

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: P527273

Luminaire Tested: **GALN-SA2B-735-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527273
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-735-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5893 lumens
Efficiency: N/A
Efficacy: 71.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

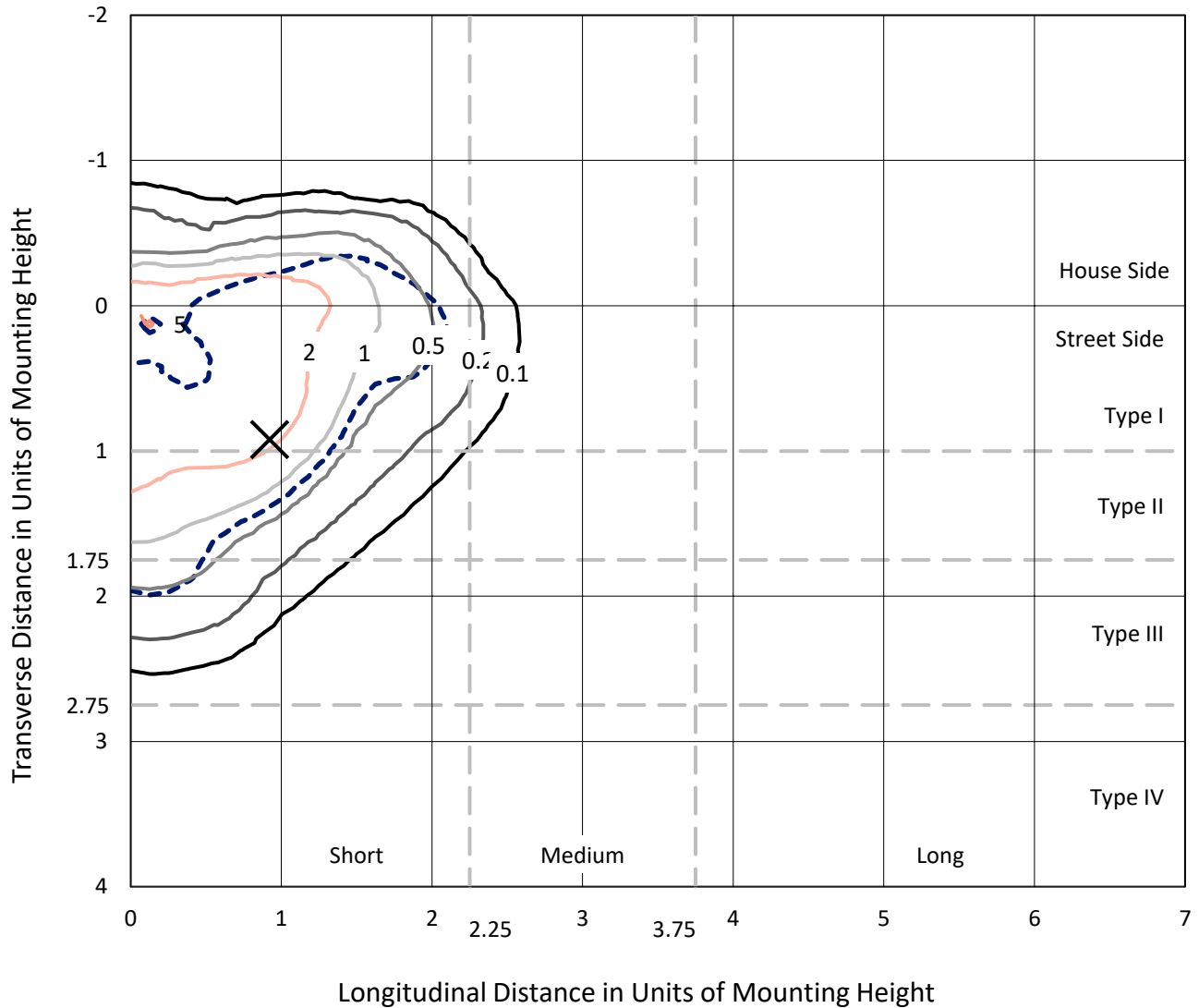
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

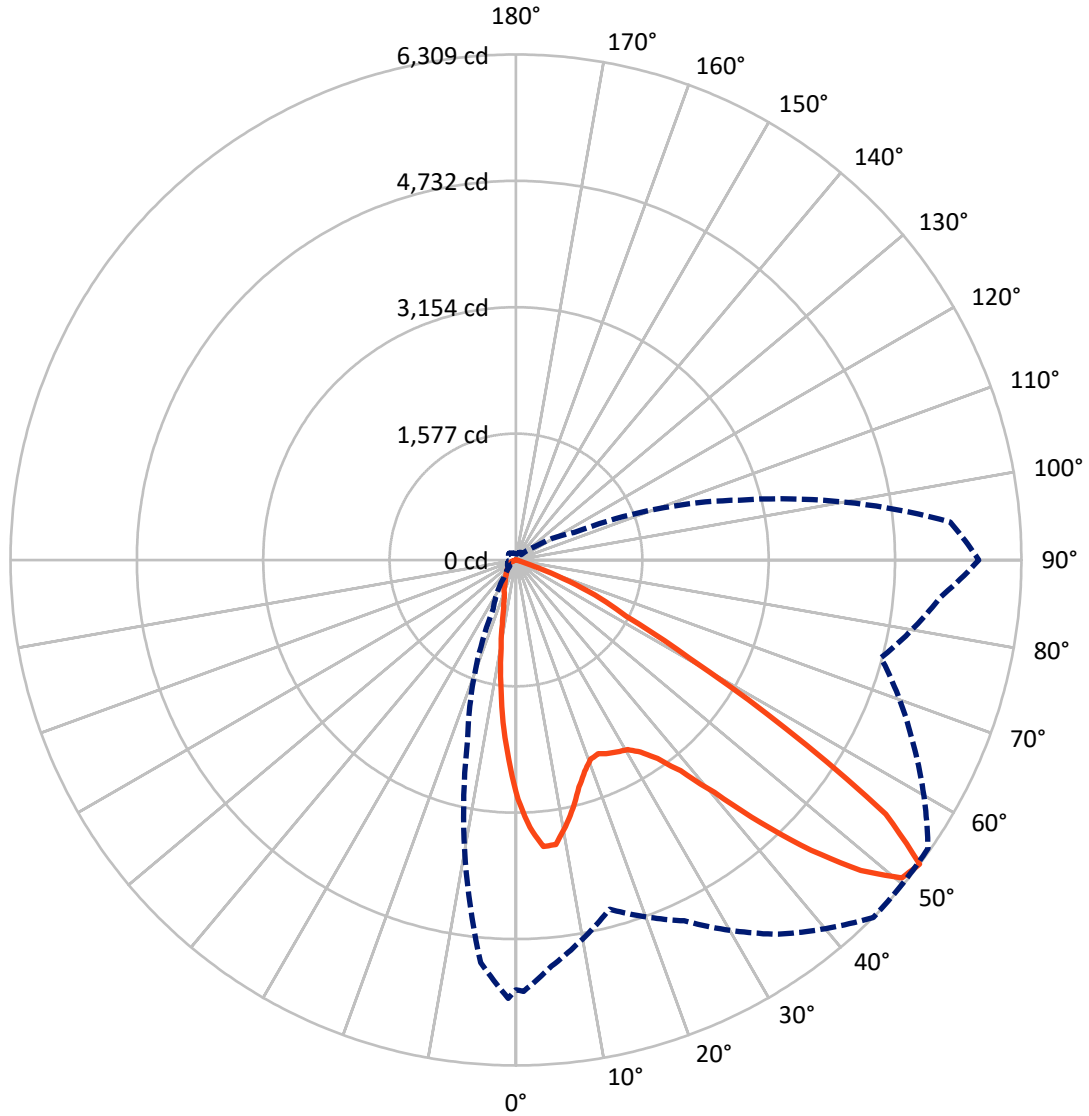
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1196.0	0.0	1196.0
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	4697.0	0.0	4697.0
	% Fixture	79.7	0.0	79.7
Total	Lumens	5893.0	0.0	5893.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.9	3.7
10°-20°	429.9	7.3
20°-30°	654.3	11.1
30°-40°	977.9	16.6
40°-50°	1392.6	23.6
50°-60°	1497.0	25.4
60°-70°	663.4	11.3
70°-80°	53.7	0.9
80°-90°	6.3	0.1
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°	5893.0	100.0
0°-180°	5893.0	100.0

Coefficient of Utilization

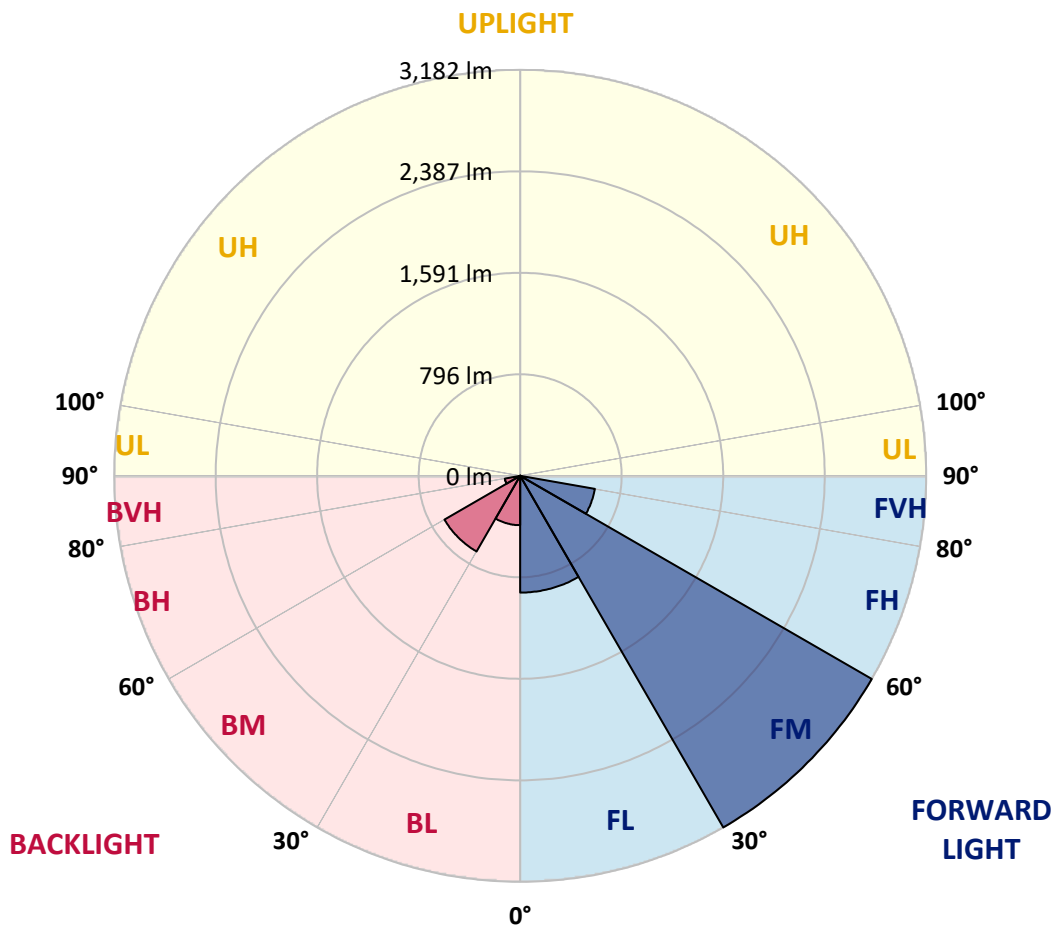


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	915.3	15.5			
FM (30°-60°)	3182.4	54.0			
FH (60°-80°)	594.7	10.1			G0/660
FVH (80°-90°)	4.6	0.1			G0/10
BL (0°-30°)	386.8	6.6	B1/500		
BM (30°-60°)	685.2	11.6	B1/1000		
BH (60°-80°)	122.4	2.1	B1/500		G1/500
BVH (80°-90°)	1.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2988.0	2988.0	2988.0	2988.0	2988.0	2988.0	2988.0	2988.0	2988.0	2988.0	2988.0
2.5°	3161.9	3171.2	3222.2	3285.9	3319.5	3396.0	3342.7	3356.6	3327.6	3225.6	3145.7
5°	3065.7	3064.5	3129.4	3287.1	3436.6	3588.4	3593.0	3511.9	3369.4	3212.9	2989.2
7.5°	2775.9	2821.1	2888.3	3139.9	3416.9	3530.5	3584.9	3489.9	3270.8	3047.1	2804.9
10°	2556.9	2580.0	2693.6	2997.3	3200.1	3352.0	3385.6	3331.1	3163.0	2883.7	2612.5
12.5°	2430.5	2442.1	2575.4	2830.4	3044.8	3157.2	3173.5	3199.0	3078.4	2816.5	2490.8
15°	2431.7	2441.0	2620.6	2833.9	2918.5	2888.3	2941.7	2940.5	2992.7	2803.7	2592.8
17.5°	2606.7	2617.1	2779.4	2884.9	2847.8	2777.1	2773.6	2826.9	2937.0	2962.5	2746.9
20°	2908.1	2932.4	3051.8	3046.0	2837.3	2694.8	2655.4	2695.9	2952.1	3097.0	3057.6
22.5°	3313.7	3347.3	3430.8	3270.8	2884.9	2639.2	2626.4	2705.2	3051.8	3397.2	3409.9
25°	3784.3	3841.1	3881.7	3676.5	3054.1	2735.4	2675.1	2810.7	3186.2	3722.9	3858.5
27.5°	4096.1	4155.2	4145.9	3852.7	3167.7	2760.9	2709.9	2836.2	3303.3	3800.5	4092.6
30°	4339.5	4375.4	4440.3	3947.7	3281.3	2832.7	2745.8	2944.0	3341.5	3935.0	4375.4
32.5°	4623.4	4647.8	4652.4	4115.8	3456.3	2923.1	2857.1	3078.4	3510.8	4063.6	4625.8
35°	4909.7	4945.7	4870.3	4323.2	3564.1	3091.2	3042.5	3311.4	3646.4	4196.9	4901.6
37.5°	5220.4	5238.9	5065.0	4409.0	3718.2	3364.7	3338.1	3562.9	3881.7	4438.0	5207.6
40°	5481.1	5498.5	5272.5	4514.5	3880.5	3747.2	3815.6	4042.8	4201.5	4594.5	5360.6
42.5°	5626.0	5666.6	5342.1	4456.5	4206.2	4180.7	4484.4	4564.3	4572.4	4638.5	5497.4
45°	5665.4	5646.9	5227.3	4504.1	4491.3	4893.5	5169.4	5274.8	4941.0	4719.6	5532.1
47.5°	5483.5	5507.8	5058.1	4462.3	4865.7	5433.6	5790.6	5986.5	5215.7	4648.9	5446.4
50°	5336.3	5305.0	5003.6	4432.2	4966.5	5688.6	6239.2	6283.2	5468.4	4735.9	5352.5
52.5°	5365.2	5384.9	5090.5	4512.2	4968.8	5703.7	6308.7	6278.6	5476.5	4716.2	5318.9
55°	5426.7	5339.7	5053.4	4336.0	4636.2	5282.9	5599.4	5553.0	5054.6	4506.4	5236.6
57.5°	4682.6	4817.0	4646.6	3871.2	3805.2	3980.2	3974.4	4116.9	3770.4	3878.2	4767.2
60°	3800.5	3823.7	3887.4	3311.4	2633.4	2573.1	2489.6	2399.2	2537.2	3316.0	4336.0
62.5°	3342.7	3314.9	3542.0	3012.4	1859.1	1556.6	1542.7	1598.3	1957.6	3163.0	4067.1
65°	2429.4	2464.1	2628.7	2337.8	1395.5	1188.0	1167.2	1331.7	1584.4	2534.8	3103.9
67.5°	1483.6	1550.8	1565.9	1441.9	946.9	752.2	722.1	871.6	1144.0	1640.1	1819.7
70°	685.0	766.1	842.6	787.0	548.2	309.5	292.1	366.3	577.2	943.5	965.5
72.5°	207.5	208.6	292.1	304.8	177.3	69.5	61.4	81.1	195.9	311.8	328.0
75°	15.1	16.2	39.4	45.2	33.6	17.4	18.5	22.0	41.7	69.5	52.2
77.5°	1.2	1.2	1.2	5.8	10.4	11.6	15.1	17.4	22.0	25.5	23.2
80°	1.2	0.0	1.2	4.6	8.1	11.6	13.9	16.2	17.4	19.7	17.4
82.5°	0.0	0.0	0.0	3.5	8.1	11.6	12.7	17.4	19.7	23.2	19.7
85°	0.0	0.0	0.0	3.5	8.1	12.7	11.6	5.8	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2988.0	2988.0	2988.0	2988.0	2988.0	2988.0	2988.0	2988.0	2988.0	2988.0	2988.0
2.5°	3159.6	3114.4	3011.2	2959.0	2836.2	2818.8	2698.3	2678.6	2638.0	2616.0	2562.7
5°	2890.7	2836.2	2668.1	2526.7	2362.1	2247.4	2159.3	2079.3	2033.0	1990.1	2009.8
7.5°	2671.6	2512.8	2326.2	2089.8	1899.7	1776.8	1642.4	1532.3	1467.4	1423.3	1433.7
10°	2442.1	2339.0	2079.3	1813.9	1584.4	1497.5	1392.0	1307.4	1215.8	1137.0	1099.9
12.5°	2370.3	2217.3	1891.6	1621.5	1447.7	1363.0	1242.5	1145.1	1028.1	931.9	898.3
15°	2383.0	2235.8	1840.6	1552.0	1346.8	1200.8	1057.1	936.5	807.9	740.6	705.9
17.5°	2590.5	2335.5	1874.2	1478.9	1206.6	1003.7	826.4	673.4	577.2	507.7	492.6
20°	2845.5	2551.1	1946.0	1425.6	1091.8	798.6	603.9	471.7	391.8	380.2	376.7
22.5°	3218.7	2903.4	2100.2	1389.7	951.6	622.4	413.8	343.1	321.1	318.7	319.9
25°	3740.2	3345.0	2268.3	1359.6	846.1	479.8	338.4	290.9	284.0	280.5	286.3
27.5°	3966.3	3611.6	2357.5	1294.7	749.9	432.3	333.8	288.6	268.9	263.1	266.6
30°	4245.6	3788.9	2497.7	1183.4	608.5	355.8	311.8	314.1	304.8	275.9	266.6
32.5°	4616.5	4010.3	2568.4	1104.6	543.6	294.4	228.3	209.8	234.1	238.8	246.9
35°	4854.1	4235.2	2604.4	1058.2	510.0	251.5	193.6	176.2	170.4	171.5	176.2
37.5°	5295.7	4538.8	2649.6	1009.5	484.5	219.1	175.0	158.8	150.7	150.7	155.3
40°	5560.0	4779.9	2711.0	982.9	459.0	199.4	158.8	144.9	137.9	137.9	140.2
42.5°	5626.0	4899.3	2690.1	973.6	430.0	194.7	144.9	134.4	126.3	125.2	124.0
45°	5744.2	5081.3	2693.6	963.2	399.9	177.3	136.8	125.2	113.6	112.4	111.3
47.5°	5874.1	5212.2	2700.6	922.6	370.9	148.4	142.6	115.9	102.0	99.7	99.7
50°	5762.8	5316.6	2760.9	882.0	333.8	120.5	140.2	109.0	90.4	86.9	88.1
52.5°	5776.7	5439.4	2888.3	825.2	287.4	96.2	113.6	103.2	82.3	76.5	77.7
55°	5554.2	5309.6	2905.7	765.0	224.9	74.2	86.9	90.4	69.5	67.2	67.2
57.5°	4781.1	4495.9	2563.8	620.1	148.4	61.4	62.6	78.8	60.3	58.0	59.1
60°	4091.4	3609.3	2063.1	409.1	92.7	48.7	45.2	80.0	53.3	52.2	55.6
62.5°	3729.8	2966.0	1564.7	253.8	63.7	37.1	31.3	64.9	46.4	46.4	51.0
65°	2694.8	1992.4	909.9	133.3	45.2	29.0	23.2	37.1	38.2	39.4	41.7
67.5°	1669.0	1006.1	383.6	64.9	30.1	19.7	15.1	23.2	25.5	25.5	27.8
70°	824.1	401.0	127.5	37.1	23.2	16.2	10.4	12.7	12.7	11.6	12.7
72.5°	255.0	120.5	32.5	23.2	16.2	10.4	5.8	4.6	2.3	0.0	1.2
75°	29.0	23.2	20.9	16.2	10.4	4.6	1.2	0.0	0.0	0.0	0.0
77.5°	17.4	19.7	19.7	16.2	10.4	3.5	0.0	0.0	0.0	0.0	0.0
80°	13.9	15.1	16.2	15.1	9.3	4.6	0.0	0.0	0.0	0.0	0.0
82.5°	17.4	19.7	22.0	19.7	12.7	5.8	2.3	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	3.5	1.2	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°	2988.0	2988.0	2988.0	2988.0	2988.0	2988.0	2988.0	2988.0	2988.0	2988.0	2988.0
2.5°	2540.6	2515.1	2551.1	2497.7	2496.6	2497.7	2482.7	2468.8	2490.8	2549.9	2555.7
5°	1939.1	1993.6	2010.9	2067.7	2036.4	1990.1	1999.4	1968.1	2044.6	2078.2	2051.5
7.5°	1411.7	1408.2	1525.3	1532.3	1547.3	1548.5	1546.2	1484.7	1422.2	1436.1	1477.8
10°	1095.3	1036.2	1093.0	1087.2	1124.3	1113.8	1128.9	1062.8	1084.9	1084.9	1111.5
12.5°	892.5	829.9	819.4	804.4	819.4	825.2	831.0	818.3	855.4	872.8	891.3
15°	681.5	646.7	637.5	608.5	613.1	629.4	643.3	649.1	637.5	664.1	666.5
17.5°	494.9	493.8	499.5	498.4	493.8	490.3	489.1	474.1	469.4	471.7	481.0
20°	375.5	384.8	404.5	424.2	434.6	421.9	404.5	379.0	368.6	370.9	372.1
22.5°	321.1	335.0	361.6	383.6	394.1	370.9	339.6	317.6	312.9	311.8	310.6
25°	290.9	307.1	326.9	333.8	332.6	318.7	295.6	286.3	284.0	281.6	271.2
27.5°	274.7	280.5	284.0	292.1	295.6	286.3	280.5	266.6	264.3	264.3	257.3
30°	265.4	261.9	266.6	260.8	265.4	258.5	259.6	259.6	253.8	256.1	256.1
32.5°	246.9	248.0	248.0	236.4	239.9	231.8	239.9	246.9	248.0	249.2	258.5
35°	180.8	201.7	212.1	212.1	215.6	209.8	208.6	200.5	190.1	179.7	175.0
37.5°	158.8	166.9	180.8	188.9	194.7	190.1	179.7	166.9	161.1	156.5	151.8
40°	141.4	148.4	157.6	166.9	178.5	172.7	156.5	150.7	143.7	143.7	139.1
42.5°	127.5	131.0	136.8	150.7	163.4	151.8	140.2	135.6	132.1	131.0	129.8
45°	114.7	115.9	121.7	133.3	148.4	136.8	125.2	119.4	120.5	121.7	120.5
47.5°	103.2	105.5	109.0	122.9	132.1	126.3	113.6	110.1	110.1	110.1	111.3
50°	89.2	95.0	102.0	113.6	120.5	117.1	106.6	102.0	99.7	99.7	100.8
52.5°	80.0	84.6	93.9	107.8	117.1	111.3	100.8	93.9	89.2	88.1	90.4
55°	69.5	77.7	92.7	103.2	115.9	110.1	98.5	90.4	82.3	81.1	81.1
57.5°	62.6	75.3	89.2	102.0	112.4	107.8	98.5	88.1	77.7	76.5	76.5
60°	59.1	73.0	86.9	98.5	112.4	105.5	97.4	85.8	74.2	74.2	73.0
62.5°	55.6	68.4	82.3	93.9	107.8	102.0	93.9	82.3	70.7	70.7	68.4
65°	46.4	59.1	68.4	78.8	93.9	88.1	80.0	71.9	62.6	60.3	61.4
67.5°	32.5	40.6	49.8	60.3	69.5	67.2	63.7	58.0	49.8	48.7	47.5
70°	16.2	22.0	30.1	40.6	48.7	46.4	44.0	39.4	34.8	33.6	33.6
72.5°	2.3	7.0	12.7	18.5	25.5	26.7	25.5	24.3	23.2	22.0	23.2
75°	0.0	0.0	0.0	4.6	10.4	12.7	15.1	17.4	17.4	15.1	18.5
77.5°	0.0	0.0	0.0	0.0	1.2	5.8	11.6	15.1	18.5	16.2	22.0
80°	0.0	0.0	0.0	0.0	1.2	7.0	11.6	16.2	18.5	16.2	23.2
82.5°	0.0	0.0	0.0	0.0	1.2	8.1	11.6	15.1	17.4	16.2	20.9
85°	0.0	0.0	0.0	0.0	3.5	7.0	4.6	2.3	1.2	1.2	3.5
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2988.0	2988.0	2988.0	2988.0	2988.0	2988.0	2988.0	2988.0	2988.0	2988.0
2.5°	2588.2	2670.4	2758.5	2792.1	2896.5	2975.3	3028.6	3143.3	3160.7	3161.9
5°	2079.3	2121.1	2271.7	2342.4	2497.7	2618.3	2746.9	2932.4	3056.4	3065.7
7.5°	1477.8	1593.7	1657.4	1841.7	2033.0	2221.9	2413.1	2628.7	2772.4	2775.9
10°	1189.2	1264.5	1378.1	1516.0	1677.1	1869.5	2124.5	2374.9	2520.9	2556.9
12.5°	957.4	1089.5	1219.3	1361.9	1484.7	1629.6	1904.3	2238.1	2358.7	2430.5
15°	737.2	857.7	1010.7	1177.6	1316.7	1510.2	1823.2	2204.5	2407.3	2431.7
17.5°	543.6	651.4	792.8	950.4	1159.0	1433.7	1837.1	2374.9	2566.1	2606.7
20°	390.6	453.2	564.5	747.6	1013.0	1344.5	1851.0	2547.6	2838.5	2908.1
22.5°	309.5	335.0	408.0	570.3	849.6	1250.6	1949.5	2877.9	3212.9	3313.7
25°	268.9	282.8	317.6	449.7	746.4	1241.3	2107.1	3274.3	3711.3	3784.3
27.5°	259.6	261.9	292.1	412.6	690.8	1179.9	2167.4	3556.0	4021.9	4096.1
30°	273.5	310.6	312.9	348.9	587.6	1058.2	2198.7	3828.3	4285.0	4339.5
32.5°	236.4	224.9	233.0	270.1	516.9	987.5	2257.8	4065.9	4585.2	4623.4
35°	164.6	172.7	191.2	234.1	452.0	913.3	2272.9	4327.9	4870.3	4909.7
37.5°	151.8	156.5	171.5	199.4	397.6	871.6	2252.0	4519.1	5165.9	5220.4
40°	141.4	147.2	155.3	180.8	357.0	825.2	2223.1	4691.8	5346.7	5481.1
42.5°	133.3	137.9	144.9	172.7	322.2	778.9	2182.5	4935.2	5509.0	5626.0
45°	124.0	131.0	139.1	168.1	302.5	747.6	2152.4	4920.2	5602.8	5665.4
47.5°	114.7	126.3	135.6	156.5	296.7	732.5	2165.1	4863.4	5526.3	5483.5
50°	105.5	120.5	136.8	129.8	282.8	702.4	2180.2	4941.0	5344.4	5336.3
52.5°	97.4	114.7	127.5	106.6	251.5	673.4	2326.2	5043.0	5473.0	5365.2
55°	85.8	103.2	102.0	85.8	204.0	651.4	2441.0	5045.3	5386.1	5426.7
57.5°	77.7	91.6	80.0	71.9	150.7	544.8	2254.3	4230.5	4610.7	4682.6
60°	71.9	89.2	60.3	56.8	98.5	392.9	1968.1	3276.6	3664.9	3800.5
62.5°	66.1	84.6	47.5	46.4	68.4	279.3	1618.0	2742.3	3158.4	3342.7
65°	58.0	60.3	38.2	35.9	48.7	150.7	985.2	1888.1	2361.0	2429.4
67.5°	47.5	46.4	31.3	29.0	32.5	73.0	434.6	945.8	1368.8	1483.6
70°	38.2	38.2	26.7	23.2	23.2	33.6	113.6	376.7	618.9	685.0
72.5°	27.8	29.0	20.9	18.5	17.4	16.2	18.5	75.3	162.3	207.5
75°	24.3	25.5	20.9	16.2	12.7	10.4	8.1	7.0	9.3	15.1
77.5°	26.7	26.7	22.0	15.1	11.6	8.1	4.6	2.3	2.3	1.2
80°	33.6	34.8	29.0	19.7	13.9	9.3	5.8	2.3	1.2	1.2
82.5°	35.9	39.4	32.5	24.3	17.4	10.4	5.8	1.2	0.0	0.0
85°	9.3	15.1	25.5	22.0	17.4	10.4	5.8	1.2	0.0	0.0
87.5°	0.0	1.2	3.5	3.5	4.6	4.6	3.5	1.2	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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