

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: P646900

Luminaire Tested: **GALN-SA4C-835-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646900  
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-SA4C-835-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3500K, 1050mA 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: 15638.9 lumens  
Efficiency: N/A  
Efficacy: 73.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 213  
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

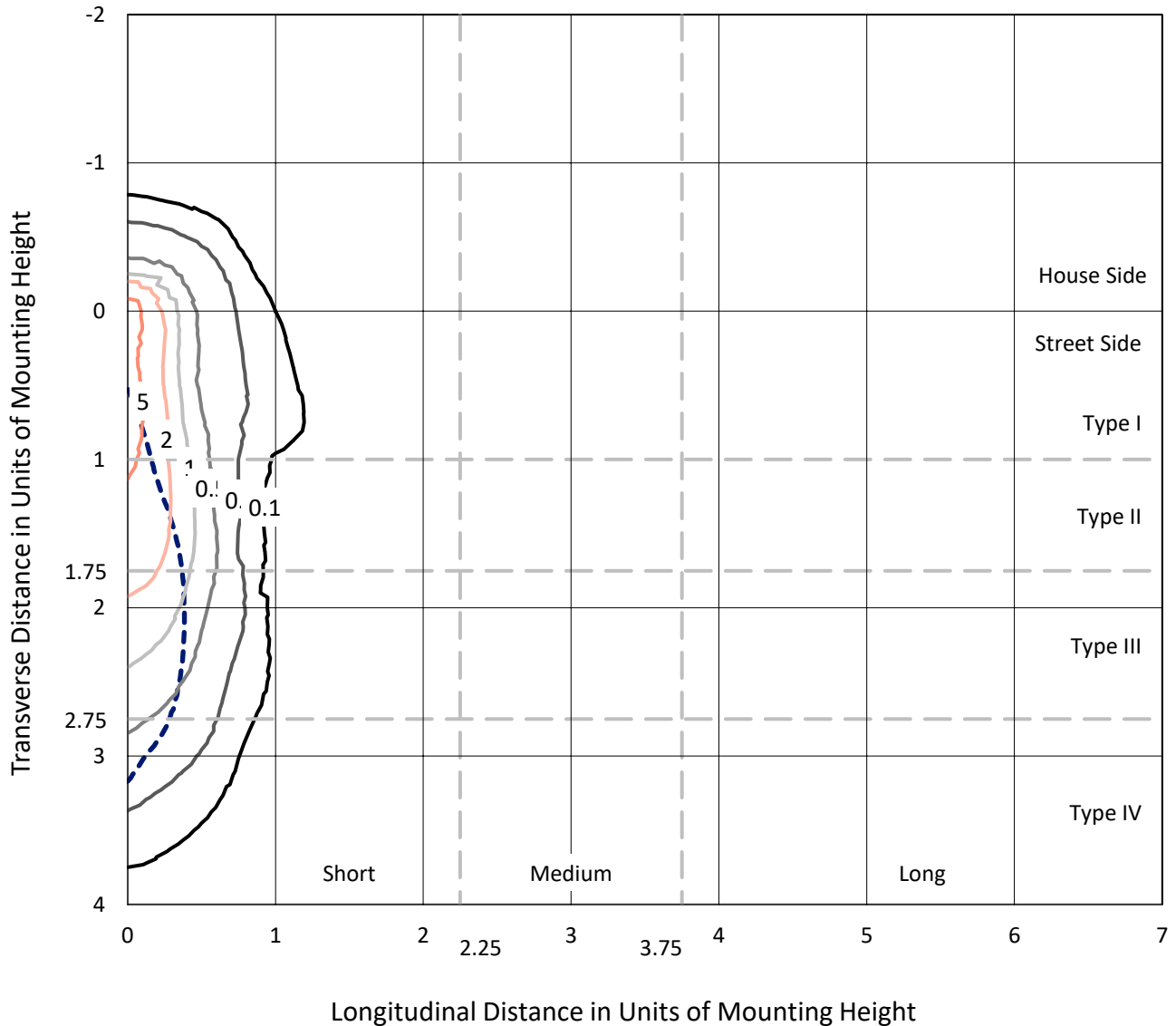




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### Iso-Footcandle Lines of Horizontal Illumination

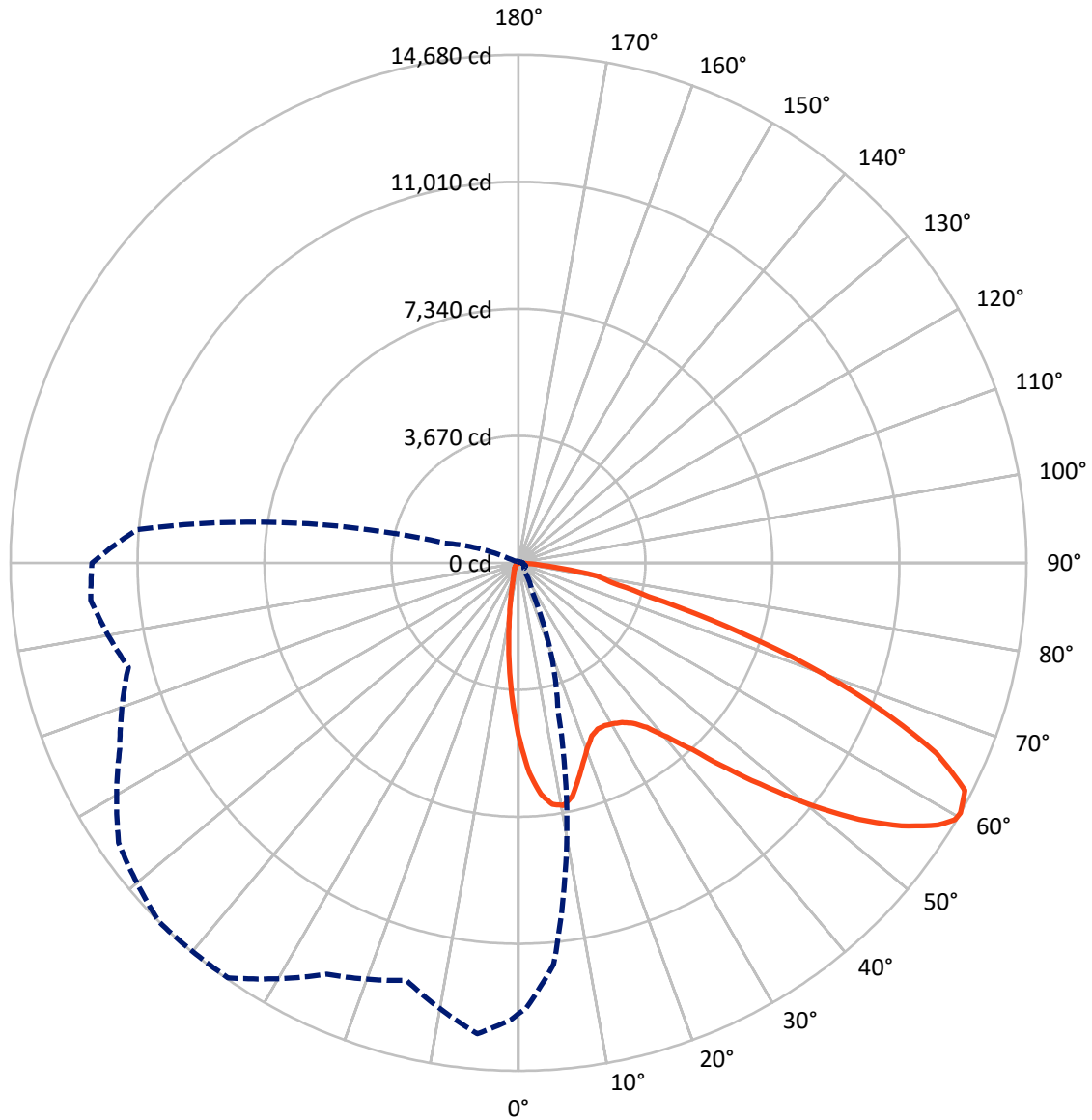
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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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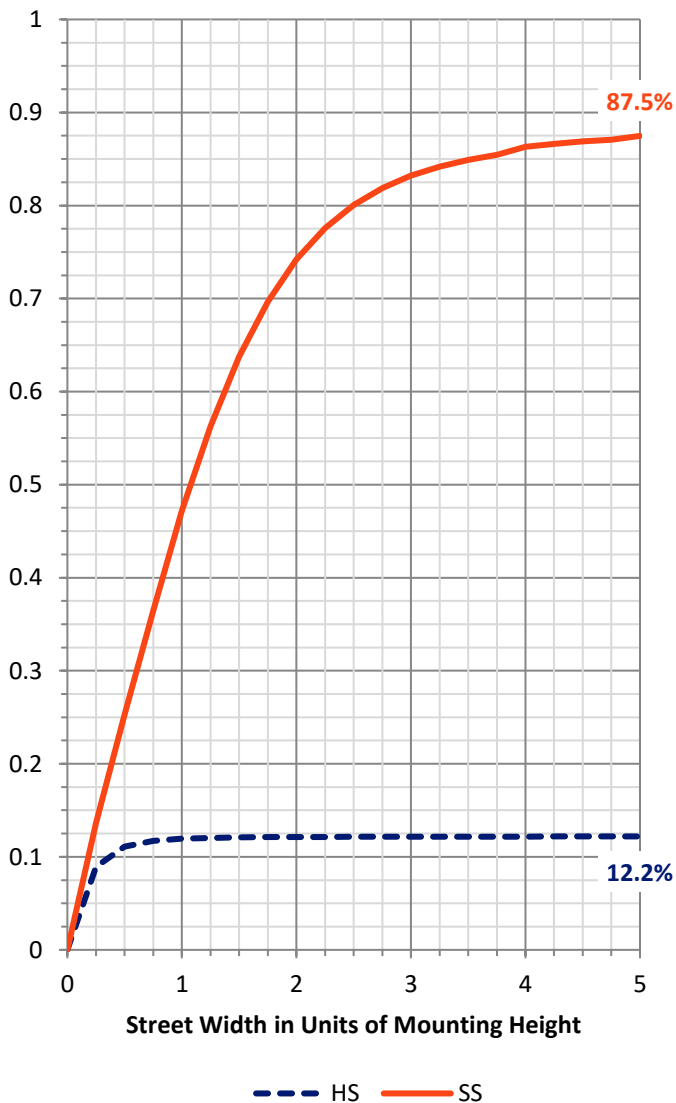
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1928.9	0.0	1928.9
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	13710.0	0.0	13710.0
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	15638.9	0.0	15638.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	384.4	2.5
10°-20°	763.5	4.9
20°-30°	1119.5	7.2
30°-40°	1664.9	10.6
40°-50°	2423.0	15.5
50°-60°	3494.1	22.3
60°-70°	3843.1	24.6
70°-80°	1721.4	11.0
80°-90°	224.9	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°	15638.9	100.0
0°-180°	15638.9	100.0



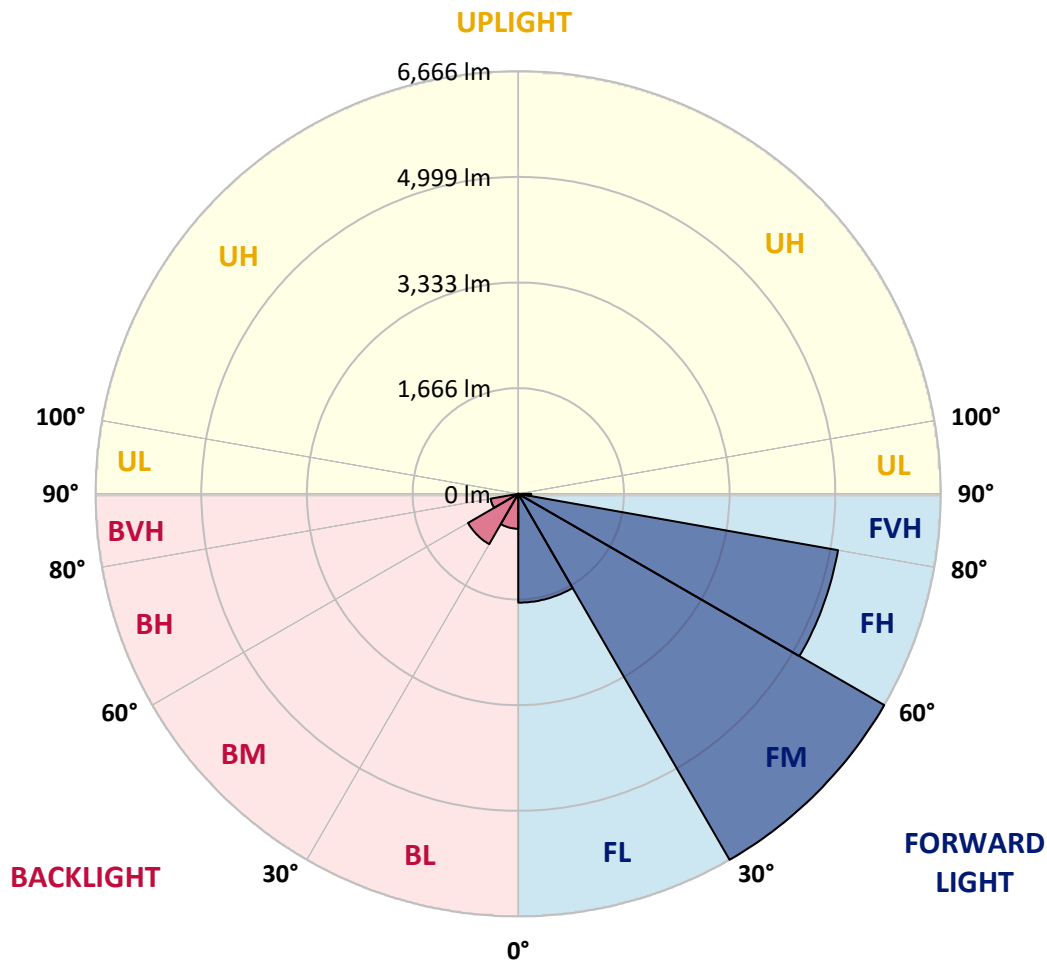
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1716.3	11.0			
FM (30°-60°)	6665.8	42.6			
FH (60°-80°)	5122.2	32.8			G3/7500
FVH (80°-90°)	205.7	1.3			G2/225
BL (0°-30°)	551.2	3.5	B2/1000		
BM (30°-60°)	916.2	5.9	B1/1000		
BH (60°-80°)	442.3	2.8	B1/500		G1/500
BVH (80°-90°)	19.2	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°	5168.9	5168.9	5168.9	5168.9	5168.9	5168.9	5168.9	5168.9	5168.9	5168.9	5168.9
2.5°	5682.4	5657.5	5600.4	5426.8	5275.9	5078.5	4878.8	4721.9	4625.6	4448.5	4367.7
5°	5505.3	5517.2	5352.0	4995.3	4598.2	4327.2	4031.2	3795.8	3536.7	3372.6	3200.2
7.5°	5042.8	5019.1	4839.6	4342.7	3860.0	3467.7	3093.2	2788.9	2597.5	2444.1	2315.8
10°	4646.9	4629.2	4399.8	3760.1	3241.9	2948.2	2695.0	2428.7	2223.0	1998.4	1818.8
12.5°	4398.5	4358.1	4094.2	3426.1	3004.1	2730.6	2454.9	2177.8	1893.8	1666.7	1449.1
15°	4315.3	4257.1	3963.5	3310.8	2851.9	2504.8	2158.8	1840.3	1513.3	1262.5	1098.5
17.5°	4466.3	4370.0	4057.3	3290.6	2670.0	2209.9	1784.4	1369.5	1029.5	838.1	737.0
20°	4812.2	4701.7	4295.1	3270.4	2467.9	1879.5	1356.4	967.7	712.1	607.5	551.6
22.5°	5325.8	5173.6	4646.9	3302.5	2281.3	1557.3	979.5	683.6	565.9	500.5	461.3
25°	5942.7	5815.6	5092.8	3416.6	2133.9	1304.1	757.2	558.7	476.7	436.3	406.5
27.5°	6619.2	6415.9	5669.3	3553.3	1999.5	1107.9	664.5	499.3	424.4	387.6	372.1
30°	7100.6	6942.5	6152.0	3648.4	1831.9	960.5	607.5	492.2	425.6	381.6	353.1
32.5°	7576.2	7374.1	6556.2	3692.4	1709.4	858.3	525.5	429.2	373.3	350.7	322.1
35°	8084.9	7873.4	6959.2	3668.6	1617.9	790.5	476.7	382.8	319.8	281.7	253.2
37.5°	8599.7	8376.2	7359.8	3583.0	1560.9	763.2	438.6	363.8	301.9	262.7	231.8
40°	9210.7	8912.3	7735.5	3512.9	1501.5	748.9	413.7	351.9	288.8	247.3	216.3
42.5°	9710.1	9425.9	8090.9	3476.1	1461.0	715.7	413.7	342.4	280.5	234.2	202.1
45°	10183.2	9888.4	8474.9	3505.7	1444.4	674.0	418.4	341.2	274.6	224.6	192.6
47.5°	10579.0	10323.5	8869.6	3617.5	1422.9	628.9	393.5	357.8	271.1	216.3	183.1
50°	11046.3	10799.0	9391.5	3843.4	1385.0	583.7	362.6	385.2	269.8	209.2	174.8
52.5°	11704.8	11437.4	10111.9	4100.2	1324.3	514.7	334.0	381.6	265.1	197.3	166.5
55°	12509.7	12293.3	10946.4	4408.1	1241.1	437.5	288.8	338.8	250.9	177.1	152.1
57.5°	13025.6	12841.4	11571.7	4541.2	1113.9	357.8	254.4	284.2	229.4	158.1	135.5
59°	13086.2	12919.8	11702.5	4497.2	1030.7	326.9	237.8	243.7	223.5	147.4	126.0
60°	13035.1	12862.7	11650.2	4411.6	953.4	305.5	223.5	216.3	224.6	141.5	118.9
62.5°	12707.0	12412.2	11142.6	3977.7	833.3	280.5	198.5	177.1	198.5	127.2	105.8
65°	12073.4	11631.2	10138.0	3366.7	785.8	266.3	168.8	148.6	151.0	111.7	91.5
67.5°	10966.6	10409.0	8800.6	2735.4	765.6	267.5	142.7	133.1	116.5	95.1	80.8
70°	9216.7	8660.4	7061.4	2250.4	756.1	267.5	121.3	114.2	97.5	79.6	70.2
72.5°	6531.2	5932.1	4763.5	1767.7	681.2	266.3	103.4	103.4	79.6	66.6	57.1
75°	3690.0	3694.7	2994.6	1250.6	565.9	219.9	83.2	82.1	58.3	51.1	42.8
77.5°	2150.5	2112.5	2018.6	537.4	262.7	99.8	58.3	50.0	40.4	36.9	30.9
80°	1105.6	909.5	885.7	195.0	93.9	63.0	40.4	28.5	26.2	23.8	21.4
82.5°	326.9	328.1	292.5	78.5	52.3	41.6	20.2	15.4	14.3	13.1	13.1
85°	22.6	14.3	16.7	23.8	32.1	16.7	1.2	3.6	3.6	4.8	6.0
87.5°	2.3	1.2	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°	5168.9	5168.9	5168.9	5168.9	5168.9	5168.9	5168.9	5168.9	5168.9	5168.9	5168.9
2.5°	4278.5	4330.8	4233.3	4235.6	4154.8	4181.0	4085.9	4116.8	4061.0	4103.7	4229.7
5°	3219.2	3231.1	3152.7	3127.7	3139.6	3188.4	3207.3	3120.6	3157.4	3084.9	3080.2
7.5°	2268.2	2282.4	2237.3	2231.4	2317.0	2296.8	2333.6	2244.5	2160.1	2196.9	2129.1
10°	1761.8	1702.3	1609.6	1583.5	1566.9	1577.5	1577.5	1496.7	1484.8	1452.7	1501.5
12.5°	1390.9	1318.3	1230.4	1111.5	1081.8	1079.4	1035.4	964.1	941.6	914.2	954.6
15°	1010.5	980.8	907.0	840.5	772.7	759.7	688.3	630.1	552.8	542.1	538.5
17.5°	710.9	666.9	665.7	627.7	588.4	562.3	495.7	429.2	399.4	395.9	395.9
20°	532.6	517.1	492.2	487.4	475.5	445.8	386.3	350.7	336.5	337.6	342.4
22.5°	448.2	437.5	414.9	404.2	399.4	373.3	329.3	305.5	298.4	298.4	299.6
25°	400.7	391.1	366.1	349.5	343.6	324.6	290.1	272.2	266.3	266.3	266.3
27.5°	365.0	353.1	326.9	312.7	301.9	280.5	259.2	241.3	235.4	235.4	236.5
30°	340.0	326.9	303.2	284.2	267.5	248.4	230.6	215.2	208.0	206.9	208.0
32.5°	306.7	294.8	271.1	259.2	240.1	217.5	203.3	189.0	181.9	183.1	181.9
35°	239.0	235.4	218.8	222.3	211.6	192.6	179.5	164.0	155.7	154.6	156.9
37.5°	217.5	203.3	184.2	185.4	181.9	174.8	153.4	136.7	130.8	130.8	131.9
40°	200.9	186.7	165.2	154.6	155.7	155.7	133.1	115.3	109.4	108.2	110.6
42.5°	186.7	172.3	148.6	130.8	126.0	131.9	112.9	95.1	89.2	86.8	89.2
45°	177.1	161.7	134.4	114.2	99.8	107.0	92.7	78.5	71.3	71.3	70.2
47.5°	167.6	153.4	123.6	98.7	83.2	79.6	76.1	63.0	55.9	54.7	55.9
50°	159.3	145.0	111.7	85.6	70.2	61.8	61.8	50.0	45.2	42.8	44.0
52.5°	151.0	135.5	101.1	76.1	60.6	50.0	44.0	40.4	36.9	35.6	36.9
55°	139.1	123.6	90.4	65.4	52.3	41.6	34.5	33.3	30.9	28.5	30.9
57.5°	124.8	110.6	79.6	55.9	41.6	32.1	28.5	27.3	25.0	23.8	23.8
59°	116.5	103.4	73.7	48.7	36.9	28.5	26.2	25.0	22.6	20.2	21.4
60°	111.7	101.1	70.2	45.2	33.3	26.2	23.8	22.6	20.2	19.0	20.2
62.5°	98.7	90.4	61.8	36.9	26.2	19.0	16.7	17.9	16.7	15.4	16.7
65°	86.8	79.6	52.3	28.5	20.2	13.1	11.9	15.4	14.3	13.1	14.3
67.5°	77.3	69.0	44.0	21.4	14.3	7.1	8.3	13.1	13.1	11.9	13.1
70°	66.6	59.4	35.6	15.4	7.1	3.6	6.0	9.5	11.9	10.7	11.9
72.5°	54.7	46.4	27.3	10.7	3.6	0.0	3.6	8.3	11.9	10.7	11.9
75°	42.8	34.5	20.2	6.0	0.0	0.0	1.2	7.1	11.9	10.7	11.9
77.5°	30.9	25.0	11.9	1.2	0.0	0.0	1.2	7.1	11.9	10.7	11.9
80°	20.2	17.9	4.8	0.0	0.0	0.0	1.2	7.1	11.9	11.9	13.1
82.5°	13.1	9.5	0.0	0.0	0.0	0.0	2.3	9.5	13.1	14.3	14.3
85°	6.0	0.0	0.0	0.0	0.0	0.0	4.8	11.9	15.4	15.4	15.4
87.5°	0.0	0.0	0.0	0.0	0.0	2.3	8.3	14.3	17.9	17.9	17.9
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°	5168.9	5168.9	5168.9	5168.9	5168.9	5168.9	5168.9	5168.9	5168.9	5168.9	5168.9
2.5°	4251.1	4326.0	4431.8	4594.6	4726.7	4934.7	5094.0	5311.6	5531.4	5598.1	5701.4
5°	3128.9	3225.2	3465.3	3684.1	3822.0	4261.8	4540.0	4978.6	5372.2	5561.2	5766.8
7.5°	2173.1	2287.2	2470.3	2775.8	3065.9	3423.7	3873.1	4374.8	4951.3	5221.2	5511.2
10°	1525.2	1667.9	1925.9	2176.7	2541.6	2881.6	3325.1	3879.1	4515.0	4833.6	5197.4
12.5°	962.9	1090.1	1431.3	1713.0	2168.4	2563.1	2972.0	3473.6	4210.7	4537.6	4919.2
15°	550.4	657.4	816.7	1178.1	1683.3	2205.2	2715.2	3297.7	4055.0	4457.9	4870.5
17.5°	410.1	438.6	510.0	714.5	1174.5	1784.4	2478.7	3244.2	4160.8	4633.9	5104.7
20°	344.8	363.8	397.1	477.9	748.9	1374.2	2248.0	3253.8	4503.1	5097.6	5544.5
22.5°	309.1	321.0	348.3	400.7	511.1	1001.0	1978.2	3309.6	4918.0	5667.0	6182.9
25°	271.1	286.5	310.3	355.5	425.6	694.3	1711.9	3434.4	5499.3	6389.7	6874.8
27.5°	241.3	255.6	279.4	321.0	373.3	530.2	1401.6	3541.4	6112.8	7117.3	7514.4
30°	211.6	225.9	249.6	282.9	330.5	429.2	1067.5	3604.4	6708.4	7663.0	7968.4
32.5°	186.7	198.5	221.1	250.9	290.1	363.8	841.6	3539.0	7163.7	8158.7	8363.1
35°	161.7	175.9	195.0	222.3	256.7	310.3	700.2	3313.2	7554.8	8668.7	8742.4
37.5°	135.5	152.1	172.3	197.3	224.6	285.3	562.3	3063.5	7973.2	9304.7	9183.4
40°	114.2	129.6	148.6	175.9	200.9	261.5	432.7	2797.2	8425.0	9901.4	9664.9
42.5°	92.7	109.4	131.9	156.9	198.5	228.2	335.2	2521.4	8830.4	10420.9	10100.0
45°	73.7	88.0	111.7	143.8	197.3	196.1	259.2	2249.2	9135.9	10791.9	10424.5
47.5°	58.3	70.2	93.9	140.3	181.9	166.5	208.0	2080.4	9456.8	11125.9	10673.0
50°	46.4	58.3	80.8	146.2	159.3	142.7	174.8	2107.8	9767.1	11295.9	10775.2
52.5°	39.2	51.1	70.2	115.3	122.5	124.8	153.4	2233.7	10167.7	11477.8	10978.5
55°	34.5	45.2	59.4	80.8	95.1	111.7	140.3	2325.3	10703.8	11867.7	11426.6
57.5°	27.3	39.2	53.5	69.0	78.5	97.5	129.6	2332.4	11188.9	12368.2	12022.3
59°	25.0	35.6	50.0	65.4	70.2	88.0	122.5	2271.8	11206.8	12443.0	12295.7
60°	22.6	34.5	47.5	60.6	66.6	83.2	116.5	2201.6	11045.1	12324.2	12408.6
62.5°	19.0	29.8	41.6	48.7	57.1	69.0	101.1	1947.2	10261.7	11785.7	12199.4
65°	16.7	26.2	35.6	40.4	47.5	59.4	89.2	1558.5	9396.2	11055.7	11600.2
67.5°	15.4	23.8	30.9	34.5	41.6	54.7	79.6	1100.8	8275.2	10129.7	10700.3
70°	14.3	22.6	27.3	32.1	36.9	46.4	67.7	642.0	6374.3	8505.8	9108.6
72.5°	14.3	21.4	23.8	27.3	32.1	41.6	63.0	347.1	4358.1	6488.4	7267.1
75°	14.3	20.2	21.4	23.8	28.5	38.1	55.9	181.9	2817.5	4507.9	5563.5
77.5°	14.3	19.0	21.4	22.6	27.3	33.3	48.7	114.2	1877.1	3157.4	3760.1
80°	15.4	19.0	20.2	22.6	26.2	30.9	40.4	76.1	1103.2	1899.7	2288.4
82.5°	16.7	19.0	21.4	23.8	27.3	29.8	35.6	47.5	508.8	1256.6	1421.8
85°	17.9	20.2	22.6	25.0	28.5	29.8	33.3	34.5	83.2	567.0	766.8
87.5°	19.0	21.4	23.8	26.2	30.9	30.9	30.9	30.9	28.5	60.6	154.6
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: P646900  
 CATALOG NUMBER: GALN-SA4C-835-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5168.9	5168.9	5168.9	5168.9	5168.9	5168.9	5168.9	5168.9	5168.9	5168.9
2.5°	5832.2	5966.5	6060.5	6084.2	6016.5	5985.6	5900.0	5766.8	5686.0	5682.4
5°	6146.1	6461.1	6679.9	6716.7	6585.9	6364.8	6102.1	5763.3	5564.7	5505.3
7.5°	6092.5	6644.1	6996.0	7047.2	6827.2	6405.2	5896.4	5350.8	5134.4	5042.8
10°	5872.7	6545.5	7048.3	7129.2	6835.6	6241.1	5594.5	4985.8	4717.1	4646.9
12.5°	5684.8	6364.8	6811.8	6923.5	6701.2	6108.0	5413.7	4751.6	4463.9	4398.5
15°	5602.8	6150.8	6424.2	6481.3	6444.4	6024.8	5394.7	4715.9	4386.7	4315.3
17.5°	5684.8	5968.9	6003.4	6061.7	6143.7	6016.5	5577.8	4909.7	4554.2	4466.3
20°	5900.0	5810.8	5668.1	5693.1	5881.0	6050.9	5903.5	5338.9	4906.1	4812.2
22.5°	6266.1	5771.6	5448.3	5426.8	5664.6	6166.3	6381.4	5920.2	5418.5	5325.8
25°	6715.5	5870.2	5367.4	5321.0	5580.2	6335.1	6901.0	6632.2	6084.2	5942.7
27.5°	7205.2	6074.7	5367.4	5322.2	5573.1	6484.9	7345.6	7262.3	6773.7	6619.2
30°	7474.0	6243.6	5444.7	5393.5	5661.0	6571.6	7583.3	7822.2	7292.1	7100.6
32.5°	7714.0	6477.8	5595.6	5499.3	5845.3	6700.1	7796.1	8297.8	7704.6	7576.2
35°	7935.2	6728.6	5803.7	5691.9	6087.8	6876.0	8031.5	8797.1	8278.7	8084.9
37.5°	8178.9	7019.8	6128.2	6033.1	6493.2	7218.3	8310.8	9453.2	8843.4	8599.7
40°	8444.0	7357.5	6662.0	6621.6	7137.5	7605.9	8663.9	10153.5	9487.8	9210.7
42.5°	8713.9	7746.1	7315.8	7382.4	7867.4	8149.2	9026.5	10692.0	10015.6	9710.1
45°	8958.8	8243.1	8165.8	8495.1	8718.6	8679.4	9295.1	11071.2	10475.6	10183.2
47.5°	9267.8	8967.1	9194.1	9701.8	9707.7	9255.9	9498.4	11381.5	10871.5	10579.0
50°	9613.8	9821.8	10522.0	11039.1	10900.1	9823.0	9736.2	11748.8	11280.4	11046.3
52.5°	10014.4	10778.8	11748.8	12323.0	11998.5	10441.1	10132.1	12145.9	11929.6	11704.8
55°	10480.4	11431.4	12972.1	13429.8	13102.9	11209.1	10733.6	12684.4	12663.0	12509.7
57.5°	11007.0	12120.9	13680.7	14300.0	14008.7	12110.2	11574.1	13192.0	13111.2	13025.6
59°	11423.1	12475.1	13993.3	14635.2	14459.3	12741.4	12138.8	13508.2	13214.6	13086.2
60°	11675.2	12715.3	14108.6	14680.4	14640.0	13117.1	12496.6	13662.8	13213.4	13035.1
62.5°	12422.8	13135.0	14064.6	14479.5	14637.6	13837.6	13546.3	13832.8	12968.5	12707.0
65°	12689.1	12995.8	13335.9	13284.8	13420.3	13800.7	14216.8	13646.1	12445.5	12073.4
67.5°	12170.9	11470.6	11590.7	11249.5	11183.0	12269.5	13944.5	12733.1	11421.9	10966.6
70°	10259.3	8787.5	8726.9	8883.8	8453.5	9933.5	12521.6	10974.9	9732.6	9216.7
72.5°	8075.5	6210.3	5699.1	6276.8	6263.8	7578.6	10401.9	7787.8	6575.2	6531.2
75°	6350.5	4323.6	3794.7	3888.5	4069.3	5486.2	8284.7	4945.3	4049.0	3690.0
77.5°	4263.0	3063.5	2857.9	2742.5	2937.5	3522.4	5241.4	2681.9	2270.6	2150.5
80°	2457.2	2225.4	2527.4	2294.3	2399.0	2219.5	2607.0	1230.4	1021.2	1105.6
82.5°	1598.9	1267.3	1350.4	1003.3	1371.9	1383.7	836.9	363.8	307.9	326.9
85°	999.8	594.4	334.0	237.8	473.2	870.2	261.5	22.6	26.2	22.6
87.5°	259.2	98.7	41.6	61.8	76.1	67.7	60.6	3.6	1.2	2.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)