

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: P454204

Luminaire Tested: **GALN-SA5B-740-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454204  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5B-740-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20464 lumens  
Efficiency: N/A  
Efficacy: 100.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

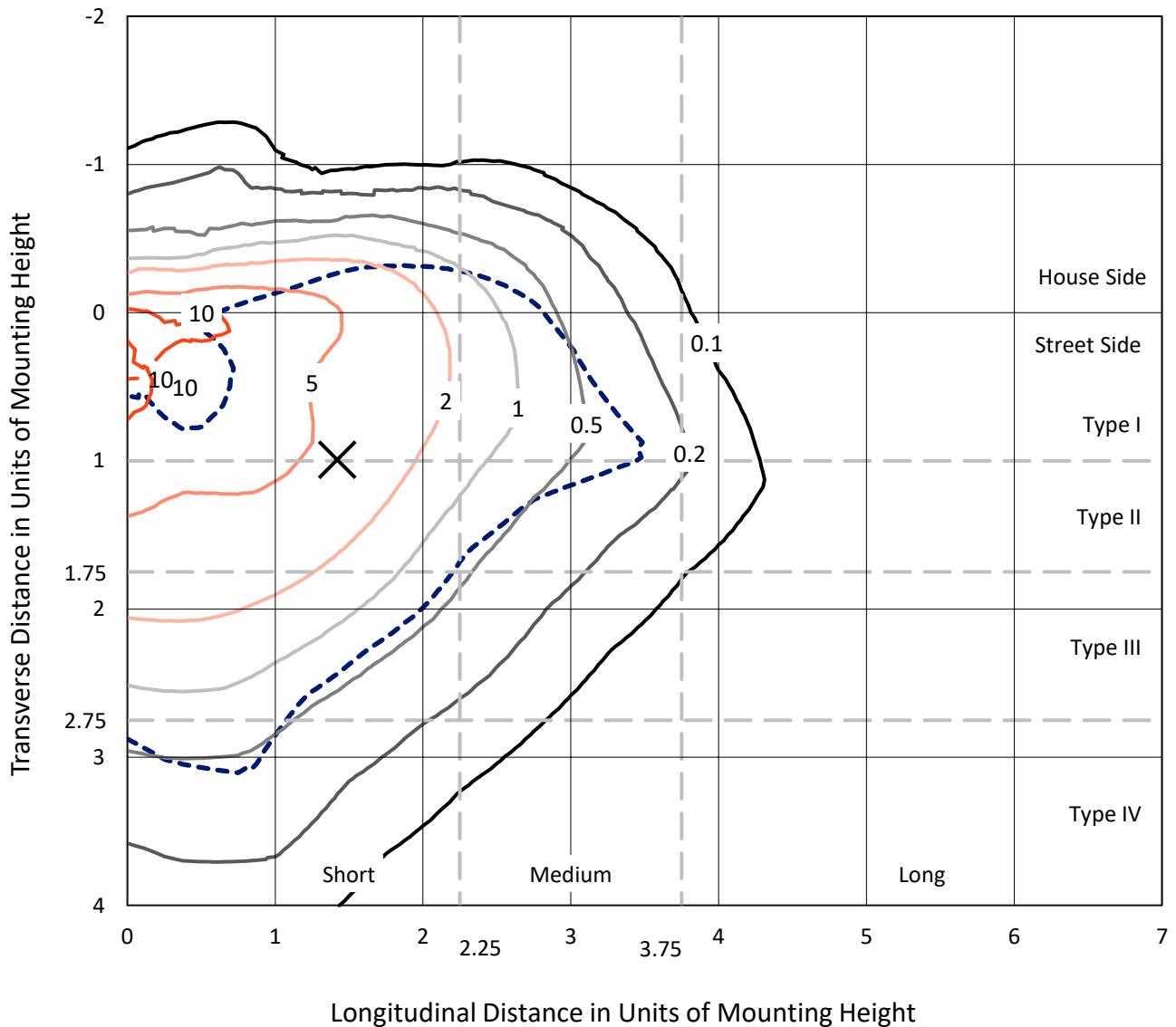
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

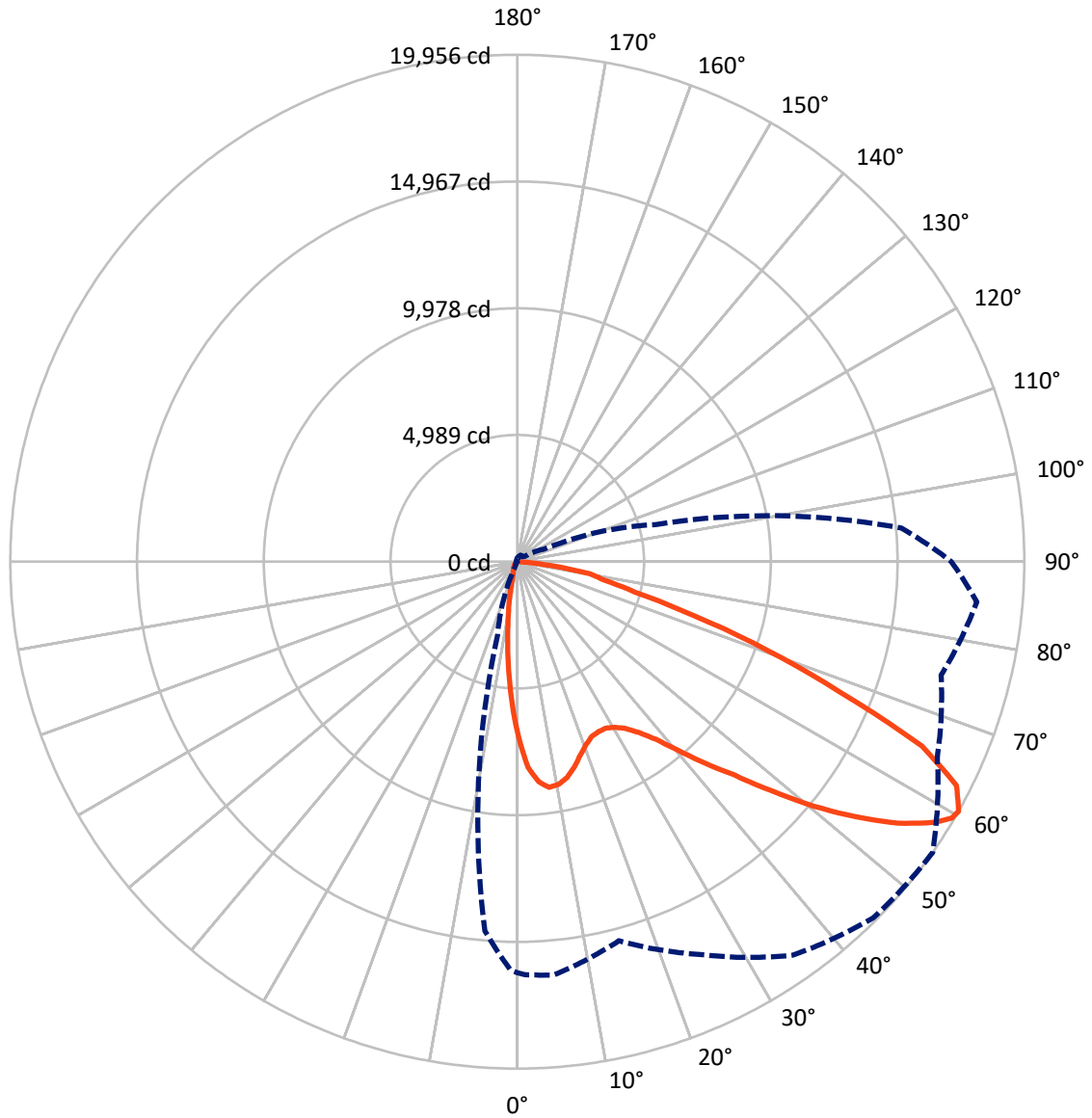
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

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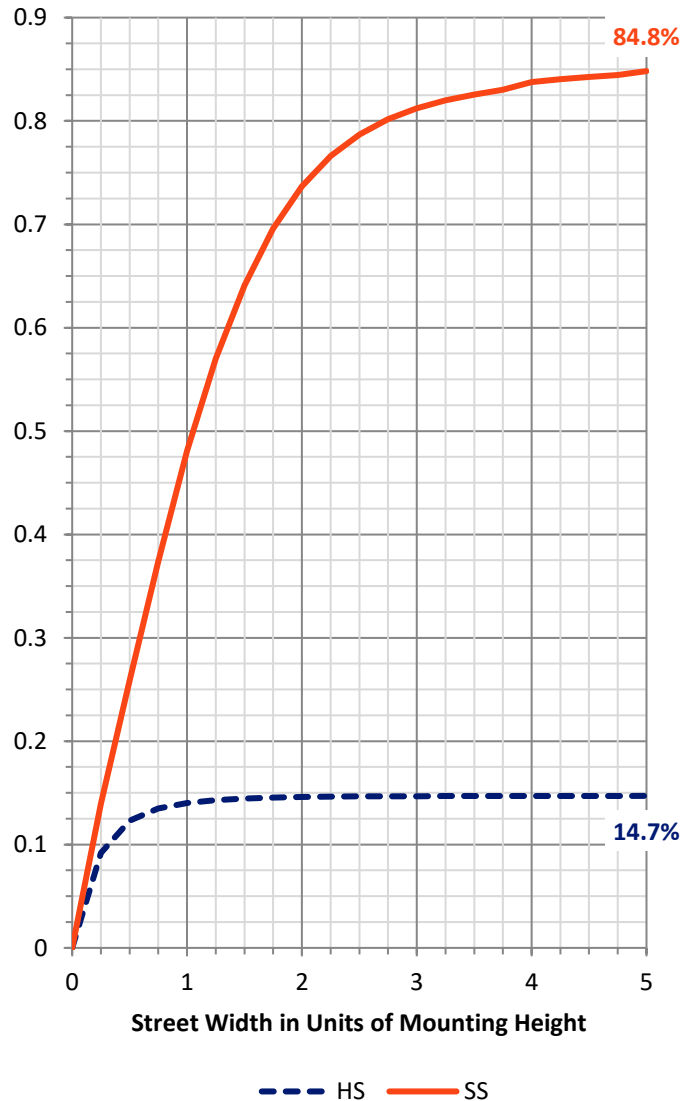
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3037.0	0.0	3037.0
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	17427.0	0.0	17427.0
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	20464.0	0.0	20464.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	513.1	2.5
10°-20°	1010.4	4.9
20°-30°	1495.6	7.3
30°-40°	2229.4	10.9
40°-50°	3264.9	16.0
50°-60°	4713.5	23.0
60°-70°	4958.4	24.2
70°-80°	2039.7	10.0
80°-90°	238.9	1.2
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°	20464.0	100.0
0°-180°	20464.0	100.0



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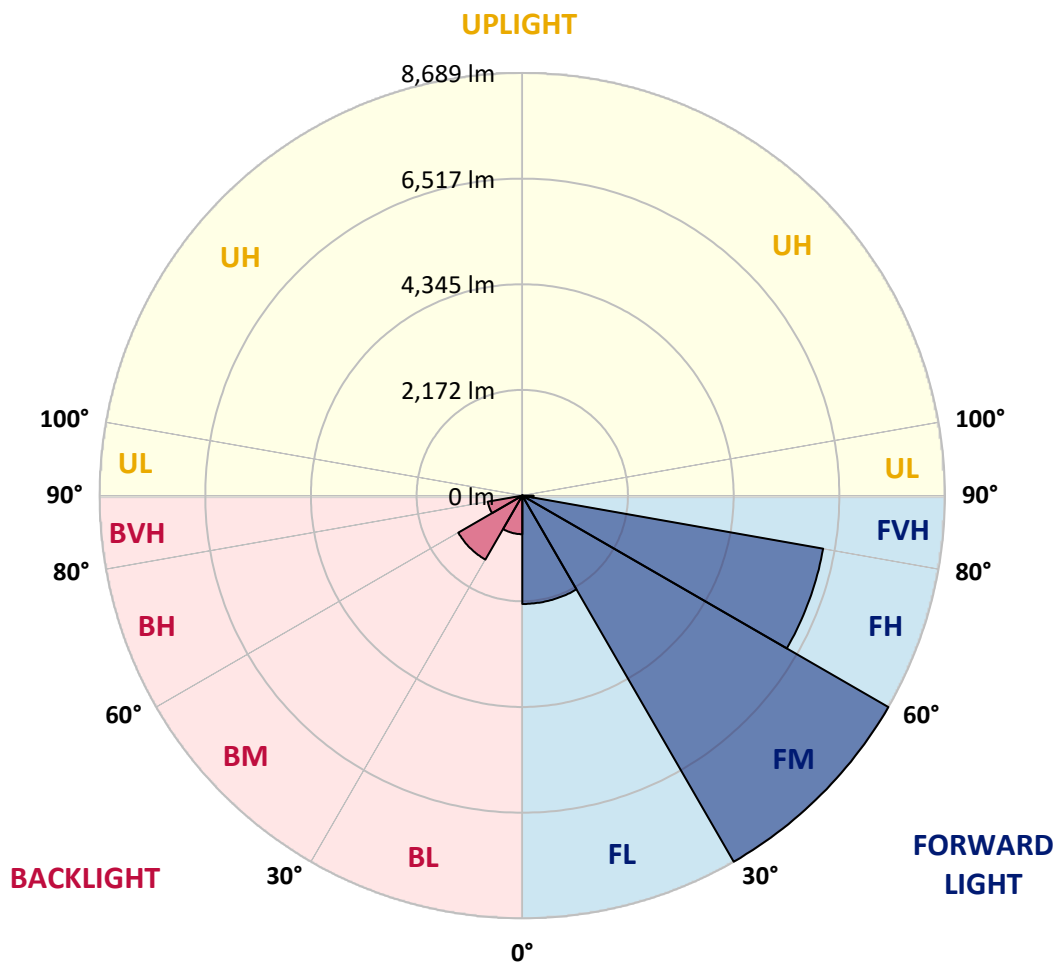
CATALOG NUMBER: GALN-SA5B-740-U-SLL-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2226.8	10.9			
FM	(30°-60°)	8689.0	42.5			
FH	(60°-80°)	6279.3	30.7			G3/7500
FVH	(80°-90°)	231.9	1.1			G3/500
BL	(0°-30°)	792.4	3.9	B2/1000		
BM	(30°-60°)	1518.8	7.4	B2/2500		
BH	(60°-80°)	718.8	3.5	B2/1000		G2/1000
BVH	(80°-90°)	7.0	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-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6929.1	6929.1	6929.1	6929.1	6929.1	6929.1	6929.1	6929.1	6929.1	6929.1	6929.1
2.5°	7570.1	7557.5	7669.4	7852.1	8036.4	8132.5	8113.6	8105.7	7952.9	7841.1	7606.4
5°	7554.4	7619.0	7819.0	8313.6	8688.5	8869.6	8923.2	8697.9	8400.2	7968.6	7436.2
7.5°	7102.3	7182.7	7508.7	8282.1	8948.4	9342.2	9328.0	8967.3	8353.0	7685.1	6925.9
10°	6541.6	6636.1	7018.8	7957.6	8822.4	9342.2	9370.5	8913.7	8149.8	7292.9	6494.3
12.5°	6146.2	6258.0	6681.8	7655.2	8497.9	9009.8	9042.9	8712.1	7997.0	7141.7	6259.6
15°	6012.3	6117.9	6547.9	7502.4	8152.9	8428.6	8420.7	8386.1	7937.1	7177.9	6272.2
17.5°	6242.3	6328.9	6814.1	7571.7	7830.0	7801.7	7842.6	8009.6	7949.7	7481.9	6669.2
20°	6836.1	6924.3	7445.7	7784.4	7582.7	7403.2	7422.1	7700.9	8066.3	8053.7	7289.8
22.5°	7653.6	7803.3	8275.8	8197.0	7549.7	7155.9	7116.5	7478.8	8264.8	8712.1	8127.7
25°	8688.5	8839.7	9208.3	8855.5	7711.9	7097.6	7061.4	7411.0	8505.8	9354.8	9071.2
27.5°	9558.0	9673.0	10040.0	9496.5	7951.3	7122.8	7062.9	7420.5	8701.1	9901.3	9866.7
30°	10254.2	10339.2	10555.0	9795.8	8157.7	7233.1	7163.8	7559.1	8787.7	10167.5	10510.9
32.5°	10814.9	10958.3	11026.0	10115.6	8453.8	7441.0	7322.8	7825.3	8998.8	10496.8	11186.7
35°	11456.0	11621.4	11534.8	10421.1	8844.4	7765.5	7620.5	8256.9	9318.5	10800.8	11971.1
37.5°	12268.8	12459.4	12120.7	10742.5	9257.1	8253.7	8186.0	8863.3	9803.7	11235.5	12812.2
40°	13109.9	13220.2	12689.4	11133.1	9764.3	8964.1	9028.7	9764.3	10438.5	11756.9	13706.9
42.5°	13766.7	13870.7	13273.7	11460.7	10282.5	9806.8	10076.2	10851.2	11166.2	12290.8	14374.8
45°	14269.2	14357.4	13678.5	11818.3	10981.9	11027.6	11536.3	11971.1	11895.5	12616.9	14889.8
47.5°	14659.9	14735.5	13990.4	12202.6	12029.4	12520.8	13298.9	13483.2	12651.5	12969.7	15356.1
50°	14820.5	14842.6	14088.1	12692.5	13218.6	14423.6	15234.8	15122.9	13517.9	13361.9	15852.2
52.5°	15030.0	15025.3	14366.9	13158.7	14337.0	16124.7	16934.4	16680.8	14497.6	13949.5	16409.8
55°	15579.7	15586.0	14963.9	13820.3	15289.9	17498.3	18364.6	18180.3	15530.9	14941.8	17060.4
57.5°	16247.6	16271.2	15812.9	14593.7	16200.3	18493.8	19432.5	19361.7	16928.1	16046.0	17674.7
59°	16334.2	16381.5	16214.5	15138.7	16740.6	18799.3	19798.0	19867.3	17676.3	16773.7	18007.0
60°	16176.7	16255.5	16331.1	15447.4	17057.2	18909.6	19820.0	19955.5	18238.6	17268.3	18158.2
62.5°	15490.0	15614.4	15994.0	16397.2	17452.6	18566.2	19115.9	19399.5	18934.8	18567.8	18172.4
65°	14590.5	14655.1	15203.3	16565.8	16685.5	16962.7	17132.8	17496.7	18098.4	19068.7	17521.9
67.5°	13116.2	13306.8	13977.8	15587.6	14422.0	14094.4	14051.9	13689.6	15252.1	17874.7	15918.4
70°	10835.4	10920.5	11747.4	12779.1	10884.2	10380.2	10581.8	10446.3	11823.0	15387.6	12812.2
72.5°	8193.9	8386.1	9194.1	10186.4	7406.3	6752.6	7308.7	7258.3	8880.7	12366.4	8801.9
75°	5829.6	5954.0	6984.2	7971.8	5186.9	4394.6	4594.7	4782.1	6199.8	9764.3	5201.1
77.5°	4005.6	4112.7	4886.1	5272.0	3783.5	3624.4	3315.7	3496.8	4062.3	5793.4	2830.5
80°	2416.3	2411.5	2920.3	3014.8	2635.2	3060.5	2567.5	2882.5	2455.6	2479.3	1096.3
82.5°	1568.8	1553.1	1786.2	1946.9	1466.5	1542.1	1034.9	1491.7	1600.3	691.5	346.5
85°	702.5	732.4	858.5	1132.5	642.7	341.8	211.1	458.4	682.0	348.1	0.0
87.5°	72.5	56.7	151.2	275.7	88.2	9.5	31.5	15.8	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°	6929.1	6929.1	6929.1	6929.1	6929.1	6929.1	6929.1	6929.1	6929.1	6929.1	6929.1
2.5°	7497.7	7406.3	7133.8	6878.6	6659.7	6391.9	6218.7	5946.2	5780.8	5730.4	5738.2
5°	7196.8	6933.8	6415.6	6001.3	5539.8	5276.7	4876.6	4492.3	4284.4	4207.2	4172.6
7.5°	6566.8	6284.8	5659.5	5009.0	4514.4	4052.8	3755.1	3416.5	3184.9	2994.3	2961.3
10°	6099.0	5728.8	4953.8	4254.5	3863.8	3517.3	3219.6	2880.9	2608.4	2391.1	2331.2
12.5°	5818.6	5404.3	4539.6	3953.6	3583.5	3227.5	2840.0	2447.8	2169.0	1934.3	1825.6
15°	5768.2	5287.8	4423.0	3737.8	3281.0	2851.0	2335.9	1912.2	1625.5	1403.5	1335.7
17.5°	6072.2	5497.2	4405.7	3512.6	2885.7	2276.1	1740.5	1389.3	1066.4	941.9	893.1
20°	6614.0	5867.4	4404.1	3251.1	2479.3	1753.1	1222.3	905.7	775.0	715.1	686.8
22.5°	7352.8	6371.5	4487.6	3025.8	2057.1	1293.2	872.6	721.4	645.8	597.0	586.0
25°	8255.3	7118.1	4692.4	2873.1	1734.2	1014.4	719.8	617.5	554.5	532.4	522.9
27.5°	9057.1	7833.2	4917.6	2715.5	1502.7	897.8	667.9	565.5	515.1	497.7	483.6
30°	9748.6	8482.1	5026.3	2507.6	1316.8	822.2	677.3	604.9	538.7	486.7	463.1
32.5°	10325.1	8979.9	5097.2	2318.6	1159.3	672.6	535.5	467.8	437.9	419.0	403.2
35°	11046.5	9518.6	5054.6	2211.5	1079.0	612.7	488.3	403.2	352.8	315.0	299.3
37.5°	11802.5	10057.3	4980.6	2123.3	1042.7	568.6	464.7	382.8	327.6	288.3	267.8
40°	12585.4	10556.6	4894.0	2041.4	1009.7	540.3	450.5	365.4	310.3	267.8	245.7
42.5°	13302.1	11043.3	4859.3	1987.8	956.1	545.0	439.5	357.6	293.0	248.9	230.0
45°	13881.7	11504.8	4906.6	1959.5	897.8	537.1	442.6	348.1	278.8	236.3	217.4
47.5°	14500.8	12157.0	5059.4	1931.1	841.1	499.3	466.2	346.5	272.5	228.4	207.9
50°	15220.6	12991.8	5409.0	1861.8	771.8	458.4	496.2	345.0	264.6	218.9	198.5
52.5°	16179.9	13940.0	5769.7	1740.5	671.0	419.0	474.1	340.2	248.9	207.9	187.4
55°	17041.5	14938.7	6075.3	1597.2	543.4	362.3	426.9	319.8	222.1	189.0	170.1
57.5°	17397.5	15502.6	6065.9	1398.7	434.7	318.2	351.3	293.0	193.7	167.0	151.2
59°	17266.7	15431.7	5862.7	1252.2	396.9	294.6	291.4	289.8	181.1	151.2	138.6
60°	17082.4	15173.4	5643.7	1179.8	373.3	278.8	267.8	286.7	170.1	141.8	129.2
62.5°	16376.8	14102.3	4917.6	1056.9	341.8	236.3	214.2	242.6	151.2	122.9	111.8
65°	15354.5	12456.2	4163.1	1022.3	332.4	195.3	178.0	173.3	129.2	104.0	94.5
67.5°	13360.4	10540.9	3372.4	998.6	335.5	163.8	155.9	130.7	107.1	86.6	80.3
70°	10696.8	8219.1	2761.2	971.9	338.7	133.9	130.7	104.0	86.6	72.5	66.2
72.5°	6499.0	4871.9	2173.7	844.3	329.2	107.1	116.6	78.8	63.0	52.0	48.8
75°	4018.2	3334.6	1348.3	656.8	217.4	78.8	81.9	48.8	42.5	33.1	33.1
77.5°	2328.1	2106.0	482.0	236.3	96.1	47.3	36.2	25.2	23.6	14.2	14.2
80°	965.6	773.4	167.0	80.3	52.0	22.1	7.9	1.6	0.0	0.0	0.0
82.5°	282.0	250.4	45.7	36.2	15.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	6929.1	6929.1	6929.1	6929.1	6929.1	6929.1	6929.1	6929.1	6929.1	6929.1	6929.1
2.5°	5604.4	5552.4	5528.8	5609.1	5535.1	5629.6	5557.1	5588.6	5681.5	5722.5	5828.0
5°	4194.6	4141.1	4115.8	4237.1	4230.8	4290.7	4284.4	4339.5	4386.8	4281.2	4389.9
7.5°	2921.9	2885.7	2945.5	3040.0	3140.8	3107.8	3107.8	3033.7	3058.9	3043.2	3038.5
10°	2222.5	2098.1	2066.6	2063.4	2101.2	2109.1	2066.6	1964.2	2002.0	2013.0	2079.2
12.5°	1748.4	1652.3	1505.8	1439.7	1422.4	1436.5	1296.3	1206.6	1249.1	1223.9	1288.5
15°	1253.8	1175.1	1088.4	1014.4	993.9	965.6	812.8	705.7	693.1	697.8	708.8
17.5°	894.7	841.1	841.1	762.4	719.8	634.8	557.6	510.3	505.6	510.3	518.2
20°	660.0	631.6	628.5	608.0	560.8	504.0	450.5	441.0	437.9	445.8	448.9
22.5°	568.6	538.7	513.5	511.9	467.8	420.6	395.4	382.8	384.3	387.5	395.4
25°	508.8	477.3	450.5	434.7	403.2	370.2	346.5	340.2	340.2	345.0	346.5
27.5°	466.2	426.9	403.2	381.2	352.8	324.5	304.0	299.3	296.1	299.3	307.2
30°	436.3	396.9	367.0	333.9	311.9	285.1	267.8	261.5	259.9	261.5	267.8
32.5°	373.3	349.7	326.1	296.1	269.3	252.0	233.1	222.1	222.1	225.2	231.5
35°	282.0	269.3	267.8	259.9	237.8	218.9	196.9	185.9	185.9	192.2	195.3
37.5°	248.9	225.2	222.1	218.9	209.5	184.3	163.8	154.4	152.8	157.5	163.8
40°	226.8	200.0	185.9	182.7	184.3	155.9	133.9	124.4	124.4	126.0	132.3
42.5°	209.5	178.0	152.8	149.6	155.9	130.7	108.7	99.2	99.2	99.2	107.1
45°	195.3	159.1	129.2	113.4	122.9	107.1	88.2	78.8	75.6	78.8	81.9
47.5°	185.9	144.9	113.4	91.4	91.4	85.1	70.9	59.9	56.7	58.3	63.0
50°	178.0	132.3	96.1	74.0	66.2	67.7	53.6	45.7	42.5	42.5	47.3
52.5°	165.4	119.7	83.5	63.0	50.4	45.7	39.4	33.1	31.5	33.1	36.2
55°	149.6	108.7	72.5	52.0	39.4	31.5	28.4	23.6	22.1	23.6	28.4
57.5°	132.3	91.4	58.3	41.0	26.8	20.5	18.9	15.8	12.6	14.2	17.3
59°	121.3	81.9	50.4	33.1	20.5	14.2	14.2	11.0	7.9	9.5	14.2
60°	116.6	75.6	42.5	28.4	17.3	11.0	11.0	7.9	4.7	6.3	11.0
62.5°	99.2	63.0	33.1	17.3	7.9	1.6	4.7	1.6	0.0	1.6	4.7
65°	83.5	50.4	22.1	7.9	0.0	0.0	0.0	0.0	0.0	0.0	1.6
67.5°	69.3	37.8	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	55.1	25.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	37.8	14.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	23.6	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P454204

CATALOG NUMBER: GALN-SA5B-740-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6929.1	6929.1	6929.1	6929.1	6929.1	6929.1	6929.1	6929.1	6929.1	6929.1
2.5°	5834.3	6059.6	6198.2	6459.7	6727.4	6933.8	7192.1	7423.6	7519.7	7570.1
5°	4500.2	4813.6	5079.8	5478.3	5848.5	6299.0	6755.8	7294.5	7500.8	7554.4
7.5°	3158.2	3477.9	3756.7	4218.2	4745.9	5349.2	6032.8	6716.4	7017.3	7102.3
10°	2280.8	2622.6	2962.8	3424.4	3917.4	4571.1	5283.0	6128.9	6475.4	6541.6
12.5°	1439.7	1806.7	2359.6	2929.8	3451.1	3977.2	4722.3	5642.2	6024.9	6146.2
15°	834.8	1108.9	1526.3	2269.8	2932.9	3629.1	4441.9	5459.4	5887.9	6012.3
17.5°	559.2	653.7	940.4	1509.0	2384.8	3307.8	4371.0	5609.1	6083.2	6242.3
20°	471.0	513.5	614.3	919.9	1836.6	3021.1	4389.9	6015.5	6637.7	6836.1
22.5°	414.3	453.6	518.2	661.6	1282.2	2665.1	4479.7	6596.7	7400.0	7653.6
25°	365.4	404.8	461.5	548.1	861.6	2254.0	4676.6	7447.3	8409.7	8688.5
27.5°	324.5	360.7	409.5	483.6	663.1	1795.7	4851.4	8275.8	9331.1	9558.0
30°	286.7	316.6	363.9	420.6	551.3	1384.6	4939.6	9000.4	10002.2	10254.2
32.5°	248.9	277.2	322.9	368.6	453.6	1055.3	4878.2	9532.8	10654.3	10814.9
35°	212.6	242.6	280.4	322.9	392.2	852.2	4571.1	10131.3	11330.0	11456.0
37.5°	182.7	207.9	247.3	280.4	354.4	682.0	4199.3	10670.0	12087.6	12268.8
40°	154.4	179.6	218.9	248.9	326.1	537.1	3863.8	11268.6	12886.2	13109.9
42.5°	126.0	155.9	190.6	239.4	280.4	409.5	3457.4	11753.7	13486.4	13766.7
45°	100.8	133.9	171.7	237.8	244.1	311.9	3065.2	12131.8	14017.2	14269.2
47.5°	80.3	113.4	165.4	222.1	200.0	247.3	2841.6	12527.1	14458.2	14659.9
50°	64.6	94.5	173.3	195.3	167.0	209.5	2835.3	12968.2	14686.6	14820.5
52.5°	52.0	77.2	146.5	149.6	141.8	184.3	3005.4	13464.3	14919.8	15030.0
55°	44.1	64.6	96.1	110.3	127.6	167.0	3133.0	14228.3	15475.8	15579.7
57.5°	34.7	55.1	74.0	88.2	113.4	152.8	3150.3	14817.4	16179.9	16247.6
59°	29.9	47.3	66.2	78.8	104.0	143.3	3079.4	14853.6	16225.5	16334.2
60°	25.2	42.5	58.3	74.0	96.1	135.5	3002.2	14590.5	16055.4	16176.7
62.5°	18.9	33.1	42.5	59.9	78.8	116.6	2636.8	13672.2	15404.9	15490.0
65°	12.6	23.6	31.5	44.1	61.4	100.8	2148.5	12481.4	14400.0	14590.5
67.5°	7.9	17.3	25.2	33.1	50.4	85.1	1531.0	10703.1	12993.4	13116.2
70°	4.7	11.0	18.9	26.8	39.4	67.7	908.9	8460.1	10810.2	10835.4
72.5°	3.2	7.9	12.6	18.9	31.5	61.4	441.0	5514.6	7893.0	8193.9
75°	1.6	4.7	7.9	14.2	25.2	50.4	211.1	3684.3	5743.0	5829.6
77.5°	0.0	1.6	4.7	9.5	18.9	39.4	122.9	2419.4	3915.8	4005.6
80°	0.0	0.0	3.2	7.9	14.2	25.2	74.0	1427.1	2372.2	2416.3
82.5°	0.0	0.0	1.6	6.3	9.5	18.9	37.8	626.9	1553.1	1568.8
85°	0.0	0.0	1.6	6.3	7.9	12.6	14.2	85.1	689.9	702.5
87.5°	0.0	0.0	1.6	7.9	7.9	7.9	7.9	4.7	58.3	72.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)