

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: P648110

Luminaire Tested: **GALN-SA8A-835-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648110
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-SA8A-835-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 615mA 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: 20765.2 lumens
Efficiency: N/A
Efficacy: 85.1 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): 244
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

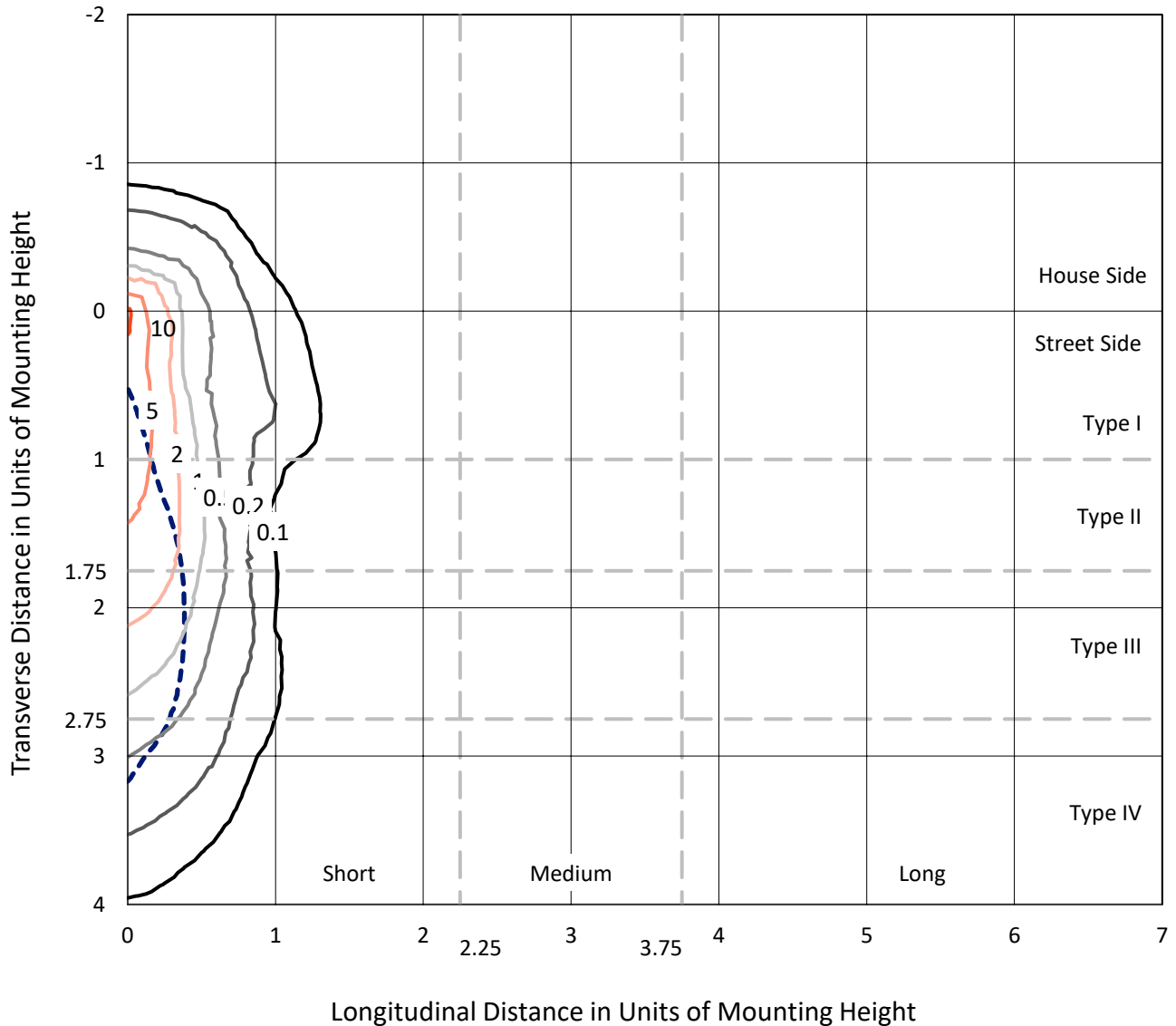




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Iso-Footcandle Lines of Horizontal Illumination

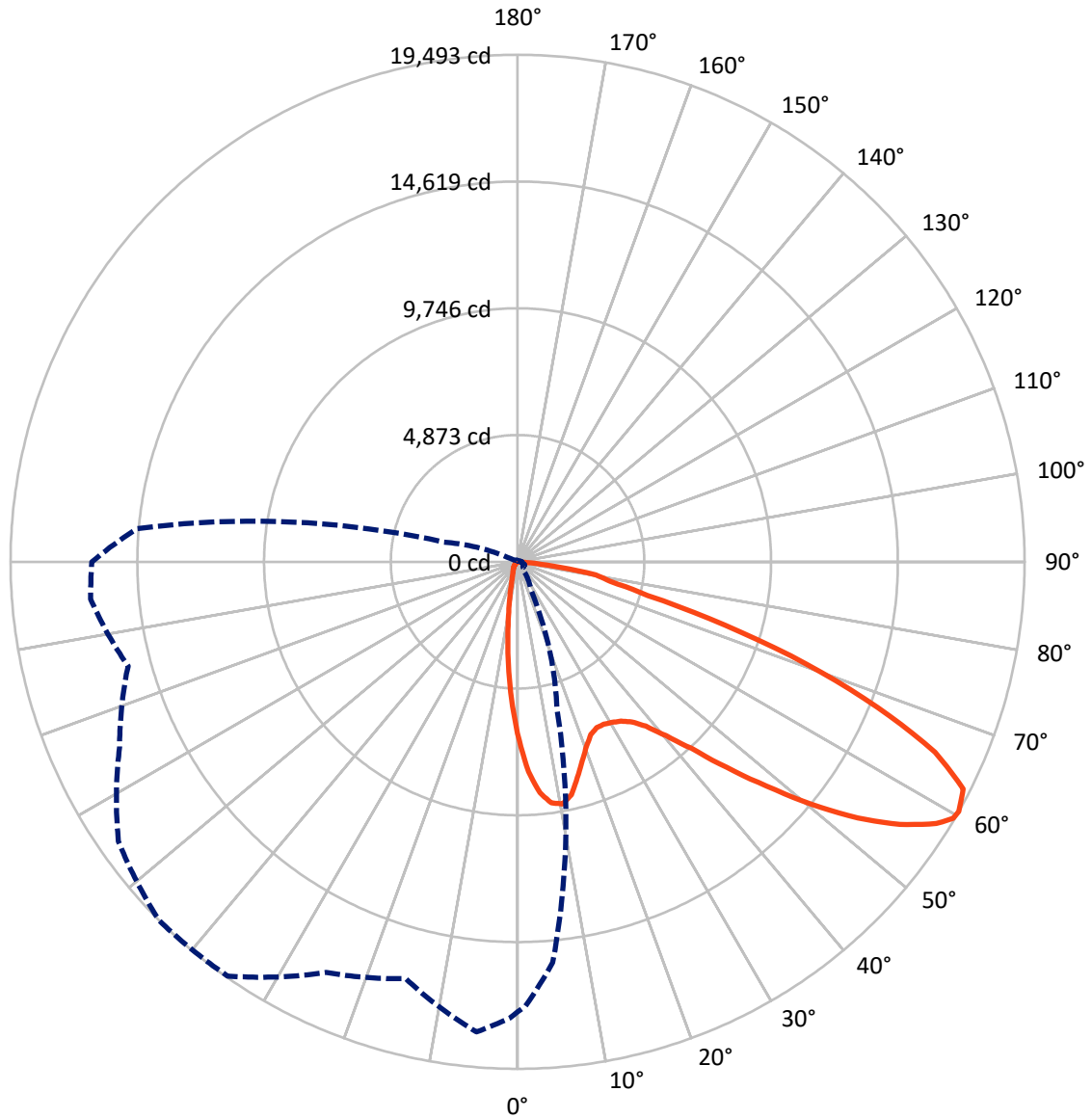
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 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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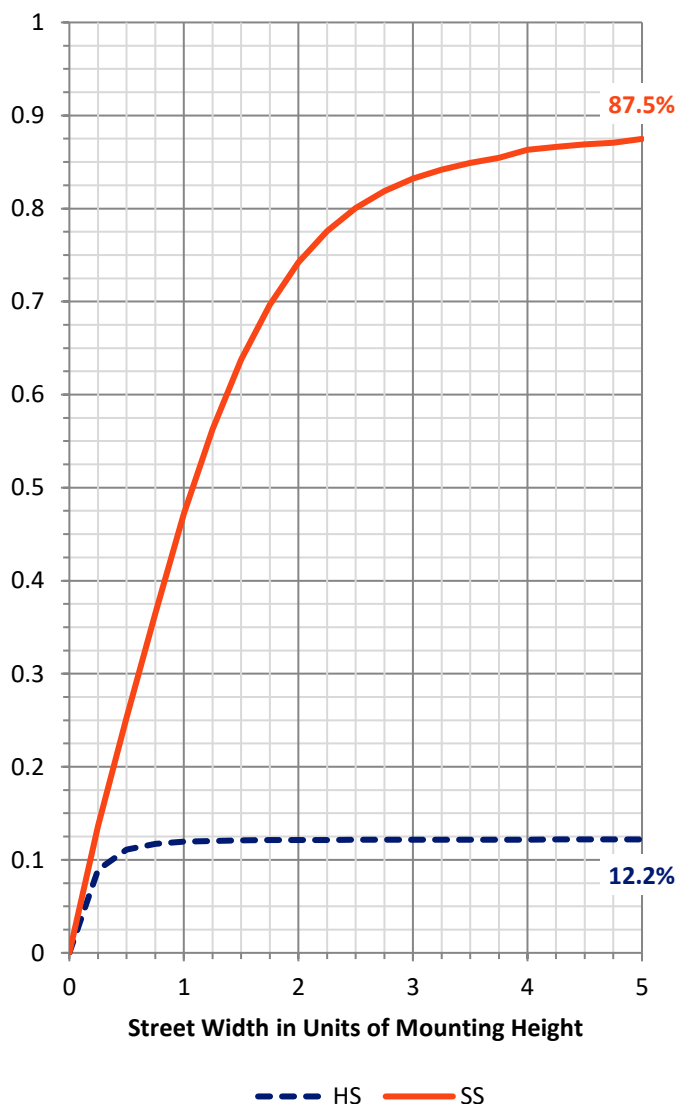
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2561.2	0.0	2561.2
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	18204.0	0.0	18204.0
	% Fixture	87.7	0.0	87.7
Total	Lumens	20765.2	0.0	20765.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	510.5	2.5
10°-20°	1013.8	4.9
20°-30°	1486.5	7.2
30°-40°	2210.6	10.6
40°-50°	3217.2	15.5
50°-60°	4639.4	22.3
60°-70°	5102.9	24.6
70°-80°	2285.7	11.0
80°-90°	298.7	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°	20765.2	100.0
0°-180°	20765.2	100.0

Coefficient of Utilization



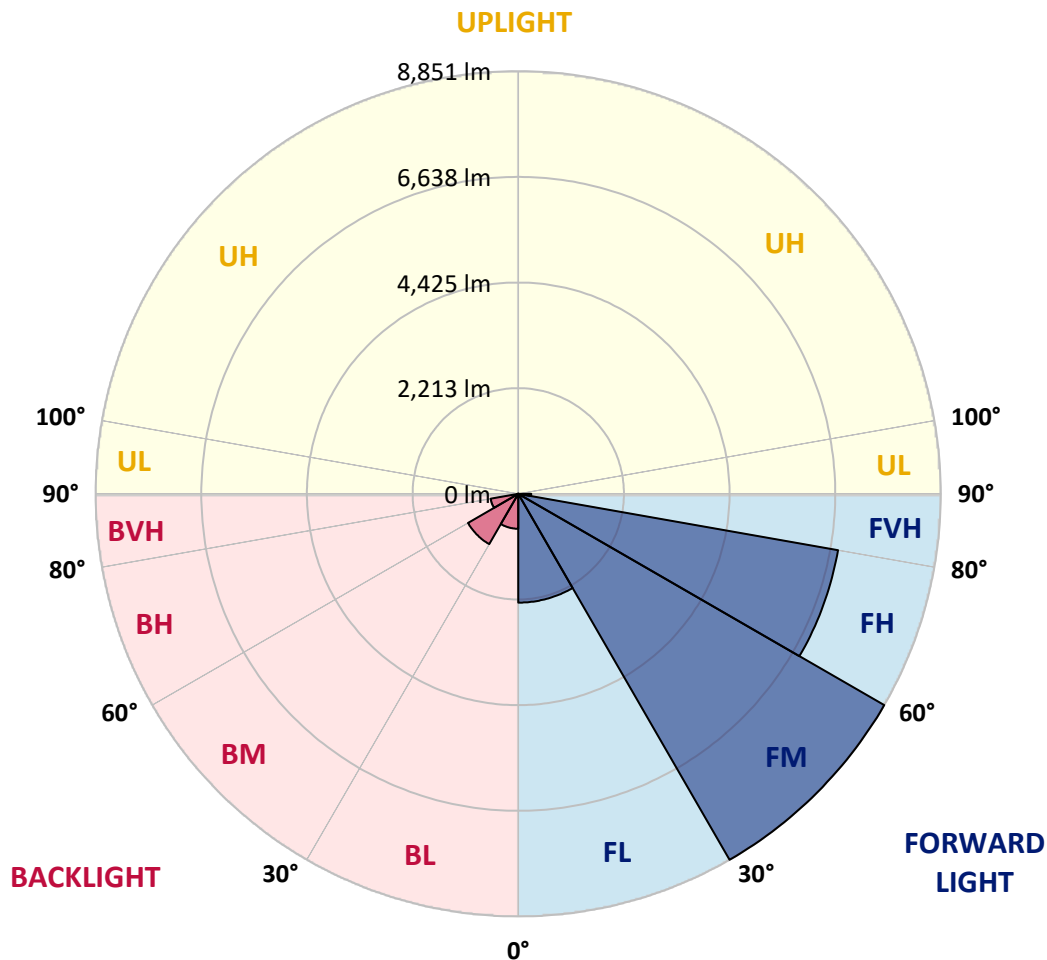
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2278.9	11.0			
FM (30°-60°)	8850.7	42.6			
FH (60°-80°)	6801.2	32.8			G3/7500
FVH (80°-90°)	273.1	1.3			G3/500
BL (0°-30°)	731.8	3.5	B2/1000		
BM (30°-60°)	1216.5	5.9	B2/2500		
BH (60°-80°)	587.3	2.8	B2/1000		G2/1000
BVH (80°-90°)	25.5	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°	6863.2	6863.2	6863.2	6863.2	6863.2	6863.2	6863.2	6863.2	6863.2	6863.2	6863.2
2.5°	7545.1	7511.9	7436.2	7205.7	7005.3	6743.2	6478.1	6269.7	6141.9	5906.6	5799.3
5°	7309.9	7325.7	7106.3	6632.7	6105.5	5745.7	5352.6	5040.0	4696.0	4478.1	4249.3
7.5°	6695.9	6664.3	6425.9	5766.2	5125.3	4604.4	4107.1	3703.1	3449.0	3245.3	3074.8
10°	6170.2	6146.6	5841.9	4992.7	4304.5	3914.6	3578.4	3224.8	2951.8	2653.4	2415.1
12.5°	5840.3	5786.7	5436.2	4549.2	3988.8	3625.8	3259.6	2891.8	2514.5	2213.0	1924.1
15°	5729.8	5652.5	5262.6	4396.0	3786.7	3325.9	2866.5	2443.5	2009.4	1676.3	1458.5
17.5°	5930.3	5802.4	5387.3	4369.2	3545.3	2934.4	2369.3	1818.4	1367.0	1112.8	978.7
20°	6389.7	6242.9	5703.0	4342.4	3276.9	2495.6	1801.1	1284.9	945.5	806.6	732.4
22.5°	7071.5	6869.5	6170.2	4385.0	3029.1	2067.8	1300.6	907.7	751.4	664.5	612.5
25°	7890.8	7721.9	6762.1	4536.5	2833.4	1731.6	1005.5	741.9	633.0	579.3	539.8
27.5°	8788.9	8519.0	7527.7	4718.0	2655.0	1471.1	882.4	663.0	563.5	514.6	494.1
30°	9428.2	9218.3	8168.6	4844.3	2432.4	1275.4	806.6	653.5	565.1	506.7	468.8
32.5°	10059.6	9791.3	8705.2	4902.8	2269.8	1139.7	697.7	569.8	495.6	465.7	427.8
35°	10735.2	10454.2	9240.3	4871.1	2148.3	1049.7	633.0	508.2	424.6	374.1	336.2
37.5°	11418.6	11121.9	9772.3	4757.5	2072.5	1013.4	582.5	483.0	400.9	348.8	307.8
40°	12230.0	11833.8	10271.1	4664.4	1993.6	994.4	549.3	467.2	383.6	328.3	287.3
42.5°	12893.0	12515.7	10743.1	4615.5	1940.0	950.2	549.3	454.6	372.6	310.9	268.3
45°	13521.2	13129.7	11252.9	4654.9	1917.8	895.0	555.6	453.0	364.6	298.3	255.7
47.5°	14046.8	13707.4	11776.9	4803.3	1889.5	835.0	522.5	475.1	359.9	287.3	243.1
50°	14667.2	14338.8	12469.9	5103.2	1839.0	775.0	481.5	511.5	358.3	277.8	232.0
52.5°	15541.6	15186.4	13426.5	5444.1	1758.4	683.5	443.6	506.7	352.0	262.0	221.0
55°	16610.2	16323.0	14534.5	5852.9	1647.9	580.9	383.6	449.8	333.1	235.2	202.0
57.5°	17295.3	17050.6	15364.8	6029.7	1479.0	475.1	337.8	377.2	304.7	209.9	179.9
59°	17375.8	17154.8	15538.5	5971.3	1368.5	434.1	315.7	323.6	296.8	195.8	167.3
60°	17307.9	17079.0	15469.0	5857.7	1266.0	405.7	296.8	287.3	298.3	187.8	157.9
62.5°	16872.2	16480.8	14795.0	5281.6	1106.5	372.6	263.6	235.2	263.6	168.9	140.5
65°	16030.9	15443.7	13461.2	4470.2	1043.3	353.6	224.2	197.3	200.4	148.4	121.5
67.5°	14561.4	13821.0	11685.4	3632.0	1016.6	355.2	189.4	176.8	154.7	126.3	107.3
70°	12237.9	11499.1	9376.1	2988.0	1003.9	355.2	161.0	151.5	129.4	105.8	93.1
72.5°	8672.1	7876.6	6324.9	2347.2	904.4	353.6	137.3	137.3	105.8	88.4	75.8
75°	4899.5	4905.9	3976.2	1660.6	751.4	292.0	110.5	108.9	77.4	67.9	56.8
77.5°	2855.4	2804.9	2680.2	713.5	348.8	132.6	77.4	66.3	53.6	48.9	41.0
80°	1468.0	1207.5	1176.0	258.9	124.7	83.6	53.6	37.9	34.8	31.6	28.4
82.5°	434.1	435.7	388.3	104.2	69.5	55.3	26.9	20.5	18.9	17.4	17.4
85°	30.0	18.9	22.1	31.6	42.6	22.1	1.6	4.7	4.7	6.3	7.9
87.5°	3.1	1.6	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°	6863.2	6863.2	6863.2	6863.2	6863.2	6863.2	6863.2	6863.2	6863.2	6863.2	6863.2
2.5°	5680.9	5750.4	5620.9	5624.1	5516.8	5551.5	5425.2	5466.2	5392.1	5448.9	5616.2
5°	4274.5	4290.3	4186.1	4153.0	4168.8	4233.4	4258.7	4143.5	4192.4	4096.1	4089.8
7.5°	3011.7	3030.7	2970.7	2962.8	3076.4	3049.6	3098.6	2980.2	2868.1	2917.0	2827.0
10°	2339.3	2260.4	2137.3	2102.5	2080.4	2094.6	2094.6	1987.3	1971.5	1928.9	1993.6
12.5°	1846.8	1750.6	1633.7	1475.9	1436.4	1433.3	1374.9	1280.1	1250.1	1213.8	1267.5
15°	1341.7	1302.2	1204.4	1116.0	1026.0	1008.7	913.9	836.6	734.0	719.8	715.0
17.5°	943.9	885.5	883.9	833.4	781.4	746.6	658.2	569.8	530.4	525.6	525.6
20°	707.1	686.6	653.5	647.1	631.4	591.9	513.0	465.7	446.7	448.3	454.6
22.5°	595.1	580.9	550.9	536.7	530.4	495.6	437.2	405.7	396.2	396.2	397.8
25°	532.0	519.3	486.2	464.1	456.2	430.9	385.2	361.4	353.6	353.6	353.6
27.5°	484.6	468.8	434.1	415.1	400.9	372.6	344.1	320.4	312.6	312.6	314.1
30°	451.5	434.1	402.5	377.2	355.2	329.9	306.2	285.7	276.2	274.7	276.2
32.5°	407.2	391.4	359.9	344.1	318.8	288.8	269.9	251.0	241.5	243.1	241.5
35°	317.3	312.6	290.4	295.2	280.9	255.7	238.3	217.8	206.8	205.2	208.4
37.5°	288.8	269.9	244.7	246.3	241.5	232.0	203.7	181.5	173.7	173.7	175.2
40°	266.8	247.8	219.4	205.2	206.8	206.8	176.8	153.1	145.2	143.6	146.8
42.5°	247.8	228.9	197.3	173.7	167.3	175.2	149.9	126.3	118.4	115.3	118.4
45°	235.2	214.7	178.4	151.5	132.6	142.0	123.1	104.2	94.7	94.7	93.1
47.5°	222.5	203.7	164.2	131.0	110.5	105.8	101.0	83.6	74.2	72.6	74.2
50°	211.5	192.5	148.4	113.6	93.1	82.1	82.1	66.3	60.0	56.8	58.4
52.5°	200.4	179.9	134.2	101.0	80.5	66.3	58.4	53.6	48.9	47.4	48.9
55°	184.7	164.2	120.0	86.8	69.5	55.3	45.8	44.2	41.0	37.9	41.0
57.5°	165.8	146.8	105.8	74.2	55.3	42.6	37.9	36.3	33.1	31.6	31.6
59°	154.7	137.3	97.9	64.8	48.9	37.9	34.8	33.1	30.0	26.9	28.4
60°	148.4	134.2	93.1	60.0	44.2	34.8	31.6	30.0	26.9	25.3	26.9
62.5°	131.0	120.0	82.1	48.9	34.8	25.3	22.1	23.6	22.1	20.5	22.1
65°	115.3	105.8	69.5	37.9	26.9	17.4	15.8	20.5	18.9	17.4	18.9
67.5°	102.6	91.5	58.4	28.4	18.9	9.5	11.0	17.4	17.4	15.8	17.4
70°	88.4	78.9	47.4	20.5	9.5	4.7	7.9	12.6	15.8	14.2	15.8
72.5°	72.6	61.5	36.3	14.2	4.7	0.0	4.7	11.0	15.8	14.2	15.8
75°	56.8	45.8	26.9	7.9	0.0	0.0	1.6	9.5	15.8	14.2	15.8
77.5°	41.0	33.1	15.8	1.6	0.0	0.0	1.6	9.5	15.8	14.2	15.8
80°	26.9	23.6	6.3	0.0	0.0	0.0	1.6	9.5	15.8	15.8	17.4
82.5°	17.4	12.6	0.0	0.0	0.0	0.0	3.1	12.6	17.4	18.9	18.9
85°	7.9	0.0	0.0	0.0	0.0	0.0	6.3	15.8	20.5	20.5	20.5
87.5°	0.0	0.0	0.0	0.0	0.0	3.1	11.0	18.9	23.6	23.6	23.6
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°	6863.2	6863.2	6863.2	6863.2	6863.2	6863.2	6863.2	6863.2	6863.2	6863.2	6863.2
2.5°	5644.6	5744.0	5884.6	6100.7	6276.0	6552.2	6763.7	7052.6	7344.6	7433.0	7570.4
5°	4154.5	4282.4	4601.2	4891.6	5074.8	5658.8	6028.2	6610.6	7133.1	7384.1	7657.1
7.5°	2885.4	3036.9	3280.1	3685.7	4070.9	4546.0	5142.7	5808.8	6574.3	6932.6	7317.8
10°	2025.2	2214.6	2557.1	2890.2	3374.7	3826.2	4414.9	5150.6	5995.0	6418.0	6901.0
12.5°	1278.6	1447.5	1900.5	2274.5	2879.1	3403.2	3946.2	4612.3	5590.9	6025.0	6531.7
15°	730.9	872.9	1084.4	1564.3	2235.1	2928.0	3605.2	4378.7	5384.1	5919.2	6467.0
17.5°	544.6	582.5	677.1	948.7	1559.5	2369.3	3291.1	4307.7	5524.6	6152.9	6778.0
20°	457.7	483.0	527.2	634.5	994.4	1824.7	2984.9	4320.3	5979.2	6768.5	7362.0
22.5°	410.4	426.2	462.5	532.0	678.7	1329.1	2626.6	4394.4	6530.1	7524.6	8209.6
25°	359.9	380.4	412.0	472.0	565.1	921.8	2273.0	4560.2	7302.0	8484.3	9128.3
27.5°	320.4	339.4	370.9	426.2	495.6	704.0	1861.0	4702.2	8116.5	9450.3	9977.5
30°	280.9	299.9	331.4	375.7	438.8	569.8	1417.5	4785.9	8907.3	10174.8	10580.4
32.5°	247.8	263.6	293.6	333.1	385.2	483.0	1117.6	4699.1	9511.9	10833.0	11104.5
35°	214.7	233.6	258.9	295.2	340.9	412.0	929.7	4399.2	10031.2	11510.2	11608.1
37.5°	179.9	202.0	228.9	262.0	298.3	378.8	746.6	4067.7	10586.8	12354.6	12193.7
40°	151.5	172.0	197.3	233.6	266.8	347.3	574.6	3714.2	11186.6	13147.0	12833.0
42.5°	123.1	145.2	175.2	208.4	263.6	303.1	445.1	3348.0	11724.9	13836.9	13410.7
45°	97.9	116.8	148.4	191.0	262.0	260.4	344.1	2986.4	12130.5	14329.4	13841.6
47.5°	77.4	93.1	124.7	186.3	241.5	221.0	276.2	2762.3	12556.7	14772.9	14171.5
50°	61.5	77.4	107.3	194.2	211.5	189.4	232.0	2798.6	12968.7	14998.6	14307.2
52.5°	52.1	67.9	93.1	153.1	162.6	165.8	203.7	2965.9	13500.6	15240.1	14577.2
55°	45.8	60.0	78.9	107.3	126.3	148.4	186.3	3087.4	14212.5	15757.9	15172.3
57.5°	36.3	52.1	71.0	91.5	104.2	129.4	172.0	3096.9	14856.6	16422.4	15963.0
59°	33.1	47.4	66.3	86.8	93.1	116.8	162.6	3016.4	14880.2	16521.8	16326.1
60°	30.0	45.8	63.1	80.5	88.4	110.5	154.7	2923.3	14665.6	16364.0	16476.0
62.5°	25.3	39.5	55.3	64.8	75.8	91.5	134.2	2585.5	13625.4	15649.0	16198.2
65°	22.1	34.8	47.4	53.6	63.1	78.9	118.4	2069.4	12476.2	14679.8	15402.7
67.5°	20.5	31.6	41.0	45.8	55.3	72.6	105.8	1461.6	10987.7	13450.1	14207.8
70°	18.9	30.0	36.3	42.6	48.9	61.5	90.0	852.4	8463.8	11293.9	12094.2
72.5°	18.9	28.4	31.6	36.3	42.6	55.3	83.6	460.9	5786.7	8615.3	9649.1
75°	18.9	26.9	28.4	31.6	37.9	50.5	74.2	241.5	3740.9	5985.6	7387.2
77.5°	18.9	25.3	28.4	30.0	36.3	44.2	64.8	151.5	2492.4	4192.4	4992.7
80°	20.5	25.3	26.9	30.0	34.8	41.0	53.6	101.0	1464.8	2522.4	3038.6
82.5°	22.1	25.3	28.4	31.6	36.3	39.5	47.4	63.1	675.6	1668.4	1887.8
85°	23.6	26.9	30.0	33.1	37.9	39.5	44.2	45.8	110.5	752.9	1018.1
87.5°	25.3	28.4	31.6	34.8	41.0	41.0	41.0	41.0	37.9	80.5	205.2
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: P648110

CATALOG NUMBER: GALN-SA8A-835-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6863.2	6863.2	6863.2	6863.2	6863.2	6863.2	6863.2	6863.2	6863.2	6863.2
2.5°	7743.9	7922.3	8047.0	8078.6	7988.6	7947.6	7833.9	7657.1	7549.8	7545.1
5°	8160.7	8578.9	8869.4	8918.4	8744.7	8451.2	8102.2	7652.4	7388.8	7309.9
7.5°	8089.6	8822.1	9289.3	9357.2	9065.2	8504.8	7829.2	7104.7	6817.4	6695.9
10°	7797.7	8691.1	9358.7	9466.1	9076.2	8287.0	7428.2	6620.1	6263.4	6170.2
12.5°	7548.3	8451.2	9044.6	9193.0	8897.9	8110.2	7188.3	6309.1	5927.2	5840.3
15°	7439.4	8167.0	8530.1	8605.8	8556.9	7999.7	7163.1	6261.8	5824.6	5729.8
17.5°	7548.3	7925.5	7971.3	8048.6	8157.5	7988.6	7406.2	6519.1	6047.1	5930.3
20°	7833.9	7715.5	7526.1	7559.3	7808.7	8034.4	7838.7	7088.9	6514.3	6389.7
22.5°	8320.1	7663.5	7234.1	7205.7	7521.4	8187.5	8473.2	7860.8	7194.7	7071.5
25°	8916.8	7794.5	7126.8	7065.2	7409.3	8411.7	9163.0	8806.2	8078.6	7890.8
27.5°	9567.1	8066.0	7126.8	7066.8	7399.9	8610.6	9753.4	9642.9	8994.1	8788.9
30°	9923.8	8290.1	7229.4	7161.5	7516.6	8725.8	10069.1	10386.3	9682.3	9428.2
32.5°	10242.7	8601.1	7429.9	7302.0	7761.3	8896.2	10351.6	11017.7	10230.1	10059.6
35°	10536.3	8934.1	7706.1	7557.7	8083.3	9129.9	10664.1	11680.6	10992.5	10735.2
37.5°	10859.9	9320.8	8137.0	8010.7	8621.6	9584.5	11035.1	12552.0	11742.3	11418.6
40°	11211.9	9769.2	8845.7	8792.1	9477.1	10099.1	11503.9	13481.7	12597.8	12230.0
42.5°	11570.2	10285.3	9713.9	9802.3	10446.3	10820.4	11985.3	14196.7	13298.6	12893.0
45°	11895.3	10945.1	10842.5	11279.7	11576.5	11524.4	12342.0	14700.3	13909.4	13521.2
47.5°	12305.7	11906.4	12207.9	12881.9	12889.7	12290.0	12611.9	15112.3	14435.1	14046.8
50°	12765.1	13041.3	13971.0	14657.7	14473.0	13042.9	12927.6	15600.0	14978.1	14667.2
52.5°	13297.0	14312.0	15600.0	16362.4	15931.5	13863.7	13453.3	16127.2	15839.9	15541.6
55°	13915.8	15178.5	17224.3	17832.0	17397.9	14883.4	14252.0	16842.3	16813.8	16610.2
57.5°	14615.0	16094.1	18165.1	18987.4	18600.7	16079.8	15367.9	17516.3	17408.9	17295.3
59°	15167.5	16564.4	18580.1	19432.5	19198.9	16918.0	16117.7	17936.1	17546.2	17375.8
60°	15502.1	16883.3	18733.3	19492.5	19438.8	17416.8	16592.9	18141.3	17544.7	17307.9
62.5°	16495.0	17440.5	18674.9	19225.8	19435.7	18373.4	17986.7	18367.1	17219.5	16872.2
65°	16848.6	17255.8	17707.2	17639.4	17819.4	18324.5	18876.9	18119.2	16525.0	16030.9
67.5°	16160.3	15230.7	15390.1	14937.1	14848.7	16291.4	18515.4	16907.0	15165.9	14561.4
70°	13622.2	11668.0	11587.5	11795.9	11224.5	13189.7	16626.0	14572.4	12922.9	12237.9
72.5°	10722.6	8245.9	7567.1	8334.3	8316.9	10062.7	13811.6	10340.5	8730.5	8672.1
75°	8432.2	5740.9	5038.4	5163.2	5403.1	7284.6	11000.4	6566.4	5376.2	4899.5
77.5°	5660.4	4067.7	3794.7	3641.5	3900.4	4677.0	6959.5	3561.0	3014.9	2855.4
80°	3262.7	2954.9	3355.9	3046.4	3185.3	2947.0	3461.6	1633.7	1355.9	1468.0
82.5°	2123.0	1682.7	1793.1	1332.2	1821.6	1837.3	1111.2	483.0	408.8	434.1
85°	1327.5	789.3	443.6	315.7	628.2	1155.5	347.3	30.0	34.8	30.0
87.5°	344.1	131.0	55.3	82.1	101.0	90.0	80.5	4.7	1.6	3.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)