

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: P458730

Luminaire Tested: **GALN-SA2D-735-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458730  
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-SA2D-735-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 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: 10407 lumens  
Efficiency: N/A  
Efficacy: 83.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

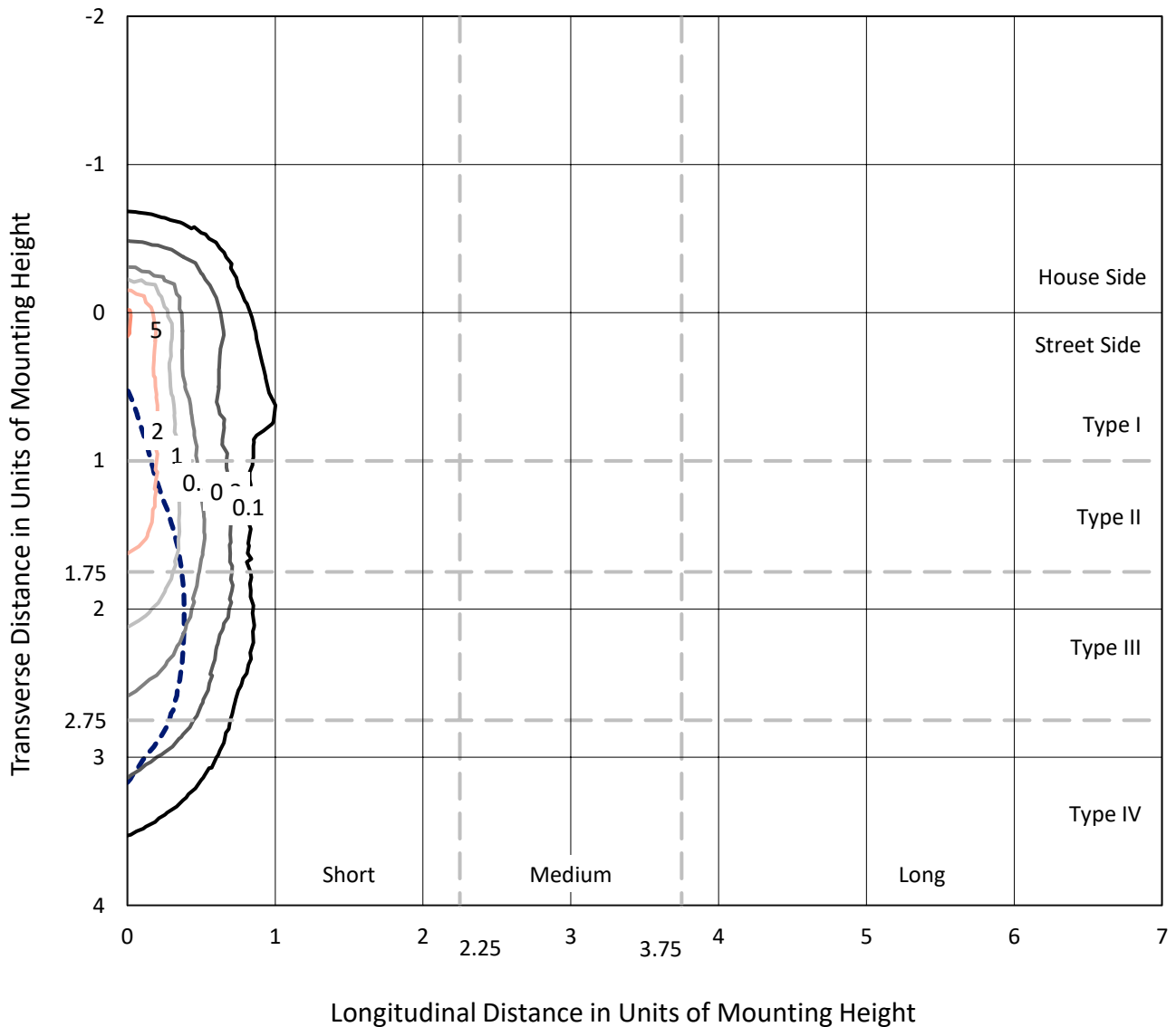




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### Iso-Footcandle Lines of Horizontal Illumination

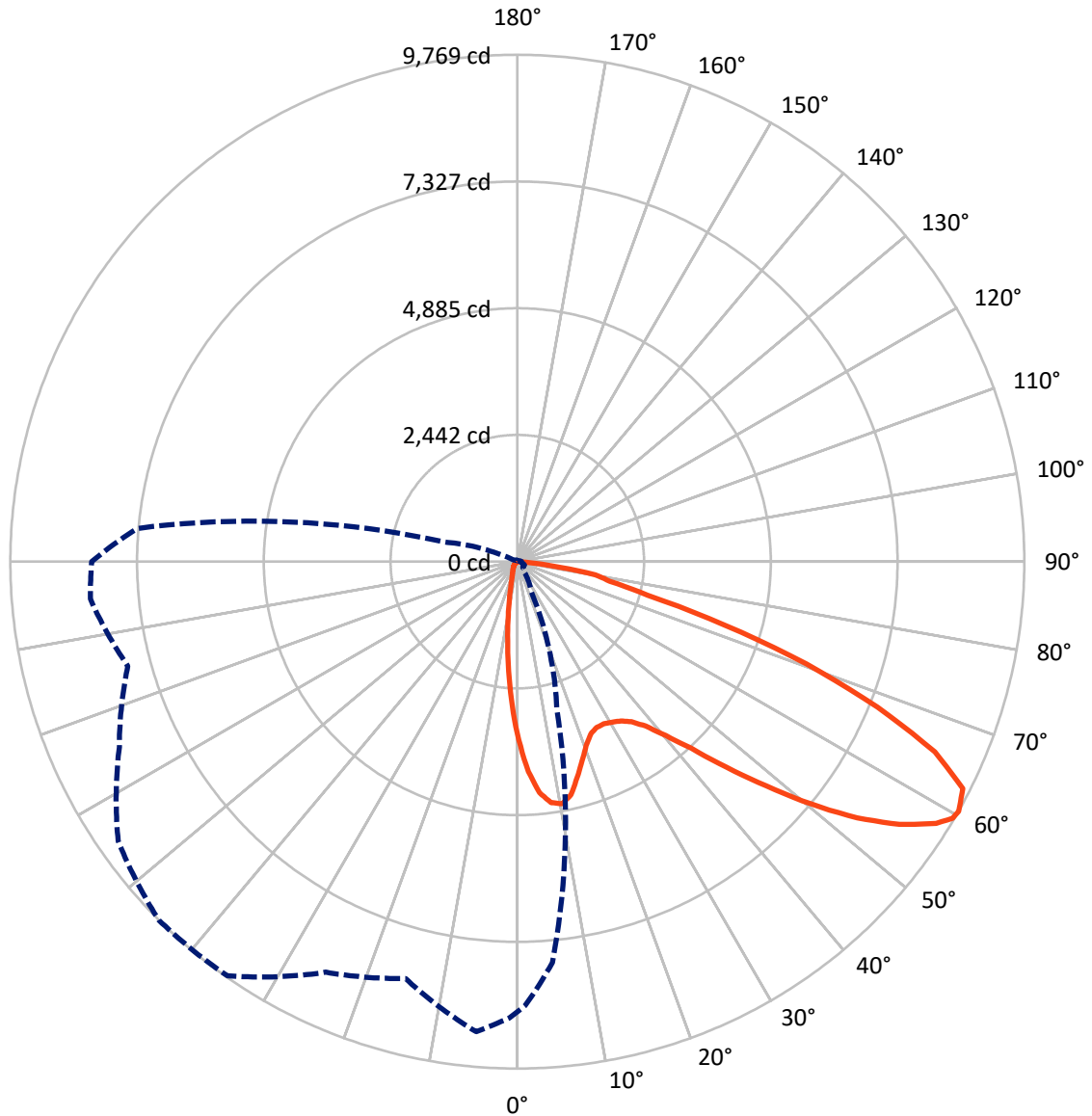
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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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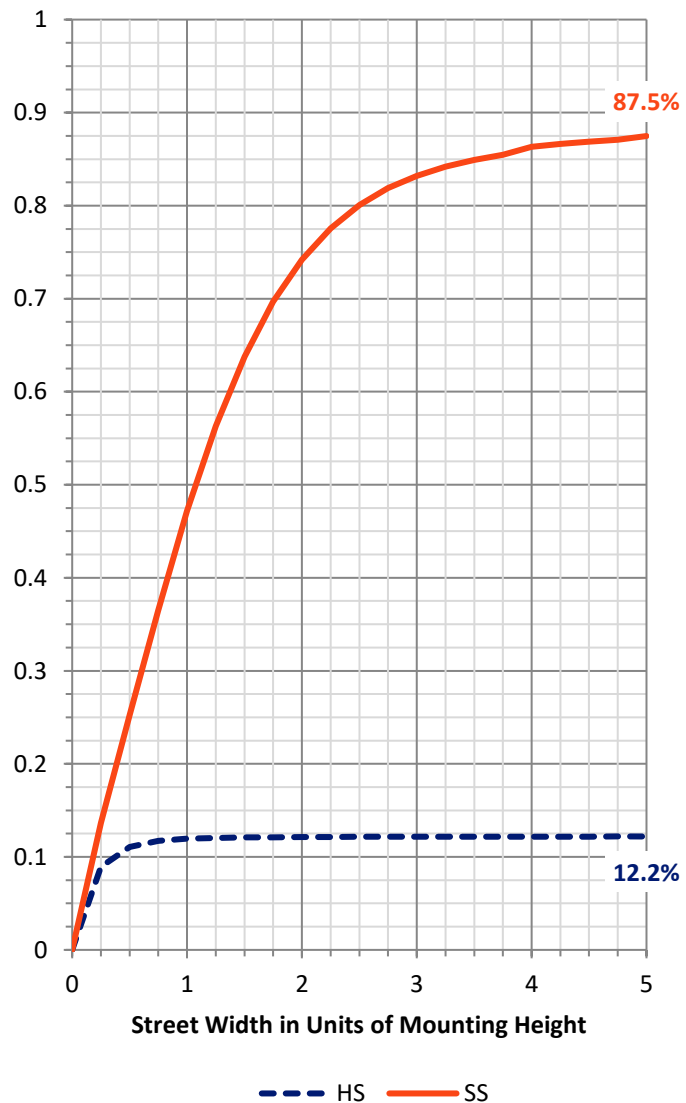
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1283.6	0.0	1283.6
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	9123.4	0.0	9123.4
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	10407.0	0.0	10407.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	255.8	2.5
10°-20°	508.1	4.9
20°-30°	745.0	7.2
30°-40°	1107.9	10.6
40°-50°	1612.4	15.5
50°-60°	2325.2	22.3
60°-70°	2557.4	24.6
70°-80°	1145.5	11.0
80°-90°	149.7	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°	10407.0	100.0
0°-180°	10407.0	100.0



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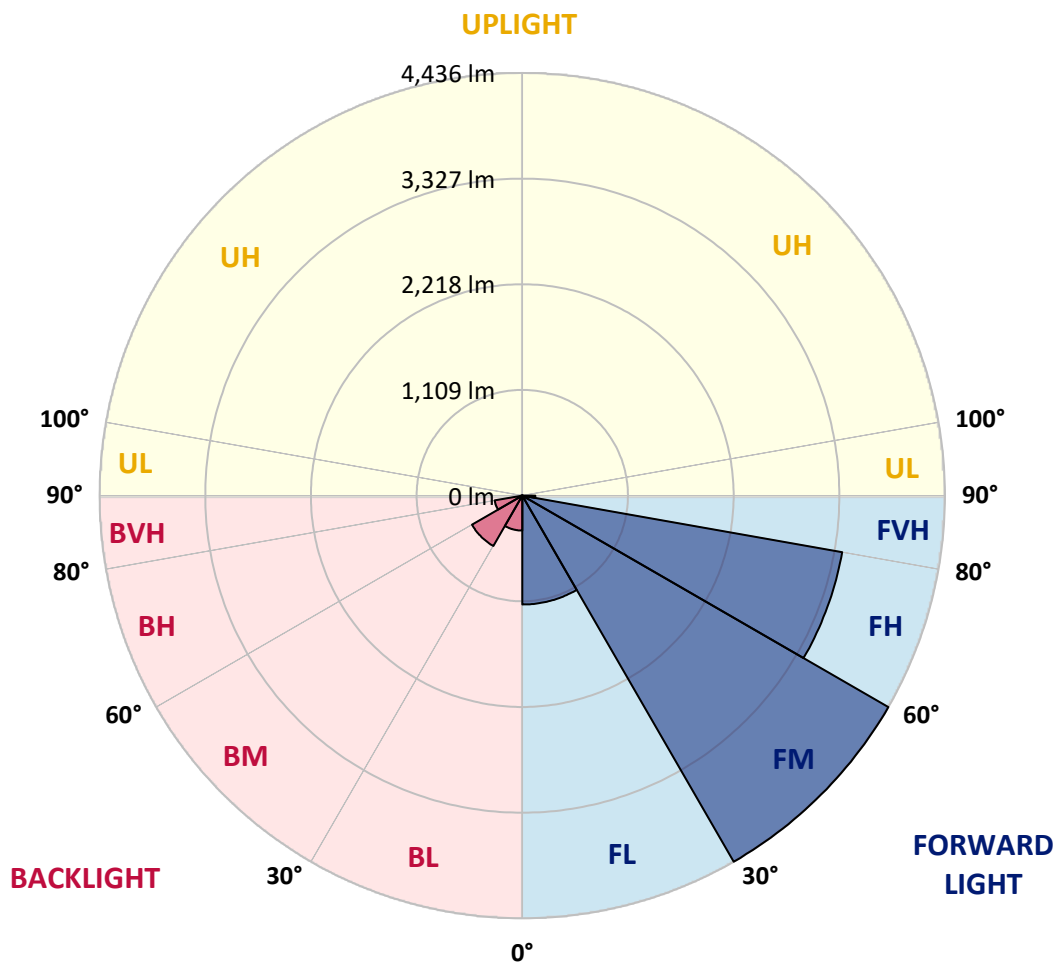
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1142.1	11.0			
FM (30°-60°)	4435.8	42.6			
FH (60°-80°)	3408.6	32.8			G2/5000
FVH (80°-90°)	136.9	1.3			G2/225
BL (0°-30°)	366.8	3.5	B1/500		
BM (30°-60°)	609.7	5.9	B1/1000		
BH (60°-80°)	294.4	2.8	B1/500		G1/500
BVH (80°-90°)	12.8	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°	3439.7	3439.7	3439.7	3439.7	3439.7	3439.7	3439.7	3439.7	3439.7	3439.7	3439.7
2.5°	3781.4	3764.8	3726.8	3611.3	3510.9	3379.5	3246.6	3142.2	3078.1	2960.3	2906.5
5°	3663.5	3671.5	3561.5	3324.2	3059.9	2879.6	2682.6	2526.0	2353.5	2244.3	2129.6
7.5°	3355.8	3340.0	3220.5	2889.9	2568.7	2307.6	2058.4	1855.9	1728.5	1626.5	1541.0
10°	3092.4	3080.5	2927.8	2502.2	2157.3	1961.9	1793.4	1616.2	1479.3	1329.8	1210.4
12.5°	2927.0	2900.1	2724.5	2279.9	1999.1	1817.1	1633.6	1449.3	1260.2	1109.1	964.3
15°	2871.7	2832.9	2637.5	2203.2	1897.8	1666.8	1436.6	1224.6	1007.1	840.1	731.0
17.5°	2972.1	2908.0	2700.0	2189.7	1776.8	1470.6	1187.4	911.3	685.1	557.7	490.5
20°	3202.3	3128.8	2858.2	2176.3	1642.3	1250.7	902.6	643.9	473.9	404.2	367.1
22.5°	3544.1	3442.8	3092.4	2197.6	1518.1	1036.3	651.9	454.9	376.6	333.0	306.9
25°	3954.7	3870.0	3389.0	2273.6	1420.0	867.8	503.9	371.8	317.2	290.3	270.6
27.5°	4404.8	4269.5	3772.7	2364.6	1330.6	737.3	442.2	332.3	282.4	257.9	247.6
30°	4725.2	4620.0	4093.9	2427.9	1219.1	639.2	404.2	327.5	283.2	253.9	235.0
32.5°	5041.6	4907.1	4362.9	2457.1	1137.6	571.2	349.7	285.6	248.4	233.4	214.4
35°	5380.2	5239.4	4631.0	2441.3	1076.7	526.1	317.2	254.7	212.8	187.5	168.5
37.5°	5722.7	5574.0	4897.6	2384.3	1038.7	507.9	291.9	242.1	200.9	174.8	154.3
40°	6129.4	5930.8	5147.6	2337.7	999.1	498.4	275.3	234.2	192.2	164.5	144.0
42.5°	6461.6	6272.6	5384.2	2313.1	972.3	476.2	275.3	227.8	186.7	155.8	134.5
45°	6776.5	6580.3	5639.7	2332.9	961.2	448.5	278.5	227.0	182.7	149.5	128.2
47.5°	7039.9	6869.8	5902.3	2407.3	946.9	418.5	261.9	238.1	180.4	144.0	121.8
50°	7350.8	7186.3	6249.6	2557.6	921.6	388.4	241.3	256.3	179.6	139.2	116.3
52.5°	7789.1	7611.1	6729.0	2728.5	881.3	342.5	222.3	253.9	176.4	131.3	110.8
55°	8324.6	8180.7	7284.4	2933.4	825.9	291.1	192.2	225.5	166.9	117.9	101.3
57.5°	8668.0	8545.4	7700.5	3022.0	741.3	238.1	169.3	189.1	152.7	105.2	90.2
59°	8708.3	8597.6	7787.5	2992.7	685.9	217.5	158.2	162.2	148.7	98.1	83.9
60°	8674.3	8559.6	7752.7	2935.7	634.5	203.3	148.7	144.0	149.5	94.1	79.1
62.5°	8456.0	8259.8	7414.9	2647.0	554.6	186.7	132.1	117.9	132.1	84.6	70.4
65°	8034.3	7740.0	6746.4	2240.4	522.9	177.2	112.3	98.9	100.5	74.4	60.9
67.5°	7297.8	6926.8	5856.4	1820.3	509.5	178.0	94.9	88.6	77.5	63.3	53.8
70°	6133.3	5763.1	4699.1	1497.5	503.1	178.0	80.7	75.9	64.9	53.0	46.7
72.5°	4346.3	3947.5	3169.9	1176.4	453.3	177.2	68.8	68.8	53.0	44.3	38.0
75°	2455.5	2458.7	1992.8	832.2	376.6	146.4	55.4	54.6	38.8	34.0	28.5
77.5°	1431.1	1405.8	1343.3	357.6	174.8	66.5	38.8	33.2	26.9	24.5	20.6
80°	735.7	605.2	589.4	129.7	62.5	41.9	26.9	19.0	17.4	15.8	14.2
82.5°	217.5	218.3	194.6	52.2	34.8	27.7	13.4	10.3	9.5	8.7	8.7
85°	15.0	9.5	11.1	15.8	21.4	11.1	0.8	2.4	2.4	3.2	4.0
87.5°	1.6	0.8	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°	3439.7	3439.7	3439.7	3439.7	3439.7	3439.7	3439.7	3439.7	3439.7	3439.7	3439.7
2.5°	2847.1	2881.9	2817.1	2818.7	2764.9	2782.3	2719.0	2739.5	2702.4	2730.8	2814.7
5°	2142.3	2150.2	2098.0	2081.4	2089.3	2121.7	2134.4	2076.6	2101.1	2052.9	2049.7
7.5°	1509.4	1518.9	1488.8	1484.9	1541.8	1528.4	1552.9	1493.6	1437.4	1461.9	1416.8
10°	1172.4	1132.8	1071.1	1053.7	1042.7	1049.8	1049.8	996.0	988.1	966.7	999.1
12.5°	925.6	877.3	818.8	739.7	719.9	718.3	689.0	641.6	626.5	608.3	635.2
15°	672.4	652.6	603.6	559.3	514.2	505.5	458.0	419.3	367.9	360.7	358.4
17.5°	473.1	443.8	443.0	417.7	391.6	374.2	329.9	285.6	265.8	263.4	263.4
20°	354.4	344.1	327.5	324.3	316.4	296.7	257.1	233.4	223.9	224.7	227.8
22.5°	298.2	291.1	276.1	269.0	265.8	248.4	219.1	203.3	198.6	198.6	199.4
25°	266.6	260.3	243.7	232.6	228.6	216.0	193.0	181.2	177.2	177.2	177.2
27.5°	242.9	235.0	217.5	208.1	200.9	186.7	172.5	160.6	156.6	156.6	157.4
30°	226.3	217.5	201.7	189.1	178.0	165.3	153.5	143.2	138.4	137.6	138.4
32.5°	204.1	196.2	180.4	172.5	159.8	144.8	135.3	125.8	121.0	121.8	121.0
35°	159.0	156.6	145.6	147.9	140.8	128.2	119.5	109.2	103.6	102.8	104.4
37.5°	144.8	135.3	122.6	123.4	121.0	116.3	102.1	91.0	87.0	87.0	87.8
40°	133.7	124.2	110.0	102.8	103.6	103.6	88.6	76.7	72.8	72.0	73.6
42.5°	124.2	114.7	98.9	87.0	83.9	87.8	75.2	63.3	59.3	57.7	59.3
45°	117.9	107.6	89.4	75.9	66.5	71.2	61.7	52.2	47.5	47.5	46.7
47.5°	111.5	102.1	82.3	65.7	55.4	53.0	50.6	41.9	37.2	36.4	37.2
50°	106.0	96.5	74.4	57.0	46.7	41.1	41.1	33.2	30.1	28.5	29.3
52.5°	100.5	90.2	67.2	50.6	40.3	33.2	29.3	26.9	24.5	23.7	24.5
55°	92.6	82.3	60.1	43.5	34.8	27.7	22.9	22.2	20.6	19.0	20.6
57.5°	83.1	73.6	53.0	37.2	27.7	21.4	19.0	18.2	16.6	15.8	15.8
59°	77.5	68.8	49.0	32.4	24.5	19.0	17.4	16.6	15.0	13.4	14.2
60°	74.4	67.2	46.7	30.1	22.2	17.4	15.8	15.0	13.4	12.7	13.4
62.5°	65.7	60.1	41.1	24.5	17.4	12.7	11.1	11.9	11.1	10.3	11.1
65°	57.7	53.0	34.8	19.0	13.4	8.7	7.9	10.3	9.5	8.7	9.5
67.5°	51.4	45.9	29.3	14.2	9.5	4.7	5.5	8.7	8.7	7.9	8.7
70°	44.3	39.6	23.7	10.3	4.7	2.4	4.0	6.3	7.9	7.1	7.9
72.5°	36.4	30.9	18.2	7.1	2.4	0.0	2.4	5.5	7.9	7.1	7.9
75°	28.5	22.9	13.4	4.0	0.0	0.0	0.8	4.7	7.9	7.1	7.9
77.5°	20.6	16.6	7.9	0.8	0.0	0.0	0.8	4.7	7.9	7.1	7.9
80°	13.4	11.9	3.2	0.0	0.0	0.0	0.8	4.7	7.9	7.9	8.7
82.5°	8.7	6.3	0.0	0.0	0.0	0.0	1.6	6.3	8.7	9.5	9.5
85°	4.0	0.0	0.0	0.0	0.0	0.0	3.2	7.9	10.3	10.3	10.3
87.5°	0.0	0.0	0.0	0.0	0.0	1.6	5.5	9.5	11.9	11.9	11.9
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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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3439.7	3439.7	3439.7	3439.7	3439.7	3439.7	3439.7	3439.7	3439.7	3439.7	3439.7
2.5°	2828.9	2878.8	2949.2	3057.6	3145.4	3283.8	3389.8	3534.6	3680.9	3725.2	3794.1
5°	2082.2	2146.2	2306.0	2451.6	2543.4	2836.1	3021.2	3313.1	3574.9	3700.7	3837.6
7.5°	1446.1	1522.1	1643.9	1847.2	2040.2	2278.3	2577.4	2911.2	3294.9	3474.5	3667.5
10°	1015.0	1109.9	1281.6	1448.5	1691.4	1917.6	2212.7	2581.3	3004.6	3216.6	3458.6
12.5°	640.8	725.4	952.5	1140.0	1442.9	1705.6	1977.7	2311.6	2802.0	3019.6	3273.5
15°	366.3	437.5	543.5	784.0	1120.2	1467.5	1806.9	2194.5	2698.4	2966.6	3241.1
17.5°	272.9	291.9	339.4	475.4	781.6	1187.4	1649.4	2158.9	2768.8	3083.7	3396.9
20°	229.4	242.1	264.2	318.0	498.4	914.5	1496.0	2165.2	2996.7	3392.2	3689.6
22.5°	205.7	213.6	231.8	266.6	340.2	666.1	1316.4	2202.4	3272.7	3771.1	4114.5
25°	180.4	190.7	206.5	236.5	283.2	462.0	1139.2	2285.5	3659.6	4252.1	4574.9
27.5°	160.6	170.1	185.9	213.6	248.4	352.8	932.7	2356.7	4067.8	4736.3	5000.5
30°	140.8	150.3	166.1	188.3	219.9	285.6	710.4	2398.6	4464.1	5099.4	5302.7
32.5°	124.2	132.1	147.1	166.9	193.0	242.1	560.1	2355.1	4767.1	5429.3	5565.3
35°	107.6	117.1	129.7	147.9	170.9	206.5	466.0	2204.8	5027.4	5768.6	5817.7
37.5°	90.2	101.3	114.7	131.3	149.5	189.9	374.2	2038.6	5305.8	6191.9	6111.2
40°	75.9	86.2	98.9	117.1	133.7	174.0	288.0	1861.4	5606.5	6589.0	6431.6
42.5°	61.7	72.8	87.8	104.4	132.1	151.9	223.1	1677.9	5876.2	6934.7	6721.1
45°	49.0	58.5	74.4	95.7	131.3	130.5	172.5	1496.7	6079.5	7181.5	6937.1
47.5°	38.8	46.7	62.5	93.3	121.0	110.8	138.4	1384.4	6293.1	7403.8	7102.4
50°	30.9	38.8	53.8	97.3	106.0	94.9	116.3	1402.6	6499.6	7516.9	7170.4
52.5°	26.1	34.0	46.7	76.7	81.5	83.1	102.1	1486.5	6766.2	7638.0	7305.7
55°	22.9	30.1	39.6	53.8	63.3	74.4	93.3	1547.4	7123.0	7897.5	7604.0
57.5°	18.2	26.1	35.6	45.9	52.2	64.9	86.2	1552.1	7445.7	8230.5	8000.3
59°	16.6	23.7	33.2	43.5	46.7	58.5	81.5	1511.8	7457.6	8280.3	8182.3
60°	15.0	22.9	31.6	40.3	44.3	55.4	77.5	1465.1	7350.0	8201.2	8257.4
62.5°	12.7	19.8	27.7	32.4	38.0	45.9	67.2	1295.8	6828.7	7842.9	8118.2
65°	11.1	17.4	23.7	26.9	31.6	39.6	59.3	1037.1	6252.8	7357.1	7719.5
67.5°	10.3	15.8	20.6	22.9	27.7	36.4	53.0	732.5	5506.8	6740.9	7120.6
70°	9.5	15.0	18.2	21.4	24.5	30.9	45.1	427.2	4241.8	5660.3	6061.3
72.5°	9.5	14.2	15.8	18.2	21.4	27.7	41.9	231.0	2900.1	4317.8	4835.9
75°	9.5	13.4	14.2	15.8	19.0	25.3	37.2	121.0	1874.9	2999.8	3702.3
77.5°	9.5	12.7	14.2	15.0	18.2	22.2	32.4	75.9	1249.1	2101.1	2502.2
80°	10.3	12.7	13.4	15.0	17.4	20.6	26.9	50.6	734.1	1264.2	1522.8
82.5°	11.1	12.7	14.2	15.8	18.2	19.8	23.7	31.6	338.6	836.2	946.1
85°	11.9	13.4	15.0	16.6	19.0	19.8	22.2	22.9	55.4	377.4	510.3
87.5°	12.7	14.2	15.8	17.4	20.6	20.6	20.6	20.6	19.0	40.3	102.8
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: P458730

CATALOG NUMBER: GALN-SA2D-735-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3439.7	3439.7	3439.7	3439.7	3439.7	3439.7	3439.7	3439.7	3439.7	3439.7
2.5°	3881.1	3970.5	4033.0	4048.8	4003.7	3983.1	3926.2	3837.6	3783.8	3781.4
5°	4089.9	4299.6	4445.1	4469.7	4382.6	4235.5	4060.7	3835.2	3703.1	3663.5
7.5°	4054.3	4421.4	4655.6	4689.6	4543.2	4262.4	3923.8	3560.7	3416.7	3355.8
10°	3908.0	4355.7	4690.4	4744.2	4548.8	4153.2	3722.9	3317.8	3139.0	3092.4
12.5°	3783.0	4235.5	4532.9	4607.3	4459.4	4064.6	3602.6	3162.0	2970.5	2927.0
15°	3728.4	4093.1	4275.1	4313.0	4288.5	4009.2	3590.0	3138.3	2919.1	2871.7
17.5°	3783.0	3972.1	3995.0	4033.8	4088.4	4003.7	3711.8	3267.2	3030.7	2972.1
20°	3926.2	3866.9	3771.9	3788.5	3913.5	4026.7	3928.6	3552.8	3264.8	3202.3
22.5°	4169.8	3840.7	3625.6	3611.3	3769.5	4103.4	4246.6	3939.6	3605.8	3544.1
25°	4468.9	3906.4	3571.8	3540.9	3713.4	4215.7	4592.3	4413.5	4048.8	3954.7
27.5°	4794.8	4042.5	3571.8	3541.7	3708.6	4315.4	4888.1	4832.8	4507.6	4404.8
30°	4973.6	4154.8	3623.2	3589.2	3767.2	4373.1	5046.4	5205.4	4852.6	4725.2
32.5°	5133.4	4310.7	3723.7	3659.6	3889.8	4458.6	5188.0	5521.8	5127.1	5041.6
35°	5280.5	4477.6	3862.1	3787.7	4051.2	4575.7	5344.6	5854.1	5509.2	5380.2
37.5°	5442.7	4671.4	4078.1	4014.8	4320.9	4803.5	5530.5	6290.8	5884.9	5722.7
40°	5619.1	4896.1	4433.3	4406.4	4749.7	5061.4	5765.5	6756.7	6313.7	6129.4
42.5°	5798.7	5154.7	4868.4	4912.7	5235.4	5422.9	6006.8	7115.1	6664.9	6461.6
45°	5961.7	5485.4	5434.0	5653.1	5801.9	5775.8	6185.5	7367.4	6971.1	6776.5
47.5°	6167.3	5967.2	6118.3	6456.1	6460.0	6159.4	6320.8	7573.9	7234.5	7039.9
50°	6397.6	6536.0	7001.9	7346.1	7253.5	6536.8	6479.0	7818.3	7506.7	7350.8
52.5°	6664.1	7172.8	7818.3	8200.4	7984.5	6948.1	6742.5	8082.6	7938.6	7789.1
55°	6974.3	7607.1	8632.4	8937.0	8719.4	7459.2	7142.8	8440.9	8426.7	8324.6
57.5°	7324.7	8066.0	9103.9	9516.0	9322.2	8058.8	7702.1	8778.7	8724.9	8668.0
59°	7601.6	8301.7	9311.9	9739.1	9622.0	8478.9	8077.8	8989.2	8793.8	8708.3
60°	7769.3	8461.5	9388.7	9769.2	9742.3	8728.9	8315.9	9092.0	8793.0	8674.3
62.5°	8266.9	8740.8	9359.4	9635.5	9740.7	9208.3	9014.5	9205.1	8630.0	8456.0
65°	8444.1	8648.2	8874.5	8840.4	8930.6	9183.8	9460.7	9080.9	8281.9	8034.3
67.5°	8099.2	7633.2	7713.1	7486.1	7441.8	8164.8	9279.5	8473.4	7600.8	7297.8
70°	6827.1	5847.7	5807.4	5911.8	5625.4	6610.4	8332.6	7303.3	6476.7	6133.3
72.5°	5373.9	4132.7	3792.5	4177.0	4168.3	5043.2	6922.0	5182.4	4375.5	4346.3
75°	4226.0	2877.2	2525.2	2587.7	2707.9	3650.9	5513.1	3290.9	2694.5	2455.5
77.5°	2836.9	2038.6	1901.8	1825.0	1954.8	2344.0	3487.9	1784.7	1511.0	1431.1
80°	1635.2	1480.9	1681.9	1526.8	1596.4	1477.0	1734.9	818.8	679.5	735.7
82.5°	1064.0	843.3	898.7	667.7	912.9	920.8	556.9	242.1	204.9	217.5
85°	665.3	395.5	222.3	158.2	314.9	579.1	174.0	15.0	17.4	15.0
87.5°	172.5	65.7	27.7	41.1	50.6	45.1	40.3	2.4	0.8	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)