

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: P648548

Luminaire Tested: **GALN-SA7B-835-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648548  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7B-835-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17156.3 lumens  
Efficiency: N/A  
Efficacy: 60.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G1

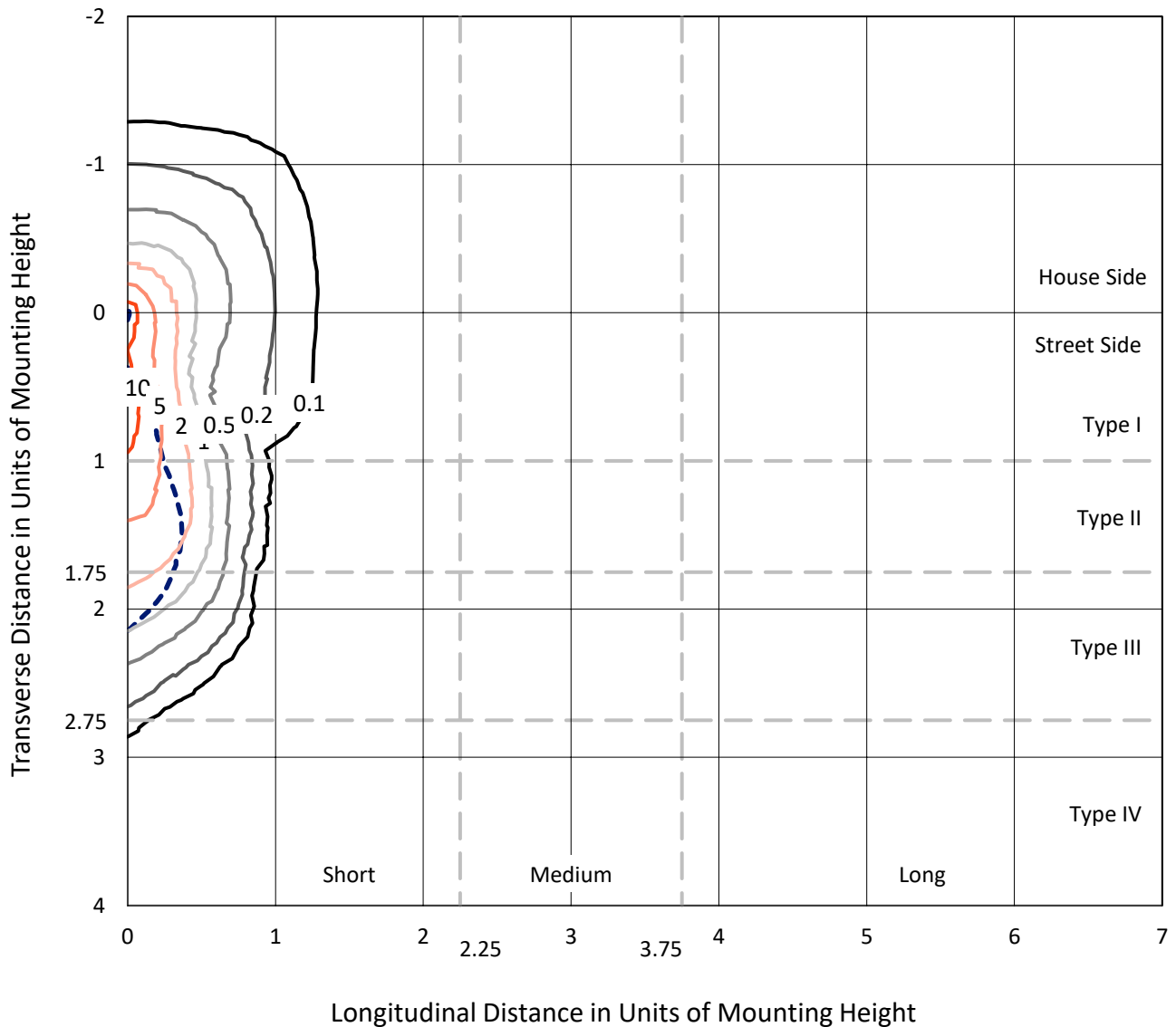
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P648548  
 CATALOG NUMBER: GALN-SA7B-835-U-SLR-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

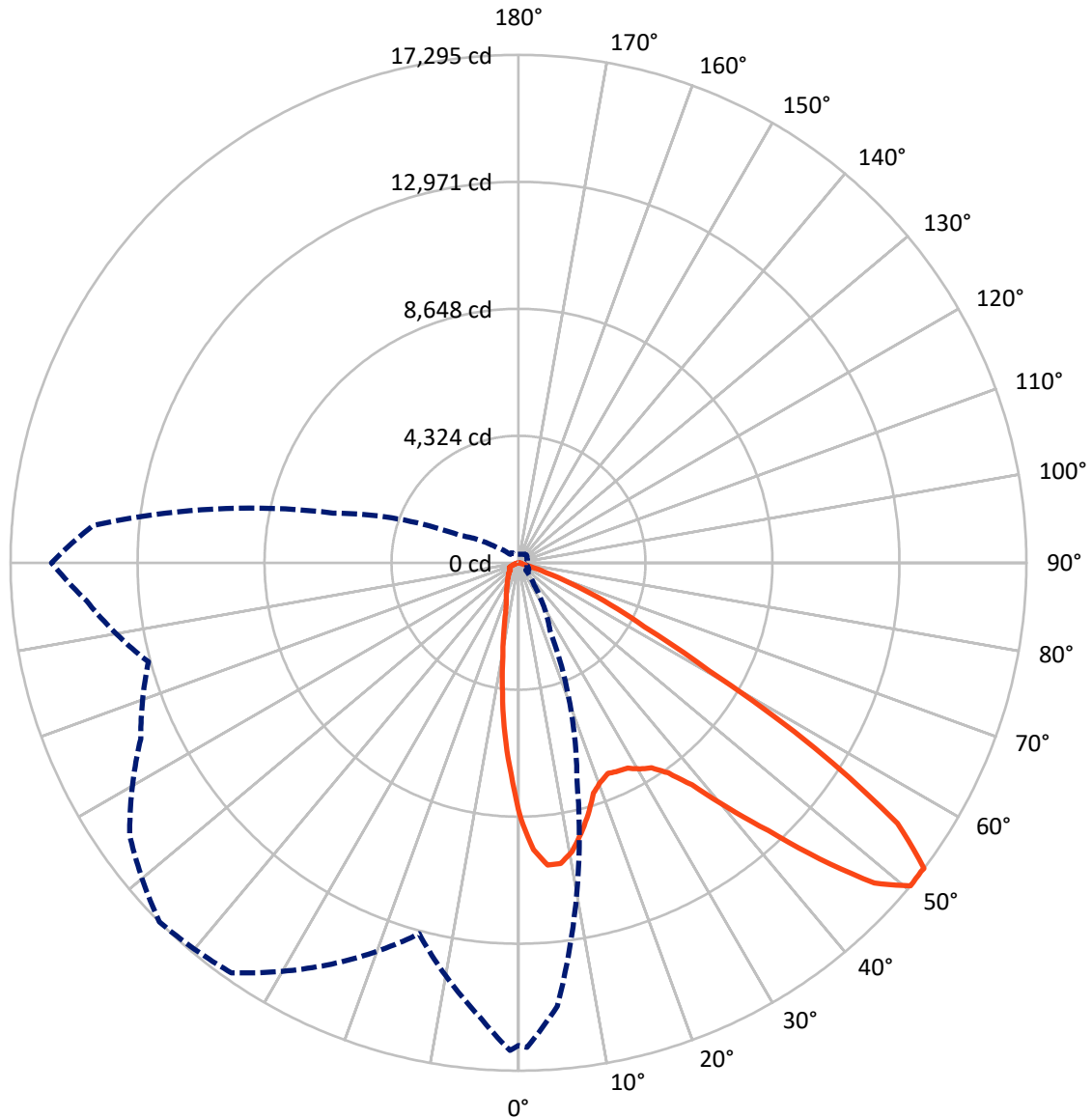
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc  
 Type III - Short - N/A

REPORT NUMBER: P648548  
CATALOG NUMBER: GALN-SA7B-835-U-SLR-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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 CATALOG NUMBER: GALN-SA7B-835-U-SLR-GRSBK

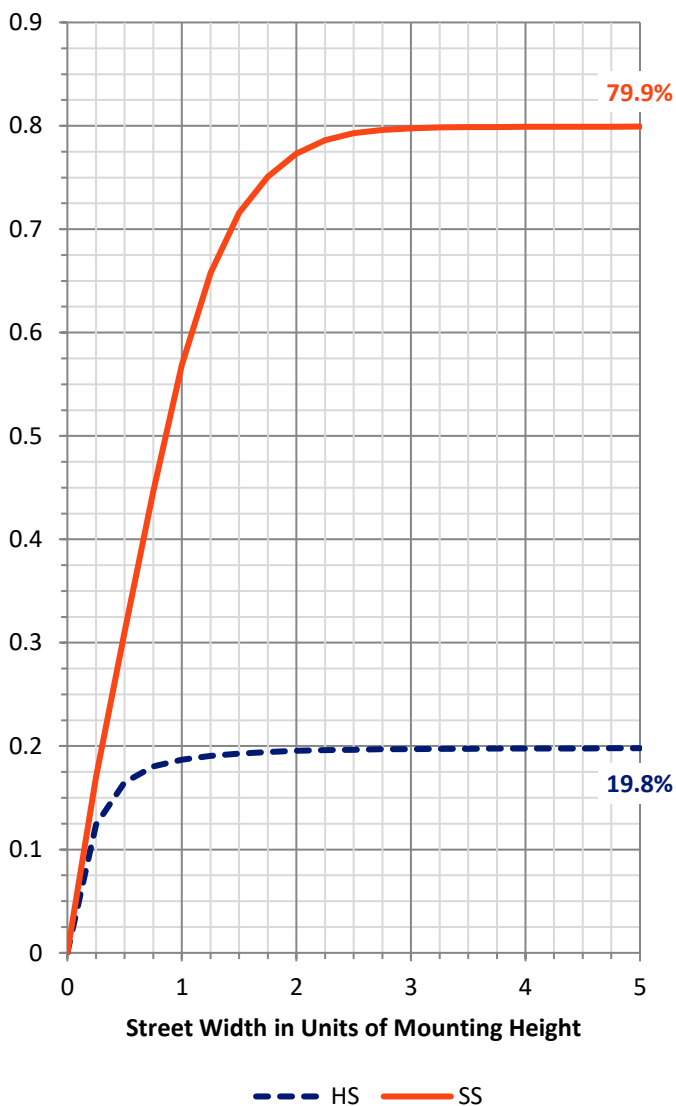
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3436.4	0.0	3436.4
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	13719.9	0.0	13719.9
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	17156.3	0.0	17156.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	634.2	3.7
10°-20°	1260.4	7.3
20°-30°	1893.5	11.0
30°-40°	2842.1	16.6
40°-50°	3994.3	23.3
50°-60°	4308.6	25.1
60°-70°	2000.4	11.7
70°-80°	188.2	1.1
80°-90°	34.7	0.2
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°	17156.3	100.0
0°-180°	17156.3	100.0

**Coefficient of Utilization**



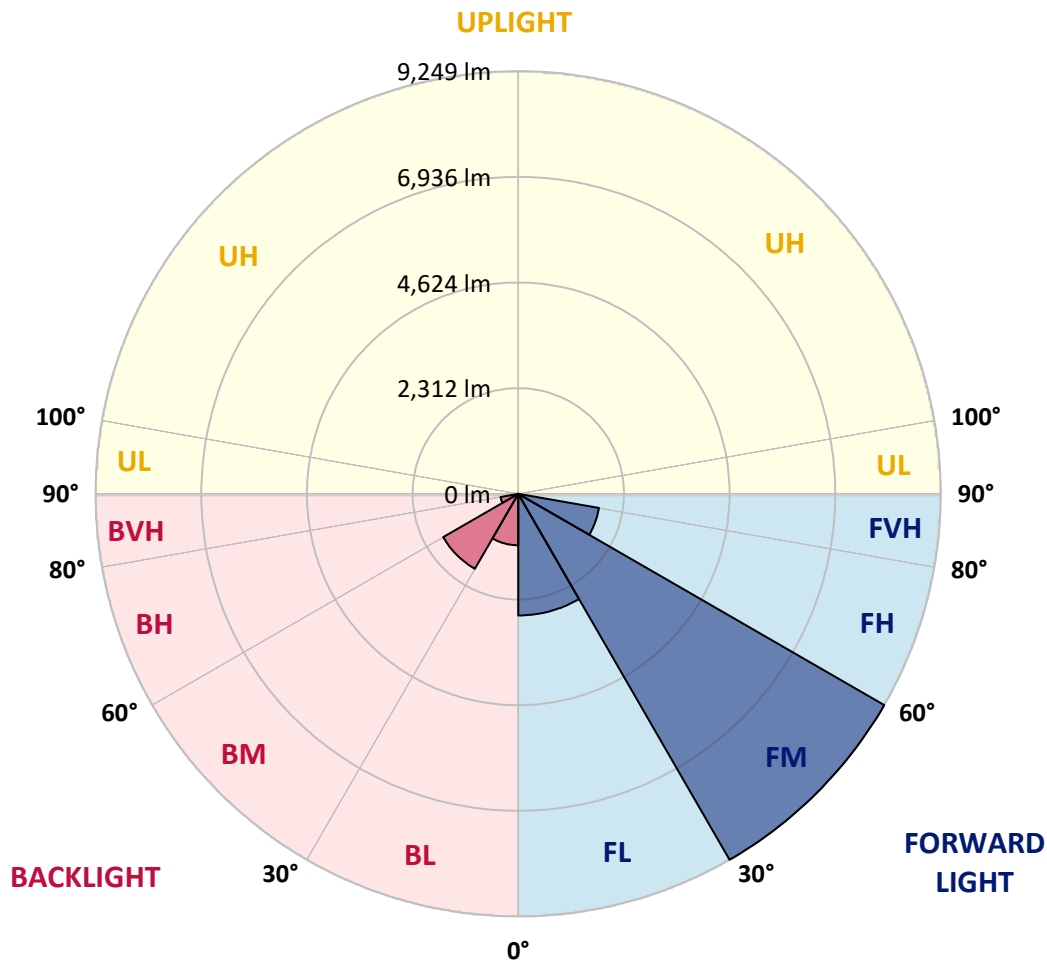
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 CATALOG NUMBER: GALN-SA7B-835-U-SLR-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2661.7	15.5			
FM (30°-60°)	9248.5	53.9			
FH (60°-80°)	1794.1	10.5			G1/1800
FVH (80°-90°)	15.6	0.1			G1/100
BL (0°-30°)	1126.4	6.6	B3/2500		
BM (30°-60°)	1896.4	11.1	B2/2500		
BH (60°-80°)	394.6	2.3	B1/500		G1/500
BVH (80°-90°)	19.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type III Short





REPORT NUMBER: P648548

CATALOG NUMBER: GALN-SA7B-835-U-SLR-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8700.4	8700.4	8700.4	8700.4	8700.4	8700.4	8700.4	8700.4	8700.4	8700.4	8700.4
2.5°	9044.2	8904.7	8727.6	8581.3	8363.5	7924.4	7805.2	7662.2	7543.1	7383.1	7158.4
5°	8223.8	8179.6	8097.9	7546.5	7148.2	6617.2	6181.6	5997.7	5756.0	5558.6	5415.6
7.5°	7597.5	7420.6	7161.9	6607.0	5970.5	5402.0	4918.6	4636.1	4316.1	4207.2	4013.2
10°	6927.0	6967.8	6586.6	5807.1	5037.8	4578.3	4278.7	4006.4	3717.1	3526.5	3250.7
12.5°	6712.5	6579.8	6287.0	5323.7	4666.8	4237.9	3873.7	3536.7	3230.3	2924.0	2658.4
15°	6852.1	6647.8	6239.4	5221.6	4380.8	3846.4	3390.3	2934.2	2651.6	2260.2	1984.5
17.5°	7352.4	7189.0	6641.0	5330.5	4234.5	3472.0	2794.6	2324.9	1892.6	1538.6	1399.0
20°	8186.4	7955.0	7267.3	5470.1	4016.6	3019.2	2267.0	1688.3	1279.9	1130.1	1051.8
22.5°	9003.3	8877.4	8009.4	5739.0	3822.6	2617.6	1701.9	1136.9	956.5	929.3	878.2
25°	10559.0	10181.1	9142.9	6225.8	3672.8	2239.8	1283.3	915.6	810.2	789.7	796.5
27.5°	11484.8	11168.2	10191.3	6549.2	3506.0	1950.5	1085.9	840.8	769.3	725.1	708.0
30°	12373.3	12005.6	10712.1	6739.8	3148.6	1644.1	963.3	806.7	789.7	725.1	704.6
32.5°	13057.5	12696.6	11464.4	7025.7	3002.3	1446.7	793.1	629.7	585.4	578.6	639.9
35°	14105.8	13721.2	12107.8	7182.3	2889.9	1344.6	687.6	561.6	510.6	490.2	493.6
37.5°	15082.8	14820.6	12703.4	7243.5	2770.8	1313.9	616.1	503.8	459.5	445.9	442.5
40°	15899.7	15314.2	13268.5	7308.2	2719.8	1256.0	571.8	459.5	428.9	408.5	408.5
42.5°	16274.1	15678.5	13901.6	7270.8	2706.1	1164.2	571.8	422.1	398.2	377.8	374.4
45°	16192.4	15950.7	14184.1	7253.7	2706.1	1072.2	520.8	411.9	377.8	350.6	343.8
47.5°	16403.5	16086.9	14538.1	7325.2	2651.6	1007.6	439.1	432.3	357.4	323.4	316.6
50°	16440.9	16502.2	15154.3	7696.3	2532.5	925.9	343.8	425.5	343.8	292.8	286.0
52°	16686.0	16304.8	15341.5	7893.7	2406.6	864.6	289.3	364.3	330.2	272.3	265.5
52.5°	16349.0	16597.5	15385.7	7965.1	2420.2	823.7	279.1	357.4	323.4	272.3	255.3
55°	15971.2	16209.4	15205.3	8118.4	2219.3	646.8	217.8	258.7	292.8	238.3	228.1
57.5°	13881.2	14122.9	13214.0	7434.2	1807.5	456.1	180.4	194.0	258.7	221.3	211.0
60°	12339.2	12165.6	11089.9	6201.9	1283.3	255.3	143.0	149.8	282.5	204.2	200.8
62.5°	11277.2	10906.2	9268.8	4789.3	782.9	170.2	112.4	115.7	217.8	190.6	190.6
65°	8343.0	7927.7	6157.7	2896.7	384.6	119.2	85.1	91.9	136.2	163.4	163.4
67.5°	4762.0	4602.1	2975.0	1307.1	160.0	74.9	64.7	71.5	105.5	132.7	125.9
70°	2188.7	1964.1	1143.7	275.7	74.9	51.1	51.1	57.9	85.1	98.7	91.9
72.5°	639.9	605.9	279.1	44.2	30.6	30.6	34.1	44.2	64.7	74.9	68.0
75°	47.7	30.6	20.4	13.6	13.6	20.4	27.2	44.2	64.7	71.5	57.9
77.5°	3.4	6.8	3.4	3.4	10.2	20.4	30.6	54.5	85.1	88.5	64.7
80°	3.4	3.4	0.0	3.4	10.2	20.4	34.1	61.3	95.3	102.1	54.5
82.5°	0.0	0.0	0.0	3.4	13.6	27.2	40.9	64.7	88.5	108.9	57.9
85°	0.0	0.0	0.0	3.4	20.4	37.4	47.7	17.0	10.2	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



REPORT NUMBER: P648548

CATALOG NUMBER: GALN-SA7B-835-U-SLR-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8700.4	8700.4	8700.4	8700.4	8700.4	8700.4	8700.4	8700.4	8700.4	8700.4	8700.4
2.5°	7318.4	7229.9	7195.8	7226.5	7216.3	7206.1	7393.3	7352.4	7345.6	7406.9	7393.3
5°	5493.9	5337.3	5766.2	5592.7	5773.1	5882.0	5902.4	5912.6	6038.6	5905.8	6079.4
7.5°	3914.5	3955.3	3952.0	4067.7	4275.3	4459.1	4568.0	4483.0	4476.2	4459.1	4384.3
10°	3128.2	3056.8	3043.1	3015.9	3080.6	3237.2	3369.9	3264.3	3189.5	3291.6	3261.0
12.5°	2556.3	2457.6	2403.2	2294.3	2297.6	2403.2	2403.2	2403.2	2478.0	2535.9	2580.1
15°	1960.6	1879.0	1879.0	1770.0	1746.2	1749.6	1804.1	1810.9	1930.0	1964.1	1981.1
17.5°	1371.8	1327.5	1378.5	1422.9	1395.6	1402.4	1422.9	1429.7	1446.7	1433.0	1467.1
20°	1055.2	1048.4	1062.1	1140.3	1198.1	1232.2	1208.4	1174.3	1153.9	1106.3	1106.3
22.5°	895.2	908.8	932.7	997.4	1072.2	1092.7	1065.4	987.1	925.9	919.1	922.5
25°	796.5	810.2	847.6	888.4	929.3	963.3	936.1	878.2	844.2	813.5	813.5
27.5°	735.2	742.0	762.5	793.1	827.2	854.4	844.2	813.5	776.1	762.5	731.9
30°	687.6	697.8	721.6	728.4	759.0	772.7	755.7	748.9	725.1	708.0	697.8
32.5°	663.7	660.4	677.4	684.2	687.6	697.8	677.4	687.6	684.2	656.9	646.8
35°	500.3	527.6	571.8	609.3	619.5	633.1	629.7	616.1	578.6	548.0	510.6
37.5°	449.3	466.4	490.2	520.8	561.6	578.6	571.8	537.8	493.6	473.2	466.4
40°	415.3	425.5	445.9	466.4	507.1	537.8	514.0	483.3	449.3	432.3	422.1
42.5°	384.6	388.1	398.2	418.7	449.3	497.0	456.1	415.3	401.7	391.4	384.6
45°	350.6	350.6	364.3	374.4	408.5	452.7	411.9	374.4	367.6	360.8	357.4
47.5°	323.4	326.7	333.6	347.2	374.4	405.0	377.8	347.2	330.2	326.7	319.9
50°	289.3	292.8	306.4	319.9	354.0	371.1	354.0	319.9	302.9	292.8	292.8
52°	262.1	272.3	286.0	313.1	337.0	364.3	343.8	306.4	286.0	275.7	268.9
52.5°	258.7	265.5	279.1	309.8	337.0	360.8	340.4	302.9	279.1	272.3	265.5
55°	231.5	241.7	265.5	302.9	333.6	360.8	333.6	299.6	265.5	248.5	241.7
57.5°	221.3	228.1	258.7	306.4	330.2	360.8	333.6	299.6	265.5	234.9	228.1
60°	211.0	224.6	258.7	296.1	326.7	364.3	337.0	296.1	258.7	221.3	221.3
62.5°	200.8	211.0	255.3	289.3	313.1	350.6	323.4	289.3	248.5	211.0	207.7
65°	173.6	190.6	224.6	241.7	268.9	302.9	275.7	251.9	217.8	187.2	183.8
67.5°	132.7	139.5	166.8	187.2	204.2	234.9	221.3	190.6	166.8	143.0	143.0
70°	91.9	98.7	119.2	129.4	146.3	163.4	153.2	129.4	112.4	98.7	95.3
72.5°	64.7	68.0	74.9	81.7	88.5	95.3	91.9	74.9	64.7	61.3	57.9
75°	51.1	57.9	61.3	57.9	54.5	51.1	51.1	44.2	37.4	34.1	34.1
77.5°	51.1	54.5	51.1	44.2	37.4	34.1	30.6	27.2	20.4	17.0	20.4
80°	44.2	44.2	44.2	37.4	34.1	30.6	27.2	23.8	20.4	17.0	17.0
82.5°	47.7	47.7	44.2	37.4	37.4	30.6	30.6	27.2	23.8	17.0	17.0
85°	0.0	0.0	0.0	6.8	17.0	30.6	30.6	27.2	23.8	20.4	20.4
87.5°	0.0	0.0	0.0	0.0	3.4	6.8	13.6	17.0	20.4	20.4	20.4
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°	8700.4	8700.4	8700.4	8700.4	8700.4	8700.4	8700.4	8700.4	8700.4	8700.4	8700.4
2.5°	7515.9	7645.2	7890.3	8135.4	8285.2	8462.1	8782.1	8952.3	9173.5	9282.5	9496.9
5°	6055.6	6362.0	6470.9	6749.9	7049.5	7349.1	7825.6	8349.8	8785.5	9085.1	9473.1
7.5°	4418.3	4489.8	4911.8	5099.1	5589.2	6133.9	6784.0	7444.4	7995.8	8486.0	8782.1
10°	3312.0	3574.1	3839.6	4197.0	4591.9	5153.5	5776.4	6504.9	7219.7	7709.9	8084.3
12.5°	2661.9	2869.5	3223.5	3608.1	4094.9	4465.9	5092.2	5813.9	6739.8	7219.7	7713.3
15°	2015.1	2280.6	2682.3	3080.6	3594.5	3986.0	4619.2	5528.0	6719.3	7379.7	7805.2
17.5°	1494.4	1674.8	2035.6	2481.5	3005.6	3557.1	4411.5	5497.4	6947.4	7733.7	8172.8
20°	1143.7	1205.0	1433.0	1831.3	2399.7	3121.4	4074.5	5630.1	7621.4	8594.9	9040.8
22.5°	925.9	953.1	1041.6	1317.3	1868.8	2740.2	3914.5	5722.0	8380.4	9626.3	10222.0
25°	806.7	799.9	857.8	976.9	1460.3	2382.7	3710.2	6069.2	9309.7	10838.1	11372.5
27.5°	735.2	735.2	762.5	847.6	1211.8	2151.3	3580.9	6317.6	10245.8	11903.5	12192.8
30°	697.8	704.6	782.9	810.2	1007.6	1875.5	3366.5	6569.5	11141.0	12584.3	12982.5
32.5°	646.8	619.5	602.5	670.6	847.6	1627.1	3152.0	6675.1	11866.1	13418.3	13758.6
35°	497.0	483.3	503.8	554.8	728.4	1416.1	2913.8	6794.2	12700.0	14385.0	14453.0
37.5°	449.3	445.9	459.5	503.8	612.7	1232.2	2743.6	6763.6	13336.5	15184.9	15001.0
40°	415.3	415.3	425.5	462.9	548.0	1102.9	2566.5	6736.4	13952.7	16083.5	15545.7
42.5°	388.1	388.1	405.0	428.9	520.8	1017.7	2433.8	6698.9	14470.1	16634.9	15865.7
45°	350.6	360.8	388.1	411.9	527.6	959.9	2335.1	6556.0	14647.0	16628.1	15712.5
47.5°	323.4	337.0	364.3	398.2	476.5	942.9	2267.0	6430.0	14585.8	16219.7	15232.6
50°	292.8	309.8	347.2	405.0	405.0	908.8	2195.5	6542.4	14541.6	15903.1	14773.0
52°	272.3	286.0	333.6	394.9	354.0	837.3	2151.3	6760.2	14722.0	15862.2	14568.7
52.5°	268.9	279.1	323.4	388.1	337.0	823.7	2120.7	6811.2	14779.8	15760.1	14708.3
55°	238.3	251.9	296.1	302.9	275.7	677.4	2021.9	6927.0	14493.9	15559.3	14575.5
57.5°	224.6	231.5	262.1	248.5	238.3	510.6	1739.4	6746.6	12873.6	13819.9	13561.2
60°	207.7	214.5	245.1	194.0	200.8	357.4	1307.1	5858.2	10337.7	11515.4	11981.8
62.5°	200.8	197.4	231.5	156.6	170.2	258.7	922.5	4762.0	7965.1	9479.9	10286.7
65°	177.0	173.6	166.8	132.7	146.3	200.8	551.5	3107.8	5613.1	7172.0	7614.6
67.5°	136.2	143.0	122.5	105.5	122.5	156.6	306.4	1392.2	2944.4	4302.6	4659.9
70°	95.3	102.1	98.7	91.9	108.9	129.4	177.0	476.5	1218.6	2260.2	2491.7
72.5°	57.9	71.5	74.9	78.3	95.3	112.4	125.9	153.2	323.4	799.9	993.9
75°	34.1	47.7	57.9	68.0	78.3	95.3	105.5	108.9	112.4	149.8	241.7
77.5°	23.8	34.1	51.1	64.7	78.3	95.3	112.4	119.2	112.4	105.5	112.4
80°	20.4	34.1	47.7	61.3	81.7	98.7	112.4	112.4	108.9	95.3	102.1
82.5°	20.4	34.1	51.1	64.7	78.3	95.3	108.9	112.4	102.1	95.3	98.7
85°	23.8	37.4	54.5	68.0	85.1	78.3	71.5	57.9	54.5	44.2	47.7
87.5°	23.8	34.1	34.1	37.4	40.9	40.9	40.9	37.4	30.6	27.2	27.2
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: P648548

CATALOG NUMBER: GALN-SA7B-835-U-SLR-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8700.4	8700.4	8700.4	8700.4	8700.4	8700.4	8700.4	8700.4	8700.4	8700.4
2.5°	9507.1	9779.4	9769.3	9776.1	9735.2	9459.5	9326.7	8989.8	9085.1	9044.2
5°	9871.4	10140.2	10371.8	10344.5	10031.3	9656.9	9102.1	8577.8	8434.9	8223.8
7.5°	9507.1	10153.9	10368.3	10337.7	9874.7	9394.8	8509.8	7985.6	7737.1	7597.5
10°	8928.5	9677.3	9942.8	9997.3	9684.1	8955.7	8142.2	7301.4	7168.7	6927.0
12.5°	8598.3	9142.9	9306.3	9452.7	9343.8	8799.1	7863.0	7056.3	6872.5	6712.5
15°	8329.4	8652.8	8720.8	8887.6	8952.3	8659.6	8009.4	7321.8	6869.1	6852.1
17.5°	8577.8	8445.1	8196.6	8247.7	8451.9	8663.0	8387.3	7846.1	7406.9	7352.4
20°	8989.8	8404.3	7842.6	7968.6	8138.7	8785.5	8959.1	8577.8	8326.0	8186.4
22.5°	9462.9	8475.7	7730.3	7791.6	8114.9	9061.3	9885.0	9674.0	9204.2	9003.3
25°	10337.7	8673.2	7818.8	7859.7	8302.1	9445.9	10722.3	10878.9	10599.8	10559.0
27.5°	11192.0	9183.8	8012.8	7920.9	8397.4	9820.3	11229.6	12070.3	11580.1	11484.8
30°	11627.8	9599.0	8302.1	8145.5	8792.3	10048.4	11535.9	12846.4	12417.5	12373.3
32.5°	12295.0	9976.9	8526.8	8326.0	9013.6	10330.9	12107.8	13694.0	13278.7	13057.5
35°	12574.0	10388.8	9020.4	8785.5	9646.7	10725.8	12400.4	14449.6	14320.3	14105.8
37.5°	13111.9	10831.2	9602.5	9588.9	10412.6	11239.7	12928.1	15477.6	15453.8	15082.8
40°	13156.1	11314.6	10521.5	10950.4	11597.2	12134.9	13391.0	15763.5	16151.6	15899.7
42.5°	13224.2	12162.2	12111.1	12465.1	13020.0	12904.2	13408.0	15831.6	16423.9	16274.1
45°	13254.9	13009.8	13728.0	14381.5	14613.1	13911.8	13248.0	15702.3	16566.9	16192.4
47.5°	13009.8	13738.2	15035.1	16298.0	16366.0	14531.3	13180.0	15569.5	16652.0	16403.5
50°	13043.8	14194.3	16165.2	17295.3	17046.8	15079.3	13074.5	15487.8	16607.7	16440.9
52°	12962.1	14204.6	16325.2	17274.9	17101.3	14776.4	12894.1	15174.7	16566.9	16686.0
52.5°	13054.0	14143.3	16158.4	17288.5	17063.8	14926.2	12870.2	15348.3	16590.7	16349.0
55°	12737.5	13414.8	15181.5	15661.4	15627.3	13547.6	12138.4	14773.0	15967.8	15971.2
57.5°	11512.1	11627.8	11906.9	11896.7	11740.1	10650.8	10382.0	13585.0	14235.2	13881.2
60°	10143.7	8513.2	7760.9	7454.6	7281.0	7104.0	9183.8	12427.7	12489.0	12339.2
62.5°	8765.1	5902.4	4901.7	4816.5	4857.4	5504.1	8877.4	11968.2	11600.5	11277.2
65°	7073.3	4302.6	3560.5	3448.2	3846.4	4544.2	7185.7	9177.0	8611.9	8343.0
67.5°	4442.1	3138.4	2406.6	2195.5	2675.5	3128.2	4721.3	5766.2	5133.1	4762.0
70°	2634.6	1753.0	1089.2	976.9	1099.5	1667.9	2644.8	2876.3	2379.3	2188.7
72.5°	1038.2	643.3	302.9	258.7	268.9	585.4	973.5	949.7	718.2	639.9
75°	279.1	194.0	105.5	85.1	71.5	108.9	156.6	102.1	37.4	47.7
77.5°	129.4	115.7	91.9	71.5	54.5	40.9	20.4	6.8	6.8	3.4
80°	112.4	98.7	85.1	71.5	54.5	34.1	17.0	3.4	3.4	3.4
82.5°	105.5	91.9	78.3	64.7	51.1	34.1	17.0	3.4	0.0	0.0
85°	44.2	57.9	64.7	61.3	54.5	34.1	17.0	3.4	0.0	0.0
87.5°	23.8	20.4	17.0	13.6	10.2	6.8	6.8	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

(END OF REPORT)