

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: P457889

Luminaire Tested: **GALN-SA9B-730-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457889  
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-SA9B-730-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 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: 33738 lumens  
Efficiency: N/A  
Efficacy: 92.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

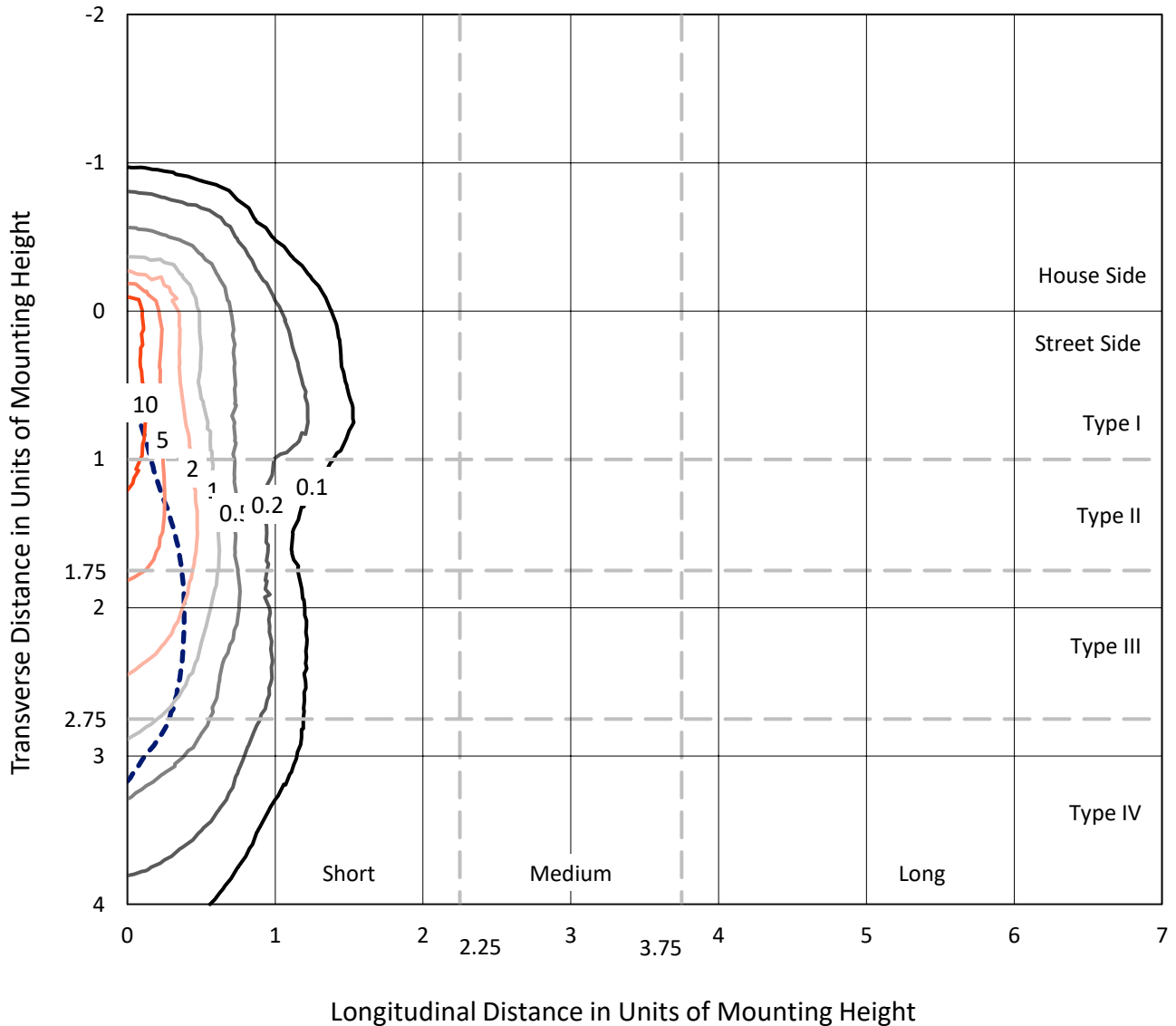
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

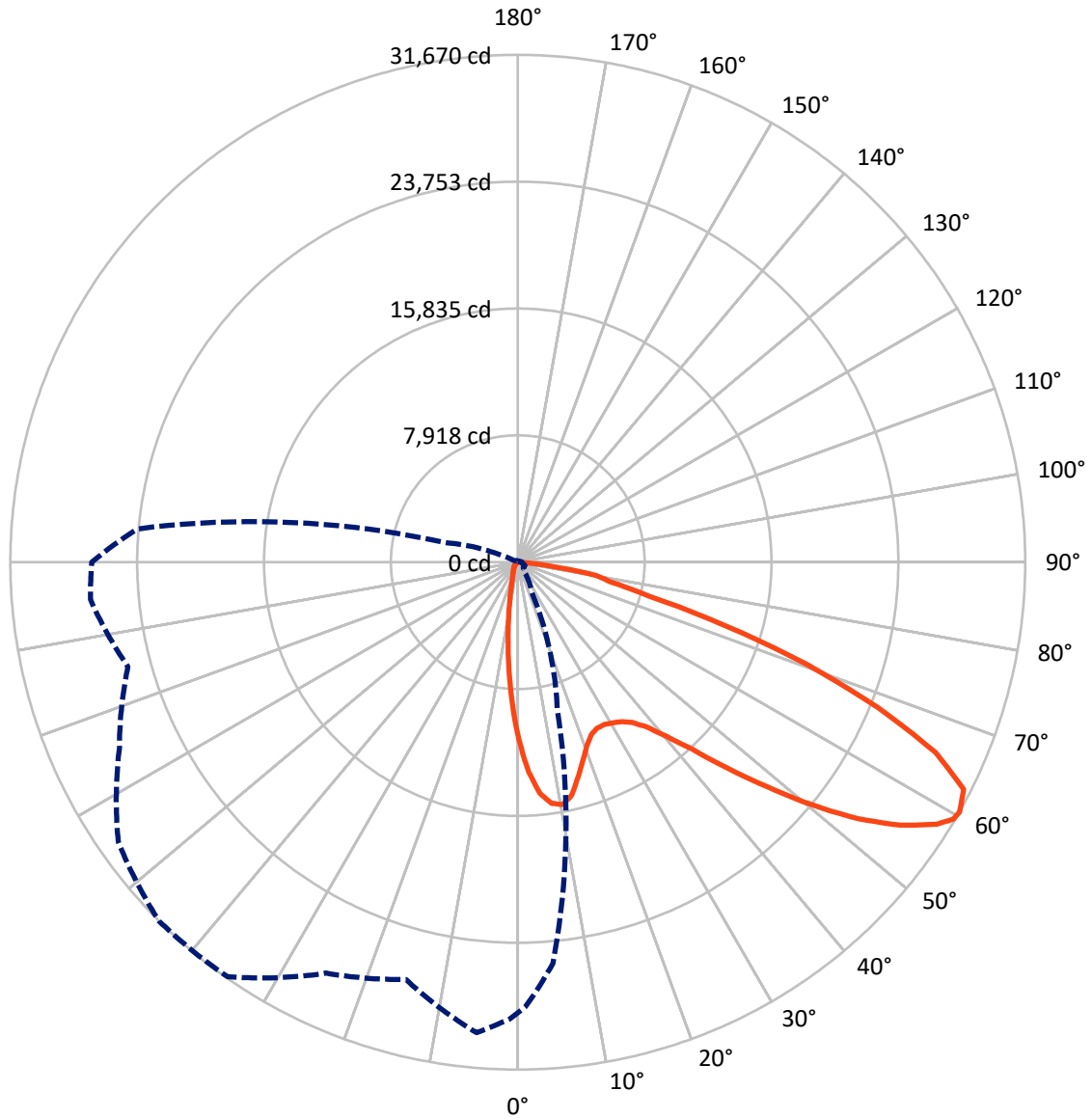
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.8 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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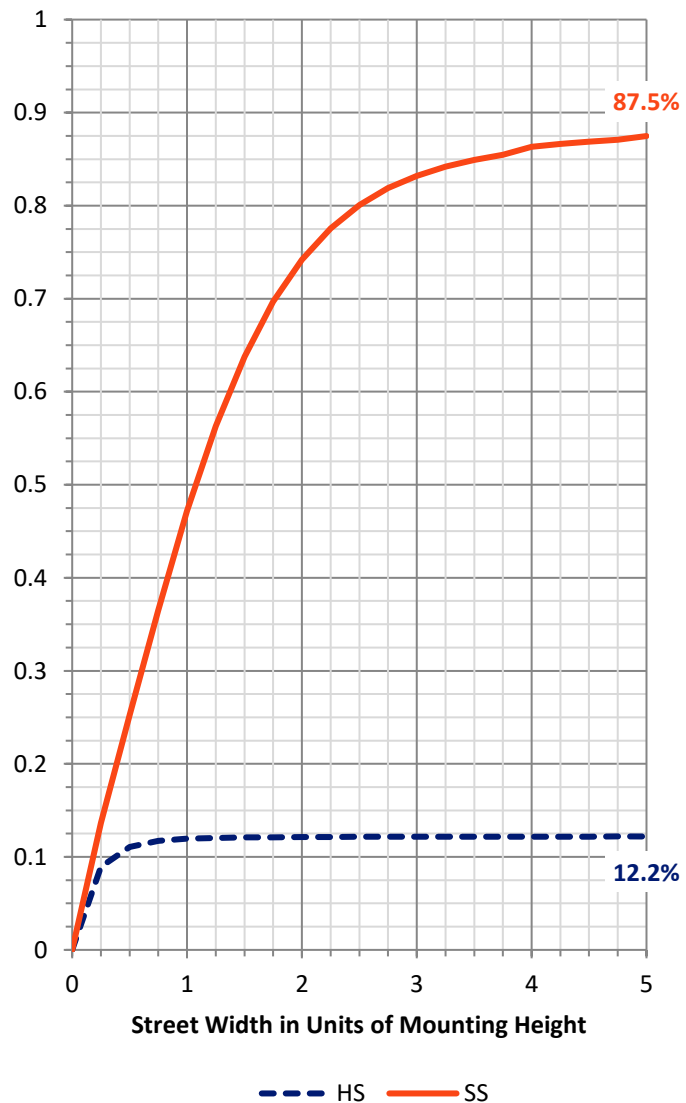
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4161.2	0.0	4161.2
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	29576.8	0.0	29576.8
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	33738.0	0.0	33738.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	829.4	2.5
10°-20°	1647.1	4.9
20°-30°	2415.1	7.2
30°-40°	3591.7	10.6
40°-50°	5227.1	15.5
50°-60°	7537.9	22.3
60°-70°	8290.8	24.6
70°-80°	3713.6	11.0
80°-90°	485.2	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°	33738.0	100.0
0°-180°	33738.0	100.0



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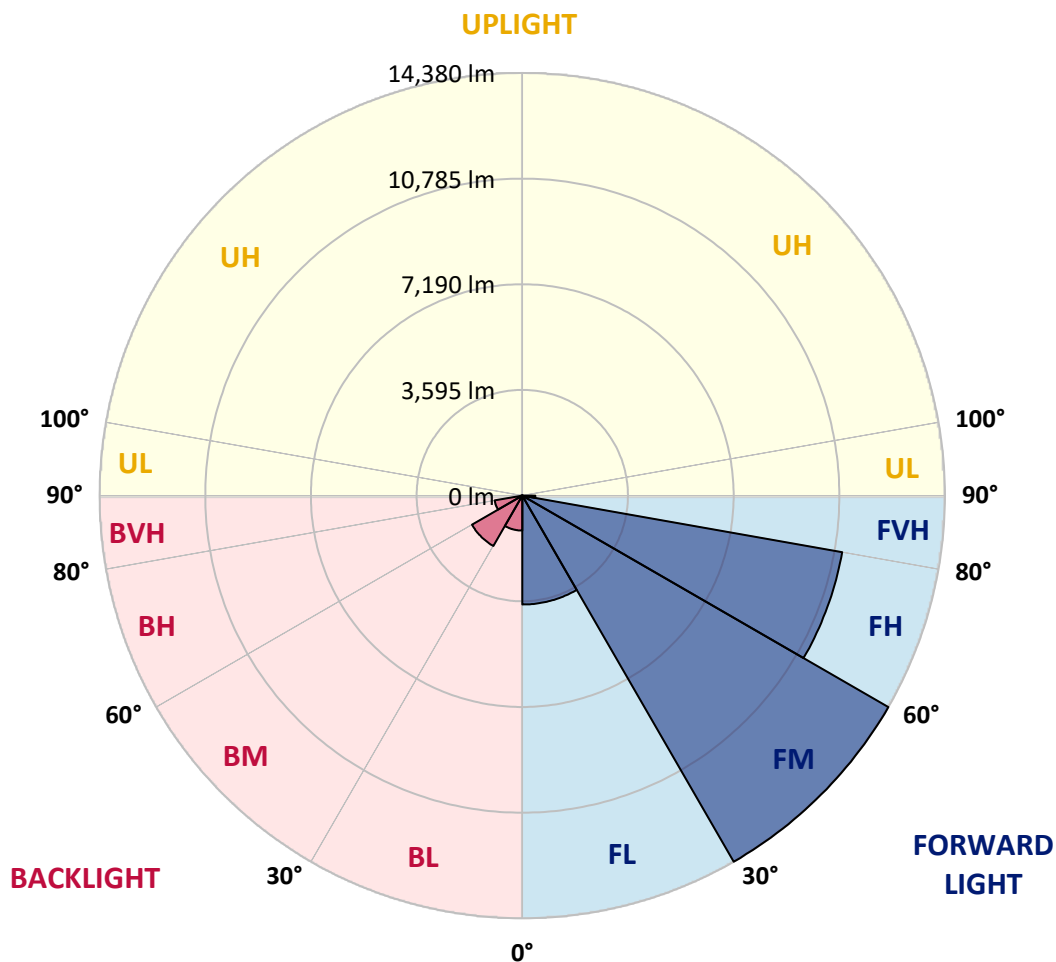
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3702.6	11.0			
FM	(30°-60°)	14380.2	42.6			
FH	(60°-80°)	11050.2	32.8			G4/12000
FVH	(80°-90°)	443.8	1.3			G3/500
BL	(0°-30°)	1189.0	3.5	B3/2500		
BM	(30°-60°)	1976.5	5.9	B2/2500		
BH	(60°-80°)	954.3	2.8	B2/1000		G2/1000
BVH	(80°-90°)	41.5	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11150.9	11150.9	11150.9	11150.9	11150.9	11150.9	11150.9	11150.9	11150.9	11150.9	11150.9
2.5°	12258.8	12204.9	12081.8	11707.4	11381.7	10956.0	10525.1	10186.6	9978.9	9596.7	9422.3
5°	11876.7	11902.3	11545.8	10776.5	9919.9	9335.2	8696.6	8188.8	7629.7	7275.8	6903.9
7.5°	10879.0	10827.8	10440.5	9368.5	8327.3	7480.9	6673.1	6016.6	5603.7	5272.8	4995.8
10°	10025.0	9986.6	9491.6	8111.8	6993.7	6360.2	5814.0	5239.5	4795.8	4311.1	3923.8
12.5°	9489.0	9401.8	8832.5	7391.2	6480.8	5890.9	5295.9	4698.4	4085.4	3595.6	3126.3
15°	9309.5	9183.8	8550.4	7142.4	6152.5	5403.6	4657.3	3970.0	3264.7	2723.6	2369.7
17.5°	9635.2	9427.5	8753.0	7098.8	5760.1	4767.6	3849.5	2954.4	2220.9	1808.0	1590.1
20°	10381.5	10143.0	9265.9	7055.2	5324.1	4054.6	2926.2	2087.6	1536.2	1310.5	1190.0
22.5°	11489.4	11161.1	10025.0	7124.5	4921.5	3359.6	2113.2	1474.6	1220.8	1079.7	995.1
25°	12820.4	12546.0	10986.8	7370.7	4603.5	2813.4	1633.7	1205.4	1028.4	941.2	877.1
27.5°	14279.7	13841.2	12230.6	7665.6	4313.7	2390.2	1433.6	1077.1	915.6	836.1	802.7
30°	15318.4	14977.3	13271.8	7870.8	3952.1	2072.2	1310.5	1061.7	918.1	823.2	761.7
32.5°	16344.2	15908.2	14143.8	7965.7	3687.9	1851.6	1133.6	925.8	805.3	756.6	695.0
35°	17441.9	16985.4	15013.2	7914.4	3490.4	1705.5	1028.4	825.8	689.9	607.8	546.3
37.5°	18552.3	18070.2	15877.5	7729.7	3367.3	1646.5	946.3	784.8	651.4	566.8	500.1
40°	19870.5	19226.8	16687.9	7578.4	3239.1	1615.7	892.5	759.1	623.2	533.4	466.8
42.5°	20947.7	20334.7	17454.7	7498.9	3151.9	1543.9	892.5	738.6	605.2	505.2	436.0
45°	21968.4	21332.4	18283.1	7563.0	3116.0	1454.1	902.7	736.0	592.4	484.7	415.5
47.5°	22822.4	22271.0	19134.5	7804.1	3069.8	1356.7	848.9	771.9	584.7	466.8	394.9
50°	23830.3	23296.8	20260.4	8291.4	2987.8	1259.2	782.2	830.9	582.2	451.4	377.0
52.5°	25251.1	24674.0	21814.5	8845.3	2857.0	1110.5	720.7	823.2	571.9	425.7	359.0
55°	26987.3	26520.6	23614.9	9509.5	2677.4	943.8	623.2	730.9	541.1	382.1	328.3
57.5°	28100.3	27702.8	24963.8	9796.8	2403.0	771.9	548.8	612.9	495.0	341.1	292.4
59°	28231.1	27872.1	25245.9	9701.9	2223.5	705.3	512.9	525.7	482.1	318.0	271.8
60°	28120.9	27749.0	25133.1	9517.2	2056.8	659.1	482.1	466.8	484.7	305.2	256.5
62.5°	27413.0	26777.0	24038.0	8581.2	1797.8	605.2	428.3	382.1	428.3	274.4	228.2
65°	26046.1	25092.1	21870.9	7263.0	1695.2	574.5	364.2	320.6	325.7	241.1	197.5
67.5°	23658.5	22455.7	18985.8	5901.2	1651.6	577.0	307.8	287.2	251.3	205.2	174.4
70°	19883.4	18683.1	15233.7	4854.8	1631.1	577.0	261.6	246.2	210.3	171.8	151.3
72.5°	14089.9	12797.4	10276.4	3813.6	1469.5	574.5	223.1	223.1	171.8	143.6	123.1
75°	7960.5	7970.8	6460.2	2698.0	1220.8	474.5	179.5	177.0	125.7	110.3	92.3
77.5°	4639.4	4557.3	4354.7	1159.2	566.8	215.4	125.7	107.7	87.2	79.5	66.7
80°	2385.1	1961.9	1910.6	420.6	202.6	135.9	87.2	61.6	56.4	51.3	46.2
82.5°	705.3	707.8	630.9	169.3	112.8	89.8	43.6	33.3	30.8	28.2	28.2
85°	48.7	30.8	35.9	51.3	69.2	35.9	2.6	7.7	7.7	10.3	12.8
87.5°	5.1	2.6	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°	11150.9	11150.9	11150.9	11150.9	11150.9	11150.9	11150.9	11150.9	11150.9	11150.9	11150.9
2.5°	9230.0	9342.8	9132.5	9137.7	8963.3	9019.7	8814.5	8881.2	8760.7	8853.0	9124.9
5°	6944.9	6970.6	6801.3	6747.5	6773.1	6878.3	6919.3	6732.1	6811.6	6655.1	6644.9
7.5°	4893.3	4924.0	4826.6	4813.8	4998.4	4954.8	5034.3	4842.0	4659.9	4739.4	4593.2
10°	3800.7	3672.5	3472.5	3416.1	3380.1	3403.2	3403.2	3228.8	3203.2	3133.9	3239.1
12.5°	3000.6	2844.1	2654.4	2397.9	2333.8	2328.7	2233.8	2079.9	2031.2	1972.2	2059.4
15°	2179.9	2115.8	1956.8	1813.2	1667.0	1638.8	1484.9	1359.2	1192.5	1169.5	1161.8
17.5°	1533.6	1438.7	1436.2	1354.1	1269.5	1213.1	1069.4	925.8	861.7	854.0	854.0
20°	1148.9	1115.6	1061.7	1051.5	1025.8	961.7	833.5	756.6	725.8	728.3	738.6
22.5°	966.9	943.8	895.0	872.0	861.7	805.3	710.4	659.1	643.7	643.7	646.3
25°	864.3	843.8	789.9	754.0	741.2	700.1	625.8	587.3	574.5	574.5	574.5
27.5°	787.3	761.7	705.3	674.5	651.4	605.2	559.1	520.6	507.8	507.8	510.4
30°	733.5	705.3	654.0	612.9	577.0	536.0	497.5	464.2	448.8	446.2	448.8
32.5°	661.7	636.0	584.7	559.1	518.0	469.3	438.5	407.8	392.4	394.9	392.4
35°	515.5	507.8	471.9	479.6	456.5	415.5	387.3	353.9	336.0	333.4	338.5
37.5°	469.3	438.5	397.5	400.1	392.4	377.0	330.8	294.9	282.1	282.1	284.7
40°	433.4	402.6	356.5	333.4	336.0	336.0	287.2	248.8	235.9	233.4	238.5
42.5°	402.6	371.9	320.6	282.1	271.8	284.7	243.6	205.2	192.3	187.2	192.3
45°	382.1	348.8	289.8	246.2	215.4	230.8	200.0	169.3	153.9	153.9	151.3
47.5°	361.6	330.8	266.7	212.9	179.5	171.8	164.1	135.9	120.5	118.0	120.5
50°	343.7	312.9	241.1	184.7	151.3	133.4	133.4	107.7	97.5	92.3	94.9
52.5°	325.7	292.4	218.0	164.1	130.8	107.7	94.9	87.2	79.5	76.9	79.5
55°	300.1	266.7	194.9	141.1	112.8	89.8	74.4	71.8	66.7	61.6	66.7
57.5°	269.3	238.5	171.8	120.5	89.8	69.2	61.6	59.0	53.9	51.3	51.3
59°	251.3	223.1	159.0	105.1	79.5	61.6	56.4	53.9	48.7	43.6	46.2
60°	241.1	218.0	151.3	97.5	71.8	56.4	51.3	48.7	43.6	41.0	43.6
62.5°	212.9	194.9	133.4	79.5	56.4	41.0	35.9	38.5	35.9	33.3	35.9
65°	187.2	171.8	112.8	61.6	43.6	28.2	25.6	33.3	30.8	28.2	30.8
67.5°	166.7	148.7	94.9	46.2	30.8	15.4	18.0	28.2	28.2	25.6	28.2
70°	143.6	128.2	76.9	33.3	15.4	7.7	12.8	20.5	25.6	23.1	25.6
72.5°	118.0	100.0	59.0	23.1	7.7	0.0	7.7	18.0	25.6	23.1	25.6
75°	92.3	74.4	43.6	12.8	0.0	0.0	2.6	15.4	25.6	23.1	25.6
77.5°	66.7	53.9	25.6	2.6	0.0	0.0	2.6	15.4	25.6	23.1	25.6
80°	43.6	38.5	10.3	0.0	0.0	0.0	2.6	15.4	25.6	25.6	28.2
82.5°	28.2	20.5	0.0	0.0	0.0	0.0	5.1	20.5	28.2	30.8	30.8
85°	12.8	0.0	0.0	0.0	0.0	0.0	10.3	25.6	33.3	33.3	33.3
87.5°	0.0	0.0	0.0	0.0	0.0	5.1	18.0	30.8	38.5	38.5	38.5
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°	11150.9	11150.9	11150.9	11150.9	11150.9	11150.9	11150.9	11150.9	11150.9	11150.9	11150.9
2.5°	9171.0	9332.6	9560.8	9912.2	10196.9	10645.7	10989.3	11458.6	11933.1	12076.7	12299.8
5°	6750.0	6957.8	7475.8	7947.7	8245.2	9194.1	9794.2	10740.6	11589.4	11997.2	12440.9
7.5°	4688.1	4934.3	5329.2	5988.3	6614.1	7386.1	8355.5	9437.7	10681.6	11263.7	11889.5
10°	3290.4	3598.1	4154.7	4695.8	5483.1	6216.6	7173.2	8368.3	9740.4	10427.7	11212.4
12.5°	2077.3	2351.7	3087.8	3695.6	4677.8	5529.3	6411.5	7493.8	9083.8	9789.1	10612.3
15°	1187.4	1418.2	1761.9	2541.5	3631.5	4757.3	5857.6	7114.2	8747.9	9617.3	10507.2
17.5°	884.8	946.3	1100.2	1541.3	2533.8	3849.5	5347.2	6998.8	8976.1	9996.8	11012.4
20°	743.7	784.8	856.6	1031.0	1615.7	2964.7	4849.7	7019.3	9714.7	10997.0	11961.3
22.5°	666.8	692.4	751.4	864.3	1102.8	2159.4	4267.5	7139.9	10609.8	12225.5	13338.5
25°	584.7	618.1	669.4	766.8	918.1	1497.7	3693.0	7409.1	11863.9	13784.7	14831.1
27.5°	520.6	551.4	602.7	692.4	805.3	1143.8	3023.7	7640.0	13187.2	15354.3	16210.9
30°	456.5	487.3	538.6	610.4	713.0	925.8	2303.0	7775.9	14472.1	16531.4	17190.5
32.5°	402.6	428.3	477.0	541.1	625.8	784.8	1815.7	7634.8	15454.3	17600.9	18042.0
35°	348.8	379.6	420.6	479.6	554.0	669.4	1510.6	7147.5	16298.0	18701.1	18860.1
37.5°	292.4	328.3	371.9	425.7	484.7	615.5	1213.1	6609.0	17200.8	20073.1	19811.6
40°	246.2	279.5	320.6	379.6	433.4	564.2	933.5	6034.5	18175.3	21360.6	20850.2
42.5°	200.0	235.9	284.7	338.5	428.3	492.4	723.2	5439.5	19049.9	22481.3	21788.9
45°	159.0	189.8	241.1	310.3	425.7	423.2	559.1	4852.2	19709.0	23281.5	22489.0
47.5°	125.7	151.3	202.6	302.6	392.4	359.0	448.8	4488.1	20401.4	24002.1	23025.0
50°	100.0	125.7	174.4	315.4	343.7	307.8	377.0	4547.0	21070.8	24368.9	23245.6
52.5°	84.6	110.3	151.3	248.8	264.2	269.3	330.8	4818.9	21935.0	24761.2	23684.1
55°	74.4	97.5	128.2	174.4	205.2	241.1	302.6	5016.4	23091.7	25602.4	24651.0
57.5°	59.0	84.6	115.4	148.7	169.3	210.3	279.5	5031.7	24138.0	26682.1	25935.8
59°	53.9	76.9	107.7	141.1	151.3	189.8	264.2	4901.0	24176.5	26843.7	26525.7
60°	48.7	74.4	102.6	130.8	143.6	179.5	251.3	4749.6	23827.7	26587.2	26769.3
62.5°	41.0	64.1	89.8	105.1	123.1	148.7	218.0	4200.8	22137.6	25425.5	26317.9
65°	35.9	56.4	76.9	87.2	102.6	128.2	192.3	3362.2	20270.6	23850.8	25025.4
67.5°	33.3	51.3	66.7	74.4	89.8	118.0	171.8	2374.8	17852.2	21853.0	23084.0
70°	30.8	48.7	59.0	69.2	79.5	100.0	146.2	1384.9	13751.4	18349.7	19650.0
72.5°	30.8	46.2	51.3	59.0	69.2	89.8	135.9	748.9	9401.8	13997.6	15677.4
75°	30.8	43.6	46.2	51.3	61.6	82.1	120.5	392.4	6078.1	9725.0	12002.3
77.5°	30.8	41.0	46.2	48.7	59.0	71.8	105.1	246.2	4049.5	6811.6	8111.8
80°	33.3	41.0	43.6	48.7	56.4	66.7	87.2	164.1	2380.0	4098.2	4936.9
82.5°	35.9	41.0	46.2	51.3	59.0	64.1	76.9	102.6	1097.6	2710.8	3067.3
85°	38.5	43.6	48.7	53.9	61.6	64.1	71.8	74.4	179.5	1223.3	1654.2
87.5°	41.0	46.2	51.3	56.4	66.7	66.7	66.7	66.7	61.6	130.8	333.4
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: P457889

CATALOG NUMBER: GALN-SA9B-730-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11150.9	11150.9	11150.9	11150.9	11150.9	11150.9	11150.9	11150.9	11150.9	11150.9
2.5°	12581.9	12871.7	13074.3	13125.6	12979.5	12912.8	12728.1	12440.9	12266.5	12258.8
5°	13259.0	13938.6	14410.5	14490.0	14207.9	13730.9	13164.1	12433.2	12004.9	11876.7
7.5°	13143.6	14333.6	15092.7	15203.0	14728.5	13818.1	12720.4	11543.3	11076.5	10879.0
10°	12669.1	14120.7	15205.5	15379.9	14746.5	13464.2	12069.0	10755.9	10176.3	10025.0
12.5°	12263.9	13730.9	14695.2	14936.2	14456.7	13176.9	11679.2	10250.7	9630.1	9489.0
15°	12087.0	13269.3	13859.1	13982.2	13902.7	12997.4	11638.2	10173.8	9463.4	9309.5
17.5°	12263.9	12876.9	12951.2	13076.9	13253.9	12979.5	12033.1	10591.8	9825.0	9635.2
20°	12728.1	12535.8	12228.0	12281.9	12687.1	13053.8	12735.8	11517.6	10584.1	10381.5
22.5°	13518.0	12451.1	11753.6	11707.4	12220.3	13302.6	13766.8	12771.7	11689.5	11489.4
25°	14487.4	12664.0	11579.2	11479.2	12038.2	13666.8	14887.5	14307.9	13125.6	12820.4
27.5°	15544.1	13105.1	11579.2	11481.7	12022.9	13989.9	15846.7	15667.2	14613.1	14279.7
30°	16123.7	13469.3	11745.9	11635.6	12212.6	14177.1	16359.6	16875.1	15731.3	15318.4
32.5°	16641.7	13974.5	12071.6	11863.9	12610.1	14454.1	16818.7	17900.9	16621.2	16344.2
35°	17118.7	14515.6	12520.4	12279.3	13133.3	14833.7	17326.5	18978.1	17859.9	17441.9
37.5°	17644.5	15144.0	13220.5	13015.4	14007.9	15572.3	17929.1	20393.7	19078.1	18552.3
40°	18216.4	15872.3	14372.0	14284.8	15397.9	16408.3	18690.8	21904.3	20468.1	19870.5
42.5°	18798.5	16710.9	15782.6	15926.2	16972.5	17580.3	19473.0	23066.0	21606.8	20947.7
45°	19326.8	17783.0	17616.3	18326.6	18808.8	18724.2	20052.6	23884.1	22599.3	21968.4
47.5°	19993.6	19344.8	19834.6	20929.7	20942.5	19968.0	20491.2	24553.5	23453.3	22822.4
50°	20739.9	21188.7	22699.3	23814.9	23514.8	21191.3	21004.1	25346.0	24335.5	23830.3
52.5°	21604.2	23253.2	25346.0	26584.7	25884.5	22524.9	21858.1	26202.5	25735.8	25251.1
55°	22609.5	24661.2	27984.9	28972.3	28267.0	24181.6	23155.8	27364.3	27318.1	26987.3
57.5°	23745.7	26148.7	29513.4	30849.6	30221.3	26125.6	24969.0	28459.4	28285.0	28100.3
59°	24643.3	26912.9	30187.9	31572.8	31193.3	27487.4	26187.2	29141.6	28508.1	28231.1
60°	25187.0	27431.0	30436.7	31670.3	31583.1	28297.8	26959.1	29475.0	28505.6	28120.9
62.5°	26800.1	28336.3	30341.8	31236.9	31577.9	29852.0	29223.6	29841.7	27977.2	27413.0
65°	27374.6	28036.2	28769.7	28659.4	28951.8	29772.5	30670.1	29439.1	26848.8	26046.1
67.5°	26256.4	24745.8	25004.9	24268.8	24125.2	26469.3	30082.8	27469.5	24640.7	23658.5
70°	22132.5	18957.5	18826.7	19165.3	18236.9	21429.8	27013.0	23676.4	20996.4	19883.4
72.5°	17421.3	13397.5	12294.7	13541.1	13512.9	16349.3	22440.3	16800.7	14184.8	14089.9
75°	13700.1	9327.5	8186.2	8388.8	8778.6	11835.6	17872.7	10668.7	8735.0	7960.5
77.5°	9196.7	6609.0	6165.3	5916.5	6337.1	7598.9	11307.3	5785.7	4898.4	4639.4
80°	5301.0	4800.9	5452.3	4949.7	5175.4	4788.1	5624.2	2654.4	2203.0	2385.1
82.5°	3449.4	2733.9	2913.4	2164.5	2959.6	2985.2	1805.5	784.8	664.2	705.3
85°	2156.8	1282.3	720.7	512.9	1020.7	1877.3	564.2	48.7	56.4	48.7
87.5°	559.1	212.9	89.8	133.4	164.1	146.2	130.8	7.7	2.6	5.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)