

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: P588544

Luminaire Tested: **GAT-CA6-LED-90-727-U-33-5-X-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588544
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-90-727-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: 12052 lumens
Efficiency: N/A
Efficacy: 128.3 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

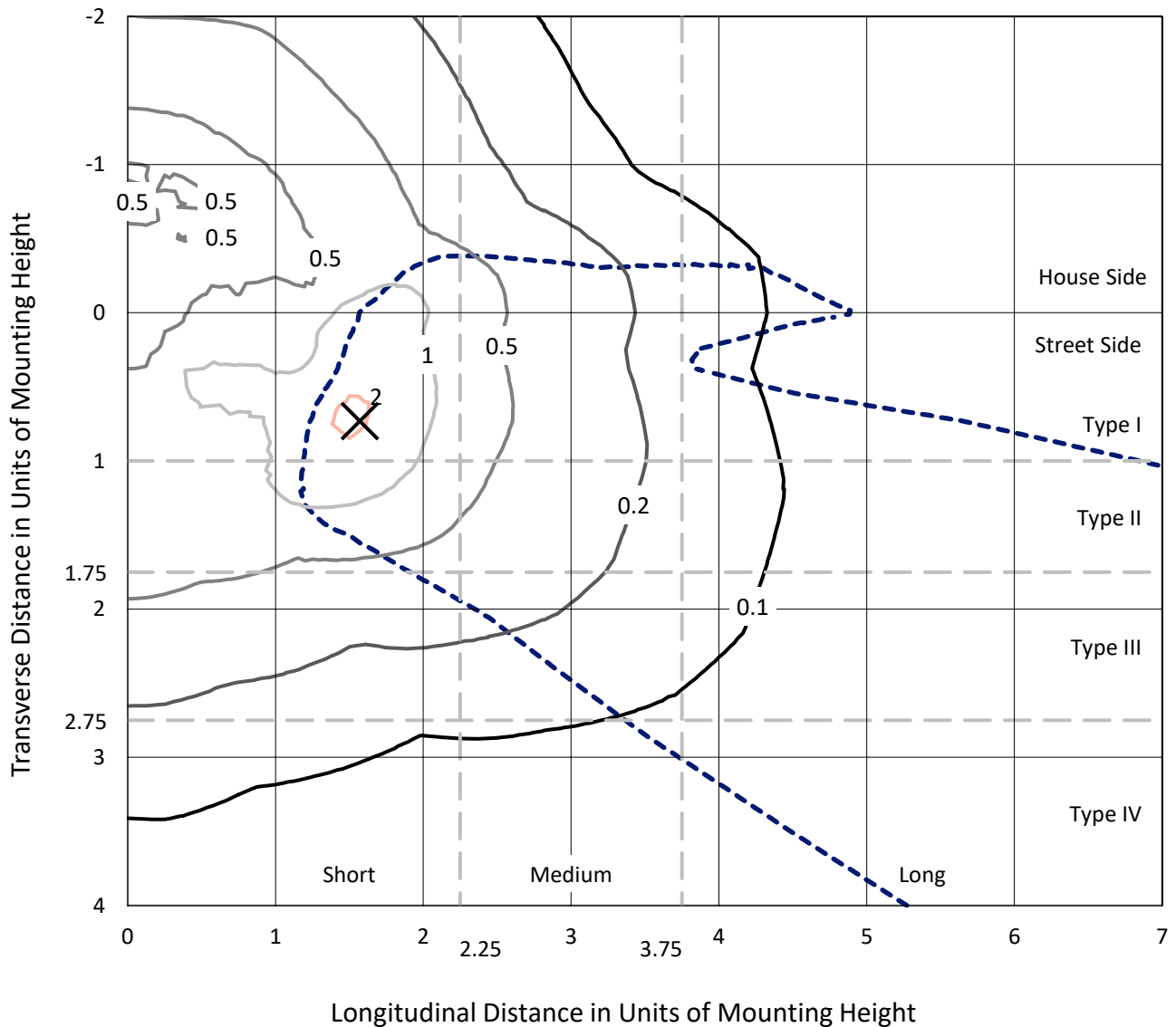
Input Watts (W): 93.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

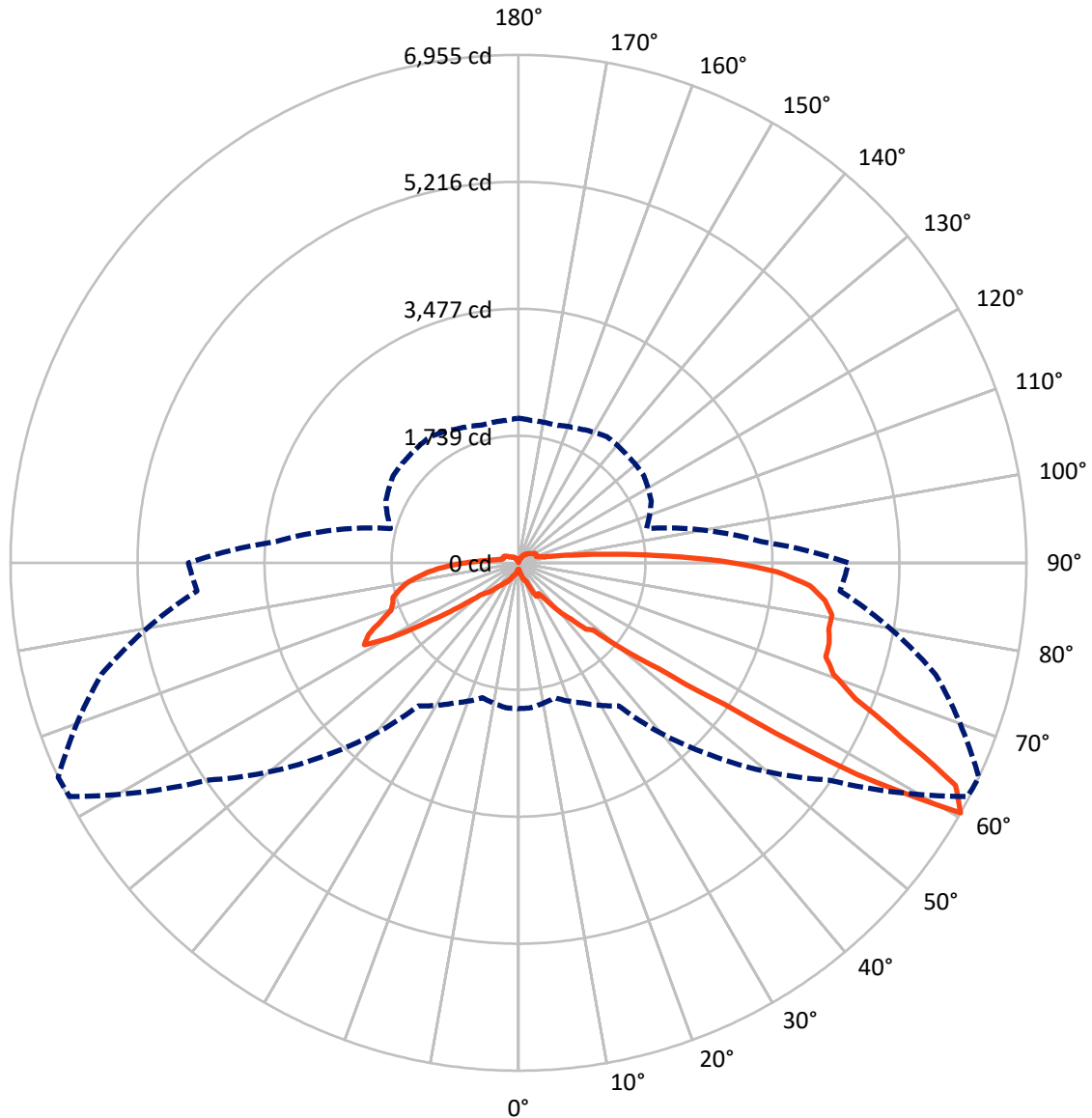
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.2 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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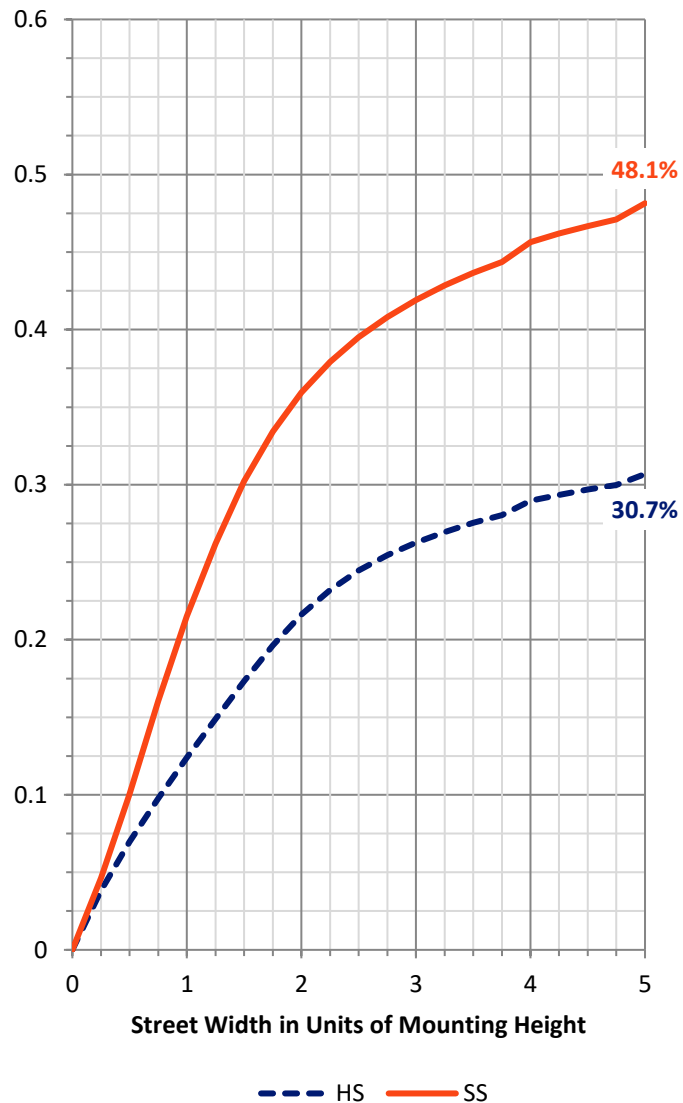
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4019.0	643.6	4662.7
	% Fixture	33.3	5.3	38.7
Street Side	Lumens	6430.0	959.4	7389.3
	% Fixture	53.4	8.0	61.3
Total	Lumens	10449.0	1603.0	12052.0
	% Fixture	86.7	13.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.6	0.1
10°-20°	51.5	0.4
20°-30°	147.2	1.2
30°-40°	317.0	2.6
40°-50°	599.8	5.0
50°-60°	1675.6	13.9
60°-70°	2987.3	24.8
70°-80°	2615.5	21.7
80°-90°	2043.5	17.0
90°-100°	772.6	6.4
100°-110°	265.7	2.2
110°-120°	217.3	1.8
120°-130°	146.0	1.2
130°-140°	100.2	0.8
140°-150°	63.0	0.5
150°-160°	29.2	0.2
160°-170°	8.3	0.1
170°-180°	0.7	0.0
0°-90°	10449.0	86.7
0°-180°	12052.0	100.0

Coefficient of Utilization

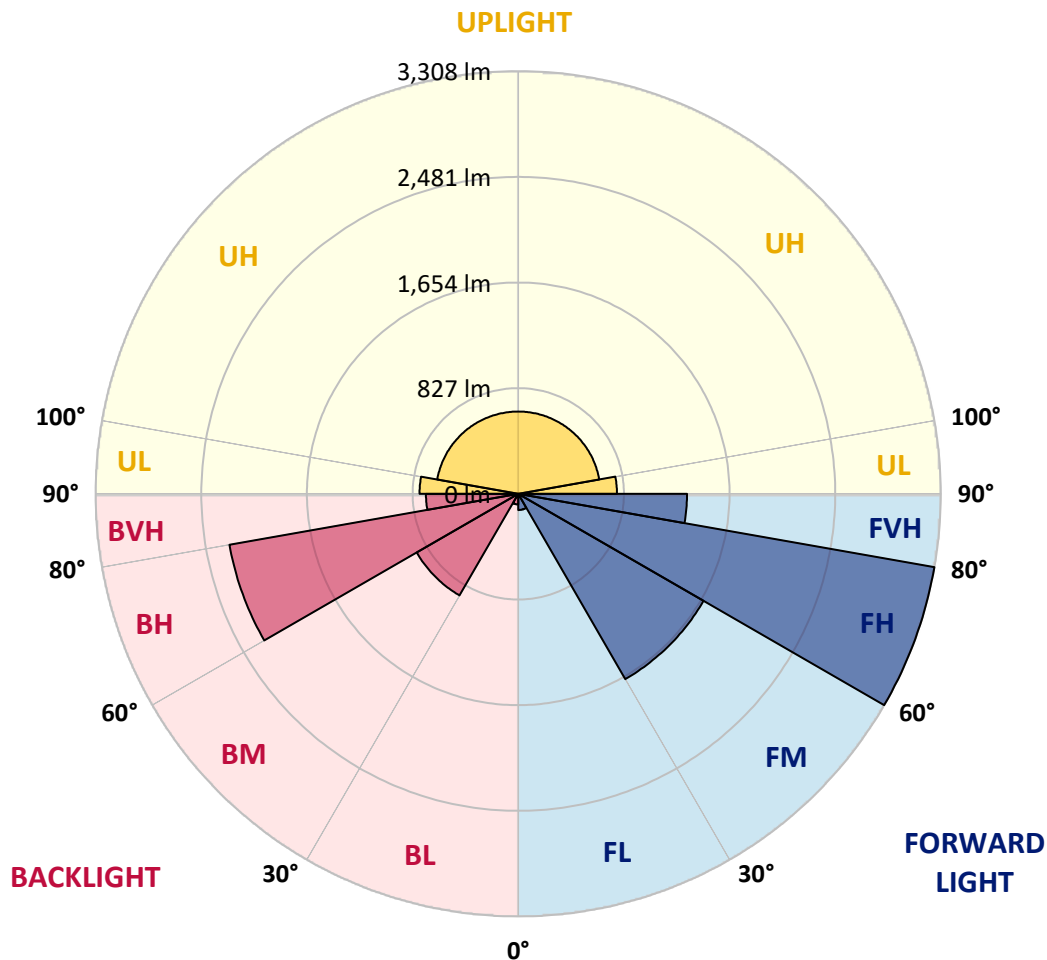


REPORT NUMBER: P588544
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	127.0	1.1			
FM (30°-60°)	1674.5	13.9			
FH (60°-80°)	3307.6	27.4			G2/5000
FVH (80°-90°)	1320.9	11.0			G5
BL (0°-30°)	83.3	0.7	B0/110		
BM (30°-60°)	918.0	7.6	B1/1000		
BH (60°-80°)	2295.2	19.0	B3/2500		G3/2500
BVH (80°-90°)	722.7	6.0			G4/750
UL (90°-100°)	772.6	6.4		U4/1000	
UH (100°-180°)	643.6	5.3		U4/1000	

BUG Rating: B3-U4-G5
 Type III Short





REPORT NUMBER: P588544
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
2.5°	106.3	103.1	100.0	100.0	98.4	96.9	96.9	93.8	95.3	93.8	93.8
5°	125.0	123.4	120.3	121.9	118.8	117.2	117.2	115.6	114.1	112.5	107.8
7.5°	145.3	145.3	146.9	148.4	143.8	139.1	137.5	134.4	134.4	132.8	129.7
10°	167.2	165.6	159.4	159.4	156.3	153.1	154.7	153.1	153.1	153.1	146.9
12.5°	173.4	171.9	167.2	167.2	167.2	165.6	171.9	170.3	171.9	170.3	160.9
15°	195.3	193.8	192.2	193.8	200.0	212.5	228.1	221.9	223.4	220.3	185.9
17.5°	204.7	209.4	212.5	214.1	220.3	220.3	223.4	221.9	228.1	232.8	212.5
20°	237.5	234.4	237.5	248.4	264.1	265.6	260.9	260.9	264.1	265.6	226.6
22.5°	251.6	250.0	262.5	253.1	253.1	260.9	289.1	279.7	279.7	276.6	243.8
25°	326.6	332.8	345.3	360.9	398.4	409.4	440.6	406.3	410.9	362.5	309.4
27.5°	392.2	396.9	470.3	535.9	565.6	550.0	576.6	512.5	518.8	525.0	451.6
30°	412.5	421.9	528.1	576.6	615.6	584.4	618.8	534.4	529.7	565.6	535.9
32.5°	396.9	406.3	518.8	539.1	579.7	695.3	651.6	515.6	501.6	518.8	554.7
35°	435.9	442.2	509.4	460.9	498.4	971.9	853.1	601.6	573.4	478.1	531.3
37.5°	523.4	523.4	603.1	637.5	665.6	1146.9	1120.3	748.4	726.6	559.4	614.1
40°	634.4	631.3	729.7	753.1	765.6	1039.1	1354.7	954.7	906.3	657.8	800.0
42.5°	701.6	695.3	775.0	800.0	800.0	879.7	1532.8	1162.5	1050.0	767.2	978.1
45°	728.1	734.4	837.5	806.3	829.7	903.1	1723.5	1450.0	1292.2	900.0	1134.4
47.5°	659.4	668.8	817.2	820.3	701.6	721.9	1545.3	1506.3	1376.6	964.1	1184.4
50°	809.4	815.6	868.8	832.8	775.0	914.1	1840.7	1936.0	1879.7	1193.8	1250.0
52.5°	1111.0	1139.1	1189.1	1220.3	1203.1	1536.0	2468.8	2451.6	2404.7	1792.2	1706.3
55°	1439.1	1462.5	1532.8	1721.9	1865.7	2300.0	3070.4	3429.7	3426.6	2911.0	2659.4
57.5°	1737.5	1739.1	1748.5	1981.3	2203.2	3003.2	4021.9	5342.3	5461.0	4650.1	3807.9
60°	1996.9	1992.2	1912.5	2120.3	2390.7	3723.5	5184.5	6931.4	6954.8	5912.6	4417.3
62.5°	2067.2	2053.2	1937.5	2131.3	2362.5	3737.6	5481.3	6742.3	6715.7	6001.7	4496.9
65°	2006.3	1992.2	1845.3	2018.8	2128.2	3396.9	5062.6	5798.5	5754.8	5482.9	4281.3
67.5°	1915.7	1925.0	1779.7	1912.5	1987.5	3186.0	4621.9	4989.1	4976.6	5109.5	4101.6
70°	1784.4	1792.2	1659.4	1823.5	1932.8	3051.6	4200.1	4598.5	4576.6	4771.9	3837.6
72.5°	1789.1	1812.5	1654.7	1778.2	1892.2	2867.2	4009.4	4464.1	4400.1	4429.8	3520.4
75°	1801.6	1832.8	1665.7	1776.6	1882.8	2800.0	3987.6	4475.1	4393.8	4306.3	3400.1
77.5°	1806.3	1851.6	1671.9	1793.8	1886.0	2707.9	3937.6	4420.4	4343.8	4187.6	3257.9
80°	1768.8	1817.2	1645.3	1795.3	1865.7	2525.0	3811.0	4411.0	4353.2	4171.9	3200.0
82.5°	1693.8	1742.2	1593.8	1717.2	1826.6	2339.1	3632.9	4228.2	4225.1	4021.9	3078.2
85°	1529.7	1582.8	1470.3	1584.4	1718.8	2092.2	3273.5	3917.2	4003.2	3839.1	2914.1
87.5°	1371.9	1425.0	1365.6	1429.7	1565.6	1818.8	2812.5	3381.3	3542.2	3406.3	2503.2
90°	1192.2	1246.9	1198.5	1173.5	1282.8	1451.6	2248.5	2629.7	2781.3	2698.5	1842.2
92.5°	954.7	1001.6	956.3	898.5	964.1	1065.6	1670.3	1840.7	1876.6	1796.9	1207.8
95°	721.9	756.3	715.6	657.8	665.6	729.7	1151.6	1206.3	1196.9	1101.6	767.2
97.5°	501.6	521.9	495.3	454.7	468.8	509.4	762.5	756.3	756.3	673.4	501.6
100°	348.4	356.3	343.8	325.0	335.9	362.5	512.5	510.9	495.3	454.7	365.6
102.5°	276.6	278.1	265.6	253.1	246.9	271.9	370.3	368.8	371.9	353.1	285.9
105°	243.8	242.2	231.3	220.3	207.8	232.8	293.8	306.3	304.7	289.1	245.3
107.5°	223.4	221.9	210.9	201.6	190.6	212.5	254.7	271.9	270.3	268.8	231.3
110°	207.8	206.3	196.9	187.5	178.1	203.1	239.1	265.6	265.6	265.6	234.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
112.5°	196.9	196.9	189.1	181.3	173.4	201.6	229.7	260.9	260.9	268.8	245.3
115°	190.6	189.1	182.8	178.1	171.9	203.1	226.6	257.8	259.4	270.3	243.8
117.5°	185.9	184.4	179.7	173.4	170.3	200.0	228.1	264.1	262.5	279.7	239.1
120°	178.1	175.0	168.8	162.5	159.4	184.4	221.9	256.3	253.1	260.9	220.3
122.5°	171.9	162.5	151.6	146.9	146.9	167.2	207.8	231.3	228.1	221.9	198.4
125°	157.8	148.4	139.1	137.5	139.1	156.3	198.4	212.5	214.1	209.4	187.5
127.5°	142.2	135.9	131.3	131.3	134.4	153.1	195.3	204.7	204.7	195.3	178.1
130°	134.4	132.8	129.7	129.7	135.9	154.7	190.6	193.8	193.8	181.3	173.4
132.5°	131.3	128.1	125.0	125.0	131.3	150.0	178.1	184.4	182.8	170.3	164.1
135°	125.0	123.4	120.3	120.3	128.1	146.9	167.2	173.4	171.9	156.3	151.6
137.5°	121.9	118.8	118.8	118.8	126.6	145.3	157.8	162.5	160.9	145.3	140.6
140°	117.2	115.6	112.5	112.5	123.4	140.6	148.4	150.0	148.4	135.9	131.3
142.5°	109.4	107.8	106.3	109.4	120.3	132.8	139.1	139.1	137.5	129.7	123.4
145°	104.7	103.1	101.6	109.4	118.8	125.0	131.3	126.6	126.6	121.9	115.6
147.5°	100.0	98.4	98.4	104.7	112.5	112.5	117.2	115.6	117.2	115.6	109.4
150°	90.6	89.1	89.1	93.8	95.3	95.3	100.0	100.0	100.0	100.0	95.3
152.5°	79.7	78.1	79.7	81.3	81.3	81.3	84.4	85.9	85.9	84.4	82.8
155°	68.8	68.8	68.8	70.3	70.3	68.8	73.4	73.4	73.4	73.4	71.9
157.5°	60.9	60.9	60.9	60.9	60.9	59.4	62.5	62.5	64.1	62.5	62.5
160°	53.1	51.6	51.6	51.6	51.6	50.0	51.6	51.6	51.6	53.1	53.1
162.5°	42.2	40.6	40.6	40.6	40.6	37.5	40.6	39.1	40.6	40.6	42.2
165°	34.4	32.8	32.8	32.8	31.3	29.7	31.3	29.7	29.7	29.7	31.3
167.5°	26.6	26.6	25.0	26.6	25.0	21.9	21.9	20.3	20.3	20.3	20.3
170°	20.3	18.8	17.2	18.8	17.2	14.1	14.1	12.5	12.5	10.9	10.9
172.5°	14.1	12.5	10.9	12.5	10.9	7.8	7.8	4.7	4.7	4.7	4.7
175°	12.5	10.9	9.4	10.9	9.4	6.3	4.7	3.1	3.1	3.1	3.1
177.5°	12.5	10.9	9.4	10.9	9.4	6.3	4.7	3.1	3.1	3.1	3.1
180°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
2.5°	93.8	92.2	90.6	93.8	92.2	93.8	95.3	96.9	96.9	95.3	95.3
5°	107.8	106.3	103.1	101.6	98.4	98.4	98.4	101.6	101.6	100.0	101.6
7.5°	128.1	125.0	120.3	117.2	112.5	112.5	110.9	114.1	115.6	112.5	114.1
10°	143.8	142.2	135.9	131.3	126.6	125.0	125.0	126.6	126.6	125.0	125.0
12.5°	157.8	154.7	148.4	143.8	137.5	135.9	135.9	137.5	137.5	135.9	135.9
15°	178.1	168.8	162.5	157.8	151.6	150.0	148.4	150.0	151.6	148.4	148.4
17.5°	206.3	195.3	181.3	168.8	162.5	165.6	167.2	168.8	167.2	162.5	162.5
20°	221.9	215.6	196.9	187.5	179.7	179.7	179.7	179.7	179.7	178.1	179.7
22.5°	232.8	223.4	200.0	193.8	189.1	192.2	195.3	196.9	196.9	195.3	195.3
25°	282.8	248.4	225.0	220.3	214.1	215.6	212.5	212.5	214.1	212.5	215.6
27.5°	389.1	332.8	279.7	260.9	256.3	256.3	259.4	259.4	259.4	259.4	257.8
30°	467.2	401.6	314.1	289.1	285.9	300.0	307.8	314.1	310.9	306.3	306.3
32.5°	479.7	407.8	320.3	310.9	318.8	329.7	337.5	342.2	346.9	345.3	343.8
35°	453.1	376.6	315.6	328.1	334.4	340.6	342.2	339.1	353.1	359.4	360.9
37.5°	506.3	421.9	367.2	376.6	368.8	362.5	365.6	367.2	385.9	395.3	404.7
40°	646.9	509.4	417.2	412.5	407.8	421.9	440.6	450.0	448.4	442.2	443.8
42.5°	782.8	595.3	470.3	468.8	467.2	492.2	521.9	520.3	506.3	495.3	495.3
45°	921.9	678.1	554.7	556.3	553.1	562.5	570.3	564.1	565.6	568.8	571.9
47.5°	1007.8	753.1	607.8	603.1	582.8	601.6	623.4	609.4	604.7	596.9	600.0
50°	1028.1	771.9	639.1	673.4	654.7	640.6	617.2	607.8	625.0	637.5	646.9
52.5°	1336.0	953.1	798.4	853.1	828.1	778.1	773.4	757.8	776.6	778.1	789.1
55°	2239.1	1528.1	1100.0	1153.1	1154.7	1137.5	1215.6	1171.9	1132.8	1115.6	1109.4
57.5°	3529.7	2362.5	1423.5	1490.6	1554.7	1615.6	1721.9	1632.8	1520.3	1506.3	1521.9
60°	4520.4	3336.0	1815.7	2004.7	2090.7	2093.8	2107.8	2020.3	1951.6	1957.8	1979.7
62.5°	4732.9	4148.5	2312.5	2390.7	2398.5	2340.7	2365.7	2421.9	2325.0	2248.5	2268.8
65°	4590.7	4470.4	2475.0	2271.9	2259.4	2268.8	2439.1	2595.4	2400.0	2206.3	2206.3
67.5°	4315.7	4225.1	2309.4	2043.8	2078.2	2184.4	2400.0	2478.2	2270.3	2064.1	2064.1
70°	4021.9	3840.7	2123.5	1862.5	1946.9	2070.3	2211.0	2217.2	2095.3	1948.5	1939.1
72.5°	3704.7	3540.7	2043.8	1809.4	1848.5	1870.3	1946.9	1995.3	1981.3	1886.0	1884.4
75°	3611.0	3478.2	2042.2	1784.4	1761.0	1753.2	1806.3	1911.0	1959.4	1903.2	1906.3
77.5°	3468.8	3389.1	1946.9	1679.7	1654.7	1654.7	1682.8	1767.2	1840.7	1817.2	1825.0
80°	3370.4	3250.0	1801.6	1565.6	1531.3	1536.0	1539.1	1596.9	1665.7	1668.8	1668.8
82.5°	3181.3	2954.7	1581.3	1395.3	1371.9	1378.1	1367.2	1400.0	1418.8	1442.2	1437.5
85°	2870.4	2550.0	1336.0	1209.4	1171.9	1159.4	1150.0	1151.6	1162.5	1157.8	1139.1
87.5°	2404.7	2021.9	1065.6	992.2	948.5	917.2	904.7	889.1	887.5	870.3	876.6
90°	1775.0	1387.5	790.6	764.1	732.8	700.0	682.8	667.2	654.7	637.5	631.3
92.5°	1157.8	893.8	578.1	564.1	543.8	525.0	517.2	509.4	506.3	492.2	496.9
95°	723.4	604.7	434.4	418.8	407.8	403.1	404.7	406.3	403.1	387.5	392.2
97.5°	482.8	437.5	339.1	328.1	317.2	315.6	317.2	320.3	321.9	310.9	314.1
100°	356.3	335.9	278.1	270.3	260.9	257.8	259.4	262.5	264.1	254.7	256.3
102.5°	282.8	273.4	240.6	237.5	226.6	223.4	226.6	228.1	229.7	223.4	223.4
105°	248.4	248.4	221.9	220.3	212.5	209.4	210.9	212.5	214.1	207.8	207.8
107.5°	239.1	240.6	214.1	215.6	210.9	209.4	212.5	215.6	214.1	209.4	207.8
110°	246.9	250.0	214.1	218.8	220.3	223.4	229.7	231.3	231.3	228.1	229.7



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	254.7	259.4	210.9	221.9	232.8	240.6	251.6	257.8	254.7	253.1	254.7
115°	248.4	251.6	196.9	214.1	234.4	245.3	248.4	248.4	240.6	240.6	242.2
117.5°	240.6	246.9	182.8	196.9	210.9	220.3	218.8	214.1	204.7	201.6	210.9
120°	223.4	242.2	175.0	178.1	179.7	182.8	178.1	173.4	165.6	164.1	170.3
122.5°	206.3	223.4	160.9	157.8	156.3	156.3	154.7	153.1	148.4	150.0	156.3
125°	192.2	201.6	146.9	142.2	140.6	142.2	142.2	142.2	139.1	135.9	135.9
127.5°	181.3	184.4	139.1	132.8	131.3	131.3	131.3	132.8	131.3	126.6	126.6
130°	175.0	173.4	134.4	123.4	121.9	123.4	123.4	125.0	121.9	118.8	118.8
132.5°	162.5	159.4	128.1	117.2	115.6	117.2	117.2	117.2	114.1	110.9	110.9
135°	148.4	145.3	120.3	109.4	107.8	109.4	109.4	110.9	107.8	104.7	104.7
137.5°	137.5	134.4	112.5	103.1	101.6	101.6	103.1	103.1	101.6	98.4	98.4
140°	128.1	125.0	104.7	96.9	93.8	95.3	95.3	95.3	93.8	90.6	90.6
142.5°	120.3	118.8	96.9	89.1	85.9	87.5	87.5	89.1	85.9	82.8	82.8
145°	114.1	110.9	90.6	81.3	79.7	79.7	79.7	81.3	78.1	75.0	75.0
147.5°	107.8	104.7	82.8	73.4	71.9	71.9	71.9	71.9	70.3	67.2	65.6
150°	95.3	93.8	76.6	67.2	64.1	64.1	64.1	62.5	59.4	56.3	56.3
152.5°	81.3	79.7	67.2	59.4	56.3	56.3	54.7	54.7	51.6	50.0	48.4
155°	70.3	70.3	60.9	53.1	50.0	48.4	46.9	46.9	45.3	43.8	42.2
157.5°	62.5	60.9	54.7	48.4	42.2	42.2	40.6	40.6	39.1	37.5	35.9
160°	53.1	53.1	46.9	40.6	35.9	34.4	34.4	32.8	31.3	29.7	29.7
162.5°	42.2	42.2	37.5	32.8	28.1	28.1	26.6	26.6	25.0	23.4	21.9
165°	29.7	29.7	28.1	25.0	21.9	20.3	20.3	20.3	18.8	17.2	17.2
167.5°	20.3	20.3	18.8	17.2	15.6	14.1	15.6	15.6	14.1	12.5	12.5
170°	10.9	10.9	9.4	9.4	7.8	7.8	9.4	10.9	9.4	7.8	6.3
172.5°	4.7	4.7	4.7	4.7	3.1	4.7	6.3	7.8	6.3	4.7	4.7
175°	3.1	3.1	4.7	4.7	3.1	4.7	6.3	7.8	6.3	4.7	4.7
177.5°	3.1	3.1	4.7	4.7	3.1	4.7	6.3	7.8	6.3	4.7	4.7
180°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3

(END OF REPORT)