

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: P452553

Luminaire Tested: **GALN-SA3C-730-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452553
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-SA3C-730-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 13726 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

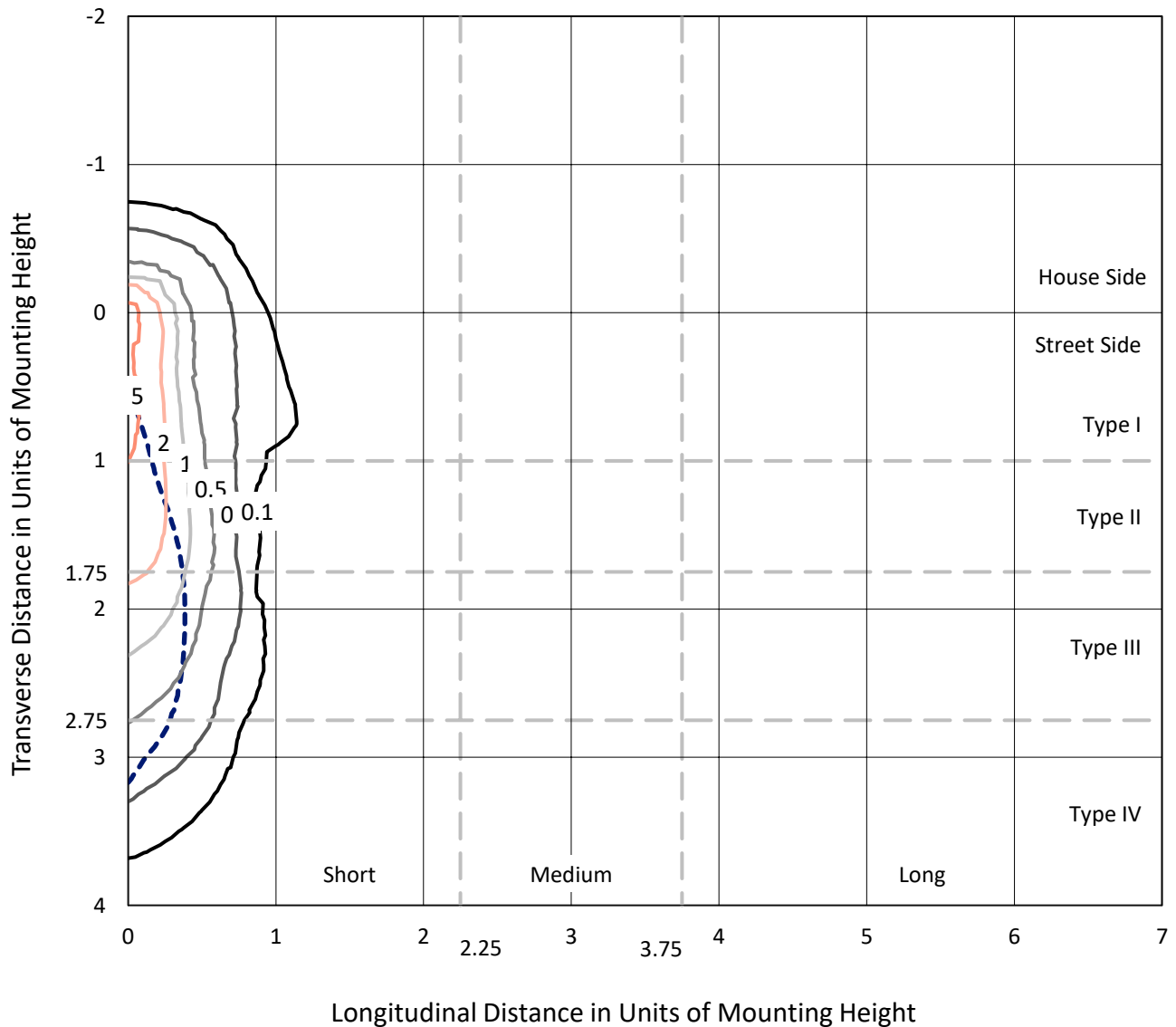
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

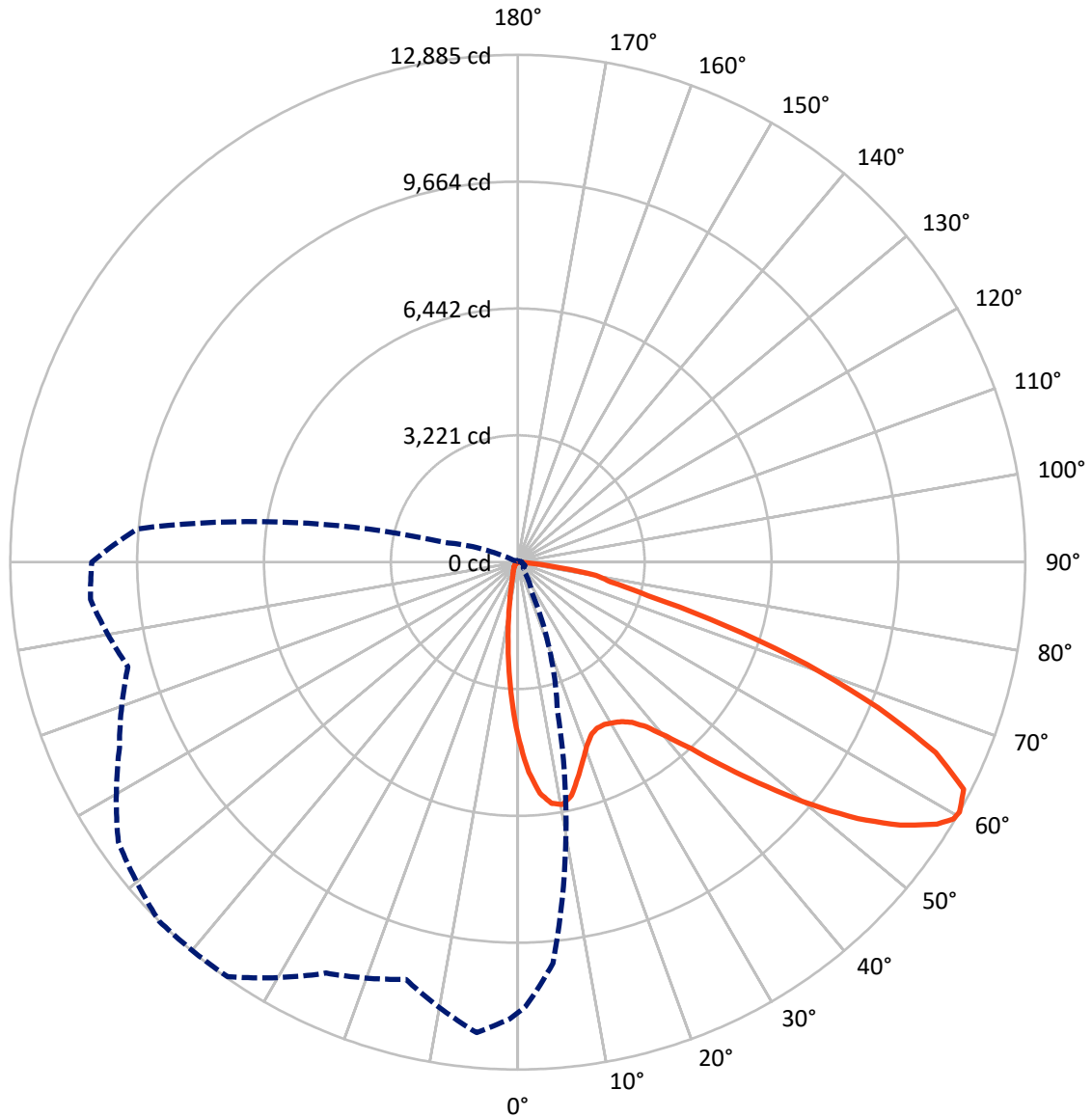
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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	1693.0	0.0	1693.0
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	12033.0	0.0	12033.0
	% Fixture	87.7	0.0	87.7
Total	Lumens	13726.0	0.0	13726.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.4	2.5
10°-20°	670.1	4.9
20°-30°	982.6	7.2
30°-40°	1461.3	10.6
40°-50°	2126.6	15.5
50°-60°	3066.7	22.3
60°-70°	3373.1	24.6
70°-80°	1510.9	11.0
80°-90°	197.4	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°	13726.0	100.0
0°-180°	13726.0	100.0

Coefficient of Utilization



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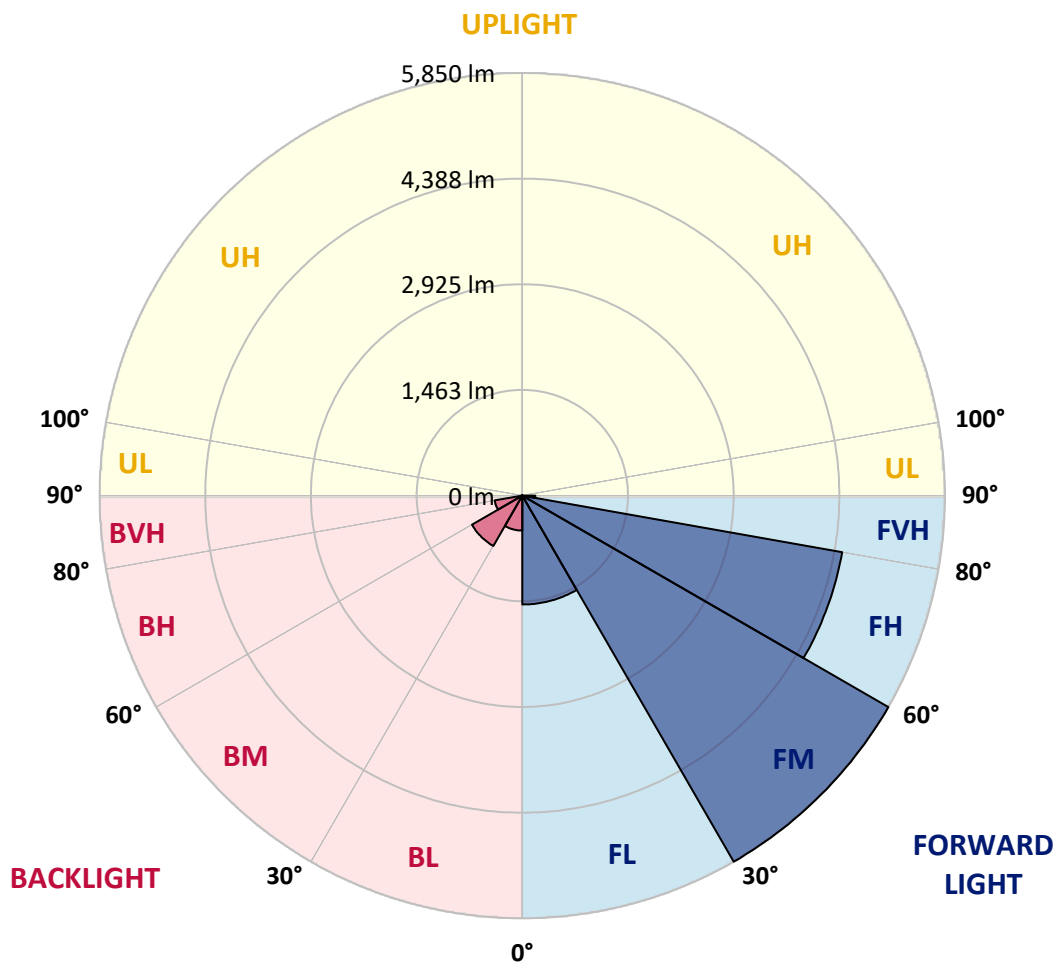
CATALOG NUMBER: GALN-SA3C-730-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1506.4	11.0			
FM (30°-60°)	5850.4	42.6			
FH (60°-80°)	4495.7	32.8			G2/5000
FVH (80°-90°)	180.5	1.3			G2/225
BL (0°-30°)	483.7	3.5	B1/500		
BM (30°-60°)	804.1	5.9	B1/1000		
BH (60°-80°)	388.2	2.8	B1/500		G1/500
BVH (80°-90°)	16.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4536.6	4536.6	4536.6	4536.6	4536.6	4536.6	4536.6	4536.6	4536.6	4536.6	4536.6
2.5°	4987.4	4965.5	4915.4	4763.1	4630.5	4457.3	4282.1	4144.3	4059.8	3904.3	3833.4
5°	4831.9	4842.4	4697.3	4384.3	4035.8	3797.9	3538.1	3331.5	3104.1	2960.1	2808.8
7.5°	4426.0	4405.2	4247.6	3811.5	3387.9	3043.6	2714.9	2447.8	2279.8	2145.2	2032.5
10°	4078.6	4062.9	3861.6	3300.2	2845.3	2587.6	2365.4	2131.6	1951.1	1753.9	1596.4
12.5°	3860.5	3825.1	3593.4	3007.0	2636.6	2396.7	2154.6	1911.5	1662.1	1462.8	1271.9
15°	3787.5	3736.4	3478.6	2905.8	2503.1	2198.4	1894.8	1615.2	1328.2	1108.1	964.1
17.5°	3920.0	3835.5	3561.1	2888.1	2343.4	1939.7	1566.1	1202.0	903.6	735.6	646.9
20°	4223.6	4126.6	3769.8	2870.4	2166.1	1649.6	1190.5	849.3	625.0	533.2	484.1
22.5°	4674.4	4540.8	4078.6	2898.5	2002.3	1366.8	859.7	599.9	496.7	439.3	404.8
25°	5215.9	5104.2	4469.9	2998.7	1872.9	1144.6	664.6	490.4	418.4	382.9	356.8
27.5°	5809.6	5631.2	4975.9	3118.7	1755.0	972.4	583.3	438.2	372.5	340.1	326.6
30°	6232.1	6093.4	5399.5	3202.1	1607.9	843.1	533.2	432.0	373.5	334.9	309.9
32.5°	6649.5	6472.1	5754.3	3240.8	1500.4	753.3	461.2	376.7	327.6	307.8	282.8
35°	7096.1	6910.3	6108.0	3219.9	1420.0	693.9	418.4	336.0	280.7	247.3	222.2
37.5°	7547.8	7351.7	6459.6	3144.8	1370.0	669.9	385.0	319.3	265.0	230.6	203.5
40°	8084.1	7822.3	6789.3	3083.2	1317.8	657.3	363.1	308.8	253.5	217.0	189.9
42.5°	8522.4	8273.0	7101.3	3050.9	1282.3	628.1	363.1	300.5	246.2	205.5	177.4
45°	8937.6	8678.9	7438.3	3076.9	1267.7	591.6	367.3	299.5	241.0	197.2	169.0
47.5°	9285.1	9060.8	7784.7	3175.0	1248.9	552.0	345.4	314.1	237.9	189.9	160.7
50°	9695.1	9478.1	8242.7	3373.3	1215.5	512.3	318.2	338.1	236.8	183.6	153.4
52.5°	10273.2	10038.4	8875.0	3598.6	1162.3	451.8	293.2	334.9	232.7	173.2	146.1
55°	10979.5	10789.6	9607.5	3868.9	1089.3	384.0	253.5	297.4	220.2	155.5	133.6
57.5°	11432.4	11270.6	10156.3	3985.7	977.7	314.1	223.3	249.4	201.4	138.8	118.9
59°	11485.6	11339.5	10271.1	3947.1	904.6	286.9	208.7	213.9	196.2	129.4	110.6
60°	11440.7	11289.4	10225.2	3872.0	836.8	268.2	196.2	189.9	197.2	124.2	104.3
62.5°	11152.7	10894.0	9779.7	3491.2	731.4	246.2	174.2	155.5	174.2	111.6	92.9
65°	10596.6	10208.5	8898.0	2954.9	689.7	233.7	148.2	130.4	132.5	98.1	80.3
67.5°	9625.2	9135.9	7724.2	2400.8	671.9	234.8	125.2	116.9	102.3	83.5	71.0
70°	8089.4	7601.1	6197.7	1975.1	663.6	234.8	106.4	100.2	85.6	69.9	61.6
72.5°	5732.4	5206.5	4180.8	1551.5	597.9	233.7	90.8	90.8	69.9	58.4	50.1
75°	3238.7	3242.8	2628.3	1097.6	496.7	193.0	73.0	72.0	51.1	44.9	37.6
77.5°	1887.5	1854.1	1771.7	471.6	230.6	87.6	51.1	43.8	35.5	32.3	27.1
80°	970.3	798.2	777.3	171.1	82.4	55.3	35.5	25.0	23.0	20.9	18.8
82.5°	286.9	288.0	256.7	68.9	45.9	36.5	17.7	13.6	12.5	11.5	11.5
85°	19.8	12.5	14.6	20.9	28.2	14.6	1.0	3.1	3.1	4.2	5.2
87.5°	2.1	1.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4536.6	4536.6	4536.6	4536.6	4536.6	4536.6	4536.6	4536.6	4536.6	4536.6	4536.6
2.5°	3755.1	3801.1	3715.5	3717.6	3646.6	3669.6	3586.1	3613.2	3564.2	3601.8	3712.4
5°	2825.5	2835.9	2767.1	2745.1	2755.6	2798.4	2815.1	2738.9	2771.2	2707.6	2703.4
7.5°	1990.8	2003.3	1963.7	1958.4	2033.6	2015.8	2048.2	1969.9	1895.8	1928.2	1868.7
10°	1546.3	1494.1	1412.7	1389.8	1375.2	1384.6	1384.6	1313.6	1303.2	1275.0	1317.8
12.5°	1220.8	1157.1	1079.9	975.6	949.5	947.4	908.8	846.2	826.4	802.4	837.8
15°	886.9	860.8	796.1	737.7	678.2	666.7	604.1	553.0	485.2	475.8	472.7
17.5°	623.9	585.3	584.3	550.9	516.5	493.5	435.1	376.7	350.6	347.4	347.4
20°	467.4	453.9	432.0	427.8	417.4	391.3	339.1	307.8	295.3	296.3	300.5
22.5°	393.4	384.0	364.1	354.8	350.6	327.6	289.0	268.2	261.9	261.9	262.9
25°	351.6	343.3	321.4	306.8	301.5	284.8	254.6	238.9	233.7	233.7	233.7
27.5°	320.3	309.9	286.9	274.4	265.0	246.2	227.5	211.8	206.6	206.6	207.6
30°	298.4	286.9	266.1	249.4	234.8	218.1	202.4	188.9	182.6	181.5	182.6
32.5°	269.2	258.8	237.9	227.5	210.8	190.9	178.4	165.9	159.6	160.7	159.6
35°	209.7	206.6	192.0	195.1	185.7	169.0	157.6	144.0	136.7	135.6	137.7
37.5°	190.9	178.4	161.7	162.8	159.6	153.4	134.6	120.0	114.8	114.8	115.8
40°	176.3	163.8	145.0	135.6	136.7	136.7	116.9	101.2	96.0	94.9	97.0
42.5°	163.8	151.3	130.4	114.8	110.6	115.8	99.1	83.5	78.3	76.2	78.3
45°	155.5	141.9	117.9	100.2	87.6	93.9	81.4	68.9	62.6	62.6	61.6
47.5°	147.1	134.6	108.5	86.6	73.0	69.9	66.8	55.3	49.0	48.0	49.0
50°	139.8	127.3	98.1	75.1	61.6	54.3	54.3	43.8	39.6	37.6	38.6
52.5°	132.5	118.9	88.7	66.8	53.2	43.8	38.6	35.5	32.3	31.3	32.3
55°	122.1	108.5	79.3	57.4	45.9	36.5	30.3	29.2	27.1	25.0	27.1
57.5°	109.6	97.0	69.9	49.0	36.5	28.2	25.0	24.0	21.9	20.9	20.9
59°	102.3	90.8	64.7	42.8	32.3	25.0	23.0	21.9	19.8	17.7	18.8
60°	98.1	88.7	61.6	39.6	29.2	23.0	20.9	19.8	17.7	16.7	17.7
62.5°	86.6	79.3	54.3	32.3	23.0	16.7	14.6	15.7	14.6	13.6	14.6
65°	76.2	69.9	45.9	25.0	17.7	11.5	10.4	13.6	12.5	11.5	12.5
67.5°	67.8	60.5	38.6	18.8	12.5	6.3	7.3	11.5	11.5	10.4	11.5
70°	58.4	52.2	31.3	13.6	6.3	3.1	5.2	8.3	10.4	9.4	10.4
72.5°	48.0	40.7	24.0	9.4	3.1	0.0	3.1	7.3	10.4	9.4	10.4
75°	37.6	30.3	17.7	5.2	0.0	0.0	1.0	6.3	10.4	9.4	10.4
77.5°	27.1	21.9	10.4	1.0	0.0	0.0	1.0	6.3	10.4	9.4	10.4
80°	17.7	15.7	4.2	0.0	0.0	0.0	1.0	6.3	10.4	10.4	11.5
82.5°	11.5	8.3	0.0	0.0	0.0	0.0	2.1	8.3	11.5	12.5	12.5
85°	5.2	0.0	0.0	0.0	0.0	0.0	4.2	10.4	13.6	13.6	13.6
87.5°	0.0	0.0	0.0	0.0	0.0	2.1	7.3	12.5	15.7	15.7	15.7
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°	4536.6	4536.6	4536.6	4536.6	4536.6	4536.6	4536.6	4536.6	4536.6	4536.6	4536.6
2.5°	3731.1	3796.9	3889.7	4032.7	4148.5	4331.1	4470.9	4661.8	4854.9	4913.3	5004.1
5°	2746.2	2830.7	3041.5	3233.5	3354.5	3740.5	3984.7	4369.7	4715.1	4881.0	5061.5
7.5°	1907.3	2007.5	2168.2	2436.3	2690.9	3004.9	3399.3	3839.7	4345.7	4582.5	4837.1
10°	1338.7	1463.9	1690.3	1910.4	2230.8	2529.2	2918.3	3404.6	3962.8	4242.4	4561.7
12.5°	845.1	956.8	1256.2	1503.5	1903.1	2249.5	2608.5	3048.8	3695.7	3982.6	4317.5
15°	483.1	577.0	716.8	1034.0	1477.4	1935.5	2383.1	2894.4	3559.0	3912.7	4274.7
17.5°	360.0	385.0	447.6	627.1	1030.9	1566.1	2175.5	2847.4	3651.8	4067.1	4480.3
20°	302.6	319.3	348.5	419.4	657.3	1206.2	1973.0	2855.7	3952.3	4474.0	4866.3
22.5°	271.3	281.7	305.7	351.6	448.7	878.5	1736.2	2904.8	4316.5	4973.8	5426.6
25°	237.9	251.5	272.3	312.0	373.5	609.3	1502.5	3014.3	4826.7	5608.2	6033.9
27.5°	211.8	224.3	245.2	281.7	327.6	465.3	1230.2	3108.2	5365.1	6246.7	6595.2
30°	185.7	198.2	219.1	248.3	290.1	376.7	937.0	3163.5	5887.8	6725.7	6993.8
32.5°	163.8	174.2	194.1	220.2	254.6	319.3	738.7	3106.2	6287.4	7160.8	7340.2
35°	141.9	154.4	171.1	195.1	225.4	272.3	614.6	2907.9	6630.7	7608.4	7673.1
37.5°	118.9	133.6	151.3	173.2	197.2	250.4	493.5	2688.8	6998.0	8166.6	8060.2
40°	100.2	113.7	130.4	154.4	176.3	229.5	379.8	2455.1	7394.5	8690.4	8482.7
42.5°	81.4	96.0	115.8	137.7	174.2	200.3	294.2	2213.0	7750.3	9146.3	8864.6
45°	64.7	77.2	98.1	126.2	173.2	172.2	227.5	1974.1	8018.4	9471.9	9149.4
47.5°	51.1	61.6	82.4	123.1	159.6	146.1	182.6	1825.9	8300.1	9765.0	9367.5
50°	40.7	51.1	71.0	128.3	139.8	125.2	153.4	1849.9	8572.5	9914.2	9457.2
52.5°	34.4	44.9	61.6	101.2	107.5	109.6	134.6	1960.5	8924.1	10073.9	9635.7
55°	30.3	39.6	52.2	71.0	83.5	98.1	123.1	2040.9	9394.6	10416.1	10029.0
57.5°	24.0	34.4	47.0	60.5	68.9	85.6	113.7	2047.1	9820.3	10855.4	10551.8
59°	21.9	31.3	43.8	57.4	61.6	77.2	107.5	1993.9	9836.0	10921.1	10791.7
60°	19.8	30.3	41.7	53.2	58.4	73.0	102.3	1932.3	9694.1	10816.8	10890.9
62.5°	16.7	26.1	36.5	42.8	50.1	60.5	88.7	1709.1	9006.5	10344.1	10707.2
65°	14.6	23.0	31.3	35.5	41.7	52.2	78.3	1367.9	8246.9	9703.5	10181.4
67.5°	13.6	20.9	27.1	30.3	36.5	48.0	69.9	966.2	7263.0	8890.7	9391.5
70°	12.5	19.8	24.0	28.2	32.3	40.7	59.5	563.4	5594.6	7465.4	7994.4
72.5°	12.5	18.8	20.9	24.0	28.2	36.5	55.3	304.7	3825.1	5694.8	6378.2
75°	12.5	17.7	18.8	20.9	25.0	33.4	49.0	159.6	2472.8	3956.5	4883.0
77.5°	12.5	16.7	18.8	19.8	24.0	29.2	42.8	100.2	1647.5	2771.2	3300.2
80°	13.6	16.7	17.7	19.8	23.0	27.1	35.5	66.8	968.3	1667.3	2008.5
82.5°	14.6	16.7	18.8	20.9	24.0	26.1	31.3	41.7	446.6	1102.9	1247.9
85°	15.7	17.7	19.8	21.9	25.0	26.1	29.2	30.3	73.0	497.7	673.0
87.5°	16.7	18.8	20.9	23.0	27.1	27.1	27.1	27.1	25.0	53.2	135.6
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-SA3C-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4536.6	4536.6	4536.6	4536.6	4536.6	4536.6	4536.6	4536.6	4536.6	4536.6
2.5°	5118.8	5236.8	5319.2	5340.0	5280.6	5253.4	5178.3	5061.5	4990.5	4987.4
5°	5394.3	5670.8	5862.8	5895.1	5780.4	5586.3	5355.7	5058.3	4884.1	4831.9
7.5°	5347.3	5831.5	6140.3	6185.2	5992.2	5621.8	5175.2	4696.3	4506.4	4426.0
10°	5154.3	5744.9	6186.2	6257.2	5999.5	5477.8	4910.2	4376.0	4140.2	4078.6
12.5°	4989.5	5586.3	5978.6	6076.7	5881.6	5360.9	4751.6	4170.4	3917.9	3860.5
15°	4917.5	5398.5	5638.5	5688.5	5656.2	5287.9	4734.9	4139.1	3850.1	3787.5
17.5°	4989.5	5238.8	5269.1	5320.2	5392.2	5280.6	4895.6	4309.2	3997.2	3920.0
20°	5178.3	5100.1	4974.9	4996.8	5161.6	5310.8	5181.5	4685.8	4306.1	4223.6
22.5°	5499.7	5065.6	4781.8	4763.1	4971.7	5412.0	5600.9	5196.1	4755.8	4674.4
25°	5894.1	5152.2	4710.9	4670.2	4897.7	5560.2	6056.9	5821.0	5340.0	5215.9
27.5°	6324.0	5331.7	4710.9	4671.2	4891.4	5691.7	6447.1	6374.0	5945.2	5809.6
30°	6559.8	5479.9	4778.7	4733.8	4968.6	5767.8	6655.8	6865.5	6400.1	6232.1
32.5°	6770.5	5685.4	4911.2	4826.7	5130.3	5880.5	6842.5	7282.8	6762.2	6649.5
35°	6964.6	5905.6	5093.8	4995.7	5343.2	6034.9	7049.1	7721.1	7266.1	7096.1
37.5°	7178.5	6161.2	5378.7	5295.2	5699.0	6335.4	7294.3	8297.0	7761.7	7547.8
40°	7411.2	6457.5	5847.1	5811.7	6264.5	6675.6	7604.2	8911.6	8327.3	8084.1
42.5°	7648.0	6798.7	6421.0	6479.4	6905.1	7152.4	7922.4	9384.2	8790.5	8522.4
45°	7863.0	7234.8	7167.0	7456.0	7652.2	7617.8	8158.2	9717.0	9194.3	8937.6
47.5°	8134.2	7870.3	8069.5	8515.1	8520.3	8123.8	8336.6	9989.4	9541.8	9285.1
50°	8437.9	8620.4	9235.0	9688.9	9566.8	8621.5	8545.3	10311.8	9900.7	9695.1
52.5°	8789.5	9460.4	10311.8	10815.7	10530.9	9164.1	8892.8	10660.3	10470.4	10273.2
55°	9198.5	10033.2	11385.4	11787.1	11500.2	9838.1	9420.7	11132.9	11114.1	10979.5
57.5°	9660.7	10638.4	12007.3	12550.9	12295.3	10629.0	10158.4	11578.4	11507.5	11432.4
59°	10025.9	10949.3	12281.7	12845.1	12690.7	11183.0	10654.0	11856.0	11598.3	11485.6
60°	10247.1	11160.0	12382.9	12884.8	12849.3	11512.7	10968.1	11991.6	11597.2	11440.7
62.5°	10903.4	11528.4	12344.3	12708.4	12847.2	12145.0	11889.4	12140.8	11382.3	11152.7
65°	11137.1	11406.3	11704.7	11659.8	11778.8	12112.7	12477.8	11977.0	10923.2	10596.6
67.5°	10682.2	10067.6	10173.0	9873.6	9815.1	10768.8	12238.9	11175.7	10024.8	9625.2
70°	9004.4	7712.7	7659.5	7797.2	7419.5	8718.5	10990.0	9632.5	8542.2	8089.4
72.5°	7087.7	5450.6	5002.0	5509.1	5497.6	6651.6	9129.6	6835.2	5771.0	5732.4
75°	5573.8	3794.8	3330.5	3412.9	3571.5	4815.2	7271.4	4340.5	3553.8	3238.7
77.5°	3741.6	2688.8	2508.3	2407.1	2578.2	3091.6	4600.3	2353.9	1992.9	1887.5
80°	2156.7	1953.2	2218.2	2013.7	2105.6	1948.0	2288.1	1079.9	896.3	970.3
82.5°	1403.4	1112.2	1185.3	880.6	1204.1	1214.5	734.5	319.3	270.2	286.9
85°	877.5	521.7	293.2	208.7	415.3	763.8	229.5	19.8	23.0	19.8
87.5°	227.5	86.6	36.5	54.3	66.8	59.5	53.2	3.1	1.0	2.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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