

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: P588448

Luminaire Tested: **GAT-CA6-LED-50-727-U-33-5-X-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588448
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-50-727-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: 7211 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - U3 - G5

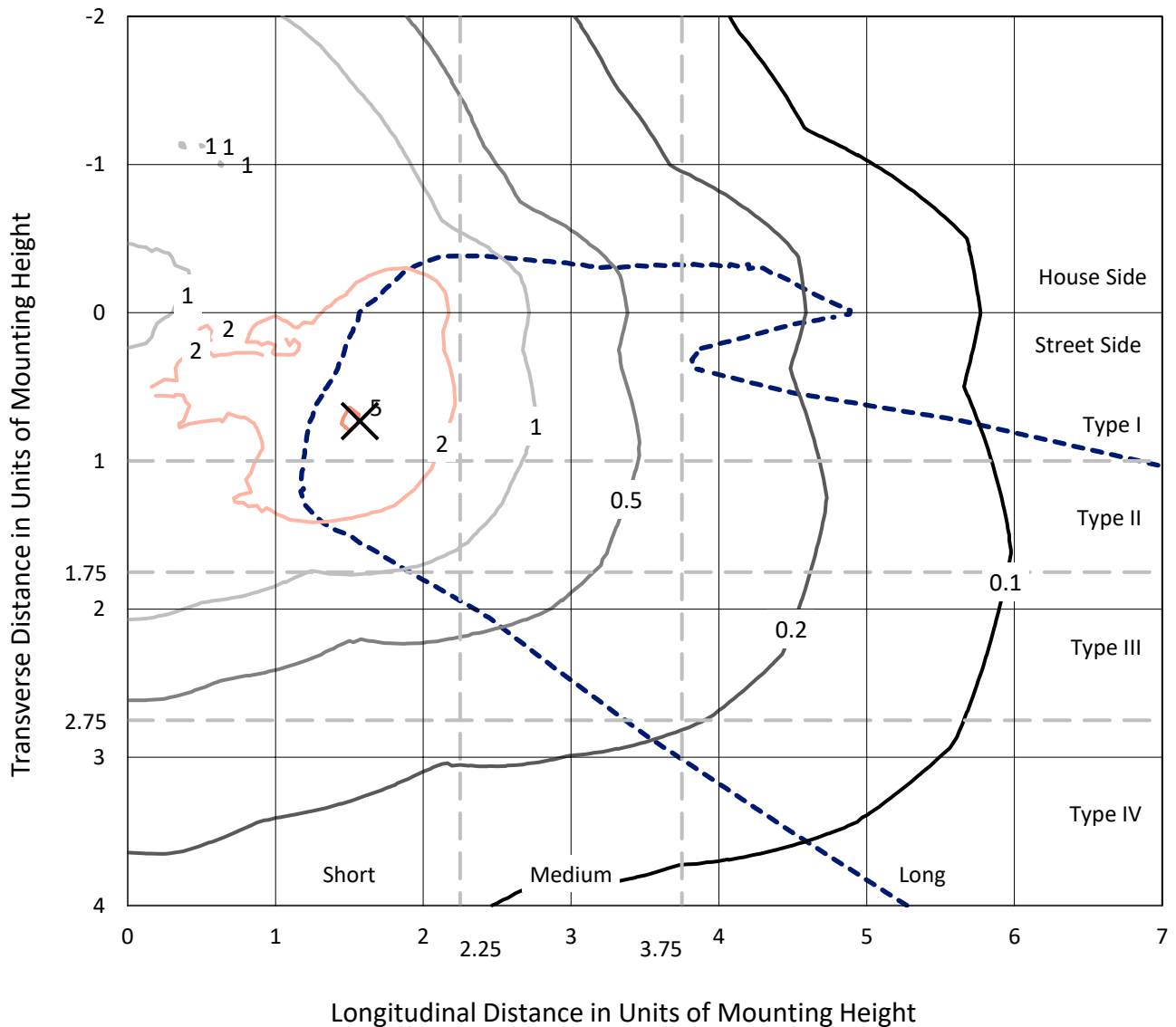
Input Watts (W): 54
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

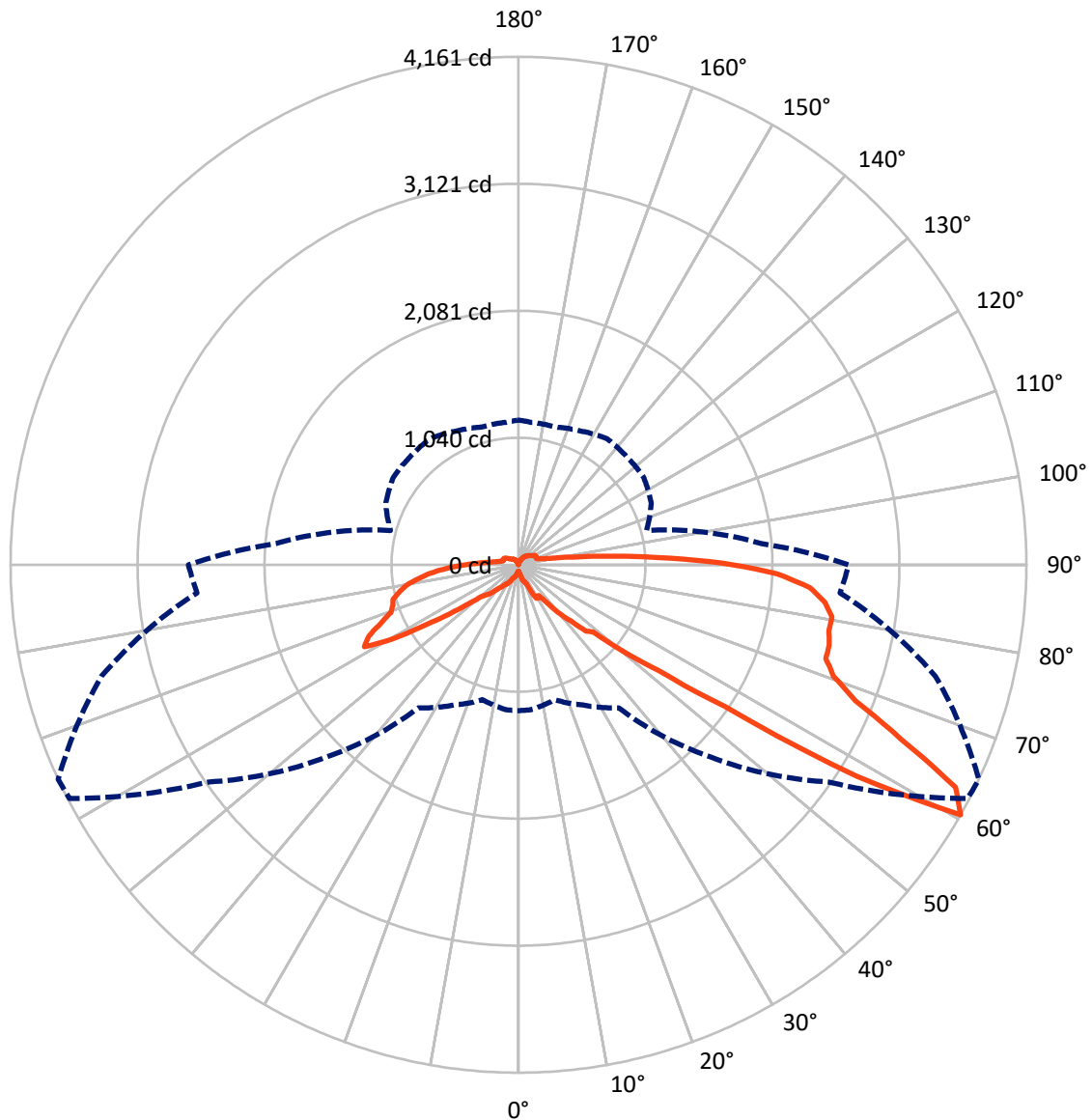
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.2 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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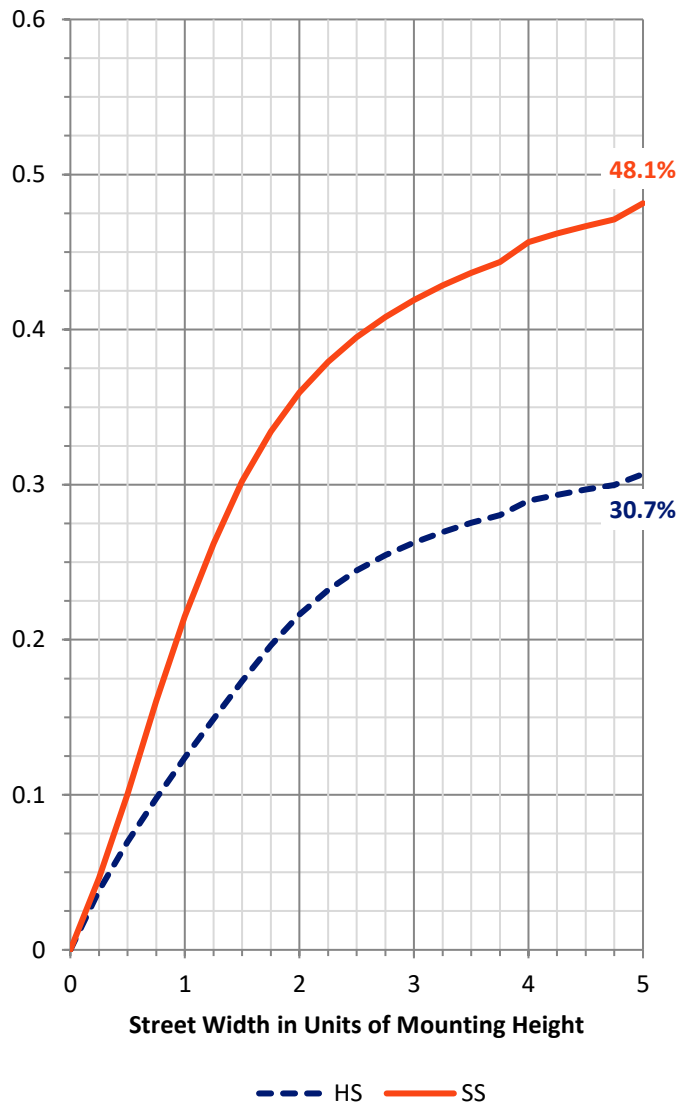
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2404.7	385.1	2789.8
	% Fixture	33.3	5.3	38.7
Street Side	Lumens	3847.2	574.0	4421.2
	% Fixture	53.4	8.0	61.3
Total	Lumens	6251.9	959.1	7211.0
	% Fixture	86.7	13.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.9	0.1
10°-20°	30.8	0.4
20°-30°	88.1	1.2
30°-40°	189.7	2.6
40°-50°	358.9	5.0
50°-60°	1002.6	13.9
60°-70°	1787.4	24.8
70°-80°	1564.9	21.7
80°-90°	1222.7	17.0
90°-100°	462.3	6.4
100°-110°	159.0	2.2
110°-120°	130.0	1.8
120°-130°	87.4	1.2
130°-140°	59.9	0.8
140°-150°	37.7	0.5
150°-160°	17.5	0.2
160°-170°	4.9	0.1
170°-180°	0.4	0.0
0°-90°	6251.9	86.7
0°-180°	7211.0	100.0

Coefficient of Utilization

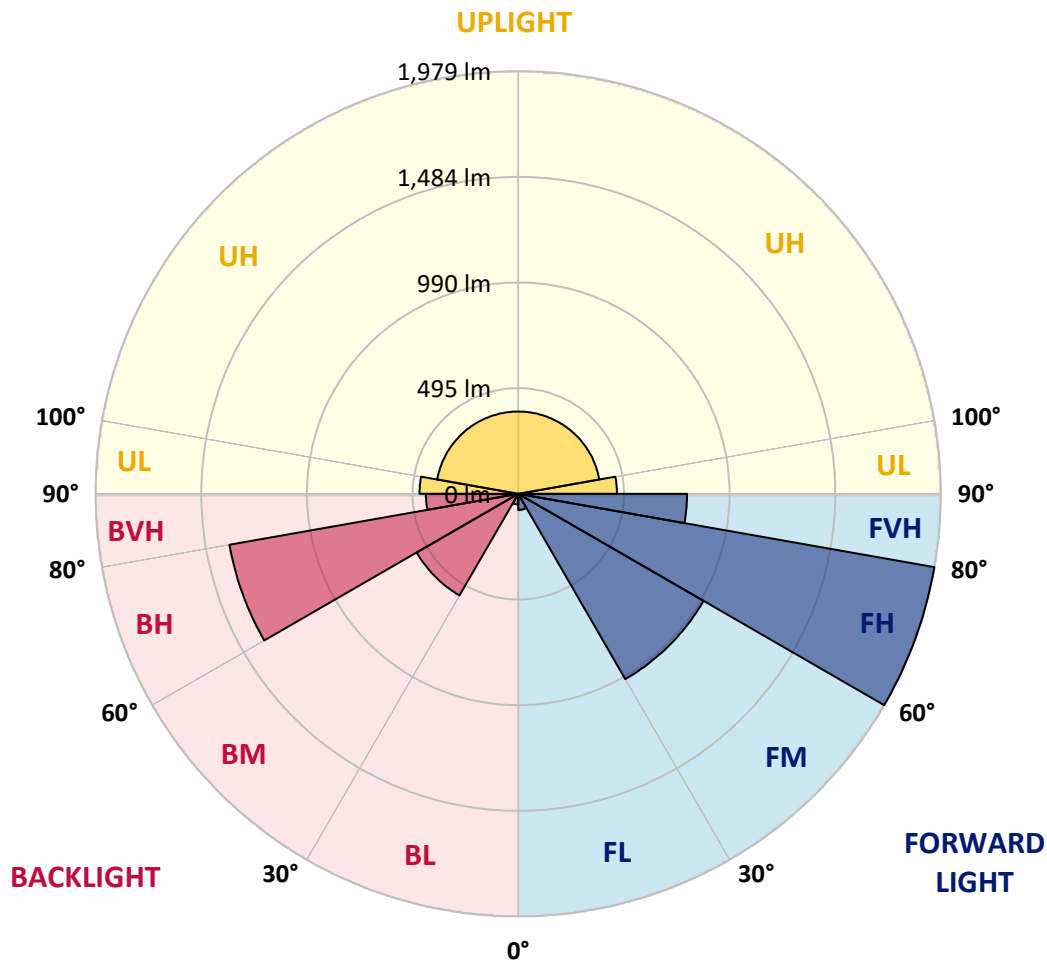


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	76.0	1.1			
FM (30°-60°)	1001.9	13.9			
FH (60°-80°)	1979.0	27.4			G2/5000
FVH (80°-90°)	790.3	11.0			G5
BL (0°-30°)	49.8	0.7	B0/110		
BM (30°-60°)	549.2	7.6	B1/1000		
BH (60°-80°)	1373.3	19.0	B3/2500		G3/2500
BVH (80°-90°)	432.4	6.0			G3/500
UL (90°-100°)	462.3	6.4		U3/500	
UH (100°-180°)	385.1	5.3		U3/500	

BUG Rating: B3-U3-G5
 Type III Short





REPORT NUMBER: P588448
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2
2.5°	63.6	61.7	59.8	59.8	58.9	58.0	58.0	56.1	57.0	56.1	56.1
5°	74.8	73.9	72.0	72.9	71.1	70.1	70.1	69.2	68.2	67.3	64.5
7.5°	86.9	86.9	87.9	88.8	86.0	83.2	82.3	80.4	80.4	79.5	77.6
10°	100.0	99.1	95.4	95.4	93.5	91.6	92.6	91.6	91.6	91.6	87.9
12.5°	103.8	102.8	100.0	100.0	100.0	99.1	102.8	101.9	102.8	101.9	96.3
15°	116.9	115.9	115.0	115.9	119.7	127.1	136.5	132.8	133.7	131.8	111.3
17.5°	122.5	125.3	127.1	128.1	131.8	131.8	133.7	132.8	136.5	139.3	127.1
20°	142.1	140.2	142.1	148.6	158.0	158.9	156.1	156.1	158.0	158.9	135.6
22.5°	150.5	149.6	157.1	151.5	151.5	156.1	173.0	167.3	167.3	165.5	145.8
25°	195.4	199.1	206.6	216.0	238.4	244.9	263.6	243.1	245.9	216.9	185.1
27.5°	234.7	237.5	281.4	320.7	338.4	329.1	345.0	306.6	310.4	314.1	270.2
30°	246.8	252.4	316.0	345.0	368.3	349.7	370.2	319.7	316.9	338.4	320.7
32.5°	237.5	243.1	310.4	322.5	346.8	416.0	389.9	308.5	300.1	310.4	331.9
35°	260.8	264.6	304.8	275.8	298.2	581.5	510.5	359.9	343.1	286.1	317.9
37.5°	313.2	313.2	360.9	381.4	398.3	686.2	670.3	447.8	434.7	334.7	367.4
40°	379.6	377.7	436.6	450.6	458.1	621.7	810.6	571.2	542.2	393.6	478.7
42.5°	419.8	416.0	463.7	478.7	478.7	526.3	917.1	695.6	628.2	459.0	585.2
45°	435.7	439.4	501.1	482.4	496.4	540.4	1031.2	867.6	773.2	538.5	678.7
47.5°	394.5	400.1	489.0	490.8	419.8	431.9	924.6	901.2	823.6	576.8	708.7
50°	484.3	488.0	519.8	498.3	463.7	546.9	1101.3	1158.3	1124.7	714.3	747.9
52.5°	664.7	681.5	711.5	730.2	719.9	919.0	1477.1	1466.9	1438.8	1072.3	1020.9
55°	861.0	875.1	917.1	1030.3	1116.3	1376.2	1837.1	2052.1	2050.2	1741.7	1591.2
57.5°	1039.6	1040.5	1046.1	1185.4	1318.2	1796.9	2406.4	3196.4	3267.5	2782.2	2278.3
60°	1194.8	1192.0	1144.3	1268.7	1430.4	2227.9	3102.0	4147.2	4161.2	3537.6	2642.9
62.5°	1236.9	1228.5	1159.3	1275.2	1413.6	2236.3	3279.6	4034.1	4018.2	3590.9	2690.6
65°	1200.4	1192.0	1104.1	1207.9	1273.3	2032.5	3029.1	3469.4	3443.2	3280.5	2561.6
67.5°	1146.2	1151.8	1064.8	1144.3	1189.2	1906.3	2765.4	2985.1	2977.6	3057.1	2454.1
70°	1067.7	1072.3	992.9	1091.0	1156.5	1825.9	2513.0	2751.4	2738.3	2855.2	2296.1
72.5°	1070.5	1084.5	990.1	1063.9	1132.2	1715.5	2398.9	2671.0	2632.7	2650.4	2106.3
75°	1077.9	1096.6	996.6	1063.0	1126.5	1675.3	2385.9	2677.5	2628.9	2576.6	2034.3
77.5°	1080.7	1107.9	1000.3	1073.3	1128.4	1620.2	2355.9	2644.8	2599.0	2505.5	1949.3
80°	1058.3	1087.3	984.4	1074.2	1116.3	1510.8	2280.2	2639.2	2604.6	2496.2	1914.7
82.5°	1013.4	1042.4	953.6	1027.4	1092.9	1399.5	2173.6	2529.8	2528.0	2406.4	1841.7
85°	915.3	947.0	879.7	948.0	1028.4	1251.8	1958.6	2343.8	2395.2	2297.0	1743.6
87.5°	820.8	852.6	817.1	855.4	936.8	1088.2	1682.8	2023.1	2119.4	2038.1	1497.7
90°	713.3	746.0	717.1	702.1	767.5	868.5	1345.3	1573.4	1664.1	1614.6	1102.2
92.5°	571.2	599.3	572.2	537.6	576.8	637.6	999.4	1101.3	1122.8	1075.1	722.7
95°	431.9	452.5	428.2	393.6	398.3	436.6	689.0	721.7	716.1	659.1	459.0
97.5°	300.1	312.3	296.4	272.1	280.5	304.8	456.2	452.5	452.5	402.9	300.1
100°	208.5	213.2	205.7	194.5	201.0	216.9	306.6	305.7	296.4	272.1	218.8
102.5°	165.5	166.4	158.9	151.5	147.7	162.7	221.6	220.6	222.5	211.3	171.1
105°	145.8	144.9	138.4	131.8	124.3	139.3	175.8	183.2	182.3	173.0	146.8
107.5°	133.7	132.8	126.2	120.6	114.1	127.1	152.4	162.7	161.7	160.8	138.4
110°	124.3	123.4	117.8	112.2	106.6	121.5	143.0	158.9	158.9	158.9	140.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
112.5°	117.8	117.8	113.1	108.4	103.8	120.6	137.4	156.1	156.1	160.8	146.8
115°	114.1	113.1	109.4	106.6	102.8	121.5	135.6	154.3	155.2	161.7	145.8
117.5°	111.3	110.3	107.5	103.8	101.9	119.7	136.5	158.0	157.1	167.3	143.0
120°	106.6	104.7	101.0	97.2	95.4	110.3	132.8	153.3	151.5	156.1	131.8
122.5°	102.8	97.2	90.7	87.9	87.9	100.0	124.3	138.4	136.5	132.8	118.7
125°	94.4	88.8	83.2	82.3	83.2	93.5	118.7	127.1	128.1	125.3	112.2
127.5°	85.1	81.3	78.5	78.5	80.4	91.6	116.9	122.5	122.5	116.9	106.6
130°	80.4	79.5	77.6	77.6	81.3	92.6	114.1	115.9	115.9	108.4	103.8
132.5°	78.5	76.7	74.8	74.8	78.5	89.7	106.6	110.3	109.4	101.9	98.2
135°	74.8	73.9	72.0	72.0	76.7	87.9	100.0	103.8	102.8	93.5	90.7
137.5°	72.9	71.1	71.1	71.1	75.7	86.9	94.4	97.2	96.3	86.9	84.1
140°	70.1	69.2	67.3	67.3	73.9	84.1	88.8	89.7	88.8	81.3	78.5
142.5°	65.4	64.5	63.6	65.4	72.0	79.5	83.2	83.2	82.3	77.6	73.9
145°	62.6	61.7	60.8	65.4	71.1	74.8	78.5	75.7	75.7	72.9	69.2
147.5°	59.8	58.9	58.9	62.6	67.3	67.3	70.1	69.2	70.1	69.2	65.4
150°	54.2	53.3	53.3	56.1	57.0	57.0	59.8	59.8	59.8	59.8	57.0
152.5°	47.7	46.7	47.7	48.6	48.6	48.6	50.5	51.4	51.4	50.5	49.5
155°	41.1	41.1	41.1	42.1	42.1	41.1	43.9	43.9	43.9	43.9	43.0
157.5°	36.5	36.5	36.5	36.5	36.5	35.5	37.4	37.4	38.3	37.4	37.4
160°	31.8	30.9	30.9	30.9	30.9	29.9	30.9	30.9	30.9	31.8	31.8
162.5°	25.2	24.3	24.3	24.3	24.3	22.4	24.3	23.4	24.3	24.3	25.2
165°	20.6	19.6	19.6	19.6	18.7	17.8	18.7	17.8	17.8	17.8	18.7
167.5°	15.9	15.9	15.0	15.9	15.0	13.1	13.1	12.2	12.2	12.2	12.2
170°	12.2	11.2	10.3	11.2	10.3	8.4	8.4	7.5	7.5	6.5	6.5
172.5°	8.4	7.5	6.5	7.5	6.5	4.7	4.7	2.8	2.8	2.8	2.8
175°	7.5	6.5	5.6	6.5	5.6	3.7	2.8	1.9	1.9	1.9	1.9
177.5°	7.5	6.5	5.6	6.5	5.6	3.7	2.8	1.9	1.9	1.9	1.9
180°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2
2.5°	56.1	55.2	54.2	56.1	55.2	56.1	57.0	58.0	58.0	57.0	57.0
5°	64.5	63.6	61.7	60.8	58.9	58.9	58.9	60.8	60.8	59.8	60.8
7.5°	76.7	74.8	72.0	70.1	67.3	67.3	66.4	68.2	69.2	67.3	68.2
10°	86.0	85.1	81.3	78.5	75.7	74.8	74.8	75.7	75.7	74.8	74.8
12.5°	94.4	92.6	88.8	86.0	82.3	81.3	81.3	82.3	82.3	81.3	81.3
15°	106.6	101.0	97.2	94.4	90.7	89.7	88.8	89.7	90.7	88.8	88.8
17.5°	123.4	116.9	108.4	101.0	97.2	99.1	100.0	101.0	100.0	97.2	97.2
20°	132.8	129.0	117.8	112.2	107.5	107.5	107.5	107.5	107.5	106.6	107.5
22.5°	139.3	133.7	119.7	115.9	113.1	115.0	116.9	117.8	117.8	116.9	116.9
25°	169.2	148.6	134.6	131.8	128.1	129.0	127.1	127.1	128.1	127.1	129.0
27.5°	232.8	199.1	167.3	156.1	153.3	153.3	155.2	155.2	155.2	155.2	154.3
30°	279.5	240.3	187.9	173.0	171.1	179.5	184.2	187.9	186.0	183.2	183.2
32.5°	287.0	244.0	191.7	186.0	190.7	197.3	201.9	204.7	207.5	206.6	205.7
35°	271.1	225.3	188.8	196.3	200.1	203.8	204.7	202.9	211.3	215.0	216.0
37.5°	302.9	252.4	219.7	225.3	220.6	216.9	218.8	219.7	230.9	236.5	242.1
40°	387.0	304.8	249.6	246.8	244.0	252.4	263.6	269.2	268.3	264.6	265.5
42.5°	468.4	356.2	281.4	280.5	279.5	294.5	312.3	311.3	302.9	296.4	296.4
45°	551.6	405.7	331.9	332.8	331.0	336.6	341.2	337.5	338.4	340.3	342.2
47.5°	603.0	450.6	363.7	360.9	348.7	359.9	373.0	364.6	361.8	357.1	359.0
50°	615.2	461.8	382.4	402.9	391.7	383.3	369.3	363.7	374.0	381.4	387.0
52.5°	799.3	570.3	477.7	510.5	495.5	465.6	462.8	453.4	464.6	465.6	472.1
55°	1339.7	914.3	658.2	690.0	690.9	680.6	727.3	701.2	677.8	667.5	663.8
57.5°	2111.9	1413.6	851.7	891.9	930.2	966.7	1030.3	977.0	909.7	901.2	910.6
60°	2704.7	1996.0	1086.3	1199.5	1250.9	1252.8	1261.2	1208.8	1167.7	1171.4	1184.5
62.5°	2831.8	2482.1	1383.6	1430.4	1435.1	1400.5	1415.4	1449.1	1391.1	1345.3	1357.5
65°	2746.7	2674.7	1480.9	1359.3	1351.9	1357.5	1459.4	1552.9	1436.0	1320.1	1320.1
67.5°	2582.2	2528.0	1381.8	1222.8	1243.4	1307.0	1436.0	1482.7	1358.4	1235.0	1235.0
70°	2406.4	2298.0	1270.5	1114.4	1164.9	1238.7	1322.9	1326.6	1253.7	1165.8	1160.2
72.5°	2216.6	2118.5	1222.8	1082.6	1106.0	1119.1	1164.9	1193.9	1185.4	1128.4	1127.5
75°	2160.5	2081.1	1221.9	1067.7	1053.6	1049.0	1080.7	1143.4	1172.4	1138.7	1140.6
77.5°	2075.5	2027.8	1164.9	1005.0	990.1	990.1	1006.9	1057.4	1101.3	1087.3	1092.0
80°	2016.6	1944.6	1077.9	936.8	916.2	919.0	920.9	955.5	996.6	998.5	998.5
82.5°	1903.4	1767.9	946.1	834.9	820.8	824.6	818.0	837.7	848.9	862.9	860.1
85°	1717.4	1525.7	799.3	723.6	701.2	693.7	688.1	689.0	695.6	692.8	681.5
87.5°	1438.8	1209.8	637.6	593.7	567.5	548.8	541.3	532.0	531.0	520.7	524.5
90°	1062.0	830.2	473.1	457.2	438.5	418.8	408.5	399.2	391.7	381.4	377.7
92.5°	692.8	534.8	345.9	337.5	325.3	314.1	309.5	304.8	302.9	294.5	297.3
95°	432.9	361.8	259.9	250.6	244.0	241.2	242.1	243.1	241.2	231.9	234.7
97.5°	288.9	261.8	202.9	196.3	189.8	188.8	189.8	191.7	192.6	186.0	187.9
100°	213.2	201.0	166.4	161.7	156.1	154.3	155.2	157.1	158.0	152.4	153.3
102.5°	169.2	163.6	144.0	142.1	135.6	133.7	135.6	136.5	137.4	133.7	133.7
105°	148.6	148.6	132.8	131.8	127.1	125.3	126.2	127.1	128.1	124.3	124.3
107.5°	143.0	144.0	128.1	129.0	126.2	125.3	127.1	129.0	128.1	125.3	124.3
110°	147.7	149.6	128.1	130.9	131.8	133.7	137.4	138.4	138.4	136.5	137.4



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	152.4	155.2	126.2	132.8	139.3	144.0	150.5	154.3	152.4	151.5	152.4
115°	148.6	150.5	117.8	128.1	140.2	146.8	148.6	148.6	144.0	144.0	144.9
117.5°	144.0	147.7	109.4	117.8	126.2	131.8	130.9	128.1	122.5	120.6	126.2
120°	133.7	144.9	104.7	106.6	107.5	109.4	106.6	103.8	99.1	98.2	101.9
122.5°	123.4	133.7	96.3	94.4	93.5	93.5	92.6	91.6	88.8	89.7	93.5
125°	115.0	120.6	87.9	85.1	84.1	85.1	85.1	85.1	83.2	81.3	81.3
127.5°	108.4	110.3	83.2	79.5	78.5	78.5	78.5	79.5	78.5	75.7	75.7
130°	104.7	103.8	80.4	73.9	72.9	73.9	73.9	74.8	72.9	71.1	71.1
132.5°	97.2	95.4	76.7	70.1	69.2	70.1	70.1	70.1	68.2	66.4	66.4
135°	88.8	86.9	72.0	65.4	64.5	65.4	65.4	66.4	64.5	62.6	62.6
137.5°	82.3	80.4	67.3	61.7	60.8	60.8	61.7	61.7	60.8	58.9	58.9
140°	76.7	74.8	62.6	58.0	56.1	57.0	57.0	57.0	56.1	54.2	54.2
142.5°	72.0	71.1	58.0	53.3	51.4	52.4	52.4	53.3	51.4	49.5	49.5
145°	68.2	66.4	54.2	48.6	47.7	47.7	47.7	48.6	46.7	44.9	44.9
147.5°	64.5	62.6	49.5	43.9	43.0	43.0	43.0	43.0	42.1	40.2	39.3
150°	57.0	56.1	45.8	40.2	38.3	38.3	38.3	37.4	35.5	33.7	33.7
152.5°	48.6	47.7	40.2	35.5	33.7	33.7	32.7	32.7	30.9	29.9	29.0
155°	42.1	42.1	36.5	31.8	29.9	29.0	28.0	28.0	27.1	26.2	25.2
157.5°	37.4	36.5	32.7	29.0	25.2	25.2	24.3	24.3	23.4	22.4	21.5
160°	31.8	31.8	28.0	24.3	21.5	20.6	20.6	19.6	18.7	17.8	17.8
162.5°	25.2	25.2	22.4	19.6	16.8	16.8	15.9	15.9	15.0	14.0	13.1
165°	17.8	17.8	16.8	15.0	13.1	12.2	12.2	12.2	11.2	10.3	10.3
167.5°	12.2	12.2	11.2	10.3	9.3	8.4	9.3	9.3	8.4	7.5	7.5
170°	6.5	6.5	5.6	5.6	4.7	4.7	5.6	6.5	5.6	4.7	3.7
172.5°	2.8	2.8	2.8	2.8	1.9	2.8	3.7	4.7	3.7	2.8	2.8
175°	1.9	1.9	2.8	2.8	1.9	2.8	3.7	4.7	3.7	2.8	2.8
177.5°	1.9	1.9	2.8	2.8	1.9	2.8	3.7	4.7	3.7	2.8	2.8
180°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7

(END OF REPORT)