

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: P588452

Luminaire Tested: **GAT-CA6-LED-50-730-U-33-5-X-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588452
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2107-308-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GAT-CA6-LED-50-730-U-33-5-X-X
Description: GENERATIONS SERIES AVENUE WITH NO CAGE AND TYPE III REFRACTOR
Light Source: (6) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7536 lumens
Efficiency: N/A
Efficacy: 139.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - U4 - G5

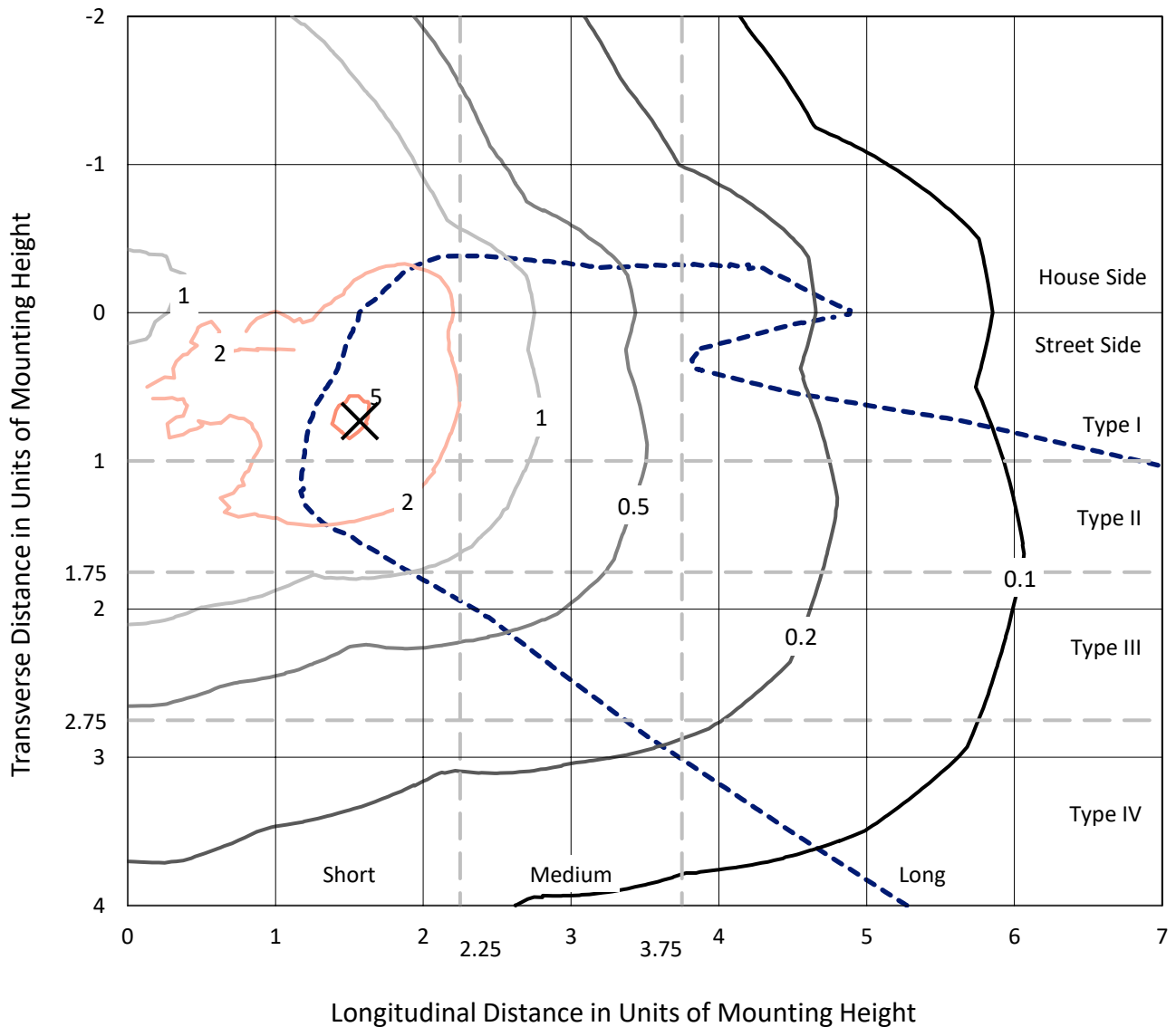
Input Watts (W): 54
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

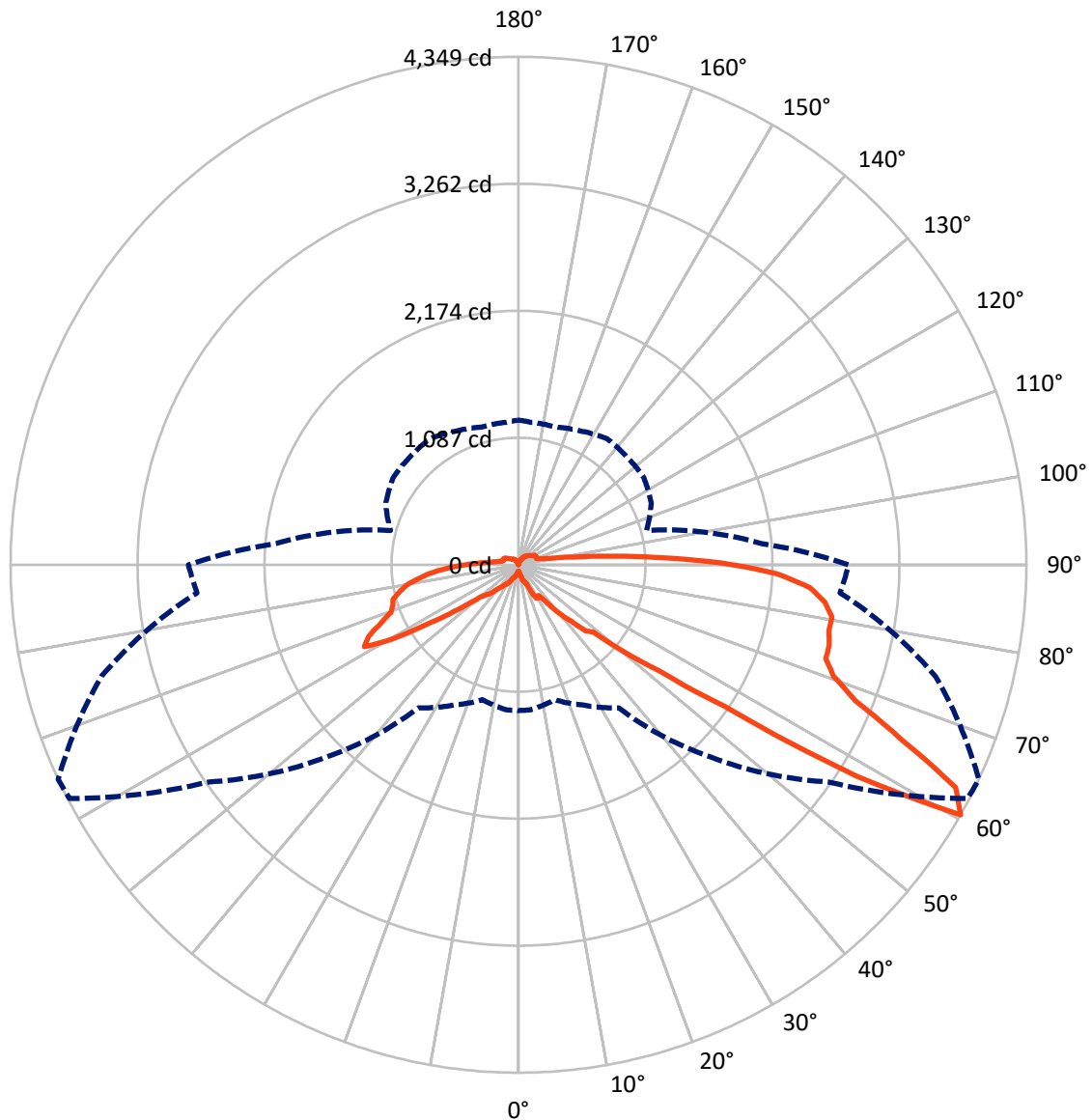
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.4 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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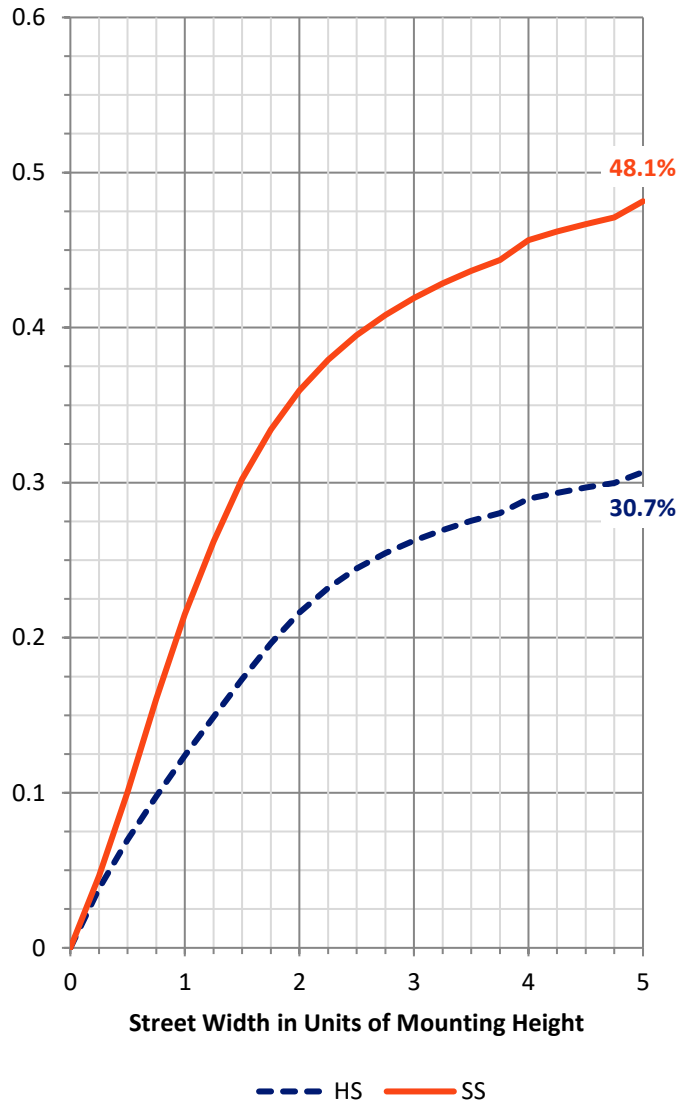
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2513.1	402.5	2915.5
	% Fixture	33.3	5.3	38.7
Street Side	Lumens	4020.6	599.9	4620.5
	% Fixture	53.4	8.0	61.3
Total	Lumens	6533.7	1002.3	7536.0
	% Fixture	86.7	13.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.2	0.1
10°-20°	32.2	0.4
20°-30°	92.0	1.2
30°-40°	198.2	2.6
40°-50°	375.1	5.0
50°-60°	1047.8	13.9
60°-70°	1868.0	24.8
70°-80°	1635.4	21.7
80°-90°	1277.8	17.0
90°-100°	483.1	6.4
100°-110°	166.2	2.2
110°-120°	135.9	1.8
120°-130°	91.3	1.2
130°-140°	62.7	0.8
140°-150°	39.4	0.5
150°-160°	18.3	0.2
160°-170°	5.2	0.1
170°-180°	0.5	0.0
0°-90°	6533.7	86.7
0°-180°	7536.0	100.0

Coefficient of Utilization



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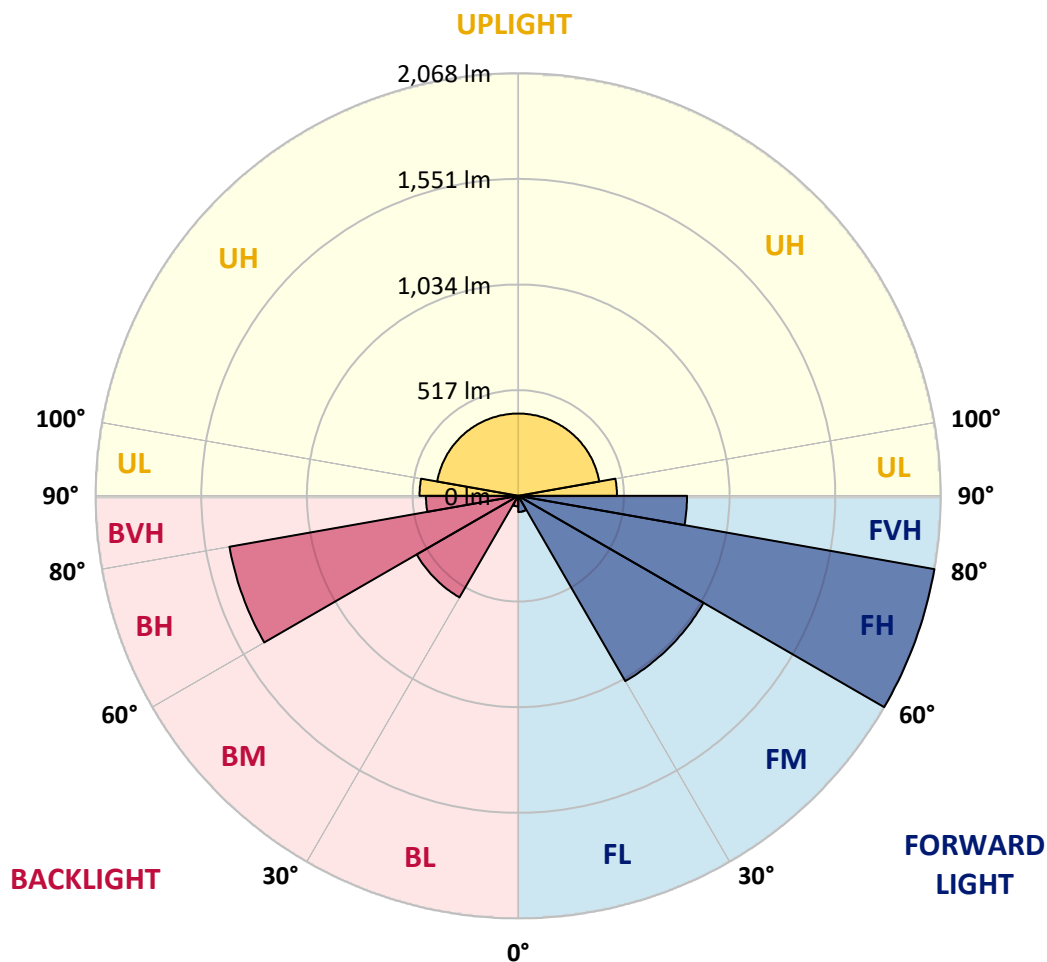
CATALOG NUMBER: GAT-CA6-LED-50-730-U-33-5-X-X

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	79.4	1.1			
FM (30°-60°)	1047.1	13.9			
FH (60°-80°)	2068.2	27.4			G2/5000
FVH (80°-90°)	825.9	11.0			G5
BL (0°-30°)	52.1	0.7	B0/110		
BM (30°-60°)	574.0	7.6	B1/1000		
BH (60°-80°)	1435.2	19.0	B3/2500		G3/2500
BVH (80°-90°)	451.9	6.0			G3/500
UL (90°-100°)	483.1	6.4		U3/500	
UH (100°-180°)	402.5	5.3		U3/500	

BUG Rating: B3-U4-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
2.5°	66.4	64.5	62.5	62.5	61.6	60.6	60.6	58.6	59.6	58.6	58.6
5°	78.2	77.2	75.2	76.2	74.3	73.3	73.3	72.3	71.3	70.3	67.4
7.5°	90.9	90.9	91.8	92.8	89.9	87.0	86.0	84.0	84.0	83.0	81.1
10°	104.5	103.6	99.7	99.7	97.7	95.7	96.7	95.7	95.7	95.7	91.8
12.5°	108.5	107.5	104.5	104.5	104.5	103.6	107.5	106.5	107.5	106.5	100.6
15°	122.1	121.2	120.2	121.2	125.1	132.9	142.6	138.7	139.7	137.8	116.3
17.5°	128.0	130.9	132.9	133.9	137.8	137.8	139.7	138.7	142.6	145.6	132.9
20°	148.5	146.6	148.5	155.3	165.1	166.1	163.2	163.2	165.1	166.1	141.7
22.5°	157.3	156.3	164.1	158.3	158.3	163.2	180.8	174.9	174.9	172.9	152.4
25°	204.2	208.1	215.9	225.7	249.1	256.0	275.5	254.0	257.0	226.7	193.5
27.5°	245.2	248.2	294.1	335.1	353.7	343.9	360.5	320.5	324.4	328.3	282.4
30°	257.9	263.8	330.2	360.5	385.0	365.4	386.9	334.1	331.2	353.7	335.1
32.5°	248.2	254.0	324.4	337.1	362.5	434.8	407.4	322.4	313.6	324.4	346.8
35°	272.6	276.5	318.5	288.2	311.7	607.7	533.5	376.2	358.6	299.0	332.2
37.5°	327.3	327.3	377.1	398.6	416.2	717.1	700.5	468.0	454.3	349.8	384.0
40°	396.7	394.7	456.3	470.9	478.7	649.7	847.1	597.0	566.7	411.3	500.2
42.5°	438.7	434.8	484.6	500.2	500.2	550.1	958.5	726.9	656.6	479.7	611.6
45°	455.3	459.2	523.7	504.1	518.8	564.7	1077.7	906.7	808.0	562.8	709.3
47.5°	412.3	418.2	511.0	512.9	438.7	451.4	966.3	941.9	860.8	602.8	740.6
50°	506.1	510.0	543.2	520.8	484.6	571.6	1150.9	1210.5	1175.4	746.5	781.6
52.5°	694.7	712.3	743.5	763.1	752.3	960.4	1543.7	1533.0	1503.7	1120.7	1066.9
55°	899.8	914.5	958.5	1076.7	1166.6	1438.2	1919.9	2144.6	2142.6	1820.2	1662.9
57.5°	1086.5	1087.4	1093.3	1238.9	1377.6	1877.9	2514.9	3340.5	3414.7	2907.6	2381.0
60°	1248.6	1245.7	1195.9	1325.8	1494.9	2328.3	3241.8	4334.1	4348.8	3697.1	2762.1
62.5°	1292.6	1283.8	1211.5	1332.7	1477.3	2337.1	3427.4	4215.9	4199.3	3752.8	2811.9
65°	1254.5	1245.7	1153.9	1262.3	1330.7	2124.1	3165.6	3625.8	3598.4	3428.4	2677.1
67.5°	1197.8	1203.7	1112.8	1195.9	1242.8	1992.2	2890.1	3119.7	3111.8	3194.9	2564.7
70°	1115.8	1120.7	1037.6	1140.2	1208.6	1908.1	2626.3	2875.4	2861.7	2983.9	2399.6
72.5°	1118.7	1133.4	1034.7	1111.9	1183.2	1792.9	2507.1	2791.4	2751.3	2769.9	2201.3
75°	1126.5	1146.1	1041.5	1110.9	1177.3	1750.8	2493.4	2798.2	2747.4	2692.7	2126.0
77.5°	1129.4	1157.8	1045.4	1121.6	1179.3	1693.2	2462.1	2764.0	2716.1	2618.4	2037.1
80°	1106.0	1136.3	1028.8	1122.6	1166.6	1578.9	2383.0	2758.2	2722.0	2608.7	2001.0
82.5°	1059.1	1089.4	996.6	1073.8	1142.1	1462.6	2271.6	2643.8	2641.9	2514.9	1924.8
85°	956.5	989.7	919.4	990.7	1074.7	1308.2	2046.9	2449.4	2503.2	2400.6	1822.2
87.5°	857.8	891.1	853.9	894.0	979.0	1137.3	1758.7	2114.3	2214.9	2129.9	1565.2
90°	745.5	779.7	749.4	733.8	802.1	907.7	1405.9	1644.3	1739.1	1687.3	1151.9
92.5°	597.0	626.3	597.9	561.8	602.8	666.3	1044.4	1150.9	1173.4	1123.6	755.2
95°	451.4	472.9	447.5	411.3	416.2	456.3	720.1	754.3	748.4	688.8	479.7
97.5°	313.6	326.3	309.7	284.3	293.1	318.5	476.8	472.9	472.9	421.1	313.6
100°	217.9	222.8	214.9	203.2	210.1	226.7	320.5	319.5	309.7	284.3	228.6
102.5°	172.9	173.9	166.1	158.3	154.4	170.0	231.6	230.6	232.5	220.8	178.8
105°	152.4	151.4	144.6	137.8	129.9	145.6	183.7	191.5	190.5	180.8	153.4
107.5°	139.7	138.7	131.9	126.0	119.2	132.9	159.3	170.0	169.0	168.0	144.6
110°	129.9	129.0	123.1	117.2	111.4	127.0	149.5	166.1	166.1	166.1	146.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
112.5°	123.1	123.1	118.2	113.3	108.5	126.0	143.6	163.2	163.2	168.0	153.4
115°	119.2	118.2	114.3	111.4	107.5	127.0	141.7	161.2	162.2	169.0	152.4
117.5°	116.3	115.3	112.4	108.5	106.5	125.1	142.6	165.1	164.1	174.9	149.5
120°	111.4	109.4	105.5	101.6	99.7	115.3	138.7	160.2	158.3	163.2	137.8
122.5°	107.5	101.6	94.8	91.8	91.8	104.5	129.9	144.6	142.6	138.7	124.1
125°	98.7	92.8	87.0	86.0	87.0	97.7	124.1	132.9	133.9	130.9	117.2
127.5°	88.9	85.0	82.1	82.1	84.0	95.7	122.1	128.0	128.0	122.1	111.4
130°	84.0	83.0	81.1	81.1	85.0	96.7	119.2	121.2	121.2	113.3	108.5
132.5°	82.1	80.1	78.2	78.2	82.1	93.8	111.4	115.3	114.3	106.5	102.6
135°	78.2	77.2	75.2	75.2	80.1	91.8	104.5	108.5	107.5	97.7	94.8
137.5°	76.2	74.3	74.3	74.3	79.1	90.9	98.7	101.6	100.6	90.9	87.9
140°	73.3	72.3	70.3	70.3	77.2	87.9	92.8	93.8	92.8	85.0	82.1
142.5°	68.4	67.4	66.4	68.4	75.2	83.0	87.0	87.0	86.0	81.1	77.2
145°	65.5	64.5	63.5	68.4	74.3	78.2	82.1	79.1	79.1	76.2	72.3
147.5°	62.5	61.6	61.6	65.5	70.3	70.3	73.3	72.3	73.3	72.3	68.4
150°	56.7	55.7	55.7	58.6	59.6	59.6	62.5	62.5	62.5	62.5	59.6
152.5°	49.8	48.9	49.8	50.8	50.8	50.8	52.8	53.7	53.7	52.8	51.8
155°	43.0	43.0	43.0	44.0	44.0	43.0	45.9	45.9	45.9	45.9	44.9
157.5°	38.1	38.1	38.1	38.1	38.1	37.1	39.1	39.1	40.1	39.1	39.1
160°	33.2	32.2	32.2	32.2	32.2	31.3	32.2	32.2	32.2	33.2	33.2
162.5°	26.4	25.4	25.4	25.4	25.4	23.4	25.4	24.4	25.4	25.4	26.4
165°	21.5	20.5	20.5	20.5	19.5	18.6	19.5	18.6	18.6	18.6	19.5
167.5°	16.6	16.6	15.6	16.6	15.6	13.7	13.7	12.7	12.7	12.7	12.7
170°	12.7	11.7	10.7	11.7	10.7	8.8	8.8	7.8	7.8	6.8	6.8
172.5°	8.8	7.8	6.8	7.8	6.8	4.9	4.9	2.9	2.9	2.9	2.9
175°	7.8	6.8	5.9	6.8	5.9	3.9	2.9	2.0	2.0	2.0	2.0
177.5°	7.8	6.8	5.9	6.8	5.9	3.9	2.9	2.0	2.0	2.0	2.0
180°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
2.5°	58.6	57.6	56.7	58.6	57.6	58.6	59.6	60.6	60.6	59.6	59.6
5°	67.4	66.4	64.5	63.5	61.6	61.6	61.6	63.5	63.5	62.5	63.5
7.5°	80.1	78.2	75.2	73.3	70.3	70.3	69.4	71.3	72.3	70.3	71.3
10°	89.9	88.9	85.0	82.1	79.1	78.2	78.2	79.1	79.1	78.2	78.2
12.5°	98.7	96.7	92.8	89.9	86.0	85.0	85.0	86.0	86.0	85.0	85.0
15°	111.4	105.5	101.6	98.7	94.8	93.8	92.8	93.8	94.8	92.8	92.8
17.5°	129.0	122.1	113.3	105.5	101.6	103.6	104.5	105.5	104.5	101.6	101.6
20°	138.7	134.8	123.1	117.2	112.4	112.4	112.4	112.4	112.4	111.4	112.4
22.5°	145.6	139.7	125.1	121.2	118.2	120.2	122.1	123.1	123.1	122.1	122.1
25°	176.8	155.3	140.7	137.8	133.9	134.8	132.9	132.9	133.9	132.9	134.8
27.5°	243.3	208.1	174.9	163.2	160.2	160.2	162.2	162.2	162.2	162.2	161.2
30°	292.1	251.1	196.4	180.8	178.8	187.6	192.5	196.4	194.4	191.5	191.5
32.5°	299.9	255.0	200.3	194.4	199.3	206.2	211.0	214.0	216.9	215.9	214.9
35°	283.3	235.5	197.4	205.2	209.1	213.0	214.0	212.0	220.8	224.7	225.7
37.5°	316.6	263.8	229.6	235.5	230.6	226.7	228.6	229.6	241.3	247.2	253.1
40°	404.5	318.5	260.9	257.9	255.0	263.8	275.5	281.4	280.4	276.5	277.5
42.5°	489.5	372.2	294.1	293.1	292.1	307.8	326.3	325.4	316.6	309.7	309.7
45°	576.4	424.0	346.8	347.8	345.9	351.7	356.6	352.7	353.7	355.6	357.6
47.5°	630.2	470.9	380.1	377.1	364.4	376.2	389.8	381.0	378.1	373.2	375.2
50°	642.9	482.7	399.6	421.1	409.4	400.6	385.9	380.1	390.8	398.6	404.5
52.5°	835.4	596.0	499.3	533.5	517.8	486.6	483.6	473.9	485.6	486.6	493.4
55°	1400.1	955.5	687.8	721.0	722.0	711.3	760.1	732.8	708.3	697.6	693.7
57.5°	2207.1	1477.3	890.1	932.1	972.1	1010.2	1076.7	1021.0	950.7	941.9	951.6
60°	2826.6	2086.0	1135.3	1253.5	1307.3	1309.2	1318.0	1263.3	1220.3	1224.2	1237.9
62.5°	2959.4	2594.0	1446.0	1494.9	1499.7	1463.6	1479.2	1514.4	1453.8	1405.9	1418.6
65°	2870.5	2795.3	1547.6	1420.6	1412.8	1418.6	1525.1	1622.8	1500.7	1379.6	1379.6
67.5°	2698.6	2641.9	1444.1	1278.0	1299.5	1365.9	1500.7	1549.6	1419.6	1290.7	1290.7
70°	2514.9	2401.5	1327.8	1164.6	1217.4	1294.6	1382.5	1386.4	1310.2	1218.4	1212.5
72.5°	2316.5	2214.0	1278.0	1131.4	1155.8	1169.5	1217.4	1247.7	1238.9	1179.3	1178.3
75°	2257.9	2174.9	1277.0	1115.8	1101.1	1096.2	1129.4	1194.9	1225.2	1190.0	1192.0
77.5°	2169.0	2119.2	1217.4	1050.3	1034.7	1034.7	1052.3	1105.0	1150.9	1136.3	1141.2
80°	2107.5	2032.2	1126.5	979.0	957.5	960.4	962.4	998.5	1041.5	1043.5	1043.5
82.5°	1989.2	1847.6	988.8	872.5	857.8	861.7	854.9	875.4	887.1	901.8	898.9
85°	1794.8	1594.5	835.4	756.2	732.8	725.0	719.1	720.1	726.9	724.0	712.3
87.5°	1503.7	1264.3	666.3	620.4	593.1	573.5	565.7	555.9	555.0	544.2	548.1
90°	1109.9	867.6	494.4	477.8	458.2	437.7	427.0	417.2	409.4	398.6	394.7
92.5°	724.0	558.9	361.5	352.7	340.0	328.3	323.4	318.5	316.6	307.8	310.7
95°	452.4	378.1	271.6	261.8	255.0	252.1	253.1	254.0	252.1	242.3	245.2
97.5°	301.9	273.6	212.0	205.2	198.3	197.4	198.3	200.3	201.3	194.4	196.4
100°	222.8	210.1	173.9	169.0	163.2	161.2	162.2	164.1	165.1	159.3	160.2
102.5°	176.8	171.0	150.5	148.5	141.7	139.7	141.7	142.6	143.6	139.7	139.7
105°	155.3	155.3	138.7	137.8	132.9	130.9	131.9	132.9	133.9	129.9	129.9
107.5°	149.5	150.5	133.9	134.8	131.9	130.9	132.9	134.8	133.9	130.9	129.9
110°	154.4	156.3	133.9	136.8	137.8	139.7	143.6	144.6	144.6	142.6	143.6



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	159.3	162.2	131.9	138.7	145.6	150.5	157.3	161.2	159.3	158.3	159.3
115°	155.3	157.3	123.1	133.9	146.6	153.4	155.3	155.3	150.5	150.5	151.4
117.5°	150.5	154.4	114.3	123.1	131.9	137.8	136.8	133.9	128.0	126.0	131.9
120°	139.7	151.4	109.4	111.4	112.4	114.3	111.4	108.5	103.6	102.6	106.5
122.5°	129.0	139.7	100.6	98.7	97.7	97.7	96.7	95.7	92.8	93.8	97.7
125°	120.2	126.0	91.8	88.9	87.9	88.9	88.9	88.9	87.0	85.0	85.0
127.5°	113.3	115.3	87.0	83.0	82.1	82.1	82.1	83.0	82.1	79.1	79.1
130°	109.4	108.5	84.0	77.2	76.2	77.2	77.2	78.2	76.2	74.3	74.3
132.5°	101.6	99.7	80.1	73.3	72.3	73.3	73.3	73.3	71.3	69.4	69.4
135°	92.8	90.9	75.2	68.4	67.4	68.4	68.4	69.4	67.4	65.5	65.5
137.5°	86.0	84.0	70.3	64.5	63.5	63.5	64.5	64.5	63.5	61.6	61.6
140°	80.1	78.2	65.5	60.6	58.6	59.6	59.6	59.6	58.6	56.7	56.7
142.5°	75.2	74.3	60.6	55.7	53.7	54.7	54.7	55.7	53.7	51.8	51.8
145°	71.3	69.4	56.7	50.8	49.8	49.8	49.8	50.8	48.9	46.9	46.9
147.5°	67.4	65.5	51.8	45.9	44.9	44.9	44.9	44.9	44.0	42.0	41.0
150°	59.6	58.6	47.9	42.0	40.1	40.1	40.1	39.1	37.1	35.2	35.2
152.5°	50.8	49.8	42.0	37.1	35.2	35.2	34.2	34.2	32.2	31.3	30.3
155°	44.0	44.0	38.1	33.2	31.3	30.3	29.3	29.3	28.3	27.4	26.4
157.5°	39.1	38.1	34.2	30.3	26.4	26.4	25.4	25.4	24.4	23.4	22.5
160°	33.2	33.2	29.3	25.4	22.5	21.5	21.5	20.5	19.5	18.6	18.6
162.5°	26.4	26.4	23.4	20.5	17.6	17.6	16.6	16.6	15.6	14.7	13.7
165°	18.6	18.6	17.6	15.6	13.7	12.7	12.7	12.7	11.7	10.7	10.7
167.5°	12.7	12.7	11.7	10.7	9.8	8.8	9.8	9.8	8.8	7.8	7.8
170°	6.8	6.8	5.9	5.9	4.9	4.9	5.9	6.8	5.9	4.9	3.9
172.5°	2.9	2.9	2.9	2.9	2.0	2.9	3.9	4.9	3.9	2.9	2.9
175°	2.0	2.0	2.9	2.9	2.0	2.9	3.9	4.9	3.9	2.9	2.9
177.5°	2.0	2.0	2.9	2.9	2.0	2.9	3.9	4.9	3.9	2.9	2.9
180°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9

(END OF REPORT)