

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: P647890

Luminaire Tested: **GALN-SA4A-835-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647890
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-SA4A-835-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 10172.8 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 121
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

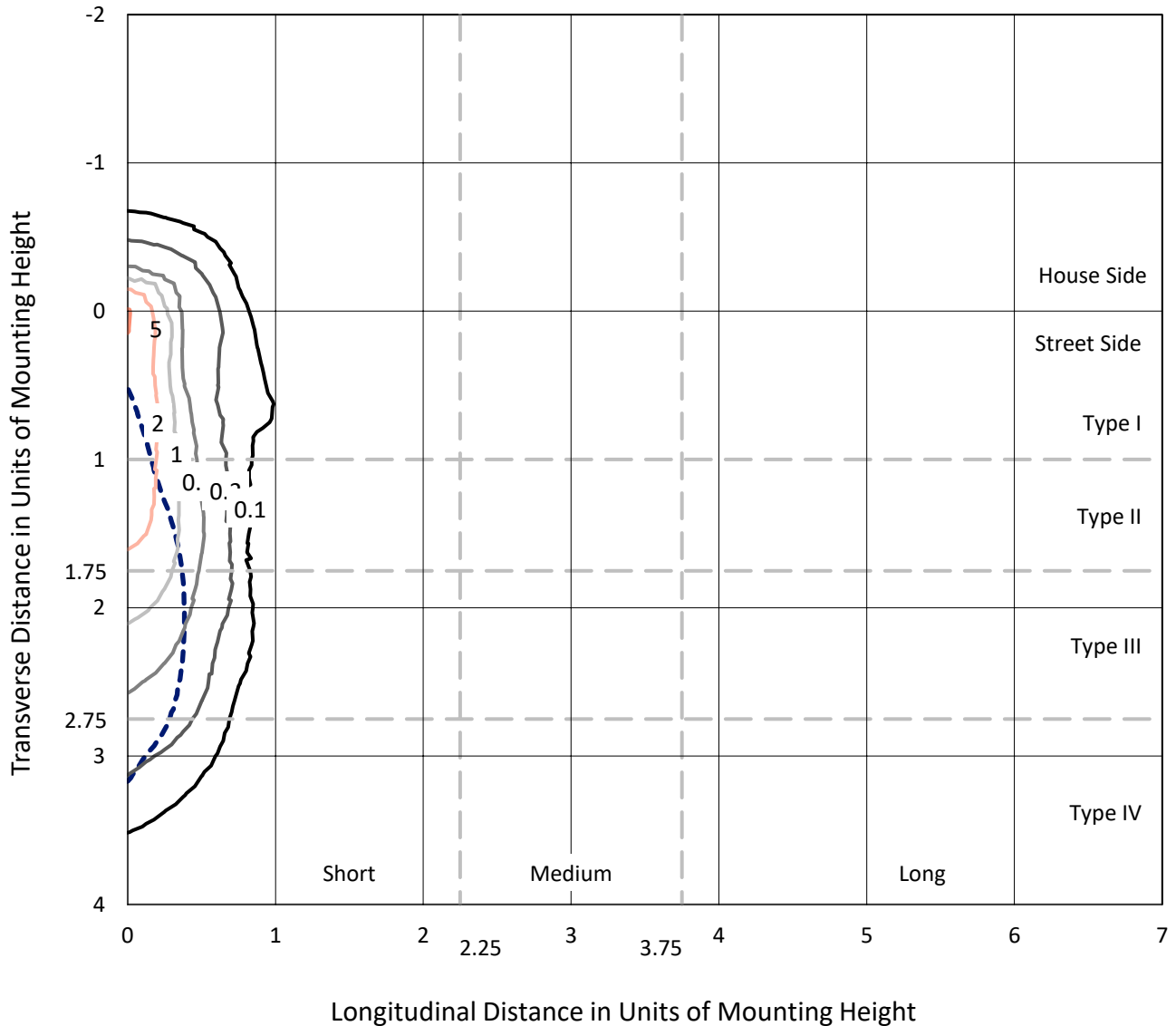




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Iso-Footcandle Lines of Horizontal Illumination

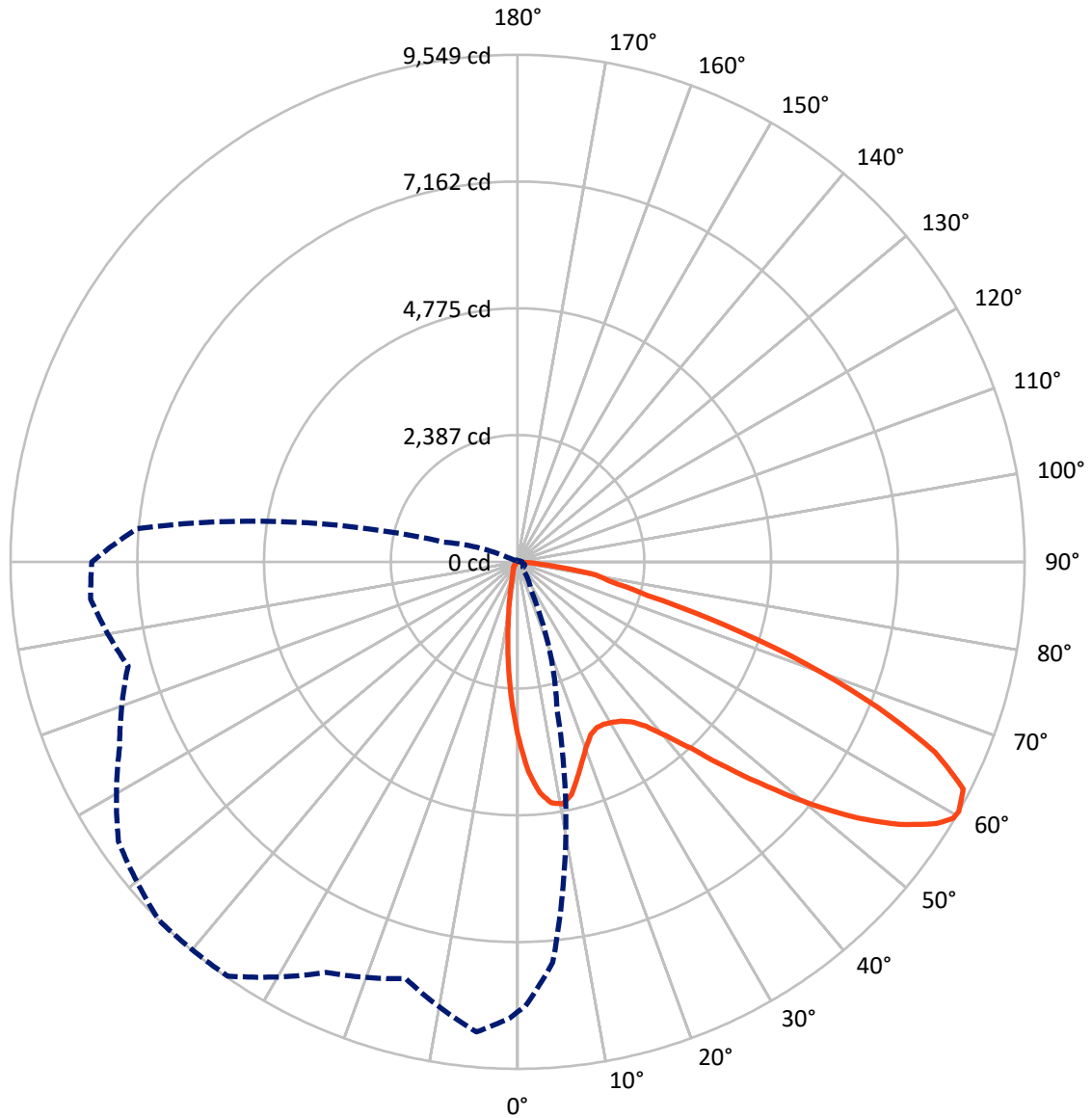
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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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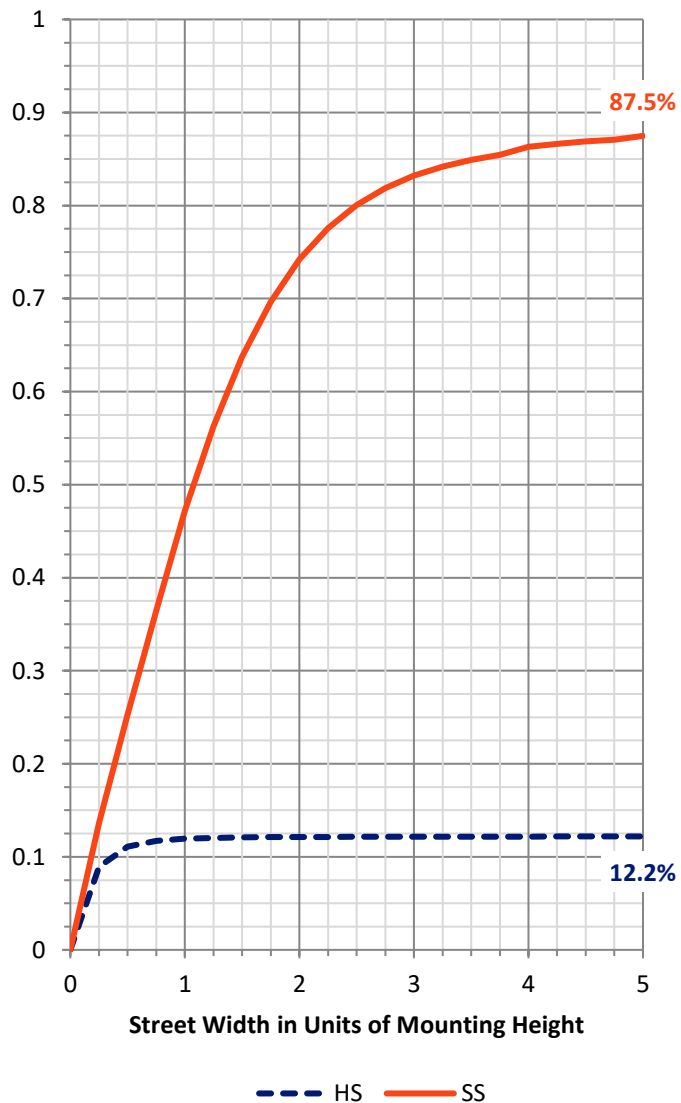
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1254.7	0.0	1254.7
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	8918.0	0.0	8918.0
	% Fixture	87.7	0.0	87.7
Total	Lumens	10172.8	0.0	10172.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.1	2.5
10°-20°	496.6	4.9
20°-30°	728.2	7.2
30°-40°	1083.0	10.6
40°-50°	1576.1	15.5
50°-60°	2272.8	22.3
60°-70°	2499.9	24.6
70°-80°	1119.7	11.0
80°-90°	146.3	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°	10172.8	100.0
0°-180°	10172.8	100.0

Coefficient of Utilization

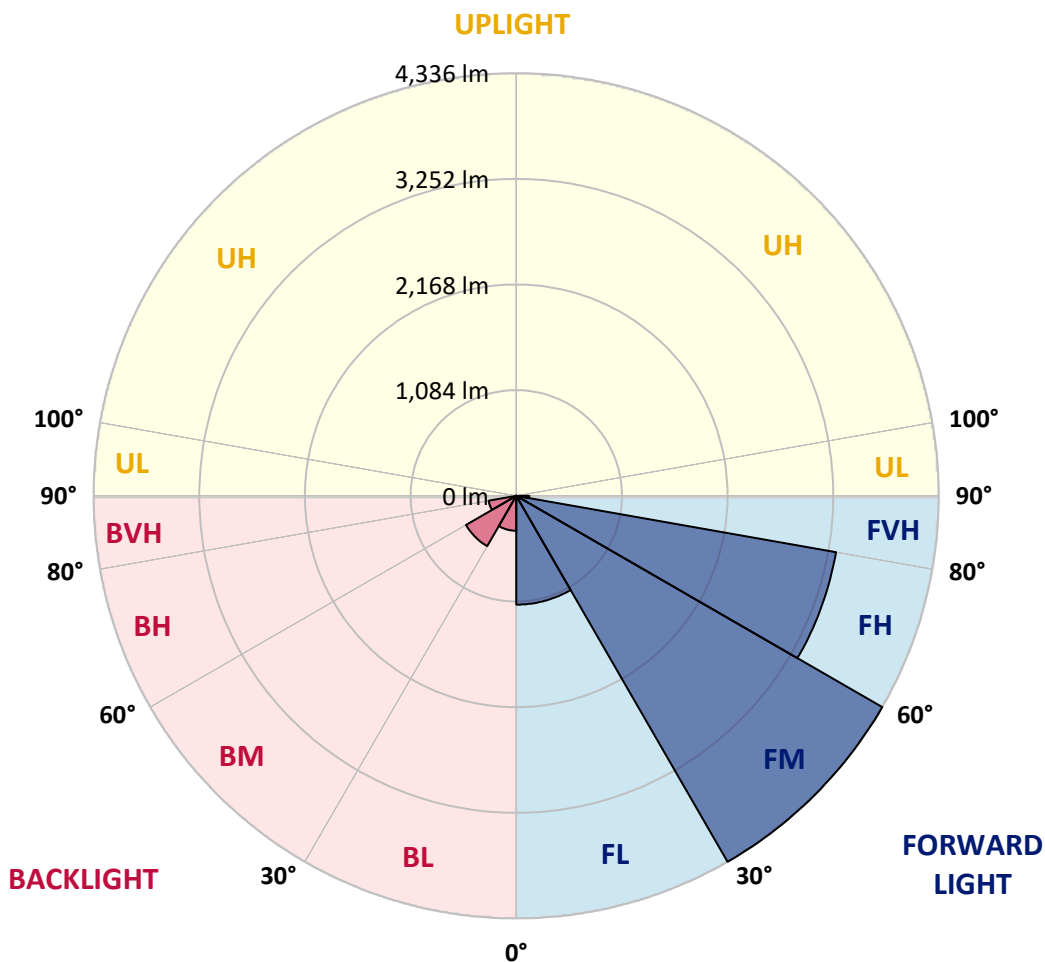


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1116.4	11.0			
FM (30°-60°)	4335.9	42.6			
FH (60°-80°)	3331.9	32.8			G2/5000
FVH (80°-90°)	133.8	1.3			G2/225
BL (0°-30°)	358.5	3.5	B1/500		
BM (30°-60°)	596.0	5.9	B1/1000		
BH (60°-80°)	287.7	2.8	B1/500		G1/500
BVH (80°-90°)	12.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3362.2	3362.2	3362.2	3362.2	3362.2	3362.2	3362.2	3362.2	3362.2	3362.2	3362.2
2.5°	3696.3	3680.0	3642.9	3530.0	3431.8	3303.5	3173.6	3071.5	3008.8	2893.7	2841.0
5°	3581.1	3588.8	3481.3	3249.4	2991.1	2814.7	2622.2	2469.1	2300.5	2193.8	2081.7
7.5°	3280.3	3264.8	3148.1	2824.8	2510.8	2255.7	2012.1	1814.1	1689.6	1589.9	1506.3
10°	3022.8	3011.2	2861.9	2445.9	2108.8	1917.7	1753.1	1579.8	1446.0	1299.9	1183.1
12.5°	2861.2	2834.9	2663.2	2228.6	1954.1	1776.2	1596.9	1416.7	1231.8	1084.1	942.7
15°	2807.1	2769.2	2578.1	2153.6	1855.1	1629.3	1404.3	1197.1	984.4	821.2	714.5
17.5°	2905.2	2842.6	2639.2	2140.4	1736.8	1437.5	1160.7	890.8	669.7	545.2	479.4
20°	3130.3	3058.3	2793.9	2127.3	1605.3	1222.6	882.3	629.5	463.2	395.2	358.8
22.5°	3464.3	3365.3	3022.8	2148.2	1483.9	1013.0	637.2	444.7	368.1	325.6	300.0
25°	3865.7	3782.9	3312.7	2222.4	1388.0	848.3	492.6	363.5	310.1	283.8	264.5
27.5°	4305.6	4173.4	3687.8	2311.3	1300.6	720.7	432.3	324.8	276.1	252.1	242.0
30°	4618.8	4516.0	4001.8	2373.2	1191.6	624.8	395.2	320.2	276.9	248.2	229.7
32.5°	4928.1	4796.7	4264.7	2401.9	1112.0	558.3	341.8	279.1	242.8	228.1	209.5
35°	5259.1	5121.4	4526.8	2386.3	1052.4	514.2	310.1	249.0	208.0	183.3	164.7
37.5°	5593.9	5448.6	4787.4	2330.7	1015.3	496.4	285.3	236.6	196.4	170.9	150.8
40°	5991.4	5797.3	5031.7	2285.0	976.6	487.2	269.1	228.9	187.9	160.8	140.7
42.5°	6316.1	6131.4	5262.9	2261.1	950.3	465.5	269.1	222.7	182.5	152.4	131.5
45°	6623.9	6432.2	5512.7	2280.4	939.5	438.5	272.2	221.9	178.6	146.2	125.3
47.5°	6881.5	6715.2	5769.5	2353.1	925.6	409.0	256.0	232.8	176.3	140.7	119.1
50°	7185.4	7024.5	6109.0	2500.0	900.8	379.7	235.8	250.6	175.5	136.1	113.7
52.5°	7613.7	7439.8	6577.5	2667.1	861.5	334.8	217.3	248.2	172.4	128.3	108.3
55°	8137.2	7996.5	7120.4	2867.3	807.3	284.5	187.9	220.4	163.2	115.3	99.0
57.5°	8472.8	8353.0	7527.1	2953.9	724.6	232.8	165.4	184.8	149.2	102.8	88.2
59°	8512.3	8404.0	7612.2	2925.4	670.4	212.7	154.6	158.6	145.4	95.9	82.0
60°	8479.0	8366.9	7578.2	2869.6	620.1	198.7	145.4	140.7	146.2	92.0	77.4
62.5°	8265.7	8073.8	7248.0	2587.4	542.1	182.5	129.1	115.3	129.1	82.8	68.8
65°	7853.5	7565.8	6594.6	2190.0	511.1	173.2	109.8	96.6	98.2	72.7	59.5
67.5°	7133.5	6770.8	5724.6	1779.3	498.0	174.0	92.8	86.6	75.8	61.9	52.6
70°	5995.3	5633.4	4593.3	1463.8	491.8	174.0	78.8	74.2	63.4	51.8	45.6
72.5°	4248.4	3858.7	3098.6	1149.8	443.1	173.2	67.3	67.3	51.8	43.3	37.1
75°	2400.3	2403.3	1947.9	813.5	368.1	143.1	54.1	53.3	37.9	33.3	27.9
77.5°	1398.9	1374.1	1313.0	349.5	170.9	65.0	37.9	32.5	26.3	24.0	20.1
80°	719.2	591.6	576.1	126.8	61.1	41.0	26.3	18.6	17.0	15.5	13.9
82.5°	212.7	213.4	190.2	51.1	34.1	27.1	13.2	10.0	9.3	8.5	8.5
85°	14.7	9.3	10.8	15.5	20.9	10.8	0.8	2.3	2.3	3.1	3.8
87.5°	1.6	0.8	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°	3362.2	3362.2	3362.2	3362.2	3362.2	3362.2	3362.2	3362.2	3362.2	3362.2	3362.2
2.5°	2783.0	2817.1	2753.7	2755.2	2702.6	2719.7	2657.7	2677.9	2641.5	2669.4	2751.3
5°	2094.1	2101.8	2050.8	2034.5	2042.2	2073.9	2086.3	2029.8	2053.8	2006.7	2003.5
7.5°	1475.4	1484.7	1455.3	1451.4	1507.1	1494.0	1517.9	1460.0	1405.1	1429.1	1385.0
10°	1146.0	1107.3	1047.0	1030.0	1019.2	1026.1	1026.1	973.6	965.8	944.9	976.6
12.5°	904.8	857.5	800.4	723.0	703.7	702.1	673.5	627.1	612.5	594.7	620.9
15°	657.3	638.0	590.0	546.7	502.6	494.2	447.7	409.8	359.6	352.6	350.3
17.5°	462.4	433.8	433.1	408.3	382.8	365.7	322.4	279.1	259.8	257.5	257.5
20°	346.4	336.4	320.2	317.0	309.3	289.9	251.3	228.1	218.8	219.6	222.7
22.5°	291.5	284.5	269.9	262.9	259.8	242.8	214.2	198.7	194.1	194.1	194.9
25°	260.6	254.4	238.2	227.4	223.5	211.1	188.7	177.1	173.2	173.2	173.2
27.5°	237.4	229.7	212.7	203.3	196.4	182.5	168.6	157.0	153.1	153.1	153.9
30°	221.2	212.7	197.2	184.8	174.0	161.6	150.0	140.0	135.3	134.5	135.3
32.5°	199.5	191.8	176.3	168.6	156.2	141.5	132.2	122.9	118.3	119.1	118.3
35°	155.4	153.1	142.3	144.6	137.7	125.3	116.7	106.7	101.3	100.5	102.1
37.5°	141.5	132.2	119.9	120.7	118.3	113.7	99.8	88.9	85.0	85.0	85.8
40°	130.7	121.4	107.5	100.5	101.3	101.3	86.6	75.0	71.2	70.4	71.9
42.5°	121.4	112.1	96.6	85.0	82.0	85.8	73.4	61.9	58.0	56.5	58.0
45°	115.3	105.2	87.4	74.2	65.0	69.6	60.3	51.1	46.4	46.4	45.6
47.5°	109.1	99.8	80.4	64.2	54.1	51.8	49.5	41.0	36.3	35.5	36.3
50°	103.6	94.4	72.7	55.7	45.6	40.2	40.2	32.5	29.4	27.9	28.6
52.5°	98.2	88.2	65.7	49.5	39.5	32.5	28.6	26.3	24.0	23.2	24.0
55°	90.4	80.4	58.8	42.5	34.1	27.1	22.4	21.7	20.1	18.6	20.1
57.5°	81.2	71.9	51.8	36.3	27.1	20.9	18.6	17.8	16.2	15.5	15.5
59°	75.8	67.3	47.9	31.7	24.0	18.6	17.0	16.2	14.7	13.2	13.9
60°	72.7	65.7	45.6	29.4	21.7	17.0	15.5	14.7	13.2	12.4	13.2
62.5°	64.2	58.8	40.2	24.0	17.0	12.4	10.8	11.6	10.8	10.0	10.8
65°	56.5	51.8	34.1	18.6	13.2	8.5	7.8	10.0	9.3	8.5	9.3
67.5°	50.3	44.9	28.6	13.9	9.3	4.6	5.4	8.5	8.5	7.8	8.5
70°	43.3	38.7	23.2	10.0	4.6	2.3	3.8	6.2	7.8	7.0	7.8
72.5°	35.5	30.1	17.8	7.0	2.3	0.0	2.3	5.4	7.8	7.0	7.8
75°	27.9	22.4	13.2	3.8	0.0	0.0	0.8	4.6	7.8	7.0	7.8
77.5°	20.1	16.2	7.8	0.8	0.0	0.0	0.8	4.6	7.8	7.0	7.8
80°	13.2	11.6	3.1	0.0	0.0	0.0	0.8	4.6	7.8	7.8	8.5
82.5°	8.5	6.2	0.0	0.0	0.0	0.0	1.6	6.2	8.5	9.3	9.3
85°	3.8	0.0	0.0	0.0	0.0	0.0	3.1	7.8	10.0	10.0	10.0
87.5°	0.0	0.0	0.0	0.0	0.0	1.6	5.4	9.3	11.6	11.6	11.6
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°	3362.2	3362.2	3362.2	3362.2	3362.2	3362.2	3362.2	3362.2	3362.2	3362.2	3362.2
2.5°	2765.2	2813.9	2882.8	2988.7	3074.6	3209.9	3313.5	3455.1	3598.1	3641.4	3708.7
5°	2035.3	2097.9	2254.1	2396.4	2486.1	2772.2	2953.2	3238.5	3494.5	3617.4	3751.2
7.5°	1413.5	1487.8	1606.9	1805.6	1994.3	2227.1	2519.4	2845.7	3220.7	3396.3	3585.0
10°	992.1	1084.9	1252.7	1415.9	1653.3	1874.4	2162.9	2523.2	2937.0	3144.1	3380.8
12.5°	626.3	709.1	931.1	1114.3	1410.5	1667.2	1933.2	2259.5	2738.9	2951.6	3199.8
15°	358.1	427.6	531.3	766.3	1094.9	1434.5	1766.2	2145.1	2637.7	2899.8	3168.2
17.5°	266.8	285.3	331.8	464.7	764.0	1160.7	1612.3	2110.3	2706.5	3014.2	3320.5
20°	224.3	236.6	258.3	310.9	487.2	894.0	1462.3	2116.4	2929.2	3315.8	3606.6
22.5°	201.1	208.7	226.6	260.6	332.5	651.1	1286.7	2152.9	3199.1	3686.2	4021.9
25°	176.3	186.4	201.9	231.2	276.9	451.6	1113.5	2234.0	3577.2	4156.4	4471.9
27.5°	157.0	166.2	181.7	208.7	242.8	344.9	911.7	2303.6	3976.2	4629.6	4888.0
30°	137.7	146.9	162.4	184.0	215.0	279.1	694.4	2344.6	4363.7	4984.6	5183.3
32.5°	121.4	129.1	143.8	163.2	188.7	236.6	547.5	2302.1	4659.8	5307.0	5440.0
35°	105.2	114.5	126.8	144.6	167.0	201.9	455.5	2155.1	4914.2	5638.8	5686.7
37.5°	88.2	99.0	112.1	128.3	146.2	185.6	365.7	1992.7	5186.4	6052.5	5973.6
40°	74.2	84.3	96.6	114.5	130.7	170.1	281.5	1819.5	5480.3	6440.6	6286.8
42.5°	60.3	71.2	85.8	102.1	129.1	148.5	218.1	1640.2	5743.9	6778.6	6569.8
45°	47.9	57.2	72.7	93.6	128.3	127.6	168.6	1463.0	5942.7	7019.8	6780.9
47.5°	37.9	45.6	61.1	91.2	118.3	108.3	135.3	1353.3	6151.5	7237.2	6942.5
50°	30.1	37.9	52.6	95.1	103.6	92.8	113.7	1371.0	6353.3	7347.8	7009.0
52.5°	25.5	33.3	45.6	75.0	79.6	81.2	99.8	1453.0	6613.9	7466.1	7141.3
55°	22.4	29.4	38.7	52.6	61.9	72.7	91.2	1512.5	6962.7	7719.7	7432.8
57.5°	17.8	25.5	34.8	44.9	51.1	63.4	84.3	1517.2	7278.1	8045.2	7820.2
59°	16.2	23.2	32.5	42.5	45.6	57.2	79.6	1477.8	7289.7	8093.9	7998.0
60°	14.7	22.4	30.9	39.5	43.3	54.1	75.8	1432.1	7184.6	8016.6	8071.6
62.5°	12.4	19.3	27.1	31.7	37.1	44.9	65.7	1266.7	6675.0	7666.4	7935.4
65°	10.8	17.0	23.2	26.3	30.9	38.7	58.0	1013.8	6112.0	7191.5	7545.7
67.5°	10.0	15.5	20.1	22.4	27.1	35.5	51.8	716.1	5382.8	6589.2	6960.3
70°	9.3	14.7	17.8	20.9	24.0	30.1	44.1	417.6	4146.4	5532.8	5924.9
72.5°	9.3	13.9	15.5	17.8	20.9	27.1	41.0	225.8	2834.9	4220.6	4727.0
75°	9.3	13.2	13.9	15.5	18.6	24.7	36.3	118.3	1832.7	2932.3	3618.9
77.5°	9.3	12.4	13.9	14.7	17.8	21.7	31.7	74.2	1221.0	2053.8	2445.9
80°	10.0	12.4	13.2	14.7	17.0	20.1	26.3	49.5	717.6	1235.7	1488.6
82.5°	10.8	12.4	13.9	15.5	17.8	19.3	23.2	30.9	331.0	817.4	924.9
85°	11.6	13.2	14.7	16.2	18.6	19.3	21.7	22.4	54.1	368.9	498.8
87.5°	12.4	13.9	15.5	17.0	20.1	20.1	20.1	20.1	18.6	39.5	100.5
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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 CATALOG NUMBER: GALN-SA4A-835-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3362.2	3362.2	3362.2	3362.2	3362.2	3362.2	3362.2	3362.2	3362.2	3362.2
2.5°	3793.7	3881.1	3942.2	3957.7	3913.6	3893.5	3837.8	3751.2	3698.6	3696.3
5°	3997.8	4202.8	4345.1	4369.1	4283.9	4140.2	3969.3	3748.8	3619.7	3581.1
7.5°	3963.1	4321.8	4550.8	4584.0	4440.9	4166.4	3835.4	3480.5	3339.8	3280.3
10°	3820.0	4257.7	4584.8	4637.4	4446.3	4059.7	3639.1	3243.2	3068.4	3022.8
12.5°	3697.9	4140.2	4430.9	4503.6	4359.0	3973.1	3521.5	3090.8	2903.7	2861.2
15°	3644.5	4001.0	4178.8	4215.9	4191.9	3919.0	3509.2	3067.6	2853.4	2807.1
17.5°	3697.9	3882.7	3905.1	3943.0	3996.4	3913.6	3628.3	3193.6	2962.5	2905.2
20°	3837.8	3779.8	3687.0	3703.3	3825.4	3936.0	3840.1	3472.8	3191.4	3130.3
22.5°	4076.0	3754.3	3543.9	3530.0	3684.7	4011.0	4151.0	3851.0	3524.6	3464.3
25°	4368.3	3818.5	3491.4	3461.3	3629.8	4120.9	4488.9	4314.2	3957.7	3865.7
27.5°	4686.9	3951.5	3491.4	3462.0	3625.1	4218.3	4778.1	4724.0	4406.2	4305.6
30°	4861.6	4061.3	3541.7	3508.4	3682.4	4274.7	4932.7	5088.2	4743.3	4618.8
32.5°	5017.9	4213.6	3639.9	3577.2	3802.2	4358.3	5071.2	5397.5	5011.7	4928.1
35°	5161.7	4376.8	3775.2	3702.5	3959.9	4472.7	5224.3	5722.3	5385.2	5259.1
37.5°	5320.2	4566.2	3986.3	3924.4	4223.7	4695.3	5406.0	6149.1	5752.5	5593.9
40°	5492.7	4785.9	4333.5	4307.2	4642.8	4947.5	5635.7	6604.6	6171.6	5991.4
42.5°	5668.1	5038.7	4758.8	4802.1	5117.6	5300.8	5871.6	6954.9	6514.9	6316.1
45°	5827.5	5361.9	5311.7	5525.9	5671.3	5645.7	6046.3	7201.6	6814.1	6623.9
47.5°	6028.6	5832.9	5980.6	6310.7	6314.7	6020.8	6178.5	7403.4	7071.7	6881.5
50°	6253.5	6388.9	6844.4	7180.7	7090.2	6389.7	6333.2	7642.4	7337.6	7185.4
52.5°	6514.2	7011.4	7642.4	8015.9	7804.7	6791.7	6590.7	7900.6	7759.9	7613.7
55°	6817.3	7435.9	8438.1	8735.8	8523.1	7291.3	6982.0	8250.9	8237.0	8137.2
57.5°	7159.8	7884.4	8899.0	9301.8	9112.4	7877.4	7528.7	8581.1	8528.5	8472.8
59°	7430.5	8114.9	9102.3	9519.9	9405.5	8288.1	7896.0	8786.8	8595.9	8512.3
60°	7594.4	8271.1	9177.3	9549.2	9523.0	8532.4	8128.7	8887.4	8595.1	8479.0
62.5°	8080.8	8544.0	9148.7	9418.6	9521.4	9001.0	8811.6	8997.9	8435.7	8265.7
65°	8254.0	8453.5	8674.7	8641.4	8729.6	8977.0	9247.7	8876.5	8095.5	7853.5
67.5°	7916.8	7461.4	7539.5	7317.6	7274.3	7981.0	9070.6	8282.7	7429.7	7133.5
70°	6673.4	5716.1	5676.7	5778.8	5498.9	6461.6	8145.0	7138.9	6330.9	5995.3
72.5°	5252.9	4039.7	3707.1	4083.0	4074.4	4929.7	6766.2	5065.8	4277.1	4248.4
75°	4130.9	2812.5	2468.3	2529.4	2646.9	3568.7	5389.0	3216.9	2633.8	2400.3
77.5°	2773.0	1992.7	1859.0	1784.0	1910.8	2291.2	3409.4	1744.5	1477.0	1398.9
80°	1598.3	1447.6	1644.0	1492.4	1560.5	1443.7	1695.8	800.4	664.2	719.2
82.5°	1040.1	824.3	878.4	652.6	892.4	900.1	544.4	236.6	200.3	212.7
85°	650.4	386.6	217.3	154.6	307.8	566.0	170.1	14.7	17.0	14.7
87.5°	168.6	64.2	27.1	40.2	49.5	44.1	39.5	2.3	0.8	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)