

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: P453247

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

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453247  
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-SA4B-730-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 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: 14722 lumens  
Efficiency: N/A  
Efficacy: 89.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

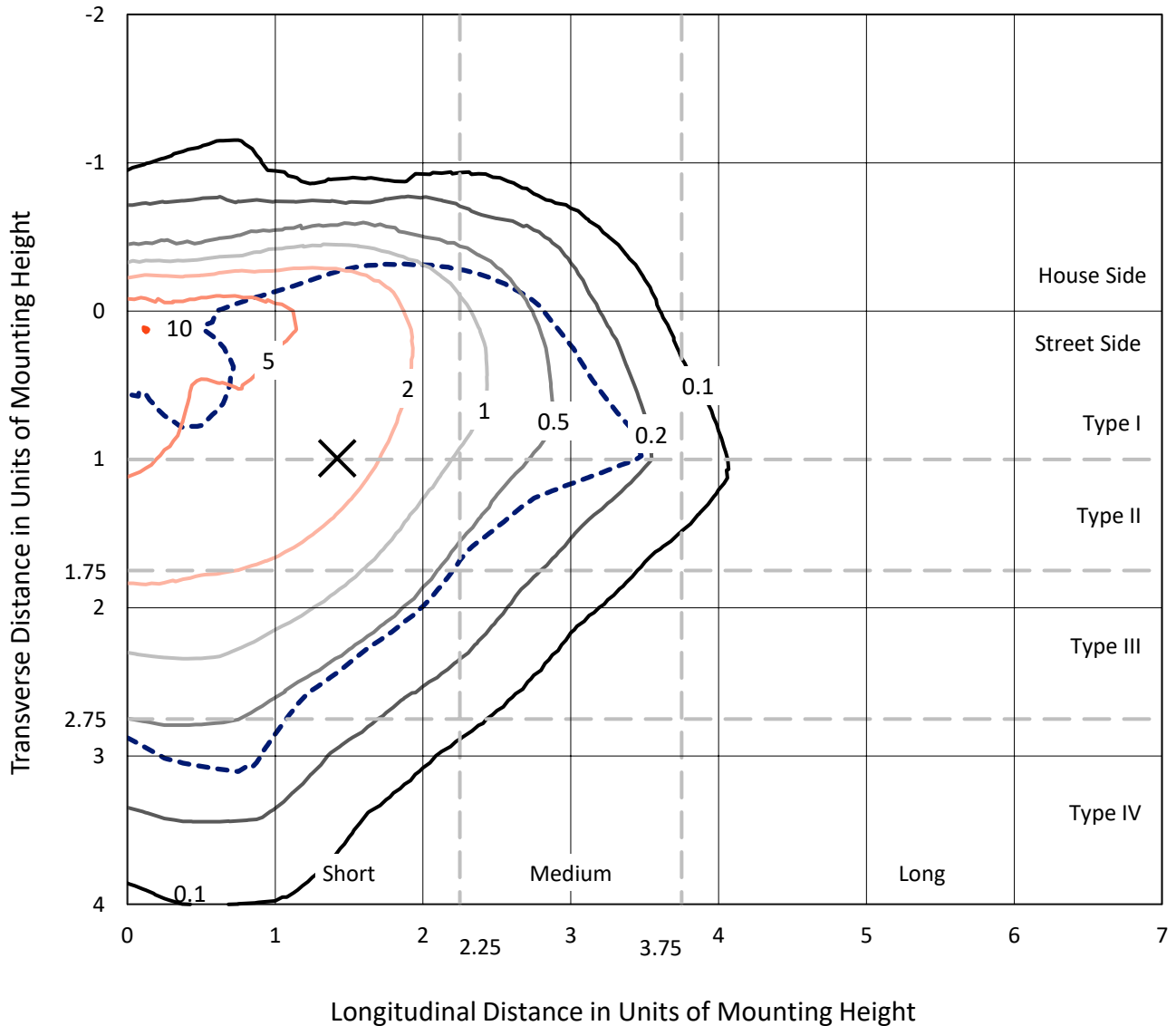
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

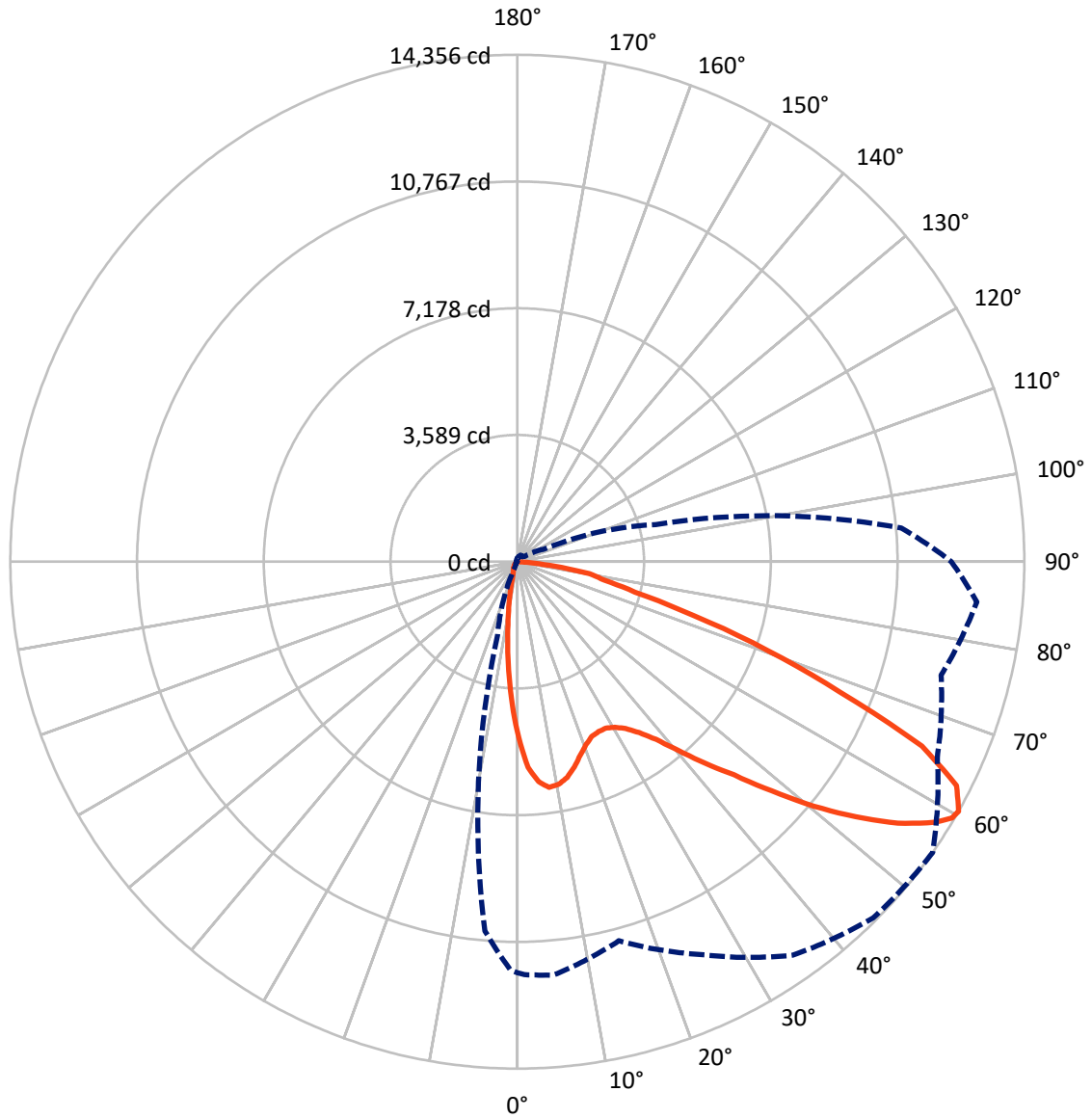
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 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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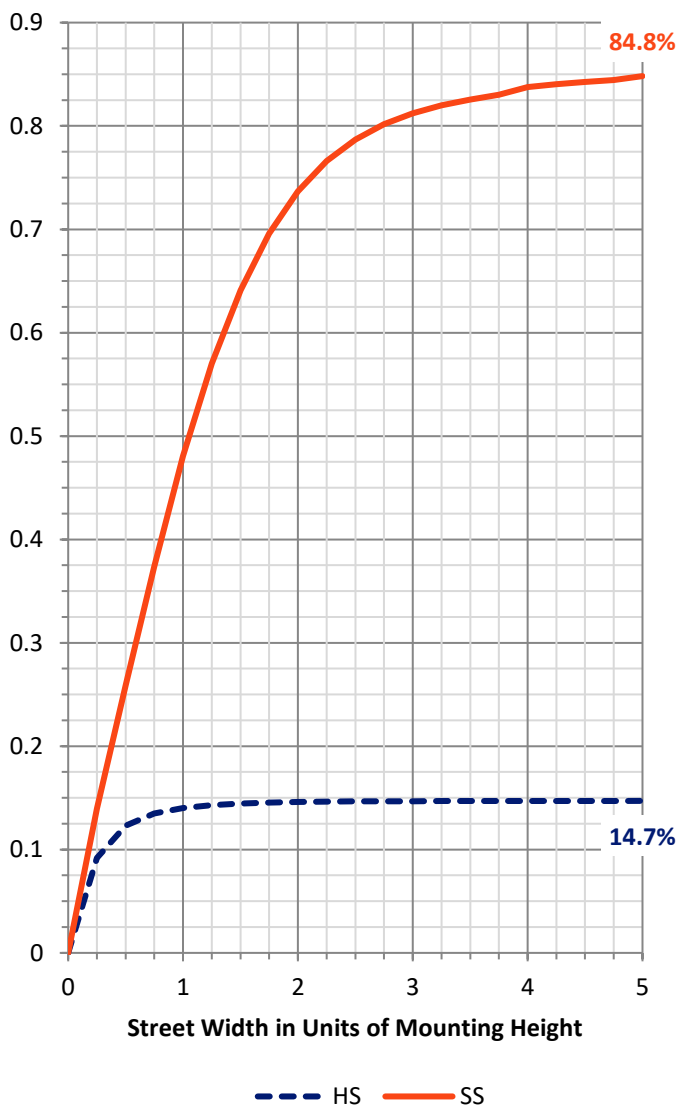
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2184.9	0.0	2184.9
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	12537.1	0.0	12537.1
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	14722.0	0.0	14722.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	369.1	2.5
10°-20°	726.9	4.9
20°-30°	1076.0	7.3
30°-40°	1603.8	10.9
40°-50°	2348.8	16.0
50°-60°	3391.0	23.0
60°-70°	3567.1	24.2
70°-80°	1467.4	10.0
80°-90°	171.9	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°	14722.0	100.0
0°-180°	14722.0	100.0

**Coefficient of Utilization**



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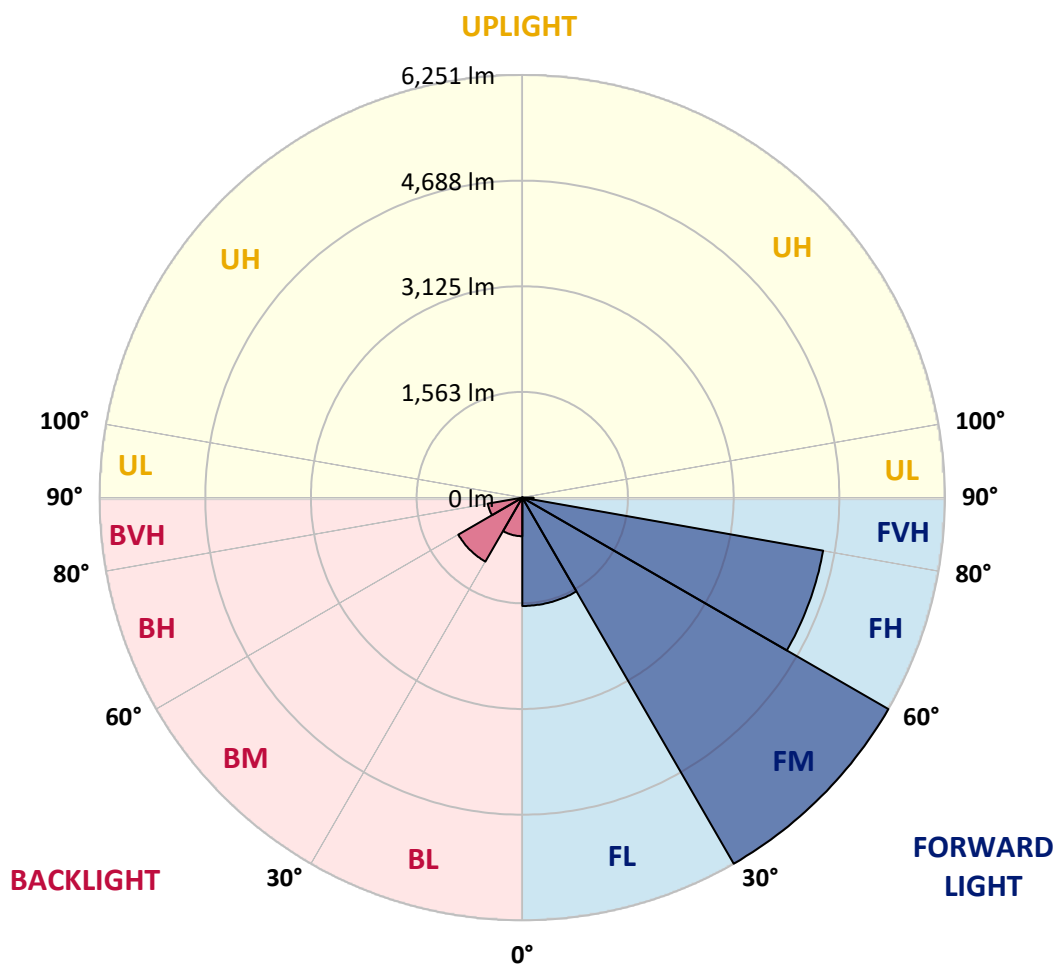
CATALOG NUMBER: GALN-SA4B-730-U-SLL-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1602.0	10.9			
FM (30°-60°)	6251.0	42.5			
FH (60°-80°)	4517.4	30.7			G2/5000
FVH (80°-90°)	166.8	1.1			G2/225
BL (0°-30°)	570.0	3.9	B2/1000		
BM (30°-60°)	1092.6	7.4	B2/2500		
BH (60°-80°)	517.1	3.5	B2/1000		G2/1000
BVH (80°-90°)	5.1	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-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4984.8	4984.8	4984.8	4984.8	4984.8	4984.8	4984.8	4984.8	4984.8	4984.8	4984.8
2.5°	5446.0	5437.0	5517.4	5648.9	5781.4	5850.6	5837.0	5831.3	5721.4	5640.9	5472.1
5°	5434.7	5481.2	5625.1	5980.9	6250.6	6380.9	6419.4	6257.4	6043.2	5732.7	5349.7
7.5°	5109.5	5167.3	5401.8	5958.2	6437.6	6720.8	6710.7	6451.2	6009.2	5528.8	4982.6
10°	4706.1	4774.1	5049.4	5724.8	6346.9	6720.8	6741.2	6412.6	5863.0	5246.6	4672.1
12.5°	4421.6	4502.1	4806.9	5507.2	6113.5	6481.8	6505.5	6267.6	5753.1	5137.8	4503.2
15°	4325.3	4401.2	4710.6	5397.3	5865.3	6063.6	6057.9	6033.0	5710.1	5163.9	4512.3
17.5°	4490.8	4553.1	4902.1	5447.2	5633.0	5612.6	5642.1	5762.2	5719.1	5382.6	4797.9
20°	4918.0	4981.4	5356.5	5600.1	5455.1	5325.9	5339.5	5540.1	5803.0	5793.9	5244.3
22.5°	5506.1	5613.7	5953.7	5897.0	5431.3	5148.0	5119.7	5380.3	5945.8	6267.6	5847.2
25°	6250.6	6359.4	6624.5	6370.7	5548.0	5106.1	5080.0	5331.6	6119.1	6729.9	6525.9
27.5°	6876.1	6958.8	7222.8	6831.9	5720.3	5124.2	5081.1	5338.4	6259.6	7123.1	7098.2
30°	7377.0	7438.1	7593.4	7047.2	5868.7	5203.5	5153.7	5438.1	6322.0	7314.6	7561.7
32.5°	7780.4	7883.5	7932.2	7277.2	6081.7	5353.1	5268.1	5629.6	6473.8	7551.5	8047.8
35°	8241.6	8360.6	8298.2	7497.1	6362.8	5586.5	5482.3	5940.1	6703.9	7770.2	8612.1
37.5°	8826.3	8963.4	8719.8	7728.2	6659.7	5937.8	5889.1	6376.4	7052.9	8082.9	9217.2
40°	9431.4	9510.7	9128.8	8009.3	7024.5	6448.9	6495.3	7024.5	7509.5	8458.0	9860.9
42.5°	9903.9	9978.7	9549.2	8245.0	7397.4	7055.1	7248.9	7806.4	8033.1	8842.1	10341.3
45°	10265.4	10328.9	9840.5	8502.2	7900.5	7933.3	8299.4	8612.1	8557.7	9076.7	10711.9
47.5°	10546.4	10600.8	10064.8	8778.7	8654.0	9007.6	9567.4	9700.0	9101.6	9330.5	11047.3
50°	10662.0	10677.9	10135.1	9131.1	9509.6	10376.5	10960.1	10879.6	9724.9	9612.7	11404.3
52.5°	10812.7	10809.3	10335.7	9466.5	10314.1	11600.3	12182.7	12000.3	10429.7	10035.4	11805.4
55°	11208.2	11212.7	10765.1	9942.5	10999.7	12588.4	13211.7	13079.1	11173.1	10749.3	12273.4
57.5°	11688.7	11705.7	11375.9	10498.8	11654.7	13304.6	13980.0	13929.0	12178.2	11543.6	12715.3
59°	11751.0	11785.0	11664.9	10890.9	12043.4	13524.4	14242.9	14292.7	12716.5	12067.2	12954.4
60°	11637.7	11694.3	11748.7	11113.0	12271.1	13603.7	14258.7	14356.2	13121.0	12423.0	13063.2
62.5°	11143.6	11233.1	11506.2	11796.3	12555.6	13356.7	13752.2	13956.2	13621.9	13357.8	13073.4
65°	10496.6	10543.0	10937.4	11917.6	12003.7	12203.1	12325.5	12587.3	13020.2	13718.2	12605.4
67.5°	9435.9	9573.0	10055.8	11213.9	10375.3	10139.6	10109.0	9848.4	10972.5	12859.2	11451.8
70°	7795.1	7856.3	8451.2	9193.4	7830.2	7467.6	7612.7	7515.2	8505.6	11070.0	9217.2
72.5°	5894.8	6033.0	6614.3	7328.2	5328.2	4857.9	5257.9	5221.7	6388.8	8896.5	6332.2
75°	4193.9	4283.4	5024.5	5735.0	3731.5	3161.6	3305.5	3440.3	4460.2	7024.5	3741.7
77.5°	2881.7	2958.7	3515.1	3792.7	2721.9	2607.4	2385.3	2515.6	2922.5	4167.8	2036.3
80°	1738.3	1734.9	2100.9	2168.9	1895.8	2201.8	1847.1	2073.7	1766.6	1783.6	788.7
82.5°	1128.6	1117.3	1285.0	1400.6	1055.0	1109.4	744.5	1073.1	1151.3	497.5	249.3
85°	505.4	526.9	617.6	814.8	462.3	245.9	151.8	329.8	490.7	250.4	0.0
87.5°	52.1	40.8	108.8	198.3	63.5	6.8	22.7	11.3	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°	4984.8	4984.8	4984.8	4984.8	4984.8	4984.8	4984.8	4984.8	4984.8	4984.8	4984.8
2.5°	5393.9	5328.2	5132.1	4948.6	4791.1	4598.4	4473.8	4277.7	4158.7	4122.5	4128.1
5°	5177.5	4988.2	4615.4	4317.4	3985.4	3796.1	3508.3	3231.8	3082.2	3026.7	3001.8
7.5°	4724.2	4521.4	4071.5	3603.5	3247.7	2915.7	2701.5	2457.9	2291.3	2154.2	2130.4
10°	4387.6	4121.4	3563.8	3060.7	2779.7	2530.4	2316.2	2072.6	1876.5	1720.2	1677.1
12.5°	4185.9	3887.9	3265.8	2844.3	2578.0	2321.9	2043.1	1761.0	1560.4	1391.5	1313.3
15°	4149.7	3804.1	3182.0	2689.0	2360.4	2051.0	1680.5	1375.7	1169.4	1009.7	960.9
17.5°	4368.4	3954.8	3169.5	2527.0	2076.0	1637.4	1252.2	999.5	767.2	677.6	642.5
20°	4758.2	4221.1	3168.4	2338.9	1783.6	1261.2	879.3	651.6	557.5	514.5	494.1
22.5°	5289.7	4583.7	3228.4	2176.8	1479.9	930.3	627.8	519.0	464.6	429.5	421.5
25°	5939.0	5120.8	3375.7	2066.9	1247.6	729.8	517.9	444.2	398.9	383.0	376.2
27.5°	6515.7	5635.3	3537.8	1953.6	1081.0	645.9	480.5	406.8	370.5	358.1	347.9
30°	7013.2	6102.1	3616.0	1804.0	947.3	591.5	487.3	435.1	387.5	350.2	333.2
32.5°	7427.9	6460.2	3666.9	1668.0	834.0	483.9	385.3	336.6	315.0	301.4	290.1
35°	7946.9	6847.8	3636.4	1591.0	776.2	440.8	351.3	290.1	253.8	226.6	215.3
37.5°	8490.9	7235.3	3583.1	1527.5	750.2	409.1	334.3	275.4	235.7	207.4	192.6
40°	9054.1	7594.5	3520.8	1468.6	726.4	388.7	324.1	262.9	223.2	192.6	176.8
42.5°	9569.6	7944.7	3495.8	1430.1	687.8	392.1	316.2	257.2	210.8	179.0	165.4
45°	9986.7	8276.7	3529.8	1409.7	645.9	386.4	318.4	250.4	200.6	170.0	156.4
47.5°	10432.0	8745.8	3639.8	1389.3	605.1	359.2	335.4	249.3	196.0	164.3	149.6
50°	10949.9	9346.4	3891.3	1339.4	555.3	329.8	356.9	248.2	190.4	157.5	142.8
52.5°	11640.0	10028.6	4150.8	1252.2	482.7	301.4	341.1	244.8	179.0	149.6	134.8
55°	12259.8	10747.0	4370.6	1149.0	390.9	260.6	307.1	230.0	159.8	136.0	122.4
57.5°	12515.9	11152.7	4363.8	1006.3	312.8	228.9	252.7	210.8	139.4	120.1	108.8
59°	12421.8	11101.7	4217.7	900.9	285.6	211.9	209.6	208.5	130.3	108.8	99.7
60°	12289.3	10915.9	4060.2	848.7	268.6	200.6	192.6	206.2	122.4	102.0	92.9
62.5°	11781.6	10145.3	3537.8	760.4	245.9	170.0	154.1	174.5	108.8	88.4	80.5
65°	11046.2	8961.1	2995.0	735.4	239.1	140.5	128.0	124.6	92.9	74.8	68.0
67.5°	9611.6	7583.2	2426.1	718.4	241.4	117.9	112.2	94.1	77.1	62.3	57.8
70°	7695.4	5912.9	1986.5	699.2	243.6	96.3	94.1	74.8	62.3	52.1	47.6
72.5°	4675.5	3504.9	1563.8	607.4	236.8	77.1	83.9	56.7	45.3	37.4	35.1
75°	2890.7	2398.9	970.0	472.5	156.4	56.7	58.9	35.1	30.6	23.8	23.8
77.5°	1674.8	1515.1	346.8	170.0	69.1	34.0	26.1	18.1	17.0	10.2	10.2
80°	694.6	556.4	120.1	57.8	37.4	15.9	5.7	1.1	0.0	0.0	0.0
82.5°	202.8	180.2	32.9	26.1	11.3	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°	4984.8	4984.8	4984.8	4984.8	4984.8	4984.8	4984.8	4984.8	4984.8	4984.8	4984.8
2.5°	4031.8	3994.4	3977.4	4035.2	3982.0	4050.0	3997.8	4020.5	4087.4	4116.8	4192.7
5°	3017.6	2979.1	2961.0	3048.2	3043.7	3086.8	3082.2	3121.9	3155.9	3080.0	3158.2
7.5°	2102.0	2076.0	2119.0	2187.0	2259.5	2235.8	2235.8	2182.5	2200.6	2189.3	2185.9
10°	1598.9	1509.4	1486.7	1484.5	1511.7	1517.3	1486.7	1413.1	1440.3	1448.2	1495.8
12.5°	1257.8	1188.7	1083.3	1035.7	1023.3	1033.5	932.6	868.0	898.6	880.5	926.9
15°	902.0	845.3	783.0	729.8	715.0	694.6	584.7	507.7	498.6	502.0	509.9
17.5°	643.6	605.1	605.1	548.5	517.9	456.7	401.1	367.1	363.7	367.1	372.8
20°	474.8	454.4	452.1	437.4	403.4	362.6	324.1	317.3	315.0	320.7	323.0
22.5°	409.1	387.5	369.4	368.3	336.6	302.6	284.4	275.4	276.5	278.8	284.4
25°	366.0	343.4	324.1	312.8	290.1	266.3	249.3	244.8	244.8	248.2	249.3
27.5°	335.4	307.1	290.1	274.2	253.8	233.4	218.7	215.3	213.0	215.3	221.0
30°	313.9	285.6	264.0	240.2	224.4	205.1	192.6	188.1	187.0	188.1	192.6
32.5°	268.6	251.6	234.6	213.0	193.8	181.3	167.7	159.8	159.8	162.0	166.6
35°	202.8	193.8	192.6	187.0	171.1	157.5	141.6	133.7	133.7	138.2	140.5
37.5°	179.0	162.0	159.8	157.5	150.7	132.6	117.9	111.1	109.9	113.3	117.9
40°	163.2	143.9	133.7	131.4	132.6	112.2	96.3	89.5	89.5	90.7	95.2
42.5°	150.7	128.0	109.9	107.7	112.2	94.1	78.2	71.4	71.4	71.4	77.1
45°	140.5	114.5	92.9	81.6	88.4	77.1	63.5	56.7	54.4	56.7	58.9
47.5°	133.7	104.3	81.6	65.7	65.7	61.2	51.0	43.1	40.8	41.9	45.3
50°	128.0	95.2	69.1	53.3	47.6	48.7	38.5	32.9	30.6	30.6	34.0
52.5°	119.0	86.1	60.1	45.3	36.3	32.9	28.3	23.8	22.7	23.8	26.1
55°	107.7	78.2	52.1	37.4	28.3	22.7	20.4	17.0	15.9	17.0	20.4
57.5°	95.2	65.7	41.9	29.5	19.3	14.7	13.6	11.3	9.1	10.2	12.5
59°	87.3	58.9	36.3	23.8	14.7	10.2	10.2	7.9	5.7	6.8	10.2
60°	83.9	54.4	30.6	20.4	12.5	7.9	7.9	5.7	3.4	4.5	7.9
62.5°	71.4	45.3	23.8	12.5	5.7	1.1	3.4	1.1	0.0	1.1	3.4
65°	60.1	36.3	15.9	5.7	0.0	0.0	0.0	0.0	0.0	0.0	1.1
67.5°	49.9	27.2	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	39.7	18.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	27.2	10.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	17.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	6.8	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: P453247  
 CATALOG NUMBER: GALN-SA4B-730-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4984.8	4984.8	4984.8	4984.8	4984.8	4984.8	4984.8	4984.8	4984.8	4984.8
2.5°	4197.3	4359.3	4459.0	4647.1	4839.8	4988.2	5174.1	5340.6	5409.8	5446.0
5°	3237.5	3463.0	3654.5	3941.2	4207.5	4531.6	4860.2	5247.7	5396.2	5434.7
7.5°	2272.0	2502.0	2702.6	3034.6	3414.3	3848.3	4340.1	4831.9	5048.3	5109.5
10°	1640.8	1886.7	2131.5	2463.5	2818.2	3288.5	3800.7	4409.2	4658.5	4706.1
12.5°	1035.7	1299.7	1697.5	2107.7	2482.8	2861.3	3397.3	4059.0	4334.4	4421.6
15°	600.6	797.8	1098.0	1632.9	2110.0	2610.8	3195.5	3927.6	4235.8	4325.3
17.5°	402.3	470.3	676.5	1085.6	1715.6	2379.7	3144.6	4035.2	4376.3	4490.8
20°	338.8	369.4	441.9	661.8	1321.3	2173.4	3158.2	4327.6	4775.2	4918.0
22.5°	298.0	326.4	372.8	475.9	922.4	1917.3	3222.7	4745.7	5323.6	5506.1
25°	262.9	291.2	332.0	394.3	619.8	1621.6	3364.4	5357.6	6050.0	6250.6
27.5°	233.4	259.5	294.6	347.9	477.1	1291.8	3490.2	5953.7	6712.9	6876.1
30°	206.2	227.8	261.8	302.6	396.6	996.1	3553.6	6475.0	7195.6	7377.0
32.5°	179.0	199.4	232.3	265.2	326.4	759.2	3509.4	6858.0	7664.8	7780.4
35°	153.0	174.5	201.7	232.3	282.2	613.0	3288.5	7288.6	8150.9	8241.6
37.5°	131.4	149.6	177.9	201.7	255.0	490.7	3021.0	7676.1	8696.0	8826.3
40°	111.1	129.2	157.5	179.0	234.6	386.4	2779.7	8106.7	9270.5	9431.4
42.5°	90.7	112.2	137.1	172.2	201.7	294.6	2487.3	8455.7	9702.2	9903.9
45°	72.5	96.3	123.5	171.1	175.6	224.4	2205.2	8727.7	10084.1	10265.4
47.5°	57.8	81.6	119.0	159.8	143.9	177.9	2044.2	9012.1	10401.4	10546.4
50°	46.5	68.0	124.6	140.5	120.1	150.7	2039.7	9329.4	10565.7	10662.0
52.5°	37.4	55.5	105.4	107.7	102.0	132.6	2162.1	9686.4	10733.4	10812.7
55°	31.7	46.5	69.1	79.3	91.8	120.1	2253.9	10236.0	11133.4	11208.2
57.5°	24.9	39.7	53.3	63.5	81.6	109.9	2266.3	10659.8	11640.0	11688.7
59°	21.5	34.0	47.6	56.7	74.8	103.1	2215.4	10685.8	11672.8	11751.0
60°	18.1	30.6	41.9	53.3	69.1	97.5	2159.8	10496.6	11550.4	11637.7
62.5°	13.6	23.8	30.6	43.1	56.7	83.9	1896.9	9835.9	11082.4	11143.6
65°	9.1	17.0	22.7	31.7	44.2	72.5	1545.6	8979.3	10359.5	10496.6
67.5°	5.7	12.5	18.1	23.8	36.3	61.2	1101.4	7699.9	9347.5	9435.9
70°	3.4	7.9	13.6	19.3	28.3	48.7	653.8	6086.3	7777.0	7795.1
72.5°	2.3	5.7	9.1	13.6	22.7	44.2	317.3	3967.2	5678.3	5894.8
75°	1.1	3.4	5.7	10.2	18.1	36.3	151.8	2650.5	4131.5	4193.9
77.5°	0.0	1.1	3.4	6.8	13.6	28.3	88.4	1740.6	2817.1	2881.7
80°	0.0	0.0	2.3	5.7	10.2	18.1	53.3	1026.7	1706.6	1738.3
82.5°	0.0	0.0	1.1	4.5	6.8	13.6	27.2	451.0	1117.3	1128.6
85°	0.0	0.0	1.1	4.5	5.7	9.1	10.2	61.2	496.3	505.4
87.5°	0.0	0.0	1.1	5.7	5.7	5.7	5.7	3.4	41.9	52.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)