

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: P527611

Luminaire Tested: **GALN-SA2C-827-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527611
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-SA2C-827-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1050mA 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: 5746 lumens
Efficiency: N/A
Efficacy: 53.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

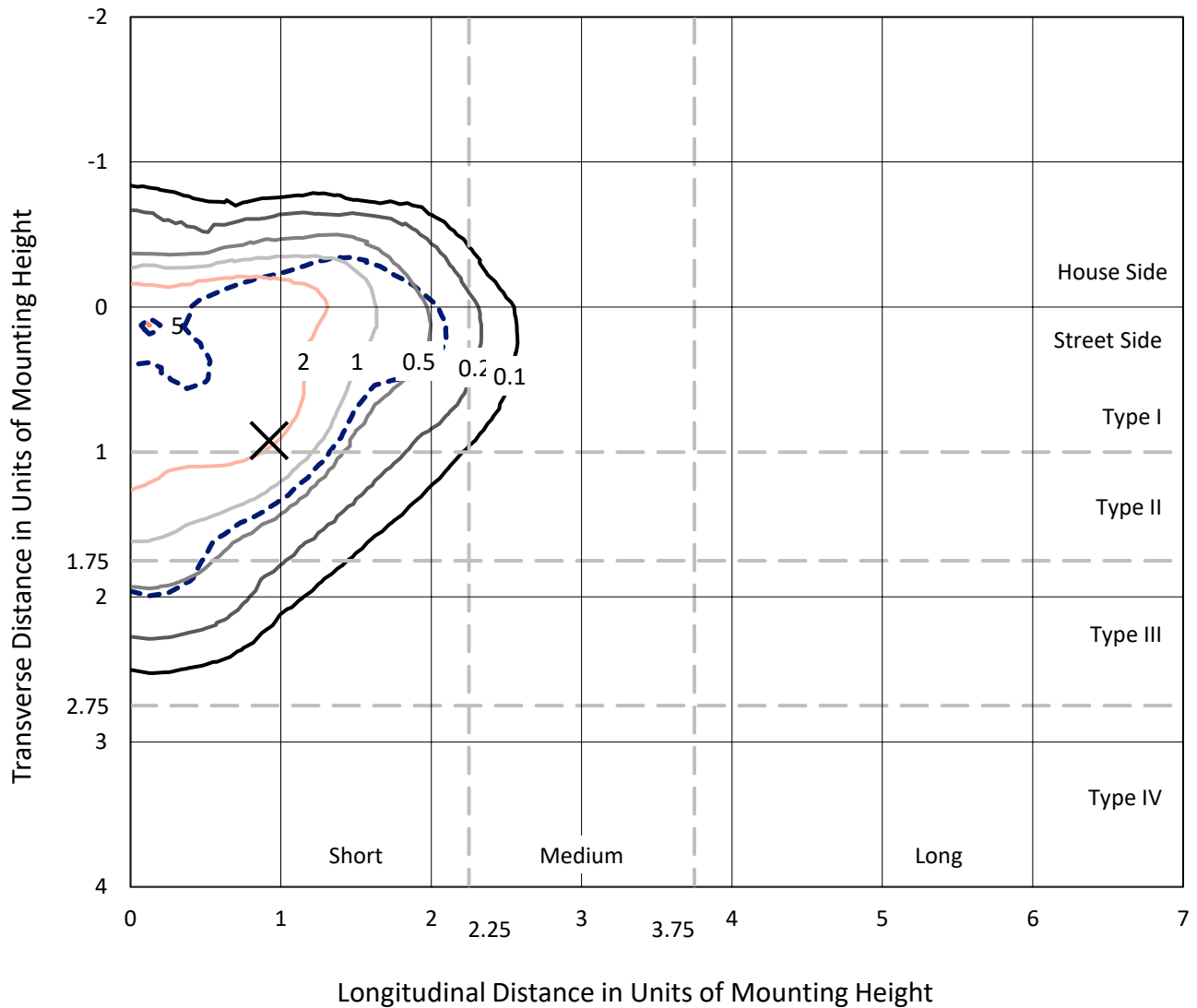
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

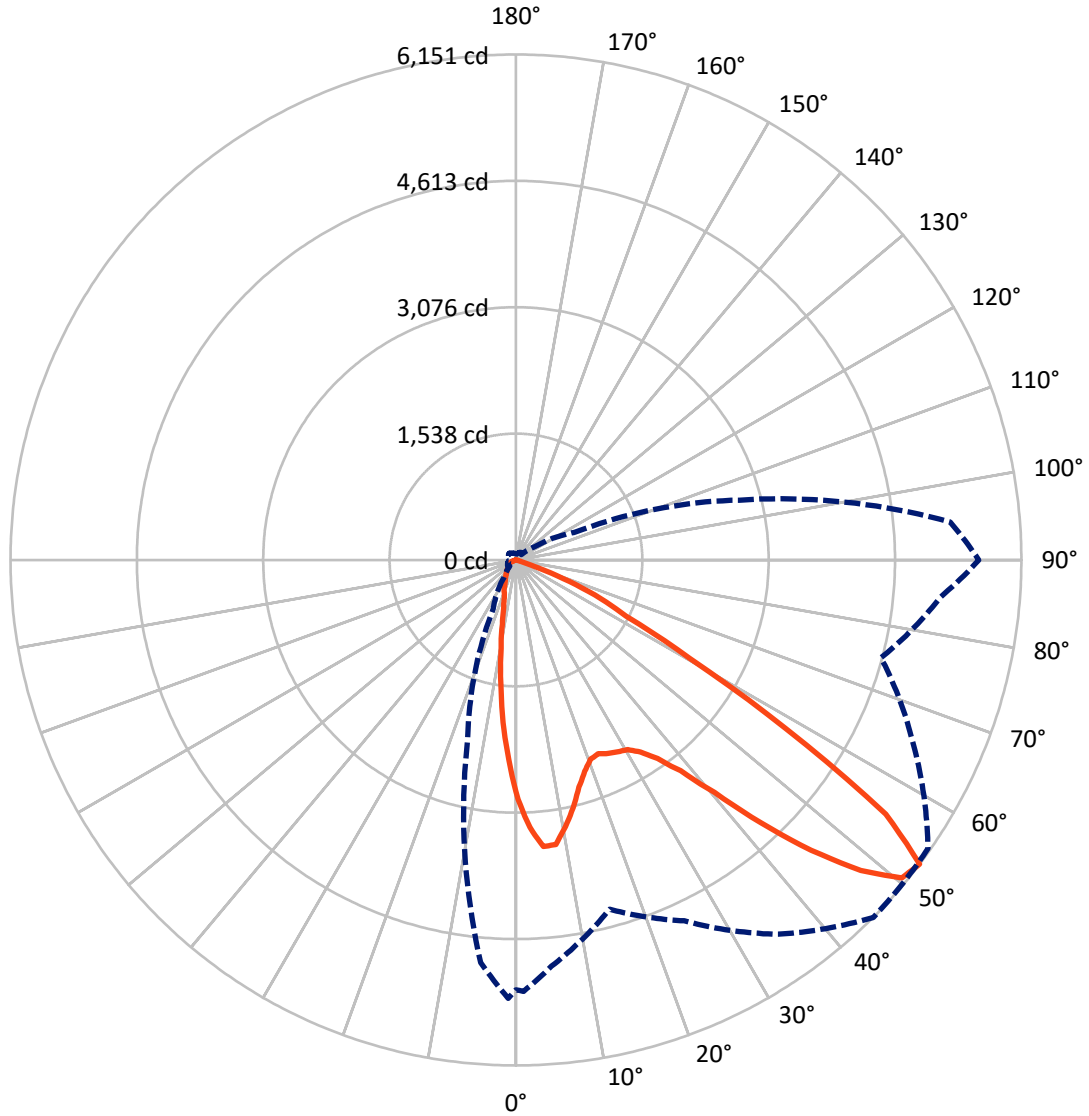
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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	1166.2	0.0	1166.2
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	4579.9	0.0	4579.9
	% Fixture	79.7	0.0	79.7
Total	Lumens	5746.0	0.0	5746.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.5	3.7
10°-20°	419.2	7.3
20°-30°	638.0	11.1
30°-40°	953.5	16.6
40°-50°	1357.9	23.6
50°-60°	1459.7	25.4
60°-70°	646.8	11.3
70°-80°	52.3	0.9
80°-90°	6.1	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°	5746.0	100.0
0°-180°	5746.0	100.0

Coefficient of Utilization



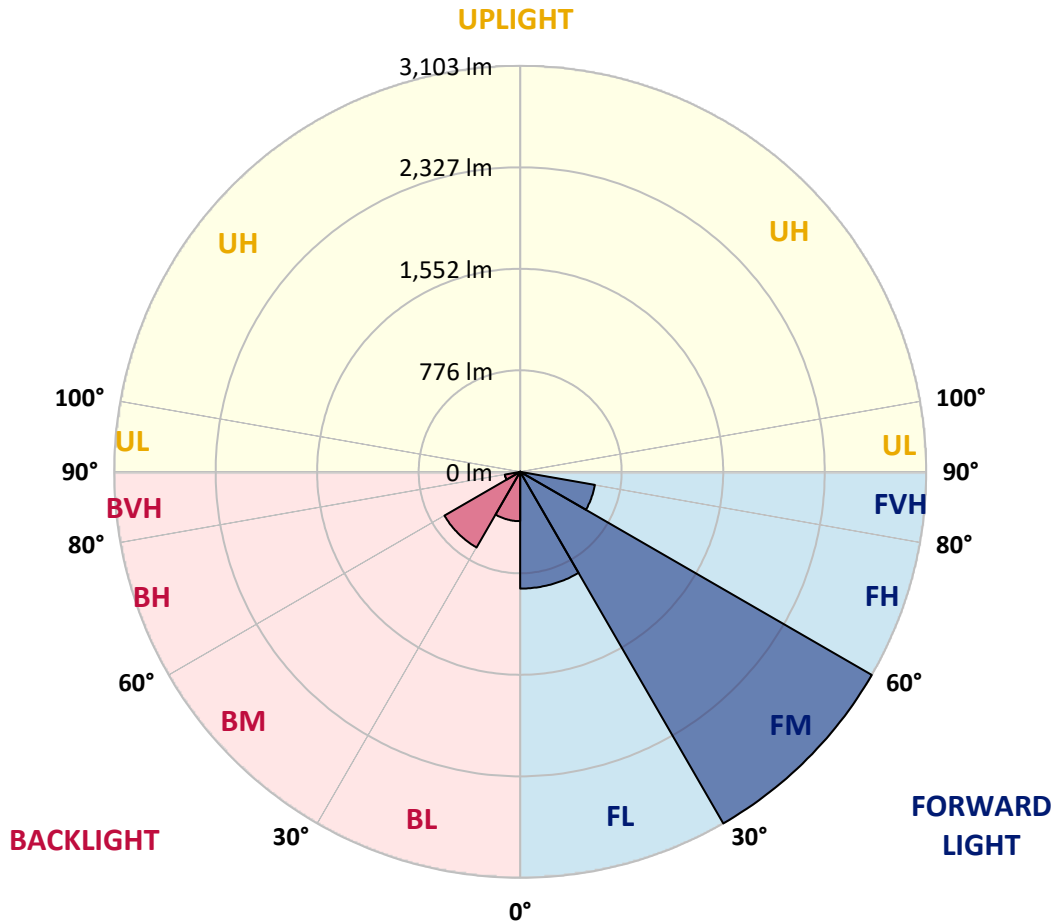
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	892.5	15.5			
FM (30°-60°)	3103.0	54.0			
FH (60°-80°)	579.8	10.1			G0/660
FVH (80°-90°)	4.5	0.1			G0/10
BL (0°-30°)	377.2	6.6	B1/500		
BM (30°-60°)	668.1	11.6	B1/1000		
BH (60°-80°)	119.3	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°	2913.5	2913.5	2913.5	2913.5	2913.5	2913.5	2913.5	2913.5	2913.5	2913.5	2913.5
2.5°	3083.0	3092.1	3141.8	3203.9	3236.7	3311.3	3259.3	3272.9	3244.6	3145.2	3067.2
5°	2989.2	2988.1	3051.4	3205.1	3350.9	3498.9	3503.4	3424.3	3285.3	3132.7	2914.6
7.5°	2706.7	2750.7	2816.3	3061.5	3331.6	3442.4	3495.5	3402.8	3189.2	2971.1	2734.9
10°	2493.1	2515.7	2626.4	2922.5	3120.3	3268.4	3301.1	3248.0	3084.1	2811.8	2547.3
12.5°	2369.9	2381.2	2511.2	2759.8	2968.9	3078.5	3094.3	3119.2	3001.6	2746.2	2428.7
15°	2371.0	2380.1	2555.2	2763.2	2845.7	2816.3	2868.3	2867.2	2918.0	2733.8	2528.1
17.5°	2541.7	2551.8	2710.1	2812.9	2776.7	2707.8	2704.4	2756.4	2863.8	2888.6	2678.4
20°	2835.5	2859.2	2975.6	2970.0	2766.6	2627.6	2589.1	2628.7	2878.5	3019.7	2981.3
22.5°	3231.1	3263.8	3345.2	3189.2	2812.9	2573.3	2560.9	2637.7	2975.6	3312.4	3324.9
25°	3689.9	3745.3	3784.8	3584.8	2977.9	2667.1	2608.4	2740.6	3106.7	3630.0	3762.2
27.5°	3993.9	4051.5	4042.5	3756.6	3088.7	2692.0	2642.3	2765.4	3220.9	3705.7	3990.5
30°	4231.2	4266.3	4329.5	3849.2	3199.4	2762.1	2677.3	2870.5	3258.2	3836.8	4266.3
32.5°	4508.1	4531.8	4536.4	4013.1	3370.1	2850.2	2785.8	3001.6	3423.2	3962.3	4510.4
35°	4787.3	4822.3	4748.8	4215.4	3475.2	3014.1	2966.6	3228.8	3555.4	4092.2	4779.3
37.5°	5090.1	5108.2	4938.7	4299.0	3625.5	3280.8	3254.8	3474.0	3784.8	4327.3	5077.7
40°	5344.4	5361.4	5141.0	4401.9	3783.7	3653.7	3720.4	3941.9	4096.7	4479.9	5226.9
42.5°	5485.7	5525.2	5208.8	4345.4	4101.3	4076.4	4372.5	4450.5	4458.4	4522.8	5360.2
45°	5524.1	5506.0	5096.9	4391.7	4379.3	4771.4	5040.4	5143.2	4817.8	4601.9	5394.1
47.5°	5346.7	5370.4	4931.9	4351.0	4744.3	5298.1	5646.2	5837.1	5085.6	4533.0	5310.5
50°	5203.1	5172.6	4878.8	4321.6	4842.6	5546.7	6083.5	6126.5	5332.0	4617.7	5219.0
52.5°	5231.4	5250.6	4963.6	4399.6	4844.9	5561.4	6151.3	6121.9	5339.9	4598.5	5186.2
55°	5291.3	5206.5	4927.4	4227.8	4520.5	5151.2	5459.7	5414.5	4928.5	4394.0	5106.0
57.5°	4565.7	4696.8	4530.7	3774.7	3710.2	3880.9	3875.2	4014.2	3676.3	3781.4	4648.2
60°	3705.7	3728.3	3790.5	3228.8	2567.7	2508.9	2427.5	2339.4	2473.9	3233.3	4227.8
62.5°	3259.3	3232.2	3453.7	2937.2	1812.7	1517.8	1504.2	1558.5	1908.8	3084.1	3965.6
65°	2368.8	2402.7	2563.1	2279.5	1360.7	1158.4	1138.0	1298.5	1544.9	2471.6	3026.5
67.5°	1446.6	1512.1	1526.8	1405.9	923.3	733.5	704.1	849.9	1115.4	1599.1	1774.3
70°	667.9	747.0	821.6	767.4	534.6	301.7	284.8	357.1	562.8	919.9	941.4
72.5°	202.3	203.4	284.8	297.2	172.9	67.8	59.9	79.1	191.0	304.0	319.8
75°	14.7	15.8	38.4	44.1	32.8	17.0	18.1	21.5	40.7	67.8	50.9
77.5°	1.1	1.1	1.1	5.7	10.2	11.3	14.7	17.0	21.5	24.9	22.6
80°	1.1	0.0	1.1	4.5	7.9	11.3	13.6	15.8	17.0	19.2	17.0
82.5°	0.0	0.0	0.0	3.4	7.9	11.3	12.4	17.0	19.2	22.6	19.2
85°	0.0	0.0	0.0	3.4	7.9	12.4	11.3	5.7	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°	2913.5	2913.5	2913.5	2913.5	2913.5	2913.5	2913.5	2913.5	2913.5	2913.5	2913.5
2.5°	3080.7	3036.7	2936.1	2885.2	2765.4	2748.5	2631.0	2611.7	2572.2	2550.7	2498.7
5°	2818.6	2765.4	2601.6	2463.7	2303.2	2191.3	2105.4	2027.5	1982.3	1940.4	1959.7
7.5°	2605.0	2450.1	2268.2	2037.6	1852.3	1732.5	1601.4	1494.0	1430.8	1387.8	1398.0
10°	2381.2	2280.6	2027.5	1768.7	1544.9	1460.1	1357.3	1274.8	1185.5	1108.7	1072.5
12.5°	2311.1	2161.9	1844.4	1581.1	1411.5	1329.0	1211.5	1116.6	1002.4	908.6	875.9
15°	2323.6	2180.0	1794.7	1513.3	1313.2	1170.8	1030.7	913.1	787.7	722.2	688.3
17.5°	2525.9	2277.2	1827.4	1442.1	1176.5	978.7	805.8	656.6	562.8	495.0	480.3
20°	2774.5	2487.4	1897.5	1390.1	1064.6	778.7	588.8	460.0	382.0	370.7	367.3
22.5°	3138.4	2831.0	2047.8	1355.0	927.8	606.9	403.5	334.5	313.0	310.8	311.9
25°	3646.9	3261.6	2211.7	1325.6	825.0	467.9	330.0	283.7	276.9	273.5	279.1
27.5°	3867.3	3521.5	2298.7	1262.4	731.2	421.5	325.5	281.4	262.2	256.5	259.9
30°	4139.7	3694.4	2435.4	1153.9	593.3	347.0	304.0	306.3	297.2	269.0	259.9
32.5°	4501.3	3910.3	2504.4	1077.0	530.0	287.1	222.6	204.6	228.3	232.8	240.7
35°	4733.0	4129.5	2539.4	1031.8	497.3	245.2	188.7	171.8	166.1	167.3	171.8
37.5°	5163.6	4425.6	2583.5	984.3	472.4	213.6	170.7	154.8	146.9	146.9	151.4
40°	5421.3	4660.7	2643.4	958.4	447.5	194.4	154.8	141.3	134.5	134.5	136.7
42.5°	5485.7	4777.1	2623.0	949.3	419.3	189.9	141.3	131.1	123.2	122.1	120.9
45°	5601.0	4954.5	2626.4	939.1	389.9	172.9	133.4	122.1	110.8	109.6	108.5
47.5°	5727.5	5082.2	2633.2	899.6	361.6	144.7	139.0	113.0	99.5	97.2	97.2
50°	5619.0	5183.9	2692.0	860.0	325.5	117.5	136.7	106.2	88.2	84.8	85.9
52.5°	5632.6	5303.7	2816.3	804.7	280.3	93.8	110.8	100.6	80.2	74.6	75.7
55°	5415.6	5177.2	2833.2	745.9	219.2	72.3	84.8	88.2	67.8	65.5	65.5
57.5°	4661.8	4383.8	2499.9	604.6	144.7	59.9	61.0	76.8	58.8	56.5	57.6
60°	3989.4	3519.2	2011.6	398.9	90.4	47.5	44.1	78.0	52.0	50.9	54.2
62.5°	3636.8	2892.0	1525.7	247.5	62.2	36.2	30.5	63.3	45.2	45.2	49.7
65°	2627.6	1942.7	887.2	130.0	44.1	28.3	22.6	36.2	37.3	38.4	40.7
67.5°	1627.4	981.0	374.1	63.3	29.4	19.2	14.7	22.6	24.9	24.9	27.1
70°	803.5	391.0	124.3	36.2	22.6	15.8	10.2	12.4	12.4	11.3	12.4
72.5°	248.6	117.5	31.6	22.6	15.8	10.2	5.7	4.5	2.3	0.0	1.1
75°	28.3	22.6	20.3	15.8	10.2	4.5	1.1	0.0	0.0	0.0	0.0
77.5°	17.0	19.2	19.2	15.8	10.2	3.4	0.0	0.0	0.0	0.0	0.0
80°	13.6	14.7	15.8	14.7	9.0	4.5	0.0	0.0	0.0	0.0	0.0
82.5°	17.0	19.2	21.5	19.2	12.4	5.7	2.3	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	3.4	1.1	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°	2913.5	2913.5	2913.5	2913.5	2913.5	2913.5	2913.5	2913.5	2913.5	2913.5	2913.5
2.5°	2477.3	2452.4	2487.4	2435.4	2434.3	2435.4	2420.8	2407.2	2428.7	2486.3	2491.9
5°	1890.7	1943.8	1960.8	2016.2	1985.6	1940.4	1949.5	1919.0	1993.6	2026.3	2000.3
7.5°	1376.5	1373.1	1487.3	1494.0	1508.7	1509.9	1507.6	1447.7	1386.7	1400.2	1440.9
10°	1068.0	1010.3	1065.7	1060.1	1096.2	1086.1	1100.8	1036.3	1057.8	1057.8	1083.8
12.5°	870.2	809.2	799.0	784.3	799.0	804.7	810.3	797.9	834.0	851.0	869.1
15°	664.5	630.6	621.6	593.3	597.8	613.7	627.2	632.9	621.6	647.6	649.8
17.5°	482.6	481.4	487.1	486.0	481.4	478.0	476.9	462.2	457.7	460.0	469.0
20°	366.2	375.2	394.4	413.6	423.8	411.4	394.4	369.6	359.4	361.6	362.8
22.5°	313.0	326.6	352.6	374.1	384.2	361.6	331.1	309.7	305.1	304.0	302.9
25°	283.7	299.5	318.7	325.5	324.3	310.8	288.2	279.1	276.9	274.6	264.5
27.5°	267.8	273.5	276.9	284.8	288.2	279.1	273.5	259.9	257.7	257.7	250.9
30°	258.8	255.4	259.9	254.3	258.8	252.0	253.2	253.2	247.5	249.8	249.8
32.5°	240.7	241.8	241.8	230.5	233.9	226.0	233.9	240.7	241.8	243.0	252.0
35°	176.3	196.6	206.8	206.8	210.2	204.6	203.4	195.5	185.3	175.2	170.7
37.5°	154.8	162.7	176.3	184.2	189.9	185.3	175.2	162.7	157.1	152.6	148.0
40°	137.9	144.7	153.7	162.7	174.0	168.4	152.6	146.9	140.1	140.1	135.6
42.5°	124.3	127.7	133.4	146.9	159.3	148.0	136.7	132.2	128.8	127.7	126.6
45°	111.9	113.0	118.7	130.0	144.7	133.4	122.1	116.4	117.5	118.7	117.5
47.5°	100.6	102.8	106.2	119.8	128.8	123.2	110.8	107.4	107.4	107.4	108.5
50°	87.0	92.7	99.5	110.8	117.5	114.1	104.0	99.5	97.2	97.2	98.3
52.5°	78.0	82.5	91.5	105.1	114.1	108.5	98.3	91.5	87.0	85.9	88.2
55°	67.8	75.7	90.4	100.6	113.0	107.4	96.1	88.2	80.2	79.1	79.1
57.5°	61.0	73.5	87.0	99.5	109.6	105.1	96.1	85.9	75.7	74.6	74.6
60°	57.6	71.2	84.8	96.1	109.6	102.8	94.9	83.6	72.3	72.3	71.2
62.5°	54.2	66.7	80.2	91.5	105.1	99.5	91.5	80.2	68.9	68.9	66.7
65°	45.2	57.6	66.7	76.8	91.5	85.9	78.0	70.1	61.0	58.8	59.9
67.5°	31.6	39.6	48.6	58.8	67.8	65.5	62.2	56.5	48.6	47.5	46.3
70°	15.8	21.5	29.4	39.6	47.5	45.2	42.9	38.4	33.9	32.8	32.8
72.5°	2.3	6.8	12.4	18.1	24.9	26.0	24.9	23.7	22.6	21.5	22.6
75°	0.0	0.0	0.0	4.5	10.2	12.4	14.7	17.0	17.0	14.7	18.1
77.5°	0.0	0.0	0.0	0.0	1.1	5.7	11.3	14.7	18.1	15.8	21.5
80°	0.0	0.0	0.0	0.0	1.1	6.8	11.3	15.8	18.1	15.8	22.6
82.5°	0.0	0.0	0.0	0.0	1.1	7.9	11.3	14.7	17.0	15.8	20.3
85°	0.0	0.0	0.0	0.0	3.4	6.8	4.5	2.3	1.1	1.1	3.4
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°	2913.5	2913.5	2913.5	2913.5	2913.5	2913.5	2913.5	2913.5	2913.5	2913.5
2.5°	2523.6	2603.8	2689.7	2722.5	2824.2	2901.1	2953.0	3064.9	3081.9	3083.0
5°	2027.5	2068.1	2215.1	2284.0	2435.4	2553.0	2678.4	2859.2	2980.2	2989.2
7.5°	1440.9	1553.9	1616.1	1795.8	1982.3	2166.5	2352.9	2563.1	2703.3	2706.7
10°	1159.5	1233.0	1343.7	1478.2	1635.3	1822.9	2071.5	2315.6	2458.0	2493.1
12.5°	933.5	1062.3	1188.9	1327.9	1447.7	1589.0	1856.8	2182.3	2299.8	2369.9
15°	718.8	836.3	985.5	1148.2	1283.8	1472.6	1777.7	2149.5	2347.3	2371.0
17.5°	530.0	635.1	773.0	926.7	1130.1	1398.0	1791.3	2315.6	2502.1	2541.7
20°	380.9	441.9	550.4	728.9	987.7	1311.0	1804.8	2484.0	2767.7	2835.5
22.5°	301.7	326.6	397.8	556.0	828.4	1219.4	1900.9	2806.1	3132.7	3231.1
25°	262.2	275.8	309.7	438.5	727.8	1210.4	2054.6	3192.6	3618.7	3689.9
27.5°	253.2	255.4	284.8	402.3	673.6	1150.5	2113.4	3467.3	3921.6	3993.9
30°	266.7	302.9	305.1	340.2	573.0	1031.8	2143.9	3732.8	4178.1	4231.2
32.5°	230.5	219.2	227.2	263.3	504.0	962.9	2201.5	3964.5	4470.8	4508.1
35°	160.5	168.4	186.5	228.3	440.8	890.5	2216.2	4219.9	4748.8	4787.3
37.5°	148.0	152.6	167.3	194.4	387.6	849.9	2195.9	4406.4	5037.0	5090.1
40°	137.9	143.5	151.4	176.3	348.1	804.7	2167.6	4574.8	5213.3	5344.4
42.5°	130.0	134.5	141.3	168.4	314.2	759.5	2128.0	4812.1	5371.5	5485.7
45°	120.9	127.7	135.6	163.9	295.0	728.9	2098.7	4797.4	5463.1	5524.1
47.5°	111.9	123.2	132.2	152.6	289.3	714.2	2111.1	4742.0	5388.5	5346.7
50°	102.8	117.5	133.4	126.6	275.8	684.9	2125.8	4817.8	5211.1	5203.1
52.5°	94.9	111.9	124.3	104.0	245.2	656.6	2268.2	4917.2	5336.5	5231.4
55°	83.6	100.6	99.5	83.6	198.9	635.1	2380.1	4919.5	5251.7	5291.3
57.5°	75.7	89.3	78.0	70.1	146.9	531.2	2198.1	4125.0	4495.7	4565.7
60°	70.1	87.0	58.8	55.4	96.1	383.1	1919.0	3194.9	3573.5	3705.7
62.5°	64.4	82.5	46.3	45.2	66.7	272.4	1577.7	2673.9	3079.6	3259.3
65°	56.5	58.8	37.3	35.0	47.5	146.9	960.6	1841.0	2302.1	2368.8
67.5°	46.3	45.2	30.5	28.3	31.6	71.2	423.8	922.2	1334.7	1446.6
70°	37.3	37.3	26.0	22.6	22.6	32.8	110.8	367.3	603.5	667.9
72.5°	27.1	28.3	20.3	18.1	17.0	15.8	18.1	73.5	158.2	202.3
75°	23.7	24.9	20.3	15.8	12.4	10.2	7.9	6.8	9.0	14.7
77.5°	26.0	26.0	21.5	14.7	11.3	7.9	4.5	2.3	2.3	1.1
80°	32.8	33.9	28.3	19.2	13.6	9.0	5.7	2.3	1.1	1.1
82.5°	35.0	38.4	31.6	23.7	17.0	10.2	5.7	1.1	0.0	0.0
85°	9.0	14.7	24.9	21.5	17.0	10.2	5.7	1.1	0.0	0.0
87.5°	0.0	1.1	3.4	3.4	4.5	4.5	3.4	1.1	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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