

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: P455888

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455888
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-SA7A-760-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 615mA 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: 22875 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

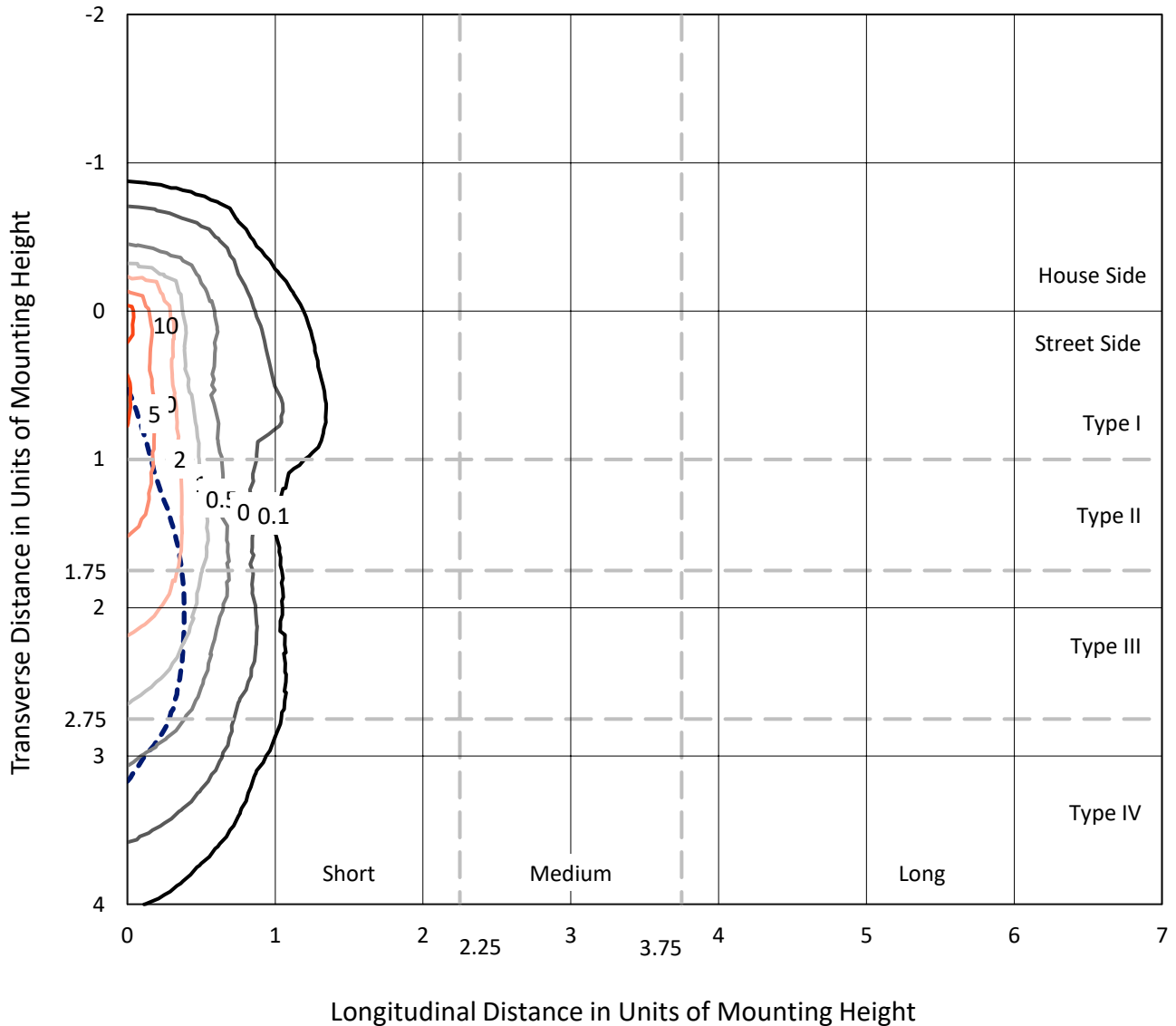
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

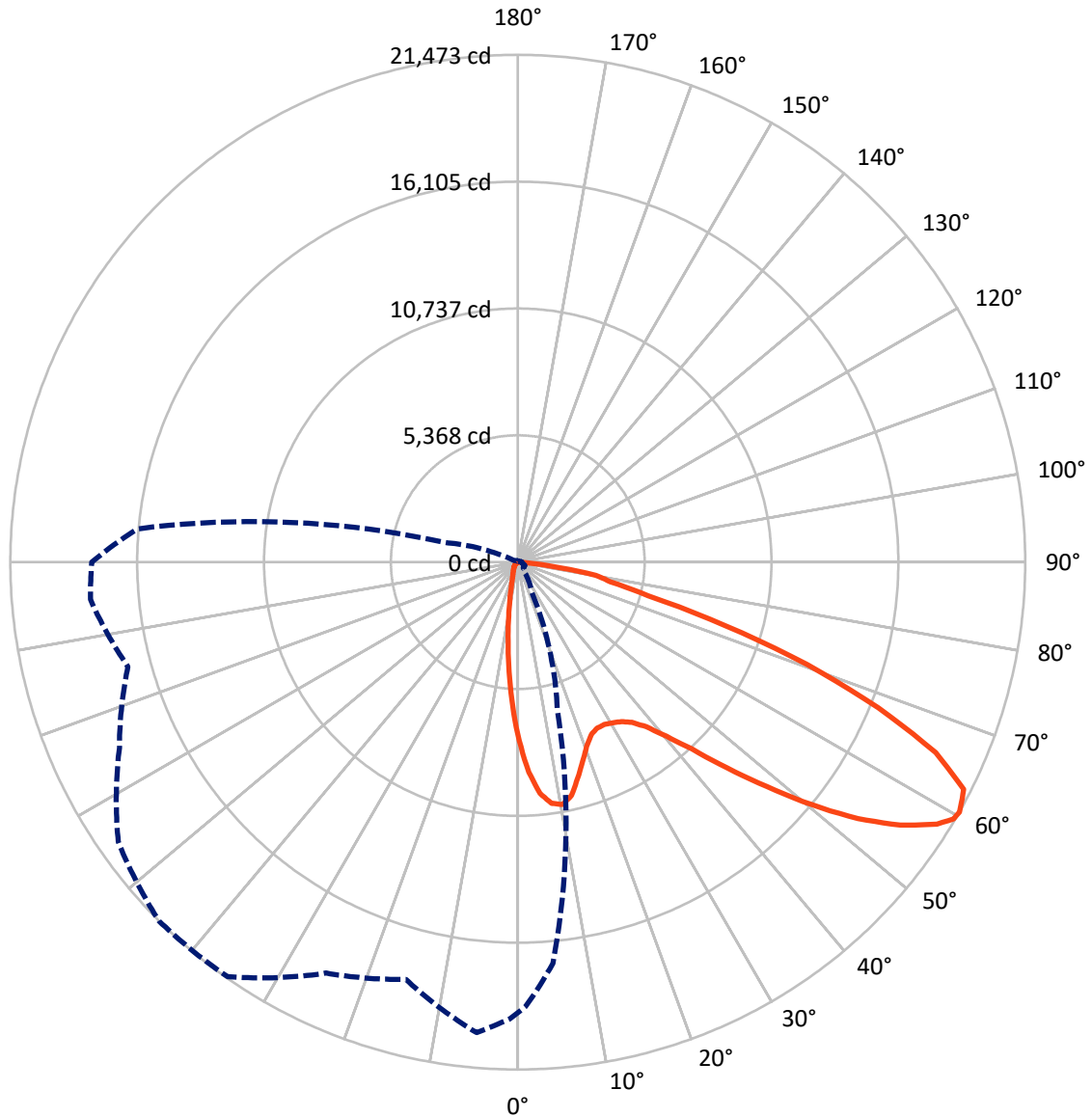
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 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
House Side	Lumens	2821.4	0.0	2821.4
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	20053.6	0.0	20053.6
	% Fixture	87.7	0.0	87.7
Total	Lumens	22875.0	0.0	22875.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	562.3	2.5
10°-20°	1116.8	4.9
20°-30°	1637.5	7.2
30°-40°	2435.3	10.6
40°-50°	3544.1	15.5
50°-60°	5110.8	22.3
60°-70°	5621.3	24.6
70°-80°	2517.9	11.0
80°-90°	329.0	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°	22875.0	100.0
0°-180°	22875.0	100.0

Coefficient of Utilization



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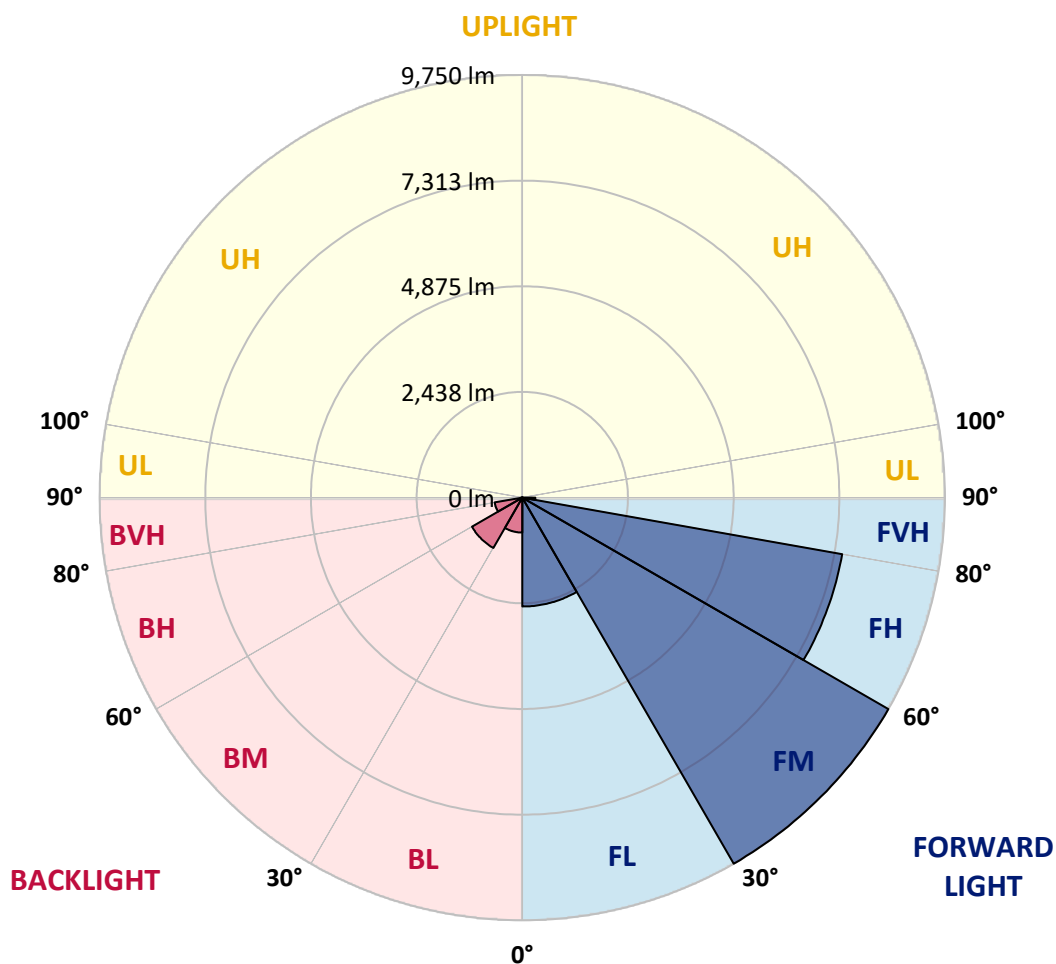
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2510.5	11.0			
FM	(30°-60°)	9750.0	42.6			
FH	(60°-80°)	7492.2	32.8			G3/7500
FVH	(80°-90°)	300.9	1.3			G3/500
BL	(0°-30°)	806.2	3.5	B2/1000		
BM	(30°-60°)	1340.1	5.9	B2/2500		
BH	(60°-80°)	647.0	2.8	B2/1000		G2/1000
BVH	(80°-90°)	28.1	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7560.5	7560.5	7560.5	7560.5	7560.5	7560.5	7560.5	7560.5	7560.5	7560.5	7560.5
2.5°	8311.7	8275.2	8191.7	7937.8	7717.0	7428.4	7136.2	6906.7	6765.9	6506.8	6388.5
5°	8052.6	8070.0	7828.3	7306.6	6725.9	6329.4	5896.4	5552.1	5173.1	4933.1	4681.0
7.5°	7376.2	7341.4	7078.9	6352.0	5646.0	5072.2	4524.5	4079.3	3799.4	3575.1	3387.3
10°	6797.2	6771.1	6435.5	5500.0	4741.8	4312.3	3942.0	3552.5	3251.6	2923.0	2660.4
12.5°	6433.7	6374.6	5988.6	5011.4	4394.1	3994.1	3590.7	3185.6	2770.0	2437.9	2119.7
15°	6312.0	6226.8	5797.3	4842.7	4171.5	3663.8	3157.7	2691.7	2213.6	1846.7	1606.7
17.5°	6532.9	6392.0	5934.7	4813.1	3905.5	3232.5	2610.0	2003.2	1505.8	1225.9	1078.1
20°	7038.9	6877.1	6282.5	4783.6	3609.9	2749.1	1984.0	1415.4	1041.6	888.6	806.8
22.5°	7790.0	7567.5	6797.2	4830.5	3336.9	2277.9	1432.8	999.8	827.7	732.1	674.7
25°	8692.5	8506.4	7449.2	4997.5	3121.2	1907.5	1107.6	817.3	697.3	638.2	594.7
27.5°	9681.9	9384.6	8292.6	5197.4	2924.7	1620.6	972.0	730.3	620.8	566.9	544.3
30°	10386.1	10154.9	8998.5	5336.5	2679.6	1405.0	888.6	719.9	622.5	558.2	516.4
32.5°	11081.7	10786.1	9589.8	5400.9	2500.5	1255.4	768.6	627.7	546.0	513.0	471.2
35°	11825.9	11516.4	10179.2	5366.1	2366.6	1156.3	697.3	559.9	467.8	412.1	370.4
37.5°	12578.8	12251.9	10765.2	5240.9	2283.1	1116.3	641.6	532.1	441.7	384.3	339.1
40°	13472.6	13036.1	11314.7	5138.3	2196.2	1095.5	605.1	514.7	422.5	361.7	316.5
42.5°	14202.9	13787.3	11834.6	5084.4	2137.0	1046.8	605.1	500.8	410.4	342.6	295.6
45°	14895.0	14463.7	12396.3	5127.9	2112.7	985.9	612.1	499.0	401.7	328.6	281.7
47.5°	15474.0	15100.2	12973.6	5291.3	2081.4	919.9	575.6	523.4	396.5	316.5	267.8
50°	16157.4	15795.7	13736.9	5621.7	2025.8	853.8	530.3	563.4	394.7	306.0	255.6
52.5°	17120.7	16729.5	14790.6	5997.3	1937.1	752.9	488.6	558.2	387.8	288.6	243.4
55°	18297.9	17981.4	16011.3	6447.7	1815.4	639.9	422.5	495.6	366.9	259.1	222.6
57.5°	19052.6	18783.0	16926.0	6642.4	1629.3	523.4	372.1	415.6	335.6	231.3	198.2
59°	19141.2	18897.8	17117.2	6578.1	1507.6	478.2	347.8	356.5	326.9	215.6	184.3
60°	19066.5	18814.3	17040.7	6452.9	1394.6	446.9	326.9	316.5	328.6	206.9	173.9
62.5°	18586.6	18155.3	16298.2	5818.2	1218.9	410.4	290.4	259.1	290.4	186.1	154.8
65°	17659.7	17012.9	14828.9	4924.4	1149.4	389.5	246.9	217.4	220.8	163.5	133.9
67.5°	16040.9	15225.4	12872.7	4001.1	1119.8	391.2	208.7	194.8	170.4	139.1	118.2
70°	13481.3	12667.5	10328.8	3291.6	1105.9	391.2	177.4	166.9	142.6	116.5	102.6
72.5°	9553.2	8676.9	6967.6	2585.7	996.4	389.5	151.3	151.3	116.5	97.4	83.5
75°	5397.4	5404.3	4380.2	1829.3	827.7	321.7	121.7	120.0	85.2	74.8	62.6
77.5°	3145.6	3089.9	2952.6	786.0	384.3	146.1	85.2	73.0	59.1	53.9	45.2
80°	1617.1	1330.2	1295.4	285.2	137.4	92.2	59.1	41.7	38.3	34.8	31.3
82.5°	478.2	479.9	427.8	114.8	76.5	60.9	29.6	22.6	20.9	19.1	19.1
85°	33.0	20.9	24.3	34.8	46.9	24.3	1.7	5.2	5.2	7.0	8.7
87.5°	3.5	1.7	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°	7560.5	7560.5	7560.5	7560.5	7560.5	7560.5	7560.5	7560.5	7560.5	7560.5	7560.5
2.5°	6258.1	6334.6	6192.0	6195.5	6077.3	6115.5	5976.4	6021.6	5939.9	6002.5	6186.8
5°	4708.8	4726.2	4611.4	4574.9	4592.3	4663.6	4691.4	4564.5	4618.4	4512.3	4505.4
7.5°	3317.7	3338.6	3272.5	3263.8	3389.0	3359.5	3413.4	3282.9	3159.5	3213.4	3114.3
10°	2577.0	2490.0	2354.4	2316.1	2291.8	2307.5	2307.5	2189.2	2171.8	2124.9	2196.2
12.5°	2034.5	1928.4	1799.7	1625.8	1582.4	1578.9	1514.5	1410.2	1377.2	1337.2	1396.3
15°	1478.0	1434.6	1326.7	1229.4	1130.3	1111.1	1006.8	921.6	808.6	792.9	787.7
17.5°	1039.8	975.5	973.8	918.1	860.7	822.5	725.1	627.7	584.3	579.0	579.0
20°	779.0	756.4	719.9	712.9	695.5	652.1	565.1	513.0	492.1	493.8	500.8
22.5°	655.5	639.9	606.9	591.2	584.3	546.0	481.7	446.9	436.5	436.5	438.2
25°	586.0	572.1	535.6	511.2	502.5	474.7	424.3	398.2	389.5	389.5	389.5
27.5°	533.8	516.4	478.2	457.3	441.7	410.4	379.1	353.0	344.3	344.3	346.0
30°	497.3	478.2	443.4	415.6	391.2	363.4	337.3	314.7	304.3	302.6	304.3
32.5°	448.6	431.2	396.5	379.1	351.2	318.2	297.3	276.5	266.0	267.8	266.0
35°	349.5	344.3	319.9	325.2	309.5	281.7	262.6	240.0	227.8	226.1	229.5
37.5°	318.2	297.3	269.5	271.3	266.0	255.6	224.3	200.0	191.3	191.3	193.0
40°	293.9	273.0	241.7	226.1	227.8	227.8	194.8	168.7	160.0	158.2	161.7
42.5°	273.0	252.1	217.4	191.3	184.3	193.0	165.2	139.1	130.4	126.9	130.4
45°	259.1	236.5	196.5	166.9	146.1	156.5	135.6	114.8	104.3	104.3	102.6
47.5°	245.2	224.3	180.8	144.3	121.7	116.5	111.3	92.2	81.7	80.0	81.7
50°	233.0	212.1	163.5	125.2	102.6	90.4	90.4	73.0	66.1	62.6	64.3
52.5°	220.8	198.2	147.8	111.3	88.7	73.0	64.3	59.1	53.9	52.2	53.9
55°	203.4	180.8	132.2	95.6	76.5	60.9	50.4	48.7	45.2	41.7	45.2
57.5°	182.6	161.7	116.5	81.7	60.9	46.9	41.7	40.0	36.5	34.8	34.8
59°	170.4	151.3	107.8	71.3	53.9	41.7	38.3	36.5	33.0	29.6	31.3
60°	163.5	147.8	102.6	66.1	48.7	38.3	34.8	33.0	29.6	27.8	29.6
62.5°	144.3	132.2	90.4	53.9	38.3	27.8	24.3	26.1	24.3	22.6	24.3
65°	126.9	116.5	76.5	41.7	29.6	19.1	17.4	22.6	20.9	19.1	20.9
67.5°	113.0	100.9	64.3	31.3	20.9	10.4	12.2	19.1	19.1	17.4	19.1
70°	97.4	86.9	52.2	22.6	10.4	5.2	8.7	13.9	17.4	15.6	17.4
72.5°	80.0	67.8	40.0	15.6	5.2	0.0	5.2	12.2	17.4	15.6	17.4
75°	62.6	50.4	29.6	8.7	0.0	0.0	1.7	10.4	17.4	15.6	17.4
77.5°	45.2	36.5	17.4	1.7	0.0	0.0	1.7	10.4	17.4	15.6	17.4
80°	29.6	26.1	7.0	0.0	0.0	0.0	1.7	10.4	17.4	17.4	19.1
82.5°	19.1	13.9	0.0	0.0	0.0	0.0	3.5	13.9	19.1	20.9	20.9
85°	8.7	0.0	0.0	0.0	0.0	0.0	7.0	17.4	22.6	22.6	22.6
87.5°	0.0	0.0	0.0	0.0	0.0	3.5	12.2	20.9	26.1	26.1	26.1
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°	7560.5	7560.5	7560.5	7560.5	7560.5	7560.5	7560.5	7560.5	7560.5	7560.5	7560.5
2.5°	6218.1	6327.7	6482.4	6720.7	6913.7	7218.0	7451.0	7769.2	8090.9	8188.2	8339.5
5°	4576.6	4717.5	5068.7	5388.7	5590.4	6233.8	6640.7	7282.3	7857.9	8134.3	8435.2
7.5°	3178.6	3345.5	3613.3	4060.2	4484.5	5007.9	5665.2	6399.0	7242.3	7637.0	8061.3
10°	2230.9	2439.6	2816.9	3183.8	3717.7	4215.0	4863.6	5673.9	6604.1	7070.2	7602.2
12.5°	1408.5	1594.5	2093.6	2505.7	3171.7	3749.0	4347.1	5080.9	6159.0	6637.2	7195.4
15°	805.1	961.6	1194.6	1723.2	2462.2	3225.6	3971.5	4823.6	5931.2	6520.7	7124.1
17.5°	599.9	641.6	746.0	1045.0	1718.0	2610.0	3625.5	4745.3	6086.0	6778.0	7466.6
20°	504.3	532.1	580.8	699.0	1095.5	2010.1	3288.2	4759.2	6586.8	7456.2	8110.0
22.5°	452.1	469.5	509.5	586.0	747.7	1464.1	2893.4	4841.0	7193.6	8289.1	9043.8
25°	396.5	419.1	453.8	519.9	622.5	1015.5	2503.9	5023.5	8043.9	9346.3	10055.8
27.5°	353.0	373.9	408.6	469.5	546.0	775.5	2050.1	5180.0	8941.2	10410.5	10991.3
30°	309.5	330.4	365.2	413.8	483.4	627.7	1561.5	5272.2	9812.3	11208.6	11655.5
32.5°	273.0	290.4	323.4	366.9	424.3	532.1	1231.1	5176.6	10478.3	11933.7	12232.8
35°	236.5	257.3	285.2	325.2	375.6	453.8	1024.2	4846.2	11050.4	12679.7	12787.5
37.5°	198.2	222.6	252.1	288.6	328.6	417.3	822.5	4481.0	11662.5	13610.0	13432.6
40°	166.9	189.5	217.4	257.3	293.9	382.5	632.9	4091.5	12323.2	14482.9	14136.8
42.5°	135.6	160.0	193.0	229.5	290.4	333.9	490.4	3688.1	12916.2	15242.7	14773.3
45°	107.8	128.7	163.5	210.4	288.6	286.9	379.1	3289.9	13363.1	15785.3	15248.0
47.5°	85.2	102.6	137.4	205.2	266.0	243.4	304.3	3043.0	13832.5	16273.9	15611.4
50°	67.8	85.2	118.2	213.9	233.0	208.7	255.6	3083.0	14286.4	16522.5	15760.9
52.5°	57.4	74.8	102.6	168.7	179.1	182.6	224.3	3267.3	14872.4	16788.6	16058.3
55°	50.4	66.1	86.9	118.2	139.1	163.5	205.2	3401.2	15656.6	17358.9	16713.8
57.5°	40.0	57.4	78.2	100.9	114.8	142.6	189.5	3411.6	16366.0	18091.0	17585.0
59°	36.5	52.2	73.0	95.6	102.6	128.7	179.1	3322.9	16392.1	18200.5	17984.9
60°	33.0	50.4	69.6	88.7	97.4	121.7	170.4	3220.3	16155.6	18026.6	18150.1
62.5°	27.8	43.5	60.9	71.3	83.5	100.9	147.8	2848.2	15009.7	17238.9	17844.1
65°	24.3	38.3	52.2	59.1	69.6	86.9	130.4	2279.6	13743.9	16171.3	16967.7
67.5°	22.6	34.8	45.2	50.4	60.9	80.0	116.5	1610.2	12104.1	14816.7	15651.4
70°	20.9	33.0	40.0	46.9	53.9	67.8	99.1	939.0	9323.7	12441.5	13323.1
72.5°	20.9	31.3	34.8	40.0	46.9	60.9	92.2	507.7	6374.6	9490.6	10629.6
75°	20.9	29.6	31.3	34.8	41.7	55.6	81.7	266.0	4121.1	6593.7	8137.8
77.5°	20.9	27.8	31.3	33.0	40.0	48.7	71.3	166.9	2745.6	4618.4	5500.0
80°	22.6	27.8	29.6	33.0	38.3	45.2	59.1	111.3	1613.7	2778.7	3347.3
82.5°	24.3	27.8	31.3	34.8	40.0	43.5	52.2	69.6	744.2	1838.0	2079.7
85°	26.1	29.6	33.0	36.5	41.7	43.5	48.7	50.4	121.7	829.4	1121.6
87.5°	27.8	31.3	34.8	38.3	45.2	45.2	45.2	45.2	41.7	88.7	226.1
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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CATALOG NUMBER: GALN-SA7A-760-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7560.5	7560.5	7560.5	7560.5	7560.5	7560.5	7560.5	7560.5	7560.5	7560.5
2.5°	8530.8	8727.3	8864.7	8899.4	8800.3	8755.1	8629.9	8435.2	8316.9	8311.7
5°	8989.8	9450.6	9770.6	9824.5	9633.2	9309.8	8925.5	8429.9	8139.6	8052.6
7.5°	8911.6	9718.4	10233.1	10307.9	9986.2	9368.9	8624.7	7826.6	7510.1	7376.2
10°	8589.9	9574.1	10309.6	10427.9	9998.4	9129.0	8183.0	7292.7	6899.8	6797.2
12.5°	8315.2	9309.8	9963.6	10127.1	9801.9	8934.2	7918.7	6950.2	6529.4	6433.7
15°	8195.2	8996.8	9396.7	9480.2	9426.3	8812.5	7890.9	6898.0	6416.4	6312.0
17.5°	8315.2	8730.8	8781.2	8866.4	8986.4	8800.3	8158.7	7181.4	6661.5	6532.9
20°	8629.9	8499.5	8290.8	8327.3	8602.1	8850.7	8635.1	7809.2	7176.2	7038.9
22.5°	9165.5	8442.1	7969.1	7937.8	8285.6	9019.4	9334.1	8659.5	7925.7	7790.0
25°	9822.8	8586.4	7850.9	7783.1	8162.2	9266.3	10094.0	9701.0	8899.4	8692.5
27.5°	10539.2	8885.5	7850.9	7784.8	8151.7	9485.4	10744.3	10622.6	9908.0	9681.9
30°	10932.1	9132.4	7963.9	7889.2	8280.4	9612.4	11092.1	11441.6	10666.1	10386.1
32.5°	11283.4	9475.0	8184.8	8043.9	8549.9	9800.2	11403.4	12137.2	11269.5	11081.7
35°	11606.8	9841.9	8489.1	8325.6	8904.6	10057.5	11747.7	12867.5	12109.3	11825.9
37.5°	11963.3	10267.9	8963.8	8824.7	9497.6	10558.3	12156.3	13827.3	12935.3	12578.8
40°	12351.0	10761.7	9744.5	9685.4	10440.0	11125.2	12672.7	14851.5	13877.8	13472.6
42.5°	12745.8	11330.3	10700.9	10798.3	11507.7	11919.8	13203.1	15639.2	14649.8	14202.9
45°	13104.0	12057.2	11944.2	12425.8	12752.7	12695.3	13596.1	16193.9	15322.7	14895.0
47.5°	13556.1	13116.1	13448.3	14190.7	14199.4	13538.7	13893.4	16647.7	15901.8	15474.0
50°	14062.1	14366.4	15390.6	16146.9	15943.5	14368.1	14241.2	17185.0	16499.9	16157.4
52.5°	14648.1	15766.1	17185.0	18024.9	17550.2	15272.3	14820.2	17765.8	17449.3	17120.7
55°	15329.7	16720.8	18974.3	19643.8	19165.6	16395.6	15700.1	18553.5	18522.2	18297.9
57.5°	16100.0	17729.3	20010.7	20916.6	20490.6	17713.7	16929.4	19296.0	19177.8	19052.6
59°	16708.6	18247.5	20468.0	21407.0	21149.6	18637.0	17755.4	19758.5	19329.0	19141.2
60°	17077.2	18598.7	20636.7	21473.0	21413.9	19186.5	18278.8	19984.6	19327.3	19066.5
62.5°	18171.0	19212.5	20572.3	21179.2	21410.4	20240.2	19814.2	20233.2	18969.1	18586.6
65°	18560.5	19009.1	19506.4	19431.6	19629.9	20186.3	20794.9	19960.2	18204.0	17659.7
67.5°	17802.3	16778.2	16953.8	16454.7	16357.4	17946.7	20396.7	18624.8	16706.9	16040.9
70°	15006.3	12853.6	12764.9	12994.4	12365.0	14529.8	18315.3	16053.1	14236.0	13481.3
72.5°	11812.0	9083.7	8336.0	9181.1	9162.0	11085.2	15214.9	11391.2	9617.6	9553.2
75°	9288.9	6324.2	5550.4	5687.8	5952.1	8024.8	12118.0	7233.6	5922.5	5397.4
77.5°	6235.5	4481.0	4180.2	4011.5	4296.7	5152.2	7666.6	3922.8	3321.2	3145.6
80°	3594.2	3255.1	3696.8	3356.0	3509.0	3246.4	3813.3	1799.7	1493.7	1617.1
82.5°	2338.8	1853.6	1975.3	1467.6	2006.6	2024.0	1224.1	532.1	450.4	478.2
85°	1462.4	869.4	488.6	347.8	692.1	1272.8	382.5	33.0	38.3	33.0
87.5°	379.1	144.3	60.9	90.4	111.3	99.1	88.7	5.2	1.7	3.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)