

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: P646839

Luminaire Tested: **GALN-SA3C-835-U-SLL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646839  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3C-835-U-SLL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9085.2 lumens  
Efficiency: N/A  
Efficacy: 56.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G1

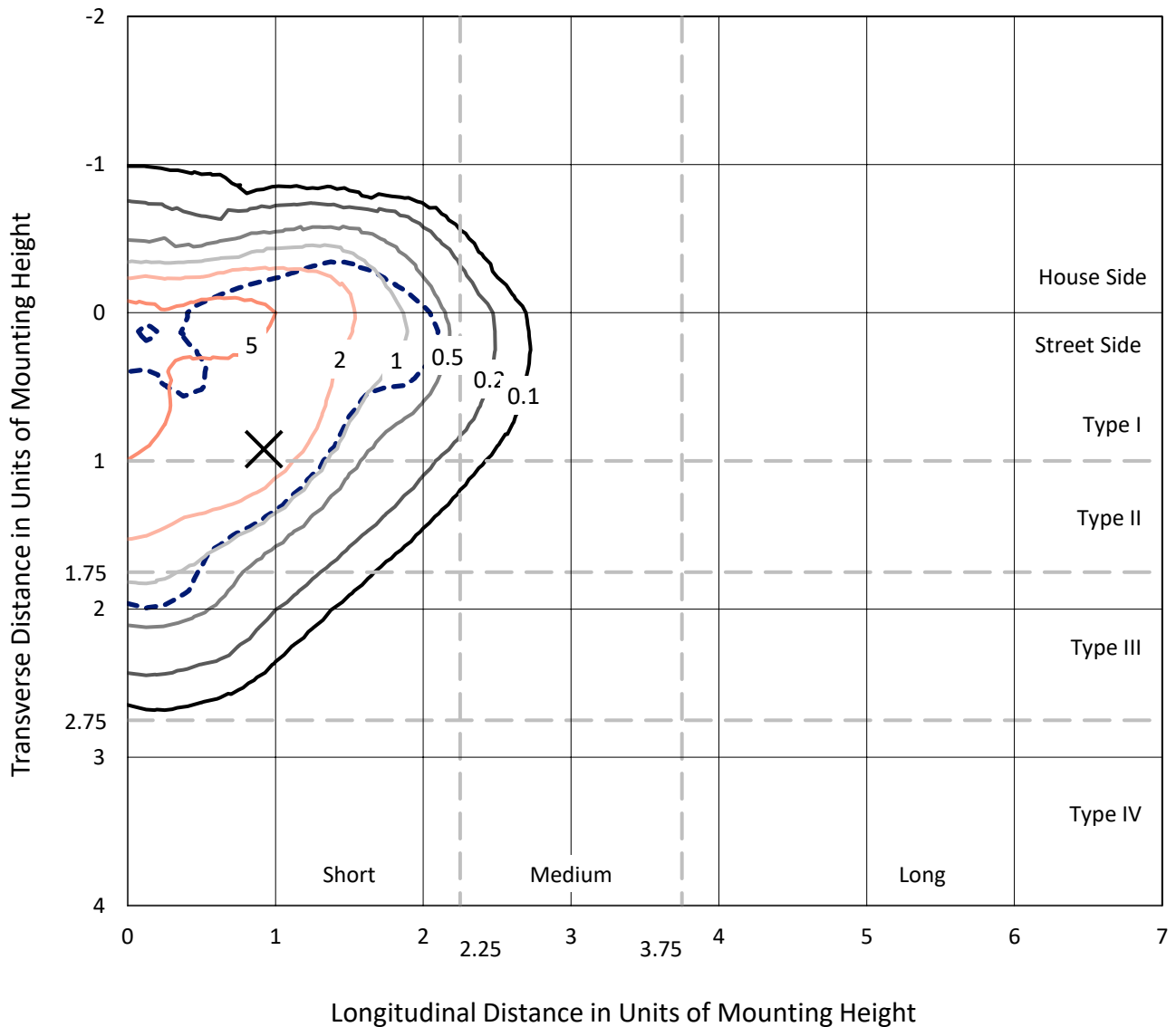
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

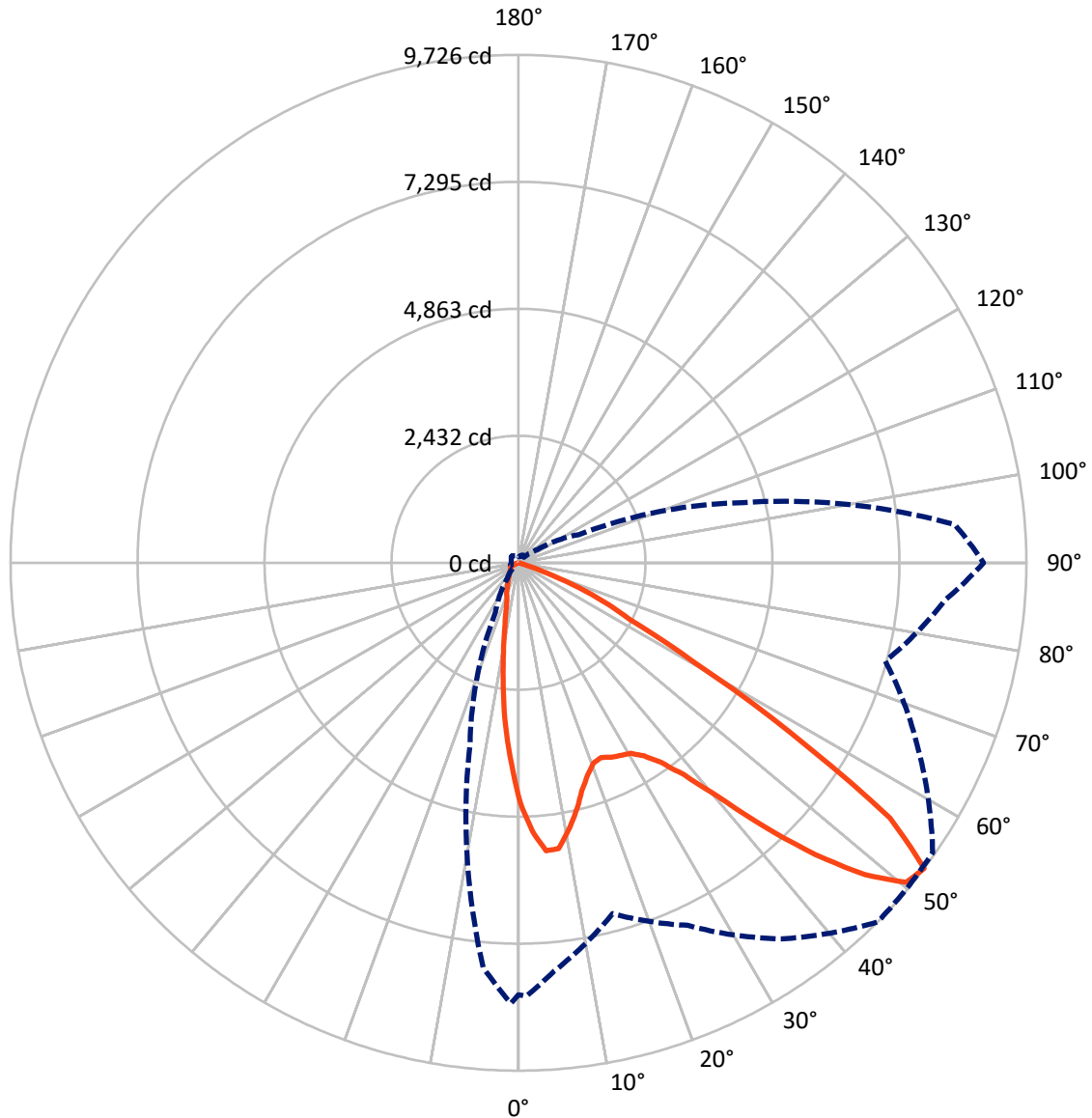
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 52.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1843.8	0.0	1843.8
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	7241.3	0.0	7241.3
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	9085.2	0.0	9085.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	336.0	3.7
10°-20°	662.8	7.3
20°-30°	1008.7	11.1
30°-40°	1507.6	16.6
40°-50°	2147.0	23.6
50°-60°	2307.9	25.4
60°-70°	1022.7	11.3
70°-80°	82.8	0.9
80°-90°	9.6	0.1
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°	9085.2	100.0
0°-180°	9085.2	100.0

**Coefficient of Utilization**



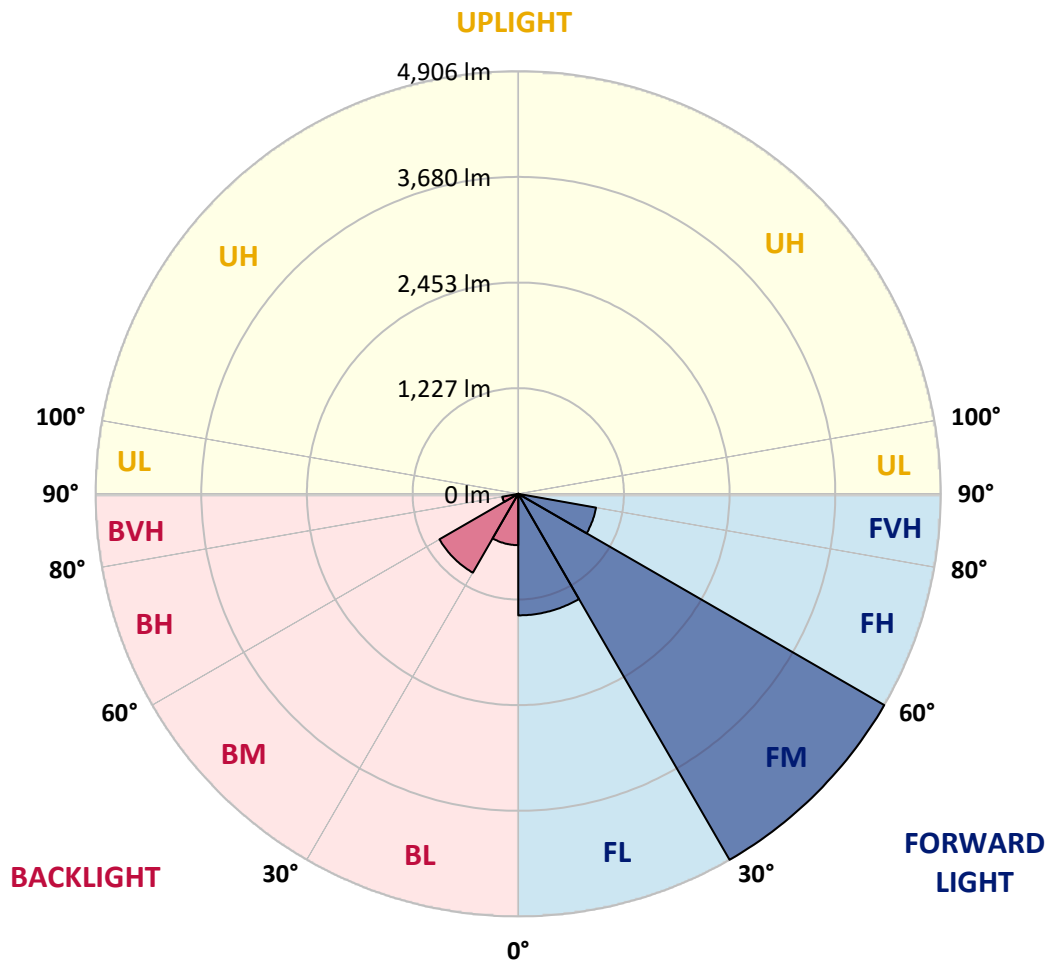
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1411.1	15.5			
FM (30°-60°)	4906.3	54.0			
FH (60°-80°)	916.8	10.1			G1/1800
FVH (80°-90°)	7.1	0.1			G0/10
BL (0°-30°)	596.4	6.6	B2/1000		
BM (30°-60°)	1056.3	11.6	B2/2500		
BH (60°-80°)	188.7	2.1	B1/500		G1/500
BVH (80°-90°)	2.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4606.6	4606.6	4606.6	4606.6	4606.6	4606.6	4606.6	4606.6	4606.6	4606.6	4606.6
2.5°	4874.6	4888.9	4967.5	5065.9	5117.6	5235.6	5153.4	5174.8	5130.1	4972.9	4849.6
5°	4726.3	4724.5	4824.6	5067.6	5298.1	5532.2	5539.3	5414.3	5194.5	4953.3	4608.3
7.5°	4279.6	4349.3	4452.9	4840.7	5267.7	5442.9	5526.8	5380.3	5042.6	4697.7	4324.3
10°	3941.9	3977.6	4152.7	4620.9	4933.6	5167.6	5219.5	5135.5	4876.4	4445.8	4027.7
12.5°	3747.1	3765.0	3970.4	4363.6	4694.2	4867.4	4892.5	4931.8	4746.0	4342.1	3840.0
15°	3748.9	3763.2	4040.1	4368.9	4499.4	4452.9	4535.1	4533.3	4613.7	4322.5	3997.3
17.5°	4018.7	4034.8	4285.0	4447.6	4390.4	4281.4	4276.0	4358.2	4527.9	4567.3	4234.9
20°	4483.3	4520.8	4704.9	4696.0	4374.3	4154.5	4093.8	4156.3	4551.2	4774.6	4713.8
22.5°	5108.7	5160.5	5289.2	5042.6	4447.6	4068.7	4049.0	4170.6	4704.9	5237.3	5257.0
25°	5834.2	5921.8	5984.3	5668.0	4708.4	4217.1	4124.1	4333.2	4912.2	5739.5	5948.5
27.5°	6314.9	6406.0	6391.7	5939.6	4883.6	4256.4	4177.8	4372.5	5092.6	5859.2	6309.5
30°	6690.1	6745.5	6845.5	6086.1	5058.6	4367.2	4233.1	4538.7	5151.6	6066.4	6745.5
32.5°	7127.9	7165.4	7172.6	6345.2	5328.5	4506.6	4404.7	4746.0	5412.5	6264.9	7131.5
35°	7569.3	7624.6	7508.5	6665.1	5494.7	4765.7	4690.6	5105.2	5621.5	6470.3	7556.7
37.5°	8048.1	8076.7	7808.7	6797.3	5732.3	5187.3	5146.3	5492.9	5984.3	6842.0	8028.5
40°	8450.2	8477.0	8128.6	6959.9	5982.5	5777.0	5882.4	6232.7	6477.4	7083.3	8264.3
42.5°	8673.5	8736.1	8235.8	6870.6	6484.6	6445.3	6913.5	7036.7	7049.3	7151.1	8475.2
45°	8734.3	8705.7	8058.9	6943.9	6924.1	7544.2	7969.5	8132.1	7617.5	7276.2	8528.8
47.5°	8453.7	8491.3	7798.0	6879.5	7501.4	8376.9	8927.3	9229.3	8041.0	7167.2	8396.6
50°	8226.8	8178.6	7714.0	6833.1	7656.8	8770.1	9618.8	9686.7	8430.6	7301.2	8251.8
52.5°	8271.5	8301.8	7848.0	6956.3	7660.4	8793.2	9726.0	9679.5	8443.0	7270.9	8200.0
55°	8366.2	8232.1	7790.8	6684.7	7147.5	8144.6	8632.4	8561.0	7792.6	6947.4	8073.1
57.5°	7219.0	7426.3	7163.6	5968.2	5866.3	6136.1	6127.2	6347.0	5812.8	5978.9	7349.5
60°	5859.2	5895.0	5993.2	5105.2	4059.8	3966.9	3838.3	3698.9	3911.5	5112.3	6684.7
62.5°	5153.4	5110.5	5460.7	4644.1	2866.2	2399.8	2378.4	2464.1	3018.1	4876.4	6270.2
65°	3745.3	3798.9	4052.7	3604.1	2151.4	1831.6	1799.4	2053.1	2442.6	3908.0	4785.3
67.5°	2287.2	2390.9	2414.1	2222.9	1459.9	1159.7	1113.2	1343.7	1763.6	2528.5	2805.4
70°	1056.0	1181.2	1299.1	1213.3	845.2	477.1	450.3	564.6	889.9	1454.5	1488.5
72.5°	319.9	321.7	450.3	470.0	273.4	107.2	94.7	125.0	302.0	480.7	505.7
75°	23.3	25.0	60.8	69.7	51.8	26.8	28.6	34.0	64.4	107.2	80.4
77.5°	1.8	1.8	1.8	8.9	16.1	17.9	23.3	26.8	34.0	39.3	35.7
80°	1.8	0.0	1.8	7.1	12.5	17.9	21.5	25.0	26.8	30.4	26.8
82.5°	0.0	0.0	0.0	5.3	12.5	17.9	19.7	26.8	30.4	35.7	30.4
85°	0.0	0.0	0.0	5.3	12.5	19.7	17.9	8.9	0.0	0.0	0.0
87.5°	0.0	0.0	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°	4606.6	4606.6	4606.6	4606.6	4606.6	4606.6	4606.6	4606.6	4606.6	4606.6	4606.6
2.5°	4871.0	4801.4	4642.3	4561.9	4372.5	4345.7	4159.8	4129.5	4067.0	4033.0	3950.8
5°	4456.5	4372.5	4113.4	3895.4	3641.7	3464.8	3329.0	3205.7	3134.2	3068.1	3098.5
7.5°	4118.7	3874.0	3586.3	3221.7	2928.7	2739.3	2532.0	2362.2	2262.2	2194.3	2210.4
10°	3765.0	3605.9	3205.7	2796.5	2442.6	2308.7	2146.0	2015.6	1874.4	1752.9	1695.7
12.5°	3654.2	3418.3	2916.2	2499.9	2231.8	2101.4	1915.5	1765.4	1584.9	1436.6	1384.8
15°	3673.8	3446.9	2837.6	2392.6	2076.4	1851.2	1629.7	1443.8	1245.4	1141.8	1088.2
17.5°	3993.7	3600.5	2889.4	2280.1	1860.2	1547.4	1274.0	1038.2	889.9	782.7	759.4
20°	4386.8	3932.9	3000.2	2197.9	1683.2	1231.2	931.0	727.3	604.0	586.1	580.8
22.5°	4962.2	4476.2	3237.9	2142.4	1467.0	959.6	637.9	528.9	494.9	491.4	493.2
25°	5766.2	5156.9	3497.0	2096.0	1304.4	739.8	521.8	448.5	437.8	432.5	441.4
27.5°	6114.8	5567.9	3634.5	1995.9	1156.1	666.5	514.6	444.9	414.5	405.6	411.0
30°	6545.3	5841.3	3850.7	1824.4	938.1	548.6	480.7	484.2	470.0	425.2	411.0
32.5°	7117.2	6182.6	3959.7	1702.9	838.0	453.9	352.0	323.5	361.0	368.1	380.6
35°	7483.4	6529.3	4015.1	1631.5	786.2	387.7	298.4	271.6	262.7	264.5	271.6
37.5°	8164.3	6997.4	4084.8	1556.4	746.9	337.7	269.8	244.8	232.3	232.3	239.4
40°	8571.7	7369.1	4179.5	1515.3	707.6	307.3	244.8	223.4	212.7	212.7	216.2
42.5°	8673.5	7553.1	4147.4	1501.0	663.0	300.2	223.4	207.3	194.7	193.0	191.2
45°	8855.8	7833.7	4152.7	1484.9	616.5	273.4	210.9	193.0	175.1	173.4	171.6
47.5°	9055.9	8035.6	4163.4	1422.4	571.8	228.7	219.8	178.7	157.2	153.7	153.7
50°	8884.4	8196.4	4256.4	1359.8	514.6	185.8	216.2	168.0	139.4	134.0	135.8
52.5°	8905.8	8385.9	4452.9	1272.3	443.2	148.3	175.1	159.0	126.8	117.9	119.7
55°	8562.7	8185.7	4479.7	1179.4	346.6	114.4	134.0	139.4	107.2	103.7	103.7
57.5°	7370.9	6931.4	3952.6	956.0	228.7	94.7	96.5	121.5	92.9	89.3	91.1
60°	6307.7	5564.4	3180.6	630.8	143.0	75.0	69.7	123.3	82.2	80.4	85.7
62.5°	5750.2	4572.6	2412.3	391.3	98.3	57.2	48.2	100.1	71.5	71.5	78.6
65°	4154.5	3071.6	1402.7	205.5	69.7	44.7	35.7	57.2	59.0	60.8	64.4
67.5°	2573.1	1551.0	591.5	100.1	46.4	30.4	23.3	35.7	39.3	39.3	42.9
70°	1270.5	618.3	196.5	57.2	35.7	25.0	16.1	19.7	19.7	17.9	19.7
72.5°	393.1	185.8	50.0	35.7	25.0	16.1	8.9	7.1	3.6	0.0	1.8
75°	44.7	35.7	32.2	25.0	16.1	7.1	1.8	0.0	0.0	0.0	0.0
77.5°	26.8	30.4	30.4	25.0	16.1	5.3	0.0	0.0	0.0	0.0	0.0
80°	21.5	23.3	25.0	23.3	14.3	7.1	0.0	0.0	0.0	0.0	0.0
82.5°	26.8	30.4	34.0	30.4	19.7	8.9	3.6	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	5.3	1.8	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4606.6	4606.6	4606.6	4606.6	4606.6	4606.6	4606.6	4606.6	4606.6	4606.6	4606.6
2.5°	3916.9	3877.6	3932.9	3850.7	3848.9	3850.7	3827.5	3806.1	3840.0	3931.1	3940.1
5°	2989.5	3073.4	3100.2	3187.8	3139.6	3068.1	3082.4	3034.1	3152.0	3203.9	3162.8
7.5°	2176.4	2171.1	2351.5	2362.2	2385.5	2387.3	2383.7	2289.0	2192.5	2213.9	2278.3
10°	1688.6	1597.5	1685.0	1676.1	1733.2	1717.2	1740.5	1638.6	1672.5	1672.5	1713.6
12.5°	1375.9	1279.4	1263.3	1240.1	1263.3	1272.3	1281.2	1261.6	1318.7	1345.5	1374.1
15°	1050.7	997.1	982.8	938.1	945.2	970.3	991.7	1000.7	982.8	1023.9	1027.5
17.5°	763.0	761.2	770.2	768.4	761.2	755.8	754.0	730.9	723.7	727.3	741.6
20°	579.0	593.3	623.7	654.0	670.1	650.4	623.7	584.3	568.2	571.8	573.6
22.5°	494.9	516.4	557.5	591.5	607.5	571.8	523.6	489.6	482.5	480.7	478.9
25°	448.5	473.6	503.9	514.6	512.9	491.4	455.6	441.4	437.8	434.3	418.1
27.5°	423.5	432.5	437.8	450.3	455.6	441.4	432.5	411.0	407.4	407.4	396.7
30°	409.2	403.9	411.0	402.1	409.2	398.5	400.3	400.3	391.3	394.9	394.9
32.5°	380.6	382.4	382.4	364.5	369.9	357.4	369.9	380.6	382.4	384.2	398.5
35°	278.7	310.9	327.0	327.0	332.4	323.5	321.7	309.1	293.1	276.9	269.8
37.5°	244.8	257.3	278.7	291.3	300.2	293.1	276.9	257.3	248.4	241.2	234.1
40°	218.0	228.7	243.0	257.3	275.1	266.2	241.2	232.3	221.6	221.6	214.5
42.5°	196.5	201.9	210.9	232.3	252.0	234.1	216.2	209.1	203.7	201.9	200.1
45°	176.9	178.7	187.6	205.5	228.7	210.9	193.0	184.1	185.8	187.6	185.8
47.5°	159.0	162.6	168.0	189.4	203.7	194.7	175.1	169.8	169.8	169.8	171.6
50°	137.6	146.5	157.2	175.1	185.8	180.5	164.4	157.2	153.7	153.7	155.4
52.5°	123.3	130.4	144.8	166.2	180.5	171.6	155.4	144.8	137.6	135.8	139.4
55°	107.2	119.7	143.0	159.0	178.7	169.8	151.9	139.4	126.8	125.0	125.0
57.5°	96.5	116.1	137.6	157.2	173.4	166.2	151.9	135.8	119.7	117.9	117.9
60°	91.1	112.6	134.0	151.9	173.4	162.6	150.1	132.2	114.4	114.4	112.6
62.5°	85.7	105.4	126.8	144.8	166.2	157.2	144.8	126.8	109.0	109.0	105.4
65°	71.5	91.1	105.4	121.5	144.8	135.8	123.3	110.8	96.5	92.9	94.7
67.5°	50.0	62.6	76.8	92.9	107.2	103.7	98.3	89.3	76.8	75.0	73.3
70°	25.0	34.0	46.4	62.6	75.0	71.5	67.9	60.8	53.6	51.8	51.8
72.5°	3.6	10.7	19.7	28.6	39.3	41.1	39.3	37.5	35.7	34.0	35.7
75°	0.0	0.0	0.0	7.1	16.1	19.7	23.3	26.8	26.8	23.3	28.6
77.5°	0.0	0.0	0.0	0.0	1.8	8.9	17.9	23.3	28.6	25.0	34.0
80°	0.0	0.0	0.0	0.0	1.8	10.7	17.9	25.0	28.6	25.0	35.7
82.5°	0.0	0.0	0.0	0.0	1.8	12.5	17.9	23.3	26.8	25.0	32.2
85°	0.0	0.0	0.0	0.0	5.3	10.7	7.1	3.6	1.8	1.8	5.3
87.5°	0.0	0.0	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



REPORT NUMBER: P646839

CATALOG NUMBER: GALN-SA3C-835-U-SLL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4606.6	4606.6	4606.6	4606.6	4606.6	4606.6	4606.6	4606.6	4606.6	4606.6
2.5°	3990.1	4117.0	4252.8	4304.6	4465.4	4587.0	4669.1	4846.1	4872.8	4874.6
5°	3205.7	3270.0	3502.3	3611.3	3850.7	4036.6	4234.9	4520.8	4712.0	4726.3
7.5°	2278.3	2457.0	2555.2	2839.4	3134.2	3425.5	3720.3	4052.7	4274.2	4279.6
10°	1833.3	1949.5	2124.6	2337.3	2585.6	2882.2	3275.4	3661.3	3886.5	3941.9
12.5°	1476.0	1679.7	1879.8	2099.6	2289.0	2512.3	2935.9	3450.4	3636.3	3747.1
15°	1136.4	1322.3	1558.2	1815.5	2029.9	2328.3	2810.7	3398.7	3711.3	3748.9
17.5°	838.0	1004.2	1222.3	1465.2	1786.9	2210.4	2832.2	3661.3	3956.2	4018.7
20°	602.2	698.7	870.2	1152.6	1561.8	2072.8	2853.6	3927.6	4376.1	4483.3
22.5°	477.1	516.4	629.0	879.2	1309.8	1928.1	3005.5	4436.9	4953.3	5108.7
25°	414.5	436.0	489.6	693.3	1150.8	1913.7	3248.6	5047.9	5721.6	5834.2
27.5°	400.3	403.9	450.3	636.1	1065.0	1819.1	3341.5	5482.2	6200.5	6314.9
30°	421.7	478.9	482.5	537.8	905.9	1631.5	3389.7	5902.1	6606.1	6690.1
32.5°	364.5	346.6	359.2	416.3	796.9	1522.5	3480.8	6268.4	7068.9	7127.9
35°	253.8	266.2	294.8	361.0	696.9	1408.1	3504.1	6672.3	7508.5	7569.3
37.5°	234.1	241.2	264.5	307.3	612.9	1343.7	3471.9	6967.1	7964.1	8048.1
40°	218.0	226.9	239.4	278.7	550.4	1272.3	3427.3	7233.4	8242.9	8450.2
42.5°	205.5	212.7	223.4	266.2	496.7	1200.8	3364.7	7608.6	8493.0	8673.5
45°	191.2	201.9	214.5	259.1	466.4	1152.6	3318.3	7585.3	8637.8	8734.3
47.5°	176.9	194.7	209.1	241.2	457.4	1129.3	3337.9	7497.8	8519.9	8453.7
50°	162.6	185.8	210.9	200.1	436.0	1082.9	3361.1	7617.5	8239.4	8226.8
52.5°	150.1	176.9	196.5	164.4	387.7	1038.2	3586.3	7774.7	8437.7	8271.5
55°	132.2	159.0	157.2	132.2	314.5	1004.2	3763.2	7778.3	8303.6	8366.2
57.5°	119.7	141.2	123.3	110.8	232.3	839.8	3475.5	6522.2	7108.2	7219.0
60°	110.8	137.6	92.9	87.5	151.9	605.7	3034.1	5051.5	5650.1	5859.2
62.5°	101.9	130.4	73.3	71.5	105.4	430.6	2494.5	4227.8	4869.2	5153.4
65°	89.3	92.9	59.0	55.4	75.0	232.3	1518.9	2910.8	3639.9	3745.3
67.5°	73.3	71.5	48.2	44.7	50.0	112.6	670.1	1458.1	2110.3	2287.2
70°	59.0	59.0	41.1	35.7	35.7	51.8	175.1	580.8	954.2	1056.0
72.5°	42.9	44.7	32.2	28.6	26.8	25.0	28.6	116.1	250.2	319.9
75°	37.5	39.3	32.2	25.0	19.7	16.1	12.5	10.7	14.3	23.3
77.5°	41.1	41.1	34.0	23.3	17.9	12.5	7.1	3.6	3.6	1.8
80°	51.8	53.6	44.7	30.4	21.5	14.3	8.9	3.6	1.8	1.8
82.5°	55.4	60.8	50.0	37.5	26.8	16.1	8.9	1.8	0.0	0.0
85°	14.3	23.3	39.3	34.0	26.8	16.1	8.9	1.8	0.0	0.0
87.5°	0.0	1.8	5.3	5.3	7.1	7.1	5.3	1.8	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

(END OF REPORT)