

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: P453278

Luminaire Tested: **GALN-SA4B-740-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453278  
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-SA4B-740-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K, 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: 16166 lumens  
Efficiency: N/A  
Efficacy: 98.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

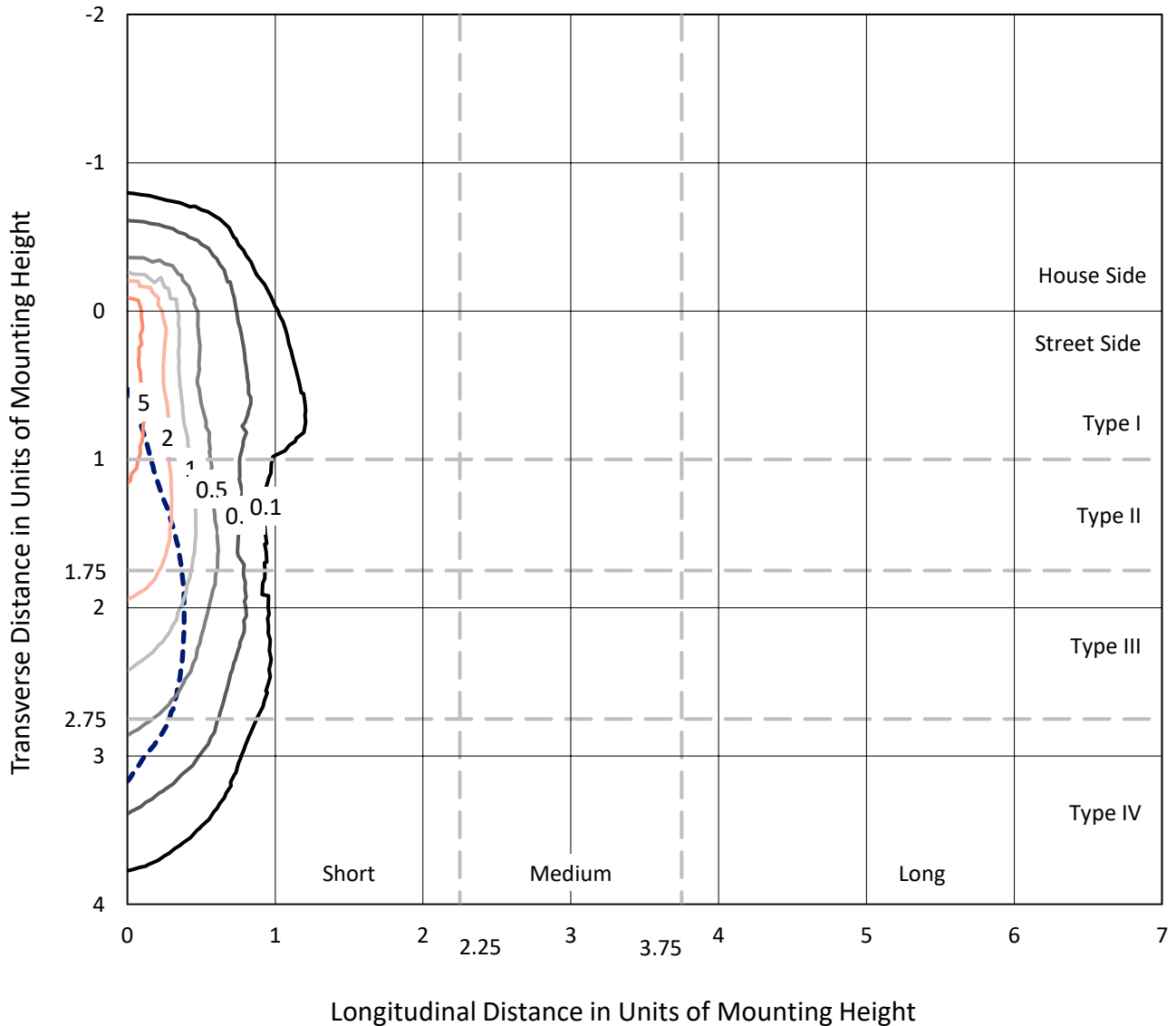
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

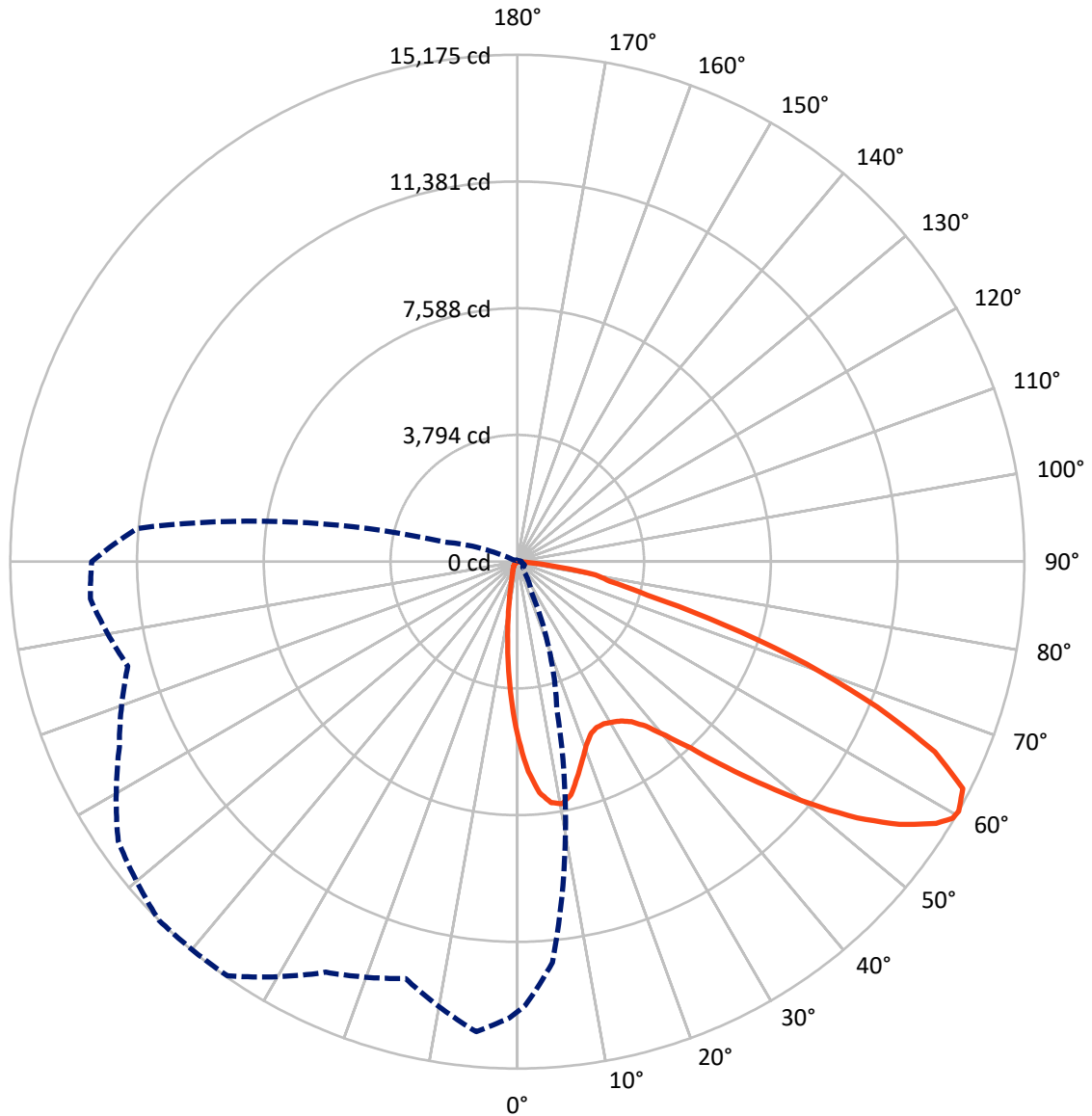
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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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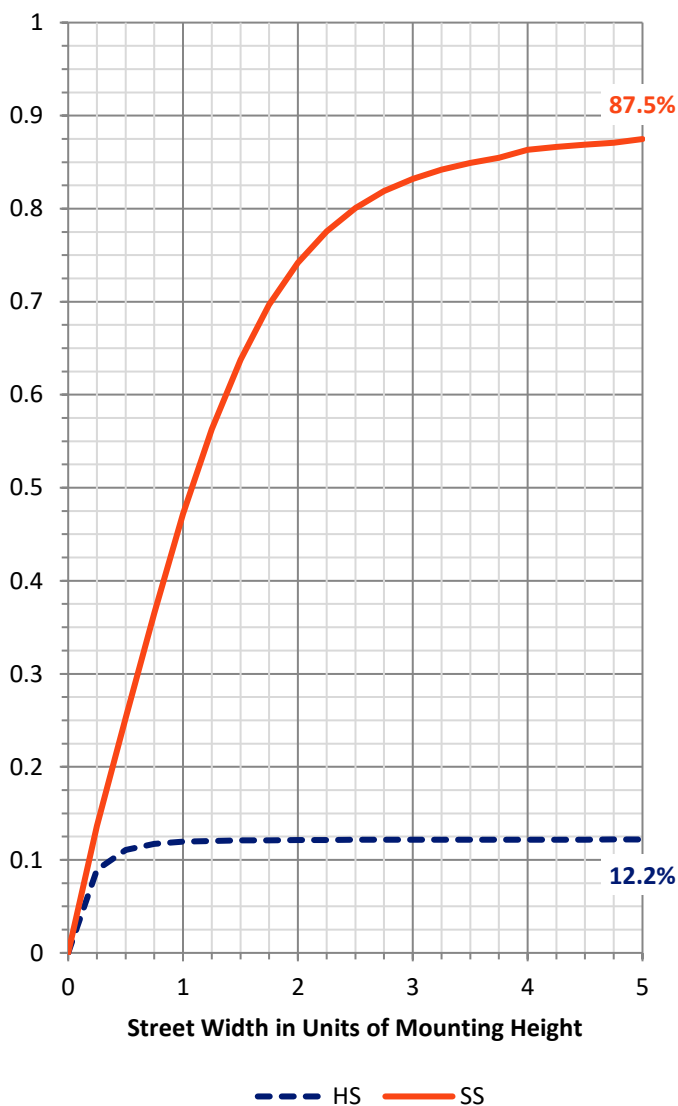
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1993.9	0.0	1993.9
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	14172.1	0.0	14172.1
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	16166.0	0.0	16166.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	397.4	2.5
10°-20°	789.2	4.9
20°-30°	1157.2	7.2
30°-40°	1721.0	10.6
40°-50°	2504.6	15.5
50°-60°	3611.9	22.3
60°-70°	3972.7	24.6
70°-80°	1779.4	11.0
80°-90°	232.5	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°	16166.0	100.0
0°-180°	16166.0	100.0

**Coefficient of Utilization**



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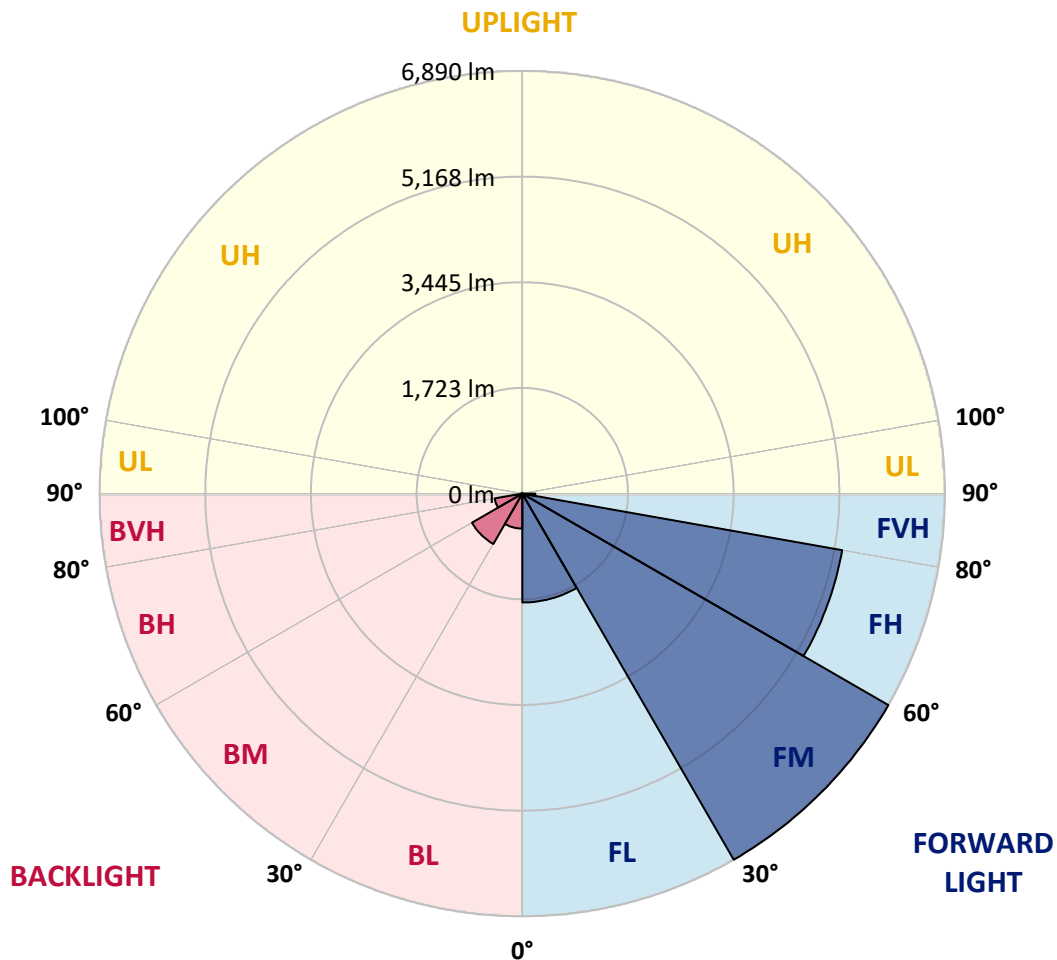
CATALOG NUMBER: GALN-SA4B-740-U-SLR-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1774.2	11.0			
FM (30°-60°)	6890.4	42.6			
FH (60°-80°)	5294.8	32.8			G3/7500
FVH (80°-90°)	212.6	1.3			G2/225
BL (0°-30°)	569.7	3.5	B2/1000		
BM (30°-60°)	947.1	5.9	B1/1000		
BH (60°-80°)	457.3	2.8	B1/500		G1/500
BVH (80°-90°)	19.9	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°	5343.1	5343.1	5343.1	5343.1	5343.1	5343.1	5343.1	5343.1	5343.1	5343.1	5343.1
2.5°	5874.0	5848.2	5789.2	5609.8	5453.7	5249.7	5043.3	4881.0	4781.5	4598.4	4514.8
5°	5690.9	5703.2	5532.3	5163.7	4753.2	4473.1	4167.1	3923.8	3655.9	3486.3	3308.1
7.5°	5212.8	5188.3	5002.7	4489.0	3990.1	3584.6	3197.5	2882.9	2685.1	2526.5	2393.8
10°	4803.6	4785.2	4548.0	3886.9	3351.1	3047.6	2785.8	2510.6	2298.0	2065.7	1880.2
12.5°	4546.8	4505.0	4232.2	3541.6	3105.3	2822.7	2537.6	2251.3	1957.6	1722.9	1498.0
15°	4460.8	4400.6	4097.0	3422.4	2948.0	2589.2	2231.6	1902.3	1564.3	1305.1	1135.5
17.5°	4616.8	4517.3	4194.1	3401.5	2760.0	2284.5	1844.5	1415.6	1064.2	866.3	761.9
20°	4974.4	4860.2	4439.9	3380.6	2551.1	1942.8	1402.1	1000.3	736.1	627.9	570.2
22.5°	5505.3	5348.0	4803.6	3413.8	2358.2	1609.8	1012.6	706.6	584.9	517.4	476.8
25°	6143.1	6011.6	5264.4	3531.8	2205.8	1348.1	782.8	577.6	492.8	451.0	420.3
27.5°	6842.3	6632.2	5860.4	3673.1	2066.9	1145.3	686.9	516.1	438.7	400.6	384.6
30°	7340.0	7176.6	6359.4	3771.4	1893.7	992.9	627.9	508.7	439.9	394.5	365.0
32.5°	7831.5	7622.6	6777.2	3816.8	1767.1	887.2	543.2	443.6	385.9	362.5	333.0
35°	8357.5	8138.8	7193.8	3792.3	1672.5	817.2	492.8	395.7	330.6	291.2	261.7
37.5°	8889.6	8658.6	7607.9	3703.8	1613.5	788.9	453.5	376.0	312.1	271.6	239.6
40°	9521.2	9212.8	7996.2	3631.3	1552.1	774.2	427.6	363.7	298.6	255.6	223.7
42.5°	10037.3	9743.7	8363.6	3593.2	1510.3	739.8	427.6	353.9	290.0	242.1	208.9
45°	10526.4	10221.7	8760.6	3623.9	1493.1	696.8	432.6	352.7	283.9	232.3	199.1
47.5°	10935.6	10671.4	9168.5	3739.4	1470.9	650.1	406.8	369.9	280.2	223.7	189.2
50°	11418.6	11163.0	9708.0	3972.9	1431.6	603.4	374.8	398.2	279.0	216.3	180.6
52.5°	12099.4	11822.9	10452.7	4238.3	1369.0	532.1	345.3	394.5	274.0	204.0	172.0
55°	12931.3	12707.7	11315.4	4556.6	1282.9	452.2	298.6	350.2	259.3	183.1	157.3
57.5°	13464.6	13274.2	11961.7	4694.3	1151.4	369.9	263.0	293.7	237.2	163.4	140.1
59°	13527.3	13355.3	12096.9	4648.8	1065.4	337.9	245.8	251.9	231.0	152.4	130.3
60°	13474.5	13296.3	12042.9	4560.3	985.5	315.8	231.0	223.7	232.3	146.2	122.9
62.5°	13135.3	12830.6	11518.1	4111.8	861.4	290.0	205.2	183.1	205.2	131.5	109.4
65°	12480.3	12023.2	10479.7	3480.1	812.3	275.3	174.5	153.6	156.1	115.5	94.6
67.5°	11336.3	10759.9	9097.3	2827.6	791.4	276.5	147.5	137.6	120.4	98.3	83.6
70°	9527.4	8952.3	7299.4	2326.2	781.6	276.5	125.3	118.0	100.8	82.3	72.5
72.5°	6751.4	6132.0	4924.1	1827.3	704.1	275.3	106.9	106.9	82.3	68.8	59.0
75°	3814.4	3819.3	3095.5	1292.8	584.9	227.3	86.0	84.8	60.2	52.8	44.2
77.5°	2223.0	2183.7	2086.6	555.4	271.6	103.2	60.2	51.6	41.8	38.1	32.0
80°	1142.8	940.1	915.5	201.5	97.1	65.1	41.8	29.5	27.0	24.6	22.1
82.5°	337.9	339.2	302.3	81.1	54.1	43.0	20.9	16.0	14.7	13.5	13.5
85°	23.3	14.7	17.2	24.6	33.2	17.2	1.2	3.7	3.7	4.9	6.1
87.5°	2.5	1.2	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°	5343.1	5343.1	5343.1	5343.1	5343.1	5343.1	5343.1	5343.1	5343.1	5343.1	5343.1
2.5°	4422.7	4476.7	4376.0	4378.4	4294.9	4321.9	4223.6	4255.6	4197.8	4242.0	4372.3
5°	3327.8	3340.0	3258.9	3233.1	3245.4	3295.8	3315.5	3225.8	3263.9	3188.9	3184.0
7.5°	2344.7	2359.4	2312.7	2306.6	2395.1	2374.2	2412.3	2320.1	2232.8	2270.9	2200.9
10°	1821.2	1759.7	1663.9	1636.8	1619.6	1630.7	1630.7	1547.1	1534.8	1501.7	1552.1
12.5°	1437.8	1362.8	1271.9	1149.0	1118.3	1115.8	1070.3	996.6	973.3	945.0	986.8
15°	1044.5	1013.8	937.6	868.8	798.8	785.2	711.5	651.3	571.4	560.4	556.7
17.5°	734.9	689.4	688.2	648.8	608.3	581.3	512.4	443.6	412.9	409.2	409.2
20°	550.5	534.6	508.7	503.8	491.5	460.8	399.4	362.5	347.8	349.0	353.9
22.5°	463.3	452.2	428.9	417.8	412.9	385.9	340.4	315.8	308.4	308.4	309.7
25°	414.1	404.3	378.5	361.3	355.1	335.5	299.8	281.4	275.3	275.3	275.3
27.5°	377.3	365.0	337.9	323.2	312.1	290.0	267.9	249.5	243.3	243.3	244.5
30°	351.5	337.9	313.4	293.7	276.5	256.8	238.4	222.4	215.1	213.8	215.1
32.5°	317.0	304.8	280.2	267.9	248.2	224.9	210.1	195.4	188.0	189.2	188.0
35°	247.0	243.3	226.1	229.8	218.7	199.1	185.6	169.6	161.0	159.8	162.2
37.5°	224.9	210.1	190.5	191.7	188.0	180.6	158.5	141.3	135.2	135.2	136.4
40°	207.7	192.9	170.8	159.8	161.0	161.0	137.6	119.2	113.1	111.8	114.3
42.5°	192.9	178.2	153.6	135.2	130.3	136.4	116.7	98.3	92.2	89.7	92.2
45°	183.1	167.1	138.9	118.0	103.2	110.6	95.9	81.1	73.7	73.7	72.5
47.5°	173.3	158.5	127.8	102.0	86.0	82.3	78.6	65.1	57.8	56.5	57.8
50°	164.7	149.9	115.5	88.5	72.5	63.9	63.9	51.6	46.7	44.2	45.5
52.5°	156.1	140.1	104.5	78.6	62.7	51.6	45.5	41.8	38.1	36.9	38.1
55°	143.8	127.8	93.4	67.6	54.1	43.0	35.6	34.4	32.0	29.5	32.0
57.5°	129.0	114.3	82.3	57.8	43.0	33.2	29.5	28.3	25.8	24.6	24.6
59°	120.4	106.9	76.2	50.4	38.1	29.5	27.0	25.8	23.3	20.9	22.1
60°	115.5	104.5	72.5	46.7	34.4	27.0	24.6	23.3	20.9	19.7	20.9
62.5°	102.0	93.4	63.9	38.1	27.0	19.7	17.2	18.4	17.2	16.0	17.2
65°	89.7	82.3	54.1	29.5	20.9	13.5	12.3	16.0	14.7	13.5	14.7
67.5°	79.9	71.3	45.5	22.1	14.7	7.4	8.6	13.5	13.5	12.3	13.5
70°	68.8	61.4	36.9	16.0	7.4	3.7	6.1	9.8	12.3	11.1	12.3
72.5°	56.5	47.9	28.3	11.1	3.7	0.0	3.7	8.6	12.3	11.1	12.3
75°	44.2	35.6	20.9	6.1	0.0	0.0	1.2	7.4	12.3	11.1	12.3
77.5°	32.0	25.8	12.3	1.2	0.0	0.0	1.2	7.4	12.3	11.1	12.3
80°	20.9	18.4	4.9	0.0	0.0	0.0	1.2	7.4	12.3	12.3	13.5
82.5°	13.5	9.8	0.0	0.0	0.0	0.0	2.5	9.8	13.5	14.7	14.7
85°	6.1	0.0	0.0	0.0	0.0	0.0	4.9	12.3	16.0	16.0	16.0
87.5°	0.0	0.0	0.0	0.0	0.0	2.5	8.6	14.7	18.4	18.4	18.4
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°	5343.1	5343.1	5343.1	5343.1	5343.1	5343.1	5343.1	5343.1	5343.1	5343.1	5343.1
2.5°	4394.4	4471.8	4581.2	4749.6	4886.0	5101.0	5265.7	5490.6	5717.9	5786.7	5893.6
5°	3234.4	3333.9	3582.1	3808.2	3950.8	4405.5	4693.0	5146.5	5553.2	5748.6	5961.2
7.5°	2246.4	2364.3	2553.6	2869.4	3169.2	3539.1	4003.6	4522.2	5118.2	5397.2	5697.0
10°	1576.6	1724.1	1990.8	2250.0	2627.3	2978.8	3437.1	4009.8	4667.2	4996.6	5372.6
12.5°	995.4	1126.9	1479.6	1770.8	2241.4	2649.4	3072.2	3590.7	4352.6	4690.6	5085.0
15°	569.0	679.6	844.2	1217.8	1740.1	2279.5	2806.7	3408.9	4191.6	4608.2	5034.6
17.5°	424.0	453.5	527.2	738.5	1214.1	1844.5	2562.2	3353.6	4301.0	4790.1	5276.7
20°	356.4	376.0	410.4	494.0	774.2	1420.6	2323.8	3363.4	4654.9	5269.4	5731.4
22.5°	319.5	331.8	360.1	414.1	528.4	1034.7	2044.8	3421.2	5083.8	5858.0	6391.3
25°	280.2	296.2	320.7	367.4	439.9	717.7	1769.6	3550.2	5684.7	6605.1	7106.5
27.5°	249.5	264.2	288.8	331.8	385.9	548.1	1448.8	3660.8	6318.8	7357.2	7767.6
30°	218.7	233.5	258.1	292.5	341.6	443.6	1103.5	3725.9	6934.5	7921.2	8237.1
32.5°	192.9	205.2	228.6	259.3	299.8	376.0	870.0	3658.3	7405.1	8433.7	8645.0
35°	167.1	181.9	201.5	229.8	265.4	320.7	723.8	3424.8	7809.4	8960.9	9037.1
37.5°	140.1	157.3	178.2	204.0	232.3	294.9	581.3	3166.8	8242.0	9618.3	9493.0
40°	118.0	133.9	153.6	181.9	207.7	270.3	447.3	2891.5	8708.9	10235.2	9990.7
42.5°	95.9	113.1	136.4	162.2	205.2	235.9	346.5	2606.4	9128.0	10772.2	10440.4
45°	76.2	90.9	115.5	148.7	204.0	202.8	267.9	2325.0	9443.8	11155.6	10775.9
47.5°	60.2	72.5	97.1	145.0	188.0	172.0	215.1	2150.5	9775.6	11500.9	11032.7
50°	47.9	60.2	83.6	151.2	164.7	147.5	180.6	2178.8	10096.3	11676.7	11138.4
52.5°	40.6	52.8	72.5	119.2	126.6	129.0	158.5	2309.0	10510.5	11864.7	11348.5
55°	35.6	46.7	61.4	83.6	98.3	115.5	145.0	2403.7	11064.7	12267.7	11811.8
57.5°	28.3	40.6	55.3	71.3	81.1	100.8	133.9	2411.0	11566.1	12785.1	12427.5
59°	25.8	36.9	51.6	67.6	72.5	90.9	126.6	2348.4	11584.5	12862.5	12710.1
60°	23.3	35.6	49.2	62.7	68.8	86.0	120.4	2275.9	11417.4	12739.6	12826.9
62.5°	19.7	30.7	43.0	50.4	59.0	71.3	104.5	2012.9	10607.5	12182.9	12610.6
65°	17.2	27.0	36.9	41.8	49.2	61.4	92.2	1611.0	9712.9	11428.4	11991.2
67.5°	16.0	24.6	32.0	35.6	43.0	56.5	82.3	1137.9	8554.1	10471.1	11061.0
70°	14.7	23.3	28.3	33.2	38.1	47.9	70.0	663.6	6589.2	8792.5	9415.5
72.5°	14.7	22.1	24.6	28.3	33.2	43.0	65.1	358.8	4505.0	6707.1	7512.0
75°	14.7	20.9	22.1	24.6	29.5	39.3	57.8	188.0	2912.4	4659.8	5751.1
77.5°	14.7	19.7	22.1	23.3	28.3	34.4	50.4	118.0	1940.4	3263.9	3886.9
80°	16.0	19.7	20.9	23.3	27.0	32.0	41.8	78.6	1140.4	1963.7	2365.6
82.5°	17.2	19.7	22.1	24.6	28.3	30.7	36.9	49.2	526.0	1298.9	1469.7
85°	18.4	20.9	23.3	25.8	29.5	30.7	34.4	35.6	86.0	586.2	792.6
87.5°	19.7	22.1	24.6	27.0	32.0	32.0	32.0	32.0	29.5	62.7	159.8
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: P453278

CATALOG NUMBER: GALN-SA4B-740-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5343.1	5343.1	5343.1	5343.1	5343.1	5343.1	5343.1	5343.1	5343.1	5343.1
2.5°	6028.8	6167.7	6264.7	6289.3	6219.3	6187.3	6098.8	5961.2	5877.6	5874.0
5°	6353.2	6678.9	6905.0	6943.1	6807.9	6579.3	6307.8	5957.5	5752.3	5690.9
7.5°	6297.9	6868.1	7231.9	7284.7	7057.4	6621.1	6095.2	5531.1	5307.5	5212.8
10°	6070.6	6766.1	7285.9	7369.5	7066.0	6451.5	5783.0	5153.8	4876.1	4803.6
12.5°	5876.4	6579.3	7041.4	7156.9	6927.1	6313.9	5596.2	4911.8	4614.4	4546.8
15°	5791.6	6358.1	6640.8	6699.8	6661.7	6227.9	5576.6	4874.9	4534.5	4460.8
17.5°	5876.4	6170.1	6205.8	6266.0	6350.8	6219.3	5765.8	5075.2	4707.8	4616.8
20°	6098.8	6006.7	5859.2	5885.0	6079.2	6254.9	6102.5	5518.8	5071.5	4974.4
22.5°	6477.3	5966.1	5631.9	5609.8	5855.5	6374.1	6596.5	6119.7	5601.2	5505.3
25°	6941.8	6068.1	5548.3	5500.4	5768.3	6548.6	7133.5	6855.8	6289.3	6143.1
27.5°	7448.1	6279.5	5548.3	5501.6	5760.9	6703.4	7593.1	7507.1	7002.1	6842.3
30°	7725.9	6454.0	5628.2	5575.3	5851.8	6793.2	7838.9	8085.9	7537.8	7340.0
32.5°	7974.1	6696.1	5784.3	5684.7	6042.3	6925.9	8058.9	8577.5	7964.3	7831.5
35°	8202.7	6955.4	5999.3	5883.8	6293.0	7107.7	8302.2	9093.6	8557.8	8357.5
37.5°	8454.6	7256.4	6334.8	6236.5	6712.0	7461.7	8591.0	9771.9	9141.5	8889.6
40°	8728.6	7605.4	6886.5	6844.8	7378.1	7862.3	8955.9	10495.7	9807.6	9521.2
42.5°	9007.6	8007.3	7562.4	7631.2	8132.6	8423.9	9330.8	11052.4	10353.2	10037.3
45°	9260.7	8520.9	8441.1	8781.5	9012.5	8971.9	9608.5	11444.4	10828.7	10526.4
47.5°	9580.2	9269.3	9504.0	10028.7	10034.9	9567.9	9818.6	11765.1	11237.9	10935.6
50°	9937.8	10152.9	10876.7	11411.2	11267.4	10154.1	10064.4	12144.8	11660.7	11418.6
52.5°	10351.9	11142.1	12144.8	12738.4	12402.9	10793.1	10473.6	12555.3	12331.6	12099.4
55°	10833.7	11816.7	13409.3	13882.5	13544.5	11586.9	11095.4	13112.0	13089.8	12931.3
57.5°	11378.0	12529.5	14141.7	14782.0	14480.9	12518.4	11964.2	13636.7	13553.1	13464.6
59°	11808.1	12895.7	14464.9	15128.5	14946.7	13170.9	12547.9	13963.6	13660.0	13527.3
60°	12068.7	13143.9	14584.1	15175.2	15133.4	13559.3	12917.8	14123.3	13658.8	13474.5
62.5°	12841.6	13577.7	14538.7	14967.5	15131.0	14304.0	14002.9	14299.0	13405.7	13135.3
65°	13116.9	13433.9	13785.4	13732.5	13872.6	14265.9	14696.0	14106.1	12865.0	12480.3
67.5°	12581.1	11857.3	11981.4	11628.7	11559.9	12683.1	14414.6	13162.3	11806.9	11336.3
70°	10605.1	9083.8	9021.1	9183.3	8738.4	10268.4	12943.6	11344.9	10060.7	9527.4
72.5°	8347.7	6419.6	5891.2	6488.4	6474.9	7834.0	10752.5	8050.3	6796.8	6751.4
75°	6564.6	4469.4	3922.5	4019.6	4206.4	5671.2	8563.9	5112.1	4185.5	3814.4
77.5°	4406.7	3166.8	2954.2	2835.0	3036.5	3641.1	5418.1	2772.3	2347.1	2223.0
80°	2540.1	2300.4	2612.6	2371.7	2479.8	2294.3	2694.9	1271.9	1055.6	1142.8
82.5°	1652.8	1310.0	1396.0	1037.2	1418.1	1430.4	865.1	376.0	318.3	337.9
85°	1033.5	614.4	345.3	245.8	489.1	899.5	270.3	23.3	27.0	23.3
87.5°	267.9	102.0	43.0	63.9	78.6	70.0	62.7	3.7	1.2	2.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)