

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: P588372

Luminaire Tested: **GAT-CA6-LED-110-722-U-33-5-X-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588372
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-110-722-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: 12628 lumens
Efficiency: N/A
Efficacy: 112.5 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

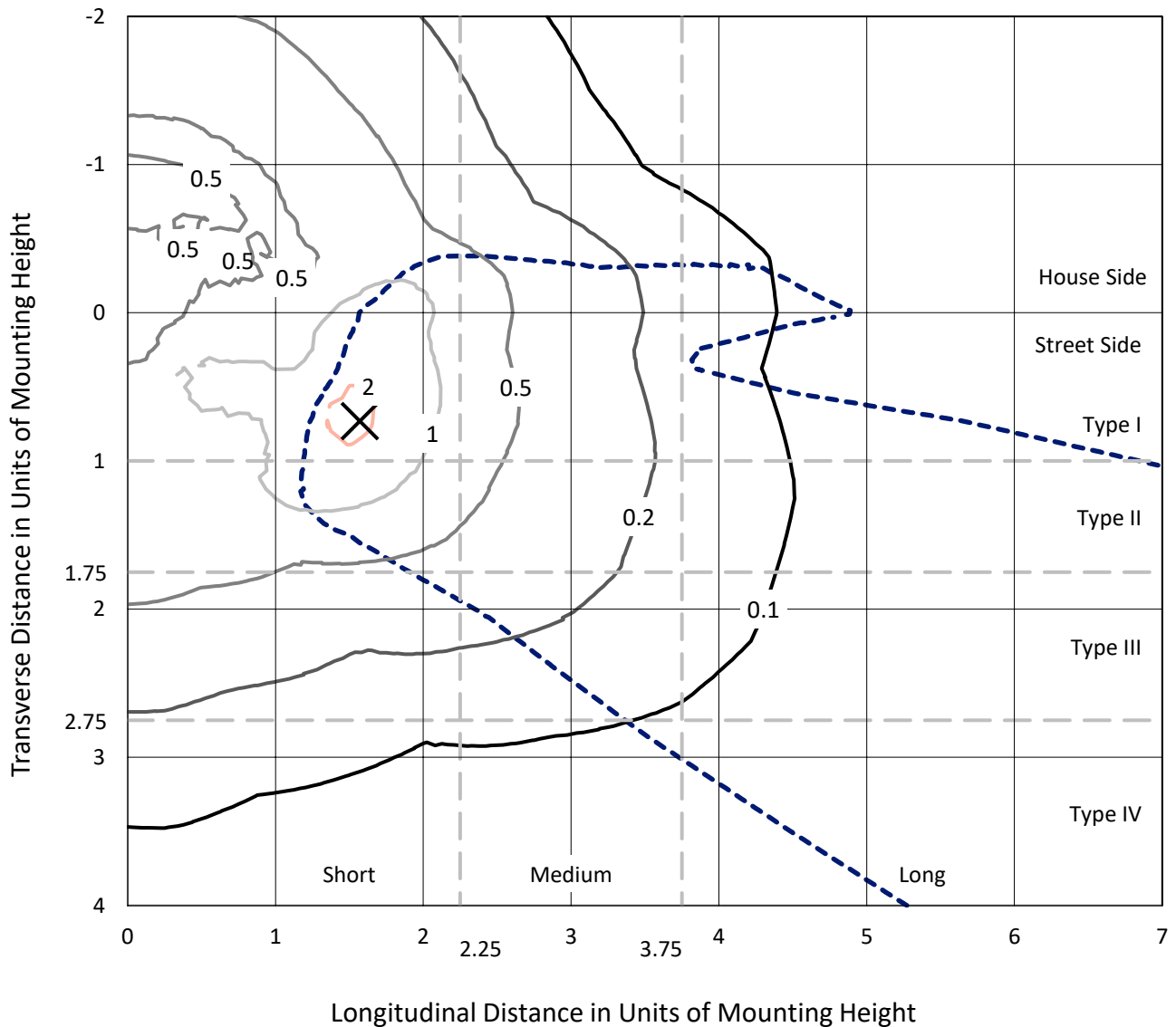
Input Watts (W): 112.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

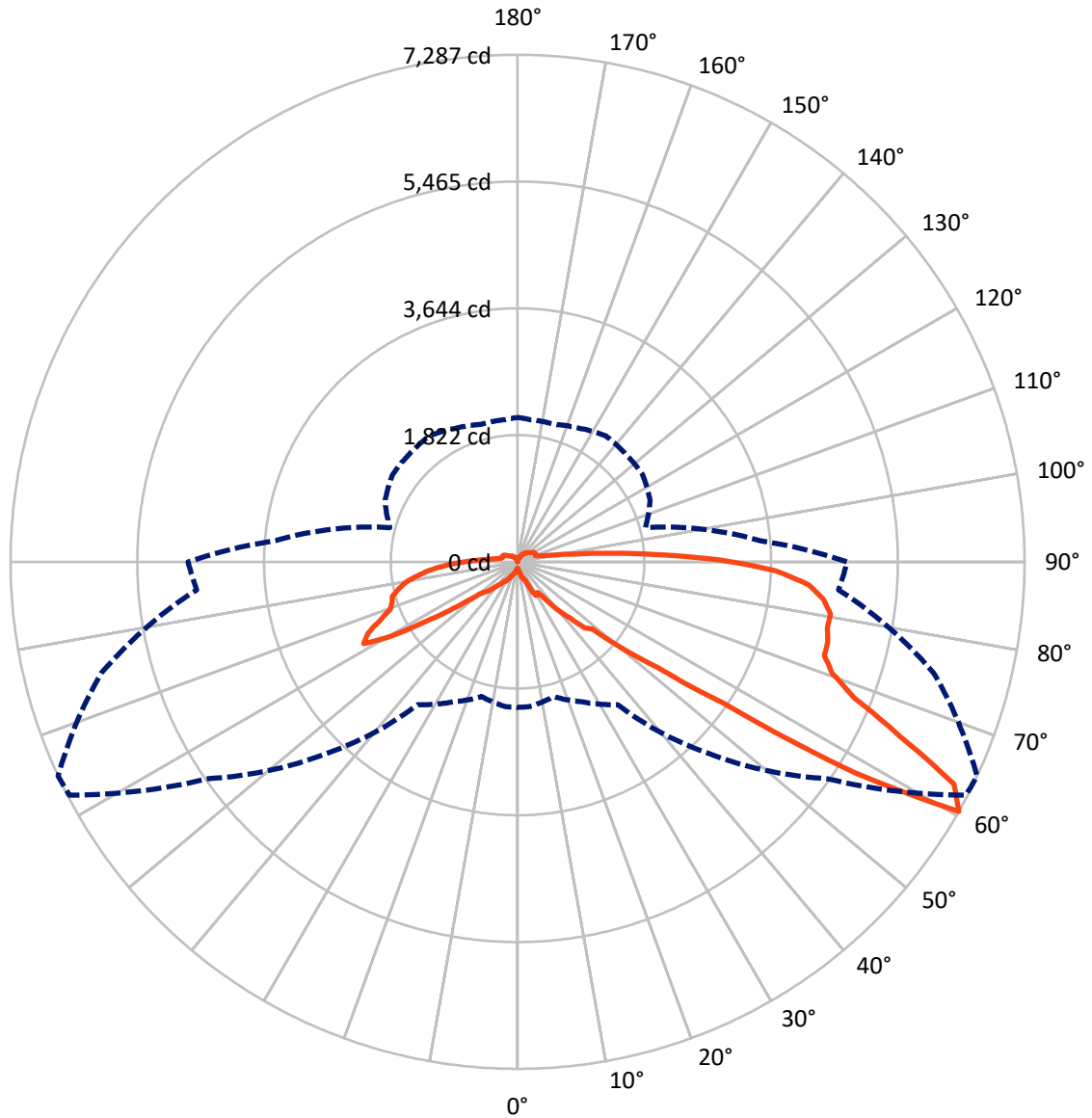
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.3 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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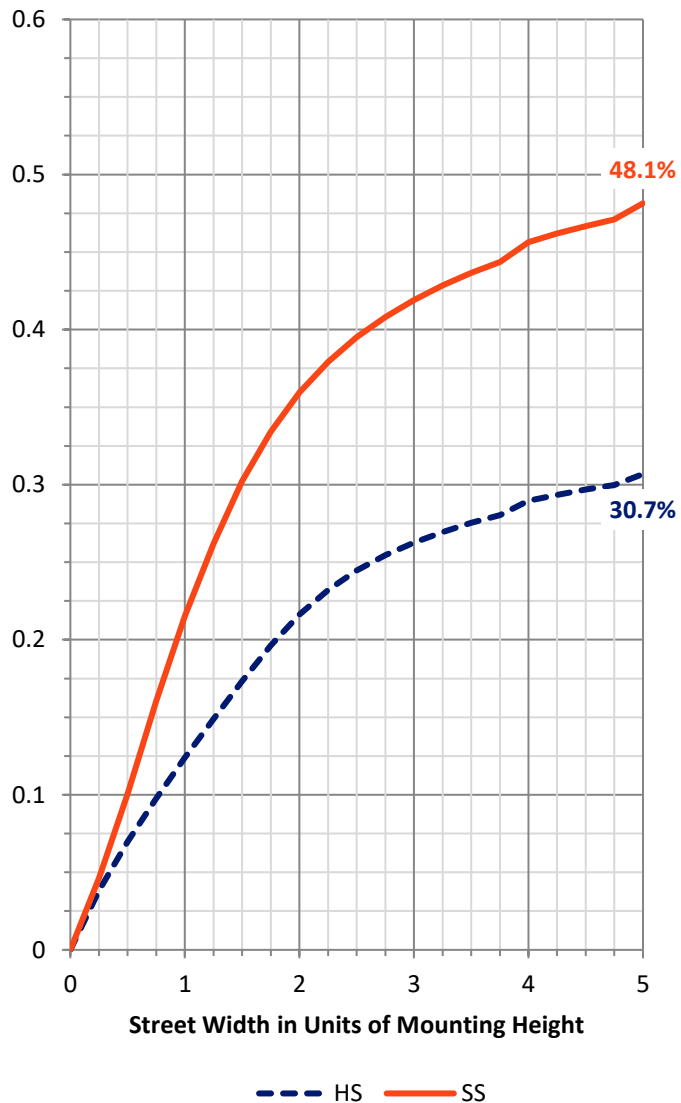
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4211.1	674.4	4885.5
	% Fixture	33.3	5.3	38.7
Street Side	Lumens	6737.3	1005.2	7742.5
	% Fixture	53.4	8.0	61.3
Total	Lumens	10948.4	1679.6	12628.0
	% Fixture	86.7	13.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.1	0.1
10°-20°	53.9	0.4
20°-30°	154.2	1.2
30°-40°	332.1	2.6
40°-50°	628.5	5.0
50°-60°	1755.7	13.9
60°-70°	3130.1	24.8
70°-80°	2740.5	21.7
80°-90°	2141.2	17.0
90°-100°	809.5	6.4
100°-110°	278.4	2.2
110°-120°	227.7	1.8
120°-130°	153.0	1.2
130°-140°	105.0	0.8
140°-150°	66.0	0.5
150°-160°	30.6	0.2
160°-170°	8.6	0.1
170°-180°	0.8	0.0
0°-90°	10948.4	86.7
0°-180°	12628.0	100.0

Coefficient of Utilization



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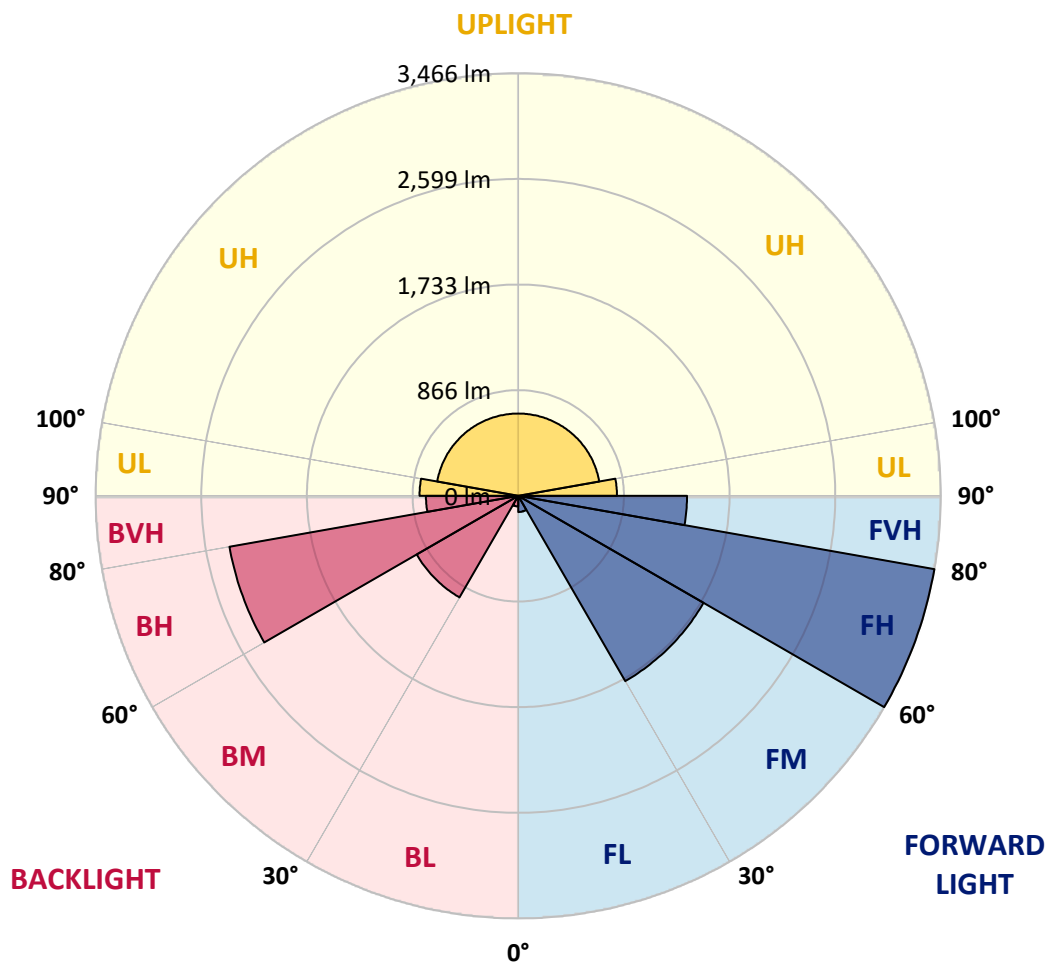
CATALOG NUMBER: GAT-CA6-LED-110-722-U-33-5-X-X

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	133.1	1.1			
FM (30°-60°)	1754.5	13.9			
FH (60°-80°)	3465.7	27.4			G2/5000
FVH (80°-90°)	1384.0	11.0			G5
BL (0°-30°)	87.2	0.7	B0/110		
BM (30°-60°)	961.8	7.6	B1/1000		
BH (60°-80°)	2404.9	19.0	B3/2500		G3/2500
BVH (80°-90°)	757.2	6.0			G5
UL (90°-100°)	809.5	6.4		U4/1000	
UH (100°-180°)	674.4	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°	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
2.5°	111.3	108.1	104.8	104.8	103.1	101.5	101.5	98.2	99.9	98.2	98.2
5°	131.0	129.3	126.1	127.7	124.4	122.8	122.8	121.2	119.5	117.9	113.0
7.5°	152.3	152.3	153.9	155.5	150.6	145.7	144.1	140.8	140.8	139.2	135.9
10°	175.2	173.5	167.0	167.0	163.7	160.4	162.1	160.4	160.4	160.4	153.9
12.5°	181.7	180.1	175.2	175.2	175.2	173.5	180.1	178.5	180.1	178.5	168.6
15°	204.7	203.0	201.4	203.0	209.6	222.7	239.0	232.5	234.1	230.8	194.8
17.5°	214.5	219.4	222.7	224.3	230.8	230.8	234.1	232.5	239.0	243.9	222.7
20°	248.9	245.6	248.9	260.3	276.7	278.3	273.4	273.4	276.7	278.3	237.4
22.5°	263.6	262.0	275.0	265.2	265.2	273.4	302.9	293.1	293.1	289.8	255.4
25°	342.2	348.7	361.8	378.2	417.5	428.9	461.7	425.7	430.6	379.8	324.2
27.5°	410.9	415.8	492.8	561.6	592.7	576.3	604.1	537.0	543.6	550.1	473.2
30°	432.2	442.0	553.4	604.1	645.1	612.3	648.3	559.9	555.0	592.7	561.6
32.5°	415.8	425.7	543.6	564.8	607.4	728.6	682.7	540.3	525.5	543.6	581.2
35°	456.8	463.3	533.7	483.0	522.3	1018.3	893.9	630.3	600.9	501.0	556.6
37.5°	548.5	548.5	632.0	668.0	697.4	1201.7	1173.9	784.2	761.3	586.1	643.4
40°	664.7	661.4	764.6	789.1	802.2	1088.7	1419.5	1000.3	949.6	689.3	838.2
42.5°	735.1	728.6	812.1	838.2	838.2	921.7	1606.1	1218.1	1100.2	803.9	1024.9
45°	762.9	769.5	877.5	844.8	869.4	946.3	1805.8	1519.3	1354.0	943.0	1188.6
47.5°	690.9	700.7	856.3	859.5	735.1	756.4	1619.2	1578.3	1442.4	1010.2	1241.0
50°	848.1	854.6	910.3	872.6	812.1	957.8	1928.6	2028.5	1969.6	1250.8	1309.8
52.5°	1164.0	1193.5	1245.9	1278.7	1260.6	1609.4	2586.8	2568.8	2519.7	1877.9	1787.8
55°	1507.9	1532.4	1606.1	1804.2	1954.8	2410.0	3217.1	3593.7	3590.4	3050.1	2786.5
57.5°	1820.6	1822.2	1832.0	2076.0	2308.5	3146.7	4214.2	5597.6	5722.0	4872.3	3989.9
60°	2092.3	2087.4	2003.9	2221.7	2504.9	3901.4	5432.2	7262.6	7287.2	6195.2	4628.4
62.5°	2166.0	2151.3	2030.1	2233.1	2475.4	3916.2	5743.3	7064.5	7036.7	6288.5	4711.9
65°	2102.2	2087.4	1933.5	2115.3	2229.9	3559.3	5304.5	6075.7	6029.8	5744.9	4485.9
67.5°	2007.2	2017.0	1864.8	2003.9	2082.5	3338.3	4842.8	5227.6	5214.5	5353.6	4297.7
70°	1869.7	1877.9	1738.7	1910.6	2025.2	3197.5	4400.8	4818.3	4795.4	5000.0	4021.0
72.5°	1874.6	1899.2	1733.8	1863.1	1982.7	3004.3	4201.1	4677.5	4610.4	4641.5	3688.6
75°	1887.7	1920.4	1745.3	1861.5	1972.8	2933.9	4178.1	4688.9	4603.8	4512.1	3562.5
77.5°	1892.6	1940.1	1751.8	1879.5	1976.1	2837.3	4125.7	4631.6	4551.4	4387.7	3413.6
80°	1853.3	1904.1	1724.0	1881.1	1954.8	2645.7	3993.1	4621.8	4561.2	4371.3	3353.0
82.5°	1774.7	1825.5	1669.9	1799.3	1913.9	2450.9	3806.5	4430.3	4427.0	4214.2	3225.3
85°	1602.8	1658.5	1540.6	1660.1	1800.9	2192.2	3429.9	4104.5	4194.5	4022.6	3053.4
87.5°	1437.5	1493.1	1430.9	1498.0	1640.5	1905.7	2947.0	3542.9	3711.5	3569.1	2622.8
90°	1249.2	1306.5	1255.7	1229.5	1344.1	1521.0	2355.9	2755.4	2914.2	2827.4	1930.3
92.5°	1000.3	1049.4	1002.0	941.4	1010.2	1116.6	1750.2	1928.6	1966.3	1882.8	1265.6
95°	756.4	792.4	749.8	689.3	697.4	764.6	1206.6	1263.9	1254.1	1154.2	803.9
97.5°	525.5	546.8	519.0	476.4	491.2	533.7	799.0	792.4	792.4	705.6	525.5
100°	365.1	373.3	360.2	340.5	352.0	379.8	537.0	535.4	519.0	476.4	383.1
102.5°	289.8	291.4	278.3	265.2	258.7	284.9	388.0	386.4	389.7	370.0	299.6
105°	255.4	253.8	242.3	230.8	217.7	243.9	307.8	320.9	319.3	302.9	257.0
107.5°	234.1	232.5	221.0	211.2	199.7	222.7	266.9	284.9	283.2	281.6	242.3
110°	217.7	216.1	206.3	196.5	186.6	212.8	250.5	278.3	278.3	278.3	245.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
112.5°	206.3	206.3	198.1	189.9	181.7	211.2	240.7	273.4	273.4	281.6	257.0
115°	199.7	198.1	191.6	186.6	180.1	212.8	237.4	270.1	271.8	283.2	255.4
117.5°	194.8	193.2	188.3	181.7	178.5	209.6	239.0	276.7	275.0	293.1	250.5
120°	186.6	183.4	176.8	170.3	167.0	193.2	232.5	268.5	265.2	273.4	230.8
122.5°	180.1	170.3	158.8	153.9	153.9	175.2	217.7	242.3	239.0	232.5	207.9
125°	165.4	155.5	145.7	144.1	145.7	163.7	207.9	222.7	224.3	219.4	196.5
127.5°	149.0	142.4	137.5	137.5	140.8	160.4	204.7	214.5	214.5	204.7	186.6
130°	140.8	139.2	135.9	135.9	142.4	162.1	199.7	203.0	203.0	189.9	181.7
132.5°	137.5	134.3	131.0	131.0	137.5	157.2	186.6	193.2	191.6	178.5	171.9
135°	131.0	129.3	126.1	126.1	134.3	153.9	175.2	181.7	180.1	163.7	158.8
137.5°	127.7	124.4	124.4	124.4	132.6	152.3	165.4	170.3	168.6	152.3	147.3
140°	122.8	121.2	117.9	117.9	129.3	147.3	155.5	157.2	155.5	142.4	137.5
142.5°	114.6	113.0	111.3	114.6	126.1	139.2	145.7	145.7	144.1	135.9	129.3
145°	109.7	108.1	106.4	114.6	124.4	131.0	137.5	132.6	132.6	127.7	121.2
147.5°	104.8	103.1	103.1	109.7	117.9	117.9	122.8	121.2	122.8	121.2	114.6
150°	95.0	93.3	93.3	98.2	99.9	99.9	104.8	104.8	104.8	104.8	99.9
152.5°	83.5	81.9	83.5	85.1	85.1	85.1	88.4	90.0	90.0	88.4	86.8
155°	72.0	72.0	72.0	73.7	73.7	72.0	76.9	76.9	76.9	76.9	75.3
157.5°	63.9	63.9	63.9	63.9	63.9	62.2	65.5	65.5	67.1	65.5	65.5
160°	55.7	54.0	54.0	54.0	54.0	52.4	54.0	54.0	54.0	55.7	55.7
162.5°	44.2	42.6	42.6	42.6	42.6	39.3	42.6	40.9	42.6	42.6	44.2
165°	36.0	34.4	34.4	34.4	32.7	31.1	32.7	31.1	31.1	31.1	32.7
167.5°	27.8	27.8	26.2	27.8	26.2	22.9	22.9	21.3	21.3	21.3	21.3
170°	21.3	19.6	18.0	19.6	18.0	14.7	14.7	13.1	13.1	11.5	11.5
172.5°	14.7	13.1	11.5	13.1	11.5	8.2	8.2	4.9	4.9	4.9	4.9
175°	13.1	11.5	9.8	11.5	9.8	6.5	4.9	3.3	3.3	3.3	3.3
177.5°	13.1	11.5	9.8	11.5	9.8	6.5	4.9	3.3	3.3	3.3	3.3
180°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
2.5°	98.2	96.6	95.0	98.2	96.6	98.2	99.9	101.5	101.5	99.9	99.9
5°	113.0	111.3	108.1	106.4	103.1	103.1	103.1	106.4	106.4	104.8	106.4
7.5°	134.3	131.0	126.1	122.8	117.9	117.9	116.2	119.5	121.2	117.9	119.5
10°	150.6	149.0	142.4	137.5	132.6	131.0	131.0	132.6	132.6	131.0	131.0
12.5°	165.4	162.1	155.5	150.6	144.1	142.4	142.4	144.1	144.1	142.4	142.4
15°	186.6	176.8	170.3	165.4	158.8	157.2	155.5	157.2	158.8	155.5	155.5
17.5°	216.1	204.7	189.9	176.8	170.3	173.5	175.2	176.8	175.2	170.3	170.3
20°	232.5	225.9	206.3	196.5	188.3	188.3	188.3	188.3	188.3	186.6	188.3
22.5°	243.9	234.1	209.6	203.0	198.1	201.4	204.7	206.3	206.3	204.7	204.7
25°	296.3	260.3	235.8	230.8	224.3	225.9	222.7	222.7	224.3	222.7	225.9
27.5°	407.7	348.7	293.1	273.4	268.5	268.5	271.8	271.8	271.8	271.8	270.1
30°	489.5	420.8	329.1	302.9	299.6	314.3	322.5	329.1	325.8	320.9	320.9
32.5°	502.6	427.3	335.6	325.8	334.0	345.4	353.6	358.5	363.5	361.8	360.2
35°	474.8	394.6	330.7	343.8	350.4	356.9	358.5	355.3	370.0	376.6	378.2
37.5°	530.5	442.0	384.7	394.6	386.4	379.8	383.1	384.7	404.4	414.2	424.0
40°	677.8	533.7	437.1	432.2	427.3	442.0	461.7	471.5	469.9	463.3	465.0
42.5°	820.2	623.8	492.8	491.2	489.5	515.7	546.8	545.2	530.5	519.0	519.0
45°	965.9	710.5	581.2	582.8	579.6	589.4	597.6	591.0	592.7	595.9	599.2
47.5°	1056.0	789.1	636.9	632.0	610.7	630.3	653.2	638.5	633.6	625.4	628.7
50°	1077.3	808.8	669.6	705.6	686.0	671.3	646.7	636.9	654.9	668.0	677.8
52.5°	1399.8	998.7	836.6	893.9	867.7	815.3	810.4	794.0	813.7	815.3	826.8
55°	2346.1	1601.2	1152.6	1208.3	1209.9	1191.9	1273.7	1227.9	1187.0	1169.0	1162.4
57.5°	3698.4	2475.4	1491.5	1561.9	1629.0	1692.9	1804.2	1710.9	1593.0	1578.3	1594.6
60°	4736.4	3495.4	1902.4	2100.5	2190.6	2193.8	2208.6	2116.9	2044.9	2051.4	2074.3
62.5°	4959.1	4346.8	2423.1	2504.9	2513.1	2452.5	2478.7	2537.7	2436.2	2355.9	2377.2
65°	4810.1	4684.0	2593.3	2380.5	2367.4	2377.2	2555.7	2719.4	2514.7	2311.7	2311.7
67.5°	4521.9	4427.0	2419.8	2141.5	2177.5	2288.8	2514.7	2596.6	2378.9	2162.7	2162.7
70°	4214.2	4024.2	2225.0	1951.5	2040.0	2169.3	2316.6	2323.2	2195.5	2041.6	2031.8
72.5°	3881.8	3709.9	2141.5	1895.9	1936.8	1959.7	2040.0	2090.7	2076.0	1976.1	1974.5
75°	3783.6	3644.4	2139.8	1869.7	1845.1	1836.9	1892.6	2002.3	2053.1	1994.1	1997.4
77.5°	3634.6	3551.1	2040.0	1760.0	1733.8	1733.8	1763.3	1851.7	1928.6	1904.1	1912.3
80°	3531.4	3405.4	1887.7	1640.5	1604.5	1609.4	1612.6	1673.2	1745.3	1748.5	1748.5
82.5°	3333.3	3095.9	1656.8	1462.0	1437.5	1444.0	1432.6	1466.9	1486.6	1511.1	1506.2
85°	3007.5	2671.9	1399.8	1267.2	1227.9	1214.8	1205.0	1206.6	1218.1	1213.2	1193.5
87.5°	2519.7	2118.5	1116.6	1039.6	993.8	961.0	947.9	931.6	929.9	911.9	918.5
90°	1859.9	1453.8	828.4	800.6	767.8	733.5	715.5	699.1	686.0	668.0	661.4
92.5°	1213.2	936.5	605.8	591.0	569.7	550.1	541.9	533.7	530.5	515.7	520.6
95°	758.0	633.6	455.1	438.8	427.3	422.4	424.0	425.7	422.4	406.0	410.9
97.5°	505.9	458.4	355.3	343.8	332.4	330.7	332.4	335.6	337.3	325.8	329.1
100°	373.3	352.0	291.4	283.2	273.4	270.1	271.8	275.0	276.7	266.9	268.5
102.5°	296.3	286.5	252.1	248.9	237.4	234.1	237.4	239.0	240.7	234.1	234.1
105°	260.3	260.3	232.5	230.8	222.7	219.4	221.0	222.7	224.3	217.7	217.7
107.5°	250.5	252.1	224.3	225.9	221.0	219.4	222.7	225.9	224.3	219.4	217.7
110°	258.7	262.0	224.3	229.2	230.8	234.1	240.7	242.3	242.3	239.0	240.7



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	266.9	271.8	221.0	232.5	243.9	252.1	263.6	270.1	266.9	265.2	266.9
115°	260.3	263.6	206.3	224.3	245.6	257.0	260.3	260.3	252.1	252.1	253.8
117.5°	252.1	258.7	191.6	206.3	221.0	230.8	229.2	224.3	214.5	211.2	221.0
120°	234.1	253.8	183.4	186.6	188.3	191.6	186.6	181.7	173.5	171.9	178.5
122.5°	216.1	234.1	168.6	165.4	163.7	163.7	162.1	160.4	155.5	157.2	163.7
125°	201.4	211.2	153.9	149.0	147.3	149.0	149.0	149.0	145.7	142.4	142.4
127.5°	189.9	193.2	145.7	139.2	137.5	137.5	137.5	139.2	137.5	132.6	132.6
130°	183.4	181.7	140.8	129.3	127.7	129.3	129.3	131.0	127.7	124.4	124.4
132.5°	170.3	167.0	134.3	122.8	121.2	122.8	122.8	122.8	119.5	116.2	116.2
135°	155.5	152.3	126.1	114.6	113.0	114.6	114.6	116.2	113.0	109.7	109.7
137.5°	144.1	140.8	117.9	108.1	106.4	106.4	108.1	108.1	106.4	103.1	103.1
140°	134.3	131.0	109.7	101.5	98.2	99.9	99.9	99.9	98.2	95.0	95.0
142.5°	126.1	124.4	101.5	93.3	90.0	91.7	91.7	93.3	90.0	86.8	86.8
145°	119.5	116.2	95.0	85.1	83.5	83.5	83.5	85.1	81.9	78.6	78.6
147.5°	113.0	109.7	86.8	76.9	75.3	75.3	75.3	75.3	73.7	70.4	68.8
150°	99.9	98.2	80.2	70.4	67.1	67.1	67.1	65.5	62.2	58.9	58.9
152.5°	85.1	83.5	70.4	62.2	58.9	58.9	57.3	57.3	54.0	52.4	50.8
155°	73.7	73.7	63.9	55.7	52.4	50.8	49.1	49.1	47.5	45.8	44.2
157.5°	65.5	63.9	57.3	50.8	44.2	44.2	42.6	42.6	40.9	39.3	37.7
160°	55.7	55.7	49.1	42.6	37.7	36.0	36.0	34.4	32.7	31.1	31.1
162.5°	44.2	44.2	39.3	34.4	29.5	29.5	27.8	27.8	26.2	24.6	22.9
165°	31.1	31.1	29.5	26.2	22.9	21.3	21.3	21.3	19.6	18.0	18.0
167.5°	21.3	21.3	19.6	18.0	16.4	14.7	16.4	16.4	14.7	13.1	13.1
170°	11.5	11.5	9.8	9.8	8.2	8.2	9.8	11.5	9.8	8.2	6.5
172.5°	4.9	4.9	4.9	4.9	3.3	4.9	6.5	8.2	6.5	4.9	4.9
175°	3.3	3.3	4.9	4.9	3.3	4.9	6.5	8.2	6.5	4.9	4.9
177.5°	3.3	3.3	4.9	4.9	3.3	4.9	6.5	8.2	6.5	4.9	4.9
180°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5

(END OF REPORT)