

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: P452176

Luminaire Tested: **GALN-SA3A-760-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452176  
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-SA3A-760-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 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: 9804 lumens  
Efficiency: N/A  
Efficacy: 105.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 93  
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



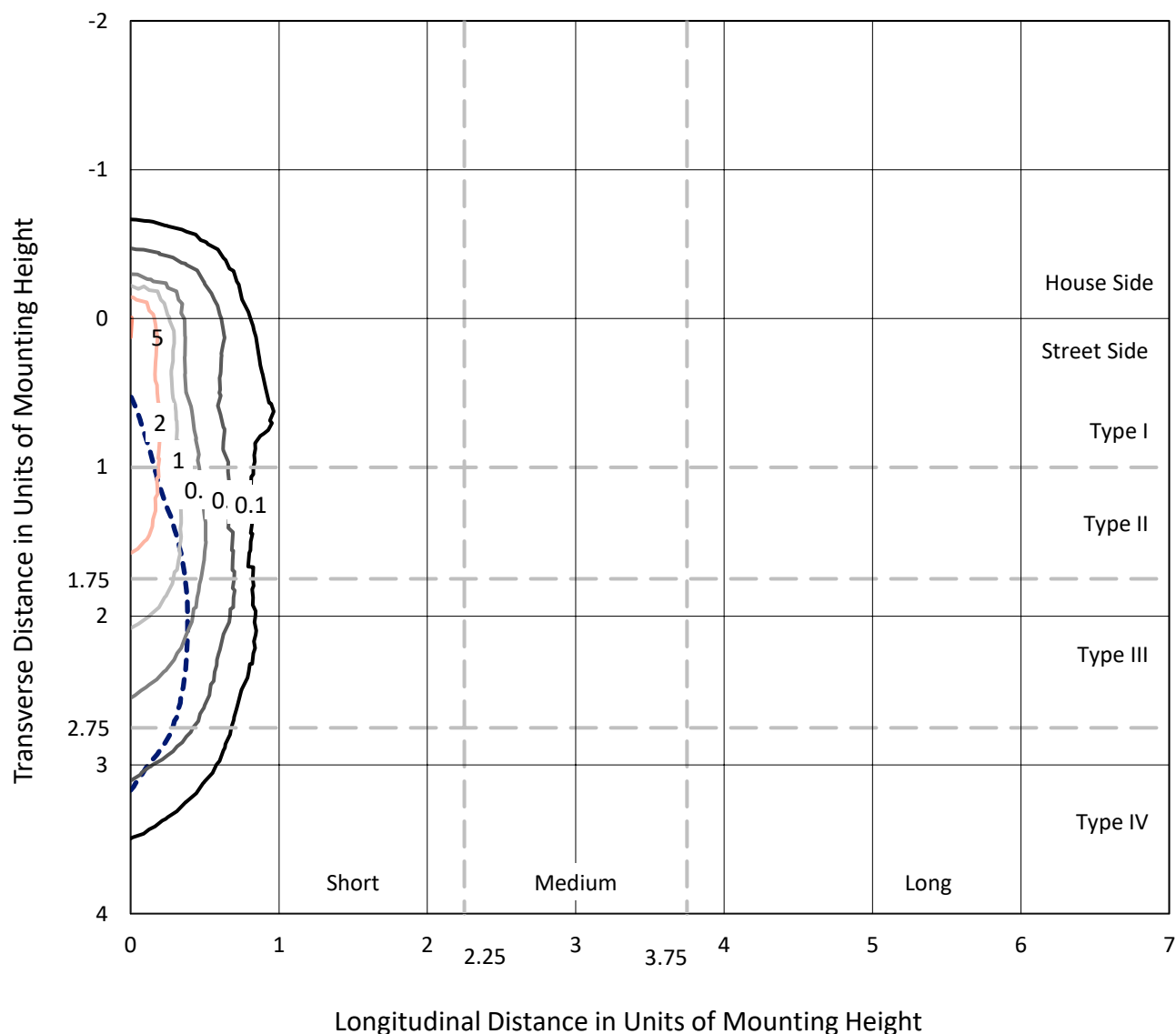
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

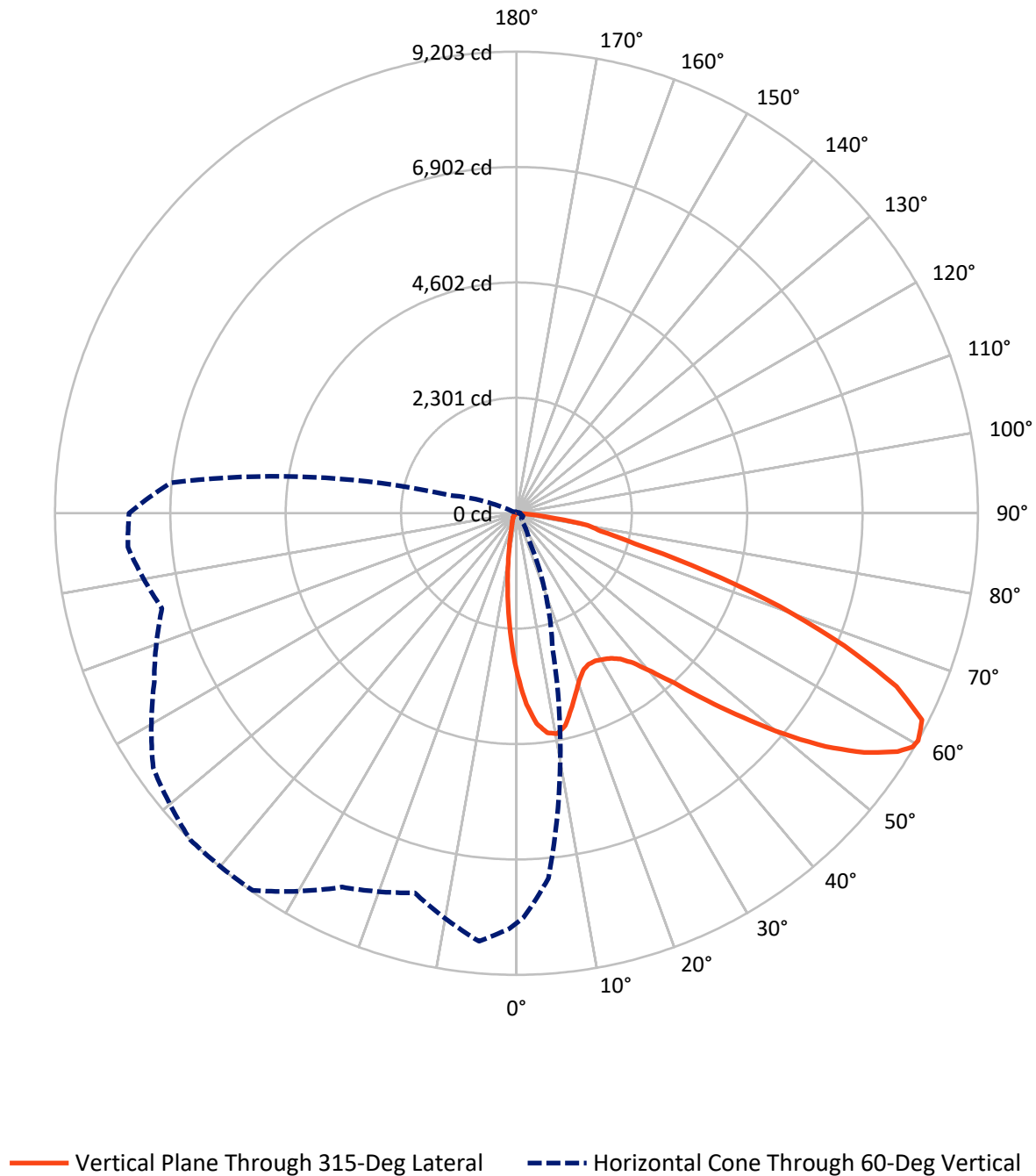


Based on 25 foot mounting height. Maximum calculated value = 5.2 fc

Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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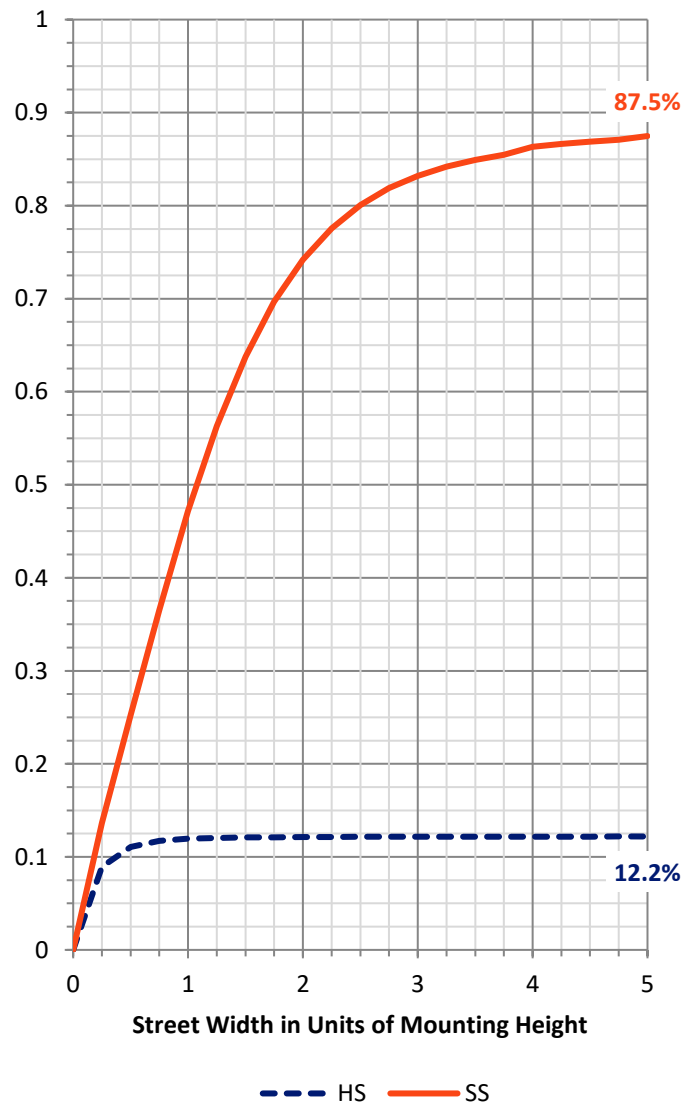
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1209.2	0.0	1209.2
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	8594.8	0.0	8594.8
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	9804.0	0.0	9804.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	241.0	2.5
10°-20°	478.6	4.9
20°-30°	701.8	7.2
30°-40°	1043.7	10.6
40°-50°	1518.9	15.5
50°-60°	2190.4	22.3
60°-70°	2409.3	24.6
70°-80°	1079.1	11.0
80°-90°	141.0	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°	9804.0	100.0
0°-180°	9804.0	100.0

**Coefficient of Utilization**



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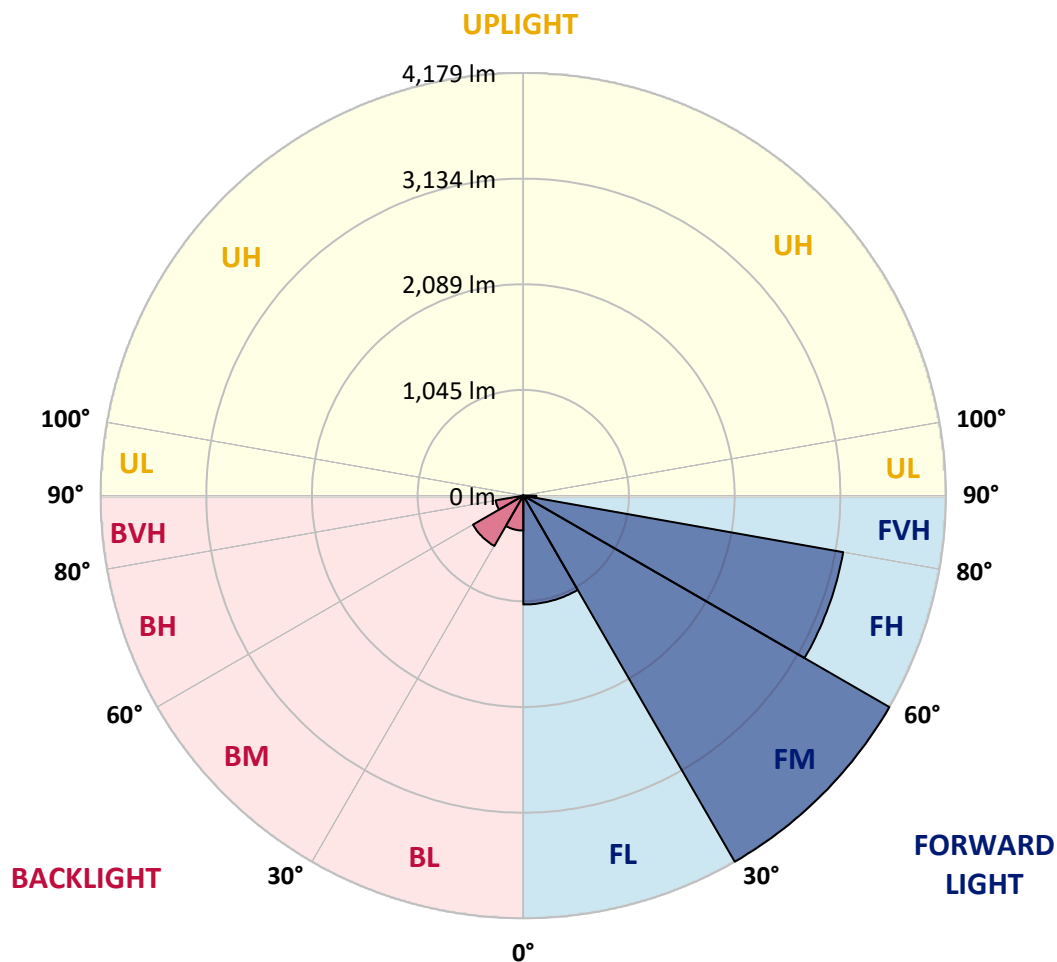
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1076.0	11.0			
FM	(30°-60°)	4178.8	42.6			
FH	(60°-80°)	3211.1	32.8			G2/5000
FVH	(80°-90°)	129.0	1.3			G2/225
BL	(0°-30°)	345.5	3.5	B1/500		
BM	(30°-60°)	574.4	5.9	B1/1000		
BH	(60°-80°)	277.3	2.8	B1/500		G1/500
BVH	(80°-90°)	12.1	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3240.4	3240.4	3240.4	3240.4	3240.4	3240.4	3240.4	3240.4	3240.4	3240.4	3240.4
2.5°	3562.3	3546.7	3510.9	3402.1	3307.4	3183.7	3058.5	2960.1	2899.8	2788.7	2738.1
5°	3451.3	3458.7	3355.1	3131.6	2882.6	2712.7	2527.2	2379.6	2217.1	2114.3	2006.2
7.5°	3161.4	3146.5	3033.9	2722.4	2419.8	2173.9	1939.1	1748.4	1628.4	1532.2	1451.8
10°	2913.2	2902.0	2758.2	2357.2	2032.3	1848.2	1689.5	1522.6	1393.6	1252.8	1140.2
12.5°	2757.4	2732.1	2566.7	2147.8	1883.3	1711.8	1538.9	1365.3	1187.2	1044.8	908.5
15°	2705.3	2668.8	2484.7	2075.5	1787.9	1570.2	1353.4	1153.7	948.7	791.5	688.6
17.5°	2799.9	2739.6	2543.6	2062.9	1673.8	1385.4	1118.6	858.5	645.4	525.4	462.1
20°	3016.8	2947.5	2692.6	2050.2	1547.1	1178.2	850.3	606.6	446.4	380.8	345.8
22.5°	3338.7	3243.3	2913.2	2070.3	1430.1	976.3	614.1	428.5	354.7	313.8	289.2
25°	3725.5	3645.8	3192.7	2141.9	1337.7	817.5	474.7	350.3	298.8	273.5	254.9
27.5°	4149.6	4022.1	3554.1	2227.6	1253.5	694.6	416.6	313.0	266.1	243.0	233.3
30°	4451.4	4352.3	3856.7	2287.2	1148.4	602.2	380.8	308.5	266.8	239.2	221.3
32.5°	4749.5	4622.8	4110.1	2314.8	1071.7	538.1	329.4	269.0	234.0	219.8	202.0
35°	5068.5	4935.8	4362.7	2299.9	1014.3	495.6	298.8	240.0	200.5	176.6	158.7
37.5°	5391.2	5251.1	4613.9	2246.2	978.5	478.5	275.0	228.0	189.3	164.7	145.3
40°	5774.2	5587.2	4849.4	2202.2	941.3	469.5	259.3	220.6	181.1	155.0	135.6
42.5°	6087.2	5909.1	5072.2	2179.1	915.9	448.6	259.3	214.6	175.9	146.8	126.7
45°	6383.8	6199.0	5312.9	2197.8	905.5	422.6	262.3	213.9	172.2	140.9	120.7
47.5°	6632.0	6471.8	5560.3	2267.8	892.1	394.2	246.7	224.3	169.9	135.6	114.8
50°	6924.9	6769.9	5887.5	2409.4	868.2	365.9	227.3	241.5	169.2	131.2	109.6
52.5°	7337.8	7170.1	6339.1	2570.4	830.2	322.7	209.4	239.2	166.2	123.7	104.3
55°	7842.3	7706.7	6862.3	2763.4	778.0	274.3	181.1	212.4	157.2	111.0	95.4
57.5°	8165.7	8050.2	7254.3	2846.9	698.3	224.3	159.5	178.1	143.8	99.1	85.0
59°	8203.8	8099.4	7336.3	2819.3	646.1	204.9	149.1	152.8	140.1	92.4	79.0
60°	8171.7	8063.6	7303.5	2765.6	597.7	191.5	140.1	135.6	140.9	88.7	74.5
62.5°	7966.0	7781.2	6985.3	2493.6	522.4	175.9	124.5	111.0	124.5	79.7	66.3
65°	7568.8	7291.6	6355.5	2110.6	492.6	166.9	105.8	93.2	94.6	70.1	57.4
67.5°	6875.0	6525.4	5517.1	1714.8	479.9	167.7	89.4	83.5	73.0	59.6	50.7
70°	5778.0	5429.2	4426.8	1410.8	474.0	167.7	76.0	71.5	61.1	49.9	44.0
72.5°	4094.4	3718.8	2986.2	1108.2	427.0	166.9	64.8	64.8	49.9	41.7	35.8
75°	2313.3	2316.2	1877.3	784.0	354.7	137.9	52.2	51.4	36.5	32.0	26.8
77.5°	1348.2	1324.3	1265.4	336.9	164.7	62.6	36.5	31.3	25.3	23.1	19.4
80°	693.1	570.1	555.2	122.2	58.9	39.5	25.3	17.9	16.4	14.9	13.4
82.5°	204.9	205.7	183.3	49.2	32.8	26.1	12.7	9.7	8.9	8.2	8.2
85°	14.2	8.9	10.4	14.9	20.1	10.4	0.7	2.2	2.2	3.0	3.7
87.5°	1.5	0.7	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°	3240.4	3240.4	3240.4	3240.4	3240.4	3240.4	3240.4	3240.4	3240.4	3240.4	3240.4
2.5°	2682.2	2715.0	2653.8	2655.3	2604.7	2621.1	2561.4	2580.8	2545.8	2572.6	2651.6
5°	2018.1	2025.6	1976.4	1960.8	1968.2	1998.8	2010.7	1956.3	1979.4	1933.9	1931.0
7.5°	1421.9	1430.9	1402.6	1398.8	1452.5	1439.8	1462.9	1407.0	1354.1	1377.2	1334.7
10°	1104.5	1067.2	1009.1	992.7	982.2	989.0	989.0	938.3	930.8	910.7	941.3
12.5°	871.9	826.5	771.3	696.8	678.2	676.7	649.1	604.4	590.2	573.1	598.4
15°	633.5	614.8	568.6	526.9	484.4	476.2	431.5	395.0	346.5	339.8	337.6
17.5°	445.7	418.1	417.3	393.5	368.9	352.5	310.8	269.0	250.4	248.2	248.2
20°	333.9	324.2	308.5	305.6	298.1	279.5	242.2	219.8	210.9	211.7	214.6
22.5°	281.0	274.3	260.1	253.4	250.4	234.0	206.4	191.5	187.1	187.1	187.8
25°	251.2	245.2	229.5	219.1	215.4	203.5	181.8	170.7	166.9	166.9	166.9
27.5°	228.8	221.3	204.9	196.0	189.3	175.9	162.5	151.3	147.6	147.6	148.3
30°	213.1	204.9	190.0	178.1	167.7	155.8	144.6	134.9	130.4	129.7	130.4
32.5°	192.3	184.8	169.9	162.5	150.5	136.4	127.4	118.5	114.0	114.8	114.0
35°	149.8	147.6	137.1	139.4	132.7	120.7	112.5	102.8	97.6	96.9	98.4
37.5°	136.4	127.4	115.5	116.3	114.0	109.6	96.1	85.7	82.0	82.0	82.7
40°	125.9	117.0	103.6	96.9	97.6	97.6	83.5	72.3	68.6	67.8	69.3
42.5°	117.0	108.1	93.2	82.0	79.0	82.7	70.8	59.6	55.9	54.4	55.9
45°	111.0	101.4	84.2	71.5	62.6	67.1	58.1	49.2	44.7	44.7	44.0
47.5°	105.1	96.1	77.5	61.9	52.2	49.9	47.7	39.5	35.0	34.3	35.0
50°	99.9	90.9	70.1	53.7	44.0	38.8	38.8	31.3	28.3	26.8	27.6
52.5°	94.6	85.0	63.3	47.7	38.0	31.3	27.6	25.3	23.1	22.4	23.1
55°	87.2	77.5	56.6	41.0	32.8	26.1	21.6	20.9	19.4	17.9	19.4
57.5°	78.3	69.3	49.9	35.0	26.1	20.1	17.9	17.1	15.7	14.9	14.9
59°	73.0	64.8	46.2	30.6	23.1	17.9	16.4	15.7	14.2	12.7	13.4
60°	70.1	63.3	44.0	28.3	20.9	16.4	14.9	14.2	12.7	11.9	12.7
62.5°	61.9	56.6	38.8	23.1	16.4	11.9	10.4	11.2	10.4	9.7	10.4
65°	54.4	49.9	32.8	17.9	12.7	8.2	7.5	9.7	8.9	8.2	8.9
67.5°	48.4	43.2	27.6	13.4	8.9	4.5	5.2	8.2	8.2	7.5	8.2
70°	41.7	37.3	22.4	9.7	4.5	2.2	3.7	6.0	7.5	6.7	7.5
72.5°	34.3	29.1	17.1	6.7	2.2	0.0	2.2	5.2	7.5	6.7	7.5
75°	26.8	21.6	12.7	3.7	0.0	0.0	0.7	4.5	7.5	6.7	7.5
77.5°	19.4	15.7	7.5	0.7	0.0	0.0	0.7	4.5	7.5	6.7	7.5
80°	12.7	11.2	3.0	0.0	0.0	0.0	0.7	4.5	7.5	7.5	8.2
82.5°	8.2	6.0	0.0	0.0	0.0	0.0	1.5	6.0	8.2	8.9	8.9
85°	3.7	0.0	0.0	0.0	0.0	0.0	3.0	7.5	9.7	9.7	9.7
87.5°	0.0	0.0	0.0	0.0	0.0	1.5	5.2	8.9	11.2	11.2	11.2
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°	3240.4	3240.4	3240.4	3240.4	3240.4	3240.4	3240.4	3240.4	3240.4	3240.4	3240.4
2.5°	2665.0	2712.0	2778.3	2880.4	2963.1	3093.5	3193.4	3329.8	3467.7	3509.4	3574.2
5°	1961.5	2021.9	2172.4	2309.5	2396.0	2671.7	2846.1	3121.1	3367.8	3486.3	3615.2
7.5°	1362.3	1433.9	1548.6	1740.2	1922.0	2146.3	2428.0	2742.5	3104.0	3273.2	3455.0
10°	956.2	1045.6	1207.3	1364.6	1593.4	1806.5	2084.5	2431.8	2830.5	3030.2	3258.2
12.5°	603.7	683.4	897.3	1073.9	1359.3	1606.8	1863.1	2177.6	2639.7	2844.6	3083.9
15°	345.1	412.1	512.0	738.5	1055.3	1382.4	1702.2	2067.3	2542.1	2794.7	3053.3
17.5°	257.1	275.0	319.7	447.9	736.3	1118.6	1553.9	2033.8	2608.4	2905.0	3200.1
20°	216.1	228.0	248.9	299.6	469.5	861.5	1409.3	2039.8	2823.0	3195.6	3475.9
22.5°	193.8	201.2	218.4	251.2	320.5	627.5	1240.1	2074.8	3083.1	3552.6	3876.1
25°	169.9	179.6	194.5	222.8	266.8	435.2	1073.2	2153.0	3447.5	4005.7	4309.8
27.5°	151.3	160.2	175.1	201.2	234.0	332.4	878.7	2220.1	3832.1	4461.8	4710.7
30°	132.7	141.6	156.5	177.4	207.2	269.0	669.2	2259.6	4205.5	4803.9	4995.4
32.5°	117.0	124.5	138.6	157.2	181.8	228.0	527.6	2218.6	4490.9	5114.7	5242.9
35°	101.4	110.3	122.2	139.4	161.0	194.5	439.0	2077.0	4736.1	5434.4	5480.6
37.5°	85.0	95.4	108.1	123.7	140.9	178.9	352.5	1920.5	4998.4	5833.1	5757.1
40°	71.5	81.2	93.2	110.3	125.9	164.0	271.3	1753.6	5281.6	6207.2	6058.9
42.5°	58.1	68.6	82.7	98.4	124.5	143.1	210.2	1580.7	5535.7	6532.9	6331.7
45°	46.2	55.1	70.1	90.2	123.7	123.0	162.5	1410.0	5727.3	6765.4	6535.1
47.5°	36.5	44.0	58.9	87.9	114.0	104.3	130.4	1304.2	5928.5	6974.8	6690.9
50°	29.1	36.5	50.7	91.7	99.9	89.4	109.6	1321.3	6123.0	7081.4	6755.0
52.5°	24.6	32.0	44.0	72.3	76.8	78.3	96.1	1400.3	6374.2	7195.4	6882.4
55°	21.6	28.3	37.3	50.7	59.6	70.1	87.9	1457.7	6710.3	7439.9	7163.4
57.5°	17.1	24.6	33.5	43.2	49.2	61.1	81.2	1462.2	7014.3	7753.6	7536.7
59°	15.7	22.4	31.3	41.0	44.0	55.1	76.8	1424.2	7025.5	7800.6	7708.2
60°	14.2	21.6	29.8	38.0	41.7	52.2	73.0	1380.2	6924.2	7726.0	7779.0
62.5°	11.9	18.6	26.1	30.6	35.8	43.2	63.3	1220.7	6433.0	7388.4	7647.8
65°	10.4	16.4	22.4	25.3	29.8	37.3	55.9	977.0	5890.5	6930.9	7272.2
67.5°	9.7	14.9	19.4	21.6	26.1	34.3	49.9	690.1	5187.7	6350.3	6708.0
70°	8.9	14.2	17.1	20.1	23.1	29.1	42.5	402.4	3996.0	5332.3	5710.1
72.5°	8.9	13.4	14.9	17.1	20.1	26.1	39.5	217.6	2732.1	4067.6	4555.7
75°	8.9	12.7	13.4	14.9	17.9	23.8	35.0	114.0	1766.3	2826.0	3487.8
77.5°	8.9	11.9	13.4	14.2	17.1	20.9	30.6	71.5	1176.8	1979.4	2357.2
80°	9.7	11.9	12.7	14.2	16.4	19.4	25.3	47.7	691.6	1190.9	1434.6
82.5°	10.4	11.9	13.4	14.9	17.1	18.6	22.4	29.8	319.0	787.7	891.3
85°	11.2	12.7	14.2	15.7	17.9	18.6	20.9	21.6	52.2	355.5	480.7
87.5°	11.9	13.4	14.9	16.4	19.4	19.4	19.4	19.4	17.9	38.0	96.9
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-SA3A-760-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3240.4	3240.4	3240.4	3240.4	3240.4	3240.4	3240.4	3240.4	3240.4	3240.4
2.5°	3656.2	3740.4	3799.3	3814.2	3771.7	3752.4	3698.7	3615.2	3564.5	3562.3
5°	3853.0	4050.5	4187.6	4210.7	4128.7	3990.1	3825.4	3613.0	3488.5	3451.3
7.5°	3819.4	4165.2	4385.8	4417.9	4280.0	4015.4	3696.5	3354.4	3218.7	3161.4
10°	3681.6	4103.4	4418.6	4469.3	4285.2	3912.6	3507.2	3125.6	2957.2	2913.2
12.5°	3563.8	3990.1	4270.3	4340.4	4201.0	3829.1	3393.9	2978.8	2798.4	2757.4
15°	3512.4	3855.9	4027.3	4063.1	4040.0	3776.9	3382.0	2956.4	2750.0	2705.3
17.5°	3563.8	3741.9	3763.5	3800.0	3851.5	3771.7	3496.7	3077.9	2855.1	2799.9
20°	3698.7	3642.8	3553.4	3569.0	3686.8	3793.3	3700.9	3346.9	3075.7	3016.8
22.5°	3928.2	3618.2	3415.5	3402.1	3551.1	3865.6	4000.5	3711.4	3396.9	3338.7
25°	4209.9	3680.1	3364.8	3335.8	3498.2	3971.5	4326.2	4157.8	3814.2	3725.5
27.5°	4517.0	3808.2	3364.8	3336.5	3493.7	4065.4	4604.9	4552.8	4246.5	4149.6
30°	4685.4	3914.1	3413.3	3381.2	3548.9	4119.8	4754.0	4903.8	4571.4	4451.4
32.5°	4835.9	4060.9	3507.9	3447.5	3664.4	4200.2	4887.4	5201.9	4830.0	4749.5
35°	4974.6	4218.1	3638.3	3568.3	3816.4	4310.5	5034.9	5514.9	5189.9	5068.5
37.5°	5127.3	4400.7	3841.8	3782.2	4070.6	4525.2	5210.1	5926.3	5543.9	5391.2
40°	5293.5	4612.4	4176.4	4151.1	4474.5	4768.1	5431.4	6365.2	5947.9	5774.2
42.5°	5462.7	4856.1	4586.3	4628.0	4932.1	5108.7	5658.7	6702.8	6278.8	6087.2
45°	5616.2	5167.6	5119.1	5325.6	5465.7	5441.1	5827.1	6940.5	6567.2	6383.8
47.5°	5810.0	5621.4	5763.8	6082.0	6085.7	5802.5	5954.6	7135.1	6815.3	6632.0
50°	6026.9	6157.3	6596.2	6920.4	6833.2	6158.0	6103.6	7365.3	7071.7	6924.9
52.5°	6278.0	6757.2	7365.3	7725.3	7521.8	6545.6	6351.8	7614.3	7478.6	7337.8
55°	6570.2	7166.4	8132.2	8419.1	8214.2	7027.0	6728.9	7951.9	7938.4	7842.3
57.5°	6900.3	7598.6	8576.4	8964.7	8782.1	7591.9	7255.8	8270.1	8219.4	8165.7
59°	7161.1	7820.7	8772.4	9174.8	9064.5	7987.6	7609.8	8468.3	8284.2	8203.8
60°	7319.1	7971.2	8844.7	9203.1	9177.8	8223.1	7834.1	8565.2	8283.5	8171.7
62.5°	7787.9	8234.3	8817.1	9077.2	9176.3	8674.8	8492.2	8671.8	8130.0	7966.0
65°	7954.8	8147.1	8360.3	8328.2	8413.2	8651.6	8912.5	8554.8	7802.1	7568.8
67.5°	7629.9	7191.0	7266.2	7052.3	7010.6	7691.8	8741.8	7982.4	7160.4	6875.0
70°	6431.5	5508.9	5470.9	5569.3	5299.5	6227.3	7849.8	6880.2	6101.4	5778.0
72.5°	5062.5	3893.2	3572.7	3934.9	3926.7	4751.0	6521.0	4882.2	4122.0	4094.4
75°	3981.1	2710.5	2378.8	2437.7	2551.0	3439.3	5193.7	3100.3	2538.3	2313.3
77.5°	2672.5	1920.5	1791.6	1719.3	1841.5	2208.2	3285.8	1681.3	1423.4	1348.2
80°	1540.4	1395.1	1584.4	1438.3	1503.9	1391.4	1634.3	771.3	640.2	693.1
82.5°	1002.4	794.4	846.6	629.0	860.0	867.5	524.7	228.0	193.0	204.9
85°	626.8	372.6	209.4	149.1	296.6	545.5	164.0	14.2	16.4	14.2
87.5°	162.5	61.9	26.1	38.8	47.7	42.5	38.0	2.2	0.7	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)