

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: P271568

Luminaire Tested: **ISS-AF-350-LED-E1-T3-7027-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271568
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29759)-DOWNLIGHT AND
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISS-AF-350-LED-E1-T3-7027-ULG
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III, WITH UPLIGHT GLOW
Light Source: (16) 2700K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3471.7 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U5 - G1

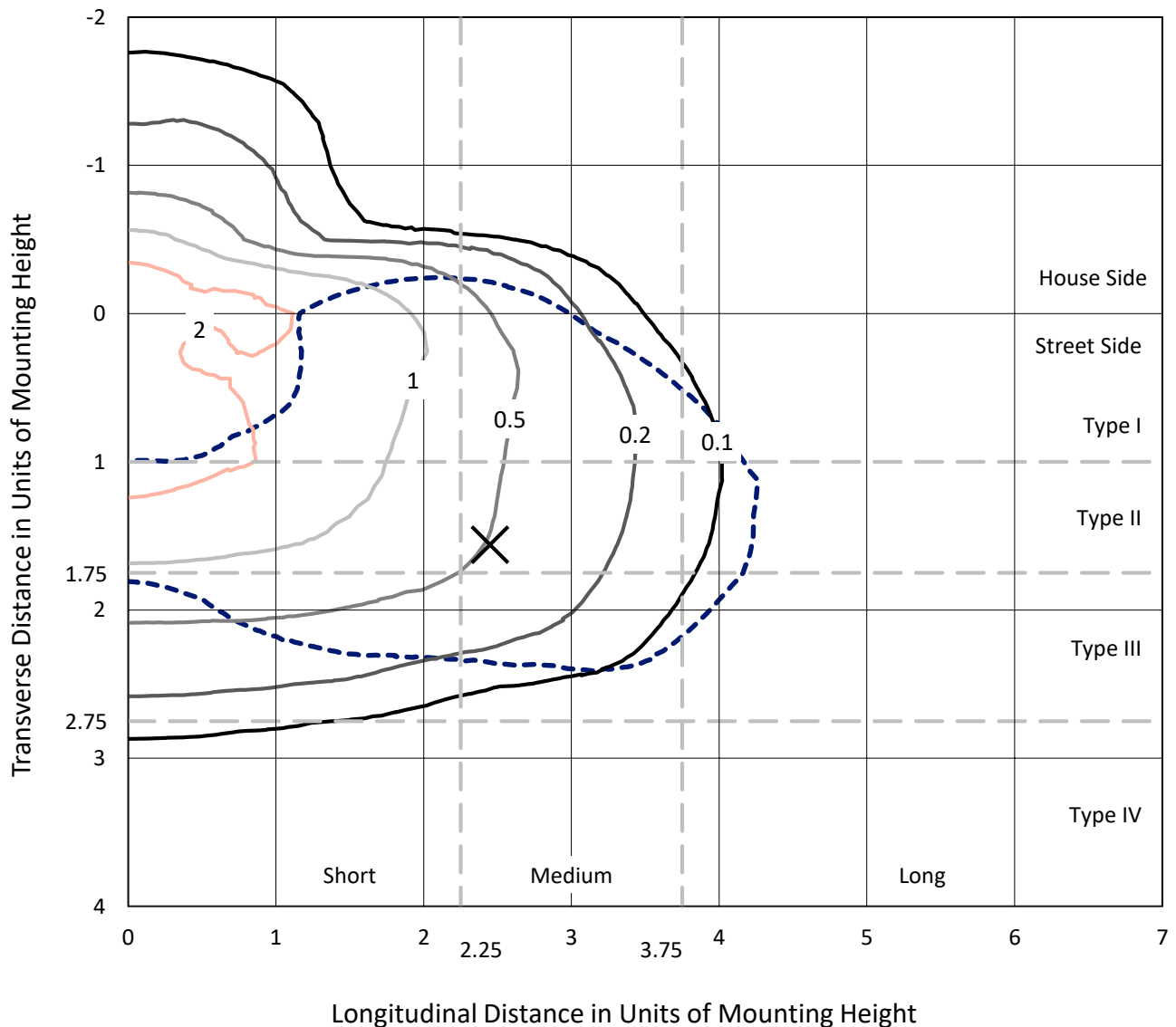
Input Watts (W): 36.79
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

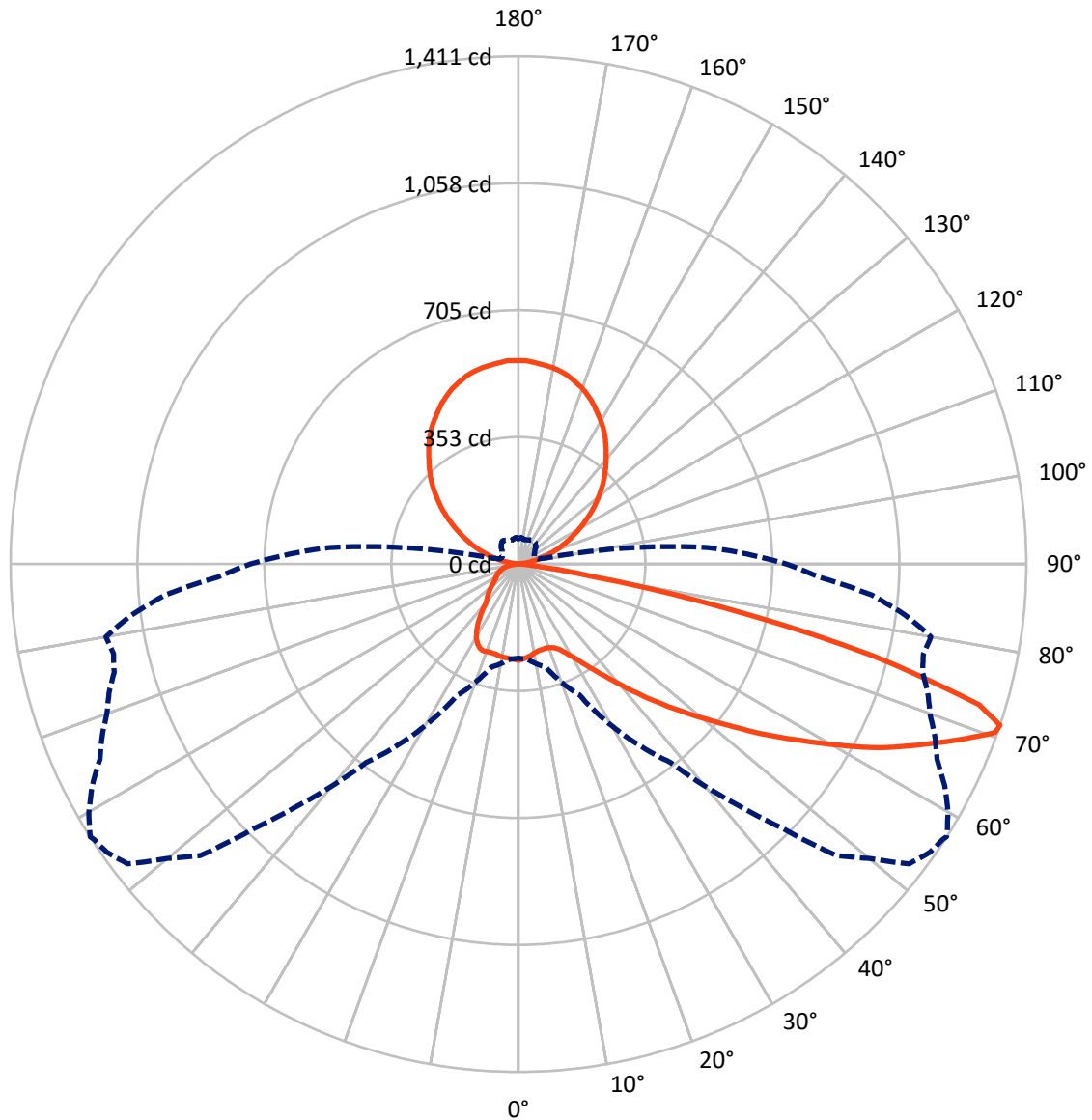
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.7 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 57.5-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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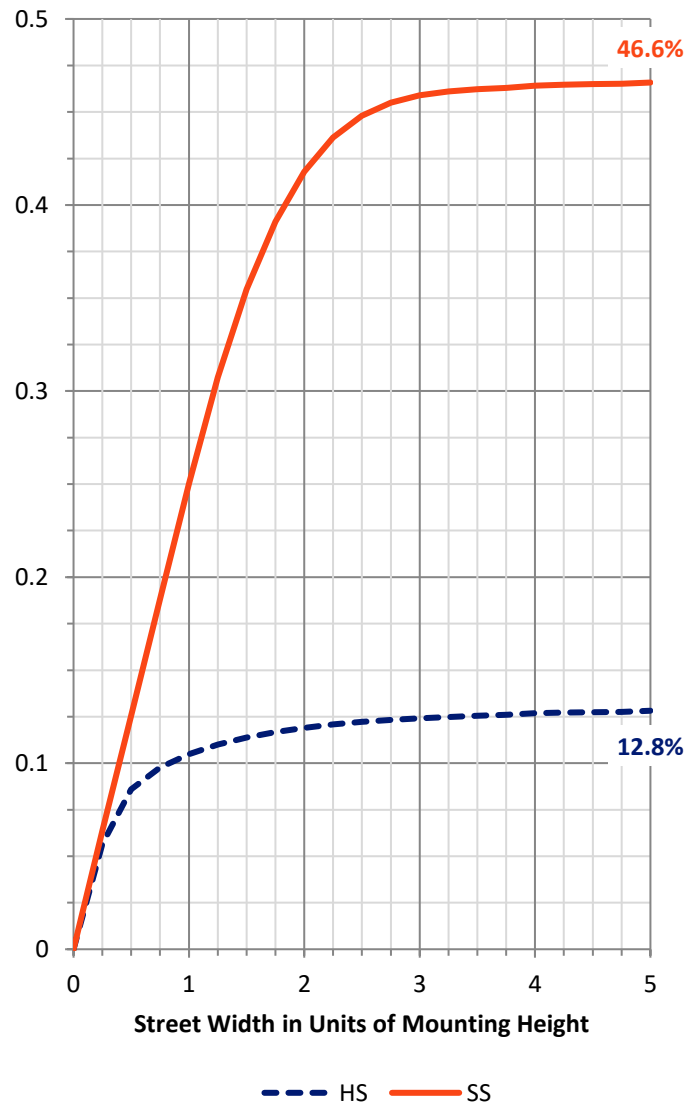
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	451.1	699.9	1151.0
	% Fixture	13.0	20.2	33.2
Street Side	Lumens	1620.9	699.9	2320.7
	% Fixture	46.7	20.2	66.8
Total	Lumens	2071.9	1399.8	3471.7
	% Fixture	59.7	40.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.2	0.7
10°-20°	72.6	2.1
20°-30°	120.5	3.5
30°-40°	191.8	5.5
40°-50°	311.6	9.0
50°-60°	467.2	13.5
60°-70°	557.4	16.1
70°-80°	301.1	8.7
80°-90°	24.5	0.7
90°-100°	4.7	0.1
100°-110°	67.7	2.0
110°-120°	150.2	4.3
120°-130°	219.7	6.3
130°-140°	260.7	7.5
140°-150°	264.3	7.6
150°-160°	226.8	6.5
160°-170°	152.2	4.4
170°-180°	53.3	1.5
0°-90°	2071.9	59.7
0°-180°	3471.7	100.0



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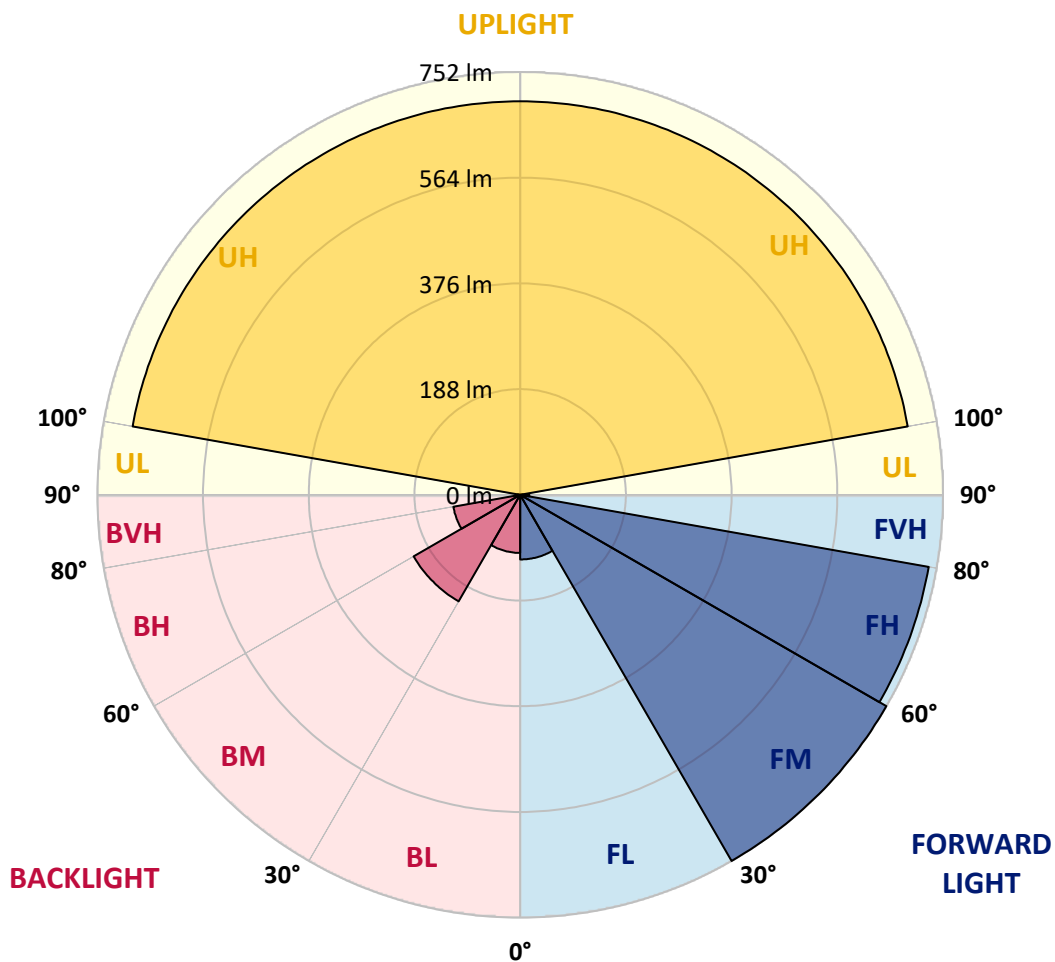
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	114.9	3.3			
FM	(30°-60°)	752.0	21.7			
FH	(60°-80°)	737.8	21.3			G1/1800
FVH	(80°-90°)	16.1	0.5			G1/100
BL	(0°-30°)	103.3	3.0	B0/110		
BM	(30°-60°)	218.7	6.3	B0/220		
BH	(60°-80°)	120.7	3.5	B1/500		G1/500
BVH	(80°-90°)	8.4	0.2			G0/10
UL	(90°-100°)	4.7	0.1		U1/10	
UH	(100°-180°)	699.9	20.2		U4/1000	

BUG Rating: B1-U5-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	267.7	267.7	267.7	267.7	267.7	267.7	267.7	267.7	267.7	267.7	267.7
2.5°	267.7	267.0	266.3	266.3	266.3	265.6	263.6	264.2	266.3	264.9	267.0
5°	267.0	265.6	264.9	264.9	264.9	262.8	262.1	261.5	265.6	262.1	264.9
7.5°	259.4	259.4	258.0	259.4	260.8	258.7	257.4	258.0	261.5	258.0	261.5
10°	254.0	252.6	252.0	252.0	253.3	250.5	249.2	250.5	254.7	250.5	255.4
12.5°	252.0	252.6	250.5	250.5	249.9	246.4	246.4	246.4	249.9	246.4	250.5
15°	255.4	254.7	252.6	251.3	249.2	246.4	245.8	246.4	249.2	245.1	249.9
17.5°	260.1	260.1	256.6	253.3	251.3	248.5	248.5	247.1	249.2	246.4	249.9
20°	272.5	270.4	265.6	260.1	254.7	253.3	250.5	250.5	252.0	249.2	251.3
22.5°	293.7	291.6	283.4	273.2	264.2	260.8	259.4	258.7	257.4	256.1	256.1
25°	321.8	318.3	308.7	296.4	281.3	278.7	275.9	273.8	269.0	269.0	265.6
27.5°	351.9	348.5	338.1	324.5	306.1	301.9	298.5	295.7	287.5	287.5	281.3
30°	386.1	382.0	369.7	354.7	333.5	332.0	327.3	323.1	312.1	311.4	303.3
32.5°	425.8	420.2	408.0	388.2	365.5	366.1	358.7	356.0	341.5	342.3	331.4
35°	471.0	464.9	452.5	426.4	403.2	405.2	398.4	393.5	375.9	375.9	364.3
37.5°	519.0	519.0	503.1	473.0	445.0	449.7	441.6	436.8	418.9	421.7	403.2
40°	572.3	575.7	558.6	524.4	495.7	497.8	491.6	486.1	464.9	469.6	449.7
42.5°	628.5	634.7	619.5	583.9	551.8	558.6	548.3	542.8	520.3	530.4	507.3
45°	709.9	711.3	683.3	648.9	622.3	628.5	614.0	611.9	583.9	594.9	571.6
47.5°	761.2	757.8	737.3	716.7	700.9	713.3	700.3	696.8	664.7	672.2	639.3
50°	796.2	798.1	782.4	780.4	783.1	806.4	804.3	797.4	759.2	753.7	712.6
52.5°	827.6	818.7	816.0	835.2	864.6	891.9	903.0	894.0	852.2	837.2	797.4
55°	822.2	809.1	823.6	870.1	928.3	970.7	972.1	965.9	928.3	922.1	878.9
57.5°	785.2	787.9	817.4	883.8	982.4	1026.1	1033.7	1026.1	995.3	1000.8	965.2
60°	733.8	739.3	785.8	871.4	1025.4	1063.1	1066.6	1075.5	1054.9	1069.3	1044.5
62.5°	657.2	664.7	724.2	840.6	995.3	1051.5	1083.0	1103.5	1099.3	1132.2	1119.3
65°	603.8	603.8	661.9	805.0	965.9	1039.9	1087.1	1125.4	1130.9	1182.9	1178.0
67.5°	504.5	507.9	557.8	705.8	930.4	1013.7	1085.1	1150.0	1182.9	1265.0	1269.1
70°	349.1	351.9	384.7	503.8	751.6	822.8	927.6	1033.7	1132.2	1256.2	1320.5
71°	261.5	264.9	297.1	401.8	636.6	695.5	804.3	914.6	1038.5	1199.3	1271.9
72.5°	128.0	130.1	161.5	258.0	443.0	518.2	581.1	686.7	818.1	1002.1	1104.8
75°	59.6	60.3	67.1	93.2	169.2	201.3	229.3	297.1	378.5	540.2	664.7
77.5°	43.7	43.7	47.9	60.9	87.7	89.0	87.7	89.7	108.2	154.7	232.8
80°	32.2	32.2	34.9	41.1	58.2	58.2	56.1	56.9	54.8	56.9	64.4
82.5°	21.2	21.2	22.5	24.6	35.7	35.7	34.2	34.2	32.9	32.2	34.9
85°	12.4	13.0	13.7	11.7	15.0	14.4	13.0	14.4	13.7	12.4	15.0
87.5°	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.7	0.0	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	2.0	2.0	2.0	3.0	4.0	5.1	6.4	7.6	8.8	9.8	10.8
100°	7.8	7.8	9.8	13.7	21.6	23.5	25.5	27.5	29.5	29.9	30.5
102.5°	27.5	27.5	31.4	37.3	44.2	45.4	46.6	47.9	49.0	49.2	49.6
105°	53.0	53.0	55.0	59.8	64.8	65.8	66.7	67.7	68.7	68.9	69.2
107.5°	76.5	75.5	78.5	82.5	86.3	87.1	87.9	88.6	89.3	89.8	90.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
110°	99.2	100.1	101.1	104.0	108.0	108.4	109.0	109.4	110.0	110.4	110.9
112.5°	121.7	121.7	123.7	126.6	129.5	130.1	130.5	131.1	131.5	132.1	132.5
115°	143.3	144.3	146.2	148.2	151.2	151.6	152.2	152.6	153.1	153.6	154.1
117.5°	165.8	166.8	168.8	170.8	173.7	174.2	174.7	175.2	175.7	175.9	176.2
120°	189.5	191.4	192.3	194.3	197.3	197.4	197.8	198.1	198.3	198.7	199.2
122.5°	215.0	216.0	216.9	218.8	221.8	222.0	222.3	222.6	222.8	223.0	223.3
125°	239.5	241.5	242.5	243.4	246.3	246.6	246.9	247.1	247.3	247.6	247.8
127.5°	262.0	264.0	265.0	267.0	269.0	269.4	269.9	270.4	270.9	271.4	271.8
130°	284.7	286.6	287.5	288.5	292.5	292.7	292.9	293.3	293.5	293.9	294.5
132.5°	307.2	308.2	311.2	312.1	315.0	315.2	315.6	315.8	316.0	316.8	317.6
135°	329.8	330.8	332.7	334.7	338.6	338.6	338.6	338.6	338.6	339.4	340.1
137.5°	352.3	353.3	356.3	357.3	360.2	360.2	360.2	360.2	360.2	360.7	361.2
140°	375.0	375.9	377.8	378.8	380.8	381.0	381.3	381.6	381.8	382.0	382.3
142.5°	396.5	398.5	400.5	399.5	402.4	402.4	402.4	402.4	402.4	402.9	403.4
145°	417.2	418.1	420.0	420.0	423.0	423.2	423.6	423.8	424.0	424.4	425.0
147.5°	435.8	435.8	438.7	439.7	443.7	443.9	444.1	444.4	444.6	444.8	445.1
150°	452.5	453.5	455.4	456.4	460.3	460.5	460.8	461.1	461.3	461.5	461.8
152.5°	470.2	471.1	474.0	473.0	476.0	476.2	476.6	476.8	477.0	477.2	477.4
155°	489.8	490.7	492.7	491.7	493.7	493.7	493.7	493.7	493.7	493.9	494.2
157.5°	503.5	505.5	507.5	506.5	509.4	509.4	509.4	509.4	509.4	509.4	509.4
160°	515.3	517.2	519.2	519.2	522.2	522.2	522.2	522.2	522.2	522.2	522.2
162.5°	525.1	526.0	529.0	528.0	531.0	531.0	531.0	531.0	531.0	531.2	531.4
165°	535.9	536.8	538.8	537.8	541.8	541.8	541.8	541.8	541.8	541.9	542.3
167.5°	544.7	545.7	548.7	547.7	550.6	550.4	550.1	549.9	549.7	549.7	549.7
170°	551.6	552.5	555.5	554.5	556.5	556.3	556.1	555.7	555.5	555.3	555.1
172.5°	554.5	555.5	558.5	556.5	558.5	558.3	557.9	557.7	557.5	557.7	557.9
175°	556.5	558.5	559.5	558.5	561.4	561.4	561.4	561.4	561.4	561.6	561.9
177.5°	561.4	562.4	564.3	563.3	567.3	567.1	566.8	566.5	566.3	566.3	566.3
180°	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3



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CANDELA DISTRIBUTION (continued):

	52.5°	55°	57°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	267.7	267.7	267.7	267.7	267.7	267.7	267.7	267.7	267.7	267.7	267.7
2.5°	264.2	266.3	266.3	263.6	265.6	263.6	264.9	262.8	264.9	261.5	265.6
5°	262.1	264.2	264.2	260.1	264.2	260.1	263.6	258.7	263.6	258.0	263.6
7.5°	256.6	261.5	261.5	256.1	260.8	256.6	260.8	256.1	260.1	254.0	260.8
10°	250.5	255.4	256.1	250.5	256.1	251.3	257.4	251.3	257.4	250.5	258.0
12.5°	246.4	252.0	253.3	247.1	254.0	247.8	255.4	248.5	255.4	247.8	256.6
15°	245.8	250.5	252.0	246.4	252.6	245.8	254.7	246.4	255.4	247.1	257.4
17.5°	246.4	250.5	252.0	245.8	252.0	246.4	254.0	247.1	255.4	247.8	257.4
20°	248.5	251.3	251.3	247.8	252.6	247.8	254.0	247.1	256.1	249.2	258.0
22.5°	254.7	255.4	255.4	252.6	255.4	252.0	256.6	252.0	258.0	252.6	260.8
25°	264.9	264.2	262.8	262.1	262.8	260.8	263.6	260.1	266.3	261.5	269.7
27.5°	282.8	280.0	278.7	278.7	277.9	278.7	278.7	277.3	280.0	278.7	284.0
30°	304.6	299.9	297.8	299.9	297.1	299.9	299.1	298.5	301.2	299.9	304.6
32.5°	333.5	325.2	323.7	327.9	322.4	327.3	323.1	325.2	327.3	328.6	331.4
35°	366.9	357.3	356.0	360.1	353.9	360.8	356.0	358.7	360.1	363.5	365.5
37.5°	406.7	395.0	392.9	398.4	390.2	397.7	390.9	399.0	397.1	401.8	403.9
40°	454.5	440.9	436.0	443.7	434.0	440.2	433.3	442.2	440.2	449.7	451.8
42.5°	513.4	493.6	488.8	496.3	481.9	484.0	478.4	488.8	487.4	500.4	502.4
45°	574.4	550.4	543.6	551.1	534.6	538.7	530.4	541.5	540.8	551.1	559.3
47.5°	642.1	612.6	603.8	611.9	592.2	596.9	588.7	600.3	601.1	612.6	620.9
50°	712.6	681.8	670.1	677.7	659.3	662.6	654.4	668.8	668.1	683.9	690.0
52.5°	789.3	757.8	748.8	752.3	730.4	734.5	727.6	745.4	741.4	750.9	763.3
55°	874.2	837.8	827.6	837.8	811.9	817.4	808.5	824.8	818.1	830.3	833.8
57.5°	961.1	925.5	917.3	924.9	900.2	904.3	892.6	906.3	900.9	909.1	914.6
60°	1053.5	1021.4	1013.1	1021.4	997.4	998.1	978.3	992.5	984.5	994.6	992.5
62.5°	1141.8	1114.4	1112.4	1124.0	1094.0	1090.5	1066.6	1076.8	1065.2	1071.9	1063.9
65°	1217.1	1201.4	1204.1	1213.7	1187.0	1178.8	1151.4	1156.8	1139.8	1139.8	1129.5
67.5°	1315.7	1298.6	1298.6	1306.9	1273.3	1252.1	1214.4	1209.6	1181.5	1176.0	1152.1
70°	1397.9	1402.6	1397.1	1404.1	1364.3	1321.1	1271.2	1247.3	1210.3	1192.5	1164.5
71°	1368.4	1395.8	1405.4	1410.9	1378.0	1334.9	1282.9	1252.1	1216.5	1192.5	1162.4
72.5°	1234.9	1301.4	1338.9	1338.9	1343.1	1315.7	1265.7	1232.1	1191.8	1160.3	1132.2
75°	865.2	973.4	1022.0	1016.5	1052.2	1064.5	1068.5	1054.3	1031.6	986.4	966.6
77.5°	385.5	507.9	581.1	581.8	620.2	653.8	680.5	708.5	698.3	676.3	675.0
80°	87.7	158.8	203.3	205.4	240.3	271.1	289.5	317.6	321.1	289.5	271.7
82.5°	37.7	44.5	50.7	49.9	61.6	73.9	87.7	95.1	91.8	76.0	71.9
85°	15.7	20.5	21.9	20.5	25.3	28.0	32.9	33.6	39.1	34.9	37.0
87.5°	0.0	0.7	0.7	0.0	1.3	0.0	1.3	0.7	3.4	1.3	4.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	11.8	12.8	11.6	11.3	9.8	8.4	6.8	6.4	5.9	5.4	4.9
100°	30.9	31.4	31.0	30.9	30.5	29.9	29.5	28.7	27.9	27.3	26.5
102.5°	49.9	50.0	49.9	49.9	49.6	49.2	49.0	48.6	48.1	47.6	47.1
105°	69.5	69.7	69.7	69.7	69.7	69.7	69.7	69.2	68.7	68.2	67.7
107.5°	90.8	91.3	91.1	91.1	90.8	90.5	90.3	90.1	89.8	89.5	89.3



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CANDELA DISTRIBUTION (continued):

	52.5°	55°	57°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
110°	111.4	111.9	111.9	111.9	111.9	111.9	111.9	111.7	111.4	111.1	110.9
112.5°	132.9	133.5	133.5	133.5	133.5	133.5	133.5	133.3	132.9	132.7	132.5
115°	154.6	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0
117.5°	176.4	176.7	176.9	176.9	177.1	177.4	177.7	177.4	177.1	176.9	176.7
120°	199.7	200.2	200.2	200.2	200.2	200.2	200.2	200.2	200.2	200.2	200.2
122.5°	223.6	223.8	223.8	223.8	223.8	223.8	223.8	223.9	224.3	224.6	224.8
125°	248.1	248.3	248.5	248.5	248.8	249.1	249.3	249.3	249.3	249.3	249.3
127.5°	272.4	272.8	272.6	272.6	272.4	272.1	271.8	272.1	272.4	272.6	272.8
130°	294.9	295.5	295.5	295.5	295.5	295.5	295.5	295.6	295.9	296.2	296.4
132.5°	318.2	319.0	319.0	319.0	319.0	319.0	319.0	319.2	319.4	319.8	320.0
135°	340.7	341.5	341.5	341.5	341.5	341.5	341.5	341.7	342.1	342.3	342.5
137.5°	361.7	362.2	362.2	362.2	362.2	362.2	362.2	362.4	362.6	362.9	363.2
140°	382.6	382.8	382.8	382.8	382.8	382.8	382.8	383.3	383.8	384.3	384.7
142.5°	403.9	404.3	404.3	404.3	404.3	404.3	404.3	404.6	404.9	405.1	405.3
145°	425.4	426.0	425.8	425.8	425.4	425.2	425.0	425.2	425.4	425.8	426.0
147.5°	445.4	445.6	445.2	445.1	444.6	444.1	443.7	443.9	444.1	444.4	444.6
150°	462.1	462.3	461.9	461.8	461.3	460.8	460.3	460.3	460.3	460.3	460.3
152.5°	477.8	478.0	477.8	477.8	477.4	477.2	477.0	477.0	477.0	477.0	477.0
155°	494.4	494.7	494.4	494.4	494.2	493.9	493.7	493.9	494.2	494.4	494.7
157.5°	509.4	509.4	509.0	508.9	508.4	507.9	507.5	507.6	507.9	508.2	508.4
160°	522.2	522.2	521.7	521.6	521.2	520.7	520.2	520.2	520.2	520.2	520.2
162.5°	531.8	532.0	531.5	531.4	531.0	530.4	530.0	529.6	529.0	528.6	528.0
165°	542.6	542.8	542.1	541.9	541.3	540.6	539.8	539.3	538.8	538.4	537.8
167.5°	549.7	549.7	549.2	549.1	548.7	548.1	547.7	547.9	548.1	548.4	548.7
170°	554.7	554.5	554.3	554.3	554.1	553.7	553.5	554.1	554.5	555.1	555.5
172.5°	558.3	558.5	558.0	557.9	557.5	556.9	556.5	556.7	556.9	557.3	557.5
175°	562.2	562.4	561.8	561.6	560.9	560.3	559.5	558.9	558.5	557.9	557.5
177.5°	566.3	566.3	565.8	565.6	564.9	564.1	563.3	563.3	563.3	563.3	563.3
180°	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3



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CANDELA DISTRIBUTION (continued):

	77.5°	80°	82.5°	85°	87.5°	90°	95°	100°	102.5°	105°	107.5°
0°	267.7	267.7	267.7	267.7	267.7	267.7	267.7	267.7	267.7	267.7	267.7
2.5°	262.8	266.3	262.8	266.3	264.2	266.3	265.6	266.3	262.8	266.3	262.1
5°	258.0	263.6	258.7	262.8	258.7	263.6	263.6	263.6	258.7	264.2	259.4
7.5°	254.0	260.1	254.0	260.1	256.1	260.8	260.8	262.8	257.4	263.6	256.6
10°	249.9	257.4	249.9	258.7	252.0	259.4	260.1	261.5	254.0	262.1	255.4
12.5°	247.8	257.4	248.5	257.4	249.2	259.4	260.1	261.5	253.3	263.6	254.7
15°	247.8	258.0	248.5	258.0	249.2	259.4	260.8	262.1	253.3	264.2	254.7
17.5°	247.8	258.0	249.9	258.7	250.5	260.1	261.5	262.8	254.7	264.2	256.1
20°	249.9	259.4	251.3	260.8	252.6	262.1	262.8	264.9	256.1	264.9	257.4
22.5°	254.7	262.8	256.1	264.9	258.7	266.3	267.0	269.0	262.1	269.7	263.6
25°	262.8	271.7	266.3	273.2	269.7	275.9	277.3	277.3	274.5	279.4	277.3
27.5°	280.0	286.8	282.8	288.9	286.8	291.6	291.6	292.3	294.4	295.7	297.8
30°	301.9	306.7	305.3	308.7	309.5	312.1	312.1	316.2	324.5	316.2	315.6
32.5°	331.4	334.1	334.8	336.1	338.8	340.9	343.6	348.5	355.3	336.1	329.9
35°	367.6	368.2	370.3	372.3	377.2	378.5	387.5	384.0	384.0	353.9	340.9
37.5°	407.3	407.3	412.8	412.8	424.4	425.1	434.0	416.3	405.9	366.9	347.7
40°	457.2	456.6	462.8	464.2	479.9	480.5	479.2	440.2	418.3	370.3	344.3
42.5°	510.0	512.0	520.3	523.0	534.6	538.7	521.6	456.6	423.7	368.2	332.7
45°	567.5	571.6	581.8	589.4	601.8	596.9	555.8	464.2	417.6	356.0	310.2
47.5°	630.5	634.7	642.7	657.2	662.6	657.2	583.9	466.8	408.0	336.9	277.3
50°	694.1	700.9	712.6	733.2	735.9	722.1	618.1	477.1	400.5	316.9	239.6
52.5°	766.1	772.8	786.6	820.8	814.0	785.8	658.5	496.3	402.5	304.6	207.4
55°	842.0	851.5	878.3	911.8	896.8	852.9	703.0	524.4	410.7	291.6	171.8
57.5°	922.1	932.4	967.3	1007.0	977.5	918.7	748.2	546.3	414.8	264.9	132.8
60°	1001.5	1015.8	1061.1	1094.0	1048.1	974.8	788.6	560.6	403.9	214.2	102.7
62.5°	1074.0	1097.3	1148.0	1165.8	1092.6	1010.4	810.5	550.4	359.4	148.0	82.8
65°	1125.4	1155.5	1188.4	1186.3	1084.3	998.7	794.1	503.1	267.7	97.8	70.4
67.5°	1147.3	1175.3	1182.9	1148.0	1025.4	947.4	735.3	405.2	154.0	73.2	61.6
70°	1155.5	1179.5	1137.1	1052.8	910.4	821.5	601.1	258.0	84.2	59.6	53.4
71°	1152.1	1163.8	1083.0	984.5	837.2	744.1	527.0	196.5	71.9	55.4	50.7
72.5°	1105.5	1089.1	964.5	855.0	709.9	615.4	410.1	123.9	58.9	49.9	47.3
75°	903.7	829.7	709.9	606.5	483.3	386.8	222.5	63.7	47.3	43.1	41.1
77.5°	590.7	526.5	427.9	347.7	264.2	200.6	91.1	43.7	37.7	36.3	35.7
80°	210.8	169.2	128.0	112.3	84.9	69.8	44.5	33.6	29.5	30.1	29.5
82.5°	59.6	54.8	47.3	43.7	38.4	37.7	28.7	25.3	23.3	24.6	24.0
85°	29.5	25.3	18.4	17.8	13.7	15.7	14.4	17.1	15.0	15.7	14.4
87.5°	2.1	2.8	0.7	2.1	0.0	2.1	2.8	3.4	0.7	2.8	2.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	4.7	4.4	4.1	4.0	4.0	4.0	4.0	4.4	4.7	4.9	5.4
100°	26.3	26.1	25.7	25.5	25.1	24.5	25.5	26.1	26.3	26.5	27.3
102.5°	47.3	47.6	47.9	48.1	47.6	47.1	48.1	47.6	47.3	47.1	47.6
105°	68.2	68.7	69.2	69.7	68.7	67.7	69.7	68.7	68.2	67.7	68.2
107.5°	89.5	89.8	90.1	90.3	89.8	89.3	90.3	89.8	89.5	89.3	89.5



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	77.5°	80°	82.5°	85°	87.5°	90°	95°	100°	102.5°	105°	107.5°	
110°	111.1	111.4	111.7	111.9	111.4	110.9	111.9	111.4	111.1	110.9	111.1	0°
112.5°	132.9	133.5	133.9	134.5	133.5	132.5	134.5	133.5	132.9	132.5	132.7	2.5°
115°	155.6	156.0	156.6	157.0	156.6	156.0	157.0	156.0	155.6	155.0	155.0	5°
117.5°	177.1	177.7	178.1	178.7	177.7	176.7	178.7	177.7	177.1	176.7	176.9	7.5°
120°	200.7	201.2	201.7	202.2	201.2	200.2	202.2	201.2	200.7	200.2	200.2	10°
122.5°	225.7	226.7	227.7	228.7	228.2	227.7	228.7	226.7	225.7	224.8	224.6	12.5°
125°	250.1	250.8	251.4	252.2	251.7	251.3	252.2	250.8	250.1	249.3	249.3	15°
127.5°	273.6	274.3	275.0	275.8	274.3	272.8	275.8	274.3	273.6	272.8	272.6	17.5°
130°	297.2	297.9	298.6	299.3	298.3	297.4	299.3	297.9	297.2	296.4	296.2	20°
132.5°	320.8	321.4	322.1	322.9	322.0	321.0	322.9	321.4	320.8	320.0	319.8	22.5°
135°	343.1	343.5	344.1	344.5	344.1	343.5	344.5	343.5	343.1	342.5	342.3	25°
137.5°	364.2	365.1	366.1	367.0	366.1	365.1	367.0	365.1	364.2	363.2	362.9	27.5°
140°	385.7	386.7	387.7	388.7	387.7	386.7	388.7	386.7	385.7	384.7	384.3	30°
142.5°	406.1	406.8	407.5	408.3	407.8	407.3	408.3	406.8	406.1	405.3	405.1	32.5°
145°	426.8	427.4	428.1	428.9	428.0	427.0	428.9	427.4	426.8	426.0	425.8	35°
147.5°	445.4	446.1	446.7	447.5	446.1	444.6	447.5	446.1	445.4	444.6	444.4	37.5°
150°	461.3	462.3	463.3	464.2	462.8	461.3	464.2	462.3	461.3	460.3	460.3	40°
152.5°	477.8	478.4	479.2	480.0	478.4	477.0	480.0	478.4	477.8	477.0	477.0	42.5°
155°	495.4	496.1	496.9	497.6	496.7	495.7	497.6	496.1	495.4	494.7	494.4	45°
157.5°	509.6	510.9	512.1	513.3	511.9	510.3	513.3	510.9	509.6	508.4	508.2	47.5°
160°	520.9	521.6	522.4	523.2	522.2	521.2	523.2	521.6	520.9	520.2	520.2	50°
162.5°	528.6	529.0	529.6	530.0	528.6	527.0	530.0	529.0	528.6	528.0	528.6	52.5°
165°	538.4	538.8	539.3	539.8	538.8	537.8	539.8	538.8	538.4	537.8	538.4	55°
167.5°	549.7	550.6	551.6	552.5	551.6	550.6	552.5	550.6	549.7	548.7	548.4	57.5°
170°	556.7	557.9	559.3	560.5	559.5	558.5	560.5	557.9	556.7	555.5	555.1	60°
172.5°	558.3	558.9	559.6	560.5	558.9	557.5	560.5	558.9	558.3	557.5	557.3	62.5°
175°	558.3	558.9	559.6	560.5	558.9	557.5	560.5	558.9	558.3	557.5	557.9	65°
177.5°	564.1	564.9	565.6	566.3	564.9	563.3	566.3	564.9	564.1	563.3	563.3	67.5°
180°	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	70°
												71°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°



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DISTRIBUTION (continued):

CANDELA DISTRIBUTION

110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	110°	110°
267.7	267.7	267.7	267.7	267.7	267.7	267.7	267.7	267.7	267.7	267.7	110°	111.4
267.0	264.2	267.7	264.2	267.7	265.6	267.7	265.6	267.7	269.0	269.0	112.5°	132.9
265.6	260.8	267.0	263.6	267.7	264.2	267.0	264.9	268.3	269.7	271.1	115°	155.0
264.9	260.1	266.3	261.5	267.7	262.8	267.0	264.2	268.3	269.7	272.5	117.5°	177.1
264.2	258.0	266.3	259.4	267.0	262.1	267.0	262.8	267.7	269.0	269.7	120°	200.2
264.2	257.4	266.3	258.7	267.0	260.1	266.3	260.1	267.0	266.3	264.2	122.5°	224.3
264.9	256.1	266.3	257.4	266.3	258.0	265.6	257.4	264.2	262.1	260.8	125°	249.3
264.9	256.1	265.6	256.6	264.9	257.4	263.6	256.1	262.1	261.5	259.4	127.5°	272.4
266.3	257.4	265.6	259.4	265.6	258.0	262.8	256.1	260.8	256.6	248.5	130°	295.9
270.4	264.2	270.4	264.2	267.0	260.1	262.1	254.0	253.3	246.4	233.4	132.5°	319.4
280.0	277.3	275.9	268.3	266.3	257.4	254.7	245.1	241.6	231.3	213.5	135°	342.1
292.3	286.1	277.9	269.0	260.1	249.2	241.6	234.1	226.6	213.5	191.0	137.5°	362.6
300.6	291.6	274.5	262.1	245.8	236.8	223.9	215.6	204.6	188.3	166.4	140°	383.8
306.1	292.3	266.3	252.0	230.0	218.4	201.3	192.3	176.6	160.9	145.2	142.5°	404.9
307.4	289.5	255.4	239.6	210.8	197.9	175.3	165.6	150.6	139.7	133.5	145°	425.4
301.9	280.0	238.2	217.7	186.2	171.1	149.8	143.1	134.2	130.1	127.3	147.5°	444.1
290.9	261.5	211.6	187.6	155.4	143.8	132.8	132.8	128.0	125.9	121.2	150°	460.3
271.1	234.1	177.2	154.0	132.1	130.1	123.9	126.6	123.2	121.8	115.1	152.5°	477.0
240.3	195.1	143.1	129.4	119.1	120.6	116.4	119.1	117.0	116.4	108.2	155°	494.2
200.6	155.4	120.6	115.7	108.9	110.9	107.4	110.9	108.9	109.5	103.3	157.5°	507.9
160.2	125.9	106.8	104.0	99.3	100.6	98.5	102.0	101.3	104.0	100.6	160°	520.2
128.0	107.4	95.1	93.2	90.4	91.1	90.4	93.9	94.5	99.9	99.9	162.5°	529.0
106.1	92.4	85.6	84.9	82.1	82.8	83.5	87.0	89.7	96.5	99.9	165°	538.8
91.1	82.8	78.1	77.3	76.0	76.6	78.1	82.1	84.9	93.9	101.3	167.5°	548.1
80.1	75.3	71.9	71.9	70.4	71.9	73.2	77.3	80.8	91.1	98.5	170°	554.5
71.9	68.5	66.5	67.1	66.5	67.7	69.1	73.2	77.3	87.0	94.5	172.5°	556.9
64.4	62.3	60.9	61.6	61.6	63.7	65.0	69.1	72.5	81.5	91.1	175°	558.5
58.2	56.9	56.1	56.9	57.5	59.6	61.6	64.4	67.1	75.3	86.2	177.5°	563.3
53.4	52.0	52.0	52.0	52.7	54.8	57.5	58.9	61.6	70.4	80.8	180°	565.3
50.7	49.9	49.9	49.9	50.7	52.7	55.4	56.9	59.6	68.5	78.1		
47.3	47.3	47.9	47.3	48.6	49.2	52.0	53.4	56.9	65.8	74.6		
41.7	41.7	42.4	42.4	43.7	43.7	45.8	47.3	51.3	58.9	67.1		
37.0	37.0	38.4	37.7	37.7	36.3	39.1	40.4	43.7	51.3	59.6		
31.5	30.8	32.2	30.1	29.5	28.0	30.1	32.2	37.7	42.4	43.7		
24.6	22.5	23.3	21.2	21.2	19.9	21.9	22.5	26.1	30.8	33.6		
15.0	12.4	13.7	11.7	13.0	11.7	12.4	13.0	15.7	19.1	18.4		
3.4	2.1	2.8	0.7	2.1	0.0	2.1	0.7	2.1	0.7	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
5.9	6.4	6.8	8.4	9.8	11.3	12.8	11.8	10.8	8.8	4.0		
27.9	28.7	29.5	29.9	30.5	30.9	31.4	30.9	30.5	29.5	21.6		
48.1	48.6	49.0	49.2	49.6	49.9	50.0	49.9	49.6	49.0	44.2		
68.7	69.2	69.7	69.7	69.7	69.7	69.7	69.5	69.2	68.7	64.8		
89.8	90.1	90.3	90.5	90.8	91.1	91.3	90.8	90.3	89.3	86.3		

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TION (continued):

CANDELA DISTRIBUTION (con

112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°		155°	165°
111.7	111.9	111.9	111.9	111.9	111.9	111.4	110.9	110.0	108.0	0°	267.7	267.7
133.3	133.5	133.5	133.5	133.5	133.5	132.9	132.5	131.5	129.5	2.5°	270.4	269.7
155.0	155.0	155.0	155.0	155.0	155.0	154.6	154.1	153.1	151.2	5°	273.8	273.8
177.4	177.7	177.4	177.1	176.9	176.7	176.4	176.2	175.7	173.7	7.5°	274.5	275.9
200.2	200.2	200.2	200.2	200.2	200.2	199.7	199.2	198.3	197.3	10°	269.7	268.3
223.9	223.8	223.8	223.8	223.8	223.8	223.6	223.3	222.8	221.8	12.5°	262.1	260.8
249.3	249.3	249.1	248.8	248.5	248.3	248.1	247.8	247.3	246.3	15°	261.5	260.8
272.1	271.8	272.1	272.4	272.6	272.8	272.4	271.8	270.9	269.0	17.5°	256.6	253.3
295.6	295.5	295.5	295.5	295.5	295.5	294.9	294.5	293.5	292.5	20°	243.0	236.8
319.2	319.0	319.0	319.0	319.0	319.0	318.2	317.6	316.0	315.0	22.5°	223.9	215.0
341.7	341.5	341.5	341.5	341.5	341.5	340.7	340.1	338.6	338.6	25°	200.6	188.3
362.4	362.2	362.2	362.2	362.2	362.2	361.7	361.2	360.2	360.2	27.5°	175.3	163.0
383.3	382.8	382.8	382.8	382.8	382.8	382.6	382.3	381.8	380.8	30°	155.4	145.9
404.6	404.3	404.3	404.3	404.3	404.3	403.9	403.4	402.4	402.4	32.5°	141.0	135.6
425.2	425.0	425.2	425.4	425.8	426.0	425.4	425.0	424.0	423.0	35°	129.4	125.9
443.9	443.7	444.1	444.6	445.1	445.6	445.4	445.1	444.6	443.7	37.5°	121.8	116.4
460.3	460.3	460.8	461.3	461.8	462.3	462.1	461.8	461.3	460.3	40°	114.4	107.4
477.0	477.0	477.2	477.4	477.8	478.0	477.8	477.4	477.0	476.0	42.5°	107.4	100.6
493.9	493.7	493.9	494.2	494.4	494.7	494.4	494.2	493.7	493.7	45°	100.6	95.8
507.6	507.5	507.9	508.4	508.9	509.4	509.4	509.4	509.4	509.4	47.5°	97.2	93.2
520.2	520.2	520.7	521.2	521.6	522.2	522.2	522.2	522.2	522.2	50°	95.8	91.8
529.6	530.0	530.4	531.0	531.4	532.0	531.8	531.4	531.0	531.0	52.5°	97.2	93.9
539.3	539.8	540.6	541.3	541.9	542.8	542.6	542.3	541.8	541.8	55°	99.9	97.8
547.9	547.7	548.1	548.7	549.1	549.7	549.7	549.7	549.7	550.6	57.5°	97.2	93.9
554.1	553.5	553.7	554.1	554.3	554.5	554.7	555.1	555.5	556.5	60°	91.1	85.6
556.7	556.5	556.9	557.5	557.9	558.5	558.3	557.9	557.5	558.5	62.5°	87.0	81.5
558.9	559.5	560.3	560.9	561.6	562.4	562.2	561.9	561.4	561.4	65°	83.5	79.4
563.3	563.3	564.1	564.9	565.6	566.3	566.3	566.3	566.3	567.3	67.5°	80.1	76.0
565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	70°	76.0	71.9
										71°	73.9	69.1
										72.5°	70.4	65.0
										75°	63.7	58.2
										77.5°	52.7	46.5
										80°	40.4	36.3
										82.5°	30.1	26.7
										85°	15.7	12.4
										87.5°	0.0	0.0
										90°	0.0	0.0
										92.5°	0.0	0.0
										95°	1.0	1.0
										97.5°	3.0	2.0
										100°	13.7	9.8
										102.5°	37.3	31.4
										105°	59.8	55.0
										107.5°	82.5	78.5



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tinued):

175°	180°
267.7	267.7
270.4	269.7
274.5	275.2
277.3	276.6
269.7	268.3
262.1	262.1
261.5	261.5
252.0	251.3
235.4	233.4
212.2	210.1
183.4	180.6
158.1	158.1
141.0	141.0
132.1	132.8
123.9	124.5
111.6	111.6
101.3	101.3
96.5	95.8
92.4	91.8
89.7	89.0
87.0	87.0
84.9	84.9
84.9	83.5
85.6	83.5
84.2	82.8
84.2	83.5
85.6	84.2
85.6	82.8
78.1	73.2
73.9	69.8
66.5	63.7
56.9	56.1
44.5	43.7
36.3	34.2
26.1	22.5
10.3	10.3
0.0	0.0
0.0	0.0
0.0	0.0
1.0	1.0
2.0	2.0
7.8	7.8
27.5	27.5
53.0	53.0
75.5	76.5

CANDELA DISTRIBUTION (continued):

	155°	165°	175°
110°	104.0	101.1	100.1
112.5°	126.6	123.7	121.7
115°	148.2	146.2	144.3
117.5°	170.8	168.8	166.8
120°	194.3	192.3	191.4
122.5°	218.8	216.9	216.0
125°	243.4	242.5	241.5
127.5°	267.0	265.0	264.0
130°	288.5	287.5	286.6
132.5°	312.1	311.2	308.2
135°	334.7	332.7	330.8
137.5°	357.3	356.3	353.3
140°	378.8	377.8	375.9
142.5°	399.5	400.5	398.5
145°	420.0	420.0	418.1
147.5°	439.7	438.7	435.8
150°	456.4	455.4	453.5
152.5°	473.0	474.0	471.1
155°	491.7	492.7	490.7
157.5°	506.5	507.5	505.5
160°	519.2	519.2	517.2
162.5°	528.0	529.0	526.0
165°	537.8	538.8	536.8
167.5°	547.7	548.7	545.7
170°	554.5	555.5	552.5
172.5°	556.5	558.5	555.5
175°	558.5	559.5	558.5
177.5°	563.3	564.3	562.4
180°	565.3	565.3	565.3



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180°
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99.2
121.7
143.3
165.8
189.5
215.0
239.5
262.0
284.7
307.2
329.8
352.3
375.0
396.5
417.2
435.8
452.5
470.2
489.8
503.5
515.3
525.1
535.9
544.7
551.6
554.5
556.5
561.4
565.3

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