

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: P588419

Luminaire Tested: **GAT-CA6-LED-130-722-U-33-5-6-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588419
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-130-722-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: 9649 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 - G4

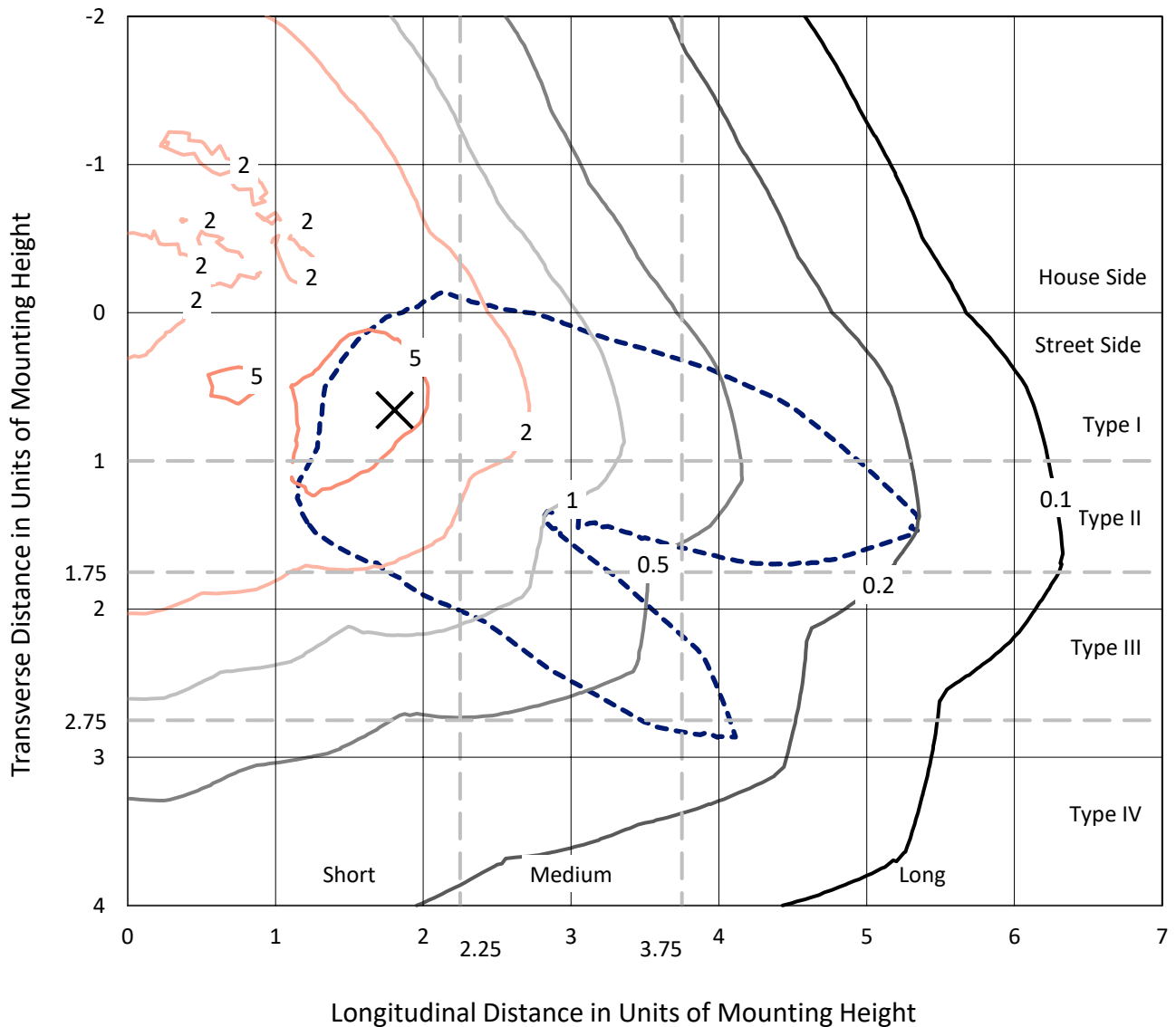
Input Watts (W): 124.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

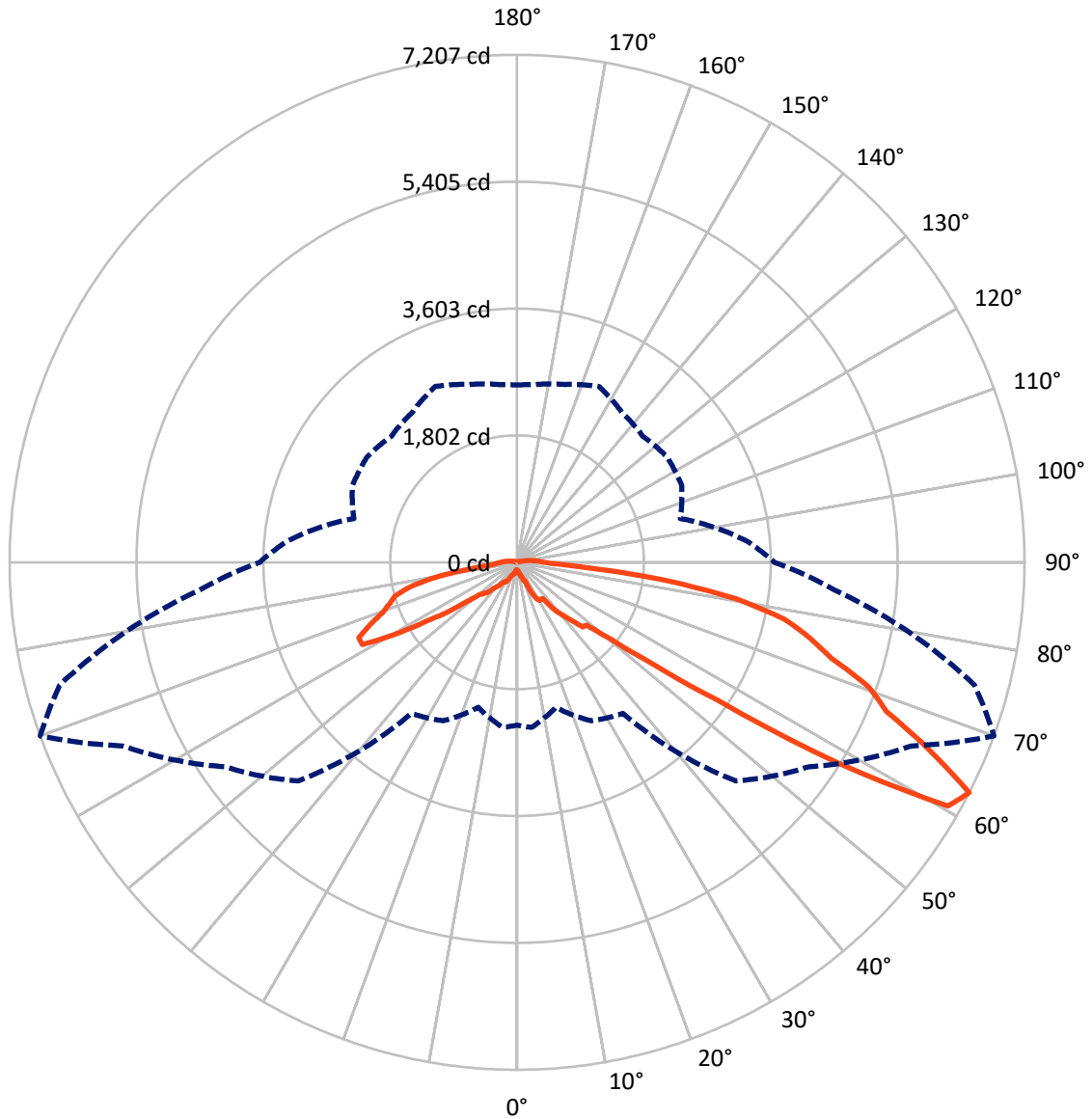
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.4 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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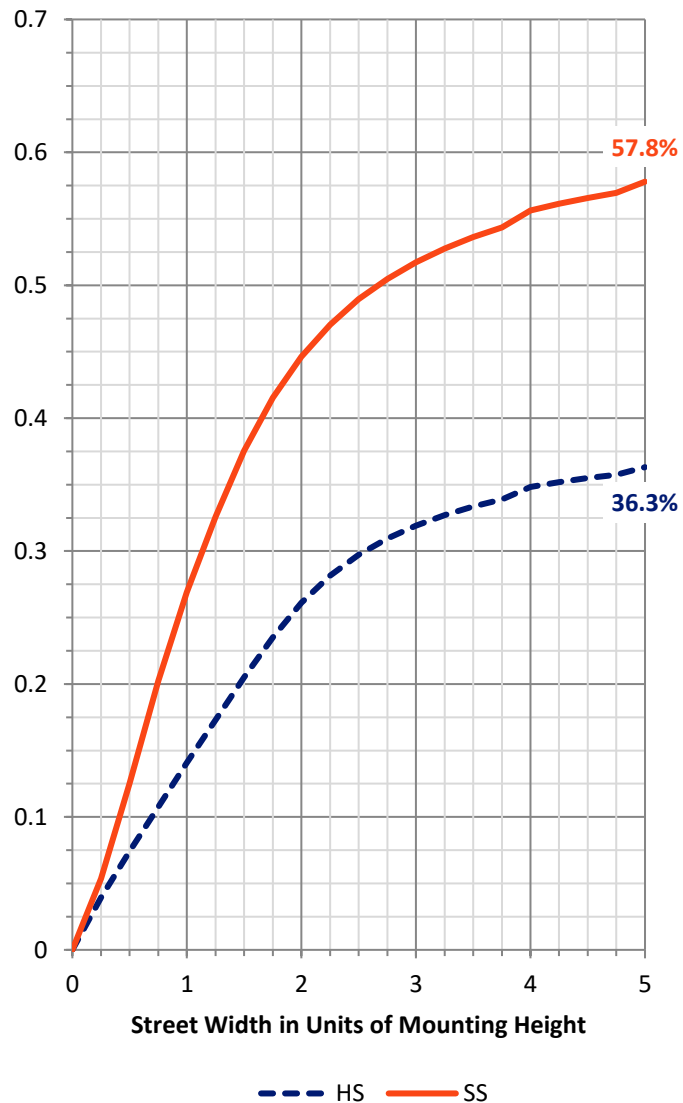
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3576.2	131.1	3707.2
	% Fixture	37.1	1.4	38.4
Street Side	Lumens	5761.6	180.2	5941.8
	% Fixture	59.7	1.9	61.6
Total	Lumens	9337.8	311.2	9649.0
	% Fixture	96.8	3.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.2	0.1
10°-20°	52.5	0.5
20°-30°	162.8	1.7
30°-40°	349.1	3.6
40°-50°	654.0	6.8
50°-60°	1697.2	17.6
60°-70°	3108.9	32.2
70°-80°	2493.7	25.8
80°-90°	807.5	8.4
90°-100°	212.8	2.2
100°-110°	69.2	0.7
110°-120°	27.1	0.3
120°-130°	2.1	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°	9337.8	96.8
0°-180°	9649.0	100.0

Coefficient of Utilization



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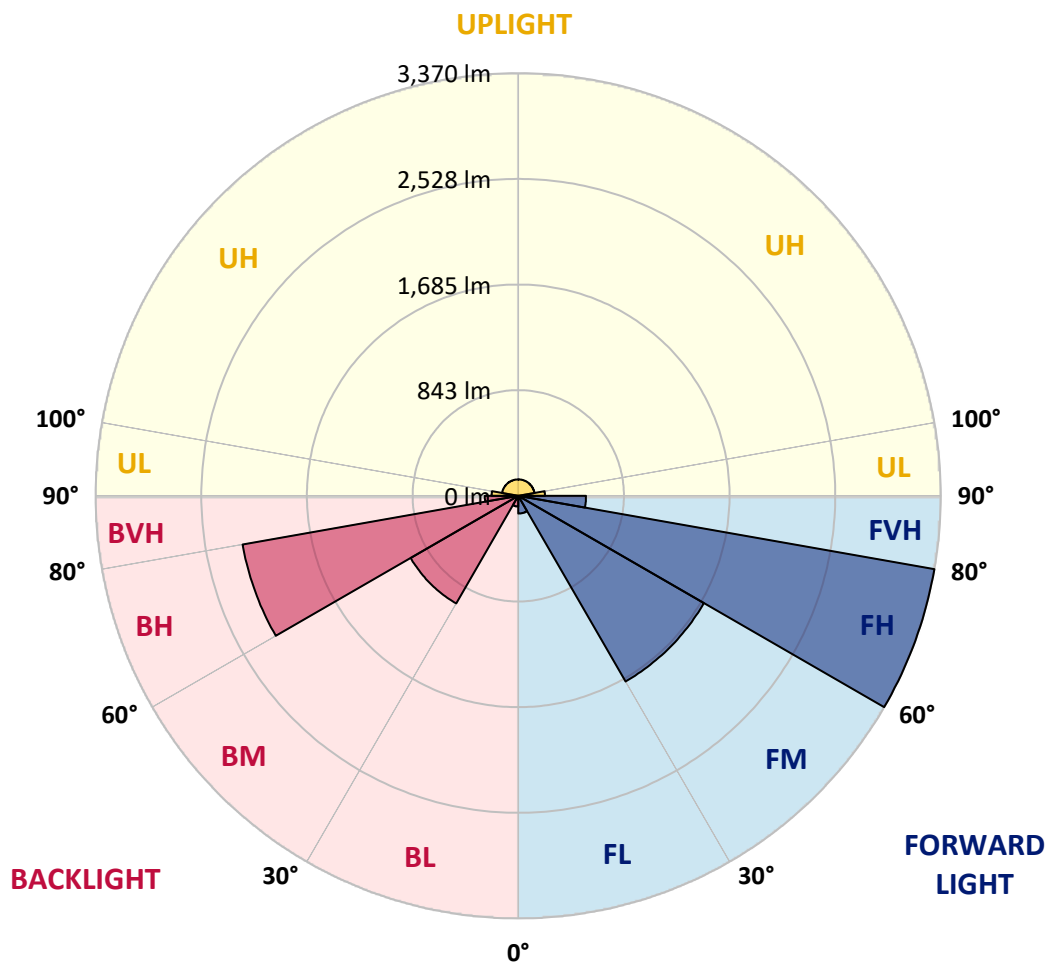
CATALOG NUMBER: GAT-CA6-LED-130-722-U-33-5-6-X

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	141.6	1.5			
FM (30°-60°)	1709.7	17.7			
FH (60°-80°)	3370.2	34.9			G2/5000
FVH (80°-90°)	540.2	5.6			G4/750
BL (0°-30°)	85.9	0.9	B0/110		
BM (30°-60°)	990.6	10.3	B1/1000		
BH (60°-80°)	2232.4	23.1	B3/2500		G3/2500
BVH (80°-90°)	267.3	2.8			G3/500
UL (90°-100°)	212.8	2.2		U3/500	
UH (100°-180°)	131.1	1.4		U3/500	

BUG Rating: B3-U3-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	114.4	114.4	114.4	114.4	114.4	114.4	114.4	114.4	114.4	114.4	114.4
2.5°	123.6	123.6	123.6	121.7	119.9	118.1	116.2	116.2	114.4	112.5	110.7
5°	134.7	132.8	131.0	127.3	125.4	125.4	123.6	123.6	123.6	121.7	119.9
7.5°	149.4	149.4	147.6	145.7	143.9	142.0	140.2	138.3	138.3	136.5	134.7
10°	169.7	169.7	169.7	167.9	167.9	166.0	162.3	160.5	156.8	154.9	149.4
12.5°	190.0	191.8	188.1	188.1	188.1	186.3	182.6	180.8	177.1	173.4	166.0
15°	210.3	208.4	206.6	204.7	208.4	208.4	206.6	206.6	199.2	193.7	180.8
17.5°	228.7	228.7	230.6	230.6	236.1	234.3	234.3	232.4	228.7	219.5	202.9
20°	258.2	260.1	260.1	260.1	278.5	285.9	287.8	289.6	284.1	265.6	232.4
22.5°	287.8	289.6	302.5	298.8	298.8	298.8	317.3	308.0	284.1	261.9	243.5
25°	389.2	394.7	398.4	411.3	426.1	466.7	531.2	510.9	474.1	398.4	335.7
27.5°	487.0	494.3	560.8	653.0	665.9	617.9	664.0	603.2	584.7	507.3	455.6
30°	531.2	544.2	658.5	721.2	743.4	680.7	747.1	630.8	625.3	570.0	525.7
32.5°	542.3	551.5	677.0	684.3	689.9	682.5	782.1	640.1	627.2	571.8	507.3
35°	525.7	536.8	621.6	579.2	581.0	712.0	898.3	689.9	630.8	534.9	463.0
37.5°	647.4	647.4	719.4	730.5	778.4	937.0	1176.8	911.2	844.8	697.3	608.7
40°	737.8	747.1	861.4	903.8	911.2	1045.9	1473.8	1068.0	973.9	780.3	712.0
42.5°	859.6	857.7	962.9	992.4	1012.7	1062.5	1507.0	1228.5	1117.8	883.6	831.9
45°	879.9	909.4	1005.3	972.1	997.9	1125.2	1573.4	1455.4	1307.8	1079.1	972.1
47.5°	798.7	839.3	1033.0	1005.3	902.0	961.0	1261.7	1494.1	1331.8	1108.6	1033.0
50°	861.4	883.6	979.5	961.0	822.7	1021.9	1385.3	1872.3	1691.5	1318.9	1125.2
52.5°	1114.1	1162.1	1178.7	1250.6	1184.2	1529.2	1938.7	2372.1	2348.2	1909.1	1484.9
55°	1431.4	1501.5	1575.3	1848.3	1887.0	2401.6	2706.0	3169.0	3456.7	3019.6	2278.1
57.5°	1774.5	1874.1	1850.1	2246.7	2307.6	3253.8	3534.2	4618.8	5388.0	4794.1	3336.8
60°	2106.5	2172.9	2038.3	2386.9	2503.1	4096.8	4508.2	6015.2	7027.9	6395.2	4109.7
62.5°	2311.3	2353.7	2132.3	2482.8	2619.3	4390.1	5059.7	6172.0	7206.8	6725.3	4528.4
65°	2309.4	2298.3	2045.6	2350.0	2331.6	4052.5	4890.0	5187.0	6437.6	6356.4	4581.9
67.5°	2219.0	2222.7	1957.1	2198.7	2123.1	3573.0	4530.3	4388.3	5659.2	5768.0	4456.5
70°	2132.3	2176.6	1923.9	2134.2	2099.1	3436.5	4373.5	3949.3	5294.0	5500.5	4323.7
72.5°	2010.6	2053.0	1815.1	1999.5	2012.4	3163.5	4106.0	3447.5	4668.6	4917.7	3875.5
75°	2008.7	2062.2	1839.0	2001.4	2021.7	3008.5	4139.2	3274.1	4294.2	4628.1	3617.2
77.5°	1894.4	1942.3	1735.8	1887.0	1944.2	2722.6	3949.3	3058.3	3879.2	4253.6	3279.7
80°	1521.8	1586.3	1416.6	1516.2	1547.6	2042.0	3167.1	2504.9	3156.1	3530.5	2680.2
82.5°	1040.3	1099.4	986.9	1060.6	1101.2	1339.2	2189.5	1804.0	2145.2	2374.0	1678.6
85°	601.3	671.4	605.0	595.8	616.1	706.5	1178.7	959.2	997.9	1049.6	745.2
87.5°	378.1	389.2	356.0	357.8	361.5	387.4	536.8	427.9	472.2	534.9	451.9
90°	300.7	311.7	287.8	289.6	284.1	308.0	402.1	326.5	363.4	418.7	357.8
92.5°	260.1	267.5	250.9	254.6	250.9	269.3	335.7	269.3	298.8	343.1	293.3
95°	221.3	226.9	217.7	219.5	208.4	219.5	261.9	204.7	226.9	258.2	219.5
97.5°	177.1	182.6	177.1	177.1	166.0	171.5	201.1	158.6	173.4	193.7	166.0
100°	140.2	142.0	140.2	138.3	129.1	129.1	140.2	114.4	119.9	132.8	114.4
102.5°	107.0	108.8	107.0	105.1	94.1	88.5	88.5	73.8	77.5	81.2	71.9
105°	84.9	86.7	84.9	81.2	71.9	66.4	64.6	53.5	53.5	55.3	49.8
107.5°	70.1	70.1	70.1	66.4	60.9	53.5	48.0	38.7	38.7	40.6	38.7
110°	57.2	57.2	55.3	53.5	48.0	42.4	36.9	31.4	31.4	31.4	29.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	48.0	48.0	46.1	44.3	38.7	33.2	29.5	25.8	25.8	25.8	24.0
115°	40.6	40.6	38.7	36.9	33.2	27.7	24.0	20.3	20.3	20.3	20.3
117.5°	35.0	35.0	33.2	31.4	27.7	24.0	20.3	16.6	16.6	16.6	16.6
120°	31.4	29.5	27.7	25.8	22.1	20.3	16.6	14.8	14.8	14.8	12.9
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°	114.4	114.4	114.4	114.4	114.4	114.4	114.4	114.4	114.4	114.4	114.4
2.5°	110.7	110.7	108.8	108.8	108.8	107.0	107.0	108.8	108.8	108.8	108.8
5°	118.1	116.2	112.5	108.8	107.0	105.1	103.3	103.3	107.0	107.0	107.0
7.5°	132.8	131.0	125.4	121.7	118.1	114.4	112.5	110.7	112.5	114.4	114.4
10°	147.6	145.7	138.3	132.8	131.0	127.3	125.4	123.6	125.4	125.4	125.4
12.5°	162.3	158.6	153.1	145.7	142.0	140.2	138.3	136.5	136.5	136.5	136.5
15°	175.2	169.7	164.2	158.6	154.9	151.3	149.4	147.6	149.4	151.3	151.3
17.5°	195.5	190.0	177.1	167.9	166.0	162.3	160.5	160.5	162.3	164.2	164.2
20°	217.7	206.6	191.8	182.6	180.8	175.2	173.4	173.4	175.2	177.1	177.1
22.5°	236.1	228.7	206.6	193.7	191.8	190.0	191.8	191.8	193.7	195.5	195.5
25°	300.7	271.2	239.8	230.6	228.7	225.0	221.3	219.5	221.3	226.9	228.7
27.5°	405.8	352.3	293.3	273.0	273.0	276.7	284.1	287.8	280.4	276.7	278.5
30°	475.9	404.0	319.1	300.7	304.4	322.8	339.4	350.5	343.1	337.6	339.4
32.5°	457.5	391.1	330.2	326.5	337.6	352.3	361.5	367.1	381.8	387.4	394.7
35°	416.9	367.1	333.9	348.6	356.0	356.0	356.0	356.0	383.7	409.5	416.9
37.5°	509.1	424.3	396.6	402.1	396.6	391.1	396.6	411.3	435.3	455.6	461.1
40°	597.6	490.7	444.5	440.9	439.0	457.5	490.7	516.5	523.9	505.4	509.1
42.5°	695.4	555.2	496.2	501.7	516.5	546.0	582.9	582.9	582.9	566.3	571.8
45°	787.6	630.8	595.8	610.6	610.6	625.3	645.6	632.7	649.3	656.7	665.9
47.5°	896.5	732.3	654.8	641.9	643.8	673.3	680.7	675.1	686.2	673.3	673.3
50°	929.7	748.9	688.0	737.8	737.8	704.6	677.0	680.7	712.0	747.1	754.4
52.5°	1182.4	927.8	872.5	924.1	946.3	889.1	889.1	896.5	903.8	929.7	937.0
55°	1769.0	1322.6	1156.6	1276.5	1293.1	1328.1	1424.0	1409.3	1324.4	1282.0	1278.3
57.5°	2645.1	1962.6	1440.6	1610.3	1717.3	1861.2	1933.1	1890.7	1776.3	1737.6	1695.2
60°	3381.1	2687.6	1866.7	2161.9	2322.3	2346.3	2320.5	2324.2	2237.5	2265.1	2254.1
62.5°	3654.1	3298.1	2399.8	2578.7	2602.7	2528.9	2597.2	2754.0	2613.8	2530.8	2517.9
65°	3735.3	3525.0	2549.2	2433.0	2410.9	2398.0	2667.3	2929.2	2615.6	2421.9	2420.1
67.5°	3654.1	3292.6	2359.2	2167.4	2219.0	2324.2	2674.6	2772.4	2477.3	2263.3	2248.5
70°	3549.0	2918.1	2123.1	1957.1	2077.0	2230.1	2453.3	2414.6	2298.3	2108.4	2099.1
72.5°	3167.1	2528.9	1971.9	1833.5	1970.0	2014.3	2125.0	2108.4	2141.6	2021.7	2016.1
75°	2835.1	2322.3	1881.5	1719.2	1785.6	1778.2	1866.7	1887.0	1981.1	1929.4	1909.1
77.5°	2445.9	2019.8	1658.3	1470.1	1496.0	1494.1	1536.5	1549.4	1615.9	1619.5	1597.4
80°	1914.7	1582.7	1294.9	1106.7	1110.4	1077.2	1082.8	1080.9	1093.8	1108.6	1088.3
82.5°	1099.4	883.6	734.1	614.2	588.4	544.2	534.9	538.6	533.1	529.4	529.4
85°	538.6	418.7	385.5	344.9	330.2	319.1	324.6	335.7	341.2	330.2	324.6
87.5°	363.4	313.6	298.8	282.2	274.8	263.8	271.2	280.4	287.8	278.5	276.7
90°	287.8	249.0	245.3	241.6	236.1	226.9	234.3	245.3	250.9	243.5	239.8
92.5°	232.4	201.1	201.1	199.2	193.7	186.3	195.5	204.7	210.3	204.7	202.9
95°	178.9	154.9	160.5	156.8	151.3	149.4	154.9	162.3	166.0	162.3	162.3
97.5°	138.3	121.7	127.3	125.4	118.1	116.2	119.9	125.4	129.1	125.4	123.6
100°	94.1	86.7	94.1	94.1	86.7	83.0	86.7	92.2	94.1	94.1	92.2
102.5°	62.7	59.0	68.2	70.1	66.4	62.7	64.6	68.2	70.1	70.1	70.1
105°	44.3	44.3	53.5	55.3	51.6	48.0	51.6	53.5	53.5	53.5	53.5
107.5°	35.0	36.9	42.4	46.1	42.4	38.7	40.6	42.4	42.4	42.4	44.3
110°	29.5	29.5	35.0	38.7	35.0	33.2	33.2	33.2	33.2	35.0	38.7



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	24.0	25.8	29.5	31.4	29.5	27.7	27.7	27.7	27.7	29.5	35.0
115°	20.3	22.1	25.8	25.8	24.0	24.0	24.0	22.1	22.1	24.0	33.2
117.5°	16.6	18.4	20.3	20.3	20.3	18.4	18.4	18.4	18.4	22.1	35.0
120°	14.8	14.8	16.6	16.6	14.8	14.8	14.8	14.8	12.9	18.4	27.7
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)