

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: P588472

Luminaire Tested: **GAT-CA6-LED-60-727-U-33-5-X-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588472
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-60-727-U-33-5-X-X
Description: GENERATIONS SERIES AVENUE WITH NO CAGE AND TYPE III REFRACTOR
Light Source: (6) 2700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8460 lumens
Efficiency: N/A
Efficacy: 131.6 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

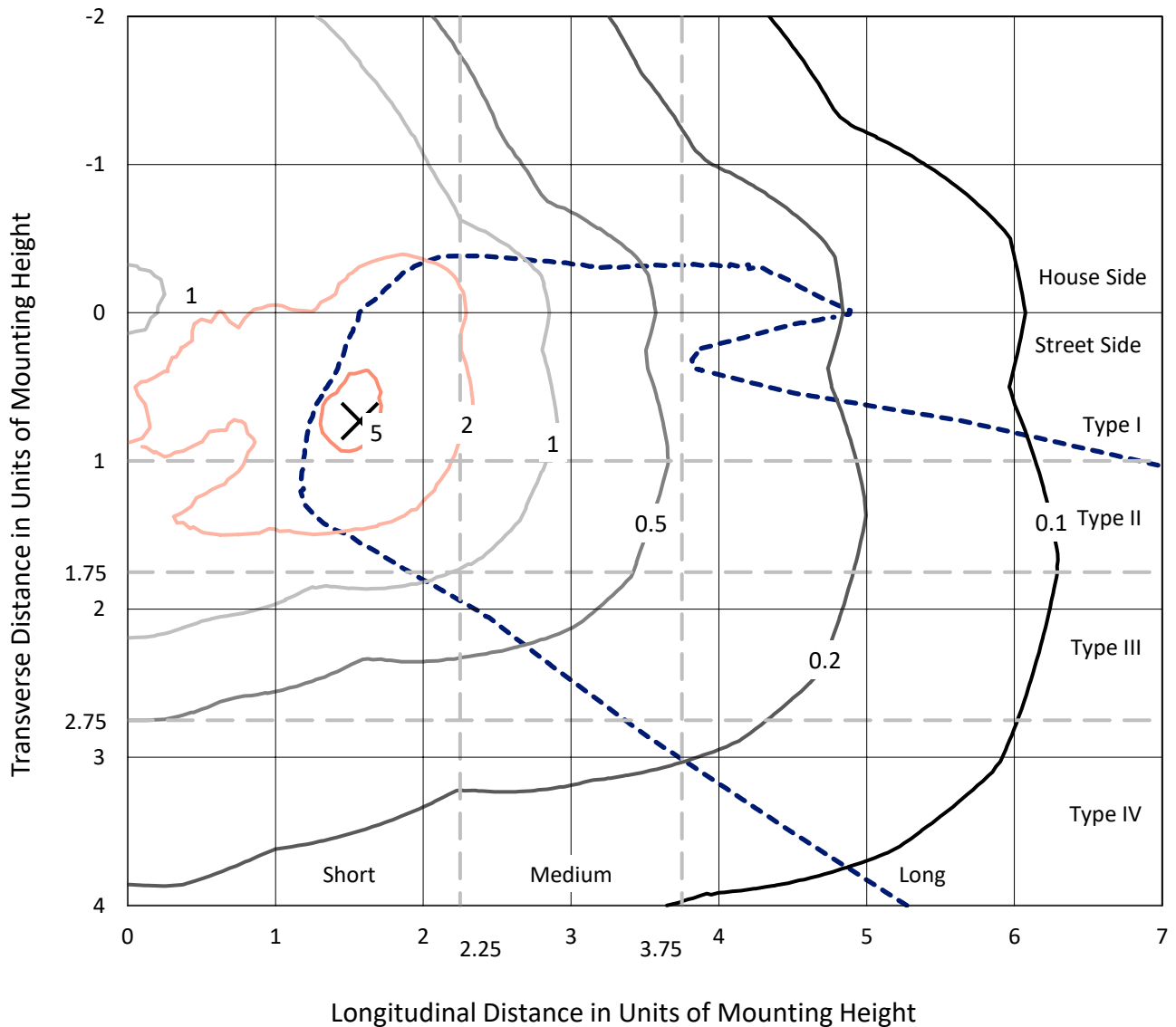
Input Watts (W): 64.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

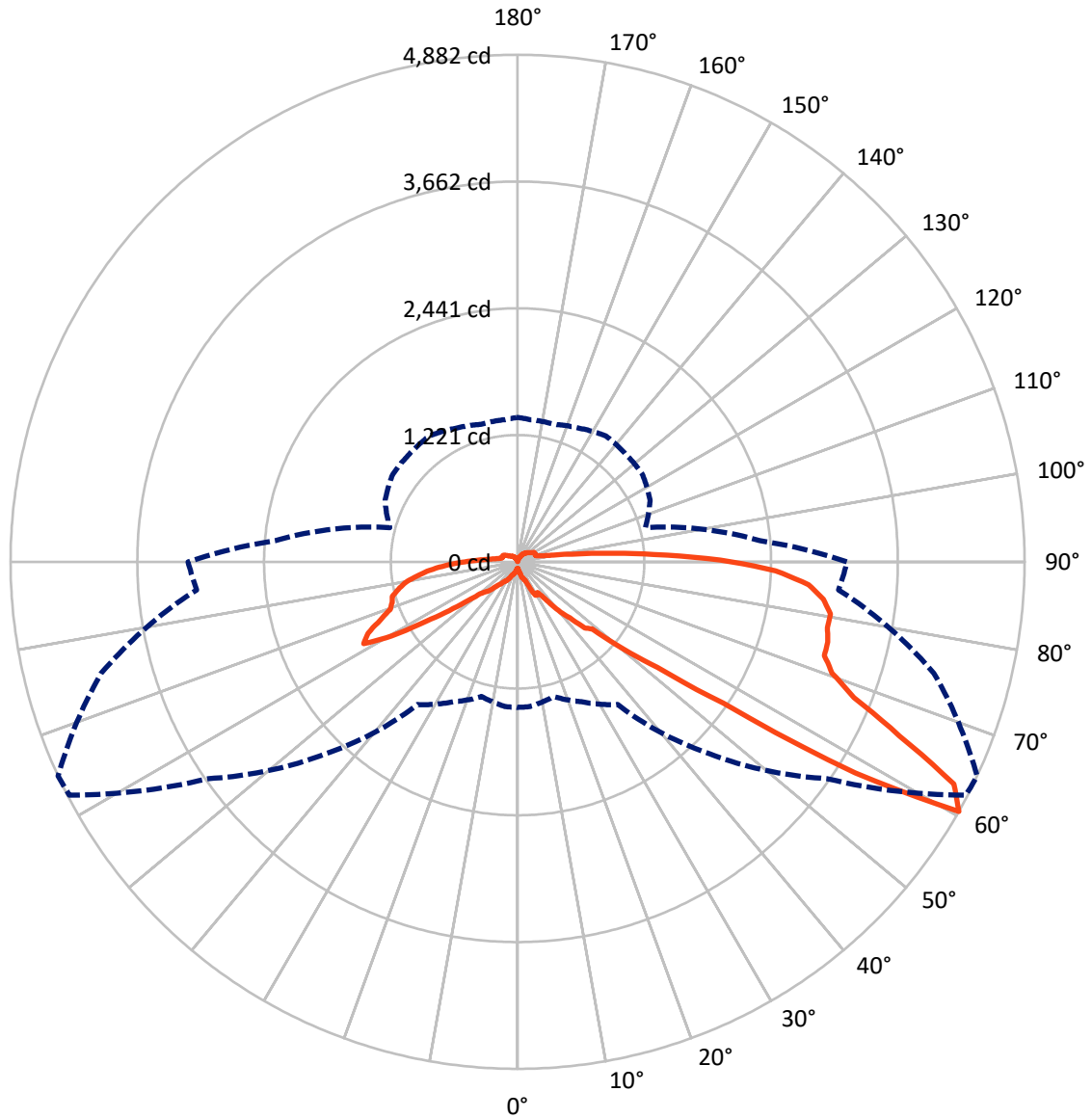
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.1 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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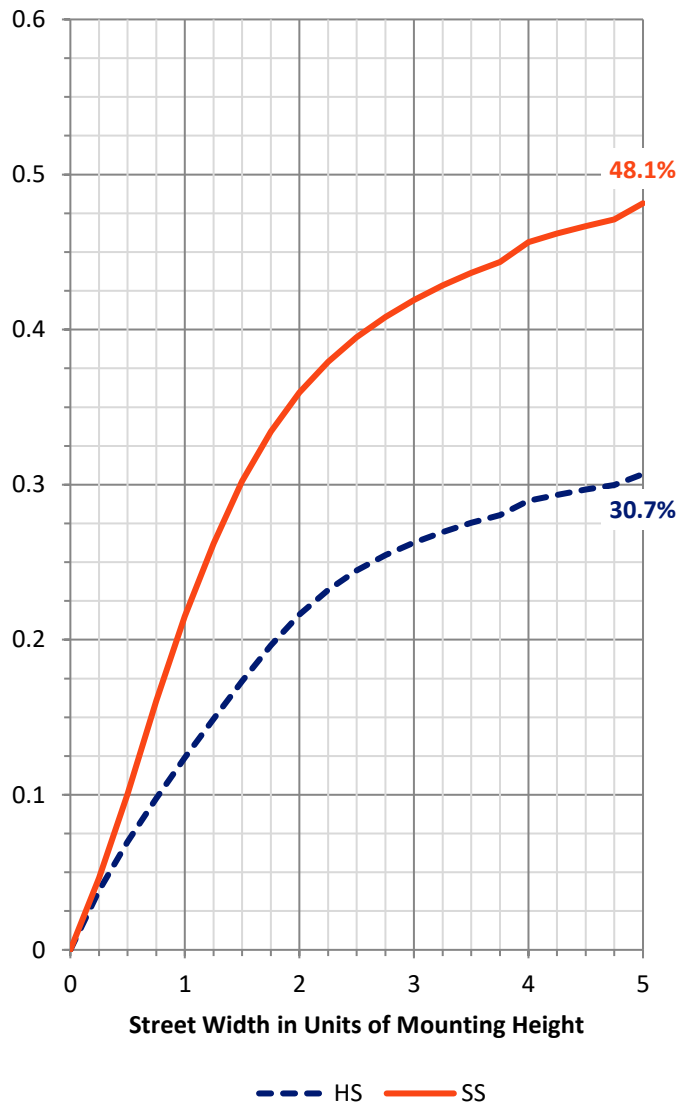
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2821.2	451.8	3273.0
	% Fixture	33.3	5.3	38.7
Street Side	Lumens	4513.6	673.4	5187.0
	% Fixture	53.4	8.0	61.3
Total	Lumens	7334.8	1125.2	8460.0
	% Fixture	86.7	13.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.1	0.1
10°-20°	36.1	0.4
20°-30°	103.3	1.2
30°-40°	222.5	2.6
40°-50°	421.1	5.0
50°-60°	1176.2	13.9
60°-70°	2097.0	24.8
70°-80°	1835.9	21.7
80°-90°	1434.5	17.0
90°-100°	542.3	6.4
100°-110°	186.5	2.2
110°-120°	152.5	1.8
120°-130°	102.5	1.2
130°-140°	70.3	0.8
140°-150°	44.2	0.5
150°-160°	20.5	0.2
160°-170°	5.8	0.1
170°-180°	0.5	0.0
0°-90°	7334.8	86.7
0°-180°	8460.0	100.0

Coefficient of Utilization



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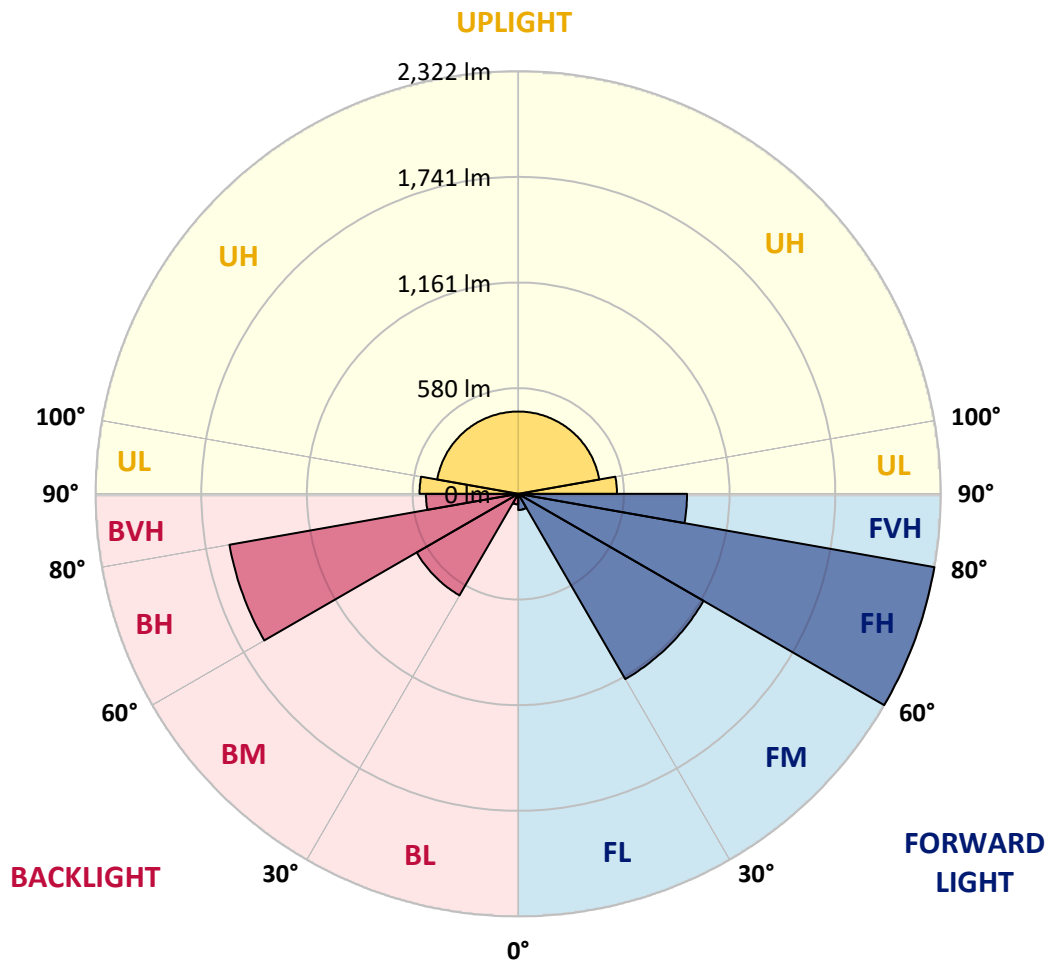
CATALOG NUMBER: GAT-CA6-LED-60-727-U-33-5-X-X

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	89.1	1.1			
FM (30°-60°)	1175.4	13.9			
FH (60°-80°)	2321.8	27.4			G2/5000
FVH (80°-90°)	927.2	11.0			G5
BL (0°-30°)	58.4	0.7	B0/110		
BM (30°-60°)	644.4	7.6	B1/1000		
BH (60°-80°)	1611.1	19.0	B3/2500		G3/2500
BVH (80°-90°)	507.3	6.0			G4/750
UL (90°-100°)	542.3	6.4		U4/1000	
UH (100°-180°)	451.8	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°	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
2.5°	74.6	72.4	70.2	70.2	69.1	68.0	68.0	65.8	66.9	65.8	65.8
5°	87.7	86.6	84.5	85.6	83.4	82.3	82.3	81.2	80.1	79.0	75.7
7.5°	102.0	102.0	103.1	104.2	100.9	97.6	96.5	94.3	94.3	93.2	91.0
10°	117.4	116.3	111.9	111.9	109.7	107.5	108.6	107.5	107.5	107.5	103.1
12.5°	121.7	120.7	117.4	117.4	117.4	116.3	120.7	119.6	120.7	119.6	113.0
15°	137.1	136.0	134.9	136.0	140.4	149.2	160.1	155.7	156.8	154.7	130.5
17.5°	143.7	147.0	149.2	150.3	154.7	154.7	156.8	155.7	160.1	163.4	149.2
20°	166.7	164.5	166.7	174.4	185.4	186.5	183.2	183.2	185.4	186.5	159.0
22.5°	176.6	175.5	184.3	177.7	177.7	183.2	202.9	196.3	196.3	194.1	171.1
25°	229.2	233.6	242.4	253.4	279.7	287.4	309.3	285.2	288.5	254.5	217.2
27.5°	275.3	278.6	330.1	376.2	397.1	386.1	404.7	359.8	364.1	368.5	317.0
30°	289.6	296.1	370.7	404.7	432.1	410.2	434.3	375.1	371.8	397.1	376.2
32.5°	278.6	285.2	364.1	378.4	406.9	488.1	457.4	362.0	352.1	364.1	389.4
35°	306.0	310.4	357.6	323.6	349.9	682.2	598.9	422.3	402.5	335.6	372.9
37.5°	367.4	367.4	423.4	447.5	467.2	805.1	786.4	525.4	510.0	392.7	431.1
40°	445.3	443.1	512.2	528.7	537.4	729.4	950.9	670.2	636.2	461.8	561.6
42.5°	492.5	488.1	544.0	561.6	561.6	617.5	1076.0	816.0	737.1	538.5	686.6
45°	511.1	515.5	587.9	566.0	582.4	634.0	1209.8	1017.9	907.1	631.8	796.3
47.5°	462.9	469.4	573.6	575.8	492.5	506.7	1084.8	1057.3	966.3	676.7	831.4
50°	568.2	572.5	609.8	584.6	544.0	641.6	1292.1	1359.0	1319.5	838.0	877.5
52.5°	779.8	799.6	834.7	856.6	844.6	1078.2	1733.0	1720.9	1688.0	1258.1	1197.7
55°	1010.2	1026.6	1076.0	1208.7	1309.6	1614.5	2155.3	2407.5	2405.3	2043.4	1866.8
57.5°	1219.7	1220.8	1227.3	1390.8	1546.5	2108.1	2823.2	3750.0	3833.4	3264.2	2673.0
60°	1401.7	1398.5	1342.5	1488.4	1678.1	2613.7	3639.3	4865.5	4882.0	4150.4	3100.7
62.5°	1451.1	1441.2	1360.1	1496.1	1658.4	2623.6	3847.7	4732.8	4714.2	4212.9	3156.7
65°	1408.3	1398.5	1295.4	1417.1	1493.9	2384.5	3553.7	4070.3	4039.6	3848.8	3005.3
67.5°	1344.7	1351.3	1249.3	1342.5	1395.2	2236.4	3244.4	3502.2	3493.4	3586.6	2879.2
70°	1252.6	1258.1	1164.8	1280.0	1356.8	2142.1	2948.3	3228.0	3212.6	3349.7	2693.8
72.5°	1255.9	1272.3	1161.5	1248.2	1328.3	2012.7	2814.5	3133.6	3088.7	3109.5	2471.1
75°	1264.6	1286.6	1169.2	1247.1	1321.7	1965.5	2799.1	3141.3	3084.3	3022.9	2386.7
77.5°	1267.9	1299.7	1173.6	1259.2	1323.9	1900.8	2764.0	3102.9	3049.2	2939.5	2286.9
80°	1241.6	1275.6	1155.0	1260.3	1309.6	1772.5	2675.2	3096.3	3055.8	2928.5	2246.3
82.5°	1189.0	1223.0	1118.8	1205.4	1282.2	1641.9	2550.1	2968.0	2965.8	2823.2	2160.7
85°	1073.8	1111.1	1032.1	1112.2	1206.5	1468.7	2297.9	2749.7	2810.1	2694.9	2045.6
87.5°	963.0	1000.3	958.6	1003.6	1099.0	1276.7	1974.3	2373.5	2486.5	2391.1	1757.1
90°	836.9	875.3	841.3	823.7	900.5	1019.0	1578.3	1846.0	1952.4	1894.2	1293.2
92.5°	670.2	703.1	671.3	630.7	676.7	748.0	1172.5	1292.1	1317.3	1261.4	847.8
95°	506.7	530.9	502.3	461.8	467.2	512.2	808.4	846.7	840.2	773.3	538.5
97.5°	352.1	366.3	347.7	319.2	329.0	357.6	535.3	530.9	530.9	472.7	352.1
100°	244.6	250.1	241.3	228.1	235.8	254.5	359.8	358.7	347.7	319.2	256.7
102.5°	194.1	195.2	186.5	177.7	173.3	190.8	259.9	258.9	261.0	247.9	200.7
105°	171.1	170.0	162.3	154.7	145.9	163.4	206.2	215.0	213.9	202.9	172.2
107.5°	156.8	155.7	148.1	141.5	133.8	149.2	178.8	190.8	189.8	188.7	162.3
110°	145.9	144.8	138.2	131.6	125.0	142.6	167.8	186.5	186.5	186.5	164.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
112.5°	138.2	138.2	132.7	127.2	121.7	141.5	161.2	183.2	183.2	188.7	172.2
115°	133.8	132.7	128.3	125.0	120.7	142.6	159.0	181.0	182.1	189.8	171.1
117.5°	130.5	129.4	126.1	121.7	119.6	140.4	160.1	185.4	184.3	196.3	167.8
120°	125.0	122.8	118.5	114.1	111.9	129.4	155.7	179.9	177.7	183.2	154.7
122.5°	120.7	114.1	106.4	103.1	103.1	117.4	145.9	162.3	160.1	155.7	139.3
125°	110.8	104.2	97.6	96.5	97.6	109.7	139.3	149.2	150.3	147.0	131.6
127.5°	99.8	95.4	92.1	92.1	94.3	107.5	137.1	143.7	143.7	137.1	125.0
130°	94.3	93.2	91.0	91.0	95.4	108.6	133.8	136.0	136.0	127.2	121.7
132.5°	92.1	89.9	87.7	87.7	92.1	105.3	125.0	129.4	128.3	119.6	115.2
135°	87.7	86.6	84.5	84.5	89.9	103.1	117.4	121.7	120.7	109.7	106.4
137.5°	85.6	83.4	83.4	83.4	88.8	102.0	110.8	114.1	113.0	102.0	98.7
140°	82.3	81.2	79.0	79.0	86.6	98.7	104.2	105.3	104.2	95.4	92.1
142.5°	76.8	75.7	74.6	76.8	84.5	93.2	97.6	97.6	96.5	91.0	86.6
145°	73.5	72.4	71.3	76.8	83.4	87.7	92.1	88.8	88.8	85.6	81.2
147.5°	70.2	69.1	69.1	73.5	79.0	79.0	82.3	81.2	82.3	81.2	76.8
150°	63.6	62.5	62.5	65.8	66.9	66.9	70.2	70.2	70.2	70.2	66.9
152.5°	55.9	54.8	55.9	57.0	57.0	57.0	59.2	60.3	60.3	59.2	58.1
155°	48.3	48.3	48.3	49.4	49.4	48.3	51.6	51.6	51.6	51.6	50.5
157.5°	42.8	42.8	42.8	42.8	42.8	41.7	43.9	43.9	45.0	43.9	43.9
160°	37.3	36.2	36.2	36.2	36.2	35.1	36.2	36.2	36.2	37.3	37.3
162.5°	29.6	28.5	28.5	28.5	28.5	26.3	28.5	27.4	28.5	28.5	29.6
165°	24.1	23.0	23.0	23.0	21.9	20.8	21.9	20.8	20.8	20.8	21.9
167.5°	18.6	18.6	17.5	18.6	17.5	15.4	15.4	14.3	14.3	14.3	14.3
170°	14.3	13.2	12.1	13.2	12.1	9.9	9.9	8.8	8.8	7.7	7.7
172.5°	9.9	8.8	7.7	8.8	7.7	5.5	5.5	3.3	3.3	3.3	3.3
175°	8.8	7.7	6.6	7.7	6.6	4.4	3.3	2.2	2.2	2.2	2.2
177.5°	8.8	7.7	6.6	7.7	6.6	4.4	3.3	2.2	2.2	2.2	2.2
180°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
2.5°	65.8	64.7	63.6	65.8	64.7	65.8	66.9	68.0	68.0	66.9	66.9
5°	75.7	74.6	72.4	71.3	69.1	69.1	69.1	71.3	71.3	70.2	71.3
7.5°	89.9	87.7	84.5	82.3	79.0	79.0	77.9	80.1	81.2	79.0	80.1
10°	100.9	99.8	95.4	92.1	88.8	87.7	87.7	88.8	88.8	87.7	87.7
12.5°	110.8	108.6	104.2	100.9	96.5	95.4	95.4	96.5	96.5	95.4	95.4
15°	125.0	118.5	114.1	110.8	106.4	105.3	104.2	105.3	106.4	104.2	104.2
17.5°	144.8	137.1	127.2	118.5	114.1	116.3	117.4	118.5	117.4	114.1	114.1
20°	155.7	151.4	138.2	131.6	126.1	126.1	126.1	126.1	126.1	125.0	126.1
22.5°	163.4	156.8	140.4	136.0	132.7	134.9	137.1	138.2	138.2	137.1	137.1
25°	198.5	174.4	157.9	154.7	150.3	151.4	149.2	149.2	150.3	149.2	151.4
27.5°	273.1	233.6	196.3	183.2	179.9	179.9	182.1	182.1	182.1	182.1	181.0
30°	328.0	281.9	220.5	202.9	200.7	210.6	216.1	220.5	218.3	215.0	215.0
32.5°	336.7	286.3	224.8	218.3	223.8	231.4	236.9	240.2	243.5	242.4	241.3
35°	318.1	264.3	221.6	230.3	234.7	239.1	240.2	238.0	247.9	252.3	253.4
37.5°	355.4	296.1	257.8	264.3	258.9	254.5	256.7	257.8	270.9	277.5	284.1
40°	454.1	357.6	292.9	289.6	286.3	296.1	309.3	315.9	314.8	310.4	311.5
42.5°	549.5	417.9	330.1	329.0	328.0	345.5	366.3	365.2	355.4	347.7	347.7
45°	647.1	476.0	389.4	390.5	388.3	394.9	400.3	396.0	397.1	399.2	401.4
47.5°	707.5	528.7	426.7	423.4	409.1	422.3	437.6	427.8	424.5	419.0	421.2
50°	721.7	541.8	448.6	472.7	459.6	449.7	433.2	426.7	438.7	447.5	454.1
52.5°	937.8	669.1	560.5	598.9	581.3	546.2	542.9	532.0	545.1	546.2	553.9
55°	1571.8	1072.7	772.2	809.5	810.6	798.5	853.3	822.6	795.2	783.1	778.7
57.5°	2477.7	1658.4	999.2	1046.4	1091.3	1134.1	1208.7	1146.2	1067.2	1057.3	1068.3
60°	3173.1	2341.7	1274.5	1407.2	1467.6	1469.7	1479.6	1418.2	1369.9	1374.3	1389.7
62.5°	3322.3	2912.1	1623.3	1678.1	1683.6	1643.0	1660.6	1700.1	1632.1	1578.3	1592.6
65°	3222.5	3138.0	1737.4	1594.8	1586.0	1592.6	1712.1	1821.8	1684.7	1548.7	1548.7
67.5°	3029.4	2965.8	1621.1	1434.6	1458.8	1533.4	1684.7	1739.6	1593.7	1448.9	1448.9
70°	2823.2	2696.0	1490.6	1307.4	1366.6	1453.3	1552.0	1556.4	1470.8	1367.7	1361.2
72.5°	2600.6	2485.4	1434.6	1270.1	1297.5	1312.9	1366.6	1400.6	1390.8	1323.9	1322.8
75°	2534.8	2441.5	1433.6	1252.6	1236.1	1230.6	1267.9	1341.4	1375.4	1335.9	1338.1
77.5°	2435.0	2379.0	1366.6	1179.1	1161.5	1161.5	1181.3	1240.5	1292.1	1275.6	1281.1
80°	2365.9	2281.4	1264.6	1099.0	1074.9	1078.2	1080.4	1121.0	1169.2	1171.4	1171.4
82.5°	2233.1	2074.1	1110.0	979.5	963.0	967.4	959.7	982.8	995.9	1012.4	1009.1
85°	2014.9	1790.0	937.8	848.9	822.6	813.8	807.3	808.4	816.0	812.7	799.6
87.5°	1688.0	1419.3	748.0	696.5	665.8	643.8	635.1	624.1	623.0	610.9	615.3
90°	1246.0	974.0	555.0	536.3	514.4	491.4	479.3	468.3	459.6	447.5	443.1
92.5°	812.7	627.4	405.8	396.0	381.7	368.5	363.0	357.6	355.4	345.5	348.8
95°	507.8	424.5	304.9	293.9	286.3	283.0	284.1	285.2	283.0	272.0	275.3
97.5°	338.9	307.1	238.0	230.3	222.7	221.6	222.7	224.8	225.9	218.3	220.5
100°	250.1	235.8	195.2	189.8	183.2	181.0	182.1	184.3	185.4	178.8	179.9
102.5°	198.5	191.9	168.9	166.7	159.0	156.8	159.0	160.1	161.2	156.8	156.8
105°	174.4	174.4	155.7	154.7	149.2	147.0	148.1	149.2	150.3	145.9	145.9
107.5°	167.8	168.9	150.3	151.4	148.1	147.0	149.2	151.4	150.3	147.0	145.9
110°	173.3	175.5	150.3	153.6	154.7	156.8	161.2	162.3	162.3	160.1	161.2



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	178.8	182.1	148.1	155.7	163.4	168.9	176.6	181.0	178.8	177.7	178.8
115°	174.4	176.6	138.2	150.3	164.5	172.2	174.4	174.4	168.9	168.9	170.0
117.5°	168.9	173.3	128.3	138.2	148.1	154.7	153.6	150.3	143.7	141.5	148.1
120°	156.8	170.0	122.8	125.0	126.1	128.3	125.0	121.7	116.3	115.2	119.6
122.5°	144.8	156.8	113.0	110.8	109.7	109.7	108.6	107.5	104.2	105.3	109.7
125°	134.9	141.5	103.1	99.8	98.7	99.8	99.8	99.8	97.6	95.4	95.4
127.5°	127.2	129.4	97.6	93.2	92.1	92.1	92.1	93.2	92.1	88.8	88.8
130°	122.8	121.7	94.3	86.6	85.6	86.6	86.6	87.7	85.6	83.4	83.4
132.5°	114.1	111.9	89.9	82.3	81.2	82.3	82.3	82.3	80.1	77.9	77.9
135°	104.2	102.0	84.5	76.8	75.7	76.8	76.8	77.9	75.7	73.5	73.5
137.5°	96.5	94.3	79.0	72.4	71.3	71.3	72.4	72.4	71.3	69.1	69.1
140°	89.9	87.7	73.5	68.0	65.8	66.9	66.9	66.9	65.8	63.6	63.6
142.5°	84.5	83.4	68.0	62.5	60.3	61.4	61.4	62.5	60.3	58.1	58.1
145°	80.1	77.9	63.6	57.0	55.9	55.9	55.9	57.0	54.8	52.6	52.6
147.5°	75.7	73.5	58.1	51.6	50.5	50.5	50.5	50.5	49.4	47.2	46.1
150°	66.9	65.8	53.7	47.2	45.0	45.0	45.0	43.9	41.7	39.5	39.5
152.5°	57.0	55.9	47.2	41.7	39.5	39.5	38.4	38.4	36.2	35.1	34.0
155°	49.4	49.4	42.8	37.3	35.1	34.0	32.9	32.9	31.8	30.7	29.6
157.5°	43.9	42.8	38.4	34.0	29.6	29.6	28.5	28.5	27.4	26.3	25.2
160°	37.3	37.3	32.9	28.5	25.2	24.1	24.1	23.0	21.9	20.8	20.8
162.5°	29.6	29.6	26.3	23.0	19.7	19.7	18.6	18.6	17.5	16.5	15.4
165°	20.8	20.8	19.7	17.5	15.4	14.3	14.3	14.3	13.2	12.1	12.1
167.5°	14.3	14.3	13.2	12.1	11.0	9.9	11.0	11.0	9.9	8.8	8.8
170°	7.7	7.7	6.6	6.6	5.5	5.5	6.6	7.7	6.6	5.5	4.4
172.5°	3.3	3.3	3.3	3.3	2.2	3.3	4.4	5.5	4.4	3.3	3.3
175°	2.2	2.2	3.3	3.3	2.2	3.3	4.4	5.5	4.4	3.3	3.3
177.5°	2.2	2.2	3.3	3.3	2.2	3.3	4.4	5.5	4.4	3.3	3.3
180°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4

(END OF REPORT)