

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: P652122

Luminaire Tested: **GALN-SA9A-840-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652122
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-840-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30054 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

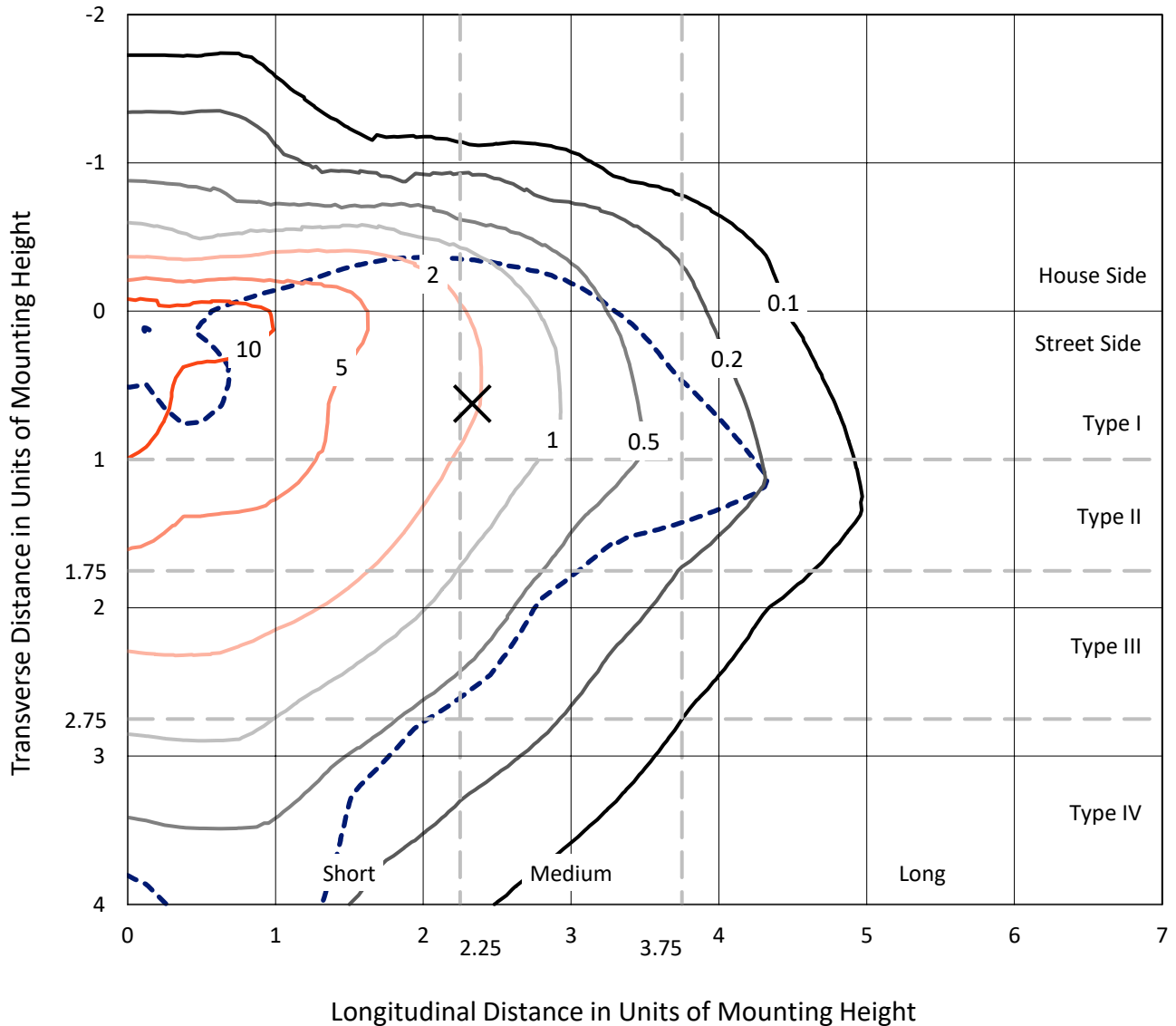
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P652122
 CATALOG NUMBER: GALN-SA9A-840-U-SLL

Iso-Footcandle Lines of Horizontal Illumination

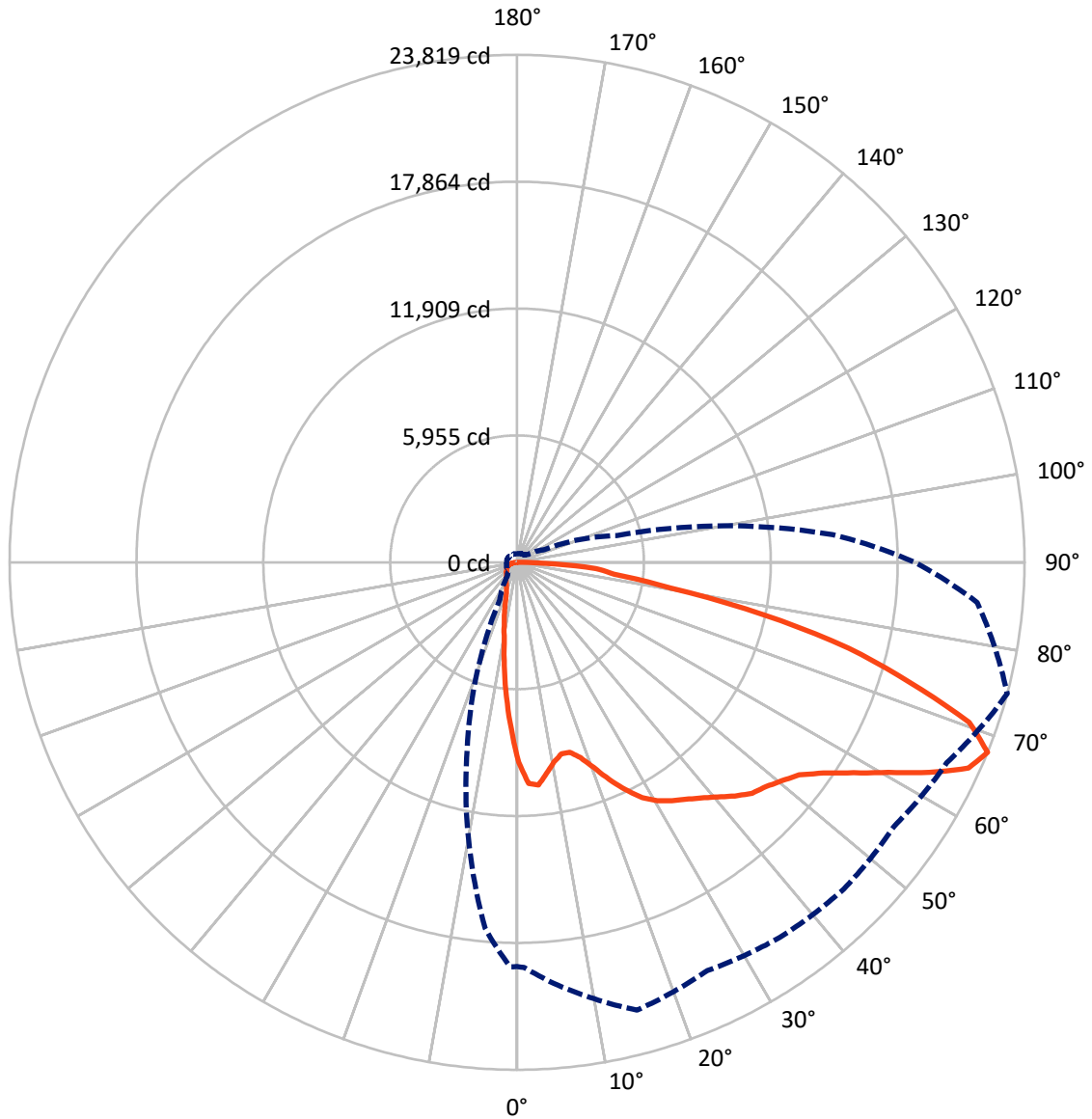
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.5 fc
 Type III - Medium - N/A

REPORT NUMBER: P652122
CATALOG NUMBER: GALN-SA9A-840-U-SLL

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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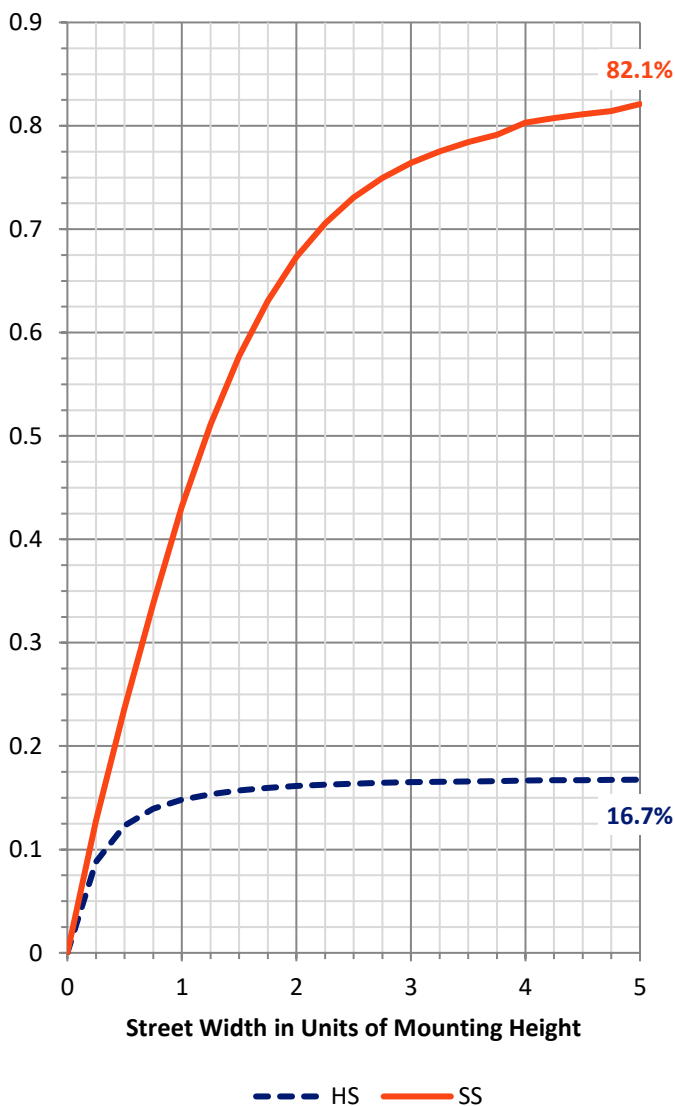
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5079.8	0.0	5079.8
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	24974.2	0.0	24974.2
	% Fixture	83.1	0.0	83.1
Total	Lumens	30054.0	0.0	30054.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	712.2	2.4
10°-20°	1485.3	4.9
20°-30°	2137.3	7.1
30°-40°	3078.3	10.2
40°-50°	4324.2	14.4
50°-60°	6030.7	20.1
60°-70°	7170.2	23.9
70°-80°	4222.8	14.1
80°-90°	893.0	3.0
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°	30054.0	100.0
0°-180°	30054.0	100.0

Coefficient of Utilization

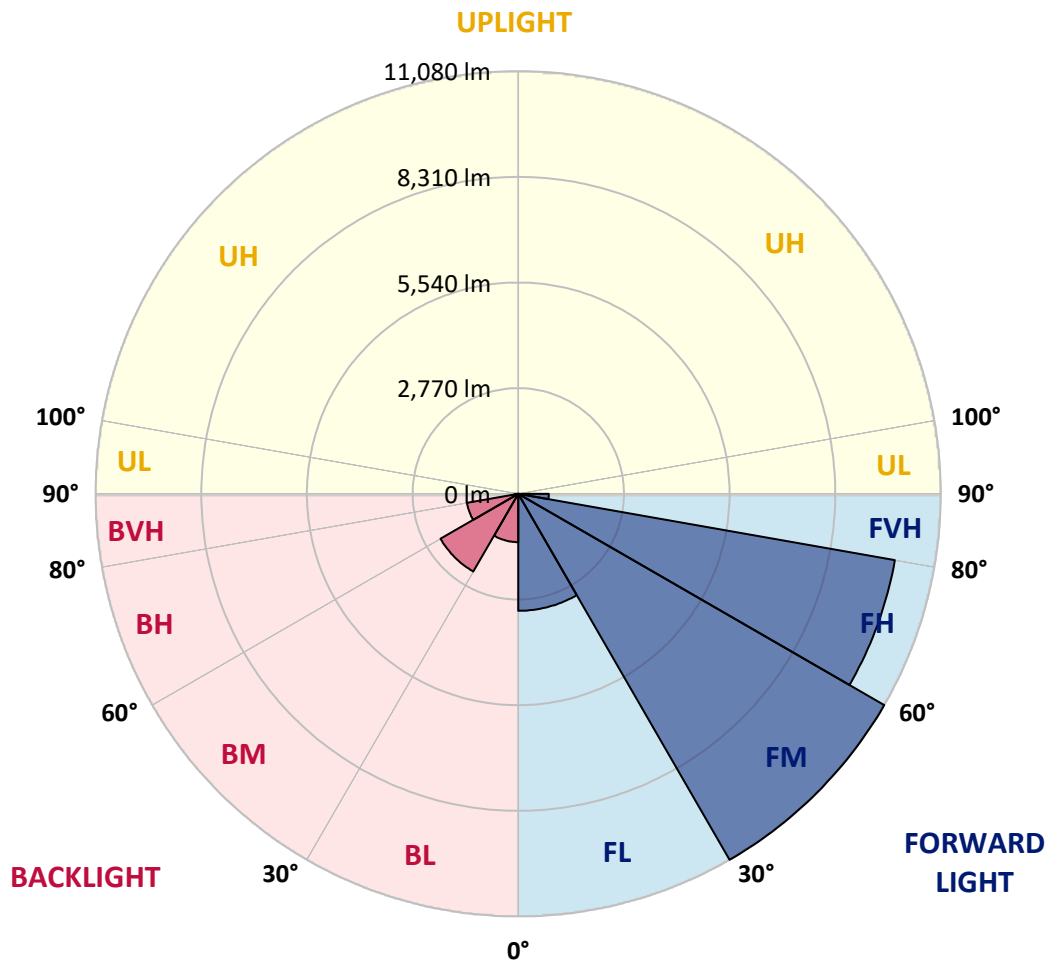


REPORT NUMBER: P652122
 CATALOG NUMBER: GALN-SA9A-840-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3067.7	10.2			
FM (30°-60°)	11079.8	36.9			
FH (60°-80°)	10026.1	33.4			G4/12000
FVH (80°-90°)	800.6	2.7			G5
BL (0°-30°)	1267.1	4.2	B3/2500		
BM (30°-60°)	2353.5	7.8	B2/2500		
BH (60°-80°)	1366.9	4.5	B3/2500		G3/2500
BVH (80°-90°)	92.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





REPORT NUMBER: P652122
 CATALOG NUMBER: GALN-SA9A-840-U-SLL

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9389.6	9389.6	9389.6	9389.6	9389.6	9389.6	9389.6	9389.6	9389.6	9389.6	9389.6
2.5°	10123.9	10137.3	10224.0	10476.5	10650.0	10713.6	10757.9	10675.1	10594.1	10397.5	10100.7
5°	10093.0	10172.1	10397.5	10964.1	11411.3	11603.9	11661.8	11413.2	11002.7	10497.8	9890.7
7.5°	9503.3	9609.3	9956.2	10906.3	11694.5	12145.6	12085.8	11636.7	10896.7	9996.6	9148.7
10°	8803.7	8921.2	9339.5	10488.1	11503.8	12124.4	12124.4	11577.0	10594.1	9524.5	8547.3
12.5°	8248.6	8372.0	8849.9	10058.4	11106.8	11694.5	11792.8	11322.6	10376.3	9225.8	8152.3
15°	8065.5	8185.0	8699.6	9798.2	10686.6	11045.1	11077.8	10923.7	10270.3	9247.0	8134.9
17.5°	8292.9	8447.2	8967.5	9875.3	10301.2	10322.3	10347.4	10468.9	10281.9	9634.3	8485.7
20°	8950.2	9115.9	9659.4	10123.9	9963.9	9744.2	9757.7	10069.9	10418.7	10274.2	9324.1
22.5°	9898.4	10042.9	10599.9	10561.4	9821.3	9368.4	9274.0	9709.5	10621.1	11072.1	10216.4
25°	10921.7	11091.4	11731.2	11210.9	9861.7	9144.8	9085.1	9497.5	10831.2	11817.9	11247.4
27.5°	12093.5	12259.3	12764.2	11866.1	10073.8	9127.5	9056.1	9478.2	11020.0	12507.9	12232.3
30°	12964.6	13116.9	13460.0	12417.3	10334.0	9243.1	9154.5	9630.5	11181.9	12980.1	13192.0
32.5°	13648.8	13806.9	13993.8	12760.3	10677.0	9453.2	9289.3	9908.0	11394.0	13340.4	13903.2
35°	14361.9	14548.8	14535.3	13064.9	10996.9	9696.0	9536.0	10308.9	11727.3	13654.6	14805.1
37.5°	15265.7	15340.9	15244.6	13338.5	11380.4	10133.5	10044.8	10904.4	12201.4	14034.3	15859.3
40°	16183.1	16333.5	15838.1	13670.0	11846.8	10956.5	10946.8	11785.2	12764.2	14479.4	16880.8
42.5°	16969.4	17096.7	16393.2	13959.1	12411.5	11960.5	12033.8	12966.5	13502.3	14996.0	17701.8
45°	17561.1	17674.8	16905.9	14238.6	13155.4	13120.7	13552.5	14232.7	14433.2	15460.4	18183.6
47.5°	18064.2	18174.0	17262.4	14662.5	14074.7	14506.4	15258.1	15552.9	15229.2	15726.4	18723.3
50°	18488.1	18520.9	17507.2	15167.4	15215.6	16204.3	16932.9	17123.6	16015.5	16108.0	19191.6
52.5°	18929.5	18887.1	17929.2	15803.5	16449.1	17815.5	18345.5	18544.0	16769.0	16578.2	19873.8
55°	19918.2	19958.6	18875.5	16605.2	17696.1	19397.8	20095.4	19904.7	17603.6	17443.6	20741.1
57.5°	21113.1	21078.3	20207.2	17859.8	18966.1	20870.3	21390.6	21084.1	18717.5	18632.7	21619.9
60°	21577.5	21623.8	21321.2	19208.9	20218.8	22159.5	22691.4	22215.4	20053.1	20014.5	22282.9
62.5°	21111.1	21371.3	21575.6	20409.6	21286.5	23107.7	23635.8	23092.3	21446.4	21725.9	22747.4
65°	20182.1	20238.1	20933.8	21427.2	21801.1	23263.8	23539.4	23250.4	22610.5	23285.1	22726.2
67.5°	18975.7	19023.9	19839.1	21760.6	21138.1	21490.8	21683.5	21598.7	22250.2	23818.9	21679.6
70°	17827.1	17788.6	18650.0	20910.7	18401.4	17865.6	18025.6	17759.6	19199.3	22514.2	19627.2
72.5°	15591.5	15730.2	16655.3	18547.8	14570.0	13698.9	14047.7	13359.7	14766.6	19282.2	15930.6
75°	12213.0	12245.8	13789.5	15566.4	10991.1	9617.0	10089.1	9802.0	11311.0	16084.9	11000.8
77.5°	8456.8	8383.5	10042.9	11889.2	7838.1	7040.3	7048.0	6911.1	7897.9	11843.0	7473.9
80°	5371.2	5259.4	6286.7	7344.8	5386.7	5762.4	5573.6	5567.8	5141.9	7306.2	4519.4
82.5°	2902.5	3025.7	3972.0	4604.2	3864.1	4453.9	4082.0	3962.5	3528.8	4573.4	2890.9
85°	1322.1	1437.7	2118.1	3131.8	2935.2	2968.0	1983.2	2339.7	2919.8	3713.9	1543.7
87.5°	129.1	165.8	437.5	1478.2	1002.1	790.2	294.9	568.5	734.3	1320.2	123.4
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: P652122
 CATALOG NUMBER: GALN-SA9A-840-U-SLL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9389.6	9389.6	9389.6	9389.6	9389.6	9389.6	9389.6	9389.6	9389.6	9389.6	9389.6
2.5°	9979.3	9879.1	9537.9	9256.6	8957.8	8730.4	8433.6	8235.2	8098.3	7892.1	7867.1
5°	9520.6	9275.9	8682.2	8077.1	7554.8	7161.7	6762.7	6396.6	6180.7	6113.2	6026.5
7.5°	8747.8	8335.4	7572.2	6878.4	6279.0	5693.1	5242.1	4922.2	4708.3	4583.0	4432.7
10°	8111.8	7633.8	6704.9	5855.0	5361.6	4997.4	4600.4	4257.3	3993.2	3767.8	3644.5
12.5°	7684.0	7144.3	6099.8	5409.8	5028.2	4640.8	4176.3	3790.9	3401.6	3145.3	3035.4
15°	7554.8	6984.3	5912.8	5188.1	4640.8	4133.9	3613.6	3110.6	2725.2	2482.3	2401.4
17.5°	7870.9	7181.0	5910.9	4893.3	4186.0	3580.8	2914.0	2441.8	2046.7	1865.6	1807.7
20°	8460.6	7558.7	5928.2	4602.3	3692.6	2840.7	2120.0	1732.6	1543.7	1466.6	1437.7
22.5°	9283.5	8134.9	5980.3	4315.1	3153.0	2181.6	1588.1	1391.4	1324.0	1310.5	1304.7
25°	10297.3	8848.0	6155.6	4056.9	2698.2	1665.2	1327.9	1239.2	1200.7	1187.2	1185.2
27.5°	11230.1	9769.2	6367.6	3835.2	2258.8	1435.8	1200.7	1125.5	1087.0	1085.1	1088.9
30°	12072.3	10540.2	6544.9	3586.6	1925.3	1275.9	1117.8	1042.7	1006.0	1004.1	1015.7
32.5°	12800.8	11174.2	6676.0	3341.9	1740.3	1177.6	1042.7	961.7	930.9	925.1	930.9
35°	13579.5	11806.4	6616.2	3151.1	1634.3	1096.6	986.7	907.8	871.1	853.8	853.8
37.5°	14467.9	12457.7	6514.1	2993.0	1586.1	1029.1	938.6	861.5	824.9	807.5	805.6
40°	15437.3	13109.2	6373.4	2852.3	1537.9	988.7	905.8	824.9	780.5	763.2	759.3
42.5°	16293.0	13666.2	6257.8	2759.8	1459.0	996.4	876.9	797.9	742.0	718.9	717.0
45°	17036.9	14226.9	6236.6	2705.8	1393.4	984.8	869.2	776.7	711.1	686.1	682.2
47.5°	17619.0	14810.9	6358.0	2675.1	1322.1	923.2	919.3	763.2	684.2	657.2	653.4
50°	18328.2	15639.7	6635.5	2611.4	1256.5	865.3	971.4	761.3	663.0	628.3	618.6
52.5°	19272.5	16718.9	7011.3	2497.7	1162.1	811.4	927.0	761.3	637.9	603.2	591.6
55°	20700.6	18095.0	7379.4	2337.7	1029.1	740.1	836.5	738.1	601.3	570.5	562.8
57.5°	21646.9	19101.0	7614.6	2116.1	863.4	688.0	720.8	701.5	564.6	531.9	531.9
60°	21695.1	19370.8	7502.8	1836.7	759.3	639.8	626.4	707.3	531.9	497.2	493.4
62.5°	21140.0	18709.7	6920.8	1586.1	703.4	587.8	566.6	620.6	499.1	464.5	458.7
65°	20272.7	17023.4	5910.9	1466.6	672.6	541.5	510.7	508.8	464.5	431.7	424.0
67.5°	18678.9	14876.4	4856.7	1397.2	657.2	489.5	460.6	450.9	424.0	397.0	393.2
70°	16329.6	12459.7	3895.0	1368.4	649.5	435.6	412.4	400.9	377.8	356.5	354.6
72.5°	12704.5	10106.5	3214.6	1349.0	645.6	385.4	360.4	345.0	331.5	312.2	312.2
75°	9125.5	7435.4	2453.4	1216.1	597.4	331.5	304.5	294.9	275.6	260.2	264.1
77.5°	5752.9	5007.0	1615.1	894.2	462.6	265.9	242.8	237.1	221.6	200.4	214.0
80°	3885.3	3521.1	942.4	562.8	291.0	194.7	187.0	185.0	167.7	144.6	146.5
82.5°	2644.2	2594.1	489.5	319.9	167.7	113.7	109.8	113.7	94.4	77.1	77.1
85°	1033.0	1410.8	231.3	125.3	54.0	17.3	25.1	27.0	15.4	7.7	9.7
87.5°	19.3	144.6	5.8	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: P652122
 CATALOG NUMBER: GALN-SA9A-840-U-SLL

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	9389.6	9389.6	9389.6	9389.6	9389.6	9389.6	9389.6	9389.6	9389.6	9389.6	9389.6
2.5°	7828.5	7811.1	7840.1	7716.7	7741.7	7788.0	7811.1	7824.7	8015.4	7971.1	8092.5
5°	6107.4	6090.1	6201.9	6217.3	6275.1	6263.6	6319.4	6333.0	6402.4	6427.4	6597.0
7.5°	4442.3	4517.5	4644.7	4710.2	4808.5	4839.4	4810.4	4881.8	4737.2	4841.2	4872.1
10°	3569.3	3478.7	3424.7	3575.1	3594.3	3737.0	3679.1	3632.9	3717.6	3721.5	3802.5
12.5°	2971.8	2777.2	2648.1	2690.4	2736.7	2798.3	2808.0	2900.5	2962.2	3020.0	3068.2
15°	2330.1	2262.6	2145.1	2087.2	2152.7	2177.8	2237.6	2314.6	2380.2	2397.5	2463.0
17.5°	1788.5	1800.1	1780.8	1746.1	1786.5	1805.8	1809.7	1811.6	1828.9	1817.4	1913.8
20°	1439.6	1480.2	1528.3	1536.0	1549.5	1559.1	1541.8	1476.3	1478.2	1518.7	1549.5
22.5°	1302.8	1310.5	1364.5	1381.8	1424.2	1406.9	1356.8	1325.9	1322.1	1331.7	1347.1
25°	1194.9	1206.5	1245.0	1272.0	1304.7	1273.9	1237.3	1208.3	1204.6	1214.2	1229.6
27.5°	1098.5	1115.8	1150.6	1177.6	1208.3	1179.5	1144.8	1119.7	1117.8	1115.8	1125.5
30°	1021.5	1040.7	1065.8	1096.6	1117.8	1092.7	1060.0	1046.5	1044.6	1040.7	1044.6
32.5°	944.4	975.2	1000.3	1015.7	1036.9	1017.6	992.5	984.8	971.4	959.7	954.0
35°	857.7	890.4	929.0	948.2	969.4	950.2	932.8	900.0	876.9	875.0	878.8
37.5°	807.5	821.0	851.8	884.6	905.8	896.2	863.4	830.7	824.9	824.9	828.7
40°	763.2	769.0	782.5	824.9	863.4	834.5	794.0	784.4	784.4	782.5	784.4
42.5°	718.9	724.6	724.6	757.4	819.0	772.8	742.0	742.0	742.0	743.9	749.7
45°	678.4	680.3	678.4	701.5	759.3	720.8	699.6	705.3	709.2	713.1	717.0
47.5°	643.7	645.6	643.7	663.0	691.9	676.5	664.9	672.6	680.3	686.1	690.0
50°	612.8	610.9	614.8	626.4	639.8	643.7	636.0	647.6	651.4	659.1	668.8
52.5°	585.9	584.0	587.8	593.6	612.8	612.8	612.8	622.5	630.2	637.9	651.4
55°	555.1	557.0	562.8	570.5	595.5	591.6	593.6	601.3	609.1	620.6	628.3
57.5°	526.1	530.0	537.7	549.3	574.3	572.4	574.3	578.2	587.8	593.6	601.3
60°	493.4	501.1	510.7	518.4	543.5	541.5	551.2	558.9	564.6	564.6	568.5
62.5°	460.6	472.1	481.8	487.6	514.6	516.5	530.0	535.8	539.7	535.8	541.5
65°	427.8	445.2	449.0	456.7	483.7	485.7	501.1	514.6	510.7	506.9	516.5
67.5°	395.1	416.3	414.4	424.0	450.9	454.8	468.4	491.5	483.7	479.9	487.6
70°	358.4	373.9	375.8	381.6	418.2	412.4	433.6	454.8	449.0	450.9	450.9
72.5°	318.0	331.5	331.5	343.0	381.6	372.0	389.3	412.4	412.4	410.5	410.5
75°	269.8	277.5	285.3	302.6	343.0	331.5	343.0	364.2	368.1	364.2	364.2
77.5°	217.8	229.3	233.2	256.3	285.3	283.3	294.9	304.5	312.2	308.4	308.4
80°	154.2	165.8	181.2	206.2	223.5	229.3	235.1	242.8	246.7	246.7	250.5
82.5°	86.7	104.0	117.6	142.6	150.3	179.2	177.3	183.1	177.3	156.1	173.4
85°	19.3	36.6	52.1	65.5	75.2	104.0	109.8	123.4	102.2	94.4	94.4
87.5°	0.0	0.0	0.0	0.0	0.0	15.4	30.9	42.4	36.6	30.9	30.9
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: P652122

CATALOG NUMBER: GALN-SA9A-840-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9389.6	9389.6	9389.6	9389.6	9389.6	9389.6	9389.6	9389.6	9389.6	9389.6
2.5°	8194.7	8362.3	8564.7	8913.5	9158.3	9422.3	9688.3	9971.6	10046.8	10123.9
5°	6643.2	6972.8	7152.0	7620.4	8111.8	8736.2	9247.0	9805.9	10039.0	10093.0
7.5°	5032.0	5255.6	5725.9	6199.9	6809.0	7464.2	8246.7	9117.9	9389.6	9503.3
10°	3989.5	4293.9	4706.3	5215.1	5749.0	6454.3	7337.1	8354.7	8740.1	8803.7
12.5°	3395.8	3735.0	4184.1	4721.8	5226.7	5758.7	6649.0	7699.4	8111.8	8248.6
15°	2715.5	3126.0	3644.5	4211.1	4760.3	5342.4	6244.3	7429.6	7905.6	8065.5
17.5°	2133.4	2465.0	3025.7	3640.6	4292.0	5028.2	6159.5	7558.7	8144.6	8292.9
20°	1632.4	1869.5	2341.6	2991.1	3754.3	4717.9	6180.7	8046.3	8747.8	8950.2
22.5°	1410.8	1532.1	1819.3	2438.0	3291.8	4448.1	6267.4	8715.0	9561.1	9898.4
25°	1277.7	1341.4	1503.3	1908.0	2850.4	4186.0	6465.9	9615.1	10698.2	10921.7
27.5°	1164.0	1210.3	1310.5	1601.5	2449.5	3943.2	6697.2	10613.4	11760.1	12093.5
30°	1056.1	1117.8	1212.2	1422.3	2193.2	3721.5	6988.2	11422.8	12654.4	12964.6
32.5°	973.3	1034.9	1121.6	1297.1	1975.4	3488.3	7161.7	12133.9	13384.8	13648.8
35°	905.8	957.8	1048.4	1196.8	1809.7	3311.0	7127.0	12698.7	14092.0	14361.9
37.5°	857.7	902.0	992.5	1102.4	1684.4	3126.0	7109.6	13444.5	14953.6	15265.7
40°	813.3	859.6	942.4	1040.7	1559.1	2908.3	7119.2	14184.6	15870.9	16183.1
42.5°	778.6	830.7	898.1	1023.4	1430.0	2732.8	7119.2	14828.3	16668.8	16969.4
45°	749.7	805.6	871.1	1021.5	1327.9	2599.9	7071.1	15381.4	17304.8	17561.1
47.5°	724.6	786.3	880.8	986.7	1302.8	2503.5	7028.7	15824.7	17823.2	18064.2
50°	707.3	780.5	936.6	946.3	1310.5	2474.6	7232.9	16383.6	18280.0	18488.1
52.5°	693.8	782.5	934.7	886.5	1297.1	2493.9	7658.9	17256.6	18914.1	18929.5
55°	666.8	780.5	886.5	819.0	1241.1	2526.6	8206.2	18524.8	19906.6	19918.2
57.5°	639.8	759.3	822.9	761.3	1127.4	2526.6	8865.4	19725.4	21103.4	21113.1
60°	612.8	790.2	722.8	711.1	979.0	2480.4	9561.1	20253.5	21479.2	21577.5
62.5°	585.9	795.9	645.6	666.8	871.1	2368.6	10079.6	19669.6	20970.4	21111.1
65°	555.1	641.8	595.5	620.6	815.3	2181.6	9915.7	18599.9	20014.5	20182.1
67.5°	518.4	543.5	541.5	572.4	795.9	1906.0	9052.3	17247.0	18985.3	18975.7
70°	474.1	487.6	493.4	526.1	759.3	1692.1	7543.3	15491.2	17611.2	17827.1
72.5°	427.8	439.4	445.2	474.1	722.8	1570.7	5855.0	13072.6	15254.2	15591.5
75°	377.8	385.4	393.2	418.2	684.2	1391.4	4170.6	9979.3	11683.0	12213.0
77.5°	325.7	325.7	335.3	360.4	576.3	1148.6	2798.3	6999.8	7915.2	8456.8
80°	264.1	265.9	262.1	289.1	424.0	786.3	1590.0	4675.5	5267.2	5371.2
82.5°	202.3	196.5	198.5	212.0	316.0	535.8	848.0	2904.4	2960.2	2902.5
85°	127.2	127.2	123.4	138.8	202.3	279.5	462.6	1778.9	1389.6	1322.1
87.5°	52.1	42.4	48.2	55.9	96.4	113.7	181.2	366.2	140.7	129.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)