

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: P588447

Luminaire Tested: **GAT-CA6-LED-50-727-U-33-5-6-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588447
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2107-308-14)
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-33-5-6-X
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE III REFRACTOR
Light Source: (6) 2700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4891 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - U3 - G3

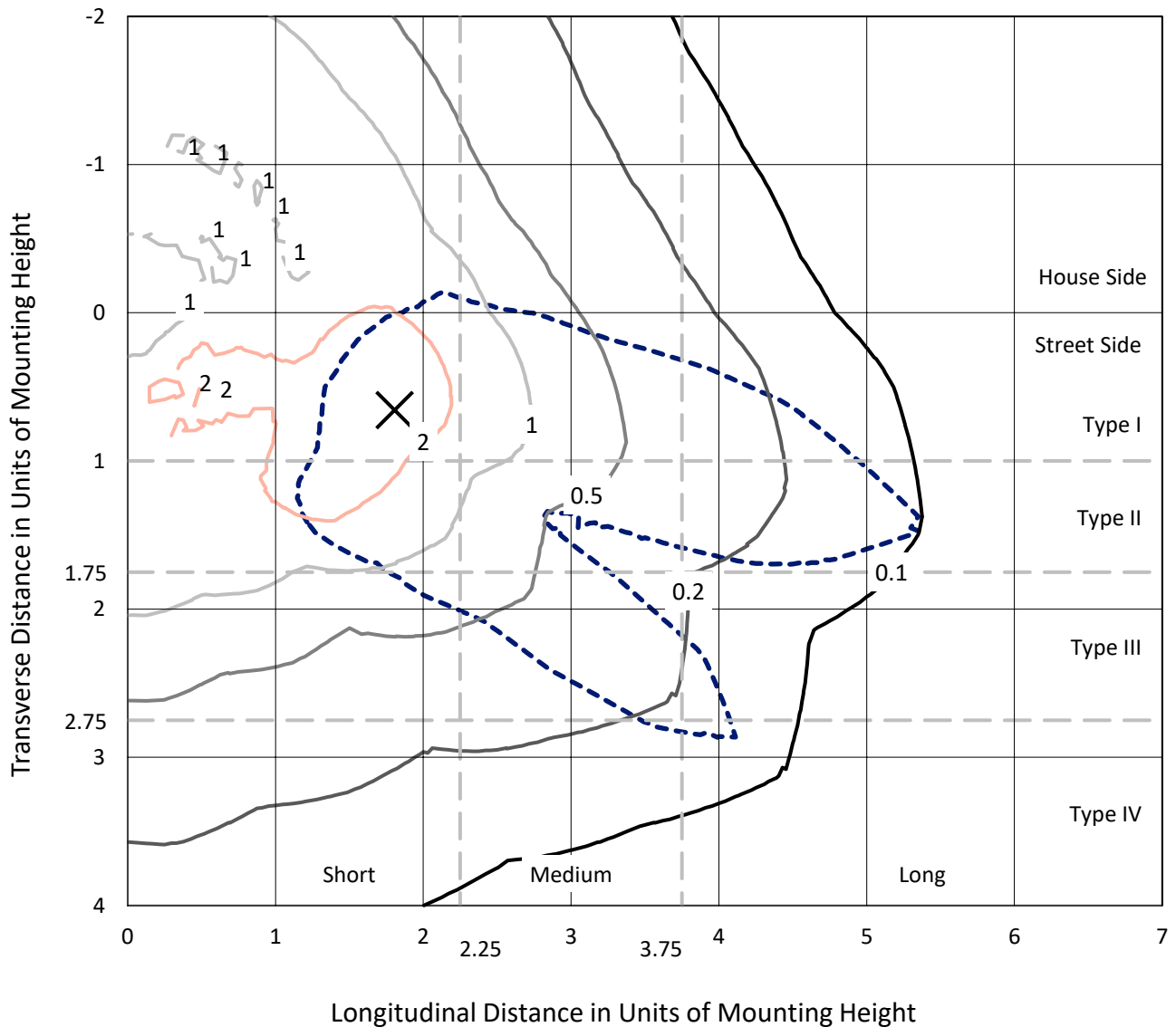
Input Watts (W): 54
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

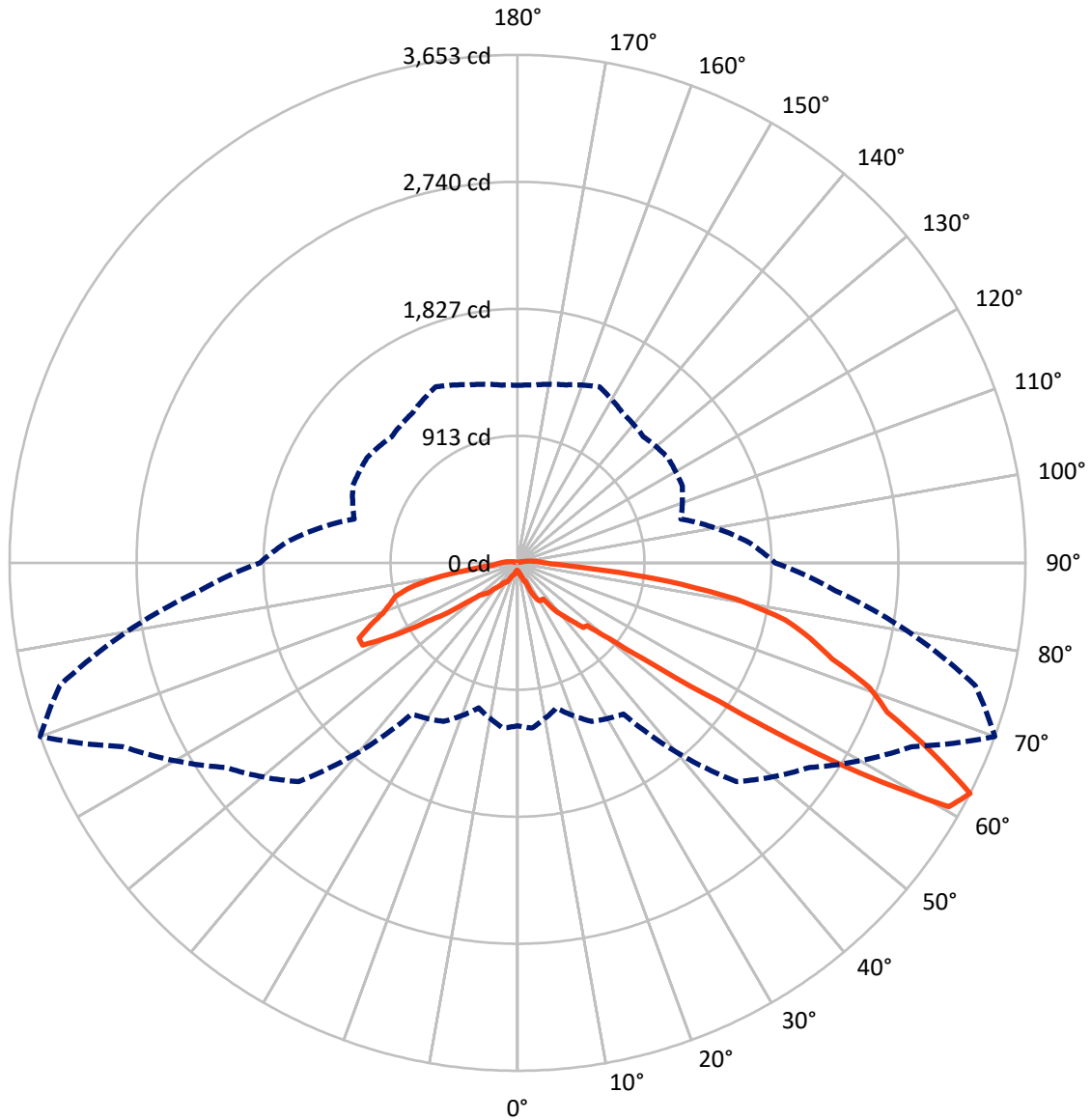
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.3 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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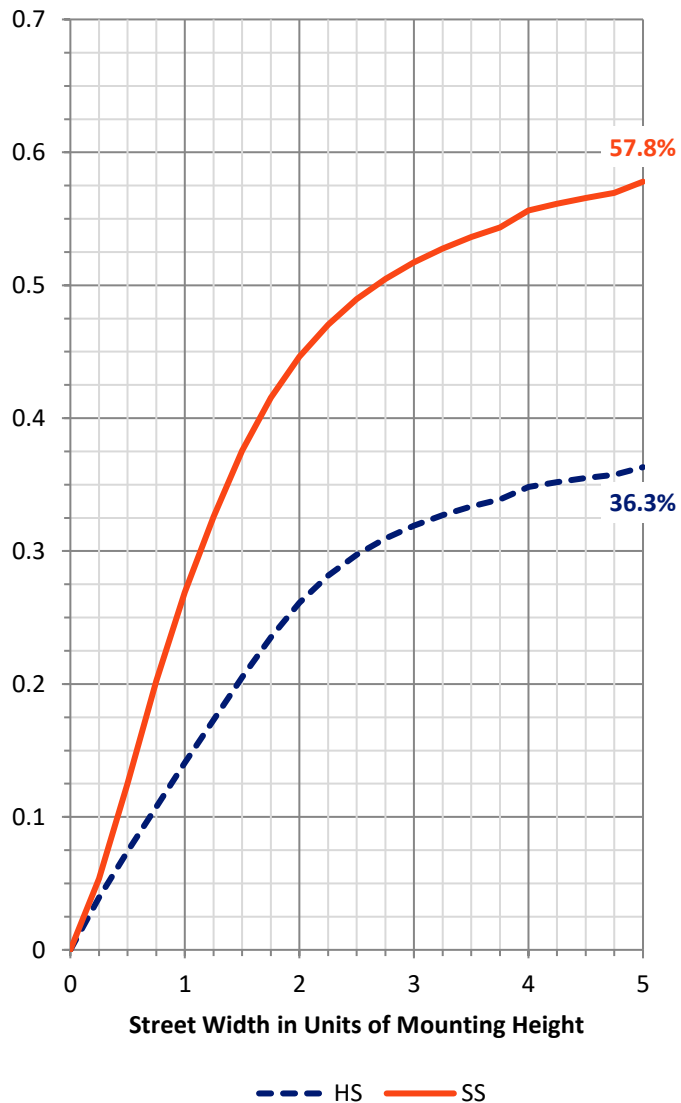
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1812.7	66.5	1879.2
	% Fixture	37.1	1.4	38.4
Street Side	Lumens	2920.5	91.3	3011.8
	% Fixture	59.7	1.9	61.6
Total	Lumens	4733.2	157.8	4891.0
	% Fixture	96.8	3.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.2	0.1
10°-20°	26.6	0.5
20°-30°	82.5	1.7
30°-40°	177.0	3.6
40°-50°	331.5	6.8
50°-60°	860.3	17.6
60°-70°	1575.9	32.2
70°-80°	1264.0	25.8
80°-90°	409.3	8.4
90°-100°	107.9	2.2
100°-110°	35.1	0.7
110°-120°	13.8	0.3
120°-130°	1.1	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°	4733.2	96.8
0°-180°	4891.0	100.0

Coefficient of Utilization



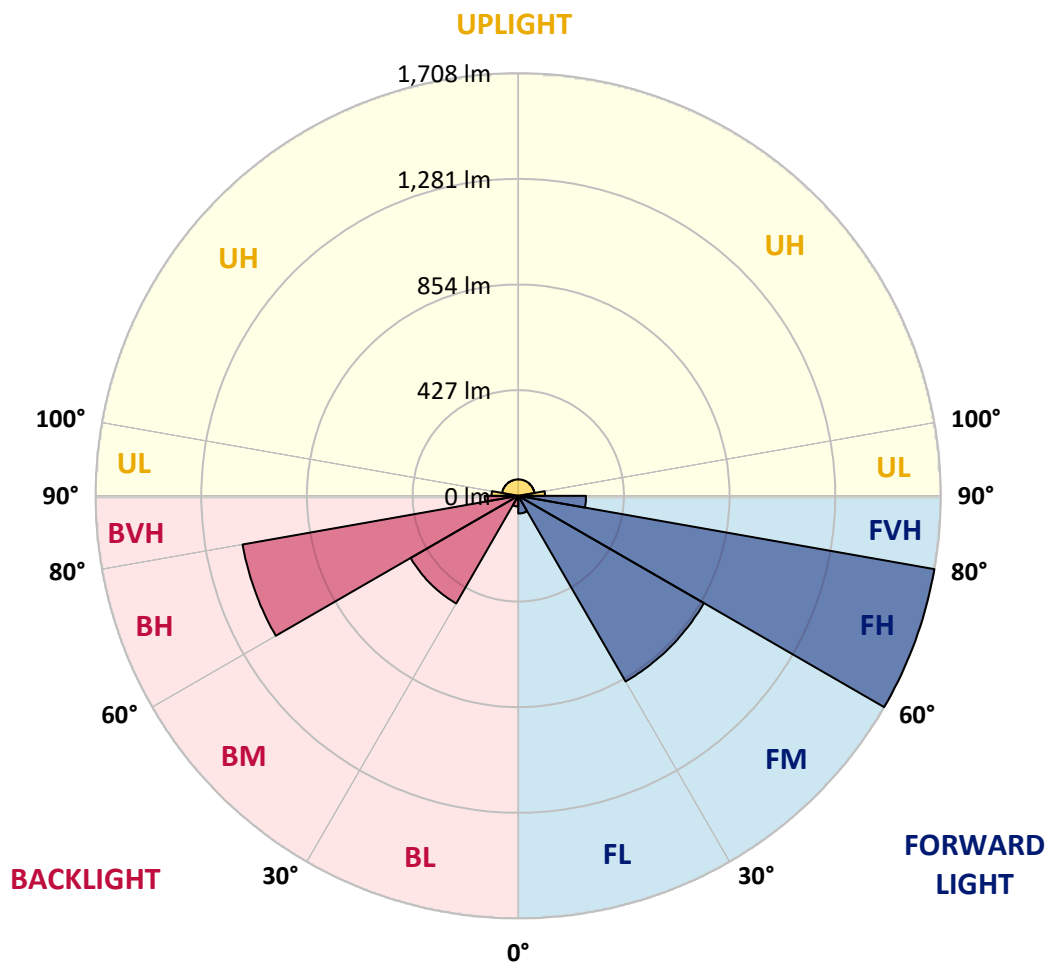
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	71.8	1.5			
FM (30°-60°)	866.6	17.7			
FH (60°-80°)	1708.3	34.9			G1/1800
FVH (80°-90°)	273.8	5.6			G3/500
BL (0°-30°)	43.5	0.9	B0/110		
BM (30°-60°)	502.1	10.3	B1/1000		
BH (60°-80°)	1131.6	23.1	B3/2500		G3/2500
BVH (80°-90°)	135.5	2.8			G2/225
UL (90°-100°)	107.9	2.2		U3/500	
UH (100°-180°)	66.5	1.4		U3/500	

BUG Rating: B3-U3-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
2.5°	62.6	62.6	62.6	61.7	60.8	59.8	58.9	58.9	58.0	57.0	56.1
5°	68.3	67.3	66.4	64.5	63.6	63.6	62.6	62.6	62.6	61.7	60.8
7.5°	75.7	75.7	74.8	73.9	72.9	72.0	71.1	70.1	70.1	69.2	68.3
10°	86.0	86.0	86.0	85.1	85.1	84.2	82.3	81.3	79.5	78.5	75.7
12.5°	96.3	97.2	95.4	95.4	95.4	94.4	92.6	91.6	89.8	87.9	84.2
15°	106.6	105.7	104.7	103.8	105.7	105.7	104.7	104.7	101.0	98.2	91.6
17.5°	115.9	115.9	116.9	116.9	119.7	118.7	118.7	117.8	115.9	111.3	102.9
20°	130.9	131.8	131.8	131.8	141.2	144.9	145.9	146.8	144.0	134.6	117.8
22.5°	145.9	146.8	153.3	151.5	151.5	151.5	160.8	156.1	144.0	132.8	123.4
25°	197.3	200.1	202.0	208.5	216.0	236.6	269.3	259.0	240.3	202.0	170.2
27.5°	246.8	250.6	284.2	331.0	337.5	313.2	336.6	305.7	296.4	257.1	230.9
30°	269.3	275.8	333.8	365.6	376.8	345.0	378.7	319.8	317.0	288.9	266.5
32.5°	274.9	279.6	343.1	346.9	349.7	346.0	396.4	324.4	317.9	289.9	257.1
35°	266.5	272.1	315.1	293.6	294.5	360.9	455.3	349.7	319.8	271.2	234.7
37.5°	328.2	328.2	364.7	370.3	394.6	475.0	596.5	461.9	428.2	353.4	308.6
40°	374.0	378.7	436.6	458.2	461.9	530.1	747.1	541.4	493.7	395.5	360.9
42.5°	435.7	434.8	488.1	503.0	513.3	538.6	763.9	622.7	566.6	447.9	421.7
45°	446.0	461.0	509.6	492.7	505.8	570.4	797.6	737.7	662.9	547.0	492.7
47.5°	404.9	425.4	523.6	509.6	457.2	487.1	639.5	757.4	675.1	561.9	523.6
50°	436.6	447.9	496.5	487.1	417.0	518.0	702.2	949.0	857.4	668.5	570.4
52.5°	564.7	589.1	597.5	633.9	600.3	775.1	982.7	1202.4	1190.3	967.7	752.7
55°	725.6	761.1	798.5	936.9	956.5	1217.4	1371.7	1606.3	1752.2	1530.6	1154.7
57.5°	899.5	950.0	937.8	1138.8	1169.7	1649.3	1791.5	2341.2	2731.1	2430.1	1691.4
60°	1067.8	1101.4	1033.2	1209.9	1268.8	2076.6	2285.1	3049.0	3562.4	3241.7	2083.2
62.5°	1171.6	1193.1	1080.9	1258.5	1327.7	2225.3	2564.7	3128.5	3653.1	3409.0	2295.4
65°	1170.6	1165.0	1036.9	1191.2	1181.8	2054.2	2478.7	2629.2	3263.2	3222.0	2322.5
67.5°	1124.8	1126.7	992.0	1114.5	1076.2	1811.1	2296.4	2224.4	2868.6	2923.8	2259.0
70°	1080.9	1103.3	975.2	1081.8	1064.0	1741.9	2216.9	2001.8	2683.5	2788.2	2191.6
72.5°	1019.2	1040.7	920.0	1013.5	1020.1	1603.5	2081.3	1747.5	2366.5	2492.7	1964.4
75°	1018.2	1045.3	932.2	1014.5	1024.8	1525.0	2098.1	1659.6	2176.7	2345.9	1833.5
77.5°	960.2	984.6	879.8	956.5	985.5	1380.1	2001.8	1550.2	1966.3	2156.1	1662.4
80°	771.4	804.1	718.1	768.6	784.5	1035.0	1605.4	1269.7	1599.8	1789.6	1358.6
82.5°	527.3	557.3	500.2	537.6	558.2	678.8	1109.8	914.4	1087.4	1203.3	850.9
85°	304.8	340.3	306.7	302.0	312.3	358.1	597.5	486.2	505.8	532.0	377.7
87.5°	191.7	197.3	180.5	181.4	183.3	196.4	272.1	216.9	239.4	271.2	229.1
90°	152.4	158.0	145.9	146.8	144.0	156.1	203.8	165.5	184.2	212.2	181.4
92.5°	131.8	135.6	127.2	129.0	127.2	136.5	170.2	136.5	151.5	173.9	148.7
95°	112.2	115.0	110.3	111.3	105.7	111.3	132.8	103.8	115.0	130.9	111.3
97.5°	89.8	92.6	89.8	89.8	84.2	87.0	101.9	80.4	87.9	98.2	84.2
100°	71.1	72.0	71.1	70.1	65.5	65.5	71.1	58.0	60.8	67.3	58.0
102.5°	54.2	55.2	54.2	53.3	47.7	44.9	44.9	37.4	39.3	41.1	36.5
105°	43.0	43.9	43.0	41.1	36.5	33.7	32.7	27.1	27.1	28.1	25.2
107.5°	35.5	35.5	35.5	33.7	30.9	27.1	24.3	19.6	19.6	20.6	19.6
110°	29.0	29.0	28.1	27.1	24.3	21.5	18.7	15.9	15.9	15.9	15.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	24.3	24.3	23.4	22.4	19.6	16.8	15.0	13.1	13.1	13.1	12.2
115°	20.6	20.6	19.6	18.7	16.8	14.0	12.2	10.3	10.3	10.3	10.3
117.5°	17.8	17.8	16.8	15.9	14.0	12.2	10.3	8.4	8.4	8.4	8.4
120°	15.9	15.0	14.0	13.1	11.2	10.3	8.4	7.5	7.5	7.5	6.5
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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°	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
2.5°	56.1	56.1	55.2	55.2	55.2	54.2	54.2	55.2	55.2	55.2	55.2
5°	59.8	58.9	57.0	55.2	54.2	53.3	52.4	52.4	54.2	54.2	54.2
7.5°	67.3	66.4	63.6	61.7	59.8	58.0	57.0	56.1	57.0	58.0	58.0
10°	74.8	73.9	70.1	67.3	66.4	64.5	63.6	62.6	63.6	63.6	63.6
12.5°	82.3	80.4	77.6	73.9	72.0	71.1	70.1	69.2	69.2	69.2	69.2
15°	88.8	86.0	83.2	80.4	78.5	76.7	75.7	74.8	75.7	76.7	76.7
17.5°	99.1	96.3	89.8	85.1	84.2	82.3	81.3	81.3	82.3	83.2	83.2
20°	110.3	104.7	97.2	92.6	91.6	88.8	87.9	87.9	88.8	89.8	89.8
22.5°	119.7	115.9	104.7	98.2	97.2	96.3	97.2	97.2	98.2	99.1	99.1
25°	152.4	137.4	121.6	116.9	115.9	114.1	112.2	111.3	112.2	115.0	115.9
27.5°	205.7	178.6	148.7	138.4	138.4	140.3	144.0	145.9	142.1	140.3	141.2
30°	241.2	204.8	161.8	152.4	154.3	163.6	172.0	177.7	173.9	171.1	172.0
32.5°	231.9	198.2	167.4	165.5	171.1	178.6	183.3	186.1	193.5	196.4	200.1
35°	211.3	186.1	169.2	176.7	180.5	180.5	180.5	180.5	194.5	207.6	211.3
37.5°	258.1	215.1	201.0	203.8	201.0	198.2	201.0	208.5	220.7	230.9	233.8
40°	302.9	248.7	225.3	223.5	222.5	231.9	248.7	261.8	265.5	256.2	258.1
42.5°	352.5	281.4	251.5	254.3	261.8	276.8	295.5	295.5	295.5	287.0	289.9
45°	399.2	319.8	302.0	309.5	309.5	317.0	327.3	320.7	329.1	332.9	337.5
47.5°	454.4	371.2	331.9	325.4	326.3	341.3	345.0	342.2	347.8	341.3	341.3
50°	471.2	379.6	348.8	374.0	374.0	357.2	343.1	345.0	360.9	378.7	382.4
52.5°	599.3	470.3	442.3	468.4	479.7	450.7	450.7	454.4	458.2	471.2	475.0
55°	896.7	670.4	586.2	647.0	655.4	673.2	721.8	714.3	671.3	649.8	648.0
57.5°	1340.8	994.8	730.2	816.3	870.5	943.4	979.9	958.4	900.4	880.8	859.3
60°	1713.9	1362.3	946.2	1095.8	1177.2	1189.3	1176.2	1178.1	1134.2	1148.2	1142.6
62.5°	1852.2	1671.8	1216.4	1307.1	1319.3	1281.9	1316.5	1396.0	1324.9	1282.8	1276.3
65°	1893.4	1786.8	1292.2	1233.3	1222.0	1215.5	1352.0	1484.8	1325.8	1227.7	1226.7
67.5°	1852.2	1669.0	1195.9	1098.6	1124.8	1178.1	1355.8	1405.3	1255.7	1147.2	1139.8
70°	1798.9	1479.2	1076.2	992.0	1052.8	1130.4	1243.6	1223.9	1165.0	1068.7	1064.0
72.5°	1605.4	1281.9	999.5	929.4	998.6	1021.0	1077.1	1068.7	1085.5	1024.8	1022.0
75°	1437.1	1177.2	953.7	871.4	905.1	901.3	946.2	956.5	1004.2	978.0	967.7
77.5°	1239.8	1023.8	840.6	745.2	758.3	757.4	778.9	785.4	819.1	820.9	809.7
80°	970.5	802.2	656.4	561.0	562.9	546.0	548.8	547.9	554.5	561.9	551.7
82.5°	557.3	447.9	372.1	311.4	298.3	275.8	271.2	273.0	270.2	268.3	268.3
85°	273.0	212.2	195.4	174.8	167.4	161.8	164.6	170.2	173.0	167.4	164.6
87.5°	184.2	159.0	151.5	143.1	139.3	133.7	137.4	142.1	145.9	141.2	140.3
90°	145.9	126.2	124.4	122.5	119.7	115.0	118.7	124.4	127.2	123.4	121.6
92.5°	117.8	101.9	101.9	101.0	98.2	94.4	99.1	103.8	106.6	103.8	102.9
95°	90.7	78.5	81.3	79.5	76.7	75.7	78.5	82.3	84.2	82.3	82.3
97.5°	70.1	61.7	64.5	63.6	59.8	58.9	60.8	63.6	65.5	63.6	62.6
100°	47.7	43.9	47.7	47.7	43.9	42.1	43.9	46.8	47.7	47.7	46.8
102.5°	31.8	29.9	34.6	35.5	33.7	31.8	32.7	34.6	35.5	35.5	35.5
105°	22.4	22.4	27.1	28.1	26.2	24.3	26.2	27.1	27.1	27.1	27.1
107.5°	17.8	18.7	21.5	23.4	21.5	19.6	20.6	21.5	21.5	21.5	22.4
110°	15.0	15.0	17.8	19.6	17.8	16.8	16.8	16.8	16.8	17.8	19.6



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	12.2	13.1	15.0	15.9	15.0	14.0	14.0	14.0	14.0	15.0	17.8
115°	10.3	11.2	13.1	13.1	12.2	12.2	12.2	11.2	11.2	12.2	16.8
117.5°	8.4	9.4	10.3	10.3	10.3	9.4	9.4	9.4	9.4	11.2	17.8
120°	7.5	7.5	8.4	8.4	7.5	7.5	7.5	7.5	6.5	9.4	14.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)