

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: P529119

Luminaire Tested: **GALN-SA4B-730-U-SLL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529119  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4B-730-U-SLL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11333 lumens  
Efficiency: N/A  
Efficacy: 69.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G1

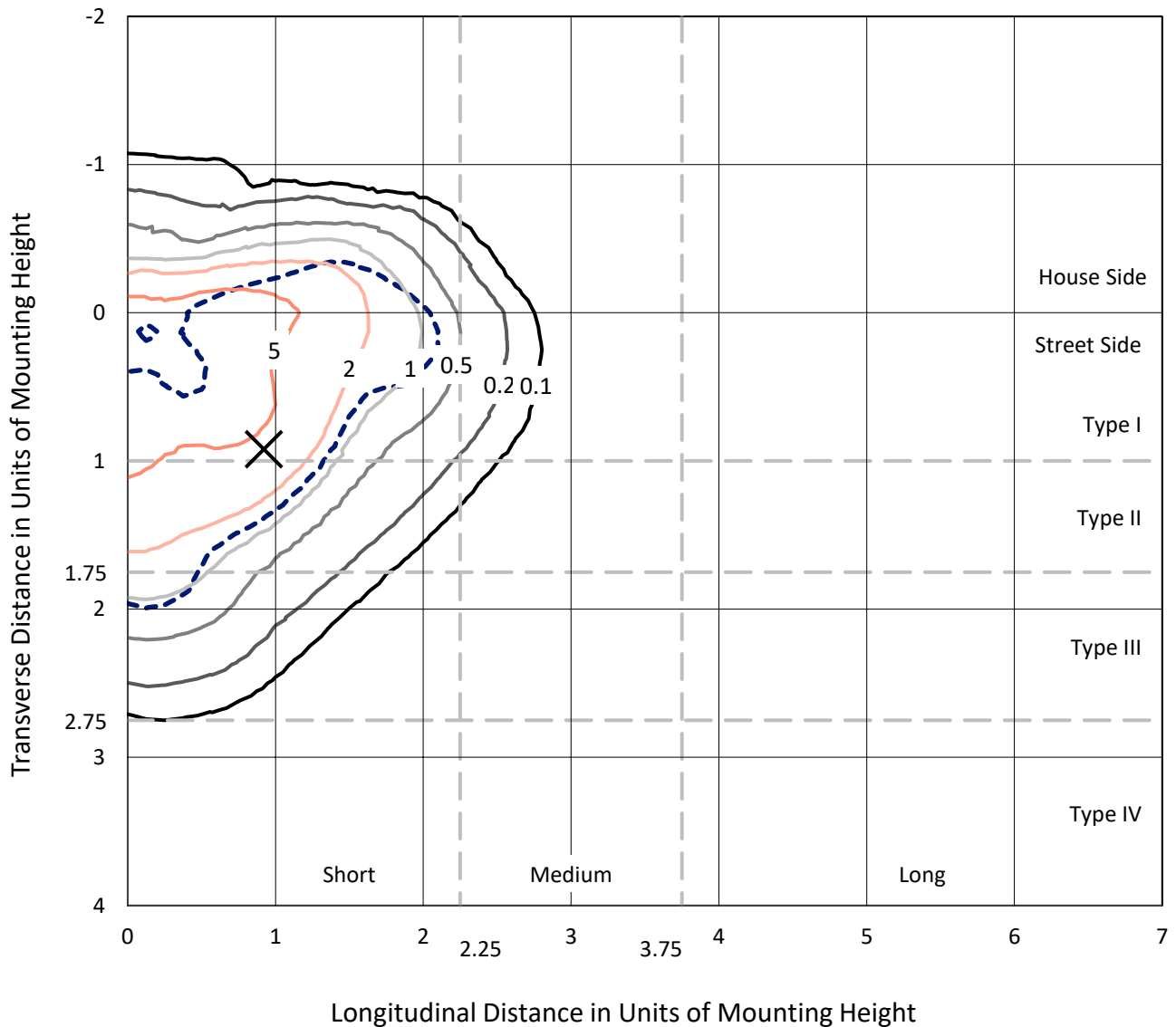
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

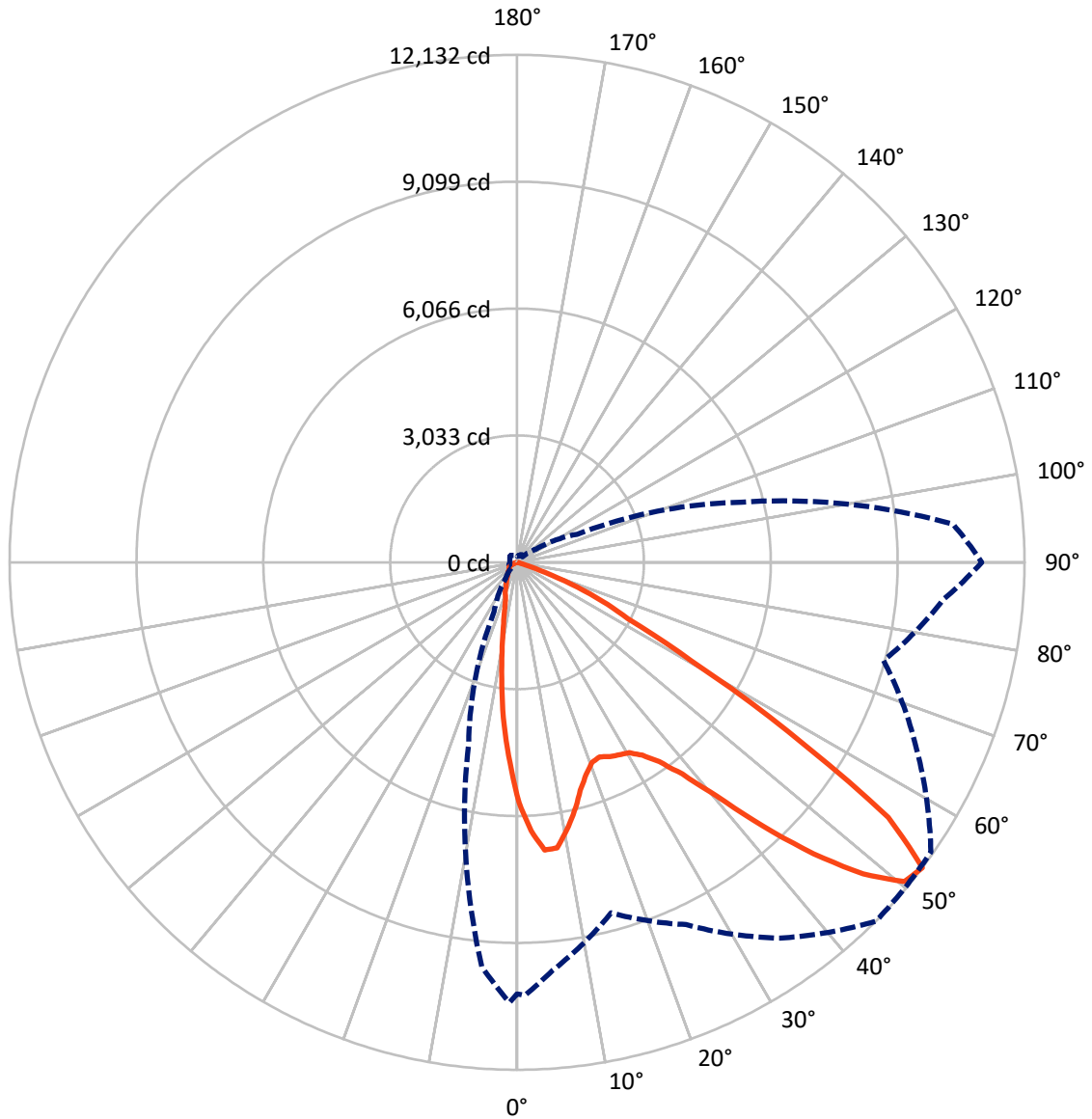
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

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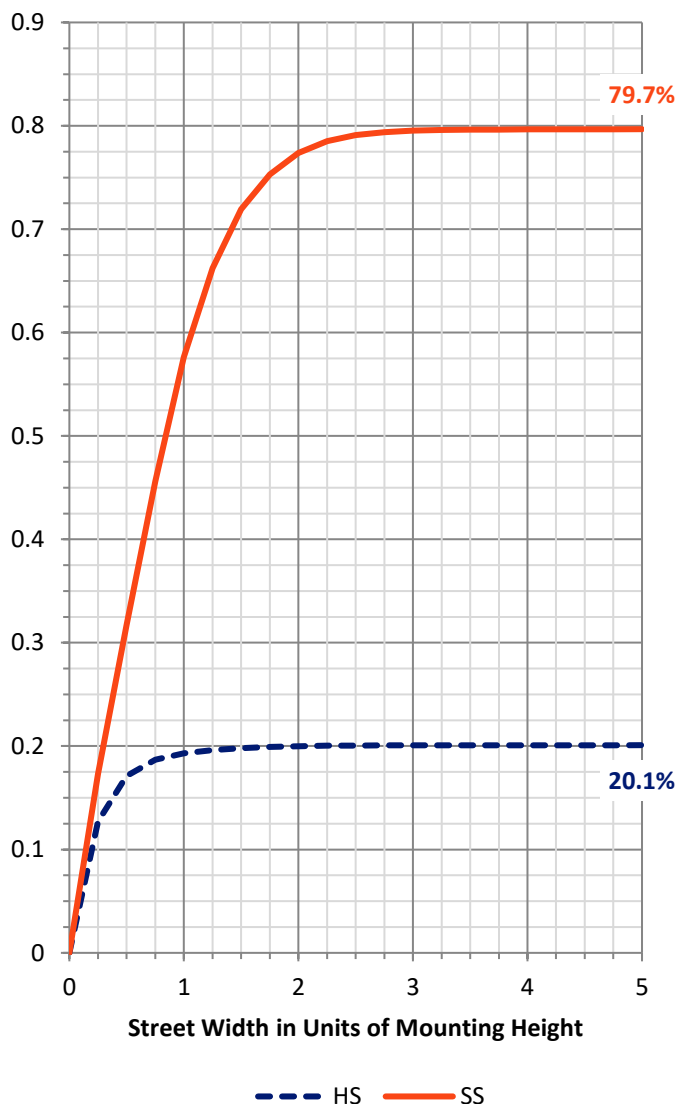
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2300.0	0.0	2300.0
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	9033.0	0.0	9033.0
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	11333.0	0.0	11333.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	419.1	3.7
10°-20°	826.8	7.3
20°-30°	1258.3	11.1
30°-40°	1880.6	16.6
40°-50°	2678.2	23.6
50°-60°	2879.0	25.4
60°-70°	1275.7	11.3
70°-80°	103.2	0.9
80°-90°	12.0	0.1
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°	11333.0	100.0
0°-180°	11333.0	100.0

**Coefficient of Utilization**



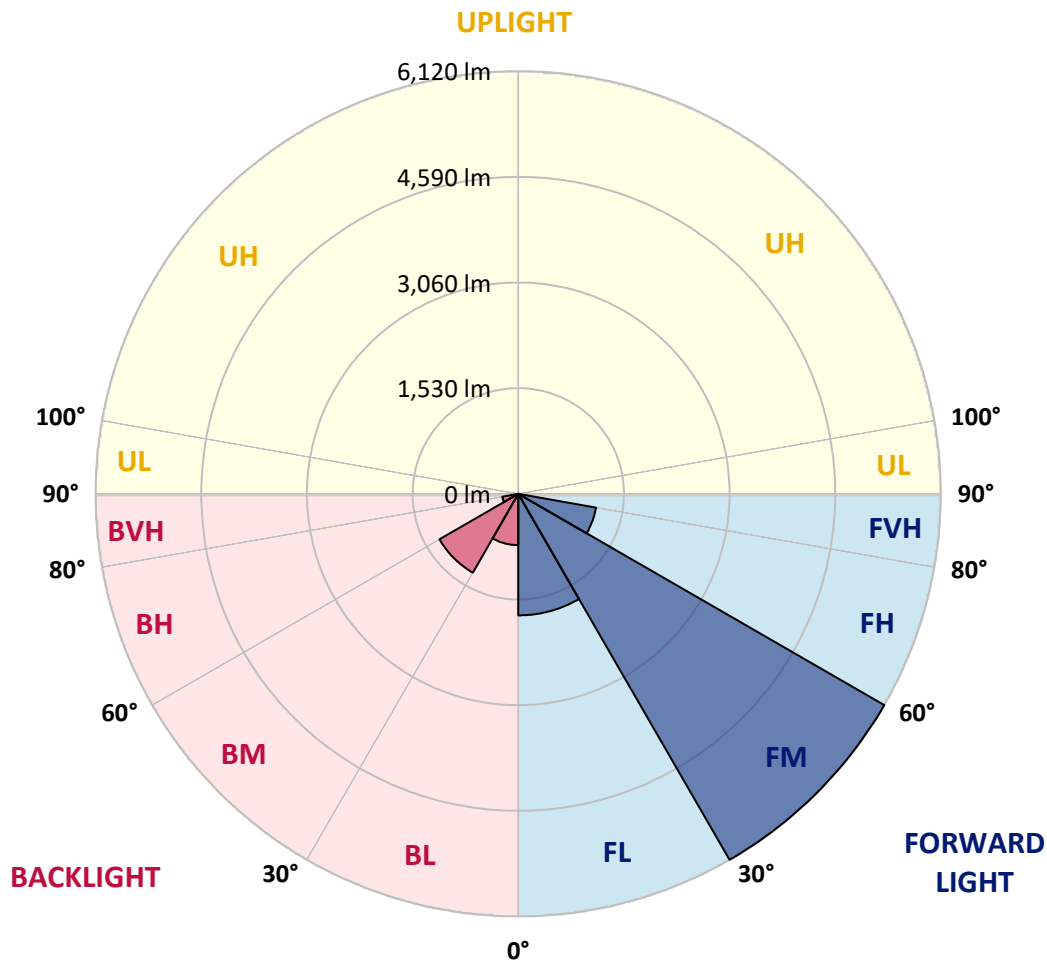
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1760.2	15.5			
FM (30°-60°)	6120.2	54.0			
FH (60°-80°)	1143.6	10.1			G1/1800
FVH (80°-90°)	8.9	0.1			G0/10
BL (0°-30°)	743.9	6.6	B2/1000		
BM (30°-60°)	1317.7	11.6	B2/2500		
BH (60°-80°)	235.3	2.1	B1/500		G1/500
BVH (80°-90°)	3.1	0.0			G0/10
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°	5746.4	5746.4	5746.4	5746.4	5746.4	5746.4	5746.4	5746.4	5746.4	5746.4	5746.4
2.5°	6080.7	6098.5	6196.6	6319.2	6383.9	6531.0	6428.4	6455.2	6399.5	6203.3	6049.5
5°	5895.7	5893.5	6018.3	6321.4	6609.0	6901.0	6909.9	6753.9	6479.7	6178.8	5748.6
7.5°	5338.5	5425.4	5554.7	6038.4	6571.1	6789.5	6894.3	6711.5	6290.2	5860.0	5394.2
10°	4917.2	4961.8	5180.2	5764.2	6154.3	6446.3	6510.9	6406.1	6082.9	5545.7	5024.2
12.5°	4674.2	4696.5	4952.8	5443.2	5855.6	6071.8	6103.0	6152.0	5920.2	5416.5	4790.1
15°	4676.4	4694.3	5039.8	5449.9	5612.6	5554.7	5657.2	5655.0	5755.3	5391.9	4986.3
17.5°	5013.0	5033.1	5345.1	5548.0	5476.6	5340.7	5334.0	5436.5	5648.3	5697.3	5282.7
20°	5592.6	5639.4	5869.0	5857.8	5456.6	5182.4	5106.6	5184.7	5677.3	5955.9	5880.1
22.5°	6372.7	6437.3	6597.8	6290.2	5548.0	5075.4	5050.9	5202.5	5869.0	6533.2	6557.7
25°	7277.7	7386.9	7464.9	7070.4	5873.4	5260.4	5144.5	5405.3	6127.5	7159.5	7420.3
27.5°	7877.3	7991.0	7973.1	7409.2	6091.9	5309.5	5211.4	5454.4	6352.6	7308.9	7870.6
30°	8345.4	8414.5	8539.3	7592.0	6310.3	5447.7	5280.5	5661.7	6426.2	7567.4	8414.5
32.5°	8891.5	8938.3	8947.2	7915.2	6646.9	5621.5	5494.5	5920.2	6751.6	7814.9	8895.9
35°	9442.0	9511.1	9366.3	8314.2	6854.2	5944.7	5851.1	6368.2	7012.4	8071.2	9426.4
37.5°	10039.4	10075.1	9740.7	8479.1	7150.6	6470.8	6419.5	6851.9	7464.9	8534.8	10014.9
40°	10540.9	10574.4	10139.7	8681.9	7462.7	7206.4	7337.9	7774.7	8080.1	8835.7	10309.1
42.5°	10819.6	10897.6	10273.5	8570.5	8089.0	8040.0	8624.0	8777.8	8793.4	8920.5	10572.1
45°	10895.3	10859.7	10052.8	8661.9	8637.4	9410.8	9941.3	10144.2	9502.2	9076.5	10639.0
47.5°	10545.4	10592.2	9727.3	8581.6	9357.3	10449.5	11136.1	11512.8	10030.5	8940.5	10474.1
50°	10262.3	10202.1	9622.6	8523.7	9551.3	10939.9	11998.7	12083.4	10516.4	9107.7	10293.5
52.5°	10318.0	10355.9	9789.8	8677.5	9555.7	10968.9	12132.4	12074.5	10532.0	9069.8	10228.9
55°	10436.2	10269.0	9718.4	8338.7	8916.0	10159.8	10768.3	10679.1	9720.7	8666.3	10070.6
57.5°	9005.2	9263.7	8936.1	7444.9	7317.8	7654.4	7643.2	7917.4	7250.9	7458.2	9167.9
60°	7308.9	7353.5	7476.1	6368.2	5064.3	4948.4	4787.9	4614.0	4879.3	6377.2	8338.7
62.5°	6428.4	6374.9	6811.8	5793.2	3575.3	2993.5	2966.8	3073.8	3764.8	6082.9	7821.6
65°	4672.0	4738.9	5055.4	4495.9	2683.7	2284.7	2244.6	2561.1	3047.0	4874.8	5969.3
67.5°	2853.1	2982.4	3011.4	2772.9	1821.1	1446.6	1388.7	1676.2	2200.0	3154.0	3499.5
70°	1317.3	1473.4	1620.5	1513.5	1054.3	595.1	561.7	704.4	1110.0	1814.4	1856.8
72.5°	399.0	401.2	561.7	586.2	341.0	133.7	118.1	156.0	376.7	599.6	630.8
75°	29.0	31.2	75.8	86.9	64.6	33.4	35.7	42.4	80.2	133.7	100.3
77.5°	2.2	2.2	2.2	11.1	20.1	22.3	29.0	33.4	42.4	49.0	44.6
80°	2.2	0.0	2.2	8.9	15.6	22.3	26.7	31.2	33.4	37.9	33.4
82.5°	0.0	0.0	0.0	6.7	15.6	22.3	24.5	33.4	37.9	44.6	37.9
85°	0.0	0.0	0.0	6.7	15.6	24.5	22.3	11.1	0.0	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°	5746.4	5746.4	5746.4	5746.4	5746.4	5746.4	5746.4	5746.4	5746.4	5746.4	5746.4
2.5°	6076.2	5989.3	5790.9	5690.6	5454.4	5420.9	5189.1	5151.2	5073.2	5030.8	4928.3
5°	5559.1	5454.4	5131.2	4859.2	4542.7	4322.0	4152.6	3998.8	3909.7	3827.2	3865.1
7.5°	5137.8	4832.5	4473.6	4018.9	3653.3	3417.1	3158.5	2946.7	2821.9	2737.2	2757.3
10°	4696.5	4498.1	3998.8	3488.4	3047.0	2879.9	2677.0	2514.3	2338.2	2186.6	2115.3
12.5°	4558.3	4264.1	3637.7	3118.4	2784.0	2621.3	2389.5	2202.3	1977.1	1792.1	1727.5
15°	4582.8	4299.7	3539.6	2984.6	2590.1	2309.2	2032.8	1801.0	1553.6	1424.3	1357.5
17.5°	4981.8	4491.4	3604.3	2844.2	2320.4	1930.3	1589.3	1295.0	1110.0	976.3	947.3
20°	5472.2	4906.0	3742.5	2741.7	2099.7	1535.8	1161.3	907.2	753.4	731.1	724.4
22.5°	6189.9	5583.6	4038.9	2672.6	1830.0	1197.0	795.8	659.8	617.4	613.0	615.2
25°	7193.0	6432.9	4362.1	2614.6	1627.2	922.8	650.9	559.5	546.1	539.4	550.6
27.5°	7627.6	6945.6	4533.8	2489.8	1442.2	831.4	642.0	555.0	517.1	506.0	512.7
30°	8164.8	7286.6	4803.5	2275.8	1170.2	684.3	599.6	604.1	586.2	530.5	512.7
32.5°	8878.1	7712.3	4939.5	2124.2	1045.4	566.2	439.1	403.4	450.3	459.2	474.8
35°	9335.0	8144.8	5008.6	2035.1	980.8	483.7	372.2	338.8	327.7	329.9	338.8
37.5°	10184.3	8728.8	5095.5	1941.5	931.7	421.3	336.6	305.4	289.8	289.8	298.7
40°	10692.5	9192.4	5213.6	1890.2	882.7	383.4	305.4	278.6	265.3	265.3	269.7
42.5°	10819.6	9422.0	5173.5	1872.4	827.0	374.5	278.6	258.6	243.0	240.7	238.5
45°	11046.9	9771.9	5180.2	1852.3	769.0	341.0	263.0	240.7	218.4	216.2	214.0
47.5°	11296.6	10023.8	5193.6	1774.3	713.3	285.3	274.2	222.9	196.2	191.7	191.7
50°	11082.6	10224.4	5309.5	1696.3	642.0	231.8	269.7	209.5	173.9	167.2	169.4
52.5°	11109.3	10460.7	5554.7	1587.0	552.8	185.0	218.4	198.4	158.3	147.1	149.3
55°	10681.4	10211.0	5588.1	1471.1	432.4	142.7	167.2	173.9	133.7	129.3	129.3
57.5°	9194.6	8646.3	4930.5	1192.5	285.3	118.1	120.4	151.6	115.9	111.4	113.7
60°	7868.4	6941.1	3967.6	786.8	178.3	93.6	86.9	153.8	102.5	100.3	107.0
62.5°	7172.9	5704.0	3009.1	488.2	122.6	71.3	60.2	124.8	89.2	89.2	98.1
65°	5182.4	3831.6	1749.8	256.3	86.9	55.7	44.6	71.3	73.6	75.8	80.2
67.5°	3209.8	1934.8	737.8	124.8	58.0	37.9	29.0	44.6	49.0	49.0	53.5
70°	1584.8	771.2	245.2	71.3	44.6	31.2	20.1	24.5	24.5	22.3	24.5
72.5°	490.4	231.8	62.4	44.6	31.2	20.1	11.1	8.9	4.5	0.0	2.2
75°	55.7	44.6	40.1	31.2	20.1	8.9	2.2	0.0	0.0	0.0	0.0
77.5°	33.4	37.9	37.9	31.2	20.1	6.7	0.0	0.0	0.0	0.0	0.0
80°	26.7	29.0	31.2	29.0	17.8	8.9	0.0	0.0	0.0	0.0	0.0
82.5°	33.4	37.9	42.4	37.9	24.5	11.1	4.5	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	6.7	2.2	0.0	0.0	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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	5746.4	5746.4	5746.4	5746.4	5746.4	5746.4	5746.4	5746.4	5746.4	5746.4	5746.4
2.5°	4886.0	4836.9	4906.0	4803.5	4801.3	4803.5	4774.5	4747.8	4790.1	4903.8	4914.9
5°	3729.1	3833.9	3867.3	3976.5	3916.4	3827.2	3845.0	3784.8	3932.0	3996.6	3945.3
7.5°	2714.9	2708.2	2933.4	2946.7	2975.7	2977.9	2973.5	2855.3	2735.0	2761.7	2842.0
10°	2106.4	1992.7	2101.9	2090.8	2162.1	2142.1	2171.0	2044.0	2086.3	2086.3	2137.6
12.5°	1716.3	1596.0	1575.9	1546.9	1575.9	1587.0	1598.2	1573.7	1645.0	1678.4	1714.1
15°	1310.7	1243.8	1225.9	1170.2	1179.1	1210.3	1237.1	1248.2	1225.9	1277.2	1281.7
17.5°	951.8	949.6	960.7	958.5	949.6	942.9	940.6	911.7	902.7	907.2	925.0
20°	722.2	740.0	777.9	815.8	835.9	811.4	777.9	728.9	708.8	713.3	715.5
22.5°	617.4	644.2	695.4	737.8	757.9	713.3	653.1	610.7	601.8	599.6	597.4
25°	559.5	590.7	628.6	642.0	639.7	613.0	568.4	550.6	546.1	541.6	521.6
27.5°	528.3	539.4	546.1	561.7	568.4	550.6	539.4	512.7	508.2	508.2	494.8
30°	510.4	503.8	512.7	501.5	510.4	497.1	499.3	499.3	488.2	492.6	492.6
32.5°	474.8	477.0	477.0	454.7	461.4	445.8	461.4	474.8	477.0	479.2	497.1
35°	347.7	387.8	407.9	407.9	414.6	403.4	401.2	385.6	365.6	345.5	336.6
37.5°	305.4	321.0	347.7	363.3	374.5	365.6	345.5	321.0	309.8	300.9	292.0
40°	271.9	285.3	303.1	321.0	343.3	332.1	300.9	289.8	276.4	276.4	267.5
42.5°	245.2	251.9	263.0	289.8	314.3	292.0	269.7	260.8	254.1	251.9	249.6
45°	220.7	222.9	234.0	256.3	285.3	263.0	240.7	229.6	231.8	234.0	231.8
47.5°	198.4	202.8	209.5	236.3	254.1	243.0	218.4	211.8	211.8	211.8	214.0
50°	171.6	182.8	196.2	218.4	231.8	225.1	205.1	196.2	191.7	191.7	193.9
52.5°	153.8	162.7	180.5	207.3	225.1	214.0	193.9	180.5	171.6	169.4	173.9
55°	133.7	149.3	178.3	198.4	222.9	211.8	189.5	173.9	158.3	156.0	156.0
57.5°	120.4	144.9	171.6	196.2	216.2	207.3	189.5	169.4	149.3	147.1	147.1
60°	113.7	140.4	167.2	189.5	216.2	202.8	187.2	164.9	142.7	142.7	140.4
62.5°	107.0	131.5	158.3	180.5	207.3	196.2	180.5	158.3	136.0	136.0	131.5
65°	89.2	113.7	131.5	151.6	180.5	169.4	153.8	138.2	120.4	115.9	118.1
67.5°	62.4	78.0	95.8	115.9	133.7	129.3	122.6	111.4	95.8	93.6	91.4
70°	31.2	42.4	58.0	78.0	93.6	89.2	84.7	75.8	66.9	64.6	64.6
72.5°	4.5	13.4	24.5	35.7	49.0	51.3	49.0	46.8	44.6	42.4	44.6
75°	0.0	0.0	0.0	8.9	20.1	24.5	29.0	33.4	33.4	29.0	35.7
77.5°	0.0	0.0	0.0	0.0	2.2	11.1	22.3	29.0	35.7	31.2	42.4
80°	0.0	0.0	0.0	0.0	2.2	13.4	22.3	31.2	35.7	31.2	44.6
82.5°	0.0	0.0	0.0	0.0	2.2	15.6	22.3	29.0	33.4	31.2	40.1
85°	0.0	0.0	0.0	0.0	6.7	13.4	8.9	4.5	2.2	2.2	6.7
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



REPORT NUMBER: P529119

CATALOG NUMBER: GALN-SA4B-730-U-SLL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5746.4	5746.4	5746.4	5746.4	5746.4	5746.4	5746.4	5746.4	5746.4	5746.4
2.5°	4977.4	5135.6	5305.0	5369.7	5570.3	5721.8	5824.4	6045.0	6078.5	6080.7
5°	3998.8	4079.1	4368.8	4504.8	4803.5	5035.3	5282.7	5639.4	5877.9	5895.7
7.5°	2842.0	3064.9	3187.5	3541.9	3909.7	4273.0	4640.8	5055.4	5331.8	5338.5
10°	2287.0	2431.8	2650.3	2915.5	3225.4	3595.4	4085.8	4567.2	4848.1	4917.2
12.5°	1841.2	2095.3	2344.9	2619.1	2855.3	3134.0	3662.2	4304.2	4536.0	4674.2
15°	1417.6	1649.5	1943.7	2264.7	2532.1	2904.4	3506.2	4239.6	4629.6	4676.4
17.5°	1045.4	1252.7	1524.6	1827.8	2229.0	2757.3	3533.0	4567.2	4935.0	5013.0
20°	751.2	871.5	1085.5	1437.7	1948.1	2585.6	3559.7	4899.3	5458.8	5592.6
22.5°	595.1	644.2	784.6	1096.7	1633.9	2405.1	3749.2	5534.6	6178.8	6372.7
25°	517.1	543.9	610.7	864.9	1435.5	2387.3	4052.3	6296.9	7137.3	7277.7
27.5°	499.3	503.8	561.7	793.5	1328.5	2269.1	4168.2	6838.6	7734.6	7877.3
30°	526.0	597.4	601.8	670.9	1130.1	2035.1	4228.4	7362.4	8240.6	8345.4
32.5°	454.7	432.4	448.0	519.4	994.1	1899.1	4342.1	7819.3	8817.9	8891.5
35°	316.5	332.1	367.8	450.3	869.3	1756.5	4371.1	8323.1	9366.3	9442.0
37.5°	292.0	300.9	329.9	383.4	764.5	1676.2	4330.9	8690.9	9934.6	10039.4
40°	271.9	283.1	298.7	347.7	686.5	1587.0	4275.2	9023.0	10282.4	10540.9
42.5°	256.3	265.3	278.6	332.1	619.7	1497.9	4197.2	9491.1	10594.4	10819.6
45°	238.5	251.9	267.5	323.2	581.8	1437.7	4139.2	9462.1	10775.0	10895.3
47.5°	220.7	243.0	260.8	300.9	570.6	1408.7	4163.8	9352.9	10627.9	10545.4
50°	202.8	231.8	263.0	249.6	543.9	1350.8	4192.7	9502.2	10277.9	10262.3
52.5°	187.2	220.7	245.2	205.1	483.7	1295.0	4473.6	9698.4	10525.3	10318.0
55°	164.9	198.4	196.2	164.9	392.3	1252.7	4694.3	9702.8	10358.2	10436.2
57.5°	149.3	176.1	153.8	138.2	289.8	1047.6	4335.4	8135.8	8867.0	9005.2
60°	138.2	171.6	115.9	109.2	189.5	755.6	3784.8	6301.4	7048.1	7308.9
62.5°	127.1	162.7	91.4	89.2	131.5	537.2	3111.7	5273.8	6074.0	6428.4
65°	111.4	115.9	73.6	69.1	93.6	289.8	1894.6	3631.0	4540.5	4672.0
67.5°	91.4	89.2	60.2	55.7	62.4	140.4	835.9	1818.9	2632.4	2853.1
70°	73.6	73.6	51.3	44.6	44.6	64.6	218.4	724.4	1190.3	1317.3
72.5°	53.5	55.7	40.1	35.7	33.4	31.2	35.7	144.9	312.1	399.0
75°	46.8	49.0	40.1	31.2	24.5	20.1	15.6	13.4	17.8	29.0
77.5°	51.3	51.3	42.4	29.0	22.3	15.6	8.9	4.5	4.5	2.2
80°	64.6	66.9	55.7	37.9	26.7	17.8	11.1	4.5	2.2	2.2
82.5°	69.1	75.8	62.4	46.8	33.4	20.1	11.1	2.2	0.0	0.0
85°	17.8	29.0	49.0	42.4	33.4	20.1	11.1	2.2	0.0	0.0
87.5°	0.0	2.2	6.7	6.7	8.9	8.9	6.7	2.2	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)