

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: P527743

Luminaire Tested: **GALN-SA2D-735-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527743
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-735-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8012 lumens
Efficiency: N/A
Efficacy: 64.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

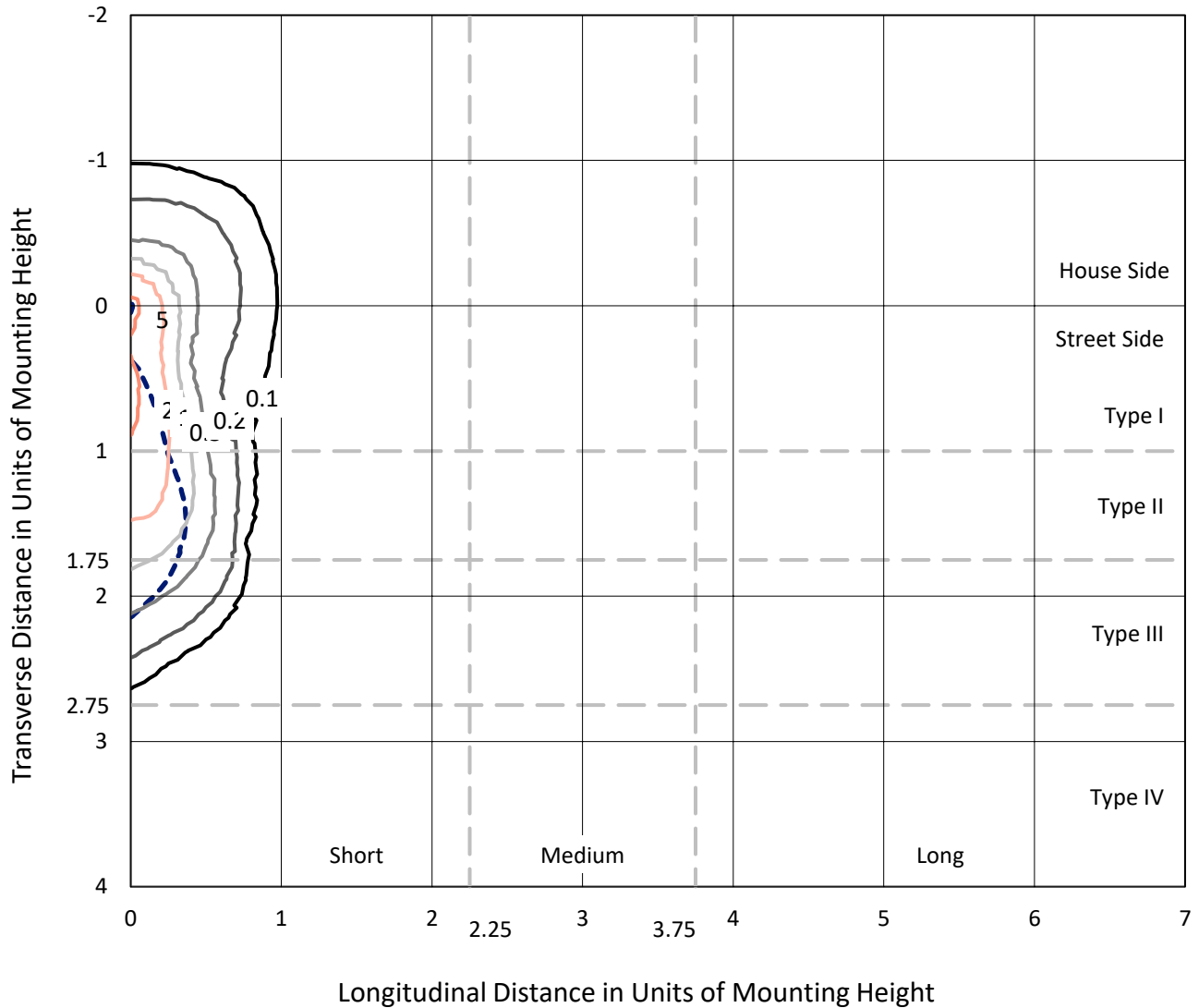
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

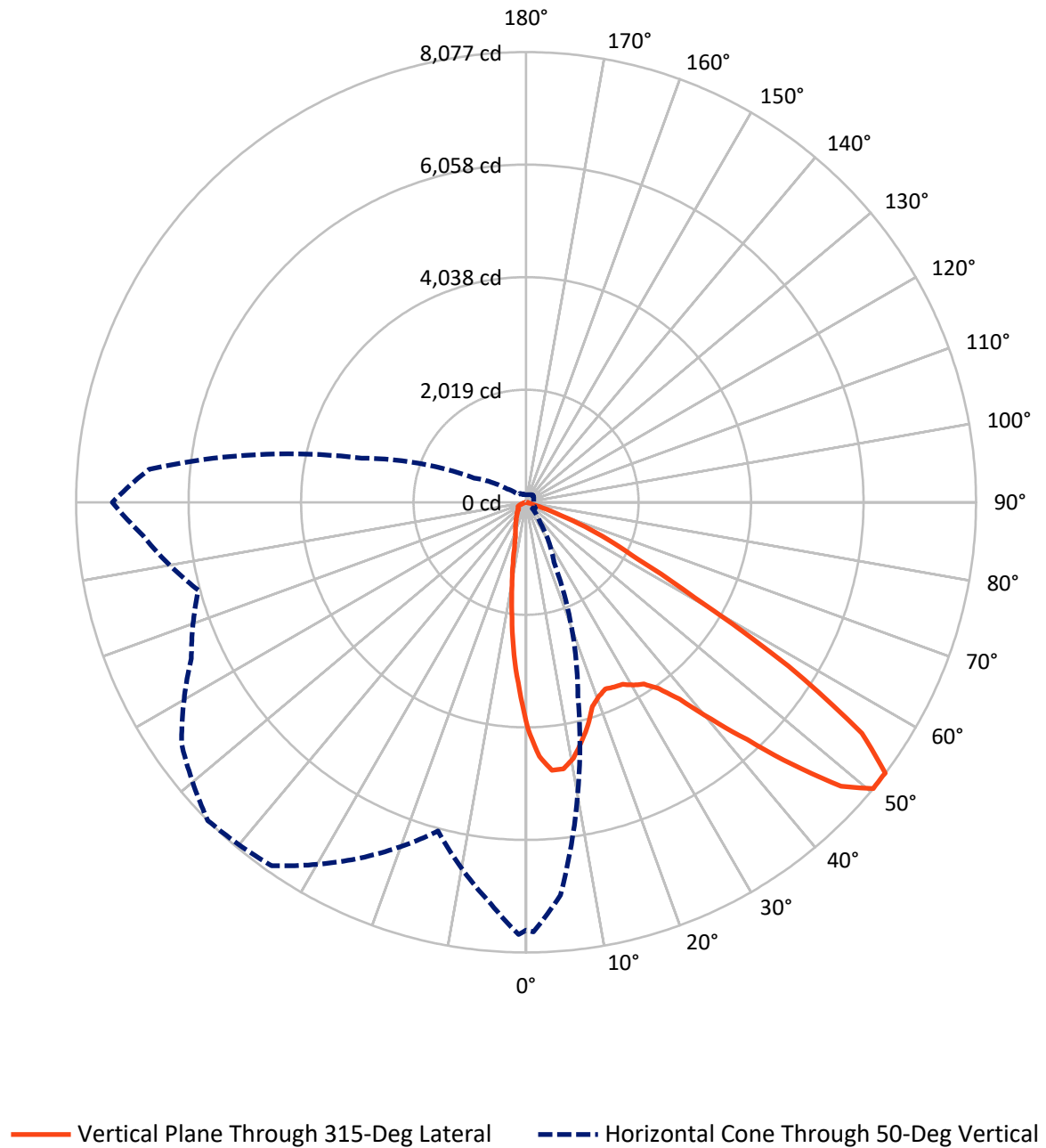
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1604.8	0.0	1604.8
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	6407.2	0.0	6407.2
	% Fixture	80.0	0.0	80.0
Total	Lumens	8012.0	0.0	8012.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.2	3.7
10°-20°	588.6	7.3
20°-30°	884.3	11.0
30°-40°	1327.2	16.6
40°-50°	1865.3	23.3
50°-60°	2012.1	25.1
60°-70°	934.2	11.7
70°-80°	87.9	1.1
80°-90°	16.2	0.2
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°	8012.0	100.0
0°-180°	8012.0	100.0

Coefficient of Utilization



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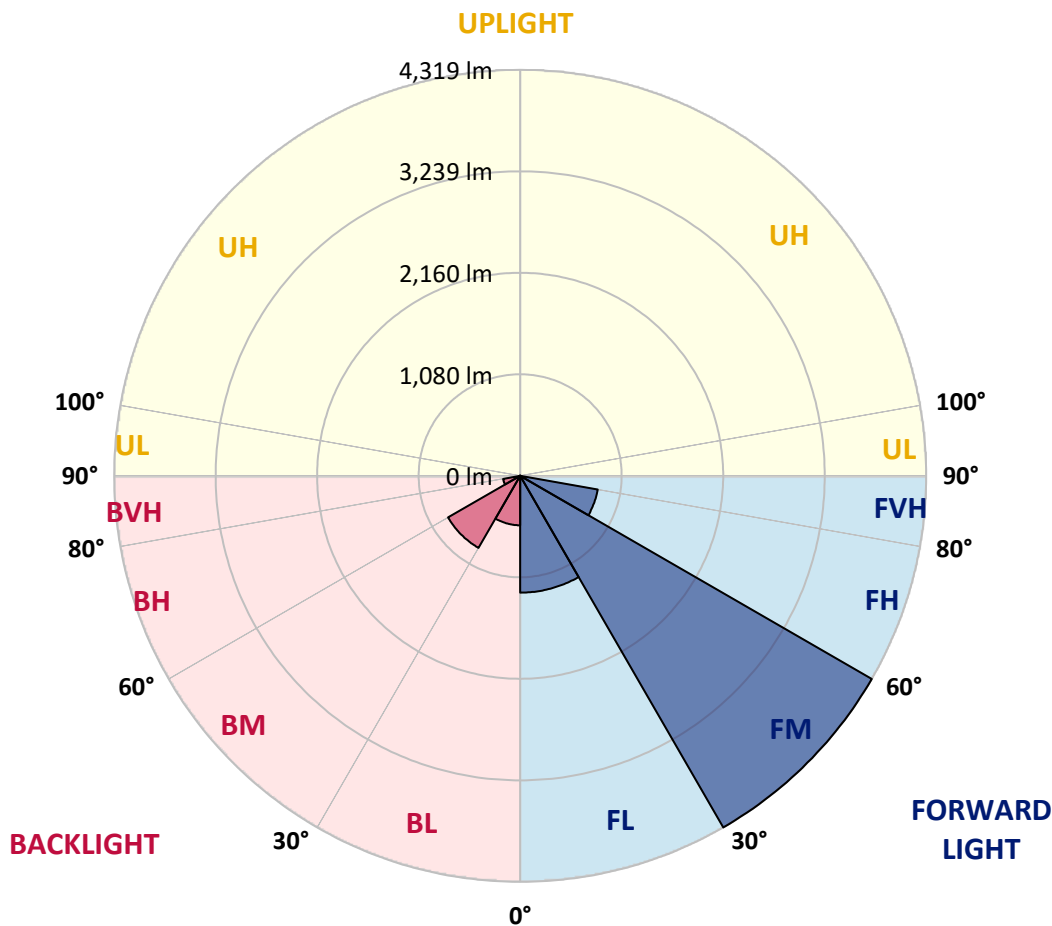
CATALOG NUMBER: GALN-SA2D-735-U-SLR-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1243.0	15.5			
FM (30°-60°)	4319.1	53.9			
FH (60°-80°)	837.8	10.5			G1/1800
FVH (80°-90°)	7.3	0.1			G0/10
BL (0°-30°)	526.0	6.6	B2/1000		
BM (30°-60°)	885.6	11.1	B1/1000		
BH (60°-80°)	184.3	2.3	B1/500		G1/500
BVH (80°-90°)	8.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4063.1	4063.1	4063.1	4063.1	4063.1	4063.1	4063.1	4063.1	4063.1	4063.1	4063.1
2.5°	4223.6	4158.5	4075.8	4007.5	3905.7	3700.7	3645.0	3578.3	3522.6	3447.9	3343.0
5°	3840.5	3819.9	3781.7	3524.2	3338.2	3090.2	2886.8	2800.9	2688.1	2595.9	2529.1
7.5°	3548.1	3465.4	3344.6	3085.5	2788.2	2522.7	2297.0	2165.1	2015.7	1964.8	1874.2
10°	3234.9	3254.0	3075.9	2711.9	2352.7	2138.1	1998.2	1871.0	1735.9	1646.9	1518.1
12.5°	3134.8	3072.8	2936.0	2486.2	2179.4	1979.1	1809.0	1651.6	1508.6	1365.5	1241.5
15°	3199.9	3104.5	2913.8	2438.5	2045.9	1796.3	1583.3	1370.3	1238.3	1055.5	926.8
17.5°	3433.6	3357.3	3101.4	2489.4	1977.5	1621.4	1305.1	1085.7	883.8	718.5	653.3
20°	3823.1	3715.0	3393.9	2554.5	1875.8	1410.0	1058.7	788.5	597.7	527.8	491.2
22.5°	4204.6	4145.8	3740.4	2680.1	1785.2	1222.4	794.8	530.9	446.7	434.0	410.1
25°	4931.0	4754.6	4269.7	2907.4	1715.2	1046.0	599.3	427.6	378.3	368.8	372.0
27.5°	5363.4	5215.6	4759.4	3058.4	1637.3	910.9	507.1	392.6	359.3	338.6	330.6
30°	5778.3	5606.6	5002.6	3147.5	1470.4	767.8	449.9	376.7	368.8	338.6	329.1
32.5°	6097.8	5929.3	5353.9	3281.0	1402.1	675.6	370.4	294.1	273.4	270.2	298.9
35°	6587.4	6407.8	5654.3	3354.1	1349.6	627.9	321.1	262.3	238.4	228.9	230.5
37.5°	7043.6	6921.2	5932.5	3382.7	1294.0	613.6	287.7	235.3	214.6	208.2	206.7
40°	7425.2	7151.7	6196.4	3412.9	1270.1	586.6	267.1	214.6	200.3	190.8	190.8
42.5°	7600.0	7321.8	6492.0	3395.4	1263.8	543.7	267.1	197.1	186.0	176.4	174.9
45°	7561.9	7449.0	6624.0	3387.5	1263.8	500.7	243.2	192.3	176.4	163.7	160.6
47.5°	7660.4	7512.6	6789.3	3420.9	1238.3	470.5	205.1	201.9	166.9	151.0	147.8
50°	7677.9	7706.5	7077.0	3594.2	1182.7	432.4	160.6	198.7	160.6	136.7	133.5
52°	7792.4	7614.3	7164.5	3686.4	1123.9	403.8	135.1	170.1	154.2	127.2	124.0
52.5°	7635.0	7751.0	7185.1	3719.7	1130.2	384.7	130.3	166.9	151.0	127.2	119.2
55°	7458.5	7569.8	7100.9	3791.3	1036.4	302.0	101.7	120.8	136.7	111.3	106.5
57.5°	6482.5	6595.4	6170.9	3471.8	844.1	213.0	84.3	90.6	120.8	103.3	98.6
60°	5762.4	5681.3	5179.0	2896.3	599.3	119.2	66.8	69.9	131.9	95.4	93.8
62.5°	5266.4	5093.2	4328.6	2236.6	365.6	79.5	52.5	54.0	101.7	89.0	89.0
65°	3896.2	3702.2	2875.6	1352.8	179.6	55.6	39.7	42.9	63.6	76.3	76.3
67.5°	2223.9	2149.2	1389.3	610.4	74.7	35.0	30.2	33.4	49.3	62.0	58.8
70°	1022.1	917.2	534.1	128.8	35.0	23.8	23.8	27.0	39.7	46.1	42.9
72.5°	298.9	283.0	130.3	20.7	14.3	14.3	15.9	20.7	30.2	35.0	31.8
75°	22.3	14.3	9.5	6.4	6.4	9.5	12.7	20.7	30.2	33.4	27.0
77.5°	1.6	3.2	1.6	1.6	4.8	9.5	14.3	25.4	39.7	41.3	30.2
80°	1.6	1.6	0.0	1.6	4.8	9.5	15.9	28.6	44.5	47.7	25.4
82.5°	0.0	0.0	0.0	1.6	6.4	12.7	19.1	30.2	41.3	50.9	27.0
85°	0.0	0.0	0.0	1.6	9.5	17.5	22.3	7.9	4.8	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4063.1	4063.1	4063.1	4063.1	4063.1	4063.1	4063.1	4063.1	4063.1	4063.1	4063.1
2.5°	3417.7	3376.4	3360.5	3374.8	3370.0	3365.2	3452.7	3433.6	3430.4	3459.0	3452.7
5°	2565.7	2492.5	2692.8	2611.8	2696.0	2746.9	2756.4	2761.2	2820.0	2758.0	2839.1
7.5°	1828.1	1847.1	1845.6	1899.6	1996.6	2082.4	2133.3	2093.5	2090.4	2082.4	2047.4
10°	1460.9	1427.5	1421.1	1408.4	1438.6	1511.7	1573.7	1524.5	1489.5	1537.2	1522.9
12.5°	1193.8	1147.7	1122.3	1071.4	1073.0	1122.3	1122.3	1122.3	1157.3	1184.3	1204.9
15°	915.6	877.5	877.5	826.6	815.5	817.1	842.5	845.7	901.3	917.2	925.2
17.5°	640.6	620.0	643.8	664.5	651.7	654.9	664.5	667.6	675.6	669.2	685.1
20°	492.8	489.6	496.0	532.5	559.5	575.4	564.3	548.4	538.9	516.6	516.6
22.5°	418.1	424.4	435.6	465.8	500.7	510.3	497.6	461.0	432.4	429.2	430.8
25°	372.0	378.3	395.8	414.9	434.0	449.9	437.1	410.1	394.2	379.9	379.9
27.5°	343.4	346.5	356.1	370.4	386.3	399.0	394.2	379.9	362.4	356.1	341.8
30°	321.1	325.9	337.0	340.2	354.5	360.8	352.9	349.7	338.6	330.6	325.9
32.5°	310.0	308.4	316.3	319.5	321.1	325.9	316.3	321.1	319.5	306.8	302.0
35°	233.7	246.4	267.1	284.5	289.3	295.7	294.1	287.7	270.2	255.9	238.4
37.5°	209.8	217.8	228.9	243.2	262.3	270.2	267.1	251.2	230.5	221.0	217.8
40°	193.9	198.7	208.2	217.8	236.9	251.2	240.0	225.7	209.8	201.9	197.1
42.5°	179.6	181.2	186.0	195.5	209.8	232.1	213.0	193.9	187.6	182.8	179.6
45°	163.7	163.7	170.1	174.9	190.8	211.4	192.3	174.9	171.7	168.5	166.9
47.5°	151.0	152.6	155.8	162.1	174.9	189.2	176.4	162.1	154.2	152.6	149.4
50°	135.1	136.7	143.1	149.4	165.3	173.3	165.3	149.4	141.5	136.7	136.7
52°	122.4	127.2	133.5	146.2	157.4	170.1	160.6	143.1	133.5	128.8	125.6
52.5°	120.8	124.0	130.3	144.7	157.4	168.5	159.0	141.5	130.3	127.2	124.0
55°	108.1	112.9	124.0	141.5	155.8	168.5	155.8	139.9	124.0	116.0	112.9
57.5°	103.3	106.5	120.8	143.1	154.2	168.5	155.8	139.9	124.0	109.7	106.5
60°	98.6	104.9	120.8	138.3	152.6	170.1	157.4	138.3	120.8	103.3	103.3
62.5°	93.8	98.6	119.2	135.1	146.2	163.7	151.0	135.1	116.0	98.6	97.0
65°	81.1	89.0	104.9	112.9	125.6	141.5	128.8	117.6	101.7	87.4	85.8
67.5°	62.0	65.2	77.9	87.4	95.4	109.7	103.3	89.0	77.9	66.8	66.8
70°	42.9	46.1	55.6	60.4	68.4	76.3	71.5	60.4	52.5	46.1	44.5
72.5°	30.2	31.8	35.0	38.2	41.3	44.5	42.9	35.0	30.2	28.6	27.0
75°	23.8	27.0	28.6	27.0	25.4	23.8	23.8	20.7	17.5	15.9	15.9
77.5°	23.8	25.4	23.8	20.7	17.5	15.9	14.3	12.7	9.5	7.9	9.5
80°	20.7	20.7	20.7	17.5	15.9	14.3	12.7	11.1	9.5	7.9	7.9
82.5°	22.3	22.3	20.7	17.5	17.5	14.3	14.3	12.7	11.1	7.9	7.9
85°	0.0	0.0	0.0	3.2	7.9	14.3	14.3	12.7	11.1	9.5	9.5
87.5°	0.0	0.0	0.0	0.0	1.6	3.2	6.4	7.9	9.5	9.5	9.5
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°	4063.1	4063.1	4063.1	4063.1	4063.1	4063.1	4063.1	4063.1	4063.1	4063.1	4063.1
2.5°	3509.9	3570.3	3684.8	3799.2	3869.2	3951.8	4101.2	4180.7	4284.1	4334.9	4435.1
5°	2828.0	2971.0	3021.9	3152.2	3292.1	3432.0	3654.6	3899.4	4102.8	4242.7	4423.9
7.5°	2063.3	2096.7	2293.8	2381.3	2610.2	2864.5	3168.1	3476.5	3734.0	3962.9	4101.2
10°	1546.7	1669.1	1793.1	1960.0	2144.4	2406.7	2697.6	3037.8	3371.6	3600.5	3775.4
12.5°	1243.1	1340.1	1505.4	1685.0	1912.3	2085.6	2378.1	2715.1	3147.5	3371.6	3602.1
15°	941.1	1065.1	1252.6	1438.6	1678.6	1861.5	2157.1	2581.6	3137.9	3446.3	3645.0
17.5°	697.8	782.1	950.6	1158.8	1403.6	1661.2	2060.2	2567.3	3244.4	3611.6	3816.7
20°	534.1	562.7	669.2	855.2	1120.7	1457.7	1902.8	2629.2	3559.2	4013.8	4222.1
22.5°	432.4	445.1	486.4	615.2	872.7	1279.7	1828.1	2672.2	3913.7	4495.5	4773.7
25°	376.7	373.6	400.6	456.2	682.0	1112.7	1732.7	2834.3	4347.6	5061.4	5311.0
27.5°	343.4	343.4	356.1	395.8	565.9	1004.6	1672.3	2950.4	4784.8	5558.9	5694.1
30°	325.9	329.1	365.6	378.3	470.5	875.9	1572.1	3068.0	5202.9	5876.9	6062.8
32.5°	302.0	289.3	281.4	313.2	395.8	759.8	1472.0	3117.3	5541.4	6266.3	6425.3
35°	232.1	225.7	235.3	259.1	340.2	661.3	1360.7	3172.9	5930.9	6717.8	6749.6
37.5°	209.8	208.2	214.6	235.3	286.1	575.4	1281.2	3158.6	6228.2	7091.3	7005.5
40°	193.9	193.9	198.7	216.2	255.9	515.0	1198.6	3145.9	6515.9	7511.0	7259.8
42.5°	181.2	181.2	189.2	200.3	243.2	475.3	1136.6	3128.4	6757.5	7768.5	7409.3
45°	163.7	168.5	181.2	192.3	246.4	448.3	1090.5	3061.6	6840.2	7765.3	7337.7
47.5°	151.0	157.4	170.1	186.0	222.5	440.3	1058.7	3002.8	6811.6	7574.6	7113.6
50°	136.7	144.7	162.1	189.2	189.2	424.4	1025.3	3055.3	6790.9	7426.8	6899.0
52°	127.2	133.5	155.8	184.4	165.3	391.0	1004.6	3157.0	6875.1	7407.7	6803.6
52.5°	125.6	130.3	151.0	181.2	157.4	384.7	990.3	3180.8	6902.2	7360.0	6868.8
55°	111.3	117.6	138.3	141.5	128.8	316.3	944.2	3234.9	6768.6	7266.2	6806.8
57.5°	104.9	108.1	122.4	116.0	111.3	238.4	812.3	3150.6	6012.0	6453.9	6333.1
60°	97.0	100.1	114.5	90.6	93.8	166.9	610.4	2735.8	4827.7	5377.7	5595.5
62.5°	93.8	92.2	108.1	73.1	79.5	120.8	430.8	2223.9	3719.7	4427.1	4803.9
65°	82.7	81.1	77.9	62.0	68.4	93.8	257.5	1451.3	2621.3	3349.4	3556.0
67.5°	63.6	66.8	57.2	49.3	57.2	73.1	143.1	650.2	1375.0	2009.3	2176.2
70°	44.5	47.7	46.1	42.9	50.9	60.4	82.7	222.5	569.1	1055.5	1163.6
72.5°	27.0	33.4	35.0	36.6	44.5	52.5	58.8	71.5	151.0	373.6	464.2
75°	15.9	22.3	27.0	31.8	36.6	44.5	49.3	50.9	52.5	69.9	112.9
77.5°	11.1	15.9	23.8	30.2	36.6	44.5	52.5	55.6	52.5	49.3	52.5
80°	9.5	15.9	22.3	28.6	38.2	46.1	52.5	52.5	50.9	44.5	47.7
82.5°	9.5	15.9	23.8	30.2	36.6	44.5	50.9	52.5	47.7	44.5	46.1
85°	11.1	17.5	25.4	31.8	39.7	36.6	33.4	27.0	25.4	20.7	22.3
87.5°	11.1	15.9	15.9	17.5	19.1	19.1	19.1	17.5	14.3	12.7	12.7
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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CATALOG NUMBER: GALN-SA2D-735-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4063.1	4063.1	4063.1	4063.1	4063.1	4063.1	4063.1	4063.1	4063.1	4063.1
2.5°	4439.8	4567.0	4562.2	4565.4	4546.3	4417.6	4355.6	4198.2	4242.7	4223.6
5°	4609.9	4735.5	4843.6	4830.9	4684.6	4509.8	4250.7	4005.9	3939.1	3840.5
7.5°	4439.8	4741.9	4842.0	4827.7	4611.5	4387.4	3974.1	3729.3	3613.2	3548.1
10°	4169.6	4519.3	4643.3	4668.7	4522.5	4182.3	3802.4	3409.8	3347.8	3234.9
12.5°	4015.4	4269.7	4346.0	4414.4	4363.5	4109.2	3672.0	3295.3	3209.5	3134.8
15°	3889.8	4040.8	4072.6	4150.5	4180.7	4044.0	3740.4	3419.3	3207.9	3199.9
17.5°	4005.9	3943.9	3827.8	3851.7	3947.1	4045.6	3916.8	3664.1	3459.0	3433.6
20°	4198.2	3924.8	3662.5	3721.3	3800.8	4102.8	4183.9	4005.9	3888.2	3823.1
22.5°	4419.2	3958.2	3610.0	3638.7	3789.7	4231.6	4616.3	4517.7	4298.4	4204.6
25°	4827.7	4050.4	3651.4	3670.5	3877.1	4411.2	5007.3	5080.5	4950.1	4931.0
27.5°	5226.7	4288.8	3742.0	3699.1	3921.6	4586.1	5244.2	5636.8	5407.9	5363.4
30°	5430.2	4482.8	3877.1	3804.0	4106.0	4692.6	5387.3	5999.3	5799.0	5778.3
32.5°	5741.7	4659.2	3982.0	3888.2	4209.3	4824.5	5654.3	6395.1	6201.1	6097.8
35°	5872.1	4851.6	4212.5	4102.8	4505.0	5008.9	5791.0	6748.0	6687.6	6587.4
37.5°	6123.3	5058.2	4484.3	4478.0	4862.7	5249.0	6037.4	7228.0	7216.9	7043.6
40°	6143.9	5283.9	4913.5	5113.8	5415.9	5667.0	6253.6	7361.6	7542.8	7425.2
42.5°	6175.7	5679.7	5655.9	5821.2	6080.3	6026.3	6261.6	7393.4	7670.0	7600.0
45°	6190.0	6075.6	6411.0	6716.2	6824.3	6496.8	6186.8	7333.0	7736.7	7561.9
47.5°	6075.6	6415.7	7021.4	7611.1	7642.9	6786.1	6155.0	7271.0	7776.5	7660.4
50°	6091.5	6628.8	7549.2	8076.9	7960.9	7042.1	6105.8	7232.8	7755.8	7677.9
52°	6053.3	6633.5	7623.9	8067.4	7986.3	6900.6	6021.5	7086.6	7736.7	7792.4
52.5°	6096.2	6604.9	7546.0	8073.7	7968.8	6970.5	6010.4	7167.6	7747.9	7635.0
55°	5948.4	6264.7	7089.7	7313.9	7298.0	6326.7	5668.6	6899.0	7457.0	7458.5
57.5°	5376.1	5430.2	5560.5	5555.8	5482.6	4974.0	4848.4	6344.2	6647.8	6482.5
60°	4737.1	3975.7	3624.4	3481.3	3400.2	3317.6	4288.8	5803.7	5832.4	5762.4
62.5°	4093.3	2756.4	2289.1	2249.3	2268.4	2570.4	4145.8	5589.1	5417.5	5266.4
65°	3303.3	2009.3	1662.8	1610.3	1796.3	2122.2	3355.7	4285.6	4021.8	3896.2
67.5°	2074.5	1465.6	1123.9	1025.3	1249.4	1460.9	2204.8	2692.8	2397.2	2223.9
70°	1230.4	818.7	508.7	456.2	513.5	778.9	1235.1	1343.2	1111.2	1022.1
72.5°	484.8	300.4	141.5	120.8	125.6	273.4	454.6	443.5	335.4	298.9
75°	130.3	90.6	49.3	39.7	33.4	50.9	73.1	47.7	17.5	22.3
77.5°	60.4	54.0	42.9	33.4	25.4	19.1	9.5	3.2	3.2	1.6
80°	52.5	46.1	39.7	33.4	25.4	15.9	7.9	1.6	1.6	1.6
82.5°	49.3	42.9	36.6	30.2	23.8	15.9	7.9	1.6	0.0	0.0
85°	20.7	27.0	30.2	28.6	25.4	15.9	7.9	1.6	0.0	0.0
87.5°	11.1	9.5	7.9	6.4	4.8	3.2	3.2	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

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