

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: P454900

Luminaire Tested: **GALN-SA6A-740-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454900  
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-SA6A-740-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 615mA 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: 19475 lumens  
Efficiency: N/A  
Efficacy: 107.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

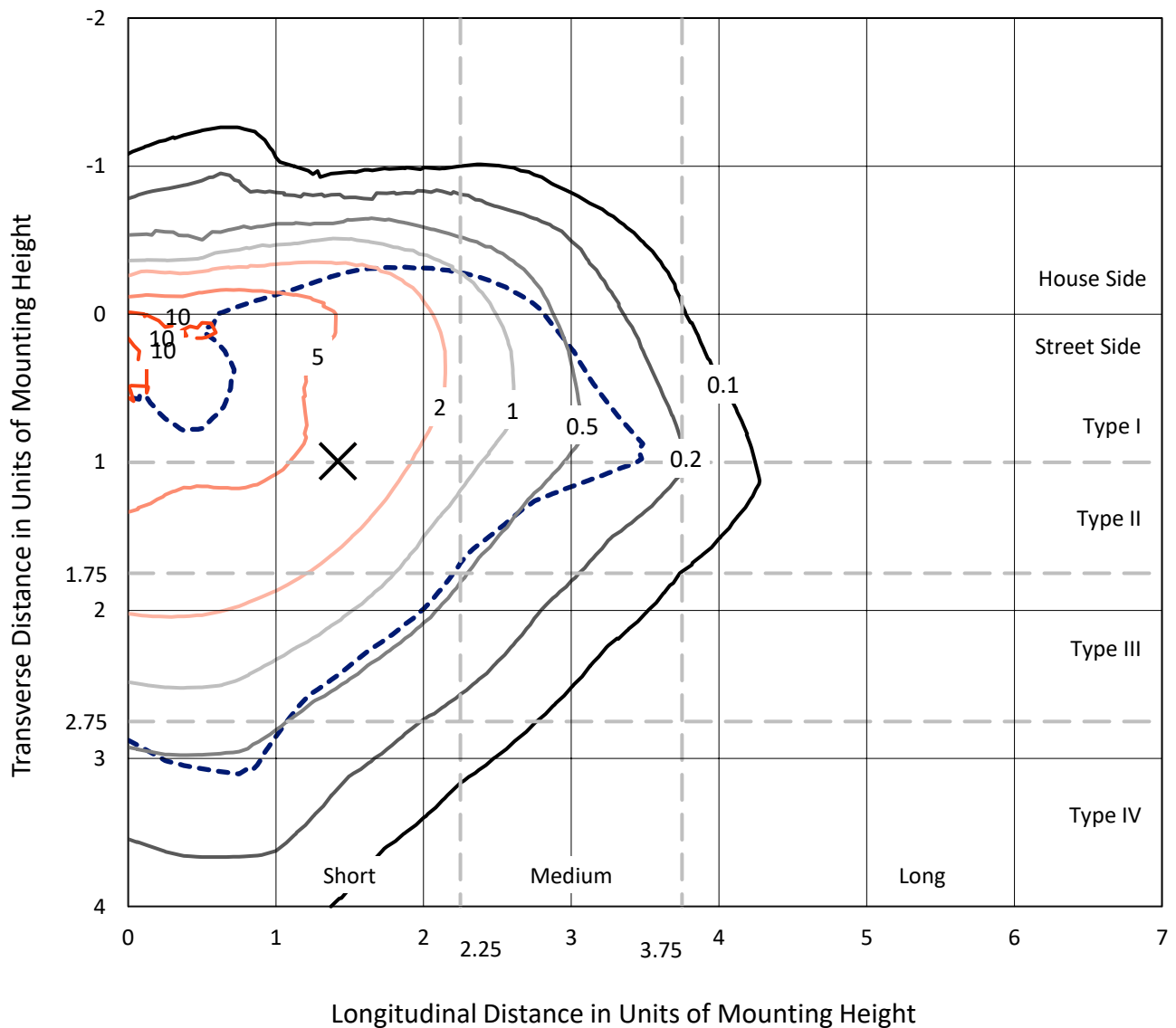
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

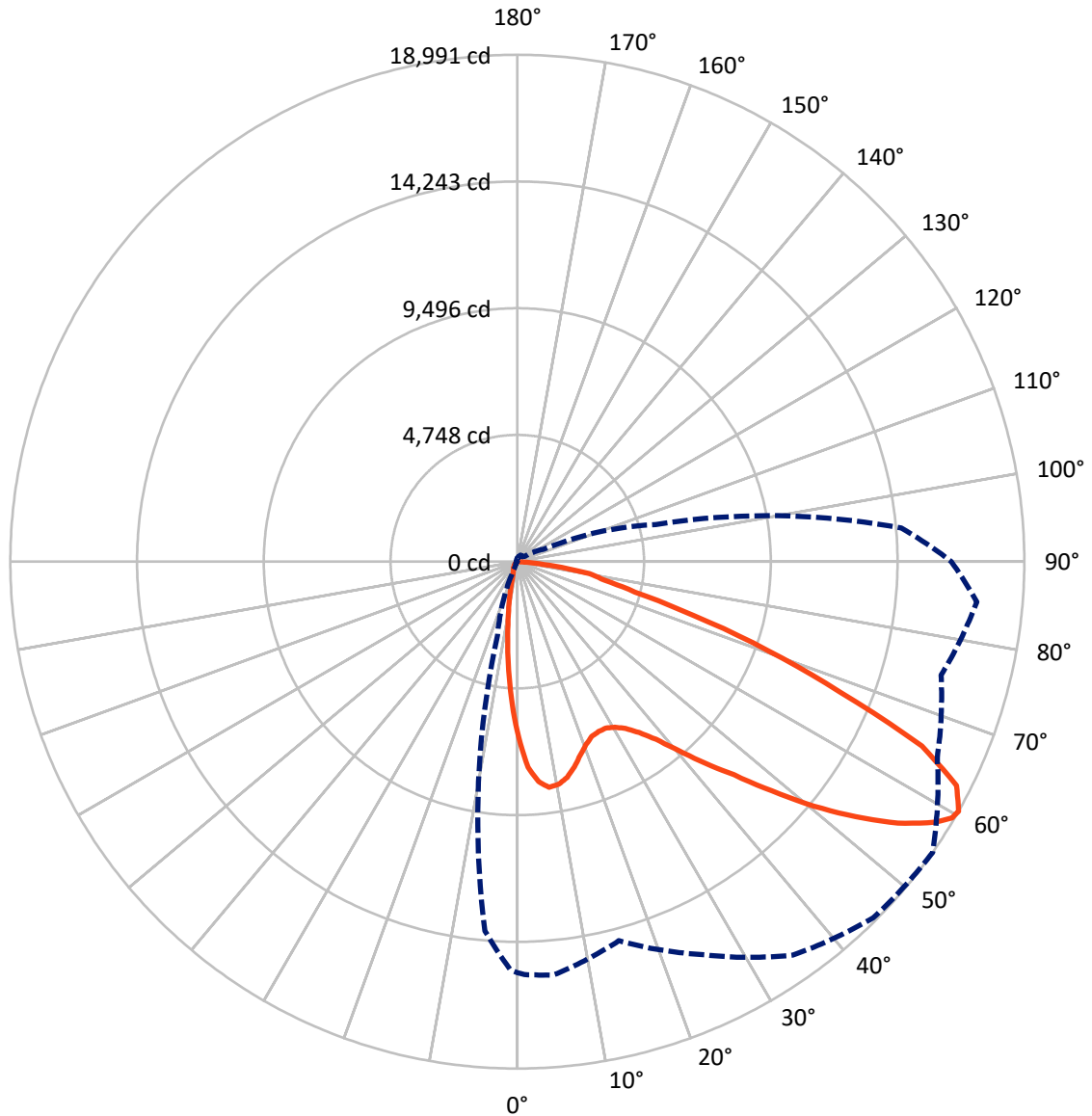
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 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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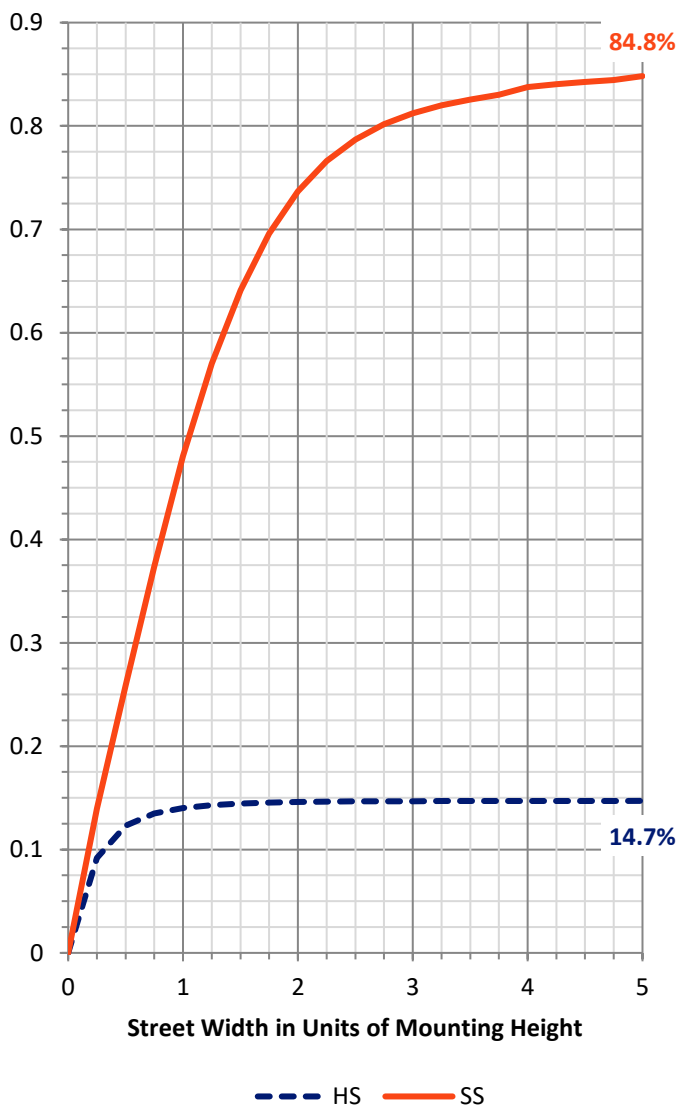
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2890.3	0.0	2890.3
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	16584.7	0.0	16584.7
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	19475.0	0.0	19475.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	488.3	2.5
10°-20°	961.6	4.9
20°-30°	1423.3	7.3
30°-40°	2121.6	10.9
40°-50°	3107.1	16.0
50°-60°	4485.7	23.0
60°-70°	4718.8	24.2
70°-80°	1941.1	10.0
80°-90°	227.3	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°	19475.0	100.0
0°-180°	19475.0	100.0

**Coefficient of Utilization**



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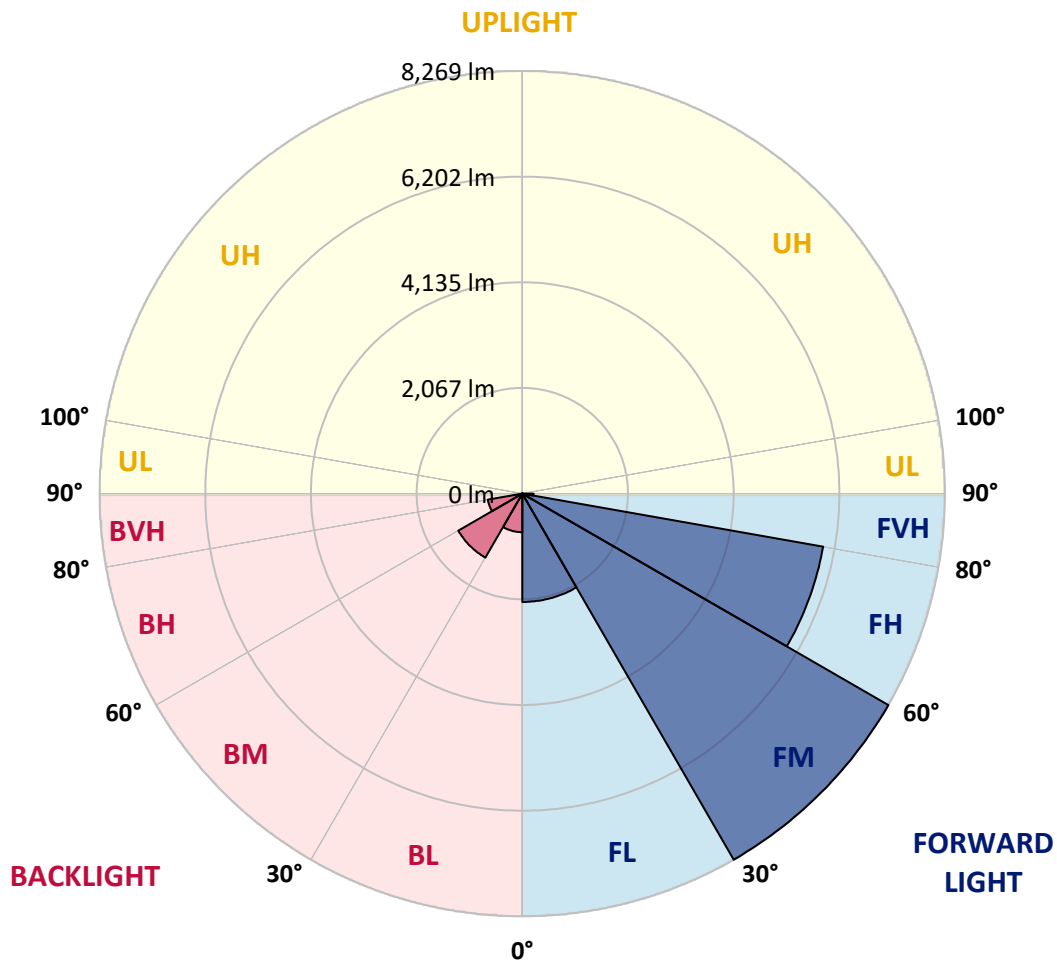
CATALOG NUMBER: GALN-SA6A-740-U-SLL-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2119.2	10.9			
FM (30°-60°)	8269.1	42.5			
FH (60°-80°)	5975.8	30.7			G3/7500
FVH (80°-90°)	220.7	1.1			G2/225
BL (0°-30°)	754.1	3.9	B2/1000		
BM (30°-60°)	1445.4	7.4	B2/2500		
BH (60°-80°)	684.1	3.5	B2/1000		G2/1000
BVH (80°-90°)	6.7	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°	6594.2	6594.2	6594.2	6594.2	6594.2	6594.2	6594.2	6594.2	6594.2	6594.2	6594.2
2.5°	7204.3	7192.3	7298.7	7472.6	7648.0	7739.4	7721.4	7713.9	7568.5	7462.1	7238.8
5°	7189.3	7250.8	7441.1	7911.8	8268.6	8441.0	8491.9	8277.6	7994.3	7583.5	7076.9
7.5°	6759.1	6835.5	7145.8	7881.8	8515.9	8890.7	8877.2	8533.9	7949.3	7313.7	6591.2
10°	6225.4	6315.4	6679.6	7573.0	8396.0	8890.7	8917.7	8482.9	7755.9	6940.5	6180.5
12.5°	5849.2	5955.6	6358.8	7285.2	8087.2	8574.4	8605.9	8291.1	7610.5	6796.5	5957.1
15°	5721.8	5822.2	6231.4	7139.8	7758.9	8021.2	8013.8	7980.8	7553.6	6831.0	5969.1
17.5°	5940.6	6023.1	6484.8	7205.8	7451.6	7424.6	7463.6	7622.5	7565.5	7120.3	6346.8
20°	6505.7	6589.7	7085.9	7408.1	7216.3	7045.4	7063.4	7328.7	7676.5	7664.5	6937.5
22.5°	7283.7	7426.1	7875.8	7800.9	7184.8	6810.0	6772.6	7117.3	7865.3	8291.1	7734.9
25°	8268.6	8412.5	8763.3	8427.5	7339.2	6754.6	6720.1	7052.9	8094.7	8902.7	8632.8
27.5°	9096.0	9205.5	9554.7	9037.6	7567.0	6778.6	6721.6	7061.9	8280.6	9422.8	9389.9
30°	9758.6	9839.6	10044.9	9322.4	7763.4	6883.5	6817.5	7193.8	8363.0	9676.2	10002.9
32.5°	10292.3	10428.7	10493.1	9626.7	8045.2	7081.4	6968.9	7447.1	8563.9	9989.5	10646.0
35°	10902.4	11059.8	10977.3	9917.5	8417.0	7390.2	7252.3	7857.9	8868.2	10278.8	11392.5
37.5°	11675.9	11857.2	11534.9	10223.3	8809.7	7854.9	7790.4	8435.0	9329.9	10692.5	12193.0
40°	12476.3	12581.3	12076.1	10595.1	9292.4	8530.9	8592.4	9292.4	9934.0	11188.7	13044.5
42.5°	13101.4	13200.4	12632.2	10906.9	9785.6	9332.9	9589.2	10326.7	10626.5	11696.8	13680.0
45°	13579.6	13663.6	13017.5	11247.1	10451.2	10494.6	10978.8	11392.5	11320.6	12007.1	14170.2
47.5°	13951.4	14023.3	13314.3	11612.9	11448.0	11915.7	12656.2	12831.6	12040.1	12342.9	14613.9
50°	14104.3	14125.2	13407.2	12079.1	12579.8	13726.5	14498.5	14392.1	12864.6	12716.2	15086.1
52.5°	14303.6	14299.1	13672.5	12522.8	13644.1	15345.4	16115.9	15874.6	13797.0	13275.3	15616.8
55°	14826.8	14832.8	14240.7	13152.4	14551.0	16652.6	17477.1	17301.7	14780.3	14219.7	16235.9
57.5°	15462.4	15484.9	15048.6	13888.4	15417.4	17600.0	18493.4	18425.9	16109.9	15270.5	16820.5
59°	15544.8	15589.8	15430.9	14407.1	15931.6	17890.8	18841.2	18907.1	16822.0	15963.0	17136.8
60°	15394.9	15469.9	15541.8	14700.9	16232.9	17995.7	18862.1	18991.1	17357.1	16433.7	17280.7
62.5°	14741.3	14859.8	15221.0	15604.8	16609.1	17668.9	18192.1	18461.9	18019.7	17670.4	17294.2
65°	13885.4	13946.9	14468.5	15765.2	15879.1	16142.9	16304.8	16651.1	17223.7	18147.1	16675.1
67.5°	12482.3	12663.7	13302.3	14834.3	13725.0	13413.2	13372.7	13028.0	14515.0	17010.9	15149.1
70°	10311.7	10392.7	11179.7	12161.5	10358.2	9878.5	10070.4	9941.5	11251.6	14643.9	12193.0
72.5°	7797.9	7980.8	8749.8	9694.2	7048.4	6426.3	6955.4	6907.5	8451.5	11768.8	8376.5
75°	5547.9	5666.3	6646.6	7586.5	4936.3	4182.3	4372.6	4551.0	5900.1	9292.4	4949.8
77.5°	3812.0	3913.9	4650.0	5017.2	3600.6	3449.2	3155.4	3327.8	3866.0	5513.4	2693.7
80°	2299.5	2295.0	2779.2	2869.1	2507.9	2912.6	2443.4	2743.2	2337.0	2359.5	1043.3
82.5°	1493.0	1478.0	1699.9	1852.8	1395.6	1467.5	984.9	1419.6	1523.0	658.1	329.8
85°	668.6	697.0	817.0	1077.8	611.6	325.3	200.9	436.2	649.1	331.3	0.0
87.5°	69.0	54.0	143.9	262.3	83.9	9.0	30.0	15.0	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°	6594.2	6594.2	6594.2	6594.2	6594.2	6594.2	6594.2	6594.2	6594.2	6594.2	6594.2
2.5°	7135.3	7048.4	6789.1	6546.2	6337.8	6083.0	5918.1	5658.8	5501.4	5453.4	5460.9
5°	6849.0	6598.7	6105.5	5711.3	5272.0	5021.7	4641.0	4275.2	4077.3	4003.9	3970.9
7.5°	6249.4	5981.1	5386.0	4766.9	4296.2	3857.0	3573.7	3251.4	3031.0	2849.6	2818.2
10°	5804.2	5451.9	4714.4	4048.8	3677.1	3347.3	3064.0	2741.7	2482.4	2275.5	2218.5
12.5°	5537.4	5143.1	4320.2	3762.5	3410.3	3071.5	2702.7	2329.5	2064.1	1840.8	1737.4
15°	5489.4	5032.2	4209.2	3557.2	3122.5	2713.2	2223.0	1819.8	1547.0	1335.6	1271.2
17.5°	5778.7	5231.6	4192.8	3342.8	2746.2	2166.1	1656.4	1322.1	1014.8	896.4	849.9
20°	6294.4	5583.8	4191.3	3094.0	2359.5	1668.4	1163.2	861.9	737.5	680.6	653.6
22.5°	6997.4	6063.5	4270.7	2879.6	1957.7	1230.7	830.5	686.6	614.6	568.1	557.6
25°	7856.4	6774.1	4465.6	2734.2	1650.4	965.4	685.1	587.6	527.7	506.7	497.7
27.5°	8619.4	7454.6	4679.9	2584.3	1430.1	854.4	635.6	538.1	490.2	473.7	460.2
30°	9277.4	8072.2	4783.4	2386.4	1253.2	782.5	644.6	575.6	512.7	463.2	440.7
32.5°	9826.1	8545.9	4850.8	2206.6	1103.3	640.1	509.7	445.2	416.7	398.7	383.7
35°	10512.6	9058.6	4810.3	2104.6	1026.8	583.1	464.7	383.7	335.8	299.8	284.8
37.5°	11232.1	9571.2	4739.9	2020.7	992.4	541.1	442.2	364.3	311.8	274.3	254.8
40°	11977.2	10046.4	4657.4	1942.7	960.9	514.2	428.7	347.8	295.3	254.8	233.8
42.5°	12659.2	10509.6	4624.5	1891.8	909.9	518.7	418.2	340.3	278.8	236.8	218.9
45°	13210.8	10948.8	4669.4	1864.8	854.4	511.2	421.2	331.3	265.3	224.9	206.9
47.5°	13800.0	11569.4	4814.8	1837.8	800.5	475.2	443.7	329.8	259.3	217.4	197.9
50°	14485.0	12363.9	5147.6	1771.8	734.5	436.2	472.2	328.3	251.8	208.4	188.9
52.5°	15397.9	13266.3	5490.9	1656.4	638.6	398.7	451.2	323.8	236.8	197.9	178.4
55°	16217.9	14216.7	5781.7	1520.0	517.2	344.8	406.2	304.3	211.4	179.9	161.9
57.5°	16556.7	14753.3	5772.7	1331.1	413.7	302.8	334.3	278.8	184.4	158.9	143.9
59°	16432.2	14685.9	5579.3	1191.7	377.8	280.3	277.3	275.8	172.4	143.9	131.9
60°	16256.9	14440.0	5371.0	1122.8	355.3	265.3	254.8	272.8	161.9	134.9	122.9
62.5°	15585.3	13420.7	4679.9	1005.8	325.3	224.9	203.9	230.8	143.9	116.9	106.4
65°	14612.4	11854.2	3961.9	972.9	316.3	185.9	169.4	164.9	122.9	98.9	89.9
67.5°	12714.7	10031.4	3209.4	950.4	319.3	155.9	148.4	124.4	101.9	82.4	76.4
70°	10179.8	7821.9	2627.8	924.9	322.3	127.4	124.4	98.9	82.4	69.0	63.0
72.5°	6184.9	4636.5	2068.6	803.5	313.3	101.9	110.9	75.0	60.0	49.5	46.5
75°	3824.0	3173.4	1283.2	625.1	206.9	75.0	77.9	46.5	40.5	31.5	31.5
77.5°	2215.5	2004.2	458.7	224.9	91.4	45.0	34.5	24.0	22.5	13.5	13.5
80°	918.9	736.0	158.9	76.4	49.5	21.0	7.5	1.5	0.0	0.0	0.0
82.5°	268.3	238.3	43.5	34.5	15.0	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





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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	6594.2	6594.2	6594.2	6594.2	6594.2	6594.2	6594.2	6594.2	6594.2	6594.2	6594.2
2.5°	5333.5	5284.0	5261.6	5338.0	5267.6	5357.5	5288.5	5318.5	5407.0	5445.9	5546.4
5°	3991.9	3940.9	3916.9	4032.4	4026.4	4083.3	4077.3	4129.8	4174.8	4074.3	4177.8
7.5°	2780.7	2746.2	2803.2	2893.1	2989.0	2957.6	2957.6	2887.1	2911.1	2896.1	2891.6
10°	2115.1	1996.7	1966.7	1963.7	1999.7	2007.2	1966.7	1869.3	1905.3	1915.7	1978.7
12.5°	1663.9	1572.5	1433.1	1370.1	1353.6	1367.1	1233.7	1148.2	1188.7	1164.7	1226.2
15°	1193.2	1118.3	1035.8	965.4	945.9	918.9	773.5	671.6	659.6	664.1	674.6
17.5°	851.4	800.5	800.5	725.5	685.1	604.1	530.7	485.7	481.2	485.7	493.2
20°	628.1	601.1	598.1	578.6	533.7	479.7	428.7	419.7	416.7	424.2	427.2
22.5°	541.1	512.7	488.7	487.2	445.2	400.2	376.3	364.3	365.8	368.8	376.3
25°	484.2	454.2	428.7	413.7	383.7	352.3	329.8	323.8	323.8	328.3	329.8
27.5°	443.7	406.2	383.7	362.8	335.8	308.8	289.3	284.8	281.8	284.8	292.3
30°	415.2	377.8	349.3	317.8	296.8	271.3	254.8	248.8	247.3	248.8	254.8
32.5°	355.3	332.8	310.3	281.8	256.3	239.8	221.9	211.4	211.4	214.4	220.4
35°	268.3	256.3	254.8	247.3	226.4	208.4	187.4	176.9	176.9	182.9	185.9
37.5°	236.8	214.4	211.4	208.4	199.4	175.4	155.9	146.9	145.4	149.9	155.9
40°	215.9	190.4	176.9	173.9	175.4	148.4	127.4	118.4	118.4	119.9	125.9
42.5°	199.4	169.4	145.4	142.4	148.4	124.4	103.4	94.4	94.4	94.4	101.9
45°	185.9	151.4	122.9	107.9	116.9	101.9	83.9	75.0	72.0	75.0	77.9
47.5°	176.9	137.9	107.9	86.9	86.9	80.9	67.5	57.0	54.0	55.5	60.0
50°	169.4	125.9	91.4	70.5	63.0	64.5	51.0	43.5	40.5	40.5	45.0
52.5°	157.4	113.9	79.4	60.0	48.0	43.5	37.5	31.5	30.0	31.5	34.5
55°	142.4	103.4	69.0	49.5	37.5	30.0	27.0	22.5	21.0	22.5	27.0
57.5°	125.9	86.9	55.5	39.0	25.5	19.5	18.0	15.0	12.0	13.5	16.5
59°	115.4	77.9	48.0	31.5	19.5	13.5	13.5	10.5	7.5	9.0	13.5
60°	110.9	72.0	40.5	27.0	16.5	10.5	10.5	7.5	4.5	6.0	10.5
62.5°	94.4	60.0	31.5	16.5	7.5	1.5	4.5	1.5	0.0	1.5	4.5
65°	79.4	48.0	21.0	7.5	0.0	0.0	0.0	0.0	0.0	0.0	1.5
67.5°	66.0	36.0	10.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	52.5	24.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	36.0	13.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	22.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	9.0	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: P454900  
 CATALOG NUMBER: GALN-SA6A-740-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6594.2	6594.2	6594.2	6594.2	6594.2	6594.2	6594.2	6594.2	6594.2	6594.2
2.5°	5552.4	5766.7	5898.6	6147.5	6402.3	6598.7	6844.5	7064.9	7156.3	7204.3
5°	4282.7	4581.0	4834.3	5213.6	5565.9	5994.6	6429.3	6942.0	7138.3	7189.3
7.5°	3005.5	3309.8	3575.2	4014.4	4516.5	5090.7	5741.2	6391.8	6678.1	6759.1
10°	2170.6	2495.9	2819.7	3258.9	3728.1	4350.2	5027.7	5832.7	6162.5	6225.4
12.5°	1370.1	1719.4	2245.5	2788.2	3284.3	3785.0	4494.1	5369.5	5733.7	5849.2
15°	794.5	1055.3	1452.5	2160.1	2791.2	3453.7	4227.2	5195.6	5603.3	5721.8
17.5°	532.2	622.1	894.9	1436.1	2269.5	3147.9	4159.8	5338.0	5789.2	5940.6
20°	448.2	488.7	584.6	875.4	1747.9	2875.1	4177.8	5724.8	6316.9	6505.7
22.5°	394.2	431.7	493.2	629.6	1220.2	2536.3	4263.2	6277.9	7042.4	7283.7
25°	347.8	385.2	439.2	521.7	820.0	2145.1	4450.6	7087.4	8003.3	8268.6
27.5°	308.8	343.3	389.7	460.2	631.1	1708.9	4617.0	7875.8	8880.2	9096.0
30°	272.8	301.3	346.3	400.2	524.7	1317.6	4700.9	8565.4	9518.8	9758.6
32.5°	236.8	263.8	307.3	350.8	431.7	1004.3	4642.5	9072.1	10139.4	10292.3
35°	202.4	230.8	266.8	307.3	373.3	811.0	4350.2	9641.7	10782.4	10902.4
37.5°	173.9	197.9	235.3	266.8	337.3	649.1	3996.4	10154.3	11503.5	11675.9
40°	146.9	170.9	208.4	236.8	310.3	511.2	3677.1	10724.0	12263.5	12476.3
42.5°	119.9	148.4	181.4	227.9	266.8	389.7	3290.3	11185.7	12834.6	13101.4
45°	95.9	127.4	163.4	226.4	232.3	296.8	2917.1	11545.4	13339.8	13579.6
47.5°	76.4	107.9	157.4	211.4	190.4	235.3	2704.2	11921.7	13759.5	13951.4
50°	61.5	89.9	164.9	185.9	158.9	199.4	2698.2	12341.4	13976.8	14104.3
52.5°	49.5	73.5	139.4	142.4	134.9	175.4	2860.1	12813.6	14198.7	14303.6
55°	42.0	61.5	91.4	104.9	121.4	158.9	2981.5	13540.6	14727.9	14826.8
57.5°	33.0	52.5	70.5	83.9	107.9	145.4	2998.0	14101.3	15397.9	15462.4
59°	28.5	45.0	63.0	75.0	98.9	136.4	2930.6	14135.7	15441.4	15544.8
60°	24.0	40.5	55.5	70.5	91.4	128.9	2857.1	13885.4	15279.5	15394.9
62.5°	18.0	31.5	40.5	57.0	75.0	110.9	2509.4	13011.5	14660.4	14741.3
65°	12.0	22.5	30.0	42.0	58.5	95.9	2044.7	11878.2	13704.0	13885.4
67.5°	7.5	16.5	24.0	31.5	48.0	80.9	1457.0	10185.8	12365.4	12482.3
70°	4.5	10.5	18.0	25.5	37.5	64.5	864.9	8051.2	10287.8	10311.7
72.5°	3.0	7.5	12.0	18.0	30.0	58.5	419.7	5248.1	7511.6	7797.9
75°	1.5	4.5	7.5	13.5	24.0	48.0	200.9	3506.2	5465.4	5547.9
77.5°	0.0	1.5	4.5	9.0	18.0	37.5	116.9	2302.5	3726.6	3812.0
80°	0.0	0.0	3.0	7.5	13.5	24.0	70.5	1358.1	2257.5	2299.5
82.5°	0.0	0.0	1.5	6.0	9.0	18.0	36.0	596.6	1478.0	1493.0
85°	0.0	0.0	1.5	6.0	7.5	12.0	13.5	80.9	656.6	668.6
87.5°	0.0	0.0	1.5	7.5	7.5	7.5	7.5	4.5	55.5	69.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)