

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: P450205

Luminaire Tested: **GALN-SA1A-727-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450205
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-727-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 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: 3336 lumens
Efficiency: N/A
Efficacy: 101.1 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

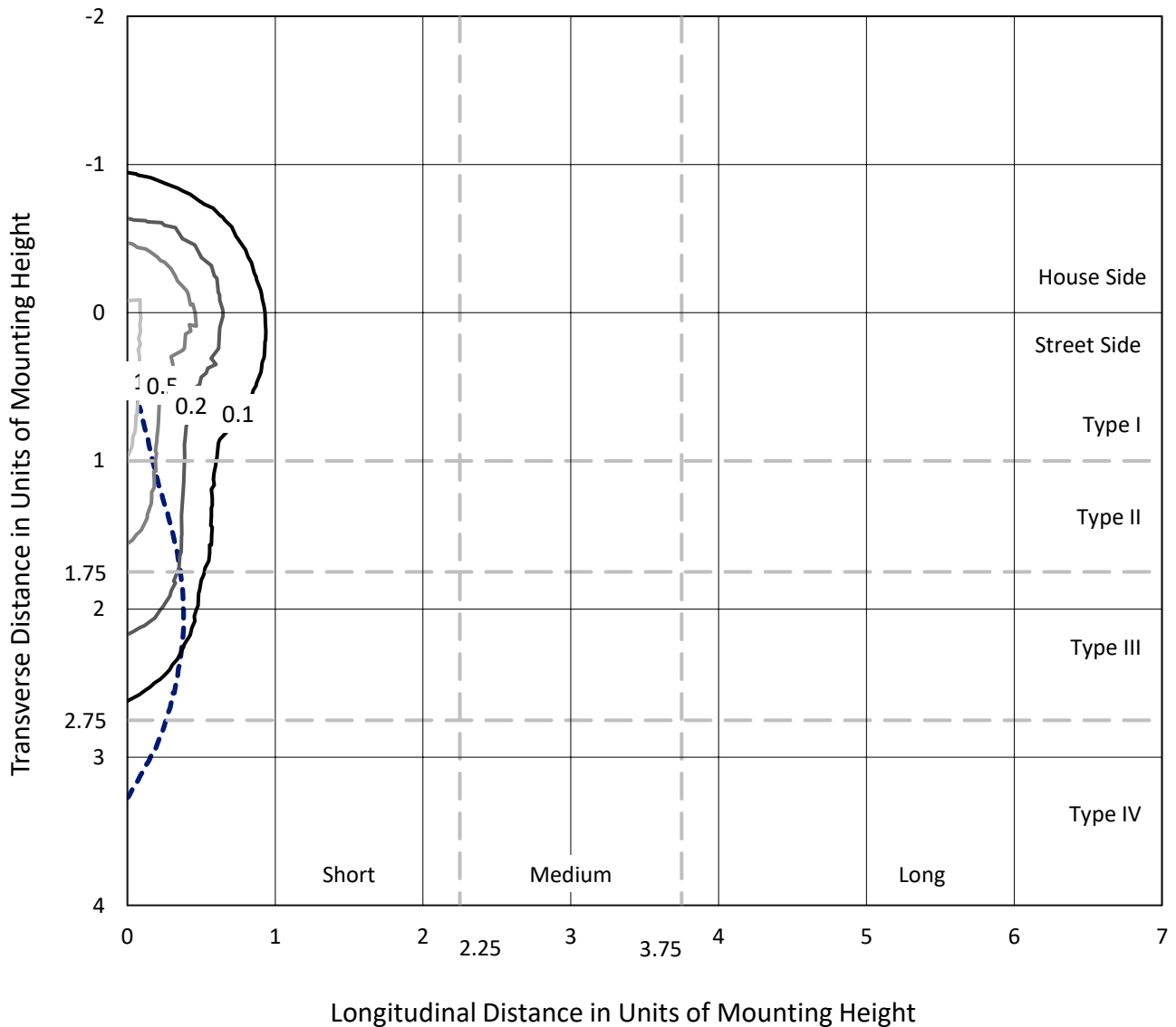
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

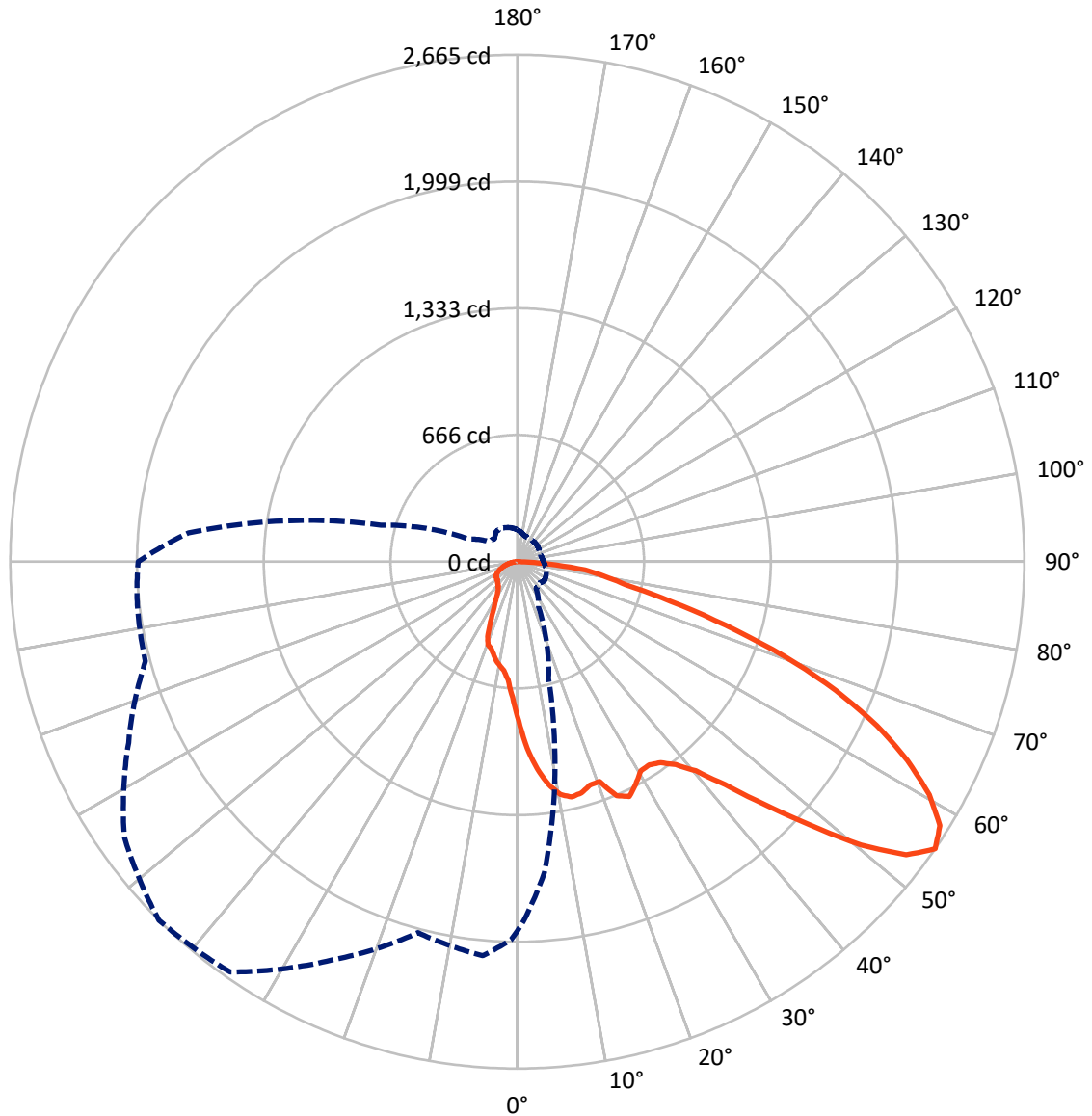
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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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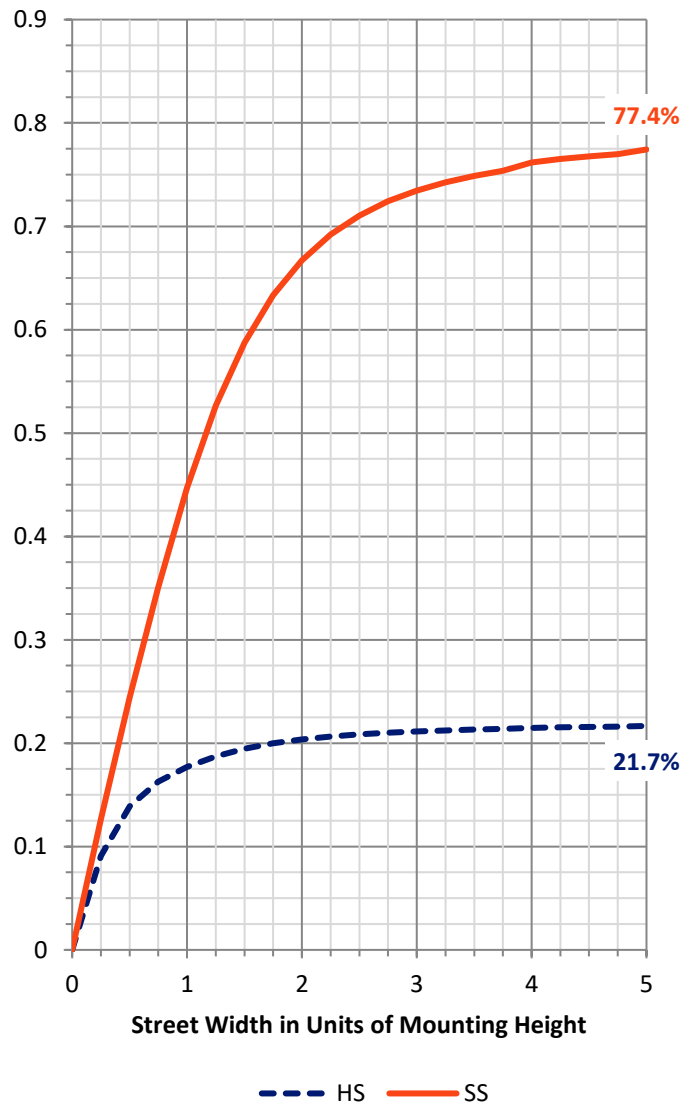
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	729.7	0.0	729.7
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	2606.3	0.0	2606.3
	% Fixture	78.1	0.0	78.1
Total	Lumens	3336.0	0.0	3336.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.0	2.1
10°-20°	188.2	5.6
20°-30°	325.2	9.7
30°-40°	377.9	11.3
40°-50°	527.3	15.8
50°-60°	715.5	21.4
60°-70°	680.7	20.4
70°-80°	367.7	11.0
80°-90°	82.4	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°	3336.0	100.0
0°-180°	3336.0	100.0



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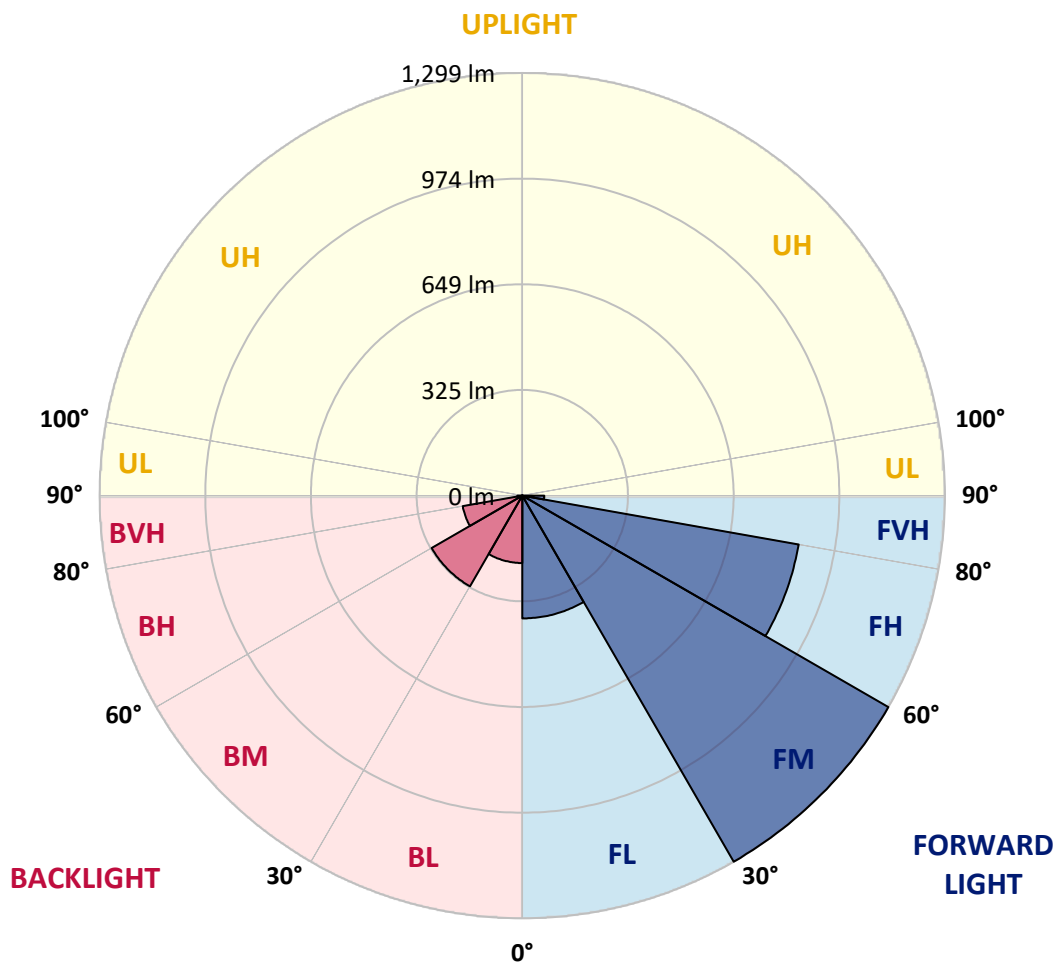
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	377.3	11.3			
FM (30°-60°)	1299.0	38.9			
FH (60°-80°)	862.6	25.9			G1/1800
FVH (80°-90°)	67.4	2.0			G1/100
BL (0°-30°)	207.1	6.2	B1/500		
BM (30°-60°)	321.8	9.6	B1/1000		
BH (60°-80°)	185.8	5.6	B1/500		G1/500
BVH (80°-90°)	15.1	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°	837.2	837.2	837.2	837.2	837.2	837.2	837.2	837.2	837.2	837.2	837.2
2.5°	930.1	926.6	916.7	890.7	864.5	837.9	817.4	791.9	765.2	750.9	732.7
5°	942.8	938.9	915.6	857.0	804.0	748.3	703.8	664.9	649.0	625.7	607.0
7.5°	912.9	911.2	876.2	792.1	719.5	646.6	596.2	565.0	536.6	526.0	528.2
10°	885.6	878.6	834.8	725.0	640.2	581.0	544.9	514.3	494.3	489.0	490.1
12.5°	863.0	853.5	801.8	679.8	605.7	558.4	512.4	480.4	462.2	467.2	484.4
15°	858.3	845.6	787.9	664.4	586.7	525.8	475.4	438.6	425.0	436.0	463.5
17.5°	888.3	872.2	811.7	669.5	568.7	492.6	430.7	388.7	377.2	394.8	430.7
20°	984.4	960.7	885.8	698.8	566.9	476.0	404.7	362.5	367.3	400.8	438.2
22.5°	1162.3	1126.6	1015.7	741.5	576.2	471.9	399.5	377.4	404.1	432.5	457.1
25°	1197.5	1169.5	1039.0	751.2	574.2	469.0	414.4	425.4	455.1	469.2	460.6
27.5°	1217.3	1185.4	1037.5	703.2	513.5	425.4	396.2	414.4	421.9	408.3	384.9
30°	1263.5	1230.3	1063.7	652.8	422.8	315.6	276.6	269.2	274.2	276.9	268.5
32.5°	1327.1	1294.3	1113.0	619.8	365.6	261.0	222.7	212.2	209.7	206.9	203.6
35°	1409.4	1359.0	1161.4	598.6	342.0	241.4	206.2	198.1	194.8	190.8	187.3
37.5°	1493.1	1440.2	1222.6	576.4	326.4	227.8	195.2	191.5	185.8	181.6	176.5
40°	1582.0	1522.8	1278.3	557.0	311.2	219.0	187.3	186.9	179.4	174.5	168.6
42.5°	1659.0	1598.0	1328.0	545.2	299.5	209.7	182.5	183.8	176.1	168.8	161.1
45°	1720.2	1660.3	1374.0	545.2	290.1	200.5	181.6	180.7	173.0	164.0	155.2
47.5°	1773.9	1712.0	1418.9	559.0	284.1	192.8	176.7	178.3	170.3	158.9	150.3
50°	1815.5	1760.9	1479.4	580.6	278.2	186.6	170.6	178.9	168.1	156.3	146.4
52.5°	1868.5	1819.7	1552.3	610.1	273.1	179.8	165.1	178.9	167.9	156.5	145.7
55°	1942.0	1890.5	1640.1	634.5	265.0	173.4	160.2	173.9	167.3	155.4	143.9
57.5°	1993.5	1955.0	1702.1	650.8	253.3	165.3	155.8	169.0	164.4	151.2	138.7
58°	1996.0	1958.3	1711.2	654.5	250.5	163.7	154.7	166.8	163.1	149.4	136.9
60°	1968.2	1935.9	1712.9	649.3	234.2	156.0	149.0	157.8	156.0	139.1	127.4
62.5°	1867.4	1832.9	1641.8	606.3	212.6	146.6	140.2	145.7	141.7	124.6	113.8
65°	1724.2	1660.5	1495.7	539.0	197.2	136.5	128.3	128.8	124.6	112.2	102.8
67.5°	1533.3	1462.2	1266.4	454.3	185.5	125.2	114.2	113.1	108.1	100.1	92.4
70°	1298.5	1249.9	1029.1	369.5	172.5	112.9	98.4	97.7	94.6	88.7	81.9
72.5°	1052.4	990.6	831.0	295.8	156.7	101.0	83.6	85.0	81.0	76.8	70.6
75°	776.7	736.2	642.4	237.3	135.4	88.0	69.8	70.2	68.4	64.0	59.2
77.5°	511.5	499.4	459.5	155.8	104.1	70.0	57.0	57.4	56.1	52.2	47.1
80°	344.2	336.1	311.4	100.4	69.5	50.6	44.0	44.5	44.2	40.1	33.2
82.5°	212.2	208.6	200.7	67.8	48.2	36.3	29.1	30.4	32.8	28.2	22.7
85°	100.1	100.4	121.3	37.0	28.4	23.3	15.8	16.9	16.9	16.9	12.8
87.5°	13.0	13.6	16.7	15.6	10.3	8.8	5.7	4.8	4.2	5.5	4.0
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°	837.2	837.2	837.2	837.2	837.2	837.2	837.2	837.2	837.2	837.2	837.2
2.5°	726.3	721.9	712.4	710.2	708.9	712.6	702.7	705.4	701.0	713.3	711.3
5°	608.1	608.5	616.2	621.3	623.1	621.3	614.7	603.3	594.5	590.9	591.8
7.5°	524.0	531.7	544.9	559.7	573.1	577.1	573.3	551.5	527.8	512.8	508.0
10°	496.1	506.4	521.6	533.3	545.2	554.6	556.6	539.6	511.5	476.0	462.2
12.5°	497.6	511.7	526.2	530.0	528.9	532.6	530.8	528.0	509.5	464.4	441.3
15°	483.1	499.8	509.9	508.0	504.4	501.1	496.5	489.3	482.6	451.0	425.4
17.5°	449.6	466.8	475.2	475.8	475.8	474.9	463.7	461.1	460.2	444.8	429.2
20°	455.8	465.3	461.5	455.4	457.1	463.1	456.5	455.1	460.2	467.0	464.2
22.5°	459.3	456.0	427.8	400.6	394.4	412.9	416.6	431.4	451.8	476.5	492.6
25°	437.5	410.9	360.5	329.7	312.3	329.5	351.9	379.2	409.8	441.5	460.2
27.5°	365.8	345.5	309.4	281.7	266.5	269.2	288.3	313.2	341.6	362.9	376.6
30°	275.5	266.5	247.8	238.4	229.1	226.9	235.1	244.5	257.1	259.7	263.2
32.5°	202.9	201.6	202.7	199.6	197.9	197.6	195.2	197.4	198.7	200.3	197.2
35°	183.6	181.8	178.7	177.8	176.7	177.2	176.1	175.0	175.8	177.2	178.0
37.5°	173.6	171.0	166.6	165.1	165.1	165.7	164.0	163.5	165.1	169.2	171.4
40°	165.9	162.9	157.8	155.8	157.1	158.9	156.5	155.6	159.3	163.7	167.3
42.5°	158.7	156.3	151.4	149.2	150.3	153.6	150.1	149.4	154.3	159.1	163.3
45°	152.5	150.1	145.7	144.6	145.0	148.1	145.7	145.7	150.3	155.6	159.3
47.5°	147.7	144.6	141.7	140.9	141.3	143.1	142.6	142.6	147.0	152.5	156.3
50°	142.8	140.2	136.5	136.9	138.0	140.4	140.2	140.9	145.3	152.1	156.0
52.5°	140.6	136.7	132.5	132.9	136.2	139.1	138.2	138.9	143.9	156.7	162.4
55°	138.2	132.9	128.1	128.8	132.5	136.7	135.6	136.5	142.4	159.8	167.7
57.5°	133.6	127.4	122.1	122.6	128.1	132.5	130.7	131.8	138.9	156.5	164.8
58°	131.6	126.3	121.3	121.5	126.8	131.6	129.6	130.5	137.8	155.6	163.5
60°	123.2	120.2	115.8	116.0	121.0	125.2	124.1	125.0	132.1	149.2	155.2
62.5°	111.8	110.0	108.9	108.9	112.0	116.0	117.1	118.2	124.6	134.9	140.2
65°	99.5	99.5	99.7	99.7	101.7	106.7	107.4	110.3	116.2	121.3	125.2
67.5°	91.1	90.7	91.1	90.0	90.9	94.0	97.3	99.9	106.1	109.6	110.9
70°	80.3	80.1	80.3	78.8	79.9	82.5	84.7	89.1	95.5	98.2	98.8
72.5°	69.8	69.8	70.2	69.1	69.1	72.0	73.5	78.4	84.3	85.8	86.1
75°	58.8	59.4	59.4	57.9	58.3	60.1	62.1	66.0	71.5	72.6	72.6
77.5°	46.7	49.1	49.1	47.5	48.2	48.4	51.1	53.0	57.2	57.7	55.9
80°	33.9	36.3	38.3	37.0	38.1	36.8	38.3	39.6	43.8	41.8	39.0
82.5°	24.2	26.0	27.5	27.7	26.6	24.2	26.2	26.4	28.4	25.8	24.2
85°	13.4	15.0	16.9	16.1	14.3	12.8	13.4	13.9	13.6	13.0	12.1
87.5°	3.5	3.7	4.2	3.1	2.9	2.4	3.3	3.3	3.7	4.0	3.7
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°	837.2	837.2	837.2	837.2	837.2	837.2	837.2	837.2	837.2	837.2	837.2
2.5°	712.9	722.5	743.4	759.3	778.7	802.2	829.9	857.9	888.0	897.5	910.7
5°	589.8	614.0	624.2	653.0	681.6	724.5	770.3	823.3	881.4	909.4	936.2
7.5°	504.0	517.0	527.5	548.7	583.0	635.2	692.6	758.9	841.2	881.9	921.3
10°	457.8	459.1	472.1	498.3	528.2	574.2	628.6	702.7	794.5	844.0	890.2
12.5°	427.2	421.5	435.5	462.8	496.7	539.2	589.2	659.8	760.8	811.7	867.6
15°	400.3	391.3	401.9	429.8	463.3	513.2	566.9	641.8	747.6	806.8	868.9
17.5°	401.0	376.1	379.9	403.4	436.6	487.5	552.6	641.1	767.7	835.9	909.4
20°	450.5	410.7	393.7	398.1	430.3	485.7	559.2	671.9	833.5	932.9	1011.5
22.5°	499.2	475.2	447.9	438.9	456.5	514.6	601.3	744.8	976.5	1126.4	1268.4
25°	482.2	502.7	495.9	483.1	487.0	535.2	629.9	804.6	1087.7	1256.5	1389.8
27.5°	385.8	423.0	430.5	430.3	431.8	471.4	566.5	764.4	1101.5	1281.3	1408.8
30°	271.1	274.4	278.4	286.1	293.2	328.6	443.3	671.0	1095.4	1292.6	1420.2
32.5°	195.7	200.1	205.6	216.1	232.9	278.0	387.8	641.3	1127.9	1339.0	1453.7
35°	178.9	184.0	189.3	201.4	217.2	259.0	365.8	629.0	1181.4	1414.3	1513.7
37.5°	173.6	179.4	184.0	192.8	205.6	245.4	345.8	620.6	1236.2	1493.9	1594.3
40°	169.9	176.5	180.3	187.3	196.1	232.9	327.9	614.0	1289.3	1566.8	1659.0
42.5°	166.6	173.4	178.3	183.3	190.6	221.6	312.1	607.4	1335.3	1637.4	1723.5
45°	162.6	171.2	177.4	181.4	187.7	212.2	300.0	602.2	1387.6	1700.2	1788.6
47.5°	159.3	168.8	176.5	181.1	183.6	205.6	290.3	609.4	1450.6	1765.7	1849.2
50°	159.6	168.6	178.3	185.5	179.1	200.1	284.4	638.2	1532.5	1843.7	1896.9
52.5°	166.6	177.6	185.3	187.1	173.0	193.5	281.3	688.6	1629.3	1912.5	1945.1
55°	174.5	186.0	194.3	193.2	169.7	185.1	280.6	742.3	1735.4	1992.9	2007.8
57.5°	171.7	188.4	201.2	195.4	169.9	176.9	277.7	785.7	1824.1	2053.0	2069.9
58°	170.8	187.5	202.0	195.0	169.2	174.5	277.1	789.4	1836.4	2057.1	2078.7
60°	162.2	179.8	201.4	191.7	165.5	167.9	269.8	801.6	1833.1	2035.6	2084.0
62.5°	146.6	161.1	186.2	175.6	154.1	159.1	253.5	786.6	1743.7	1931.7	2006.7
65°	129.0	139.8	156.5	154.5	137.8	150.1	231.3	727.4	1564.8	1763.1	1842.1
67.5°	115.8	124.6	135.1	132.3	123.9	138.0	207.3	627.2	1364.1	1560.6	1660.1
70°	102.3	109.2	114.4	112.5	109.8	126.1	186.0	509.1	1171.7	1368.3	1464.7
72.5°	88.7	95.1	99.5	96.6	95.1	113.6	168.6	395.1	925.5	1128.8	1252.7
75°	74.2	80.6	83.6	80.3	79.5	100.1	142.8	295.1	694.4	870.2	977.2
77.5°	57.4	64.3	68.2	67.1	67.6	82.3	115.3	202.0	496.5	593.1	705.8
80°	40.3	47.8	50.4	49.3	52.4	62.7	81.4	128.3	342.5	384.9	464.4
82.5°	24.9	31.9	32.4	33.5	35.7	46.4	61.4	78.1	215.0	222.3	279.9
85°	12.5	15.2	16.3	18.0	20.0	28.4	35.0	48.4	138.4	104.8	156.5
87.5°	4.2	4.4	5.3	6.6	8.1	11.7	15.0	19.8	34.3	18.9	48.4
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	837.2	837.2	837.2	837.2	837.2	837.2	837.2	837.2	837.2	837.2
2.5°	937.3	956.1	969.7	982.2	970.1	969.0	957.2	938.0	930.1	930.1
5°	992.6	1036.4	1071.8	1094.5	1084.8	1061.5	1023.0	973.9	947.5	942.8
7.5°	1007.8	1094.3	1160.1	1183.4	1167.1	1115.6	1041.9	959.1	921.3	912.9
10°	998.5	1111.0	1207.6	1244.6	1221.9	1144.0	1043.4	942.0	895.3	885.6
12.5°	988.8	1113.2	1216.4	1269.9	1255.1	1166.9	1054.7	930.7	876.8	863.0
15°	995.9	1114.1	1205.6	1260.9	1270.3	1194.4	1073.1	938.9	873.1	858.3
17.5°	1040.3	1130.8	1190.2	1234.9	1268.1	1231.8	1125.7	977.8	906.5	888.3
20°	1133.2	1170.9	1199.0	1233.6	1287.1	1308.2	1233.4	1084.8	1000.5	984.4
22.5°	1402.2	1395.3	1337.7	1337.0	1414.5	1499.2	1494.2	1302.2	1175.5	1162.3
25°	1503.0	1471.3	1387.9	1367.6	1401.7	1532.5	1513.5	1346.7	1229.6	1197.5
27.5°	1463.6	1385.0	1330.2	1325.6	1314.4	1437.8	1483.4	1364.8	1248.5	1217.3
30°	1461.1	1345.6	1267.3	1276.5	1287.3	1405.2	1500.1	1421.3	1297.0	1263.5
32.5°	1467.1	1351.1	1271.9	1273.6	1305.8	1410.1	1518.6	1482.9	1360.6	1327.1
35°	1491.1	1382.4	1301.4	1297.2	1347.4	1441.8	1550.1	1579.8	1447.5	1409.4
37.5°	1529.8	1444.6	1355.3	1354.2	1427.0	1499.0	1589.2	1677.5	1534.0	1493.1
40°	1586.8	1517.5	1451.2	1445.3	1535.3	1592.1	1640.1	1781.6	1634.6	1582.0
42.5°	1655.7	1604.9	1577.8	1601.3	1687.8	1696.6	1719.3	1877.8	1720.2	1659.0
45°	1719.5	1717.1	1754.7	1817.2	1867.6	1814.8	1802.1	1942.3	1786.7	1720.2
47.5°	1795.5	1861.0	1974.6	2066.2	2119.0	1952.4	1872.7	1984.3	1835.1	1773.9
50°	1872.5	2033.4	2214.7	2342.4	2353.6	2101.8	1921.3	2023.9	1879.1	1815.5
52.5°	1953.5	2170.9	2412.4	2560.7	2538.9	2231.9	1968.4	2050.8	1924.4	1868.5
55°	2023.9	2255.2	2522.8	2665.2	2633.3	2311.1	2019.3	2079.8	1989.1	1942.0
57.5°	2063.3	2262.3	2495.3	2619.7	2585.1	2295.7	2042.6	2101.4	2030.5	1993.5
58°	2069.0	2252.8	2470.9	2593.3	2558.1	2282.7	2042.4	2100.5	2033.2	1996.0
60°	2064.0	2191.4	2380.0	2488.9	2452.0	2201.3	2034.0	2084.0	1999.7	1968.2
62.5°	2017.1	2084.9	2223.1	2302.3	2291.8	2074.1	1999.7	2021.7	1897.8	1867.4
65°	1955.5	1939.6	2022.1	2078.3	2086.2	1978.8	1965.6	1887.0	1767.1	1724.2
67.5°	1880.6	1775.0	1774.8	1806.7	1819.9	1832.2	1894.5	1740.7	1578.7	1533.3
70°	1753.6	1521.2	1451.2	1488.9	1477.9	1582.0	1767.5	1535.1	1351.5	1298.5
72.5°	1520.8	1207.2	1095.1	1143.6	1115.8	1240.6	1546.5	1263.3	1117.6	1052.4
75°	1232.7	903.0	787.5	831.9	814.8	941.1	1286.8	917.5	801.6	776.7
77.5°	957.2	654.3	587.2	581.0	593.8	700.3	943.9	619.5	528.4	511.5
80°	614.9	468.3	472.3	464.4	471.0	441.5	573.1	395.3	357.9	344.2
82.5°	404.7	326.4	389.1	359.2	341.1	296.9	375.9	258.8	219.6	212.2
85°	275.8	240.3	218.8	167.3	197.0	228.7	281.9	139.3	110.5	100.1
87.5°	124.6	83.6	61.4	37.9	59.9	69.1	136.9	16.3	12.5	13.0
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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