

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: P450350

Luminaire Tested: **GALN-SA1A-827-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450350
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-827-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2932 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

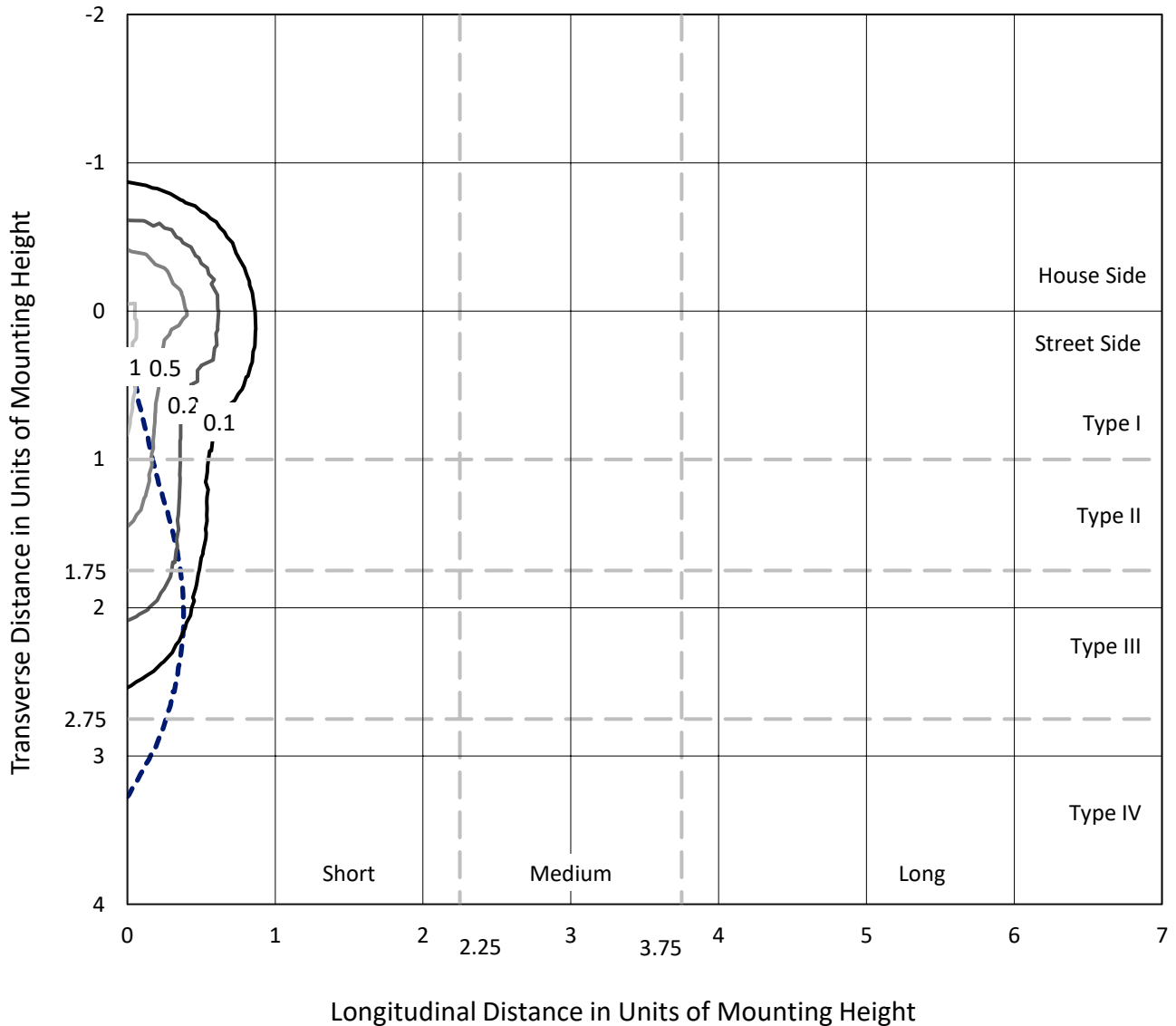
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

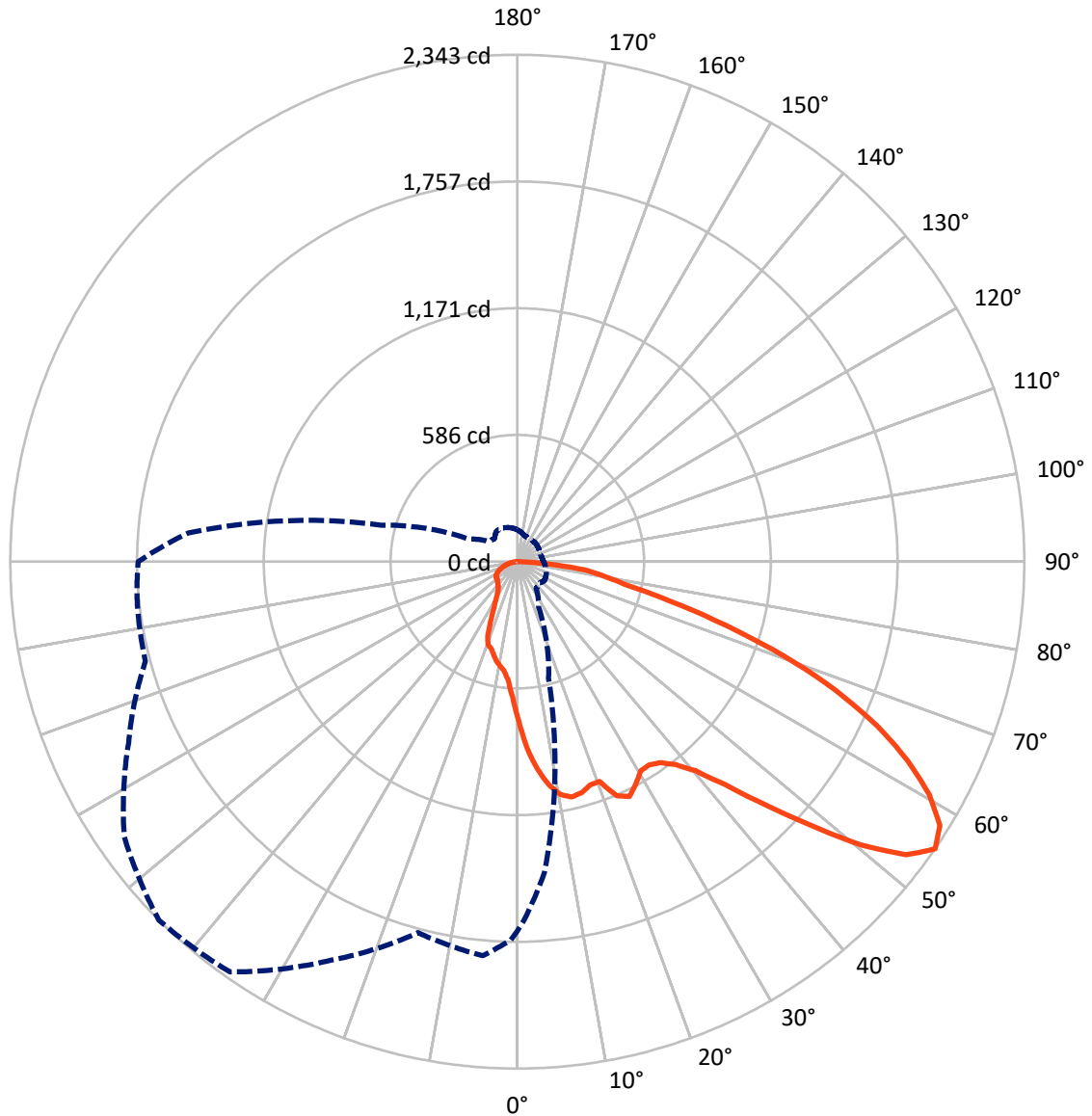
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	641.4	0.0	641.4
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	2290.6	0.0	2290.6
	% Fixture	78.1	0.0	78.1
Total	Lumens	2932.0	0.0	2932.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.4	2.1
10°-20°	165.4	5.6
20°-30°	285.8	9.7
30°-40°	332.2	11.3
40°-50°	463.4	15.8
50°-60°	628.8	21.4
60°-70°	598.3	20.4
70°-80°	323.2	11.0
80°-90°	72.4	2.5
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°	2932.0	100.0
0°-180°	2932.0	100.0



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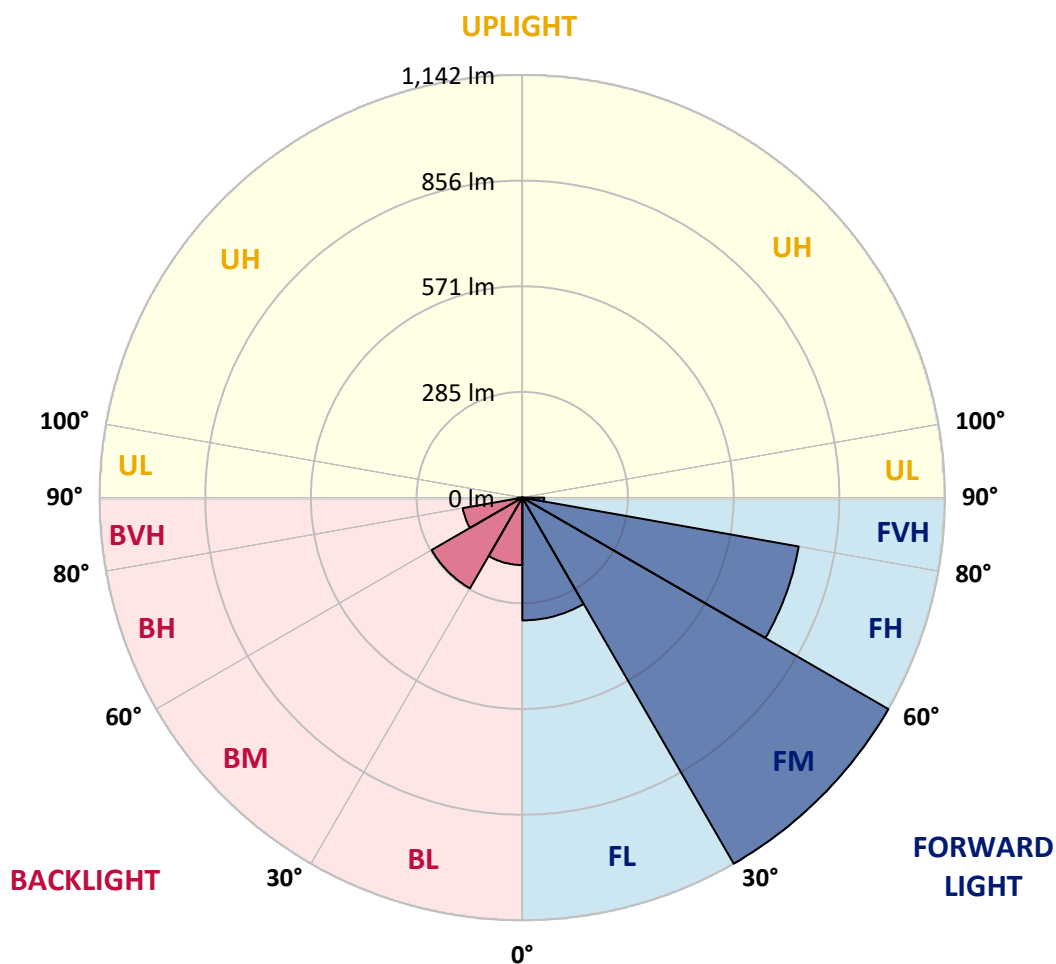
CATALOG NUMBER: GALN-SA1A-827-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	331.6	11.3			
FM (30°-60°)	1141.7	38.9			
FH (60°-80°)	758.2	25.9			G1/1800
FVH (80°-90°)	59.2	2.0			G1/100
BL (0°-30°)	182.0	6.2	B1/500		
BM (30°-60°)	282.8	9.6	B1/1000		
BH (60°-80°)	163.3	5.6	B1/500		G1/500
BVH (80°-90°)	13.2	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	735.8	735.8	735.8	735.8	735.8	735.8	735.8	735.8	735.8	735.8	735.8
2.5°	817.4	814.4	805.6	782.8	759.8	736.4	718.4	696.0	672.6	660.0	643.9
5°	828.7	825.2	804.7	753.2	706.6	657.7	618.6	584.4	570.4	549.9	533.5
7.5°	802.4	800.8	770.1	696.2	632.3	568.3	524.0	496.5	471.6	462.3	464.2
10°	778.4	772.2	733.7	637.2	562.7	510.7	478.9	452.1	434.4	429.8	430.8
12.5°	758.4	750.1	704.7	597.5	532.3	490.7	450.3	422.3	406.2	410.7	425.7
15°	754.4	743.2	692.5	584.0	515.7	462.1	417.8	385.5	373.5	383.2	407.4
17.5°	780.7	766.6	713.4	588.4	499.8	432.9	378.5	341.6	331.5	347.0	378.5
20°	865.2	844.3	778.6	614.1	498.3	418.4	355.7	318.6	322.8	352.2	385.1
22.5°	1021.5	990.2	892.7	651.7	506.4	414.7	351.1	331.7	355.1	380.1	401.8
25°	1052.5	1027.9	913.2	660.2	504.7	412.2	364.2	373.9	400.0	412.4	404.9
27.5°	1069.9	1041.8	911.8	618.0	451.3	373.9	348.2	364.2	370.8	358.8	338.3
30°	1110.5	1081.3	934.9	573.7	371.6	277.4	243.1	236.6	241.0	243.3	236.0
32.5°	1166.4	1137.6	978.2	544.7	321.3	229.4	195.8	186.5	184.3	181.8	178.9
35°	1238.7	1194.4	1020.7	526.1	300.6	212.2	181.2	174.1	171.2	167.7	164.6
37.5°	1312.2	1265.8	1074.5	506.6	286.9	200.2	171.6	168.3	163.3	159.6	155.1
40°	1390.4	1338.4	1123.5	489.6	273.5	192.5	164.6	164.2	157.6	153.4	148.2
42.5°	1458.1	1404.5	1167.2	479.1	263.3	184.3	160.4	161.5	154.7	148.4	141.6
45°	1511.9	1459.3	1207.6	479.1	254.9	176.2	159.6	158.8	152.0	144.1	136.4
47.5°	1559.1	1504.7	1247.1	491.3	249.7	169.4	155.3	156.7	149.7	139.7	132.1
50°	1595.6	1547.7	1300.3	510.3	244.5	164.0	149.9	157.3	147.8	137.3	128.6
52.5°	1642.2	1599.3	1364.3	536.2	240.0	158.0	145.1	157.3	147.6	137.5	128.1
55°	1706.8	1661.6	1441.5	557.7	232.9	152.4	140.8	152.8	147.0	136.6	126.5
57.5°	1752.1	1718.3	1496.0	572.0	222.6	145.3	137.0	148.6	144.5	132.9	121.9
58°	1754.2	1721.2	1503.9	575.3	220.1	143.9	136.0	146.6	143.3	131.3	120.3
60°	1729.9	1701.4	1505.5	570.6	205.8	137.1	131.0	138.7	137.1	122.2	112.0
62.5°	1641.3	1610.9	1443.0	532.9	186.9	128.8	123.2	128.1	124.6	109.5	100.0
65°	1515.4	1459.4	1314.6	473.7	173.3	119.9	112.8	113.2	109.5	98.7	90.3
67.5°	1347.6	1285.2	1113.0	399.2	163.1	110.1	100.4	99.4	95.0	88.0	81.2
70°	1141.3	1098.5	904.5	324.8	151.7	99.2	86.5	85.9	83.2	78.0	72.0
72.5°	925.0	870.6	730.4	260.0	137.7	88.8	73.5	74.7	71.2	67.5	62.1
75°	682.6	647.0	564.6	208.5	119.0	77.4	61.3	61.7	60.2	56.3	52.0
77.5°	449.5	438.9	403.9	137.0	91.5	61.5	50.1	50.5	49.3	45.8	41.4
80°	302.5	295.4	273.7	88.2	61.1	44.5	38.7	39.1	38.9	35.2	29.2
82.5°	186.5	183.4	176.4	59.6	42.4	31.9	25.5	26.7	28.8	24.8	19.9
85°	88.0	88.2	106.6	32.5	25.0	20.5	13.9	14.9	14.9	14.9	11.2
87.5°	11.4	12.0	14.7	13.7	9.1	7.7	5.0	4.3	3.7	4.8	3.5
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	735.8	735.8	735.8	735.8	735.8	735.8	735.8	735.8	735.8	735.8	735.8
2.5°	638.3	634.5	626.1	624.2	623.0	626.3	617.6	620.0	616.1	626.9	625.2
5°	534.5	534.8	541.6	546.1	547.6	546.1	540.3	530.2	522.5	519.4	520.1
7.5°	460.6	467.3	478.9	491.9	503.7	507.2	503.9	484.7	463.9	450.7	446.4
10°	436.0	445.1	458.4	468.7	479.1	487.5	489.2	474.3	449.5	418.4	406.2
12.5°	437.4	449.7	462.5	465.8	464.8	468.1	466.6	464.0	447.8	408.1	387.8
15°	424.6	439.3	448.2	446.4	443.3	440.4	436.4	430.0	424.2	396.3	373.9
17.5°	395.2	410.3	417.6	418.2	418.2	417.4	407.6	405.2	404.5	390.9	377.2
20°	400.6	408.9	405.6	400.2	401.8	407.0	401.2	400.0	404.5	410.5	407.9
22.5°	403.7	400.8	376.0	352.0	346.6	362.9	366.2	379.1	397.1	418.8	432.9
25°	384.5	361.1	316.8	289.8	274.5	289.6	309.3	333.3	360.2	388.0	404.5
27.5°	321.5	303.7	272.0	247.6	234.2	236.6	253.4	275.3	300.2	319.0	331.0
30°	242.2	234.2	217.8	209.5	201.4	199.4	206.6	214.9	225.9	228.3	231.3
32.5°	178.3	177.2	178.2	175.4	173.9	173.7	171.6	173.5	174.7	176.0	173.3
35°	161.3	159.8	157.1	156.3	155.3	155.7	154.7	153.8	154.6	155.7	156.5
37.5°	152.6	150.3	146.4	145.1	145.1	145.7	144.1	143.7	145.1	148.7	150.7
40°	145.8	143.1	138.7	137.0	138.1	139.7	137.5	136.8	140.0	143.9	147.0
42.5°	139.5	137.3	133.1	131.1	132.1	135.0	131.9	131.3	135.6	139.9	143.5
45°	134.0	131.9	128.1	127.1	127.5	130.2	128.1	128.1	132.1	136.8	140.0
47.5°	129.8	127.1	124.6	123.8	124.2	125.7	125.3	125.3	129.2	134.0	137.3
50°	125.5	123.2	119.9	120.3	121.3	123.4	123.2	123.8	127.7	133.7	137.1
52.5°	123.6	120.1	116.4	116.8	119.7	122.2	121.5	122.1	126.5	137.7	142.8
55°	121.5	116.8	112.6	113.2	116.4	120.1	119.2	119.9	125.2	140.4	147.4
57.5°	117.4	112.0	107.4	107.7	112.6	116.4	114.9	115.9	122.1	137.5	144.9
58°	115.7	111.0	106.6	106.8	111.4	115.7	113.9	114.7	121.1	136.8	143.7
60°	108.3	105.6	101.7	101.9	106.4	110.1	109.1	109.9	116.1	131.1	136.4
62.5°	98.3	96.7	95.7	95.7	98.5	101.9	102.9	103.9	109.5	118.6	123.2
65°	87.4	87.4	87.6	87.6	89.4	93.8	94.4	96.9	102.1	106.6	110.1
67.5°	80.1	79.7	80.1	79.1	79.9	82.6	85.5	87.8	93.2	96.3	97.5
70°	70.6	70.4	70.6	69.2	70.2	72.5	74.5	78.3	83.9	86.3	86.9
72.5°	61.3	61.3	61.7	60.7	60.7	63.3	64.6	68.9	74.1	75.4	75.6
75°	51.6	52.2	52.2	50.9	51.3	52.8	54.5	58.0	62.9	63.8	63.8
77.5°	41.0	43.1	43.1	41.8	42.4	42.6	44.9	46.6	50.3	50.7	49.1
80°	29.8	31.9	33.7	32.5	33.5	32.3	33.7	34.8	38.5	36.8	34.2
82.5°	21.3	22.8	24.2	24.4	23.4	21.3	23.0	23.2	25.0	22.6	21.3
85°	11.8	13.2	14.9	14.1	12.6	11.2	11.8	12.2	12.0	11.4	10.6
87.5°	3.1	3.3	3.7	2.7	2.5	2.1	2.9	2.9	3.3	3.5	3.3
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°	735.8	735.8	735.8	735.8	735.8	735.8	735.8	735.8	735.8	735.8	735.8
2.5°	626.5	635.0	653.4	667.3	684.4	705.1	729.4	754.0	780.5	788.8	800.4
5°	518.4	539.7	548.6	573.9	599.1	636.8	677.0	723.6	774.7	799.3	822.9
7.5°	443.0	454.4	463.7	482.2	512.4	558.2	608.7	667.0	739.3	775.1	809.7
10°	402.3	403.5	414.9	437.9	464.2	504.7	552.4	617.6	698.3	741.8	782.4
12.5°	375.5	370.4	382.8	406.8	436.6	473.9	517.8	579.9	668.7	713.4	762.5
15°	351.9	343.9	353.2	377.8	407.2	451.1	498.3	564.0	657.1	709.1	763.7
17.5°	352.4	330.6	333.9	354.6	383.8	428.5	485.7	563.5	674.7	734.7	799.3
20°	396.0	360.9	346.1	349.9	378.2	426.9	491.5	590.5	732.5	820.0	889.0
22.5°	438.7	417.6	393.6	385.7	401.2	452.2	528.5	654.6	858.3	990.0	1114.8
25°	423.8	441.8	435.8	424.6	428.1	470.4	553.6	707.2	955.9	1104.3	1221.5
27.5°	339.1	371.8	378.4	378.2	379.5	414.3	497.9	671.8	968.1	1126.2	1238.2
30°	238.3	241.2	244.7	251.5	257.7	288.8	389.6	589.8	962.7	1136.0	1248.2
32.5°	172.0	175.8	180.7	190.0	204.7	244.3	340.8	563.7	991.3	1176.8	1277.6
35°	157.3	161.7	166.4	177.0	190.9	227.7	321.5	552.8	1038.3	1243.0	1330.4
37.5°	152.6	157.6	161.7	169.4	180.7	215.7	303.9	545.5	1086.5	1313.0	1401.2
40°	149.3	155.1	158.4	164.6	172.3	204.7	288.2	539.7	1133.1	1377.0	1458.1
42.5°	146.4	152.4	156.7	161.1	167.5	194.8	274.3	533.9	1173.6	1439.1	1514.8
45°	142.9	150.5	155.9	159.4	165.0	186.5	263.6	529.2	1219.6	1494.3	1572.0
47.5°	140.0	148.4	155.1	159.2	161.3	180.7	255.1	535.6	1274.9	1551.9	1625.2
50°	140.2	148.2	156.7	163.1	157.5	175.8	249.9	561.0	1346.9	1620.4	1667.2
52.5°	146.4	156.1	162.9	164.4	152.0	170.0	247.2	605.3	1432.0	1680.9	1709.6
55°	153.4	163.5	170.8	169.8	149.1	162.7	246.6	652.4	1525.2	1751.5	1764.7
57.5°	150.9	165.6	176.8	171.8	149.3	155.5	244.1	690.6	1603.2	1804.3	1819.2
58°	150.1	164.8	177.6	171.4	148.7	153.4	243.5	693.8	1614.0	1808.0	1827.0
60°	142.6	158.0	177.0	168.5	145.5	147.6	237.1	704.5	1611.1	1789.1	1831.6
62.5°	128.8	141.6	163.6	154.4	135.4	139.9	222.8	691.3	1532.6	1697.8	1763.7
65°	113.4	122.8	137.5	135.8	121.1	131.9	203.3	639.3	1375.3	1549.6	1619.0
67.5°	101.7	109.5	118.8	116.3	108.9	121.3	182.2	551.3	1198.9	1371.6	1459.1
70°	89.9	95.9	100.6	98.8	96.5	110.8	163.5	447.4	1029.8	1202.6	1287.3
72.5°	78.0	83.6	87.4	84.9	83.6	99.8	148.2	347.2	813.4	992.1	1101.0
75°	65.2	70.8	73.5	70.6	69.8	88.0	125.5	259.4	610.3	764.8	858.8
77.5°	50.5	56.5	60.0	59.0	59.4	72.3	101.4	177.6	436.4	521.3	620.3
80°	35.4	42.0	44.3	43.3	46.0	55.1	71.6	112.8	301.0	338.3	408.1
82.5°	21.9	28.0	28.4	29.4	31.3	40.8	54.0	68.7	189.0	195.4	246.0
85°	11.0	13.3	14.3	15.9	17.6	25.0	30.8	42.6	121.7	92.1	137.5
87.5°	3.7	3.9	4.6	5.8	7.2	10.3	13.2	17.4	30.2	16.6	42.6
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°	735.8	735.8	735.8	735.8	735.8	735.8	735.8	735.8	735.8	735.8
2.5°	823.8	840.3	852.3	863.3	852.7	851.7	841.2	824.4	817.4	817.4
5°	872.4	910.9	942.0	961.9	953.4	932.9	899.1	855.9	832.7	828.7
7.5°	885.7	961.7	1019.6	1040.1	1025.8	980.5	915.7	843.0	809.7	802.4
10°	877.6	976.4	1061.4	1093.9	1073.9	1005.5	917.1	827.9	786.9	778.4
12.5°	869.1	978.4	1069.1	1116.1	1103.1	1025.6	926.9	818.0	770.6	758.4
15°	875.3	979.2	1059.6	1108.2	1116.5	1049.8	943.2	825.2	767.3	754.4
17.5°	914.4	993.9	1046.1	1085.4	1114.6	1082.6	989.4	859.4	796.7	780.7
20°	996.0	1029.1	1053.8	1084.2	1131.2	1149.8	1084.0	953.4	879.3	865.2
22.5°	1232.4	1226.4	1175.7	1175.1	1243.2	1317.7	1313.2	1144.5	1033.1	1021.5
25°	1321.0	1293.1	1219.8	1202.0	1232.0	1346.9	1330.2	1183.6	1080.7	1052.5
27.5°	1286.3	1217.3	1169.1	1165.0	1155.2	1263.7	1303.7	1199.5	1097.3	1069.9
30°	1284.2	1182.6	1113.8	1121.9	1131.4	1235.1	1318.4	1249.2	1139.9	1110.5
32.5°	1289.4	1187.5	1117.8	1119.4	1147.6	1239.3	1334.7	1303.3	1195.8	1166.4
35°	1310.5	1214.9	1143.8	1140.1	1184.2	1267.2	1362.3	1388.5	1272.2	1238.7
37.5°	1344.5	1269.7	1191.2	1190.2	1254.2	1317.5	1396.8	1474.3	1348.2	1312.2
40°	1394.6	1333.7	1275.5	1270.3	1349.4	1399.3	1441.5	1565.8	1436.6	1390.4
42.5°	1455.2	1410.5	1386.7	1407.4	1483.4	1491.2	1511.1	1650.4	1511.9	1458.1
45°	1511.3	1509.2	1542.2	1597.2	1641.5	1595.0	1583.8	1707.0	1570.3	1511.9
47.5°	1578.0	1635.7	1735.5	1815.9	1862.4	1715.9	1645.9	1744.0	1612.8	1559.1
50°	1645.7	1787.1	1946.5	2058.7	2068.6	1847.3	1688.7	1778.8	1651.5	1595.6
52.5°	1716.9	1908.0	2120.2	2250.6	2231.4	1961.6	1730.1	1802.4	1691.4	1642.2
55°	1778.8	1982.1	2217.3	2342.5	2314.4	2031.2	1774.7	1827.9	1748.2	1706.8
57.5°	1813.4	1988.3	2193.1	2302.4	2272.1	2017.7	1795.2	1846.9	1784.6	1752.1
58°	1818.5	1980.0	2171.7	2279.2	2248.3	2006.3	1795.1	1846.1	1786.9	1754.2
60°	1814.0	1926.0	2091.8	2187.5	2155.0	1934.7	1787.7	1831.6	1757.5	1729.9
62.5°	1772.8	1832.4	1953.9	2023.5	2014.2	1822.9	1757.5	1776.9	1668.0	1641.3
65°	1718.6	1704.7	1777.3	1826.6	1833.5	1739.2	1727.5	1658.5	1553.1	1515.4
67.5°	1652.9	1560.0	1559.8	1587.9	1599.5	1610.3	1665.1	1529.9	1387.5	1347.6
70°	1541.3	1337.0	1275.5	1308.6	1298.9	1390.4	1553.5	1349.2	1187.9	1141.3
72.5°	1336.6	1061.0	962.5	1005.1	980.7	1090.4	1359.3	1110.3	982.3	925.0
75°	1083.4	793.7	692.1	731.2	716.1	827.1	1131.0	806.4	704.5	682.6
77.5°	841.2	575.1	516.1	510.7	521.9	615.5	829.6	544.5	464.4	449.5
80°	540.5	411.6	415.1	408.1	413.9	388.0	503.7	347.4	314.5	302.5
82.5°	355.7	286.9	342.0	315.7	299.8	260.9	330.4	227.5	193.0	186.5
85°	242.4	211.2	192.3	147.0	173.1	201.0	247.8	122.4	97.1	88.0
87.5°	109.5	73.5	54.0	33.3	52.6	60.7	120.3	14.3	11.0	11.4
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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