

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: P452059

Luminaire Tested: **GALN-SA3A-727-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452059
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-727-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9841 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G3

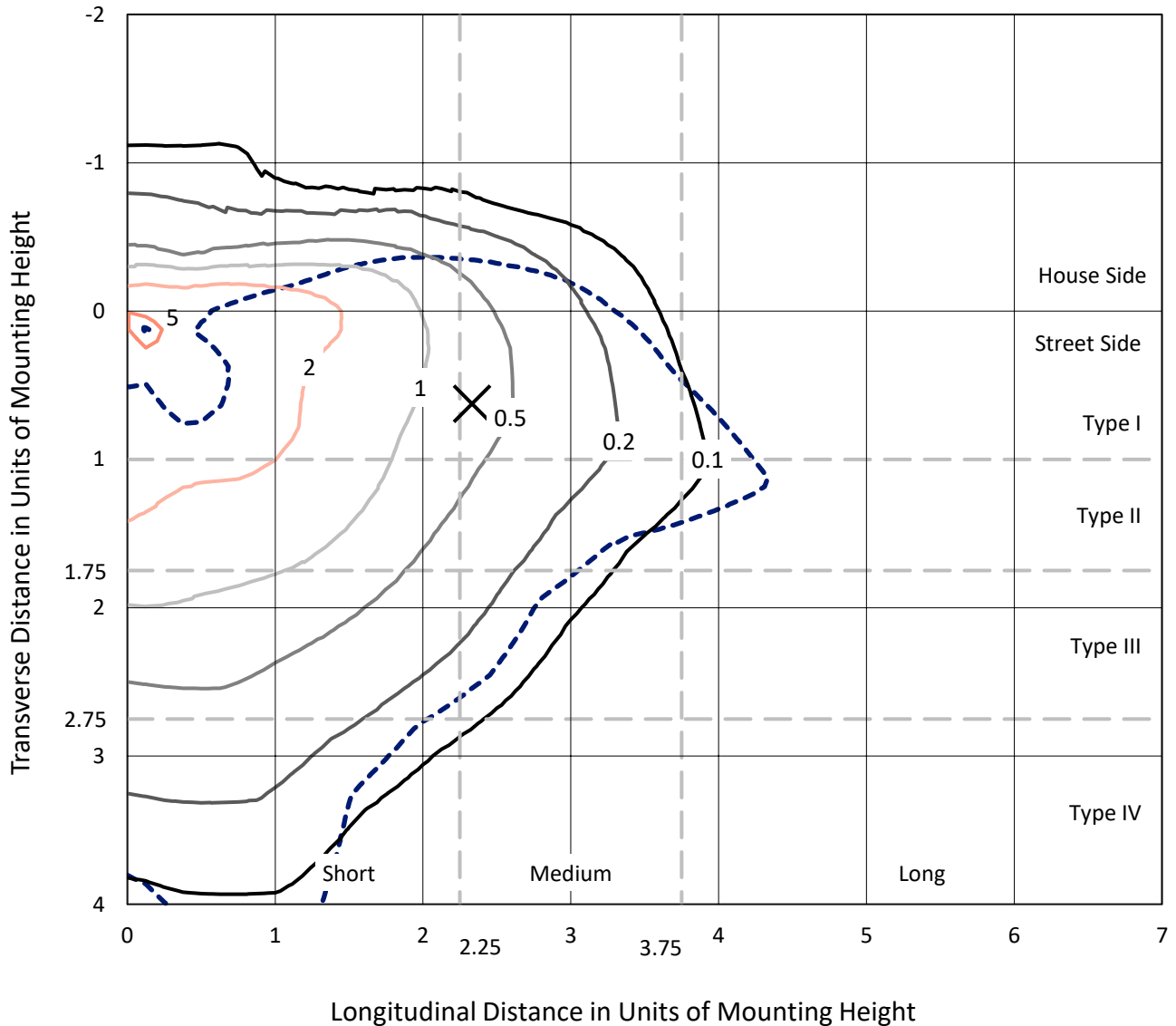
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

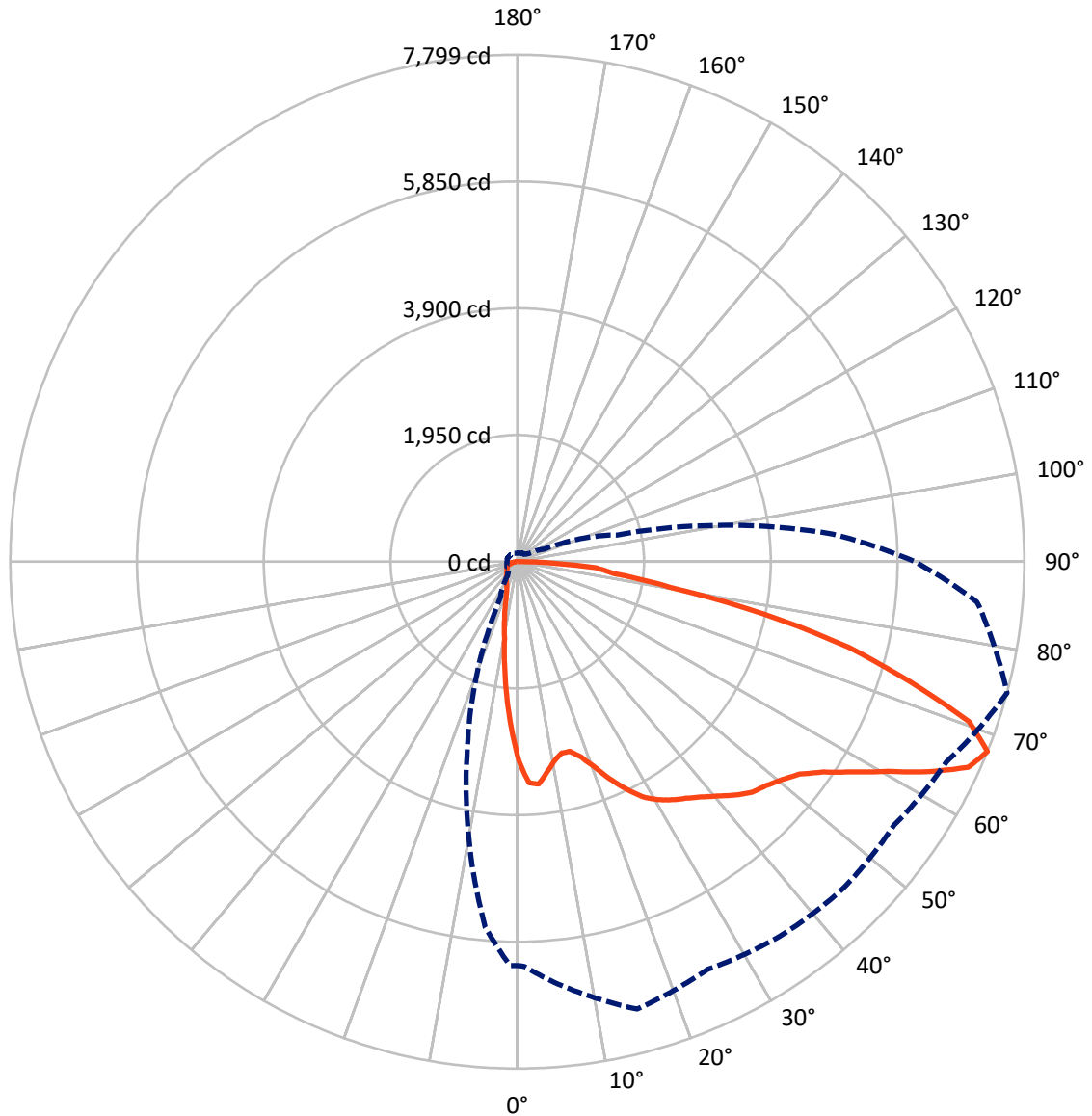
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1663.3	0.0	1663.3
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	8177.7	0.0	8177.7
	% Fixture	83.1	0.0	83.1
Total	Lumens	9841.0	0.0	9841.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.2	2.4
10°-20°	486.3	4.9
20°-30°	699.8	7.1
30°-40°	1008.0	10.2
40°-50°	1415.9	14.4
50°-60°	1974.7	20.1
60°-70°	2347.8	23.9
70°-80°	1382.7	14.1
80°-90°	292.4	3.0
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°	9841.0	100.0
0°-180°	9841.0	100.0



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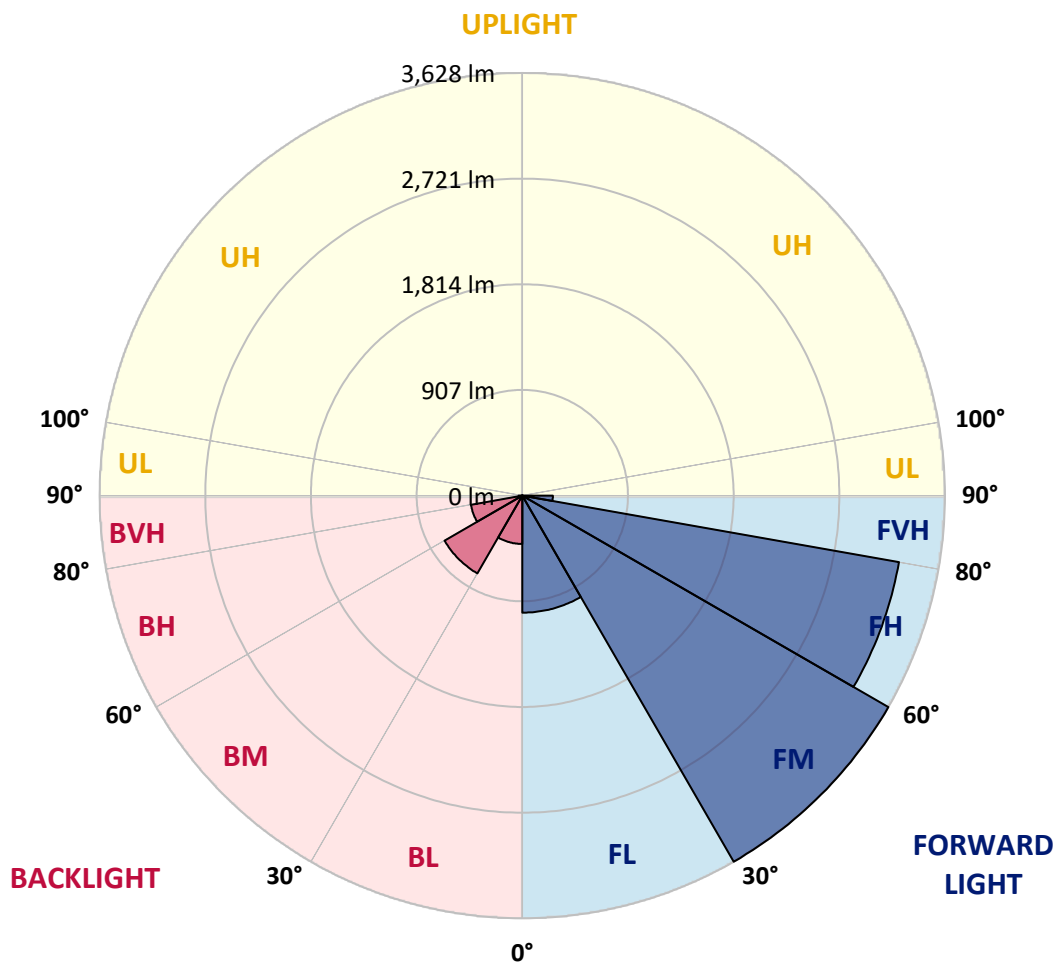
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1004.5	10.2			
FM	(30°-60°)	3628.0	36.9			
FH	(60°-80°)	3283.0	33.4			G2/5000
FVH	(80°-90°)	262.2	2.7			G3/500
BL	(0°-30°)	414.9	4.2	B1/500		
BM	(30°-60°)	770.6	7.8	B1/1000		
BH	(60°-80°)	447.6	4.5	B1/500		G1/500
BVH	(80°-90°)	30.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3074.6	3074.6	3074.6	3074.6	3074.6	3074.6	3074.6	3074.6	3074.6	3074.6	3074.6
2.5°	3315.0	3319.4	3347.8	3430.5	3487.3	3508.1	3522.6	3495.5	3469.0	3404.6	3307.4
5°	3304.9	3330.8	3404.6	3590.1	3736.6	3799.7	3818.6	3737.2	3602.8	3437.4	3238.6
7.5°	3111.8	3146.5	3260.1	3571.2	3829.3	3977.0	3957.4	3810.4	3568.1	3273.3	2995.7
10°	2882.7	2921.2	3058.2	3434.3	3766.8	3970.0	3970.0	3790.8	3469.0	3118.7	2798.8
12.5°	2701.0	2741.4	2897.9	3293.5	3636.8	3829.3	3861.5	3707.5	3397.7	3020.9	2669.4
15°	2641.0	2680.1	2848.6	3208.3	3499.3	3616.6	3627.4	3576.9	3363.0	3027.9	2663.7
17.5°	2715.5	2766.0	2936.4	3233.6	3373.1	3380.0	3388.2	3428.0	3366.7	3154.7	2778.6
20°	2930.7	2984.9	3162.9	3315.0	3262.6	3190.7	3195.1	3297.3	3411.6	3364.2	3053.1
22.5°	3241.2	3288.5	3470.9	3458.3	3215.9	3067.6	3036.7	3179.3	3477.8	3625.5	3345.3
25°	3576.3	3631.8	3841.3	3670.9	3229.2	2994.4	2974.9	3109.9	3546.6	3869.7	3682.9
27.5°	3959.9	4014.2	4179.6	3885.5	3298.6	2988.7	2965.4	3103.6	3608.4	4095.6	4005.4
30°	4245.2	4295.0	4407.4	4066.0	3383.8	3026.6	2997.6	3153.4	3661.5	4250.2	4319.7
32.5°	4469.2	4521.0	4582.2	4178.3	3496.1	3095.4	3041.7	3244.3	3730.9	4368.2	4552.5
35°	4702.7	4763.9	4759.5	4278.0	3600.9	3174.9	3122.5	3375.6	3840.0	4471.1	4847.9
37.5°	4998.7	5023.3	4991.7	4367.6	3726.5	3318.2	3289.1	3570.6	3995.3	4595.4	5193.1
40°	5299.1	5348.3	5186.1	4476.2	3879.2	3587.6	3584.5	3859.0	4179.6	4741.2	5527.5
42.5°	5556.6	5598.2	5367.9	4570.8	4064.1	3916.4	3940.4	4245.8	4421.3	4910.3	5796.4
45°	5750.3	5787.5	5535.7	4662.3	4307.7	4296.3	4437.7	4660.4	4726.1	5062.4	5954.1
47.5°	5915.0	5951.0	5652.5	4801.2	4608.7	4750.0	4996.2	5092.7	4986.7	5149.5	6130.8
50°	6053.8	6064.6	5732.6	4966.5	4982.3	5306.0	5544.6	5607.0	5244.2	5274.5	6284.2
52.5°	6198.3	6184.5	5870.8	5174.8	5386.2	5833.6	6007.1	6072.1	5490.9	5428.4	6507.6
55°	6522.1	6535.3	6180.7	5437.3	5794.5	6351.7	6580.1	6517.7	5764.2	5711.8	6791.5
57.5°	6913.3	6902.0	6616.7	5848.1	6210.3	6833.8	7004.2	6903.9	6128.9	6101.2	7079.3
60°	7065.4	7080.6	6981.5	6289.9	6620.5	7256.0	7430.2	7274.3	6566.3	6553.6	7296.4
62.5°	6912.7	6997.9	7064.8	6683.0	6970.1	7566.5	7739.4	7561.5	7022.5	7114.0	7448.5
65°	6608.5	6626.8	6854.7	7016.2	7138.6	7617.6	7707.9	7613.2	7403.7	7624.6	7441.5
67.5°	6213.5	6229.3	6496.2	7125.4	6921.5	7037.0	7100.1	7072.4	7285.7	7799.4	7098.9
70°	5837.4	5824.8	6106.8	6847.1	6025.4	5850.0	5902.4	5815.3	6286.7	7372.1	6426.8
72.5°	5105.3	5150.8	5453.7	6073.4	4770.9	4485.6	4599.9	4374.6	4835.2	6313.8	5216.4
75°	3999.1	4009.8	4515.3	5097.1	3599.0	3149.0	3303.6	3209.6	3703.7	5266.9	3602.1
77.5°	2769.1	2745.1	3288.5	3893.1	2566.6	2305.3	2307.8	2263.0	2586.1	3877.9	2447.3
80°	1758.8	1722.2	2058.5	2405.0	1763.8	1886.9	1825.0	1823.2	1683.7	2392.4	1479.9
82.5°	950.4	990.8	1300.6	1507.6	1265.3	1458.4	1336.6	1297.5	1155.5	1497.5	946.6
85°	432.9	470.8	693.5	1025.5	961.1	971.8	649.4	766.1	956.1	1216.1	505.5
87.5°	42.3	54.3	143.3	484.0	328.2	258.7	96.6	186.2	240.4	432.3	40.4
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°	3074.6	3074.6	3074.6	3074.6	3074.6	3074.6	3074.6	3074.6	3074.6	3074.6	3074.6
2.5°	3267.7	3234.9	3123.2	3031.0	2933.2	2858.7	2761.6	2696.6	2651.7	2584.2	2576.0
5°	3117.5	3037.3	2843.0	2644.8	2473.8	2345.0	2214.4	2094.5	2023.8	2001.7	1973.3
7.5°	2864.4	2729.4	2479.5	2252.3	2056.0	1864.2	1716.5	1611.7	1541.7	1500.7	1451.5
10°	2656.2	2499.7	2195.5	1917.2	1755.6	1636.4	1506.4	1394.0	1307.6	1233.7	1193.3
12.5°	2516.1	2339.4	1997.3	1771.4	1646.5	1519.6	1367.5	1241.3	1113.8	1029.9	993.9
15°	2473.8	2287.0	1936.1	1698.8	1519.6	1353.6	1183.3	1018.5	892.3	812.8	786.3
17.5°	2577.3	2351.4	1935.5	1602.3	1370.7	1172.5	954.2	799.6	670.2	610.9	591.9
20°	2770.4	2475.0	1941.2	1507.0	1209.1	930.2	694.2	567.3	505.5	480.2	470.8
22.5°	3039.9	2663.7	1958.2	1413.0	1032.4	714.4	520.0	455.6	433.5	429.1	427.2
25°	3371.8	2897.2	2015.6	1328.4	883.5	545.2	434.8	405.8	393.2	388.7	388.1
27.5°	3677.2	3198.9	2085.0	1255.8	739.6	470.1	393.2	368.5	355.9	355.3	356.6
30°	3953.0	3451.3	2143.1	1174.4	630.4	417.8	366.0	341.4	329.4	328.8	332.6
32.5°	4191.6	3658.9	2186.0	1094.3	569.9	385.6	341.4	314.9	304.8	302.9	304.8
35°	4446.5	3865.9	2166.5	1031.8	535.1	359.1	323.1	297.2	285.2	279.6	279.6
37.5°	4737.4	4079.2	2133.0	980.0	519.4	337.0	307.3	282.1	270.1	264.4	263.8
40°	5054.9	4292.5	2086.9	934.0	503.6	323.7	296.6	270.1	255.6	249.9	248.6
42.5°	5335.0	4474.9	2049.1	903.7	477.7	326.3	287.1	261.3	243.0	235.4	234.8
45°	5578.6	4658.5	2042.1	886.0	456.3	322.5	284.6	254.3	232.9	224.7	223.4
47.5°	5769.2	4849.8	2081.9	875.9	432.9	302.3	301.0	249.9	224.0	215.2	213.9
50°	6001.5	5121.1	2172.8	855.1	411.5	283.3	318.1	249.3	217.1	205.7	202.6
52.5°	6310.7	5474.5	2295.8	817.9	380.5	265.7	303.5	249.3	208.9	197.5	193.7
55°	6778.3	5925.1	2416.4	765.5	337.0	242.3	273.9	241.7	196.9	186.8	184.3
57.5°	7088.2	6254.5	2493.3	692.9	282.7	225.3	236.0	229.7	184.9	174.2	174.2
60°	7103.9	6342.9	2456.7	601.4	248.6	209.5	205.1	231.6	174.2	162.8	161.6
62.5°	6922.2	6126.4	2266.2	519.4	230.3	192.5	185.5	203.2	163.4	152.1	150.2
65°	6638.2	5574.2	1935.5	480.2	220.2	177.3	167.2	166.6	152.1	141.4	138.8
67.5°	6116.3	4871.2	1590.3	457.5	215.2	160.3	150.8	147.7	138.8	130.0	128.7
70°	5347.0	4079.9	1275.4	448.1	212.7	142.6	135.0	131.3	123.7	116.7	116.1
72.5°	4160.0	3309.3	1052.6	441.7	211.4	126.2	118.0	113.0	108.5	102.2	102.2
75°	2988.1	2434.7	803.3	398.2	195.6	108.5	99.7	96.6	90.2	85.2	86.5
77.5°	1883.7	1639.5	528.8	292.8	151.5	87.1	79.5	77.6	72.6	65.6	70.0
80°	1272.2	1153.0	308.6	184.3	95.3	63.7	61.2	60.6	54.9	47.3	48.0
82.5°	865.8	849.4	160.3	104.8	54.9	37.2	36.0	37.2	30.9	25.2	25.2
85°	338.3	461.9	75.7	41.0	17.7	5.7	8.2	8.8	5.0	2.5	3.2
87.5°	6.3	47.3	1.9	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°	3074.6	3074.6	3074.6	3074.6	3074.6	3074.6	3074.6	3074.6	3074.6	3074.6	3074.6
2.5°	2563.4	2557.7	2567.2	2526.8	2535.0	2550.1	2557.7	2562.1	2624.6	2610.1	2649.9
5°	1999.9	1994.2	2030.8	2035.8	2054.8	2051.0	2069.3	2073.7	2096.4	2104.6	2160.1
7.5°	1454.6	1479.2	1520.9	1542.3	1574.5	1584.6	1575.1	1598.5	1551.2	1585.2	1595.3
10°	1168.7	1139.1	1121.4	1170.6	1176.9	1223.6	1204.7	1189.6	1217.3	1218.6	1245.1
12.5°	973.1	909.4	867.1	881.0	896.1	916.3	919.5	949.8	970.0	988.9	1004.7
15°	763.0	740.9	702.4	683.4	704.9	713.1	732.7	757.9	779.4	785.0	806.5
17.5°	585.6	589.4	583.1	571.7	585.0	591.3	592.6	593.2	598.9	595.1	626.7
20°	471.4	484.7	500.4	503.0	507.4	510.5	504.9	483.4	484.0	497.3	507.4
22.5°	426.6	429.1	446.8	452.5	466.4	460.7	444.3	434.2	432.9	436.1	441.1
25°	391.3	395.0	407.7	416.5	427.2	417.1	405.1	395.7	394.4	397.6	402.6
27.5°	359.7	365.4	376.7	385.6	395.7	386.2	374.9	366.7	366.0	365.4	368.5
30°	334.5	340.8	349.0	359.1	366.0	357.8	347.1	342.7	342.0	340.8	342.0
32.5°	309.2	319.3	327.5	332.6	339.5	333.2	325.0	322.5	318.1	314.3	312.4
35°	280.8	291.6	304.2	310.5	317.4	311.1	305.4	294.7	287.1	286.5	287.8
37.5°	264.4	268.8	278.9	289.7	296.6	293.4	282.7	272.0	270.1	270.1	271.4
40°	249.9	251.8	256.2	270.1	282.7	273.3	260.0	256.8	256.8	256.2	256.8
42.5°	235.4	237.3	237.3	248.0	268.2	253.1	243.0	243.0	243.0	243.6	245.5
45°	222.1	222.8	222.1	229.7	248.6	236.0	229.1	231.0	232.2	233.5	234.8
47.5°	210.8	211.4	210.8	217.1	226.6	221.5	217.7	220.2	222.8	224.7	225.9
50°	200.7	200.0	201.3	205.1	209.5	210.8	208.3	212.0	213.3	215.8	219.0
52.5°	191.8	191.2	192.5	194.4	200.7	200.7	200.7	203.8	206.4	208.9	213.3
55°	181.7	182.4	184.3	186.8	195.0	193.7	194.4	196.9	199.4	203.2	205.7
57.5°	172.3	173.5	176.1	179.9	188.1	187.4	188.1	189.3	192.5	194.4	196.9
60°	161.6	164.1	167.2	169.8	178.0	177.3	180.5	183.0	184.9	184.9	186.2
62.5°	150.8	154.6	157.8	159.7	168.5	169.1	173.5	175.4	176.7	175.4	177.3
65°	140.1	145.8	147.0	149.6	158.4	159.0	164.1	168.5	167.2	166.0	169.1
67.5°	129.4	136.3	135.7	138.8	147.7	148.9	153.3	160.9	158.4	157.1	159.7
70°	117.4	122.4	123.1	125.0	136.9	135.0	142.0	148.9	147.0	147.7	147.7
72.5°	104.1	108.5	108.5	112.3	125.0	121.8	127.5	135.0	135.0	134.4	134.4
75°	88.3	90.9	93.4	99.1	112.3	108.5	112.3	119.3	120.5	119.3	119.3
77.5°	71.3	75.1	76.4	83.9	93.4	92.8	96.6	99.7	102.2	101.0	101.0
80°	50.5	54.3	59.3	67.5	73.2	75.1	77.0	79.5	80.8	80.8	82.0
82.5°	28.4	34.1	38.5	46.7	49.2	58.7	58.1	60.0	58.1	51.1	56.8
85°	6.3	12.0	17.0	21.5	24.6	34.1	36.0	40.4	33.4	30.9	30.9
87.5°	0.0	0.0	0.0	0.0	0.0	5.0	10.1	13.9	12.0	10.1	10.1
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°	3074.6	3074.6	3074.6	3074.6	3074.6	3074.6	3074.6	3074.6	3074.6	3074.6
2.5°	2683.3	2738.2	2804.5	2918.7	2998.8	3085.3	3172.4	3265.1	3289.8	3315.0
5°	2175.3	2283.2	2341.9	2495.2	2656.2	2860.6	3027.9	3210.9	3287.2	3304.9
7.5°	1647.7	1720.9	1874.9	2030.1	2229.6	2444.1	2700.3	2985.6	3074.6	3111.8
10°	1306.3	1406.0	1541.1	1707.7	1882.5	2113.4	2402.5	2735.7	2861.9	2882.7
12.5°	1111.9	1223.0	1370.0	1546.1	1711.5	1885.6	2177.2	2521.1	2656.2	2701.0
15°	889.2	1023.6	1193.3	1378.9	1558.7	1749.3	2044.7	2432.8	2588.6	2641.0
17.5°	698.6	807.1	990.8	1192.1	1405.4	1646.5	2016.9	2475.0	2666.9	2715.5
20°	534.5	612.1	766.7	979.4	1229.3	1544.9	2023.8	2634.7	2864.4	2930.7
22.5°	461.9	501.7	595.7	798.3	1077.9	1456.5	2052.2	2853.7	3130.7	3241.2
25°	418.4	439.2	492.2	624.8	933.3	1370.7	2117.2	3148.4	3503.1	3576.3
27.5°	381.2	396.3	429.1	524.4	802.1	1291.2	2193.0	3475.3	3850.8	3959.9
30°	345.8	366.0	396.9	465.7	718.2	1218.6	2288.3	3740.3	4143.6	4245.2
32.5°	318.7	338.9	367.3	424.7	646.8	1142.2	2345.0	3973.2	4382.8	4469.2
35°	296.6	313.6	343.3	391.9	592.6	1084.2	2333.7	4158.1	4614.4	4702.7
37.5°	280.8	295.3	325.0	361.0	551.6	1023.6	2328.0	4402.3	4896.5	4998.7
40°	266.3	281.5	308.6	340.8	510.5	952.3	2331.2	4644.7	5196.8	5299.1
42.5°	255.0	272.0	294.1	335.1	468.3	894.9	2331.2	4855.4	5458.1	5556.6
45°	245.5	263.8	285.2	334.5	434.8	851.3	2315.4	5036.6	5666.4	5750.3
47.5°	237.3	257.5	288.4	323.1	426.6	819.8	2301.5	5181.7	5836.1	5915.0
50°	231.6	255.6	306.7	309.9	429.1	810.3	2368.4	5364.7	5985.7	6053.8
52.5°	227.2	256.2	306.1	290.3	424.7	816.6	2507.9	5650.6	6193.3	6198.3
55°	218.3	255.6	290.3	268.2	406.4	827.3	2687.1	6065.8	6518.3	6522.1
57.5°	209.5	248.6	269.5	249.3	369.2	827.3	2902.9	6459.0	6910.2	6913.3
60°	200.7	258.7	236.7	232.9	320.6	812.2	3130.7	6631.9	7033.2	7065.4
62.5°	191.8	260.6	211.4	218.3	285.2	775.6	3300.5	6440.7	6866.6	6912.7
65°	181.7	210.1	195.0	203.2	266.9	714.4	3246.8	6090.4	6553.6	6608.5
67.5°	169.8	178.0	177.3	187.4	260.6	624.1	2964.1	5647.4	6216.6	6213.5
70°	155.2	159.7	161.6	172.3	248.6	554.1	2470.0	5072.5	5766.7	5837.4
72.5°	140.1	143.9	145.8	155.2	236.7	514.3	1917.2	4280.5	4994.9	5105.3
75°	123.7	126.2	128.7	136.9	224.0	455.6	1365.6	3267.7	3825.5	3999.1
77.5°	106.7	106.7	109.8	118.0	188.7	376.1	916.3	2292.0	2591.8	2769.1
80°	86.5	87.1	85.8	94.7	138.8	257.5	520.6	1531.0	1724.7	1758.8
82.5°	66.3	64.4	65.0	69.4	103.5	175.4	277.7	951.0	969.3	950.4
85°	41.7	41.7	40.4	45.4	66.3	91.5	151.5	582.5	455.0	432.9
87.5°	17.0	13.9	15.8	18.3	31.6	37.2	59.3	119.9	46.1	42.3
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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