

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: P452697

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452697
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-SA3C-830-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 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: 14376 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

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

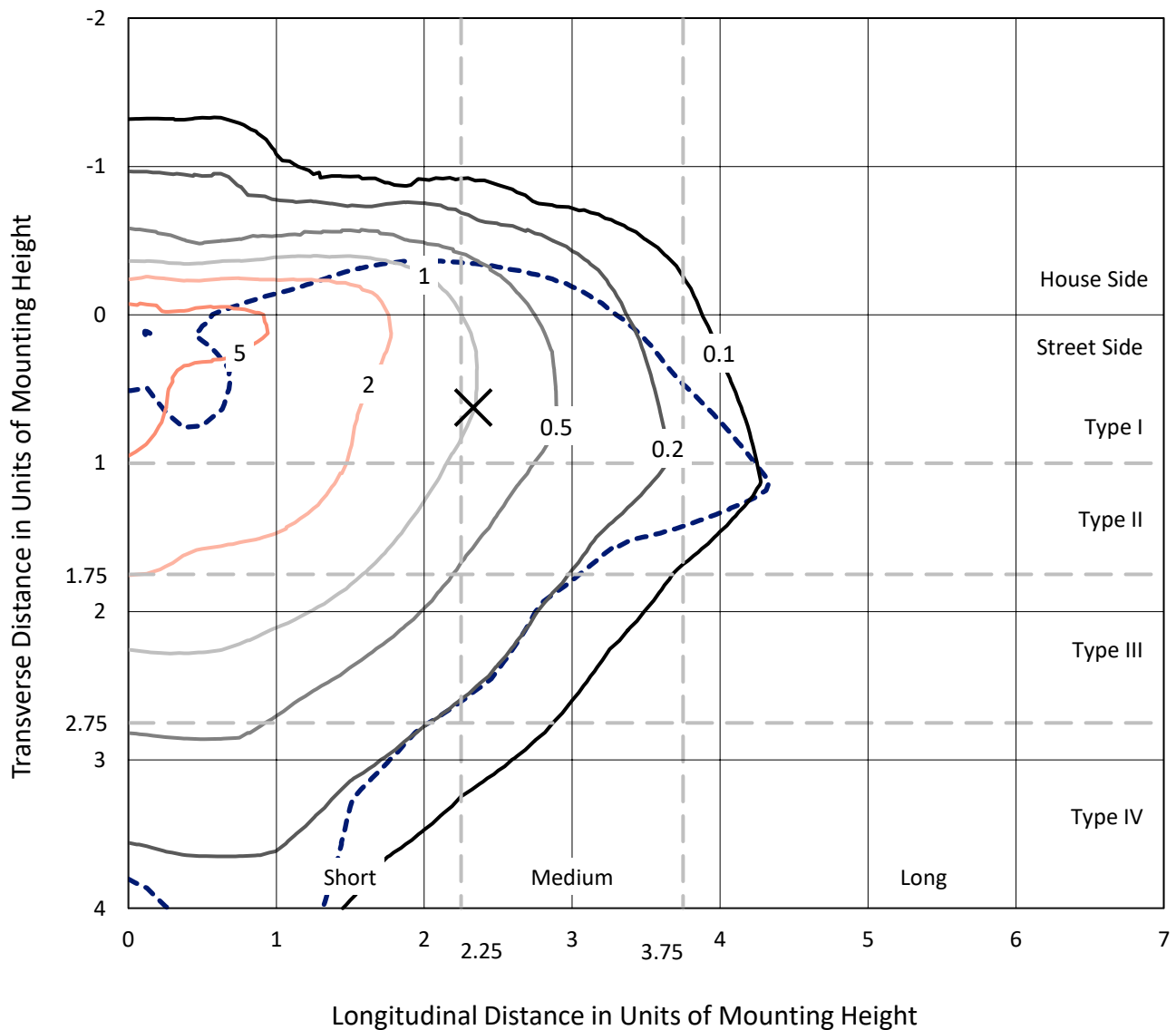


REPORT NUMBER: P452697

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

Iso-Footcandle Lines of Horizontal Illumination

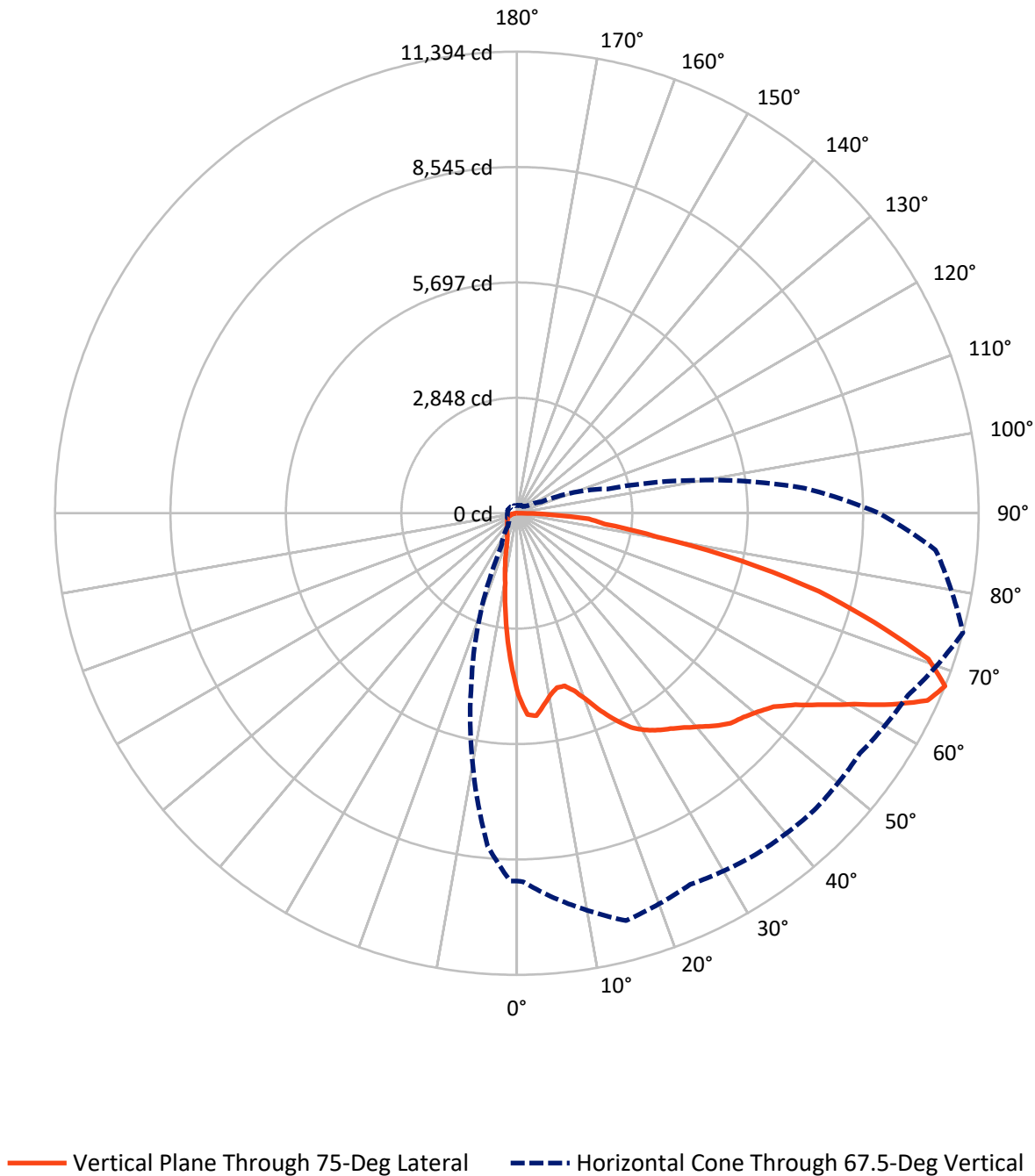
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type III - Medium - N/A

REPORT NUMBER: P452697
CATALOG NUMBER: GALN-SA3C-830-U-SLL

Luminous Intensity Polar Plot



REPORT NUMBER: P452697

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

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2429.9	0.0	2429.9
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	11946.2	0.0	11946.2
	% Fixture	83.1	0.0	83.1
Total	Lumens	14376.0	0.0	14376.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.7	2.4
10°-20°	710.5	4.9
20°-30°	1022.4	7.1
30°-40°	1472.5	10.2
40°-50°	2068.4	14.4
50°-60°	2884.7	20.1
60°-70°	3429.8	23.9
70°-80°	2019.9	14.1
80°-90°	427.1	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°	14376.0	100.0
0°-180°	14376.0	100.0

Coefficient of Utilization



REPORT NUMBER: P452697

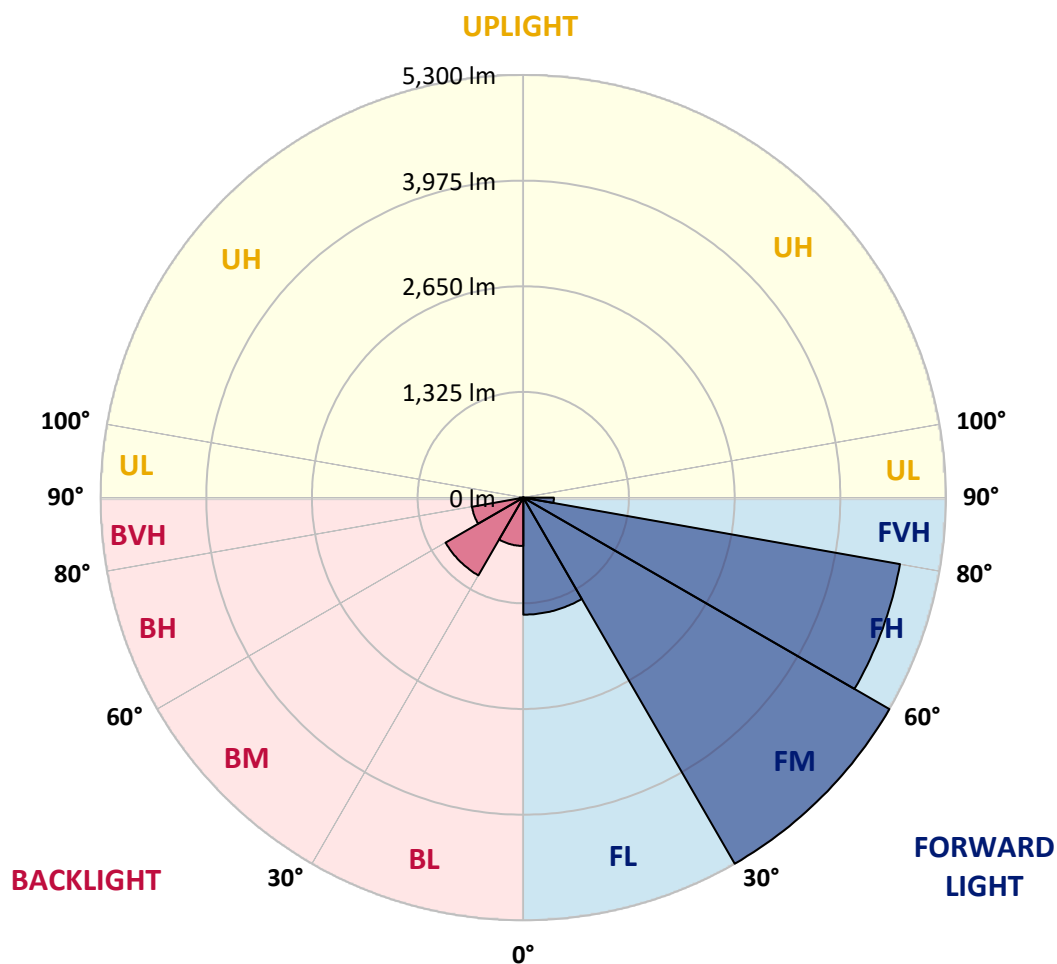
CATALOG NUMBER: GALN-SA3C-830-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1467.4	10.2			
FM	(30°-60°)	5299.9	36.9			
FH	(60°-80°)	4795.9	33.4			G2/5000
FVH	(80°-90°)	383.0	2.7			G3/500
BL	(0°-30°)	606.1	4.2	B2/1000		
BM	(30°-60°)	1125.8	7.8	B2/2500		
BH	(60°-80°)	653.8	4.5	B2/1000		G2/1000
BVH	(80°-90°)	44.2	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-G3

Type III Medium



REPORT NUMBER: P452697

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

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4491.4	4491.4	4491.4	4491.4	4491.4	4491.4	4491.4	4491.4	4491.4	4491.4	4491.4
2.5°	4842.6	4849.1	4890.6	5011.3	5094.3	5124.7	5145.9	5106.3	5067.6	4973.5	4831.6
5°	4827.9	4865.7	4973.5	5244.6	5458.5	5550.6	5578.3	5459.4	5263.0	5021.5	4731.1
7.5°	4545.8	4596.5	4762.4	5216.9	5594.0	5809.7	5781.1	5566.3	5212.3	4781.8	4376.2
10°	4211.2	4267.4	4467.4	5016.9	5502.7	5799.6	5799.6	5537.7	5067.6	4555.9	4088.5
12.5°	3945.6	4004.6	4233.3	4811.3	5312.8	5594.0	5641.0	5416.0	4963.4	4413.0	3899.6
15°	3858.1	3915.2	4161.4	4686.8	5111.8	5283.3	5299.0	5225.2	4912.7	4423.2	3891.3
17.5°	3966.9	4040.6	4289.5	4723.7	4927.5	4937.6	4949.6	5007.7	4918.2	4608.5	4059.0
20°	4281.2	4360.5	4620.5	4842.6	4766.1	4661.0	4667.5	4816.8	4983.7	4914.5	4460.1
22.5°	4734.8	4803.9	5070.3	5051.9	4697.9	4481.3	4436.1	4644.4	5080.5	5296.2	4886.9
25°	5224.3	5305.4	5611.5	5362.6	4717.3	4374.3	4345.7	4543.0	5181.0	5653.0	5380.1
27.5°	5784.8	5864.1	6105.6	5676.0	4818.7	4366.0	4331.9	4533.8	5271.3	5983.0	5851.2
30°	6201.5	6274.3	6438.4	5939.7	4943.1	4421.3	4378.9	4606.6	5348.8	6208.9	6310.3
32.5°	6528.8	6604.4	6693.8	6103.8	5107.2	4521.8	4443.5	4739.4	5450.2	6381.3	6650.4
35°	6869.9	6959.3	6952.8	6249.4	5260.3	4638.0	4561.5	4931.1	5609.6	6531.5	7081.9
37.5°	7302.2	7338.2	7292.1	6380.3	5443.7	4847.2	4804.8	5216.0	5836.4	6713.1	7586.2
40°	7741.0	7812.9	7576.0	6538.9	5666.8	5240.9	5236.3	5637.3	6105.6	6926.1	8074.8
42.5°	8117.2	8178.0	7841.5	6677.2	5936.9	5721.2	5756.2	6202.4	6458.7	7173.2	8467.5
45°	8400.2	8454.6	8086.7	6810.9	6292.8	6276.2	6482.7	6808.1	6904.0	7395.3	8697.9
47.5°	8640.8	8693.3	8257.3	7013.7	6732.5	6939.0	7298.5	7439.6	7284.7	7522.5	8956.1
50°	8843.6	8859.3	8374.4	7255.2	7278.2	7751.2	8099.6	8190.9	7660.8	7705.1	9180.1
52.5°	9054.7	9034.4	8576.3	7559.4	7868.3	8521.9	8775.4	8870.3	8021.3	7930.0	9506.4
55°	9527.6	9547.0	9028.9	7942.9	8464.7	9278.7	9612.4	9521.2	8420.5	8343.9	9921.3
57.5°	10099.2	10082.6	9665.9	8543.1	9072.2	9983.0	10232.0	10085.4	8953.3	8912.7	10341.7
60°	10321.4	10343.5	10198.8	9188.4	9671.5	10599.8	10854.2	10626.5	9592.2	9573.7	10658.8
62.5°	10098.3	10222.7	10320.5	9762.7	10182.2	11053.3	11305.9	11046.0	10258.7	10392.4	10881.0
65°	9653.9	9680.7	10013.5	10249.5	10428.3	11128.0	11259.9	11121.6	10815.5	11138.2	10870.8
67.5°	9076.8	9099.9	9489.8	10409.0	10111.2	10279.9	10372.1	10331.5	10643.1	11393.5	10370.2
70°	8527.4	8509.0	8921.0	10002.4	8802.1	8545.8	8622.3	8495.1	9183.8	10769.4	9388.4
72.5°	7458.0	7524.4	7966.9	8872.2	6969.4	6552.7	6719.6	6390.5	7063.4	9223.4	7620.3
75°	5842.0	5857.6	6596.1	7446.0	5257.5	4600.2	4826.0	4688.7	5410.5	7694.0	5262.1
77.5°	4045.2	4010.2	4803.9	5687.1	3749.3	3367.6	3371.3	3305.9	3777.9	5665.0	3575.1
80°	2569.3	2515.8	3007.2	3513.3	2576.7	2756.4	2666.1	2663.3	2459.6	3494.8	2161.8
82.5°	1388.4	1447.4	1900.0	2202.4	1848.4	2130.5	1952.5	1895.4	1688.0	2187.6	1382.8
85°	632.4	687.7	1013.1	1498.1	1404.0	1419.7	948.6	1119.2	1396.6	1776.5	738.4
87.5°	61.8	79.3	209.3	707.1	479.4	378.0	141.0	272.0	351.2	631.5	59.0
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: P452697

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4491.4	4491.4	4491.4	4491.4	4491.4	4491.4	4491.4	4491.4	4491.4	4491.4	4491.4
2.5°	4773.5	4725.6	4562.4	4427.8	4284.9	4176.1	4034.1	3939.2	3873.7	3775.1	3763.1
5°	4554.1	4437.0	4153.1	3863.6	3613.8	3425.7	3234.9	3059.7	2956.5	2924.2	2882.7
7.5°	4184.4	3987.1	3622.1	3290.2	3003.5	2723.2	2507.5	2354.5	2252.2	2192.2	2120.3
10°	3880.2	3651.6	3207.2	2800.7	2564.7	2390.4	2200.5	2036.4	1910.1	1802.3	1743.3
12.5°	3675.5	3417.4	2917.8	2587.7	2405.2	2219.9	1997.7	1813.3	1627.1	1504.5	1452.0
15°	3613.8	3340.9	2828.3	2481.7	2219.9	1977.4	1728.5	1487.9	1303.5	1187.4	1148.7
17.5°	3765.0	3434.9	2827.4	2340.7	2002.3	1712.9	1393.9	1168.0	979.0	892.4	864.7
20°	4047.1	3615.6	2835.7	2201.5	1766.3	1358.9	1014.1	828.8	738.4	701.6	687.7
22.5°	4440.7	3891.3	2860.6	2064.1	1508.2	1043.6	759.6	665.6	633.3	626.9	624.1
25°	4925.6	4232.4	2944.5	1940.6	1290.6	796.5	635.2	592.8	574.3	567.9	567.0
27.5°	5371.8	4673.0	3045.9	1834.5	1080.4	686.8	574.3	538.4	519.9	519.0	520.9
30°	5774.7	5041.8	3130.7	1715.6	921.0	610.3	534.7	498.7	481.2	480.3	485.8
32.5°	6123.1	5345.1	3193.4	1598.5	832.5	563.3	498.7	460.0	445.3	442.5	445.3
35°	6495.6	5647.4	3164.8	1507.3	781.8	524.6	472.0	434.2	416.7	408.4	408.4
37.5°	6920.6	5959.0	3116.0	1431.7	758.7	492.3	449.0	412.1	394.6	386.3	385.3
40°	7384.3	6270.6	3048.7	1364.4	735.7	472.9	433.3	394.6	373.4	365.1	363.2
42.5°	7793.6	6537.1	2993.3	1320.1	697.9	476.6	419.5	381.7	354.9	343.9	342.9
45°	8149.4	6805.3	2983.2	1294.3	666.5	471.1	415.8	371.5	340.2	328.2	326.3
47.5°	8427.8	7084.7	3041.3	1279.6	632.4	441.6	439.7	365.1	327.3	314.4	312.5
50°	8767.1	7481.1	3174.0	1249.1	601.1	413.9	464.6	364.1	317.1	300.5	295.9
52.5°	9218.8	7997.3	3353.8	1194.8	555.9	388.1	443.4	364.1	305.1	288.5	283.0
55°	9901.9	8655.5	3529.9	1118.2	492.3	354.0	400.1	353.1	287.6	272.9	269.2
57.5°	10354.6	9136.8	3642.4	1012.2	413.0	329.1	344.8	335.6	270.1	254.4	254.4
60°	10377.6	9265.8	3588.9	878.6	363.2	306.1	299.6	338.3	254.4	237.8	236.0
62.5°	10112.1	8949.6	3310.5	758.7	336.5	281.2	271.0	296.8	238.8	222.2	219.4
65°	9697.3	8143.0	2827.4	701.6	321.7	259.0	244.3	243.4	222.2	206.5	202.8
67.5°	8934.9	7116.0	2323.1	668.4	314.4	234.2	220.3	215.7	202.8	189.9	188.1
70°	7811.1	5960.0	1863.1	654.5	310.7	208.3	197.3	191.8	180.7	170.5	169.6
72.5°	6077.0	4834.3	1537.7	645.3	308.8	184.4	172.4	165.0	158.6	149.3	149.3
75°	4365.1	3556.6	1173.6	581.7	285.8	158.6	145.7	141.0	131.8	124.5	126.3
77.5°	2751.8	2395.0	772.5	427.8	221.3	127.2	116.2	113.4	106.0	95.9	102.3
80°	1858.5	1684.3	450.8	269.2	139.2	93.1	89.4	88.5	80.2	69.1	70.1
82.5°	1264.8	1240.9	234.2	153.0	80.2	54.4	52.5	54.4	45.2	36.9	36.9
85°	494.1	674.8	110.6	59.9	25.8	8.3	12.0	12.9	7.4	3.7	4.6
87.5°	9.2	69.1	2.8	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: P452697

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

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4491.4	4491.4	4491.4	4491.4	4491.4	4491.4	4491.4	4491.4	4491.4	4491.4	4491.4
2.5°	3744.7	3736.4	3750.2	3691.2	3703.2	3725.3	3736.4	3742.8	3834.1	3812.9	3871.0
5°	2921.4	2913.1	2966.6	2974.0	3001.6	2996.1	3022.8	3029.3	3062.5	3074.5	3155.6
7.5°	2124.9	2160.9	2221.7	2253.1	2300.1	2314.8	2301.0	2335.1	2266.0	2315.8	2330.5
10°	1707.3	1664.0	1638.2	1710.1	1719.3	1787.5	1759.9	1737.7	1778.3	1780.2	1818.9
12.5°	1421.5	1328.4	1266.7	1286.9	1309.1	1338.6	1343.2	1387.4	1416.9	1444.6	1467.6
15°	1114.6	1082.3	1026.1	998.4	1029.7	1041.7	1070.3	1107.2	1138.5	1146.8	1178.2
17.5°	855.5	861.0	851.8	835.2	854.6	863.8	865.6	866.6	874.9	869.3	915.4
20°	688.6	708.0	731.1	734.7	741.2	745.8	737.5	706.2	707.1	726.4	741.2
22.5°	623.2	626.9	652.7	661.0	681.3	673.0	649.0	634.3	632.4	637.0	644.4
25°	571.6	577.1	595.5	608.4	624.1	609.4	591.8	578.0	576.2	580.8	588.2
27.5°	525.5	533.8	550.4	563.3	578.0	564.2	547.6	535.6	534.7	533.8	538.4
30°	488.6	497.8	509.8	524.6	534.7	522.7	507.0	500.6	499.7	497.8	499.7
32.5°	451.7	466.5	478.5	485.8	496.0	486.8	474.8	471.1	464.6	459.1	456.3
35°	410.2	425.9	444.3	453.6	463.7	454.5	446.2	430.5	419.5	418.5	420.4
37.5°	386.3	392.7	407.5	423.1	433.3	428.7	413.0	397.3	394.6	394.6	396.4
40°	365.1	367.8	374.3	394.6	413.0	399.2	379.8	375.2	375.2	374.3	375.2
42.5°	343.9	346.6	346.6	362.3	391.8	369.7	354.9	354.9	354.9	355.8	358.6
45°	324.5	325.4	324.5	335.6	363.2	344.8	334.6	337.4	339.3	341.1	342.9
47.5°	307.9	308.8	307.9	317.1	331.0	323.6	318.0	321.7	325.4	328.2	330.0
50°	293.2	292.2	294.1	299.6	306.1	307.9	304.2	309.8	311.6	315.3	319.9
52.5°	280.3	279.3	281.2	283.9	293.2	293.2	293.2	297.8	301.5	305.1	311.6
55°	265.5	266.4	269.2	272.9	284.9	283.0	283.9	287.6	291.3	296.8	300.5
57.5°	251.7	253.5	257.2	262.7	274.7	273.8	274.7	276.6	281.2	283.9	287.6
60°	236.0	239.7	244.3	248.0	260.0	259.0	263.7	267.3	270.1	270.1	272.0
62.5°	220.3	225.9	230.5	233.2	246.1	247.1	253.5	256.3	258.1	256.3	259.0
65°	204.7	213.0	214.8	218.5	231.4	232.3	239.7	246.1	244.3	242.5	247.1
67.5°	189.0	199.1	198.2	202.8	215.7	217.6	224.0	235.1	231.4	229.5	233.2
70°	171.5	178.8	179.8	182.5	200.0	197.3	207.4	217.6	214.8	215.7	215.7
72.5°	152.1	158.6	158.6	164.1	182.5	177.9	186.2	197.3	197.3	196.4	196.4
75°	129.1	132.8	136.4	144.7	164.1	158.6	164.1	174.2	176.1	174.2	174.2
77.5°	104.2	109.7	111.5	122.6	136.4	135.5	141.0	145.7	149.3	147.5	147.5
80°	73.8	79.3	86.7	98.6	106.9	109.7	112.5	116.2	118.0	118.0	119.8
82.5°	41.5	49.8	56.2	68.2	71.9	85.7	84.8	87.6	84.8	74.7	83.0
85°	9.2	17.5	24.9	31.3	36.0	49.8	52.5	59.0	48.9	45.2	45.2
87.5°	0.0	0.0	0.0	0.0	0.0	7.4	14.8	20.3	17.5	14.8	14.8
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: P452697

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

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4491.4	4491.4	4491.4	4491.4	4491.4	4491.4	4491.4	4491.4	4491.4	4491.4
2.5°	3919.8	4000.0	4096.8	4263.7	4380.8	4507.1	4634.3	4769.8	4805.8	4842.6
5°	3177.7	3335.4	3421.1	3645.1	3880.2	4178.9	4423.2	4690.5	4802.1	4827.9
7.5°	2407.0	2514.0	2738.9	2965.7	3257.0	3570.4	3944.7	4361.4	4491.4	4545.8
10°	1908.3	2054.0	2251.2	2494.6	2750.0	3087.4	3509.6	3996.4	4180.7	4211.2
12.5°	1624.4	1786.6	2001.4	2258.6	2500.1	2754.6	3180.5	3682.9	3880.2	3945.6
15°	1298.9	1495.3	1743.3	2014.3	2277.0	2555.5	2986.9	3553.8	3781.6	3858.1
17.5°	1020.5	1179.1	1447.4	1741.4	2053.0	2405.2	2946.3	3615.6	3895.9	3966.9
20°	780.8	894.2	1120.1	1430.8	1795.8	2256.8	2956.5	3848.9	4184.4	4281.2
22.5°	674.8	732.9	870.3	1166.2	1574.6	2127.7	2998.0	4168.7	4573.4	4734.8
25°	611.2	641.6	719.1	912.7	1363.5	2002.3	3092.9	4599.3	5117.4	5224.3
27.5°	556.8	578.9	626.9	766.1	1171.7	1886.2	3203.5	5076.8	5625.3	5784.8
30°	505.2	534.7	579.9	680.3	1049.1	1780.2	3342.7	5464.0	6053.1	6201.5
32.5°	465.5	495.0	536.5	620.4	944.9	1668.6	3425.7	5804.2	6402.5	6528.8
35°	433.3	458.2	501.5	572.5	865.6	1583.8	3409.1	6074.3	6740.8	6869.9
37.5°	410.2	431.4	474.8	527.3	805.7	1495.3	3400.8	6431.0	7152.9	7302.2
40°	389.0	411.2	450.8	497.8	745.8	1391.1	3405.4	6785.0	7591.7	7741.0
42.5°	372.4	397.3	429.6	489.5	684.0	1307.2	3405.4	7092.9	7973.3	8117.2
45°	358.6	385.3	416.7	488.6	635.2	1243.6	3382.4	7357.5	8277.6	8400.2
47.5°	346.6	376.1	421.3	472.0	623.2	1197.5	3362.1	7569.6	8525.6	8640.8
50°	338.3	373.4	448.0	452.6	626.9	1183.7	3459.8	7836.9	8744.0	8843.6
52.5°	331.9	374.3	447.1	424.1	620.4	1192.9	3663.6	8254.5	9047.3	9054.7
55°	319.0	373.4	424.1	391.8	593.7	1208.6	3925.4	8861.1	9522.1	9527.6
57.5°	306.1	363.2	393.6	364.1	539.3	1208.6	4240.7	9435.4	10094.6	10099.2
60°	293.2	378.0	345.7	340.2	468.3	1186.5	4573.4	9688.0	10274.4	10321.4
62.5°	280.3	380.7	308.8	319.0	416.7	1133.0	4821.4	9408.7	10031.0	10098.3
65°	265.5	307.0	284.9	296.8	390.0	1043.6	4743.1	8897.1	9573.7	9653.9
67.5°	248.0	260.0	259.0	273.8	380.7	911.7	4330.1	8249.9	9081.4	9076.8
70°	226.8	233.2	236.0	251.7	363.2	809.4	3608.2	7410.1	8424.1	8527.4
72.5°	204.7	210.2	213.0	226.8	345.7	751.3	2800.7	6253.1	7296.7	7458.0
75°	180.7	184.4	188.1	200.0	327.3	665.6	1994.9	4773.5	5588.4	5842.0
77.5°	155.8	155.8	160.4	172.4	275.6	549.4	1338.6	3348.3	3786.2	4045.2
80°	126.3	127.2	125.4	138.3	202.8	376.1	760.6	2236.5	2519.5	2569.3
82.5°	96.8	94.0	95.0	101.4	151.2	256.3	405.6	1389.3	1416.0	1388.4
85°	60.8	60.8	59.0	66.4	96.8	133.7	221.3	850.9	664.7	632.4
87.5°	24.9	20.3	23.0	26.7	46.1	54.4	86.7	175.2	67.3	61.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)