

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: P452696

Luminaire Tested: **GALN-SA3C-830-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452696
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-SA3C-830-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA 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: 11977 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 160
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

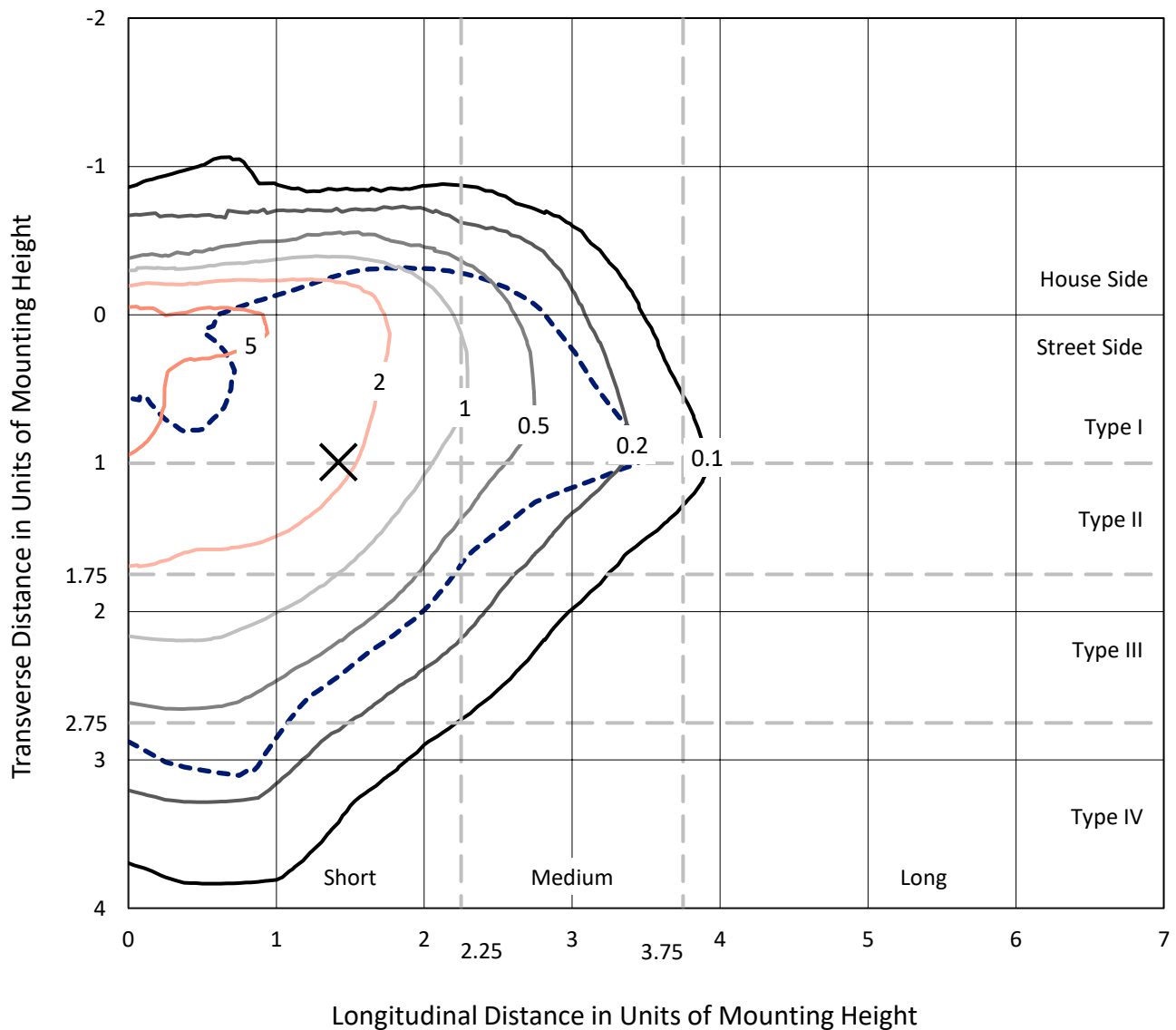


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

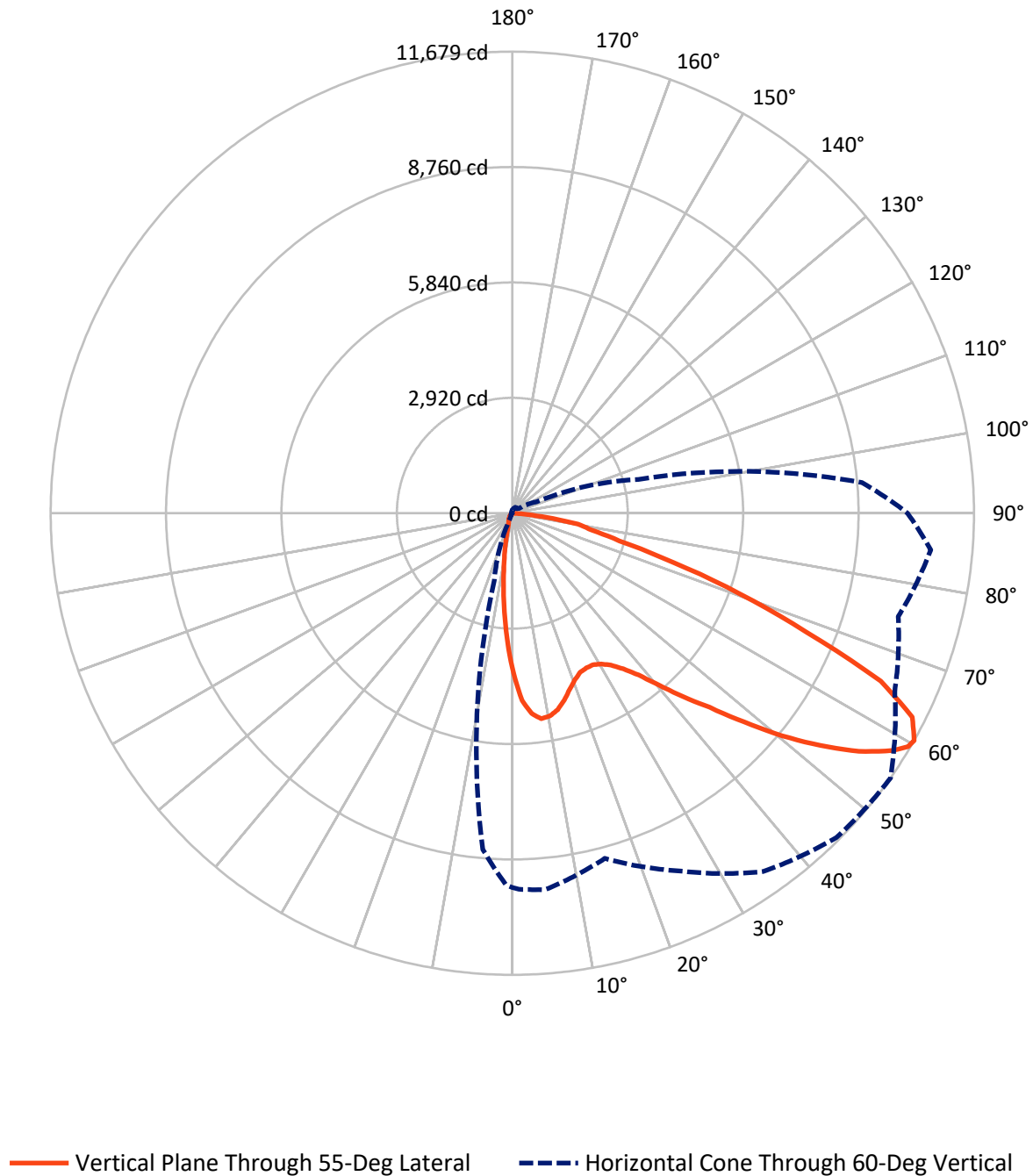


Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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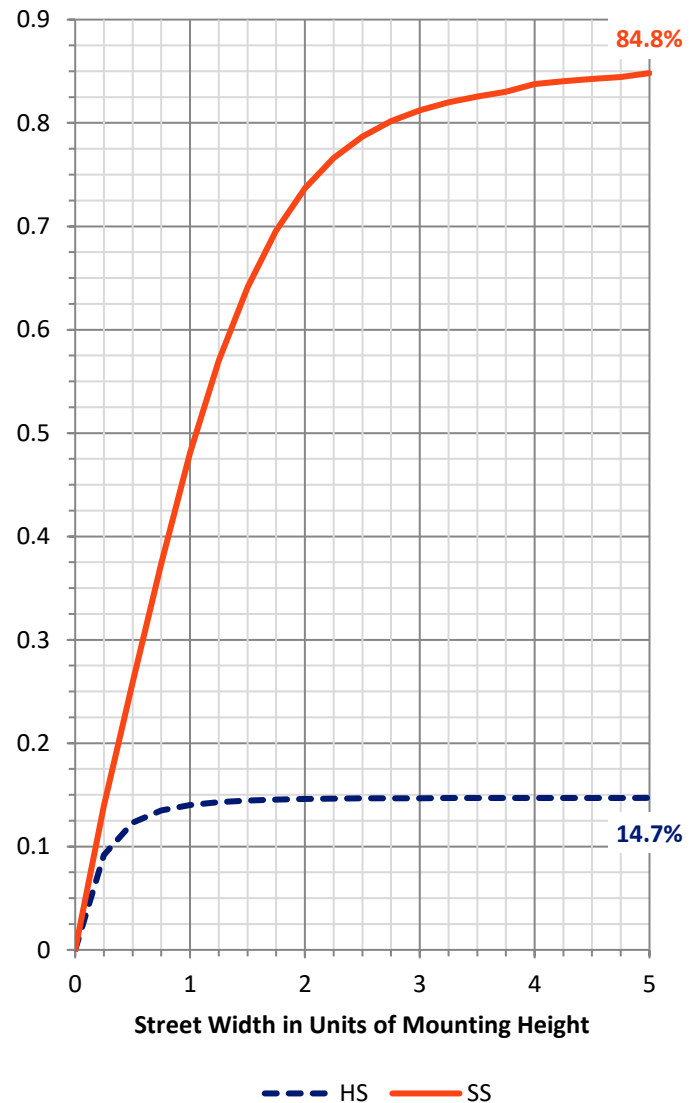
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1777.5	0.0	1777.5
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	10199.5	0.0	10199.5
	% Fixture	85.2	0.0	85.2
Total	Lumens	11977.0	0.0	11977.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.3	2.5
10°-20°	591.4	4.9
20°-30°	875.3	7.3
30°-40°	1304.8	10.9
40°-50°	1910.9	16.0
50°-60°	2758.7	23.0
60°-70°	2902.0	24.2
70°-80°	1193.8	10.0
80°-90°	139.8	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°	11977.0	100.0
0°-180°	11977.0	100.0

Coefficient of Utilization



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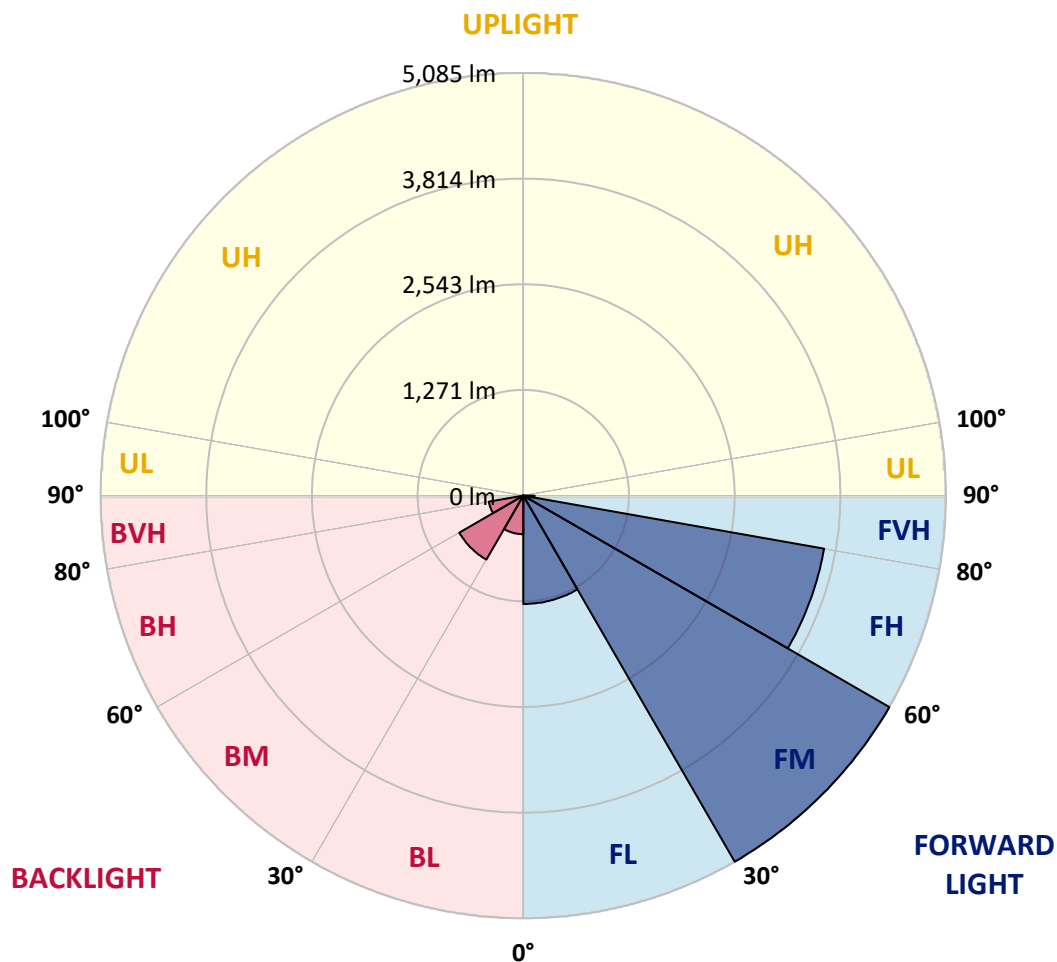
CATALOG NUMBER: GALN-SA3C-830-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1303.3	10.9			
FM	(30°-60°)	5085.5	42.5			
FH	(60°-80°)	3675.1	30.7			G2/5000
FVH	(80°-90°)	135.7	1.1			G2/225
BL	(0°-30°)	463.8	3.9	B1/500		
BM	(30°-60°)	888.9	7.4	B1/1000		
BH	(60°-80°)	420.7	3.5	B1/500		G1/500
BVH	(80°-90°)	4.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4055.4	4055.4	4055.4	4055.4	4055.4	4055.4	4055.4	4055.4	4055.4	4055.4	4055.4
2.5°	4430.6	4423.2	4488.7	4595.6	4703.5	4759.7	4748.6	4744.0	4654.6	4589.2	4451.8
5°	4421.4	4459.2	4576.2	4865.7	5085.1	5191.1	5222.5	5090.7	4916.4	4663.8	4352.2
7.5°	4156.8	4203.8	4394.6	4847.3	5237.2	5467.7	5459.4	5248.3	4888.8	4497.9	4053.5
10°	3828.6	3883.9	4107.9	4657.4	5163.5	5467.7	5484.3	5217.0	4769.8	4268.3	3800.9
12.5°	3597.2	3662.7	3910.6	4480.4	4973.6	5273.2	5292.6	5099.0	4680.4	4179.8	3663.6
15°	3518.8	3580.6	3832.3	4390.9	4771.7	4933.0	4928.4	4908.1	4645.4	4201.0	3671.0
17.5°	3653.4	3704.1	3988.1	4431.5	4582.7	4566.1	4590.1	4687.8	4652.8	4379.0	3903.3
20°	4001.0	4052.6	4357.8	4556.0	4438.0	4332.9	4343.9	4507.1	4721.0	4713.6	4266.5
22.5°	4479.4	4567.0	4843.6	4797.5	4418.6	4188.1	4165.1	4377.1	4837.1	5099.0	4756.9
25°	5085.1	5173.6	5389.3	5182.8	4513.6	4154.0	4132.8	4337.5	4978.2	5475.1	5309.1
27.5°	5594.0	5661.3	5876.1	5558.1	4653.7	4168.8	4133.7	4343.0	5092.5	5795.0	5774.7
30°	6001.5	6051.3	6177.6	5733.2	4774.5	4233.3	4192.7	4424.1	5143.2	5950.8	6151.7
32.5°	6329.7	6413.6	6453.2	5920.4	4947.8	4355.0	4285.9	4579.9	5266.7	6143.5	6547.2
35°	6704.9	6801.7	6751.0	6099.2	5176.4	4544.9	4460.1	4832.5	5453.9	6321.4	7006.3
37.5°	7180.6	7292.1	7093.9	6287.3	5417.9	4830.7	4791.0	5187.5	5737.8	6575.8	7498.6
40°	7672.9	7737.4	7426.7	6515.9	5714.8	5246.5	5284.3	5714.8	6109.3	6881.0	8022.3
42.5°	8057.3	8118.1	7768.7	6707.6	6018.1	5739.7	5897.3	6350.9	6535.3	7193.5	8413.1
45°	8351.4	8403.0	8005.7	6916.9	6427.4	6454.1	6751.9	7006.3	6962.1	7384.3	8714.6
47.5°	8580.0	8624.2	8188.2	7141.9	7040.4	7328.1	7783.5	7891.3	7404.6	7590.8	8987.5
50°	8674.0	8686.9	8245.4	7428.6	7736.5	8441.7	8916.5	8851.0	7911.6	7820.4	9277.9
52.5°	8796.6	8793.9	8408.5	7701.4	8391.0	9437.4	9911.2	9762.8	8485.0	8164.2	9604.2
55°	9118.4	9122.1	8757.9	8088.6	8948.8	10241.2	10748.3	10640.4	9089.8	8745.0	9985.0
57.5°	9509.3	9523.1	9254.8	8541.3	9481.6	10823.9	11373.3	11331.8	9907.5	9391.3	10344.5
59°	9560.0	9587.6	9489.9	8860.3	9797.8	11002.7	11587.2	11627.8	10345.4	9817.2	10539.0
60°	9467.8	9513.9	9558.1	9040.9	9983.1	11067.2	11600.1	11679.4	10674.5	10106.6	10627.5
62.5°	9065.8	9138.7	9360.8	9596.8	10214.5	10866.3	11188.0	11354.0	11082.0	10867.2	10635.8
65°	8539.4	8577.2	8898.0	9695.5	9765.5	9927.8	10027.4	10240.3	10592.5	11160.4	10255.1
67.5°	7676.5	7788.1	8180.8	9123.0	8440.8	8249.0	8224.2	8012.1	8926.6	10461.6	9316.6
70°	6341.7	6391.4	6875.4	7479.3	6370.2	6075.2	6193.2	6114.0	6919.7	9005.9	7498.6
72.5°	4795.7	4908.1	5381.1	5961.8	4334.7	3952.1	4277.6	4248.1	5197.6	7237.7	5151.5
75°	3411.9	3484.7	4087.6	4665.7	3035.8	2572.1	2689.1	2798.8	3628.5	5714.8	3044.1
77.5°	2344.4	2407.0	2859.7	3085.6	2214.4	2121.3	1940.6	2046.6	2377.5	3390.7	1656.6
80°	1414.2	1411.4	1709.2	1764.5	1542.3	1791.2	1502.7	1687.1	1437.2	1451.0	641.6
82.5°	918.2	909.0	1045.4	1139.5	858.3	902.5	605.7	873.0	936.6	404.7	202.8
85°	411.2	428.7	502.4	662.8	376.1	200.0	123.5	268.3	399.2	203.7	0.0
87.5°	42.4	33.2	88.5	161.3	51.6	5.5	18.4	9.2	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°	4055.4	4055.4	4055.4	4055.4	4055.4	4055.4	4055.4	4055.4	4055.4	4055.4	4055.4
2.5°	4388.2	4334.7	4175.2	4025.9	3897.7	3741.0	3639.6	3480.1	3383.3	3353.8	3358.4
5°	4212.1	4058.1	3754.8	3512.4	3242.3	3088.3	2854.2	2629.2	2507.5	2462.4	2442.1
7.5°	3843.3	3678.3	3312.3	2931.6	2642.1	2372.0	2197.8	1999.6	1864.1	1752.5	1733.1
10°	3569.5	3352.9	2899.3	2490.0	2261.4	2058.6	1884.3	1686.1	1526.6	1399.4	1364.4
12.5°	3405.4	3163.0	2656.9	2313.9	2097.3	1888.9	1662.2	1432.6	1269.4	1132.1	1068.5
15°	3375.9	3094.8	2588.7	2187.6	1920.3	1668.6	1367.2	1119.2	951.4	821.4	781.8
17.5°	3553.9	3217.4	2578.5	2055.8	1688.9	1332.1	1018.7	813.1	624.1	551.3	522.7
20°	3871.0	3434.0	2577.6	1902.8	1451.0	1026.1	715.4	530.1	453.6	418.5	401.9
22.5°	4303.4	3729.0	2626.5	1770.9	1204.0	756.9	510.7	422.2	378.0	349.4	342.9
25°	4831.6	4166.0	2746.3	1681.5	1015.0	593.7	421.3	361.4	324.5	311.6	306.1
27.5°	5300.8	4584.5	2878.1	1589.3	879.5	525.5	390.9	331.0	301.5	291.3	283.0
30°	5705.6	4964.4	2941.7	1467.6	770.7	481.2	396.4	354.0	315.3	284.9	271.0
32.5°	6043.0	5255.7	2983.2	1357.0	678.5	393.6	313.4	273.8	256.3	245.2	236.0
35°	6465.2	5571.0	2958.3	1294.3	631.5	358.6	285.8	236.0	206.5	184.4	175.2
37.5°	6907.7	5886.2	2915.0	1242.7	610.3	332.8	272.0	224.0	191.8	168.7	156.7
40°	7365.9	6178.5	2864.3	1194.8	590.9	316.2	263.7	213.9	181.6	156.7	143.8
42.5°	7785.3	6463.3	2844.0	1163.4	559.6	319.0	257.2	209.3	171.5	145.7	134.6
45°	8124.6	6733.5	2871.7	1146.8	525.5	314.4	259.1	203.7	163.2	138.3	127.2
47.5°	8486.9	7115.1	2961.1	1130.2	492.3	292.2	272.9	202.8	159.5	133.7	121.7
50°	8908.2	7603.7	3165.8	1089.7	451.7	268.3	290.4	201.9	154.9	128.1	116.2
52.5°	9469.6	8158.7	3376.9	1018.7	392.7	245.2	277.5	199.1	145.7	121.7	109.7
55°	9973.9	8743.2	3555.7	934.8	318.1	212.0	249.8	187.1	130.0	110.6	99.6
57.5°	10182.2	9073.2	3550.2	818.6	254.4	186.2	205.6	171.5	113.4	97.7	88.5
59°	10105.7	9031.7	3431.3	732.9	232.3	172.4	170.5	169.6	106.0	88.5	81.1
60°	9997.9	8880.5	3303.1	690.5	218.5	163.2	156.7	167.8	99.6	83.0	75.6
62.5°	9584.9	8253.7	2878.1	618.6	200.0	138.3	125.4	142.0	88.5	71.9	65.5
65°	8986.6	7290.3	2436.5	598.3	194.5	114.3	104.2	101.4	75.6	60.8	55.3
67.5°	7819.4	6169.3	1973.8	584.5	196.4	95.9	91.3	76.5	62.7	50.7	47.0
70°	6260.5	4810.4	1616.1	568.8	198.2	78.4	76.5	60.8	50.7	42.4	38.7
72.5°	3803.7	2851.4	1272.2	494.1	192.7	62.7	68.2	46.1	36.9	30.4	28.6
75°	2351.7	1951.6	789.1	384.4	127.2	46.1	47.9	28.6	24.9	19.4	19.4
77.5°	1362.5	1232.6	282.1	138.3	56.2	27.7	21.2	14.8	13.8	8.3	8.3
80°	565.1	452.6	97.7	47.0	30.4	12.9	4.6	0.9	0.0	0.0	0.0
82.5°	165.0	146.6	26.7	21.2	9.2	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°	4055.4	4055.4	4055.4	4055.4	4055.4	4055.4	4055.4	4055.4	4055.4	4055.4	4055.4
2.5°	3280.1	3249.7	3235.8	3282.8	3239.5	3294.8	3252.4	3270.9	3325.2	3349.2	3411.0
5°	2455.0	2423.6	2408.9	2479.9	2476.2	2511.2	2507.5	2539.8	2567.5	2505.7	2569.3
7.5°	1710.1	1688.9	1723.9	1779.2	1838.2	1818.9	1818.9	1775.6	1790.3	1781.1	1778.3
10°	1300.8	1228.0	1209.5	1207.7	1229.8	1234.4	1209.5	1149.6	1171.7	1178.2	1216.9
12.5°	1023.3	967.1	881.3	842.6	832.5	840.8	758.7	706.2	731.1	716.3	754.1
15°	733.8	687.7	637.0	593.7	581.7	565.1	475.7	413.0	405.6	408.4	414.8
17.5°	523.6	492.3	492.3	446.2	421.3	371.5	326.3	298.7	295.9	298.7	303.3
20°	386.3	369.7	367.8	355.8	328.2	295.0	263.7	258.1	256.3	260.9	262.7
22.5°	332.8	315.3	300.5	299.6	273.8	246.1	231.4	224.0	224.9	226.8	231.4
25°	297.8	279.3	263.7	254.4	236.0	216.6	202.8	199.1	199.1	201.9	202.8
27.5°	272.9	249.8	236.0	223.1	206.5	189.9	177.9	175.2	173.3	175.2	179.8
30°	255.4	232.3	214.8	195.4	182.5	166.9	156.7	153.0	152.1	153.0	156.7
32.5°	218.5	204.7	190.8	173.3	157.6	147.5	136.4	130.0	130.0	131.8	135.5
35°	165.0	157.6	156.7	152.1	139.2	128.1	115.2	108.8	108.8	112.5	114.3
37.5°	145.7	131.8	130.0	128.1	122.6	107.9	95.9	90.3	89.4	92.2	95.9
40°	132.8	117.1	108.8	106.9	107.9	91.3	78.4	72.8	72.8	73.8	77.4
42.5°	122.6	104.2	89.4	87.6	91.3	76.5	63.6	58.1	58.1	58.1	62.7
45°	114.3	93.1	75.6	66.4	71.9	62.7	51.6	46.1	44.3	46.1	47.9
47.5°	108.8	84.8	66.4	53.5	53.5	49.8	41.5	35.0	33.2	34.1	36.9
50°	104.2	77.4	56.2	43.3	38.7	39.6	31.3	26.7	24.9	24.9	27.7
52.5°	96.8	70.1	48.9	36.9	29.5	26.7	23.0	19.4	18.4	19.4	21.2
55°	87.6	63.6	42.4	30.4	23.0	18.4	16.6	13.8	12.9	13.8	16.6
57.5°	77.4	53.5	34.1	24.0	15.7	12.0	11.1	9.2	7.4	8.3	10.1
59°	71.0	47.9	29.5	19.4	12.0	8.3	8.3	6.5	4.6	5.5	8.3
60°	68.2	44.3	24.9	16.6	10.1	6.5	6.5	4.6	2.8	3.7	6.5
62.5°	58.1	36.9	19.4	10.1	4.6	0.9	2.8	0.9	0.0	0.9	2.8
65°	48.9	29.5	12.9	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.9
67.5°	40.6	22.1	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	32.3	14.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	22.1	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	13.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	5.5	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: P452696

CATALOG NUMBER: GALN-SA3C-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4055.4	4055.4	4055.4	4055.4	4055.4	4055.4	4055.4	4055.4	4055.4	4055.4
2.5°	3414.7	3546.5	3627.6	3780.7	3937.4	4058.1	4209.3	4344.9	4401.1	4430.6
5°	2633.8	2817.3	2973.1	3206.3	3423.0	3686.6	3954.0	4269.3	4390.0	4421.4
7.5°	1848.4	2035.5	2198.7	2468.8	2777.6	3130.7	3530.8	3930.9	4107.0	4156.8
10°	1334.9	1534.9	1734.1	2004.2	2292.7	2675.3	3092.0	3587.1	3789.9	3828.6
12.5°	842.6	1057.4	1381.0	1714.7	2019.9	2327.8	2763.8	3302.2	3526.2	3597.2
15°	488.6	649.0	893.3	1328.4	1716.6	2124.0	2599.7	3195.3	3446.0	3518.8
17.5°	327.3	382.6	550.4	883.2	1395.7	1936.0	2558.2	3282.8	3560.3	3653.4
20°	275.6	300.5	359.5	538.4	1074.9	1768.2	2569.3	3520.7	3884.8	4001.0
22.5°	242.5	265.5	303.3	387.2	750.4	1559.8	2621.8	3860.9	4331.0	4479.4
25°	213.9	236.9	270.1	320.8	504.3	1319.2	2737.1	4358.7	4922.0	5085.1
27.5°	189.9	211.1	239.7	283.0	388.1	1051.0	2839.4	4843.6	5461.3	5594.0
30°	167.8	185.3	213.0	246.1	322.7	810.3	2891.0	5267.7	5854.0	6001.5
32.5°	145.7	162.3	189.0	215.7	265.5	617.7	2855.1	5579.3	6235.6	6329.7
35°	124.5	142.0	164.1	189.0	229.5	498.7	2675.3	5929.6	6631.1	6704.9
37.5°	106.9	121.7	144.7	164.1	207.4	399.2	2457.7	6244.9	7074.6	7180.6
40°	90.3	105.1	128.1	145.7	190.8	314.4	2261.4	6595.2	7542.0	7672.9
42.5°	73.8	91.3	111.5	140.1	164.1	239.7	2023.5	6879.1	7893.2	8057.3
45°	59.0	78.4	100.5	139.2	142.9	182.5	1794.0	7100.4	8203.9	8351.4
47.5°	47.0	66.4	96.8	130.0	117.1	144.7	1663.1	7331.8	8462.0	8580.0
50°	37.8	55.3	101.4	114.3	97.7	122.6	1659.4	7589.9	8595.7	8674.0
52.5°	30.4	45.2	85.7	87.6	83.0	107.9	1759.0	7880.3	8732.1	8796.6
55°	25.8	37.8	56.2	64.5	74.7	97.7	1833.6	8327.4	9057.5	9118.4
57.5°	20.3	32.3	43.3	51.6	66.4	89.4	1843.8	8672.2	9469.6	9509.3
59°	17.5	27.7	38.7	46.1	60.8	83.9	1802.3	8693.4	9496.4	9560.0
60°	14.8	24.9	34.1	43.3	56.2	79.3	1757.1	8539.4	9396.8	9467.8
62.5°	11.1	19.4	24.9	35.0	46.1	68.2	1543.2	8002.0	9016.1	9065.8
65°	7.4	13.8	18.4	25.8	36.0	59.0	1257.5	7305.0	8427.9	8539.4
67.5°	4.6	10.1	14.8	19.4	29.5	49.8	896.1	6264.2	7604.6	7676.5
70°	2.8	6.5	11.1	15.7	23.0	39.6	531.9	4951.5	6326.9	6341.7
72.5°	1.8	4.6	7.4	11.1	18.4	36.0	258.1	3227.5	4619.6	4795.7
75°	0.9	2.8	4.6	8.3	14.8	29.5	123.5	2156.3	3361.2	3411.9
77.5°	0.0	0.9	2.8	5.5	11.1	23.0	71.9	1416.0	2291.8	2344.4
80°	0.0	0.0	1.8	4.6	8.3	14.8	43.3	835.2	1388.4	1414.2
82.5°	0.0	0.0	0.9	3.7	5.5	11.1	22.1	366.9	909.0	918.2
85°	0.0	0.0	0.9	3.7	4.6	7.4	8.3	49.8	403.8	411.2
87.5°	0.0	0.0	0.9	4.6	4.6	4.6	4.6	2.8	34.1	42.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)