

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: P456988

Luminaire Tested: **GALN-SA8B-740-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456988  
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-SA8B-740-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 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: 32998 lumens  
Efficiency: N/A  
Efficacy: 101.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

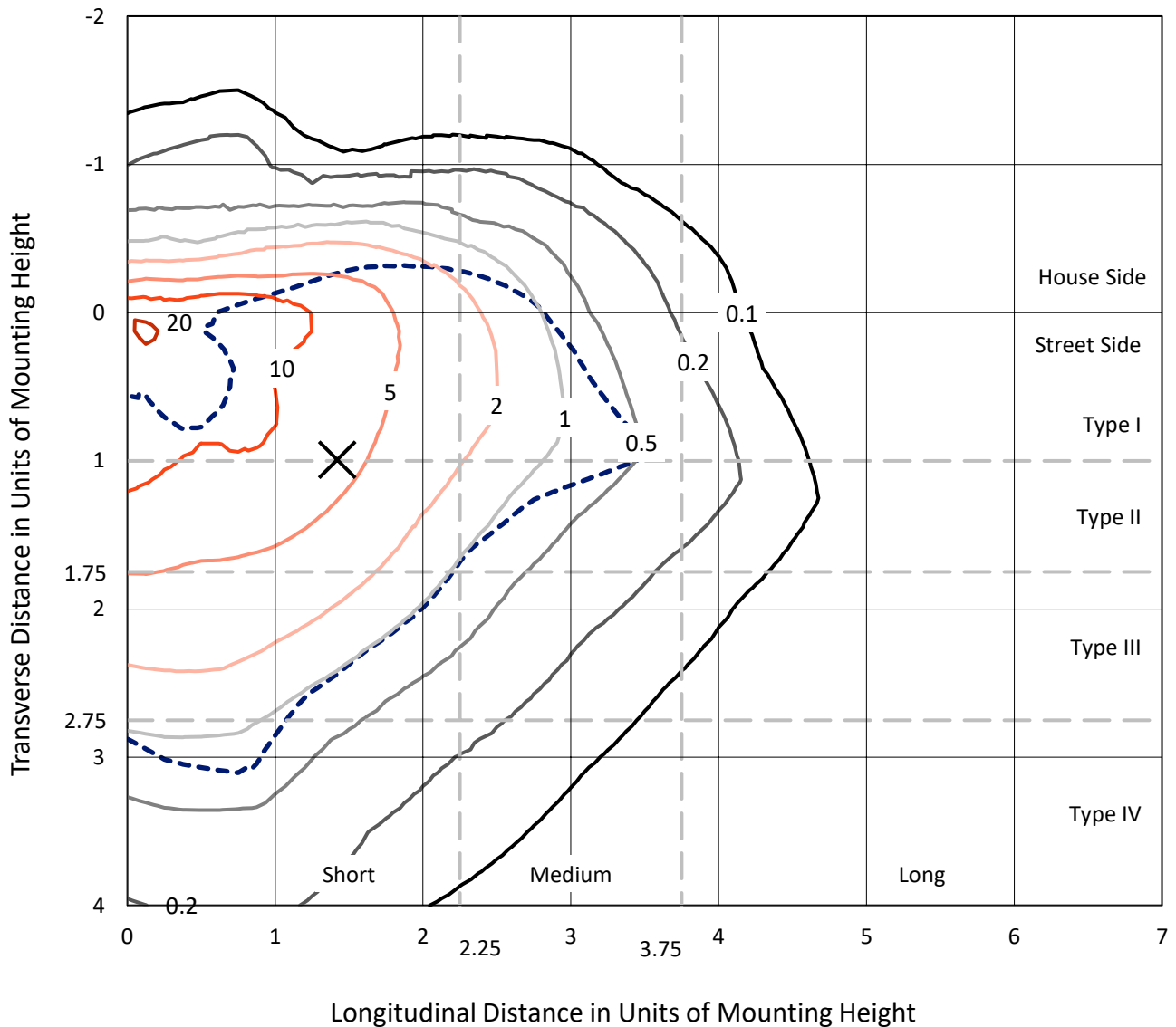
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

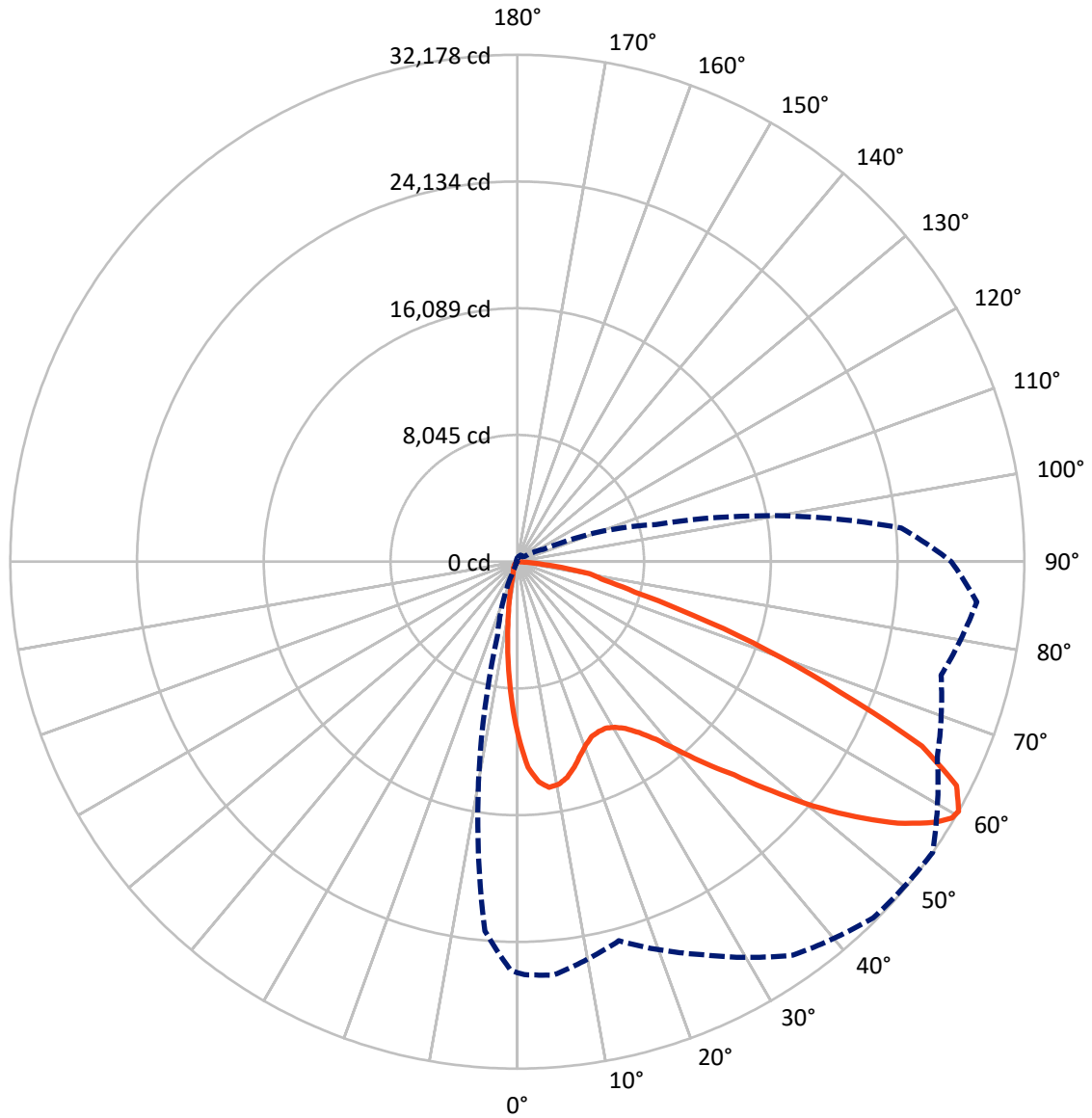
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.1 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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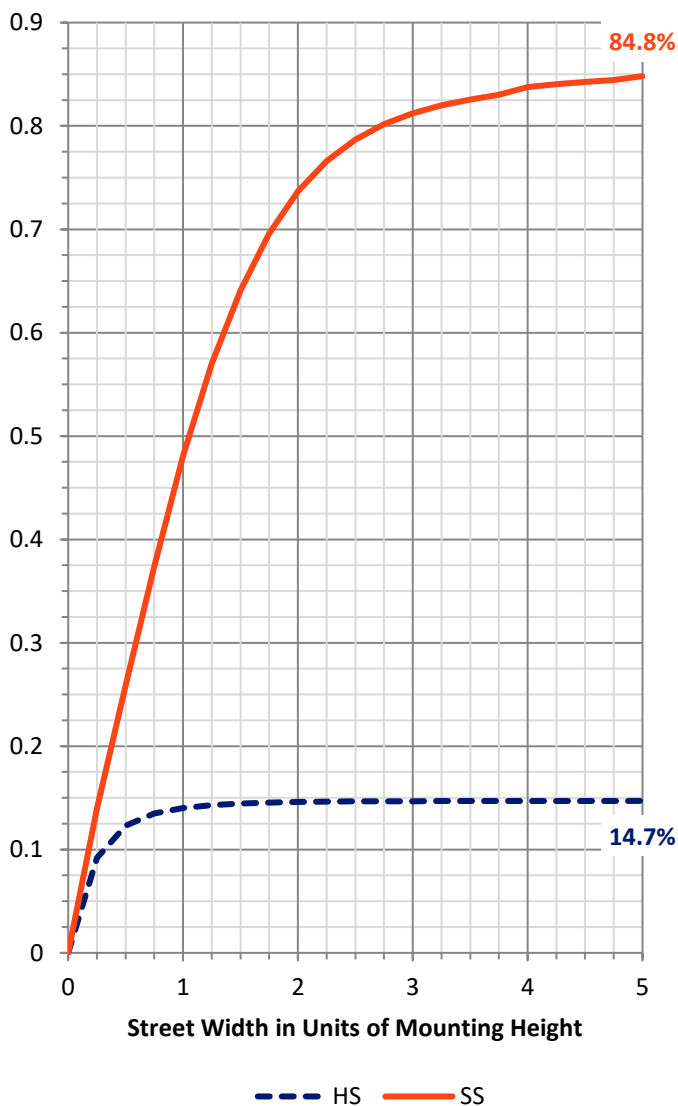
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4897.2	0.0	4897.2
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	28100.8	0.0	28100.8
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	32998.0	0.0	32998.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	827.4	2.5
10°-20°	1629.3	4.9
20°-30°	2411.7	7.3
30°-40°	3594.8	10.9
40°-50°	5264.7	16.0
50°-60°	7600.5	23.0
60°-70°	7995.4	24.2
70°-80°	3289.0	10.0
80°-90°	385.2	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°	32998.0	100.0
0°-180°	32998.0	100.0

**Coefficient of Utilization**



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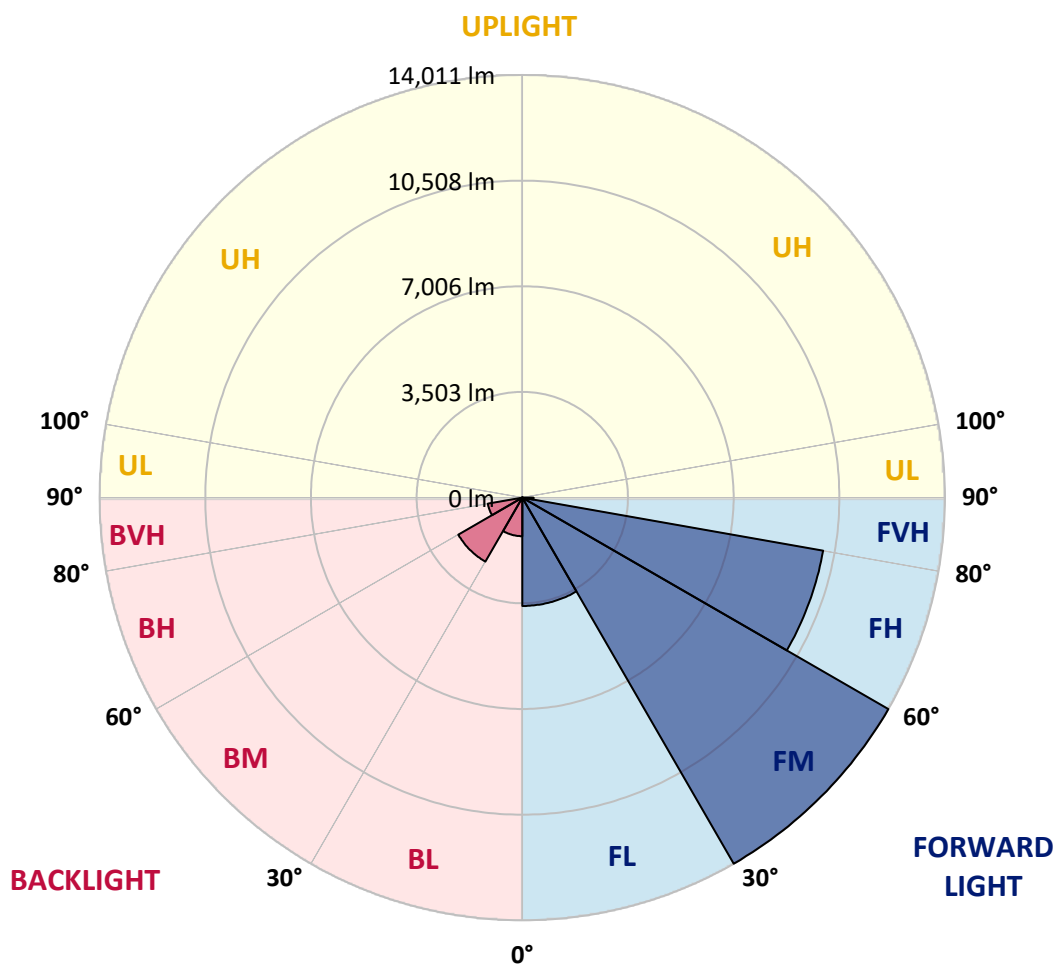
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3590.6	10.9			
FM	(30°-60°)	14011.0	42.5			
FH	(60°-80°)	10125.3	30.7			G4/12000
FVH	(80°-90°)	373.9	1.1			G3/500
BL	(0°-30°)	1277.7	3.9	B3/2500		
BM	(30°-60°)	2449.0	7.4	B2/2500		
BH	(60°-80°)	1159.1	3.5	B3/2500		G3/2500
BVH	(80°-90°)	11.3	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11173.0	11173.0	11173.0	11173.0	11173.0	11173.0	11173.0	11173.0	11173.0	11173.0	11173.0
2.5°	12206.8	12186.5	12366.8	12661.4	12958.6	13113.5	13083.0	13070.3	12824.0	12643.6	12265.2
5°	12181.4	12285.5	12608.1	13405.6	14010.1	14302.2	14388.5	14025.3	13545.3	12849.4	11990.9
7.5°	11452.4	11582.0	12107.7	13354.8	14429.2	15064.2	15041.3	14459.7	13469.1	12392.2	11168.0
10°	10548.2	10700.6	11317.8	12831.6	14226.0	15064.2	15109.9	14373.3	13141.5	11759.7	10472.0
12.5°	9910.7	10091.0	10774.3	12343.9	13702.8	14528.2	14581.6	14048.2	12895.1	11515.9	10093.6
15°	9694.8	9865.0	10558.4	12097.6	13146.5	13591.0	13578.3	13522.4	12798.6	11574.3	10113.9
17.5°	10065.6	10205.3	10987.6	12209.3	12625.9	12580.1	12646.2	12915.4	12818.9	12064.5	10753.9
20°	11023.2	11165.4	12006.1	12552.2	12227.1	11937.5	11968.0	12417.6	13006.8	12986.5	11754.7
22.5°	12341.4	12582.7	13344.6	13217.7	12173.8	11538.8	11475.3	12059.5	13326.9	14048.2	13105.9
25°	14010.1	14253.9	14848.3	14279.3	12435.4	11444.8	11386.4	11950.2	13715.5	15084.5	14627.3
27.5°	15412.1	15597.5	16189.3	15313.1	12821.4	11485.4	11388.9	11965.5	14030.4	15965.8	15909.9
30°	16534.8	16671.9	17019.9	15795.7	13154.2	11663.2	11551.5	12189.0	14170.1	16395.1	16948.8
32.5°	17439.0	17670.1	17779.3	16311.3	13631.7	11998.5	11808.0	12618.2	14510.5	16925.9	18038.4
35°	18472.7	18739.4	18599.7	16804.0	14261.6	12521.7	12288.0	13314.2	15026.1	17416.1	19303.3
37.5°	19783.3	20090.6	19544.6	17322.1	14927.0	13309.1	13199.9	14292.0	15808.4	18117.1	20659.6
40°	21139.6	21317.4	20461.5	17952.0	15744.9	14454.6	14558.7	15744.9	16831.9	18957.8	22102.2
42.5°	22198.7	22366.4	21403.8	18480.3	16580.5	15813.4	16247.8	17497.4	18005.4	19818.9	23179.2
45°	23009.0	23151.2	22056.5	19056.9	17708.2	17781.9	18602.2	19303.3	19181.3	20344.6	24009.7
47.5°	23638.9	23760.8	22559.4	19676.6	19397.2	20189.7	21444.4	21741.6	20400.5	20913.6	24761.5
50°	23897.9	23933.5	22716.9	20466.5	21314.9	23257.9	24565.9	24385.6	21797.4	21546.0	25561.6
52.5°	24235.8	24228.1	23166.5	21218.3	23118.2	26001.0	27306.5	26897.6	23377.3	22493.4	26460.7
55°	25122.2	25132.3	24129.1	22285.1	24654.8	28215.8	29612.7	29315.6	25043.4	24093.5	27509.7
57.5°	26199.1	26237.2	25498.1	23532.2	26122.9	29821.0	31334.8	31220.5	27296.3	25874.0	28500.2
59°	26338.8	26415.0	26145.8	24411.0	26994.1	30313.7	31924.0	32035.8	28502.8	27047.4	29036.2
60°	26084.8	26211.8	26333.7	24908.8	27504.6	30491.5	31959.6	32178.0	29409.5	27845.0	29280.0
62.5°	24977.4	25178.1	25790.2	26440.4	28142.1	29937.8	30824.3	31281.4	30532.2	29940.4	29302.9
65°	23527.1	23631.3	24515.1	26712.2	26905.2	27352.2	27626.5	28213.2	29183.5	30748.1	28253.9
67.5°	21149.8	21457.1	22539.1	25134.9	23255.3	22727.0	22658.5	22074.3	24593.9	28822.8	25668.3
70°	17472.0	17609.1	18942.6	20606.2	17550.7	16738.0	17063.1	16844.6	19064.5	24812.3	20659.6
72.5°	13212.6	13522.4	14825.4	16425.6	11942.6	10888.6	11785.1	11703.9	14320.0	19940.8	14193.0
75°	9400.2	9600.8	11261.9	12854.4	8363.9	7086.3	7408.9	7711.1	9997.1	15744.9	8386.8
77.5°	6459.0	6631.7	7878.8	8501.1	6100.8	5844.3	5346.5	5638.6	6550.4	9341.8	4564.2
80°	3896.2	3888.6	4709.0	4861.4	4249.3	4935.0	4140.0	4648.0	3959.7	3997.8	1767.8
82.5°	2529.7	2504.3	2880.2	3139.3	2364.6	2486.6	1668.7	2405.3	2580.5	1115.0	558.8
85°	1132.8	1181.1	1384.2	1826.2	1036.3	551.2	340.3	739.1	1099.8	561.3	0.0
87.5°	116.8	91.4	243.8	444.5	142.2	15.2	50.8	25.4	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°	11173.0	11173.0	11173.0	11173.0	11173.0	11173.0	11173.0	11173.0	11173.0	11173.0	11173.0
2.5°	12089.9	11942.6	11503.2	11091.8	10738.7	10306.9	10027.5	9588.1	9321.4	9240.2	9252.9
5°	11604.8	11180.7	10345.0	9677.0	8932.8	8508.7	7863.5	7243.8	6908.5	6784.1	6728.2
7.5°	10588.9	10134.2	9125.9	8076.9	7279.4	6535.2	6055.1	5509.0	5135.7	4828.4	4775.0
10°	9834.5	9237.6	7988.0	6860.3	6230.4	5671.6	5191.6	4645.5	4206.1	3855.6	3759.1
12.5°	9382.4	8714.4	7320.0	6375.2	5778.3	5204.3	4579.4	3947.0	3497.4	3119.0	2943.7
15°	9301.1	8526.5	7132.0	6027.2	5290.6	4597.2	3766.7	3083.4	2621.2	2263.1	2153.8
17.5°	9791.3	8864.3	7104.1	5664.0	4653.1	3670.2	2806.6	2240.2	1719.5	1518.9	1440.1
20°	10665.1	9461.1	7101.6	5242.4	3997.8	2826.9	1971.0	1460.4	1249.6	1153.1	1107.4
22.5°	11856.3	10273.9	7236.2	4879.2	3317.1	2085.3	1407.1	1163.3	1041.4	962.6	944.8
25°	13311.6	11477.8	7566.4	4632.8	2796.4	1635.7	1160.7	995.6	894.0	858.5	843.2
27.5°	14604.4	12630.9	7929.6	4378.8	2423.1	1447.7	1076.9	911.8	830.5	802.6	779.8
30°	15719.5	13677.4	8104.8	4043.5	2123.4	1325.8	1092.2	975.3	868.6	784.8	746.7
32.5°	16649.1	14480.0	8219.1	3738.7	1869.4	1084.5	863.6	754.4	706.1	675.6	650.2
35°	17812.3	15348.6	8150.5	3566.0	1739.8	988.0	787.4	650.2	568.9	508.0	482.6
37.5°	19031.5	16217.3	8031.2	3423.8	1681.4	916.9	749.3	617.2	528.3	464.8	431.8
40°	20293.8	17022.4	7891.5	3291.7	1628.1	871.2	726.4	589.3	500.4	431.8	396.2
42.5°	21449.5	17807.3	7835.6	3205.4	1541.7	878.8	708.6	576.6	472.4	401.3	370.8
45°	22384.2	18551.4	7911.8	3159.6	1447.7	866.1	713.7	561.3	449.6	381.0	350.5
47.5°	23382.3	19603.0	8158.2	3113.9	1356.3	805.1	751.8	558.8	439.4	368.3	335.3
50°	24543.1	20949.1	8722.0	3002.2	1244.6	739.1	800.1	556.2	426.7	353.0	320.0
52.5°	26089.9	22478.1	9303.7	2806.6	1082.0	675.6	764.5	548.6	401.3	335.3	302.2
55°	27479.2	24088.4	9796.4	2575.5	876.3	584.2	688.3	515.6	358.1	304.8	274.3
57.5°	28053.2	24997.7	9781.2	2255.4	701.0	513.1	566.4	472.4	312.4	269.2	243.8
59°	27842.4	24883.4	9453.5	2019.2	640.1	475.0	469.9	467.3	292.1	243.8	223.5
60°	27545.2	24466.9	9100.5	1902.4	602.0	449.6	431.8	462.3	274.3	228.6	208.3
62.5°	26407.4	22739.7	7929.6	1704.3	551.2	381.0	345.4	391.1	243.8	198.1	180.3
65°	24759.0	20085.5	6713.0	1648.4	535.9	314.9	287.0	279.4	208.3	167.6	152.4
67.5°	21543.5	16997.0	5437.9	1610.3	541.0	264.1	251.5	210.8	172.7	139.7	129.5
70°	17248.5	13253.2	4452.4	1567.1	546.1	215.9	210.8	167.6	139.7	116.8	106.7
72.5°	10479.6	7855.9	3505.1	1361.4	530.8	172.7	188.0	127.0	101.6	83.8	78.7
75°	6479.3	5377.0	2174.2	1059.1	350.5	127.0	132.1	78.7	68.6	53.3	53.3
77.5°	3754.0	3395.8	777.2	381.0	154.9	76.2	58.4	40.6	38.1	22.9	22.9
80°	1557.0	1247.1	269.2	129.5	83.8	35.6	12.7	2.5	0.0	0.0	0.0
82.5°	454.6	403.8	73.7	58.4	25.4	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°	11173.0	11173.0	11173.0	11173.0	11173.0	11173.0	11173.0	11173.0	11173.0	11173.0	11173.0
2.5°	9037.0	8953.2	8915.1	9044.6	8925.2	9077.6	8960.8	9011.6	9161.4	9227.5	9397.6
5°	6763.8	6677.4	6636.8	6832.3	6822.2	6918.7	6908.5	6997.4	7073.6	6903.5	7078.7
7.5°	4711.5	4653.1	4749.6	4902.0	5064.6	5011.2	5011.2	4891.9	4932.5	4907.1	4899.5
10°	3583.8	3383.2	3332.4	3327.3	3388.2	3400.9	3332.4	3167.3	3228.2	3246.0	3352.7
12.5°	2819.3	2664.4	2428.1	2321.5	2293.5	2316.4	2090.3	1945.6	2014.1	1973.5	2077.6
15°	2021.8	1894.8	1755.1	1635.7	1602.7	1557.0	1310.6	1137.9	1117.6	1125.2	1143.0
17.5°	1442.7	1356.3	1356.3	1229.3	1160.7	1023.6	899.1	822.9	815.3	822.9	835.6
20°	1064.2	1018.5	1013.4	980.4	904.2	812.8	726.4	711.2	706.1	718.8	723.9
22.5°	916.9	868.6	828.0	825.5	754.4	678.2	637.5	617.2	619.7	624.8	637.5
25°	820.4	769.6	726.4	701.0	650.2	596.9	558.8	548.6	548.6	556.2	558.8
27.5°	751.8	688.3	650.2	614.7	568.9	523.2	490.2	482.6	477.5	482.6	495.3
30°	703.6	640.1	591.8	538.5	502.9	459.7	431.8	421.6	419.1	421.6	431.8
32.5°	602.0	563.9	525.8	477.5	434.3	406.4	375.9	358.1	358.1	363.2	373.4
35°	454.6	434.3	431.8	419.1	383.5	353.0	317.5	299.7	299.7	309.9	314.9
37.5°	401.3	363.2	358.1	353.0	337.8	297.2	264.1	248.9	246.4	254.0	264.1
40°	365.7	322.6	299.7	294.6	297.2	251.5	215.9	200.7	200.7	203.2	213.4
42.5°	337.8	287.0	246.4	241.3	251.5	210.8	175.3	160.0	160.0	160.0	172.7
45°	314.9	256.5	208.3	182.9	198.1	172.7	142.2	127.0	121.9	127.0	132.1
47.5°	299.7	233.7	182.9	147.3	147.3	137.2	114.3	96.5	91.4	94.0	101.6
50°	287.0	213.4	154.9	119.4	106.7	109.2	86.4	73.7	68.6	68.6	76.2
52.5°	266.7	193.0	134.6	101.6	81.3	73.7	63.5	53.3	50.8	53.3	58.4
55°	241.3	175.3	116.8	83.8	63.5	50.8	45.7	38.1	35.6	38.1	45.7
57.5°	213.4	147.3	94.0	66.0	43.2	33.0	30.5	25.4	20.3	22.9	27.9
59°	195.6	132.1	81.3	53.3	33.0	22.9	22.9	17.8	12.7	15.2	22.9
60°	188.0	121.9	68.6	45.7	27.9	17.8	17.8	12.7	7.6	10.2	17.8
62.5°	160.0	101.6	53.3	27.9	12.7	2.5	7.6	2.5	0.0	2.5	7.6
65°	134.6	81.3	35.6	12.7	0.0	0.0	0.0	0.0	0.0	0.0	2.5
67.5°	111.8	61.0	17.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	88.9	40.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	61.0	22.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	38.1	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	15.2	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: P456988

CATALOG NUMBER: GALN-SA8B-740-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11173.0	11173.0	11173.0	11173.0	11173.0	11173.0	11173.0	11173.0	11173.0	11173.0
2.5°	9407.8	9771.0	9994.5	10416.1	10847.9	11180.7	11597.2	11970.6	12125.5	12206.8
5°	7256.5	7761.9	8191.2	8833.8	9430.7	10157.1	10893.6	11762.3	12095.0	12181.4
7.5°	5092.5	5608.1	6057.7	6801.9	7652.7	8625.5	9727.8	10830.1	11315.3	11452.4
10°	3677.8	4228.9	4777.6	5521.7	6316.7	7370.8	8518.8	9882.8	10441.5	10548.2
12.5°	2321.5	2913.3	3804.8	4724.2	5564.9	6413.3	7614.6	9097.9	9715.1	9910.7
15°	1346.1	1788.1	2461.2	3660.0	4729.3	5851.9	7162.5	8803.3	9494.2	9694.8
17.5°	901.7	1054.1	1516.3	2433.2	3845.4	5333.8	7048.2	9044.6	9809.1	10065.6
20°	759.4	828.0	990.6	1483.3	2961.5	4871.5	7078.7	9699.9	10703.1	11023.2
22.5°	668.0	731.5	835.6	1066.8	2067.5	4297.5	7223.5	10637.1	11932.5	12341.4
25°	589.3	652.8	744.2	883.9	1389.3	3634.6	7541.0	12008.7	13560.5	14010.1
27.5°	523.2	581.6	660.4	779.8	1069.3	2895.5	7822.9	13344.6	15046.4	15412.1
30°	462.3	510.5	586.7	678.2	889.0	2232.6	7965.1	14513.0	16128.4	16534.8
32.5°	401.3	447.0	520.7	594.3	731.5	1701.7	7866.1	15371.5	17179.9	17439.0
35°	342.9	391.1	452.1	520.7	632.4	1374.1	7370.8	16336.7	18269.5	18472.7
37.5°	294.6	335.3	398.8	452.1	571.5	1099.8	6771.4	17205.3	19491.2	19783.3
40°	248.9	289.5	353.0	401.3	525.8	866.1	6230.4	18170.5	20778.9	21139.6
42.5°	203.2	251.5	307.3	386.1	452.1	660.4	5575.1	18952.8	21746.6	22198.7
45°	162.6	215.9	276.8	383.5	393.7	502.9	4942.7	19562.3	22602.6	23009.0
47.5°	129.5	182.9	266.7	358.1	322.6	398.8	4582.0	20199.8	23313.8	23638.9
50°	104.1	152.4	279.4	314.9	269.2	337.8	4571.8	20911.0	23682.1	23897.9
52.5°	83.8	124.5	236.2	241.3	228.6	297.2	4846.1	21711.1	24058.0	24235.8
55°	71.1	104.1	154.9	177.8	205.7	269.2	5051.9	22942.9	24954.5	25122.2
57.5°	55.9	88.9	119.4	142.2	182.9	246.4	5079.8	23892.9	26089.9	26199.1
59°	48.3	76.2	106.7	127.0	167.6	231.1	4965.5	23951.3	26163.5	26338.8
60°	40.6	68.6	94.0	119.4	154.9	218.4	4841.1	23527.1	25889.2	26084.8
62.5°	30.5	53.3	68.6	96.5	127.0	188.0	4251.8	22046.4	24840.2	24977.4
65°	20.3	38.1	50.8	71.1	99.1	162.6	3464.4	20126.2	23219.8	23527.1
67.5°	12.7	27.9	40.6	53.3	81.3	137.2	2468.8	17258.6	20951.7	21149.8
70°	7.6	17.8	30.5	43.2	63.5	109.2	1465.5	13641.8	17431.4	17472.0
72.5°	5.1	12.7	20.3	30.5	50.8	99.1	711.2	8892.2	12727.5	13212.6
75°	2.5	7.6	12.7	22.9	40.6	81.3	340.3	5940.8	9260.5	9400.2
77.5°	0.0	2.5	7.6	15.2	30.5	63.5	198.1	3901.3	6314.2	6459.0
80°	0.0	0.0	5.1	12.7	22.9	40.6	119.4	2301.2	3825.1	3896.2
82.5°	0.0	0.0	2.5	10.2	15.2	30.5	61.0	1010.9	2504.3	2529.7
85°	0.0	0.0	2.5	10.2	12.7	20.3	22.9	137.2	1112.5	1132.8
87.5°	0.0	0.0	2.5	12.7	12.7	12.7	12.7	7.6	94.0	116.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)