

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: P453481

Luminaire Tested: **GALN-SA4C-730-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453481
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4C-730-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18190 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

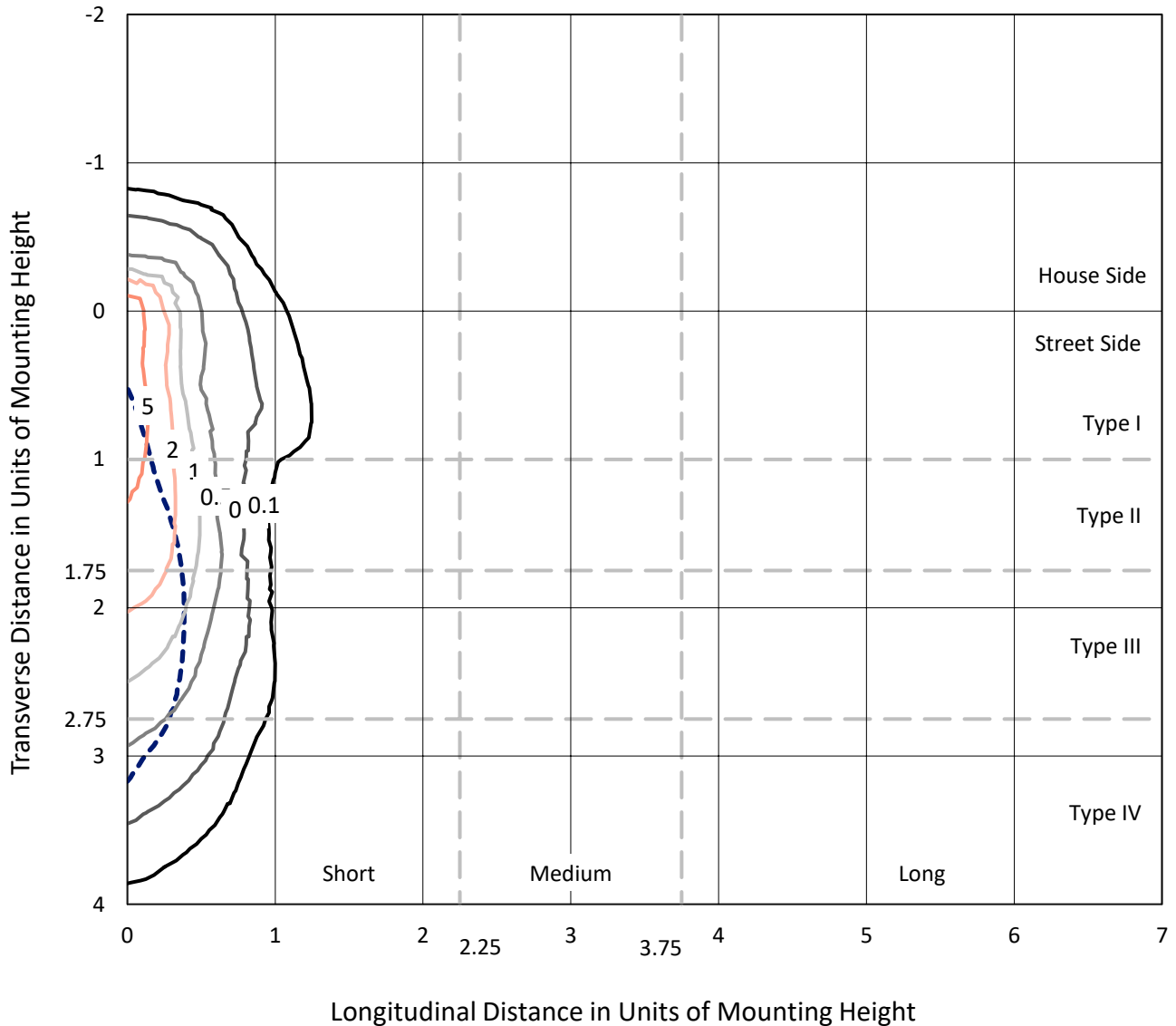
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

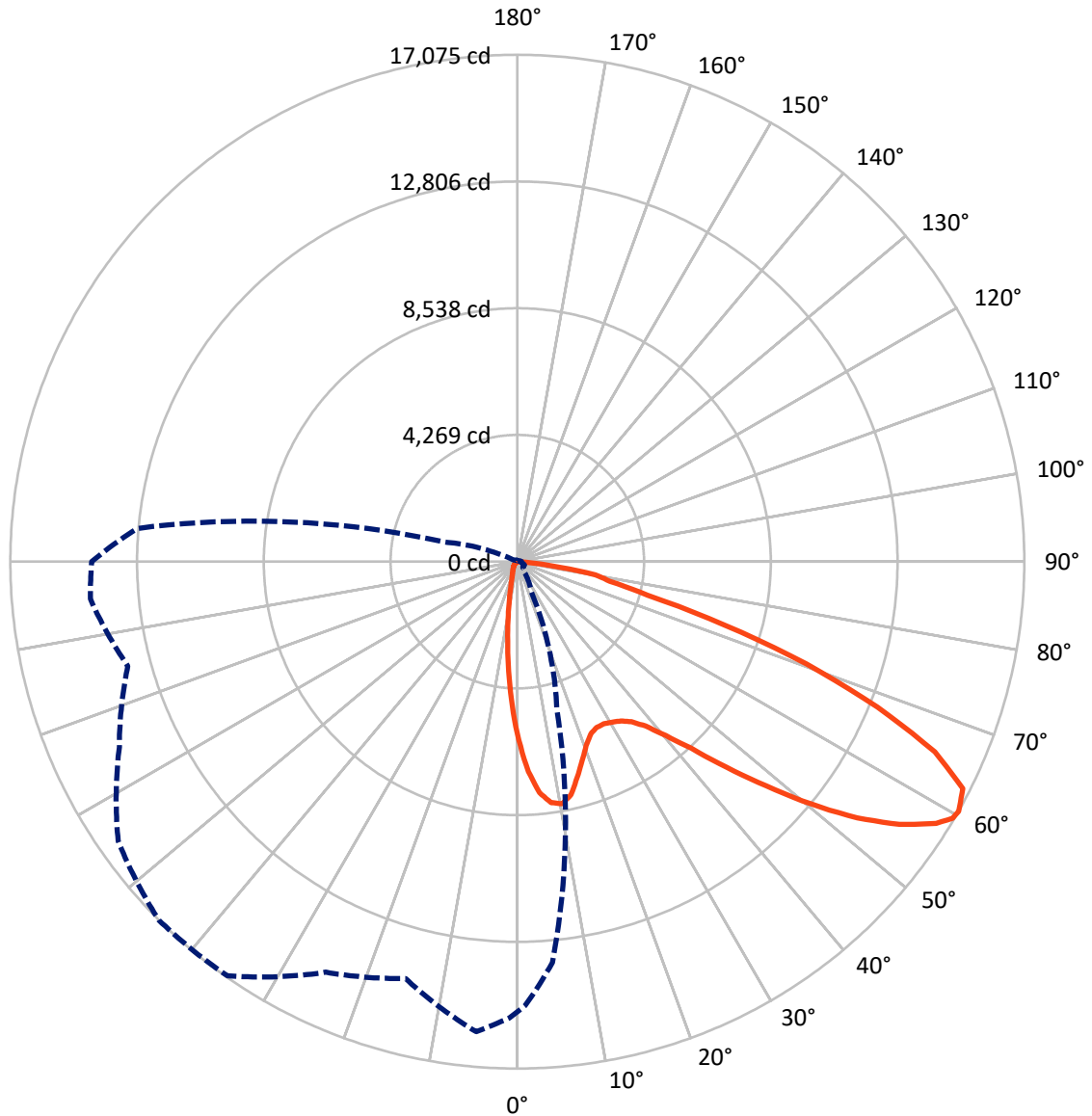
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2243.6	0.0	2243.6
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	15946.4	0.0	15946.4
	% Fixture	87.7	0.0	87.7
Total	Lumens	18190.0	0.0	18190.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.2	2.5
10°-20°	888.1	4.9
20°-30°	1302.1	7.2
30°-40°	1936.5	10.6
40°-50°	2818.2	15.5
50°-60°	4064.1	22.3
60°-70°	4470.0	24.6
70°-80°	2002.2	11.0
80°-90°	261.6	1.4
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°	18190.0	100.0
0°-180°	18190.0	100.0

Coefficient of Utilization



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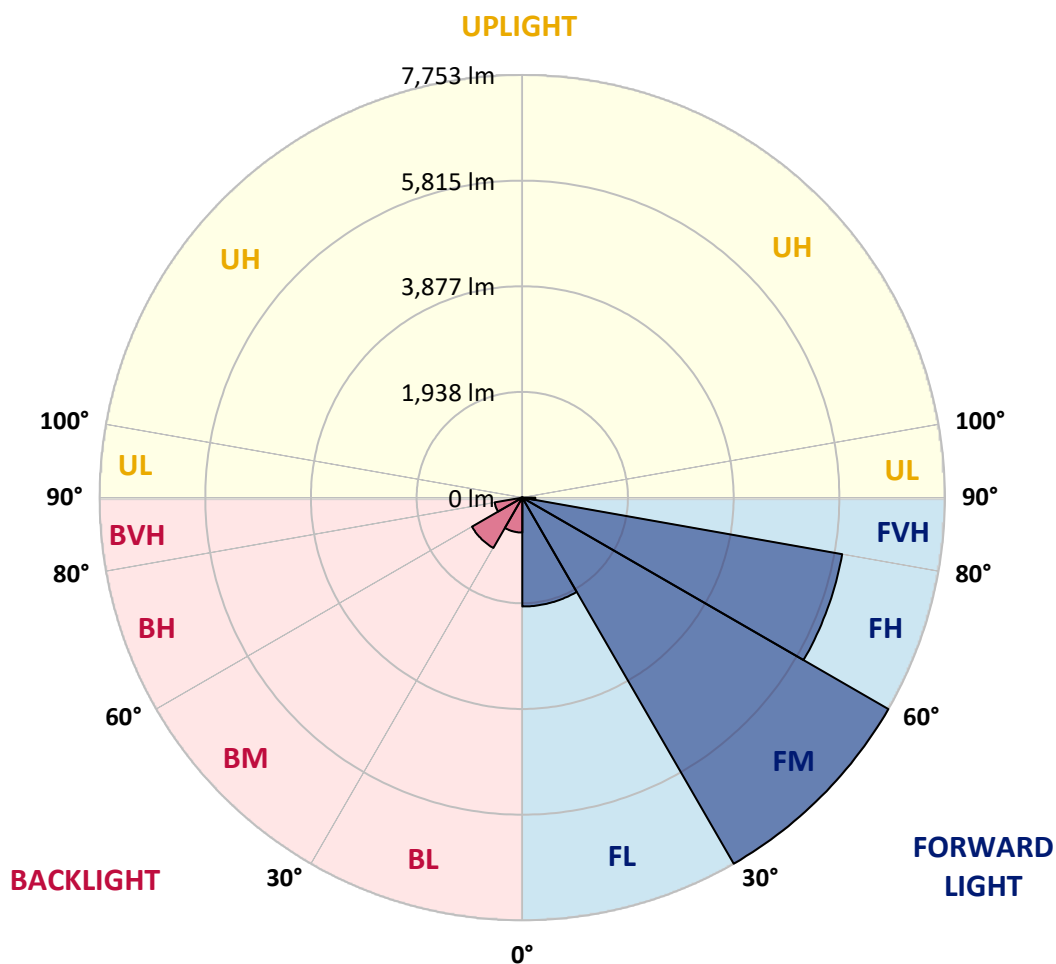
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1996.3	11.0			
FM	(30°-60°)	7753.1	42.6			
FH	(60°-80°)	5957.8	32.8			G3/7500
FVH	(80°-90°)	239.3	1.3			G3/500
BL	(0°-30°)	641.1	3.5	B2/1000		
BM	(30°-60°)	1065.6	5.9	B2/2500		
BH	(60°-80°)	514.5	2.8	B2/1000		G2/1000
BVH	(80°-90°)	22.4	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6012.1	6012.1	6012.1	6012.1	6012.1	6012.1	6012.1	6012.1	6012.1	6012.1	6012.1
2.5°	6609.4	6580.4	6514.0	6312.1	6136.5	5907.0	5674.7	5492.2	5380.2	5174.1	5080.1
5°	6403.4	6417.2	6225.0	5810.2	5348.4	5033.1	4688.8	4415.0	4113.6	3922.8	3722.3
7.5°	5865.5	5837.8	5629.0	5051.1	4489.7	4033.4	3597.8	3243.9	3021.2	2842.9	2693.5
10°	5405.0	5384.3	5117.4	4373.5	3770.7	3429.1	3134.6	2824.9	2585.7	2324.3	2115.6
12.5°	5116.1	5069.0	4762.1	3985.0	3494.1	3176.1	2855.3	2533.1	2202.7	1938.6	1685.5
15°	5019.3	4951.5	4610.0	3850.9	3317.1	2913.4	2511.0	2140.4	1760.2	1468.4	1277.6
17.5°	5194.9	5082.9	4719.2	3827.4	3105.6	2570.5	2075.5	1592.9	1197.4	974.8	857.3
20°	5597.2	5468.6	4995.8	3803.9	2870.5	2186.1	1577.7	1125.5	828.2	706.6	641.6
22.5°	6194.6	6017.6	5405.0	3841.2	2653.4	1811.4	1139.4	795.1	658.2	582.1	536.5
25°	6912.2	6764.3	5923.6	3973.9	2482.0	1516.8	880.8	649.9	554.5	507.5	472.9
27.5°	7699.0	7462.5	6594.2	4132.9	2325.7	1288.7	772.9	580.7	493.6	450.8	432.8
30°	8259.0	8075.1	7155.6	4243.6	2130.8	1117.2	706.6	572.4	495.0	443.9	410.7
32.5°	8812.1	8577.0	7625.7	4294.7	1988.3	998.3	611.2	499.2	434.2	407.9	374.7
35°	9403.9	9157.7	8094.4	4267.1	1881.9	919.5	554.5	445.2	372.0	327.7	294.5
37.5°	10002.6	9742.6	8560.4	4167.5	1815.5	887.7	510.2	423.1	351.2	305.6	269.6
40°	10713.3	10366.2	8997.3	4085.9	1746.4	871.1	481.2	409.3	336.0	287.6	251.7
42.5°	11294.0	10963.6	9410.8	4043.1	1699.4	832.4	481.2	398.2	326.3	272.4	235.1
45°	11844.4	11501.4	9857.4	4077.6	1680.0	784.0	486.7	396.8	319.4	261.3	224.0
47.5°	12304.8	12007.5	10316.5	4207.6	1655.1	731.5	457.7	416.2	315.3	251.7	212.9
50°	12848.2	12560.6	10923.5	4470.3	1610.9	678.9	421.7	448.0	313.9	243.4	203.3
52.5°	13614.2	13303.1	11761.4	4769.0	1540.3	598.7	388.5	443.9	308.3	229.5	193.6
55°	14550.3	14298.7	12732.1	5127.1	1443.6	508.8	336.0	394.1	291.8	206.0	177.0
57.5°	15150.4	14936.1	13459.4	5282.0	1295.6	416.2	295.9	330.5	266.9	183.9	157.6
59°	15221.0	15027.4	13611.5	5230.8	1198.8	380.2	276.5	283.5	260.0	171.5	146.6
60°	15161.5	14961.0	13550.6	5131.3	1108.9	355.4	260.0	251.7	261.3	164.5	138.3
62.5°	14779.9	14437.0	12960.2	4626.6	969.3	326.3	230.9	206.0	230.9	148.0	123.1
65°	14042.9	13528.5	11791.8	3915.9	914.0	309.7	196.3	172.8	175.6	130.0	106.5
67.5°	12755.6	12107.1	10236.3	3181.6	890.5	311.1	165.9	154.9	135.5	110.6	94.0
70°	10720.2	10073.1	8213.3	2617.5	879.4	311.1	141.0	132.7	113.4	92.6	81.6
72.5°	7596.6	6899.8	5540.5	2056.1	792.3	309.7	120.3	120.3	92.6	77.4	66.4
75°	4292.0	4297.5	3483.1	1454.6	658.2	255.8	96.8	95.4	67.8	59.5	49.8
77.5°	2501.3	2457.1	2347.9	625.0	305.6	116.1	67.8	58.1	47.0	42.9	36.0
80°	1285.9	1057.8	1030.1	226.8	109.2	73.3	47.0	33.2	30.4	27.7	24.9
82.5°	380.2	381.6	340.1	91.3	60.8	48.4	23.5	18.0	16.6	15.2	15.2
85°	26.3	16.6	19.4	27.7	37.3	19.4	1.4	4.1	4.1	5.5	6.9
87.5°	2.8	1.4	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°	6012.1	6012.1	6012.1	6012.1	6012.1	6012.1	6012.1	6012.1	6012.1	6012.1	6012.1
2.5°	4976.4	5037.2	4923.9	4926.6	4832.6	4863.0	4752.4	4788.4	4723.4	4773.1	4919.7
5°	3744.4	3758.2	3667.0	3637.9	3651.8	3708.4	3730.6	3629.6	3672.5	3588.2	3582.6
7.5°	2638.2	2654.8	2602.3	2595.4	2694.9	2671.4	2714.3	2610.6	2512.4	2555.3	2476.4
10°	2049.2	1980.1	1872.2	1841.8	1822.4	1834.9	1834.9	1740.8	1727.0	1689.7	1746.4
12.5°	1617.8	1533.4	1431.1	1292.8	1258.3	1255.5	1204.3	1121.4	1095.1	1063.3	1110.3
15°	1175.3	1140.7	1055.0	977.6	898.8	883.6	800.6	732.8	643.0	630.5	626.4
17.5°	826.9	775.7	774.3	730.1	684.4	654.0	576.6	499.2	464.6	460.4	460.4
20°	619.5	601.5	572.4	566.9	553.1	518.5	449.4	407.9	391.3	392.7	398.2
22.5°	521.3	508.8	482.6	470.1	464.6	434.2	383.0	355.4	347.1	347.1	348.4
25°	466.0	454.9	425.9	406.5	399.6	377.5	337.4	316.6	309.7	309.7	309.7
27.5°	424.5	410.7	380.2	363.7	351.2	326.3	301.4	280.7	273.8	273.8	275.2
30°	395.5	380.2	352.6	330.5	311.1	289.0	268.2	250.3	242.0	240.6	242.0
32.5°	356.7	342.9	315.3	301.4	279.3	253.0	236.4	219.9	211.6	212.9	211.6
35°	277.9	273.8	254.4	258.6	246.1	224.0	208.8	190.8	181.1	179.8	182.5
37.5°	253.0	236.4	214.3	215.7	211.6	203.3	178.4	159.0	152.1	152.1	153.5
40°	233.7	217.1	192.2	179.8	181.1	181.1	154.9	134.1	127.2	125.8	128.6
42.5°	217.1	200.5	172.8	152.1	146.6	153.5	131.4	110.6	103.7	100.9	103.7
45°	206.0	188.0	156.2	132.7	116.1	124.4	107.9	91.3	83.0	83.0	81.6
47.5°	195.0	178.4	143.8	114.8	96.8	92.6	88.5	73.3	65.0	63.6	65.0
50°	185.3	168.7	130.0	99.6	81.6	71.9	71.9	58.1	52.5	49.8	51.2
52.5°	175.6	157.6	117.5	88.5	70.5	58.1	51.2	47.0	42.9	41.5	42.9
55°	161.8	143.8	105.1	76.0	60.8	48.4	40.1	38.7	36.0	33.2	36.0
57.5°	145.2	128.6	92.6	65.0	48.4	37.3	33.2	31.8	29.0	27.7	27.7
59°	135.5	120.3	85.7	56.7	42.9	33.2	30.4	29.0	26.3	23.5	24.9
60°	130.0	117.5	81.6	52.5	38.7	30.4	27.7	26.3	23.5	22.1	23.5
62.5°	114.8	105.1	71.9	42.9	30.4	22.1	19.4	20.7	19.4	18.0	19.4
65°	100.9	92.6	60.8	33.2	23.5	15.2	13.8	18.0	16.6	15.2	16.6
67.5°	89.9	80.2	51.2	24.9	16.6	8.3	9.7	15.2	15.2	13.8	15.2
70°	77.4	69.1	41.5	18.0	8.3	4.1	6.9	11.1	13.8	12.4	13.8
72.5°	63.6	53.9	31.8	12.4	4.1	0.0	4.1	9.7	13.8	12.4	13.8
75°	49.8	40.1	23.5	6.9	0.0	0.0	1.4	8.3	13.8	12.4	13.8
77.5°	36.0	29.0	13.8	1.4	0.0	0.0	1.4	8.3	13.8	12.4	13.8
80°	23.5	20.7	5.5	0.0	0.0	0.0	1.4	8.3	13.8	13.8	15.2
82.5°	15.2	11.1	0.0	0.0	0.0	0.0	2.8	11.1	15.2	16.6	16.6
85°	6.9	0.0	0.0	0.0	0.0	0.0	5.5	13.8	18.0	18.0	18.0
87.5°	0.0	0.0	0.0	0.0	0.0	2.8	9.7	16.6	20.7	20.7	20.7
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°	6012.1	6012.1	6012.1	6012.1	6012.1	6012.1	6012.1	6012.1	6012.1	6012.1	6012.1
2.5°	4944.6	5031.7	5154.8	5344.2	5497.7	5739.7	5924.9	6178.0	6433.8	6511.2	6631.5
5°	3639.3	3751.3	4030.6	4285.0	4445.4	4957.0	5280.6	5790.8	6248.5	6468.4	6707.6
7.5°	2527.6	2660.3	2873.3	3228.6	3566.0	3982.2	4504.9	5088.4	5759.0	6072.9	6410.3
10°	1774.0	1940.0	2240.0	2531.8	2956.2	3351.7	3867.5	4511.8	5251.6	5622.1	6045.2
12.5°	1120.0	1268.0	1664.8	1992.5	2522.1	2981.1	3456.8	4040.3	4897.6	5277.8	5721.7
15°	640.2	764.6	949.9	1370.3	1957.9	2564.9	3158.1	3835.7	4716.4	5185.2	5665.0
17.5°	477.0	510.2	593.2	831.0	1366.1	2075.5	2883.0	3773.4	4839.5	5389.8	5937.4
20°	401.0	423.1	461.8	555.9	871.1	1598.4	2614.7	3784.5	5237.7	5929.1	6449.0
22.5°	359.5	373.3	405.1	466.0	594.6	1164.2	2300.8	3849.5	5720.3	6591.4	7191.5
25°	315.3	333.2	360.9	413.4	495.0	807.5	1991.1	3994.7	6396.5	7432.1	7996.3
27.5°	280.7	297.3	324.9	373.3	434.2	616.7	1630.2	4119.1	7109.9	8278.3	8740.2
30°	246.1	262.7	290.4	329.1	384.4	499.2	1241.7	4192.4	7802.7	8913.0	9268.4
32.5°	217.1	230.9	257.2	291.8	337.4	423.1	979.0	4116.3	8332.3	9489.6	9727.4
35°	188.0	204.6	226.8	258.6	298.7	360.9	814.4	3853.6	8787.2	10082.8	10168.5
37.5°	157.6	177.0	200.5	229.5	261.3	331.9	654.0	3563.3	9273.9	10822.5	10681.5
40°	132.7	150.7	172.8	204.6	233.7	304.2	503.3	3253.5	9799.3	11516.7	11241.5
42.5°	107.9	127.2	153.5	182.5	230.9	265.5	389.9	2932.7	10270.8	12120.9	11747.6
45°	85.7	102.3	130.0	167.3	229.5	228.1	301.4	2616.1	10626.2	12552.3	12125.0
47.5°	67.8	81.6	109.2	163.2	211.6	193.6	242.0	2419.8	10999.5	12940.9	12414.0
50°	53.9	67.8	94.0	170.1	185.3	165.9	203.3	2451.6	11360.4	13138.6	12532.9
52.5°	45.6	59.5	81.6	134.1	142.4	145.2	178.4	2598.1	11826.4	13350.1	12769.4
55°	40.1	52.5	69.1	94.0	110.6	130.0	163.2	2704.6	12450.0	13803.7	13290.7
57.5°	31.8	45.6	62.2	80.2	91.3	113.4	150.7	2712.9	13014.1	14385.8	13983.4
59°	29.0	41.5	58.1	76.0	81.6	102.3	142.4	2642.4	13034.9	14472.9	14301.4
60°	26.3	40.1	55.3	70.5	77.4	96.8	135.5	2560.8	12846.8	14334.6	14432.8
62.5°	22.1	34.6	48.4	56.7	66.4	80.2	117.5	2264.9	11935.6	13708.3	14189.4
65°	19.4	30.4	41.5	47.0	55.3	69.1	103.7	1812.7	10929.0	12859.3	13492.6
67.5°	18.0	27.7	36.0	40.1	48.4	63.6	92.6	1280.4	9625.1	11782.1	12445.8
70°	16.6	26.3	31.8	37.3	42.9	53.9	78.8	746.7	7414.1	9893.3	10594.4
72.5°	16.6	24.9	27.7	31.8	37.3	48.4	73.3	403.8	5069.0	7546.9	8452.6
75°	16.6	23.5	24.9	27.7	33.2	44.2	65.0	211.6	3277.0	5243.3	6471.1
77.5°	16.6	22.1	24.9	26.3	31.8	38.7	56.7	132.7	2183.3	3672.5	4373.5
80°	18.0	22.1	23.5	26.3	30.4	36.0	47.0	88.5	1283.2	2209.6	2661.7
82.5°	19.4	22.1	24.9	27.7	31.8	34.6	41.5	55.3	591.8	1461.5	1653.7
85°	20.7	23.5	26.3	29.0	33.2	34.6	38.7	40.1	96.8	659.6	891.9
87.5°	22.1	24.9	27.7	30.4	36.0	36.0	36.0	36.0	33.2	70.5	179.8
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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CATALOG NUMBER: GALN-SA4C-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6012.1	6012.1	6012.1	6012.1	6012.1	6012.1	6012.1	6012.1	6012.1	6012.1
2.5°	6783.6	6939.9	7049.1	7076.7	6997.9	6962.0	6862.4	6707.6	6613.5	6609.4
5°	7148.6	7515.1	7769.5	7812.4	7660.3	7403.1	7097.5	6703.4	6472.5	6403.4
7.5°	7086.4	7728.0	8137.3	8196.7	7940.9	7450.1	6858.3	6223.6	5972.0	5865.5
10°	6830.6	7613.2	8198.1	8292.2	7950.6	7259.3	6507.1	5799.1	5486.6	5405.0
12.5°	6612.2	7403.1	7923.0	8052.9	7794.4	7104.4	6296.9	5526.7	5192.1	5116.1
15°	6516.7	7154.2	7472.2	7538.6	7495.7	7007.6	6274.8	5485.2	5102.2	5019.3
17.5°	6612.2	6942.6	6982.7	7050.5	7145.9	6997.9	6487.7	5710.6	5297.2	5194.9
20°	6862.4	6758.7	6592.8	6621.8	6840.3	7038.0	6866.6	6209.8	5706.5	5597.2
22.5°	7288.3	6713.1	6337.0	6312.1	6588.6	7172.2	7422.4	6885.9	6302.4	6194.6
25°	7811.0	6827.9	6243.0	6189.0	6490.5	7368.5	8026.7	7714.2	7076.7	6912.2
27.5°	8380.6	7065.7	6243.0	6190.4	6482.2	7542.7	8543.8	8447.0	7878.7	7699.0
30°	8693.1	7262.0	6332.8	6273.4	6584.5	7643.7	8820.4	9098.3	8481.6	8259.0
32.5°	8972.5	7534.4	6508.5	6396.5	6798.8	7793.0	9067.9	9651.4	8961.4	8812.1
35°	9229.6	7826.2	6750.4	6620.5	7080.9	7997.6	9341.6	10232.1	9629.2	9403.9
37.5°	9513.1	8164.9	7127.9	7017.3	7552.4	8395.9	9666.6	10995.4	10286.0	10002.6
40°	9821.4	8557.6	7748.7	7701.7	8301.8	8846.6	10077.2	11809.8	11035.5	10713.3
42.5°	10135.3	9009.8	8509.2	8586.7	9150.8	9478.5	10499.0	12436.2	11649.4	11294.0
45°	10420.2	9587.8	9497.9	9880.9	10140.8	10095.2	10811.5	12877.2	12184.5	11844.4
47.5°	10779.7	10429.8	10693.9	11284.4	11291.3	10765.8	11047.9	13238.1	12645.0	12304.8
50°	11182.0	11424.0	12238.4	12839.9	12678.1	11425.4	11324.5	13665.4	13120.6	12848.2
52.5°	11648.0	12537.1	13665.4	14333.2	13955.8	12144.4	11784.9	14127.2	13875.6	13614.2
55°	12190.0	13296.2	15088.2	15620.6	15240.3	13037.6	12484.6	14753.6	14728.7	14550.3
57.5°	12802.6	14098.2	15912.3	16632.7	16293.9	14085.7	13462.1	15344.0	15250.0	15150.4
59°	13286.5	14510.2	16276.0	17022.6	16818.0	14820.0	14118.9	15711.8	15370.3	15221.0
60°	13579.7	14789.5	16410.1	17075.2	17028.2	15256.9	14535.1	15891.6	15368.9	15161.5
62.5°	14449.4	15277.6	16358.9	16841.5	17025.4	16094.8	15756.1	16089.3	15084.1	14779.9
65°	14759.1	15115.9	15511.3	15451.9	15609.5	16052.0	16535.9	15872.2	14475.7	14042.9
67.5°	14156.3	13341.8	13481.5	13084.7	13007.2	14271.0	16219.3	14810.3	13285.1	12755.6
70°	11932.9	10221.0	10150.5	10333.0	9832.5	11554.0	14564.2	12765.2	11320.3	10720.2
72.5°	9392.8	7223.3	6628.7	7300.7	7285.5	8814.8	12098.8	9058.2	7647.8	7596.6
75°	7386.5	5028.9	4413.6	4522.9	4733.0	6381.2	9636.2	5752.1	4709.5	4292.0
77.5°	4958.4	3563.3	3324.1	3189.9	3416.7	4097.0	6096.4	3119.4	2641.0	2501.3
80°	2858.1	2588.4	2939.7	2668.6	2790.3	2581.5	3032.3	1431.1	1187.8	1285.9
82.5°	1859.8	1474.0	1570.8	1167.0	1595.7	1609.5	973.4	423.1	358.1	380.2
85°	1162.9	691.4	388.5	276.5	550.3	1012.1	304.2	26.3	30.4	26.3
87.5°	301.4	114.8	48.4	71.9	88.5	78.8	70.5	4.1	1.4	2.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)