

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: P588396

Luminaire Tested: **GAT-CA6-LED-120-722-U-33-5-X-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588396
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-120-722-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: 13684 lumens
Efficiency: N/A
Efficacy: 114.7 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

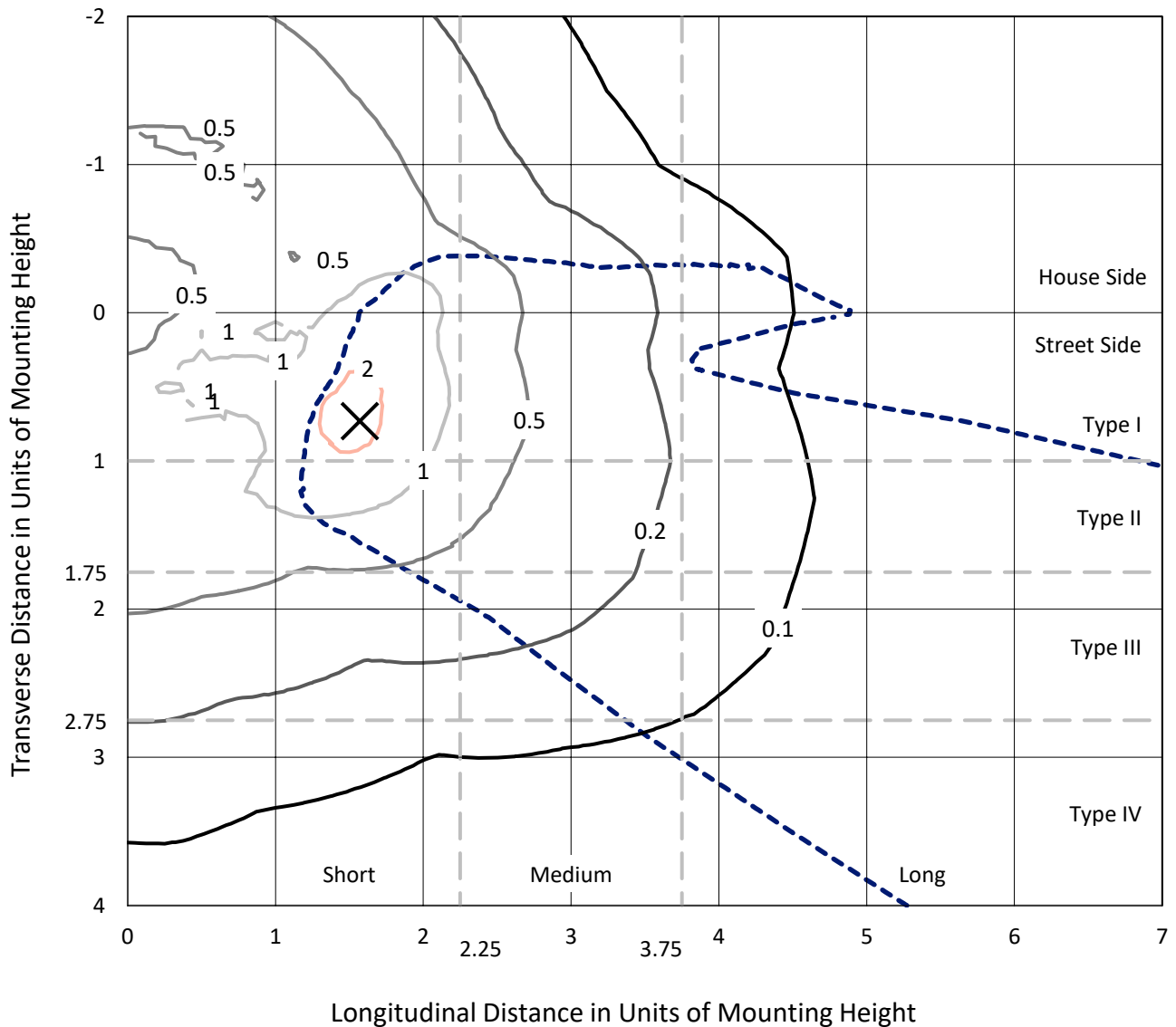
Input Watts (W): 119.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

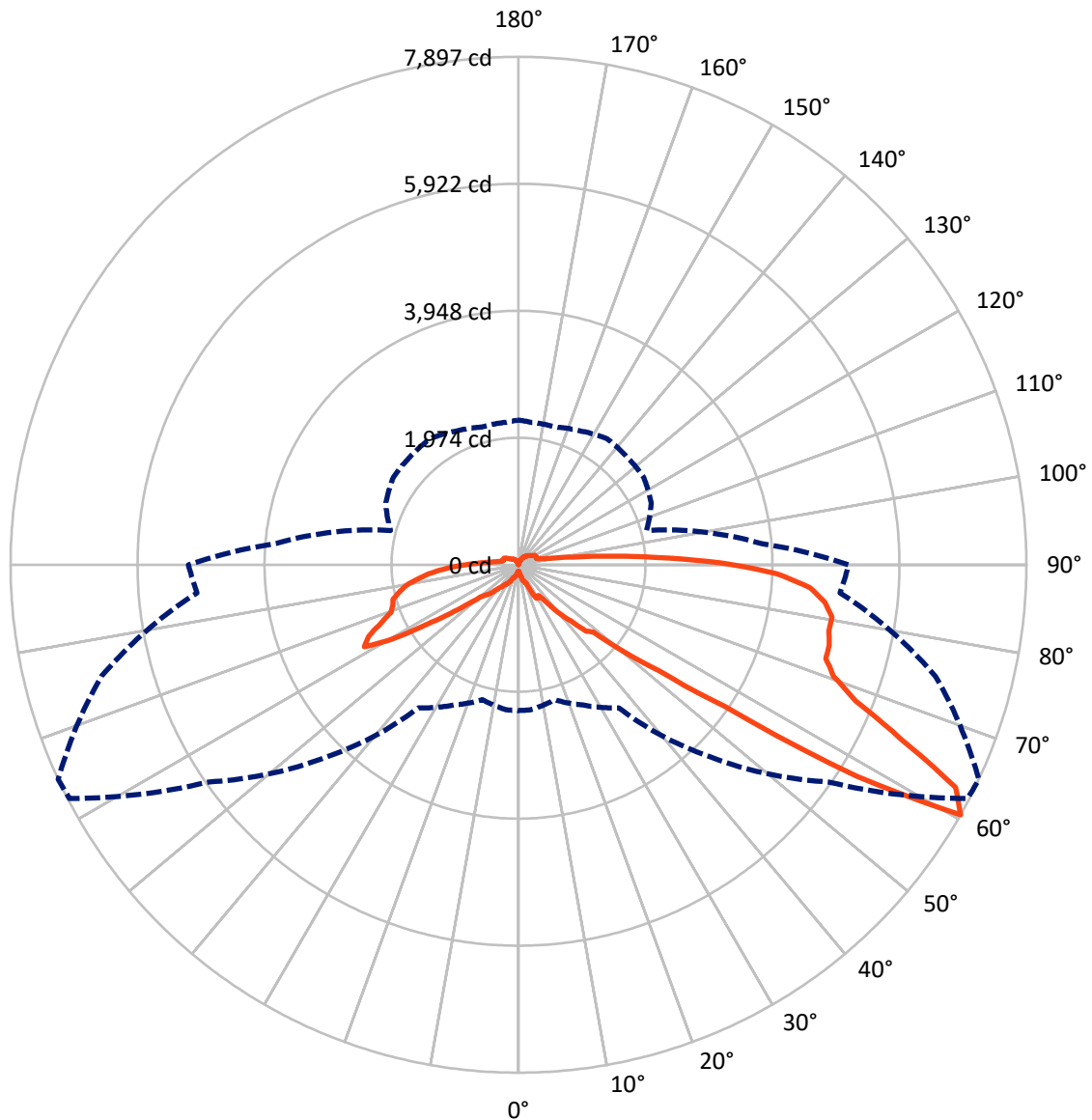
× Max cd
 - - - 1/2 Max cd



Based on 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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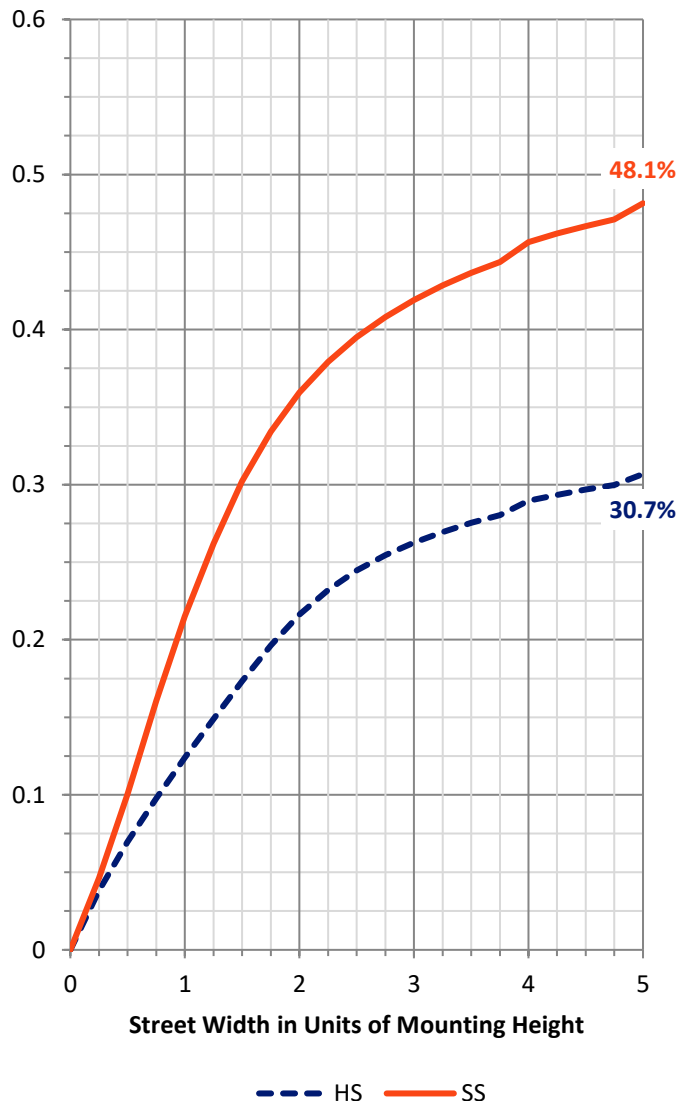
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4563.3	730.8	5294.1
	% Fixture	33.3	5.3	38.7
Street Side	Lumens	7300.7	1089.2	8389.9
	% Fixture	53.4	8.0	61.3
Total	Lumens	11864.0	1820.0	13684.0
	% Fixture	86.7	13.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.1	0.1
10°-20°	58.4	0.4
20°-30°	167.1	1.2
30°-40°	359.9	2.6
40°-50°	681.1	5.0
50°-60°	1902.6	13.9
60°-70°	3391.9	24.8
70°-80°	2969.6	21.7
80°-90°	2320.3	17.0
90°-100°	877.2	6.4
100°-110°	301.7	2.2
110°-120°	246.7	1.8
120°-130°	165.8	1.2
130°-140°	113.8	0.8
140°-150°	71.5	0.5
150°-160°	33.2	0.2
160°-170°	9.4	0.1
170°-180°	0.8	0.0
0°-90°	11864.0	86.7
0°-180°	13684.0	100.0

Coefficient of Utilization



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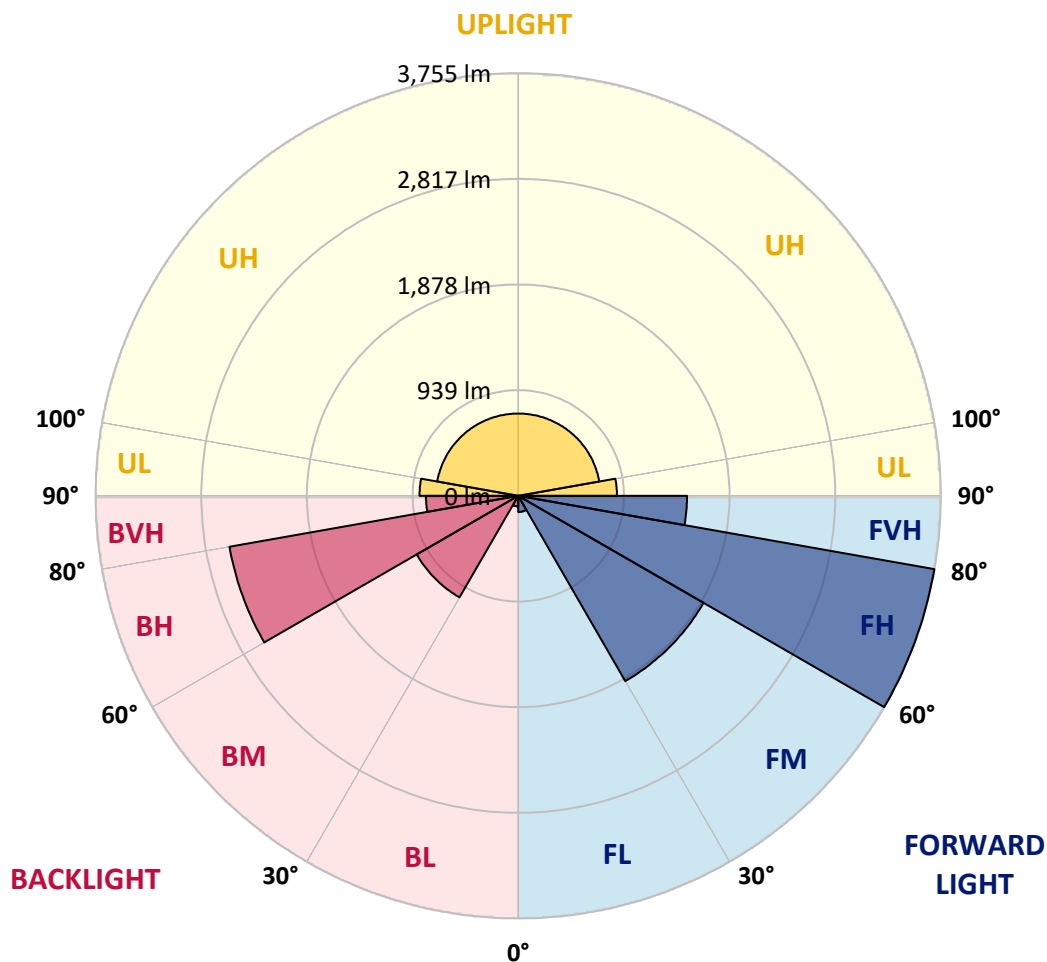
CATALOG NUMBER: GAT-CA6-LED-120-722-U-33-5-X-X

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	144.2	1.1			
FM (30°-60°)	1901.3	13.9			
FH (60°-80°)	3755.5	27.4			G2/5000
FVH (80°-90°)	1499.8	11.0			G5
BL (0°-30°)	94.5	0.7	B0/110		
BM (30°-60°)	1042.3	7.6	B2/2500		
BH (60°-80°)	2606.0	19.0	B4/5000		G4/5000
BVH (80°-90°)	820.5	6.0			G5
UL (90°-100°)	877.2	6.4		U4/1000	
UH (100°-180°)	730.8	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°	104.7	104.7	104.7	104.7	104.7	104.7	104.7	104.7	104.7	104.7	104.7
2.5°	120.6	117.1	113.5	113.5	111.8	110.0	110.0	106.4	108.2	106.4	106.4
5°	141.9	140.2	136.6	138.4	134.8	133.1	133.1	131.3	129.5	127.7	122.4
7.5°	165.0	165.0	166.8	168.5	163.2	157.9	156.1	152.6	152.6	150.8	147.3
10°	189.8	188.1	181.0	181.0	177.4	173.9	175.6	173.9	173.9	173.9	166.8
12.5°	196.9	195.2	189.8	189.8	189.8	188.1	195.2	193.4	195.2	193.4	182.7
15°	221.8	220.0	218.2	220.0	227.1	241.3	259.0	251.9	253.7	250.1	211.1
17.5°	232.4	237.7	241.3	243.1	250.1	250.1	253.7	251.9	259.0	264.3	241.3
20°	269.7	266.1	269.7	282.1	299.8	301.6	296.3	296.3	299.8	301.6	257.2
22.5°	285.6	283.9	298.1	287.4	287.4	296.3	328.2	317.6	317.6	314.0	276.8
25°	370.8	377.9	392.1	409.8	452.4	464.8	500.3	461.3	466.6	411.6	351.3
27.5°	445.3	450.6	534.0	608.5	642.2	624.5	654.6	581.9	589.0	596.1	512.7
30°	468.4	479.0	599.6	654.6	699.0	663.5	702.5	606.7	601.4	642.2	608.5
32.5°	450.6	461.3	589.0	612.1	658.2	789.5	739.8	585.5	569.5	589.0	629.8
35°	495.0	502.1	578.4	523.4	565.9	1103.5	968.7	683.0	651.1	542.9	603.2
37.5°	594.3	594.3	684.8	723.8	755.8	1302.2	1272.0	849.8	825.0	635.1	697.2
40°	720.3	716.7	828.5	855.1	869.3	1179.8	1538.2	1084.0	1029.0	746.9	908.3
42.5°	796.6	789.5	880.0	908.3	908.3	998.8	1740.4	1319.9	1192.2	871.1	1110.6
45°	826.7	833.8	950.9	915.4	942.1	1025.4	1956.8	1646.4	1467.2	1021.9	1288.0
47.5°	748.7	759.3	927.9	931.4	796.6	819.6	1754.6	1710.2	1563.0	1094.6	1344.8
50°	919.0	926.1	986.4	945.6	880.0	1037.9	2089.9	2198.1	2134.3	1355.4	1419.3
52.5°	1261.4	1293.3	1350.1	1385.6	1366.1	1743.9	2803.1	2783.6	2730.4	2034.9	1937.3
55°	1634.0	1660.6	1740.4	1955.1	2118.3	2611.5	3486.1	3894.2	3890.6	3305.2	3019.5
57.5°	1972.8	1974.6	1985.2	2249.6	2501.5	3409.8	4566.6	6065.7	6200.5	5279.8	4323.5
60°	2267.3	2262.0	2171.5	2407.5	2714.4	4227.7	5886.5	7870.0	7896.6	6713.2	5015.4
62.5°	2347.1	2331.2	2199.9	2419.9	2682.5	4243.7	6223.6	7655.3	7625.1	6814.4	5105.9
65°	2278.0	2262.0	2095.2	2292.1	2416.3	3856.9	5748.1	6583.7	6534.0	6225.4	4861.1
67.5°	2175.1	2185.7	2020.7	2171.5	2256.7	3617.4	5247.8	5664.7	5650.5	5801.3	4657.0
70°	2026.0	2034.9	1884.1	2070.4	2194.6	3464.8	4768.8	5221.2	5196.4	5418.1	4357.2
72.5°	2031.4	2058.0	1878.8	2018.9	2148.4	3255.5	4552.4	5068.6	4995.9	5029.6	3997.1
75°	2045.5	2081.0	1891.2	2017.2	2137.8	3179.2	4527.5	5081.1	4988.8	4889.4	3860.5
77.5°	2050.9	2102.3	1898.3	2036.7	2141.4	3074.5	4470.8	5019.0	4932.0	4754.6	3699.0
80°	2008.3	2063.3	1868.1	2038.5	2118.3	2867.0	4327.1	5008.3	4942.7	4736.9	3633.4
82.5°	1923.1	1978.1	1809.6	1949.7	2073.9	2655.8	4124.8	4800.7	4797.2	4566.6	3495.0
85°	1736.9	1797.2	1669.4	1798.9	1951.5	2375.5	3716.8	4447.7	4545.3	4359.0	3308.7
87.5°	1557.7	1618.0	1550.6	1623.3	1777.7	2065.1	3193.4	3839.2	4021.9	3867.6	2842.1
90°	1353.6	1415.7	1360.7	1332.4	1456.5	1648.1	2552.9	2985.8	3157.9	3063.9	2091.7
92.5°	1084.0	1137.2	1085.8	1020.1	1094.6	1209.9	1896.5	2089.9	2130.7	2040.2	1371.4
95°	819.6	858.7	812.5	746.9	755.8	828.5	1307.5	1369.6	1359.0	1250.7	871.1
97.5°	569.5	592.6	562.4	516.3	532.2	578.4	865.8	858.7	858.7	764.6	569.5
100°	395.6	404.5	390.3	369.0	381.4	411.6	581.9	580.1	562.4	516.3	415.1
102.5°	314.0	315.8	301.6	287.4	280.3	308.7	420.5	418.7	422.2	400.9	324.7
105°	276.8	275.0	262.6	250.1	236.0	264.3	333.5	347.7	346.0	328.2	278.5
107.5°	253.7	251.9	239.5	228.9	216.4	241.3	289.2	308.7	306.9	305.1	262.6
110°	236.0	234.2	223.5	212.9	202.2	230.6	271.4	301.6	301.6	301.6	266.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
112.5°	223.5	223.5	214.7	205.8	196.9	228.9	260.8	296.3	296.3	305.1	278.5
115°	216.4	214.7	207.6	202.2	195.2	230.6	257.2	292.7	294.5	306.9	276.8
117.5°	211.1	209.3	204.0	196.9	193.4	227.1	259.0	299.8	298.1	317.6	271.4
120°	202.2	198.7	191.6	184.5	181.0	209.3	251.9	291.0	287.4	296.3	250.1
122.5°	195.2	184.5	172.1	166.8	166.8	189.8	236.0	262.6	259.0	251.9	225.3
125°	179.2	168.5	157.9	156.1	157.9	177.4	225.3	241.3	243.1	237.7	212.9
127.5°	161.4	154.3	149.0	149.0	152.6	173.9	221.8	232.4	232.4	221.8	202.2
130°	152.6	150.8	147.3	147.3	154.3	175.6	216.4	220.0	220.0	205.8	196.9
132.5°	149.0	145.5	141.9	141.9	149.0	170.3	202.2	209.3	207.6	193.4	186.3
135°	141.9	140.2	136.6	136.6	145.5	166.8	189.8	196.9	195.2	177.4	172.1
137.5°	138.4	134.8	134.8	134.8	143.7	165.0	179.2	184.5	182.7	165.0	159.7
140°	133.1	131.3	127.7	127.7	140.2	159.7	168.5	170.3	168.5	154.3	149.0
142.5°	124.2	122.4	120.6	124.2	136.6	150.8	157.9	157.9	156.1	147.3	140.2
145°	118.9	117.1	115.3	124.2	134.8	141.9	149.0	143.7	143.7	138.4	131.3
147.5°	113.5	111.8	111.8	118.9	127.7	127.7	133.1	131.3	133.1	131.3	124.2
150°	102.9	101.1	101.1	106.4	108.2	108.2	113.5	113.5	113.5	113.5	108.2
152.5°	90.5	88.7	90.5	92.3	92.3	92.3	95.8	97.6	97.6	95.8	94.0
155°	78.1	78.1	78.1	79.8	79.8	78.1	83.4	83.4	83.4	83.4	81.6
157.5°	69.2	69.2	69.2	69.2	69.2	67.4	71.0	71.0	72.7	71.0	71.0
160°	60.3	58.5	58.5	58.5	58.5	56.8	58.5	58.5	58.5	60.3	60.3
162.5°	47.9	46.1	46.1	46.1	46.1	42.6	46.1	44.4	46.1	46.1	47.9
165°	39.0	37.3	37.3	37.3	35.5	33.7	35.5	33.7	33.7	33.7	35.5
167.5°	30.2	30.2	28.4	30.2	28.4	24.8	24.8	23.1	23.1	23.1	23.1
170°	23.1	21.3	19.5	21.3	19.5	16.0	16.0	14.2	14.2	12.4	12.4
172.5°	16.0	14.2	12.4	14.2	12.4	8.9	8.9	5.3	5.3	5.3	5.3
175°	14.2	12.4	10.6	12.4	10.6	7.1	5.3	3.5	3.5	3.5	3.5
177.5°	14.2	12.4	10.6	12.4	10.6	7.1	5.3	3.5	3.5	3.5	3.5
180°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	104.7	104.7	104.7	104.7	104.7	104.7	104.7	104.7	104.7	104.7	104.7
2.5°	106.4	104.7	102.9	106.4	104.7	106.4	108.2	110.0	110.0	108.2	108.2
5°	122.4	120.6	117.1	115.3	111.8	111.8	111.8	115.3	115.3	113.5	115.3
7.5°	145.5	141.9	136.6	133.1	127.7	127.7	126.0	129.5	131.3	127.7	129.5
10°	163.2	161.4	154.3	149.0	143.7	141.9	141.9	143.7	143.7	141.9	141.9
12.5°	179.2	175.6	168.5	163.2	156.1	154.3	154.3	156.1	156.1	154.3	154.3
15°	202.2	191.6	184.5	179.2	172.1	170.3	168.5	170.3	172.1	168.5	168.5
17.5°	234.2	221.8	205.8	191.6	184.5	188.1	189.8	191.6	189.8	184.5	184.5
20°	251.9	244.8	223.5	212.9	204.0	204.0	204.0	204.0	204.0	202.2	204.0
22.5°	264.3	253.7	227.1	220.0	214.7	218.2	221.8	223.5	223.5	221.8	221.8
25°	321.1	282.1	255.5	250.1	243.1	244.8	241.3	241.3	243.1	241.3	244.8
27.5°	441.8	377.9	317.6	296.3	291.0	291.0	294.5	294.5	294.5	294.5	292.7
30°	530.5	455.9	356.6	328.2	324.7	340.6	349.5	356.6	353.0	347.7	347.7
32.5°	544.7	463.0	363.7	353.0	361.9	374.3	383.2	388.5	393.9	392.1	390.3
35°	514.5	427.6	358.4	372.6	379.7	386.8	388.5	385.0	400.9	408.0	409.8
37.5°	574.8	479.0	416.9	427.6	418.7	411.6	415.1	416.9	438.2	448.8	459.5
40°	734.5	578.4	473.7	468.4	463.0	479.0	500.3	510.9	509.2	502.1	503.8
42.5°	888.8	675.9	534.0	532.2	530.5	558.8	592.6	590.8	574.8	562.4	562.4
45°	1046.7	770.0	629.8	631.6	628.0	638.7	647.6	640.5	642.2	645.8	649.3
47.5°	1144.3	855.1	690.1	684.8	661.7	683.0	707.9	691.9	686.6	677.7	681.3
50°	1167.4	876.4	725.6	764.6	743.4	727.4	700.8	690.1	709.6	723.8	734.5
52.5°	1516.9	1082.2	906.6	968.7	940.3	883.5	878.2	860.4	881.7	883.5	895.9
55°	2542.3	1735.1	1249.0	1309.3	1311.1	1291.6	1380.3	1330.6	1286.2	1266.7	1259.6
57.5°	4007.7	2682.5	1616.2	1692.5	1765.2	1834.4	1955.1	1853.9	1726.2	1710.2	1728.0
60°	5132.5	3787.7	2061.5	2276.2	2373.8	2377.3	2393.3	2293.9	2215.9	2223.0	2247.8
62.5°	5373.8	4710.3	2625.7	2714.4	2723.3	2657.6	2686.0	2749.9	2639.9	2552.9	2576.0
65°	5212.3	5075.7	2810.2	2579.6	2565.4	2576.0	2769.4	2946.8	2725.0	2505.0	2505.0
67.5°	4900.1	4797.2	2622.1	2320.5	2359.6	2480.2	2725.0	2813.7	2577.8	2343.6	2343.6
70°	4566.6	4360.8	2411.0	2114.7	2210.5	2350.7	2510.4	2517.5	2379.1	2212.3	2201.7
72.5°	4206.4	4020.1	2320.5	2054.4	2098.8	2123.6	2210.5	2265.5	2249.6	2141.4	2139.6
75°	4100.0	3949.2	2318.8	2026.0	1999.4	1990.6	2050.9	2169.7	2224.7	2160.9	2164.4
77.5°	3938.5	3848.0	2210.5	1907.2	1878.8	1878.8	1910.7	2006.5	2089.9	2063.3	2072.2
80°	3826.8	3690.1	2045.5	1777.7	1738.6	1743.9	1747.5	1813.1	1891.2	1894.7	1894.7
82.5°	3612.1	3354.8	1795.4	1584.3	1557.7	1564.8	1552.3	1589.6	1610.9	1637.5	1632.2
85°	3259.0	2895.3	1516.9	1373.2	1330.6	1316.4	1305.7	1307.5	1319.9	1314.6	1293.3
87.5°	2730.4	2295.7	1209.9	1126.6	1076.9	1041.4	1027.2	1009.5	1007.7	988.2	995.3
90°	2015.4	1575.4	897.7	867.5	832.1	794.8	775.3	757.5	743.4	723.8	716.7
92.5°	1314.6	1014.8	656.4	640.5	617.4	596.1	587.2	578.4	574.8	558.8	564.2
95°	821.4	686.6	493.2	475.5	463.0	457.7	459.5	461.3	457.7	440.0	445.3
97.5°	548.2	496.8	385.0	372.6	360.1	358.4	360.1	363.7	365.5	353.0	356.6
100°	404.5	381.4	315.8	306.9	296.3	292.7	294.5	298.1	299.8	289.2	291.0
102.5°	321.1	310.5	273.2	269.7	257.2	253.7	257.2	259.0	260.8	253.7	253.7
105°	282.1	282.1	251.9	250.1	241.3	237.7	239.5	241.3	243.1	236.0	236.0
107.5°	271.4	273.2	243.1	244.8	239.5	237.7	241.3	244.8	243.1	237.7	236.0
110°	280.3	283.9	243.1	248.4	250.1	253.7	260.8	262.6	262.6	259.0	260.8



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	289.2	294.5	239.5	251.9	264.3	273.2	285.6	292.7	289.2	287.4	289.2
115°	282.1	285.6	223.5	243.1	266.1	278.5	282.1	282.1	273.2	273.2	275.0
117.5°	273.2	280.3	207.6	223.5	239.5	250.1	248.4	243.1	232.4	228.9	239.5
120°	253.7	275.0	198.7	202.2	204.0	207.6	202.2	196.9	188.1	186.3	193.4
122.5°	234.2	253.7	182.7	179.2	177.4	177.4	175.6	173.9	168.5	170.3	177.4
125°	218.2	228.9	166.8	161.4	159.7	161.4	161.4	161.4	157.9	154.3	154.3
127.5°	205.8	209.3	157.9	150.8	149.0	149.0	149.0	150.8	149.0	143.7	143.7
130°	198.7	196.9	152.6	140.2	138.4	140.2	140.2	141.9	138.4	134.8	134.8
132.5°	184.5	181.0	145.5	133.1	131.3	133.1	133.1	133.1	129.5	126.0	126.0
135°	168.5	165.0	136.6	124.2	122.4	124.2	124.2	126.0	122.4	118.9	118.9
137.5°	156.1	152.6	127.7	117.1	115.3	115.3	117.1	117.1	115.3	111.8	111.8
140°	145.5	141.9	118.9	110.0	106.4	108.2	108.2	108.2	106.4	102.9	102.9
142.5°	136.6	134.8	110.0	101.1	97.6	99.4	99.4	101.1	97.6	94.0	94.0
145°	129.5	126.0	102.9	92.3	90.5	90.5	90.5	92.3	88.7	85.2	85.2
147.5°	122.4	118.9	94.0	83.4	81.6	81.6	81.6	81.6	79.8	76.3	74.5
150°	108.2	106.4	86.9	76.3	72.7	72.7	72.7	71.0	67.4	63.9	63.9
152.5°	92.3	90.5	76.3	67.4	63.9	63.9	62.1	62.1	58.5	56.8	55.0
155°	79.8	79.8	69.2	60.3	56.8	55.0	53.2	53.2	51.4	49.7	47.9
157.5°	71.0	69.2	62.1	55.0	47.9	47.9	46.1	46.1	44.4	42.6	40.8
160°	60.3	60.3	53.2	46.1	40.8	39.0	39.0	37.3	35.5	33.7	33.7
162.5°	47.9	47.9	42.6	37.3	31.9	31.9	30.2	30.2	28.4	26.6	24.8
165°	33.7	33.7	31.9	28.4	24.8	23.1	23.1	23.1	21.3	19.5	19.5
167.5°	23.1	23.1	21.3	19.5	17.7	16.0	17.7	17.7	16.0	14.2	14.2
170°	12.4	12.4	10.6	10.6	8.9	8.9	10.6	12.4	10.6	8.9	7.1
172.5°	5.3	5.3	5.3	5.3	3.5	5.3	7.1	8.9	7.1	5.3	5.3
175°	3.5	3.5	5.3	5.3	3.5	5.3	7.1	8.9	7.1	5.3	5.3
177.5°	3.5	3.5	5.3	5.3	3.5	5.3	7.1	8.9	7.1	5.3	5.3
180°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1

(END OF REPORT)