

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: P588348

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

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588348
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-100-722-U-33-5-X-X
Description: GENERATIONS SERIES AVENUE WITH NO CAGE AND TYPE III REFRACTOR
Light Source: (6) 2200K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11866 lumens
Efficiency: N/A
Efficacy: 114.4 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

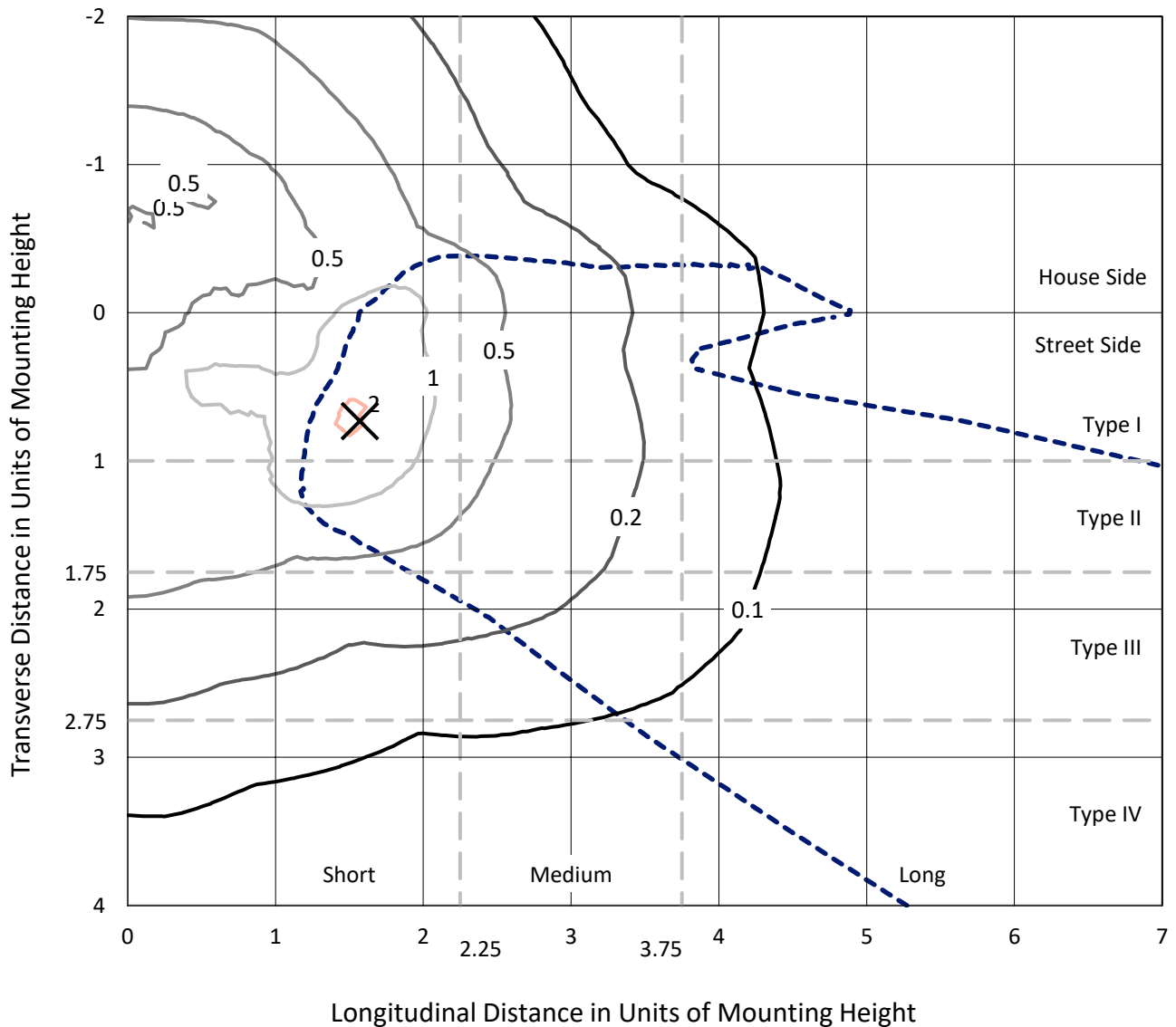
Input Watts (W): 103.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

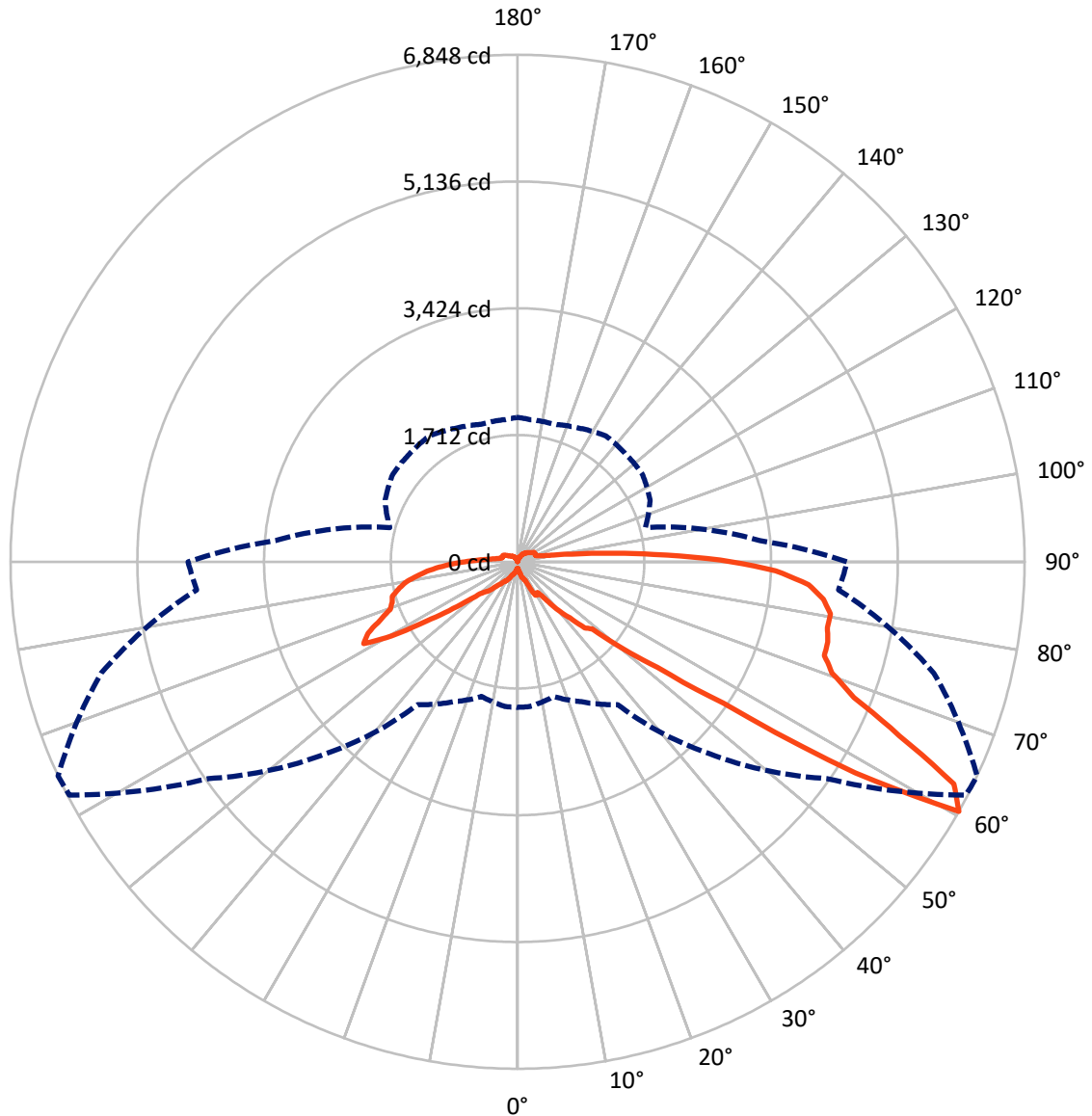
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.1 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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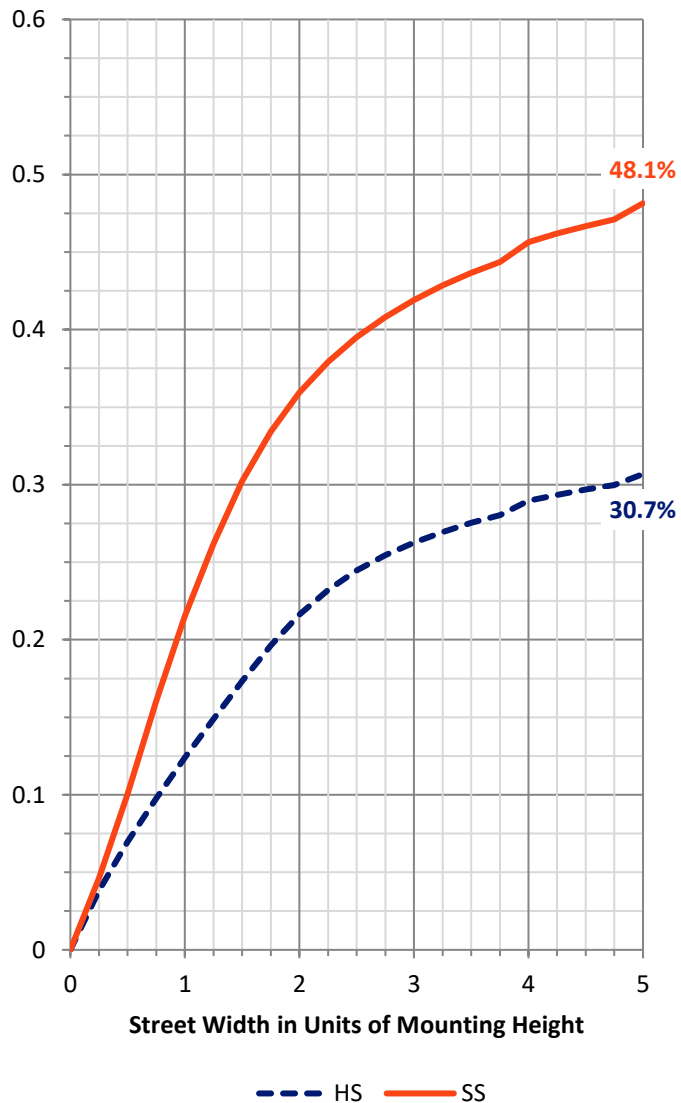
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3957.0	633.7	4590.7
	% Fixture	33.3	5.3	38.7
Street Side	Lumens	6330.7	944.5	7275.3
	% Fixture	53.4	8.0	61.3
Total	Lumens	10287.8	1578.2	11866.0
	% Fixture	86.7	13.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.4	0.1
10°-20°	50.7	0.4
20°-30°	144.9	1.2
30°-40°	312.1	2.6
40°-50°	590.6	5.0
50°-60°	1649.8	13.9
60°-70°	2941.2	24.8
70°-80°	2575.1	21.7
80°-90°	2012.0	17.0
90°-100°	760.7	6.4
100°-110°	261.6	2.2
110°-120°	213.9	1.8
120°-130°	143.7	1.2
130°-140°	98.6	0.8
140°-150°	62.0	0.5
150°-160°	28.8	0.2
160°-170°	8.1	0.1
170°-180°	0.7	0.0
0°-90°	10287.8	86.7
0°-180°	11866.0	100.0

Coefficient of Utilization



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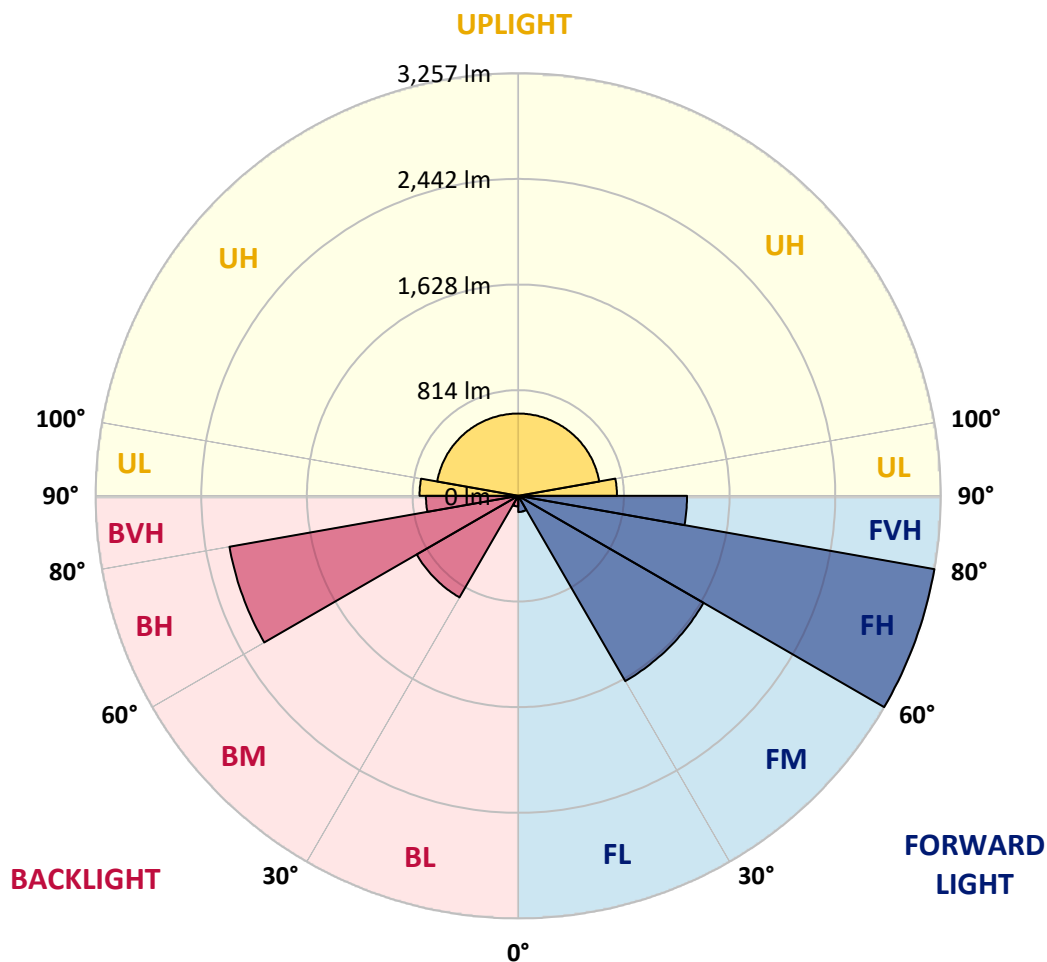
CATALOG NUMBER: GAT-CA6-LED-100-722-U-33-5-X-X

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	125.0	1.1			
FM (30°-60°)	1648.7	13.9			
FH (60°-80°)	3256.6	27.4			G2/5000
FVH (80°-90°)	1300.5	11.0			G5
BL (0°-30°)	82.0	0.7	B0/110		
BM (30°-60°)	903.8	7.6	B1/1000		
BH (60°-80°)	2259.8	19.0	B3/2500		G3/2500
BVH (80°-90°)	711.5	6.0			G4/750
UL (90°-100°)	760.7	6.4		U4/1000	
UH (100°-180°)	633.7	5.3		U4/1000	

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°	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
2.5°	104.6	101.5	98.5	98.5	96.9	95.4	95.4	92.3	93.8	92.3	92.3
5°	123.1	121.5	118.5	120.0	116.9	115.4	115.4	113.8	112.3	110.8	106.2
7.5°	143.1	143.1	144.6	146.1	141.5	136.9	135.4	132.3	132.3	130.8	127.7
10°	164.6	163.1	156.9	156.9	153.8	150.8	152.3	150.8	150.8	150.8	144.6
12.5°	170.8	169.2	164.6	164.6	164.6	163.1	169.2	167.7	169.2	167.7	158.5
15°	192.3	190.8	189.2	190.8	196.9	209.2	224.6	218.5	220.0	216.9	183.1
17.5°	201.5	206.1	209.2	210.8	216.9	216.9	220.0	218.5	224.6	229.2	209.2
20°	233.8	230.8	233.8	244.6	260.0	261.5	256.9	256.9	260.0	261.5	223.1
22.5°	247.7	246.1	258.5	249.2	249.2	256.9	284.6	275.4	275.4	272.3	240.0
25°	321.5	327.7	340.0	355.4	392.3	403.1	433.8	400.0	404.6	356.9	304.6
27.5°	386.1	390.8	463.1	527.7	556.9	541.5	567.7	504.6	510.8	516.9	444.6
30°	406.1	415.4	520.0	567.7	606.1	575.4	609.2	526.1	521.5	556.9	527.7
32.5°	390.8	400.0	510.8	530.8	570.7	684.6	641.5	507.7	493.8	510.8	546.1
35°	429.2	435.4	501.5	453.8	490.8	956.9	840.0	592.3	564.6	470.8	523.1
37.5°	515.4	515.4	593.8	627.7	655.4	1129.2	1103.0	736.9	715.4	550.8	604.6
40°	624.6	621.5	718.4	741.5	753.8	1023.0	1333.8	940.0	892.3	647.7	787.7
42.5°	690.7	684.6	763.1	787.7	787.7	866.1	1509.2	1144.6	1033.8	755.4	963.0
45°	716.9	723.1	824.6	793.8	816.9	889.2	1696.9	1427.6	1272.3	886.1	1116.9
47.5°	649.2	658.4	804.6	807.7	690.7	710.7	1521.5	1483.0	1355.3	949.2	1166.1
50°	796.9	803.0	855.4	820.0	763.1	900.0	1812.2	1906.1	1850.7	1175.3	1230.7
52.5°	1093.8	1121.5	1170.7	1201.5	1184.6	1512.3	2430.7	2413.8	2367.6	1764.6	1679.9
55°	1416.9	1440.0	1509.2	1695.3	1836.9	2264.5	3023.0	3376.8	3373.7	2866.1	2618.4
57.5°	1710.7	1712.2	1721.5	1950.7	2169.2	2956.8	3959.9	5259.8	5376.7	4578.3	3749.1
60°	1966.1	1961.5	1883.0	2087.6	2353.8	3666.0	5104.4	6824.4	6847.5	5821.3	4349.1
62.5°	2035.3	2021.5	1907.6	2098.4	2326.1	3679.9	5396.7	6638.2	6612.1	5909.0	4427.5
65°	1975.3	1961.5	1816.9	1987.6	2095.3	3344.5	4984.4	5709.0	5666.0	5398.3	4215.2
67.5°	1886.1	1895.3	1752.2	1883.0	1956.9	3136.8	4550.6	4912.1	4899.8	5030.6	4038.3
70°	1756.9	1764.6	1633.8	1795.3	1903.0	3004.5	4135.2	4527.5	4506.0	4698.3	3778.3
72.5°	1761.5	1784.6	1629.2	1750.7	1863.0	2823.0	3947.6	4395.2	4332.2	4361.4	3466.0
75°	1773.8	1804.6	1639.9	1749.2	1853.8	2756.8	3926.0	4406.0	4326.0	4239.9	3347.6
77.5°	1778.4	1823.0	1646.1	1766.1	1856.9	2666.1	3876.8	4352.2	4276.8	4122.9	3207.6
80°	1741.5	1789.2	1619.9	1767.6	1836.9	2486.1	3752.2	4342.9	4286.0	4107.6	3150.7
82.5°	1667.6	1715.3	1569.2	1690.7	1798.4	2303.0	3576.8	4162.9	4159.9	3959.9	3030.7
85°	1506.1	1558.4	1447.6	1559.9	1692.2	2059.9	3223.0	3856.8	3941.4	3779.9	2869.1
87.5°	1350.7	1403.0	1344.6	1407.6	1541.5	1790.7	2769.1	3329.1	3487.6	3353.7	2464.5
90°	1173.8	1227.7	1180.0	1155.3	1263.0	1429.2	2213.8	2589.1	2738.4	2656.8	1813.8
92.5°	940.0	986.1	941.5	884.6	949.2	1049.2	1644.6	1812.2	1847.6	1769.2	1189.2
95°	710.7	744.6	704.6	647.7	655.4	718.4	1133.8	1187.7	1178.4	1084.6	755.4
97.5°	493.8	513.8	487.7	447.7	461.5	501.5	750.7	744.6	744.6	663.1	493.8
100°	343.1	350.8	338.4	320.0	330.8	356.9	504.6	503.1	487.7	447.7	360.0
102.5°	272.3	273.8	261.5	249.2	243.1	267.7	364.6	363.1	366.1	347.7	281.5
105°	240.0	238.5	227.7	216.9	204.6	229.2	289.2	301.5	300.0	284.6	241.5
107.5°	220.0	218.5	207.7	198.5	187.7	209.2	250.8	267.7	266.1	264.6	227.7
110°	204.6	203.1	193.8	184.6	175.4	200.0	235.4	261.5	261.5	261.5	230.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
112.5°	193.8	193.8	186.1	178.5	170.8	198.5	226.1	256.9	256.9	264.6	241.5
115°	187.7	186.1	180.0	175.4	169.2	200.0	223.1	253.8	255.4	266.1	240.0
117.5°	183.1	181.5	176.9	170.8	167.7	196.9	224.6	260.0	258.5	275.4	235.4
120°	175.4	172.3	166.1	160.0	156.9	181.5	218.5	252.3	249.2	256.9	216.9
122.5°	169.2	160.0	149.2	144.6	144.6	164.6	204.6	227.7	224.6	218.5	195.4
125°	155.4	146.1	136.9	135.4	136.9	153.8	195.4	209.2	210.8	206.1	184.6
127.5°	140.0	133.8	129.2	129.2	132.3	150.8	192.3	201.5	201.5	192.3	175.4
130°	132.3	130.8	127.7	127.7	133.8	152.3	187.7	190.8	190.8	178.5	170.8
132.5°	129.2	126.1	123.1	123.1	129.2	147.7	175.4	181.5	180.0	167.7	161.5
135°	123.1	121.5	118.5	118.5	126.1	144.6	164.6	170.8	169.2	153.8	149.2
137.5°	120.0	116.9	116.9	116.9	124.6	143.1	155.4	160.0	158.5	143.1	138.5
140°	115.4	113.8	110.8	110.8	121.5	138.5	146.1	147.7	146.1	133.8	129.2
142.5°	107.7	106.2	104.6	107.7	118.5	130.8	136.9	136.9	135.4	127.7	121.5
145°	103.1	101.5	100.0	107.7	116.9	123.1	129.2	124.6	124.6	120.0	113.8
147.5°	98.5	96.9	96.9	103.1	110.8	110.8	115.4	113.8	115.4	113.8	107.7
150°	89.2	87.7	87.7	92.3	93.8	93.8	98.5	98.5	98.5	98.5	93.8
152.5°	78.5	76.9	78.5	80.0	80.0	80.0	83.1	84.6	84.6	83.1	81.5
155°	67.7	67.7	67.7	69.2	69.2	67.7	72.3	72.3	72.3	72.3	70.8
157.5°	60.0	60.0	60.0	60.0	60.0	58.5	61.5	61.5	63.1	61.5	61.5
160°	52.3	50.8	50.8	50.8	50.8	49.2	50.8	50.8	50.8	52.3	52.3
162.5°	41.5	40.0	40.0	40.0	40.0	36.9	40.0	38.5	40.0	40.0	41.5
165°	33.8	32.3	32.3	32.3	30.8	29.2	30.8	29.2	29.2	29.2	30.8
167.5°	26.2	26.2	24.6	26.2	24.6	21.5	21.5	20.0	20.0	20.0	20.0
170°	20.0	18.5	16.9	18.5	16.9	13.8	13.8	12.3	12.3	10.8	10.8
172.5°	13.8	12.3	10.8	12.3	10.8	7.7	7.7	4.6	4.6	4.6	4.6
175°	12.3	10.8	9.2	10.8	9.2	6.2	4.6	3.1	3.1	3.1	3.1
177.5°	12.3	10.8	9.2	10.8	9.2	6.2	4.6	3.1	3.1	3.1	3.1
180°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
2.5°	92.3	90.8	89.2	92.3	90.8	92.3	93.8	95.4	95.4	93.8	93.8
5°	106.2	104.6	101.5	100.0	96.9	96.9	96.9	100.0	100.0	98.5	100.0
7.5°	126.1	123.1	118.5	115.4	110.8	110.8	109.2	112.3	113.8	110.8	112.3
10°	141.5	140.0	133.8	129.2	124.6	123.1	123.1	124.6	124.6	123.1	123.1
12.5°	155.4	152.3	146.1	141.5	135.4	133.8	133.8	135.4	135.4	133.8	133.8
15°	175.4	166.1	160.0	155.4	149.2	147.7	146.1	147.7	149.2	146.1	146.1
17.5°	203.1	192.3	178.5	166.1	160.0	163.1	164.6	166.1	164.6	160.0	160.0
20°	218.5	212.3	193.8	184.6	176.9	176.9	176.9	176.9	176.9	175.4	176.9
22.5°	229.2	220.0	196.9	190.8	186.1	189.2	192.3	193.8	193.8	192.3	192.3
25°	278.5	244.6	221.5	216.9	210.8	212.3	209.2	209.2	210.8	209.2	212.3
27.5°	383.1	327.7	275.4	256.9	252.3	252.3	255.4	255.4	255.4	255.4	253.8
30°	460.0	395.4	309.2	284.6	281.5	295.4	303.1	309.2	306.1	301.5	301.5
32.5°	472.3	401.5	315.4	306.1	313.8	324.6	332.3	336.9	341.5	340.0	338.4
35°	446.1	370.8	310.8	323.1	329.2	335.4	336.9	333.8	347.7	353.8	355.4
37.5°	498.4	415.4	361.5	370.8	363.1	356.9	360.0	361.5	380.0	389.2	398.4
40°	636.9	501.5	410.8	406.1	401.5	415.4	433.8	443.1	441.5	435.4	436.9
42.5°	770.7	586.1	463.1	461.5	460.0	484.6	513.8	512.3	498.4	487.7	487.7
45°	907.7	667.7	546.1	547.7	544.6	553.8	561.5	555.4	556.9	560.0	563.1
47.5°	992.3	741.5	598.4	593.8	573.8	592.3	613.8	600.0	595.4	587.7	590.7
50°	1012.3	760.0	629.2	663.1	644.6	630.7	607.7	598.4	615.4	627.7	636.9
52.5°	1315.3	938.4	786.1	840.0	815.4	766.1	761.5	746.1	764.6	766.1	776.9
55°	2204.5	1504.6	1083.0	1135.3	1136.9	1120.0	1196.9	1153.8	1115.3	1098.4	1092.3
57.5°	3475.3	2326.1	1401.5	1467.6	1530.7	1590.7	1695.3	1607.6	1496.9	1483.0	1498.4
60°	4450.6	3284.5	1787.6	1973.8	2058.4	2061.5	2075.3	1989.2	1921.5	1927.6	1949.2
62.5°	4659.8	4084.5	2276.8	2353.8	2361.5	2304.5	2329.2	2384.5	2289.2	2213.8	2233.8
65°	4519.8	4401.4	2436.8	2236.8	2224.5	2233.8	2401.5	2555.3	2363.0	2172.2	2172.2
67.5°	4249.1	4159.9	2273.8	2012.2	2046.1	2150.7	2363.0	2439.9	2235.3	2032.2	2032.2
70°	3959.9	3781.4	2090.7	1833.8	1916.9	2038.4	2176.8	2183.0	2063.0	1918.4	1909.2
72.5°	3647.6	3486.0	2012.2	1781.5	1819.9	1841.5	1916.9	1964.5	1950.7	1856.9	1855.3
75°	3555.3	3424.5	2010.7	1756.9	1733.8	1726.1	1778.4	1881.5	1929.2	1873.8	1876.9
77.5°	3415.3	3336.8	1916.9	1653.8	1629.2	1629.2	1656.9	1739.9	1812.2	1789.2	1796.9
80°	3318.3	3199.9	1773.8	1541.5	1507.6	1512.3	1515.3	1572.3	1639.9	1643.0	1643.0
82.5°	3132.2	2909.1	1556.9	1373.8	1350.7	1356.9	1346.1	1378.4	1396.9	1420.0	1415.3
85°	2826.1	2510.7	1315.3	1190.7	1153.8	1141.5	1132.3	1133.8	1144.6	1140.0	1121.5
87.5°	2367.6	1990.7	1049.2	976.9	933.8	903.0	890.7	875.4	873.8	856.9	863.0
90°	1747.6	1366.1	778.4	752.3	721.5	689.2	672.3	656.9	644.6	627.7	621.5
92.5°	1140.0	880.0	569.2	555.4	535.4	516.9	509.2	501.5	498.4	484.6	489.2
95°	712.3	595.4	427.7	412.3	401.5	396.9	398.4	400.0	396.9	381.5	386.1
97.5°	475.4	430.8	333.8	323.1	312.3	310.8	312.3	315.4	316.9	306.1	309.2
100°	350.8	330.8	273.8	266.1	256.9	253.8	255.4	258.5	260.0	250.8	252.3
102.5°	278.5	269.2	236.9	233.8	223.1	220.0	223.1	224.6	226.1	220.0	220.0
105°	244.6	244.6	218.5	216.9	209.2	206.1	207.7	209.2	210.8	204.6	204.6
107.5°	235.4	236.9	210.8	212.3	207.7	206.1	209.2	212.3	210.8	206.1	204.6
110°	243.1	246.1	210.8	215.4	216.9	220.0	226.1	227.7	227.7	224.6	226.1



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	250.8	255.4	207.7	218.5	229.2	236.9	247.7	253.8	250.8	249.2	250.8
115°	244.6	247.7	193.8	210.8	230.8	241.5	244.6	244.6	236.9	236.9	238.5
117.5°	236.9	243.1	180.0	193.8	207.7	216.9	215.4	210.8	201.5	198.5	207.7
120°	220.0	238.5	172.3	175.4	176.9	180.0	175.4	170.8	163.1	161.5	167.7
122.5°	203.1	220.0	158.5	155.4	153.8	153.8	152.3	150.8	146.1	147.7	153.8
125°	189.2	198.5	144.6	140.0	138.5	140.0	140.0	140.0	136.9	133.8	133.8
127.5°	178.5	181.5	136.9	130.8	129.2	129.2	129.2	130.8	129.2	124.6	124.6
130°	172.3	170.8	132.3	121.5	120.0	121.5	121.5	123.1	120.0	116.9	116.9
132.5°	160.0	156.9	126.1	115.4	113.8	115.4	115.4	115.4	112.3	109.2	109.2
135°	146.1	143.1	118.5	107.7	106.2	107.7	107.7	109.2	106.2	103.1	103.1
137.5°	135.4	132.3	110.8	101.5	100.0	100.0	101.5	101.5	100.0	96.9	96.9
140°	126.1	123.1	103.1	95.4	92.3	93.8	93.8	93.8	92.3	89.2	89.2
142.5°	118.5	116.9	95.4	87.7	84.6	86.2	86.2	87.7	84.6	81.5	81.5
145°	112.3	109.2	89.2	80.0	78.5	78.5	78.5	80.0	76.9	73.8	73.8
147.5°	106.2	103.1	81.5	72.3	70.8	70.8	70.8	70.8	69.2	66.2	64.6
150°	93.8	92.3	75.4	66.2	63.1	63.1	63.1	61.5	58.5	55.4	55.4
152.5°	80.0	78.5	66.2	58.5	55.4	55.4	53.8	53.8	50.8	49.2	47.7
155°	69.2	69.2	60.0	52.3	49.2	47.7	46.2	46.2	44.6	43.1	41.5
157.5°	61.5	60.0	53.8	47.7	41.5	41.5	40.0	40.0	38.5	36.9	35.4
160°	52.3	52.3	46.2	40.0	35.4	33.8	33.8	32.3	30.8	29.2	29.2
162.5°	41.5	41.5	36.9	32.3	27.7	27.7	26.2	26.2	24.6	23.1	21.5
165°	29.2	29.2	27.7	24.6	21.5	20.0	20.0	20.0	18.5	16.9	16.9
167.5°	20.0	20.0	18.5	16.9	15.4	13.8	15.4	15.4	13.8	12.3	12.3
170°	10.8	10.8	9.2	9.2	7.7	7.7	9.2	10.8	9.2	7.7	6.2
172.5°	4.6	4.6	4.6	4.6	3.1	4.6	6.2	7.7	6.2	4.6	4.6
175°	3.1	3.1	4.6	4.6	3.1	4.6	6.2	7.7	6.2	4.6	4.6
177.5°	3.1	3.1	4.6	4.6	3.1	4.6	6.2	7.7	6.2	4.6	4.6
180°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2

(END OF REPORT)