

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: P455105

Luminaire Tested: **GALN-SA6B-730-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455105  
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-SA6B-730-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 800mA 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: 22069 lumens  
Efficiency: N/A  
Efficacy: 90.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

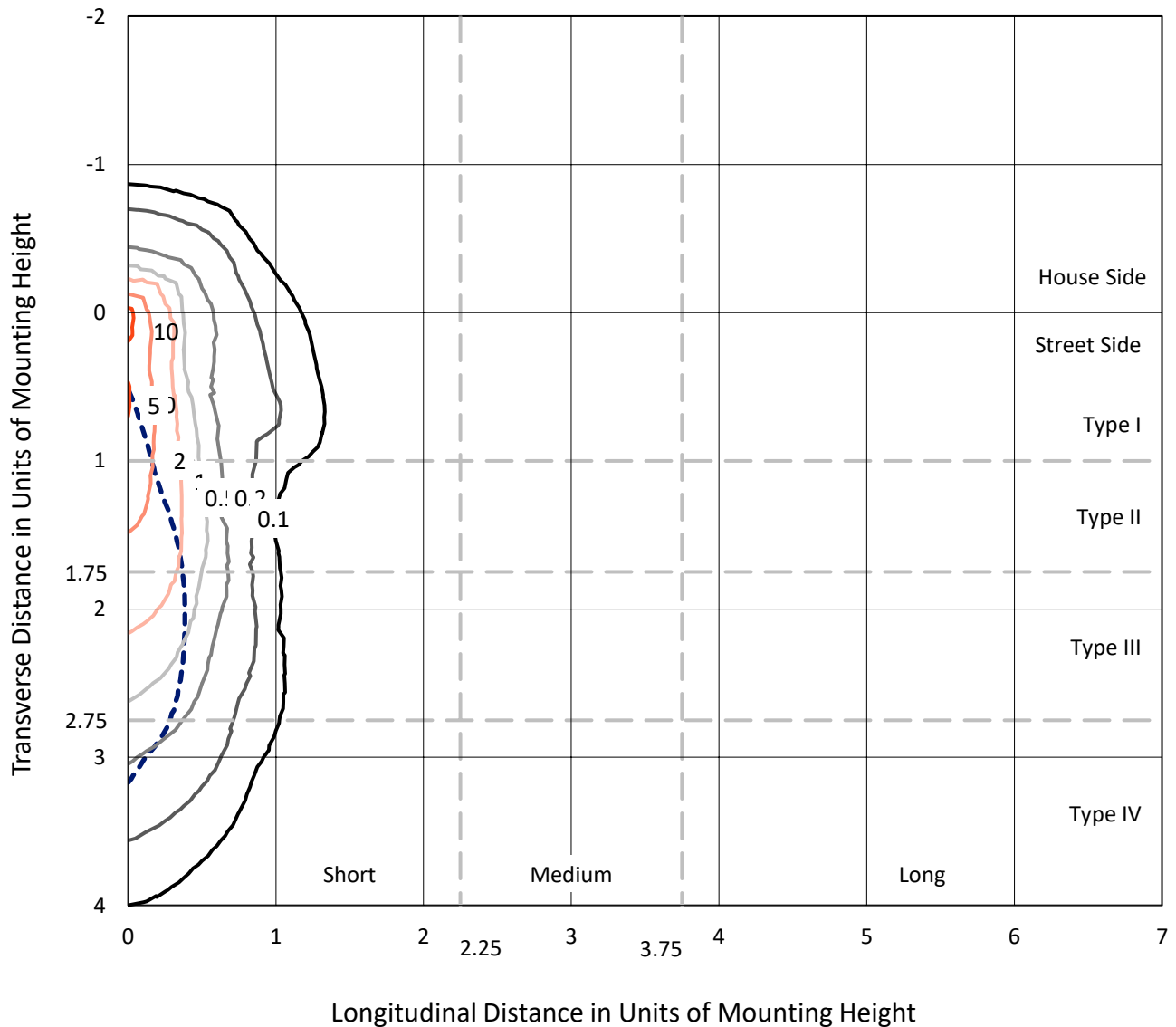
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

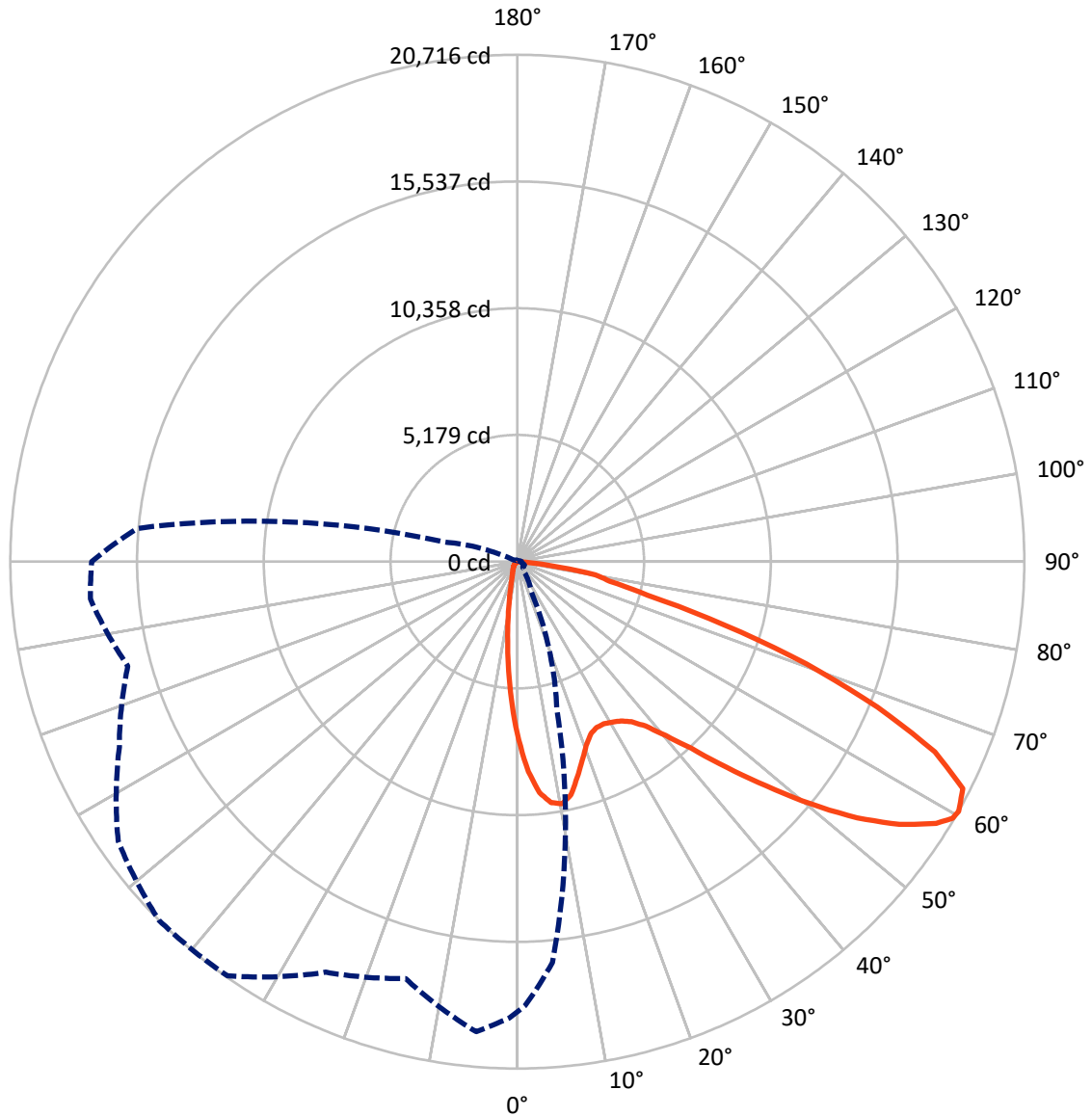
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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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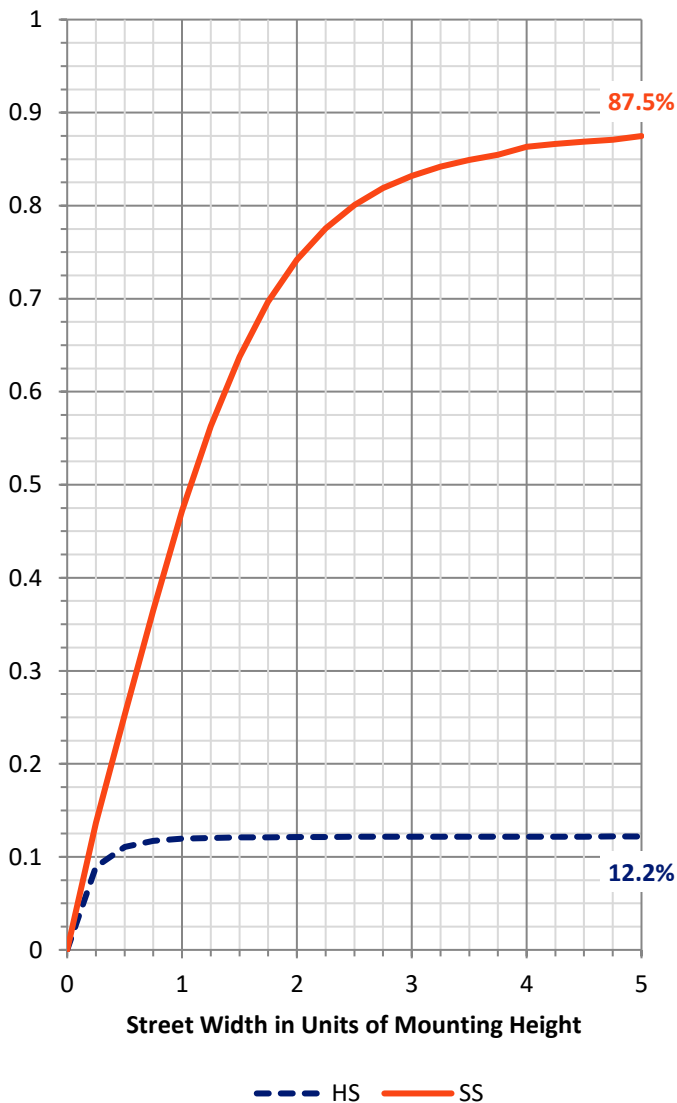
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2722.0	0.0	2722.0
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	19347.0	0.0	19347.0
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	22069.0	0.0	22069.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	542.5	2.5
10°-20°	1077.4	4.9
20°-30°	1579.8	7.2
30°-40°	2349.5	10.6
40°-50°	3419.2	15.5
50°-60°	4930.7	22.3
60°-70°	5423.3	24.6
70°-80°	2429.2	11.0
80°-90°	317.4	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°	22069.0	100.0
0°-180°	22069.0	100.0



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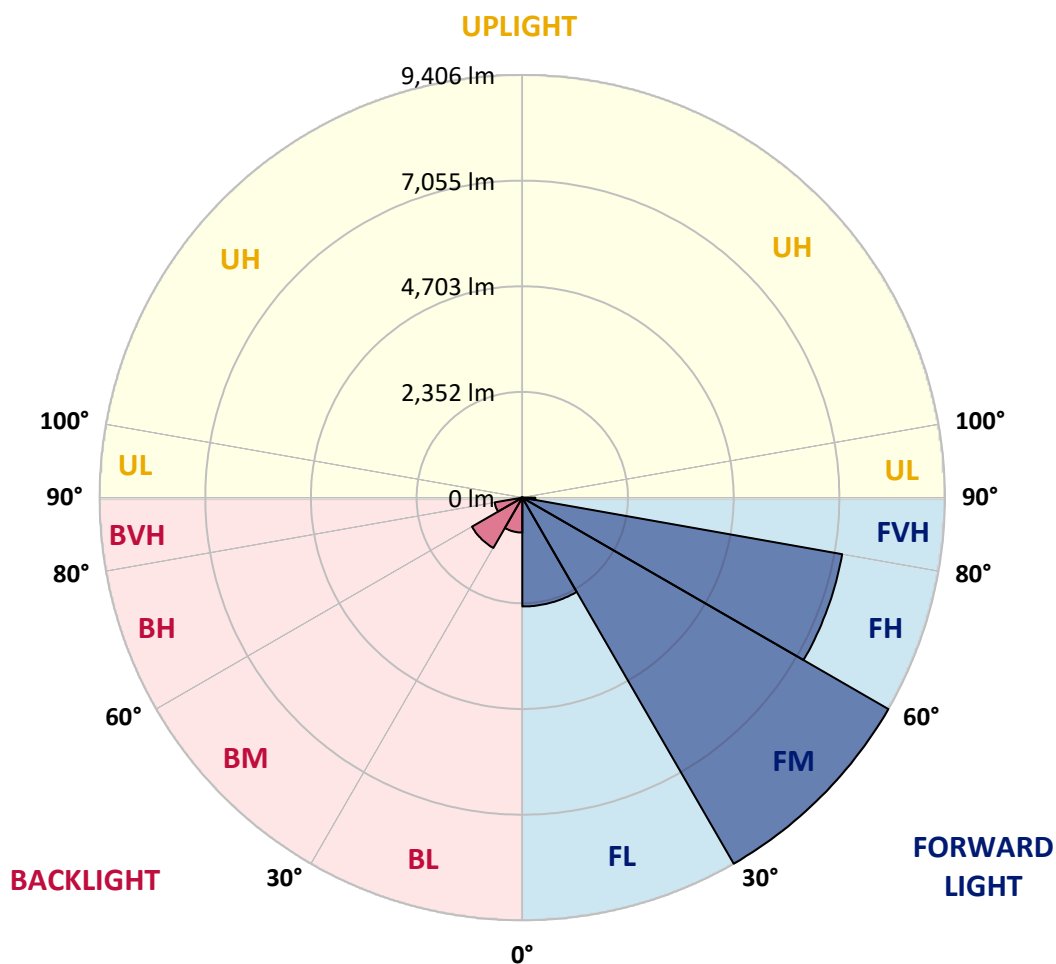
CATALOG NUMBER: GALN-SA6B-730-U-SLR-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2422.0	11.0			
FM	(30°-60°)	9406.5	42.6			
FH	(60°-80°)	7228.3	32.8			G3/7500
FVH	(80°-90°)	290.3	1.3			G3/500
BL	(0°-30°)	777.8	3.5	B2/1000		
BM	(30°-60°)	1292.9	5.9	B2/2500		
BH	(60°-80°)	624.2	2.8	B2/1000		G2/1000
BVH	(80°-90°)	27.1	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°	7294.1	7294.1	7294.1	7294.1	7294.1	7294.1	7294.1	7294.1	7294.1	7294.1	7294.1
2.5°	8018.8	7983.6	7903.1	7658.2	7445.1	7166.6	6884.8	6663.3	6527.5	6277.5	6163.4
5°	7768.9	7785.7	7552.5	7049.2	6488.9	6106.4	5688.7	5356.5	4990.8	4759.3	4516.0
7.5°	7116.3	7082.7	6829.4	6128.2	5447.1	4893.5	4365.1	3935.6	3665.5	3449.1	3267.9
10°	6557.7	6532.5	6208.7	5306.2	4574.8	4160.4	3803.1	3427.3	3137.1	2820.0	2566.7
12.5°	6207.0	6150.0	5777.6	4834.8	4239.2	3853.4	3464.2	3073.3	2672.4	2352.0	2045.0
15°	6089.6	6007.4	5593.1	4672.1	4024.5	3534.7	3046.5	2596.9	2135.6	1781.6	1550.1
17.5°	6302.7	6166.8	5725.6	4643.5	3767.8	3118.6	2518.0	1932.6	1452.8	1182.7	1040.1
20°	6790.8	6634.8	6061.1	4615.0	3482.7	2652.3	1914.1	1365.6	1004.9	857.2	778.4
22.5°	7515.6	7300.8	6557.7	4660.3	3219.3	2197.6	1382.3	964.6	798.5	706.3	650.9
25°	8386.2	8206.7	7186.8	4821.4	3011.3	1840.3	1068.6	788.5	672.7	615.7	573.7
27.5°	9340.8	9053.9	8000.4	5014.3	2821.7	1563.5	937.8	704.6	598.9	546.9	525.1
30°	10020.2	9797.1	8681.5	5148.5	2585.2	1355.5	857.2	694.5	600.6	538.5	498.2
32.5°	10691.2	10406.0	9251.9	5210.6	2412.4	1211.2	741.5	605.6	526.8	494.9	454.6
35°	11409.2	11110.6	9820.6	5177.0	2283.2	1115.6	672.7	540.2	451.3	397.6	357.3
37.5°	12135.6	11820.2	10385.9	5056.2	2202.7	1077.0	619.0	513.3	426.1	370.7	327.1
40°	12997.9	12576.8	10916.0	4957.3	2118.8	1056.9	583.8	496.6	407.7	348.9	305.3
42.5°	13702.5	13301.5	11417.6	4905.2	2061.7	1009.9	583.8	483.1	395.9	330.5	285.2
45°	14370.2	13954.1	11959.5	4947.2	2038.3	951.2	590.5	481.5	387.5	317.1	271.8
47.5°	14928.8	14568.1	12516.4	5104.9	2008.1	887.4	555.3	505.0	382.5	305.3	258.3
50°	15588.1	15239.1	13252.9	5423.6	1954.4	823.7	511.7	543.5	380.8	295.3	246.6
52.5°	16517.5	16140.0	14269.5	5786.0	1868.8	726.4	471.4	538.5	374.1	278.5	234.9
55°	17653.2	17347.9	15447.2	6220.5	1751.4	617.3	407.7	478.1	354.0	250.0	214.7
57.5°	18381.2	18121.2	16329.6	6408.4	1571.9	505.0	359.0	400.9	323.8	223.1	191.2
59°	18466.8	18231.9	16514.1	6346.3	1454.5	461.3	335.5	343.9	315.4	208.0	177.8
60°	18394.7	18151.4	16440.3	6225.5	1345.4	431.1	315.4	305.3	317.1	199.6	167.8
62.5°	17931.7	17515.6	15724.0	5613.2	1176.0	395.9	280.2	250.0	280.2	179.5	149.3
65°	17037.5	16413.4	14306.4	4750.9	1108.9	375.8	238.2	209.7	213.1	157.7	129.2
67.5°	15475.7	14688.9	12419.1	3860.1	1080.4	377.5	201.3	187.9	164.4	134.2	114.1
70°	13006.3	12221.2	9964.8	3175.7	1066.9	377.5	171.1	161.0	137.6	112.4	99.0
72.5°	9216.6	8371.1	6722.1	2494.6	961.3	375.8	145.9	145.9	112.4	93.9	80.5
75°	5207.2	5213.9	4225.8	1764.8	798.5	310.4	117.4	115.8	82.2	72.1	60.4
77.5°	3034.7	2981.1	2848.5	758.3	370.7	140.9	82.2	70.5	57.0	52.0	43.6
80°	1560.1	1283.3	1249.8	275.1	132.5	88.9	57.0	40.3	36.9	33.6	30.2
82.5°	461.3	463.0	412.7	110.7	73.8	58.7	28.5	21.8	20.1	18.5	18.5
85°	31.9	20.1	23.5	33.6	45.3	23.5	1.7	5.0	5.0	6.7	8.4
87.5°	3.4	1.7	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°	7294.1	7294.1	7294.1	7294.1	7294.1	7294.1	7294.1	7294.1	7294.1	7294.1	7294.1
2.5°	6037.6	6111.4	5973.9	5977.2	5863.1	5900.1	5765.8	5809.5	5730.6	5791.0	5968.8
5°	4542.9	4559.7	4448.9	4413.7	4430.5	4499.3	4526.1	4403.6	4455.7	4353.3	4346.6
7.5°	3200.8	3221.0	3157.2	3148.8	3269.6	3241.1	3293.1	3167.3	3048.2	3100.2	3004.5
10°	2486.2	2402.3	2271.4	2234.5	2211.1	2226.1	2226.1	2112.1	2095.3	2050.0	2118.8
12.5°	1962.8	1860.4	1736.3	1568.5	1526.6	1523.2	1461.2	1360.5	1328.6	1290.1	1347.1
15°	1425.9	1384.0	1280.0	1186.0	1090.4	1072.0	971.3	889.1	780.1	765.0	759.9
17.5°	1003.2	941.1	939.4	885.8	830.4	793.5	699.6	605.6	563.7	558.6	558.6
20°	751.6	729.7	694.5	687.8	671.0	629.1	545.2	494.9	474.8	476.4	483.1
22.5°	632.4	617.3	585.5	570.4	563.7	526.8	464.7	431.1	421.1	421.1	422.8
25°	565.3	551.9	516.7	493.2	484.8	458.0	409.3	384.2	375.8	375.8	375.8
27.5°	515.0	498.2	461.3	441.2	426.1	395.9	365.7	340.5	332.2	332.2	333.8
30°	479.8	461.3	427.8	400.9	377.5	350.6	325.5	303.6	293.6	291.9	293.6
32.5°	432.8	416.0	382.5	365.7	338.9	307.0	286.9	266.7	256.7	258.3	256.7
35°	337.2	332.2	308.7	313.7	298.6	271.8	253.3	231.5	219.8	218.1	221.4
37.5°	307.0	286.9	260.0	261.7	256.7	246.6	216.4	192.9	184.5	184.5	186.2
40°	283.5	263.4	233.2	218.1	219.8	219.8	187.9	162.7	154.3	152.7	156.0
42.5°	263.4	243.2	209.7	184.5	177.8	186.2	159.4	134.2	125.8	122.5	125.8
45°	250.0	228.2	189.6	161.0	140.9	151.0	130.9	110.7	100.7	100.7	99.0
47.5°	236.5	216.4	174.5	139.2	117.4	112.4	107.4	88.9	78.8	77.2	78.8
50°	224.8	204.7	157.7	120.8	99.0	87.2	87.2	70.5	63.7	60.4	62.1
52.5°	213.1	191.2	142.6	107.4	85.6	70.5	62.1	57.0	52.0	50.3	52.0
55°	196.3	174.5	127.5	92.3	73.8	58.7	48.6	47.0	43.6	40.3	43.6
57.5°	176.1	156.0	112.4	78.8	58.7	45.3	40.3	38.6	35.2	33.6	33.6
59°	164.4	145.9	104.0	68.8	52.0	40.3	36.9	35.2	31.9	28.5	30.2
60°	157.7	142.6	99.0	63.7	47.0	36.9	33.6	31.9	28.5	26.8	28.5
62.5°	139.2	127.5	87.2	52.0	36.9	26.8	23.5	25.2	23.5	21.8	23.5
65°	122.5	112.4	73.8	40.3	28.5	18.5	16.8	21.8	20.1	18.5	20.1
67.5°	109.0	97.3	62.1	30.2	20.1	10.1	11.7	18.5	18.5	16.8	18.5
70°	93.9	83.9	50.3	21.8	10.1	5.0	8.4	13.4	16.8	15.1	16.8
72.5°	77.2	65.4	38.6	15.1	5.0	0.0	5.0	11.7	16.8	15.1	16.8
75°	60.4	48.6	28.5	8.4	0.0	0.0	1.7	10.1	16.8	15.1	16.8
77.5°	43.6	35.2	16.8	1.7	0.0	0.0	1.7	10.1	16.8	15.1	16.8
80°	28.5	25.2	6.7	0.0	0.0	0.0	1.7	10.1	16.8	16.8	18.5
82.5°	18.5	13.4	0.0	0.0	0.0	0.0	3.4	13.4	18.5	20.1	20.1
85°	8.4	0.0	0.0	0.0	0.0	0.0	6.7	16.8	21.8	21.8	21.8
87.5°	0.0	0.0	0.0	0.0	0.0	3.4	11.7	20.1	25.2	25.2	25.2
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°	7294.1	7294.1	7294.1	7294.1	7294.1	7294.1	7294.1	7294.1	7294.1	7294.1	7294.1
2.5°	5999.0	6104.7	6254.0	6483.8	6670.1	6963.6	7188.4	7495.4	7805.8	7899.7	8045.7
5°	4415.4	4551.3	4890.1	5198.8	5393.4	6014.1	6406.7	7025.7	7581.0	7847.7	8137.9
7.5°	3066.6	3227.7	3486.0	3917.2	4326.5	4831.4	5465.6	6173.5	6987.1	7367.9	7777.3
10°	2152.3	2353.6	2717.7	3071.6	3586.7	4066.5	4692.2	5473.9	6371.5	6821.0	7334.4
12.5°	1358.8	1538.3	2019.8	2417.4	3059.9	3616.9	4194.0	4901.9	5942.0	6403.3	6941.8
15°	776.7	927.7	1152.5	1662.5	2375.5	3111.9	3831.6	4653.6	5722.2	6290.9	6873.0
17.5°	578.8	619.0	719.7	1008.2	1657.4	2518.0	3497.8	4578.1	5871.5	6539.2	7203.5
20°	486.5	513.3	560.3	674.4	1056.9	1939.3	3172.3	4591.5	6354.7	7193.5	7824.2
22.5°	436.2	452.9	491.5	565.3	721.4	1412.5	2791.5	4670.4	6940.2	7997.0	8725.1
25°	382.5	404.3	437.8	501.6	600.6	979.7	2415.7	4846.5	7760.5	9017.0	9701.4
27.5°	340.5	360.7	394.2	452.9	526.8	748.2	1977.9	4997.5	8626.1	10043.7	10604.0
30°	298.6	318.7	352.3	399.3	466.4	605.6	1506.5	5086.4	9466.6	10813.7	11244.8
32.5°	263.4	280.2	312.0	354.0	409.3	513.3	1187.7	4994.2	10109.1	11513.2	11801.8
35°	228.2	248.3	275.1	313.7	362.4	437.8	988.1	4675.4	10661.0	12232.9	12336.9
37.5°	191.2	214.7	243.2	278.5	317.1	402.6	793.5	4323.1	11251.5	13130.4	12959.3
40°	161.0	182.9	209.7	248.3	283.5	369.1	610.6	3947.3	11889.0	13972.6	13638.7
42.5°	130.9	154.3	186.2	221.4	280.2	322.1	473.1	3558.1	12461.1	14705.7	14252.7
45°	104.0	124.1	157.7	203.0	278.5	276.8	365.7	3174.0	12892.2	15229.1	14710.7
47.5°	82.2	99.0	132.5	198.0	256.7	234.9	293.6	2935.8	13345.2	15700.5	15061.3
50°	65.4	82.2	114.1	206.3	224.8	201.3	246.6	2974.4	13783.0	15940.4	15205.6
52.5°	55.4	72.1	99.0	162.7	172.8	176.1	216.4	3152.2	14348.3	16197.0	15492.5
55°	48.6	63.7	83.9	114.1	134.2	157.7	198.0	3281.3	15104.9	16747.3	16124.9
57.5°	38.6	55.4	75.5	97.3	110.7	137.6	182.9	3291.4	15789.4	17453.5	16965.4
59°	35.2	50.3	70.5	92.3	99.0	124.1	172.8	3205.9	15814.6	17559.2	17351.2
60°	31.9	48.6	67.1	85.6	93.9	117.4	164.4	3106.9	15586.4	17391.5	17510.6
62.5°	26.8	41.9	58.7	68.8	80.5	97.3	142.6	2747.9	14480.9	16631.5	17215.3
65°	23.5	36.9	50.3	57.0	67.1	83.9	125.8	2199.3	13259.6	15601.5	16369.8
67.5°	21.8	33.6	43.6	48.6	58.7	77.2	112.4	1553.4	11677.6	14294.7	15099.9
70°	20.1	31.9	38.6	45.3	52.0	65.4	95.6	905.9	8995.2	12003.1	12853.6
72.5°	20.1	30.2	33.6	38.6	45.3	58.7	88.9	489.9	6150.0	9156.2	10255.0
75°	20.1	28.5	30.2	33.6	40.3	53.7	78.8	256.7	3975.9	6361.4	7851.1
77.5°	20.1	26.8	30.2	31.9	38.6	47.0	68.8	161.0	2648.9	4455.7	5306.2
80°	21.8	26.8	28.5	31.9	36.9	43.6	57.0	107.4	1556.8	2680.8	3229.3
82.5°	23.5	26.8	30.2	33.6	38.6	41.9	50.3	67.1	718.0	1773.2	2006.4
85°	25.2	28.5	31.9	35.2	40.3	41.9	47.0	48.6	117.4	800.2	1082.0
87.5°	26.8	30.2	33.6	36.9	43.6	43.6	43.6	43.6	40.3	85.6	218.1
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: P455105

CATALOG NUMBER: GALN-SA6B-730-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7294.1	7294.1	7294.1	7294.1	7294.1	7294.1	7294.1	7294.1	7294.1	7294.1
2.5°	8230.2	8419.8	8552.3	8585.9	8490.2	8446.6	8325.8	8137.9	8023.9	8018.8
5°	8673.1	9117.6	9426.3	9478.3	9293.8	8981.8	8611.0	8132.9	7852.8	7768.9
7.5°	8597.6	9376.0	9872.6	9944.7	9634.3	9038.8	8320.8	7550.8	7245.5	7116.3
10°	8287.2	9236.8	9946.4	10060.5	9646.1	8807.3	7894.7	7035.8	6656.6	6557.7
12.5°	8022.2	8981.8	9612.5	9770.2	9456.5	8619.4	7639.7	6705.3	6299.3	6207.0
15°	7906.4	8679.8	9065.6	9146.2	9094.2	8502.0	7612.9	6655.0	6190.3	6089.6
17.5°	8022.2	8423.1	8471.8	8554.0	8669.7	8490.2	7871.2	6928.4	6426.8	6302.7
20°	8325.8	8200.0	7998.7	8033.9	8299.0	8538.9	8330.9	7534.0	6923.4	6790.8
22.5°	8842.5	8144.7	7688.4	7658.2	7993.7	8701.6	9005.3	8354.4	7646.4	7515.6
25°	9476.7	8283.9	7574.3	7508.9	7874.6	8939.8	9738.4	9359.2	8585.9	8386.2
27.5°	10167.8	8572.4	7574.3	7510.5	7864.5	9151.2	10365.8	10248.3	9558.9	9340.8
30°	10546.9	8810.7	7683.3	7611.2	7988.6	9273.7	10701.3	11038.5	10290.3	10020.2
32.5°	10885.8	9141.1	7896.4	7760.5	8248.7	9454.8	11001.6	11709.5	10872.4	10691.2
35°	11197.8	9495.1	8189.9	8032.3	8590.9	9703.1	11333.7	12414.1	11682.7	11409.2
37.5°	11541.8	9906.1	8647.9	8513.7	9162.9	10186.3	11728.0	13340.1	12479.5	12135.6
40°	11915.9	10382.5	9401.2	9344.1	10072.2	10733.2	12226.2	14328.2	13388.8	12997.9
42.5°	12296.7	10931.1	10323.8	10417.8	11102.2	11499.8	12737.9	15088.2	14133.6	13702.5
45°	12642.2	11632.3	11523.3	11988.0	12303.4	12248.0	13117.0	15623.3	14782.8	14370.2
47.5°	13078.4	12654.0	12974.4	13690.7	13699.1	13061.6	13403.9	16061.2	15341.5	14928.8
50°	13566.6	13860.2	14848.3	15578.0	15381.7	13861.8	13739.4	16579.5	15918.6	15588.1
52.5°	14131.9	15210.6	16579.5	17389.8	16931.8	14734.2	14298.0	17139.8	16834.5	16517.5
55°	14789.5	16131.6	18305.8	18951.6	18490.3	15817.9	15146.9	17899.8	17869.6	17653.2
57.5°	15532.7	17104.6	19305.6	20179.6	19768.6	17089.5	16332.9	18616.1	18502.0	18381.2
59°	16119.9	17604.5	19746.8	20652.7	20404.4	17980.3	17129.8	19062.3	18648.0	18466.8
60°	16475.5	17943.4	19909.5	20716.4	20659.4	18510.4	17634.7	19280.4	18646.3	18394.7
62.5°	17530.7	18535.6	19847.5	20432.9	20656.0	19527.0	19116.0	19520.3	18300.7	17931.7
65°	17906.5	18339.3	18819.1	18747.0	18938.2	19475.0	20062.2	19256.9	17562.6	17037.5
67.5°	17175.1	16187.0	16356.4	15874.9	15781.0	17314.3	19678.0	17968.6	16118.2	15475.7
70°	14477.5	12400.7	12315.1	12536.6	11929.3	14017.9	17670.0	15487.4	13734.4	13006.3
72.5°	11395.8	8763.7	8042.3	8857.6	8839.2	10694.6	14678.8	10989.8	9278.7	9216.6
75°	8961.6	6101.4	5354.8	5487.4	5742.4	7742.0	11691.1	6978.7	5713.8	5207.2
77.5°	6015.8	4323.1	4032.9	3870.2	4145.3	4970.7	7396.5	3784.6	3204.2	3034.7
80°	3467.6	3140.4	3566.5	3237.7	3385.4	3132.0	3678.9	1736.3	1441.0	1560.1
82.5°	2256.3	1788.3	1905.7	1415.9	1935.9	1952.7	1181.0	513.3	434.5	461.3
85°	1410.8	838.8	471.4	335.5	667.7	1228.0	369.1	31.9	36.9	31.9
87.5°	365.7	139.2	58.7	87.2	107.4	95.6	85.6	5.0	1.7	3.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)