

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: P588540

Luminaire Tested: **GAT-CA6-LED-90-722-U-33-5-X-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588540
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-90-722-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: 10866 lumens
Efficiency: N/A
Efficacy: 115.7 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

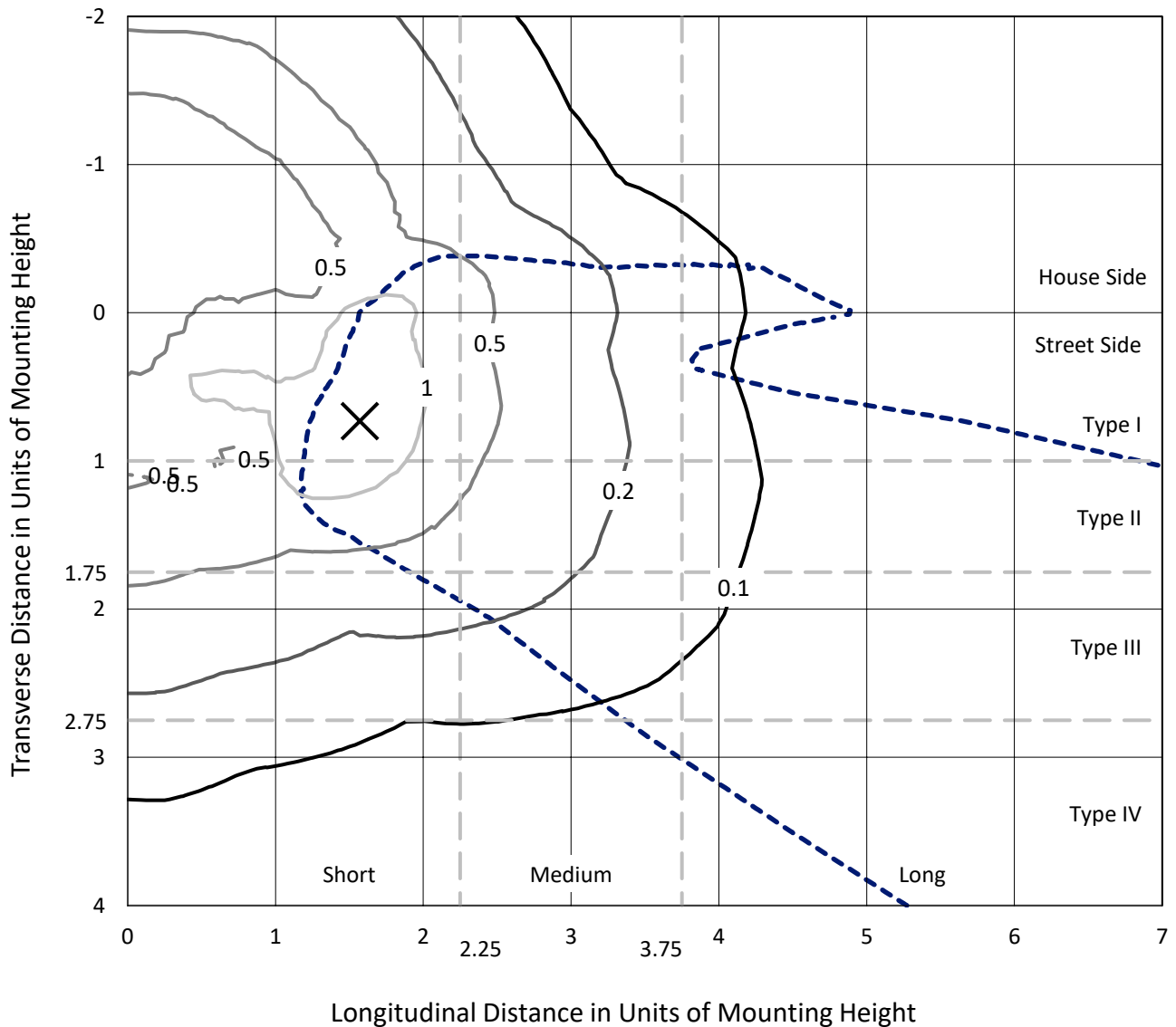
Input Watts (W): 93.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

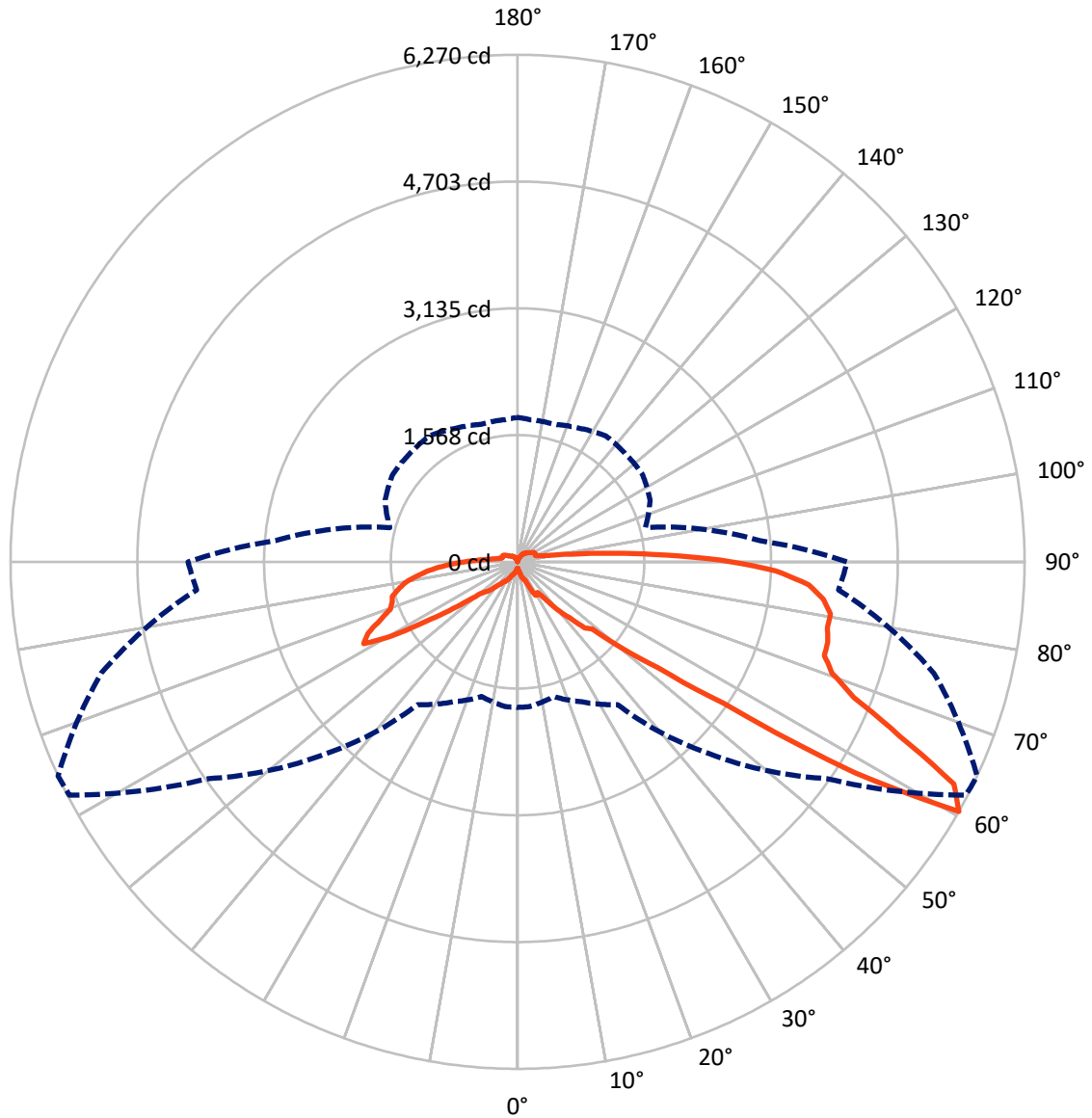
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1.9 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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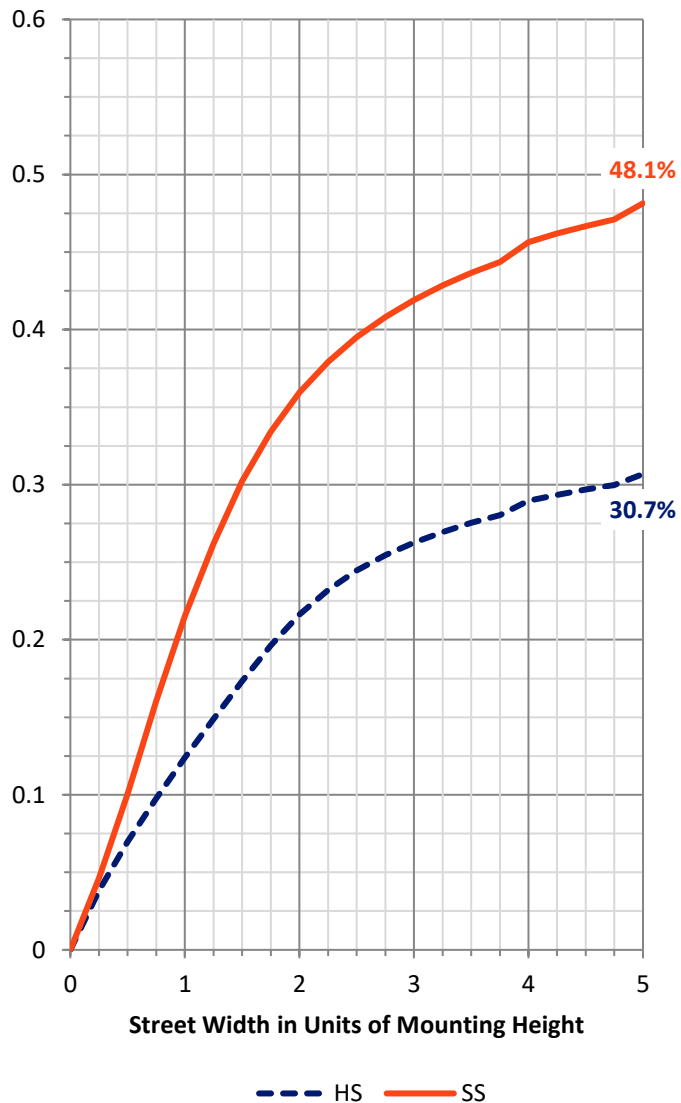
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3623.6	580.3	4203.8
	% Fixture	33.3	5.3	38.7
Street Side	Lumens	5797.2	864.9	6662.2
	% Fixture	53.4	8.0	61.3
Total	Lumens	9420.8	1445.2	10866.0
	% Fixture	86.7	13.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.4	0.1
10°-20°	46.4	0.4
20°-30°	132.7	1.2
30°-40°	285.8	2.6
40°-50°	540.8	5.0
50°-60°	1510.8	13.9
60°-70°	2693.4	24.8
70°-80°	2358.1	21.7
80°-90°	1842.4	17.0
90°-100°	696.6	6.4
100°-110°	239.6	2.2
110°-120°	195.9	1.8
120°-130°	131.6	1.2
130°-140°	90.3	0.8
140°-150°	56.8	0.5
150°-160°	26.3	0.2
160°-170°	7.4	0.1
170°-180°	0.7	0.0
0°-90°	9420.8	86.7
0°-180°	10866.0	100.0

Coefficient of Utilization

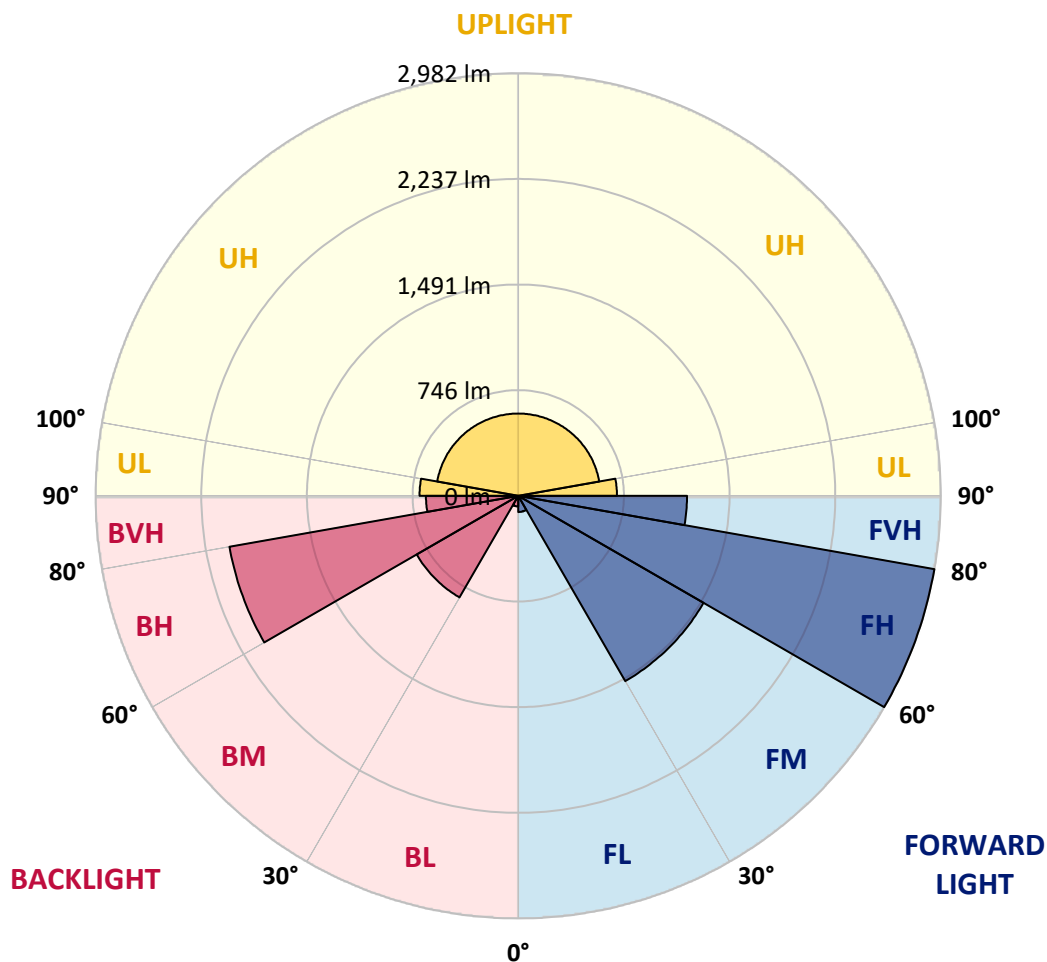


REPORT NUMBER: P588540
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	114.5	1.1			
FM (30°-60°)	1509.7	13.9			
FH (60°-80°)	2982.1	27.4			G2/5000
FVH (80°-90°)	1190.9	11.0			G5
BL (0°-30°)	75.1	0.7	B0/110		
BM (30°-60°)	827.6	7.6	B1/1000		
BH (60°-80°)	2069.3	19.0	B3/2500		G3/2500
BVH (80°-90°)	651.5	6.0			G4/750
UL (90°-100°)	696.6	6.4		U4/1000	
UH (100°-180°)	580.3	5.3		U4/1000	

BUG Rating: B3-U4-G5
 Type III Short





REPORT NUMBER: P588540
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
2.5°	95.8	93.0	90.2	90.2	88.8	87.3	87.3	84.5	85.9	84.5	84.5
5°	112.7	111.3	108.5	109.9	107.1	105.7	105.7	104.2	102.8	101.4	97.2
7.5°	131.0	131.0	132.4	133.8	129.6	125.4	124.0	121.2	121.2	119.7	116.9
10°	150.7	149.3	143.7	143.7	140.9	138.1	139.5	138.1	138.1	138.1	132.4
12.5°	156.4	155.0	150.7	150.7	150.7	149.3	155.0	153.6	155.0	153.6	145.1
15°	176.1	174.7	173.3	174.7	180.3	191.6	205.7	200.0	201.5	198.6	167.6
17.5°	184.5	188.8	191.6	193.0	198.6	198.6	201.5	200.0	205.7	209.9	191.6
20°	214.1	211.3	214.1	224.0	238.1	239.5	235.3	235.3	238.1	239.5	204.3
22.5°	226.8	225.4	236.7	228.2	228.2	235.3	260.6	252.2	252.2	249.4	219.8
25°	294.4	300.1	311.3	325.4	359.2	369.1	397.3	366.3	370.5	326.8	278.9
27.5°	353.6	357.8	424.0	483.2	510.0	495.9	519.8	462.1	467.7	473.3	407.1
30°	371.9	380.4	476.2	519.8	555.1	526.9	557.9	481.8	477.6	510.0	483.2
32.5°	357.8	366.3	467.7	486.0	522.7	626.9	587.5	464.9	452.2	467.7	500.1
35°	393.0	398.7	459.3	415.6	449.4	876.2	769.2	542.4	517.0	431.1	479.0
37.5°	471.9	471.9	543.8	574.8	600.1	1034.0	1010.1	674.8	655.1	504.3	553.6
40°	572.0	569.1	657.9	679.0	690.3	936.8	1221.4	860.8	817.1	593.1	721.3
42.5°	632.5	626.9	698.7	721.3	721.3	793.1	1382.0	1048.1	946.7	691.7	881.9
45°	656.5	662.1	755.1	726.9	748.1	814.3	1553.9	1307.3	1165.0	811.4	1022.8
47.5°	594.5	602.9	736.8	739.6	632.5	650.8	1393.3	1358.0	1241.1	869.2	1067.8
50°	729.7	735.4	783.3	750.9	698.7	824.1	1659.5	1745.5	1694.7	1076.3	1127.0
52.5°	1001.6	1027.0	1072.1	1100.2	1084.7	1384.8	2225.8	2210.3	2168.1	1615.8	1538.4
55°	1297.5	1318.6	1382.0	1552.5	1682.1	2073.7	2768.2	3092.2	3089.4	2624.5	2397.7
57.5°	1566.5	1568.0	1576.4	1786.3	1986.4	2707.6	3626.1	4816.6	4923.6	4192.5	3433.1
60°	1800.4	1796.2	1724.3	1911.7	2155.4	3357.1	4674.3	6249.3	6270.4	5330.7	3982.6
62.5°	1863.8	1851.1	1746.9	1921.5	2130.0	3369.8	4941.9	6078.8	6054.9	5411.0	4054.4
65°	1808.8	1796.2	1663.7	1820.1	1918.7	3062.6	4564.4	5227.9	5188.5	4943.3	3860.0
67.5°	1727.1	1735.6	1604.6	1724.3	1791.9	2872.5	4167.1	4498.2	4486.9	4606.6	3698.0
70°	1608.8	1615.8	1496.1	1644.0	1742.6	2751.3	3786.7	4146.0	4126.3	4302.4	3459.9
72.5°	1613.0	1634.2	1491.9	1603.2	1706.0	2585.1	3614.9	4024.8	3967.1	3993.8	3173.9
75°	1624.3	1652.5	1501.7	1601.8	1697.6	2524.5	3595.2	4034.7	3961.4	3882.5	3065.5
77.5°	1628.5	1669.4	1507.4	1617.3	1700.4	2441.4	3550.1	3985.4	3916.4	3775.5	2937.3
80°	1594.7	1638.4	1483.4	1618.7	1682.1	2276.6	3436.0	3976.9	3924.8	3761.4	2885.1
82.5°	1527.1	1570.8	1436.9	1548.2	1646.8	2108.9	3275.4	3812.1	3809.3	3626.1	2775.3
85°	1379.2	1427.1	1325.6	1428.5	1549.6	1886.3	2951.4	3531.8	3609.2	3461.3	2627.3
87.5°	1236.9	1284.8	1231.3	1289.0	1411.6	1639.8	2535.8	3048.6	3193.7	3071.1	2256.8
90°	1074.9	1124.2	1080.5	1058.0	1156.6	1308.7	2027.2	2370.9	2507.6	2432.9	1660.9
92.5°	860.8	903.0	862.2	810.0	869.2	960.8	1506.0	1659.5	1691.9	1620.1	1089.0
95°	650.8	681.8	645.2	593.1	600.1	657.9	1038.3	1087.6	1079.1	993.2	691.7
97.5°	452.2	470.5	446.6	409.9	422.6	459.3	687.5	681.8	681.8	607.2	452.2
100°	314.2	321.2	309.9	293.0	302.9	326.8	462.1	460.7	446.6	409.9	329.6
102.5°	249.4	250.8	239.5	228.2	222.6	245.1	333.9	332.5	335.3	318.4	257.8
105°	219.8	218.4	208.5	198.6	187.4	209.9	264.8	276.1	274.7	260.6	221.2
107.5°	201.5	200.0	190.2	181.7	171.9	191.6	229.6	245.1	243.7	242.3	208.5
110°	187.4	186.0	177.5	169.1	160.6	183.1	215.5	239.5	239.5	239.5	211.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
112.5°	177.5	177.5	170.5	163.4	156.4	181.7	207.1	235.3	235.3	242.3	221.2
115°	171.9	170.5	164.8	160.6	155.0	183.1	204.3	232.4	233.9	243.7	219.8
117.5°	167.6	166.2	162.0	156.4	153.6	180.3	205.7	238.1	236.7	252.2	215.5
120°	160.6	157.8	152.1	146.5	143.7	166.2	200.0	231.0	228.2	235.3	198.6
122.5°	155.0	146.5	136.6	132.4	132.4	150.7	187.4	208.5	205.7	200.0	178.9
125°	142.3	133.8	125.4	124.0	125.4	140.9	178.9	191.6	193.0	188.8	169.1
127.5°	128.2	122.6	118.3	118.3	121.2	138.1	176.1	184.5	184.5	176.1	160.6
130°	121.2	119.7	116.9	116.9	122.6	139.5	171.9	174.7	174.7	163.4	156.4
132.5°	118.3	115.5	112.7	112.7	118.3	135.2	160.6	166.2	164.8	153.6	147.9
135°	112.7	111.3	108.5	108.5	115.5	132.4	150.7	156.4	155.0	140.9	136.6
137.5°	109.9	107.1	107.1	107.1	114.1	131.0	142.3	146.5	145.1	131.0	126.8
140°	105.7	104.2	101.4	101.4	111.3	126.8	133.8	135.2	133.8	122.6	118.3
142.5°	98.6	97.2	95.8	98.6	108.5	119.7	125.4	125.4	124.0	116.9	111.3
145°	94.4	93.0	91.6	98.6	107.1	112.7	118.3	114.1	114.1	109.9	104.2
147.5°	90.2	88.8	88.8	94.4	101.4	101.4	105.7	104.2	105.7	104.2	98.6
150°	81.7	80.3	80.3	84.5	85.9	85.9	90.2	90.2	90.2	90.2	85.9
152.5°	71.8	70.4	71.8	73.3	73.3	73.3	76.1	77.5	77.5	76.1	74.7
155°	62.0	62.0	62.0	63.4	63.4	62.0	66.2	66.2	66.2	66.2	64.8
157.5°	54.9	54.9	54.9	54.9	54.9	53.5	56.4	56.4	57.8	56.4	56.4
160°	47.9	46.5	46.5	46.5	46.5	45.1	46.5	46.5	46.5	47.9	47.9
162.5°	38.0	36.6	36.6	36.6	36.6	33.8	36.6	35.2	36.6	36.6	38.0
165°	31.0	29.6	29.6	29.6	28.2	26.8	28.2	26.8	26.8	26.8	28.2
167.5°	23.9	23.9	22.5	23.9	22.5	19.7	19.7	18.3	18.3	18.3	18.3
170°	18.3	16.9	15.5	16.9	15.5	12.7	12.7	11.3	11.3	9.9	9.9
172.5°	12.7	11.3	9.9	11.3	9.9	7.0	7.0	4.2	4.2	4.2	4.2
175°	11.3	9.9	8.5	9.9	8.5	5.6	4.2	2.8	2.8	2.8	2.8
177.5°	11.3	9.9	8.5	9.9	8.5	5.6	4.2	2.8	2.8	2.8	2.8
180°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
2.5°	84.5	83.1	81.7	84.5	83.1	84.5	85.9	87.3	87.3	85.9	85.9
5°	97.2	95.8	93.0	91.6	88.8	88.8	88.8	91.6	91.6	90.2	91.6
7.5°	115.5	112.7	108.5	105.7	101.4	101.4	100.0	102.8	104.2	101.4	102.8
10°	129.6	128.2	122.6	118.3	114.1	112.7	112.7	114.1	114.1	112.7	112.7
12.5°	142.3	139.5	133.8	129.6	124.0	122.6	122.6	124.0	124.0	122.6	122.6
15°	160.6	152.1	146.5	142.3	136.6	135.2	133.8	135.2	136.6	133.8	133.8
17.5°	186.0	176.1	163.4	152.1	146.5	149.3	150.7	152.1	150.7	146.5	146.5
20°	200.0	194.4	177.5	169.1	162.0	162.0	162.0	162.0	162.0	160.6	162.0
22.5°	209.9	201.5	180.3	174.7	170.5	173.3	176.1	177.5	177.5	176.1	176.1
25°	255.0	224.0	202.9	198.6	193.0	194.4	191.6	191.6	193.0	191.6	194.4
27.5°	350.8	300.1	252.2	235.3	231.0	231.0	233.9	233.9	233.9	233.9	232.4
30°	421.2	362.1	283.2	260.6	257.8	270.5	277.5	283.2	280.3	276.1	276.1
32.5°	432.5	367.7	288.8	280.3	287.4	297.2	304.3	308.5	312.7	311.3	309.9
35°	408.5	339.5	284.6	295.8	301.5	307.1	308.5	305.7	318.4	324.0	325.4
37.5°	456.4	380.4	331.1	339.5	332.5	326.8	329.6	331.1	348.0	356.4	364.9
40°	583.2	459.3	376.1	371.9	367.7	380.4	397.3	405.7	404.3	398.7	400.1
42.5°	705.8	536.7	424.0	422.6	421.2	443.8	470.5	469.1	456.4	446.6	446.6
45°	831.2	611.4	500.1	501.5	498.7	507.2	514.2	508.6	510.0	512.8	515.6
47.5°	908.7	679.0	548.0	543.8	525.5	542.4	562.1	549.4	545.2	538.1	541.0
50°	927.0	695.9	576.2	607.2	590.3	577.6	556.5	548.0	563.5	574.8	583.2
52.5°	1204.5	859.3	719.9	769.2	746.6	701.6	697.3	683.2	700.2	701.6	711.4
55°	2018.8	1377.8	991.8	1039.7	1041.1	1025.6	1096.0	1056.6	1021.4	1005.9	1000.2
57.5°	3182.4	2130.0	1283.4	1344.0	1401.7	1456.7	1552.5	1472.2	1370.7	1358.0	1372.1
60°	4075.5	3007.7	1637.0	1807.4	1884.9	1887.7	1900.4	1821.5	1759.5	1765.2	1784.9
62.5°	4267.1	3740.3	2085.0	2155.4	2162.4	2110.3	2132.9	2183.6	2096.2	2027.2	2045.5
65°	4138.9	4030.5	2231.5	2048.3	2037.1	2045.5	2199.1	2340.0	2163.9	1989.2	1989.2
67.5°	3891.0	3809.3	2082.1	1842.7	1873.7	1969.4	2163.9	2234.3	2046.9	1861.0	1861.0
70°	3626.1	3462.7	1914.5	1679.2	1755.3	1866.6	1993.4	1999.0	1889.1	1756.7	1748.3
72.5°	3340.2	3192.3	1842.7	1631.3	1666.6	1686.3	1755.3	1799.0	1786.3	1700.4	1699.0
75°	3255.6	3135.9	1841.2	1608.8	1587.7	1580.6	1628.5	1722.9	1766.6	1715.9	1718.7
77.5°	3127.4	3055.6	1755.3	1514.4	1491.9	1491.9	1517.2	1593.3	1659.5	1638.4	1645.4
80°	3038.7	2930.2	1624.3	1411.6	1380.6	1384.8	1387.6	1439.8	1501.7	1504.6	1504.6
82.5°	2868.2	2664.0	1425.7	1258.0	1236.9	1242.5	1232.7	1262.2	1279.2	1300.3	1296.1
85°	2587.9	2299.1	1204.5	1090.4	1056.6	1045.3	1036.8	1038.3	1048.1	1043.9	1027.0
87.5°	2168.1	1822.9	960.8	894.6	855.1	826.9	815.7	801.6	800.2	784.7	790.3
90°	1600.4	1251.0	712.8	688.9	660.7	631.1	615.6	601.5	590.3	574.8	569.1
92.5°	1043.9	805.8	521.2	508.6	490.2	473.3	466.3	459.3	456.4	443.8	448.0
95°	652.3	545.2	391.6	377.5	367.7	363.5	364.9	366.3	363.5	349.4	353.6
97.5°	435.3	394.5	305.7	295.8	286.0	284.6	286.0	288.8	290.2	280.3	283.2
100°	321.2	302.9	250.8	243.7	235.3	232.4	233.9	236.7	238.1	229.6	231.0
102.5°	255.0	246.5	216.9	214.1	204.3	201.5	204.3	205.7	207.1	201.5	201.5
105°	224.0	224.0	200.0	198.6	191.6	188.8	190.2	191.6	193.0	187.4	187.4
107.5°	215.5	216.9	193.0	194.4	190.2	188.8	191.6	194.4	193.0	188.8	187.4
110°	222.6	225.4	193.0	197.2	198.6	201.5	207.1	208.5	208.5	205.7	207.1



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	229.6	233.9	190.2	200.0	209.9	216.9	226.8	232.4	229.6	228.2	229.6
115°	224.0	226.8	177.5	193.0	211.3	221.2	224.0	224.0	216.9	216.9	218.4
117.5°	216.9	222.6	164.8	177.5	190.2	198.6	197.2	193.0	184.5	181.7	190.2
120°	201.5	218.4	157.8	160.6	162.0	164.8	160.6	156.4	149.3	147.9	153.6
122.5°	186.0	201.5	145.1	142.3	140.9	140.9	139.5	138.1	133.8	135.2	140.9
125°	173.3	181.7	132.4	128.2	126.8	128.2	128.2	128.2	125.4	122.6	122.6
127.5°	163.4	166.2	125.4	119.7	118.3	118.3	118.3	119.7	118.3	114.1	114.1
130°	157.8	156.4	121.2	111.3	109.9	111.3	111.3	112.7	109.9	107.1	107.1
132.5°	146.5	143.7	115.5	105.7	104.2	105.7	105.7	105.7	102.8	100.0	100.0
135°	133.8	131.0	108.5	98.6	97.2	98.6	98.6	100.0	97.2	94.4	94.4
137.5°	124.0	121.2	101.4	93.0	91.6	91.6	93.0	93.0	91.6	88.8	88.8
140°	115.5	112.7	94.4	87.3	84.5	85.9	85.9	85.9	84.5	81.7	81.7
142.5°	108.5	107.1	87.3	80.3	77.5	78.9	78.9	80.3	77.5	74.7	74.7
145°	102.8	100.0	81.7	73.3	71.8	71.8	71.8	73.3	70.4	67.6	67.6
147.5°	97.2	94.4	74.7	66.2	64.8	64.8	64.8	64.8	63.4	60.6	59.2
150°	85.9	84.5	69.0	60.6	57.8	57.8	57.8	56.4	53.5	50.7	50.7
152.5°	73.3	71.8	60.6	53.5	50.7	50.7	49.3	49.3	46.5	45.1	43.7
155°	63.4	63.4	54.9	47.9	45.1	43.7	42.3	42.3	40.9	39.4	38.0
157.5°	56.4	54.9	49.3	43.7	38.0	38.0	36.6	36.6	35.2	33.8	32.4
160°	47.9	47.9	42.3	36.6	32.4	31.0	31.0	29.6	28.2	26.8	26.8
162.5°	38.0	38.0	33.8	29.6	25.4	25.4	23.9	23.9	22.5	21.1	19.7
165°	26.8	26.8	25.4	22.5	19.7	18.3	18.3	18.3	16.9	15.5	15.5
167.5°	18.3	18.3	16.9	15.5	14.1	12.7	14.1	14.1	12.7	11.3	11.3
170°	9.9	9.9	8.5	8.5	7.0	7.0	8.5	9.9	8.5	7.0	5.6
172.5°	4.2	4.2	4.2	4.2	2.8	4.2	5.6	7.0	5.6	4.2	4.2
175°	2.8	2.8	4.2	4.2	2.8	4.2	5.6	7.0	5.6	4.2	4.2
177.5°	2.8	2.8	4.2	4.2	2.8	4.2	5.6	7.0	5.6	4.2	4.2
180°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6

(END OF REPORT)