

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: P646897

Luminaire Tested: **GALN-SA4C-835-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646897
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-SA4C-835-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1050mA 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: 18770.9 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

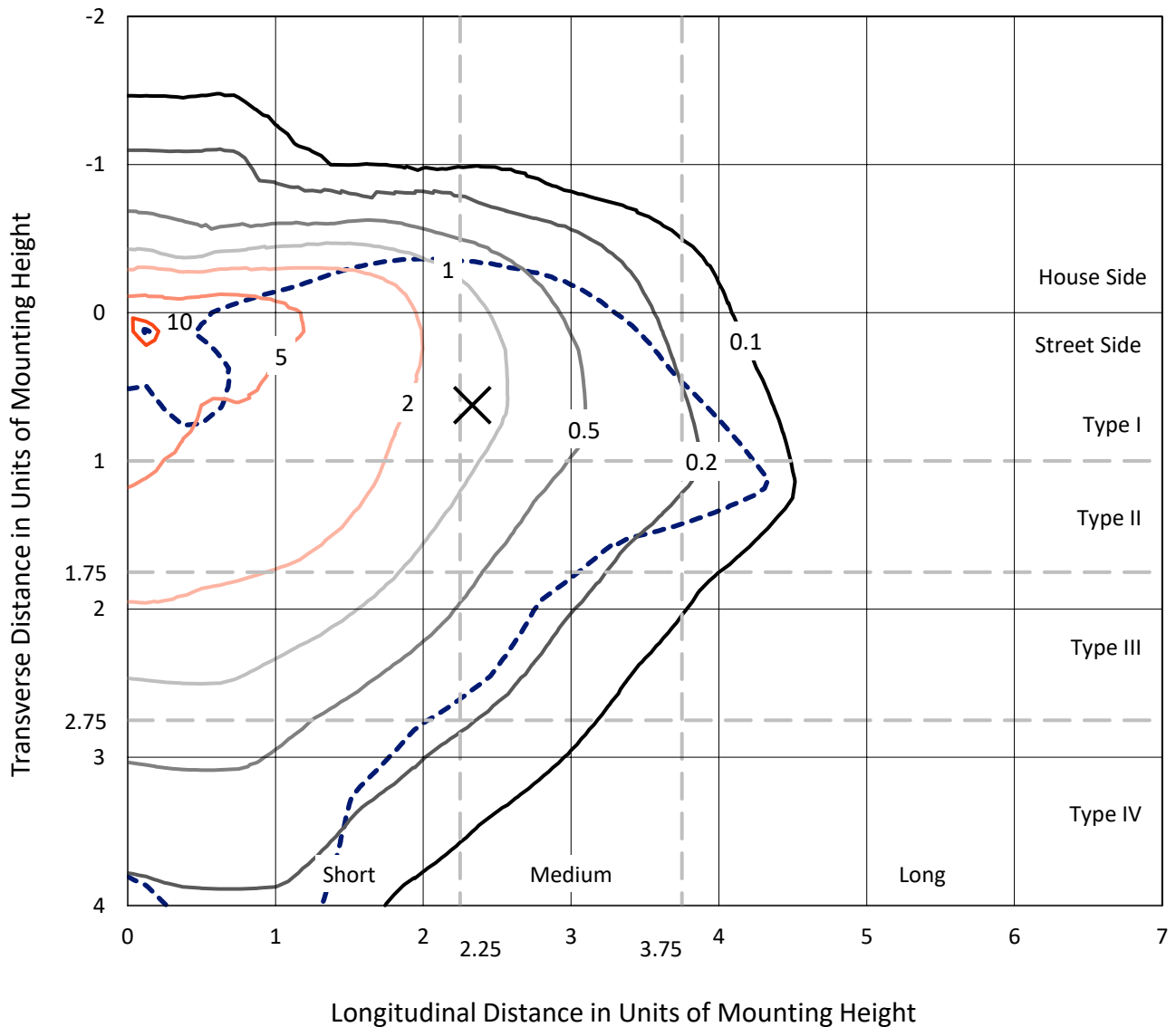
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SA4C-835-U-SLL

Iso-Footcandle Lines of Horizontal Illumination

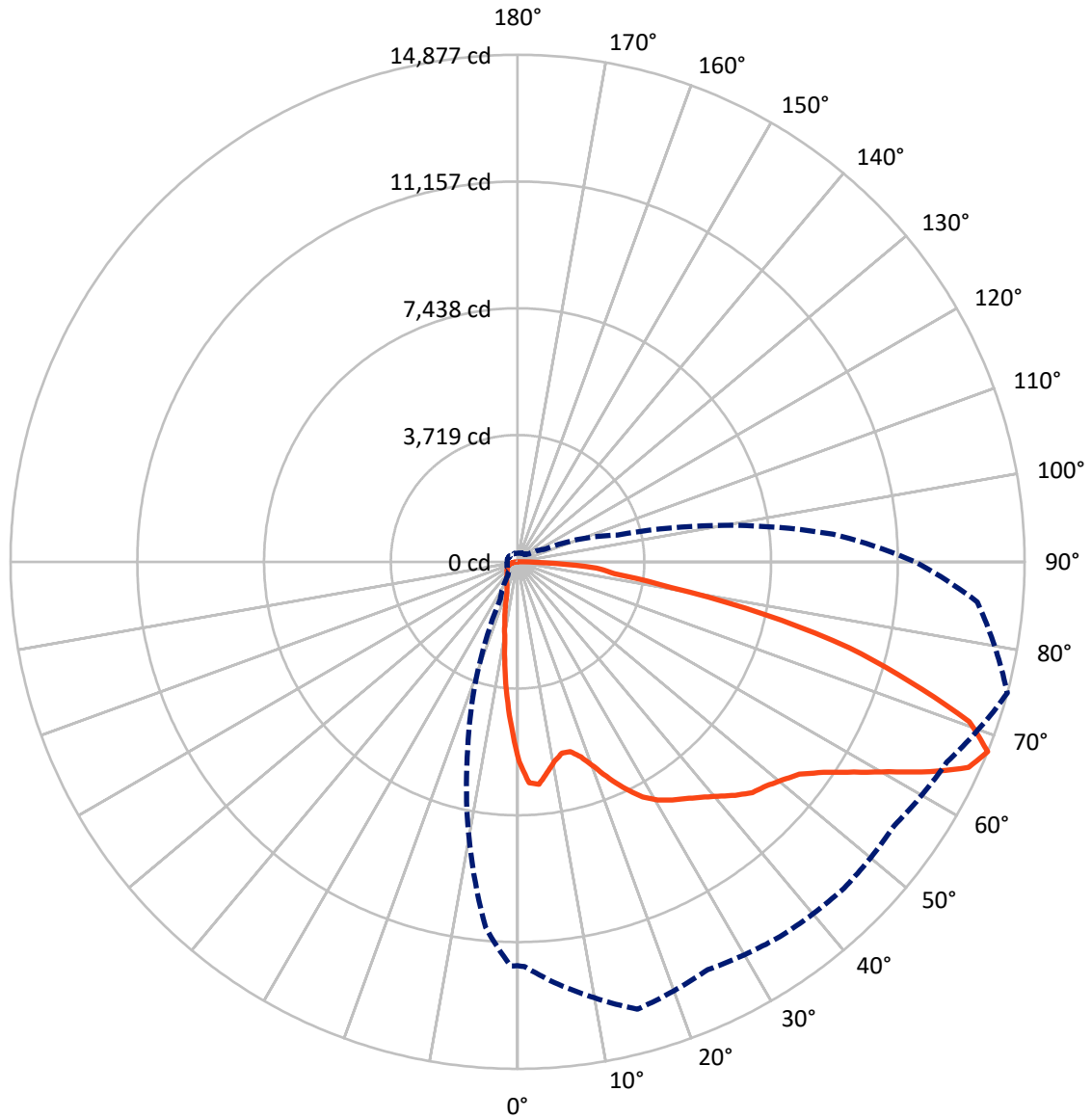
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
 Type III - Medium - N/A

REPORT NUMBER: P646897
CATALOG NUMBER: GALN-SA4C-835-U-SLL

Luminous Intensity Polar Plot



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



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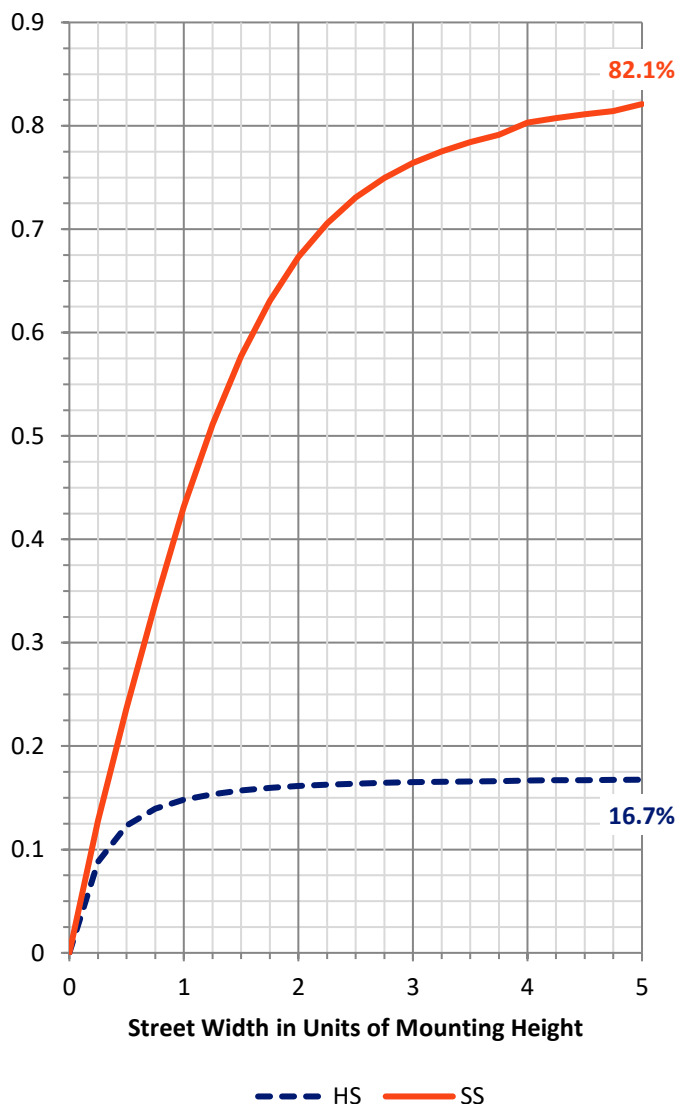
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3172.7	0.0	3172.7
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	15598.2	0.0	15598.2
	% Fixture	83.1	0.0	83.1
Total	Lumens	18770.9	0.0	18770.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	444.8	2.4
10°-20°	927.7	4.9
20°-30°	1334.9	7.1
30°-40°	1922.6	10.2
40°-50°	2700.8	14.4
50°-60°	3766.6	20.1
60°-70°	4478.3	23.9
70°-80°	2637.5	14.1
80°-90°	557.7	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°	18770.9	100.0
0°-180°	18770.9	100.0

Coefficient of Utilization

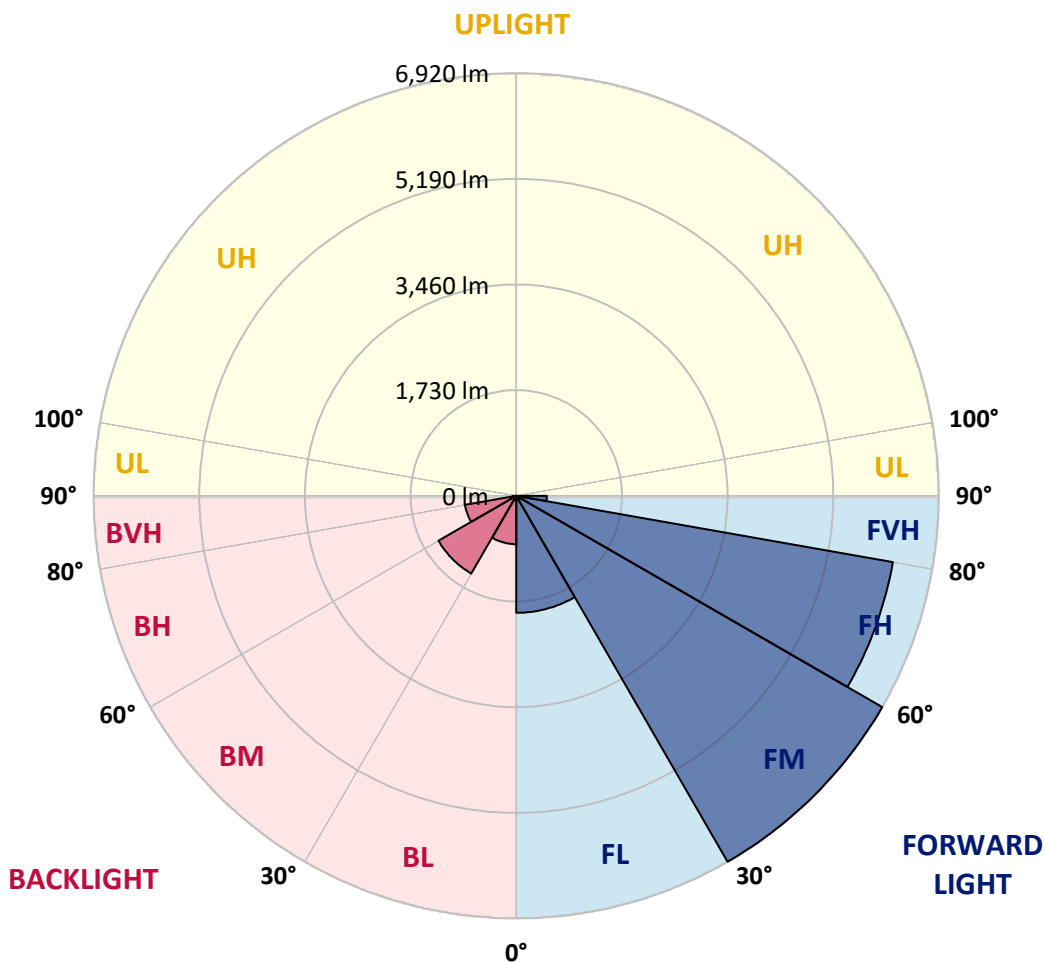


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1916.0	10.2			
FM (30°-60°)	6920.1	36.9			
FH (60°-80°)	6262.0	33.4			G3/7500
FVH (80°-90°)	500.0	2.7			G4/750
BL (0°-30°)	791.4	4.2	B2/1000		
BM (30°-60°)	1469.9	7.8	B2/2500		
BH (60°-80°)	853.7	4.5	B2/1000		G2/1000
BVH (80°-90°)	57.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type III Medium





REPORT NUMBER: P646897

CATALOG NUMBER: GALN-SA4C-835-U-SLL

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5864.4	5864.4	5864.4	5864.4	5864.4	5864.4	5864.4	5864.4	5864.4	5864.4	5864.4
2.5°	6323.0	6331.5	6385.7	6543.4	6651.7	6691.4	6719.1	6667.3	6616.7	6494.0	6308.6
5°	6303.8	6353.2	6494.0	6847.9	7127.2	7247.5	7283.6	7128.4	6872.0	6556.6	6177.4
7.5°	5935.5	6001.7	6218.4	6811.8	7304.1	7585.8	7548.4	7268.0	6805.8	6243.6	5714.0
10°	5498.5	5572.0	5833.2	6550.6	7185.0	7572.5	7572.5	7230.7	6616.7	5948.7	5338.4
12.5°	5151.9	5228.9	5527.4	6282.2	6937.0	7304.1	7365.4	7071.7	6480.7	5762.2	5091.7
15°	5037.5	5112.1	5433.6	6119.6	6674.5	6898.5	6918.9	6822.6	6414.6	5775.4	5080.8
17.5°	5179.5	5275.9	5600.9	6167.8	6433.8	6447.1	6462.7	6538.5	6421.8	6017.4	5299.9
20°	5590.0	5693.5	6033.0	6323.0	6223.1	6085.9	6094.4	6289.4	6507.3	6417.0	5823.6
22.5°	6182.3	6272.5	6620.4	6596.3	6134.1	5851.2	5792.2	6064.3	6633.7	6915.3	6380.8
25°	6821.4	6927.4	7327.0	7002.0	6159.4	5711.6	5674.2	5931.9	6764.8	7381.1	7024.8
27.5°	7553.3	7656.8	7972.1	7411.3	6291.8	5700.8	5656.2	5919.8	6882.8	7812.1	7640.0
30°	8097.3	8192.5	8406.7	7755.5	6454.3	5773.0	5717.6	6014.9	6983.9	8106.9	8239.4
32.5°	8524.7	8623.3	8740.1	7969.8	6668.5	5904.2	5801.9	6188.3	7116.3	8332.1	8683.5
35°	8970.0	9086.8	9078.3	8160.0	6868.3	6055.9	5956.0	6438.6	7324.6	8528.3	9246.8
37.5°	9534.6	9581.5	9521.4	8330.9	7107.9	6329.1	6273.7	6810.6	7620.7	8765.4	9905.3
40°	10107.5	10201.4	9892.0	8537.9	7399.2	6843.1	6837.1	7360.7	7972.1	9043.4	10543.3
42.5°	10598.6	10678.1	10238.7	8718.5	7751.9	7470.2	7515.9	8098.6	8433.1	9366.0	11056.0
45°	10968.2	11039.2	10558.9	8893.0	8216.5	8194.8	8464.5	8889.4	9014.6	9656.1	11356.9
47.5°	11282.3	11351.0	10781.6	9157.8	8790.7	9060.3	9529.7	9713.9	9511.7	9822.3	11694.0
50°	11547.1	11567.7	10934.4	9473.2	9503.3	10120.7	10575.7	10694.9	10002.8	10060.6	11986.5
52.5°	11822.8	11796.4	11198.1	9870.4	10273.7	11127.1	11458.1	11582.1	10473.5	10354.3	12412.7
55°	12440.3	12465.6	11789.1	10371.1	11052.4	12115.3	12551.0	12431.8	10994.7	10894.7	12954.3
57.5°	13186.6	13165.0	12620.9	11154.8	11845.7	13034.9	13359.9	13168.6	11690.4	11637.4	13503.1
60°	13476.7	13505.6	13316.6	11997.4	12628.1	13840.2	14172.5	13875.2	12524.6	12500.5	13917.3
62.5°	13185.4	13347.9	13475.5	12747.2	13294.9	14432.4	14762.3	14422.8	13394.9	13569.4	14207.4
65°	12605.2	12640.1	13074.7	13382.8	13616.4	14530.0	14702.1	14521.5	14121.9	14543.2	14194.1
67.5°	11851.7	11881.8	12391.0	13591.1	13202.2	13422.5	13542.9	13489.9	13896.8	14876.6	13540.5
70°	11134.3	11110.2	11648.3	13060.2	11493.0	11158.4	11258.3	11092.1	11991.3	14061.7	12258.6
72.5°	9738.0	9824.7	10402.5	11584.5	9100.0	8555.9	8773.8	8344.1	9222.8	12043.1	9949.8
75°	7627.9	7648.3	8612.5	9722.4	6864.7	6006.5	6301.4	6122.0	7064.5	10046.1	6870.7
77.5°	5281.9	5236.2	6272.5	7425.7	4895.5	4397.2	4401.9	4316.5	4932.8	7396.8	4668.0
80°	3354.8	3284.9	3926.5	4587.4	3364.4	3599.1	3481.1	3477.5	3211.5	4563.2	2822.7
82.5°	1812.8	1889.8	2480.9	2875.6	2413.4	2781.8	2549.4	2474.8	2204.0	2856.4	1805.6
85°	825.8	897.9	1322.9	1956.0	1833.2	1853.7	1238.6	1461.3	1823.6	2319.6	964.2
87.5°	80.6	103.5	273.3	923.2	625.9	493.5	184.2	355.1	458.6	824.6	77.0
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: P646897

CATALOG NUMBER: GALN-SA4C-835-U-SLL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5864.4	5864.4	5864.4	5864.4	5864.4	5864.4	5864.4	5864.4	5864.4	5864.4	5864.4
2.5°	6232.8	6170.2	5957.1	5781.4	5594.8	5452.8	5267.4	5143.4	5057.9	4929.1	4913.6
5°	5946.3	5793.4	5422.7	5044.7	4718.5	4473.0	4223.8	3995.1	3860.3	3818.1	3764.0
7.5°	5463.6	5206.0	4729.4	4296.0	3921.7	3555.8	3274.1	3074.3	2940.6	2862.4	2768.5
10°	5066.4	4767.9	4187.7	3656.8	3348.7	3121.2	2873.2	2659.0	2494.1	2353.2	2276.2
12.5°	4799.2	4462.2	3809.8	3378.8	3140.5	2898.5	2608.4	2367.7	2124.5	1964.5	1895.8
15°	4718.5	4362.2	3692.9	3240.4	2898.5	2581.9	2256.9	1942.8	1702.0	1550.3	1499.8
17.5°	4915.9	4485.0	3691.8	3056.2	2614.4	2236.5	1820.0	1525.1	1278.3	1165.2	1129.1
20°	5284.3	4720.9	3702.6	2874.5	2306.3	1774.3	1324.1	1082.1	964.2	916.0	897.9
22.5°	5798.3	5080.8	3735.1	2695.1	1969.2	1362.6	991.8	869.1	826.9	818.5	814.9
25°	6431.4	5526.3	3844.6	2533.8	1685.2	1040.0	829.4	774.0	749.9	741.5	740.2
27.5°	7014.0	6101.6	3977.0	2395.4	1410.7	896.8	749.9	703.0	678.9	677.7	680.1
30°	7540.1	6583.1	4087.8	2240.1	1202.5	796.9	698.1	651.2	628.4	627.1	634.4
32.5°	7995.1	6979.1	4169.6	2087.2	1087.0	735.5	651.2	600.6	581.4	577.8	581.4
35°	8481.3	7373.9	4132.4	1968.1	1020.7	684.9	616.3	567.0	544.1	533.2	533.2
37.5°	9036.2	7780.7	4068.5	1869.3	990.7	642.8	586.2	538.1	515.2	504.3	503.2
40°	9641.7	8187.6	3980.7	1781.5	960.6	617.5	565.7	515.2	487.5	476.7	474.3
42.5°	10176.1	8535.5	3908.4	1723.7	911.2	622.3	547.7	498.3	463.5	449.0	447.8
45°	10640.7	8885.8	3895.2	1690.0	870.3	615.1	542.9	485.1	444.2	428.5	426.1
47.5°	11004.3	9250.5	3971.1	1670.8	825.8	576.6	574.2	476.7	427.3	410.4	408.0
50°	11447.2	9768.1	4144.3	1631.0	784.8	540.4	606.7	475.4	414.1	392.4	386.4
52.5°	12037.1	10442.2	4379.1	1560.0	725.8	506.8	579.0	475.4	398.4	376.8	369.6
55°	12929.1	11301.6	4609.0	1460.1	642.8	462.2	522.4	461.0	375.5	356.3	351.5
57.5°	13520.1	11929.9	4755.9	1321.7	539.3	429.7	450.2	438.2	352.7	332.2	332.2
60°	13550.1	12098.4	4686.0	1147.1	474.3	399.6	391.2	441.8	332.2	310.5	308.1
62.5°	13203.5	11685.6	4322.5	990.7	439.3	367.1	353.9	387.6	311.8	290.1	286.5
65°	12661.8	10632.4	3691.8	916.0	420.1	338.3	319.0	317.7	290.1	269.7	264.8
67.5°	11666.3	9291.4	3033.3	872.7	410.4	305.8	287.7	281.6	264.8	248.0	245.5
70°	10199.0	7782.0	2432.7	854.6	405.7	272.0	257.6	250.4	235.9	222.7	221.5
72.5°	7934.8	6312.2	2007.8	842.6	403.2	240.8	225.1	215.5	207.0	195.0	195.0
75°	5699.5	4643.9	1532.3	759.5	373.2	207.0	190.2	184.2	172.1	162.5	164.9
77.5°	3593.0	3127.2	1008.7	558.5	288.9	166.1	151.7	148.1	138.4	125.2	133.6
80°	2426.7	2199.1	588.6	351.5	181.7	121.6	116.7	115.6	104.7	90.3	91.5
82.5°	1651.5	1620.2	305.8	199.8	104.7	71.0	68.6	71.0	59.0	48.2	48.2
85°	645.2	881.1	144.5	78.2	33.7	10.8	15.7	16.8	9.6	4.8	6.0
87.5°	12.1	90.3	3.6	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: P646897
 CATALOG NUMBER: GALN-SA4C-835-U-SLL

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	5864.4	5864.4	5864.4	5864.4	5864.4	5864.4	5864.4	5864.4	5864.4	5864.4	5864.4
2.5°	4889.4	4878.6	4896.6	4819.7	4835.3	4864.2	4878.6	4887.0	5006.2	4978.5	5054.3
5°	3814.5	3803.7	3873.5	3883.1	3919.3	3912.0	3946.9	3955.4	3998.7	4014.4	4120.3
7.5°	2774.6	2821.5	2900.9	2941.9	3003.3	3022.5	3004.4	3049.0	2958.7	3023.7	3043.0
10°	2229.3	2172.7	2139.0	2232.9	2244.9	2334.0	2297.9	2269.0	2322.0	2324.3	2374.9
12.5°	1856.1	1734.6	1653.9	1680.4	1709.3	1747.8	1753.8	1811.5	1850.1	1886.2	1916.3
15°	1455.3	1413.2	1339.7	1303.6	1344.6	1360.2	1397.5	1445.7	1486.6	1497.4	1538.4
17.5°	1117.0	1124.2	1112.3	1090.6	1115.9	1127.9	1130.3	1131.5	1142.3	1135.1	1195.2
20°	899.2	924.4	954.6	959.3	967.8	973.8	962.9	922.1	923.2	948.5	967.8
22.5°	813.7	818.5	852.2	863.0	889.6	878.7	847.4	828.2	825.8	831.8	841.4
25°	746.3	753.6	777.6	794.4	814.9	795.7	772.7	754.7	752.3	758.3	768.0
27.5°	686.1	696.9	718.6	735.5	754.7	736.6	715.0	699.4	698.1	696.9	703.0
30°	638.0	650.0	665.6	684.9	698.1	682.5	662.0	653.6	652.4	650.0	652.4
32.5°	589.8	609.1	624.8	634.4	647.6	635.6	619.9	615.1	606.7	599.5	595.9
35°	535.7	556.1	580.2	592.3	605.5	593.4	582.6	562.1	547.7	546.5	548.9
37.5°	504.3	512.8	532.0	552.5	565.7	559.7	539.3	518.8	515.2	515.2	517.6
40°	476.7	480.3	488.7	515.2	539.3	521.2	496.0	489.9	489.9	488.7	489.9
42.5°	449.0	452.6	452.6	473.1	511.6	482.7	463.5	463.5	463.5	464.6	468.2
45°	423.7	424.9	423.7	438.2	474.3	450.2	436.9	440.6	442.9	445.4	447.8
47.5°	402.1	403.2	402.1	414.1	432.1	422.5	415.3	420.1	424.9	428.5	431.0
50°	382.8	381.6	384.0	391.2	399.6	402.1	397.2	404.4	406.8	411.7	417.7
52.5°	365.9	364.7	367.1	370.8	382.8	382.8	382.8	388.8	393.6	398.4	406.8
55°	346.6	347.9	351.5	356.3	371.9	369.6	370.8	375.5	380.4	387.6	392.4
57.5°	328.6	331.1	335.8	343.0	358.7	357.5	358.7	361.1	367.1	370.8	375.5
60°	308.1	313.0	319.0	323.8	339.4	338.3	344.3	349.1	352.7	352.7	355.1
62.5°	287.7	294.9	300.9	304.5	321.4	322.6	331.1	334.7	337.0	334.7	338.3
65°	267.2	278.0	280.5	285.2	302.2	303.3	313.0	321.4	319.0	316.6	322.6
67.5°	246.7	260.0	258.8	264.8	281.6	284.1	292.5	306.9	302.2	299.7	304.5
70°	223.9	233.5	234.7	238.3	261.2	257.6	270.8	284.1	280.5	281.6	281.6
72.5°	198.6	207.0	207.0	214.2	238.3	232.3	243.1	257.6	257.6	256.4	256.4
75°	168.5	173.4	178.1	189.0	214.2	207.0	214.2	227.5	229.9	227.5	227.5
77.5°	136.0	143.2	145.6	160.1	178.1	177.0	184.2	190.2	195.0	192.6	192.6
80°	96.3	103.5	113.1	128.8	139.6	143.2	146.9	151.7	154.1	154.1	156.4
82.5°	54.2	65.0	73.4	89.1	93.9	112.0	110.7	114.3	110.7	97.5	108.4
85°	12.1	22.9	32.5	41.0	47.0	65.0	68.6	77.0	63.8	59.0	59.0
87.5°	0.0	0.0	0.0	0.0	0.0	9.6	19.3	26.5	22.9	19.3	19.3
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: P646897

CATALOG NUMBER: GALN-SA4C-835-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5864.4	5864.4	5864.4	5864.4	5864.4	5864.4	5864.4	5864.4	5864.4	5864.4
2.5°	5118.2	5222.9	5349.3	5567.1	5720.0	5884.9	6051.0	6228.0	6275.0	6323.0
5°	4149.2	4355.0	4466.9	4759.5	5066.4	5456.4	5775.4	6124.5	6270.1	6303.8
7.5°	3142.9	3282.5	3576.2	3872.3	4252.7	4662.0	5150.7	5694.8	5864.4	5935.5
10°	2491.7	2681.9	2939.5	3257.2	3590.7	4031.2	4582.5	5218.1	5458.8	5498.5
12.5°	2120.9	2332.8	2613.3	2949.1	3264.5	3596.7	4152.8	4808.8	5066.4	5151.9
15°	1696.1	1952.4	2276.2	2630.1	2973.1	3336.7	3900.0	4640.3	4937.6	5037.5
17.5°	1332.5	1539.5	1889.8	2273.8	2680.7	3140.5	3847.0	4720.9	5086.8	5179.5
20°	1019.5	1167.6	1462.5	1868.2	2344.9	2946.7	3860.3	5025.5	5463.6	5590.0
22.5°	881.1	957.0	1136.3	1522.7	2055.9	2778.2	3914.5	5443.2	5971.6	6182.3
25°	798.0	837.8	938.9	1191.6	1780.3	2614.4	4038.4	6005.3	6681.8	6821.4
27.5°	727.0	755.9	818.5	1000.3	1529.9	2462.8	4182.9	6628.8	7345.0	7553.3
30°	659.6	698.1	757.2	888.3	1369.8	2324.3	4364.7	7134.4	7903.5	8097.3
32.5°	607.8	646.4	700.6	810.1	1233.8	2178.7	4473.0	7578.5	8359.8	8524.7
35°	565.7	598.2	654.8	747.5	1130.3	2068.0	4451.3	7931.2	8801.5	8970.0
37.5°	535.7	563.4	619.9	688.5	1052.0	1952.4	4440.5	8397.0	9339.5	9534.6
40°	507.9	536.8	588.6	650.0	973.8	1816.4	4446.5	8859.3	9912.5	10107.5
42.5°	486.3	518.8	560.9	639.2	893.2	1706.9	4446.5	9261.3	10410.8	10598.6
45°	468.2	503.2	544.1	638.0	829.4	1623.8	4416.4	9606.8	10808.1	10968.2
47.5°	452.6	491.1	550.1	616.3	813.7	1563.7	4389.9	9883.7	11131.9	11282.3
50°	441.8	487.5	585.0	591.0	818.5	1545.6	4517.5	10232.7	11417.2	11547.1
52.5°	433.3	488.7	583.8	553.7	810.1	1557.6	4783.5	10778.0	11813.2	11822.8
55°	416.5	487.5	553.7	511.6	775.2	1578.1	5125.4	11570.0	12433.1	12440.3
57.5°	399.6	474.3	514.0	475.4	704.2	1578.1	5537.1	12320.0	13180.6	13186.6
60°	382.8	493.5	451.4	444.2	611.4	1549.2	5971.6	12649.8	13415.3	13476.7
62.5°	365.9	497.1	403.2	416.5	544.1	1479.3	6295.4	12285.0	13097.6	13185.4
65°	346.6	400.8	371.9	387.6	509.2	1362.6	6193.1	11617.0	12500.5	12605.2
67.5°	323.8	339.4	338.3	357.5	497.1	1190.5	5653.8	10772.0	11857.8	11851.7
70°	296.1	304.5	308.1	328.6	474.3	1056.9	4711.3	9675.4	10999.5	11134.3
72.5°	267.2	274.4	278.0	296.1	451.4	981.0	3656.8	8164.7	9527.3	9738.0
75°	235.9	240.8	245.5	261.2	427.3	869.1	2604.8	6232.8	7296.9	7627.9
77.5°	203.4	203.4	209.5	225.1	359.9	717.4	1747.8	4371.9	4943.6	5281.9
80°	164.9	166.1	163.7	180.6	264.8	491.1	993.1	2920.2	3289.7	3354.8
82.5°	126.4	122.8	123.9	132.4	197.4	334.7	529.6	1814.0	1848.9	1812.8
85°	79.5	79.5	77.0	86.7	126.4	174.5	288.9	1111.0	867.9	825.8
87.5°	32.5	26.5	30.1	34.9	60.2	71.0	113.1	228.7	87.9	80.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)