

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: P588347

Luminaire Tested: **GAT-CA6-LED-100-722-U-33-5-6-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588347
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-100-722-U-33-5-6-X
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE III REFRACTOR
Light Source: (6) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8048 lumens
Efficiency: N/A
Efficacy: 77.6 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

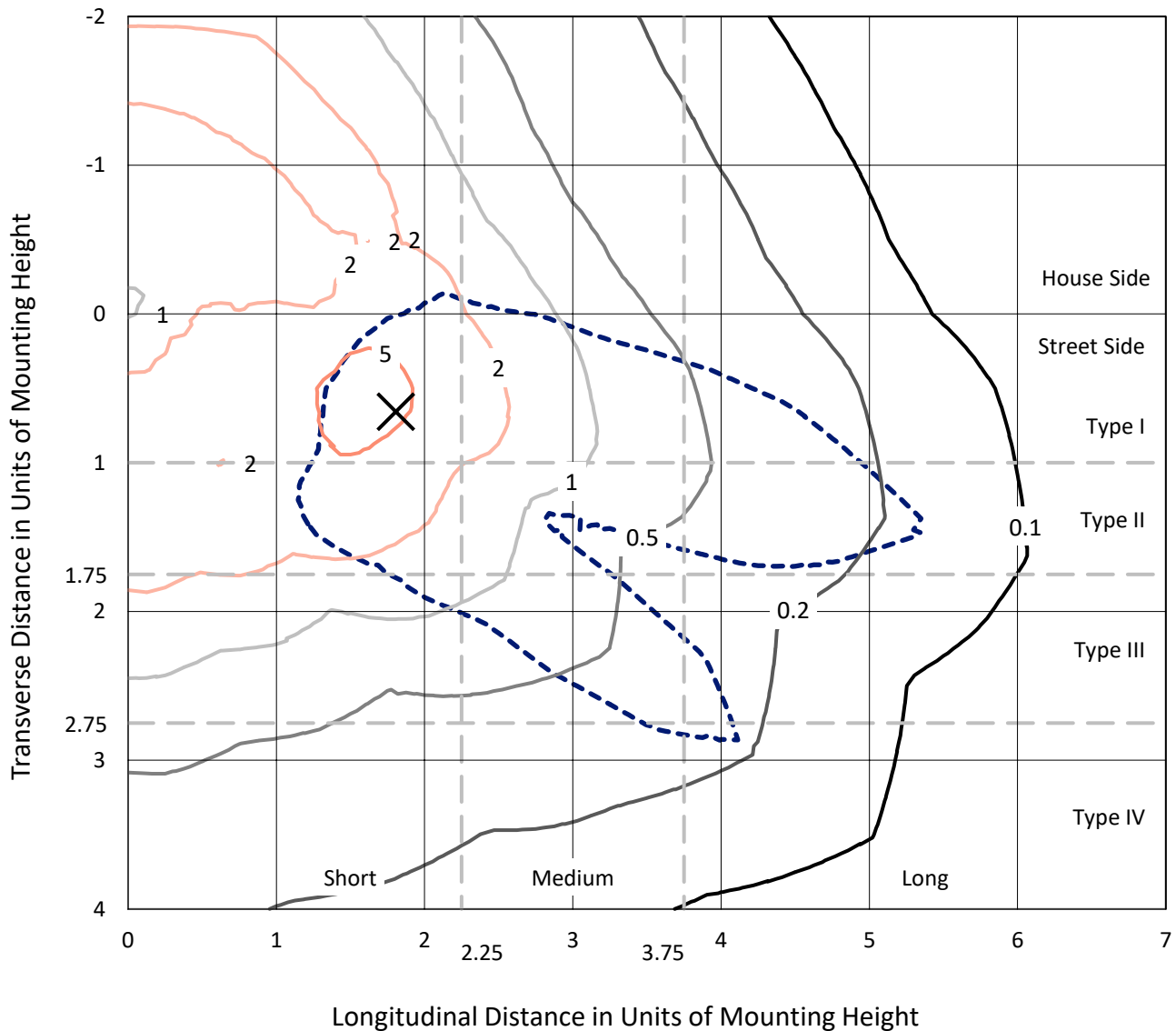
Input Watts (W): 103.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

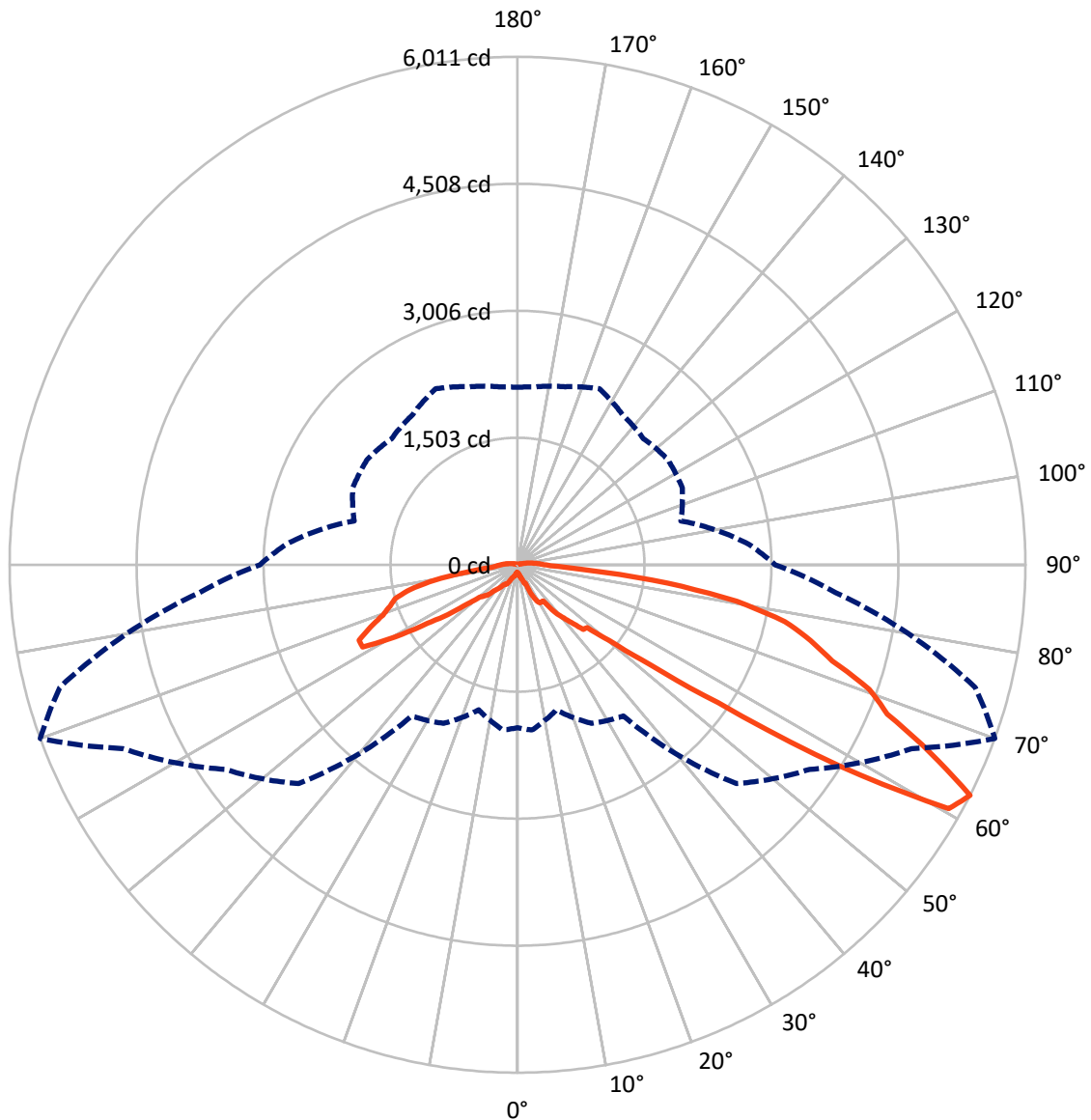
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7 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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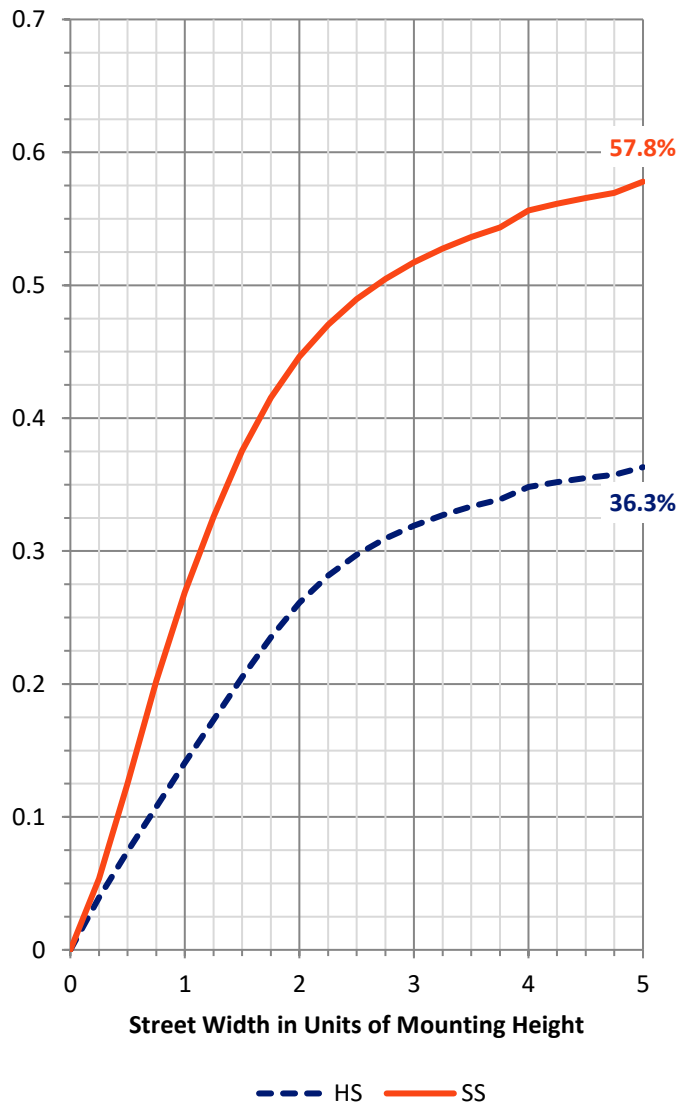
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2982.8	109.3	3092.1
	% Fixture	37.1	1.4	38.4
Street Side	Lumens	4805.6	150.3	4955.9
	% Fixture	59.7	1.9	61.6
Total	Lumens	7788.4	259.6	8048.0
	% Fixture	96.8	3.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.2	0.1
10°-20°	43.8	0.5
20°-30°	135.7	1.7
30°-40°	291.2	3.6
40°-50°	545.5	6.8
50°-60°	1415.6	17.6
60°-70°	2593.1	32.2
70°-80°	2079.9	25.8
80°-90°	673.5	8.4
90°-100°	177.5	2.2
100°-110°	57.7	0.7
110°-120°	22.6	0.3
120°-130°	1.8	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°	7788.4	96.8
0°-180°	8048.0	100.0

Coefficient of Utilization



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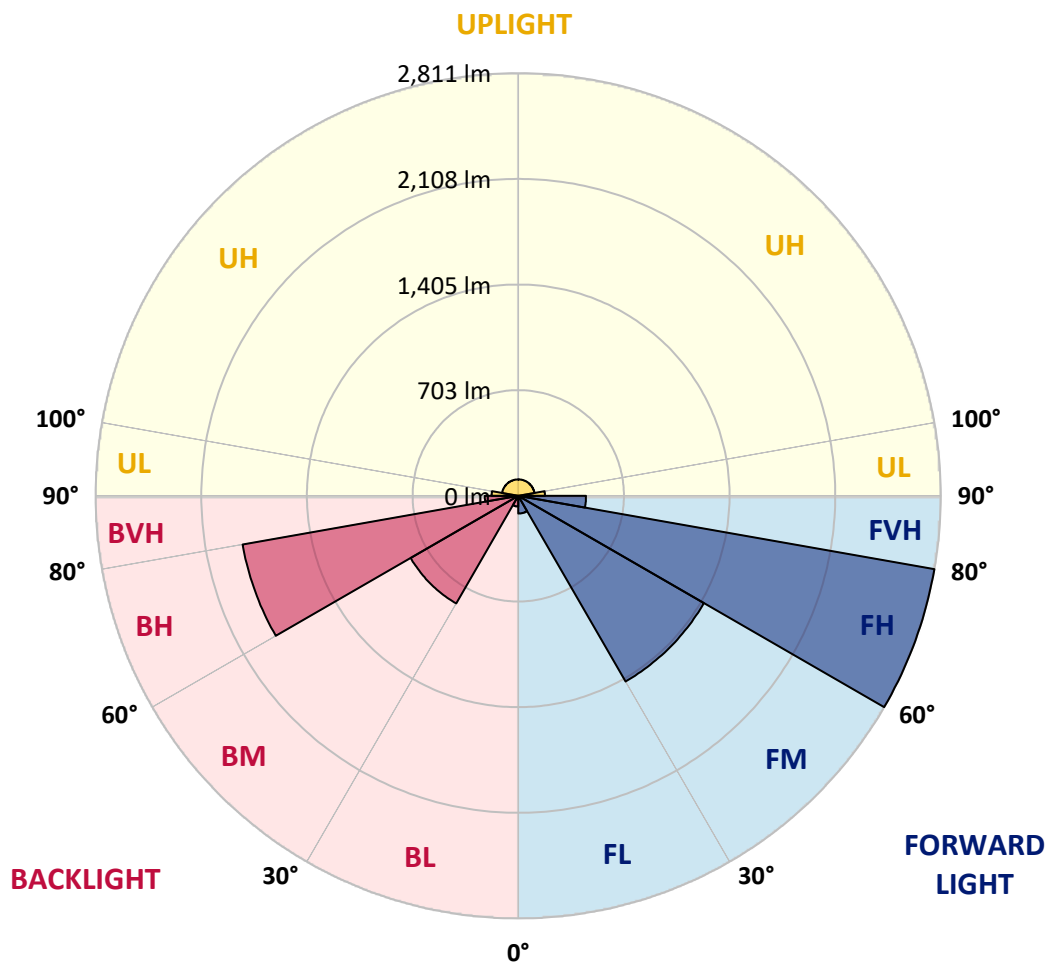
CATALOG NUMBER: GAT-CA6-LED-100-722-U-33-5-6-X

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	118.1	1.5			
FM (30°-60°)	1426.0	17.7			
FH (60°-80°)	2811.0	34.9			G2/5000
FVH (80°-90°)	450.6	5.6			G3/500
BL (0°-30°)	71.6	0.9	B0/110		
BM (30°-60°)	826.2	10.3	B1/1000		
BH (60°-80°)	1862.0	23.1	B3/2500		G3/2500
BVH (80°-90°)	222.9	2.8			G2/225
UL (90°-100°)	177.5	2.2		U3/500	
UH (100°-180°)	109.3	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°	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
2.5°	103.1	103.1	103.1	101.5	100.0	98.5	96.9	96.9	95.4	93.8	92.3
5°	112.3	110.8	109.2	106.2	104.6	104.6	103.1	103.1	103.1	101.5	100.0
7.5°	124.6	124.6	123.1	121.5	120.0	118.5	116.9	115.4	115.4	113.9	112.3
10°	141.5	141.5	141.5	140.0	140.0	138.5	135.4	133.9	130.8	129.2	124.6
12.5°	158.5	160.0	156.9	156.9	156.9	155.4	152.3	150.8	147.7	144.6	138.5
15°	175.4	173.9	172.3	170.8	173.9	173.9	172.3	172.3	166.2	161.5	150.8
17.5°	190.8	190.8	192.3	192.3	196.9	195.4	195.4	193.9	190.8	183.1	169.2
20°	215.4	216.9	216.9	216.9	232.3	238.5	240.0	241.5	236.9	221.5	193.9
22.5°	240.0	241.5	252.3	249.2	249.2	249.2	264.6	256.9	236.9	218.5	203.1
25°	324.6	329.2	332.3	343.1	355.4	389.2	443.1	426.2	395.4	332.3	280.0
27.5°	406.2	412.3	467.7	544.6	555.4	515.4	553.9	503.1	487.7	423.1	380.0
30°	443.1	453.9	549.3	601.6	620.0	567.7	623.1	526.2	521.6	475.4	438.5
32.5°	452.3	460.0	564.6	570.8	575.4	569.3	652.3	533.9	523.1	476.9	423.1
35°	438.5	447.7	518.5	483.1	484.6	593.9	749.3	575.4	526.2	446.2	386.2
37.5°	540.0	540.0	600.0	609.3	649.3	781.6	981.6	760.0	704.6	581.6	507.7
40°	615.4	623.1	718.5	753.9	760.0	872.3	1229.3	890.8	812.3	650.8	593.9
42.5°	717.0	715.4	803.1	827.7	844.6	886.2	1257.0	1024.7	932.3	737.0	693.9
45°	733.9	758.5	838.5	810.8	832.3	938.5	1312.4	1213.9	1090.8	900.0	810.8
47.5°	666.2	700.0	861.6	838.5	752.3	801.6	1052.3	1246.2	1110.8	924.7	861.6
50°	718.5	737.0	817.0	801.6	686.2	852.3	1155.4	1561.6	1410.8	1100.0	938.5
52.5°	929.3	969.3	983.1	1043.1	987.7	1275.4	1617.0	1978.5	1958.5	1592.4	1238.5
55°	1193.9	1252.4	1313.9	1541.6	1573.9	2003.2	2257.0	2643.2	2883.2	2518.6	1900.1
57.5°	1480.1	1563.1	1543.1	1873.9	1924.7	2714.0	2947.8	3852.5	4494.0	3998.6	2783.2
60°	1757.0	1812.4	1700.1	1990.8	2087.8	3417.1	3760.1	5017.1	5861.8	5334.1	3427.8
62.5°	1927.8	1963.2	1778.5	2070.9	2184.7	3661.7	4220.2	5147.9	6011.0	5609.5	3777.1
65°	1926.2	1917.0	1706.2	1960.1	1944.7	3380.1	4078.6	4326.3	5369.4	5301.7	3821.7
67.5°	1850.8	1853.9	1632.4	1833.9	1770.8	2980.1	3778.6	3660.1	4720.2	4811.0	3717.1
70°	1778.5	1815.5	1604.7	1780.1	1750.8	2866.3	3647.8	3294.0	4415.6	4587.9	3606.3
72.5°	1677.0	1712.4	1513.9	1667.8	1678.5	2638.6	3424.7	2875.5	3894.0	4101.7	3232.4
75°	1675.5	1720.1	1533.9	1669.3	1686.2	2509.3	3452.4	2730.9	3581.7	3860.2	3017.0
77.5°	1580.1	1620.1	1447.7	1573.9	1621.6	2270.9	3294.0	2550.9	3235.5	3547.8	2735.5
80°	1269.3	1323.1	1181.6	1264.7	1290.8	1703.1	2641.6	2089.3	2632.4	2944.7	2235.5
82.5°	867.7	917.0	823.1	884.7	918.5	1117.0	1826.2	1504.7	1789.3	1980.1	1400.1
85°	501.6	560.0	504.6	496.9	513.9	589.3	983.1	800.0	832.3	875.4	621.6
87.5°	315.4	324.6	296.9	298.5	301.6	323.1	447.7	356.9	393.9	446.2	376.9
90°	250.8	260.0	240.0	241.5	236.9	256.9	335.4	272.3	303.1	349.2	298.5
92.5°	216.9	223.1	209.2	212.3	209.2	224.6	280.0	224.6	249.2	286.2	244.6
95°	184.6	189.2	181.5	183.1	173.9	183.1	218.5	170.8	189.2	215.4	183.1
97.5°	147.7	152.3	147.7	147.7	138.5	143.1	167.7	132.3	144.6	161.5	138.5
100°	116.9	118.5	116.9	115.4	107.7	107.7	116.9	95.4	100.0	110.8	95.4
102.5°	89.2	90.8	89.2	87.7	78.5	73.8	73.8	61.5	64.6	67.7	60.0
105°	70.8	72.3	70.8	67.7	60.0	55.4	53.8	44.6	44.6	46.2	41.5
107.5°	58.5	58.5	58.5	55.4	50.8	44.6	40.0	32.3	32.3	33.8	32.3
110°	47.7	47.7	46.2	44.6	40.0	35.4	30.8	26.2	26.2	26.2	24.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	40.0	40.0	38.5	36.9	32.3	27.7	24.6	21.5	21.5	21.5	20.0
115°	33.8	33.8	32.3	30.8	27.7	23.1	20.0	16.9	16.9	16.9	16.9
117.5°	29.2	29.2	27.7	26.2	23.1	20.0	16.9	13.8	13.8	13.8	13.8
120°	26.2	24.6	23.1	21.5	18.5	16.9	13.8	12.3	12.3	12.3	10.8
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°	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
2.5°	92.3	92.3	90.8	90.8	90.8	89.2	89.2	90.8	90.8	90.8	90.8
5°	98.5	96.9	93.8	90.8	89.2	87.7	86.2	86.2	89.2	89.2	89.2
7.5°	110.8	109.2	104.6	101.5	98.5	95.4	93.8	92.3	93.8	95.4	95.4
10°	123.1	121.5	115.4	110.8	109.2	106.2	104.6	103.1	104.6	104.6	104.6
12.5°	135.4	132.3	127.7	121.5	118.5	116.9	115.4	113.9	113.9	113.9	113.9
15°	146.2	141.5	136.9	132.3	129.2	126.2	124.6	123.1	124.6	126.2	126.2
17.5°	163.1	158.5	147.7	140.0	138.5	135.4	133.9	133.9	135.4	136.9	136.9
20°	181.5	172.3	160.0	152.3	150.8	146.2	144.6	144.6	146.2	147.7	147.7
22.5°	196.9	190.8	172.3	161.5	160.0	158.5	160.0	160.0	161.5	163.1	163.1
25°	250.8	226.2	200.0	192.3	190.8	187.7	184.6	183.1	184.6	189.2	190.8
27.5°	338.5	293.9	244.6	227.7	227.7	230.8	236.9	240.0	233.9	230.8	232.3
30°	396.9	336.9	266.2	250.8	253.9	269.2	283.1	292.3	286.2	281.5	283.1
32.5°	381.6	326.2	275.4	272.3	281.5	293.9	301.6	306.2	318.5	323.1	329.2
35°	347.7	306.2	278.5	290.8	296.9	296.9	296.9	296.9	320.0	341.6	347.7
37.5°	424.6	353.9	330.8	335.4	330.8	326.2	330.8	343.1	363.1	380.0	384.6
40°	498.5	409.2	370.8	367.7	366.2	381.6	409.2	430.8	436.9	421.6	424.6
42.5°	580.0	463.1	413.9	418.5	430.8	455.4	486.2	486.2	486.2	472.3	476.9
45°	656.9	526.2	496.9	509.3	509.3	521.6	538.5	527.7	541.6	547.7	555.4
47.5°	747.7	610.8	546.2	535.4	536.9	561.6	567.7	563.1	572.3	561.6	561.6
50°	775.4	624.6	573.9	615.4	615.4	587.7	564.6	567.7	593.9	623.1	629.3
52.5°	986.2	773.9	727.7	770.8	789.3	741.6	741.6	747.7	753.9	775.4	781.6
55°	1475.4	1103.1	964.7	1064.7	1078.5	1107.7	1187.7	1175.4	1104.7	1069.3	1066.2
57.5°	2206.2	1637.0	1201.6	1343.1	1432.4	1552.4	1612.4	1577.0	1481.6	1449.3	1413.9
60°	2820.1	2241.6	1557.0	1803.1	1937.0	1957.0	1935.5	1938.5	1866.2	1889.3	1880.1
62.5°	3047.8	2750.9	2001.6	2150.9	2170.9	2109.3	2166.2	2297.0	2180.1	2110.9	2100.1
65°	3115.5	2940.1	2126.2	2029.3	2010.8	2000.1	2224.7	2443.2	2181.6	2020.1	2018.5
67.5°	3047.8	2746.3	1967.8	1807.8	1850.8	1938.5	2230.9	2312.4	2066.2	1887.8	1875.5
70°	2960.1	2433.9	1770.8	1632.4	1732.4	1860.1	2046.2	2013.9	1917.0	1758.5	1750.8
72.5°	2641.6	2109.3	1644.7	1529.3	1643.1	1680.1	1772.4	1758.5	1786.2	1686.2	1681.6
75°	2364.7	1937.0	1569.3	1433.9	1489.3	1483.1	1557.0	1573.9	1652.4	1609.3	1592.4
77.5°	2040.1	1684.7	1383.1	1226.2	1247.7	1246.2	1281.6	1292.4	1347.7	1350.8	1332.4
80°	1597.0	1320.1	1080.0	923.1	926.2	898.5	903.1	901.6	912.3	924.7	907.7
82.5°	917.0	737.0	612.3	512.3	490.8	453.9	446.2	449.2	444.6	441.6	441.6
85°	449.2	349.2	321.6	287.7	275.4	266.2	270.8	280.0	284.6	275.4	270.8
87.5°	303.1	261.5	249.2	235.4	229.2	220.0	226.2	233.9	240.0	232.3	230.8
90°	240.0	207.7	204.6	201.5	196.9	189.2	195.4	204.6	209.2	203.1	200.0
92.5°	193.9	167.7	167.7	166.2	161.5	155.4	163.1	170.8	175.4	170.8	169.2
95°	149.2	129.2	133.9	130.8	126.2	124.6	129.2	135.4	138.5	135.4	135.4
97.5°	115.4	101.5	106.2	104.6	98.5	96.9	100.0	104.6	107.7	104.6	103.1
100°	78.5	72.3	78.5	78.5	72.3	69.2	72.3	76.9	78.5	78.5	76.9
102.5°	52.3	49.2	56.9	58.5	55.4	52.3	53.8	56.9	58.5	58.5	58.5
105°	36.9	36.9	44.6	46.2	43.1	40.0	43.1	44.6	44.6	44.6	44.6
107.5°	29.2	30.8	35.4	38.5	35.4	32.3	33.8	35.4	35.4	35.4	36.9
110°	24.6	24.6	29.2	32.3	29.2	27.7	27.7	27.7	27.7	29.2	32.3



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	20.0	21.5	24.6	26.2	24.6	23.1	23.1	23.1	23.1	24.6	29.2
115°	16.9	18.5	21.5	21.5	20.0	20.0	20.0	18.5	18.5	20.0	27.7
117.5°	13.8	15.4	16.9	16.9	16.9	15.4	15.4	15.4	15.4	18.5	29.2
120°	12.3	12.3	13.8	13.8	12.3	12.3	12.3	12.3	10.8	15.4	23.1
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)