

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: P526209

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526209
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-SA1A-827-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS 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: 1880 lumens
Efficiency: N/A
Efficacy: 57.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G0

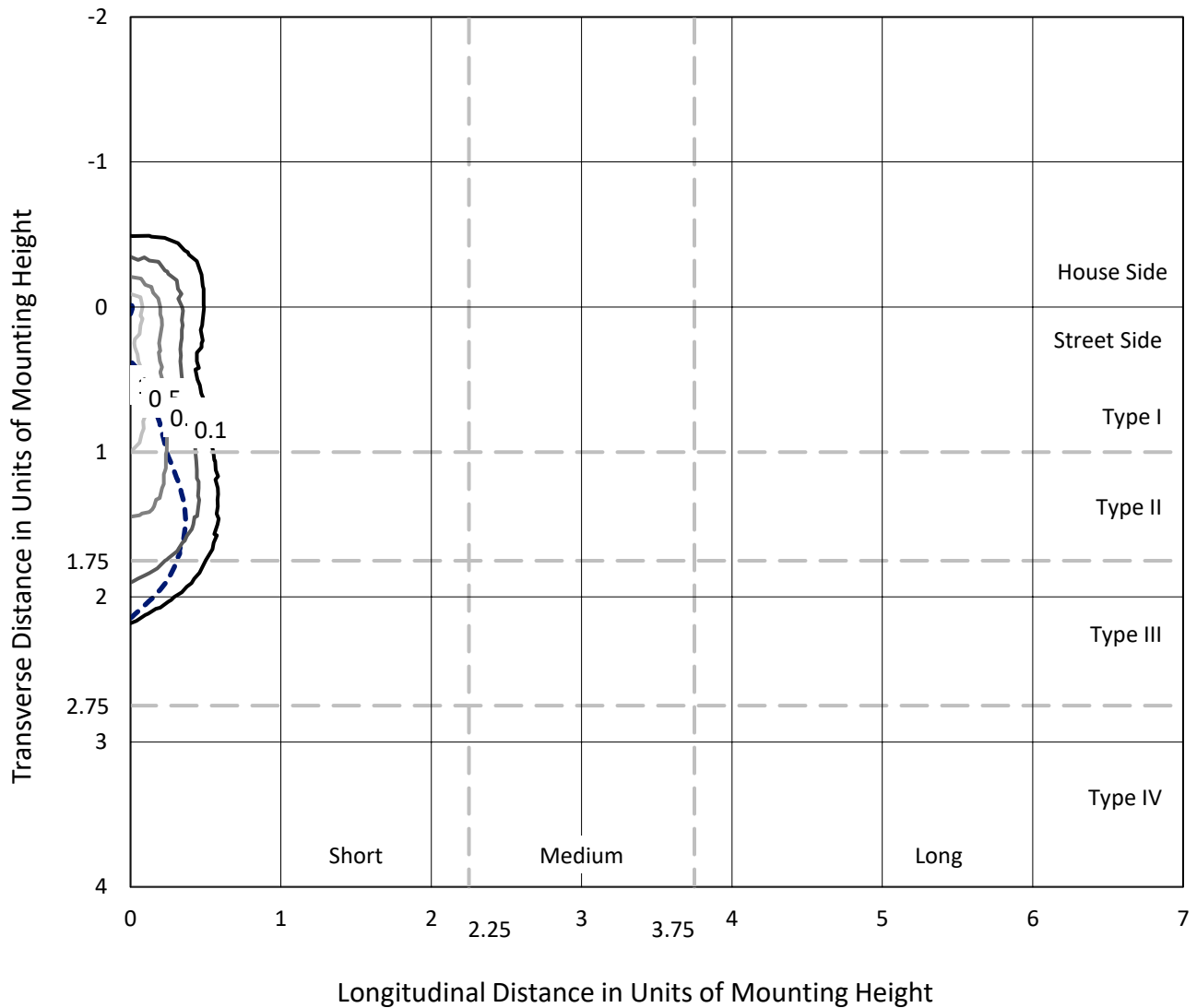
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

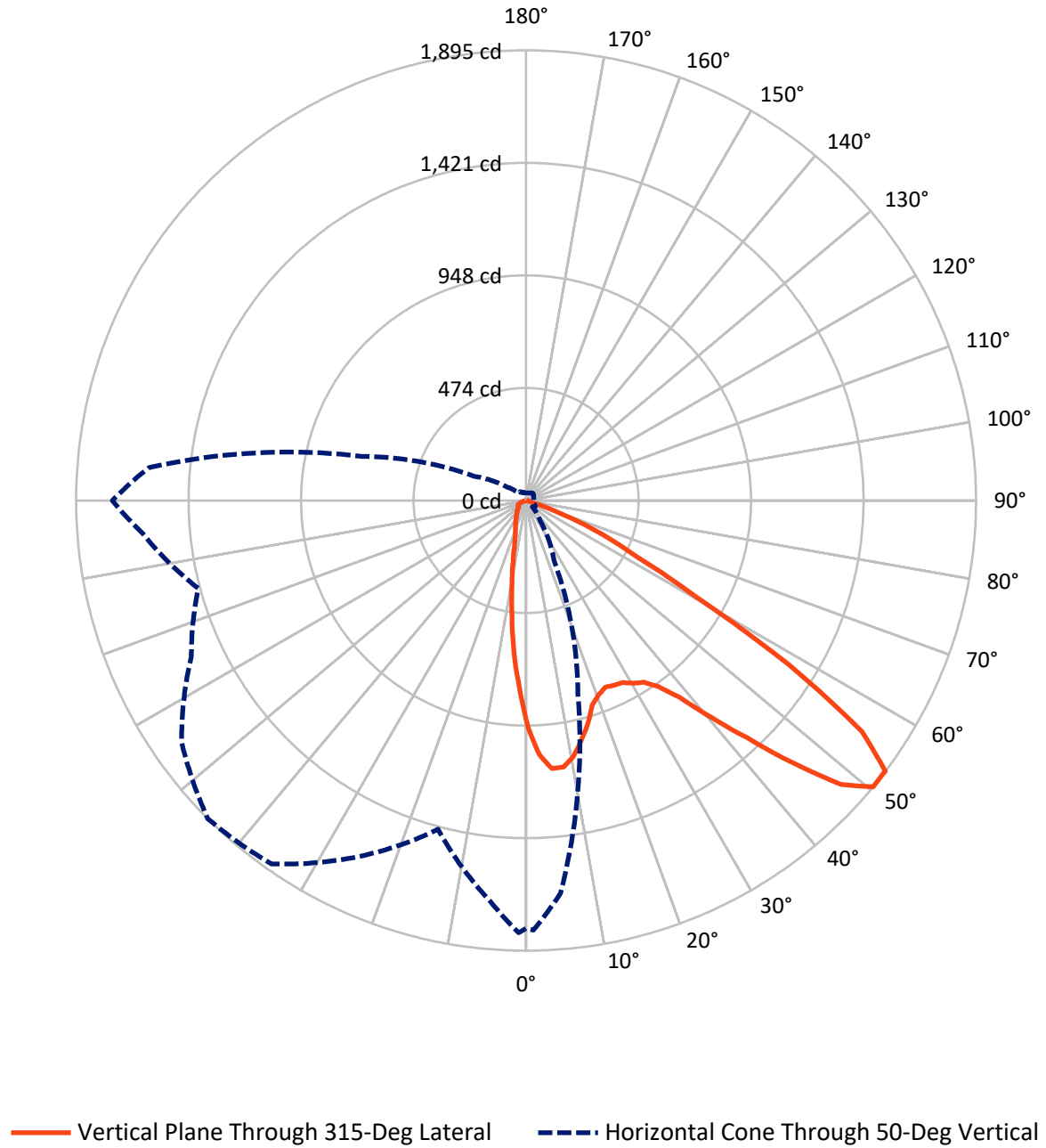
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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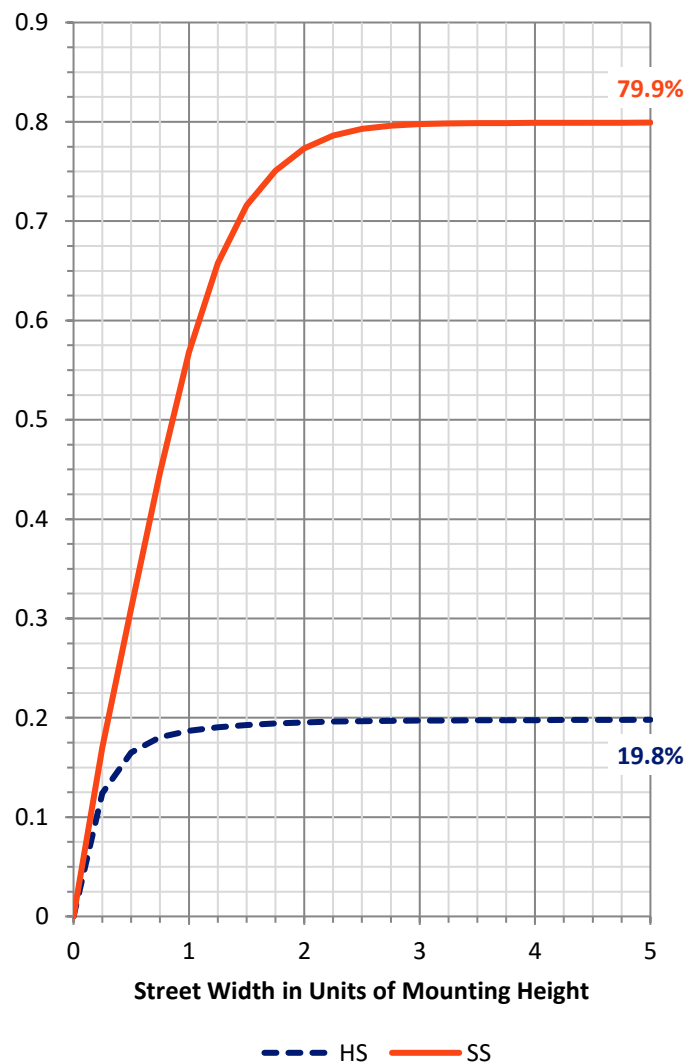
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	376.6	0.0	376.6
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	1503.4	0.0	1503.4
	% Fixture	80.0	0.0	80.0
Total	Lumens	1880.0	0.0	1880.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.5	3.7
10°-20°	138.1	7.3
20°-30°	207.5	11.0
30°-40°	311.4	16.6
40°-50°	437.7	23.3
50°-60°	472.1	25.1
60°-70°	219.2	11.7
70°-80°	20.6	1.1
80°-90°	3.8	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°	1880.0	100.0
0°-180°	1880.0	100.0



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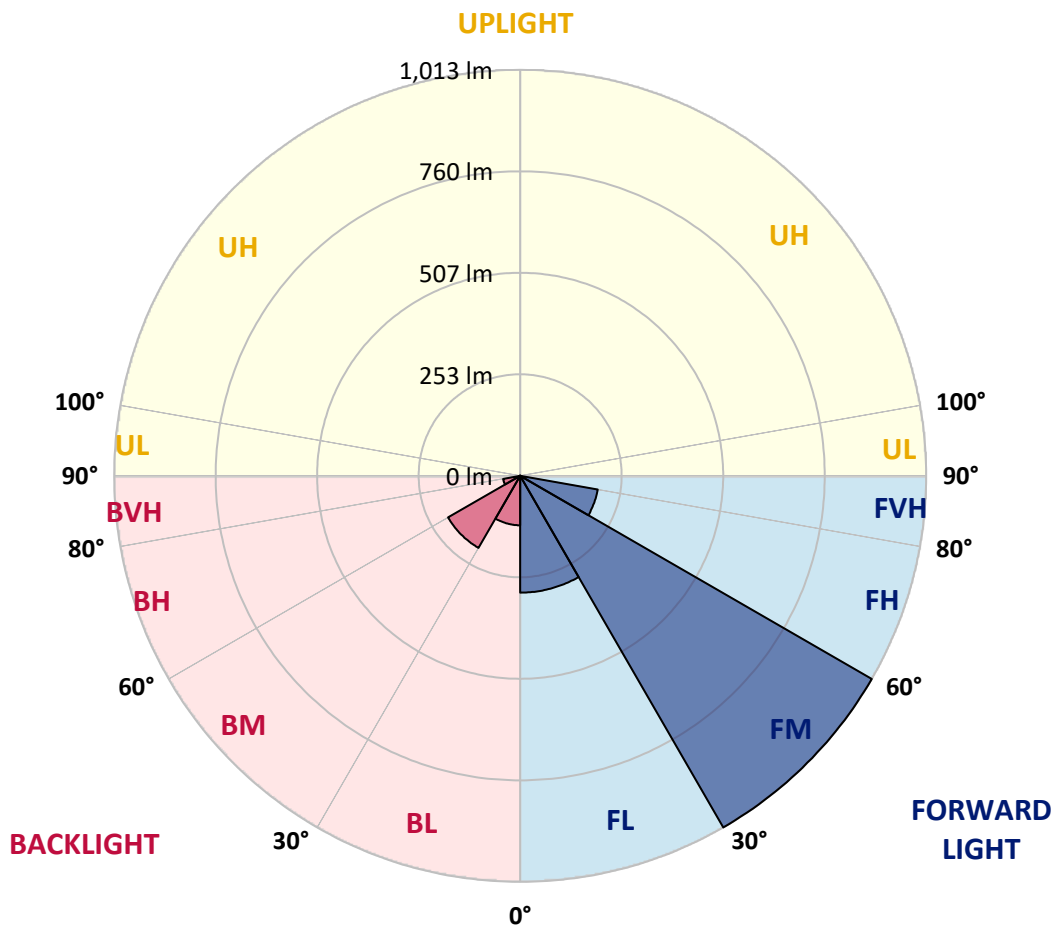
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	291.7	15.5			
FM (30°-60°)	1013.5	53.9			
FH (60°-80°)	196.6	10.5			G0/660
FVH (80°-90°)	1.7	0.1			G0/10
BL (0°-30°)	123.4	6.6	B1/500		
BM (30°-60°)	207.8	11.1	B0/220		
BH (60°-80°)	43.2	2.3	B0/110		G0/110
BVH (80°-90°)	2.1	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-G0

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	953.4	953.4	953.4	953.4	953.4	953.4	953.4	953.4	953.4	953.4	953.4
2.5°	991.1	975.8	956.4	940.3	916.5	868.4	855.3	839.6	826.6	809.0	784.4
5°	901.2	896.3	887.4	826.9	783.3	725.1	677.4	657.2	630.7	609.1	593.4
7.5°	832.5	813.1	784.8	724.0	654.2	592.0	539.0	508.0	473.0	461.0	439.8
10°	759.1	763.5	721.8	636.3	552.0	501.7	468.9	439.0	407.3	386.4	356.2
12.5°	735.6	721.0	688.9	583.4	511.4	464.4	424.5	387.6	354.0	320.4	291.3
15°	750.9	728.5	683.7	572.2	480.1	421.5	371.5	321.5	290.6	247.7	217.5
17.5°	805.7	787.8	727.7	584.1	464.0	380.5	306.2	254.8	207.4	168.6	153.3
20°	897.1	871.7	796.4	599.4	440.1	330.9	248.4	185.0	140.2	123.8	115.3
22.5°	986.6	972.8	877.7	628.9	418.9	286.8	186.5	124.6	104.8	101.8	96.2
25°	1157.1	1115.7	1001.9	682.2	402.5	245.4	140.6	100.3	88.8	86.5	87.3
27.5°	1258.5	1223.8	1116.8	717.7	384.2	213.7	119.0	92.1	84.3	79.4	77.6
30°	1355.9	1315.6	1173.8	738.5	345.0	180.2	105.6	88.4	86.5	79.4	77.2
32.5°	1430.8	1391.3	1256.3	769.9	329.0	158.5	86.9	69.0	64.2	63.4	70.1
35°	1545.7	1503.6	1326.8	787.0	316.7	147.3	75.3	61.5	56.0	53.7	54.1
37.5°	1652.8	1624.1	1392.0	793.8	303.6	144.0	67.5	55.2	50.4	48.9	48.5
40°	1742.3	1678.1	1454.0	800.8	298.0	137.6	62.7	50.4	47.0	44.8	44.8
42.5°	1783.3	1718.1	1523.3	796.7	296.5	127.6	62.7	46.3	43.6	41.4	41.0
45°	1774.4	1747.9	1554.3	794.9	296.5	117.5	57.1	45.1	41.4	38.4	37.7
47.5°	1797.5	1762.8	1593.1	802.7	290.6	110.4	48.1	47.4	39.2	35.4	34.7
50°	1801.6	1808.3	1660.6	843.4	277.5	101.5	37.7	46.6	37.7	32.1	31.3
52°	1828.5	1786.7	1681.1	865.0	263.7	94.7	31.7	39.9	36.2	29.8	29.1
52.5°	1791.5	1818.8	1686.0	872.8	265.2	90.3	30.6	39.2	35.4	29.8	28.0
55°	1750.1	1776.2	1666.2	889.6	243.2	70.9	23.9	28.3	32.1	26.1	25.0
57.5°	1521.1	1547.6	1448.0	814.6	198.1	50.0	19.8	21.3	28.3	24.2	23.1
60°	1352.1	1333.1	1215.2	679.6	140.6	28.0	15.7	16.4	31.0	22.4	22.0
62.5°	1235.8	1195.1	1015.7	524.8	85.8	18.7	12.3	12.7	23.9	20.9	20.9
65°	914.2	868.7	674.8	317.4	42.1	13.1	9.3	10.1	14.9	17.9	17.9
67.5°	521.8	504.3	326.0	143.2	17.5	8.2	7.1	7.8	11.6	14.5	13.8
70°	239.8	215.2	125.3	30.2	8.2	5.6	5.6	6.3	9.3	10.8	10.1
72.5°	70.1	66.4	30.6	4.8	3.4	3.4	3.7	4.8	7.1	8.2	7.5
75°	5.2	3.4	2.2	1.5	1.5	2.2	3.0	4.8	7.1	7.8	6.3
77.5°	0.4	0.7	0.4	0.4	1.1	2.2	3.4	6.0	9.3	9.7	7.1
80°	0.4	0.4	0.0	0.4	1.1	2.2	3.7	6.7	10.4	11.2	6.0
82.5°	0.0	0.0	0.0	0.4	1.5	3.0	4.5	7.1	9.7	11.9	6.3
85°	0.0	0.0	0.0	0.4	2.2	4.1	5.2	1.9	1.1	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°	953.4	953.4	953.4	953.4	953.4	953.4	953.4	953.4	953.4	953.4	953.4
2.5°	802.0	792.3	788.5	791.9	790.8	789.6	810.2	805.7	804.9	811.7	810.2
5°	602.0	584.9	631.9	612.8	632.6	644.6	646.8	647.9	661.7	647.2	666.2
7.5°	429.0	433.4	433.1	445.7	468.5	488.6	500.6	491.2	490.5	488.6	480.4
10°	342.8	335.0	333.5	330.5	337.6	354.7	369.3	357.7	349.5	360.7	357.3
12.5°	280.1	269.3	263.3	251.4	251.8	263.3	263.3	263.3	271.5	277.9	282.7
15°	214.9	205.9	205.9	194.0	191.4	191.7	197.7	198.4	211.5	215.2	217.1
17.5°	150.3	145.5	151.1	155.9	152.9	153.7	155.9	156.7	158.5	157.0	160.8
20°	115.6	114.9	116.4	125.0	131.3	135.0	132.4	128.7	126.4	121.2	121.2
22.5°	98.1	99.6	102.2	109.3	117.5	119.7	116.8	108.2	101.5	100.7	101.1
25°	87.3	88.8	92.9	97.4	101.8	105.6	102.6	96.2	92.5	89.1	89.1
27.5°	80.6	81.3	83.6	86.9	90.6	93.6	92.5	89.1	85.0	83.6	80.2
30°	75.3	76.5	79.1	79.8	83.2	84.7	82.8	82.1	79.4	77.6	76.5
32.5°	72.7	72.4	74.2	75.0	75.3	76.5	74.2	75.3	75.0	72.0	70.9
35°	54.8	57.8	62.7	66.8	67.9	69.4	69.0	67.5	63.4	60.1	56.0
37.5°	49.2	51.1	53.7	57.1	61.5	63.4	62.7	58.9	54.1	51.8	51.1
40°	45.5	46.6	48.9	51.1	55.6	58.9	56.3	53.0	49.2	47.4	46.3
42.5°	42.1	42.5	43.6	45.9	49.2	54.5	50.0	45.5	44.0	42.9	42.1
45°	38.4	38.4	39.9	41.0	44.8	49.6	45.1	41.0	40.3	39.5	39.2
47.5°	35.4	35.8	36.6	38.0	41.0	44.4	41.4	38.0	36.2	35.8	35.1
50°	31.7	32.1	33.6	35.1	38.8	40.7	38.8	35.1	33.2	32.1	32.1
52°	28.7	29.8	31.3	34.3	36.9	39.9	37.7	33.6	31.3	30.2	29.5
52.5°	28.3	29.1	30.6	33.9	36.9	39.5	37.3	33.2	30.6	29.8	29.1
55°	25.4	26.5	29.1	33.2	36.6	39.5	36.6	32.8	29.1	27.2	26.5
57.5°	24.2	25.0	28.3	33.6	36.2	39.5	36.6	32.8	29.1	25.7	25.0
60°	23.1	24.6	28.3	32.5	35.8	39.9	36.9	32.5	28.3	24.2	24.2
62.5°	22.0	23.1	28.0	31.7	34.3	38.4	35.4	31.7	27.2	23.1	22.8
65°	19.0	20.9	24.6	26.5	29.5	33.2	30.2	27.6	23.9	20.5	20.1
67.5°	14.5	15.3	18.3	20.5	22.4	25.7	24.2	20.9	18.3	15.7	15.7
70°	10.1	10.8	13.1	14.2	16.0	17.9	16.8	14.2	12.3	10.8	10.4
72.5°	7.1	7.5	8.2	9.0	9.7	10.4	10.1	8.2	7.1	6.7	6.3
75°	5.6	6.3	6.7	6.3	6.0	5.6	5.6	4.8	4.1	3.7	3.7
77.5°	5.6	6.0	5.6	4.8	4.1	3.7	3.4	3.0	2.2	1.9	2.2
80°	4.8	4.8	4.8	4.1	3.7	3.4	3.0	2.6	2.2	1.9	1.9
82.5°	5.2	5.2	4.8	4.1	4.1	3.4	3.4	3.0	2.6	1.9	1.9
85°	0.0	0.0	0.0	0.7	1.9	3.4	3.4	3.0	2.6	2.2	2.2
87.5°	0.0	0.0	0.0	0.0	0.4	0.7	1.5	1.9	2.2	2.2	2.2
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°	953.4	953.4	953.4	953.4	953.4	953.4	953.4	953.4	953.4	953.4	953.4
2.5°	823.6	837.8	864.6	891.5	907.9	927.3	962.3	981.0	1005.2	1017.2	1040.7
5°	663.6	697.1	709.1	739.7	772.5	805.3	857.5	915.0	962.7	995.5	1038.1
7.5°	484.2	492.0	538.2	558.8	612.5	672.2	743.4	815.8	876.2	929.9	962.3
10°	362.9	391.7	420.7	459.9	503.2	564.7	633.0	712.8	791.1	844.9	885.9
12.5°	291.7	314.4	353.2	395.4	448.7	489.4	558.0	637.1	738.5	791.1	845.2
15°	220.8	249.9	293.9	337.6	393.9	436.8	506.2	605.8	736.3	808.7	855.3
17.5°	163.7	183.5	223.1	271.9	329.4	389.8	483.4	602.4	761.3	847.5	895.6
20°	125.3	132.0	157.0	200.7	263.0	342.0	446.5	616.9	835.2	941.8	990.7
22.5°	101.5	104.4	114.1	144.4	204.8	300.3	429.0	627.0	918.3	1054.9	1120.1
25°	88.4	87.7	94.0	107.1	160.0	261.1	406.6	665.1	1020.2	1187.6	1246.2
27.5°	80.6	80.6	83.6	92.9	132.8	235.7	392.4	692.3	1122.7	1304.4	1336.1
30°	76.5	77.2	85.8	88.8	110.4	205.5	368.9	719.9	1220.8	1379.0	1422.6
32.5°	70.9	67.9	66.0	73.5	92.9	178.3	345.4	731.5	1300.3	1470.4	1507.7
35°	54.5	53.0	55.2	60.8	79.8	155.2	319.3	744.5	1391.7	1576.3	1583.8
37.5°	49.2	48.9	50.4	55.2	67.1	135.0	300.6	741.2	1461.4	1664.0	1643.8
40°	45.5	45.5	46.6	50.7	60.1	120.9	281.2	738.2	1528.9	1762.4	1703.5
42.5°	42.5	42.5	44.4	47.0	57.1	111.5	266.7	734.1	1585.6	1822.9	1738.6
45°	38.4	39.5	42.5	45.1	57.8	105.2	255.9	718.4	1605.0	1822.1	1721.8
47.5°	35.4	36.9	39.9	43.6	52.2	103.3	248.4	704.6	1598.3	1777.4	1669.2
50°	32.1	33.9	38.0	44.4	44.4	99.6	240.6	716.9	1593.5	1742.7	1618.8
52°	29.8	31.3	36.6	43.3	38.8	91.8	235.7	740.8	1613.2	1738.2	1596.5
52.5°	29.5	30.6	35.4	42.5	36.9	90.3	232.4	746.4	1619.6	1727.0	1611.7
55°	26.1	27.6	32.5	33.2	30.2	74.2	221.6	759.1	1588.2	1705.0	1597.2
57.5°	24.6	25.4	28.7	27.2	26.1	56.0	190.6	739.3	1410.7	1514.4	1486.0
60°	22.8	23.5	26.9	21.3	22.0	39.2	143.2	641.9	1132.8	1261.9	1313.0
62.5°	22.0	21.6	25.4	17.2	18.7	28.3	101.1	521.8	872.8	1038.8	1127.2
65°	19.4	19.0	18.3	14.5	16.0	22.0	60.4	340.6	615.1	785.9	834.4
67.5°	14.9	15.7	13.4	11.6	13.4	17.2	33.6	152.6	322.6	471.5	510.6
70°	10.4	11.2	10.8	10.1	11.9	14.2	19.4	52.2	133.5	247.7	273.0
72.5°	6.3	7.8	8.2	8.6	10.4	12.3	13.8	16.8	35.4	87.7	108.9
75°	3.7	5.2	6.3	7.5	8.6	10.4	11.6	11.9	12.3	16.4	26.5
77.5°	2.6	3.7	5.6	7.1	8.6	10.4	12.3	13.1	12.3	11.6	12.3
80°	2.2	3.7	5.2	6.7	9.0	10.8	12.3	12.3	11.9	10.4	11.2
82.5°	2.2	3.7	5.6	7.1	8.6	10.4	11.9	12.3	11.2	10.4	10.8
85°	2.6	4.1	6.0	7.5	9.3	8.6	7.8	6.3	6.0	4.8	5.2
87.5°	2.6	3.7	3.7	4.1	4.5	4.5	4.5	4.1	3.4	3.0	3.0
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°	953.4	953.4	953.4	953.4	953.4	953.4	953.4	953.4	953.4	953.4
2.5°	1041.8	1071.6	1070.5	1071.3	1066.8	1036.6	1022.0	985.1	995.5	991.1
5°	1081.7	1111.2	1136.5	1133.6	1099.2	1058.2	997.4	940.0	924.3	901.2
7.5°	1041.8	1112.7	1136.2	1132.8	1082.1	1029.5	932.5	875.1	847.8	832.5
10°	978.4	1060.4	1089.5	1095.5	1061.2	981.4	892.2	800.1	785.5	759.1
12.5°	942.2	1001.9	1019.8	1035.8	1023.9	964.2	861.6	773.2	753.1	735.6
15°	912.7	948.2	955.6	973.9	981.0	948.9	877.7	802.3	752.7	750.9
17.5°	940.0	925.4	898.2	903.8	926.2	949.3	919.1	859.8	811.7	805.7
20°	985.1	920.9	859.4	873.2	891.9	962.7	981.7	940.0	912.4	897.1
22.5°	1036.9	928.8	847.1	853.8	889.2	992.9	1083.2	1060.1	1008.6	986.6
25°	1132.8	950.4	856.8	861.3	909.8	1035.1	1175.0	1192.1	1161.5	1157.1
27.5°	1226.4	1006.4	878.1	868.0	920.2	1076.1	1230.5	1322.7	1269.0	1258.5
30°	1274.2	1051.9	909.8	892.6	963.5	1101.1	1264.1	1407.7	1360.7	1355.9
32.5°	1347.3	1093.3	934.4	912.4	987.7	1132.1	1326.8	1500.6	1455.1	1430.8
35°	1377.9	1138.4	988.5	962.7	1057.1	1175.3	1358.9	1583.4	1569.2	1545.7
37.5°	1436.8	1186.9	1052.2	1050.8	1141.0	1231.7	1416.7	1696.0	1693.4	1652.8
40°	1441.7	1239.9	1153.0	1200.0	1270.8	1329.8	1467.4	1727.4	1769.9	1742.3
42.5°	1449.1	1332.7	1327.1	1365.9	1426.7	1414.1	1469.3	1734.8	1799.7	1783.3
45°	1452.5	1425.6	1504.3	1575.9	1601.3	1524.5	1451.7	1720.7	1815.4	1774.4
47.5°	1425.6	1505.4	1647.6	1785.9	1793.4	1592.4	1444.3	1706.1	1824.7	1797.5
50°	1429.3	1555.4	1771.4	1895.2	1868.0	1652.4	1432.7	1697.2	1819.9	1801.6
52°	1420.4	1556.5	1788.9	1893.0	1874.0	1619.2	1412.9	1662.8	1815.4	1828.5
52.5°	1430.5	1549.8	1770.6	1894.5	1869.9	1635.6	1410.3	1681.9	1818.0	1791.5
55°	1395.8	1470.0	1663.6	1716.2	1712.5	1484.6	1330.1	1618.8	1749.8	1750.1
57.5°	1261.5	1274.2	1304.8	1303.6	1286.5	1167.1	1137.7	1488.7	1559.9	1521.1
60°	1111.6	932.9	850.4	816.9	797.9	778.5	1006.4	1361.8	1368.5	1352.1
62.5°	960.5	646.8	537.1	527.8	532.3	603.1	972.8	1311.5	1271.2	1235.8
65°	775.1	471.5	390.2	377.9	421.5	498.0	787.4	1005.6	943.7	914.2
67.5°	486.8	343.9	263.7	240.6	293.2	342.8	517.4	631.9	562.5	521.8
70°	288.7	192.1	119.4	107.1	120.5	182.8	289.8	315.2	260.7	239.8
72.5°	113.8	70.5	33.2	28.3	29.5	64.2	106.7	104.1	78.7	70.1
75°	30.6	21.3	11.6	9.3	7.8	11.9	17.2	11.2	4.1	5.2
77.5°	14.2	12.7	10.1	7.8	6.0	4.5	2.2	0.7	0.7	0.4
80°	12.3	10.8	9.3	7.8	6.0	3.7	1.9	0.4	0.4	0.4
82.5°	11.6	10.1	8.6	7.1	5.6	3.7	1.9	0.4	0.0	0.0
85°	4.8	6.3	7.1	6.7	6.0	3.7	1.9	0.4	0.0	0.0
87.5°	2.6	2.2	1.9	1.5	1.1	0.7	0.7	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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