

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: P452233

Luminaire Tested: **GALN-SA3A-830-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452233  
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-SA3A-830-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3000K, 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: 9351 lumens  
Efficiency: N/A  
Efficacy: 100.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G3

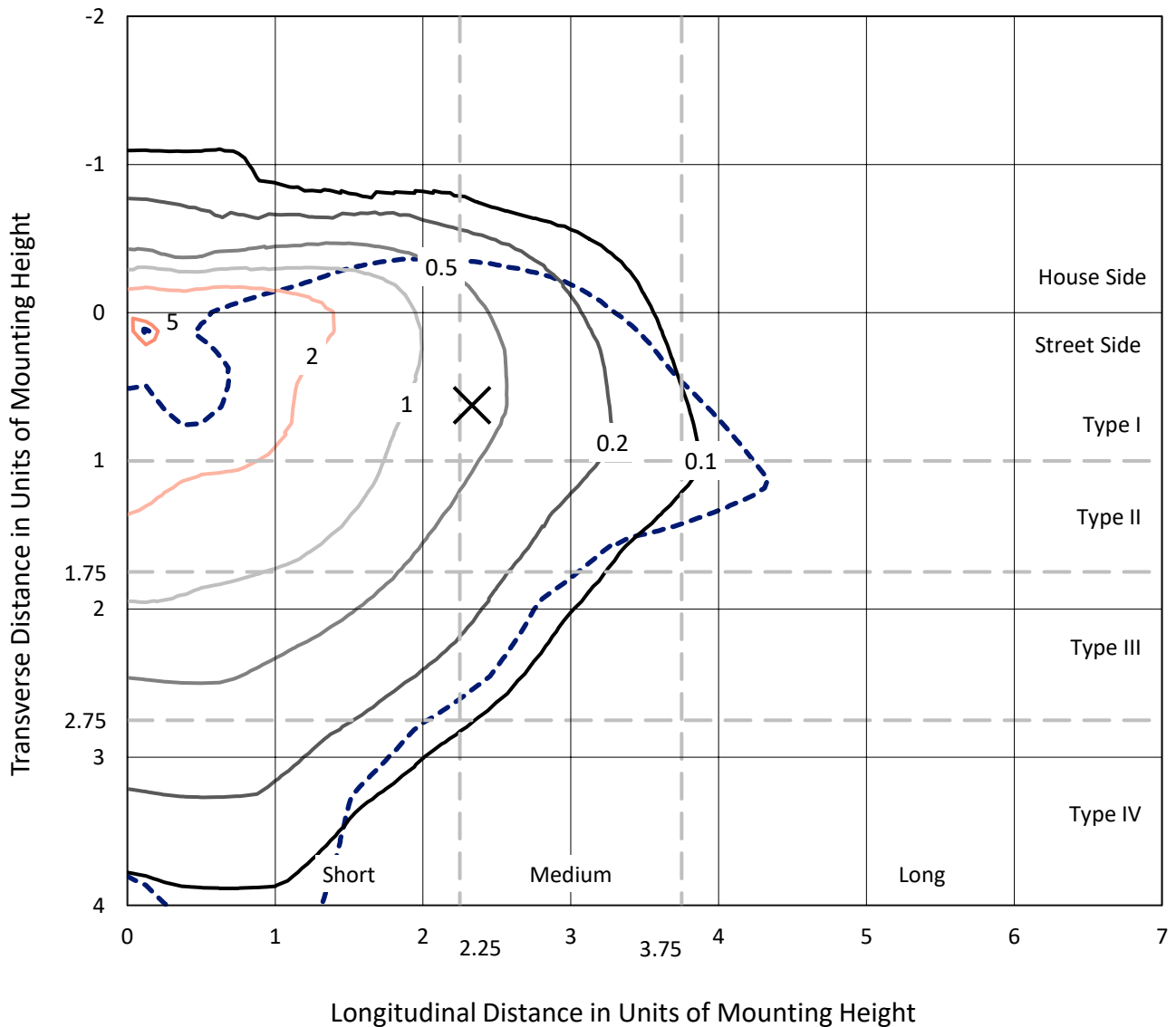
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P452233  
 CATALOG NUMBER: GALN-SA3A-830-U-SLL

### Iso-Footcandle Lines of Horizontal Illumination

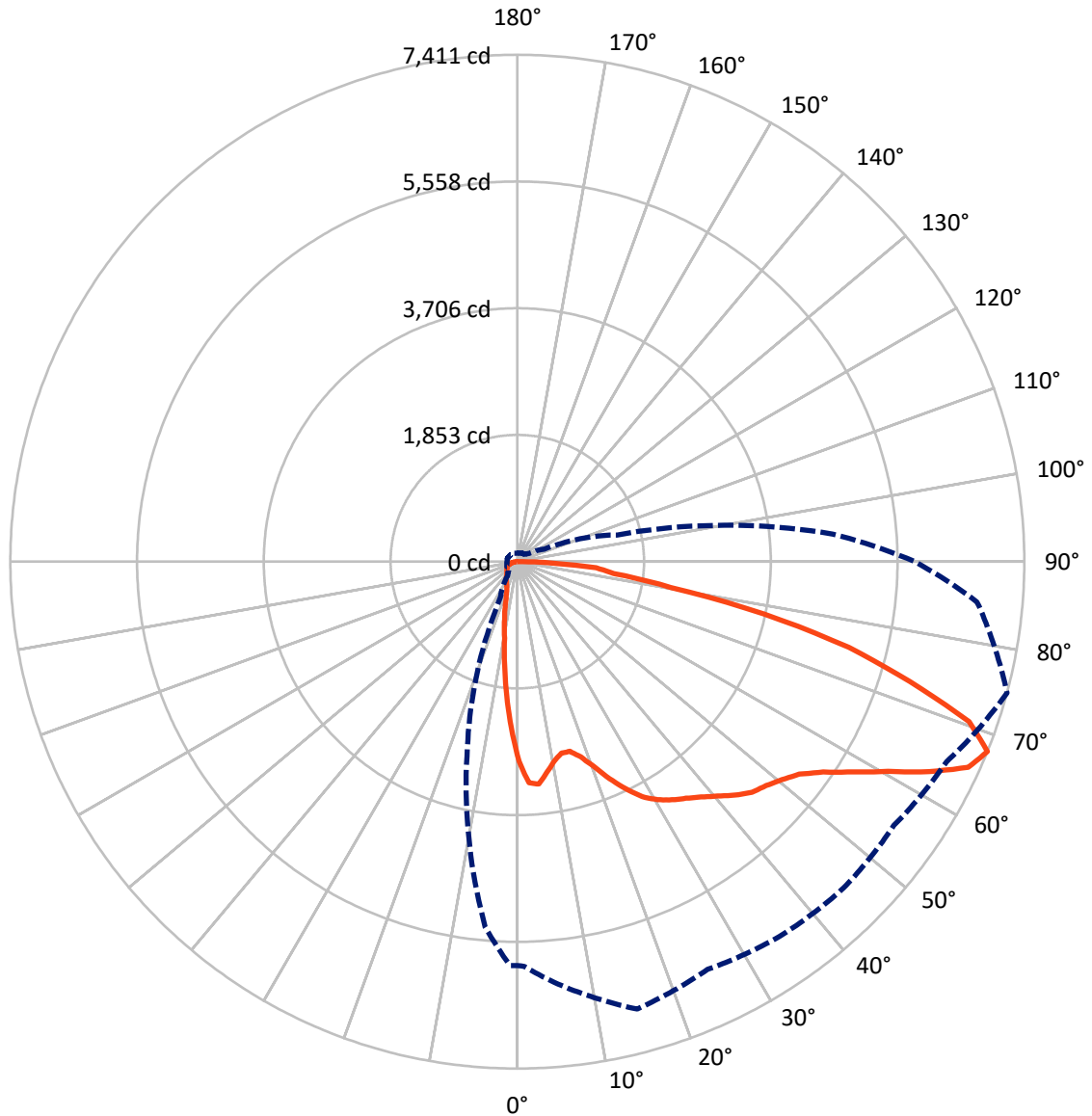
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc  
 Type III - Medium - N/A

REPORT NUMBER: P452233  
CATALOG NUMBER: GALN-SA3A-830-U-SLL

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P452233

CATALOG NUMBER: GALN-SA3A-830-U-SLL

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1580.5	0.0	1580.5
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	7770.5	0.0	7770.5
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	9351.0	0.0	9351.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	221.6	2.4
10°-20°	462.1	4.9
20°-30°	665.0	7.1
30°-40°	957.8	10.2
40°-50°	1345.4	14.4
50°-60°	1876.4	20.1
60°-70°	2230.9	23.9
70°-80°	1313.9	14.1
80°-90°	277.8	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°	9351.0	100.0
0°-180°	9351.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P452233

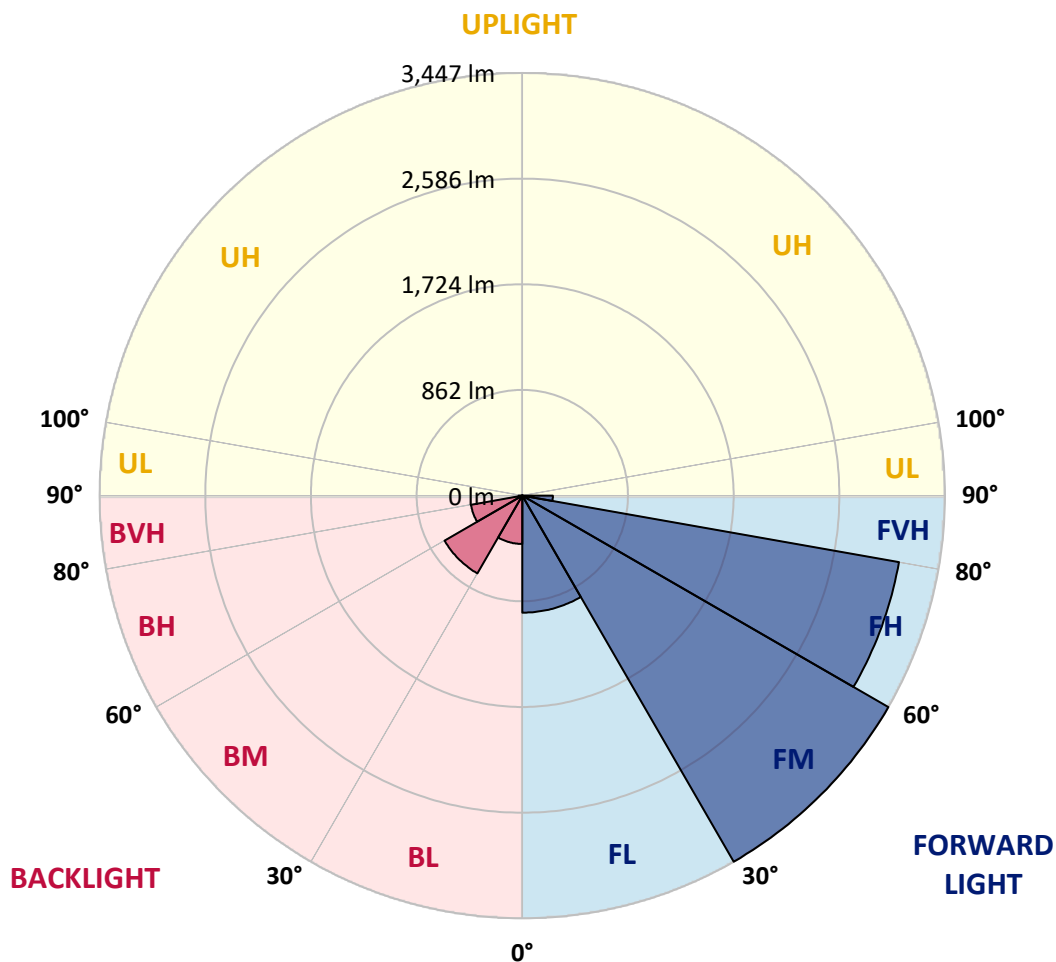
CATALOG NUMBER: GALN-SA3A-830-U-SLL

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	954.5	10.2			
FM	(30°-60°)	3447.4	36.9			
FH	(60°-80°)	3119.5	33.4			G2/5000
FVH	(80°-90°)	249.1	2.7			G3/500
BL	(0°-30°)	394.2	4.2	B1/500		
BM	(30°-60°)	732.3	7.8	B1/1000		
BH	(60°-80°)	425.3	4.5	B1/500		G1/500
BVH	(80°-90°)	28.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type III Medium





REPORT NUMBER: P452233

CATALOG NUMBER: GALN-SA3A-830-U-SLL

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5
2.5°	3149.9	3154.1	3181.1	3259.7	3313.6	3333.4	3347.2	3321.4	3296.3	3235.1	3142.7
5°	3140.3	3164.9	3235.1	3411.4	3550.5	3610.5	3628.5	3551.1	3423.4	3266.3	3077.4
7.5°	2956.9	2989.8	3097.8	3393.4	3638.6	3779.0	3760.4	3620.7	3390.4	3110.4	2846.5
10°	2739.2	2775.8	2905.9	3263.3	3579.3	3772.4	3772.4	3602.1	3296.3	2963.4	2659.4
12.5°	2566.5	2604.9	2753.6	3129.6	3455.8	3638.6	3669.2	3522.9	3228.5	2870.5	2536.5
15°	2509.5	2546.7	2706.8	3048.6	3325.0	3436.6	3446.8	3398.8	3195.5	2877.1	2531.1
17.5°	2580.3	2628.2	2790.2	3072.6	3205.1	3211.7	3219.5	3257.3	3199.1	2997.6	2640.2
20°	2784.8	2836.3	3005.4	3149.9	3100.2	3031.8	3036.0	3133.1	3241.7	3196.7	2901.1
22.5°	3079.8	3124.8	3298.1	3286.1	3055.8	2914.9	2885.5	3021.0	3304.6	3445.0	3178.7
25°	3398.2	3451.0	3650.0	3488.1	3068.4	2845.3	2826.7	2955.1	3370.0	3677.0	3499.5
27.5°	3762.8	3814.3	3971.5	3692.0	3134.3	2839.9	2817.7	2949.1	3428.8	3891.7	3806.0
30°	4033.8	4081.2	4187.9	3863.5	3215.3	2875.9	2848.3	2996.4	3479.1	4038.6	4104.6
32.5°	4246.7	4295.9	4354.0	3970.3	3322.0	2941.3	2890.3	3082.8	3545.1	4150.7	4325.8
35°	4468.6	4526.7	4522.5	4065.0	3421.6	3016.8	2967.0	3207.5	3648.8	4248.5	4606.5
37.5°	4749.8	4773.2	4743.2	4150.1	3540.9	3152.9	3125.4	3392.8	3796.4	4366.6	4934.5
40°	5035.2	5082.0	4927.9	4253.3	3686.0	3409.0	3406.0	3666.8	3971.5	4505.1	5252.3
42.5°	5279.9	5319.5	5100.6	4343.2	3861.7	3721.4	3744.2	4034.4	4201.1	4665.8	5507.7
45°	5464.0	5499.4	5260.1	4430.2	4093.2	4082.4	4216.7	4428.4	4490.7	4810.4	5657.7
47.5°	5620.5	5654.7	5371.0	4562.1	4379.2	4513.5	4747.4	4839.1	4738.4	4893.1	5825.6
50°	5752.4	5762.6	5447.2	4719.2	4734.2	5041.8	5268.5	5327.9	4983.1	5011.8	5971.3
52.5°	5889.7	5876.5	5578.5	4917.1	5118.0	5543.1	5708.0	5769.8	5217.5	5158.2	6183.5
55°	6197.3	6209.9	5872.9	5166.5	5505.9	6035.4	6252.5	6193.1	5477.2	5427.4	6453.4
57.5°	6569.1	6558.3	6287.3	5556.9	5901.1	6493.6	6655.5	6560.1	5823.8	5797.4	6726.8
60°	6713.6	6728.0	6633.9	5976.7	6290.9	6894.7	7060.2	6912.1	6239.3	6227.3	6933.1
62.5°	6568.5	6649.5	6713.0	6350.2	6623.1	7189.8	7354.1	7185.0	6672.9	6759.8	7077.6
65°	6279.5	6296.9	6513.4	6666.9	6783.2	7238.3	7324.1	7234.1	7035.0	7244.9	7071.0
67.5°	5904.1	5919.1	6172.8	6770.6	6576.9	6686.6	6746.6	6720.2	6922.9	7411.0	6745.4
70°	5546.7	5534.7	5802.8	6506.2	5725.4	5558.7	5608.5	5525.7	5973.7	7005.1	6106.8
72.5°	4851.1	4894.3	5182.1	5771.0	4533.3	4262.3	4370.8	4156.7	4594.5	5999.5	4956.7
75°	3800.0	3810.1	4290.5	4843.3	3419.8	2992.2	3139.1	3049.8	3519.3	5004.6	3422.8
77.5°	2631.2	2608.5	3124.8	3699.2	2438.8	2190.5	2192.9	2150.3	2457.3	3684.8	2325.4
80°	1671.2	1636.4	1956.0	2285.2	1676.0	1792.9	1734.2	1732.4	1599.9	2273.3	1406.2
82.5°	903.1	941.4	1235.9	1432.6	1202.3	1385.8	1270.0	1232.9	1098.0	1423.0	899.5
85°	411.4	447.3	659.0	974.4	913.3	923.5	617.0	728.0	908.5	1155.5	480.3
87.5°	40.2	51.6	136.1	459.9	311.8	245.9	91.7	176.9	228.5	410.8	38.4
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: P452233

CATALOG NUMBER: GALN-SA3A-830-U-SLL

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5
2.5°	3105.0	3073.8	2967.6	2880.1	2787.2	2716.4	2624.0	2562.3	2519.7	2455.5	2447.8
5°	2962.2	2886.1	2701.4	2513.1	2350.6	2228.3	2104.2	1990.2	1923.1	1902.1	1875.1
7.5°	2721.8	2593.5	2356.0	2140.1	1953.6	1771.4	1631.0	1531.5	1464.9	1426.0	1379.2
10°	2523.9	2375.2	2086.2	1821.7	1668.2	1554.9	1431.4	1324.6	1242.5	1172.3	1133.9
12.5°	2390.8	2222.9	1897.9	1683.2	1564.5	1443.9	1299.4	1179.5	1058.4	978.6	944.4
15°	2350.6	2173.1	1839.7	1614.2	1443.9	1286.2	1124.3	967.8	847.9	772.3	747.2
17.5°	2449.0	2234.3	1839.1	1522.5	1302.4	1114.1	906.7	759.8	636.8	580.5	562.5
20°	2632.4	2351.8	1844.5	1432.0	1148.9	883.9	659.6	539.1	480.3	456.3	447.3
22.5°	2888.5	2531.1	1860.7	1342.6	981.0	678.8	494.1	432.9	412.0	407.8	406.0
25°	3203.9	2753.0	1915.3	1262.3	839.5	518.1	413.2	385.6	373.6	369.4	368.8
27.5°	3494.1	3039.6	1981.2	1193.3	702.8	446.7	373.6	350.2	338.2	337.6	338.8
30°	3756.2	3279.5	2036.4	1115.9	599.0	397.0	347.8	324.4	313.0	312.4	316.0
32.5°	3982.8	3476.7	2077.2	1039.8	541.5	366.4	324.4	299.2	289.6	287.8	289.6
35°	4225.1	3673.4	2058.6	980.4	508.5	341.2	307.0	282.4	271.0	265.6	265.6
37.5°	4501.5	3876.1	2026.8	931.2	493.5	320.2	292.0	268.0	256.6	251.3	250.7
40°	4803.2	4078.8	1983.0	887.5	478.5	307.6	281.8	256.6	242.9	237.5	236.3
42.5°	5069.4	4252.1	1947.0	858.7	453.9	310.0	272.8	248.3	230.9	223.7	223.1
45°	5300.9	4426.6	1940.5	841.9	433.5	306.4	270.4	241.7	221.3	213.5	212.3
47.5°	5482.0	4608.3	1978.2	832.3	411.4	287.2	286.0	237.5	212.9	204.5	203.3
50°	5702.6	4866.1	2064.6	812.5	391.0	269.2	302.2	236.9	206.3	195.5	192.5
52.5°	5996.5	5201.9	2181.5	777.1	361.6	252.5	288.4	236.9	198.5	187.7	184.1
55°	6440.8	5630.1	2296.0	727.4	320.2	230.3	260.2	229.7	187.1	177.5	175.1
57.5°	6735.2	5943.1	2369.2	658.4	268.6	214.1	224.3	218.3	175.7	165.5	165.5
60°	6750.2	6027.0	2334.4	571.5	236.3	199.1	194.9	220.1	165.5	154.7	153.5
62.5°	6577.5	5821.4	2153.3	493.5	218.9	182.9	176.3	193.1	155.3	144.5	142.7
65°	6307.7	5296.7	1839.1	456.3	209.3	168.5	158.9	158.3	144.5	134.3	131.9
67.5°	5811.8	4628.7	1511.1	434.7	204.5	152.3	143.3	140.3	131.9	123.5	122.3
70°	5080.8	3876.7	1211.9	425.7	202.1	135.5	128.3	124.7	117.5	110.9	110.3
72.5°	3952.9	3144.5	1000.2	419.8	200.9	119.9	112.1	107.3	103.1	97.1	97.1
75°	2839.3	2313.4	763.3	378.4	185.9	103.1	94.7	91.7	85.7	81.0	82.2
77.5°	1789.9	1557.9	502.5	278.2	143.9	82.8	75.6	73.8	69.0	62.4	66.6
80°	1208.9	1095.6	293.2	175.1	90.5	60.6	58.2	57.6	52.2	45.0	45.6
82.5°	822.7	807.1	152.3	99.5	52.2	35.4	34.2	35.4	29.4	24.0	24.0
85°	321.4	438.9	72.0	39.0	16.8	5.4	7.8	8.4	4.8	2.4	3.0
87.5°	6.0	45.0	1.8	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: P452233  
 CATALOG NUMBER: GALN-SA3A-830-U-SLL

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5
2.5°	2435.8	2430.4	2439.4	2401.0	2408.8	2423.2	2430.4	2434.6	2493.9	2480.1	2517.9
5°	1900.3	1894.9	1929.7	1934.5	1952.4	1948.8	1966.2	1970.4	1992.0	1999.8	2052.6
7.5°	1382.2	1405.6	1445.1	1465.5	1496.1	1505.7	1496.7	1518.9	1473.9	1506.3	1515.9
10°	1110.5	1082.4	1065.6	1112.3	1118.3	1162.7	1144.7	1130.3	1156.7	1157.9	1183.1
12.5°	924.7	864.1	823.9	837.1	851.5	870.7	873.7	902.5	921.7	939.6	954.6
15°	725.0	704.0	667.4	649.4	669.8	677.6	696.2	720.2	740.6	746.0	766.3
17.5°	556.5	560.1	554.1	543.3	555.9	561.9	563.1	563.7	569.1	565.5	595.4
20°	447.9	460.5	475.5	477.9	482.1	485.1	479.7	459.3	459.9	472.5	482.1
22.5°	405.4	407.8	424.5	429.9	443.1	437.7	422.2	412.6	411.4	414.4	419.2
25°	371.8	375.4	387.4	395.8	406.0	396.4	385.0	376.0	374.8	377.8	382.6
27.5°	341.8	347.2	358.0	366.4	376.0	367.0	356.2	348.4	347.8	347.2	350.2
30°	317.8	323.8	331.6	341.2	347.8	340.0	329.8	325.6	325.0	323.8	325.0
32.5°	293.8	303.4	311.2	316.0	322.6	316.6	308.8	306.4	302.2	298.6	296.8
35°	266.8	277.0	289.0	295.0	301.6	295.6	290.2	280.0	272.8	272.2	273.4
37.5°	251.3	255.4	265.0	275.2	281.8	278.8	268.6	258.4	256.6	256.6	257.8
40°	237.5	239.3	243.5	256.6	268.6	259.6	247.1	244.1	244.1	243.5	244.1
42.5°	223.7	225.5	225.5	235.7	254.8	240.5	230.9	230.9	230.9	231.5	233.3
45°	211.1	211.7	211.1	218.3	236.3	224.3	217.7	219.5	220.7	221.9	223.1
47.5°	200.3	200.9	200.3	206.3	215.3	210.5	206.9	209.3	211.7	213.5	214.7
50°	190.7	190.1	191.3	194.9	199.1	200.3	197.9	201.5	202.7	205.1	208.1
52.5°	182.3	181.7	182.9	184.7	190.7	190.7	190.7	193.7	196.1	198.5	202.7
55°	172.7	173.3	175.1	177.5	185.3	184.1	184.7	187.1	189.5	193.1	195.5
57.5°	163.7	164.9	167.3	170.9	178.7	178.1	178.7	179.9	182.9	184.7	187.1
60°	153.5	155.9	158.9	161.3	169.1	168.5	171.5	173.9	175.7	175.7	176.9
62.5°	143.3	146.9	149.9	151.7	160.1	160.7	164.9	166.7	167.9	166.7	168.5
65°	133.1	138.5	139.7	142.1	150.5	151.1	155.9	160.1	158.9	157.7	160.7
67.5°	122.9	129.5	128.9	131.9	140.3	141.5	145.7	152.9	150.5	149.3	151.7
70°	111.5	116.3	116.9	118.7	130.1	128.3	134.9	141.5	139.7	140.3	140.3
72.5°	98.9	103.1	103.1	106.7	118.7	115.7	121.1	128.3	128.3	127.7	127.7
75°	84.0	86.3	88.7	94.1	106.7	103.1	106.7	113.3	114.5	113.3	113.3
77.5°	67.8	71.4	72.6	79.8	88.7	88.1	91.7	94.7	97.1	95.9	95.9
80°	48.0	51.6	56.4	64.2	69.6	71.4	73.2	75.6	76.8	76.8	78.0
82.5°	27.0	32.4	36.6	44.4	46.8	55.8	55.2	57.0	55.2	48.6	54.0
85°	6.0	11.4	16.2	20.4	23.4	32.4	34.2	38.4	31.8	29.4	29.4
87.5°	0.0	0.0	0.0	0.0	0.0	4.8	9.6	13.2	11.4	9.6	9.6
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: P452233  
 CATALOG NUMBER: GALN-SA3A-830-U-SLL

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5
2.5°	2549.7	2601.9	2664.8	2773.4	2849.5	2931.7	3014.4	3102.6	3126.0	3149.9
5°	2067.0	2169.5	2225.3	2371.0	2523.9	2718.2	2877.1	3051.0	3123.6	3140.3
7.5°	1565.7	1635.2	1781.5	1929.1	2118.5	2322.4	2565.9	2836.9	2921.5	2956.9
10°	1241.3	1336.0	1464.3	1622.6	1788.7	2008.2	2282.9	2599.5	2719.4	2739.2
12.5°	1056.6	1162.1	1301.8	1469.1	1626.2	1791.7	2068.8	2395.6	2523.9	2566.5
15°	844.9	972.6	1133.9	1310.2	1481.1	1662.2	1942.9	2311.6	2459.7	2509.5
17.5°	663.8	766.9	941.4	1132.7	1335.4	1564.5	1916.5	2351.8	2534.1	2580.3
20°	507.9	581.7	728.6	930.7	1168.1	1467.9	1923.1	2503.5	2721.8	2784.8
22.5°	438.9	476.7	566.1	758.6	1024.2	1384.0	1950.0	2711.6	2974.8	3079.8
25°	397.6	417.4	467.7	593.6	886.9	1302.4	2011.8	2991.6	3328.6	3398.2
27.5°	362.2	376.6	407.8	498.3	762.1	1226.9	2083.8	3302.2	3659.0	3762.8
30°	328.6	347.8	377.2	442.5	682.4	1157.9	2174.3	3554.1	3937.3	4033.8
32.5°	302.8	322.0	349.0	403.6	614.6	1085.4	2228.3	3775.4	4164.5	4246.7
35°	281.8	298.0	326.2	372.4	563.1	1030.2	2217.5	3951.1	4384.6	4468.6
37.5°	266.8	280.6	308.8	343.0	524.1	972.6	2212.1	4183.1	4652.7	4749.8
40°	253.1	267.4	293.2	323.8	485.1	904.9	2215.1	4413.4	4938.1	5035.2
42.5°	242.3	258.4	279.4	318.4	444.9	850.3	2215.1	4613.7	5186.3	5279.9
45°	233.3	250.7	271.0	317.8	413.2	808.9	2200.1	4785.8	5384.2	5464.0
47.5°	225.5	244.7	274.0	307.0	405.4	778.9	2186.9	4923.7	5545.5	5620.5
50°	220.1	242.9	291.4	294.4	407.8	769.9	2250.5	5097.6	5687.6	5752.4
52.5°	215.9	243.5	290.8	275.8	403.6	775.9	2383.0	5369.2	5884.9	5889.7
55°	207.5	242.9	275.8	254.8	386.2	786.1	2553.3	5763.8	6193.7	6197.3
57.5°	199.1	236.3	256.0	236.9	350.8	786.1	2758.4	6137.4	6566.1	6569.1
60°	190.7	245.9	224.9	221.3	304.6	771.7	2974.8	6301.7	6683.1	6713.6
62.5°	182.3	247.7	200.9	207.5	271.0	737.0	3136.1	6120.0	6524.7	6568.5
65°	172.7	199.7	185.3	193.1	253.7	678.8	3085.2	5787.2	6227.3	6279.5
67.5°	161.3	169.1	168.5	178.1	247.7	593.0	2816.5	5366.2	5907.1	5904.1
70°	147.5	151.7	153.5	163.7	236.3	526.5	2347.0	4820.0	5479.6	5546.7
72.5°	133.1	136.7	138.5	147.5	224.9	488.7	1821.7	4067.4	4746.2	4851.1
75°	117.5	119.9	122.3	130.1	212.9	432.9	1297.6	3105.0	3635.1	3800.0
77.5°	101.3	101.3	104.3	112.1	179.3	357.4	870.7	2177.9	2462.7	2631.2
80°	82.2	82.8	81.6	89.9	131.9	244.7	494.7	1454.7	1638.8	1671.2
82.5°	63.0	61.2	61.8	66.0	98.3	166.7	263.8	903.7	921.1	903.1
85°	39.6	39.6	38.4	43.2	63.0	86.9	143.9	553.5	432.3	411.4
87.5°	16.2	13.2	15.0	17.4	30.0	35.4	56.4	113.9	43.8	40.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)