

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: P588520

Luminaire Tested: **GAT-CA6-LED-80-727-U-33-5-X-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588520
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-80-727-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: 10906 lumens
Efficiency: N/A
Efficacy: 129.2 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

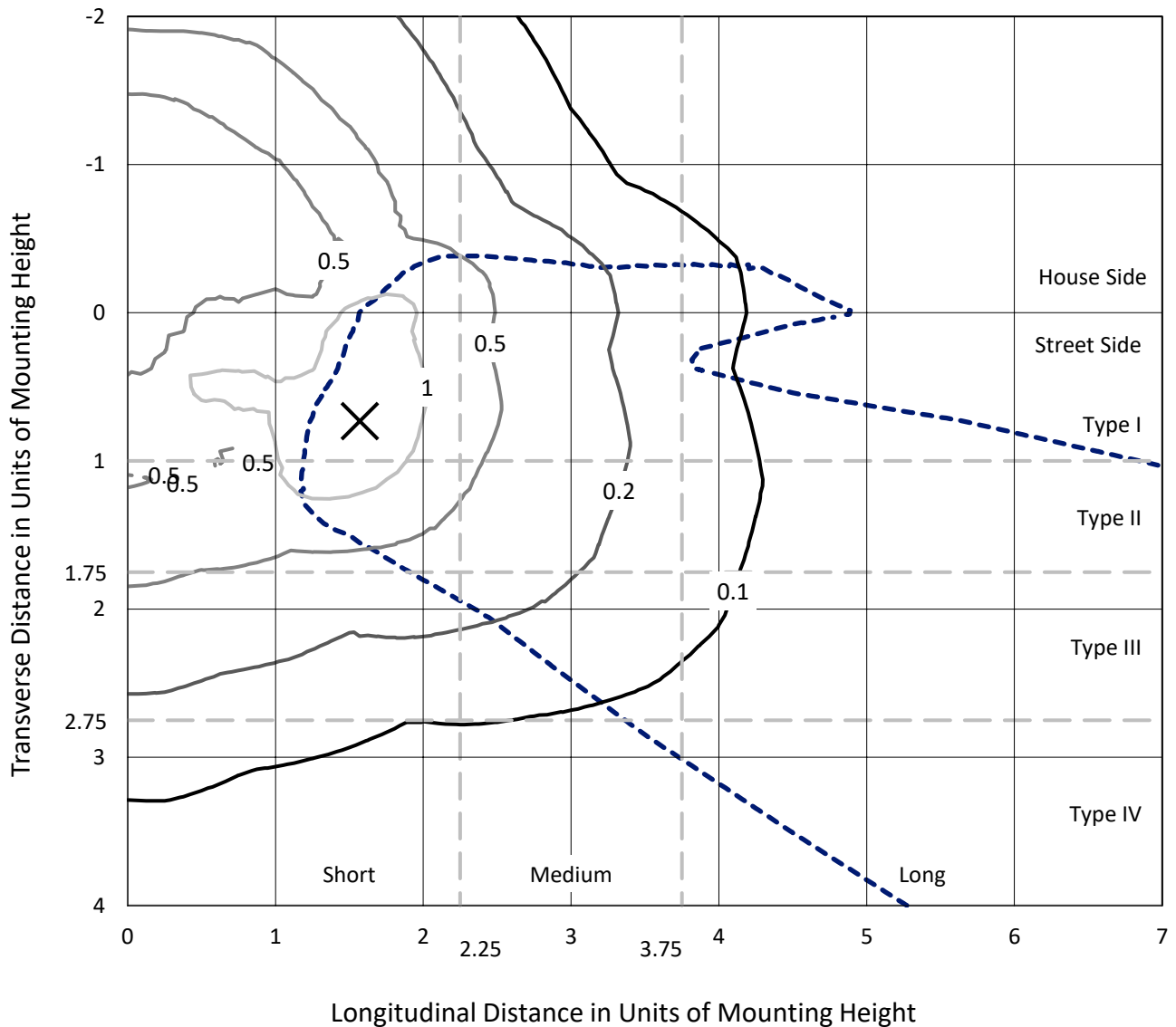
Input Watts (W): 84.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

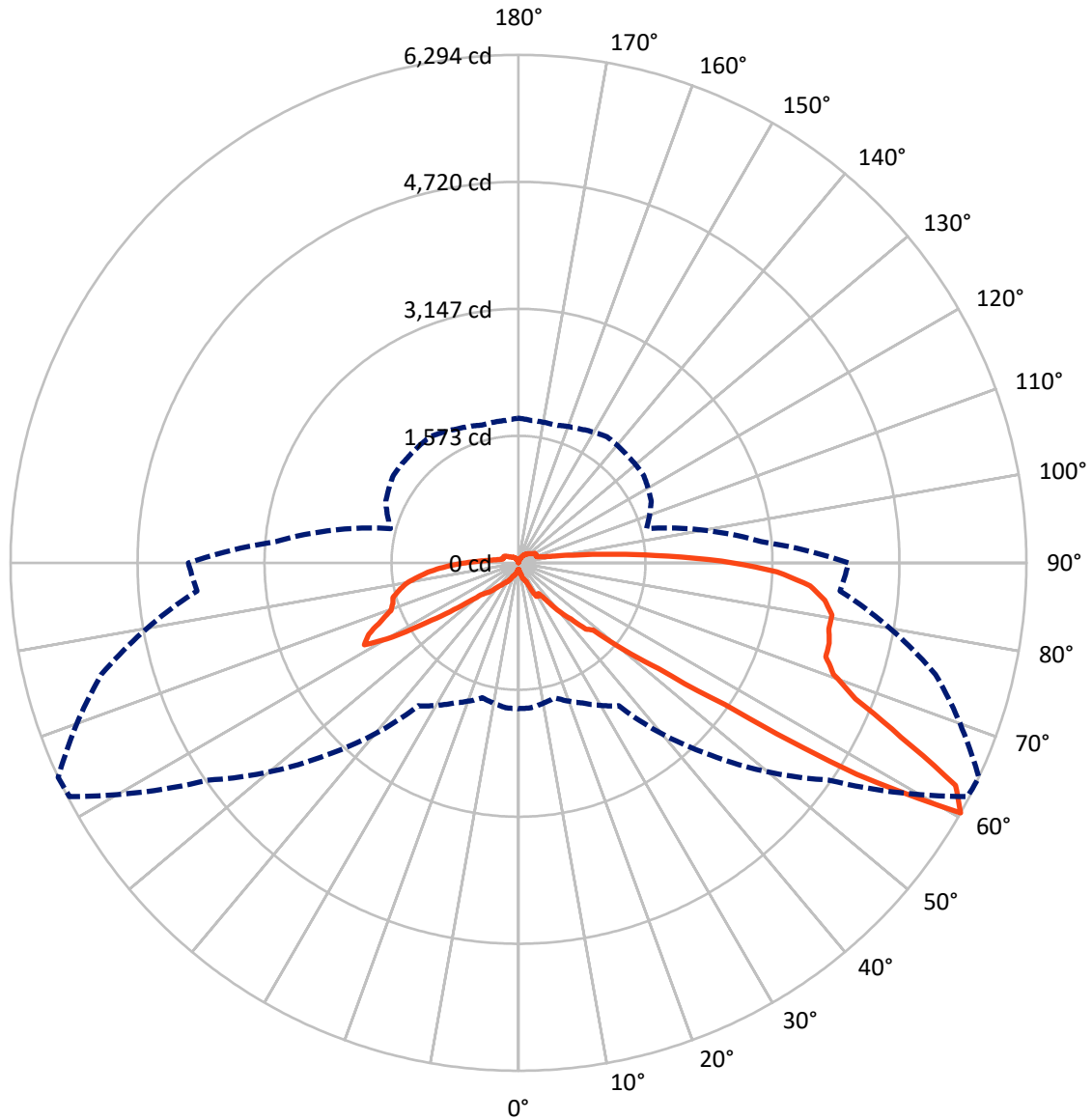
× Max cd
 - - - 1/2 Max cd



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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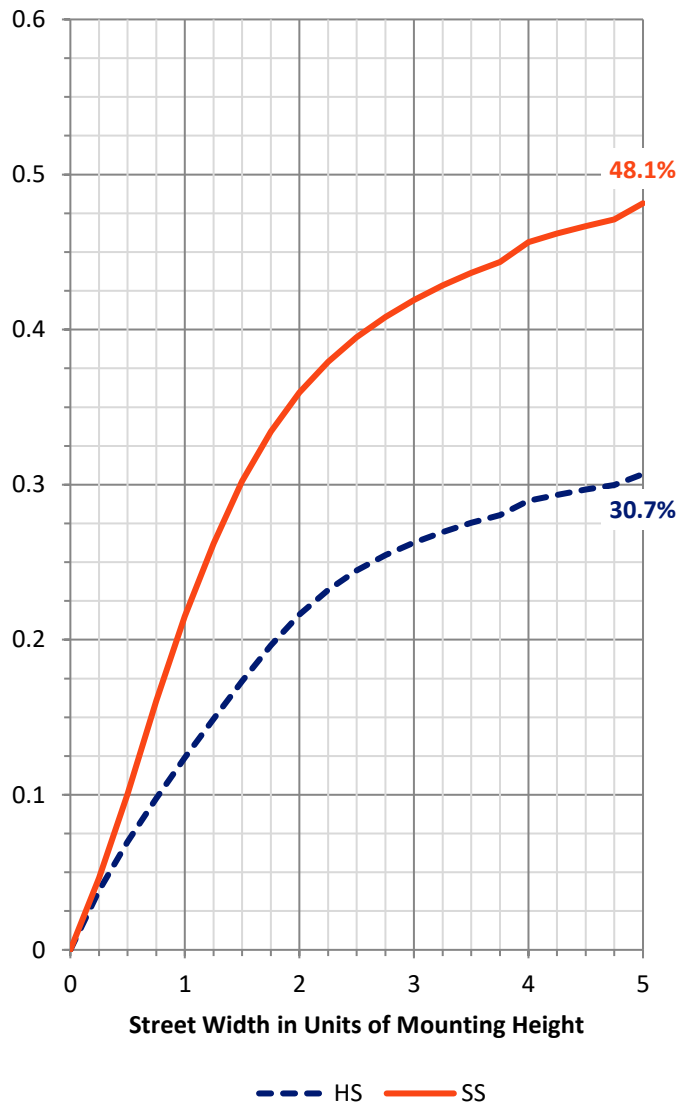
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3636.9	582.4	4219.3
	% Fixture	33.3	5.3	38.7
Street Side	Lumens	5818.6	868.1	6686.7
	% Fixture	53.4	8.0	61.3
Total	Lumens	9455.5	1450.6	10906.0
	% Fixture	86.7	13.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.5	0.1
10°-20°	46.6	0.4
20°-30°	133.2	1.2
30°-40°	286.9	2.6
40°-50°	542.8	5.0
50°-60°	1516.3	13.9
60°-70°	2703.3	24.8
70°-80°	2366.8	21.7
80°-90°	1849.2	17.0
90°-100°	699.1	6.4
100°-110°	240.5	2.2
110°-120°	196.6	1.8
120°-130°	132.1	1.2
130°-140°	90.7	0.8
140°-150°	57.0	0.5
150°-160°	26.4	0.2
160°-170°	7.5	0.1
170°-180°	0.7	0.0
0°-90°	9455.5	86.7
0°-180°	10906.0	100.0

Coefficient of Utilization



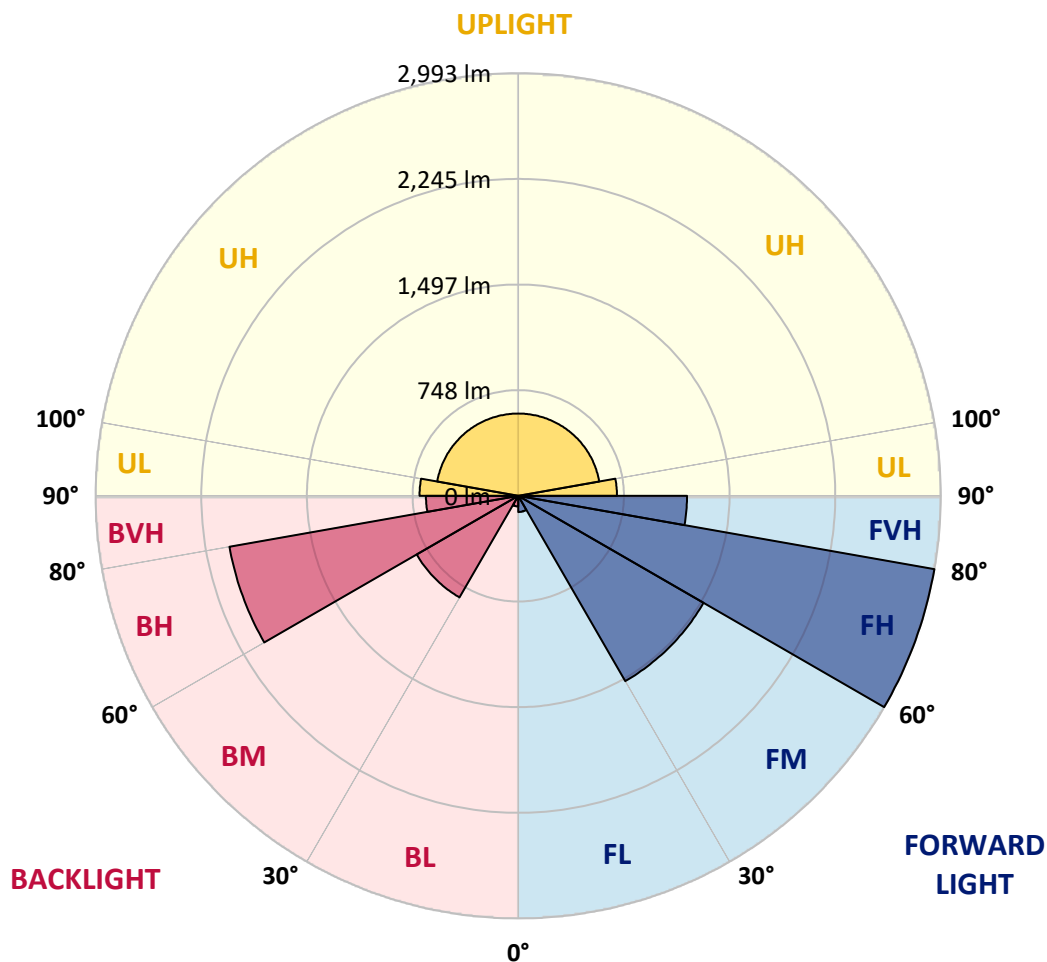
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	114.9	1.1			
FM (30°-60°)	1515.3	13.9			
FH (60°-80°)	2993.1	27.4			G2/5000
FVH (80°-90°)	1195.3	11.0			G5
BL (0°-30°)	75.3	0.7	B0/110		
BM (30°-60°)	830.7	7.6	B1/1000		
BH (60°-80°)	2076.9	19.0	B3/2500		G3/2500
BVH (80°-90°)	653.9	6.0			G4/750
UL (90°-100°)	699.1	6.4		U4/1000	
UH (100°-180°)	582.4	5.3		U4/1000	

BUG Rating: B3-U4-G5

Type III Short





REPORT NUMBER: P588520
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
2.5°	96.1	93.3	90.5	90.5	89.1	87.7	87.7	84.8	86.3	84.8	84.8
5°	113.1	111.7	108.9	110.3	107.5	106.0	106.0	104.6	103.2	101.8	97.6
7.5°	131.5	131.5	132.9	134.3	130.1	125.8	124.4	121.6	121.6	120.2	117.4
10°	151.3	149.9	144.2	144.2	141.4	138.6	140.0	138.6	138.6	138.6	132.9
12.5°	156.9	155.5	151.3	151.3	151.3	149.9	155.5	154.1	155.5	154.1	145.6
15°	176.7	175.3	173.9	175.3	181.0	192.3	206.4	200.8	202.2	199.4	168.3
17.5°	185.2	189.5	192.3	193.7	199.4	199.4	202.2	200.8	206.4	210.7	192.3
20°	214.9	212.1	214.9	224.8	239.0	240.4	236.1	236.1	239.0	240.4	205.0
22.5°	227.6	226.2	237.5	229.1	229.1	236.1	261.6	253.1	253.1	250.3	220.6
25°	295.5	301.2	312.5	326.6	360.6	370.5	398.7	367.6	371.9	328.0	280.0
27.5°	354.9	359.1	425.6	485.0	511.8	497.7	521.7	463.8	469.4	475.1	408.6
30°	373.3	381.8	477.9	521.7	557.1	528.8	559.9	483.6	479.3	511.8	485.0
32.5°	359.1	367.6	469.4	487.8	524.6	629.2	589.6	466.6	453.9	469.4	502.0
35°	394.5	400.1	460.9	417.1	451.0	879.5	772.0	544.4	518.9	432.7	480.7
37.5°	473.7	473.7	545.8	576.9	602.3	1037.8	1013.8	677.3	657.5	506.2	555.7
40°	574.1	571.2	660.3	681.5	692.8	940.3	1225.9	863.9	820.1	595.3	723.9
42.5°	634.9	629.2	701.3	723.9	723.9	796.1	1387.1	1052.0	950.2	694.2	885.1
45°	658.9	664.6	757.9	729.6	750.8	817.3	1559.6	1312.1	1169.3	814.4	1026.5
47.5°	596.7	605.2	739.5	742.3	634.9	653.2	1398.4	1363.0	1245.7	872.4	1071.8
50°	732.4	738.1	786.2	753.6	701.3	827.2	1665.6	1751.9	1701.0	1080.3	1131.2
52.5°	1005.3	1030.8	1076.0	1104.3	1088.7	1389.9	2234.0	2218.5	2176.1	1621.8	1544.0
55°	1302.2	1323.5	1387.1	1558.2	1688.3	2081.3	2778.4	3103.6	3100.8	2634.2	2406.5
57.5°	1572.3	1573.7	1582.2	1792.9	1993.7	2717.6	3639.5	4834.3	4941.7	4207.9	3445.8
60°	1807.0	1802.8	1730.7	1918.7	2163.3	3369.4	4691.5	6272.3	6293.5	5350.4	3997.2
62.5°	1870.7	1857.9	1753.3	1928.6	2137.9	3382.2	4960.1	6101.2	6077.1	5431.0	4069.3
65°	1815.5	1802.8	1669.9	1826.8	1925.8	3073.9	4581.2	5247.2	5207.6	4961.5	3874.2
67.5°	1733.5	1742.0	1610.5	1730.7	1798.5	2883.0	4182.5	4514.7	4503.4	4623.6	3711.6
70°	1614.7	1621.8	1501.6	1650.1	1749.1	2761.4	3800.7	4161.2	4141.4	4318.2	3472.7
72.5°	1619.0	1640.2	1497.4	1609.1	1712.3	2594.6	3628.2	4039.6	3981.7	4008.5	3185.6
75°	1630.3	1658.6	1507.3	1607.7	1703.8	2533.8	3608.4	4049.5	3976.0	3896.8	3076.7
77.5°	1634.5	1675.5	1512.9	1623.2	1706.6	2450.4	3563.1	4000.1	3930.8	3789.4	2948.1
80°	1600.6	1644.4	1488.9	1624.6	1688.3	2284.9	3448.6	3991.6	3939.3	3775.2	2895.8
82.5°	1532.7	1576.6	1442.2	1553.9	1652.9	2116.7	3287.4	3826.1	3823.3	3639.5	2785.5
85°	1384.3	1432.3	1330.5	1433.7	1555.3	1893.3	2962.2	3544.8	3622.5	3474.1	2637.0
87.5°	1241.4	1289.5	1235.8	1293.8	1416.8	1645.8	2545.1	3059.8	3205.4	3082.4	2265.1
90°	1078.8	1128.3	1084.5	1061.9	1160.8	1313.6	2034.7	2379.7	2516.8	2441.9	1667.0
92.5°	863.9	906.3	865.3	813.0	872.4	964.3	1511.5	1665.6	1698.1	1626.0	1093.0
95°	653.2	684.4	647.6	595.3	602.3	660.3	1042.1	1091.6	1083.1	996.8	694.2
97.5°	453.9	472.3	448.2	411.5	424.2	460.9	690.0	684.4	684.4	609.4	453.9
100°	315.3	322.4	311.1	294.1	304.0	328.0	463.8	462.4	448.2	411.5	330.9
102.5°	250.3	251.7	240.4	229.1	223.4	246.0	335.1	333.7	336.5	319.6	258.8
105°	220.6	219.2	209.3	199.4	188.1	210.7	265.8	277.1	275.7	261.6	222.0
107.5°	202.2	200.8	190.9	182.4	172.5	192.3	230.5	246.0	244.6	243.2	209.3
110°	188.1	186.6	178.2	169.7	161.2	183.8	216.3	240.4	240.4	240.4	212.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
112.5°	178.2	178.2	171.1	164.0	156.9	182.4	207.9	236.1	236.1	243.2	222.0
115°	172.5	171.1	165.4	161.2	155.5	183.8	205.0	233.3	234.7	244.6	220.6
117.5°	168.3	166.8	162.6	156.9	154.1	181.0	206.4	239.0	237.5	253.1	216.3
120°	161.2	158.4	152.7	147.1	144.2	166.8	200.8	231.9	229.1	236.1	199.4
122.5°	155.5	147.1	137.2	132.9	132.9	151.3	188.1	209.3	206.4	200.8	179.6
125°	142.8	134.3	125.8	124.4	125.8	141.4	179.6	192.3	193.7	189.5	169.7
127.5°	128.7	123.0	118.8	118.8	121.6	138.6	176.7	185.2	185.2	176.7	161.2
130°	121.6	120.2	117.4	117.4	123.0	140.0	172.5	175.3	175.3	164.0	156.9
132.5°	118.8	115.9	113.1	113.1	118.8	135.7	161.2	166.8	165.4	154.1	148.5
135°	113.1	111.7	108.9	108.9	115.9	132.9	151.3	156.9	155.5	141.4	137.2
137.5°	110.3	107.5	107.5	107.5	114.5	131.5	142.8	147.1	145.6	131.5	127.3
140°	106.0	104.6	101.8	101.8	111.7	127.3	134.3	135.7	134.3	123.0	118.8
142.5°	99.0	97.6	96.1	99.0	108.9	120.2	125.8	125.8	124.4	117.4	111.7
145°	94.7	93.3	91.9	99.0	107.5	113.1	118.8	114.5	114.5	110.3	104.6
147.5°	90.5	89.1	89.1	94.7	101.8	101.8	106.0	104.6	106.0	104.6	99.0
150°	82.0	80.6	80.6	84.8	86.3	86.3	90.5	90.5	90.5	90.5	86.3
152.5°	72.1	70.7	72.1	73.5	73.5	73.5	76.4	77.8	77.8	76.4	74.9
155°	62.2	62.2	62.2	63.6	63.6	62.2	66.5	66.5	66.5	66.5	65.0
157.5°	55.1	55.1	55.1	55.1	55.1	53.7	56.6	56.6	58.0	56.6	56.6
160°	48.1	46.7	46.7	46.7	46.7	45.2	46.7	46.7	46.7	48.1	48.1
162.5°	38.2	36.8	36.8	36.8	36.8	33.9	36.8	35.3	36.8	36.8	38.2
165°	31.1	29.7	29.7	29.7	28.3	26.9	28.3	26.9	26.9	26.9	28.3
167.5°	24.0	24.0	22.6	24.0	22.6	19.8	19.8	18.4	18.4	18.4	18.4
170°	18.4	17.0	15.6	17.0	15.6	12.7	12.7	11.3	11.3	9.9	9.9
172.5°	12.7	11.3	9.9	11.3	9.9	7.1	7.1	4.2	4.2	4.2	4.2
175°	11.3	9.9	8.5	9.9	8.5	5.7	4.2	2.8	2.8	2.8	2.8
177.5°	11.3	9.9	8.5	9.9	8.5	5.7	4.2	2.8	2.8	2.8	2.8
180°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
2.5°	84.8	83.4	82.0	84.8	83.4	84.8	86.3	87.7	87.7	86.3	86.3
5°	97.6	96.1	93.3	91.9	89.1	89.1	89.1	91.9	91.9	90.5	91.9
7.5°	115.9	113.1	108.9	106.0	101.8	101.8	100.4	103.2	104.6	101.8	103.2
10°	130.1	128.7	123.0	118.8	114.5	113.1	113.1	114.5	114.5	113.1	113.1
12.5°	142.8	140.0	134.3	130.1	124.4	123.0	123.0	124.4	124.4	123.0	123.0
15°	161.2	152.7	147.1	142.8	137.2	135.7	134.3	135.7	137.2	134.3	134.3
17.5°	186.6	176.7	164.0	152.7	147.1	149.9	151.3	152.7	151.3	147.1	147.1
20°	200.8	195.1	178.2	169.7	162.6	162.6	162.6	162.6	162.6	161.2	162.6
22.5°	210.7	202.2	181.0	175.3	171.1	173.9	176.7	178.2	178.2	176.7	176.7
25°	255.9	224.8	203.6	199.4	193.7	195.1	192.3	192.3	193.7	192.3	195.1
27.5°	352.1	301.2	253.1	236.1	231.9	231.9	234.7	234.7	234.7	234.7	233.3
30°	422.8	363.4	284.2	261.6	258.8	271.5	278.5	284.2	281.4	277.1	277.1
32.5°	434.1	369.0	289.9	281.4	288.4	298.3	305.4	309.7	313.9	312.5	311.1
35°	410.0	340.8	285.6	296.9	302.6	308.2	309.7	306.8	319.6	325.2	326.6
37.5°	458.1	381.8	332.3	340.8	333.7	328.0	330.9	332.3	349.2	357.7	366.2
40°	585.4	460.9	377.5	373.3	369.0	381.8	398.7	407.2	405.8	400.1	401.6
42.5°	708.4	538.7	425.6	424.2	422.8	445.4	472.3	470.8	458.1	448.2	448.2
45°	834.2	613.7	502.0	503.4	500.5	509.0	516.1	510.4	511.8	514.7	517.5
47.5°	912.0	681.5	550.0	545.8	527.4	544.4	564.2	551.4	547.2	540.1	543.0
50°	930.4	698.5	578.3	609.4	592.4	579.7	558.5	550.0	565.6	576.9	585.4
52.5°	1208.9	862.5	722.5	772.0	749.4	704.1	699.9	685.8	702.7	704.1	714.0
55°	2026.2	1382.8	995.4	1043.5	1044.9	1029.4	1100.1	1060.5	1025.1	1009.6	1003.9
57.5°	3194.1	2137.9	1288.1	1348.9	1406.9	1462.0	1558.2	1477.6	1375.8	1363.0	1377.2
60°	4090.5	3018.8	1643.0	1814.1	1891.9	1894.7	1907.4	1828.2	1766.0	1771.7	1791.5
62.5°	4282.8	3754.0	2092.6	2163.3	2170.4	2118.1	2140.7	2191.6	2104.0	2034.7	2053.1
65°	4154.2	4045.3	2239.7	2055.9	2044.6	2053.1	2207.2	2348.6	2171.8	1996.5	1996.5
67.5°	3905.3	3823.3	2089.8	1849.4	1880.5	1976.7	2171.8	2242.5	2054.5	1867.8	1867.8
70°	3639.5	3475.5	1921.6	1685.4	1761.8	1873.5	2000.7	2006.4	1896.1	1763.2	1754.7
72.5°	3352.5	3204.0	1849.4	1637.3	1672.7	1692.5	1761.8	1805.6	1792.9	1706.6	1705.2
75°	3267.6	3147.4	1848.0	1614.7	1593.5	1586.4	1634.5	1729.3	1773.1	1722.2	1725.0
77.5°	3139.0	3066.8	1761.8	1520.0	1497.4	1497.4	1522.8	1599.2	1665.6	1644.4	1651.5
80°	3049.9	2941.0	1630.3	1416.8	1385.7	1389.9	1392.7	1445.1	1507.3	1510.1	1510.1
82.5°	2878.8	2673.8	1430.9	1262.7	1241.4	1247.1	1237.2	1266.9	1283.9	1305.1	1300.8
85°	2597.4	2307.6	1208.9	1094.4	1060.5	1049.1	1040.7	1042.1	1052.0	1047.7	1030.8
87.5°	2176.1	1829.6	964.3	897.9	858.3	830.0	818.7	804.5	803.1	787.6	793.2
90°	1606.2	1255.6	715.5	691.4	663.1	633.4	617.9	603.8	592.4	576.9	571.2
92.5°	1047.7	808.8	523.2	510.4	492.1	475.1	468.0	460.9	458.1	445.4	449.6
95°	654.7	547.2	393.1	378.9	369.0	364.8	366.2	367.6	364.8	350.7	354.9
97.5°	436.9	395.9	306.8	296.9	287.0	285.6	287.0	289.9	291.3	281.4	284.2
100°	322.4	304.0	251.7	244.6	236.1	233.3	234.7	237.5	239.0	230.5	231.9
102.5°	255.9	247.4	217.7	214.9	205.0	202.2	205.0	206.4	207.9	202.2	202.2
105°	224.8	224.8	200.8	199.4	192.3	189.5	190.9	192.3	193.7	188.1	188.1
107.5°	216.3	217.7	193.7	195.1	190.9	189.5	192.3	195.1	193.7	189.5	188.1
110°	223.4	226.2	193.7	198.0	199.4	202.2	207.9	209.3	209.3	206.4	207.9



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	230.5	234.7	190.9	200.8	210.7	217.7	227.6	233.3	230.5	229.1	230.5
115°	224.8	227.6	178.2	193.7	212.1	222.0	224.8	224.8	217.7	217.7	219.2
117.5°	217.7	223.4	165.4	178.2	190.9	199.4	198.0	193.7	185.2	182.4	190.9
120°	202.2	219.2	158.4	161.2	162.6	165.4	161.2	156.9	149.9	148.5	154.1
122.5°	186.6	202.2	145.6	142.8	141.4	141.4	140.0	138.6	134.3	135.7	141.4
125°	173.9	182.4	132.9	128.7	127.3	128.7	128.7	128.7	125.8	123.0	123.0
127.5°	164.0	166.8	125.8	120.2	118.8	118.8	118.8	120.2	118.8	114.5	114.5
130°	158.4	156.9	121.6	111.7	110.3	111.7	111.7	113.1	110.3	107.5	107.5
132.5°	147.1	144.2	115.9	106.0	104.6	106.0	106.0	106.0	103.2	100.4	100.4
135°	134.3	131.5	108.9	99.0	97.6	99.0	99.0	100.4	97.6	94.7	94.7
137.5°	124.4	121.6	101.8	93.3	91.9	91.9	93.3	93.3	91.9	89.1	89.1
140°	115.9	113.1	94.7	87.7	84.8	86.3	86.3	86.3	84.8	82.0	82.0
142.5°	108.9	107.5	87.7	80.6	77.8	79.2	79.2	80.6	77.8	74.9	74.9
145°	103.2	100.4	82.0	73.5	72.1	72.1	72.1	73.5	70.7	67.9	67.9
147.5°	97.6	94.7	74.9	66.5	65.0	65.0	65.0	65.0	63.6	60.8	59.4
150°	86.3	84.8	69.3	60.8	58.0	58.0	58.0	56.6	53.7	50.9	50.9
152.5°	73.5	72.1	60.8	53.7	50.9	50.9	49.5	49.5	46.7	45.2	43.8
155°	63.6	63.6	55.1	48.1	45.2	43.8	42.4	42.4	41.0	39.6	38.2
157.5°	56.6	55.1	49.5	43.8	38.2	38.2	36.8	36.8	35.3	33.9	32.5
160°	48.1	48.1	42.4	36.8	32.5	31.1	31.1	29.7	28.3	26.9	26.9
162.5°	38.2	38.2	33.9	29.7	25.5	25.5	24.0	24.0	22.6	21.2	19.8
165°	26.9	26.9	25.5	22.6	19.8	18.4	18.4	18.4	17.0	15.6	15.6
167.5°	18.4	18.4	17.0	15.6	14.1	12.7	14.1	14.1	12.7	11.3	11.3
170°	9.9	9.9	8.5	8.5	7.1	7.1	8.5	9.9	8.5	7.1	5.7
172.5°	4.2	4.2	4.2	4.2	2.8	4.2	5.7	7.1	5.7	4.2	4.2
175°	2.8	2.8	4.2	4.2	2.8	4.2	5.7	7.1	5.7	4.2	4.2
177.5°	2.8	2.8	4.2	4.2	2.8	4.2	5.7	7.1	5.7	4.2	4.2
180°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7

(END OF REPORT)