

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: P456062

Luminaire Tested: **GALN-SA7B-740-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456062  
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-SA7B-740-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 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: 28463 lumens  
Efficiency: N/A  
Efficacy: 99.5 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

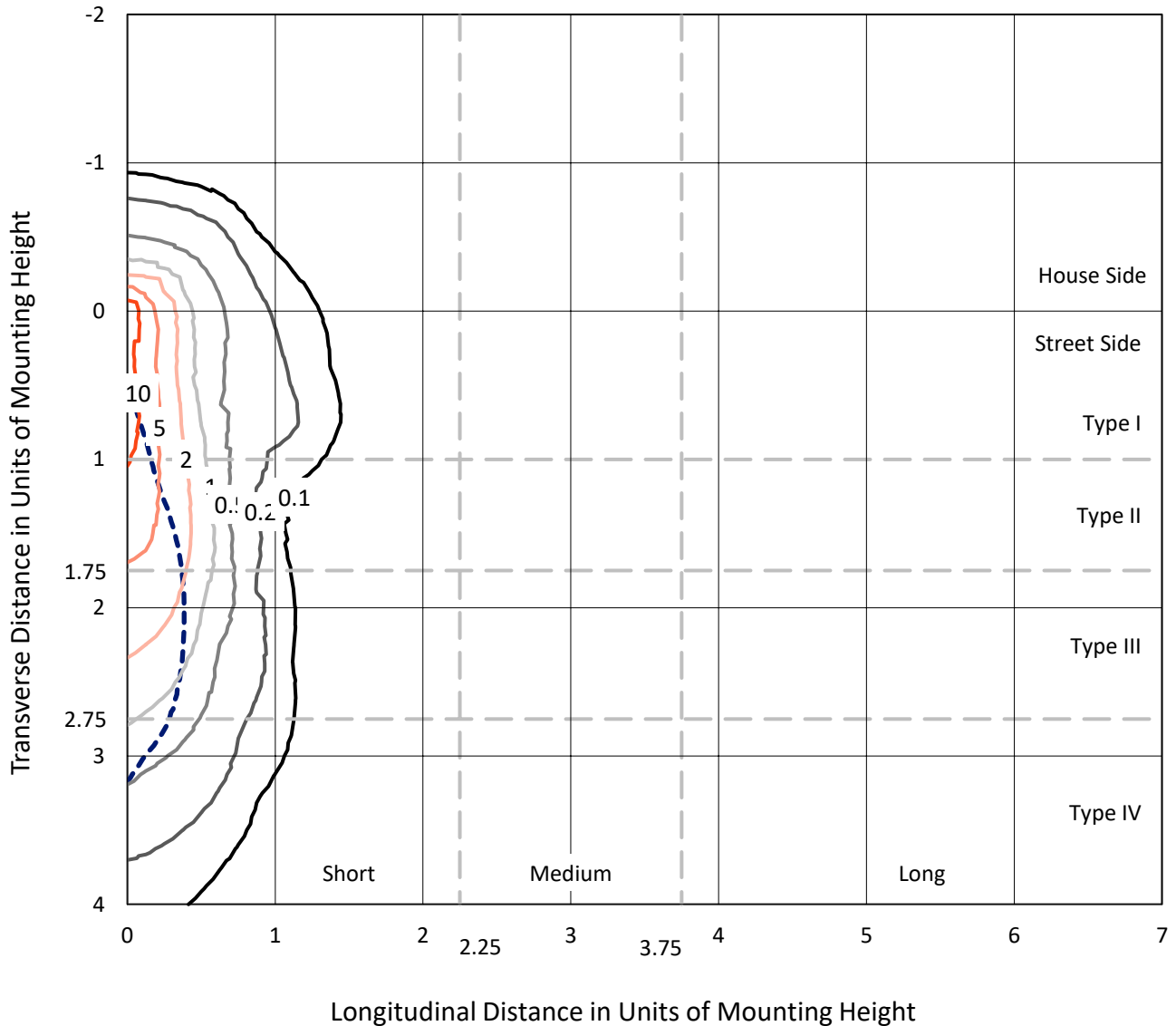
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

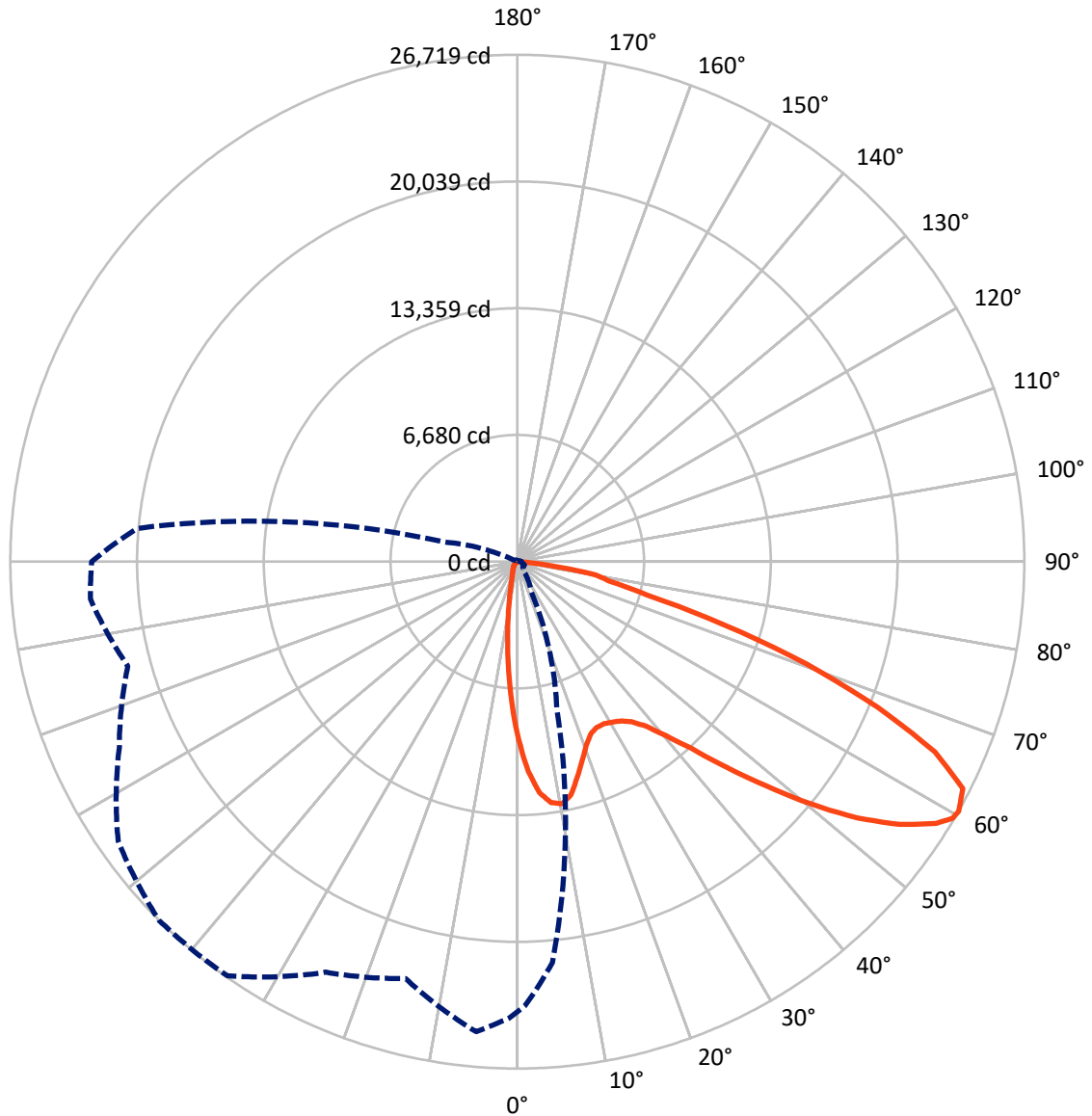
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 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	3510.6	0.0	3510.6
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	24952.4	0.0	24952.4
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	28463.0	0.0	28463.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	699.7	2.5
10°-20°	1389.6	4.9
20°-30°	2037.5	7.2
30°-40°	3030.2	10.6
40°-50°	4409.8	15.5
50°-60°	6359.3	22.3
60°-70°	6994.6	24.6
70°-80°	3133.0	11.0
80°-90°	409.4	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°	28463.0	100.0
0°-180°	28463.0	100.0

**Coefficient of Utilization**



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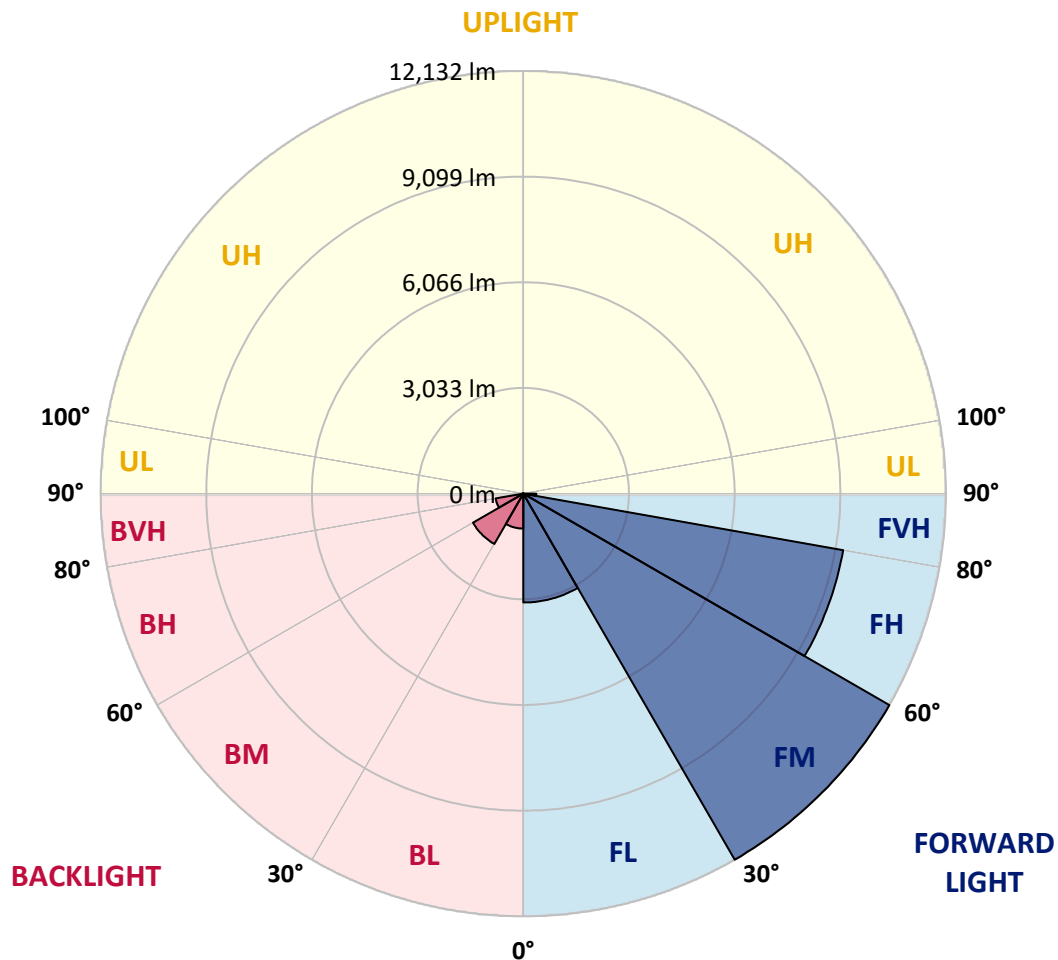
CATALOG NUMBER: GALN-SA7B-740-U-SLR-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3123.7	11.0			
FM	(30°-60°)	12131.8	42.6			
FH	(60°-80°)	9322.5	32.8			G4/12000
FVH	(80°-90°)	374.4	1.3			G3/500
BL	(0°-30°)	1003.1	3.5	B3/2500		
BM	(30°-60°)	1667.5	5.9	B2/2500		
BH	(60°-80°)	805.1	2.8	B2/1000		G2/1000
BVH	(80°-90°)	35.0	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°	9407.4	9407.4	9407.4	9407.4	9407.4	9407.4	9407.4	9407.4	9407.4	9407.4	9407.4
2.5°	10342.1	10296.7	10192.8	9876.9	9602.2	9243.0	8879.5	8593.9	8418.7	8096.3	7949.1
5°	10019.7	10041.4	9740.6	9091.5	8368.9	7875.6	7336.8	6908.4	6436.8	6138.2	5824.5
7.5°	9178.1	9134.8	8808.1	7903.7	7025.3	6311.3	5629.7	5075.9	4727.5	4448.4	4214.7
10°	8457.6	8425.1	8007.6	6843.5	5900.2	5365.8	4904.9	4420.3	4046.0	3637.0	3310.3
12.5°	8005.4	7931.8	7451.5	6235.6	5467.5	4969.8	4467.9	3963.8	3446.6	3033.4	2637.5
15°	7853.9	7747.9	7213.5	6025.7	5190.5	4558.8	3929.1	3349.3	2754.3	2297.8	1999.2
17.5°	8128.7	7953.5	7384.4	5988.9	4859.5	4022.2	3247.6	2492.5	1873.7	1525.4	1341.4
20°	8758.3	8557.1	7817.2	5952.1	4491.7	3420.7	2468.7	1761.2	1296.0	1105.6	1003.9
22.5°	9693.0	9416.1	8457.6	6010.5	4152.0	2834.3	1782.8	1244.1	1029.9	910.9	839.5
25°	10815.9	10584.4	9269.0	6218.2	3883.7	2373.5	1378.2	1016.9	867.6	794.0	740.0
27.5°	12047.0	11677.1	10318.3	6467.1	3639.2	2016.5	1209.5	908.7	772.4	705.3	677.2
30°	12923.3	12635.6	11196.7	6640.2	3334.1	1748.2	1105.6	895.7	774.6	694.5	642.6
32.5°	13788.8	13420.9	11932.4	6720.2	3111.3	1562.1	956.3	781.1	679.4	638.3	586.3
35°	14714.8	14329.7	12665.8	6676.9	2944.7	1438.8	867.6	696.7	582.0	512.8	460.9
37.5°	15651.6	15244.9	13395.0	6521.2	2840.8	1389.0	798.4	662.1	549.6	478.2	421.9
40°	16763.7	16220.7	14078.7	6393.5	2732.7	1363.1	752.9	640.4	525.8	450.0	393.8
42.5°	17672.5	17155.4	14725.6	6326.4	2659.1	1302.5	752.9	623.1	510.6	426.2	367.8
45°	18533.6	17997.0	15424.5	6380.5	2628.8	1226.8	761.6	621.0	499.8	408.9	350.5
47.5°	19254.1	18788.9	16142.8	6583.9	2589.9	1144.6	716.2	651.3	493.3	393.8	333.2
50°	20104.4	19654.3	17092.6	6995.0	2520.6	1062.3	659.9	701.0	491.1	380.8	318.1
52.5°	21303.0	20816.2	18403.8	7462.3	2410.3	936.8	608.0	694.5	482.5	359.2	302.9
55°	22767.8	22374.0	19922.6	8022.7	2258.8	796.2	525.8	616.6	456.5	322.4	276.9
57.5°	23706.8	23371.4	21060.7	8265.0	2027.3	651.3	463.0	517.1	417.6	287.8	246.7
59°	23817.2	23514.2	21298.7	8185.0	1875.9	595.0	432.7	443.5	406.8	268.3	229.3
60°	23724.1	23410.4	21203.5	8029.2	1735.2	556.1	406.8	393.8	408.9	257.5	216.4
62.5°	23127.0	22590.4	20279.6	7239.5	1516.7	510.6	361.3	322.4	361.3	231.5	192.6
65°	21973.7	21168.9	18451.4	6127.4	1430.2	484.7	307.2	270.5	274.8	203.4	166.6
67.5°	19959.4	18944.7	16017.3	4978.5	1393.4	486.8	259.6	242.3	212.0	173.1	147.1
70°	16774.6	15762.0	12851.9	4095.7	1376.1	486.8	220.7	207.7	177.4	145.0	127.7
72.5°	11886.9	10796.5	8669.6	3217.3	1239.8	484.7	188.2	188.2	145.0	121.2	103.9
75°	6715.9	6724.5	5450.2	2276.1	1029.9	400.3	151.5	149.3	106.0	93.0	77.9
77.5°	3914.0	3844.8	3673.8	978.0	478.2	181.7	106.0	90.9	73.6	67.1	56.3
80°	2012.2	1655.2	1611.9	354.8	170.9	114.7	73.6	51.9	47.6	43.3	38.9
82.5°	595.0	597.2	532.3	142.8	95.2	75.7	36.8	28.1	26.0	23.8	23.8
85°	41.1	26.0	30.3	43.3	58.4	30.3	2.2	6.5	6.5	8.7	10.8
87.5°	4.3	2.2	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°	9407.4	9407.4	9407.4	9407.4	9407.4	9407.4	9407.4	9407.4	9407.4	9407.4	9407.4
2.5°	7786.9	7882.1	7704.7	7709.0	7561.9	7609.5	7436.4	7492.6	7390.9	7468.8	7698.2
5°	5859.1	5880.7	5737.9	5692.5	5714.1	5802.8	5837.5	5679.5	5746.6	5614.6	5605.9
7.5°	4128.2	4154.2	4071.9	4061.1	4216.9	4180.1	4247.2	4084.9	3931.3	3998.4	3875.0
10°	3206.5	3098.3	2929.5	2881.9	2851.7	2871.1	2871.1	2724.0	2702.4	2643.9	2732.7
12.5°	2531.4	2399.5	2239.3	2023.0	1968.9	1964.6	1884.5	1754.7	1713.6	1663.8	1737.4
15°	1839.1	1785.0	1650.8	1529.7	1406.4	1382.6	1252.7	1146.7	1006.1	986.6	980.1
17.5°	1293.8	1213.8	1211.6	1142.4	1071.0	1023.4	902.2	781.1	727.0	720.5	720.5
20°	969.3	941.2	895.7	887.1	865.4	811.4	703.2	638.3	612.3	614.5	623.1
22.5°	815.7	796.2	755.1	735.6	727.0	679.4	599.3	556.1	543.1	543.1	545.2
25°	729.1	711.8	666.4	636.1	625.3	590.7	527.9	495.5	484.7	484.7	484.7
27.5°	664.2	642.6	595.0	569.0	549.6	510.6	471.7	439.2	428.4	428.4	430.6
30°	618.8	595.0	551.7	517.1	486.8	452.2	419.7	391.6	378.6	376.5	378.6
32.5°	558.2	536.6	493.3	471.7	437.1	395.9	370.0	344.0	331.0	333.2	331.0
35°	434.9	428.4	398.1	404.6	385.1	350.5	326.7	298.6	283.4	281.3	285.6
37.5°	395.9	370.0	335.4	337.5	331.0	318.1	279.1	248.8	238.0	238.0	240.2
40°	365.7	339.7	300.7	281.3	283.4	283.4	242.3	209.9	199.1	196.9	201.2
42.5°	339.7	313.7	270.5	238.0	229.3	240.2	205.5	173.1	162.3	157.9	162.3
45°	322.4	294.3	244.5	207.7	181.7	194.7	168.8	142.8	129.8	129.8	127.7
47.5°	305.1	279.1	225.0	179.6	151.5	145.0	138.5	114.7	101.7	99.5	101.7
50°	289.9	264.0	203.4	155.8	127.7	112.5	112.5	90.9	82.2	77.9	80.1
52.5°	274.8	246.7	183.9	138.5	110.3	90.9	80.1	73.6	67.1	64.9	67.1
55°	253.1	225.0	164.4	119.0	95.2	75.7	62.7	60.6	56.3	51.9	56.3
57.5°	227.2	201.2	145.0	101.7	75.7	58.4	51.9	49.8	45.4	43.3	43.3
59°	212.0	188.2	134.1	88.7	67.1	51.9	47.6	45.4	41.1	36.8	38.9
60°	203.4	183.9	127.7	82.2	60.6	47.6	43.3	41.1	36.8	34.6	36.8
62.5°	179.6	164.4	112.5	67.1	47.6	34.6	30.3	32.5	30.3	28.1	30.3
65°	157.9	145.0	95.2	51.9	36.8	23.8	21.6	28.1	26.0	23.8	26.0
67.5°	140.6	125.5	80.1	38.9	26.0	13.0	15.1	23.8	23.8	21.6	23.8
70°	121.2	108.2	64.9	28.1	13.0	6.5	10.8	17.3	21.6	19.5	21.6
72.5°	99.5	84.4	49.8	19.5	6.5	0.0	6.5	15.1	21.6	19.5	21.6
75°	77.9	62.7	36.8	10.8	0.0	0.0	2.2	13.0	21.6	19.5	21.6
77.5°	56.3	45.4	21.6	2.2	0.0	0.0	2.2	13.0	21.6	19.5	21.6
80°	36.8	32.5	8.7	0.0	0.0	0.0	2.2	13.0	21.6	21.6	23.8
82.5°	23.8	17.3	0.0	0.0	0.0	0.0	4.3	17.3	23.8	26.0	26.0
85°	10.8	0.0	0.0	0.0	0.0	0.0	8.7	21.6	28.1	28.1	28.1
87.5°	0.0	0.0	0.0	0.0	0.0	4.3	15.1	26.0	32.5	32.5	32.5
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°	9407.4	9407.4	9407.4	9407.4	9407.4	9407.4	9407.4	9407.4	9407.4	9407.4	9407.4
2.5°	7737.1	7873.4	8066.0	8362.4	8602.6	8981.2	9271.1	9667.1	10067.3	10188.5	10376.7
5°	5694.7	5869.9	6307.0	6705.1	6956.0	7756.6	8262.9	9061.2	9777.4	10121.4	10495.7
7.5°	3955.1	4162.8	4496.0	5052.1	5580.0	6231.2	7049.1	7962.1	9011.5	9502.6	10030.6
10°	2775.9	3035.6	3505.1	3961.6	4625.8	5244.6	6051.7	7059.9	8217.4	8797.3	9459.4
12.5°	1752.5	1984.0	2605.0	3117.8	3946.4	4664.8	5409.1	6322.1	7663.5	8258.5	8953.1
15°	1001.8	1196.5	1486.4	2144.1	3063.7	4013.5	4941.7	6001.9	7380.1	8113.6	8864.4
17.5°	746.4	798.4	928.2	1300.3	2137.7	3247.6	4511.2	5904.5	7572.7	8433.8	9290.6
20°	627.5	662.1	722.6	869.8	1363.1	2501.1	4091.4	5921.8	8195.8	9277.6	10091.1
22.5°	562.5	584.2	633.9	729.1	930.4	1821.8	3600.3	6023.5	8950.9	10314.0	11253.0
25°	493.3	521.4	564.7	646.9	774.6	1263.6	3115.6	6250.7	10008.9	11629.5	12512.2
27.5°	439.2	465.2	508.5	584.2	679.4	965.0	2550.9	6445.4	11125.3	12953.6	13676.3
30°	385.1	411.1	454.4	514.9	601.5	781.1	1942.9	6560.1	12209.3	13946.7	14502.8
32.5°	339.7	361.3	402.4	456.5	527.9	662.1	1531.8	6441.1	13038.0	14848.9	15221.1
35°	294.3	320.2	354.8	404.6	467.3	564.7	1274.4	6030.0	13749.8	15777.1	15911.3
37.5°	246.7	276.9	313.7	359.2	408.9	519.3	1023.4	5575.7	14511.4	16934.7	16714.0
40°	207.7	235.8	270.5	320.2	365.7	476.0	787.6	5091.0	15333.6	18020.8	17590.2
42.5°	168.8	199.1	240.2	285.6	361.3	415.4	610.1	4589.0	16071.4	18966.3	18382.1
45°	134.1	160.1	203.4	261.8	359.2	357.0	471.7	4093.6	16627.4	19641.4	18972.8
47.5°	106.0	127.7	170.9	255.3	331.0	302.9	378.6	3786.3	17211.6	20249.3	19425.0
50°	84.4	106.0	147.1	266.1	289.9	259.6	318.1	3836.1	17776.3	20558.7	19611.1
52.5°	71.4	93.0	127.7	209.9	222.9	227.2	279.1	4065.4	18505.5	20889.8	19981.0
55°	62.7	82.2	108.2	147.1	173.1	203.4	255.3	4232.0	19481.3	21599.4	20796.7
57.5°	49.8	71.4	97.4	125.5	142.8	177.4	235.8	4245.0	20364.0	22510.3	21880.7
59°	45.4	64.9	90.9	119.0	127.7	160.1	222.9	4134.7	20396.5	22646.6	22378.3
60°	41.1	62.7	86.5	110.3	121.2	151.5	212.0	4007.0	20102.2	22430.3	22583.9
62.5°	34.6	54.1	75.7	88.7	103.9	125.5	183.9	3544.0	18676.4	21450.1	22203.1
65°	30.3	47.6	64.9	73.6	86.5	108.2	162.3	2836.5	17101.3	20121.7	21112.6
67.5°	28.1	43.3	56.3	62.7	75.7	99.5	145.0	2003.5	15061.0	18436.2	19474.8
70°	26.0	41.1	49.8	58.4	67.1	84.4	123.3	1168.4	11601.3	15480.7	16577.7
72.5°	26.0	38.9	43.3	49.8	58.4	75.7	114.7	631.8	7931.8	11809.0	13226.2
75°	26.0	36.8	38.9	43.3	51.9	69.2	101.7	331.0	5127.8	8204.5	10125.8
77.5°	26.0	34.6	38.9	41.1	49.8	60.6	88.7	207.7	3416.4	5746.6	6843.5
80°	28.1	34.6	36.8	41.1	47.6	56.3	73.6	138.5	2007.8	3457.5	4165.0
82.5°	30.3	34.6	38.9	43.3	49.8	54.1	64.9	86.5	926.0	2286.9	2587.7
85°	32.5	36.8	41.1	45.4	51.9	54.1	60.6	62.7	151.5	1032.0	1395.5
87.5°	34.6	38.9	43.3	47.6	56.3	56.3	56.3	56.3	51.9	110.3	281.3
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: P456062

CATALOG NUMBER: GALN-SA7B-740-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9407.4	9407.4	9407.4	9407.4	9407.4	9407.4	9407.4	9407.4	9407.4	9407.4
2.5°	10614.7	10859.2	11030.1	11073.4	10950.1	10893.8	10738.1	10495.7	10348.6	10342.1
5°	11185.9	11759.3	12157.4	12224.5	11986.5	11584.0	11105.9	10489.2	10127.9	10019.7
7.5°	11088.6	12092.5	12732.9	12826.0	12425.7	11657.6	10731.6	9738.5	9344.7	9178.1
10°	10688.3	11912.9	12828.1	12975.2	12440.8	11359.0	10182.0	9074.2	8585.3	8457.6
12.5°	10346.4	11584.0	12397.6	12600.9	12196.3	11116.7	9853.1	8648.0	8124.4	8005.4
15°	10197.2	11194.6	11692.2	11796.1	11729.0	10965.2	9818.5	8583.1	7983.8	7853.9
17.5°	10346.4	10863.5	10926.3	11032.3	11181.6	10950.1	10151.7	8935.8	8288.8	8128.7
20°	10738.1	10575.8	10316.1	10361.6	10703.4	11012.8	10744.5	9716.8	8929.3	8758.3
22.5°	11404.5	10504.4	9915.9	9876.9	10309.7	11222.7	11614.3	10774.8	9861.8	9693.0
25°	12222.3	10684.0	9768.8	9684.4	10156.0	11529.9	12559.8	12070.8	11073.4	10815.9
27.5°	13113.7	11056.1	9768.8	9686.5	10143.1	11802.6	13369.0	13217.6	12328.3	12047.0
30°	13602.7	11363.3	9909.4	9816.4	10303.2	11960.5	13801.7	14236.6	13271.7	12923.3
32.5°	14039.7	11789.6	10184.2	10008.9	10638.5	12194.2	14189.0	15102.1	14022.4	13788.8
35°	14442.2	12246.1	10562.8	10359.4	11079.9	12514.4	14617.4	16010.8	15067.5	14714.8
37.5°	14885.7	12776.2	11153.5	10980.4	11817.7	13137.5	15125.9	17205.1	16095.2	15651.6
40°	15368.2	13390.7	12124.9	12051.4	12990.4	13842.9	15768.5	18479.5	17267.9	16763.7
42.5°	15859.3	14098.2	13314.9	13436.1	14318.9	14831.6	16428.4	19459.6	18228.5	17672.5
45°	16305.1	15002.6	14861.9	15461.2	15868.0	15796.6	16917.4	20149.8	19065.8	18533.6
47.5°	16867.6	16320.2	16733.5	17657.3	17668.1	16846.0	17287.3	20714.5	19786.3	19254.1
50°	17497.2	17875.8	19150.2	20091.4	19838.2	17878.0	17720.1	21383.1	20530.6	20104.4
52.5°	18226.4	19617.6	21383.1	22428.1	21837.4	19003.1	18440.6	22105.7	21711.9	21303.0
55°	19074.5	20805.4	23609.4	24442.4	23847.4	20400.8	19535.3	23085.8	23046.9	22767.8
57.5°	20033.0	22060.3	24899.0	26026.2	25496.1	22040.8	21065.0	24009.7	23862.6	23706.8
59°	20790.2	22705.0	25468.0	26636.4	26316.1	23189.7	22092.7	24585.2	24050.8	23817.2
60°	21248.9	23142.1	25677.9	26718.6	26645.0	23873.4	22744.0	24866.5	24048.7	23724.1
62.5°	22609.8	23905.9	25597.8	26352.9	26640.7	25184.6	24654.5	25175.9	23603.0	23127.0
65°	23094.5	23652.7	24271.5	24178.5	24425.1	25117.5	25874.8	24836.2	22651.0	21973.7
67.5°	22151.2	20876.8	21095.3	20474.4	20353.2	22330.7	25379.3	23174.6	20788.1	19959.4
70°	18672.1	15993.5	15883.1	16168.7	15385.5	18079.2	22789.4	19974.6	17713.6	16774.6
72.5°	14697.5	11302.8	10372.4	11423.9	11400.1	13793.1	18931.7	14173.9	11967.0	11886.9
75°	11558.1	7869.1	6906.3	7077.2	7406.1	9985.1	15078.3	9000.7	7369.3	6715.9
77.5°	7758.7	5575.7	5201.3	4991.5	5346.3	6410.8	9539.4	4881.1	4132.5	3914.0
80°	4472.2	4050.3	4599.9	4175.8	4366.2	4039.5	4744.8	2239.3	1858.6	2012.2
82.5°	2910.1	2306.4	2457.9	1826.1	2496.8	2518.5	1523.2	662.1	560.4	595.0
85°	1819.6	1081.8	608.0	432.7	861.1	1583.8	476.0	41.1	47.6	41.1
87.5°	471.7	179.6	75.7	112.5	138.5	123.3	110.3	6.5	2.2	4.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)