

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: P452580

Luminaire Tested: **GALN-SA3C-740-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452580  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3C-740-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15072 lumens  
Efficiency: N/A  
Efficacy: 94.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

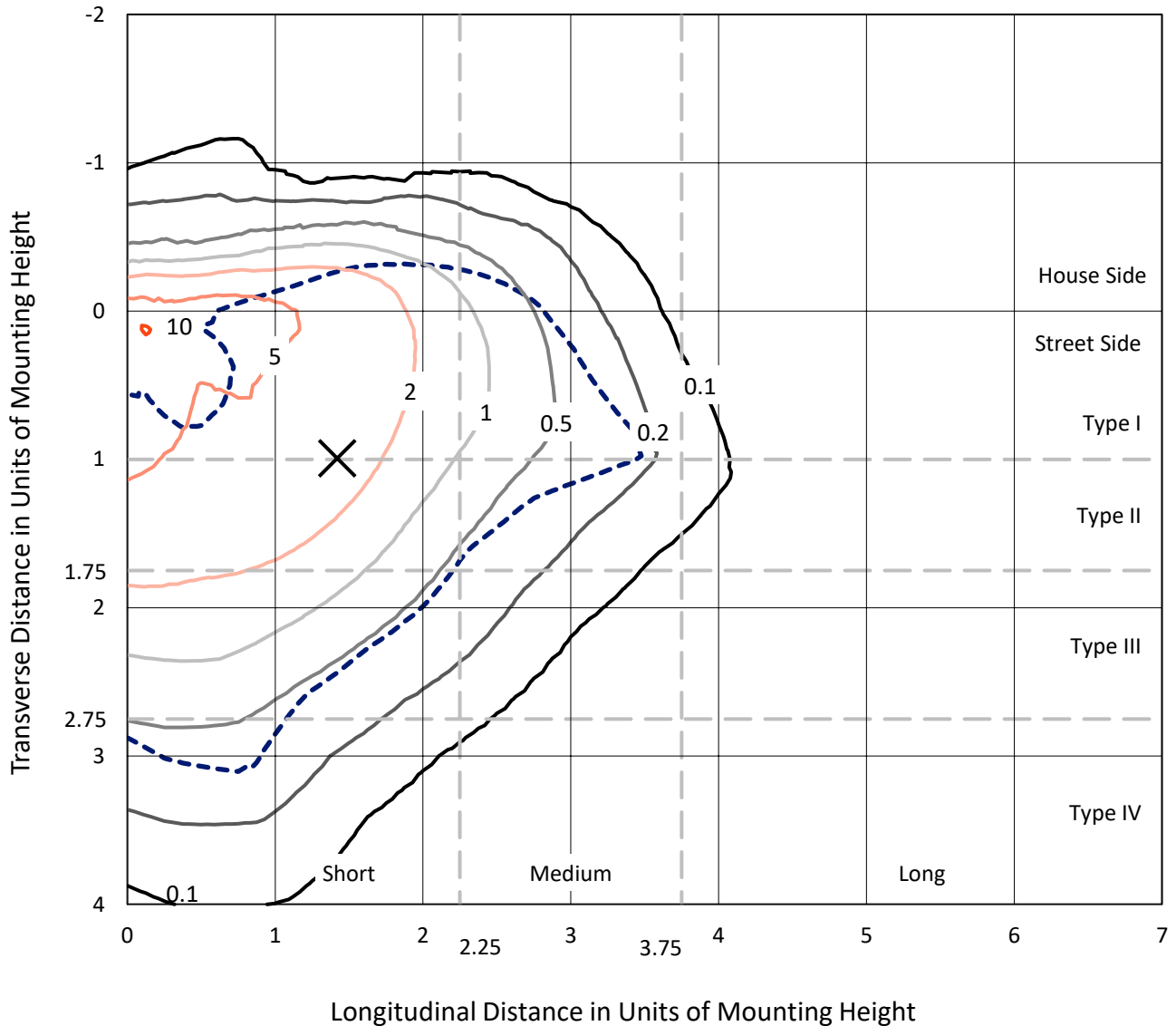
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

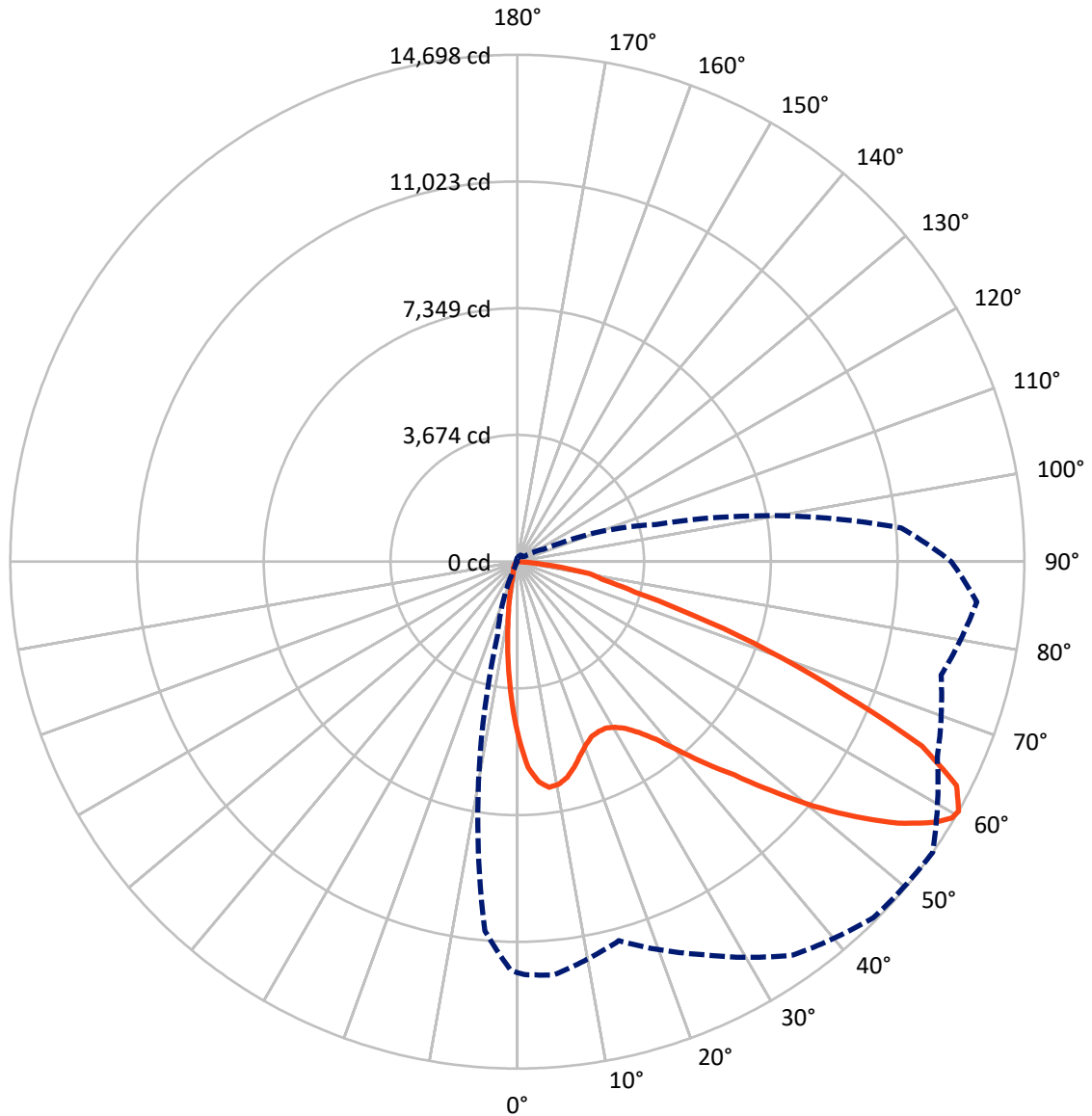
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2236.8	0.0	2236.8
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	12835.2	0.0	12835.2
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	15072.0	0.0	15072.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	377.9	2.5
10°-20°	744.2	4.9
20°-30°	1101.5	7.3
30°-40°	1642.0	10.9
40°-50°	2404.7	16.0
50°-60°	3471.6	23.0
60°-70°	3651.9	24.2
70°-80°	1502.3	10.0
80°-90°	175.9	1.2
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°	15072.0	100.0
0°-180°	15072.0	100.0

**Coefficient of Utilization**



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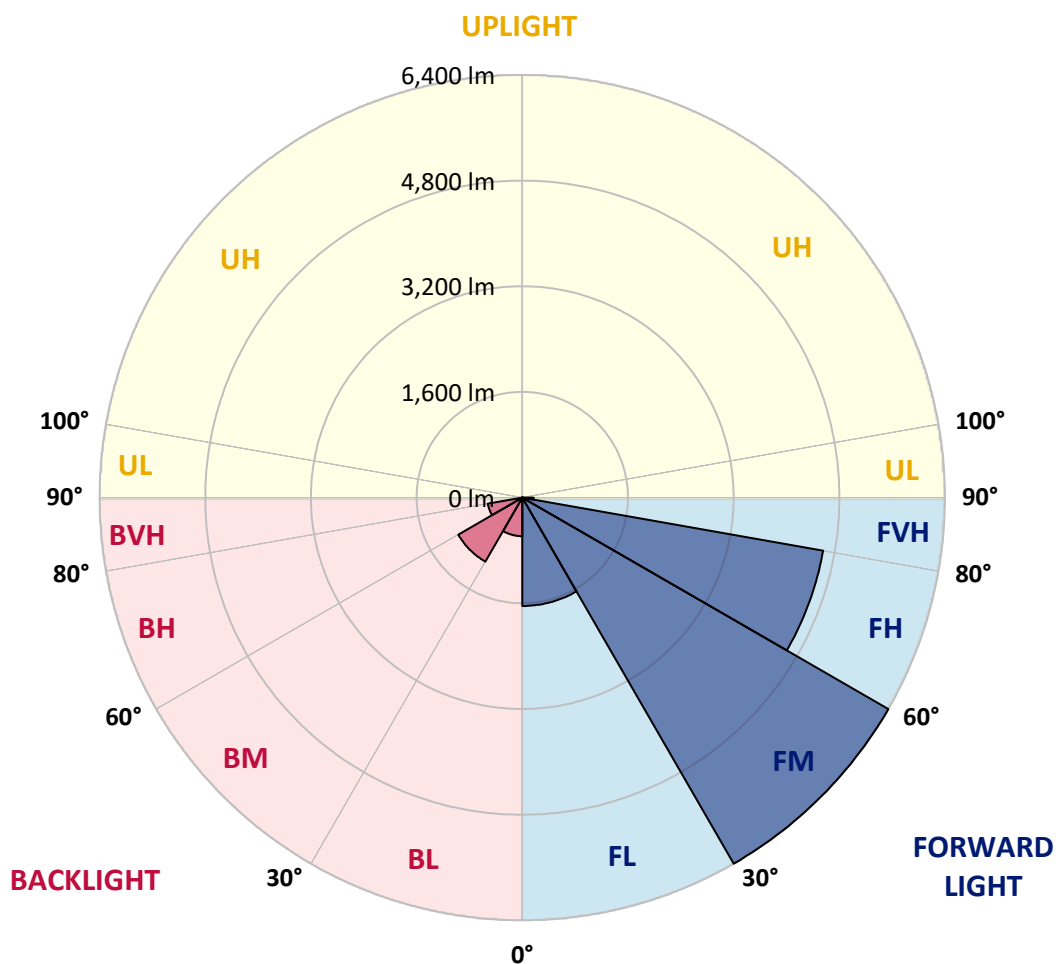
CATALOG NUMBER: GALN-SA3C-740-U-SLL-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1640.0	10.9			
FM	(30°-60°)	6399.6	42.5			
FH	(60°-80°)	4624.8	30.7			G2/5000
FVH	(80°-90°)	170.8	1.1			G2/225
BL	(0°-30°)	583.6	3.9	B2/1000		
BM	(30°-60°)	1118.6	7.4	B2/2500		
BH	(60°-80°)	529.4	3.5	B2/1000		G2/1000
BVH	(80°-90°)	5.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5103.3	5103.3	5103.3	5103.3	5103.3	5103.3	5103.3	5103.3	5103.3	5103.3	5103.3
2.5°	5575.5	5566.2	5648.6	5783.2	5918.9	5989.7	5975.7	5969.9	5857.4	5775.0	5602.2
5°	5563.9	5611.5	5758.8	6123.1	6399.2	6532.6	6572.0	6406.1	6186.9	5869.0	5476.9
7.5°	5230.9	5290.1	5530.3	6099.9	6590.6	6880.6	6870.2	6604.5	6152.1	5660.2	5101.0
10°	4817.9	4887.6	5169.5	5860.9	6497.8	6880.6	6901.5	6565.1	6002.4	5371.3	4783.1
12.5°	4526.8	4609.1	4921.2	5638.1	6258.8	6635.8	6660.2	6416.6	5889.9	5260.0	4610.3
15°	4428.2	4505.9	4822.6	5525.6	6004.7	6207.8	6202.0	6176.4	5845.8	5286.6	4619.6
17.5°	4597.5	4661.3	5018.6	5576.7	5766.9	5746.0	5776.2	5899.2	5855.1	5510.5	4911.9
20°	5034.9	5099.9	5483.9	5733.3	5584.8	5452.5	5466.5	5671.8	5940.9	5931.7	5369.0
22.5°	5637.0	5747.2	6095.2	6037.2	5560.4	5270.4	5241.4	5508.2	6087.1	6416.6	5986.2
25°	6399.2	6510.6	6782.0	6522.2	5679.9	5227.5	5200.8	5458.3	6264.6	6889.9	6681.1
27.5°	7039.6	7124.3	7394.6	6994.3	5856.3	5246.0	5201.9	5465.3	6408.5	7292.5	7266.9
30°	7552.3	7615.0	7773.9	7214.7	6008.2	5327.2	5276.2	5567.4	6472.3	7488.5	7741.4
32.5°	7965.3	8070.9	8120.8	7450.2	6226.3	5480.4	5393.4	5763.4	6627.7	7731.0	8239.1
35°	8437.5	8559.3	8495.5	7675.3	6514.0	5719.4	5612.6	6081.3	6863.2	7954.9	8816.9
37.5°	9036.1	9176.5	8927.1	7912.0	6818.0	6079.0	6029.1	6528.0	7220.5	8275.1	9436.4
40°	9655.6	9736.8	9345.9	8199.7	7191.5	6602.2	6649.8	7191.5	7688.1	8659.1	10095.3
42.5°	10139.4	10216.0	9776.3	8441.0	7573.2	7222.9	7421.2	7992.0	8224.0	9052.4	10587.2
45°	10509.5	10574.4	10074.4	8704.3	8088.3	8122.0	8496.7	8816.9	8761.2	9292.5	10966.5
47.5°	10797.2	10852.9	10304.1	8987.4	8859.8	9221.7	9794.8	9930.6	9318.0	9552.4	11309.9
50°	10915.5	10931.7	10376.1	9348.2	9735.7	10623.2	11220.6	11138.2	9956.1	9841.2	11675.4
52.5°	11069.8	11066.3	10581.4	9691.6	10559.3	11876.1	12472.4	12285.6	10677.7	10274.0	12086.1
55°	11474.7	11479.3	11021.1	10178.8	11261.2	12887.7	13525.8	13390.0	11438.7	11004.8	12565.2
57.5°	11966.6	11984.0	11646.4	10748.4	11931.8	13620.9	14312.3	14260.1	12467.7	11818.1	13017.6
59°	12030.4	12065.2	11942.2	11149.8	12329.7	13845.9	14581.5	14632.5	13018.8	12354.0	13262.4
60°	11914.4	11972.4	12028.1	11377.2	12562.9	13927.2	14597.7	14697.5	13432.9	12718.3	13373.8
62.5°	11408.6	11500.2	11779.8	12076.8	12854.1	13674.3	14079.1	14288.0	13945.7	13675.4	13384.2
65°	10746.1	10793.7	11197.4	12200.9	12289.1	12493.3	12618.6	12886.5	13329.7	14044.3	12905.1
67.5°	9660.3	9800.6	10294.8	11480.5	10622.0	10380.7	10349.4	10082.5	11233.4	13165.0	11724.1
70°	7980.4	8043.1	8652.1	9412.0	8016.4	7645.1	7793.6	7693.9	8707.8	11333.1	9436.4
72.5°	6034.9	6176.4	6771.6	7502.5	5454.9	4973.4	5382.9	5345.8	6540.7	9108.0	6482.7
75°	4293.6	4385.2	5143.9	5871.3	3820.3	3236.7	3384.0	3522.1	4566.2	7191.5	3830.7
77.5°	2950.2	3029.1	3598.7	3882.9	2786.6	2669.4	2442.0	2575.5	2991.9	4266.9	2084.7
80°	1779.6	1776.1	2150.8	2220.5	1940.9	2254.1	1891.0	2123.0	1808.6	1826.0	807.4
82.5°	1155.5	1143.9	1315.6	1433.9	1080.1	1135.8	762.2	1098.6	1178.7	509.3	255.2
85°	517.4	539.5	632.3	834.1	473.3	251.7	155.5	337.6	502.3	256.4	0.0
87.5°	53.4	41.8	111.4	203.0	65.0	7.0	23.2	11.6	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°	5103.3	5103.3	5103.3	5103.3	5103.3	5103.3	5103.3	5103.3	5103.3	5103.3	5103.3
2.5°	5522.1	5454.9	5254.2	5066.2	4905.0	4707.7	4580.1	4379.4	4257.6	4220.5	4226.3
5°	5300.6	5106.8	4725.1	4420.0	4080.1	3886.4	3591.7	3308.6	3155.5	3098.7	3073.1
7.5°	4836.5	4628.9	4168.3	3689.2	3324.9	2985.0	2765.7	2516.3	2345.7	2205.4	2181.0
10°	4492.0	4219.3	3648.6	3133.5	2845.8	2590.5	2371.3	2121.8	1921.1	1761.1	1717.0
12.5°	4285.5	3980.3	3343.4	2911.9	2639.3	2377.1	2091.7	1802.8	1597.5	1424.6	1344.6
15°	4248.3	3894.5	3257.6	2752.9	2416.5	2099.8	1720.4	1408.4	1197.2	1033.7	983.8
17.5°	4472.2	4048.8	3244.8	2587.1	2125.3	1676.4	1281.9	1023.2	785.4	693.7	657.8
20°	4871.3	4321.4	3243.7	2394.5	1826.0	1291.2	900.2	667.1	570.8	526.7	505.8
22.5°	5415.4	4692.7	3305.2	2228.6	1515.1	952.5	642.7	531.3	475.6	439.7	431.6
25°	6080.2	5242.6	3456.0	2116.0	1277.3	747.1	530.2	454.8	408.4	392.1	385.2
27.5°	6670.7	5769.2	3621.9	2000.0	1106.7	661.3	491.9	416.5	379.4	366.6	356.2
30°	7179.9	6247.2	3701.9	1846.9	969.9	605.6	498.8	445.5	396.8	358.5	341.1
32.5°	7604.5	6613.8	3754.1	1707.7	853.8	495.4	394.4	344.6	322.5	308.6	297.0
35°	8135.9	7010.6	3722.8	1628.8	794.7	451.3	359.6	297.0	259.9	232.0	220.4
37.5°	8692.7	7407.3	3668.3	1563.8	768.0	418.8	342.2	281.9	241.3	212.3	197.2
40°	9269.3	7775.1	3604.5	1503.5	743.6	397.9	331.8	269.1	228.5	197.2	181.0
42.5°	9797.2	8133.6	3578.9	1464.1	704.2	401.4	323.7	263.3	215.8	183.3	169.4
45°	10224.1	8473.5	3613.8	1443.2	661.3	395.6	326.0	256.4	205.3	174.0	160.1
47.5°	10680.0	8953.8	3726.3	1422.3	619.5	367.8	343.4	255.2	200.7	168.2	153.1
50°	11210.2	9568.6	3983.8	1371.3	568.5	337.6	365.4	254.1	194.9	161.3	146.2
52.5°	11916.7	10267.0	4249.5	1281.9	494.2	308.6	349.2	250.6	183.3	153.1	138.1
55°	12551.3	11002.5	4474.6	1176.4	400.2	266.8	314.4	235.5	163.6	139.2	125.3
57.5°	12813.4	11417.8	4467.6	1030.2	320.2	234.3	258.7	215.8	142.7	123.0	111.4
59°	12717.2	11365.6	4317.9	922.3	292.3	216.9	214.6	213.5	133.4	111.4	102.1
60°	12581.4	11175.4	4156.7	868.9	274.9	205.3	197.2	211.1	125.3	104.4	95.1
62.5°	12061.7	10386.5	3621.9	778.4	251.7	174.0	157.8	178.7	111.4	90.5	82.4
65°	11308.8	9174.2	3066.2	752.9	244.8	143.9	131.1	127.6	95.1	76.6	69.6
67.5°	9840.1	7763.5	2483.8	735.5	247.1	120.7	114.9	96.3	78.9	63.8	59.2
70°	7878.3	6053.5	2033.7	715.8	249.4	98.6	96.3	76.6	63.8	53.4	48.7
72.5°	4786.6	3588.2	1601.0	621.8	242.5	78.9	85.8	58.0	46.4	38.3	36.0
75°	2959.4	2456.0	993.1	483.8	160.1	58.0	60.3	36.0	31.3	24.4	24.4
77.5°	1714.6	1551.1	355.0	174.0	70.8	34.8	26.7	18.6	17.4	10.4	10.4
80°	711.1	569.6	123.0	59.2	38.3	16.2	5.8	1.2	0.0	0.0	0.0
82.5°	207.7	184.5	33.6	26.7	11.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	5103.3	5103.3	5103.3	5103.3	5103.3	5103.3	5103.3	5103.3	5103.3	5103.3	5103.3
2.5°	4127.7	4089.4	4072.0	4131.2	4076.6	4146.2	4092.9	4116.1	4184.5	4214.7	4292.4
5°	3089.4	3049.9	3031.4	3120.7	3116.1	3160.1	3155.5	3196.1	3230.9	3153.2	3233.2
7.5°	2152.0	2125.3	2169.4	2239.0	2313.3	2288.9	2288.9	2234.4	2252.9	2241.3	2237.9
10°	1636.9	1545.3	1522.1	1519.7	1547.6	1553.4	1522.1	1446.7	1474.5	1482.6	1531.3
12.5°	1287.7	1217.0	1109.1	1060.3	1047.6	1058.0	954.8	888.6	920.0	901.4	949.0
15°	923.5	865.4	801.6	747.1	732.0	711.1	598.6	519.7	510.4	513.9	522.1
17.5°	658.9	619.5	619.5	561.5	530.2	467.5	410.7	375.9	372.4	375.9	381.7
20°	486.1	465.2	462.9	447.8	413.0	371.2	331.8	324.8	322.5	328.3	330.6
22.5°	418.8	396.8	378.2	377.0	344.6	309.8	291.2	281.9	283.1	285.4	291.2
25°	374.7	351.5	331.8	320.2	297.0	272.6	255.2	250.6	250.6	254.1	255.2
27.5°	343.4	314.4	297.0	280.7	259.9	239.0	223.9	220.4	218.1	220.4	226.2
30°	321.4	292.3	270.3	245.9	229.7	210.0	197.2	192.6	191.4	192.6	197.2
32.5°	274.9	257.5	240.1	218.1	198.4	185.6	171.7	163.6	163.6	165.9	170.5
35°	207.7	198.4	197.2	191.4	175.2	161.3	145.0	136.9	136.9	141.5	143.9
37.5°	183.3	165.9	163.6	161.3	154.3	135.7	120.7	113.7	112.5	116.0	120.7
40°	167.1	147.3	136.9	134.6	135.7	114.9	98.6	91.6	91.6	92.8	97.4
42.5°	154.3	131.1	112.5	110.2	114.9	96.3	80.0	73.1	73.1	73.1	78.9
45°	143.9	117.2	95.1	83.5	90.5	78.9	65.0	58.0	55.7	58.0	60.3
47.5°	136.9	106.7	83.5	67.3	67.3	62.6	52.2	44.1	41.8	42.9	46.4
50°	131.1	97.4	70.8	54.5	48.7	49.9	39.4	33.6	31.3	31.3	34.8
52.5°	121.8	88.2	61.5	46.4	37.1	33.6	29.0	24.4	23.2	24.4	26.7
55°	110.2	80.0	53.4	38.3	29.0	23.2	20.9	17.4	16.2	17.4	20.9
57.5°	97.4	67.3	42.9	30.2	19.7	15.1	13.9	11.6	9.3	10.4	12.8
59°	89.3	60.3	37.1	24.4	15.1	10.4	10.4	8.1	5.8	7.0	10.4
60°	85.8	55.7	31.3	20.9	12.8	8.1	8.1	5.8	3.5	4.6	8.1
62.5°	73.1	46.4	24.4	12.8	5.8	1.2	3.5	1.2	0.0	1.2	3.5
65°	61.5	37.1	16.2	5.8	0.0	0.0	0.0	0.0	0.0	0.0	1.2
67.5°	51.0	27.8	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	40.6	18.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	27.8	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	17.4	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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



REPORT NUMBER: P452580  
 CATALOG NUMBER: GALN-SA3C-740-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5103.3	5103.3	5103.3	5103.3	5103.3	5103.3	5103.3	5103.3	5103.3	5103.3
2.5°	4297.1	4463.0	4565.0	4757.6	4954.8	5106.8	5297.1	5467.6	5538.4	5575.5
5°	3314.4	3545.3	3741.4	4034.9	4307.5	4639.3	4975.7	5372.5	5524.5	5563.9
7.5°	2326.0	2561.5	2766.9	3106.8	3495.4	3939.7	4443.2	4946.7	5168.3	5230.9
10°	1679.8	1931.6	2182.2	2522.1	2885.2	3366.6	3891.0	4514.0	4769.2	4817.9
12.5°	1060.3	1330.6	1737.8	2157.8	2541.8	2929.3	3478.0	4155.5	4437.4	4526.8
15°	614.9	816.7	1124.1	1671.7	2160.1	2672.9	3271.5	4021.0	4336.5	4428.2
17.5°	411.8	481.4	692.6	1111.4	1756.4	2436.2	3219.3	4131.2	4480.4	4597.5
20°	346.9	378.2	452.4	677.5	1352.7	2225.1	3233.2	4430.5	4888.7	5034.9
22.5°	305.1	334.1	381.7	487.2	944.3	1962.9	3299.4	4858.6	5450.2	5637.0
25°	269.1	298.1	339.9	403.7	634.6	1660.1	3444.4	5485.0	6193.8	6399.2
27.5°	239.0	265.7	301.6	356.2	488.4	1322.5	3573.1	6095.2	6872.5	7039.6
30°	211.1	233.2	268.0	309.8	406.0	1019.7	3638.1	6628.9	7366.7	7552.3
32.5°	183.3	204.2	237.8	271.5	334.1	777.3	3592.9	7021.0	7847.0	7965.3
35°	156.6	178.7	206.5	237.8	288.9	627.6	3366.6	7461.8	8344.7	8437.5
37.5°	134.6	153.1	182.1	206.5	261.0	502.3	3092.9	7858.6	8902.7	9036.1
40°	113.7	132.3	161.3	183.3	240.1	395.6	2845.8	8299.4	9490.9	9655.6
42.5°	92.8	114.9	140.4	176.3	206.5	301.6	2546.4	8656.8	9932.9	10139.4
45°	74.2	98.6	126.5	175.2	179.8	229.7	2257.6	8935.2	10323.8	10509.5
47.5°	59.2	83.5	121.8	163.6	147.3	182.1	2092.8	9226.4	10648.7	10797.2
50°	47.6	69.6	127.6	143.9	123.0	154.3	2088.2	9551.2	10816.9	10915.5
52.5°	38.3	56.8	107.9	110.2	104.4	135.7	2213.5	9916.6	10988.6	11069.8
55°	32.5	47.6	70.8	81.2	94.0	123.0	2307.5	10479.3	11398.1	11474.7
57.5°	25.5	40.6	54.5	65.0	83.5	112.5	2320.2	10913.2	11916.7	11966.6
59°	22.0	34.8	48.7	58.0	76.6	105.6	2268.0	10939.9	11950.3	12030.4
60°	18.6	31.3	42.9	54.5	70.8	99.8	2211.2	10746.1	11825.0	11914.4
62.5°	13.9	24.4	31.3	44.1	58.0	85.8	1942.0	10069.8	11345.9	11408.6
65°	9.3	17.4	23.2	32.5	45.2	74.2	1582.4	9192.7	10605.8	10746.1
67.5°	5.8	12.8	18.6	24.4	37.1	62.6	1127.6	7883.0	9569.8	9660.3
70°	3.5	8.1	13.9	19.7	29.0	49.9	669.4	6231.0	7961.9	7980.4
72.5°	2.3	5.8	9.3	13.9	23.2	45.2	324.8	4061.6	5813.3	6034.9
75°	1.2	3.5	5.8	10.4	18.6	37.1	155.5	2713.5	4229.8	4293.6
77.5°	0.0	1.2	3.5	7.0	13.9	29.0	90.5	1781.9	2884.0	2950.2
80°	0.0	0.0	2.3	5.8	10.4	18.6	54.5	1051.1	1747.1	1779.6
82.5°	0.0	0.0	1.2	4.6	7.0	13.9	27.8	461.7	1143.9	1155.5
85°	0.0	0.0	1.2	4.6	5.8	9.3	10.4	62.6	508.1	517.4
87.5°	0.0	0.0	1.2	5.8	5.8	5.8	5.8	3.5	42.9	53.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)