

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: P588524

Luminaire Tested: **GAT-CA6-LED-80-730-U-33-5-X-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588524
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-80-730-U-33-5-X-X
Description: GENERATIONS SERIES AVENUE WITH NO CAGE AND TYPE III REFRACTOR
Light Source: (6) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11397 lumens
Efficiency: N/A
Efficacy: 135.0 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

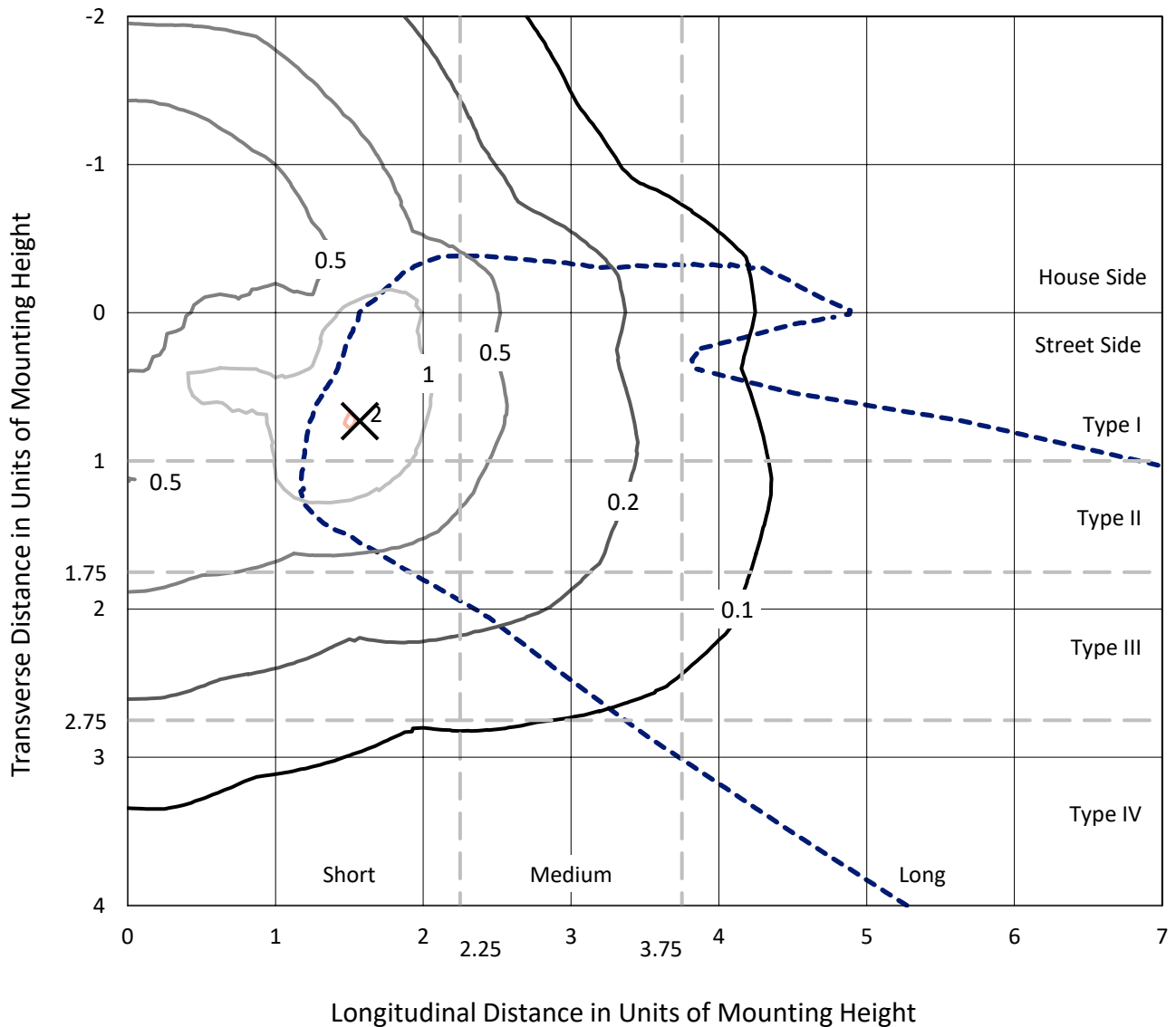
Input Watts (W): 84.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

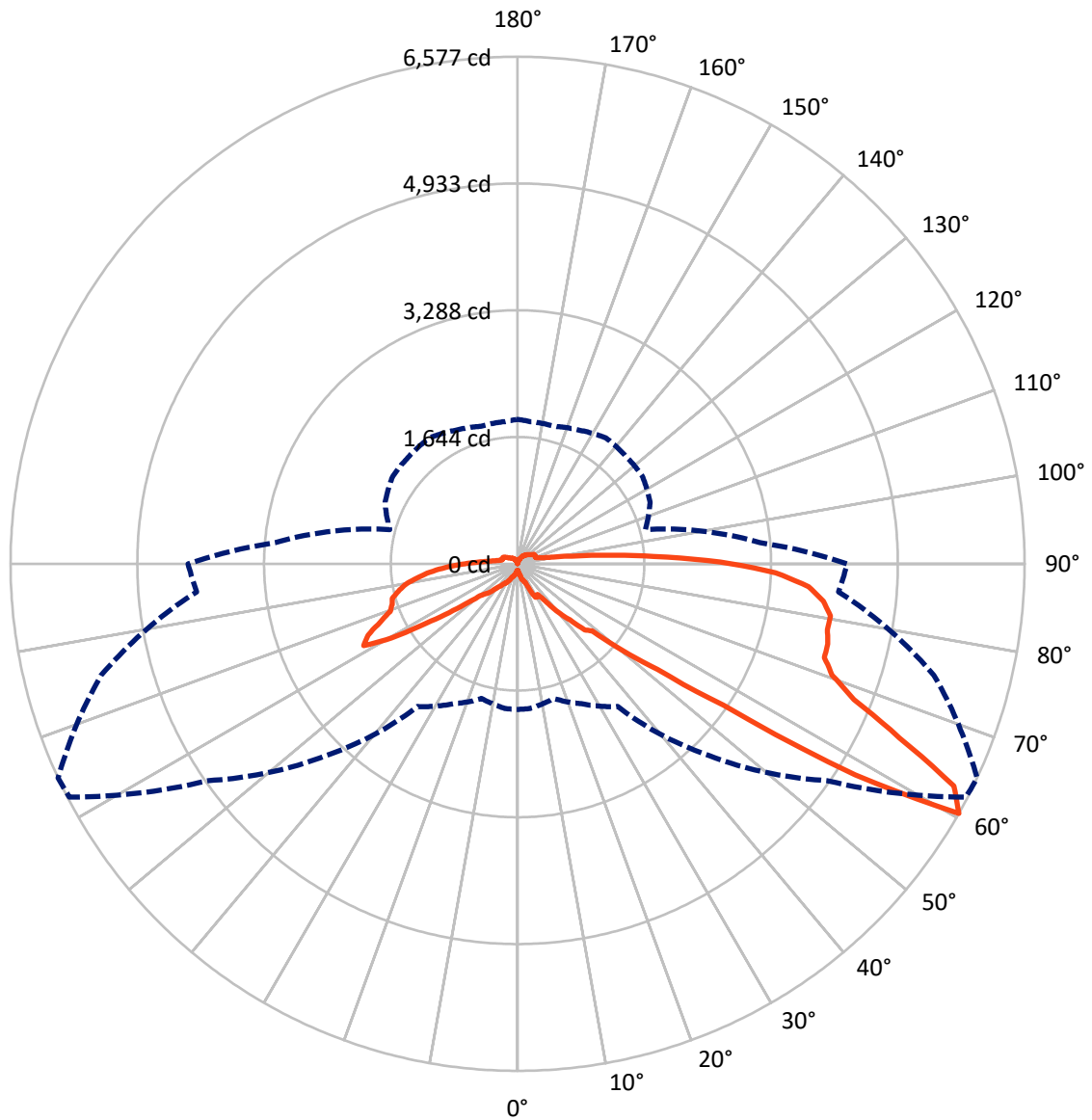
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2 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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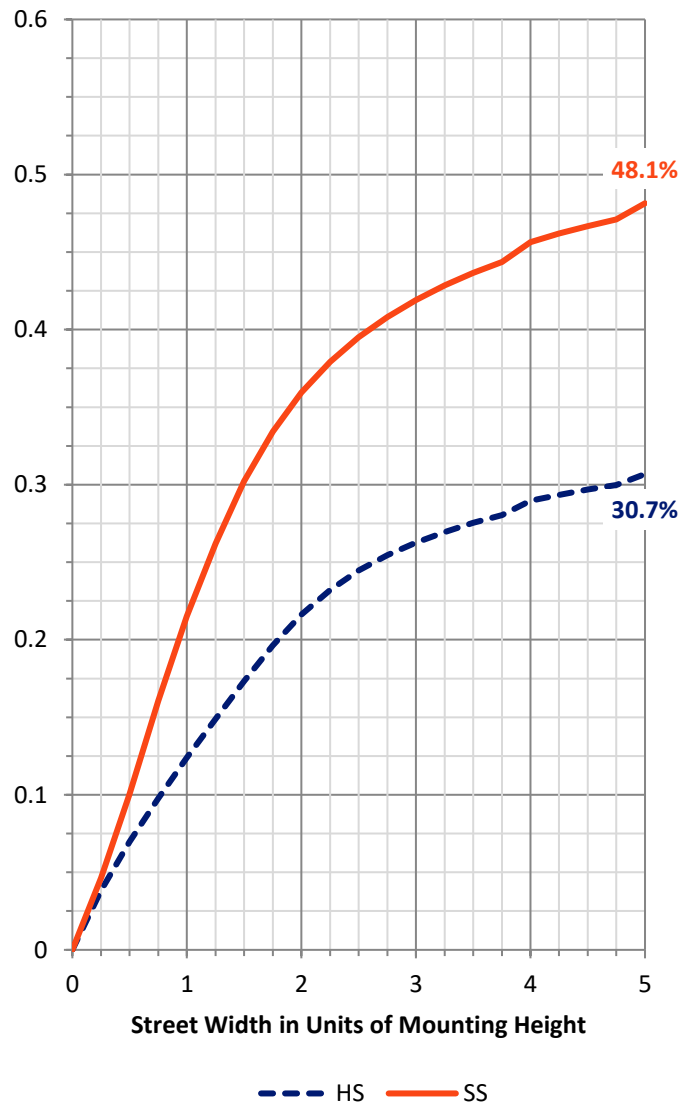
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3800.6	608.6	4409.3
	% Fixture	33.3	5.3	38.7
Street Side	Lumens	6080.5	907.2	6987.7
	% Fixture	53.4	8.0	61.3
Total	Lumens	9881.1	1515.8	11397.0
	% Fixture	86.7	13.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.9	0.1
10°-20°	48.7	0.4
20°-30°	139.2	1.2
30°-40°	299.8	2.6
40°-50°	567.2	5.0
50°-60°	1584.6	13.9
60°-70°	2825.0	24.8
70°-80°	2473.3	21.7
80°-90°	1932.5	17.0
90°-100°	730.6	6.4
100°-110°	251.3	2.2
110°-120°	205.5	1.8
120°-130°	138.1	1.2
130°-140°	94.7	0.8
140°-150°	59.6	0.5
150°-160°	27.6	0.2
160°-170°	7.8	0.1
170°-180°	0.7	0.0
0°-90°	9881.1	86.7
0°-180°	11397.0	100.0

Coefficient of Utilization



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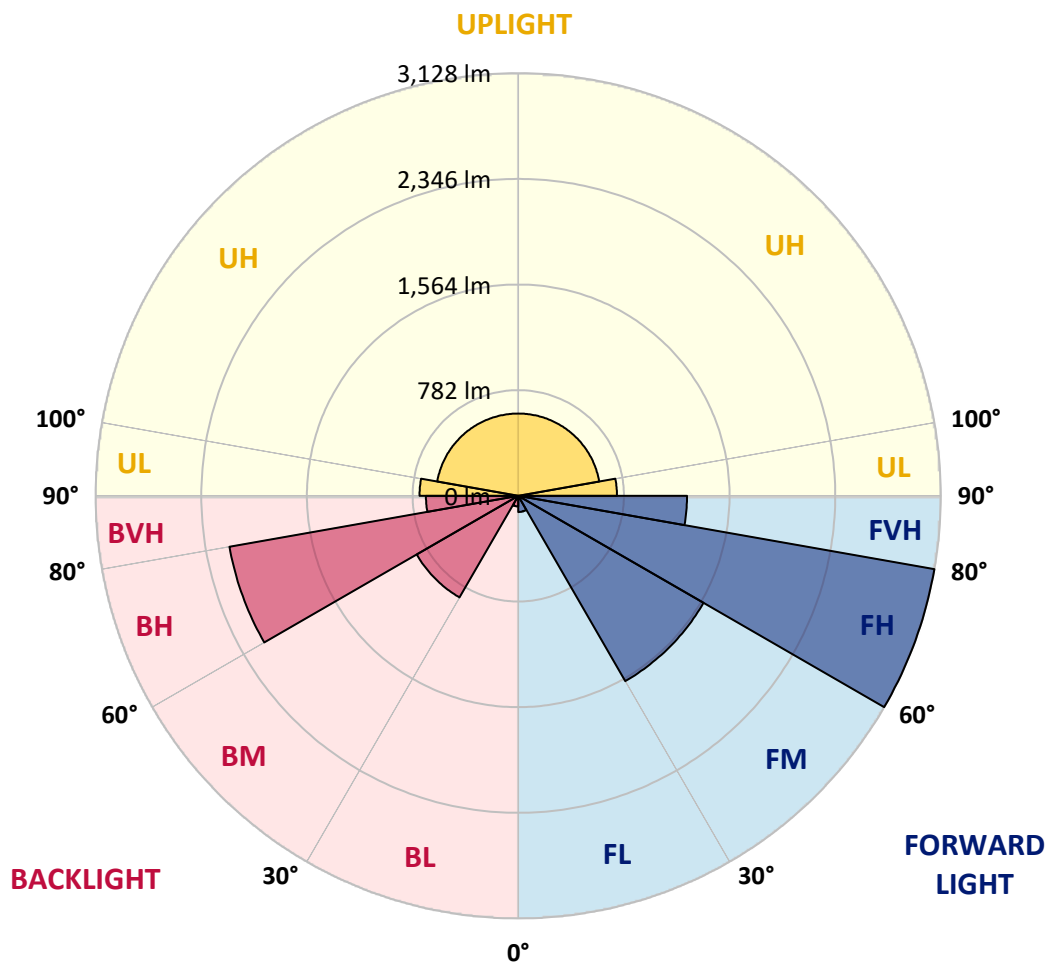
CATALOG NUMBER: GAT-CA6-LED-80-730-U-33-5-X-X

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	120.1	1.1			
FM (30°-60°)	1583.5	13.9			
FH (60°-80°)	3127.8	27.4			G2/5000
FVH (80°-90°)	1249.1	11.0			G5
BL (0°-30°)	78.7	0.7	B0/110		
BM (30°-60°)	868.1	7.6	B1/1000		
BH (60°-80°)	2170.4	19.0	B3/2500		G3/2500
BVH (80°-90°)	683.4	6.0			G4/750
UL (90°-100°)	730.6	6.4		U4/1000	
UH (100°-180°)	608.6	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°	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
2.5°	100.5	97.5	94.6	94.6	93.1	91.6	91.6	88.7	90.1	88.7	88.7
5°	118.2	116.7	113.8	115.3	112.3	110.8	110.8	109.3	107.9	106.4	102.0
7.5°	137.4	137.4	138.9	140.4	135.9	131.5	130.0	127.1	127.1	125.6	122.6
10°	158.1	156.6	150.7	150.7	147.8	144.8	146.3	144.8	144.8	144.8	138.9
12.5°	164.0	162.5	158.1	158.1	158.1	156.6	162.5	161.1	162.5	161.1	152.2
15°	184.7	183.2	181.7	183.2	189.1	201.0	215.7	209.8	211.3	208.3	175.8
17.5°	193.6	198.0	201.0	202.4	208.3	208.3	211.3	209.8	215.7	220.2	201.0
20°	224.6	221.6	224.6	234.9	249.7	251.2	246.8	246.8	249.7	251.2	214.3
22.5°	237.9	236.4	248.2	239.4	239.4	246.8	273.4	264.5	264.5	261.5	230.5
25°	308.8	314.7	326.6	341.3	376.8	387.1	416.7	384.2	388.6	342.8	292.6
27.5°	370.9	375.3	444.8	506.8	534.9	520.1	545.2	484.7	490.6	496.5	427.0
30°	390.1	399.0	499.4	545.2	582.2	552.6	585.1	505.3	500.9	534.9	506.8
32.5°	375.3	384.2	490.6	509.8	548.2	657.5	616.2	487.6	474.3	490.6	524.5
35°	412.3	418.2	481.7	435.9	471.4	919.1	806.8	568.9	542.3	452.1	502.4
37.5°	495.0	495.0	570.4	602.9	629.5	1084.6	1059.4	707.8	687.1	529.0	580.7
40°	599.9	597.0	690.0	712.2	724.0	982.6	1281.1	902.8	857.0	622.1	756.5
42.5°	663.4	657.5	732.9	756.5	756.5	831.9	1449.5	1099.3	992.9	725.5	925.0
45°	688.6	694.5	792.0	762.4	784.6	854.1	1629.8	1371.2	1222.0	851.1	1072.7
47.5°	623.5	632.4	772.8	775.7	663.4	682.7	1461.4	1424.4	1301.8	911.7	1120.0
50°	765.4	771.3	821.5	787.6	732.9	864.4	1740.6	1830.8	1777.6	1128.9	1182.1
52.5°	1050.6	1077.2	1124.5	1154.0	1137.8	1452.5	2334.6	2318.4	2274.0	1694.8	1613.5
55°	1360.9	1383.0	1449.5	1628.3	1764.3	2175.0	2903.5	3243.3	3240.4	2752.8	2514.9
57.5°	1643.1	1644.6	1653.4	1873.6	2083.4	2840.0	3803.4	5051.9	5164.2	4397.3	3600.9
60°	1888.4	1883.9	1808.6	2005.1	2260.7	3521.1	4902.7	6554.7	6576.8	5591.3	4177.2
62.5°	1954.9	1941.6	1832.2	2015.5	2234.1	3534.4	5183.4	6375.9	6350.7	5675.5	4252.5
65°	1897.2	1883.9	1745.0	1909.1	2012.5	3212.3	4787.4	5483.4	5442.0	5184.9	4048.6
67.5°	1811.5	1820.4	1683.0	1808.6	1879.5	3012.8	4370.8	4718.0	4706.2	4831.8	3878.7
70°	1687.4	1694.8	1569.2	1724.4	1827.8	2885.8	3971.8	4348.6	4327.9	4512.6	3629.0
72.5°	1691.9	1714.0	1564.8	1681.5	1789.4	2711.4	3791.5	4221.5	4160.9	4189.0	3329.0
75°	1703.7	1733.2	1575.1	1680.0	1780.5	2647.9	3770.8	4231.9	4155.0	4072.3	3215.3
77.5°	1708.1	1751.0	1581.0	1696.3	1783.5	2560.7	3723.6	4180.1	4107.7	3960.0	3080.8
80°	1672.6	1718.5	1555.9	1697.8	1764.3	2387.8	3603.9	4171.3	4116.6	3945.2	3026.1
82.5°	1601.7	1647.5	1507.2	1623.9	1727.3	2212.0	3435.4	3998.4	3995.4	3803.4	2910.9
85°	1446.6	1496.8	1390.4	1498.3	1625.4	1978.5	3095.6	3704.4	3785.6	3630.5	2755.7
87.5°	1297.3	1347.6	1291.4	1352.0	1480.6	1719.9	2659.7	3197.5	3349.7	3221.2	2367.1
90°	1127.4	1179.1	1133.3	1109.7	1213.1	1372.7	2126.3	2486.8	2630.1	2551.8	1742.1
92.5°	902.8	947.1	904.3	849.6	911.7	1007.7	1579.6	1740.6	1774.6	1699.2	1142.2
95°	682.7	715.2	676.7	622.1	629.5	690.0	1089.0	1140.7	1131.8	1041.7	725.5
97.5°	474.3	493.5	468.4	430.0	443.3	481.7	721.1	715.2	715.2	636.8	474.3
100°	329.5	336.9	325.1	307.3	317.7	342.8	484.7	483.2	468.4	430.0	345.8
102.5°	261.5	263.0	251.2	239.4	233.5	257.1	350.2	348.7	351.7	333.9	270.4
105°	230.5	229.0	218.7	208.3	196.5	220.2	277.8	289.6	288.1	273.4	232.0
107.5°	211.3	209.8	199.5	190.6	180.3	201.0	240.8	257.1	255.6	254.1	218.7
110°	196.5	195.0	186.2	177.3	168.4	192.1	226.1	251.2	251.2	251.2	221.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
112.5°	186.2	186.2	178.8	171.4	164.0	190.6	217.2	246.8	246.8	254.1	232.0
115°	180.3	178.8	172.9	168.4	162.5	192.1	214.3	243.8	245.3	255.6	230.5
117.5°	175.8	174.4	169.9	164.0	161.1	189.1	215.7	249.7	248.2	264.5	226.1
120°	168.4	165.5	159.6	153.7	150.7	174.4	209.8	242.3	239.4	246.8	208.3
122.5°	162.5	153.7	143.3	138.9	138.9	158.1	196.5	218.7	215.7	209.8	187.7
125°	149.2	140.4	131.5	130.0	131.5	147.8	187.7	201.0	202.4	198.0	177.3
127.5°	134.5	128.6	124.1	124.1	127.1	144.8	184.7	193.6	193.6	184.7	168.4
130°	127.1	125.6	122.6	122.6	128.6	146.3	180.3	183.2	183.2	171.4	164.0
132.5°	124.1	121.2	118.2	118.2	124.1	141.8	168.4	174.4	172.9	161.1	155.1
135°	118.2	116.7	113.8	113.8	121.2	138.9	158.1	164.0	162.5	147.8	143.3
137.5°	115.3	112.3	112.3	112.3	119.7	137.4	149.2	153.7	152.2	137.4	133.0
140°	110.8	109.3	106.4	106.4	116.7	133.0	140.4	141.8	140.4	128.6	124.1
142.5°	103.4	102.0	100.5	103.4	113.8	125.6	131.5	131.5	130.0	122.6	116.7
145°	99.0	97.5	96.0	103.4	112.3	118.2	124.1	119.7	119.7	115.3	109.3
147.5°	94.6	93.1	93.1	99.0	106.4	106.4	110.8	109.3	110.8	109.3	103.4
150°	85.7	84.2	84.2	88.7	90.1	90.1	94.6	94.6	94.6	94.6	90.1
152.5°	75.4	73.9	75.4	76.8	76.8	76.8	79.8	81.3	81.3	79.8	78.3
155°	65.0	65.0	65.0	66.5	66.5	65.0	69.4	69.4	69.4	69.4	68.0
157.5°	57.6	57.6	57.6	57.6	57.6	56.1	59.1	59.1	60.6	59.1	59.1
160°	50.2	48.8	48.8	48.8	48.8	47.3	48.8	48.8	48.8	50.2	50.2
162.5°	39.9	38.4	38.4	38.4	38.4	35.5	38.4	36.9	38.4	38.4	39.9
165°	32.5	31.0	31.0	31.0	29.6	28.1	29.6	28.1	28.1	28.1	29.6
167.5°	25.1	25.1	23.6	25.1	23.6	20.7	20.7	19.2	19.2	19.2	19.2
170°	19.2	17.7	16.3	17.7	16.3	13.3	13.3	11.8	11.8	10.3	10.3
172.5°	13.3	11.8	10.3	11.8	10.3	7.4	7.4	4.4	4.4	4.4	4.4
175°	11.8	10.3	8.9	10.3	8.9	5.9	4.4	3.0	3.0	3.0	3.0
177.5°	11.8	10.3	8.9	10.3	8.9	5.9	4.4	3.0	3.0	3.0	3.0
180°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
2.5°	88.7	87.2	85.7	88.7	87.2	88.7	90.1	91.6	91.6	90.1	90.1
5°	102.0	100.5	97.5	96.0	93.1	93.1	93.1	96.0	96.0	94.6	96.0
7.5°	121.2	118.2	113.8	110.8	106.4	106.4	104.9	107.9	109.3	106.4	107.9
10°	135.9	134.5	128.6	124.1	119.7	118.2	118.2	119.7	119.7	118.2	118.2
12.5°	149.2	146.3	140.4	135.9	130.0	128.6	128.6	130.0	130.0	128.6	128.6
15°	168.4	159.6	153.7	149.2	143.3	141.8	140.4	141.8	143.3	140.4	140.4
17.5°	195.0	184.7	171.4	159.6	153.7	156.6	158.1	159.6	158.1	153.7	153.7
20°	209.8	203.9	186.2	177.3	169.9	169.9	169.9	169.9	169.9	168.4	169.9
22.5°	220.2	211.3	189.1	183.2	178.8	181.7	184.7	186.2	186.2	184.7	184.7
25°	267.4	234.9	212.8	208.3	202.4	203.9	201.0	201.0	202.4	201.0	203.9
27.5°	367.9	314.7	264.5	246.8	242.3	242.3	245.3	245.3	245.3	245.3	243.8
30°	441.8	379.7	297.0	273.4	270.4	283.7	291.1	297.0	294.0	289.6	289.6
32.5°	453.6	385.7	302.9	294.0	301.4	311.8	319.2	323.6	328.0	326.6	325.1
35°	428.5	356.1	298.5	310.3	316.2	322.1	323.6	320.6	333.9	339.8	341.3
37.5°	478.7	399.0	347.2	356.1	348.7	342.8	345.8	347.2	365.0	373.8	382.7
40°	611.7	481.7	394.5	390.1	385.7	399.0	416.7	425.5	424.1	418.2	419.6
42.5°	740.3	563.0	444.8	443.3	441.8	465.4	493.5	492.0	478.7	468.4	468.4
45°	871.8	641.3	524.5	526.0	523.1	531.9	539.3	533.4	534.9	537.8	540.8
47.5°	953.1	712.2	574.8	570.4	551.1	568.9	589.6	576.3	571.8	564.4	567.4
50°	972.3	729.9	604.3	636.8	619.1	605.8	583.7	574.8	591.0	602.9	611.7
52.5°	1263.4	901.3	755.1	806.8	783.1	735.8	731.4	716.6	734.4	735.8	746.2
55°	2117.4	1445.1	1040.2	1090.5	1091.9	1075.7	1149.6	1108.2	1071.3	1055.0	1049.1
57.5°	3337.9	2234.1	1346.1	1409.6	1470.2	1527.8	1628.3	1544.1	1437.7	1424.4	1439.2
60°	4274.7	3154.7	1717.0	1895.8	1977.0	1980.0	1993.3	1910.5	1845.5	1851.4	1872.1
62.5°	4475.7	3923.0	2186.9	2260.7	2268.1	2213.5	2237.1	2290.3	2198.7	2126.3	2145.5
65°	4341.2	4227.4	2340.5	2148.4	2136.6	2145.5	2306.5	2454.3	2269.6	2086.4	2086.4
67.5°	4081.1	3995.4	2183.9	1932.7	1965.2	2065.7	2269.6	2343.5	2147.0	1951.9	1951.9
70°	3803.4	3631.9	2008.1	1761.3	1841.1	1957.8	2090.8	2096.7	1981.5	1842.6	1833.7
72.5°	3503.4	3348.3	1932.7	1711.1	1748.0	1768.7	1841.1	1886.9	1873.6	1783.5	1782.0
75°	3414.7	3289.1	1931.2	1687.4	1665.3	1657.9	1708.1	1807.1	1852.9	1799.7	1802.7
77.5°	3280.3	3204.9	1841.1	1588.4	1564.8	1564.8	1591.4	1671.2	1740.6	1718.5	1725.8
80°	3187.2	3073.4	1703.7	1480.6	1448.1	1452.5	1455.4	1510.1	1575.1	1578.1	1578.1
82.5°	3008.4	2794.1	1495.3	1319.5	1297.3	1303.2	1292.9	1323.9	1341.7	1363.8	1359.4
85°	2714.4	2411.4	1263.4	1143.7	1108.2	1096.4	1087.5	1089.0	1099.3	1094.9	1077.2
87.5°	2274.0	1912.0	1007.7	938.3	896.9	867.4	855.5	840.8	839.3	823.0	828.9
90°	1678.6	1312.1	747.7	722.5	693.0	662.0	645.7	630.9	619.1	602.9	597.0
92.5°	1094.9	845.2	546.7	533.4	514.2	496.5	489.1	481.7	478.7	465.4	469.9
95°	684.1	571.8	410.8	396.0	385.7	381.2	382.7	384.2	381.2	366.4	370.9
97.5°	456.6	413.7	320.6	310.3	300.0	298.5	300.0	302.9	304.4	294.0	297.0
100°	336.9	317.7	263.0	255.6	246.8	243.8	245.3	248.2	249.7	240.8	242.3
102.5°	267.4	258.6	227.6	224.6	214.3	211.3	214.3	215.7	217.2	211.3	211.3
105°	234.9	234.9	209.8	208.3	201.0	198.0	199.5	201.0	202.4	196.5	196.5
107.5°	226.1	227.6	202.4	203.9	199.5	198.0	201.0	203.9	202.4	198.0	196.5
110°	233.5	236.4	202.4	206.9	208.3	211.3	217.2	218.7	218.7	215.7	217.2



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	240.8	245.3	199.5	209.8	220.2	227.6	237.9	243.8	240.8	239.4	240.8
115°	234.9	237.9	186.2	202.4	221.6	232.0	234.9	234.9	227.6	227.6	229.0
117.5°	227.6	233.5	172.9	186.2	199.5	208.3	206.9	202.4	193.6	190.6	199.5
120°	211.3	229.0	165.5	168.4	169.9	172.9	168.4	164.0	156.6	155.1	161.1
122.5°	195.0	211.3	152.2	149.2	147.8	147.8	146.3	144.8	140.4	141.8	147.8
125°	181.7	190.6	138.9	134.5	133.0	134.5	134.5	134.5	131.5	128.6	128.6
127.5°	171.4	174.4	131.5	125.6	124.1	124.1	124.1	125.6	124.1	119.7	119.7
130°	165.5	164.0	127.1	116.7	115.3	116.7	116.7	118.2	115.3	112.3	112.3
132.5°	153.7	150.7	121.2	110.8	109.3	110.8	110.8	110.8	107.9	104.9	104.9
135°	140.4	137.4	113.8	103.4	102.0	103.4	103.4	104.9	102.0	99.0	99.0
137.5°	130.0	127.1	106.4	97.5	96.0	96.0	97.5	97.5	96.0	93.1	93.1
140°	121.2	118.2	99.0	91.6	88.7	90.1	90.1	90.1	88.7	85.7	85.7
142.5°	113.8	112.3	91.6	84.2	81.3	82.7	82.7	84.2	81.3	78.3	78.3
145°	107.9	104.9	85.7	76.8	75.4	75.4	75.4	76.8	73.9	70.9	70.9
147.5°	102.0	99.0	78.3	69.4	68.0	68.0	68.0	68.0	66.5	63.5	62.1
150°	90.1	88.7	72.4	63.5	60.6	60.6	60.6	59.1	56.1	53.2	53.2
152.5°	76.8	75.4	63.5	56.1	53.2	53.2	51.7	51.7	48.8	47.3	45.8
155°	66.5	66.5	57.6	50.2	47.3	45.8	44.3	44.3	42.9	41.4	39.9
157.5°	59.1	57.6	51.7	45.8	39.9	39.9	38.4	38.4	36.9	35.5	34.0
160°	50.2	50.2	44.3	38.4	34.0	32.5	32.5	31.0	29.6	28.1	28.1
162.5°	39.9	39.9	35.5	31.0	26.6	26.6	25.1	25.1	23.6	22.2	20.7
165°	28.1	28.1	26.6	23.6	20.7	19.2	19.2	19.2	17.7	16.3	16.3
167.5°	19.2	19.2	17.7	16.3	14.8	13.3	14.8	14.8	13.3	11.8	11.8
170°	10.3	10.3	8.9	8.9	7.4	7.4	8.9	10.3	8.9	7.4	5.9
172.5°	4.4	4.4	4.4	4.4	3.0	4.4	5.9	7.4	5.9	4.4	4.4
175°	3.0	3.0	4.4	4.4	3.0	4.4	5.9	7.4	5.9	4.4	4.4
177.5°	3.0	3.0	4.4	4.4	3.0	4.4	5.9	7.4	5.9	4.4	4.4
180°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9

(END OF REPORT)