

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: P588376

Luminaire Tested: **GAT-CA6-LED-110-727-U-33-5-X-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588376
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-110-727-U-33-5-X-X
Description: GENERATIONS SERIES AVENUE WITH NO CAGE AND TYPE III REFRACTOR
Light Source: (6) 2700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14006 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B4 - U4 - G5

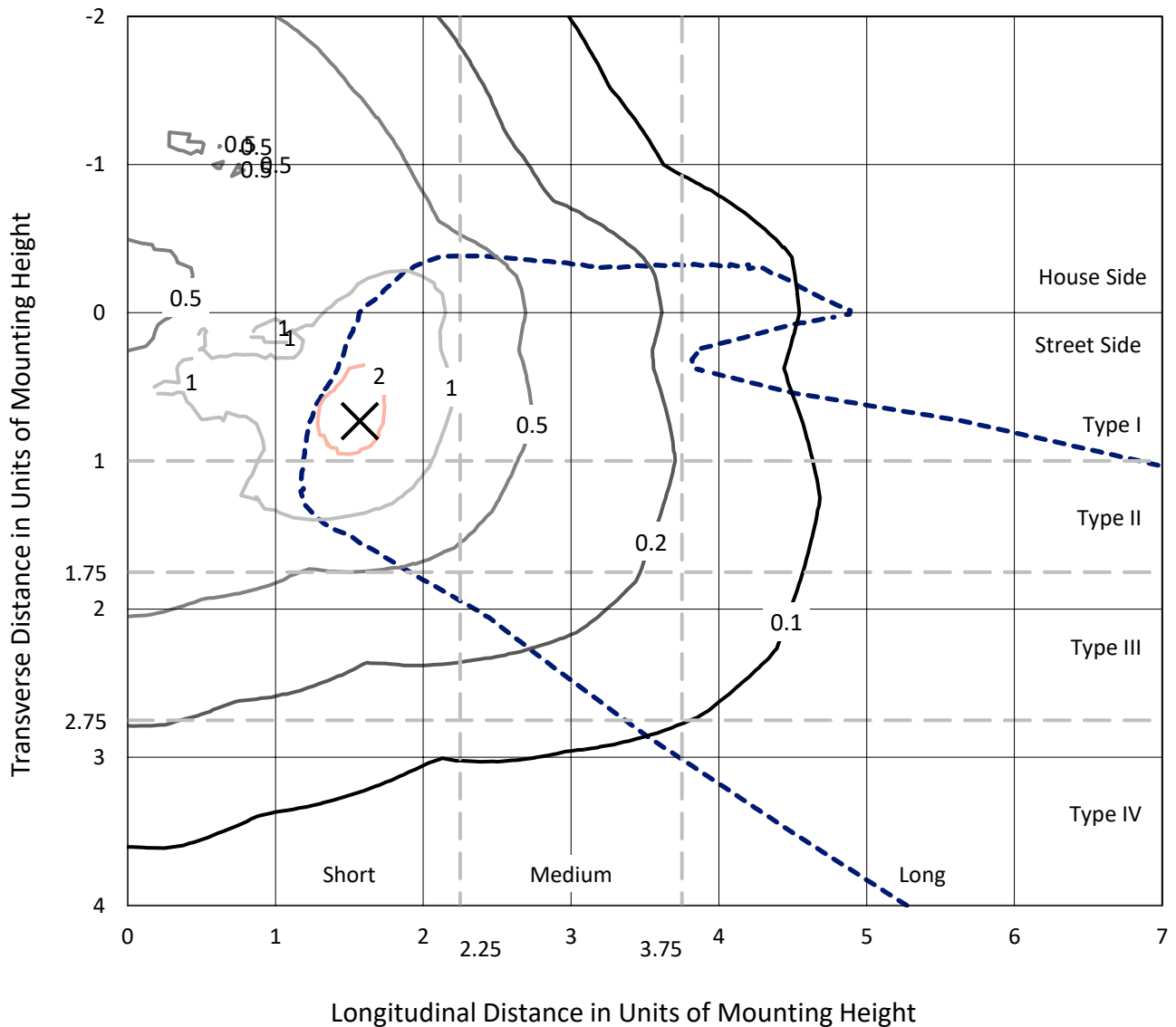
Input Watts (W): 112.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

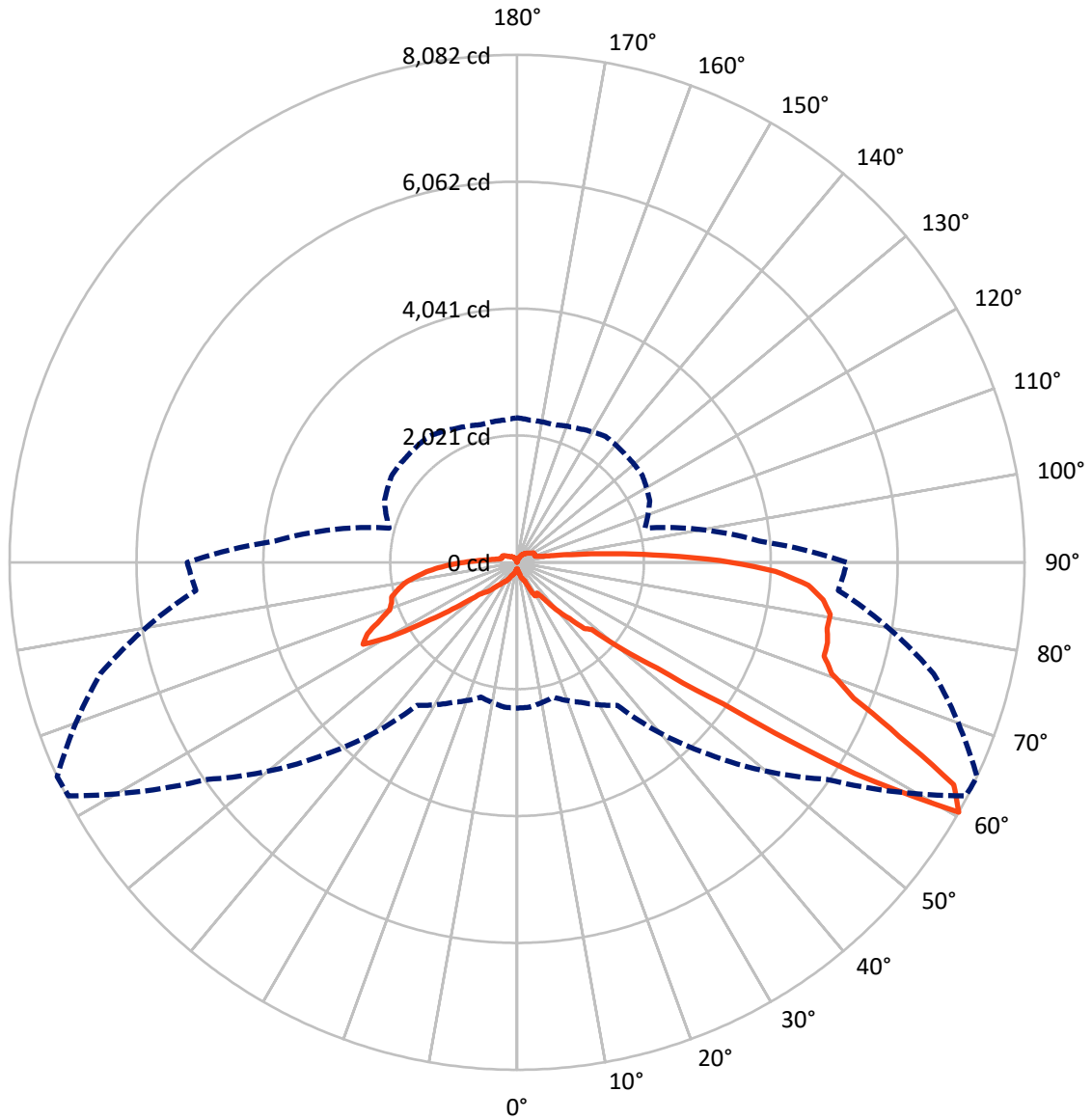
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.5 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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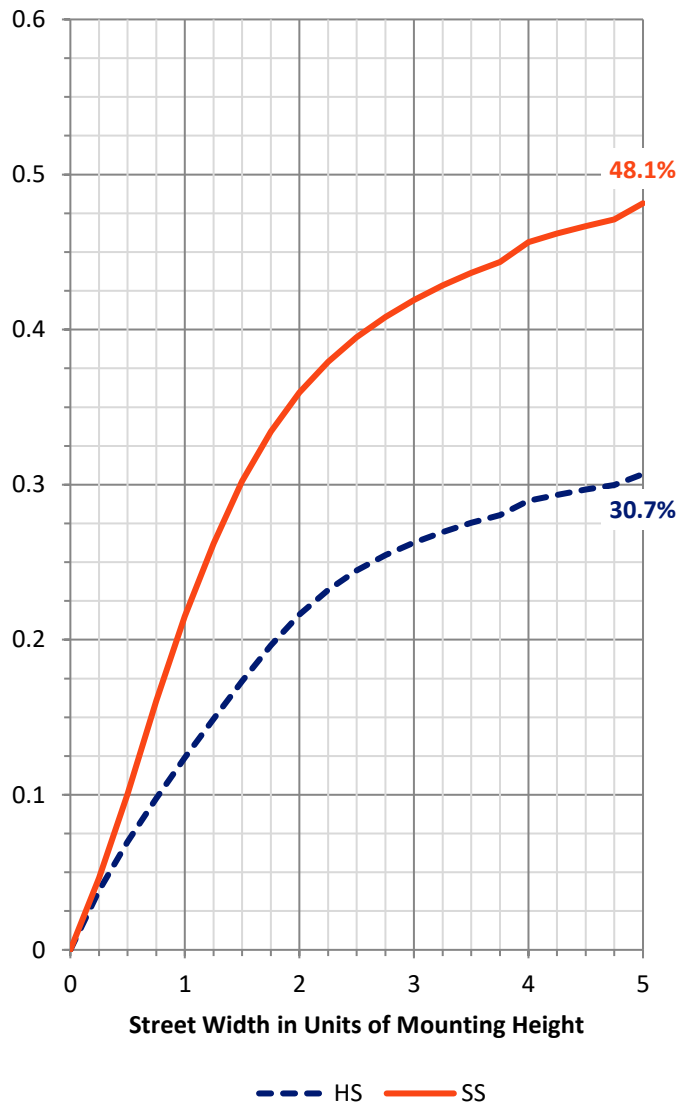
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4670.7	748.0	5418.6
	% Fixture	33.3	5.3	38.7
Street Side	Lumens	7472.5	1114.9	8587.4
	% Fixture	53.4	8.0	61.3
Total	Lumens	12143.1	1862.8	14006.0
	% Fixture	86.7	13.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.4	0.1
10°-20°	59.8	0.4
20°-30°	171.1	1.2
30°-40°	368.4	2.6
40°-50°	697.1	5.0
50°-60°	1947.3	13.9
60°-70°	3471.7	24.8
70°-80°	3039.5	21.7
80°-90°	2374.9	17.0
90°-100°	897.8	6.4
100°-110°	308.8	2.2
110°-120°	252.5	1.8
120°-130°	169.7	1.2
130°-140°	116.4	0.8
140°-150°	73.2	0.5
150°-160°	33.9	0.2
160°-170°	9.6	0.1
170°-180°	0.8	0.0
0°-90°	12143.1	86.7
0°-180°	14006.0	100.0

Coefficient of Utilization



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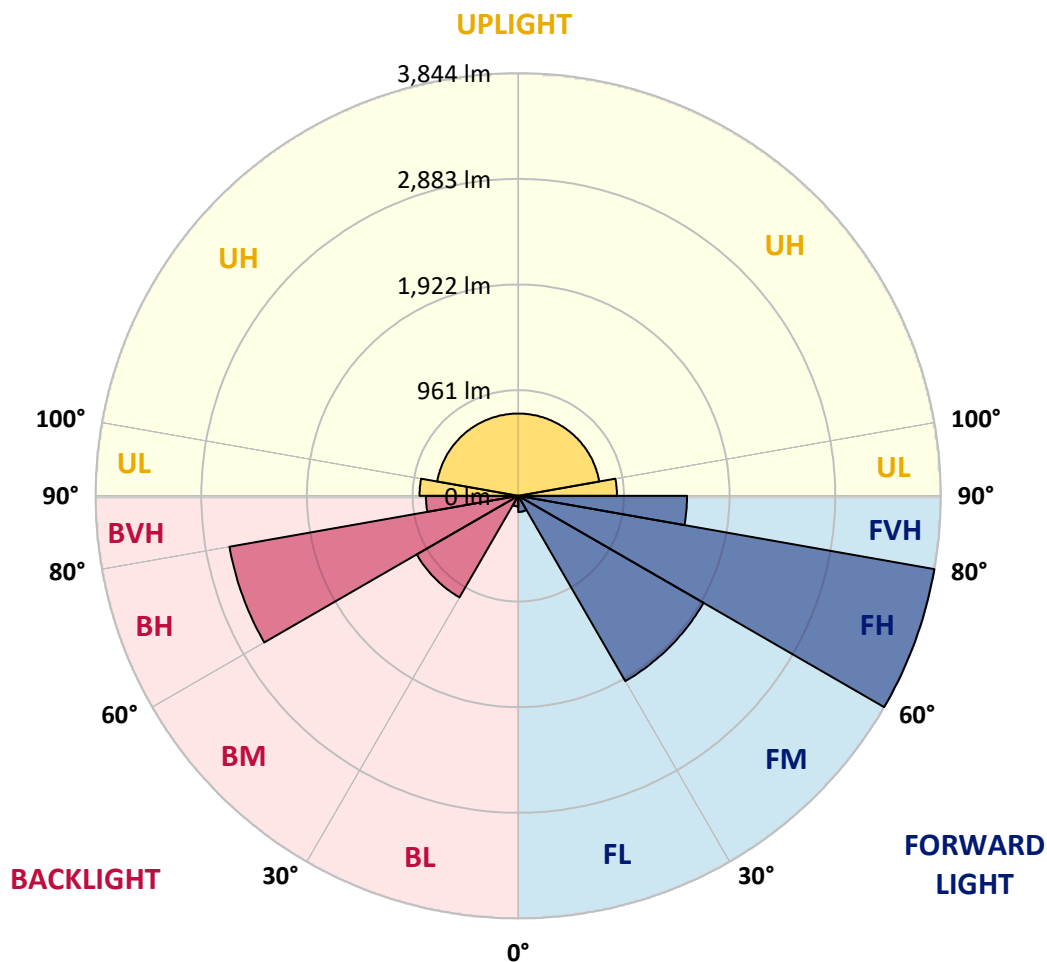
CATALOG NUMBER: GAT-CA6-LED-110-727-U-33-5-X-X

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	147.6	1.1			
FM (30°-60°)	1946.0	13.9			
FH (60°-80°)	3843.9	27.4			G2/5000
FVH (80°-90°)	1535.0	11.0			G5
BL (0°-30°)	96.7	0.7	B0/110		
BM (30°-60°)	1066.8	7.6	B2/2500		
BH (60°-80°)	2667.3	19.0	B4/5000		G4/5000
BVH (80°-90°)	839.8	6.0			G5
UL (90°-100°)	897.8	6.4		U4/1000	
UH (100°-180°)	748.0	5.3		U4/1000	

BUG Rating: B4-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°	107.1	107.1	107.1	107.1	107.1	107.1	107.1	107.1	107.1	107.1	107.1
2.5°	123.5	119.8	116.2	116.2	114.4	112.6	112.6	109.0	110.8	109.0	109.0
5°	145.3	143.5	139.8	141.6	138.0	136.2	136.2	134.4	132.6	130.7	125.3
7.5°	168.9	168.9	170.7	172.5	167.1	161.6	159.8	156.2	156.2	154.3	150.7
10°	194.3	192.5	185.2	185.2	181.6	178.0	179.8	178.0	178.0	178.0	170.7
12.5°	201.6	199.7	194.3	194.3	194.3	192.5	199.7	197.9	199.7	197.9	187.0
15°	227.0	225.2	223.4	225.2	232.4	247.0	265.1	257.9	259.7	256.0	216.1
17.5°	237.9	243.3	247.0	248.8	256.0	256.0	259.7	257.9	265.1	270.6	247.0
20°	276.0	272.4	276.0	288.7	306.9	308.7	303.2	303.2	306.9	308.7	263.3
22.5°	292.4	290.5	305.1	294.2	294.2	303.2	335.9	325.0	325.0	321.4	283.3
25°	379.5	386.8	401.3	419.5	463.0	475.8	512.1	472.1	477.6	421.3	359.5
27.5°	455.8	461.2	546.6	622.8	657.3	639.2	670.1	595.6	602.9	610.1	524.8
30°	479.4	490.3	613.8	670.1	715.4	679.1	719.1	621.0	615.6	657.3	622.8
32.5°	461.2	472.1	602.9	626.5	673.7	808.1	757.2	599.2	582.9	602.9	644.6
35°	506.6	513.9	592.0	535.7	579.3	1129.5	991.5	699.1	666.4	555.7	617.4
37.5°	608.3	608.3	700.9	740.9	773.6	1332.8	1302.0	869.8	844.4	650.1	713.6
40°	737.2	733.6	848.0	875.2	889.8	1207.5	1574.3	1109.5	1053.2	764.5	929.7
42.5°	815.3	808.1	900.7	929.7	929.7	1022.3	1781.4	1351.0	1220.3	891.6	1136.7
45°	846.2	853.5	973.3	937.0	964.2	1049.6	2002.9	1685.1	1501.7	1045.9	1318.3
47.5°	766.3	777.2	949.7	953.3	815.3	838.9	1795.9	1750.5	1599.8	1120.4	1376.4
50°	940.6	947.9	1009.6	967.9	900.7	1062.3	2139.1	2249.8	2184.5	1387.3	1452.7
52.5°	1291.1	1323.8	1381.9	1418.2	1398.2	1785.0	2869.1	2849.1	2794.6	2082.8	1982.9
55°	1672.4	1699.6	1781.4	2001.1	2168.1	2672.9	3568.2	3985.8	3982.2	3382.9	3090.6
57.5°	2019.2	2021.0	2031.9	2302.5	2560.4	3490.1	4674.0	6208.4	6346.4	5404.0	4425.2
60°	2320.7	2315.2	2222.6	2464.1	2778.3	4327.2	6025.0	8055.1	8082.4	6871.2	5133.4
62.5°	2402.4	2386.0	2251.7	2476.8	2745.6	4343.5	6370.0	7835.4	7804.6	6974.7	5226.0
65°	2331.6	2315.2	2144.5	2346.1	2473.2	3947.7	5883.4	6738.6	6687.8	6371.8	4975.4
67.5°	2226.2	2237.1	2068.3	2222.6	2309.8	3702.5	5371.3	5798.0	5783.5	5937.9	4766.6
70°	2073.7	2082.8	1928.4	2119.1	2246.2	3546.4	4881.0	5344.1	5318.6	5545.6	4459.7
72.5°	2079.2	2106.4	1923.0	2066.4	2199.0	3332.1	4659.5	5187.9	5113.5	5148.0	4091.1
75°	2093.7	2130.0	1935.7	2064.6	2188.1	3254.0	4634.1	5200.6	5106.2	5004.5	3951.3
77.5°	2099.1	2151.8	1943.0	2084.6	2191.7	3146.9	4576.0	5137.1	5048.1	4866.5	3786.1
80°	2055.5	2111.8	1912.1	2086.4	2168.1	2934.4	4428.9	5126.2	5059.0	4848.3	3718.9
82.5°	1968.4	2024.7	1852.2	1995.6	2122.7	2718.3	4221.9	4913.7	4910.1	4674.0	3577.2
85°	1777.7	1839.5	1708.7	1841.3	1997.4	2431.4	3804.2	4552.4	4652.2	4461.6	3386.6
87.5°	1594.3	1656.1	1587.1	1661.5	1819.5	2113.7	3268.5	3929.5	4116.5	3958.6	2909.0
90°	1385.5	1449.1	1392.8	1363.7	1490.8	1686.9	2613.0	3056.1	3232.2	3136.0	2140.9
92.5°	1109.5	1164.0	1111.3	1044.1	1120.4	1238.4	1941.2	2139.1	2180.8	2088.2	1403.7
95°	838.9	878.9	831.7	764.5	773.6	848.0	1338.3	1401.8	1390.9	1280.2	891.6
97.5°	582.9	606.5	575.6	528.4	544.8	592.0	886.1	878.9	878.9	782.6	582.9
100°	404.9	414.0	399.5	377.7	390.4	421.3	595.6	593.8	575.6	528.4	424.9
102.5°	321.4	323.2	308.7	294.2	286.9	316.0	430.4	428.5	432.2	410.4	332.3
105°	283.3	281.5	268.7	256.0	241.5	270.6	341.4	355.9	354.1	335.9	285.1
107.5°	259.7	257.9	245.1	234.2	221.5	247.0	296.0	316.0	314.1	312.3	268.7
110°	241.5	239.7	228.8	217.9	207.0	236.1	277.8	308.7	308.7	308.7	272.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
112.5°	228.8	228.8	219.7	210.6	201.6	234.2	266.9	303.2	303.2	312.3	285.1
115°	221.5	219.7	212.5	207.0	199.7	236.1	263.3	299.6	301.4	314.1	283.3
117.5°	216.1	214.3	208.8	201.6	197.9	232.4	265.1	306.9	305.1	325.0	277.8
120°	207.0	203.4	196.1	188.8	185.2	214.3	257.9	297.8	294.2	303.2	256.0
122.5°	199.7	188.8	176.1	170.7	170.7	194.3	241.5	268.7	265.1	257.9	230.6
125°	183.4	172.5	161.6	159.8	161.6	181.6	230.6	247.0	248.8	243.3	217.9
127.5°	165.2	158.0	152.5	152.5	156.2	178.0	227.0	237.9	237.9	227.0	207.0
130°	156.2	154.3	150.7	150.7	158.0	179.8	221.5	225.2	225.2	210.6	201.6
132.5°	152.5	148.9	145.3	145.3	152.5	174.3	207.0	214.3	212.5	197.9	190.7
135°	145.3	143.5	139.8	139.8	148.9	170.7	194.3	201.6	199.7	181.6	176.1
137.5°	141.6	138.0	138.0	138.0	147.1	168.9	183.4	188.8	187.0	168.9	163.4
140°	136.2	134.4	130.7	130.7	143.5	163.4	172.5	174.3	172.5	158.0	152.5
142.5°	127.1	125.3	123.5	127.1	139.8	154.3	161.6	161.6	159.8	150.7	143.5
145°	121.7	119.8	118.0	127.1	138.0	145.3	152.5	147.1	147.1	141.6	134.4
147.5°	116.2	114.4	114.4	121.7	130.7	130.7	136.2	134.4	136.2	134.4	127.1
150°	105.3	103.5	103.5	109.0	110.8	110.8	116.2	116.2	116.2	116.2	110.8
152.5°	92.6	90.8	92.6	94.4	94.4	94.4	98.1	99.9	99.9	98.1	96.2
155°	79.9	79.9	79.9	81.7	81.7	79.9	85.3	85.3	85.3	85.3	83.5
157.5°	70.8	70.8	70.8	70.8	70.8	69.0	72.6	72.6	74.5	72.6	72.6
160°	61.7	59.9	59.9	59.9	59.9	58.1	59.9	59.9	59.9	61.7	61.7
162.5°	49.0	47.2	47.2	47.2	47.2	43.6	47.2	45.4	47.2	47.2	49.0
165°	39.9	38.1	38.1	38.1	36.3	34.5	36.3	34.5	34.5	34.5	36.3
167.5°	30.9	30.9	29.1	30.9	29.1	25.4	25.4	23.6	23.6	23.6	23.6
170°	23.6	21.8	20.0	21.8	20.0	16.3	16.3	14.5	14.5	12.7	12.7
172.5°	16.3	14.5	12.7	14.5	12.7	9.1	9.1	5.4	5.4	5.4	5.4
175°	14.5	12.7	10.9	12.7	10.9	7.3	5.4	3.6	3.6	3.6	3.6
177.5°	14.5	12.7	10.9	12.7	10.9	7.3	5.4	3.6	3.6	3.6	3.6
180°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	107.1	107.1	107.1	107.1	107.1	107.1	107.1	107.1	107.1	107.1	107.1
2.5°	109.0	107.1	105.3	109.0	107.1	109.0	110.8	112.6	112.6	110.8	110.8
5°	125.3	123.5	119.8	118.0	114.4	114.4	114.4	118.0	118.0	116.2	118.0
7.5°	148.9	145.3	139.8	136.2	130.7	130.7	128.9	132.6	134.4	130.7	132.6
10°	167.1	165.2	158.0	152.5	147.1	145.3	145.3	147.1	147.1	145.3	145.3
12.5°	183.4	179.8	172.5	167.1	159.8	158.0	158.0	159.8	159.8	158.0	158.0
15°	207.0	196.1	188.8	183.4	176.1	174.3	172.5	174.3	176.1	172.5	172.5
17.5°	239.7	227.0	210.6	196.1	188.8	192.5	194.3	196.1	194.3	188.8	188.8
20°	257.9	250.6	228.8	217.9	208.8	208.8	208.8	208.8	208.8	207.0	208.8
22.5°	270.6	259.7	232.4	225.2	219.7	223.4	227.0	228.8	228.8	227.0	227.0
25°	328.7	288.7	261.5	256.0	248.8	250.6	247.0	247.0	248.8	247.0	250.6
27.5°	452.1	386.8	325.0	303.2	297.8	297.8	301.4	301.4	301.4	301.4	299.6
30°	542.9	466.7	365.0	335.9	332.3	348.6	357.7	365.0	361.4	355.9	355.9
32.5°	557.5	473.9	372.3	361.4	370.4	383.1	392.2	397.7	403.1	401.3	399.5
35°	526.6	437.6	366.8	381.3	388.6	395.9	397.7	394.0	410.4	417.6	419.5
37.5°	588.3	490.3	426.7	437.6	428.5	421.3	424.9	426.7	448.5	459.4	470.3
40°	751.8	592.0	484.8	479.4	473.9	490.3	512.1	523.0	521.2	513.9	515.7
42.5°	909.7	691.8	546.6	544.8	542.9	572.0	606.5	604.7	588.3	575.6	575.6
45°	1071.4	788.1	644.6	646.4	642.8	653.7	662.8	655.5	657.3	661.0	664.6
47.5°	1171.2	875.2	706.4	700.9	677.3	699.1	724.5	708.2	702.7	693.7	697.3
50°	1194.8	897.0	742.7	782.6	760.8	744.5	717.3	706.4	726.3	740.9	751.8
52.5°	1552.6	1107.7	927.9	991.5	962.4	904.3	898.8	880.7	902.5	904.3	917.0
55°	2602.1	1775.9	1278.4	1340.1	1341.9	1321.9	1412.7	1361.9	1316.5	1296.5	1289.3
57.5°	4102.0	2745.6	1654.2	1732.3	1806.8	1877.6	2001.1	1897.6	1766.8	1750.5	1768.6
60°	5253.3	3876.9	2110.0	2329.7	2429.6	2433.2	2449.6	2347.9	2268.0	2275.3	2300.7
62.5°	5500.2	4821.1	2687.5	2778.3	2787.3	2720.2	2749.2	2814.6	2702.0	2613.0	2636.6
65°	5335.0	5195.2	2876.3	2640.3	2625.7	2636.6	2834.6	3016.1	2789.2	2564.0	2564.0
67.5°	5015.4	4910.1	2683.8	2375.1	2415.1	2538.6	2789.2	2879.9	2638.4	2398.7	2398.7
70°	4674.0	4463.4	2467.7	2164.5	2262.6	2406.0	2569.4	2576.7	2435.1	2264.4	2253.5
72.5°	4305.4	4114.7	2375.1	2102.8	2148.2	2173.6	2262.6	2318.8	2302.5	2191.7	2189.9
75°	4196.4	4042.1	2373.3	2073.7	2046.5	2037.4	2099.1	2220.8	2277.1	2211.7	2215.3
77.5°	4031.2	3938.6	2262.6	1952.0	1923.0	1923.0	1955.7	2053.7	2139.1	2111.8	2120.9
80°	3916.8	3777.0	2093.7	1819.5	1779.5	1785.0	1788.6	1855.8	1935.7	1939.3	1939.3
82.5°	3697.1	3433.8	1837.6	1621.6	1594.3	1601.6	1588.9	1627.0	1648.8	1676.0	1670.6
85°	3335.7	2963.5	1552.6	1405.5	1361.9	1347.4	1336.5	1338.3	1351.0	1345.5	1323.8
87.5°	2794.6	2349.7	1238.4	1153.1	1102.2	1065.9	1051.4	1033.2	1031.4	1011.4	1018.7
90°	2062.8	1612.5	918.8	888.0	851.6	813.5	793.5	775.4	760.8	740.9	733.6
92.5°	1345.5	1038.7	671.9	655.5	631.9	610.1	601.0	592.0	588.3	572.0	577.4
95°	840.7	702.7	504.8	486.6	473.9	468.5	470.3	472.1	468.5	450.3	455.8
97.5°	561.1	508.4	394.0	381.3	368.6	366.8	368.6	372.3	374.1	361.4	365.0
100°	414.0	390.4	323.2	314.1	303.2	299.6	301.4	305.1	306.9	296.0	297.8
102.5°	328.7	317.8	279.6	276.0	263.3	259.7	263.3	265.1	266.9	259.7	259.7
105°	288.7	288.7	257.9	256.0	247.0	243.3	245.1	247.0	248.8	241.5	241.5
107.5°	277.8	279.6	248.8	250.6	245.1	243.3	247.0	250.6	248.8	243.3	241.5
110°	286.9	290.5	248.8	254.2	256.0	259.7	266.9	268.7	268.7	265.1	266.9



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	296.0	301.4	245.1	257.9	270.6	279.6	292.4	299.6	296.0	294.2	296.0
115°	288.7	292.4	228.8	248.8	272.4	285.1	288.7	288.7	279.6	279.6	281.5
117.5°	279.6	286.9	212.5	228.8	245.1	256.0	254.2	248.8	237.9	234.2	245.1
120°	259.7	281.5	203.4	207.0	208.8	212.5	207.0	201.6	192.5	190.7	197.9
122.5°	239.7	259.7	187.0	183.4	181.6	181.6	179.8	178.0	172.5	174.3	181.6
125°	223.4	234.2	170.7	165.2	163.4	165.2	165.2	165.2	161.6	158.0	158.0
127.5°	210.6	214.3	161.6	154.3	152.5	152.5	152.5	154.3	152.5	147.1	147.1
130°	203.4	201.6	156.2	143.5	141.6	143.5	143.5	145.3	141.6	138.0	138.0
132.5°	188.8	185.2	148.9	136.2	134.4	136.2	136.2	136.2	132.6	128.9	128.9
135°	172.5	168.9	139.8	127.1	125.3	127.1	127.1	128.9	125.3	121.7	121.7
137.5°	159.8	156.2	130.7	119.8	118.0	118.0	119.8	119.8	118.0	114.4	114.4
140°	148.9	145.3	121.7	112.6	109.0	110.8	110.8	110.8	109.0	105.3	105.3
142.5°	139.8	138.0	112.6	103.5	99.9	101.7	101.7	103.5	99.9	96.2	96.2
145°	132.6	128.9	105.3	94.4	92.6	92.6	92.6	94.4	90.8	87.2	87.2
147.5°	125.3	121.7	96.2	85.3	83.5	83.5	83.5	83.5	81.7	78.1	76.3
150°	110.8	109.0	89.0	78.1	74.5	74.5	74.5	72.6	69.0	65.4	65.4
152.5°	94.4	92.6	78.1	69.0	65.4	65.4	63.6	63.6	59.9	58.1	56.3
155°	81.7	81.7	70.8	61.7	58.1	56.3	54.5	54.5	52.7	50.8	49.0
157.5°	72.6	70.8	63.6	56.3	49.0	49.0	47.2	47.2	45.4	43.6	41.8
160°	61.7	61.7	54.5	47.2	41.8	39.9	39.9	38.1	36.3	34.5	34.5
162.5°	49.0	49.0	43.6	38.1	32.7	32.7	30.9	30.9	29.1	27.2	25.4
165°	34.5	34.5	32.7	29.1	25.4	23.6	23.6	23.6	21.8	20.0	20.0
167.5°	23.6	23.6	21.8	20.0	18.2	16.3	18.2	18.2	16.3	14.5	14.5
170°	12.7	12.7	10.9	10.9	9.1	9.1	10.9	12.7	10.9	9.1	7.3
172.5°	5.4	5.4	5.4	5.4	3.6	5.4	7.3	9.1	7.3	5.4	5.4
175°	3.6	3.6	5.4	5.4	3.6	5.4	7.3	9.1	7.3	5.4	5.4
177.5°	3.6	3.6	5.4	5.4	3.6	5.4	7.3	9.1	7.3	5.4	5.4
180°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3

(END OF REPORT)