

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: P529823

Luminaire Tested: **GALN-SA5A-730-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529823  
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-SA5A-730-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 615mA 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: 11530 lumens  
Efficiency: N/A  
Efficacy: 74.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G1

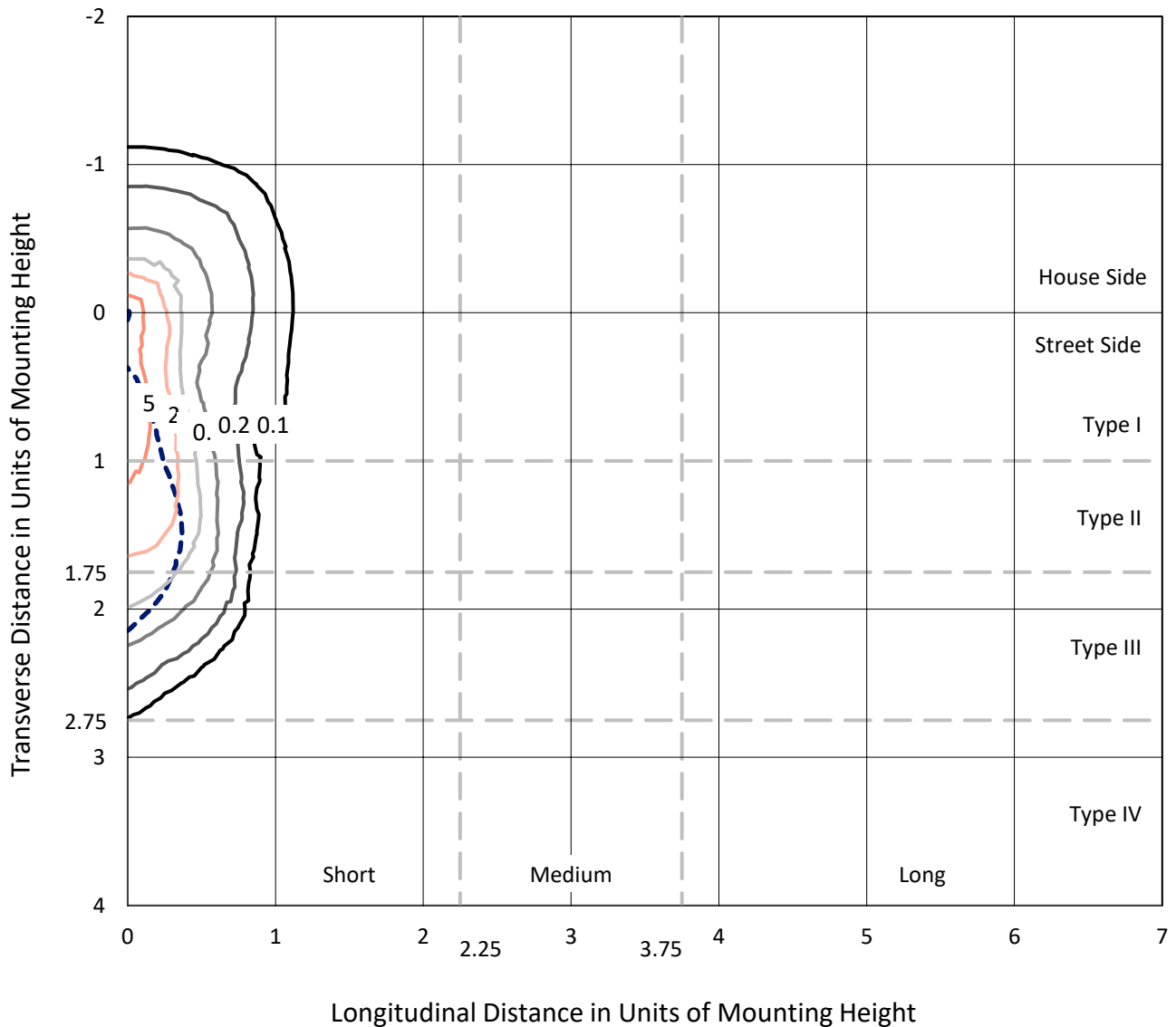
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

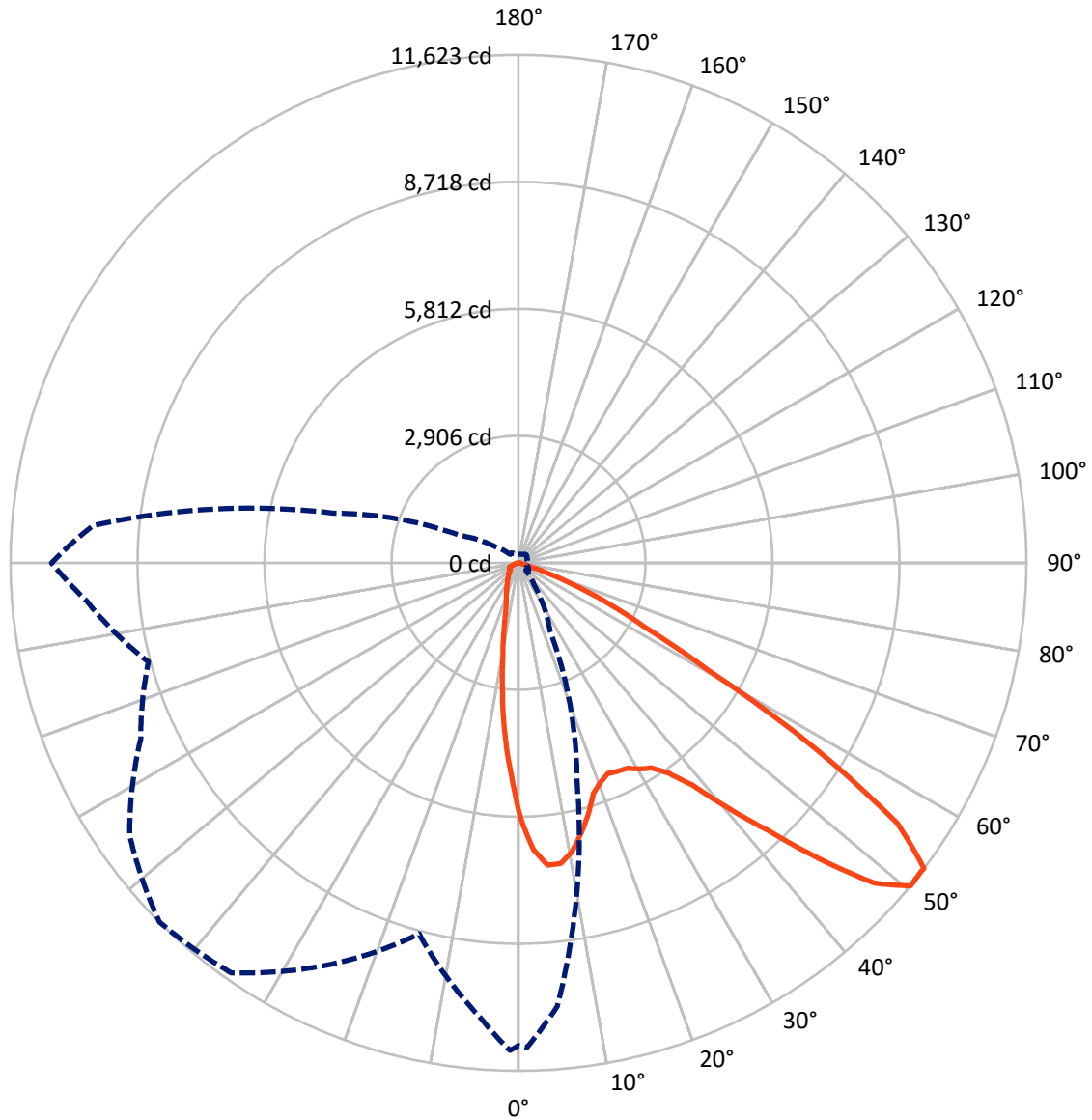
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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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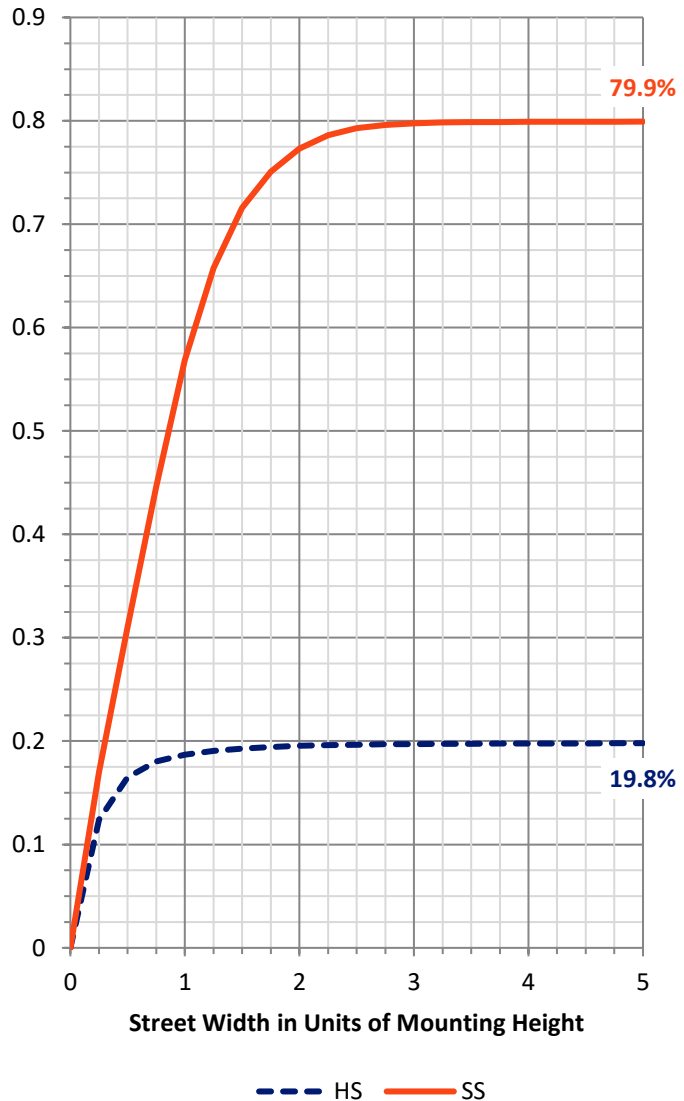
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2309.5	0.0	2309.5
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	9220.5	0.0	9220.5
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	11530.0	0.0	11530.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	426.2	3.7
10°-20°	847.0	7.3
20°-30°	1272.5	11.0
30°-40°	1910.0	16.6
40°-50°	2684.4	23.3
50°-60°	2895.6	25.1
60°-70°	1344.4	11.7
70°-80°	126.5	1.1
80°-90°	23.3	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°	11530.0	100.0
0°-180°	11530.0	100.0

**Coefficient of Utilization**

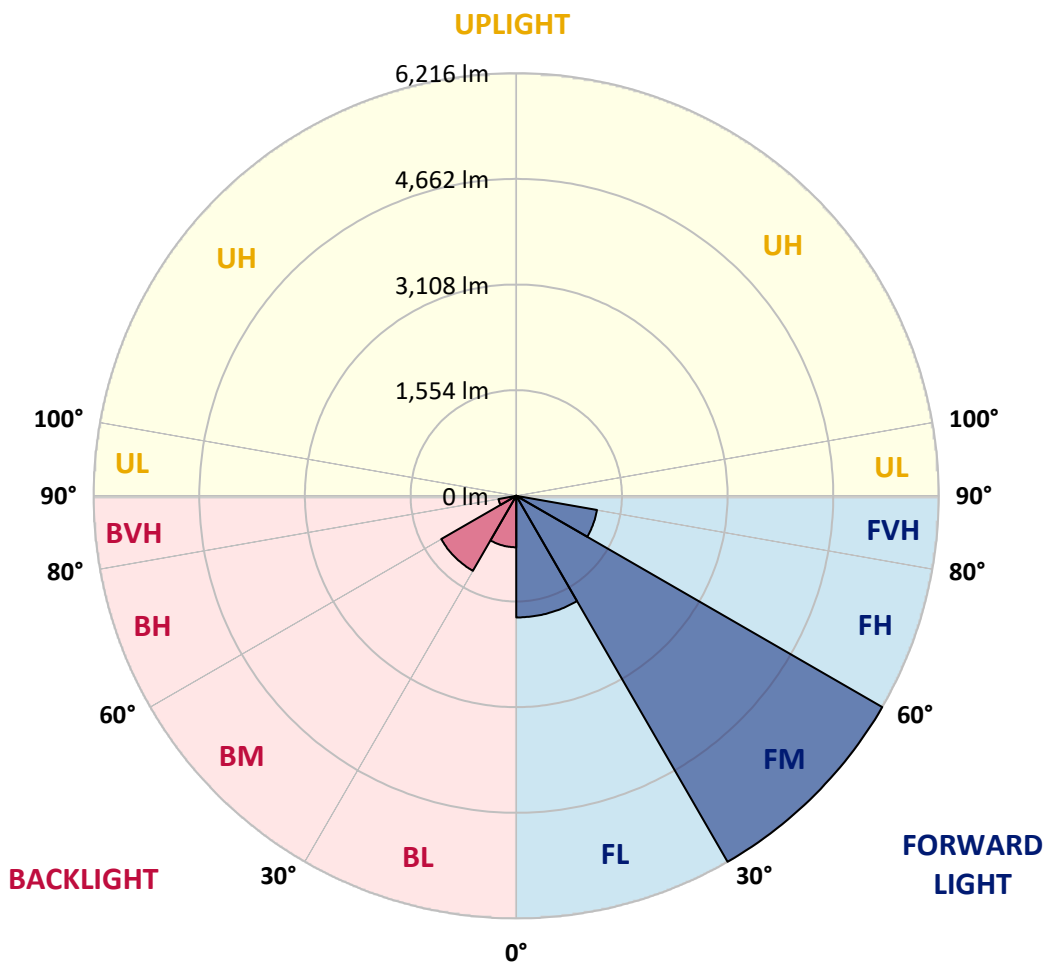


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1788.8	15.5			
FM (30°-60°)	6215.5	53.9			
FH (60°-80°)	1205.7	10.5			G1/1800
FVH (80°-90°)	10.5	0.1			G1/100
BL (0°-30°)	757.0	6.6	B2/1000		
BM (30°-60°)	1274.5	11.1	B2/2500		
BH (60°-80°)	265.2	2.3	B1/500		G1/500
BVH (80°-90°)	12.8	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°	5847.2	5847.2	5847.2	5847.2	5847.2	5847.2	5847.2	5847.2	5847.2	5847.2	5847.2
2.5°	6078.2	5984.4	5865.5	5767.1	5620.7	5325.6	5245.5	5149.4	5069.4	4961.9	4810.9
5°	5526.9	5497.2	5442.3	5071.7	4804.0	4447.1	4154.3	4030.8	3868.4	3735.7	3639.6
7.5°	5106.0	4987.0	4813.2	4440.3	4012.5	3630.5	3305.6	3115.7	2900.7	2827.5	2697.1
10°	4655.3	4682.8	4426.5	3902.7	3385.7	3076.9	2875.5	2692.5	2498.1	2370.0	2184.7
12.5°	4511.2	4422.0	4225.2	3577.8	3136.3	2848.1	2603.3	2376.8	2171.0	1965.1	1786.6
15°	4605.0	4467.7	4193.2	3509.2	2944.2	2585.0	2278.5	1971.9	1782.1	1519.0	1333.7
17.5°	4941.3	4831.5	4463.2	3582.4	2845.8	2333.4	1878.1	1562.4	1271.9	1034.0	940.2
20°	5501.7	5346.2	4884.1	3676.2	2699.4	2029.1	1523.6	1134.7	860.1	759.5	706.9
22.5°	6050.8	5966.1	5382.8	3856.9	2569.0	1759.2	1143.8	764.1	642.8	624.5	590.2
25°	7096.2	6842.3	6144.6	4184.1	2468.3	1505.3	862.4	615.4	544.5	530.7	535.3
27.5°	7718.4	7505.7	6849.1	4401.4	2356.3	1310.8	729.8	565.0	517.0	487.3	475.8
30°	8315.5	8068.4	7199.1	4529.5	2116.1	1104.9	647.4	542.2	530.7	487.3	473.5
32.5°	8775.3	8532.8	7704.7	4721.7	2017.7	972.2	533.0	423.2	393.5	388.9	430.1
35°	9479.9	9221.4	8137.1	4826.9	1942.2	903.6	462.1	377.5	343.1	329.4	331.7
37.5°	10136.5	9960.3	8537.4	4868.1	1862.1	883.0	414.1	338.6	308.8	299.7	297.4
40°	10685.5	10292.0	8917.2	4911.5	1827.8	844.1	384.3	308.8	288.2	274.5	274.5
42.5°	10937.1	10536.8	9342.7	4886.4	1818.7	782.4	384.3	283.7	267.7	253.9	251.6
45°	10882.2	10719.8	9532.5	4874.9	1818.7	720.6	350.0	276.8	253.9	235.6	231.0
47.5°	11024.1	10811.3	9770.4	4923.0	1782.1	677.1	295.1	290.5	240.2	217.3	212.7
50°	11049.2	11090.4	10184.5	5172.3	1702.0	622.2	231.0	286.0	231.0	196.7	192.2
52°	11213.9	10957.7	10310.3	5305.0	1617.3	581.1	194.4	244.8	221.9	183.0	178.4
52.5°	10987.5	11154.4	10340.1	5353.0	1626.5	553.6	187.6	240.2	217.3	183.0	171.6
55°	10733.5	10893.7	10218.8	5456.0	1491.5	434.6	146.4	173.9	196.7	160.1	153.3
57.5°	9328.9	9491.3	8880.6	4996.2	1214.7	306.5	121.2	130.4	173.9	148.7	141.8
60°	8292.6	8176.0	7453.1	4168.0	862.4	171.6	96.1	100.7	189.9	137.3	135.0
62.5°	7578.9	7329.5	6229.2	3218.7	526.2	114.4	75.5	77.8	146.4	128.1	128.1
65°	5607.0	5327.9	4138.3	1946.8	258.5	80.1	57.2	61.8	91.5	109.8	109.8
67.5°	3200.4	3092.9	1999.4	878.4	107.5	50.3	43.5	48.0	70.9	89.2	84.6
70°	1470.9	1320.0	768.6	185.3	50.3	34.3	34.3	38.9	57.2	66.3	61.8
72.5°	430.1	407.2	187.6	29.7	20.6	20.6	22.9	29.7	43.5	50.3	45.8
75°	32.0	20.6	13.7	9.2	9.2	13.7	18.3	29.7	43.5	48.0	38.9
77.5°	2.3	4.6	2.3	2.3	6.9	13.7	20.6	36.6	57.2	59.5	43.5
80°	2.3	2.3	0.0	2.3	6.9	13.7	22.9	41.2	64.1	68.6	36.6
82.5°	0.0	0.0	0.0	2.3	9.2	18.3	27.5	43.5	59.5	73.2	38.9
85°	0.0	0.0	0.0	2.3	13.7	25.2	32.0	11.4	6.9	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°	5847.2	5847.2	5847.2	5847.2	5847.2	5847.2	5847.2	5847.2	5847.2	5847.2	5847.2
2.5°	4918.4	4858.9	4836.0	4856.6	4849.8	4842.9	4968.7	4941.3	4936.7	4977.9	4968.7
5°	3692.2	3587.0	3875.2	3758.6	3879.8	3953.0	3966.7	3973.6	4058.2	3969.0	4085.7
7.5°	2630.8	2658.2	2655.9	2733.7	2873.3	2996.8	3070.0	3012.8	3008.2	2996.8	2946.5
10°	2102.3	2054.3	2045.1	2026.8	2070.3	2175.5	2264.7	2193.8	2143.5	2212.1	2191.5
12.5°	1718.0	1651.7	1615.1	1541.9	1544.1	1615.1	1615.1	1615.1	1665.4	1704.3	1734.0
15°	1317.7	1262.8	1262.8	1189.6	1173.6	1175.8	1212.4	1217.0	1297.1	1320.0	1331.4
17.5°	921.9	892.2	926.5	956.2	937.9	942.5	956.2	960.8	972.2	963.1	986.0
20°	709.2	704.6	713.7	766.4	805.2	828.1	812.1	789.2	775.5	743.5	743.5
22.5°	601.6	610.8	626.8	670.3	720.6	734.3	716.0	663.4	622.2	617.7	619.9
25°	535.3	544.5	569.6	597.1	624.5	647.4	629.1	590.2	567.3	546.7	546.7
27.5°	494.1	498.7	512.4	533.0	555.9	574.2	567.3	546.7	521.6	512.4	491.8
30°	462.1	469.0	485.0	489.6	510.1	519.3	507.9	503.3	487.3	475.8	469.0
32.5°	446.1	443.8	455.2	459.8	462.1	469.0	455.2	462.1	459.8	441.5	434.6
35°	336.3	354.6	384.3	409.5	416.3	425.5	423.2	414.1	388.9	368.3	343.1
37.5°	302.0	313.4	329.4	350.0	377.5	388.9	384.3	361.4	331.7	318.0	313.4
40°	279.1	286.0	299.7	313.4	340.9	361.4	345.4	324.8	302.0	290.5	283.7
42.5°	258.5	260.8	267.7	281.4	302.0	334.0	306.5	279.1	269.9	263.1	258.5
45°	235.6	235.6	244.8	251.6	274.5	304.3	276.8	251.6	247.1	242.5	240.2
47.5°	217.3	219.6	224.2	233.3	251.6	272.2	253.9	233.3	221.9	219.6	215.0
50°	194.4	196.7	205.9	215.0	237.9	249.4	237.9	215.0	203.6	196.7	196.7
52°	176.1	183.0	192.2	210.5	226.5	244.8	231.0	205.9	192.2	185.3	180.7
52.5°	173.9	178.4	187.6	208.2	226.5	242.5	228.8	203.6	187.6	183.0	178.4
55°	155.6	162.4	178.4	203.6	224.2	242.5	224.2	201.3	178.4	167.0	162.4
57.5°	148.7	153.3	173.9	205.9	221.9	242.5	224.2	201.3	178.4	157.8	153.3
60°	141.8	151.0	173.9	199.0	219.6	244.8	226.5	199.0	173.9	148.7	148.7
62.5°	135.0	141.8	171.6	194.4	210.5	235.6	217.3	194.4	167.0	141.8	139.5
65°	116.7	128.1	151.0	162.4	180.7	203.6	185.3	169.3	146.4	125.8	123.5
67.5°	89.2	93.8	112.1	125.8	137.3	157.8	148.7	128.1	112.1	96.1	96.1
70°	61.8	66.3	80.1	86.9	98.4	109.8	102.9	86.9	75.5	66.3	64.1
72.5°	43.5	45.8	50.3	54.9	59.5	64.1	61.8	50.3	43.5	41.2	38.9
75°	34.3	38.9	41.2	38.9	36.6	34.3	34.3	29.7	25.2	22.9	22.9
77.5°	34.3	36.6	34.3	29.7	25.2	22.9	20.6	18.3	13.7	11.4	13.7
80°	29.7	29.7	29.7	25.2	22.9	20.6	18.3	16.0	13.7	11.4	11.4
82.5°	32.0	32.0	29.7	25.2	25.2	20.6	20.6	18.3	16.0	11.4	11.4
85°	0.0	0.0	0.0	4.6	11.4	20.6	20.6	18.3	16.0	13.7	13.7
87.5°	0.0	0.0	0.0	0.0	2.3	4.6	9.2	11.4	13.7	13.7	13.7
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°	5847.2	5847.2	5847.2	5847.2	5847.2	5847.2	5847.2	5847.2	5847.2	5847.2	5847.2
2.5°	5051.1	5138.0	5302.7	5467.4	5568.1	5687.0	5902.1	6016.4	6165.1	6238.3	6382.5
5°	4069.7	4275.6	4348.8	4536.4	4737.7	4939.0	5259.2	5611.5	5904.4	6105.7	6366.5
7.5°	2969.3	3017.4	3301.0	3426.9	3756.3	4122.3	4559.2	5003.0	5373.6	5703.0	5902.1
10°	2225.9	2402.0	2580.4	2820.6	3086.0	3463.5	3882.1	4371.6	4852.0	5181.5	5433.1
12.5°	1788.9	1928.5	2166.4	2424.9	2752.0	3001.4	3422.3	3907.3	4529.5	4852.0	5183.8
15°	1354.3	1532.7	1802.6	2070.3	2415.7	2678.8	3104.3	3715.1	4515.8	4959.6	5245.5
17.5°	1004.3	1125.5	1368.0	1667.7	2020.0	2390.6	2964.8	3694.5	4669.0	5197.5	5492.6
20°	768.6	809.8	963.1	1230.7	1612.8	2097.7	2738.3	3783.7	5122.0	5776.2	6075.9
22.5°	622.2	640.5	700.0	885.3	1255.9	1841.5	2630.8	3845.5	5632.1	6469.4	6869.7
25°	542.2	537.6	576.5	656.5	981.4	1601.3	2493.5	4078.8	6256.6	7283.8	7642.9
27.5°	494.1	494.1	512.4	569.6	814.4	1445.8	2406.6	4245.8	6885.7	7999.8	8194.3
30°	469.0	473.5	526.2	544.5	677.1	1260.5	2262.5	4415.1	7487.4	8457.3	8725.0
32.5°	434.6	416.3	404.9	450.7	569.6	1093.5	2118.3	4486.0	7974.7	9017.8	9246.6
35°	334.0	324.8	338.6	372.9	489.6	951.7	1958.2	4566.1	8535.1	9667.5	9713.2
37.5°	302.0	299.7	308.8	338.6	411.8	828.1	1843.8	4545.5	8962.9	10205.1	10081.6
40°	279.1	279.1	286.0	311.1	368.3	741.2	1724.9	4527.2	9377.0	10809.0	10447.6
42.5°	260.8	260.8	272.2	288.2	350.0	684.0	1635.7	4502.0	9724.7	11179.6	10662.6
45°	235.6	242.5	260.8	276.8	354.6	645.1	1569.3	4406.0	9843.6	11175.0	10559.7
47.5°	217.3	226.5	244.8	267.7	320.3	633.7	1523.6	4321.3	9802.5	10900.5	10237.1
50°	196.7	208.2	233.3	272.2	272.2	610.8	1475.5	4396.8	9772.7	10687.8	9928.3
52°	183.0	192.2	224.2	265.4	237.9	562.8	1445.8	4543.2	9894.0	10660.3	9791.0
52.5°	180.7	187.6	217.3	260.8	226.5	553.6	1425.2	4577.5	9932.9	10591.7	9884.8
55°	160.1	169.3	199.0	203.6	185.3	455.2	1358.8	4655.3	9740.7	10456.7	9795.6
57.5°	151.0	155.6	176.1	167.0	160.1	343.1	1169.0	4534.1	8651.8	9287.7	9113.9
60°	139.5	144.1	164.7	130.4	135.0	240.2	878.4	3937.0	6947.5	7739.0	8052.4
62.5°	135.0	132.7	155.6	105.2	114.4	173.9	619.9	3200.4	5353.0	6371.0	6913.2
65°	119.0	116.7	112.1	89.2	98.4	135.0	370.6	2088.6	3772.3	4820.0	5117.4
67.5°	91.5	96.1	82.4	70.9	82.4	105.2	205.9	935.6	1978.8	2891.6	3131.8
70°	64.1	68.6	66.3	61.8	73.2	86.9	119.0	320.3	819.0	1519.0	1674.5
72.5°	38.9	48.0	50.3	52.6	64.1	75.5	84.6	102.9	217.3	537.6	668.0
75°	22.9	32.0	38.9	45.8	52.6	64.1	70.9	73.2	75.5	100.7	162.4
77.5°	16.0	22.9	34.3	43.5	52.6	64.1	75.5	80.1	75.5	70.9	75.5
80°	13.7	22.9	32.0	41.2	54.9	66.3	75.5	75.5	73.2	64.1	68.6
82.5°	13.7	22.9	34.3	43.5	52.6	64.1	73.2	75.5	68.6	64.1	66.3
85°	16.0	25.2	36.6	45.8	57.2	52.6	48.0	38.9	36.6	29.7	32.0
87.5°	16.0	22.9	22.9	25.2	27.5	27.5	27.5	25.2	20.6	18.3	18.3
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: P529823

CATALOG NUMBER: GALN-SA5A-730-U-SLR-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5847.2	5847.2	5847.2	5847.2	5847.2	5847.2	5847.2	5847.2	5847.2	5847.2
2.5°	6389.3	6572.3	6565.5	6570.1	6542.6	6357.3	6268.1	6041.6	6105.7	6078.2
5°	6634.1	6814.8	6970.4	6952.1	6741.6	6490.0	6117.1	5764.8	5668.7	5526.9
7.5°	6389.3	6824.0	6968.1	6947.5	6636.4	6313.8	5719.1	5366.8	5199.8	5106.0
10°	6000.4	6503.7	6682.1	6718.7	6508.3	6018.7	5472.0	4907.0	4817.7	4655.3
12.5°	5778.5	6144.6	6254.4	6352.7	6279.5	5913.5	5284.4	4742.2	4618.7	4511.2
15°	5597.8	5815.1	5860.9	5973.0	6016.4	5819.7	5382.8	4920.7	4616.4	4605.0
17.5°	5764.8	5675.6	5508.6	5542.9	5680.2	5822.0	5636.7	5273.0	4977.9	4941.3
20°	6041.6	5648.1	5270.7	5355.3	5469.7	5904.4	6021.0	5764.8	5595.5	5501.7
22.5°	6359.6	5696.2	5195.2	5236.4	5453.7	6089.7	6643.3	6501.4	6185.7	6050.8
25°	6947.5	5828.9	5254.7	5282.1	5579.5	6348.2	7206.0	7311.2	7123.7	7096.2
27.5°	7521.7	6172.0	5385.1	5323.3	5643.6	6599.8	7546.9	8111.9	7782.5	7718.4
30°	7814.5	6451.1	5579.5	5474.3	5908.9	6753.1	7752.8	8633.5	8345.2	8315.5
32.5°	8262.9	6705.0	5730.5	5595.5	6057.6	6942.9	8137.1	9203.1	8924.0	8775.3
35°	8450.5	6981.8	6062.2	5904.4	6483.1	7208.3	8333.8	9711.0	9624.0	9479.9
37.5°	8811.9	7279.2	6453.4	6444.2	6997.8	7553.7	8688.4	10401.8	10385.8	10136.5
40°	8841.7	7604.1	7071.0	7359.3	7793.9	8155.4	8999.5	10594.0	10854.8	10685.5
42.5°	8887.4	8173.7	8139.4	8377.3	8750.2	8672.4	9010.9	10639.7	11037.8	10937.1
45°	8908.0	8743.3	9226.0	9665.2	9820.8	9349.5	8903.4	10552.8	11133.9	10882.2
47.5°	8743.3	9232.8	10104.4	10953.1	10998.9	9765.9	8857.7	10463.6	11191.0	11024.1
50°	8766.2	9539.4	10863.9	11623.4	11456.4	10134.2	8786.8	10408.7	11161.3	11049.2
52°	8711.3	9546.2	10971.4	11609.7	11493.0	9930.6	8665.5	10198.2	11133.9	11213.9
52.5°	8773.0	9505.1	10859.3	11618.8	11467.9	10031.2	8649.5	10314.9	11149.9	10987.5
55°	8560.3	9015.5	10202.8	10525.4	10502.5	9104.7	8157.7	9928.3	10731.2	10733.5
57.5°	7736.7	7814.5	8002.1	7995.2	7890.0	7158.0	6977.2	9129.9	9566.8	9328.9
60°	6817.1	5721.3	5215.8	5009.9	4893.2	4774.3	6172.0	8352.1	8393.3	8292.6
62.5°	5890.6	3966.7	3294.2	3237.0	3264.4	3699.1	5966.1	8043.3	7796.2	7578.9
65°	4753.7	2891.6	2392.9	2317.4	2585.0	3054.0	4829.2	6167.4	5787.7	5607.0
67.5°	2985.3	2109.2	1617.3	1475.5	1798.1	2102.3	3172.9	3875.2	3449.7	3200.4
70°	1770.6	1178.1	732.0	656.5	738.9	1120.9	1777.5	1933.0	1599.0	1470.9
72.5°	697.7	432.4	203.6	173.9	180.7	393.5	654.3	638.2	482.7	430.1
75°	187.6	130.4	70.9	57.2	48.0	73.2	105.2	68.6	25.2	32.0
77.5°	86.9	77.8	61.8	48.0	36.6	27.5	13.7	4.6	4.6	2.3
80°	75.5	66.3	57.2	48.0	36.6	22.9	11.4	2.3	2.3	2.3
82.5°	70.9	61.8	52.6	43.5	34.3	22.9	11.4	2.3	0.0	0.0
85°	29.7	38.9	43.5	41.2	36.6	22.9	11.4	2.3	0.0	0.0
87.5°	16.0	13.7	11.4	9.2	6.9	4.6	4.6	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)