

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: P647340

Luminaire Tested: **GALN-SA3D-835-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647340  
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-SA3D-835-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 1200mA 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: 12986.1 lumens  
Efficiency: N/A  
Efficacy: 70.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

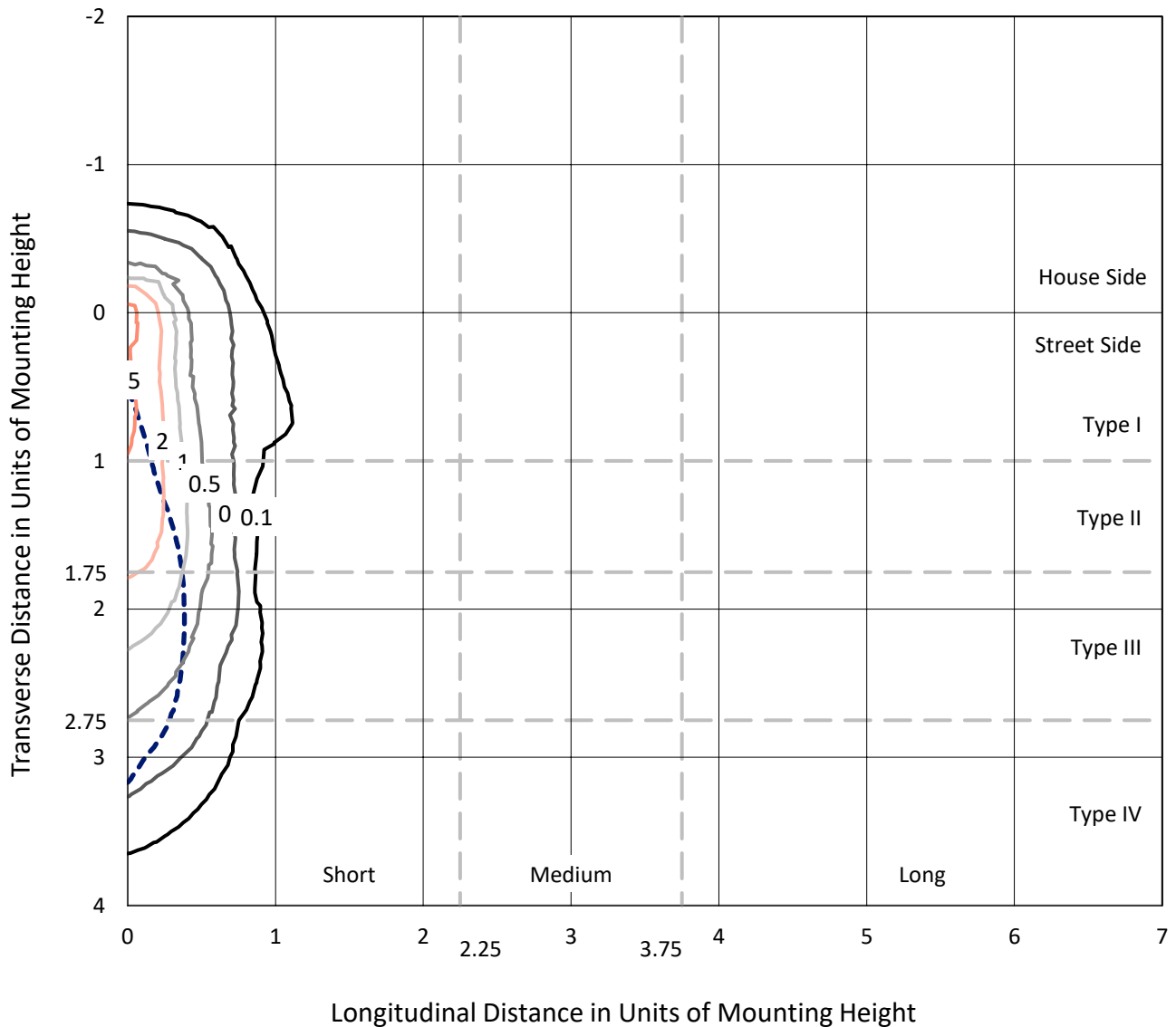
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

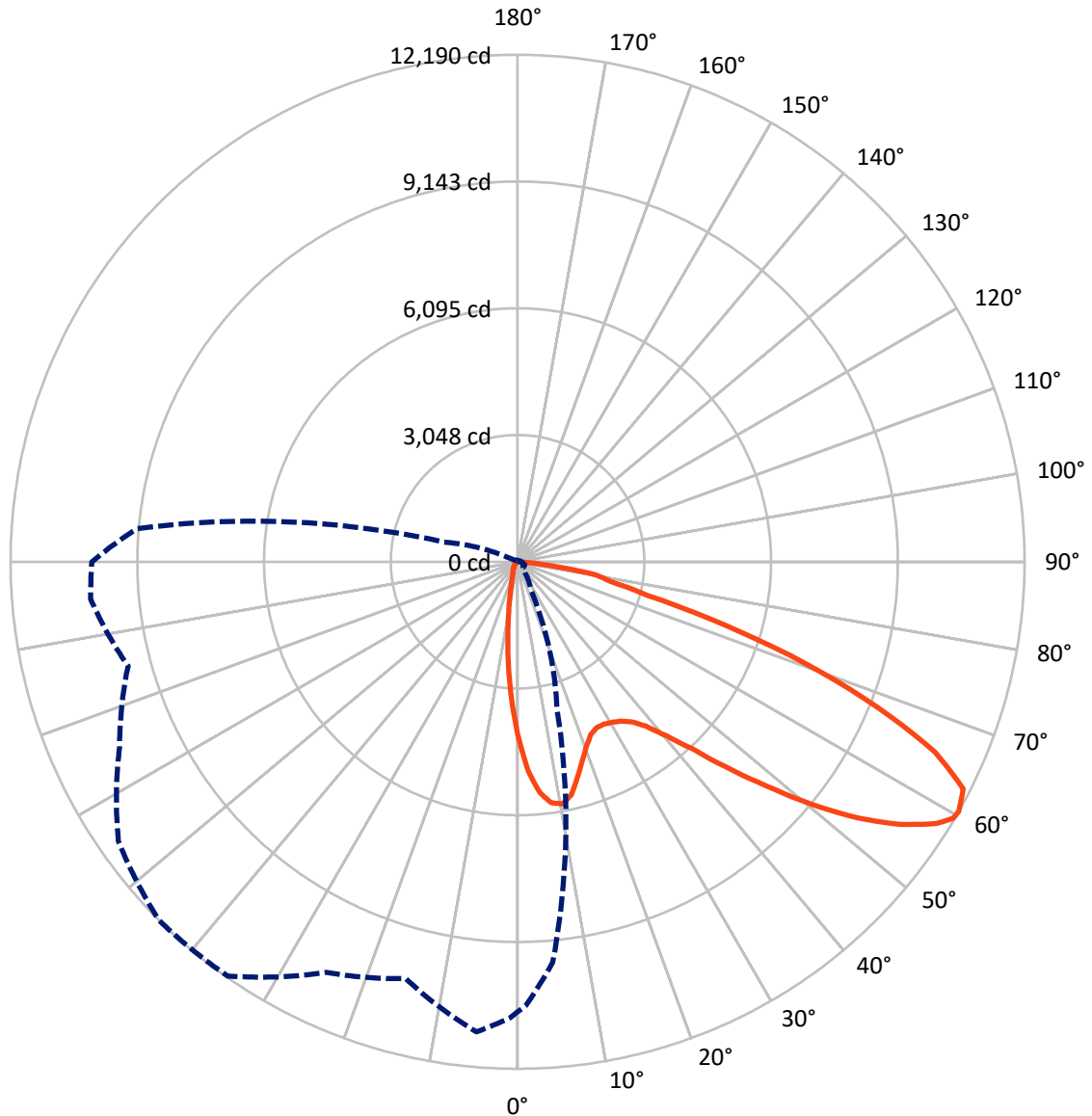
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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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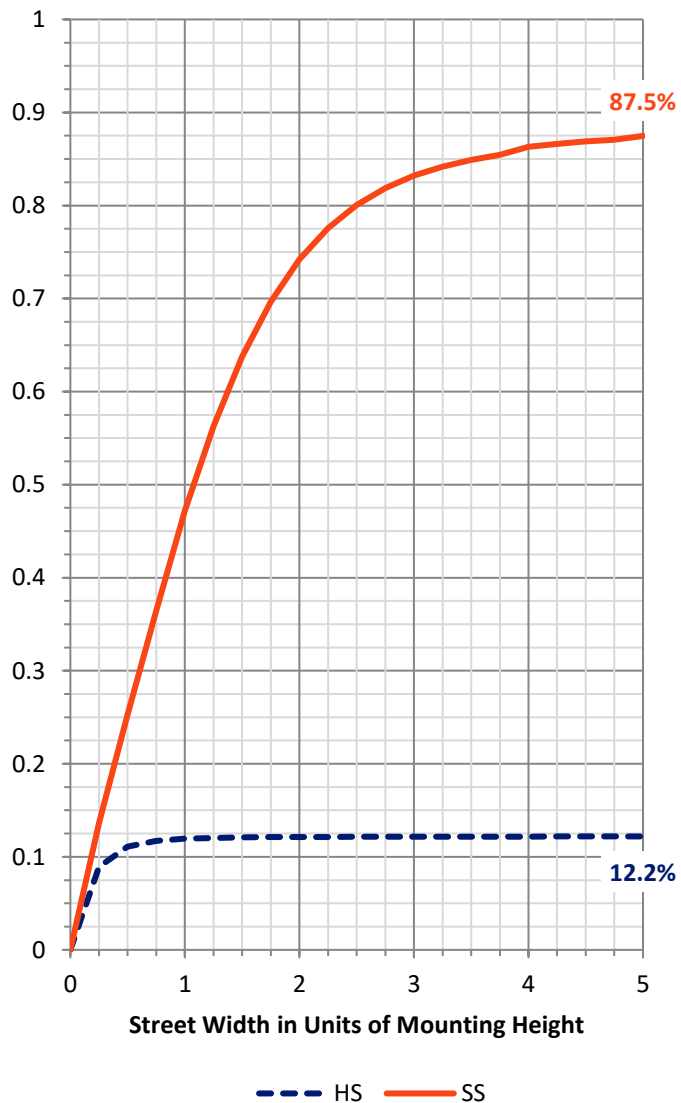
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1601.7	0.0	1601.7
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	11384.3	0.0	11384.3
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	12986.1	0.0	12986.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	319.2	2.5
10°-20°	634.0	4.9
20°-30°	929.6	7.2
30°-40°	1382.5	10.6
40°-50°	2011.9	15.5
50°-60°	2901.4	22.3
60°-70°	3191.2	24.6
70°-80°	1429.4	11.0
80°-90°	186.8	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°	12986.1	100.0
0°-180°	12986.1	100.0

**Coefficient of Utilization**



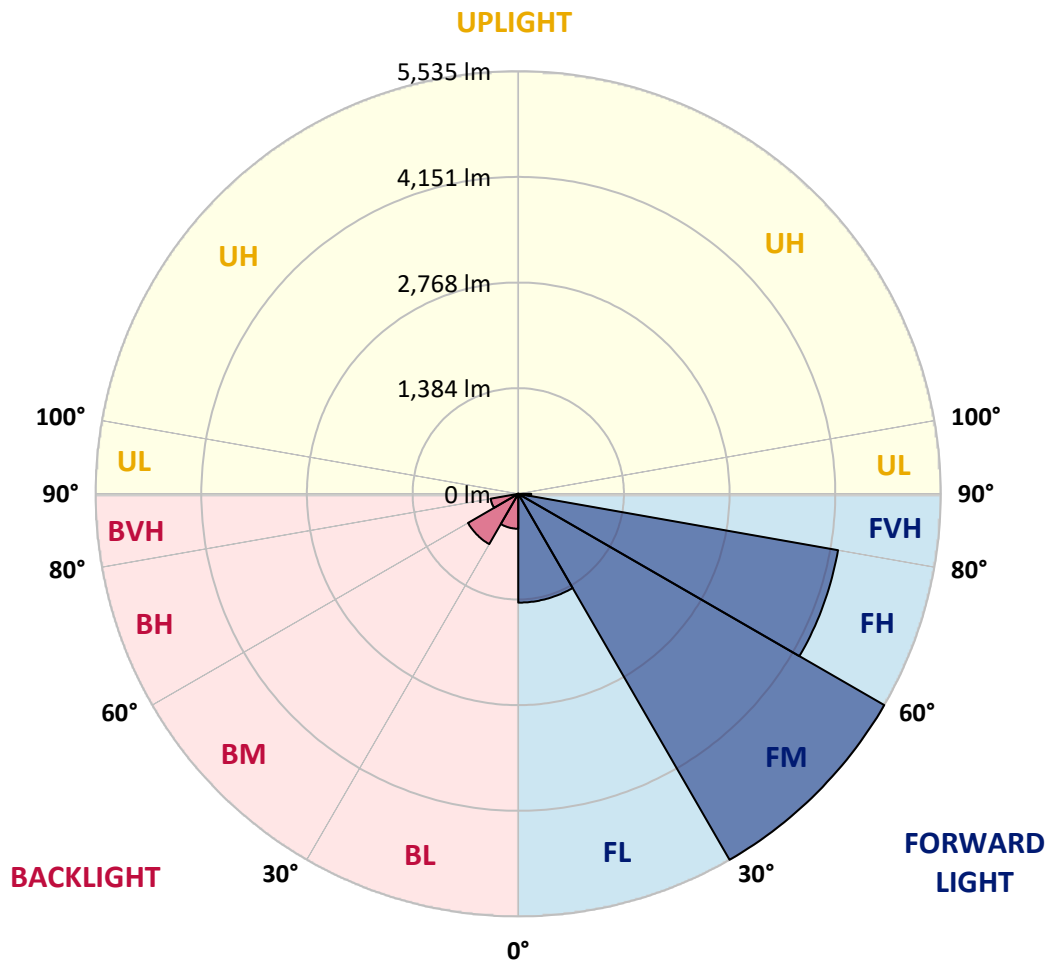
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1425.2	11.0			
FM (30°-60°)	5535.0	42.6			
FH (60°-80°)	4253.3	32.8			G2/5000
FVH (80°-90°)	170.8	1.3			G2/225
BL (0°-30°)	457.7	3.5	B1/500		
BM (30°-60°)	760.8	5.9	B1/1000		
BH (60°-80°)	367.3	2.8	B1/500		G1/500
BVH (80°-90°)	16.0	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°	4292.1	4292.1	4292.1	4292.1	4292.1	4292.1	4292.1	4292.1	4292.1	4292.1	4292.1
2.5°	4718.5	4697.8	4650.4	4506.3	4380.9	4217.1	4051.2	3921.0	3840.9	3693.9	3626.8
5°	4571.5	4581.3	4444.1	4147.9	3818.2	3593.2	3347.4	3152.0	2936.7	2800.5	2657.3
7.5°	4187.4	4167.7	4018.7	3606.0	3205.2	2879.5	2568.6	2315.8	2156.9	2029.5	1923.0
10°	3858.7	3843.9	3653.4	3122.3	2692.0	2448.1	2237.8	2016.7	1845.9	1659.4	1510.3
12.5°	3652.4	3618.9	3399.7	2845.0	2494.5	2267.5	2038.5	1808.4	1572.5	1384.0	1203.3
15°	3583.3	3534.9	3291.1	2749.2	2368.2	2079.9	1792.7	1528.1	1256.6	1048.4	912.1
17.5°	3708.7	3628.7	3369.1	2732.4	2217.1	1835.1	1481.7	1137.2	854.9	695.9	612.0
20°	3996.0	3904.1	3566.6	2715.6	2049.3	1560.7	1126.3	803.5	591.3	504.4	458.1
22.5°	4422.4	4296.0	3858.7	2742.3	1894.3	1293.1	813.4	567.6	469.9	415.6	383.0
25°	4934.7	4829.1	4228.9	2837.0	1771.9	1082.9	628.8	463.9	395.8	362.3	337.6
27.5°	5496.3	5327.6	4707.6	2950.6	1660.4	920.0	551.8	414.6	352.4	321.8	309.0
30°	5896.1	5764.9	5108.4	3029.5	1521.2	797.6	504.4	408.6	353.4	316.9	293.2
32.5°	6291.0	6123.2	5444.0	3066.1	1419.5	712.7	436.3	356.3	310.0	291.2	267.6
35°	6713.5	6537.8	5778.7	3046.3	1343.5	656.5	395.8	317.8	265.5	234.0	210.2
37.5°	7141.0	6955.4	6111.4	2975.2	1296.1	633.8	364.3	302.1	250.7	218.1	192.5
40°	7648.3	7400.6	6423.3	2917.0	1246.8	621.9	343.5	292.2	239.9	205.3	179.6
42.5°	8062.9	7827.0	6718.5	2886.4	1213.2	594.2	343.5	284.3	232.9	194.5	167.8
45°	8455.9	8211.0	7037.3	2911.0	1199.4	559.7	347.5	283.3	228.0	186.6	159.9
47.5°	8784.6	8572.3	7365.1	3003.8	1181.6	522.2	326.7	297.1	225.0	179.6	152.0
50°	9172.5	8967.2	7798.4	3191.4	1150.0	484.7	301.1	319.9	224.1	173.7	145.1
52.5°	9719.4	9497.2	8396.6	3404.6	1099.6	427.4	277.4	316.9	220.1	163.9	138.2
55°	10387.7	10208.0	9089.5	3660.3	1030.6	363.2	239.9	281.3	208.3	147.0	126.4
57.5°	10816.0	10663.1	9608.8	3770.8	925.0	297.1	211.3	235.9	190.5	131.3	112.5
59°	10866.4	10728.2	9717.4	3734.4	855.8	271.5	197.4	202.3	185.6	122.4	104.6
60°	10824.0	10680.8	9674.0	3663.3	791.7	253.7	185.6	179.6	186.6	117.4	98.7
62.5°	10551.6	10306.7	9252.5	3302.9	692.0	232.9	164.8	147.0	164.8	105.6	87.9
65°	10025.4	9658.1	8418.3	2795.5	652.5	221.1	140.2	123.4	125.4	92.8	76.0
67.5°	9106.4	8643.4	7307.8	2271.4	635.7	222.1	118.5	110.6	96.7	79.0	67.1
70°	7653.3	7191.3	5863.6	1868.6	627.8	222.1	100.7	94.7	81.0	66.2	58.3
72.5°	5423.4	4925.9	3955.5	1467.9	565.6	221.1	85.9	85.9	66.2	55.3	47.4
75°	3064.1	3068.0	2486.6	1038.5	469.9	182.6	69.1	68.1	48.4	42.4	35.5
77.5°	1785.7	1754.2	1676.2	446.2	218.1	82.9	48.4	41.4	33.6	30.6	25.7
80°	918.1	755.1	735.4	161.9	78.0	52.3	33.6	23.7	21.7	19.7	17.8
82.5°	271.5	272.5	242.8	65.1	43.5	34.5	16.8	12.8	11.8	10.9	10.9
85°	18.8	11.8	13.8	19.7	26.6	13.8	1.0	3.0	3.0	3.9	4.9
87.5°	2.0	1.0	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°	4292.1	4292.1	4292.1	4292.1	4292.1	4292.1	4292.1	4292.1	4292.1	4292.1	4292.1
2.5°	3552.7	3596.2	3515.2	3517.2	3450.1	3471.7	3392.8	3418.4	3372.1	3407.6	3512.2
5°	2673.2	2683.0	2617.9	2597.1	2607.0	2647.5	2663.3	2591.3	2621.9	2561.6	2557.7
7.5°	1883.4	1895.3	1857.8	1852.9	1923.9	1907.2	1937.8	1863.7	1793.6	1824.2	1767.9
10°	1463.0	1413.5	1336.6	1314.9	1301.0	1310.0	1310.0	1242.8	1232.9	1206.3	1246.8
12.5°	1154.9	1094.7	1021.7	923.0	898.3	896.3	859.8	800.5	781.8	759.1	792.7
15°	839.1	814.4	753.2	697.9	641.7	630.8	571.6	523.2	459.0	450.1	447.2
17.5°	590.3	553.8	552.8	521.2	488.7	466.9	411.6	356.3	331.7	328.7	328.7
20°	442.2	429.4	408.6	404.7	394.9	370.2	320.8	291.2	279.4	280.3	284.3
22.5°	372.2	363.2	344.5	335.6	331.7	310.0	273.4	253.7	247.7	247.7	248.8
25°	332.7	324.8	304.0	290.2	285.2	269.5	240.9	226.1	221.1	221.1	221.1
27.5°	303.0	293.2	271.5	259.6	250.7	232.9	215.2	200.4	195.4	195.4	196.5
30°	282.3	271.5	251.7	235.9	222.1	206.3	191.5	178.7	172.7	171.8	172.7
32.5°	254.7	244.8	225.0	215.2	199.4	180.6	168.8	157.0	151.0	152.0	151.0
35°	198.4	195.4	181.7	184.6	175.7	159.9	149.1	136.2	129.4	128.3	130.3
37.5°	180.6	168.8	153.0	154.0	151.0	145.1	127.3	113.5	108.6	108.6	109.5
40°	166.9	155.0	137.2	128.3	129.4	129.4	110.6	95.8	90.8	89.8	91.8
42.5°	155.0	143.1	123.4	108.6	104.6	109.5	93.8	79.0	74.1	72.0	74.1
45°	147.0	134.3	111.6	94.7	82.9	88.9	77.0	65.1	59.2	59.2	58.3
47.5°	139.2	127.3	102.7	81.9	69.1	66.2	63.2	52.3	46.4	45.4	46.4
50°	132.2	120.4	92.8	71.1	58.3	51.4	51.4	41.4	37.5	35.5	36.5
52.5°	125.4	112.5	83.9	63.2	50.3	41.4	36.5	33.6	30.6	29.6	30.6
55°	115.5	102.7	75.0	54.3	43.5	34.5	28.7	27.6	25.7	23.7	25.7
57.5°	103.7	91.8	66.2	46.4	34.5	26.6	23.7	22.7	20.7	19.7	19.7
59°	96.7	85.9	61.2	40.5	30.6	23.7	21.7	20.7	18.8	16.8	17.8
60°	92.8	83.9	58.3	37.5	27.6	21.7	19.7	18.8	16.8	15.8	16.8
62.5°	81.9	75.0	51.4	30.6	21.7	15.8	13.8	14.8	13.8	12.8	13.8
65°	72.0	66.2	43.5	23.7	16.8	10.9	9.9	12.8	11.8	10.9	11.8
67.5°	64.1	57.2	36.5	17.8	11.8	6.0	6.9	10.9	10.9	9.9	10.9
70°	55.3	49.3	29.6	12.8	6.0	3.0	4.9	7.9	9.9	8.8	9.9
72.5°	45.4	38.5	22.7	8.8	3.0	0.0	3.0	6.9	9.9	8.8	9.9
75°	35.5	28.7	16.8	4.9	0.0	0.0	1.0	6.0	9.9	8.8	9.9
77.5°	25.7	20.7	9.9	1.0	0.0	0.0	1.0	6.0	9.9	8.8	9.9
80°	16.8	14.8	3.9	0.0	0.0	0.0	1.0	6.0	9.9	9.9	10.9
82.5°	10.9	7.9	0.0	0.0	0.0	0.0	2.0	7.9	10.9	11.8	11.8
85°	4.9	0.0	0.0	0.0	0.0	0.0	3.9	9.9	12.8	12.8	12.8
87.5°	0.0	0.0	0.0	0.0	0.0	2.0	6.9	11.8	14.8	14.8	14.8
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°	4292.1	4292.1	4292.1	4292.1	4292.1	4292.1	4292.1	4292.1	4292.1	4292.1	4292.1
2.5°	3530.0	3592.2	3680.0	3815.3	3924.9	4097.6	4229.9	4410.6	4593.2	4648.4	4734.3
5°	2598.2	2678.1	2877.5	3059.1	3173.7	3538.9	3769.9	4134.2	4460.9	4617.8	4788.6
7.5°	1804.5	1899.2	2051.3	2305.0	2545.8	2843.0	3216.1	3632.7	4111.5	4335.5	4576.4
10°	1266.5	1385.0	1599.2	1807.5	2110.5	2392.8	2761.0	3221.0	3749.2	4013.7	4315.7
12.5°	799.6	905.2	1188.5	1422.5	1800.5	2128.3	2467.9	2884.4	3496.4	3767.9	4084.8
15°	457.0	545.9	678.2	978.3	1397.8	1831.1	2254.6	2738.3	3367.1	3701.8	4044.3
17.5°	340.5	364.3	423.4	593.3	975.3	1481.7	2058.2	2693.9	3455.0	3847.9	4238.8
20°	286.3	302.1	329.7	396.8	621.9	1141.1	1866.7	2701.8	3739.3	4232.8	4604.0
22.5°	256.7	266.5	289.2	332.7	424.5	831.2	1642.6	2748.2	4083.8	4705.7	5134.1
25°	225.0	237.9	257.6	295.2	353.4	576.5	1421.5	2851.8	4566.5	5305.8	5708.6
27.5°	200.4	212.3	232.0	266.5	310.0	440.3	1163.9	2940.7	5075.9	5910.0	6239.7
30°	175.7	187.5	207.3	234.9	274.4	356.3	886.4	2993.0	5570.4	6363.1	6616.8
32.5°	155.0	164.8	183.6	208.3	240.9	302.1	698.9	2938.7	5948.5	6774.8	6944.5
35°	134.3	146.1	161.9	184.6	213.2	257.6	581.5	2751.1	6273.2	7198.2	7259.4
37.5°	112.5	126.4	143.1	163.9	186.6	236.9	466.9	2543.9	6620.7	7726.3	7625.6
40°	94.7	107.6	123.4	146.1	166.9	217.2	359.3	2322.8	6995.9	8221.9	8025.4
42.5°	77.0	90.8	109.5	130.3	164.8	189.6	278.4	2093.7	7332.5	8653.2	8386.7
45°	61.2	73.1	92.8	119.4	163.9	162.9	215.2	1867.7	7586.2	8961.3	8656.2
47.5°	48.4	58.3	78.0	116.5	151.0	138.2	172.7	1727.5	7852.7	9238.6	8862.5
50°	38.5	48.4	67.1	121.4	132.2	118.5	145.1	1750.2	8110.3	9379.8	8947.4
52.5°	32.6	42.4	58.3	95.8	101.7	103.7	127.3	1854.8	8443.0	9530.8	9116.2
55°	28.7	37.5	49.3	67.1	79.0	92.8	116.5	1930.9	8888.2	9854.6	9488.4
57.5°	22.7	32.6	44.4	57.2	65.1	81.0	107.6	1936.8	9290.9	10270.2	9982.9
59°	20.7	29.6	41.4	54.3	58.3	73.1	101.7	1886.4	9305.7	10332.4	10210.0
60°	18.8	28.7	39.5	50.3	55.3	69.1	96.7	1828.1	9171.5	10233.7	10303.7
62.5°	15.8	24.7	34.5	40.5	47.4	57.2	83.9	1616.9	8521.0	9786.5	10130.0
65°	13.8	21.7	29.6	33.6	39.5	49.3	74.1	1294.1	7802.4	9180.4	9632.5
67.5°	12.8	19.7	25.7	28.7	34.5	45.4	66.2	914.1	6871.5	8411.4	8885.2
70°	11.8	18.8	22.7	26.6	30.6	38.5	56.3	533.1	5293.0	7063.0	7563.5
72.5°	11.8	17.8	19.7	22.7	26.6	34.5	52.3	288.2	3618.9	5387.8	6034.3
75°	11.8	16.8	17.8	19.7	23.7	31.6	46.4	151.0	2339.5	3743.2	4619.8
77.5°	11.8	15.8	17.8	18.8	22.7	27.6	40.5	94.7	1558.7	2621.9	3122.3
80°	12.8	15.8	16.8	18.8	21.7	25.7	33.6	63.2	916.0	1577.4	1900.3
82.5°	13.8	15.8	17.8	19.7	22.7	24.7	29.6	39.5	422.5	1043.4	1180.6
85°	14.8	16.8	18.8	20.7	23.7	24.7	27.6	28.7	69.1	470.9	636.7
87.5°	15.8	17.8	19.7	21.7	25.7	25.7	25.7	25.7	23.7	50.3	128.3
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: P647340

CATALOG NUMBER: GALN-SA3D-835-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4292.1	4292.1	4292.1	4292.1	4292.1	4292.1	4292.1	4292.1	4292.1	4292.1
2.5°	4842.9	4954.4	5032.4	5052.2	4995.9	4970.2	4899.2	4788.6	4721.5	4718.5
5°	5103.5	5365.1	5546.7	5577.3	5468.7	5285.2	5066.9	4785.6	4620.8	4571.5
7.5°	5059.1	5517.1	5809.3	5851.8	5669.2	5318.7	4896.2	4443.1	4263.4	4187.4
10°	4876.4	5435.2	5852.8	5919.9	5676.0	5182.4	4645.5	4140.0	3917.0	3858.7
12.5°	4720.5	5285.2	5656.3	5749.1	5564.5	5071.9	4495.4	3945.6	3706.7	3652.4
15°	4652.4	5107.4	5334.5	5381.9	5351.3	5002.8	4479.6	3915.9	3642.5	3583.3
17.5°	4720.5	4956.4	4985.0	5033.4	5101.6	4995.9	4631.7	4076.8	3781.7	3708.7
20°	4899.2	4825.2	4706.7	4727.4	4883.3	5024.5	4902.1	4433.3	4073.9	3996.0
22.5°	5203.2	4792.6	4524.0	4506.3	4703.7	5120.3	5299.0	4916.0	4499.4	4422.4
25°	5576.4	4874.5	4456.9	4418.5	4633.6	5260.4	5730.3	5507.2	5052.2	4934.7
27.5°	5983.1	5044.2	4456.9	4419.4	4627.7	5384.8	6099.5	6030.4	5624.7	5496.3
30°	6206.1	5184.5	4521.1	4478.7	4700.7	5456.9	6297.0	6495.4	6055.1	5896.1
32.5°	6405.6	5378.9	4646.5	4566.5	4853.7	5563.5	6473.7	6890.2	6397.7	6291.0
35°	6589.2	5587.2	4819.2	4726.4	5055.1	5709.6	6669.1	7304.8	6874.4	6713.5
37.5°	6791.5	5829.0	5088.7	5009.7	5391.7	5993.9	6901.0	7849.7	7343.3	7141.0
40°	7011.6	6109.4	5531.9	5498.4	5926.8	6315.7	7194.3	8431.1	7878.3	7648.3
42.5°	7235.7	6432.2	6074.8	6130.1	6532.9	6766.8	7495.3	8878.4	8316.6	8062.9
45°	7439.0	6844.8	6780.6	7054.1	7239.7	7207.1	7718.4	9193.2	8698.7	8455.9
47.5°	7695.7	7446.0	7634.6	8056.1	8061.0	7685.8	7887.2	9450.9	9027.4	8784.6
50°	7983.0	8155.7	8737.2	9166.6	9051.1	8156.7	8084.6	9755.9	9367.0	9172.5
52.5°	8315.6	8950.4	9755.9	10232.6	9963.2	8670.0	8413.4	10085.6	9906.0	9719.4
55°	8702.6	9492.3	10771.7	11151.7	10880.3	9307.8	8912.9	10532.8	10515.0	10387.7
57.5°	9139.9	10064.8	11360.0	11874.3	11632.4	10056.0	9610.8	10954.2	10887.1	10816.0
59°	9485.4	10359.0	11619.6	12152.6	12006.6	10580.1	10079.6	11216.9	10973.0	10866.4
60°	9694.7	10558.4	11715.3	12190.1	12156.6	10892.1	10376.8	11345.2	10972.0	10824.0
62.5°	10315.6	10906.9	11678.8	12023.4	12154.7	11490.3	11248.4	11486.4	10768.7	10551.6
65°	10536.7	10791.4	11073.7	11031.3	11143.8	11459.7	11805.2	11331.3	10334.3	10025.4
67.5°	10106.3	9524.9	9624.6	9341.3	9286.0	10188.2	11579.2	10573.2	9484.4	9106.4
70°	8519.0	7296.9	7246.6	7376.9	7019.5	8248.5	10397.5	9113.3	8081.7	7653.3
72.5°	6705.6	5156.8	4732.4	5212.1	5201.2	6293.0	8637.4	6466.7	5459.9	5423.4
75°	5273.3	3590.2	3150.9	3228.9	3379.0	4555.7	6879.4	4106.5	3362.2	3064.1
77.5°	3539.9	2543.9	2373.1	2277.4	2439.2	2924.9	4352.3	2227.0	1885.5	1785.7
80°	2040.4	1848.0	2098.7	1905.2	1992.0	1843.0	2164.8	1021.7	848.0	918.1
82.5°	1327.7	1052.3	1121.4	833.1	1139.2	1149.1	694.9	302.1	255.6	271.5
85°	830.2	493.6	277.4	197.4	392.9	722.6	217.2	18.8	21.7	18.8
87.5°	215.2	81.9	34.5	51.4	63.2	56.3	50.3	3.0	1.0	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)