

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: P648550

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648550
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-SA7B-835-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 800mA 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: 22286.5 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

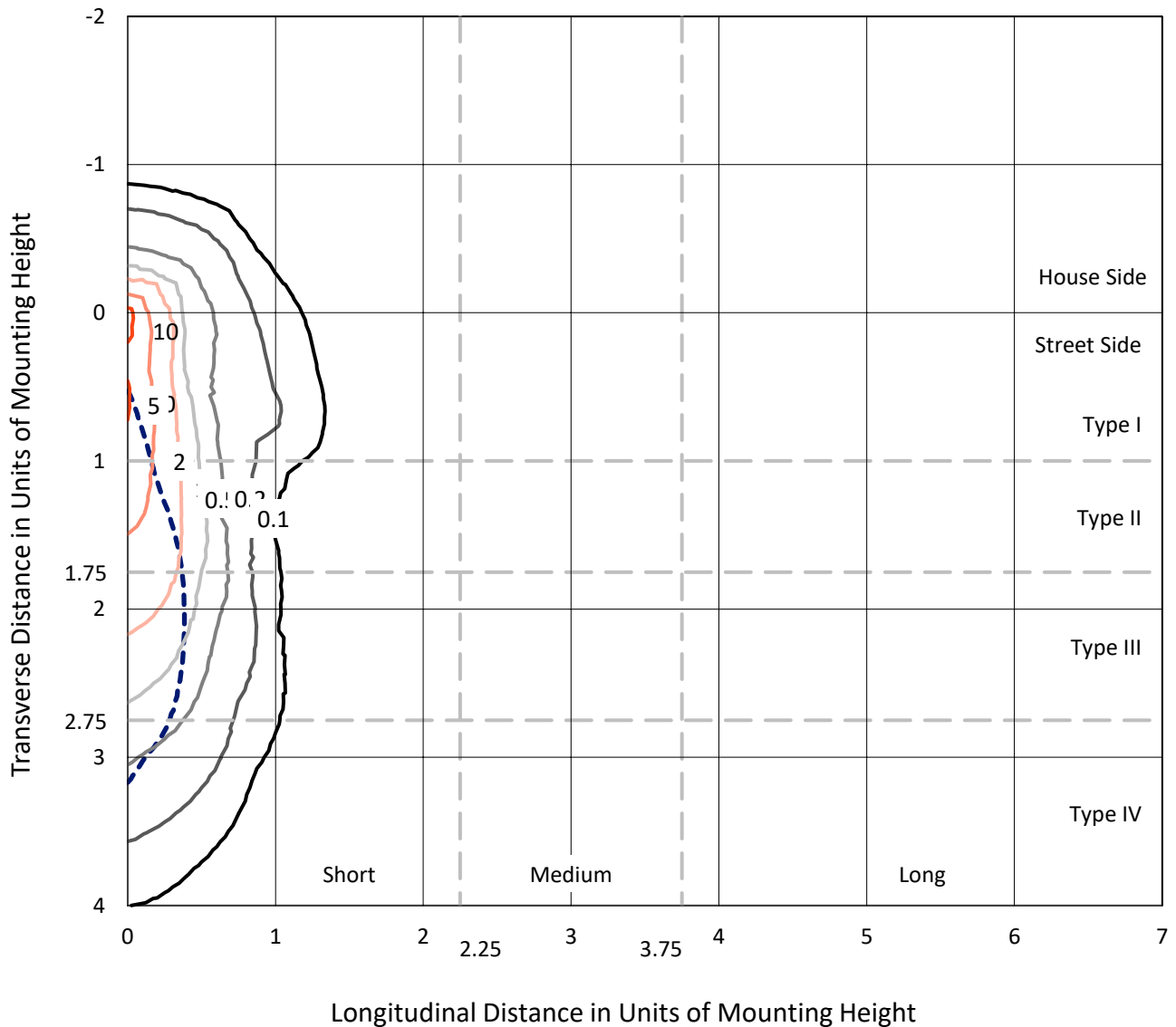
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

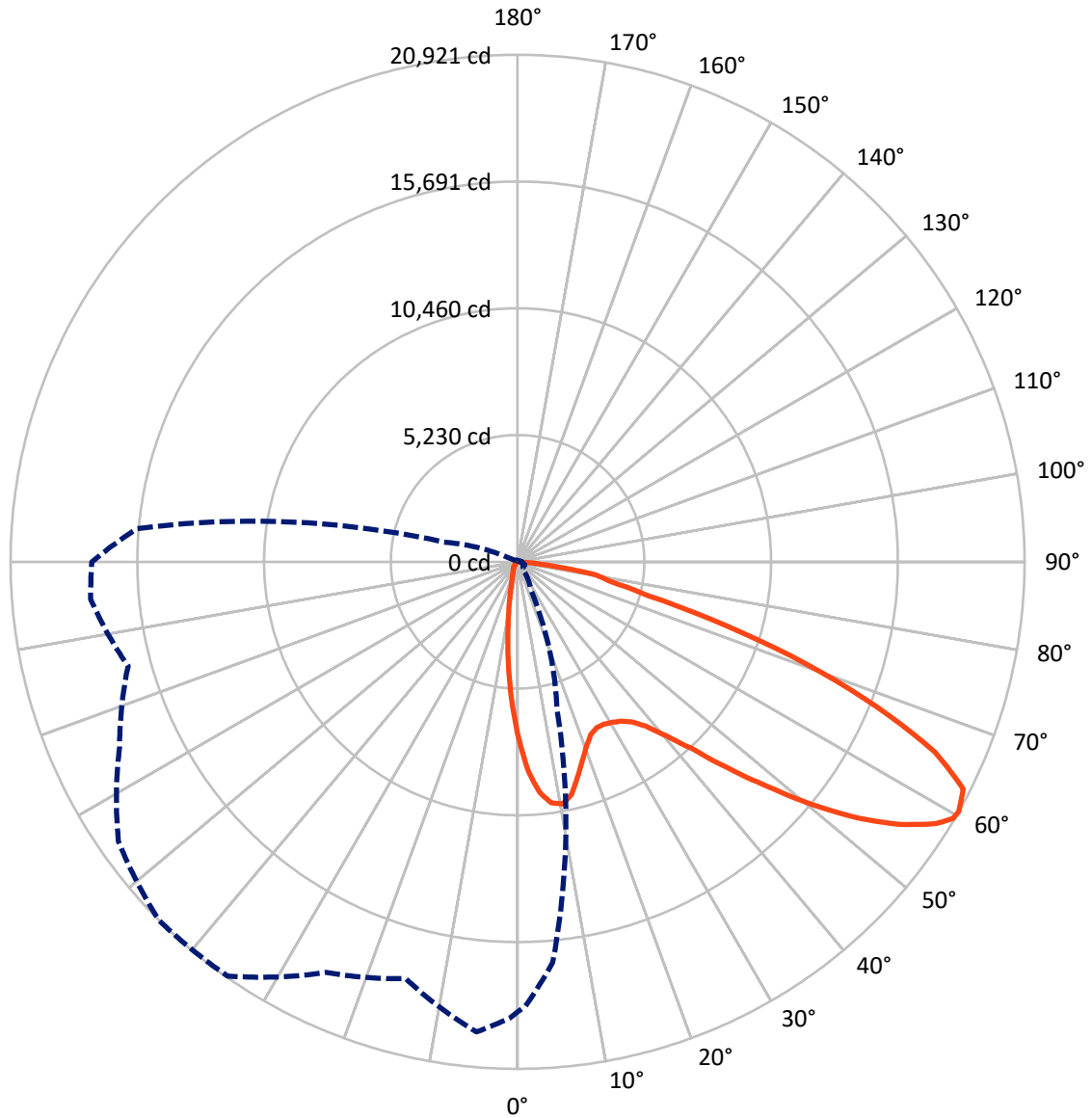
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 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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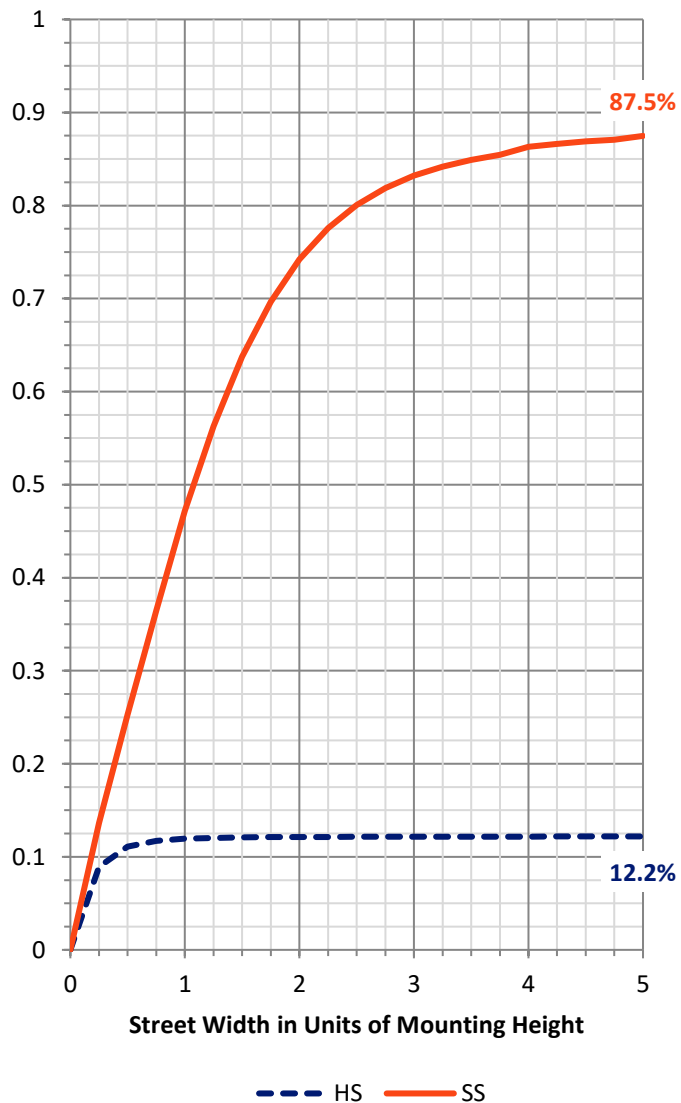
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2748.8	0.0	2748.8
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	19537.7	0.0	19537.7
	% Fixture	87.7	0.0	87.7
Total	Lumens	22286.5	0.0	22286.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	547.9	2.5
10°-20°	1088.1	4.9
20°-30°	1595.4	7.2
30°-40°	2372.6	10.6
40°-50°	3452.9	15.5
50°-60°	4979.3	22.3
60°-70°	5476.7	24.6
70°-80°	2453.1	11.0
80°-90°	320.5	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°	22286.5	100.0
0°-180°	22286.5	100.0

Coefficient of Utilization

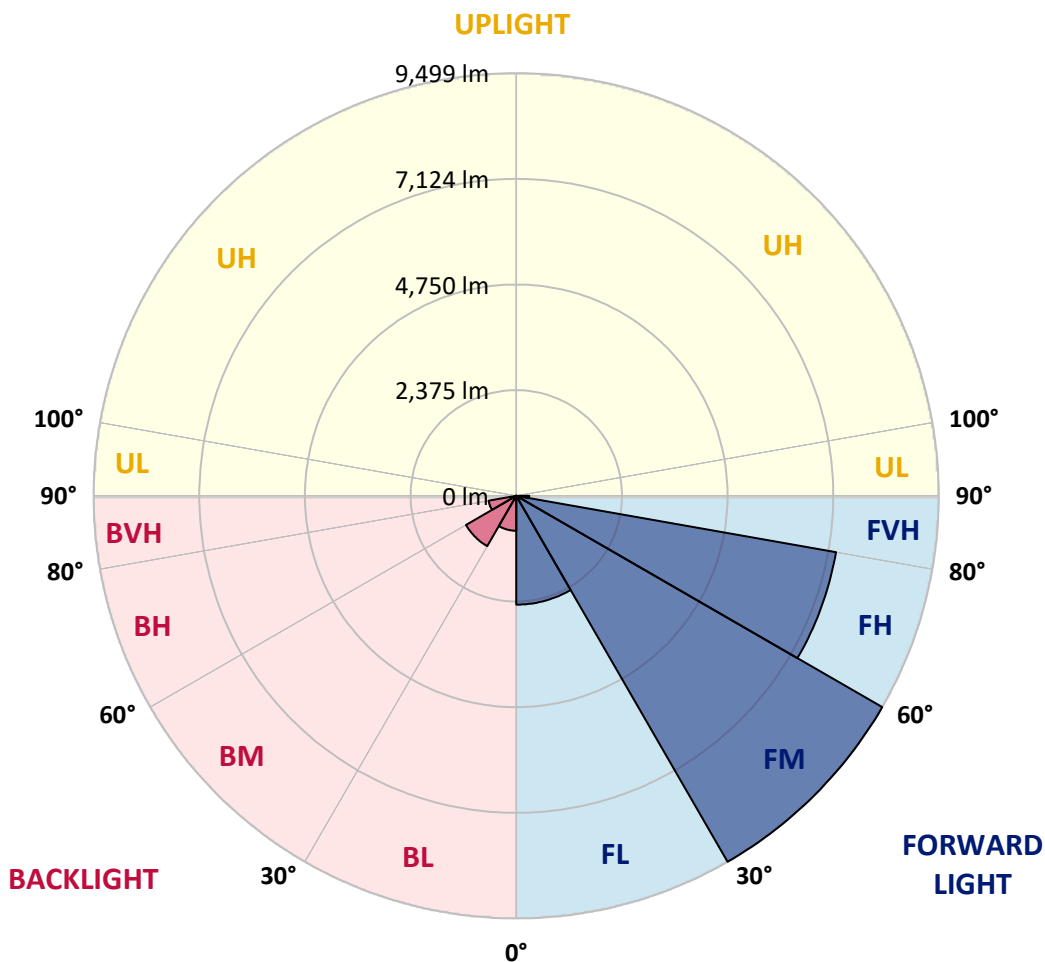


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2445.9	11.0			
FM (30°-60°)	9499.2	42.6			
FH (60°-80°)	7299.5	32.8			G3/7500
FVH (80°-90°)	293.1	1.3			G3/500
BL (0°-30°)	785.4	3.5	B2/1000		
BM (30°-60°)	1305.6	5.9	B2/2500		
BH (60°-80°)	630.4	2.8	B2/1000		G2/1000
BVH (80°-90°)	27.4	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°	7366.0	7366.0	7366.0	7366.0	7366.0	7366.0	7366.0	7366.0	7366.0	7366.0	7366.0
2.5°	8097.9	8062.3	7981.0	7733.6	7518.5	7237.3	6952.6	6729.0	6591.8	6339.4	6224.1
5°	7845.4	7862.4	7626.9	7118.6	6552.8	6166.6	5744.7	5409.3	5040.0	4806.2	4560.6
7.5°	7186.5	7152.5	6896.7	6188.6	5500.8	4941.7	4408.1	3974.4	3701.6	3483.1	3300.1
10°	6622.3	6596.9	6270.0	5358.5	4619.9	4201.4	3840.5	3461.1	3168.0	2847.8	2592.0
12.5°	6268.2	6210.6	5834.5	4882.5	4281.1	3891.4	3498.4	3103.7	2698.7	2375.2	2065.2
15°	6149.6	6066.6	5648.2	4718.1	4064.2	3569.5	3076.5	2622.5	2156.6	1799.2	1565.4
17.5°	6364.8	6227.6	5782.0	4689.3	3805.0	3149.4	2542.9	1951.6	1467.1	1194.4	1050.3
20°	6857.7	6700.2	6120.9	4660.5	3517.0	2678.4	1933.0	1379.0	1014.8	865.7	786.1
22.5°	7589.6	7372.8	6622.3	4706.2	3251.0	2219.3	1395.9	974.1	806.4	713.2	657.3
25°	8468.8	8287.6	7257.6	4868.9	3040.9	1858.5	1079.1	796.2	679.3	621.7	579.4
27.5°	9432.8	9143.2	8079.2	5063.7	2849.5	1578.9	947.0	711.5	604.8	552.2	530.2
30°	10118.9	9893.7	8767.0	5199.3	2610.6	1368.8	865.7	701.3	606.5	543.8	503.2
32.5°	10796.6	10508.6	9343.1	5261.9	2436.1	1223.1	748.8	611.6	532.0	499.8	459.1
35°	11521.7	11220.2	9917.3	5228.0	2305.7	1126.6	679.3	545.5	455.7	401.5	360.9
37.5°	12255.2	11936.8	10488.3	5106.1	2224.3	1087.6	625.1	518.4	430.3	374.4	330.3
40°	13126.0	12700.8	11023.6	5006.1	2139.7	1067.3	589.5	501.4	411.7	352.4	308.3
42.5°	13837.6	13432.7	11530.1	4953.6	2082.1	1019.9	589.5	487.9	399.8	333.7	288.0
45°	14511.8	14091.7	12077.4	4995.9	2058.4	960.6	596.3	486.2	391.3	320.2	274.4
47.5°	15076.0	14711.7	12639.8	5155.2	2027.9	896.2	560.8	510.0	386.3	308.3	260.9
50°	15741.7	15389.3	13383.5	5477.1	1973.6	831.8	516.7	548.9	384.5	298.2	249.1
52.5°	16680.2	16299.1	14410.2	5843.0	1887.3	733.5	476.1	543.8	377.8	281.3	237.2
55°	17827.2	17518.8	15599.4	6281.8	1768.6	623.4	411.7	482.8	357.4	252.4	216.8
57.5°	18562.4	18299.8	16490.5	6471.5	1587.4	510.0	362.5	404.9	327.0	225.3	193.2
59°	18648.9	18411.6	16676.9	6408.9	1468.8	465.9	338.8	347.3	318.5	210.1	179.5
60°	18576.0	18330.3	16602.3	6286.9	1358.7	435.4	318.5	308.3	320.2	201.6	169.4
62.5°	18108.4	17688.3	15878.9	5668.5	1187.6	399.8	282.9	252.4	282.9	181.3	150.8
65°	17205.4	16575.2	14447.4	4797.8	1119.8	379.5	240.5	211.8	215.2	159.3	130.4
67.5°	15628.2	14833.7	12541.5	3898.2	1091.0	381.2	203.3	189.7	166.0	135.5	115.2
70°	13134.5	12341.6	10063.0	3206.9	1077.5	381.2	172.8	162.6	138.9	113.5	100.0
72.5°	9307.4	8453.7	6788.3	2519.1	970.8	379.5	147.4	147.4	113.5	94.9	81.4
75°	5258.5	5265.3	4267.5	1782.2	806.4	313.4	118.6	116.9	83.0	72.8	61.0
77.5°	3064.7	3010.5	2876.6	765.8	374.4	142.3	83.0	71.2	57.6	52.5	44.1
80°	1575.6	1296.0	1262.1	277.8	133.8	89.8	57.6	40.6	37.3	33.9	30.5
82.5°	465.9	467.6	416.8	111.8	74.5	59.3	28.8	22.0	20.4	18.6	18.6
85°	32.2	20.4	23.7	33.9	45.7	23.7	1.7	5.1	5.1	6.8	8.5
87.5°	3.4	1.7	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°	7366.0	7366.0	7366.0	7366.0	7366.0	7366.0	7366.0	7366.0	7366.0	7366.0	7366.0
2.5°	6097.1	6171.7	6032.8	6036.1	5921.0	5958.2	5822.7	5866.7	5787.1	5848.1	6027.7
5°	4587.7	4604.6	4492.8	4457.2	4474.1	4543.6	4570.8	4447.0	4499.6	4396.2	4389.4
7.5°	3232.4	3252.7	3188.3	3179.8	3301.8	3273.0	3325.6	3198.5	3078.2	3130.7	3034.1
10°	2510.7	2426.0	2293.8	2256.5	2232.9	2248.1	2248.1	2132.9	2116.0	2070.2	2139.7
12.5°	1982.1	1878.8	1753.4	1584.0	1541.6	1538.3	1475.6	1373.9	1341.7	1302.8	1360.4
15°	1440.0	1397.7	1292.6	1197.8	1101.2	1082.6	980.9	897.9	787.8	772.5	767.4
17.5°	1013.0	950.4	948.7	894.5	838.6	801.3	706.4	611.6	569.2	564.2	564.2
20°	759.0	737.0	701.3	694.6	677.6	635.3	550.6	499.8	479.4	481.2	487.9
22.5°	638.7	623.4	591.2	576.0	569.2	532.0	469.3	435.4	425.2	425.2	426.9
25°	570.9	557.3	521.8	498.1	489.6	462.5	413.3	388.0	379.5	379.5	379.5
27.5°	520.1	503.2	465.9	445.5	430.3	399.8	369.3	343.9	335.4	335.4	337.2
30°	484.5	465.9	432.0	404.9	381.2	354.1	328.6	306.6	296.4	294.8	296.4
32.5°	437.1	420.2	386.3	369.3	342.2	310.0	289.7	269.4	259.2	260.9	259.2
35°	340.5	335.4	311.7	316.8	301.5	274.4	255.8	233.8	221.9	220.3	223.6
37.5°	310.0	289.7	262.6	264.3	259.2	249.1	218.5	194.8	186.4	186.4	188.1
40°	286.3	266.0	235.4	220.3	221.9	221.9	189.7	164.4	155.9	154.2	157.5
42.5°	266.0	245.6	211.8	186.4	179.5	188.1	160.9	135.5	127.1	123.6	127.1
45°	252.4	230.4	191.4	162.6	142.3	152.5	132.2	111.8	101.6	101.6	100.0
47.5°	238.9	218.5	176.2	140.6	118.6	113.5	108.4	89.8	79.6	77.9	79.6
50°	227.0	206.7	159.3	122.0	100.0	88.1	88.1	71.2	64.4	61.0	62.7
52.5°	215.2	193.2	144.0	108.4	86.4	71.2	62.7	57.6	52.5	50.8	52.5
55°	198.2	176.2	128.7	93.2	74.5	59.3	49.1	47.4	44.1	40.6	44.1
57.5°	177.9	157.5	113.5	79.6	59.3	45.7	40.6	39.0	35.5	33.9	33.9
59°	166.0	147.4	105.0	69.5	52.5	40.6	37.3	35.5	32.2	28.8	30.5
60°	159.3	144.0	100.0	64.4	47.4	37.3	33.9	32.2	28.8	27.1	28.8
62.5°	140.6	128.7	88.1	52.5	37.3	27.1	23.7	25.4	23.7	22.0	23.7
65°	123.6	113.5	74.5	40.6	28.8	18.6	16.9	22.0	20.4	18.6	20.4
67.5°	110.1	98.3	62.7	30.5	20.4	10.2	11.8	18.6	18.6	16.9	18.6
70°	94.9	84.7	50.8	22.0	10.2	5.1	8.5	13.5	16.9	15.3	16.9
72.5°	77.9	66.1	39.0	15.3	5.1	0.0	5.1	11.8	16.9	15.3	16.9
75°	61.0	49.1	28.8	8.5	0.0	0.0	1.7	10.2	16.9	15.3	16.9
77.5°	44.1	35.5	16.9	1.7	0.0	0.0	1.7	10.2	16.9	15.3	16.9
80°	28.8	25.4	6.8	0.0	0.0	0.0	1.7	10.2	16.9	16.9	18.6
82.5°	18.6	13.5	0.0	0.0	0.0	0.0	3.4	13.5	18.6	20.4	20.4
85°	8.5	0.0	0.0	0.0	0.0	0.0	6.8	16.9	22.0	22.0	22.0
87.5°	0.0	0.0	0.0	0.0	0.0	3.4	11.8	20.4	25.4	25.4	25.4
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°	7366.0	7366.0	7366.0	7366.0	7366.0	7366.0	7366.0	7366.0	7366.0	7366.0	7366.0
2.5°	6058.1	6164.9	6315.7	6547.8	6735.8	7032.3	7259.3	7569.3	7882.7	7977.6	8125.0
5°	4459.0	4596.1	4938.4	5250.1	5446.5	6073.4	6469.9	7094.9	7655.7	7925.1	8218.1
7.5°	3096.8	3259.5	3520.4	3955.8	4369.1	4879.0	5519.4	6234.3	7056.0	7440.5	7854.0
10°	2173.5	2376.9	2744.5	3101.9	3622.0	4106.5	4738.5	5527.9	6434.2	6888.3	7406.7
12.5°	1372.2	1553.5	2039.7	2441.2	3090.0	3652.5	4235.3	4950.2	6000.5	6466.4	7010.3
15°	784.4	936.9	1163.9	1678.8	2398.9	3142.6	3869.4	4699.5	5778.6	6352.9	6940.8
17.5°	584.4	625.1	726.8	1018.1	1673.8	2542.9	3532.3	4623.2	5929.4	6603.7	7274.5
20°	491.3	518.4	565.8	681.1	1067.3	1958.4	3203.6	4636.8	6417.3	7264.4	7901.3
22.5°	440.4	457.4	496.3	570.9	728.5	1426.5	2819.0	4716.4	7008.6	8075.9	8811.1
25°	386.3	408.3	442.2	506.5	606.5	989.4	2439.5	4894.3	7837.0	9105.9	9797.1
27.5°	343.9	364.3	398.2	457.4	532.0	755.6	1997.4	5046.7	8711.1	10142.7	10708.5
30°	301.5	321.9	355.8	403.2	471.0	611.6	1521.3	5136.6	9559.9	10920.3	11355.7
32.5°	266.0	282.9	315.1	357.4	413.3	518.4	1199.4	5043.4	10208.8	11626.7	11918.1
35°	230.4	250.7	277.8	316.8	365.9	442.2	997.9	4721.5	10766.1	12353.5	12458.5
37.5°	193.2	216.8	245.6	281.3	320.2	406.6	801.3	4365.8	11362.4	13259.9	13087.1
40°	162.6	184.6	211.8	250.7	286.3	372.7	616.7	3986.3	12006.2	14110.3	13773.1
42.5°	132.2	155.9	188.1	223.6	282.9	325.3	477.7	3593.2	12583.9	14850.6	14393.2
45°	105.0	125.4	159.3	205.0	281.3	279.5	369.3	3205.3	13019.3	15379.2	14855.7
47.5°	83.0	100.0	133.8	199.9	259.2	237.2	296.4	2964.7	13476.7	15855.2	15209.8
50°	66.1	83.0	115.2	208.4	227.0	203.3	249.1	3003.7	13918.8	16097.5	15355.5
52.5°	55.9	72.8	100.0	164.4	174.5	177.9	218.5	3183.2	14489.8	16356.7	15645.1
55°	49.1	64.4	84.7	115.2	135.5	159.3	199.9	3313.7	15253.9	16912.3	16283.8
57.5°	39.0	55.9	76.3	98.3	111.8	138.9	184.6	3323.8	15945.0	17625.6	17132.6
59°	35.5	50.8	71.2	93.2	100.0	125.4	174.5	3237.5	15970.5	17732.3	17522.2
60°	32.2	49.1	67.7	86.4	94.9	118.6	166.0	3137.5	15740.0	17562.9	17683.2
62.5°	27.1	42.4	59.3	69.5	81.4	98.3	144.0	2775.0	14623.6	16795.4	17385.0
65°	23.7	37.3	50.8	57.6	67.7	84.7	127.1	2221.0	13390.3	15755.3	16531.2
67.5°	22.0	33.9	44.1	49.1	59.3	77.9	113.5	1568.7	11792.8	14435.5	15248.8
70°	20.4	32.2	39.0	45.7	52.5	66.1	96.5	914.9	9083.8	12121.4	12980.3
72.5°	20.4	30.5	33.9	39.0	45.7	59.3	89.8	494.7	6210.6	9246.4	10356.1
75°	20.4	28.8	30.5	33.9	40.6	54.2	79.6	259.2	4015.1	6424.1	7928.5
77.5°	20.4	27.1	30.5	32.2	39.0	47.4	69.5	162.6	2675.0	4499.6	5358.5
80°	22.0	27.1	28.8	32.2	37.3	44.1	57.6	108.4	1572.1	2707.2	3261.2
82.5°	23.7	27.1	30.5	33.9	39.0	42.4	50.8	67.7	725.1	1790.6	2026.2
85°	25.4	28.8	32.2	35.5	40.6	42.4	47.4	49.1	118.6	808.1	1092.7
87.5°	27.1	30.5	33.9	37.3	44.1	44.1	44.1	44.1	40.6	86.4	220.3
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: P648550

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

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7366.0	7366.0	7366.0	7366.0	7366.0	7366.0	7366.0	7366.0	7366.0	7366.0
2.5°	8311.3	8502.8	8636.6	8670.5	8573.9	8529.8	8407.9	8218.1	8103.0	8097.9
5°	8758.6	9207.5	9519.2	9571.8	9385.4	9070.3	8695.9	8213.0	7930.1	7845.4
7.5°	8682.4	9468.4	9969.9	10042.8	9729.3	9127.9	8402.8	7625.2	7316.9	7186.5
10°	8368.9	9327.8	10044.4	10159.6	9741.1	8894.1	7972.5	7105.1	6722.3	6622.3
12.5°	8101.2	9070.3	9707.3	9866.5	9549.7	8704.4	7715.0	6771.4	6361.4	6268.2
15°	7984.4	8765.4	9155.0	9236.3	9183.8	8585.8	7687.9	6720.6	6251.3	6149.6
17.5°	8101.2	8506.1	8555.3	8638.3	8755.2	8573.9	7948.8	6996.7	6490.1	6364.8
20°	8407.9	8280.9	8077.5	8113.1	8380.8	8623.0	8412.9	7608.3	6991.6	6857.7
22.5°	8929.7	8224.9	7764.1	7733.6	8072.5	8787.4	9094.0	8436.7	7721.8	7589.6
25°	9570.1	8365.6	7649.0	7582.9	7952.1	9027.9	9834.3	9451.4	8670.5	8468.8
27.5°	10268.0	8656.9	7649.0	7584.5	7942.0	9241.4	10467.9	10349.4	9653.1	9432.8
30°	10650.9	8897.5	7759.1	7686.2	8067.4	9365.1	10806.7	11147.3	10391.7	10118.9
32.5°	10993.1	9231.3	7974.2	7837.0	8329.9	9548.1	11110.0	11824.9	10979.5	10796.6
35°	11308.2	9588.7	8270.7	8111.4	8675.6	9798.8	11445.4	12536.5	11797.9	11521.7
37.5°	11655.5	10003.8	8733.2	8597.7	9253.3	10286.7	11843.6	13471.6	12602.5	12255.2
40°	12033.3	10484.9	9493.8	9436.2	10171.5	10839.0	12346.7	14469.4	13520.8	13126.0
42.5°	12417.8	11038.9	10425.6	10520.5	11211.7	11613.1	12863.4	15236.9	14272.9	13837.6
45°	12766.9	11747.0	11636.9	12106.1	12424.6	12368.7	13246.3	15777.3	14928.5	14511.8
47.5°	13207.3	12778.7	13102.3	13825.7	13834.1	13190.4	13536.0	16219.5	15492.7	15076.0
50°	13700.3	13996.8	14994.6	15731.6	15533.3	13998.5	13874.8	16743.0	16075.5	15741.7
52.5°	14271.3	15360.6	16743.0	17561.2	17098.7	14879.4	14439.0	17308.8	17000.4	16680.2
55°	14935.3	16290.6	18486.2	19138.4	18672.5	15973.8	15296.1	18076.2	18045.7	17827.2
57.5°	15685.8	17273.2	19495.9	20378.5	19963.4	17257.9	16493.9	18799.6	18684.4	18562.4
59°	16278.7	17778.0	19941.4	20856.3	20605.5	18157.5	17298.6	19250.2	18831.8	18648.9
60°	16637.9	18120.3	20105.8	20920.7	20863.0	18692.9	17808.6	19470.5	18830.1	18576.0
62.5°	17703.5	18718.3	20043.1	20634.3	20859.7	19719.5	19304.5	19712.7	18481.1	18108.4
65°	18083.0	18520.1	19004.6	18931.8	19124.9	19667.0	20260.0	19446.7	17735.7	17205.4
67.5°	17344.4	16346.5	16517.6	16031.5	15936.6	17484.9	19872.0	18145.7	16277.1	15628.2
70°	14620.3	12522.9	12436.5	12660.1	12046.8	14156.0	17844.1	15640.1	13869.7	13134.5
72.5°	11508.1	8850.1	8121.6	8944.9	8926.3	10800.0	14823.5	11098.2	9370.2	9307.4
75°	9050.0	6161.5	5407.6	5541.4	5799.0	7818.3	11806.3	7047.5	5770.2	5258.5
77.5°	6075.1	4365.8	4072.6	3908.3	4186.2	5019.7	7469.4	3821.9	3235.7	3064.7
80°	3501.7	3171.4	3601.7	3269.7	3418.7	3162.9	3715.2	1753.4	1455.3	1575.6
82.5°	2278.6	1805.9	1924.5	1429.8	1955.0	1972.0	1192.7	518.4	438.8	465.9
85°	1424.7	847.0	476.1	338.8	674.2	1240.1	372.7	32.2	37.3	32.2
87.5°	369.3	140.6	59.3	88.1	108.4	96.5	86.4	5.1	1.7	3.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)