

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: P531799

Luminaire Tested: **GALN-SA7A-760-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531799  
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-SA7A-760-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5700K, 615mA 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: 17609 lumens  
Efficiency: N/A  
Efficacy: 81.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G2

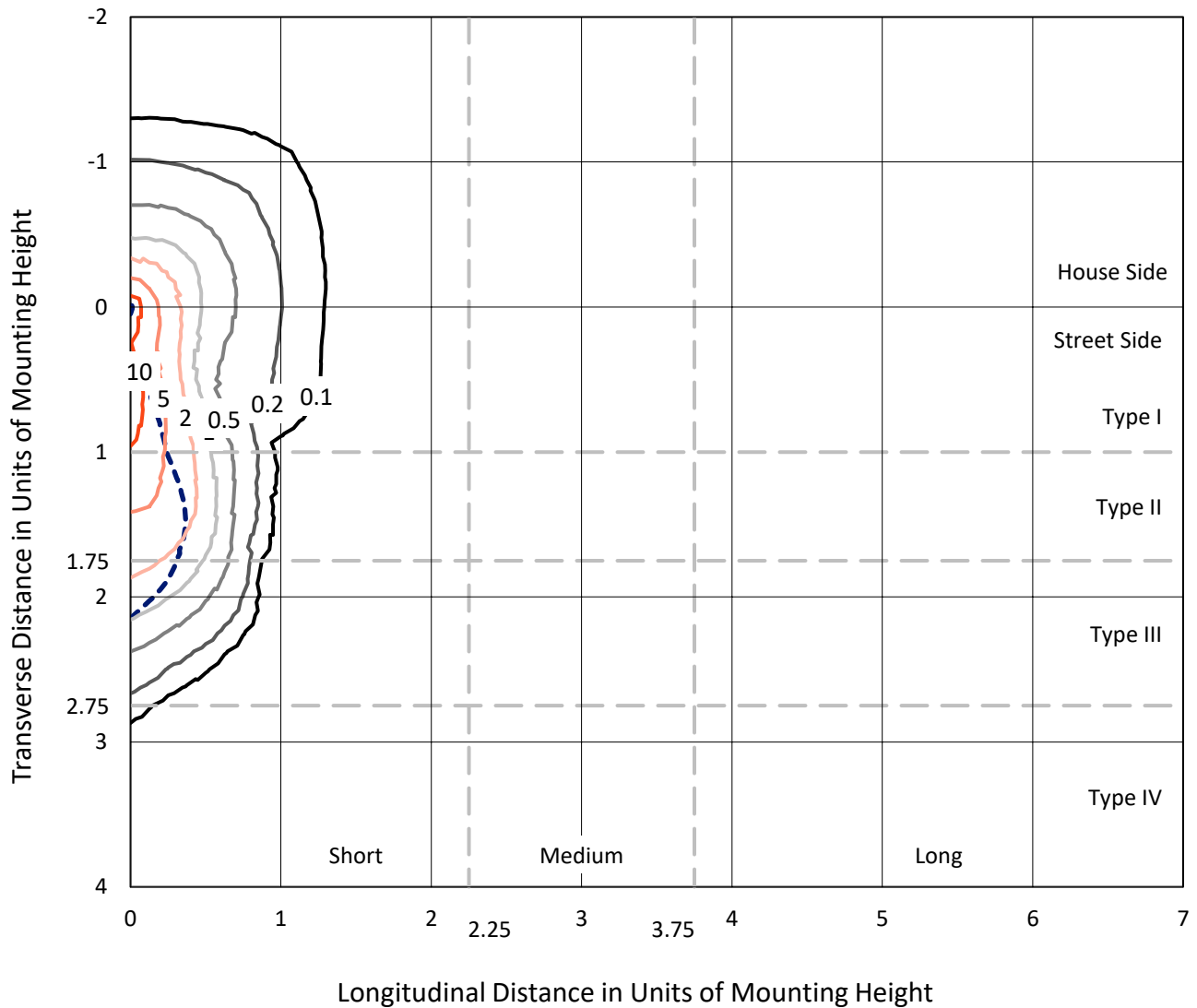
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

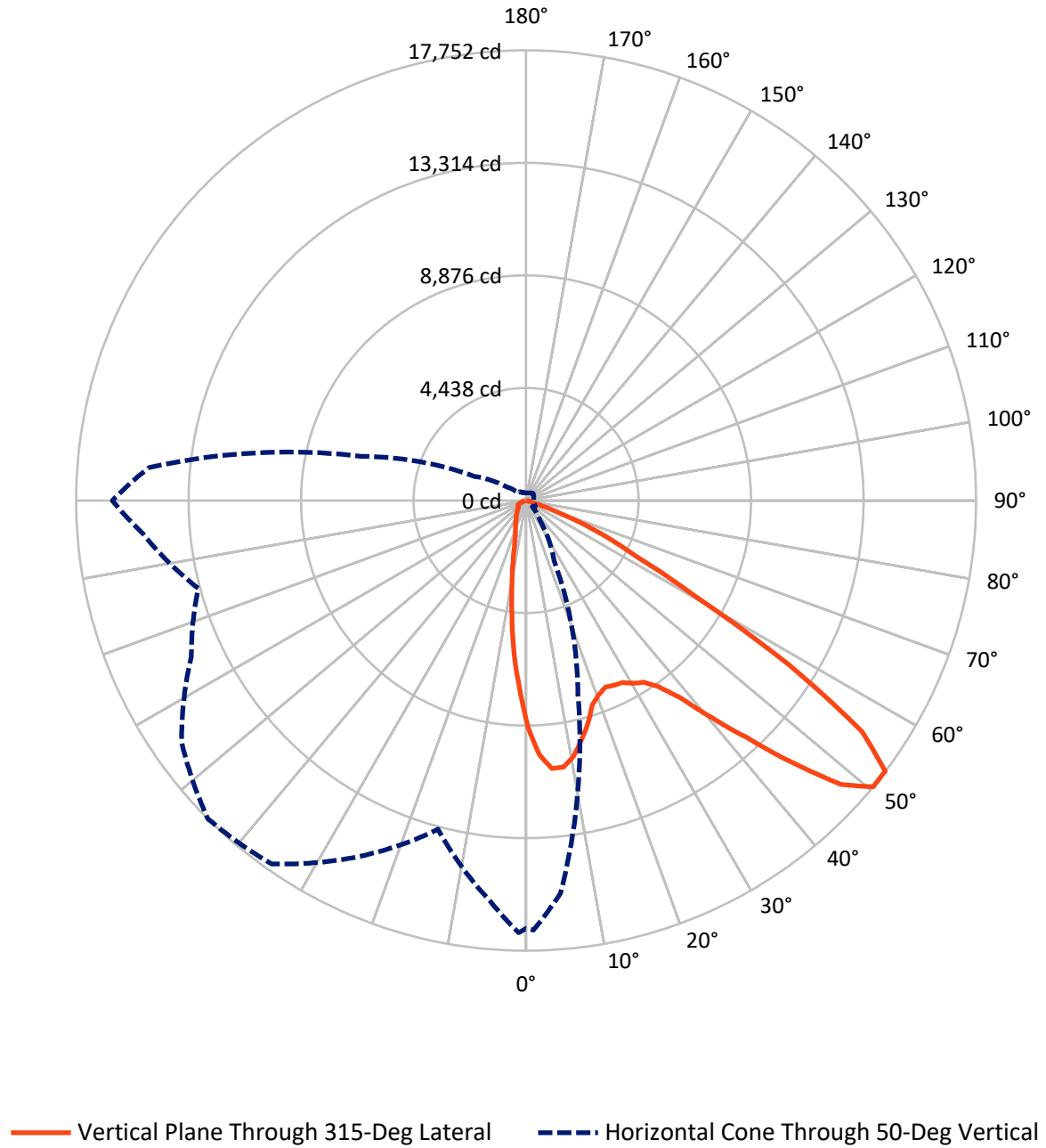
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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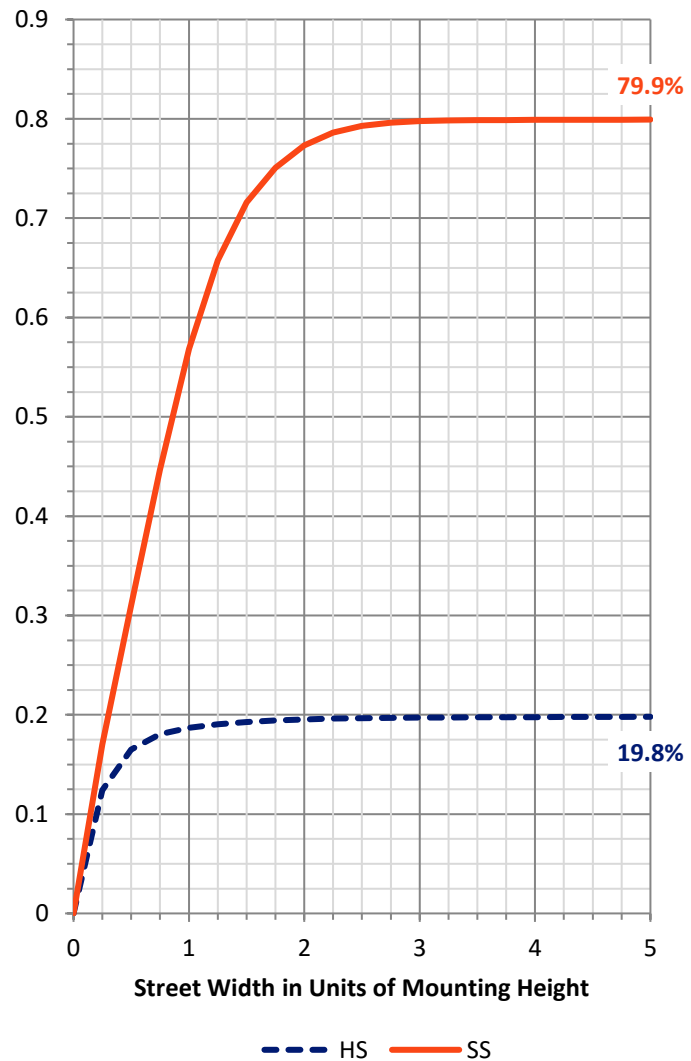
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3527.1	0.0	3527.1
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	14081.9	0.0	14081.9
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	17609.0	0.0	17609.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	650.9	3.7
10°-20°	1293.6	7.3
20°-30°	1943.4	11.0
30°-40°	2917.0	16.6
40°-50°	4099.7	23.3
50°-60°	4422.3	25.1
60°-70°	2053.2	11.7
70°-80°	193.2	1.1
80°-90°	35.6	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°	17609.0	100.0
0°-180°	17609.0	100.0



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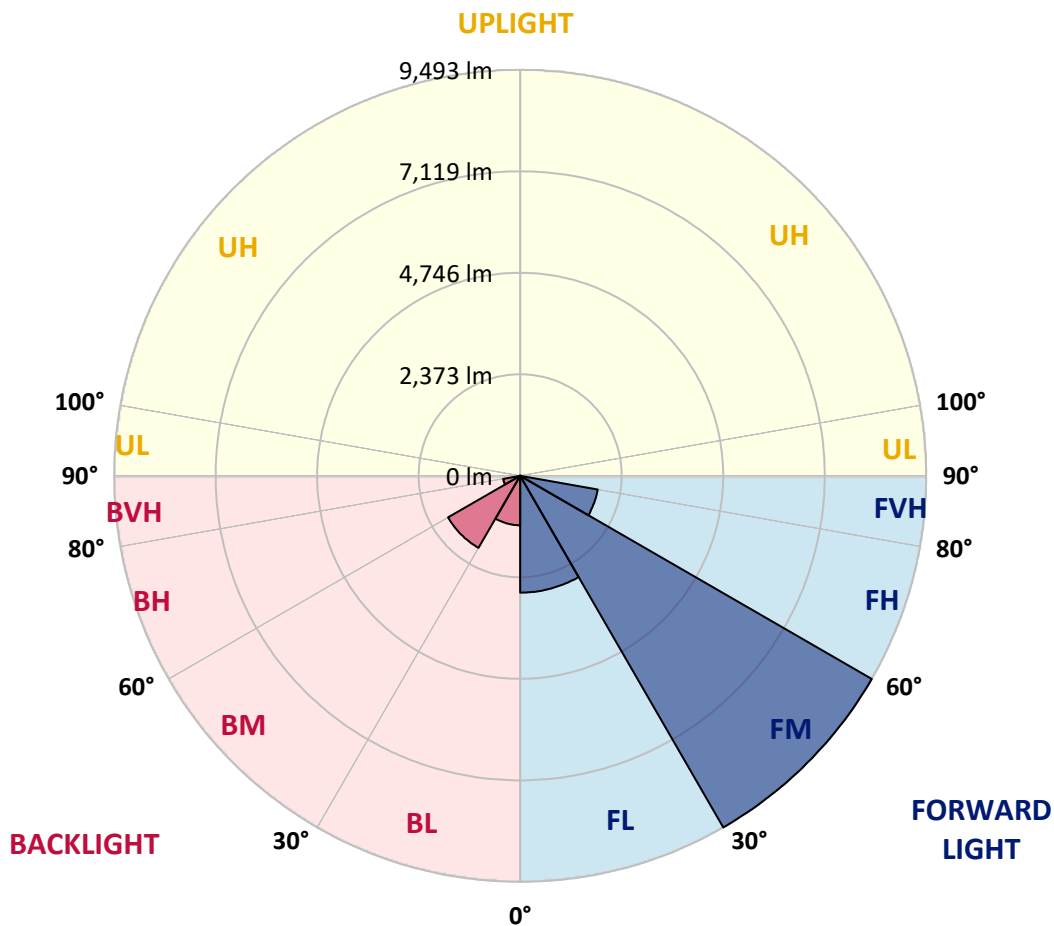
CATALOG NUMBER: GALN-SA7A-760-U-SLR-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2731.9	15.5			
FM (30°-60°)	9492.6	53.9			
FH (60°-80°)	1841.4	10.5			G2/5000
FVH (80°-90°)	16.0	0.1			G1/100
BL (0°-30°)	1156.1	6.6	B3/2500		
BM (30°-60°)	1946.4	11.1	B2/2500		
BH (60°-80°)	405.0	2.3	B1/500		G1/500
BVH (80°-90°)	19.6	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-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8930.0	8930.0	8930.0	8930.0	8930.0	8930.0	8930.0	8930.0	8930.0	8930.0	8930.0
2.5°	9282.8	9139.6	8957.9	8807.7	8584.1	8133.4	8011.1	7864.4	7742.1	7577.9	7347.3
5°	8440.9	8395.4	8311.6	7745.6	7336.8	6791.8	6344.6	6156.0	5907.9	5705.3	5558.5
7.5°	7798.0	7616.3	7350.8	6781.3	6128.0	5544.6	5048.4	4758.5	4430.1	4318.3	4119.1
10°	7109.7	7151.7	6760.4	5960.3	5170.7	4699.1	4391.6	4112.1	3815.2	3619.5	3336.5
12.5°	6889.6	6753.4	6452.9	5464.2	4789.9	4349.7	3975.9	3630.0	3315.6	3001.1	2728.6
15°	7032.9	6823.3	6404.0	5359.4	4496.4	3947.9	3479.8	3011.6	2721.6	2319.8	2036.8
17.5°	7546.5	7378.8	6816.3	5471.2	4346.2	3563.6	2868.4	2386.2	1942.5	1579.2	1435.9
20°	8402.4	8164.9	7459.1	5614.4	4122.6	3098.9	2326.8	1732.9	1313.6	1159.9	1079.6
22.5°	9240.9	9111.7	8220.8	5890.4	3923.5	2686.7	1746.9	1166.9	981.7	953.8	901.4
25°	10837.6	10449.8	9384.2	6390.0	3769.7	2298.9	1317.1	939.8	831.5	810.5	817.5
27.5°	11787.9	11462.9	10460.2	6721.9	3598.5	2001.9	1114.5	863.0	789.6	744.2	726.7
30°	12699.7	12322.4	10994.8	6917.6	3231.7	1687.5	988.7	828.0	810.5	744.2	723.2
32.5°	13402.0	13031.6	11766.9	7211.1	3081.5	1484.8	814.0	646.3	600.9	593.9	656.8
35°	14478.0	14083.2	12427.2	7371.8	2966.2	1380.0	705.7	576.5	524.1	503.1	506.6
37.5°	15480.7	15211.7	13038.6	7434.7	2843.9	1348.6	632.4	517.1	471.7	457.7	454.2
40°	16319.2	15718.3	13618.6	7501.0	2791.5	1289.2	586.9	471.7	440.2	419.2	419.2
42.5°	16703.5	16092.1	14268.4	7462.6	2777.5	1194.9	586.9	433.2	408.8	387.8	384.3
45°	16619.7	16371.6	14558.4	7445.1	2777.5	1100.5	534.5	422.7	387.8	359.9	352.9
47.5°	16836.3	16511.4	14921.7	7518.5	2721.6	1034.1	450.7	443.7	366.8	331.9	324.9
50°	16874.7	16937.6	15554.1	7899.3	2599.3	950.3	352.9	436.7	352.9	300.5	293.5
52°	17126.3	16735.0	15746.3	8102.0	2470.1	887.4	297.0	373.8	338.9	279.5	272.5
52.5°	16780.4	17035.4	15791.7	8175.3	2484.0	845.5	286.5	366.8	331.9	279.5	262.0
55°	16392.6	16637.2	15606.5	8332.6	2277.9	663.8	223.6	265.5	300.5	244.6	234.1
57.5°	14247.4	14495.5	13562.7	7630.3	1855.2	468.2	185.2	199.1	265.5	227.1	216.6
60°	12664.8	12486.6	11382.6	6365.6	1317.1	262.0	146.7	153.7	290.0	209.6	206.1
62.5°	11574.7	11193.9	9513.4	4915.7	803.6	174.7	115.3	118.8	223.6	195.6	195.6
65°	8563.1	8136.9	6320.2	2973.2	394.8	122.3	87.3	94.3	139.7	167.7	167.7
67.5°	4887.7	4723.5	3053.5	1341.6	164.2	76.9	66.4	73.4	108.3	136.3	129.3
70°	2246.5	2015.9	1173.9	283.0	76.9	52.4	52.4	59.4	87.3	101.3	94.3
72.5°	656.8	621.9	286.5	45.4	31.4	31.4	34.9	45.4	66.4	76.9	69.9
75°	48.9	31.4	21.0	14.0	14.0	21.0	27.9	45.4	66.4	73.4	59.4
77.5°	3.5	7.0	3.5	3.5	10.5	21.0	31.4	55.9	87.3	90.8	66.4
80°	3.5	3.5	0.0	3.5	10.5	21.0	34.9	62.9	97.8	104.8	55.9
82.5°	0.0	0.0	0.0	3.5	14.0	27.9	41.9	66.4	90.8	111.8	59.4
85°	0.0	0.0	0.0	3.5	21.0	38.4	48.9	17.5	10.5	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°	8930.0	8930.0	8930.0	8930.0	8930.0	8930.0	8930.0	8930.0	8930.0	8930.0	8930.0
2.5°	7511.5	7420.7	7385.8	7417.2	7406.7	7396.2	7588.4	7546.5	7539.5	7602.4	7588.4
5°	5638.9	5478.2	5918.4	5740.2	5925.4	6037.2	6058.1	6068.6	6197.9	6061.6	6239.8
7.5°	4017.8	4059.7	4056.2	4175.0	4388.1	4576.8	4688.6	4601.2	4594.3	4576.8	4499.9
10°	3210.7	3137.4	3123.4	3095.4	3161.8	3322.5	3458.8	3350.5	3273.6	3378.4	3347.0
12.5°	2623.8	2522.5	2466.6	2354.8	2358.3	2466.6	2466.6	2466.6	2543.4	2602.8	2648.2
15°	2012.4	1928.5	1928.5	1816.7	1792.3	1795.8	1851.7	1858.7	1980.9	2015.9	2033.4
17.5°	1408.0	1362.6	1415.0	1460.4	1432.4	1439.4	1460.4	1467.4	1484.8	1470.9	1505.8
20°	1083.1	1076.1	1090.0	1170.4	1229.8	1264.7	1240.3	1205.3	1184.4	1135.5	1135.5
22.5°	918.9	932.8	957.3	1023.7	1100.5	1121.5	1093.5	1013.2	950.3	943.3	946.8
25°	817.5	831.5	869.9	911.9	953.8	988.7	960.8	901.4	866.4	835.0	835.0
27.5°	754.6	761.6	782.6	814.0	849.0	876.9	866.4	835.0	796.6	782.6	751.2
30°	705.7	716.2	740.7	747.7	779.1	793.1	775.6	768.6	744.2	726.7	716.2
32.5°	681.3	677.8	695.3	702.2	705.7	716.2	695.3	705.7	702.2	674.3	663.8
35°	513.6	541.5	586.9	625.4	635.9	649.8	646.3	632.4	593.9	562.5	524.1
37.5°	461.2	478.6	503.1	534.5	576.5	593.9	586.9	552.0	506.6	485.6	478.6
40°	426.2	436.7	457.7	478.6	520.6	552.0	527.6	496.1	461.2	443.7	433.2
42.5°	394.8	398.3	408.8	429.7	461.2	510.1	468.2	426.2	412.3	401.8	394.8
45°	359.9	359.9	373.8	384.3	419.2	464.7	422.7	384.3	377.3	370.3	366.8
47.5°	331.9	335.4	342.4	356.4	384.3	415.8	387.8	356.4	338.9	335.4	328.4
50°	297.0	300.5	314.4	328.4	363.3	380.8	363.3	328.4	310.9	300.5	300.5
52°	269.0	279.5	293.5	321.4	345.9	373.8	352.9	314.4	293.5	283.0	276.0
52.5°	265.5	272.5	286.5	317.9	345.9	370.3	349.4	310.9	286.5	279.5	272.5
55°	237.6	248.1	272.5	310.9	342.4	370.3	342.4	307.4	272.5	255.0	248.1
57.5°	227.1	234.1	265.5	314.4	338.9	370.3	342.4	307.4	272.5	241.1	234.1
60°	216.6	230.6	265.5	304.0	335.4	373.8	345.9	304.0	265.5	227.1	227.1
62.5°	206.1	216.6	262.0	297.0	321.4	359.9	331.9	297.0	255.0	216.6	213.1
65°	178.2	195.6	230.6	248.1	276.0	310.9	283.0	258.5	223.6	192.2	188.7
67.5°	136.3	143.2	171.2	192.2	209.6	241.1	227.1	195.6	171.2	146.7	146.7
70°	94.3	101.3	122.3	132.8	150.2	167.7	157.2	132.8	115.3	101.3	97.8
72.5°	66.4	69.9	76.9	83.8	90.8	97.8	94.3	76.9	66.4	62.9	59.4
75°	52.4	59.4	62.9	59.4	55.9	52.4	52.4	45.4	38.4	34.9	34.9
77.5°	52.4	55.9	52.4	45.4	38.4	34.9	31.4	27.9	21.0	17.5	21.0
80°	45.4	45.4	45.4	38.4	34.9	31.4	27.9	24.5	21.0	17.5	17.5
82.5°	48.9	48.9	45.4	38.4	38.4	31.4	31.4	27.9	24.5	17.5	17.5
85°	0.0	0.0	0.0	7.0	17.5	31.4	31.4	27.9	24.5	21.0	21.0
87.5°	0.0	0.0	0.0	0.0	3.5	7.0	14.0	17.5	21.0	21.0	21.0
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°	8930.0	8930.0	8930.0	8930.0	8930.0	8930.0	8930.0	8930.0	8930.0	8930.0	8930.0
2.5°	7714.2	7846.9	8098.5	8350.0	8503.7	8685.4	9013.8	9188.5	9415.6	9527.4	9747.5
5°	6215.4	6529.8	6641.6	6928.1	7235.5	7543.0	8032.1	8570.1	9017.3	9324.8	9723.1
7.5°	4534.9	4608.2	5041.5	5233.6	5736.7	6295.7	6963.0	7640.8	8206.8	8709.9	9013.8
10°	3399.4	3668.4	3940.9	4307.8	4713.0	5289.5	5928.9	6676.5	7410.2	7913.3	8297.6
12.5°	2732.1	2945.2	3308.6	3703.4	4203.0	4583.8	5226.6	5967.3	6917.6	7410.2	7916.8
15°	2068.3	2340.8	2753.1	3161.8	3689.4	4091.2	4741.0	5673.8	6896.6	7574.4	8011.1
17.5°	1533.7	1718.9	2089.3	2546.9	3085.0	3651.0	4527.9	5642.4	7130.7	7937.8	8388.5
20°	1173.9	1236.8	1470.9	1879.6	2463.1	3203.8	4182.0	5778.6	7822.5	8821.7	9279.4
22.5°	950.3	978.2	1069.1	1352.1	1918.1	2812.5	4017.8	5873.0	8601.6	9880.3	10491.7
25°	828.0	821.0	880.4	1002.7	1498.8	2445.6	3808.2	6229.3	9555.4	11124.0	11672.6
27.5°	754.6	754.6	782.6	869.9	1243.8	2208.0	3675.4	6484.4	10516.1	12217.6	12514.6
30°	716.2	723.2	803.6	831.5	1034.1	1925.0	3455.3	6742.9	11435.0	12916.3	13325.1
32.5°	663.8	635.9	618.4	688.3	869.9	1670.0	3235.2	6851.2	12179.2	13772.3	14121.7
35°	510.1	496.1	517.1	569.5	747.7	1453.4	2990.6	6973.5	13035.1	14764.5	14834.4
37.5°	461.2	457.7	471.7	517.1	628.9	1264.7	2815.9	6942.0	13688.4	15585.5	15396.9
40°	426.2	426.2	436.7	475.1	562.5	1132.0	2634.3	6914.1	14320.8	16507.9	15955.9
42.5°	398.3	398.3	415.8	440.2	534.5	1044.6	2498.0	6875.7	14851.9	17073.9	16284.3
45°	359.9	370.3	398.3	422.7	541.5	985.2	2396.7	6728.9	15033.5	17066.9	16127.1
47.5°	331.9	345.9	373.8	408.8	489.1	967.8	2326.8	6599.7	14970.6	16647.6	15634.5
50°	300.5	317.9	356.4	415.8	415.8	932.8	2253.5	6715.0	14925.2	16322.7	15162.8
52°	279.5	293.5	342.4	405.3	363.3	859.5	2208.0	6938.6	15110.4	16280.8	14953.2
52.5°	276.0	286.5	331.9	398.3	345.9	845.5	2176.6	6991.0	15169.8	16176.0	15096.4
55°	244.6	258.5	304.0	310.9	283.0	695.3	2075.3	7109.7	14876.3	15969.9	14960.2
57.5°	230.6	237.6	269.0	255.0	244.6	524.1	1785.3	6924.6	13213.3	14184.6	13919.0
60°	213.1	220.1	251.5	199.1	206.1	366.8	1341.6	6012.7	10610.5	11819.3	12297.9
62.5°	206.1	202.6	237.6	160.7	174.7	265.5	946.8	4887.7	8175.3	9730.0	10558.1
65°	181.7	178.2	171.2	136.3	150.2	206.1	566.0	3189.8	5761.2	7361.3	7815.5
67.5°	139.7	146.7	125.8	108.3	125.8	160.7	314.4	1428.9	3022.1	4416.1	4782.9
70°	97.8	104.8	101.3	94.3	111.8	132.8	181.7	489.1	1250.8	2319.8	2557.4
72.5°	59.4	73.4	76.9	80.4	97.8	115.3	129.3	157.2	331.9	821.0	1020.2
75°	34.9	48.9	59.4	69.9	80.4	97.8	108.3	111.8	115.3	153.7	248.1
77.5°	24.5	34.9	52.4	66.4	80.4	97.8	115.3	122.3	115.3	108.3	115.3
80°	21.0	34.9	48.9	62.9	83.8	101.3	115.3	115.3	111.8	97.8	104.8
82.5°	21.0	34.9	52.4	66.4	80.4	97.8	111.8	115.3	104.8	97.8	101.3
85°	24.5	38.4	55.9	69.9	87.3	80.4	73.4	59.4	55.9	45.4	48.9
87.5°	24.5	34.9	34.9	38.4	41.9	41.9	41.9	38.4	31.4	27.9	27.9
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: P531799

CATALOG NUMBER: GALN-SA7A-760-U-SLR-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8930.0	8930.0	8930.0	8930.0	8930.0	8930.0	8930.0	8930.0	8930.0	8930.0
2.5°	9758.0	10037.5	10027.0	10034.0	9992.1	9709.1	9572.8	9227.0	9324.8	9282.8
5°	10131.8	10407.8	10645.4	10617.5	10296.0	9911.7	9342.2	8804.2	8657.5	8440.9
7.5°	9758.0	10421.8	10641.9	10610.5	10135.3	9642.7	8734.3	8196.3	7941.3	7798.0
10°	9164.1	9932.7	10205.2	10261.1	9939.7	9192.0	8357.0	7494.1	7357.8	7109.7
12.5°	8825.2	9384.2	9551.9	9702.1	9590.3	9031.3	8070.5	7242.5	7053.8	6889.6
15°	8549.2	8881.1	8950.9	9122.1	9188.5	8888.1	8220.8	7515.0	7050.4	7032.9
17.5°	8804.2	8668.0	8412.9	8465.3	8674.9	8891.6	8608.6	8053.1	7602.4	7546.5
20°	9227.0	8626.0	8049.6	8178.8	8353.5	9017.3	9195.5	8804.2	8545.7	8402.4
22.5°	9712.6	8699.4	7934.3	7997.2	8329.1	9300.3	10145.8	9929.2	9447.1	9240.9
25°	10610.5	8902.0	8025.1	8067.0	8521.2	9695.1	11005.3	11166.0	10879.5	10837.6
27.5°	11487.4	9426.1	8224.2	8129.9	8619.0	10079.4	11525.8	12388.8	11885.7	11787.9
30°	11934.6	9852.3	8521.2	8360.5	9024.3	10313.5	11840.3	13185.3	12745.1	12699.7
32.5°	12619.4	10240.1	8751.8	8545.7	9251.4	10603.5	12427.2	14055.3	13629.1	13402.0
35°	12905.9	10662.9	9258.4	9017.3	9901.2	11008.8	12727.7	14830.9	14698.1	14478.0
37.5°	13457.9	11117.1	9855.8	9841.8	10687.3	11536.3	13269.2	15886.0	15861.5	15480.7
40°	13503.3	11613.2	10799.1	11239.3	11903.1	12455.2	13744.3	16179.5	16577.8	16319.2
42.5°	13573.2	12483.1	12430.7	12794.1	13363.5	13244.7	13761.8	16249.4	16857.3	16703.5
45°	13604.6	13353.0	14090.2	14761.0	14998.6	14278.9	13597.6	16116.6	17004.0	16619.7
47.5°	13353.0	14100.7	15431.8	16728.0	16797.9	14914.7	13527.7	15980.3	17091.3	16836.3
50°	13388.0	14568.9	16591.7	17751.7	17496.6	15477.2	13419.4	15896.5	17045.9	16874.7
52°	13304.1	14579.3	16755.9	17730.7	17552.5	15166.3	13234.3	15575.1	17004.0	17126.3
52.5°	13398.5	14516.5	16584.8	17744.7	17514.1	15320.0	13209.8	15753.2	17028.5	16780.4
55°	13073.6	13768.8	15582.1	16074.7	16039.7	13905.1	12458.7	15162.8	16389.1	16392.6
57.5°	11815.8	11934.6	12221.1	12210.6	12049.9	10931.9	10655.9	13943.5	14610.8	14247.4
60°	10411.3	8737.8	7965.7	7651.3	7473.1	7291.4	9426.1	12755.6	12818.5	12664.8
62.5°	8996.4	6058.1	5031.0	4943.6	4985.6	5649.4	9111.7	12284.0	11906.6	11574.7
65°	7260.0	4416.1	3654.4	3539.2	3947.9	4664.1	7375.3	9419.1	8839.1	8563.1
67.5°	4559.3	3221.2	2470.1	2253.5	2746.1	3210.7	4845.8	5918.4	5268.6	4887.7
70°	2704.1	1799.3	1118.0	1002.7	1128.5	1711.9	2714.6	2952.2	2442.1	2246.5
72.5°	1065.6	660.3	310.9	265.5	276.0	600.9	999.2	974.8	737.2	656.8
75°	286.5	199.1	108.3	87.3	73.4	111.8	160.7	104.8	38.4	48.9
77.5°	132.8	118.8	94.3	73.4	55.9	41.9	21.0	7.0	7.0	3.5
80°	115.3	101.3	87.3	73.4	55.9	34.9	17.5	3.5	3.5	3.5
82.5°	108.3	94.3	80.4	66.4	52.4	34.9	17.5	3.5	0.0	0.0
85°	45.4	59.4	66.4	62.9	55.9	34.9	17.5	3.5	0.0	0.0
87.5°	24.5	21.0	17.5	14.0	10.5	7.0	7.0	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

(END OF REPORT)