

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: P527509

Luminaire Tested: **GALN-SA2C-735-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527509
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-SA2C-735-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1050mA 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: 7281 lumens
Efficiency: N/A
Efficacy: 67.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

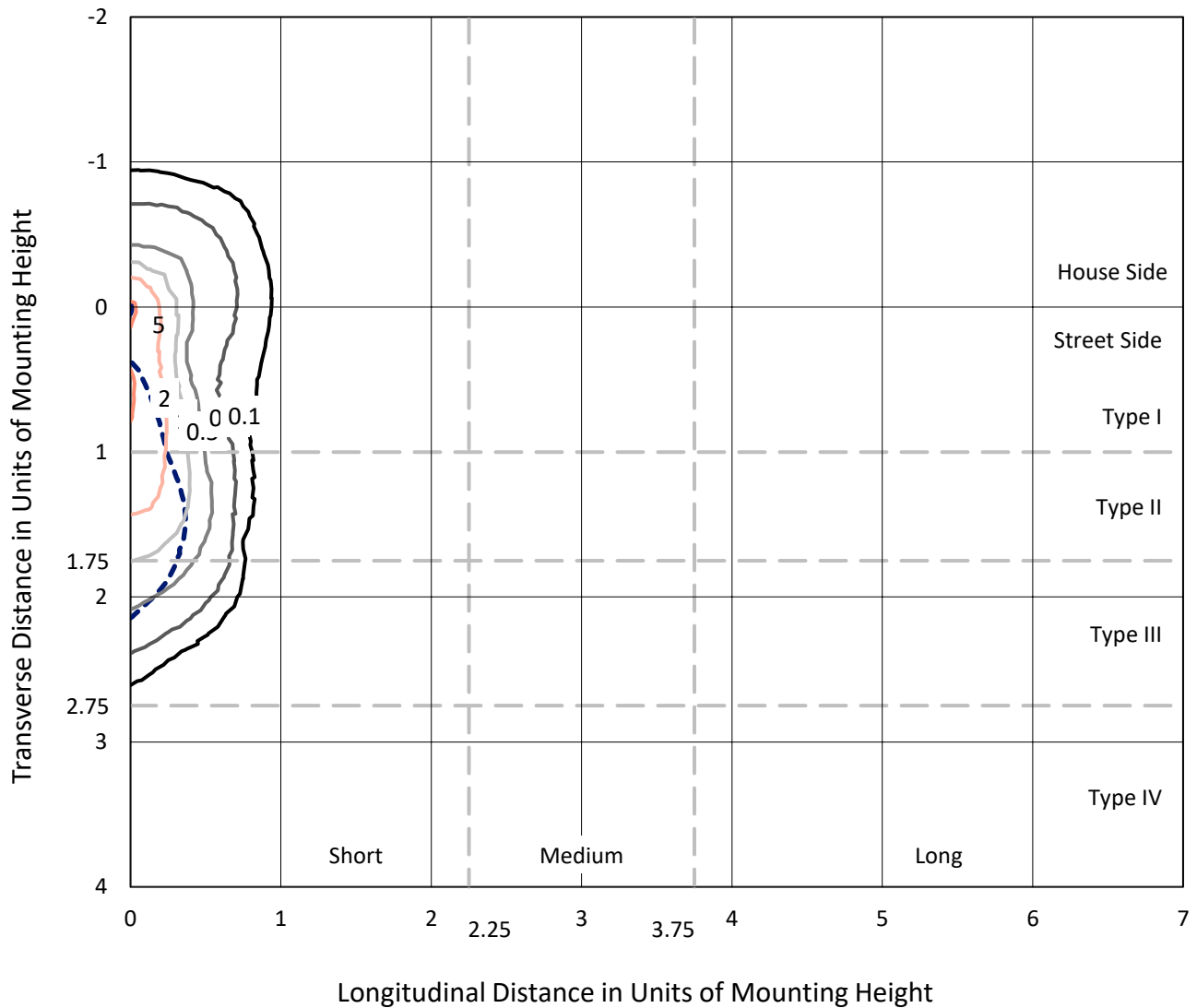
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

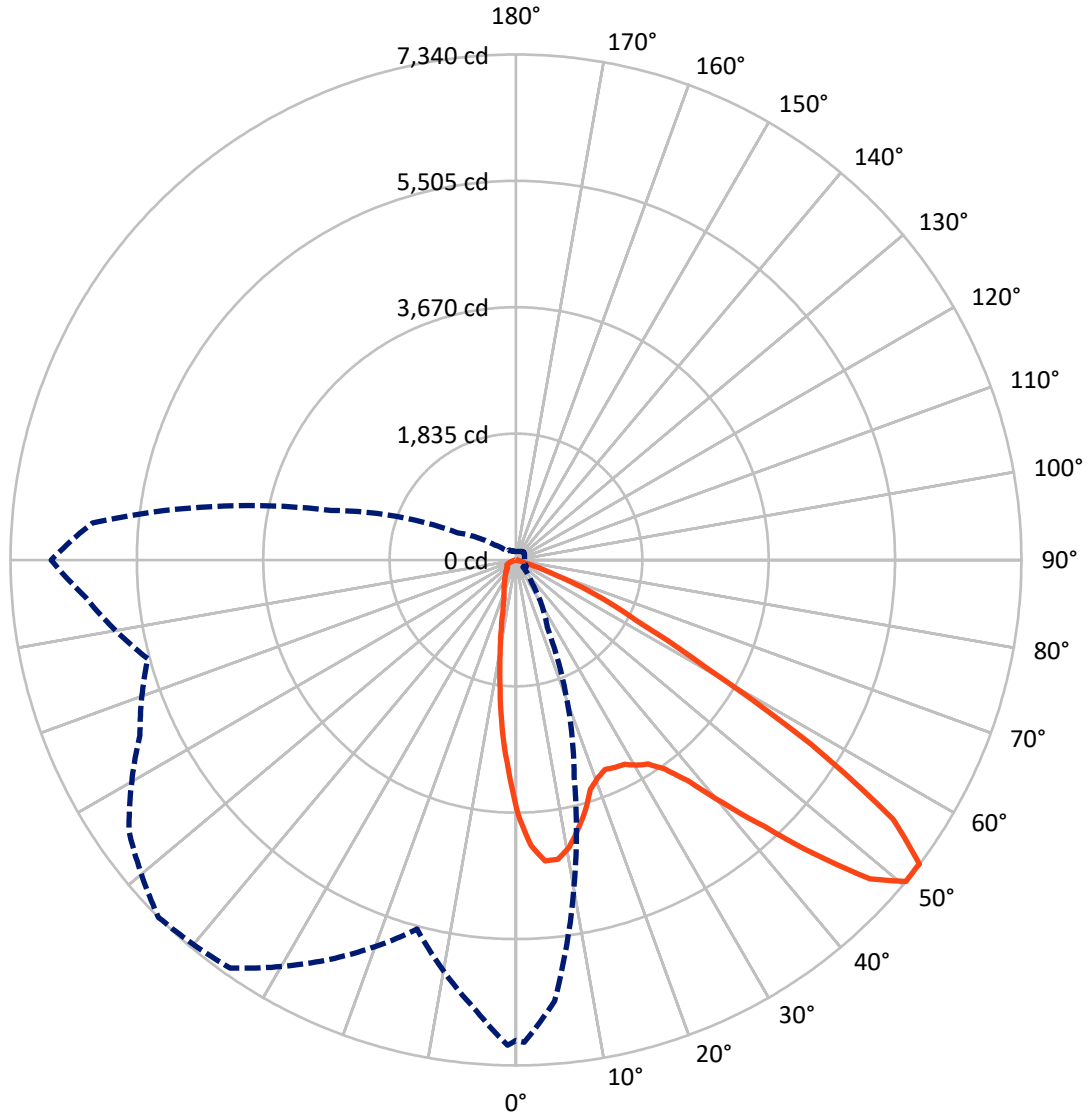
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1458.4	0.0	1458.4
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	5822.6	0.0	5822.6
	% Fixture	80.0	0.0	80.0
Total	Lumens	7281.0	0.0	7281.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.1	3.7
10°-20°	534.9	7.3
20°-30°	803.6	11.0
30°-40°	1206.1	16.6
40°-50°	1695.2	23.3
50°-60°	1828.5	25.1
60°-70°	849.0	11.7
70°-80°	79.9	1.1
80°-90°	14.7	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°	7281.0	100.0
0°-180°	7281.0	100.0

Coefficient of Utilization



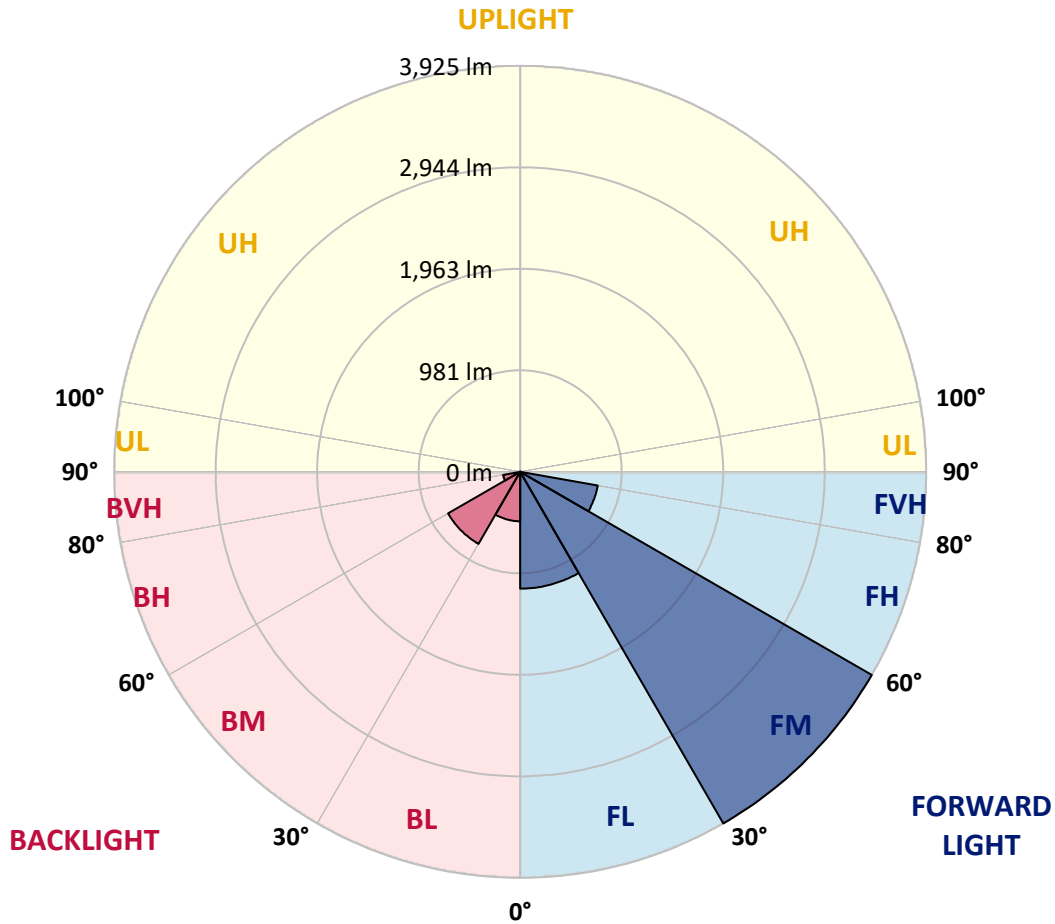
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1129.6	15.5			
FM (30°-60°)	3925.0	53.9			
FH (60°-80°)	761.4	10.5			G1/1800
FVH (80°-90°)	6.6	0.1			G0/10
BL (0°-30°)	478.0	6.6	B1/500		
BM (30°-60°)	804.8	11.1	B1/1000		
BH (60°-80°)	167.5	2.3	B1/500		G1/500
BVH (80°-90°)	8.1	0.1			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°	3692.4	3692.4	3692.4	3692.4	3692.4	3692.4	3692.4	3692.4	3692.4	3692.4	3692.4
2.5°	3838.3	3779.1	3703.9	3641.8	3549.4	3363.0	3312.5	3251.8	3201.2	3133.3	3038.0
5°	3490.1	3471.4	3436.7	3202.7	3033.6	2808.3	2623.4	2545.4	2442.8	2359.0	2298.4
7.5°	3224.3	3149.2	3039.4	2804.0	2533.8	2292.6	2087.4	1967.5	1831.7	1785.5	1703.2
10°	2939.8	2957.1	2795.3	2464.5	2138.0	1943.0	1815.9	1700.3	1577.5	1496.6	1379.6
12.5°	2848.7	2792.4	2668.2	2259.3	1980.5	1798.5	1643.9	1500.9	1370.9	1240.9	1128.2
15°	2908.0	2821.3	2647.9	2216.0	1859.2	1632.4	1438.8	1245.2	1125.3	959.2	842.2
17.5°	3120.3	3051.0	2818.4	2262.2	1797.1	1473.5	1186.0	986.7	803.2	653.0	593.7
20°	3474.3	3376.0	3084.2	2321.5	1704.6	1281.4	962.1	716.5	543.2	479.6	446.4
22.5°	3821.0	3767.5	3399.1	2435.6	1622.3	1110.9	722.3	482.5	405.9	394.4	372.7
25°	4481.1	4320.8	3880.2	2642.2	1558.7	950.5	544.6	388.6	343.8	335.1	338.0
27.5°	4874.1	4739.7	4325.1	2779.4	1487.9	827.8	460.8	356.8	326.5	307.7	300.5
30°	5251.1	5095.1	4546.1	2860.3	1336.3	697.7	408.8	342.4	335.1	307.7	299.0
32.5°	5541.5	5388.3	4865.4	2981.6	1274.1	614.0	336.6	267.3	248.5	245.6	271.6
35°	5986.4	5823.2	5138.4	3048.1	1226.5	570.6	291.8	238.4	216.7	208.0	209.5
37.5°	6401.0	6289.8	5391.2	3074.1	1175.9	557.6	261.5	213.8	195.0	189.2	187.8
40°	6747.7	6499.2	5631.0	3101.5	1154.2	533.1	242.7	195.0	182.0	173.4	173.4
42.5°	6906.6	6653.8	5899.7	3085.7	1148.5	494.1	242.7	179.1	169.0	160.4	158.9
45°	6871.9	6769.4	6019.6	3078.4	1148.5	455.0	221.0	174.8	160.4	148.8	145.9
47.5°	6961.5	6827.2	6169.9	3108.8	1125.3	427.6	186.4	183.5	151.7	137.2	134.3
50°	6977.4	7003.4	6431.3	3266.2	1074.8	392.9	145.9	180.6	145.9	124.2	121.3
52°	7081.4	6919.6	6510.8	3350.0	1021.3	366.9	122.8	154.6	140.1	115.6	112.7
52.5°	6938.4	7043.8	6529.6	3380.4	1027.1	349.6	118.5	151.7	137.2	115.6	108.3
55°	6778.0	6879.2	6453.0	3445.4	941.9	274.5	92.5	109.8	124.2	101.1	96.8
57.5°	5891.1	5993.6	5607.9	3155.0	767.1	193.6	76.6	82.3	109.8	93.9	89.6
60°	5236.7	5163.0	4706.5	2632.1	544.6	108.3	60.7	63.6	119.9	86.7	85.2
62.5°	4785.9	4628.5	3933.6	2032.5	332.3	72.2	47.7	49.1	92.5	80.9	80.9
65°	3540.7	3364.5	2613.3	1229.4	163.2	50.6	36.1	39.0	57.8	69.3	69.3
67.5°	2021.0	1953.1	1262.6	554.7	67.9	31.8	27.4	30.3	44.8	56.3	53.5
70°	928.9	833.5	485.4	117.0	31.8	21.7	21.7	24.6	36.1	41.9	39.0
72.5°	271.6	257.1	118.5	18.8	13.0	13.0	14.4	18.8	27.4	31.8	28.9
75°	20.2	13.0	8.7	5.8	5.8	8.7	11.6	18.8	27.4	30.3	24.6
77.5°	1.4	2.9	1.4	1.4	4.3	8.7	13.0	23.1	36.1	37.6	27.4
80°	1.4	1.4	0.0	1.4	4.3	8.7	14.4	26.0	40.4	43.3	23.1
82.5°	0.0	0.0	0.0	1.4	5.8	11.6	17.3	27.4	37.6	46.2	24.6
85°	0.0	0.0	0.0	1.4	8.7	15.9	20.2	7.2	4.3	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°	3692.4	3692.4	3692.4	3692.4	3692.4	3692.4	3692.4	3692.4	3692.4	3692.4	3692.4
2.5°	3105.9	3068.3	3053.9	3066.9	3062.5	3058.2	3137.7	3120.3	3117.4	3143.4	3137.7
5°	2331.6	2265.1	2447.1	2373.5	2450.0	2496.3	2504.9	2509.3	2562.7	2506.4	2580.0
7.5°	1661.3	1678.6	1677.2	1726.3	1814.4	1892.4	1938.6	1902.5	1899.6	1892.4	1860.6
10°	1327.6	1297.2	1291.5	1279.9	1307.4	1373.8	1430.1	1385.4	1353.6	1396.9	1383.9
12.5°	1084.9	1043.0	1019.9	973.7	975.1	1019.9	1019.9	1019.9	1051.7	1076.2	1095.0
15°	832.1	797.4	797.4	751.2	741.1	742.5	765.6	768.5	819.1	833.5	840.8
17.5°	582.2	563.4	585.1	603.8	592.3	595.2	603.8	606.7	614.0	608.2	622.6
20°	447.8	444.9	450.7	483.9	508.5	522.9	512.8	498.4	489.7	469.5	469.5
22.5°	379.9	385.7	395.8	423.3	455.0	463.7	452.2	418.9	392.9	390.0	391.5
25°	338.0	343.8	359.7	377.0	394.4	408.8	397.3	372.7	358.3	345.3	345.3
27.5°	312.0	314.9	323.6	336.6	351.0	362.6	358.3	345.3	329.4	323.6	310.6
30°	291.8	296.1	306.3	309.1	322.1	327.9	320.7	317.8	307.7	300.5	296.1
32.5°	281.7	280.3	287.5	290.4	291.8	296.1	287.5	291.8	290.4	278.8	274.5
35°	212.4	223.9	242.7	258.6	262.9	268.7	267.3	261.5	245.6	232.6	216.7
37.5°	190.7	197.9	208.0	221.0	238.4	245.6	242.7	228.2	209.5	200.8	197.9
40°	176.2	180.6	189.2	197.9	215.2	228.2	218.1	205.1	190.7	183.5	179.1
42.5°	163.2	164.7	169.0	177.7	190.7	210.9	193.6	176.2	170.5	166.1	163.2
45°	148.8	148.8	154.6	158.9	173.4	192.1	174.8	158.9	156.0	153.1	151.7
47.5°	137.2	138.7	141.6	147.3	158.9	171.9	160.4	147.3	140.1	138.7	135.8
50°	122.8	124.2	130.0	135.8	150.2	157.5	150.2	135.8	128.6	124.2	124.2
52°	111.2	115.6	121.3	132.9	143.0	154.6	145.9	130.0	121.3	117.0	114.1
52.5°	109.8	112.7	118.5	131.5	143.0	153.1	144.5	128.6	118.5	115.6	112.7
55°	98.2	102.6	112.7	128.6	141.6	153.1	141.6	127.1	112.7	105.5	102.6
57.5°	93.9	96.8	109.8	130.0	140.1	153.1	141.6	127.1	112.7	99.7	96.8
60°	89.6	95.3	109.8	125.7	138.7	154.6	143.0	125.7	109.8	93.9	93.9
62.5°	85.2	89.6	108.3	122.8	132.9	148.8	137.2	122.8	105.5	89.6	88.1
65°	73.7	80.9	95.3	102.6	114.1	128.6	117.0	106.9	92.5	79.5	78.0
67.5°	56.3	59.2	70.8	79.5	86.7	99.7	93.9	80.9	70.8	60.7	60.7
70°	39.0	41.9	50.6	54.9	62.1	69.3	65.0	54.9	47.7	41.9	40.4
72.5°	27.4	28.9	31.8	34.7	37.6	40.4	39.0	31.8	27.4	26.0	24.6
75°	21.7	24.6	26.0	24.6	23.1	21.7	21.7	18.8	15.9	14.4	14.4
77.5°	21.7	23.1	21.7	18.8	15.9	14.4	13.0	11.6	8.7	7.2	8.7
80°	18.8	18.8	18.8	15.9	14.4	13.0	11.6	10.1	8.7	7.2	7.2
82.5°	20.2	20.2	18.8	15.9	15.9	13.0	13.0	11.6	10.1	7.2	7.2
85°	0.0	0.0	0.0	2.9	7.2	13.0	13.0	11.6	10.1	8.7	8.7
87.5°	0.0	0.0	0.0	0.0	1.4	2.9	5.8	7.2	8.7	8.7	8.7
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°	3692.4	3692.4	3692.4	3692.4	3692.4	3692.4	3692.4	3692.4	3692.4	3692.4	3692.4
2.5°	3189.7	3244.6	3348.6	3452.6	3516.1	3591.3	3727.1	3799.3	3893.2	3939.4	4030.4
5°	2569.9	2699.9	2746.2	2864.6	2991.8	3118.9	3321.1	3543.6	3728.5	3855.6	4020.3
7.5°	1875.1	1905.4	2084.6	2164.0	2372.0	2603.2	2879.1	3159.3	3393.4	3601.4	3727.1
10°	1405.6	1516.8	1629.5	1781.2	1948.8	2187.1	2451.5	2760.6	3064.0	3272.0	3430.9
12.5°	1129.7	1217.8	1368.0	1531.3	1737.8	1895.3	2161.1	2467.4	2860.3	3064.0	3273.5
15°	855.2	967.9	1138.3	1307.4	1525.5	1691.6	1960.3	2346.0	2851.6	3131.9	3312.5
17.5°	634.2	710.7	863.9	1053.1	1275.6	1509.6	1872.2	2333.0	2948.4	3282.1	3468.5
20°	485.4	511.4	608.2	777.2	1018.4	1324.7	1729.2	2389.4	3234.4	3647.6	3836.8
22.5°	392.9	404.5	442.0	559.1	793.1	1162.9	1661.3	2428.4	3556.6	4085.3	4338.1
25°	342.4	339.5	364.0	414.6	619.7	1011.2	1574.6	2575.7	3951.0	4599.6	4826.4
27.5°	312.0	312.0	323.6	359.7	514.3	913.0	1519.7	2681.2	4348.2	5051.7	5174.5
30°	296.1	299.0	332.3	343.8	427.6	796.0	1428.7	2788.1	4728.2	5340.7	5509.7
32.5°	274.5	262.9	255.7	284.6	359.7	690.5	1337.7	2832.9	5035.9	5694.6	5839.1
35°	210.9	205.1	213.8	235.5	309.1	601.0	1236.6	2883.4	5389.8	6104.9	6133.8
37.5°	190.7	189.2	195.0	213.8	260.0	522.9	1164.3	2870.4	5659.9	6444.3	6366.3
40°	176.2	176.2	180.6	196.5	232.6	468.0	1089.2	2858.9	5921.4	6825.7	6597.5
42.5°	164.7	164.7	171.9	182.0	221.0	431.9	1032.9	2843.0	6141.0	7059.7	6733.3
45°	148.8	153.1	164.7	174.8	223.9	407.4	991.0	2782.3	6216.1	7056.8	6668.3
47.5°	137.2	143.0	154.6	169.0	202.2	400.2	962.1	2728.8	6190.1	6883.5	6464.6
50°	124.2	131.5	147.3	171.9	171.9	385.7	931.8	2776.5	6171.3	6749.1	6269.5
52°	115.6	121.3	141.6	167.6	150.2	355.4	913.0	2869.0	6247.9	6731.8	6182.9
52.5°	114.1	118.5	137.2	164.7	143.0	349.6	900.0	2890.6	6272.4	6688.5	6242.1
55°	101.1	106.9	125.7	128.6	117.0	287.5	858.1	2939.8	6151.1	6603.2	6185.8
57.5°	95.3	98.2	111.2	105.5	101.1	216.7	738.2	2863.2	5463.5	5865.1	5755.3
60°	88.1	91.0	104.0	82.3	85.2	151.7	554.7	2486.1	4387.2	4887.1	5085.0
62.5°	85.2	83.8	98.2	66.5	72.2	109.8	391.5	2021.0	3380.4	4023.2	4365.6
65°	75.1	73.7	70.8	56.3	62.1	85.2	234.0	1318.9	2382.1	3043.8	3231.6
67.5°	57.8	60.7	52.0	44.8	52.0	66.5	130.0	590.8	1249.6	1826.0	1977.7
70°	40.4	43.3	41.9	39.0	46.2	54.9	75.1	202.2	517.2	959.2	1057.4
72.5°	24.6	30.3	31.8	33.2	40.4	47.7	53.5	65.0	137.2	339.5	421.8
75°	14.4	20.2	24.6	28.9	33.2	40.4	44.8	46.2	47.7	63.6	102.6
77.5°	10.1	14.4	21.7	27.4	33.2	40.4	47.7	50.6	47.7	44.8	47.7
80°	8.7	14.4	20.2	26.0	34.7	41.9	47.7	47.7	46.2	40.4	43.3
82.5°	8.7	14.4	21.7	27.4	33.2	40.4	46.2	47.7	43.3	40.4	41.9
85°	10.1	15.9	23.1	28.9	36.1	33.2	30.3	24.6	23.1	18.8	20.2
87.5°	10.1	14.4	14.4	15.9	17.3	17.3	17.3	15.9	13.0	11.6	11.6
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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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3692.4	3692.4	3692.4	3692.4	3692.4	3692.4	3692.4	3692.4	3692.4	3692.4
2.5°	4034.8	4150.3	4146.0	4148.9	4131.5	4014.5	3958.2	3815.2	3855.6	3838.3
5°	4189.3	4303.4	4401.7	4390.1	4257.2	4098.3	3862.8	3640.4	3579.7	3490.1
7.5°	4034.8	4309.2	4400.2	4387.2	4190.8	3987.1	3611.5	3389.0	3283.6	3224.3
10°	3789.2	4107.0	4219.7	4242.8	4109.9	3800.7	3455.5	3098.7	3042.3	2939.8
12.5°	3649.0	3880.2	3949.5	4011.6	3965.4	3734.3	3337.0	2994.6	2916.6	2848.7
15°	3534.9	3672.2	3701.1	3771.8	3799.3	3675.0	3399.1	3107.3	2915.2	2908.0
17.5°	3640.4	3584.0	3478.6	3500.3	3586.9	3676.5	3559.5	3329.8	3143.4	3120.3
20°	3815.2	3566.7	3328.3	3381.8	3454.0	3728.5	3802.2	3640.4	3533.5	3474.3
22.5°	4016.0	3597.0	3280.7	3306.7	3443.9	3845.5	4195.1	4105.5	3906.2	3821.0
25°	4387.2	3680.8	3318.2	3335.6	3523.4	4008.8	4550.5	4616.9	4498.5	4481.1
27.5°	4749.8	3897.5	3400.6	3361.6	3563.8	4167.7	4765.7	5122.5	4914.5	4874.1
30°	4934.7	4073.8	3523.4	3456.9	3731.4	4264.4	4895.7	5451.9	5269.9	5251.1
32.5°	5217.9	4234.1	3618.7	3533.5	3825.3	4384.3	5138.4	5811.6	5635.4	5541.5
35°	5336.3	4408.9	3828.2	3728.5	4094.0	4551.9	5262.7	6132.3	6077.4	5986.4
37.5°	5564.6	4596.7	4075.2	4069.4	4419.0	4770.1	5486.6	6568.6	6558.5	6401.0
40°	5583.4	4801.8	4465.2	4647.3	4921.7	5150.0	5683.0	6689.9	6854.6	6747.7
42.5°	5612.3	5161.5	5139.9	5290.1	5525.6	5476.5	5690.3	6718.8	6970.2	6906.6
45°	5625.3	5521.2	5826.1	6103.4	6201.6	5904.1	5622.4	6663.9	7030.8	6871.9
47.5°	5521.2	5830.4	6380.8	6916.7	6945.6	6167.0	5593.5	6607.6	7067.0	6961.5
50°	5535.7	6024.0	6860.4	7340.0	7234.5	6399.6	5548.7	6572.9	7048.2	6977.4
52°	5501.0	6028.3	6928.3	7331.3	7257.6	6271.0	5472.1	6440.0	7030.8	7081.4
52.5°	5540.0	6002.3	6857.5	7337.1	7241.8	6334.5	5462.0	6513.7	7041.0	6938.4
55°	5405.7	5693.1	6442.9	6646.6	6632.1	5749.5	5151.4	6269.5	6776.6	6778.0
57.5°	4885.6	4934.7	5053.2	5048.9	4982.4	4520.1	4406.0	5765.4	6041.3	5891.1
60°	4304.9	3612.9	3293.7	3163.7	3090.0	3014.9	3897.5	5274.2	5300.2	5236.7
62.5°	3719.8	2504.9	2080.2	2044.1	2061.4	2335.9	3767.5	5079.2	4923.2	4785.9
65°	3001.9	1826.0	1511.0	1463.4	1632.4	1928.5	3049.5	3894.6	3654.8	3540.7
67.5°	1885.2	1331.9	1021.3	931.8	1135.5	1327.6	2003.7	2447.1	2178.4	2021.0
70°	1118.1	744.0	462.3	414.6	466.6	707.9	1122.5	1220.7	1009.8	928.9
72.5°	440.6	273.0	128.6	109.8	114.1	248.5	413.2	403.0	304.8	271.6
75°	118.5	82.3	44.8	36.1	30.3	46.2	66.5	43.3	15.9	20.2
77.5°	54.9	49.1	39.0	30.3	23.1	17.3	8.7	2.9	2.9	1.4
80°	47.7	41.9	36.1	30.3	23.1	14.4	7.2	1.4	1.4	1.4
82.5°	44.8	39.0	33.2	27.4	21.7	14.4	7.2	1.4	0.0	0.0
85°	18.8	24.6	27.4	26.0	23.1	14.4	7.2	1.4	0.0	0.0
87.5°	10.1	8.7	7.2	5.8	4.3	2.9	2.9	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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