

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: P457222

Luminaire Tested: **GALN-SA8C-740-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457222  
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-SA8C-740-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 1050mA 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: 40770 lumens  
Efficiency: N/A  
Efficacy: 95.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

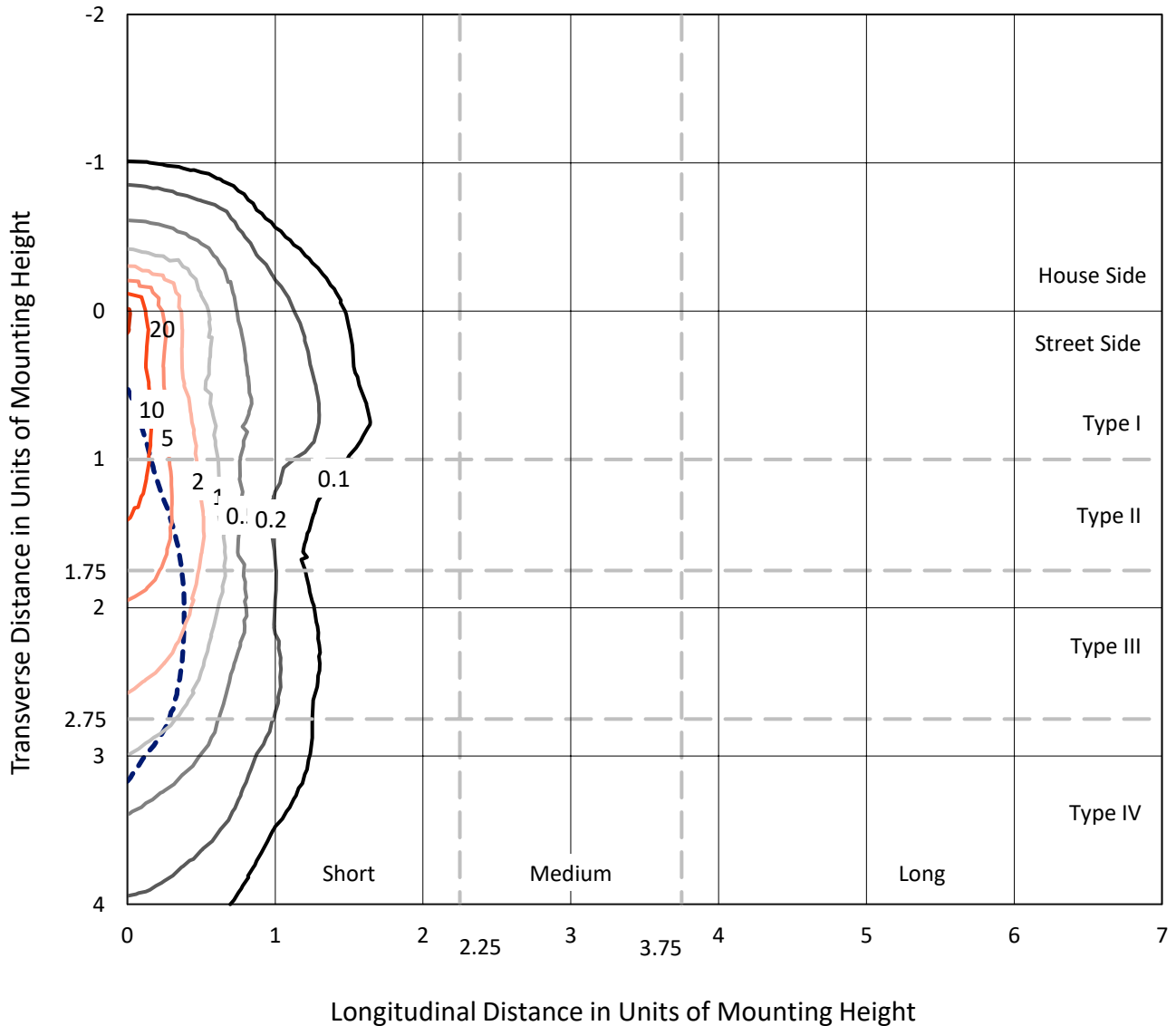
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

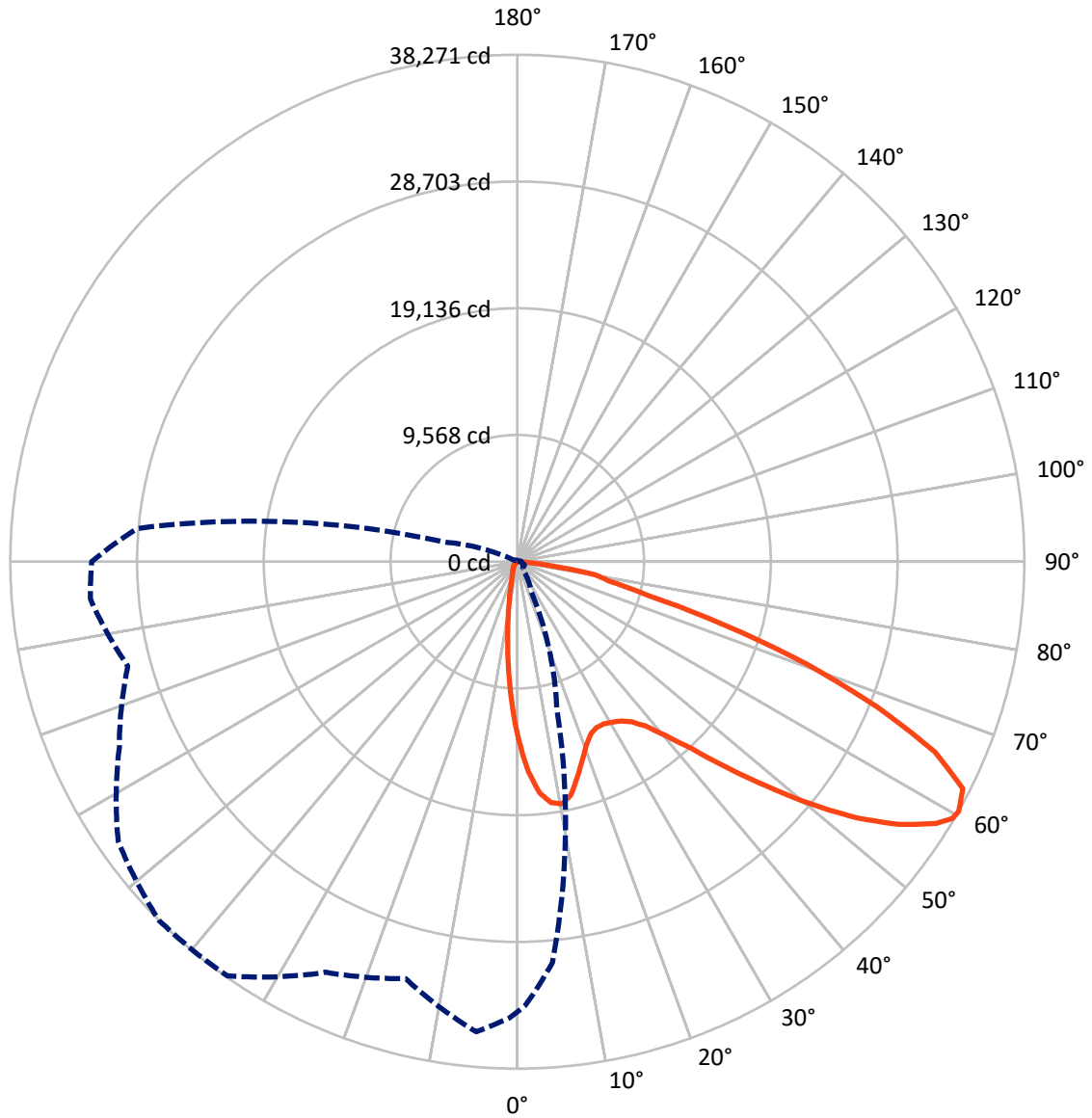
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.6 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	5028.6	0.0	5028.6
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	35741.4	0.0	35741.4
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	40770.0	0.0	40770.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1002.2	2.5
10°-20°	1990.4	4.9
20°-30°	2918.5	7.2
30°-40°	4340.3	10.6
40°-50°	6316.6	15.5
50°-60°	9109.0	22.3
60°-70°	10018.9	24.6
70°-80°	4487.7	11.0
80°-90°	586.4	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°	40770.0	100.0
0°-180°	40770.0	100.0

**Coefficient of Utilization**



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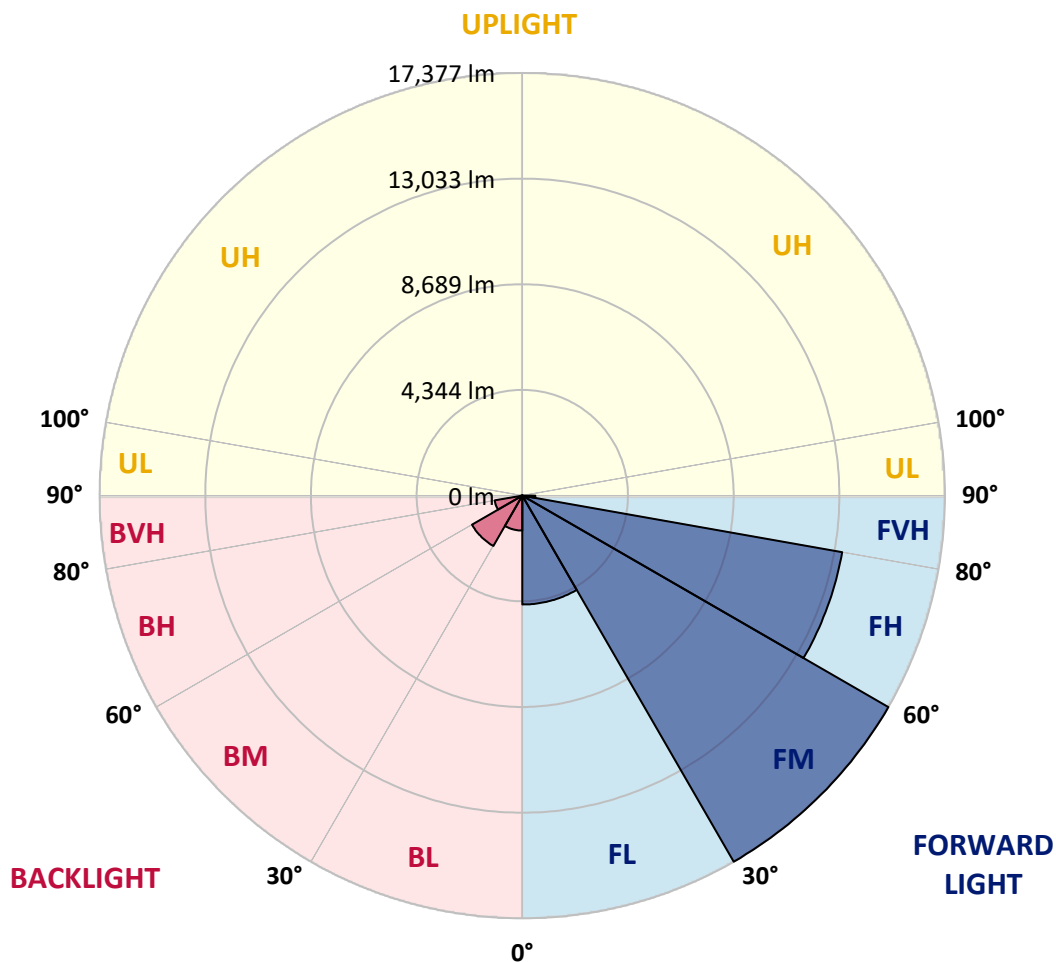
CATALOG NUMBER: GALN-SA8C-740-U-SLR-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4474.4	11.0			
FM	(30°-60°)	17377.4	42.6			
FH	(60°-80°)	13353.4	32.8			G5
FVH	(80°-90°)	536.3	1.3			G4/750
BL	(0°-30°)	1436.8	3.5	B3/2500		
BM	(30°-60°)	2388.5	5.9	B2/2500		
BH	(60°-80°)	1153.2	2.8	B3/2500		G3/2500
BVH	(80°-90°)	50.1	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13475.1	13475.1	13475.1	13475.1	13475.1	13475.1	13475.1	13475.1	13475.1	13475.1	13475.1
2.5°	14813.9	14748.8	14600.1	14147.6	13754.0	13239.5	12718.9	12309.8	12058.8	11597.0	11386.2
5°	14352.1	14383.1	13952.3	13022.6	11987.5	11280.9	10509.2	9895.6	9219.9	8792.3	8342.9
7.5°	13146.6	13084.6	12616.6	11321.2	10062.9	9040.2	8064.0	7270.6	6771.6	6371.8	6037.1
10°	12114.5	12068.1	11469.9	9802.6	8451.4	7685.9	7025.8	6331.5	5795.4	5209.7	4741.7
12.5°	11466.8	11361.5	10673.4	8931.7	7831.5	7118.7	6399.7	5677.6	4936.9	4345.0	3777.9
15°	11249.9	11098.0	10332.5	8631.1	7434.8	6529.9	5628.0	4797.5	3945.2	3291.3	2863.6
17.5°	11643.5	11392.4	10577.4	8578.4	6960.7	5761.3	4651.8	3570.2	2683.9	2184.9	1921.5
20°	12545.3	12257.1	11197.2	8525.7	6433.8	4899.7	3536.1	2522.7	1856.4	1583.7	1438.0
22.5°	13884.2	13487.5	12114.5	8609.4	5947.3	4059.9	2553.7	1782.0	1475.2	1304.7	1202.5
25°	15492.6	15161.0	13276.7	8906.9	5563.0	3399.8	1974.2	1456.6	1242.8	1137.4	1059.9
27.5°	17256.0	16726.1	14779.8	9263.3	5212.8	2888.4	1732.4	1301.6	1106.4	1010.3	970.0
30°	18511.2	18099.0	16038.1	9511.3	4775.8	2504.1	1583.7	1283.0	1109.5	994.8	920.4
32.5°	19750.8	19224.0	17091.8	9625.9	4456.6	2237.6	1369.8	1118.8	973.1	914.2	839.9
35°	21077.3	20525.6	18142.4	9564.0	4217.9	2060.9	1242.8	997.9	833.7	734.5	660.1
37.5°	22419.2	21836.6	19186.8	9340.8	4069.2	1989.6	1143.6	948.3	787.2	684.9	604.3
40°	24012.1	23234.3	20166.1	9158.0	3914.2	1952.5	1078.5	917.3	753.1	644.6	564.0
42.5°	25313.8	24573.1	21092.8	9061.9	3808.8	1865.7	1078.5	892.6	731.4	610.5	526.9
45°	26547.2	25778.7	22093.8	9139.4	3765.5	1757.2	1090.9	889.5	715.9	585.7	502.1
47.5°	27579.3	26912.9	23122.7	9430.7	3709.7	1639.4	1025.8	932.8	706.6	564.0	477.3
50°	28797.2	28152.6	24483.2	10019.5	3610.5	1521.7	945.2	1004.1	703.5	545.4	455.6
52.5°	30514.1	29816.8	26361.3	10688.9	3452.4	1341.9	870.9	994.8	691.1	514.5	433.9
55°	32612.3	32048.2	28536.9	11491.6	3235.5	1140.5	753.1	883.3	653.9	461.8	396.7
57.5°	33957.3	33476.9	30167.0	11838.7	2903.9	932.8	663.2	740.7	598.1	412.2	353.3
59°	34115.4	33681.5	30507.9	11724.1	2687.0	852.3	619.8	635.3	582.6	384.3	328.5
60°	33982.1	33532.7	30371.6	11500.9	2485.5	796.5	582.6	564.0	585.7	368.8	309.9
62.5°	33126.7	32358.1	29048.3	10369.7	2172.5	731.4	517.6	461.8	517.6	331.6	275.8
65°	31474.9	30322.0	26429.5	8776.8	2048.5	694.2	440.1	387.4	393.6	291.3	238.6
67.5°	28589.6	27136.1	22942.9	7131.1	1995.8	697.3	371.9	347.1	303.7	247.9	210.7
70°	24027.6	22577.2	18408.9	5866.7	1971.1	697.3	316.1	297.5	254.1	207.6	182.8
72.5°	17026.7	15464.7	12418.3	4608.4	1775.8	694.2	269.6	269.6	207.6	173.6	148.8
75°	9619.7	9632.1	7806.7	3260.3	1475.2	573.3	216.9	213.8	151.9	133.3	111.6
77.5°	5606.3	5507.2	5262.3	1400.8	684.9	260.3	151.9	130.2	105.4	96.1	80.6
80°	2882.2	2370.8	2308.9	508.3	244.8	164.3	105.4	74.4	68.2	62.0	55.8
82.5°	852.3	855.4	762.4	204.5	136.4	108.5	52.7	40.3	37.2	34.1	34.1
85°	58.9	37.2	43.4	62.0	83.7	43.4	3.1	9.3	9.3	12.4	15.5
87.5°	6.2	3.1	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°	13475.1	13475.1	13475.1	13475.1	13475.1	13475.1	13475.1	13475.1	13475.1	13475.1	13475.1
2.5°	11153.8	11290.2	11036.0	11042.2	10831.5	10899.7	10651.7	10732.3	10586.7	10698.2	11026.7
5°	8392.5	8423.5	8218.9	8153.8	8184.8	8311.9	8361.5	8135.2	8231.3	8042.3	8029.9
7.5°	5913.2	5950.4	5832.6	5817.1	6040.2	5987.5	6083.6	5851.2	5631.1	5727.2	5550.6
10°	4592.9	4438.0	4196.2	4128.1	4084.7	4112.6	4112.6	3901.8	3870.8	3787.2	3914.2
12.5°	3626.0	3436.9	3207.6	2897.7	2820.2	2814.0	2699.4	2513.4	2454.5	2383.2	2488.6
15°	2634.3	2556.8	2364.6	2191.1	2014.4	1980.4	1794.4	1642.5	1441.1	1413.2	1403.9
17.5°	1853.3	1738.6	1735.5	1636.3	1534.1	1465.9	1292.3	1118.8	1041.3	1032.0	1032.0
20°	1388.4	1348.1	1283.0	1270.6	1239.7	1162.2	1007.2	914.2	877.1	880.2	892.6
22.5°	1168.4	1140.5	1081.6	1053.7	1041.3	973.1	858.5	796.5	777.9	777.9	781.0
25°	1044.4	1019.6	954.5	911.1	895.7	846.1	756.2	709.7	694.2	694.2	694.2
27.5°	951.4	920.4	852.3	815.1	787.2	731.4	675.6	629.1	613.6	613.6	616.7
30°	886.4	852.3	790.3	740.7	697.3	647.7	601.2	560.9	542.3	539.3	542.3
32.5°	799.6	768.6	706.6	675.6	626.0	567.1	530.0	492.8	474.2	477.3	474.2
35°	622.9	613.6	570.2	579.5	551.6	502.1	468.0	427.7	406.0	402.9	409.1
37.5°	567.1	530.0	480.4	483.5	474.2	455.6	399.8	356.4	340.9	340.9	344.0
40°	523.8	486.6	430.8	402.9	406.0	406.0	347.1	300.6	285.1	282.0	288.2
42.5°	486.6	449.4	387.4	340.9	328.5	344.0	294.4	247.9	232.4	226.2	232.4
45°	461.8	421.5	350.2	297.5	260.3	278.9	241.7	204.5	185.9	185.9	182.8
47.5°	437.0	399.8	322.3	257.2	216.9	207.6	198.3	164.3	145.7	142.6	145.7
50°	415.3	378.1	291.3	223.1	182.8	161.2	161.2	130.2	117.8	111.6	114.7
52.5°	393.6	353.3	263.4	198.3	158.1	130.2	114.7	105.4	96.1	93.0	96.1
55°	362.6	322.3	235.5	170.5	136.4	108.5	89.9	86.8	80.6	74.4	80.6
57.5°	325.4	288.2	207.6	145.7	108.5	83.7	74.4	71.3	65.1	62.0	62.0
59°	303.7	269.6	192.1	127.1	96.1	74.4	68.2	65.1	58.9	52.7	55.8
60°	291.3	263.4	182.8	117.8	86.8	68.2	62.0	58.9	52.7	49.6	52.7
62.5°	257.2	235.5	161.2	96.1	68.2	49.6	43.4	46.5	43.4	40.3	43.4
65°	226.2	207.6	136.4	74.4	52.7	34.1	31.0	40.3	37.2	34.1	37.2
67.5°	201.4	179.8	114.7	55.8	37.2	18.6	21.7	34.1	34.1	31.0	34.1
70°	173.6	155.0	93.0	40.3	18.6	9.3	15.5	24.8	31.0	27.9	31.0
72.5°	142.6	120.9	71.3	27.9	9.3	0.0	9.3	21.7	31.0	27.9	31.0
75°	111.6	89.9	52.7	15.5	0.0	0.0	3.1	18.6	31.0	27.9	31.0
77.5°	80.6	65.1	31.0	3.1	0.0	0.0	3.1	18.6	31.0	27.9	31.0
80°	52.7	46.5	12.4	0.0	0.0	0.0	3.1	18.6	31.0	31.0	34.1
82.5°	34.1	24.8	0.0	0.0	0.0	0.0	6.2	24.8	34.1	37.2	37.2
85°	15.5	0.0	0.0	0.0	0.0	0.0	12.4	31.0	40.3	40.3	40.3
87.5°	0.0	0.0	0.0	0.0	0.0	6.2	21.7	37.2	46.5	46.5	46.5
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°	13475.1	13475.1	13475.1	13475.1	13475.1	13475.1	13475.1	13475.1	13475.1	13475.1	13475.1
2.5°	11082.5	11277.8	11553.6	11978.2	12322.2	12864.5	13279.8	13847.0	14420.3	14593.9	14863.5
5°	8156.9	8408.0	9034.0	9604.2	9963.7	11110.4	11835.6	12979.2	14005.0	14497.8	15033.9
7.5°	5665.2	5962.7	6440.0	7236.5	7992.7	8925.5	10097.0	11404.8	12907.9	13611.4	14367.6
10°	3976.2	4348.1	5020.6	5674.5	6626.0	7512.3	8668.3	10112.5	11770.5	12601.1	13549.4
12.5°	2510.3	2841.9	3731.4	4465.9	5652.8	6681.7	7747.9	9055.7	10977.2	11829.4	12824.2
15°	1434.9	1713.8	2129.1	3071.2	4388.4	5748.9	7078.4	8597.0	10571.2	11621.8	12697.2
17.5°	1069.2	1143.6	1329.5	1862.6	3062.0	4651.8	6461.7	8457.6	10847.0	12080.5	13307.7
20°	898.8	948.3	1035.1	1245.9	1952.5	3582.6	5860.5	8482.4	11739.5	13289.1	14454.4
22.5°	805.8	836.8	908.0	1044.4	1332.6	2609.5	5157.0	8628.0	12821.1	14773.6	16118.6
25°	706.6	746.9	808.9	926.6	1109.5	1809.9	4462.8	8953.4	14336.6	16657.9	17922.3
27.5°	629.1	666.3	728.3	836.8	973.1	1382.2	3653.9	9232.3	15935.8	18554.6	19589.7
30°	551.6	588.8	650.8	737.6	861.6	1118.8	2783.0	9396.6	17488.5	19977.1	20773.5
32.5°	486.6	517.6	576.4	653.9	756.2	948.3	2194.2	9226.1	18675.4	21269.4	21802.5
35°	421.5	458.7	508.3	579.5	669.4	808.9	1825.4	8637.3	19695.0	22598.9	22791.1
37.5°	353.3	396.7	449.4	514.5	585.7	743.8	1465.9	7986.5	20785.9	24257.0	23940.9
40°	297.5	337.8	387.4	458.7	523.8	681.8	1128.1	7292.3	21963.6	25812.8	25196.0
42.5°	241.7	285.1	344.0	409.1	517.6	595.0	874.0	6573.3	23020.4	27167.1	26330.3
45°	192.1	229.3	291.3	375.0	514.5	511.4	675.6	5863.6	23816.9	28134.0	27176.4
47.5°	151.9	182.8	244.8	365.7	474.2	433.9	542.3	5423.5	24653.7	29004.9	27824.1
50°	120.9	151.9	210.7	381.2	415.3	371.9	455.6	5494.8	25462.5	29448.0	28090.6
52.5°	102.3	133.3	182.8	300.6	319.2	325.4	399.8	5823.3	26507.0	29922.2	28620.6
55°	89.9	117.8	155.0	210.7	247.9	291.3	365.7	6061.9	27904.7	30938.7	29788.9
57.5°	71.3	102.3	139.5	179.8	204.5	254.1	337.8	6080.5	29169.1	32243.5	31341.6
59°	65.1	93.0	130.2	170.5	182.8	229.3	319.2	5922.5	29215.6	32438.7	32054.4
60°	58.9	89.9	124.0	158.1	173.6	216.9	303.7	5739.6	28794.1	32128.8	32348.8
62.5°	49.6	77.5	108.5	127.1	148.8	179.8	263.4	5076.4	26751.8	30724.9	31803.4
65°	43.4	68.2	93.0	105.4	124.0	155.0	232.4	4063.0	24495.6	28822.0	30241.4
67.5°	40.3	62.0	80.6	89.9	108.5	142.6	207.6	2869.8	21573.1	26407.8	27895.4
70°	37.2	58.9	71.3	83.7	96.1	120.9	176.7	1673.5	16617.6	22174.4	23745.6
72.5°	37.2	55.8	62.0	71.3	83.7	108.5	164.3	904.9	11361.5	16915.1	18945.1
75°	37.2	52.7	55.8	62.0	74.4	99.2	145.7	474.2	7345.0	11751.9	14504.0
77.5°	37.2	49.6	55.8	58.9	71.3	86.8	127.1	297.5	4893.5	8231.3	9802.6
80°	40.3	49.6	52.7	58.9	68.2	80.6	105.4	198.3	2876.0	4952.4	5965.8
82.5°	43.4	49.6	55.8	62.0	71.3	77.5	93.0	124.0	1326.4	3275.8	3706.6
85°	46.5	52.7	58.9	65.1	74.4	77.5	86.8	89.9	216.9	1478.3	1998.9
87.5°	49.6	55.8	62.0	68.2	80.6	80.6	80.6	80.6	74.4	158.1	402.9
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: P457222

CATALOG NUMBER: GALN-SA8C-740-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	13475.1	13475.1	13475.1	13475.1	13475.1	13475.1	13475.1	13475.1	13475.1	13475.1
2.5°	15204.4	15554.6	15799.4	15861.4	15684.8	15604.2	15381.0	15033.9	14823.2	14813.9
5°	16022.6	16843.8	17414.1	17510.2	17169.2	16592.8	15907.9	15024.6	14507.1	14352.1
7.5°	15883.1	17321.1	18238.4	18371.7	17798.4	16698.2	15371.7	13949.2	13385.2	13146.6
10°	15309.8	17063.9	18374.8	18585.6	17820.1	16270.5	14584.6	12997.8	12297.4	12114.5
12.5°	14820.1	16592.8	17758.1	18049.4	17469.9	15923.4	14113.5	12387.3	11637.3	11466.8
15°	14606.3	16035.0	16747.8	16896.5	16800.4	15706.4	14063.9	12294.3	11435.8	11249.9
17.5°	14820.1	15560.8	15650.7	15802.5	16016.4	15684.8	14541.2	12799.5	11872.8	11643.5
20°	15381.0	15148.6	14776.7	14841.8	15331.5	15774.6	15390.3	13918.2	12790.2	12545.3
22.5°	16335.6	15046.3	14203.4	14147.6	14767.4	16075.2	16636.2	15433.7	14125.9	13884.2
25°	17507.1	15303.6	13992.6	13871.8	14547.4	16515.3	17990.5	17290.1	15861.4	15492.6
27.5°	18783.9	15836.6	13992.6	13874.9	14528.8	16905.8	19149.6	18932.7	17658.9	17256.0
30°	19484.3	16276.7	14194.1	14060.8	14758.1	17132.1	19769.4	20392.4	19010.1	18511.2
32.5°	20110.3	16887.2	14587.7	14336.6	15238.5	17466.8	20324.2	21632.0	20085.5	19750.8
35°	20686.8	17541.1	15130.0	14838.7	15870.7	17925.4	20937.8	22933.6	21582.4	21077.3
37.5°	21322.1	18300.4	15976.1	15728.1	16927.5	18818.0	21666.1	24644.4	23054.5	22419.2
40°	22013.2	19180.6	17367.6	17262.2	18607.2	19828.3	22586.5	26469.8	24734.2	24012.1
42.5°	22716.7	20194.0	19072.1	19245.7	20510.1	21244.6	23531.8	27873.7	26110.3	25313.8
45°	23355.1	21489.4	21288.0	22146.5	22729.1	22626.8	24232.2	28862.3	27309.6	26547.2
47.5°	24160.9	23376.8	23968.8	25292.1	25307.6	24129.9	24762.1	29671.2	28341.7	27579.3
50°	25062.8	25605.1	27430.5	28778.6	28416.0	25608.2	25382.0	30628.8	29407.8	28797.2
52.5°	26107.2	28099.9	30628.8	32125.7	31279.6	27219.8	26414.0	31663.9	31099.9	30514.1
55°	27322.0	29801.3	33817.8	35011.0	34158.7	29221.8	27982.1	33067.8	33012.1	32612.3
57.5°	28695.0	31598.8	35664.9	37279.6	36520.3	31571.0	30173.2	34391.2	34180.4	33957.3
59°	29779.7	32522.4	36480.0	38153.5	37694.9	33216.6	31645.3	35215.5	34450.1	34115.4
60°	30436.7	33148.4	36780.6	38271.3	38165.9	34195.9	32578.2	35618.4	34447.0	33982.1
62.5°	32386.0	34242.4	36665.9	37747.5	38159.7	36074.0	35314.7	36061.6	33808.5	33126.7
65°	33080.2	33879.8	34766.2	34632.9	34986.2	35977.9	37062.6	35575.0	32444.9	31474.9
67.5°	31729.0	29903.6	30216.6	29327.2	29153.6	31986.2	36352.9	33194.9	29776.6	28589.6
70°	26745.6	22908.9	22750.8	23159.9	22038.0	25896.4	32643.3	28611.3	25372.7	24027.6
72.5°	21052.5	16189.9	14857.3	16363.5	16329.4	19757.0	27117.5	20302.5	17141.4	17026.7
75°	16555.6	11271.6	9892.5	10137.3	10608.4	14302.5	21597.9	12892.4	10555.7	9619.7
77.5°	11113.5	7986.5	7450.3	7149.7	7658.0	9182.8	13664.1	6991.7	5919.4	5606.3
80°	6405.9	5801.6	6588.8	5981.3	6254.1	5786.1	6796.4	3207.6	2662.2	2882.2
82.5°	4168.3	3303.7	3520.6	2615.7	3576.4	3607.4	2181.8	948.3	802.7	852.3
85°	2606.4	1549.6	870.9	619.8	1233.5	2268.6	681.8	58.9	68.2	58.9
87.5°	675.6	257.2	108.5	161.2	198.3	176.7	158.1	9.3	3.1	6.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)