9	10107.5	8772.8	3983.9	1702.8	849.4	469.2	399.1	327.6	280.4	245.4
42.5°	11012.2	10689.9	9175.9	3942.2	1656.9	811.6	469.2	388.3	318.2	265.6	229.2
45°	11548.7	11214.4	9611.4	3975.9	1638.1	764.4	474.6	386.9	311.4	254.8	218.4
47.5°	11997.7	11707.8	10059.0	4102.6	1613.8	713.2	446.3	405.8	307.4	245.4	207.6
50°	12527.5	12247.1	10650.8	4358.8	1570.7	662.0	411.2	436.8	306.0	237.3	198.2
52.5°	13274.4	12971.1	11467.8	4650.0	1501.9	583.8	378.8	432.8	300.7	223.8	188.7
55°	14187.2	13941.8	12414.3	4999.1	1407.5	496.1	327.6	384.2	284.5	200.9	172.6
57.5°	14772.3	14563.3	13123.4	5150.1	1263.3	405.8	288.5	322.2	260.2	179.3	153.7
59°	14841.1	14652.3	13271.7	5100.3	1168.9	370.8	269.6	276.4	253.5	167.2	142.9
60°	14783.1	14587.6	13212.4	5003.2	1081.3	346.5	253.5	245.4	254.8	160.4	134.8
62.5°	14411.0	14076.6	12636.7	4511.1	945.1	318.2	225.2	200.9	225.2	144.3	120.0
65°	13692.4	13190.9	11497.5	3818.1	891.2	302.0	191.4	168.5	171.2	126.7	103.8
67.5°	12437.2	11804.9	9980.8	3102.2	868.2	303.3	161.8	151.0	132.1	107.9	91.7
70°	10452.6	9821.7	8008.3	2552.2	857.5	303.3	137.5	129.4	110.6	90.3	79.5
72.5°	7407.0	6727.6	5402.3	2004.8	772.5	302.0	117.3	117.3	90.3	75.5	64.7
75°	4184.8	4190.2	3396.1	1418.3	641.7	249.4	94.4	93.0	66.1	58.0	48.5
77.5°	2438.9	2395.8	2289.3	609.4	298.0	113.2	66.1	56.6	45.8	41.8	35.1
80°	1253.8	1031.4	1004.4	221.1	106.5	71.5	45.8	32.4	29.7	27.0	24.3
82.5°	370.8	372.1	331.7	89.0	59.3	47.2	22.9	17.5	16.2	14.8	14.8
85°	25.6	16.2	18.9	27.0	36.4	18.9	1.3	4.0	4.0	5.4	6.7
87.5°	2.7	1.3	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°	5862.0	5862.0	5862.0	5862.0	5862.0	5862.0	5862.0	5862.0	5862.0	5862.0	5862.0
2.5°	4852.2	4911.5	4801.0	4803.7	4712.0	4741.6	4633.8	4668.8	4605.5	4654.0	4796.9
5°	3650.9	3664.4	3575.4	3547.1	3560.6	3615.9	3637.5	3539.0	3580.8	3498.6	3493.2
7.5°	2572.4	2588.6	2537.3	2530.6	2627.7	2604.7	2646.5	2545.4	2449.7	2491.5	2414.6
10°	1998.0	1930.6	1825.5	1795.8	1776.9	1789.1	1789.1	1697.4	1683.9	1647.5	1702.8
12.5°	1577.4	1495.2	1395.4	1260.6	1226.9	1224.2	1174.3	1093.4	1067.8	1036.8	1082.6
15°	1146.0	1112.3	1028.7	953.2	876.3	861.5	780.6	714.5	626.9	614.8	610.7
17.5°	806.2	756.3	755.0	711.9	667.4	637.7	562.2	486.7	453.0	449.0	449.0
20°	604.0	586.5	558.2	552.8	539.3	505.6	438.2	397.7	381.5	382.9	388.3
22.5°	508.3	496.1	470.5	458.4	453.0	423.3	373.5	346.5	338.4	338.4	339.7
25°	454.3	443.6	415.2	396.4	389.6	368.1	329.0	308.7	302.0	302.0	302.0
27.5°	413.9	400.4	370.8	354.6	342.4	318.2	293.9	273.7	266.9	266.9	268.3
30°	385.6	370.8	343.8	322.2	303.3	281.8	261.6	244.0	235.9	234.6	235.9
32.5°	347.8	334.4	307.4	293.9	272.3	246.7	230.5	214.4	206.3	207.6	206.3
35°	271.0	266.9	248.1	252.1	240.0	218.4	203.6	186.1	176.6	175.3	178.0
37.5°	246.7	230.5	209.0	210.3	206.3	198.2	173.9	155.0	148.3	148.3	149.7
40°	227.8	211.7	187.4	175.3	176.6	176.6	151.0	130.8	124.0	122.7	125.4
42.5°	211.7	195.5	168.5	148.3	142.9	149.7	128.1	107.9	101.1	98.4	101.1
45°	200.9	183.4	152.3	129.4	113.2	121.3	105.2	89.0	80.9	80.9	79.5
47.5°	190.1	173.9	140.2	111.9	94.4	90.3	86.3	71.5	63.4	62.0	63.4
50°	180.7	164.5	126.7	97.1	79.5	70.1	70.1	56.6	51.2	48.5	49.9
52.5°	171.2	153.7	114.6	86.3	68.8	56.6	49.9	45.8	41.8	40.4	41.8
55°	157.7	140.2	102.5	74.2	59.3	47.2	39.1	37.7	35.1	32.4	35.1
57.5°	141.6	125.4	90.3	63.4	47.2	36.4	32.4	31.0	28.3	27.0	27.0
59°	132.1	117.3	83.6	55.3	41.8	32.4	29.7	28.3	25.6	22.9	24.3
60°	126.7	114.6	79.5	51.2	37.7	29.7	27.0	25.6	22.9	21.6	22.9
62.5°	111.9	102.5	70.1	41.8	29.7	21.6	18.9	20.2	18.9	17.5	18.9
65°	98.4	90.3	59.3	32.4	22.9	14.8	13.5	17.5	16.2	14.8	16.2
67.5°	87.6	78.2	49.9	24.3	16.2	8.1	9.4	14.8	14.8	13.5	14.8
70°	75.5	67.4	40.4	17.5	8.1	4.0	6.7	10.8	13.5	12.1	13.5
72.5°	62.0	52.6	31.0	12.1	4.0	0.0	4.0	9.4	13.5	12.1	13.5
75°	48.5	39.1	22.9	6.7	0.0	0.0	1.3	8.1	13.5	12.1	13.5
77.5°	35.1	28.3	13.5	1.3	0.0	0.0	1.3	8.1	13.5	12.1	13.5
80°	22.9	20.2	5.4	0.0	0.0	0.0	1.3	8.1	13.5	13.5	14.8
82.5°	14.8	10.8	0.0	0.0	0.0	0.0	2.7	10.8	14.8	16.2	16.2
85°	6.7	0.0	0.0	0.0	0.0	0.0	5.4	13.5	17.5	17.5	17.5
87.5°	0.0	0.0	0.0	0.0	0.0	2.7	9.4	16.2	20.2	20.2	20.2
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°	5862.0	5862.0	5862.0	5862.0	5862.0	5862.0	5862.0	5862.0	5862.0	5862.0	5862.0
2.5°	4821.2	4906.1	5026.1	5210.8	5360.5	5596.4	5777.1	6023.8	6273.2	6348.7	6466.0
5°	3548.5	3657.7	3930.0	4178.1	4334.5	4833.3	5148.8	5646.3	6092.5	6306.9	6540.1
7.5°	2464.5	2593.9	2801.6	3148.1	3477.0	3882.8	4392.5	4961.4	5615.3	5921.3	6250.3
10°	1729.7	1891.5	2184.1	2468.6	2882.5	3268.1	3770.9	4399.2	5120.5	5481.8	5894.4
12.5°	1092.0	1236.3	1623.2	1942.8	2459.1	2906.7	3370.5	3939.5	4775.3	5146.1	5578.9
15°	624.2	745.6	926.2	1336.1	1909.1	2500.9	3079.3	3739.9	4598.7	5055.8	5523.6
17.5°	465.1	497.5	578.4	810.3	1332.0	2023.7	2811.0	3679.3	4718.7	5255.3	5789.2
20°	391.0	412.6	450.3	542.0	849.4	1558.5	2549.5	3690.0	5107.0	5781.1	6288.0
22.5°	350.5	364.0	395.0	454.3	579.7	1135.2	2243.4	3753.4	5577.5	6426.9	7012.0
25°	307.4	324.9	351.9	403.1	482.7	787.4	1941.4	3895.0	6236.8	7246.6	7796.7
27.5°	273.7	289.9	316.8	364.0	423.3	601.3	1589.5	4016.3	6932.5	8071.7	8522.0
30°	240.0	256.2	283.1	320.9	374.8	486.7	1210.7	4087.8	7607.9	8690.5	9037.0
32.5°	211.7	225.2	250.8	284.5	329.0	412.6	954.5	4013.6	8124.3	9252.7	9484.6
35°	183.4	199.5	221.1	252.1	291.2	351.9	794.1	3757.5	8567.9	9831.1	9914.7
37.5°	153.7	172.6	195.5	223.8	254.8	323.6	637.7	3474.3	9042.4	10552.4	10414.9
40°	129.4	147.0	168.5	199.5	227.8	296.6	490.7	3172.3	9554.7	11229.2	10960.9
42.5°	105.2	124.0	149.7	178.0	225.2	258.9	380.2	2859.5	10014.5	11818.4	11454.4
45°	83.6	99.8	126.7	163.1	223.8	222.5	293.9	2550.8	10361.0	12239.0	11822.4
47.5°	66.1	79.5	106.5	159.1	206.3	188.7	235.9	2359.4	10725.0	12617.9	12104.2
50°	52.6	66.1	91.7	165.8	180.7	161.8	198.2	2390.4	11076.9	12810.7	12220.1
52.5°	44.5	58.0	79.5	130.8	138.9	141.6	173.9	2533.3	11531.2	13016.9	12450.7
55°	39.1	51.2	67.4	91.7	107.9	126.7	159.1	2637.1	12139.3	13459.1	12959.0
57.5°	31.0	44.5	60.7	78.2	89.0	110.6	147.0	2645.2	12689.3	14026.7	13634.4
59°	28.3	40.4	56.6	74.2	79.5	99.8	138.9	2576.4	12709.5	14111.7	13944.5
60°	25.6	39.1	53.9	68.8	75.5	94.4	132.1	2496.9	12526.2	13976.9	14072.6
62.5°	21.6	33.7	47.2	55.3	64.7	78.2	114.6	2208.4	11637.7	13366.1	13835.3
65°	18.9	29.7	40.4	45.8	53.9	67.4	101.1	1767.5	10656.2	12538.3	13155.8
67.5°	17.5	27.0	35.1	39.1	47.2	62.0	90.3	1248.4	9384.9	11488.1	12135.2
70°	16.2	25.6	31.0	36.4	41.8	52.6	76.8	728.0	7229.1	9646.4	10330.0
72.5°	16.2	24.3	27.0	31.0	36.4	47.2	71.5	393.7	4942.5	7358.5	8241.6
75°	16.2	22.9	24.3	27.0	32.4	43.1	63.4	206.3	3195.2	5112.4	6309.6
77.5°	16.2	21.6	24.3	25.6	31.0	37.7	55.3	129.4	2128.8	3580.8	4264.4
80°	17.5	21.6	22.9	25.6	29.7	35.1	45.8	86.3	1251.1	2154.4	2595.3
82.5°	18.9	21.6	24.3	27.0	31.0	33.7	40.4	53.9	577.0	1425.1	1612.5
85°	20.2	22.9	25.6	28.3	32.4	33.7	37.7	39.1	94.4	643.1	869.6
87.5°	21.6	24.3	27.0	29.7	35.1	35.1	35.1	35.1	32.4	68.8	175.3
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: P454873

CATALOG NUMBER: GALN-SA6A-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5862.0	5862.0	5862.0	5862.0	5862.0	5862.0	5862.0	5862.0	5862.0	5862.0
2.5°	6614.3	6766.6	6873.2	6900.1	6823.3	6788.2	6691.1	6540.1	6448.5	6444.4
5°	6970.2	7327.5	7575.6	7617.4	7469.1	7218.3	6920.3	6536.1	6311.0	6243.5
7.5°	6909.6	7535.1	7934.2	7992.2	7742.7	7264.1	6687.1	6068.3	5822.9	5719.1
10°	6660.1	7423.2	7993.5	8085.2	7752.2	7078.1	6344.7	5654.4	5349.7	5270.1
12.5°	6447.1	7218.3	7725.2	7852.0	7599.8	6927.1	6139.7	5388.8	5062.5	4988.4
15°	6354.1	6975.6	7285.7	7350.4	7308.6	6832.7	6118.2	5348.3	4974.9	4894.0
17.5°	6447.1	6769.3	6808.4	6874.5	6967.5	6823.3	6325.8	5568.1	5165.0	5065.2
20°	6691.1	6590.0	6428.2	6456.6	6669.6	6862.4	6695.2	6054.8	5564.0	5457.5
22.5°	7106.4	6545.5	6178.8	6154.6	6424.2	6993.1	7237.2	6714.1	6145.1	6040.0
25°	7616.0	6657.4	6087.2	6034.6	6328.5	7184.6	7826.3	7521.6	6900.1	6739.7
27.5°	8171.5	6889.3	6087.2	6035.9	6320.4	7354.5	8330.6	8236.2	7682.1	7506.8
30°	8476.2	7080.8	6174.8	6116.8	6420.2	7452.9	8600.2	8871.2	8269.9	8052.8
32.5°	8748.5	7346.4	6346.0	6236.8	6629.1	7598.5	8841.5	9410.5	8737.7	8592.1
35°	8999.3	7630.8	6581.9	6455.2	6904.2	7798.0	9108.5	9976.7	9388.9	9169.2
37.5°	9275.7	7961.2	6950.0	6842.1	7363.9	8186.3	9425.3	10720.9	10029.3	9752.9
40°	9576.3	8344.0	7555.3	7509.5	8094.6	8625.8	9825.7	11515.0	10760.0	10445.9
42.5°	9882.4	8784.9	8296.9	8372.4	8922.4	9242.0	10236.9	12125.8	11358.6	11012.2
45°	10160.1	9348.5	9260.8	9634.3	9887.7	9843.3	10541.6	12555.8	11880.4	11548.7
47.5°	10510.6	10169.5	10427.0	11002.7	11009.5	10497.1	10772.2	12907.7	12329.3	11997.7
50°	10902.9	11138.9	11933.0	12519.4	12361.7	11140.2	11041.8	13324.3	12793.1	12527.5
52.5°	11357.3	12224.2	13324.3	13975.5	13607.4	11841.3	11490.8	13774.6	13529.3	13274.4
55°	11885.8	12964.4	14711.6	15230.7	14859.9	12712.2	12173.0	14385.4	14361.1	14187.2
57.5°	12483.0	13746.3	15515.2	16217.6	15887.3	13734.2	13126.1	14961.0	14869.4	14772.3
59°	12954.9	14148.1	15869.7	16597.8	16398.2	14450.1	13766.5	15319.7	14986.7	14841.1
60°	13240.7	14420.4	16000.5	16649.0	16603.2	14876.1	14172.3	15494.9	14985.3	14783.1
62.5°	14088.8	14896.3	15950.6	16421.2	16600.5	15693.1	15362.8	15687.7	14707.6	14411.0
65°	14390.8	14738.6	15124.2	15066.2	15219.9	15651.3	16123.2	15476.1	14114.4	13692.4
67.5°	13802.9	13008.8	13145.0	12758.1	12682.6	13914.8	15814.5	14440.6	12953.6	12437.2
70°	11635.0	9965.9	9897.2	10075.1	9587.1	11265.6	14200.7	12446.6	11037.8	10452.6
72.5°	9158.4	7043.0	6463.3	7118.5	7103.7	8594.8	11796.8	8832.1	7456.9	7407.0
75°	7202.1	4903.4	4303.5	4410.0	4614.9	6222.0	9395.7	5608.5	4592.0	4184.8
77.5°	4834.7	3474.3	3241.1	3110.3	3331.4	3994.7	5944.2	3041.6	2575.1	2438.9
80°	2786.7	2523.8	2866.3	2602.0	2720.7	2517.1	2956.6	1395.4	1158.1	1253.8
82.5°	1813.3	1437.2	1531.6	1137.9	1555.8	1569.3	949.1	412.6	349.2	370.8
85°	1133.8	674.1	378.8	269.6	536.6	986.9	296.6	25.6	29.7	25.6
87.5°	293.9	111.9	47.2	70.1	86.3	76.8	68.8	4.0	1.3	2.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)