

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: P647391

Luminaire Tested: **GALN-SA4D-835-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647391
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-835-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17208 lumens
Efficiency: N/A
Efficacy: 70.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 245
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

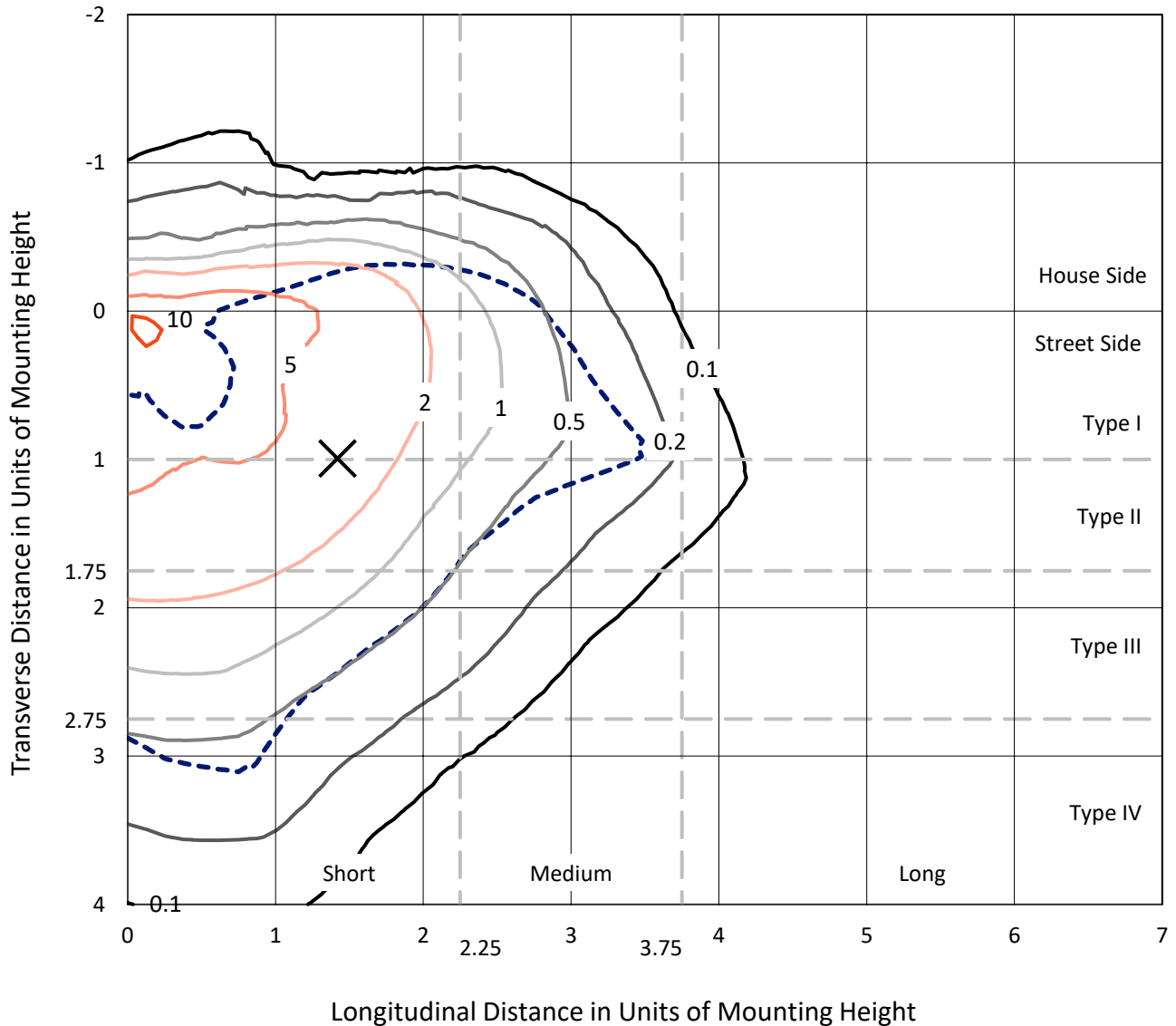




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Iso-Footcandle Lines of Horizontal Illumination

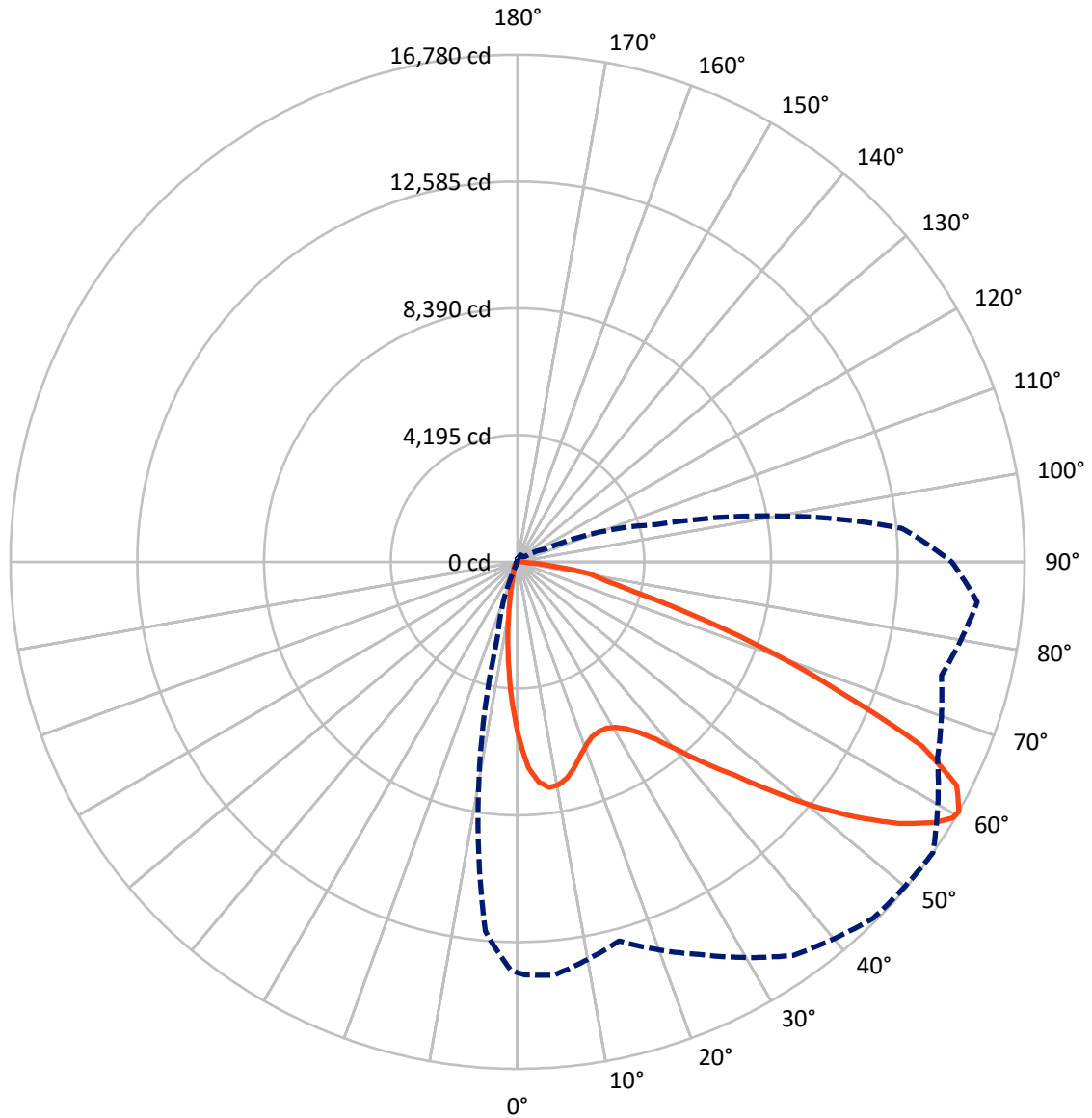
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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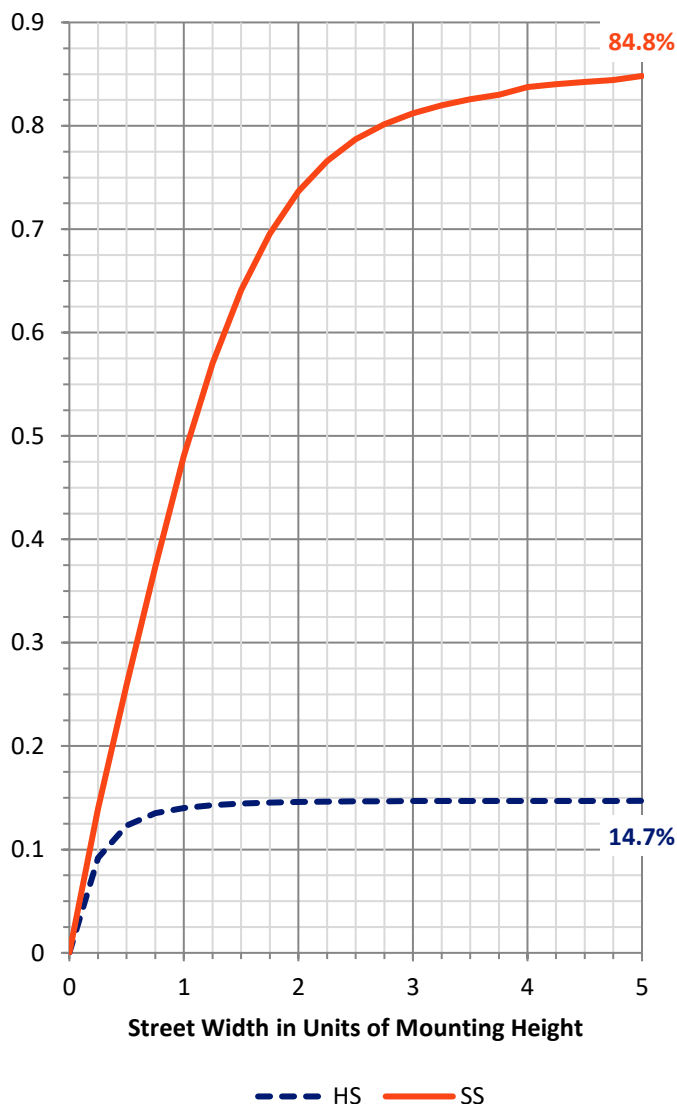
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2553.8	0.0	2553.8
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	14654.2	0.0	14654.2
	% Fixture	85.2	0.0	85.2
Total	Lumens	17208.0	0.0	17208.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	431.5	2.5
10°-20°	849.7	4.9
20°-30°	1257.6	7.3
30°-40°	1874.7	10.9
40°-50°	2745.5	16.0
50°-60°	3963.6	23.0
60°-70°	4169.5	24.2
70°-80°	1715.2	10.0
80°-90°	200.9	1.2
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°	17208.0	100.0
0°-180°	17208.0	100.0

Coefficient of Utilization



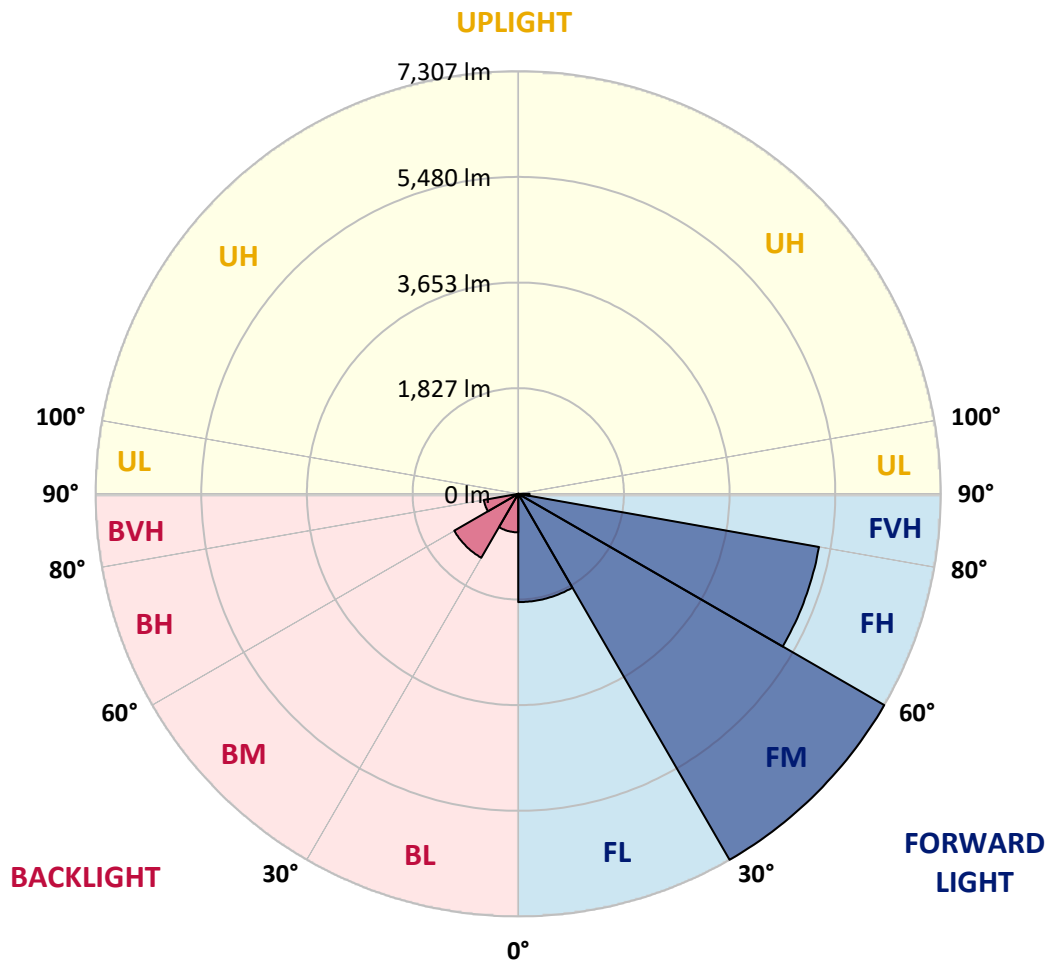
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1872.5	10.9			
FM (30°-60°)	7306.5	42.5			
FH (60°-80°)	5280.2	30.7			G3/7500
FVH (80°-90°)	195.0	1.1			G2/225
BL (0°-30°)	666.3	3.9	B2/1000		
BM (30°-60°)	1277.1	7.4	B2/2500		
BH (60°-80°)	604.5	3.5	B2/1000		G2/1000
BVH (80°-90°)	5.9	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5826.6	5826.6	5826.6	5826.6	5826.6	5826.6	5826.6	5826.6	5826.6	5826.6	5826.6
2.5°	6365.6	6355.1	6449.1	6602.7	6757.7	6838.5	6822.6	6816.0	6687.5	6593.5	6396.1
5°	6352.4	6406.7	6574.9	6990.9	7306.1	7458.4	7503.4	7314.0	7063.7	6700.8	6253.0
7.5°	5972.3	6039.8	6314.0	6964.3	7524.6	7855.8	7843.9	7540.5	7024.0	6462.3	5824.0
10°	5500.7	5580.2	5902.1	6691.5	7418.7	7855.8	7879.6	7495.5	6853.1	6132.5	5461.0
12.5°	5168.3	5262.3	5618.7	6437.2	7145.8	7576.3	7604.1	7325.9	6724.6	6005.4	5263.6
15°	5055.7	5144.5	5506.1	6308.7	6855.7	7087.6	7080.9	7051.8	6674.3	6035.8	5274.3
17.5°	5249.1	5322.0	5729.9	6367.0	6584.2	6560.4	6594.8	6735.2	6684.9	6291.5	5608.0
20°	5748.4	5822.6	6261.0	6545.8	6376.3	6225.2	6241.1	6475.6	6782.9	6772.3	6129.9
22.5°	6435.9	6561.7	6959.1	6892.8	6348.4	6017.3	5984.2	6288.8	6949.8	7325.9	6834.6
25°	7306.1	7433.3	7743.2	7446.5	6484.9	5968.3	5937.8	6231.9	7152.4	7866.3	7627.9
27.5°	8037.2	8133.9	8442.5	7985.6	6686.2	5989.5	5939.1	6239.8	7316.7	8326.0	8296.8
30°	8622.6	8694.2	8875.6	8237.2	6859.7	6082.2	6023.9	6356.4	7389.5	8549.8	8838.6
32.5°	9094.2	9214.7	9271.7	8506.1	7108.7	6257.0	6157.7	6580.3	7567.0	8826.6	9406.7
35°	9633.2	9772.3	9699.5	8763.0	7437.2	6529.9	6408.1	6943.2	7835.9	9082.3	10066.4
37.5°	10316.7	10477.0	10192.2	9033.2	7784.2	6940.5	6883.5	7453.1	8243.8	9447.8	10773.7
40°	11024.0	11116.7	10670.3	9361.7	8210.7	7537.9	7592.2	8210.7	8777.6	9886.2	11526.0
42.5°	11576.3	11663.7	11161.7	9637.2	8646.5	8246.5	8473.0	9124.6	9389.6	10335.3	12087.6
45°	11998.8	12073.0	11502.2	9937.9	9234.5	9273.0	9700.8	10066.4	10002.8	10609.4	12520.7
47.5°	12327.3	12390.9	11764.4	10261.1	10115.4	10528.6	11183.0	11337.9	10638.5	10906.1	12912.8
50°	12462.5	12481.0	11846.6	10673.0	11115.4	12128.7	12810.8	12716.8	11367.0	11235.9	13330.0
52.5°	12638.6	12634.6	12081.0	11065.0	12055.8	13559.1	14240.0	14026.7	12190.9	11730.0	13798.9
55°	13100.8	13106.2	12583.0	11621.4	12857.2	14714.1	15442.6	15287.7	13059.8	12564.4	14345.9
57.5°	13662.5	13682.3	13296.9	12271.7	13622.7	15551.2	16340.7	16281.1	14234.6	13492.9	14862.5
59°	13735.3	13775.0	13634.6	12730.0	14077.0	15808.2	16647.9	16706.2	14863.8	14104.9	15142.0
60°	13602.8	13669.1	13732.6	12989.6	14343.2	15900.9	16666.5	16780.4	15336.6	14520.7	15269.1
62.5°	13025.4	13130.0	13449.2	13788.3	14675.7	15612.2	16074.4	16312.9	15922.1	15613.5	15281.0
65°	12269.1	12323.4	12784.3	13930.0	14030.7	14263.8	14406.8	14712.8	15218.8	16034.7	14734.0
67.5°	11029.3	11189.5	11753.8	13107.5	12127.3	11851.8	11816.1	11511.4	12825.4	15030.7	13385.6
70°	9111.4	9182.9	9878.3	10745.9	9152.5	8728.6	8898.2	8784.2	9941.9	12939.2	10773.7
72.5°	6890.2	7051.8	7731.3	8565.7	6227.9	5678.2	6145.8	6103.4	7467.6	10398.9	7401.5
75°	4902.0	5006.7	5873.0	6703.4	4361.6	3695.4	3863.6	4021.3	5213.3	8210.7	4373.6
77.5°	3368.2	3458.4	4108.6	4433.2	3181.5	3047.7	2788.1	2940.5	3415.9	4871.6	2380.2
80°	2031.8	2027.8	2455.6	2535.1	2215.9	2573.6	2159.0	2423.9	2064.9	2084.8	921.9
82.5°	1319.2	1306.0	1502.0	1637.1	1233.1	1296.7	870.2	1254.3	1345.7	581.5	291.4
85°	590.8	615.9	721.8	952.4	540.4	287.4	177.5	385.5	573.5	292.7	0.0
87.5°	60.9	47.7	127.2	231.8	74.2	7.9	26.5	13.2	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°	5826.6	5826.6	5826.6	5826.6	5826.6	5826.6	5826.6	5826.6	5826.6	5826.6	5826.6
2.5°	6304.7	6227.9	5998.8	5784.2	5600.1	5374.9	5229.2	5000.1	4861.0	4818.6	4825.2
5°	6051.7	5830.5	5394.8	5046.4	4658.4	4437.2	4100.7	3777.5	3602.7	3537.8	3508.7
7.5°	5522.0	5284.9	4759.0	4212.0	3796.1	3408.0	3157.7	2872.9	2678.2	2517.9	2490.1
10°	5128.6	4817.3	4165.6	3577.5	3249.1	2957.6	2707.3	2422.5	2193.4	2010.6	1960.3
12.5°	4892.8	4544.5	3817.3	3324.5	3013.3	2714.0	2388.2	2058.3	1823.8	1626.5	1535.1
15°	4850.4	4446.4	3719.2	3143.1	2759.0	2397.4	1964.2	1608.0	1366.9	1180.1	1123.2
17.5°	5106.0	4622.6	3704.7	2953.7	2426.5	1914.0	1463.6	1168.2	896.7	792.1	751.0
20°	5561.6	4933.8	3703.4	2733.8	2084.8	1474.2	1027.8	761.6	651.7	601.3	577.5
22.5°	6182.9	5357.7	3773.6	2544.4	1729.8	1087.4	733.7	606.7	543.1	502.0	492.7
25°	6941.8	5985.5	3945.8	2415.9	1458.3	853.0	605.3	519.2	466.2	447.7	439.7
27.5°	7616.0	6586.8	4135.2	2283.5	1263.6	755.0	561.6	475.5	433.2	418.5	406.6
30°	8197.5	7132.6	4226.6	2108.6	1107.3	691.4	569.6	508.6	453.0	409.3	389.4
32.5°	8682.2	7551.1	4286.1	1949.7	974.8	565.6	450.3	393.4	368.2	352.4	339.0
35°	9288.9	8004.1	4250.4	1859.6	907.3	515.2	410.6	339.0	296.7	264.9	251.7
37.5°	9924.7	8457.1	4188.1	1785.5	876.8	478.2	390.7	321.9	275.5	242.4	225.2
40°	10582.9	8876.9	4115.3	1716.6	849.0	454.3	378.8	307.3	260.9	225.2	206.6
42.5°	11185.6	9286.2	4086.2	1671.5	804.0	458.3	369.6	300.7	246.3	209.3	193.4
45°	11673.0	9674.4	4125.9	1647.7	755.0	451.6	372.2	292.7	234.4	198.6	182.8
47.5°	12193.6	10222.7	4254.4	1623.9	707.3	419.8	392.0	291.4	229.1	192.1	174.8
50°	12798.8	10924.7	4548.4	1565.6	649.0	385.5	417.3	290.1	222.5	184.1	166.9
52.5°	13605.5	11722.1	4851.7	1463.6	564.2	352.4	398.7	286.1	209.3	174.8	157.6
55°	14330.0	12561.7	5108.7	1343.1	457.0	304.7	358.9	268.9	186.7	158.9	143.1
57.5°	14629.3	13035.9	5100.8	1176.1	365.6	267.6	295.3	246.3	162.9	140.4	127.2
59°	14519.4	12976.3	4929.8	1053.0	333.8	247.7	245.0	243.7	152.3	127.2	116.6
60°	14364.4	12759.1	4745.8	992.1	313.9	234.4	225.2	241.1	143.1	119.2	108.6
62.5°	13771.1	11858.5	4135.2	888.8	287.4	198.6	180.2	204.0	127.2	103.3	94.0
65°	12911.4	10474.3	3500.7	859.6	279.5	164.3	149.7	145.7	108.6	87.4	79.5
67.5°	11234.6	8863.7	2835.8	839.8	282.1	137.7	131.2	109.9	90.0	72.8	67.6
70°	8994.9	6911.4	2321.9	817.2	284.8	112.6	109.9	87.4	72.8	60.9	55.6
72.5°	5464.9	4096.7	1827.8	709.9	276.8	90.0	98.0	66.2	53.0	43.7	41.0
75°	3378.9	2804.0	1133.8	552.3	182.8	66.2	68.9	41.0	35.8	27.8	27.8
77.5°	1957.7	1770.9	405.3	198.6	80.8	39.7	30.5	21.2	19.9	11.9	11.9
80°	812.0	650.4	140.4	67.6	43.7	18.6	6.7	1.3	0.0	0.0	0.0
82.5°	237.1	210.6	38.4	30.5	13.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	5826.6	5826.6	5826.6	5826.6	5826.6	5826.6	5826.6	5826.6	5826.6	5826.6	5826.6
2.5°	4712.6	4669.0	4649.1	4716.6	4654.4	4733.9	4672.9	4699.4	4777.6	4812.0	4900.7
5°	3527.2	3482.2	3461.0	3563.0	3557.6	3608.0	3602.7	3649.1	3688.8	3600.1	3691.5
7.5°	2457.0	2426.5	2476.9	2556.3	2641.1	2613.3	2613.3	2551.0	2572.2	2559.0	2555.0
10°	1868.9	1764.3	1737.8	1735.1	1766.9	1773.6	1737.8	1651.7	1683.4	1692.8	1748.4
12.5°	1470.2	1389.4	1266.3	1210.6	1196.0	1207.9	1090.1	1014.6	1050.3	1029.2	1083.4
15°	1054.3	988.1	915.2	853.0	835.8	812.0	683.5	593.4	582.8	586.8	596.0
17.5°	752.3	707.3	707.3	641.0	605.3	533.8	468.9	429.2	425.2	429.2	435.7
20°	555.0	531.1	528.4	511.3	471.5	423.8	378.8	370.8	368.2	374.8	377.5
22.5°	478.2	453.0	431.8	430.5	393.4	353.7	332.5	321.9	323.2	325.8	332.5
25°	427.8	401.4	378.8	365.6	339.0	311.2	291.4	286.1	286.1	290.1	291.4
27.5°	392.0	358.9	339.0	320.6	296.7	272.9	255.6	251.7	249.0	251.7	258.3
30°	366.9	333.8	308.6	280.8	262.2	239.8	225.2	219.9	218.5	219.9	225.2
32.5°	313.9	294.0	274.2	249.0	226.5	212.0	196.1	186.7	186.7	189.4	194.7
35°	237.1	226.5	225.2	218.5	200.0	184.1	165.6	156.3	156.3	161.6	164.3
37.5°	209.3	189.4	186.7	184.1	176.2	155.0	137.7	129.8	128.5	132.5	137.7
40°	190.7	168.2	156.3	153.6	155.0	131.2	112.6	104.6	104.6	105.9	111.3
42.5°	176.2	149.7	128.5	125.8	131.2	109.9	91.4	83.5	83.5	83.5	90.0
45°	164.3	133.8	108.6	95.4	103.3	90.0	74.2	66.2	63.6	66.2	68.9
47.5°	156.3	121.8	95.4	76.8	76.8	71.5	59.6	50.3	47.7	49.0	53.0
50°	149.7	111.3	80.8	62.2	55.6	56.9	45.0	38.4	35.8	35.8	39.7
52.5°	139.1	100.7	70.2	53.0	42.4	38.4	33.1	27.8	26.5	27.8	30.5
55°	125.8	91.4	60.9	43.7	33.1	26.5	23.8	19.9	18.6	19.9	23.8
57.5°	111.3	76.8	49.0	34.5	22.6	17.2	15.9	13.2	10.6	11.9	14.6
59°	102.0	68.9	42.4	27.8	17.2	11.9	11.9	9.2	6.7	7.9	11.9
60°	98.0	63.6	35.8	23.8	14.6	9.2	9.2	6.7	4.0	5.3	9.2
62.5°	83.5	53.0	27.8	14.6	6.7	1.3	4.0	1.3	0.0	1.3	4.0
65°	70.2	42.4	18.6	6.7	0.0	0.0	0.0	0.0	0.0	0.0	1.3
67.5°	58.3	31.8	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	46.4	21.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	31.8	11.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	19.9	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P647391
 CATALOG NUMBER: GALN-SA4D-835-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5826.6	5826.6	5826.6	5826.6	5826.6	5826.6	5826.6	5826.6	5826.6	5826.6
2.5°	4906.0	5095.5	5212.0	5431.9	5657.0	5830.5	6047.7	6242.5	6323.3	6365.6
5°	3784.2	4047.7	4271.6	4606.7	4917.9	5296.8	5680.9	6133.9	6307.4	6352.4
7.5°	2655.7	2924.6	3159.0	3547.1	3990.8	4498.1	5072.9	5647.8	5900.8	5972.3
10°	1917.9	2205.3	2491.4	2879.5	3294.1	3843.7	4442.4	5153.7	5445.1	5500.7
12.5°	1210.6	1519.3	1984.1	2463.6	2902.0	3344.4	3970.9	4744.4	5066.3	5168.3
15°	702.0	932.5	1283.5	1908.6	2466.3	3051.7	3735.1	4590.8	4951.1	5055.7
17.5°	470.2	549.7	790.8	1268.9	2005.3	2781.5	3675.6	4716.6	5115.3	5249.1
20°	396.0	431.8	516.5	773.5	1544.4	2540.4	3691.5	5058.3	5581.5	5748.4
22.5°	348.4	381.5	435.7	556.3	1078.2	2241.1	3766.9	5547.1	6222.6	6435.9
25°	307.3	340.4	388.1	461.0	724.5	1895.4	3932.5	6262.4	7071.7	7306.1
27.5°	272.9	303.3	344.4	406.6	557.7	1509.9	4079.5	6959.1	7846.4	8037.2
30°	241.1	266.2	306.0	353.7	463.6	1164.2	4153.7	7568.3	8410.8	8622.6
32.5°	209.3	233.1	271.5	309.9	381.5	887.5	4102.1	8016.0	8959.1	9094.2
35°	178.8	204.0	235.8	271.5	329.8	716.6	3843.7	8519.4	9527.3	9633.2
37.5°	153.6	174.8	208.0	235.8	298.0	573.5	3531.2	8972.3	10164.4	10316.7
40°	129.8	151.0	184.1	209.3	274.2	451.6	3249.1	9475.6	10835.9	11024.0
42.5°	105.9	131.2	160.3	201.3	235.8	344.4	2907.4	9883.6	11340.6	11576.3
45°	84.8	112.6	144.4	200.0	205.3	262.2	2577.6	10201.5	11787.0	11998.8
47.5°	67.6	95.4	139.1	186.7	168.2	208.0	2389.4	10533.9	12157.8	12327.3
50°	54.3	79.5	145.7	164.3	140.4	176.2	2384.2	10904.8	12349.9	12462.5
52.5°	43.7	64.9	123.2	125.8	119.2	155.0	2527.2	11322.0	12545.9	12638.6
55°	37.1	54.3	80.8	92.7	107.3	140.4	2634.5	11964.4	13013.5	13100.8
57.5°	29.1	46.4	62.2	74.2	95.4	128.5	2649.0	12459.8	13605.5	13662.5
59°	25.1	39.7	55.6	66.2	87.4	120.5	2589.5	12490.3	13643.9	13735.3
60°	21.2	35.8	49.0	62.2	80.8	113.9	2524.5	12269.1	13500.9	13602.8
62.5°	15.9	27.8	35.8	50.3	66.2	98.0	2217.2	11496.9	12953.9	13025.4
65°	10.6	19.9	26.5	37.1	51.7	84.8	1806.6	10495.5	12108.8	12269.1
67.5°	6.7	14.6	21.2	27.8	42.4	71.5	1287.4	9000.1	10926.0	11029.3
70°	4.0	9.2	15.9	22.6	33.1	56.9	764.3	7114.0	9090.2	9111.4
72.5°	2.7	6.7	10.6	15.9	26.5	51.7	370.8	4637.2	6637.2	6890.2
75°	1.3	4.0	6.7	11.9	21.2	42.4	177.5	3098.1	4829.2	4902.0
77.5°	0.0	1.3	4.0	7.9	15.9	33.1	103.3	2034.5	3292.7	3368.2
80°	0.0	0.0	2.7	6.7	11.9	21.2	62.2	1200.0	1994.8	2031.8
82.5°	0.0	0.0	1.3	5.3	7.9	15.9	31.8	527.2	1306.0	1319.2
85°	0.0	0.0	1.3	5.3	6.7	10.6	11.9	71.5	580.1	590.8
87.5°	0.0	0.0	1.3	6.7	6.7	6.7	6.7	4.0	49.0	60.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)