

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: P528705

Luminaire Tested: **GALN-SA3D-740-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528705  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3D-740-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12767 lumens  
Efficiency: N/A  
Efficacy: 69.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G1

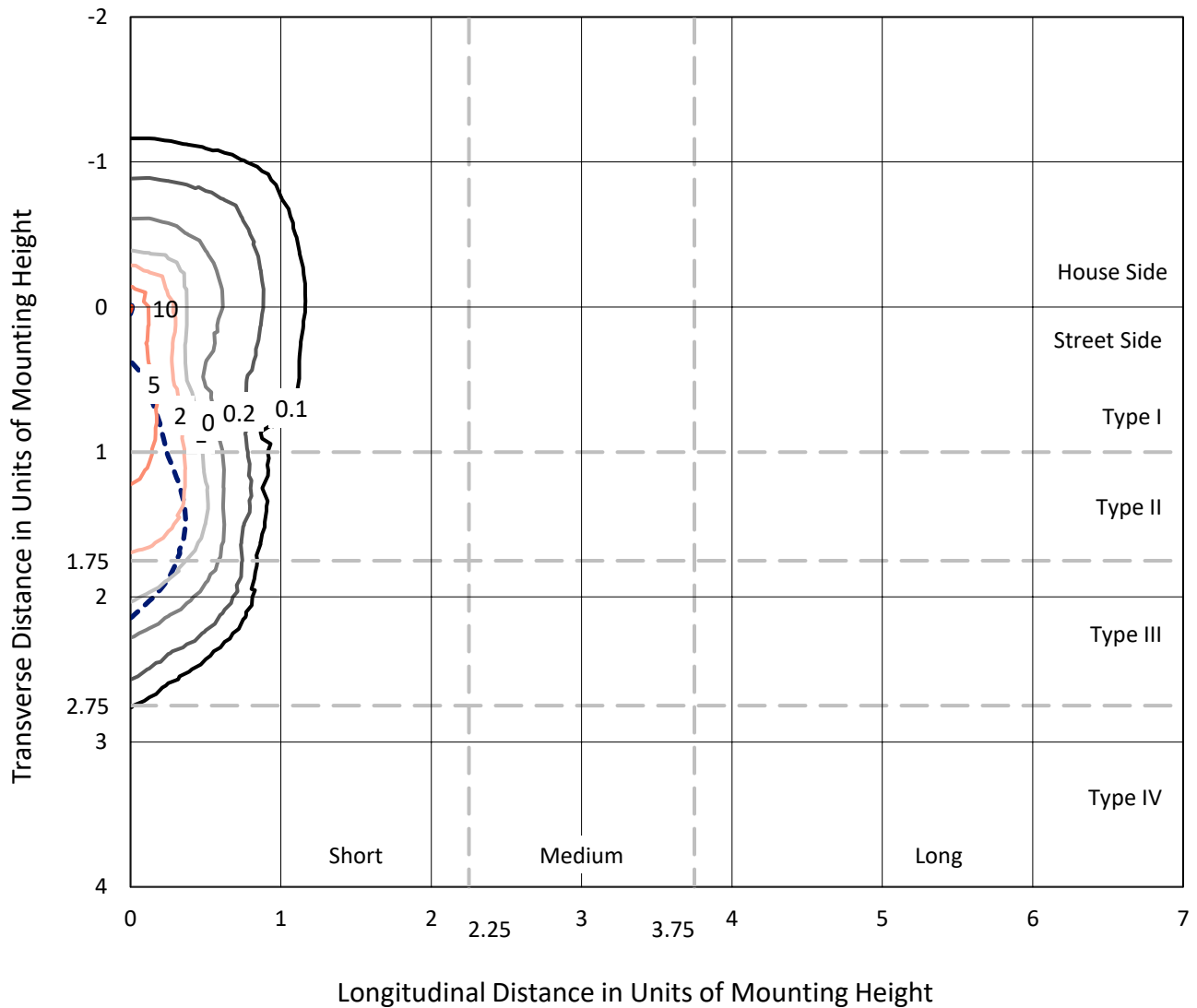
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

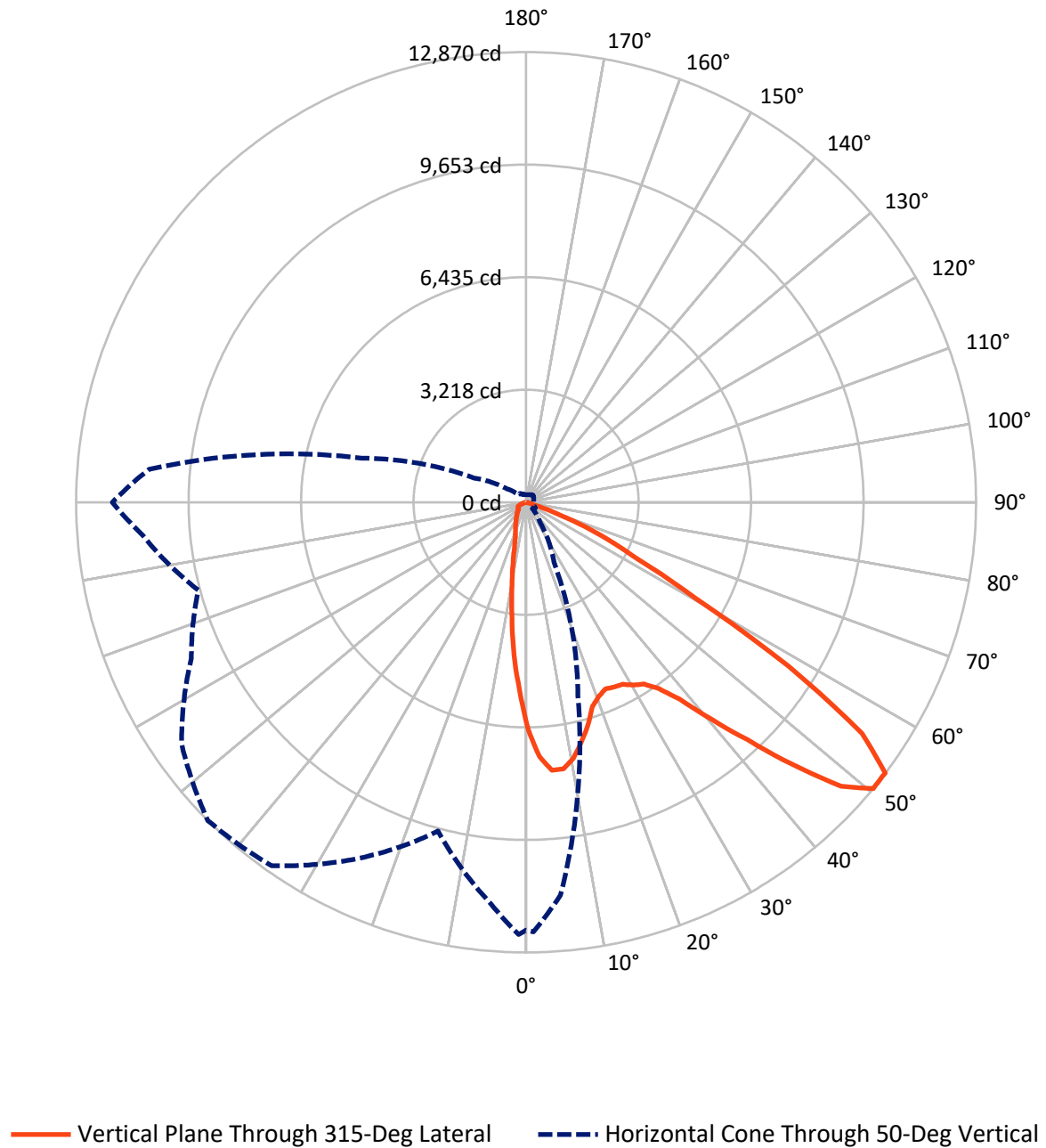
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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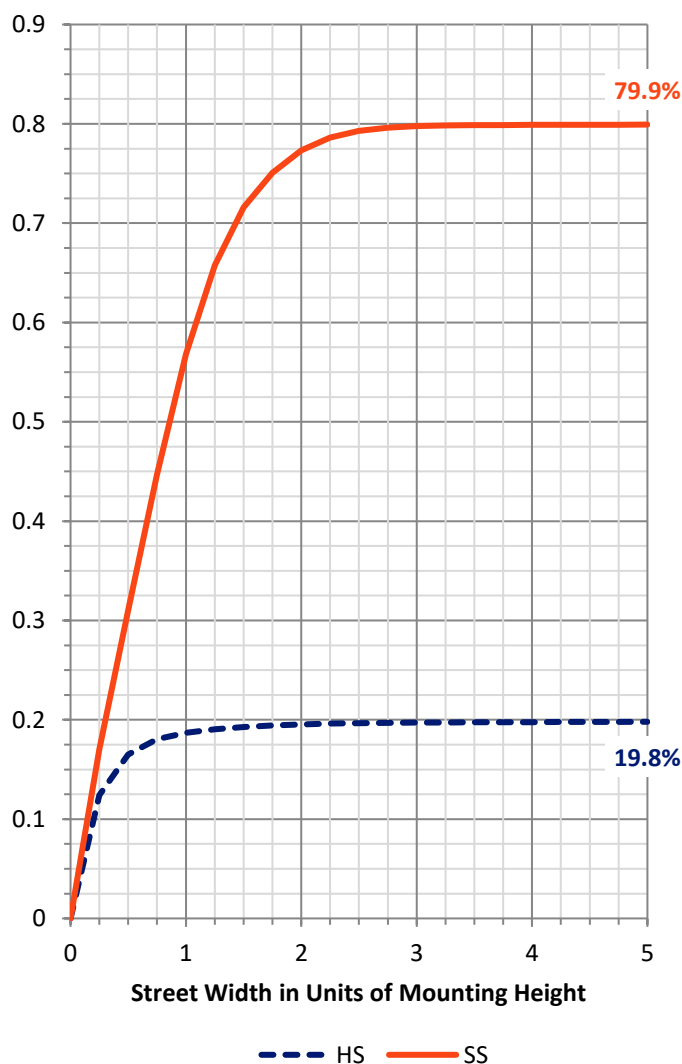
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2557.2	0.0	2557.2
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	10209.8	0.0	10209.8
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	12767.0	0.0	12767.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	471.9	3.7
10°-20°	937.9	7.3
20°-30°	1409.0	11.0
30°-40°	2114.9	16.6
40°-50°	2972.4	23.3
50°-60°	3206.2	25.1
60°-70°	1488.7	11.7
70°-80°	140.1	1.1
80°-90°	25.8	0.2
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°	12767.0	100.0
0°-180°	12767.0	100.0

**Coefficient of Utilization**



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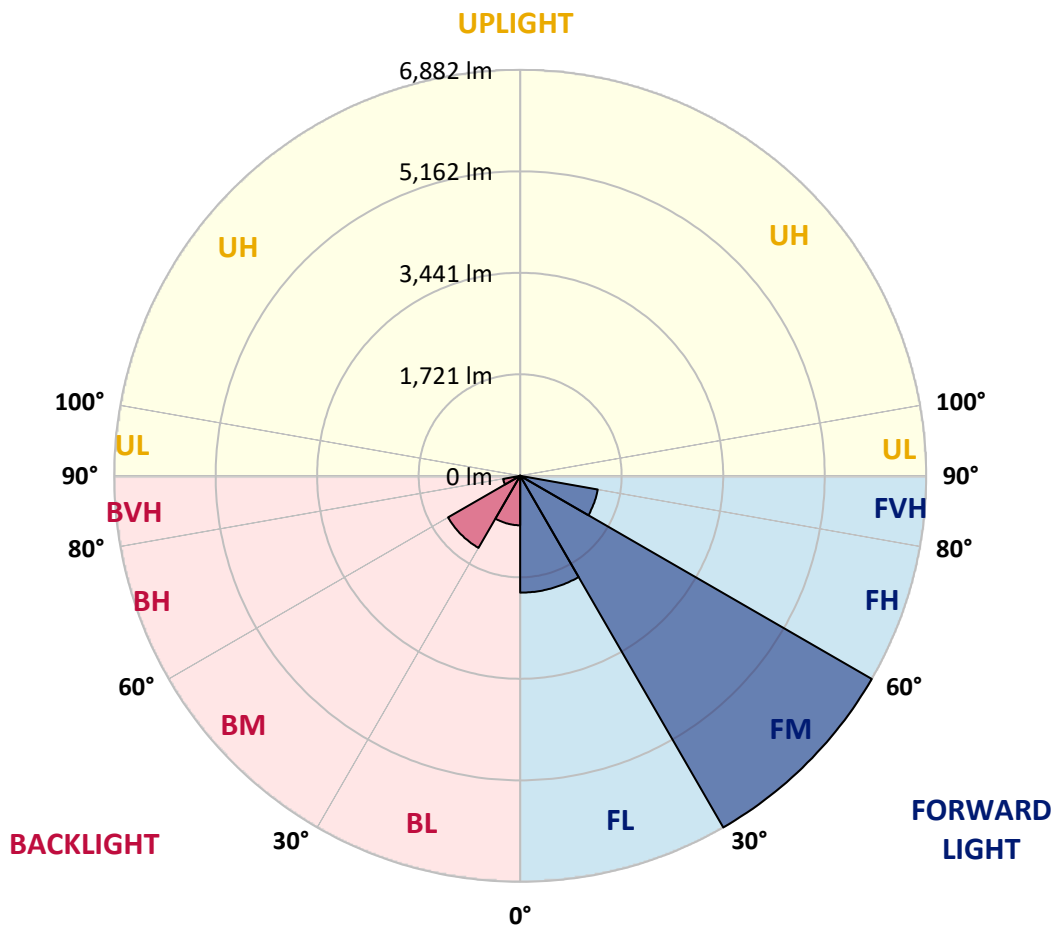
CATALOG NUMBER: GALN-SA3D-740-U-SLR-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1980.7	15.5			
FM (30°-60°)	6882.4	53.9			
FH (60°-80°)	1335.1	10.5			G1/1800
FVH (80°-90°)	11.6	0.1			G1/100
BL (0°-30°)	838.2	6.6	B2/1000		
BM (30°-60°)	1411.2	11.1	B2/2500		
BH (60°-80°)	293.6	2.3	B1/500		G1/500
BVH (80°-90°)	14.2	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-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6474.5	6474.5	6474.5	6474.5	6474.5	6474.5	6474.5	6474.5	6474.5	6474.5	6474.5
2.5°	6730.3	6626.5	6494.7	6385.8	6223.7	5896.9	5808.3	5701.9	5613.2	5494.2	5327.0
5°	6119.9	6086.9	6026.1	5615.8	5319.4	4924.3	4600.0	4463.2	4283.4	4136.5	4030.1
7.5°	5653.8	5522.1	5329.5	4916.7	4443.0	4020.0	3660.3	3450.0	3211.9	3130.9	2986.5
10°	5154.8	5185.2	4901.5	4321.4	3748.9	3407.0	3184.0	2981.4	2766.1	2624.2	2419.1
12.5°	4995.2	4896.4	4678.5	3961.7	3472.8	3153.6	2882.6	2631.8	2403.9	2175.9	1978.3
15°	5099.0	4947.0	4643.1	3885.7	3260.0	2862.3	2522.9	2183.5	1973.2	1681.9	1476.8
17.5°	5471.4	5349.8	4942.0	3966.8	3151.1	2583.7	2079.6	1730.1	1408.4	1144.9	1041.1
20°	6092.0	5919.7	5408.1	4070.6	2989.0	2246.8	1687.0	1256.4	952.4	841.0	782.7
22.5°	6699.9	6606.2	5960.3	4270.7	2844.6	1947.9	1266.5	846.0	711.8	691.5	653.5
25°	7857.5	7576.4	6803.8	4633.0	2733.2	1666.7	955.0	681.4	602.9	587.7	592.7
27.5°	8546.5	8310.9	7584.0	4873.6	2609.0	1451.4	808.0	625.7	572.5	539.5	526.9
30°	9207.6	8934.1	7971.5	5015.4	2343.1	1223.5	716.9	600.3	587.7	539.5	524.3
32.5°	9716.8	9448.3	8531.3	5228.2	2234.2	1076.5	590.2	468.6	435.7	430.6	476.2
35°	10497.0	10210.7	9010.1	5344.7	2150.6	1000.6	511.7	418.0	380.0	364.8	367.3
37.5°	11223.9	11028.9	9453.3	5390.3	2061.9	977.8	458.5	374.9	342.0	331.8	329.3
40°	11831.9	11396.2	9873.8	5438.5	2023.9	934.7	425.6	342.0	319.2	304.0	304.0
42.5°	12110.5	11667.2	10345.0	5410.6	2013.8	866.3	425.6	314.1	296.4	281.2	278.6
45°	12049.7	11869.9	10555.2	5397.9	2013.8	797.9	387.6	306.5	281.2	260.9	255.8
47.5°	12206.8	11971.2	10818.7	5451.1	1973.2	749.8	326.8	321.7	266.0	240.6	235.6
50°	12234.6	12280.2	11277.1	5727.2	1884.6	689.0	255.8	316.6	255.8	217.8	212.8
52°	12417.0	12133.3	11416.5	5874.1	1790.9	643.4	215.3	271.0	245.7	202.6	197.6
52.5°	12166.2	12351.2	11449.4	5927.3	1801.0	613.0	207.7	266.0	240.6	202.6	190.0
55°	11885.1	12062.4	11315.1	6041.3	1651.5	481.3	162.1	192.5	217.8	177.3	169.7
57.5°	10329.8	10509.6	9833.3	5532.2	1345.1	339.4	134.3	144.4	192.5	164.6	157.0
60°	9182.3	9053.1	8252.7	4615.2	955.0	190.0	106.4	111.5	210.2	152.0	149.5
62.5°	8392.0	8115.9	6897.5	3564.0	582.6	126.7	83.6	86.1	162.1	141.9	141.9
65°	6208.5	5899.5	4582.3	2155.6	286.2	88.7	63.3	68.4	101.3	121.6	121.6
67.5°	3543.7	3424.7	2213.9	972.7	119.1	55.7	48.1	53.2	78.5	98.8	93.7
70°	1628.8	1461.6	851.1	205.2	55.7	38.0	38.0	43.1	63.3	73.5	68.4
72.5°	476.2	450.9	207.7	32.9	22.8	22.8	25.3	32.9	48.1	55.7	50.7
75°	35.5	22.8	15.2	10.1	10.1	15.2	20.3	32.9	48.1	53.2	43.1
77.5°	2.5	5.1	2.5	2.5	7.6	15.2	22.8	40.5	63.3	65.9	48.1
80°	2.5	2.5	0.0	2.5	7.6	15.2	25.3	45.6	70.9	76.0	40.5
82.5°	0.0	0.0	0.0	2.5	10.1	20.3	30.4	48.1	65.9	81.1	43.1
85°	0.0	0.0	0.0	2.5	15.2	27.9	35.5	12.7	7.6	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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6474.5	6474.5	6474.5	6474.5	6474.5	6474.5	6474.5	6474.5	6474.5	6474.5	6474.5
2.5°	5446.1	5380.2	5354.9	5377.7	5370.1	5362.5	5501.8	5471.4	5466.3	5511.9	5501.8
5°	4088.3	3971.8	4291.0	4161.8	4296.1	4377.1	4392.3	4399.9	4493.6	4394.8	4524.0
7.5°	2913.0	2943.4	2940.9	3027.0	3181.5	3318.3	3399.4	3336.0	3331.0	3318.3	3262.6
10°	2327.9	2274.7	2264.5	2244.3	2292.4	2408.9	2507.7	2429.2	2373.5	2449.5	2426.7
12.5°	1902.3	1828.9	1788.3	1707.3	1709.8	1788.3	1788.3	1788.3	1844.1	1887.1	1920.1
15°	1459.0	1398.2	1398.2	1317.2	1299.5	1302.0	1342.5	1347.6	1436.2	1461.6	1474.2
17.5°	1020.8	987.9	1025.9	1058.8	1038.6	1043.6	1058.8	1063.9	1076.5	1066.4	1091.7
20°	785.2	780.2	790.3	848.6	891.6	917.0	899.2	873.9	858.7	823.2	823.2
22.5°	666.2	676.3	694.1	742.2	797.9	813.1	792.8	734.6	689.0	683.9	686.5
25°	592.7	602.9	630.7	661.1	691.5	716.9	696.6	653.5	628.2	605.4	605.4
27.5°	547.1	552.2	567.4	590.2	615.5	635.8	628.2	605.4	577.5	567.4	544.6
30°	511.7	519.3	537.0	542.1	564.9	575.0	562.3	557.3	539.5	526.9	519.3
32.5°	493.9	491.4	504.1	509.1	511.7	519.3	504.1	511.7	509.1	488.9	481.3
35°	372.4	392.6	425.6	453.4	461.0	471.1	468.6	458.5	430.6	407.8	380.0
37.5°	334.4	347.0	364.8	387.6	418.0	430.6	425.6	400.2	367.3	352.1	347.0
40°	309.0	316.6	331.8	347.0	377.4	400.2	382.5	359.7	334.4	321.7	314.1
42.5°	286.2	288.8	296.4	311.6	334.4	369.8	339.4	309.0	298.9	291.3	286.2
45°	260.9	260.9	271.0	278.6	304.0	336.9	306.5	278.6	273.6	268.5	266.0
47.5°	240.6	243.2	248.2	258.4	278.6	301.4	281.2	258.4	245.7	243.2	238.1
50°	215.3	217.8	228.0	238.1	263.4	276.1	263.4	238.1	225.4	217.8	217.8
52°	195.0	202.6	212.8	233.0	250.8	271.0	255.8	228.0	212.8	205.2	200.1
52.5°	192.5	197.6	207.7	230.5	250.8	268.5	253.3	225.4	207.7	202.6	197.6
55°	172.2	179.8	197.6	225.4	248.2	268.5	248.2	222.9	197.6	184.9	179.8
57.5°	164.6	169.7	192.5	228.0	245.7	268.5	248.2	222.9	197.6	174.8	169.7
60°	157.0	167.2	192.5	220.4	243.2	271.0	250.8	220.4	192.5	164.6	164.6
62.5°	149.5	157.0	190.0	215.3	233.0	260.9	240.6	215.3	184.9	157.0	154.5
65°	129.2	141.9	167.2	179.8	200.1	225.4	205.2	187.4	162.1	139.3	136.8
67.5°	98.8	103.9	124.1	139.3	152.0	174.8	164.6	141.9	124.1	106.4	106.4
70°	68.4	73.5	88.7	96.3	108.9	121.6	114.0	96.3	83.6	73.5	70.9
72.5°	48.1	50.7	55.7	60.8	65.9	70.9	68.4	55.7	48.1	45.6	43.1
75°	38.0	43.1	45.6	43.1	40.5	38.0	38.0	32.9	27.9	25.3	25.3
77.5°	38.0	40.5	38.0	32.9	27.9	25.3	22.8	20.3	15.2	12.7	15.2
80°	32.9	32.9	32.9	27.9	25.3	22.8	20.3	17.7	15.2	12.7	12.7
82.5°	35.5	35.5	32.9	27.9	27.9	22.8	22.8	20.3	17.7	12.7	12.7
85°	0.0	0.0	0.0	5.1	12.7	22.8	22.8	20.3	17.7	15.2	15.2
87.5°	0.0	0.0	0.0	0.0	2.5	5.1	10.1	12.7	15.2	15.2	15.2
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°	6474.5	6474.5	6474.5	6474.5	6474.5	6474.5	6474.5	6474.5	6474.5	6474.5	6474.5
2.5°	5593.0	5689.2	5871.6	6054.0	6165.4	6297.2	6535.3	6661.9	6826.6	6907.6	7067.2
5°	4506.3	4734.3	4815.3	5023.0	5245.9	5468.9	5823.5	6213.6	6537.8	6760.7	7049.5
7.5°	3287.9	3341.1	3655.2	3794.5	4159.3	4564.6	5048.4	5539.8	5950.1	6314.9	6535.3
10°	2464.7	2659.7	2857.3	3123.3	3417.1	3835.0	4298.6	4840.7	5372.6	5737.4	6016.0
12.5°	1980.8	2135.4	2398.8	2685.0	3047.3	3323.4	3789.4	4326.5	5015.4	5372.6	5739.9
15°	1499.6	1697.1	1996.0	2292.4	2674.9	2966.2	3437.4	4113.7	5000.2	5491.7	5808.3
17.5°	1112.0	1246.3	1514.8	1846.6	2236.7	2647.0	3282.8	4090.9	5170.0	5755.1	6081.9
20°	851.1	896.7	1066.4	1362.8	1785.8	2322.8	3032.1	4189.7	5671.5	6396.0	6727.8
22.5°	689.0	709.3	775.1	980.3	1390.6	2039.1	2913.0	4258.1	6236.4	7163.5	7606.8
25°	600.3	595.3	638.3	727.0	1086.7	1773.1	2761.0	4516.4	6927.9	8065.2	8462.9
27.5°	547.1	547.1	567.4	630.7	901.8	1600.9	2664.8	4701.3	7624.5	8858.1	9073.4
30°	519.3	524.3	582.6	602.9	749.8	1395.7	2505.2	4888.8	8290.7	9364.7	9661.1
32.5°	481.3	461.0	448.4	499.0	630.7	1210.8	2345.6	4967.3	8830.2	9985.3	10238.6
35°	369.8	359.7	374.9	412.9	542.1	1053.7	2168.3	5056.0	9450.8	10704.7	10755.3
37.5°	334.4	331.8	342.0	374.9	455.9	917.0	2041.6	5033.2	9924.5	11299.9	11163.2
40°	309.0	309.0	316.6	344.5	407.8	820.7	1909.9	5012.9	10383.0	11968.7	11568.4
42.5°	288.8	288.8	301.4	319.2	387.6	757.4	1811.1	4985.0	10768.0	12379.0	11806.6
45°	260.9	268.5	288.8	306.5	392.6	714.3	1737.7	4878.7	10899.7	12374.0	11692.6
47.5°	240.6	250.8	271.0	296.4	354.6	701.7	1687.0	4784.9	10854.1	12070.0	11335.4
50°	217.8	230.5	258.4	301.4	301.4	676.3	1633.8	4868.5	10821.2	11834.4	10993.4
52°	202.6	212.8	248.2	293.8	263.4	623.1	1600.9	5030.6	10955.4	11804.0	10841.5
52.5°	200.1	207.7	240.6	288.8	250.8	613.0	1578.1	5068.6	10998.5	11728.0	10945.3
55°	177.3	187.4	220.4	225.4	205.2	504.1	1504.6	5154.8	10785.7	11578.6	10846.5
57.5°	167.2	172.2	195.0	184.9	177.3	380.0	1294.4	5020.5	9580.0	10284.2	10091.7
60°	154.5	159.6	182.4	144.4	149.5	266.0	972.7	4359.4	7692.9	8569.3	8916.3
62.5°	149.5	146.9	172.2	116.5	126.7	192.5	686.5	3543.7	5927.3	7054.5	7654.9
65°	131.7	129.2	124.1	98.8	108.9	149.5	410.4	2312.7	4177.0	5337.1	5666.4
67.5°	101.3	106.4	91.2	78.5	91.2	116.5	228.0	1036.0	2191.1	3201.8	3467.7
70°	70.9	76.0	73.5	68.4	81.1	96.3	131.7	354.6	906.8	1681.9	1854.2
72.5°	43.1	53.2	55.7	58.3	70.9	83.6	93.7	114.0	240.6	595.3	739.7
75°	25.3	35.5	43.1	50.7	58.3	70.9	78.5	81.1	83.6	111.5	179.8
77.5°	17.7	25.3	38.0	48.1	58.3	70.9	83.6	88.7	83.6	78.5	83.6
80°	15.2	25.3	35.5	45.6	60.8	73.5	83.6	83.6	81.1	70.9	76.0
82.5°	15.2	25.3	38.0	48.1	58.3	70.9	81.1	83.6	76.0	70.9	73.5
85°	17.7	27.9	40.5	50.7	63.3	58.3	53.2	43.1	40.5	32.9	35.5
87.5°	17.7	25.3	25.3	27.9	30.4	30.4	30.4	27.9	22.8	20.3	20.3
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: P528705

CATALOG NUMBER: GALN-SA3D-740-U-SLR-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6474.5	6474.5	6474.5	6474.5	6474.5	6474.5	6474.5	6474.5	6474.5	6474.5
2.5°	7074.8	7277.5	7269.9	7274.9	7244.5	7039.3	6940.6	6689.8	6760.7	6730.3
5°	7345.8	7546.0	7718.2	7697.9	7464.9	7186.3	6773.4	6383.3	6276.9	6119.9
7.5°	7074.8	7556.1	7715.7	7692.9	7348.4	6991.2	6332.6	5942.5	5757.6	5653.8
10°	6644.2	7201.5	7399.0	7439.6	7206.5	6664.5	6059.1	5433.4	5334.6	5154.8
12.5°	6398.5	6803.8	6925.4	7034.3	6953.2	6547.9	5851.3	5251.0	5114.2	4995.2
15°	6198.4	6439.0	6489.7	6613.8	6661.9	6444.1	5960.3	5448.6	5111.7	5099.0
17.5°	6383.3	6284.5	6099.6	6137.6	6289.6	6446.6	6241.4	5838.7	5511.9	5471.4
20°	6689.8	6254.1	5836.1	5929.9	6056.5	6537.8	6667.0	6383.3	6195.8	6092.0
22.5°	7041.9	6307.3	5752.6	5798.2	6038.8	6743.0	7356.0	7198.9	6849.4	6699.9
25°	7692.9	6454.2	5818.4	5848.8	6178.1	7029.2	7979.1	8095.6	7887.9	7857.5
27.5°	8328.7	6834.2	5962.8	5894.4	6249.0	7307.9	8356.5	8982.2	8617.4	8546.5
30°	8652.9	7143.2	6178.1	6061.6	6542.9	7477.6	8584.5	9559.7	9240.6	9207.6
32.5°	9149.4	7424.4	6345.3	6195.8	6707.5	7687.8	9010.1	10190.5	9881.4	9716.8
35°	9357.1	7730.9	6712.6	6537.8	7178.7	7981.6	9227.9	10752.8	10656.5	10497.0
37.5°	9757.3	8060.2	7145.7	7135.6	7748.6	8364.1	9620.5	11517.8	11500.1	11223.9
40°	9790.2	8419.9	7829.7	8148.8	8630.1	9030.3	9965.0	11730.6	12019.3	11831.9
42.5°	9840.9	9050.6	9012.6	9276.0	9688.9	9602.8	9977.7	11781.2	12222.0	12110.5
45°	9863.7	9681.3	10215.8	10702.1	10874.4	10352.6	9858.6	11685.0	12328.4	12049.7
47.5°	9681.3	10223.4	11188.5	12128.2	12178.9	10813.6	9808.0	11586.2	12391.7	12206.8
50°	9706.7	10562.8	12029.5	12870.4	12685.5	11221.4	9729.4	11525.4	12358.8	12234.6
52°	9645.9	10570.4	12148.5	12855.2	12726.0	10996.0	9595.2	11292.3	12328.4	12417.0
52.5°	9714.3	10524.8	12024.4	12865.4	12698.2	11107.4	9577.5	11421.5	12346.1	12166.2
55°	9478.7	9982.8	11297.4	11654.6	11629.2	10081.5	9032.9	10993.4	11882.5	11885.1
57.5°	8566.8	8652.9	8860.6	8853.0	8736.5	7925.9	7725.8	10109.4	10593.2	10329.8
60°	7548.5	6335.2	5775.4	5547.4	5418.2	5286.5	6834.2	9248.2	9293.8	9182.3
62.5°	6522.6	4392.3	3647.6	3584.3	3614.7	4095.9	6606.2	8906.2	8632.6	8392.0
65°	5263.7	3201.8	2649.6	2566.0	2862.3	3381.6	5347.3	6829.1	6408.6	6208.5
67.5°	3305.6	2335.5	1790.9	1633.8	1991.0	2327.9	3513.3	4291.0	3819.8	3543.7
70°	1960.6	1304.5	810.6	727.0	818.2	1241.2	1968.2	2140.4	1770.6	1628.8
72.5°	772.6	478.7	225.4	192.5	200.1	435.7	724.5	706.7	534.5	476.2
75°	207.7	144.4	78.5	63.3	53.2	81.1	116.5	76.0	27.9	35.5
77.5°	96.3	86.1	68.4	53.2	40.5	30.4	15.2	5.1	5.1	2.5
80°	83.6	73.5	63.3	53.2	40.5	25.3	12.7	2.5	2.5	2.5
82.5°	78.5	68.4	58.3	48.1	38.0	25.3	12.7	2.5	0.0	0.0
85°	32.9	43.1	48.1	45.6	40.5	25.3	12.7	2.5	0.0	0.0
87.5°	17.7	15.2	12.7	10.1	7.6	5.1	5.1	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

(END OF REPORT)