

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: P453713

Luminaire Tested: **GALN-SA4D-730-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453713
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-SA4D-730-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA 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: 20015 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

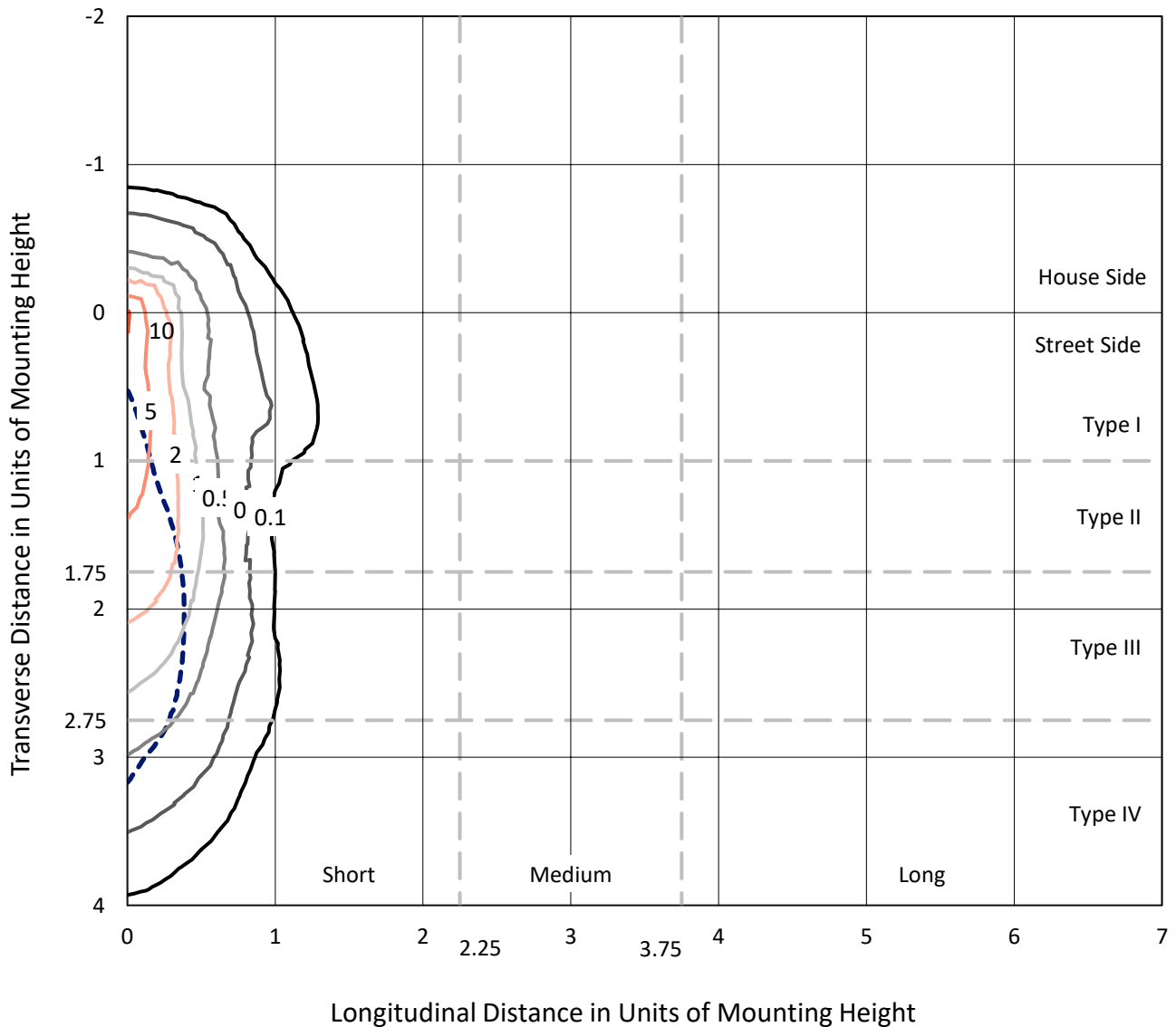
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

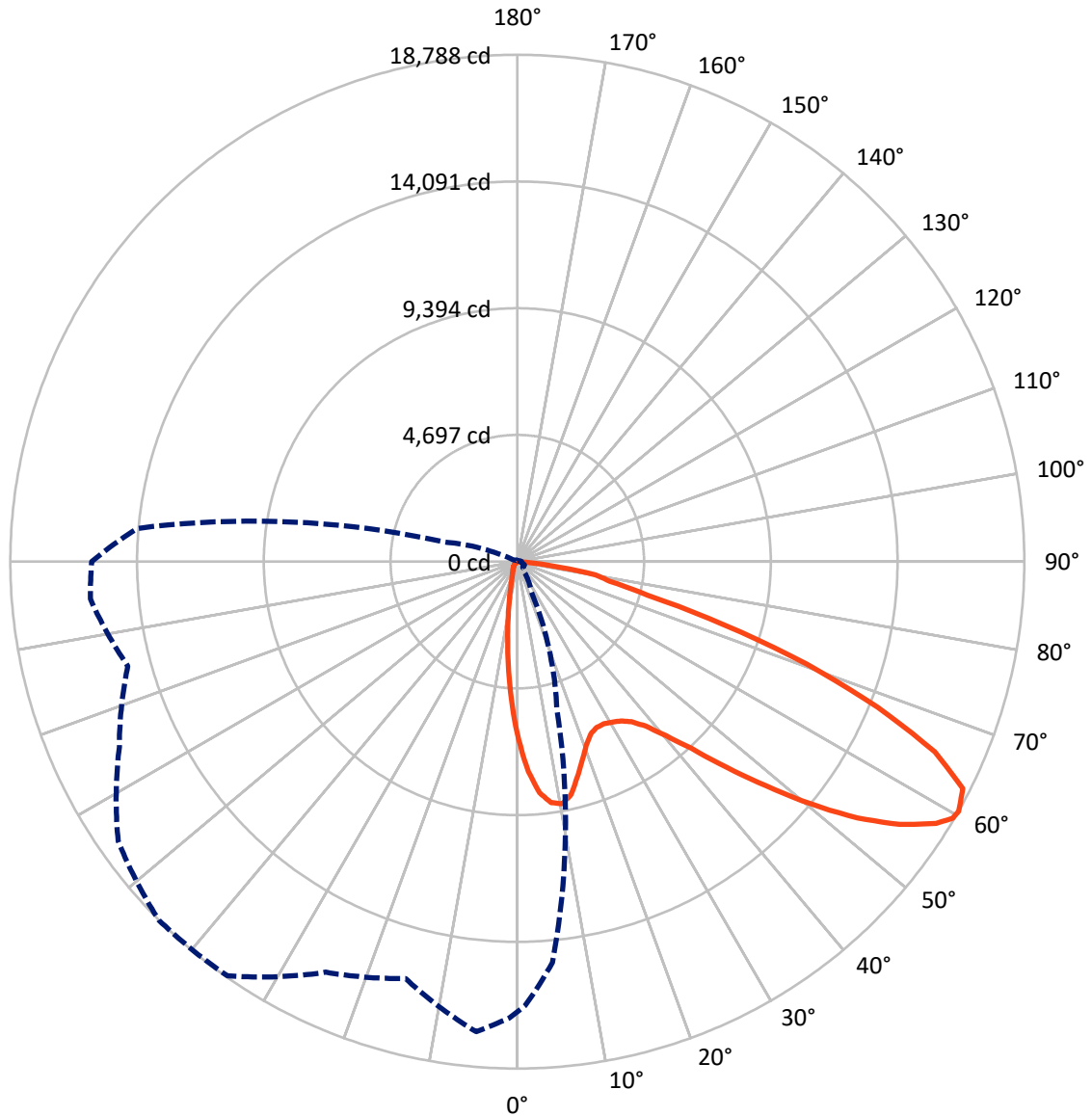
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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	2468.7	0.0	2468.7
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	17546.4	0.0	17546.4
	% Fixture	87.7	0.0	87.7
Total	Lumens	20015.0	0.0	20015.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	492.0	2.5
10°-20°	977.2	4.9
20°-30°	1432.8	7.2
30°-40°	2130.8	10.6
40°-50°	3101.0	15.5
50°-60°	4471.8	22.3
60°-70°	4918.5	24.6
70°-80°	2203.1	11.0
80°-90°	287.9	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°	20015.0	100.0
0°-180°	20015.0	100.0

Coefficient of Utilization



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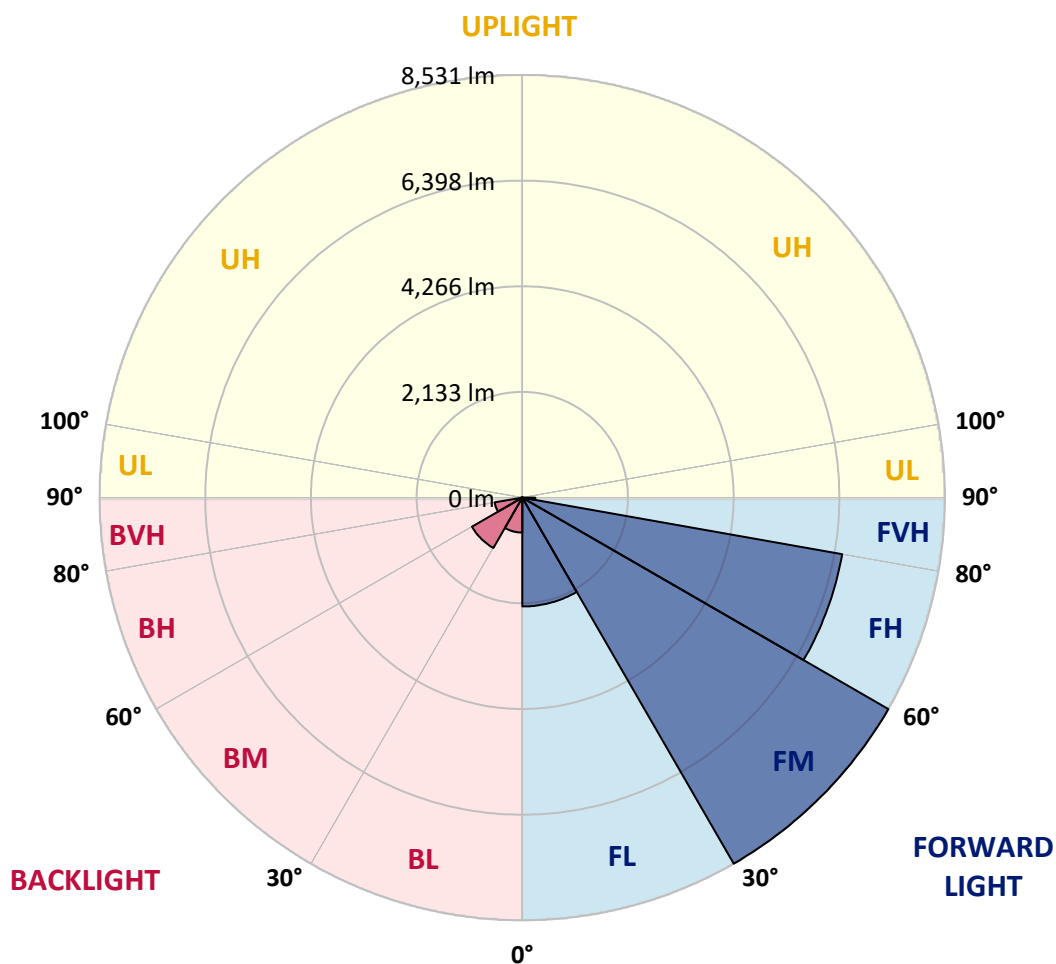
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2196.6	11.0			
FM	(30°-60°)	8531.0	42.6			
FH	(60°-80°)	6555.5	32.8			G3/7500
FVH	(80°-90°)	263.3	1.3			G3/500
BL	(0°-30°)	705.4	3.5	B2/1000		
BM	(30°-60°)	1172.6	5.9	B2/2500		
BH	(60°-80°)	566.1	2.8	B2/1000		G2/1000
BVH	(80°-90°)	24.6	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°	6615.2	6615.2	6615.2	6615.2	6615.2	6615.2	6615.2	6615.2	6615.2	6615.2	6615.2
2.5°	7272.5	7240.6	7167.5	6945.4	6752.2	6499.6	6244.0	6043.2	5919.9	5693.2	5589.8
5°	7045.8	7061.0	6849.5	6393.1	5884.9	5538.1	5159.2	4858.0	4526.3	4316.3	4095.7
7.5°	6454.0	6423.5	6193.8	5557.8	4940.1	4438.1	3958.8	3569.3	3324.4	3128.1	2963.8
10°	5947.3	5924.5	5630.9	4812.3	4149.0	3773.2	3449.1	3108.3	2845.1	2557.5	2327.8
12.5°	5629.3	5577.6	5239.9	4384.8	3844.7	3494.8	3141.8	2787.3	2423.7	2133.1	1854.6
15°	5522.8	5448.3	5072.5	4237.2	3649.9	3205.7	2762.9	2355.2	1936.8	1615.8	1405.8
17.5°	5716.1	5592.8	5192.7	4211.4	3417.2	2828.4	2283.7	1752.7	1317.6	1072.6	943.3
20°	6158.8	6017.3	5497.0	4185.5	3158.5	2405.4	1736.0	1238.5	911.3	777.5	706.0
22.5°	6816.1	6621.3	5947.3	4226.6	2919.7	1993.1	1253.7	874.8	724.2	640.5	590.3
25°	7605.7	7442.9	6517.9	4372.6	2731.0	1669.0	969.2	715.1	610.1	558.4	520.3
27.5°	8471.4	8211.2	7255.8	4547.6	2559.1	1418.0	850.5	639.0	543.2	496.0	476.2
30°	9087.6	8885.2	7873.5	4669.3	2344.5	1229.3	777.5	629.9	544.7	488.4	451.9
32.5°	9696.2	9437.5	8390.8	4725.6	2187.8	1098.5	672.5	549.2	477.7	448.8	412.3
35°	10347.3	10076.5	8906.5	4695.2	2070.7	1011.8	610.1	489.9	409.3	360.6	324.1
37.5°	11006.1	10720.1	9419.3	4585.6	1997.7	976.8	561.4	465.6	386.4	336.2	296.7
40°	11788.2	11406.3	9900.0	4495.9	1921.6	958.5	529.5	450.3	369.7	316.5	276.9
42.5°	12427.2	12063.5	10355.0	4448.7	1869.9	915.9	529.5	438.2	359.1	299.7	258.6
45°	13032.7	12655.4	10846.4	4486.7	1848.6	862.7	535.5	436.7	351.5	287.6	246.5
47.5°	13539.3	13212.2	11351.5	4629.8	1821.2	804.8	503.6	458.0	346.9	276.9	234.3
50°	14137.3	13820.8	12019.4	4918.8	1772.5	747.0	464.0	492.9	345.4	267.8	223.7
52.5°	14980.1	14637.8	12941.4	5247.5	1694.9	658.8	427.5	488.4	339.3	252.6	213.0
55°	16010.2	15733.3	14009.5	5641.5	1588.4	559.9	369.7	433.6	321.0	226.7	194.7
57.5°	16670.5	16434.7	14809.7	5811.9	1425.6	458.0	325.6	363.6	293.6	202.4	173.4
59°	16748.1	16535.1	14977.1	5755.6	1319.1	418.4	304.3	311.9	286.0	188.7	161.3
60°	16682.6	16462.0	14910.2	5646.1	1220.2	391.0	286.0	276.9	287.6	181.1	152.1
62.5°	16262.7	15885.4	14260.5	5090.8	1066.5	359.1	254.1	226.7	254.1	162.8	135.4
65°	15451.8	14885.8	12974.9	4308.7	1005.7	340.8	216.0	190.2	193.2	143.0	117.2
67.5°	14035.3	13321.8	11263.3	3500.8	979.8	342.3	182.6	170.4	149.1	121.7	103.5
70°	11795.8	11083.7	9037.4	2880.1	967.6	342.3	155.2	146.1	124.8	101.9	89.8
72.5°	8358.8	7592.0	6096.4	2262.4	871.8	340.8	132.4	132.4	101.9	85.2	73.0
75°	4722.6	4728.7	3832.5	1600.6	724.2	281.5	106.5	105.0	74.6	65.4	54.8
77.5°	2752.3	2703.6	2583.4	687.7	336.2	127.8	74.6	63.9	51.7	47.2	39.6
80°	1414.9	1163.9	1133.5	249.5	120.2	80.6	51.7	36.5	33.5	30.4	27.4
82.5°	418.4	419.9	374.3	100.4	66.9	53.3	25.9	19.8	18.3	16.7	16.7
85°	28.9	18.3	21.3	30.4	41.1	21.3	1.5	4.6	4.6	6.1	7.6
87.5°	3.0	1.5	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°	6615.2	6615.2	6615.2	6615.2	6615.2	6615.2	6615.2	6615.2	6615.2	6615.2	6615.2
2.5°	5475.7	5542.6	5417.9	5420.9	5317.5	5350.9	5229.2	5268.8	5197.3	5252.0	5413.3
5°	4120.1	4135.3	4034.9	4002.9	4018.1	4080.5	4104.9	3993.8	4041.0	3948.2	3942.1
7.5°	2902.9	2921.2	2863.4	2855.8	2965.3	2939.4	2986.6	2872.5	2764.5	2811.6	2724.9
10°	2254.8	2178.7	2060.0	2026.6	2005.3	2019.0	2019.0	1915.5	1900.3	1859.2	1921.6
12.5°	1780.1	1687.3	1574.7	1422.6	1384.5	1381.5	1325.2	1233.9	1205.0	1170.0	1221.7
15°	1293.2	1255.2	1160.9	1075.7	988.9	972.2	880.9	806.4	707.5	693.8	689.2
17.5°	909.8	853.5	852.0	803.3	753.1	719.6	634.4	549.2	511.2	506.6	506.6
20°	681.6	661.8	629.9	623.8	608.6	570.5	494.5	448.8	430.6	432.1	438.2
22.5°	573.6	559.9	531.0	517.3	511.2	477.7	421.4	391.0	381.9	381.9	383.4
25°	512.7	500.6	468.6	447.3	439.7	415.4	371.2	348.4	340.8	340.8	340.8
27.5°	467.1	451.9	418.4	400.1	386.4	359.1	331.7	308.9	301.2	301.2	302.8
30°	435.1	418.4	388.0	363.6	342.3	318.0	295.2	275.4	266.3	264.7	266.3
32.5°	392.5	377.3	346.9	331.7	307.3	278.4	260.2	241.9	232.8	234.3	232.8
35°	305.8	301.2	279.9	284.5	270.8	246.5	229.7	210.0	199.3	197.8	200.8
37.5°	278.4	260.2	235.8	237.3	232.8	223.7	196.3	175.0	167.4	167.4	168.9
40°	257.1	238.9	211.5	197.8	199.3	199.3	170.4	147.6	140.0	138.5	141.5
42.5°	238.9	220.6	190.2	167.4	161.3	168.9	144.5	121.7	114.1	111.1	114.1
45°	226.7	206.9	171.9	146.1	127.8	136.9	118.7	100.4	91.3	91.3	89.8
47.5°	214.5	196.3	158.2	126.3	106.5	101.9	97.4	80.6	71.5	70.0	71.5
50°	203.9	185.6	143.0	109.5	89.8	79.1	79.1	63.9	57.8	54.8	56.3
52.5°	193.2	173.4	129.3	97.4	77.6	63.9	56.3	51.7	47.2	45.6	47.2
55°	178.0	158.2	115.6	83.7	66.9	53.3	44.1	42.6	39.6	36.5	39.6
57.5°	159.8	141.5	101.9	71.5	53.3	41.1	36.5	35.0	32.0	30.4	30.4
59°	149.1	132.4	94.3	62.4	47.2	36.5	33.5	32.0	28.9	25.9	27.4
60°	143.0	129.3	89.8	57.8	42.6	33.5	30.4	28.9	25.9	24.3	25.9
62.5°	126.3	115.6	79.1	47.2	33.5	24.3	21.3	22.8	21.3	19.8	21.3
65°	111.1	101.9	66.9	36.5	25.9	16.7	15.2	19.8	18.3	16.7	18.3
67.5°	98.9	88.2	56.3	27.4	18.3	9.1	10.7	16.7	16.7	15.2	16.7
70°	85.2	76.1	45.6	19.8	9.1	4.6	7.6	12.2	15.2	13.7	15.2
72.5°	70.0	59.3	35.0	13.7	4.6	0.0	4.6	10.7	15.2	13.7	15.2
75°	54.8	44.1	25.9	7.6	0.0	0.0	1.5	9.1	15.2	13.7	15.2
77.5°	39.6	32.0	15.2	1.5	0.0	0.0	1.5	9.1	15.2	13.7	15.2
80°	25.9	22.8	6.1	0.0	0.0	0.0	1.5	9.1	15.2	15.2	16.7
82.5°	16.7	12.2	0.0	0.0	0.0	0.0	3.0	12.2	16.7	18.3	18.3
85°	7.6	0.0	0.0	0.0	0.0	0.0	6.1	15.2	19.8	19.8	19.8
87.5°	0.0	0.0	0.0	0.0	0.0	3.0	10.7	18.3	22.8	22.8	22.8
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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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	6615.2	6615.2	6615.2	6615.2	6615.2	6615.2	6615.2	6615.2	6615.2	6615.2	6615.2
2.5°	5440.7	5536.5	5671.9	5880.4	6049.3	6315.5	6519.4	6797.8	7079.3	7164.5	7296.9
5°	4004.4	4127.7	4435.0	4715.0	4891.4	5454.4	5810.4	6371.8	6875.4	7117.3	7380.5
7.5°	2781.2	2927.3	3161.6	3552.6	3923.8	4381.8	4956.9	5598.9	6336.8	6682.2	7053.4
10°	1952.0	2134.6	2464.7	2785.8	3252.8	3688.0	4255.5	4964.5	5778.4	6186.2	6651.8
12.5°	1232.4	1395.2	1831.8	2192.4	2775.1	3280.2	3803.6	4445.7	5389.0	5807.4	6295.7
15°	704.4	841.4	1045.2	1507.8	2154.4	2822.3	3475.0	4220.5	5189.6	5705.4	6233.4
17.5°	524.9	561.4	652.7	914.4	1503.2	2283.7	3172.2	4152.0	5325.1	5930.6	6533.1
20°	441.2	465.6	508.2	611.6	958.5	1758.8	2877.1	4164.2	5763.2	6524.0	7096.0
22.5°	395.6	410.8	445.8	512.7	654.2	1281.1	2531.7	4235.7	6294.2	7252.7	7913.0
25°	346.9	366.7	397.1	454.9	544.7	888.5	2190.9	4395.5	7038.2	8177.8	8798.5
27.5°	308.9	327.1	357.5	410.8	477.7	678.6	1793.8	4532.4	7823.3	9108.9	9617.1
30°	270.8	289.1	319.5	362.1	423.0	549.2	1366.3	4613.0	8585.5	9807.2	10198.2
32.5°	238.9	254.1	283.0	321.0	371.2	465.6	1077.2	4529.3	9168.2	10441.7	10703.4
35°	206.9	225.2	249.5	284.5	328.6	397.1	896.1	4240.3	9668.8	11094.4	11188.7
37.5°	173.4	194.7	220.6	252.6	287.6	365.1	719.6	3920.8	10204.3	11908.4	11753.2
40°	146.1	165.8	190.2	225.2	257.1	334.7	553.8	3580.0	10782.5	12672.1	12369.3
42.5°	118.7	140.0	168.9	200.8	254.1	292.1	429.0	3227.0	11301.3	13337.0	12926.2
45°	94.3	112.6	143.0	184.1	252.6	251.0	331.7	2878.6	11692.3	13811.7	13341.6
47.5°	74.6	89.8	120.2	179.5	232.8	213.0	266.3	2662.5	12103.1	14239.2	13659.5
50°	59.3	74.6	103.5	187.1	203.9	182.6	223.7	2697.5	12500.2	14456.8	13790.4
52.5°	50.2	65.4	89.8	147.6	156.7	159.8	196.3	2858.8	13012.9	14689.6	14050.5
55°	44.1	57.8	76.1	103.5	121.7	143.0	179.5	2975.9	13699.1	15188.6	14624.1
57.5°	35.0	50.2	68.5	88.2	100.4	124.8	165.8	2985.1	14319.8	15829.1	15386.4
59°	32.0	45.6	63.9	83.7	89.8	112.6	156.7	2907.5	14342.7	15925.0	15736.3
60°	28.9	44.1	60.9	77.6	85.2	106.5	149.1	2817.7	14135.7	15772.8	15880.8
62.5°	24.3	38.0	53.3	62.4	73.0	88.2	129.3	2492.1	13133.1	15083.6	15613.1
65°	21.3	33.5	45.6	51.7	60.9	76.1	114.1	1994.6	12025.5	14149.4	14846.3
67.5°	19.8	30.4	39.6	44.1	53.3	70.0	101.9	1408.9	10590.8	12964.2	13694.5
70°	18.3	28.9	35.0	41.1	47.2	59.3	86.7	821.6	8158.0	10885.9	11657.3
72.5°	18.3	27.4	30.4	35.0	41.1	53.3	80.6	444.3	5577.6	8304.0	9300.6
75°	18.3	25.9	27.4	30.4	36.5	48.7	71.5	232.8	3605.8	5769.3	7120.4
77.5°	18.3	24.3	27.4	28.9	35.0	42.6	62.4	146.1	2402.4	4041.0	4812.3
80°	19.8	24.3	25.9	28.9	33.5	39.6	51.7	97.4	1411.9	2431.3	2928.8
82.5°	21.3	24.3	27.4	30.4	35.0	38.0	45.6	60.9	651.2	1608.2	1819.6
85°	22.8	25.9	28.9	32.0	36.5	38.0	42.6	44.1	106.5	725.7	981.3
87.5°	24.3	27.4	30.4	33.5	39.6	39.6	39.6	39.6	36.5	77.6	197.8
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-SA4D-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6615.2	6615.2	6615.2	6615.2	6615.2	6615.2	6615.2	6615.2	6615.2	6615.2
2.5°	7464.2	7636.1	7756.3	7786.8	7700.0	7660.5	7550.9	7380.5	7277.1	7272.5
5°	7865.9	8269.1	8549.0	8596.2	8428.8	8145.8	7809.6	7376.0	7121.9	7045.8
7.5°	7797.4	8503.4	8953.7	9019.1	8737.7	8197.5	7546.4	6848.0	6571.1	6454.0
10°	7515.9	8377.1	9020.6	9124.1	8748.3	7987.6	7159.9	6380.9	6037.1	5947.3
12.5°	7275.6	8145.8	8717.9	8860.9	8576.4	7817.2	6928.7	6081.2	5713.0	5629.3
15°	7170.6	7872.0	8221.9	8294.9	8247.8	7710.7	6904.3	6035.6	5614.1	5522.8
17.5°	7275.6	7639.2	7683.3	7757.8	7862.8	7700.0	7138.6	6283.6	5828.7	5716.1
20°	7550.9	7436.8	7254.3	7286.2	7526.6	7744.2	7555.5	6832.8	6279.0	6158.8
22.5°	8019.5	7386.6	6972.8	6945.4	7249.7	7891.7	8167.1	7576.8	6934.7	6816.1
25°	8594.6	7512.9	6869.3	6810.0	7141.7	8107.8	8832.0	8488.1	7786.8	7605.7
27.5°	9221.5	7774.6	6869.3	6811.5	7132.5	8299.5	9401.0	9294.5	8669.2	8471.4
30°	9565.3	7990.6	6968.2	6902.8	7245.1	8410.5	9705.3	10011.1	9332.5	9087.6
32.5°	9872.7	8290.4	7161.4	7038.2	7480.9	8574.9	9977.6	10619.7	9860.5	9696.2
35°	10155.6	8611.4	7427.7	7284.7	7791.3	8800.0	10278.9	11258.7	10595.3	10347.3
37.5°	10467.5	8984.1	7843.0	7721.3	8310.1	9238.2	10636.4	12098.5	11318.0	11006.1
40°	10806.8	9416.2	8526.2	8474.4	9134.8	9734.2	11088.3	12994.7	12142.7	11788.2
42.5°	11152.2	9913.7	9363.0	9448.2	10068.9	10429.5	11552.3	13683.9	12818.2	12427.2
45°	11465.6	10549.7	10450.8	10872.2	11158.3	11108.1	11896.2	14169.2	13407.0	13032.7
47.5°	11861.2	11476.3	11766.9	12416.5	12424.1	11846.0	12156.3	14566.3	13913.6	13539.3
50°	12303.9	12570.2	13466.3	14128.1	13950.1	12571.7	12460.6	15036.4	14437.0	14137.3
52.5°	12816.7	13794.9	15036.4	15771.3	15355.9	13362.9	12967.3	15544.6	15267.7	14980.1
55°	13413.1	14630.2	16602.0	17187.8	16769.4	14345.7	13737.1	16233.8	16206.4	16010.2
57.5°	14087.1	15512.7	17508.8	18301.5	17928.7	15499.0	14812.8	16883.5	16780.0	16670.5
59°	14619.6	15966.0	17908.9	18730.5	18505.3	16306.8	15535.5	17288.2	16912.4	16748.1
60°	14942.1	16273.4	18056.5	18788.3	18736.6	16787.6	15993.4	17486.0	16910.9	16682.6
62.5°	15899.1	16810.4	18000.2	18531.2	18733.6	17709.6	17336.9	17703.5	16597.4	16262.7
65°	16239.9	16632.4	17067.6	17002.1	17175.6	17662.5	18195.0	17464.7	15928.0	15451.8
67.5°	15576.6	14680.4	14834.1	14397.4	14312.2	15702.8	17846.6	16296.2	14618.0	14035.3
70°	13130.1	11246.5	11168.9	11369.8	10819.0	12713.2	16025.4	14046.0	12456.1	11795.8
72.5°	10335.2	7948.0	7293.8	8033.2	8016.5	9699.2	13312.6	9967.0	8415.1	8358.8
75°	8127.6	5533.5	4856.5	4976.6	5207.9	7021.5	10603.0	6329.2	5182.0	4722.6
77.5°	5455.9	3920.8	3657.6	3510.0	3759.5	4508.0	6708.1	3432.4	2906.0	2752.3
80°	3144.8	2848.1	3234.6	2936.4	3070.3	2840.5	3336.5	1574.7	1306.9	1414.9
82.5°	2046.3	1621.9	1728.4	1284.1	1755.7	1771.0	1071.1	465.6	394.1	418.4
85°	1279.5	760.7	427.5	304.3	605.5	1113.7	334.7	28.9	33.5	28.9
87.5°	331.7	126.3	53.3	79.1	97.4	86.7	77.6	4.6	1.5	3.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)