

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: P453480

Luminaire Tested: **GALN-SA4C-730-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453480  
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-730-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 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: 21832.9 lumens  
Efficiency: N/A  
Efficacy: 102.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4

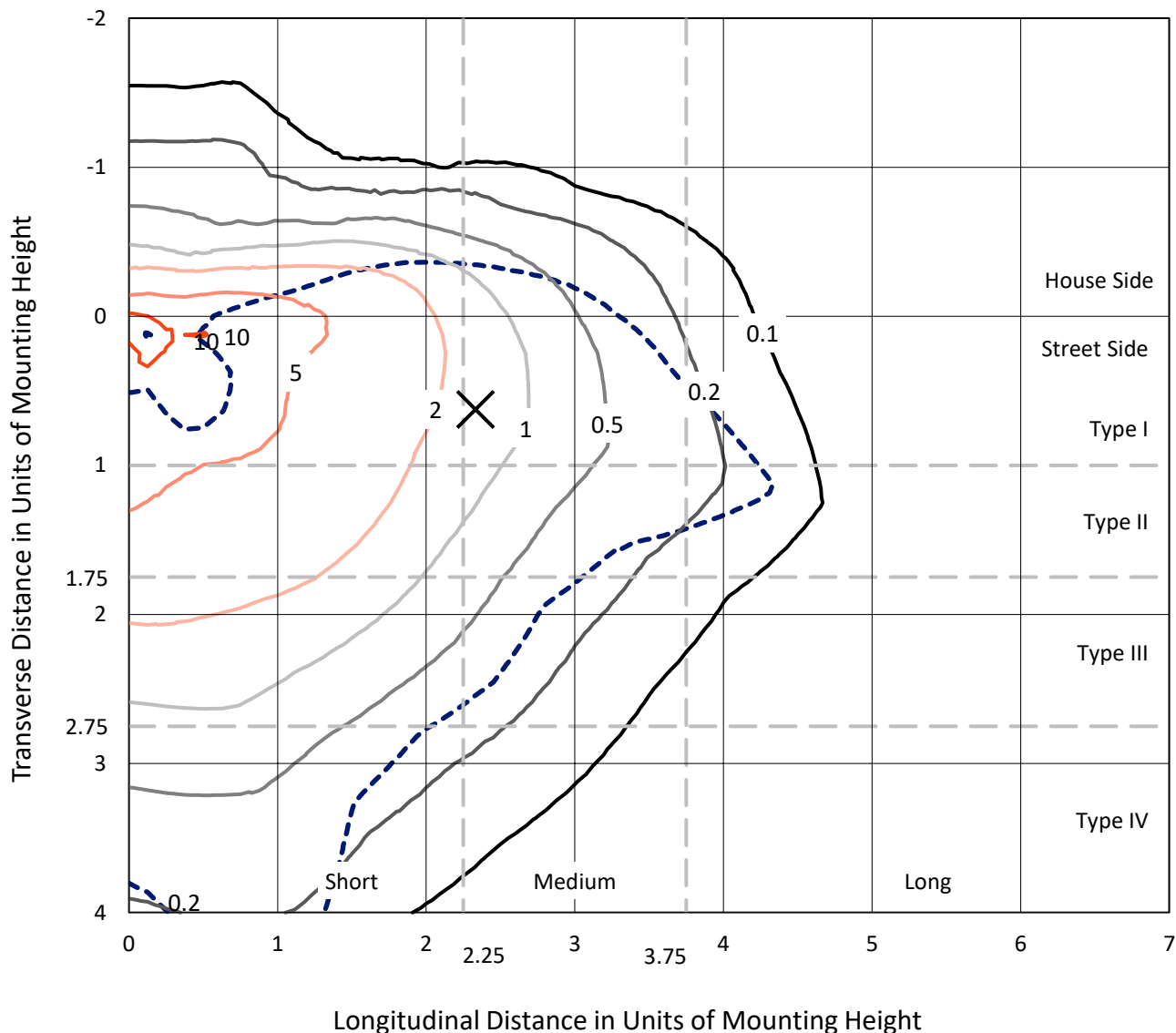
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P453480  
 CATALOG NUMBER: GALN-SA4C-730-U-SLL

### Iso-Footcandle Lines of Horizontal Illumination

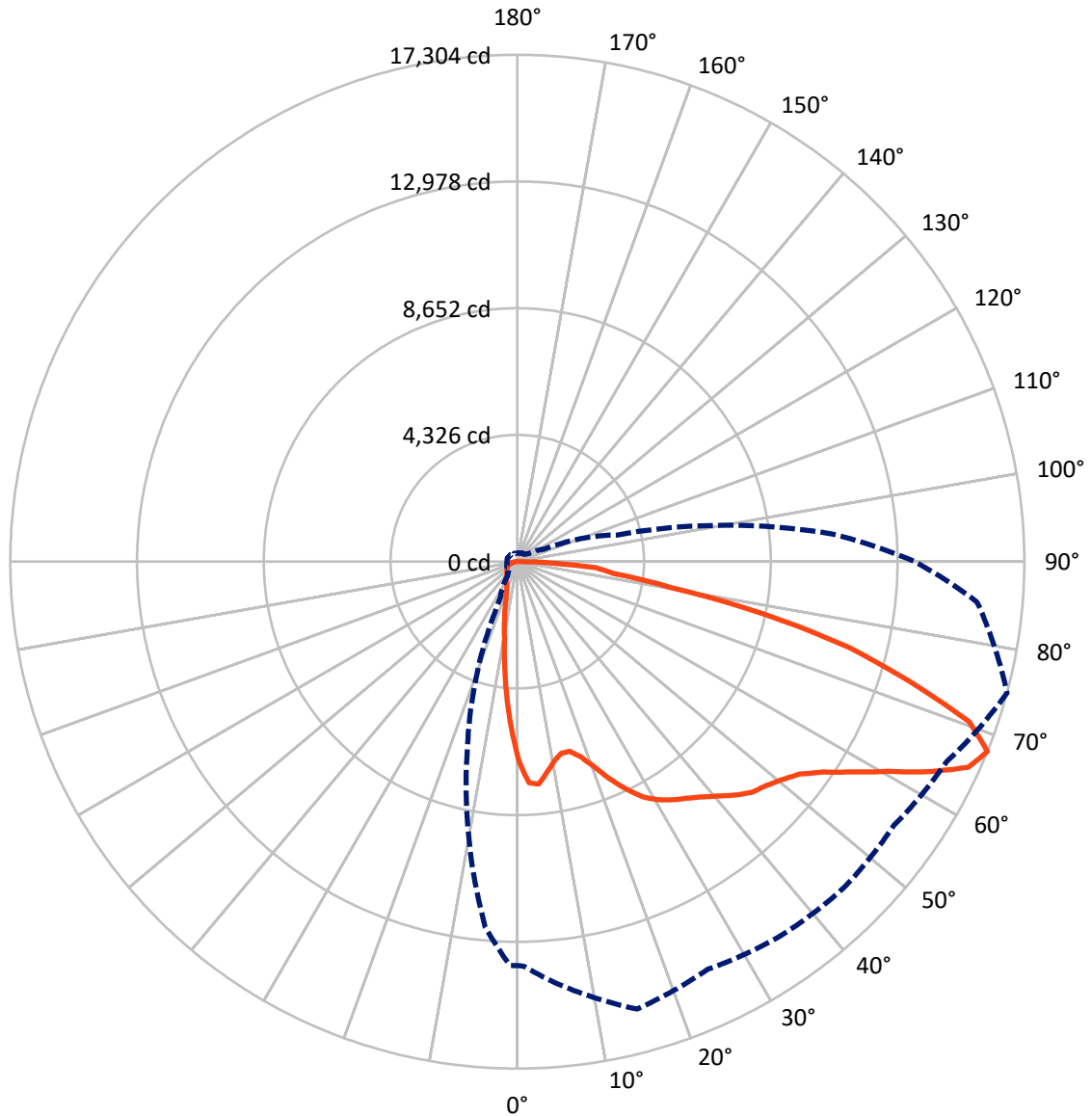
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 fc  
 Type III - Medium - N/A

REPORT NUMBER: P453480  
CATALOG NUMBER: GALN-SA4C-730-U-SLL

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P453480

CATALOG NUMBER: GALN-SA4C-730-U-SLL

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3690.2	0.0	3690.2
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	18142.7	0.0	18142.7
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	21832.9	0.0	21832.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	517.4	2.4
10°-20°	1079.0	4.9
20°-30°	1552.7	7.1
30°-40°	2236.3	10.2
40°-50°	3141.3	14.4
50°-60°	4381.1	20.1
60°-70°	5208.8	23.9
70°-80°	3067.7	14.1
80°-90°	648.7	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°	21832.9	100.0
0°-180°	21832.9	100.0

**Coefficient of Utilization**



REPORT NUMBER: P453480

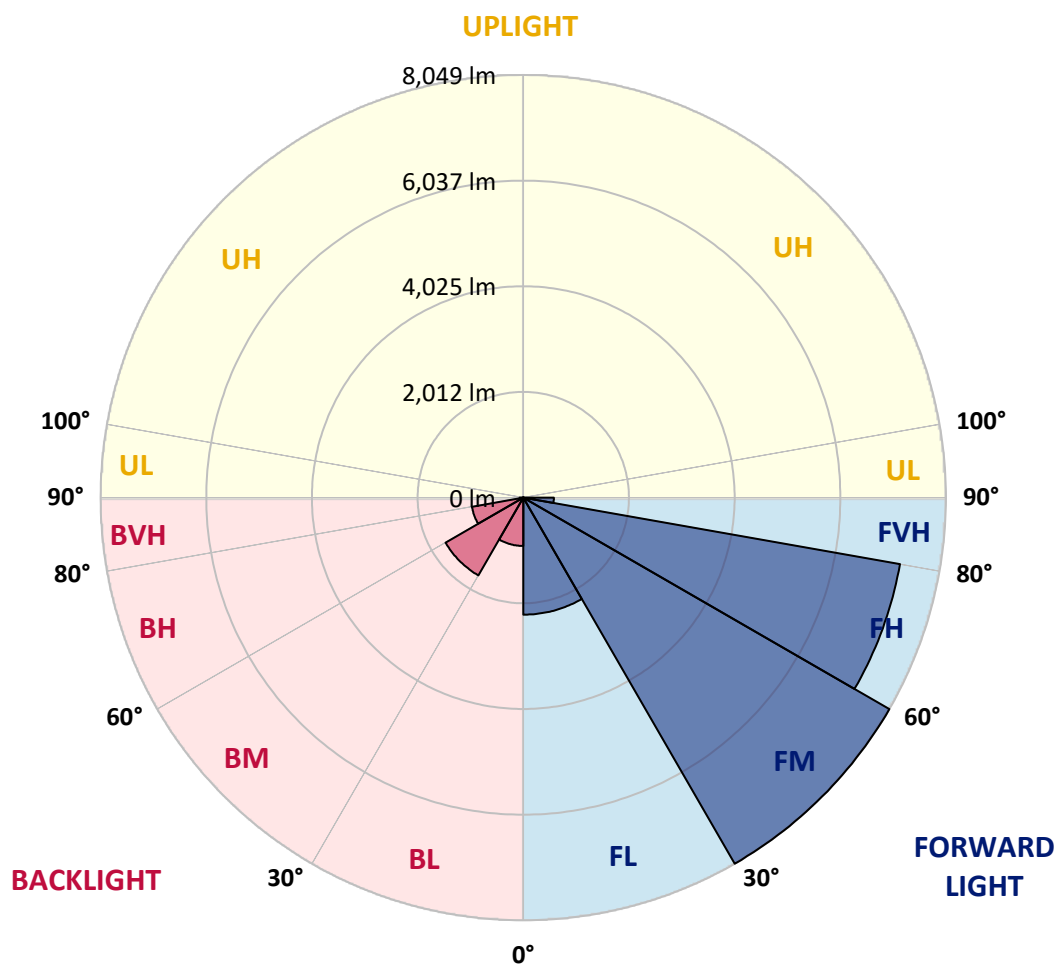
CATALOG NUMBER: GALN-SA4C-730-U-SLL

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2228.6	10.2			
FM	(30°-60°)	8049.0	36.9			
FH	(60°-80°)	7283.6	33.4			G3/7500
FVH	(80°-90°)	581.6	2.7			G4/750
BL	(0°-30°)	920.5	4.2	B2/1000		
BM	(30°-60°)	1709.7	7.8	B2/2500		
BH	(60°-80°)	993.0	4.5	B2/1000		G2/1000
BVH	(80°-90°)	67.1	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: P453480

CATALOG NUMBER: GALN-SA4C-730-U-SLL

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6821.1	6821.1	6821.1	6821.1	6821.1	6821.1	6821.1	6821.1	6821.1	6821.1	6821.1
2.5°	7354.6	7364.4	7427.4	7610.8	7736.8	7783.0	7815.2	7755.0	7696.2	7553.4	7337.8
5°	7332.2	7389.6	7553.4	7965.0	8289.8	8429.8	8471.8	8291.2	7993.0	7626.2	7185.2
7.5°	6903.8	6980.8	7232.8	7923.0	8495.6	8823.2	8779.8	8453.6	7916.0	7262.2	6646.1
10°	6395.5	6480.9	6784.7	7619.2	8357.0	8807.8	8807.8	8410.2	7696.2	6919.2	6209.3
12.5°	5992.3	6081.9	6429.1	7307.0	8068.6	8495.6	8567.0	8225.4	7538.0	6702.1	5922.3
15°	5859.3	5946.1	6319.9	7118.0	7763.4	8023.8	8047.6	7935.6	7461.0	6717.5	5909.7
17.5°	6024.5	6136.5	6514.5	7174.0	7483.4	7498.8	7517.0	7605.2	7469.4	6999.0	6164.5
20°	6501.9	6622.3	7017.2	7354.6	7238.4	7078.8	7088.6	7315.4	7568.8	7463.8	6773.5
22.5°	7190.8	7295.8	7700.4	7672.4	7134.8	6805.7	6737.1	7053.6	7715.8	8043.4	7421.8
25°	7934.2	8057.4	8522.2	8144.2	7164.2	6643.3	6599.9	6899.5	7868.4	8585.2	8170.8
27.5°	8785.4	8905.9	9272.7	8620.2	7318.2	6630.7	6578.9	6885.5	8005.6	9086.5	8886.3
30°	9418.3	9528.9	9778.1	9020.7	7507.2	6714.7	6650.3	6996.2	8123.2	9429.5	9583.5
32.5°	9915.3	10030.1	10165.9	9269.9	7756.4	6867.3	6748.3	7197.8	8277.2	9691.3	10100.1
35°	10433.3	10569.1	10559.3	9491.1	7988.8	7043.8	6927.6	7489.0	8519.4	9919.5	10755.3
37.5°	11090.0	11144.6	11074.6	9689.9	8267.4	7361.6	7297.2	7921.6	8863.8	10195.3	11521.2
40°	11756.4	11865.6	11505.8	9930.7	8606.2	7959.4	7952.4	8561.4	9272.7	10518.7	12263.2
42.5°	12327.6	12420.0	11909.0	10140.7	9016.5	8688.8	8742.0	9419.7	9808.9	10894.0	12859.7
45°	12757.4	12840.1	12281.4	10343.7	9556.9	9531.7	9845.3	10339.5	10485.1	11231.4	13209.7
47.5°	13122.9	13202.7	12540.4	10651.7	10224.7	10538.3	11084.4	11298.6	11063.4	11424.6	13601.7
50°	13430.9	13454.7	12718.2	11018.6	11053.6	11771.8	12301.0	12439.6	11634.6	11701.8	13941.9
52.5°	13751.5	13720.7	13024.9	11480.6	11949.6	12942.3	13327.3	13471.5	12182.0	12043.4	14437.5
55°	14469.7	14499.1	13712.3	12063.0	12855.5	14091.7	14598.5	14459.9	12788.2	12672.0	15067.6
57.5°	15337.8	15312.6	14679.7	12974.5	13778.1	15161.4	15539.4	15316.8	13597.5	13535.9	15706.0
60°	15675.2	15708.8	15489.0	13954.5	14688.1	16098.0	16484.4	16138.6	14567.7	14539.7	16187.6
62.5°	15336.4	15525.4	15673.8	14826.8	15463.8	16786.9	17170.5	16775.7	15580.0	15783.0	16525.0
65°	14661.5	14702.1	15207.6	15566.0	15837.6	16900.3	17100.5	16890.5	16425.6	16915.7	16509.6
67.5°	13785.1	13820.1	14412.3	15808.2	15356.0	15612.2	15752.2	15690.6	16163.8	17303.5	15749.4
70°	12950.7	12922.7	13548.5	15190.8	13367.9	12978.7	13094.9	12901.7	13947.5	16355.6	14258.3
72.5°	11326.6	11427.4	12099.4	13474.3	10584.5	9951.7	10205.1	9705.3	10727.3	14007.7	11573.0
75°	8872.2	8896.1	10017.5	11308.4	7984.6	6986.4	7329.4	7120.8	8217.0	11685.0	7991.6
77.5°	6143.5	6090.3	7295.8	8637.0	5694.1	5114.5	5120.1	5020.7	5737.5	8603.4	5429.5
80°	3902.0	3820.8	4567.0	5335.7	3913.2	4186.2	4049.0	4044.8	3735.4	5307.7	3283.2
82.5°	2108.5	2198.1	2885.5	3344.8	2807.1	3235.6	2965.4	2878.5	2563.5	3322.4	2100.1
85°	960.4	1044.5	1538.7	2275.1	2132.3	2156.1	1440.7	1699.7	2121.1	2697.9	1121.5
87.5°	93.8	120.4	317.8	1073.9	728.0	574.0	214.2	413.0	533.4	959.0	89.6
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: P453480

CATALOG NUMBER: GALN-SA4C-730-U-SLL

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6821.1	6821.1	6821.1	6821.1	6821.1	6821.1	6821.1	6821.1	6821.1	6821.1	6821.1
2.5°	7249.6	7176.8	6929.0	6724.5	6507.5	6342.3	6126.7	5982.5	5883.1	5733.3	5715.1
5°	6916.4	6738.5	6307.3	5867.7	5488.3	5202.7	4912.8	4646.8	4490.0	4441.0	4378.0
7.5°	6354.9	6055.3	5500.9	4996.9	4561.4	4135.8	3808.2	3575.8	3420.4	3329.4	3220.2
10°	5892.9	5545.7	4870.8	4253.4	3895.0	3630.4	3342.0	3092.8	2900.9	2737.1	2647.5
12.5°	5582.1	5190.1	4431.2	3930.0	3652.8	3371.4	3034.0	2753.9	2471.1	2284.9	2205.1
15°	5488.3	5073.9	4295.4	3769.0	3371.4	3003.2	2625.1	2259.7	1979.7	1803.3	1744.5
17.5°	5717.9	5216.7	4294.0	3554.8	3041.0	2601.3	2116.9	1773.9	1486.9	1355.3	1313.3
20°	6146.3	5491.1	4306.6	3343.4	2682.5	2063.7	1540.1	1258.7	1121.5	1065.5	1044.5
22.5°	6744.1	5909.7	4344.4	3134.8	2290.5	1584.9	1153.7	1010.9	961.8	952.0	947.8
25°	7480.6	6427.7	4471.8	2947.1	1960.1	1209.7	964.6	900.2	872.2	862.4	861.0
27.5°	8158.2	7097.0	4625.8	2786.1	1640.9	1043.1	872.2	817.6	789.6	788.2	791.0
30°	8770.0	7657.0	4754.6	2605.5	1398.7	926.8	812.0	757.4	730.8	729.4	737.8
32.5°	9299.3	8117.6	4849.8	2427.7	1264.3	855.4	757.4	698.6	676.2	672.0	676.2
35°	9864.9	8576.8	4806.4	2289.1	1187.3	796.6	716.8	659.4	632.8	620.2	620.2
37.5°	10510.3	9050.1	4732.2	2174.3	1152.3	747.6	681.8	625.8	599.2	586.6	585.2
40°	11214.6	9523.3	4630.0	2072.1	1117.3	718.2	658.0	599.2	567.0	554.4	551.6
42.5°	11836.2	9927.9	4546.0	2004.9	1059.9	723.8	637.0	579.6	539.0	522.2	520.8
45°	12376.6	10335.3	4530.6	1965.7	1012.3	715.4	631.4	564.2	516.6	498.4	495.6
47.5°	12799.4	10759.5	4618.8	1943.3	960.4	670.6	667.8	554.4	497.0	477.4	474.6
50°	13314.7	11361.6	4820.4	1897.1	912.8	628.6	705.6	553.0	481.6	456.4	449.4
52.5°	14000.7	12145.6	5093.5	1814.5	844.2	589.4	673.4	553.0	463.4	438.2	429.8
55°	15038.2	13145.3	5360.9	1698.3	747.6	537.6	607.6	536.2	436.8	414.4	408.8
57.5°	15725.6	13876.1	5531.7	1537.3	627.2	499.8	523.6	509.6	410.2	386.4	386.4
60°	15760.6	14072.1	5450.5	1334.3	551.6	464.8	455.0	513.8	386.4	361.2	358.4
62.5°	15357.4	13591.9	5027.7	1152.3	511.0	427.0	411.6	450.8	362.6	337.4	333.2
65°	14727.3	12366.8	4294.0	1065.5	488.6	393.4	371.0	369.6	337.4	313.6	308.0
67.5°	13569.5	10807.1	3528.2	1015.1	477.4	355.6	334.6	327.6	308.0	288.4	285.6
70°	11862.8	9051.5	2829.5	994.1	471.8	316.4	299.6	291.2	274.4	259.0	257.6
72.5°	9229.3	7342.0	2335.3	980.0	469.0	280.0	261.8	250.6	240.8	226.8	226.8
75°	6629.3	5401.5	1782.3	883.4	434.0	240.8	221.2	214.2	200.2	189.0	191.8
77.5°	4179.2	3637.4	1173.3	649.6	336.0	193.2	176.4	172.2	161.0	145.6	155.4
80°	2822.5	2557.9	684.6	408.8	211.4	141.4	135.8	134.4	121.8	105.0	106.4
82.5°	1920.9	1884.5	355.6	232.4	121.8	82.6	79.8	82.6	68.6	56.0	56.0
85°	750.4	1024.9	168.0	91.0	39.2	12.6	18.2	19.6	11.2	5.6	7.0
87.5°	14.0	105.0	4.2	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: P453480  
 CATALOG NUMBER: GALN-SA4C-730-U-SLL

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	6821.1	6821.1	6821.1	6821.1	6821.1	6821.1	6821.1	6821.1	6821.1	6821.1	6821.1
2.5°	5687.1	5674.5	5695.5	5605.9	5624.1	5657.7	5674.5	5684.3	5822.9	5790.7	5878.9
5°	4436.8	4424.2	4505.4	4516.6	4558.6	4550.2	4590.8	4600.6	4651.0	4669.2	4792.4
7.5°	3227.2	3281.8	3374.2	3421.8	3493.2	3515.6	3494.6	3546.4	3441.4	3517.0	3539.4
10°	2592.9	2527.1	2487.9	2597.1	2611.1	2714.7	2672.7	2639.1	2700.7	2703.5	2762.3
12.5°	2158.9	2017.5	1923.7	1954.5	1988.1	2032.9	2039.9	2107.1	2151.9	2193.9	2228.9
15°	1692.7	1643.7	1558.3	1516.3	1563.9	1582.1	1625.5	1681.5	1729.1	1741.7	1789.3
17.5°	1299.3	1307.7	1293.7	1268.5	1297.9	1311.9	1314.7	1316.1	1328.7	1320.3	1390.3
20°	1045.9	1075.3	1110.3	1115.9	1125.7	1132.7	1120.1	1072.5	1073.9	1103.3	1125.7
22.5°	946.4	952.0	991.3	1003.9	1034.7	1022.1	985.6	963.2	960.4	967.4	978.6
25°	868.0	876.4	904.4	924.0	947.8	925.4	898.8	877.8	875.0	882.0	893.2
27.5°	798.0	810.6	835.8	855.4	877.8	856.8	831.6	813.4	812.0	810.6	817.6
30°	742.0	756.0	774.2	796.6	812.0	793.8	770.0	760.2	758.8	756.0	758.8
32.5°	686.0	708.4	726.6	737.8	753.2	739.2	721.0	715.4	705.6	697.2	693.0
35°	623.0	646.8	674.8	688.8	704.2	690.2	677.6	653.8	637.0	635.6	638.4
37.5°	586.6	596.4	618.8	642.6	658.0	651.0	627.2	603.4	599.2	599.2	602.0
40°	554.4	558.6	568.4	599.2	627.2	606.2	576.8	569.8	569.8	568.4	569.8
42.5°	522.2	526.4	526.4	550.2	595.0	561.4	539.0	539.0	539.0	540.4	544.6
45°	492.8	494.2	492.8	509.6	551.6	523.6	508.2	512.4	515.2	518.0	520.8
47.5°	467.6	469.0	467.6	481.6	502.6	491.4	483.0	488.6	494.2	498.4	501.2
50°	445.2	443.8	446.6	455.0	464.8	467.6	462.0	470.4	473.2	478.8	485.8
52.5°	425.6	424.2	427.0	431.2	445.2	445.2	445.2	452.2	457.8	463.4	473.2
55°	403.2	404.6	408.8	414.4	432.6	429.8	431.2	436.8	442.4	450.8	456.4
57.5°	382.2	385.0	390.6	399.0	417.2	415.8	417.2	420.0	427.0	431.2	436.8
60°	358.4	364.0	371.0	376.6	394.8	393.4	400.4	406.0	410.2	410.2	413.0
62.5°	334.6	343.0	350.0	354.2	373.8	375.2	385.0	389.2	392.0	389.2	393.4
65°	310.8	323.4	326.2	331.8	351.4	352.8	364.0	373.8	371.0	368.2	375.2
67.5°	287.0	302.4	301.0	308.0	327.6	330.4	340.2	357.0	351.4	348.6	354.2
70°	260.4	271.6	273.0	277.2	303.8	299.6	315.0	330.4	326.2	327.6	327.6
72.5°	231.0	240.8	240.8	249.2	277.2	270.2	282.8	299.6	299.6	298.2	298.2
75°	196.0	201.6	207.2	219.8	249.2	240.8	249.2	264.6	267.4	264.6	264.6
77.5°	158.2	166.6	169.4	186.2	207.2	205.8	214.2	221.2	226.8	224.0	224.0
80°	112.0	120.4	131.6	149.8	162.4	166.6	170.8	176.4	179.2	179.2	182.0
82.5°	63.0	75.6	85.4	103.6	109.2	130.2	128.8	133.0	128.8	113.4	126.0
85°	14.0	26.6	37.8	47.6	54.6	75.6	79.8	89.6	74.2	68.6	68.6
87.5°	0.0	0.0	0.0	0.0	0.0	11.2	22.4	30.8	26.6	22.4	22.4
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: P453480  
 CATALOG NUMBER: GALN-SA4C-730-U-SLL

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6821.1	6821.1	6821.1	6821.1	6821.1	6821.1	6821.1	6821.1	6821.1	6821.1
2.5°	5953.1	6074.9	6221.9	6475.3	6653.1	6844.9	7038.2	7244.0	7298.6	7354.6
5°	4826.0	5065.5	5195.7	5535.9	5892.9	6346.5	6717.5	7123.6	7293.0	7332.2
7.5°	3655.6	3818.0	4159.6	4504.0	4946.5	5422.5	5990.9	6623.7	6821.1	6903.8
10°	2898.1	3119.4	3419.0	3788.6	4176.4	4688.8	5330.1	6069.3	6349.3	6395.5
12.5°	2466.9	2713.3	3039.6	3430.2	3797.0	4183.4	4830.2	5593.3	5892.9	5992.3
15°	1972.7	2270.9	2647.5	3059.2	3458.2	3881.0	4536.2	5397.3	5743.1	5859.3
17.5°	1549.9	1790.7	2198.1	2644.7	3118.0	3652.8	4474.6	5491.1	5916.7	6024.5
20°	1185.9	1358.1	1701.1	2172.9	2727.3	3427.4	4490.0	5845.3	6354.9	6501.9
22.5°	1024.9	1113.1	1321.7	1771.1	2391.3	3231.4	4553.0	6331.1	6945.8	7190.8
25°	928.2	974.4	1092.1	1386.1	2070.7	3041.0	4697.2	6985.0	7771.8	7934.2
27.5°	845.6	879.2	952.0	1163.5	1779.5	2864.5	4865.2	7710.2	8543.2	8785.4
30°	767.2	812.0	880.6	1033.3	1593.3	2703.5	5076.7	8298.2	9192.9	9418.3
32.5°	707.0	751.8	814.8	942.2	1435.1	2534.1	5202.7	8814.8	9723.5	9915.3
35°	658.0	695.8	761.6	869.4	1314.7	2405.3	5177.5	9225.1	10237.3	10433.3
37.5°	623.0	655.2	721.0	800.8	1223.7	2270.9	5164.9	9766.9	10863.2	11090.0
40°	590.8	624.4	684.6	756.0	1132.7	2112.7	5171.9	10304.5	11529.6	11756.4
42.5°	565.6	603.4	652.4	743.4	1038.9	1985.3	5171.9	10772.1	12109.2	12327.6
45°	544.6	585.2	632.8	742.0	964.6	1888.7	5136.9	11174.0	12571.2	12757.4
47.5°	526.4	571.2	639.8	716.8	946.4	1818.7	5106.1	11496.0	12947.9	13122.9
50°	513.8	567.0	680.4	687.4	952.0	1797.7	5254.5	11902.0	13279.7	13430.9
52.5°	504.0	568.4	679.0	644.0	942.2	1811.7	5563.9	12536.2	13740.3	13751.5
55°	484.4	567.0	644.0	595.0	901.6	1835.5	5961.5	13457.5	14461.3	14469.7
57.5°	464.8	551.6	597.8	553.0	819.0	1835.5	6440.3	14329.7	15330.8	15337.8
60°	445.2	574.0	525.0	516.6	711.2	1801.9	6945.8	14713.3	15603.8	15675.2
62.5°	425.6	578.2	469.0	484.4	632.8	1720.7	7322.4	14289.1	15234.2	15336.4
65°	403.2	466.2	432.6	450.8	592.2	1584.9	7203.4	13512.1	14539.7	14661.5
67.5°	376.6	394.8	393.4	415.8	578.2	1384.7	6576.1	12529.2	13792.1	13785.1
70°	344.4	354.2	358.4	382.2	551.6	1229.3	5479.9	11253.8	12793.8	12950.7
72.5°	310.8	319.2	323.4	344.4	525.0	1141.1	4253.4	9496.7	11081.6	11326.6
75°	274.4	280.0	285.6	303.8	497.0	1010.9	3029.8	7249.6	8487.2	8872.2
77.5°	236.6	236.6	243.6	261.8	418.6	834.4	2032.9	5085.1	5750.1	6143.5
80°	191.8	193.2	190.4	210.0	308.0	571.2	1155.1	3396.6	3826.4	3902.0
82.5°	147.0	142.8	144.2	154.0	229.6	389.2	616.0	2109.9	2150.5	2108.5
85°	92.4	92.4	89.6	100.8	147.0	203.0	336.0	1292.3	1009.5	960.4
87.5°	37.8	30.8	35.0	40.6	70.0	82.6	131.6	266.0	102.2	93.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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