

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: P529355

Luminaire Tested: **GALN-SA4C-730-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529355  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4C-730-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14003 lumens  
Efficiency: N/A  
Efficacy: 65.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G1

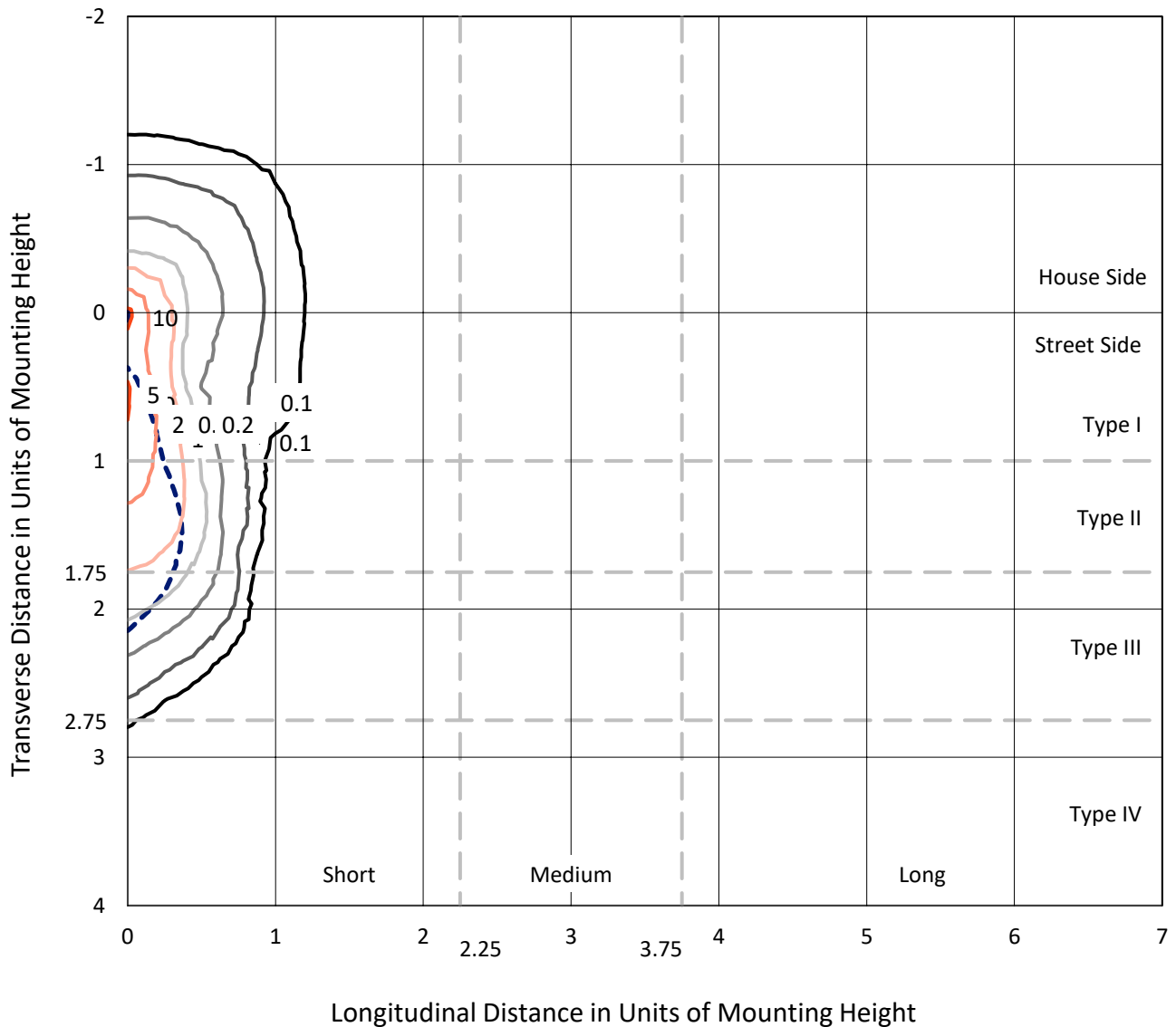
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

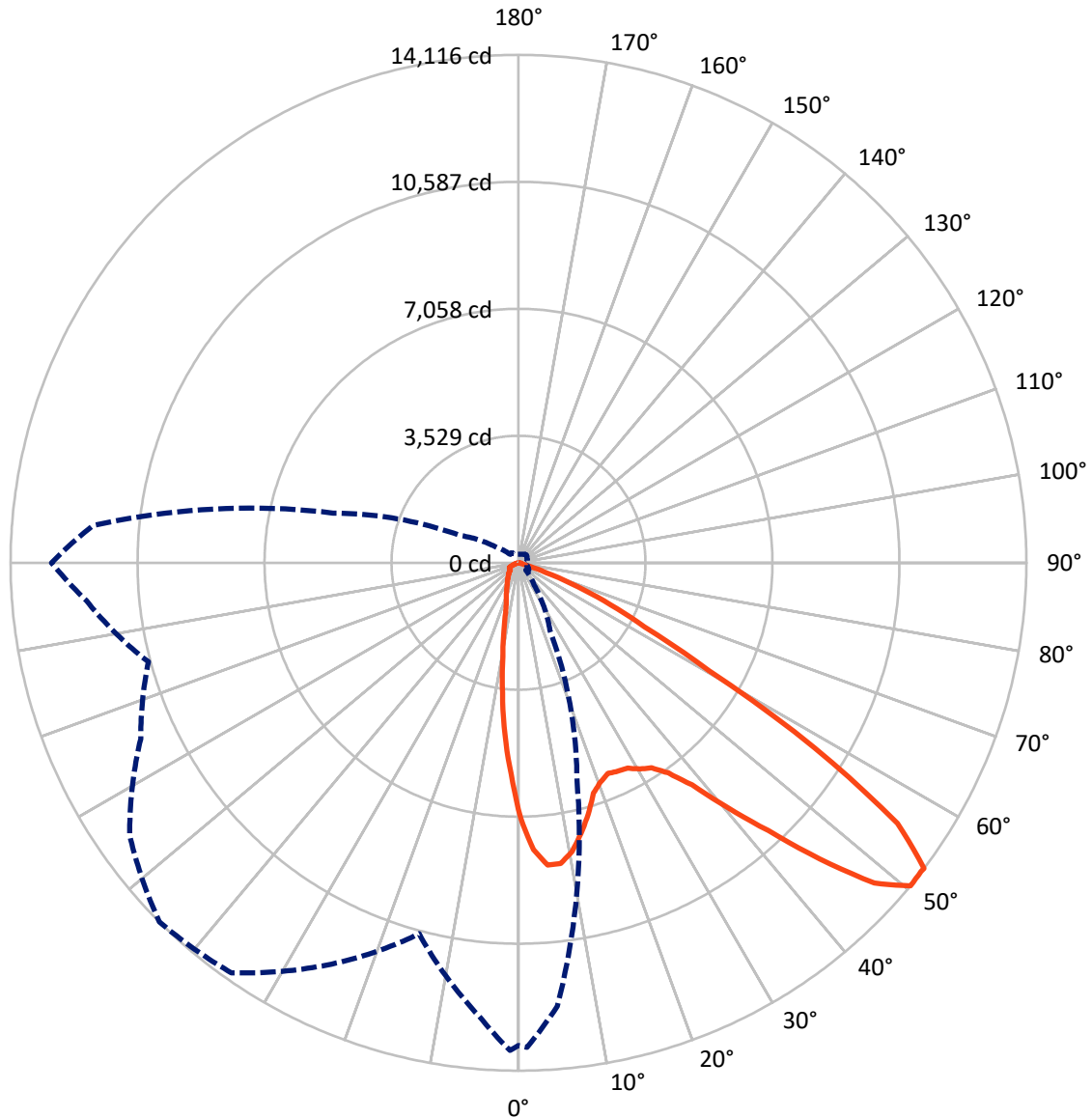
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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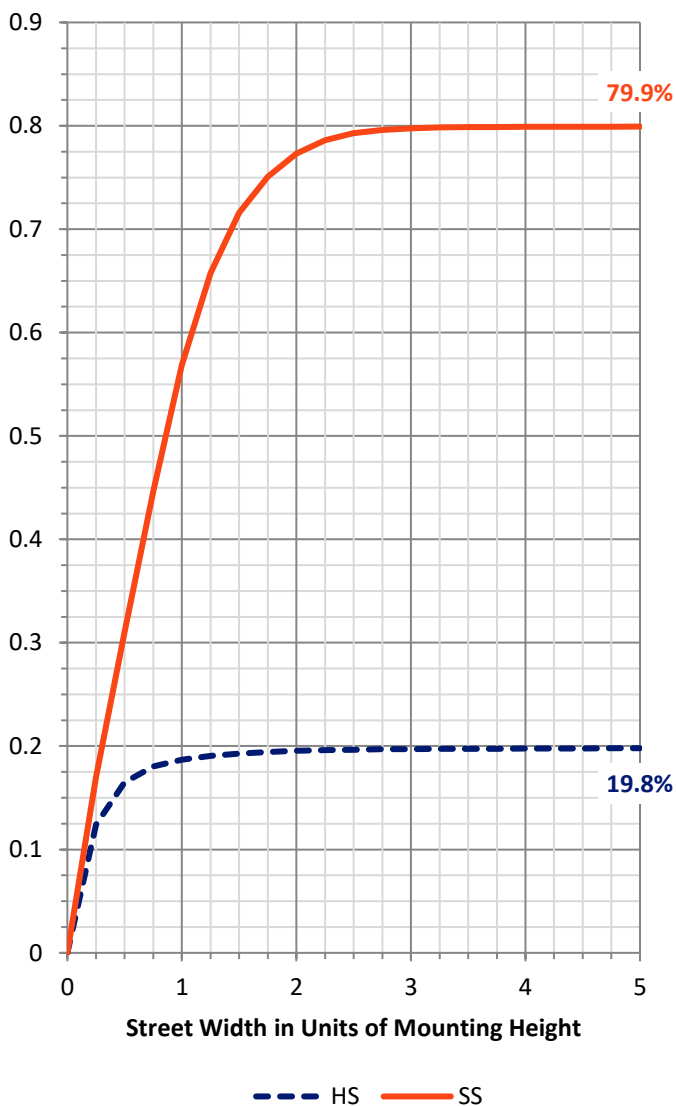
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2804.8	0.0	2804.8
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	11198.2	0.0	11198.2
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	14003.0	0.0	14003.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	517.6	3.7
10°-20°	1028.7	7.3
20°-30°	1545.5	11.0
30°-40°	2319.7	16.6
40°-50°	3260.2	23.3
50°-60°	3516.7	25.1
60°-70°	1632.8	11.7
70°-80°	153.6	1.1
80°-90°	28.3	0.2
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°	14003.0	100.0
0°-180°	14003.0	100.0

**Coefficient of Utilization**

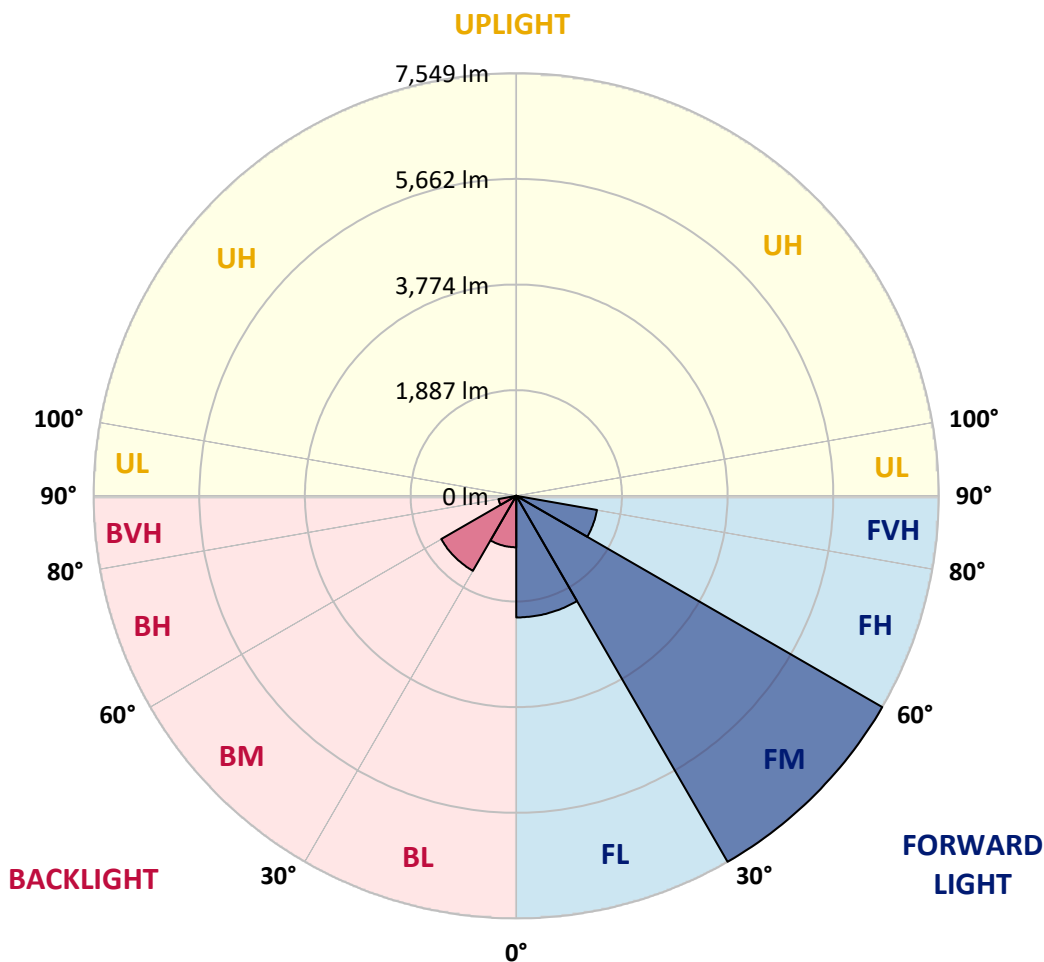


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2172.4	15.5			
FM (30°-60°)	7548.7	53.9			
FH (60°-80°)	1464.3	10.5			G1/1800
FVH (80°-90°)	12.8	0.1			G1/100
BL (0°-30°)	919.3	6.6	B2/1000		
BM (30°-60°)	1547.8	11.1	B2/2500		
BH (60°-80°)	322.1	2.3	B1/500		G1/500
BVH (80°-90°)	15.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7101.3	7101.3	7101.3	7101.3	7101.3	7101.3	7101.3	7101.3	7101.3	7101.3	7101.3
2.5°	7381.9	7268.0	7123.5	7004.0	6826.2	6467.8	6370.6	6253.9	6156.7	6026.1	5842.7
5°	6712.3	6676.2	6609.5	6159.4	5834.4	5401.0	5045.4	4895.3	4698.1	4536.9	4420.2
7.5°	6201.1	6056.7	5845.5	5392.6	4873.1	4409.1	4014.6	3784.0	3522.9	3434.0	3275.6
10°	5653.8	5687.1	5376.0	4739.7	4111.9	3736.8	3492.3	3270.0	3033.9	2878.3	2653.3
12.5°	5478.8	5370.4	5131.5	4345.2	3809.0	3459.0	3161.7	2886.6	2636.6	2386.5	2169.8
15°	5592.7	5426.0	5092.6	4261.9	3575.6	3139.5	2767.2	2394.9	2164.3	1844.8	1619.7
17.5°	6001.1	5867.7	5420.4	4350.8	3456.2	2833.8	2281.0	1897.6	1544.7	1255.8	1141.9
20°	6681.8	6492.8	5931.6	4464.7	3278.4	2464.3	1850.3	1378.0	1044.6	922.4	858.5
22.5°	7348.6	7245.8	6537.3	4684.2	3120.0	2136.5	1389.1	927.9	780.7	758.5	716.8
25°	8618.2	8309.8	7462.5	5081.5	2997.8	1828.1	1047.4	747.4	661.2	644.6	650.1
27.5°	9373.9	9115.5	8318.2	5345.4	2861.6	1592.0	886.3	686.2	627.9	591.8	577.9
30°	10099.1	9799.0	8743.3	5501.0	2569.9	1341.9	786.3	658.5	644.6	591.8	575.1
32.5°	10657.5	10363.0	9357.3	5734.4	2450.4	1180.8	647.3	514.0	477.9	472.3	522.3
35°	11513.2	11199.3	9882.3	5862.2	2358.8	1097.4	561.2	458.4	416.7	400.1	402.9
37.5°	12310.6	12096.6	10368.5	5912.2	2261.5	1072.4	502.9	411.2	375.1	364.0	361.2
40°	12977.4	12499.5	10829.7	5965.0	2219.8	1025.2	466.8	375.1	350.1	333.4	333.4
42.5°	13283.0	12796.8	11346.5	5934.4	2208.7	950.2	466.8	344.5	325.1	308.4	305.6
45°	13216.3	13019.0	11577.1	5920.5	2208.7	875.2	425.1	336.2	308.4	286.2	280.6
47.5°	13388.5	13130.2	11866.0	5978.9	2164.3	822.4	358.4	352.8	291.7	263.9	258.4
50°	13419.1	13469.1	12368.9	6281.7	2067.0	755.7	280.6	347.3	280.6	238.9	233.4
52°	13619.1	13308.0	12521.7	6442.8	1964.2	705.7	236.2	297.3	269.5	222.3	216.7
52.5°	13344.1	13546.9	12557.8	6501.2	1975.4	672.3	227.8	291.7	263.9	222.3	208.4
55°	13035.7	13230.2	12410.6	6626.2	1811.4	527.9	177.8	211.1	238.9	194.5	186.1
57.5°	11329.8	11527.1	10785.3	6067.8	1475.3	372.3	147.2	158.4	211.1	180.6	172.3
60°	10071.3	9929.6	9051.6	5062.0	1047.4	208.4	116.7	122.2	230.6	166.7	163.9
62.5°	9204.4	8901.6	7565.3	3909.0	639.0	138.9	91.7	94.5	177.8	155.6	155.6
65°	6809.6	6470.6	5025.9	2364.3	313.9	97.2	69.5	75.0	111.1	133.4	133.4
67.5°	3886.8	3756.2	2428.2	1066.9	130.6	61.1	52.8	58.3	86.1	108.4	102.8
70°	1786.4	1603.1	933.5	225.0	61.1	41.7	41.7	47.2	69.5	80.6	75.0
72.5°	522.3	494.5	227.8	36.1	25.0	25.0	27.8	36.1	52.8	61.1	55.6
75°	38.9	25.0	16.7	11.1	11.1	16.7	22.2	36.1	52.8	58.3	47.2
77.5°	2.8	5.6	2.8	2.8	8.3	16.7	25.0	44.5	69.5	72.2	52.8
80°	2.8	2.8	0.0	2.8	8.3	16.7	27.8	50.0	77.8	83.3	44.5
82.5°	0.0	0.0	0.0	2.8	11.1	22.2	33.3	52.8	72.2	88.9	47.2
85°	0.0	0.0	0.0	2.8	16.7	30.6	38.9	13.9	8.3	0.0	0.0
87.5°	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7101.3	7101.3	7101.3	7101.3	7101.3	7101.3	7101.3	7101.3	7101.3	7101.3	7101.3
2.5°	5973.3	5901.1	5873.3	5898.3	5890.0	5881.6	6034.4	6001.1	5995.5	6045.5	6034.4
5°	4484.1	4356.3	4706.4	4564.7	4712.0	4800.9	4817.5	4825.9	4928.7	4820.3	4962.0
7.5°	3195.0	3228.4	3225.6	3320.0	3489.5	3639.5	3728.5	3659.0	3653.4	3639.5	3578.4
10°	2553.2	2494.9	2483.8	2461.6	2514.3	2642.1	2750.5	2664.4	2603.2	2686.6	2661.6
12.5°	2086.5	2005.9	1961.5	1872.6	1875.3	1961.5	1961.5	1961.5	2022.6	2069.8	2105.9
15°	1600.3	1533.6	1533.6	1444.7	1425.3	1428.0	1472.5	1478.0	1575.3	1603.1	1617.0
17.5°	1119.6	1083.5	1125.2	1161.3	1139.1	1144.7	1161.3	1166.9	1180.8	1169.7	1197.4
20°	861.3	855.7	866.8	930.7	978.0	1005.7	986.3	958.5	941.8	902.9	902.9
22.5°	730.7	741.8	761.2	814.0	875.2	891.8	869.6	805.7	755.7	750.1	752.9
25°	650.1	661.2	691.8	725.1	758.5	786.3	764.0	716.8	689.0	664.0	664.0
27.5°	600.1	605.7	622.3	647.3	675.1	697.3	689.0	664.0	633.4	622.3	597.3
30°	561.2	569.5	589.0	594.6	619.6	630.7	616.8	611.2	591.8	577.9	569.5
32.5°	541.8	539.0	552.9	558.4	561.2	569.5	552.9	561.2	558.4	536.2	527.9
35°	408.4	430.6	466.8	497.3	505.6	516.8	514.0	502.9	472.3	447.3	416.7
37.5°	366.7	380.6	400.1	425.1	458.4	472.3	466.8	439.0	402.9	386.2	380.6
40°	339.0	347.3	364.0	380.6	414.0	439.0	419.5	394.5	366.7	352.8	344.5
42.5°	313.9	316.7	325.1	341.7	366.7	405.6	372.3	339.0	327.8	319.5	313.9
45°	286.2	286.2	297.3	305.6	333.4	369.5	336.2	305.6	300.1	294.5	291.7
47.5°	263.9	266.7	272.3	283.4	305.6	330.6	308.4	283.4	269.5	266.7	261.2
50°	236.2	238.9	250.0	261.2	288.9	302.8	288.9	261.2	247.3	238.9	238.9
52°	213.9	222.3	233.4	255.6	275.0	297.3	280.6	250.0	233.4	225.0	219.5
52.5°	211.1	216.7	227.8	252.8	275.0	294.5	277.8	247.3	227.8	222.3	216.7
55°	188.9	197.3	216.7	247.3	272.3	294.5	272.3	244.5	216.7	202.8	197.3
57.5°	180.6	186.1	211.1	250.0	269.5	294.5	272.3	244.5	216.7	191.7	186.1
60°	172.3	183.4	211.1	241.7	266.7	297.3	275.0	241.7	211.1	180.6	180.6
62.5°	163.9	172.3	208.4	236.2	255.6	286.2	263.9	236.2	202.8	172.3	169.5
65°	141.7	155.6	183.4	197.3	219.5	247.3	225.0	205.6	177.8	152.8	150.0
67.5°	108.4	113.9	136.1	152.8	166.7	191.7	180.6	155.6	136.1	116.7	116.7
70°	75.0	80.6	97.2	105.6	119.5	133.4	125.0	105.6	91.7	80.6	77.8
72.5°	52.8	55.6	61.1	66.7	72.2	77.8	75.0	61.1	52.8	50.0	47.2
75°	41.7	47.2	50.0	47.2	44.5	41.7	41.7	36.1	30.6	27.8	27.8
77.5°	41.7	44.5	41.7	36.1	30.6	27.8	25.0	22.2	16.7	13.9	16.7
80°	36.1	36.1	36.1	30.6	27.8	25.0	22.2	19.4	16.7	13.9	13.9
82.5°	38.9	38.9	36.1	30.6	30.6	25.0	25.0	22.2	19.4	13.9	13.9
85°	0.0	0.0	0.0	5.6	13.9	25.0	25.0	22.2	19.4	16.7	16.7
87.5°	0.0	0.0	0.0	0.0	2.8	5.6	11.1	13.9	16.7	16.7	16.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	7101.3	7101.3	7101.3	7101.3	7101.3	7101.3	7101.3	7101.3	7101.3	7101.3	7101.3
2.5°	6134.4	6240.0	6440.1	6640.1	6762.3	6906.8	7168.0	7306.9	7487.5	7576.4	7751.4
5°	4942.6	5192.6	5281.5	5509.3	5753.8	5998.3	6387.3	6815.1	7170.7	7415.2	7732.0
7.5°	3606.2	3664.6	4009.1	4161.9	4561.9	5006.5	5537.1	6076.1	6526.2	6926.3	7168.0
10°	2703.3	2917.2	3133.9	3425.6	3747.9	4206.3	4714.7	5309.3	5892.7	6292.8	6598.4
12.5°	2172.6	2342.1	2631.0	2945.0	3342.3	3645.1	4156.3	4745.3	5501.0	5892.7	6295.6
15°	1644.7	1861.4	2189.3	2514.3	2933.9	3253.4	3770.1	4511.9	5484.3	6023.3	6370.6
17.5°	1219.7	1366.9	1661.4	2025.4	2453.2	2903.3	3600.7	4486.9	5670.5	6312.3	6670.7
20°	933.5	983.5	1169.7	1494.7	1958.7	2547.7	3325.6	4595.3	6220.6	7015.2	7379.1
22.5°	755.7	777.9	850.2	1075.2	1525.3	2236.5	3195.0	4670.3	6840.1	7857.0	8343.2
25°	658.5	652.9	700.1	797.4	1191.9	1944.8	3028.3	4953.7	7598.6	8846.0	9282.2
27.5°	600.1	600.1	622.3	691.8	989.1	1755.9	2922.8	5156.5	8362.6	9715.6	9951.8
30°	569.5	575.1	639.0	661.2	822.4	1530.8	2747.7	5362.1	9093.3	10271.3	10596.4
32.5°	527.9	505.6	491.8	547.3	691.8	1328.0	2572.7	5448.2	9685.1	10952.0	11229.8
35°	405.6	394.5	411.2	452.9	594.6	1155.8	2378.2	5545.4	10365.8	11741.0	11796.6
37.5°	366.7	364.0	375.1	411.2	500.1	1005.7	2239.3	5520.4	10885.3	12393.9	12243.9
40°	339.0	339.0	347.3	377.8	447.3	900.2	2094.8	5498.2	11388.2	13127.4	12688.4
42.5°	316.7	316.7	330.6	350.1	425.1	830.7	1986.5	5467.7	11810.5	13577.5	12949.6
45°	286.2	294.5	316.7	336.2	430.6	783.5	1905.9	5351.0	11954.9	13571.9	12824.5
47.5°	263.9	275.0	297.3	325.1	389.0	769.6	1850.3	5248.2	11904.9	13238.5	12432.8
50°	238.9	252.8	283.4	330.6	330.6	741.8	1792.0	5339.9	11868.8	12980.1	12057.7
52°	222.3	233.4	272.3	322.3	288.9	683.5	1755.9	5517.7	12016.1	12946.8	11891.0
52.5°	219.5	227.8	263.9	316.7	275.0	672.3	1730.9	5559.3	12063.3	12863.4	12005.0
55°	194.5	205.6	241.7	247.3	225.0	552.9	1650.3	5653.8	11829.9	12699.5	11896.6
57.5°	183.4	188.9	213.9	202.8	194.5	416.7	1419.7	5506.6	10507.5	11279.8	11068.7
60°	169.5	175.0	200.0	158.4	163.9	291.7	1066.9	4781.4	8437.6	9398.9	9779.5
62.5°	163.9	161.1	188.9	127.8	138.9	211.1	752.9	3886.8	6501.2	7737.5	8396.0
65°	144.5	141.7	136.1	108.4	119.5	163.9	450.1	2536.6	4581.4	5853.8	6215.0
67.5°	111.1	116.7	100.0	86.1	100.0	127.8	250.0	1136.3	2403.2	3511.7	3803.5
70°	77.8	83.3	80.6	75.0	88.9	105.6	144.5	389.0	994.6	1844.8	2033.7
72.5°	47.2	58.3	61.1	63.9	77.8	91.7	102.8	125.0	263.9	652.9	811.3
75°	27.8	38.9	47.2	55.6	63.9	77.8	86.1	88.9	91.7	122.2	197.3
77.5°	19.4	27.8	41.7	52.8	63.9	77.8	91.7	97.2	91.7	86.1	91.7
80°	16.7	27.8	38.9	50.0	66.7	80.6	91.7	91.7	88.9	77.8	83.3
82.5°	16.7	27.8	41.7	52.8	63.9	77.8	88.9	91.7	83.3	77.8	80.6
85°	19.4	30.6	44.5	55.6	69.5	63.9	58.3	47.2	44.5	36.1	38.9
87.5°	19.4	27.8	27.8	30.6	33.3	33.3	33.3	30.6	25.0	22.2	22.2
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: P529355

CATALOG NUMBER: GALN-SA4C-730-U-SLR-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7101.3	7101.3	7101.3	7101.3	7101.3	7101.3	7101.3	7101.3	7101.3	7101.3
2.5°	7759.7	7982.0	7973.7	7979.2	7945.9	7720.8	7612.5	7337.4	7415.2	7381.9
5°	8057.0	8276.5	8465.4	8443.2	8187.6	7882.0	7429.1	7001.3	6884.6	6712.3
7.5°	7759.7	8287.6	8462.6	8437.6	8059.8	7668.1	6945.7	6517.8	6315.0	6201.1
10°	7287.4	7898.7	8115.4	8159.8	7904.2	7309.7	6645.6	5959.4	5851.1	5653.8
12.5°	7017.9	7462.5	7595.8	7715.3	7626.4	7181.9	6417.8	5759.4	5609.3	5478.8
15°	6798.5	7062.4	7118.0	7254.1	7306.9	7067.9	6537.3	5976.1	5606.6	5592.7
17.5°	7001.3	6892.9	6690.1	6731.8	6898.5	7070.7	6845.7	6403.9	6045.5	6001.1
20°	7337.4	6859.6	6401.2	6504.0	6642.9	7170.7	7312.4	7001.3	6795.7	6681.8
22.5°	7723.6	6917.9	6309.5	6359.5	6623.4	7395.8	8068.1	7895.9	7512.5	7348.6
25°	8437.6	7079.1	6381.7	6415.1	6776.2	7709.7	8751.6	8879.4	8651.6	8618.2
27.5°	9135.0	7495.8	6540.1	6465.1	6854.0	8015.3	9165.5	9851.8	9451.7	9373.9
30°	9490.6	7834.8	6776.2	6648.4	7176.3	8201.5	9415.6	10485.2	10135.2	10099.1
32.5°	10035.2	8143.1	6959.6	6795.7	7356.9	8432.1	9882.3	11177.0	10838.1	10657.5
35°	10263.0	8479.3	7362.4	7170.7	7873.6	8754.4	10121.3	11793.8	11688.2	11513.2
37.5°	10701.9	8840.5	7837.5	7826.4	8498.8	9173.9	10551.9	12632.8	12613.4	12310.6
40°	10738.1	9235.0	8587.7	8937.7	9465.6	9904.6	10929.8	12866.2	13182.9	12977.4
42.5°	10793.6	9926.8	9885.1	10174.1	10626.9	10532.5	10943.6	12921.8	13405.2	13283.0
45°	10818.6	10618.6	11204.8	11738.2	11927.2	11354.8	10813.1	12816.2	13521.9	13216.3
47.5°	10618.6	11213.1	12271.7	13302.4	13358.0	11860.5	10757.5	12707.9	13591.4	13388.5
50°	10646.4	11585.4	13194.1	14116.4	13913.6	12307.8	10671.4	12641.2	13555.2	13419.1
52°	10579.7	11593.8	13324.6	14099.8	13958.1	12060.5	10524.1	12385.6	13521.9	13619.1
52.5°	10654.7	11543.8	13188.5	14110.9	13927.5	12182.8	10504.7	12527.3	13541.3	13344.1
55°	10396.3	10949.2	12391.1	12782.9	12755.1	11057.6	9907.3	12057.7	13032.9	13035.7
57.5°	9396.1	9490.6	9718.4	9710.1	9582.3	8693.2	8473.8	11088.1	11618.8	11329.8
60°	8279.3	6948.5	6334.5	6084.4	5942.7	5798.3	7495.8	10143.5	10193.5	10071.3
62.5°	7154.1	4817.5	4000.7	3931.3	3964.6	4492.5	7245.8	9768.4	9468.4	9204.4
65°	5773.3	3511.7	2906.1	2814.4	3139.5	3709.0	5865.0	7490.2	7029.1	6809.6
67.5°	3625.7	2561.6	1964.2	1792.0	2183.7	2553.2	3853.5	4706.4	4189.6	3886.8
70°	2150.4	1430.8	889.0	797.4	897.4	1361.4	2158.7	2347.6	1942.0	1786.4
72.5°	847.4	525.1	247.3	211.1	219.5	477.9	794.6	775.1	586.2	522.3
75°	227.8	158.4	86.1	69.5	58.3	88.9	127.8	83.3	30.6	38.9
77.5°	105.6	94.5	75.0	58.3	44.5	33.3	16.7	5.6	5.6	2.8
80°	91.7	80.6	69.5	58.3	44.5	27.8	13.9	2.8	2.8	2.8
82.5°	86.1	75.0	63.9	52.8	41.7	27.8	13.9	2.8	0.0	0.0
85°	36.1	47.2	52.8	50.0	44.5	27.8	13.9	2.8	0.0	0.0
87.5°	19.4	16.7	13.9	11.1	8.3	5.6	5.6	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

(END OF REPORT)