

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: NEO-RAY

Report Number: P331947-927

Luminaire Tested: **S123DIP-S560D1195U927-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331947-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIP-S560D1195U927-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1195 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5139.9 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Indirect

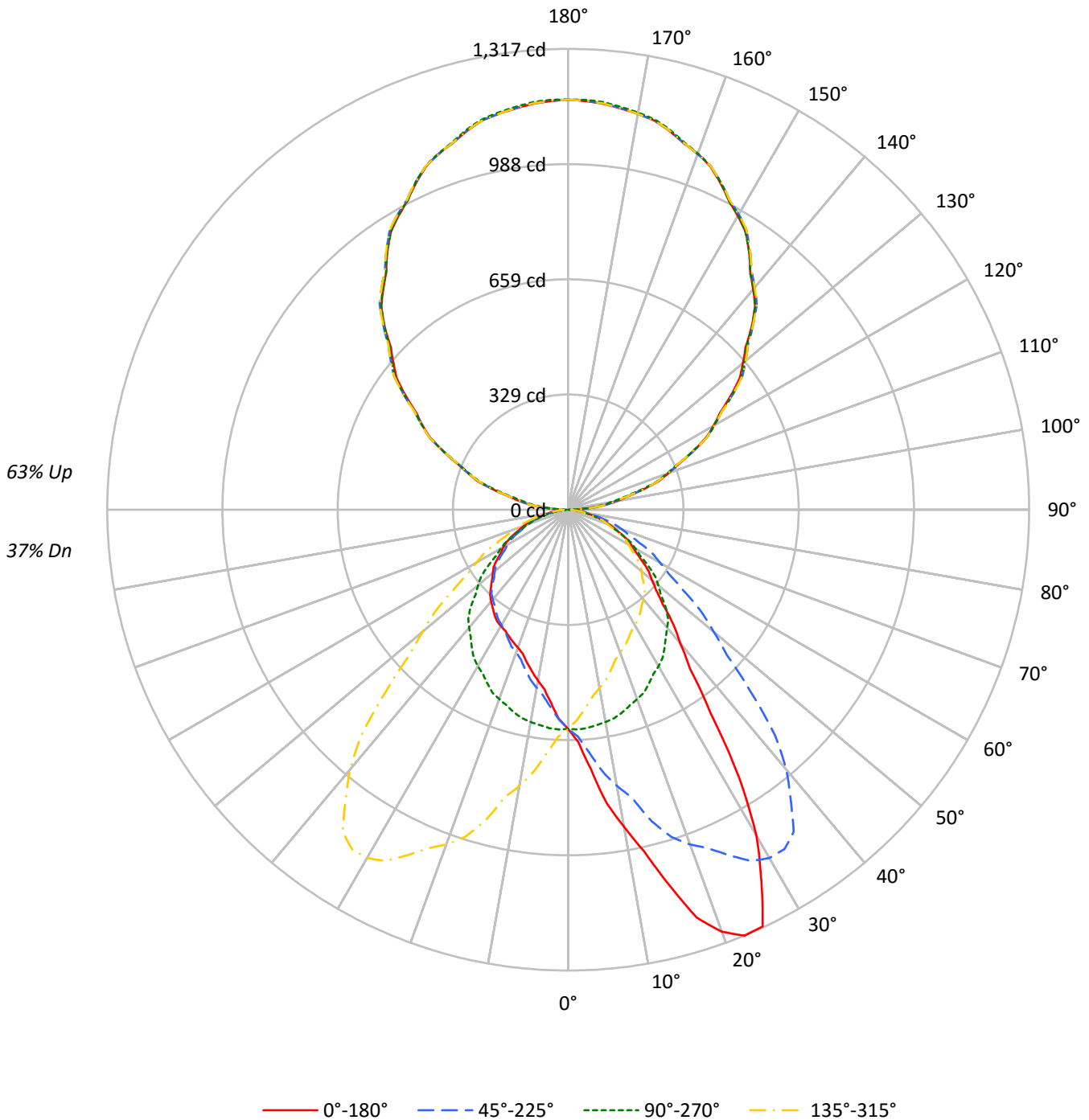
Input Watts (W): 49.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37
1	95	91	87	84	86	83	79	77	67	65	63	52	51	50	39	38	38	31
2	87	80	74	69	78	72	67	63	59	55	52	46	44	42	35	33	32	27
3	79	70	63	57	71	64	58	53	52	48	44	41	38	36	31	29	27	23
4	72	62	54	49	65	57	50	45	46	41	38	37	33	30	28	25	24	20
5	66	55	47	42	60	50	44	38	41	36	32	33	29	26	25	23	21	17
6	61	49	42	36	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	45	37	31	51	41	34	29	34	29	25	27	23	20	21	18	16	13
8	52	40	33	28	47	37	30	26	31	26	22	25	21	18	19	16	14	12
9	49	37	30	25	44	34	27	23	28	23	20	23	19	16	18	15	13	11
10	45	34	27	22	41	31	25	20	26	21	18	21	17	15	16	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6740	6740	6740	6740
5°	8038	6769	5999	6769
10°	10061	6735	5418	6735
15°	12340	6681	5045	6681
20°	14701	6596	4803	6596
25°	15610	6494	4749	6494
30°	13380	6418	4774	6418
35°	9305	6311	4824	6311
40°	7009	6185	4808	6185
45°	5820	5999	4748	5999
50°	5213	5620	4706	5620
55°	4874	5210	4647	5210
60°	4573	4781	4598	4781
65°	4297	4358	4452	4358
70°	4028	3877	4239	3877
75°	3606	3394	3889	3394
80°	3155	2783	3347	2783
85°	2470	2025	2248	2025



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.7	1.2
10°-20°	197.8	3.8
20°-30°	332.0	6.5
30°-40°	375.9	7.3
40°-50°	337.1	6.6
50°-60°	272.0	5.3
60°-70°	189.6	3.7
70°-80°	99.6	1.9
80°-90°	27.8	0.5
90°-100°	76.3	1.5
100°-110°	228.5	4.4
110°-120°	388.6	7.6
120°-130°	511.1	9.9
130°-140°	574.5	11.2
140°-150°	564.7	11.0
150°-160°	475.4	9.2
160°-170°	316.5	6.2
170°-180°	110.8	2.2
0°-30°	591.5	11.5
0°-40°	967.4	18.8
0°-60°	1576.5	30.7
0°-90°	1893.5	36.8
90°-120°	693.4	13.5
90°-150°	2343.7	45.6
90°-180°	3246.0	63.2
0°-180°	5139.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	626	626	626	626	626	
5°	744	626	555	626	744	77
15°	1107	600	453	600	1107	320
25°	1314	547	400	547	1314	576
35°	708	480	367	480	708	460
45°	382	394	312	394	382	303
55°	260	278	248	278	260	233
65°	169	171	175	171	169	168
75°	87	82	94	82	87	93
85°	20	16	18	16	20	24
90°	28	1	28	1	28	14
95°	72	54	72	54	72	74
105°	219	207	219	207	219	232
115°	392	391	392	391	392	388
125°	566	572	566	572	566	506
135°	742	743	742	743	742	570
145°	901	901	901	901	901	562
155°	1030	1032	1030	1032	1030	474
165°	1120	1124	1120	1124	1120	316
175°	1164	1169	1164	1169	1164	111
180°	1172	1172	1172	1172	1172	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2
2.5°	664.6	664.1	662.9	663.8	661.9	659.3	659.0	656.6	649.5	649.0	647.1
5°	743.9	741.5	741.2	740.9	736.7	730.9	719.9	719.1	704.5	697.2	688.4
7.5°	846.8	848.0	843.6	839.7	826.7	818.2	806.4	791.5	773.6	755.4	743.3
10°	920.5	930.5	918.1	909.6	901.7	886.8	869.6	848.0	826.5	801.3	782.2
12.5°	999.7	1004.6	1002.1	994.0	981.8	959.2	928.5	904.8	884.9	843.0	826.1
15°	1107.4	1125.9	1114.1	1086.8	1087.4	1065.9	1025.8	981.8	958.5	921.7	871.6
17.5°	1222.3	1224.6	1219.5	1196.7	1181.5	1152.0	1115.0	1072.9	1025.5	981.1	928.0
20°	1283.4	1281.6	1271.0	1259.1	1233.0	1210.0	1169.6	1122.6	1061.9	1018.2	960.3
22.5°	1317.4	1314.3	1309.3	1299.4	1277.7	1252.9	1216.7	1165.3	1107.6	1047.3	980.4
25°	1314.3	1318.3	1318.9	1316.1	1308.6	1293.7	1265.2	1224.2	1166.6	1089.3	1019.5
27.5°	1195.4	1200.9	1217.2	1231.6	1247.7	1264.0	1261.9	1241.5	1198.9	1132.0	1046.7
30°	1076.5	1064.3	1094.4	1132.3	1158.1	1203.6	1229.1	1230.6	1206.7	1149.3	1066.1
32.5°	911.4	924.8	938.0	984.7	1041.1	1092.2	1142.9	1183.8	1188.4	1150.2	1077.5
35°	708.1	724.8	749.1	773.4	834.1	886.2	975.4	1053.1	1115.0	1123.2	1078.6
37.5°	570.6	578.9	594.2	618.5	658.2	720.2	789.2	887.3	977.0	1043.7	1046.6
40°	498.8	501.2	518.5	537.0	569.2	620.1	682.4	769.1	876.5	969.7	1008.5
42.5°	444.9	450.3	457.6	475.4	501.0	539.3	597.1	668.9	767.3	874.5	950.5
45°	382.3	388.3	392.9	404.7	422.9	448.7	489.1	554.6	629.5	740.3	842.6
47.5°	340.9	341.4	344.8	353.7	366.1	385.5	414.0	456.1	524.9	614.7	719.7
50°	311.3	316.2	317.3	324.3	334.1	348.3	372.0	407.7	464.2	543.1	639.6
52.5°	290.4	291.8	295.2	300.3	308.8	319.9	340.4	368.4	412.7	480.0	568.7
55°	259.7	259.7	263.1	267.0	271.9	281.9	295.5	316.2	349.8	402.0	475.5
57.5°	231.3	232.8	235.2	236.4	240.5	247.2	258.6	274.3	299.4	339.5	397.9
60°	212.4	215.1	214.8	217.2	220.9	226.0	235.8	248.5	270.9	303.1	352.3
62.5°	195.9	195.7	195.7	198.5	202.2	207.1	213.4	224.4	243.5	272.0	313.9
65°	168.7	168.1	170.2	172.1	173.3	176.9	181.7	191.5	204.2	225.5	257.9
67.5°	144.6	142.8	143.9	144.6	146.6	149.5	154.0	160.0	170.2	187.2	211.7
70°	128.0	126.5	126.2	126.8	128.7	130.8	134.1	139.9	149.2	163.0	180.9
72.5°	111.1	110.0	110.0	111.3	112.2	113.5	115.9	121.2	128.7	138.9	155.6
75°	86.7	86.7	86.7	87.1	88.0	89.2	91.0	93.7	99.5	106.8	118.0
77.5°	65.0	65.0	64.6	64.6	65.9	66.5	66.9	69.4	72.6	77.6	85.7
80°	50.9	49.4	50.1	50.9	51.6	51.9	52.8	53.4	56.2	58.9	64.6
82.5°	37.9	36.6	36.7	38.1	38.3	38.5	39.5	40.3	41.4	43.8	46.9
85°	20.0	20.0	20.4	20.4	20.6	20.4	21.2	21.5	21.5	23.1	24.9
87.5°	12.8	12.2	12.4	12.6	12.2	12.4	12.4	12.5	12.6	12.7	12.4
90°	27.6	27.2	26.8	26.4	26.0	25.3	24.6	23.8	22.9	22.1	19.4
92.5°	37.2	37.4	37.7	37.9	38.2	37.9	37.3	36.7	36.0	35.3	33.8
95°	71.8	71.8	71.8	71.8	71.8	71.4	70.6	69.7	68.9	68.1	66.5
97.5°	110.4	110.5	110.6	110.7	110.7	110.4	109.4	108.4	107.5	106.5	105.4
100°	139.9	139.5	139.1	138.7	138.2	137.8	137.1	136.5	135.9	135.3	134.3
102.5°	170.1	170.2	170.2	170.3	170.4	170.2	169.5	168.9	168.3	167.7	166.4
105°	219.0	218.6	218.2	217.9	217.5	217.2	217.2	217.2	217.2	217.2	215.4
107.5°	270.1	270.3	270.5	270.8	271.0	270.8	270.2	269.5	268.9	268.2	267.4
110°	304.7	305.1	305.5	305.9	306.3	306.1	305.3	304.4	303.6	302.9	302.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	341.5	341.6	341.7	341.7	341.8	341.4	340.4	339.4	338.4	337.4	337.3
115°	392.1	392.3	392.5	392.7	392.9	392.9	392.7	392.5	392.3	392.1	392.5
117.5°	443.5	444.0	444.6	445.2	445.8	446.1	446.1	446.2	446.2	446.2	446.8
120°	479.5	480.0	480.4	480.8	481.2	481.5	481.7	481.9	482.1	482.3	483.3
122.5°	514.1	514.7	515.3	515.9	516.4	517.0	517.5	518.1	518.6	519.1	519.7
125°	566.1	566.9	567.7	568.5	569.3	570.1	571.0	571.8	572.6	573.5	573.9
127.5°	617.8	618.7	619.6	620.6	621.5	622.6	623.8	624.9	626.1	627.2	627.6
130°	651.6	653.1	654.5	655.9	657.4	658.5	659.3	660.1	661.0	661.8	662.4
132.5°	687.0	688.1	689.2	690.3	691.4	692.4	693.5	694.4	695.4	696.4	696.8
135°	741.9	742.3	742.7	743.1	743.5	744.1	744.9	745.8	746.6	747.3	747.6
137.5°	790.3	791.1	791.9	792.6	793.4	794.2	795.0	795.9	796.8	797.6	797.1
140°	822.0	823.4	824.8	826.2	827.7	828.5	828.7	828.9	829.1	829.3	829.1
142.5°	854.4	855.5	856.5	857.6	858.7	859.4	859.6	859.8	860.0	860.2	859.8
145°	901.1	901.9	902.7	903.6	904.4	904.9	905.1	905.3	905.5	905.7	905.1
147.5°	942.7	943.9	945.2	946.3	947.6	948.2	948.2	948.2	948.2	948.2	947.6
150°	969.2	970.4	971.7	972.9	974.1	974.7	974.7	974.7	974.7	974.7	974.3
152.5°	995.0	996.0	997.1	998.1	999.3	999.6	999.3	998.9	998.6	998.3	998.1
155°	1029.9	1031.4	1032.8	1034.3	1035.7	1036.0	1035.1	1034.4	1033.6	1032.7	1032.5
157.5°	1061.8	1063.0	1064.1	1065.2	1066.4	1066.5	1065.6	1064.8	1064.0	1063.1	1063.0
160°	1082.4	1083.2	1084.0	1084.9	1085.7	1085.6	1084.6	1083.5	1082.5	1081.5	1081.5
162.5°	1097.9	1099.2	1100.5	1101.8	1103.1	1103.3	1102.2	1101.2	1100.2	1099.2	1099.0
165°	1120.1	1121.6	1123.0	1124.4	1125.8	1126.0	1124.7	1123.6	1122.3	1121.1	1121.1
167.5°	1139.1	1140.3	1141.6	1142.9	1144.1	1144.1	1142.9	1141.6	1140.3	1139.1	1138.9
170°	1148.7	1150.1	1151.5	1153.0	1154.4	1154.4	1153.0	1151.5	1150.1	1148.7	1148.7
172.5°	1156.0	1157.5	1158.9	1160.3	1161.8	1161.9	1160.6	1159.4	1158.1	1156.8	1156.8
175°	1164.3	1165.8	1167.2	1168.6	1170.1	1170.1	1168.9	1167.7	1166.5	1165.2	1165.2
177.5°	1168.8	1169.9	1171.0	1172.2	1173.3	1173.4	1172.4	1171.5	1170.4	1169.5	1169.5
180°	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2
2.5°	645.6	643.7	641.7	638.3	635.4	631.3	630.1	628.7	624.3	620.4	617.5
5°	685.1	677.8	667.2	657.4	649.6	639.0	632.9	626.5	617.4	609.3	602.5
7.5°	726.4	712.0	695.5	677.7	661.1	645.0	632.1	620.6	607.8	595.7	586.4
10°	759.1	738.5	715.4	690.5	669.3	648.6	631.4	616.2	599.8	585.6	573.7
12.5°	796.5	765.9	734.1	703.9	678.7	650.1	629.2	609.9	591.4	574.2	560.9
15°	840.7	801.9	764.3	722.7	684.4	648.6	623.8	599.5	578.0	560.4	543.4
17.5°	881.0	837.0	787.4	736.9	690.8	648.3	613.5	586.1	559.1	537.6	520.6
20°	903.8	853.7	797.6	745.1	694.2	646.8	608.6	575.8	546.8	523.9	504.9
22.5°	923.5	864.9	806.8	750.8	694.0	642.9	599.7	565.9	534.3	512.1	491.8
25°	943.9	873.8	815.6	749.7	686.3	633.5	584.9	546.8	515.2	489.1	468.2
27.5°	961.4	873.2	804.1	733.2	674.3	621.4	569.6	528.5	495.0	466.7	445.4
30°	973.0	874.4	792.2	722.1	662.7	608.0	557.6	516.4	481.2	452.3	432.4
32.5°	980.3	873.7	781.3	706.5	644.2	595.9	544.8	502.1	465.9	437.6	418.3
35°	984.5	868.3	762.5	674.5	614.4	567.4	524.6	480.3	442.4	416.0	394.1
37.5°	976.0	857.1	740.6	643.5	577.7	531.5	495.4	457.7	421.4	392.4	373.5
40°	962.7	849.9	723.6	621.7	552.5	507.9	477.3	440.2	404.4	376.8	359.3
42.5°	937.2	835.0	705.0	597.4	526.2	481.6	453.4	422.6	388.6	362.7	345.2
45°	875.0	802.8	676.9	561.0	487.6	441.5	416.6	394.1	363.5	338.3	323.1
47.5°	788.7	754.3	636.4	522.6	447.2	402.8	376.9	358.9	336.4	316.2	301.6
50°	728.8	714.5	609.0	496.4	420.2	376.8	352.0	335.6	319.5	299.1	285.8
52.5°	659.6	668.4	576.9	469.2	392.8	350.1	326.7	313.7	299.1	282.4	270.8
55°	562.2	594.1	521.6	423.6	352.0	311.3	289.1	277.6	269.1	256.7	246.7
57.5°	471.0	511.5	461.7	376.5	311.8	276.8	255.6	243.0	237.5	231.0	223.2
60°	416.8	456.9	419.0	345.0	284.9	251.5	232.7	222.1	216.7	212.1	205.4
62.5°	368.6	409.1	377.2	312.9	258.4	227.5	211.1	200.7	196.5	194.1	188.4
65°	302.2	337.1	315.8	263.1	220.5	193.3	178.4	171.1	167.2	166.3	162.6
67.5°	246.0	272.5	257.1	218.2	184.7	161.1	148.5	142.4	139.3	139.0	136.3
70°	209.1	233.9	222.1	186.9	158.0	139.6	128.7	123.2	121.4	121.0	119.5
72.5°	180.4	197.7	188.4	159.0	136.7	119.9	111.9	106.2	104.1	104.6	103.5
75°	133.5	146.6	141.1	120.7	102.8	91.9	85.2	81.6	79.8	80.7	79.5
77.5°	96.1	104.3	99.4	85.3	74.3	66.4	61.5	59.3	57.6	57.5	57.0
80°	72.5	77.4	74.6	66.1	57.0	50.4	46.4	44.9	44.0	43.7	43.4
82.5°	51.7	55.8	52.5	46.7	40.6	36.5	34.3	32.3	31.6	31.8	31.5
85°	26.1	27.6	26.4	22.7	20.4	18.5	17.3	16.4	15.8	16.1	15.4
87.5°	12.4	12.0	10.8	9.3	8.5	7.3	6.9	6.0	5.9	6.3	6.5
90°	16.8	14.1	11.5	9.1	7.1	5.0	2.9	1.0	2.9	5.0	7.1
92.5°	32.3	30.8	29.3	27.8	26.5	25.0	23.7	22.3	23.7	25.0	26.5
95°	64.8	63.2	61.6	60.0	58.6	57.2	55.8	54.3	55.8	57.2	58.6
97.5°	104.3	103.1	101.9	100.7	99.7	98.6	97.5	96.5	97.5	98.6	99.7
100°	133.2	132.2	131.2	130.1	128.9	127.6	126.4	125.2	126.4	127.6	128.9
102.5°	165.0	163.7	162.3	161.3	160.5	159.8	159.1	158.3	159.1	159.8	160.5
105°	213.6	211.7	209.8	208.7	208.3	207.9	207.5	207.1	207.5	207.9	208.3
107.5°	266.7	266.0	265.3	264.7	264.5	264.3	264.0	263.8	264.0	264.3	264.5
110°	302.0	301.6	301.2	300.8	300.4	299.9	299.5	299.1	299.5	299.9	300.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	337.2	337.2	337.1	336.9	336.7	336.4	336.2	336.0	336.2	336.4	336.7
115°	392.9	393.3	393.7	393.6	393.0	392.4	391.8	391.2	391.8	392.4	393.0
117.5°	447.3	447.8	448.4	448.4	448.0	447.6	447.2	446.8	447.2	447.6	448.0
120°	484.3	485.4	486.4	486.3	485.1	483.9	482.6	481.4	482.6	483.9	485.1
122.5°	520.1	520.7	521.3	521.1	520.1	519.3	518.3	517.5	518.3	519.3	520.1
125°	574.3	574.6	575.0	575.0	574.3	573.7	573.1	572.5	573.1	573.7	574.3
127.5°	628.0	628.5	629.0	628.5	627.2	625.9	624.6	623.3	624.6	625.9	627.2
130°	663.0	663.6	664.2	663.7	662.1	660.4	658.8	657.2	658.8	660.4	662.1
132.5°	697.3	697.8	698.2	697.6	695.9	694.3	692.7	691.0	692.7	694.3	695.9
135°	747.8	748.0	748.2	747.7	746.5	745.2	744.0	742.8	744.0	745.2	746.5
137.5°	796.5	796.1	795.5	794.7	793.7	792.7	791.6	790.7	791.6	792.7	793.7
140°	828.9	828.7	828.5	827.8	826.9	825.9	824.8	823.8	824.8	825.9	826.9
142.5°	859.5	859.1	858.7	858.1	857.1	856.0	855.0	854.0	855.0	856.0	857.1
145°	904.4	903.9	903.2	902.7	902.3	901.9	901.5	901.1	901.5	901.9	902.3
147.5°	947.1	946.5	945.9	945.3	944.5	943.8	943.1	942.3	943.1	943.8	944.5
150°	973.9	973.5	973.1	972.7	972.2	971.8	971.5	971.1	971.5	971.8	972.2
152.5°	997.8	997.5	997.3	996.9	996.3	995.8	995.2	994.6	995.2	995.8	996.3
155°	1032.3	1032.1	1031.9	1031.8	1031.8	1031.8	1031.8	1031.8	1031.8	1031.8	1031.8
157.5°	1062.8	1062.6	1062.4	1062.5	1062.7	1063.0	1063.2	1063.4	1063.2	1063.0	1062.7
160°	1081.5	1081.5	1081.5	1081.7	1082.1	1082.5	1082.9	1083.3	1082.9	1082.5	1082.1
162.5°	1098.8	1098.7	1098.5	1098.8	1099.3	1099.9	1100.4	1101.0	1100.4	1099.9	1099.3
165°	1121.1	1121.1	1121.1	1121.4	1122.0	1122.6	1123.2	1123.9	1123.2	1122.6	1122.0
167.5°	1138.8	1138.6	1138.4	1138.8	1139.6	1140.4	1141.2	1142.1	1141.2	1140.4	1139.6
170°	1148.7	1148.7	1148.7	1149.1	1149.9	1150.7	1151.5	1152.4	1151.5	1150.7	1149.9
172.5°	1156.8	1156.8	1156.8	1157.2	1158.0	1158.8	1159.7	1160.5	1159.7	1158.8	1158.0
175°	1165.2	1165.2	1165.2	1165.7	1166.5	1167.3	1168.2	1168.9	1168.2	1167.3	1166.5
177.5°	1169.5	1169.5	1169.5	1169.8	1170.4	1171.2	1171.8	1172.4	1171.8	1171.2	1170.4
180°	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2
2.5°	615.8	614.1	611.6	608.0	605.1	600.5	600.5	601.2	601.2	600.9	600.5
5°	597.1	592.6	587.1	580.7	574.0	567.4	566.2	563.7	561.9	560.7	559.2
7.5°	577.3	569.3	561.3	552.5	544.3	537.6	532.9	529.0	526.5	523.9	521.9
10°	564.0	554.0	544.6	535.2	524.9	516.7	511.5	507.9	505.2	502.7	501.5
12.5°	548.3	536.8	526.4	517.5	506.2	497.7	492.8	491.2	487.9	482.8	480.1
15°	525.2	514.6	502.2	488.5	483.0	472.7	466.9	464.2	462.4	458.4	457.2
17.5°	505.5	491.5	477.6	467.4	457.2	448.9	445.7	442.3	439.9	436.7	435.7
20°	489.7	477.3	464.5	453.6	443.0	433.9	431.1	428.7	426.3	424.8	423.6
22.5°	473.6	461.2	450.7	440.5	429.1	423.2	420.2	417.6	415.8	414.8	413.6
25°	451.1	440.2	428.4	419.3	410.2	406.2	404.4	402.9	401.7	400.2	399.9
27.5°	431.0	419.1	409.6	401.0	394.5	391.2	389.4	388.7	389.0	389.5	389.8
30°	416.0	405.0	397.1	389.8	383.8	380.8	380.5	380.5	381.7	382.0	382.6
32.5°	402.1	393.2	385.2	378.2	373.6	371.5	372.7	372.7	373.7	374.5	375.6
35°	382.0	374.1	368.0	361.9	358.0	358.9	359.5	360.1	361.6	363.5	364.7
37.5°	362.7	355.9	349.6	344.8	343.0	344.7	346.1	347.4	349.2	350.5	351.7
40°	348.9	343.7	337.7	333.4	334.1	334.9	336.2	337.7	339.2	340.1	341.4
42.5°	336.0	330.7	326.1	322.5	323.4	324.6	325.3	326.1	327.8	329.5	330.2
45°	316.5	312.2	307.9	305.9	306.4	307.0	307.7	308.6	310.1	311.3	311.6
47.5°	294.5	291.4	288.6	286.5	287.5	287.2	288.0	290.0	290.5	291.2	292.9
50°	280.4	277.6	274.3	273.7	273.7	273.7	273.9	276.4	276.4	277.6	278.8
52.5°	264.8	263.1	260.9	259.8	259.4	259.4	260.6	261.8	262.3	264.0	265.2
55°	241.8	240.0	238.2	237.3	236.6	237.3	239.7	240.3	241.8	242.7	243.6
57.5°	217.9	216.4	215.0	214.5	214.4	215.2	216.5	218.3	218.7	221.5	222.8
60°	202.1	199.9	198.8	198.8	198.1	200.8	200.3	203.3	203.9	205.7	207.9
62.5°	185.8	182.9	182.4	182.4	183.3	184.1	185.0	186.3	187.9	190.2	191.8
65°	159.6	158.0	160.2	159.9	159.3	161.1	161.1	162.6	164.5	166.6	169.9
67.5°	134.8	134.0	134.2	134.2	135.1	136.1	137.0	138.3	140.5	142.8	144.9
70°	118.0	118.9	117.4	118.7	119.5	119.9	120.4	122.2	124.7	126.2	128.7
72.5°	101.8	101.7	101.9	102.3	103.3	103.9	104.4	106.5	109.2	110.4	112.4
75°	78.3	78.0	78.9	78.9	80.4	81.0	81.6	82.5	84.9	86.7	88.3
77.5°	57.2	57.5	57.4	58.4	58.0	58.1	60.0	60.8	61.1	64.7	65.5
80°	43.1	43.7	44.0	44.3	44.6	44.0	46.1	47.1	47.1	49.1	50.7
82.5°	31.0	31.3	32.1	32.4	32.5	33.0	33.3	33.9	34.6	35.6	37.5
85°	15.4	16.4	16.7	16.4	16.7	16.1	17.0	17.3	17.6	17.6	17.6
87.5°	6.7	7.4	7.7	8.5	8.7	9.5	9.7	9.3	9.5	10.4	9.6
90°	9.1	11.5	14.1	16.8	19.4	22.1	22.9	23.8	24.6	25.3	26.0
92.5°	27.8	29.3	30.8	32.3	33.8	35.3	36.0	36.7	37.3	37.9	38.2
95°	60.0	61.6	63.2	64.8	66.5	68.1	68.9	69.7	70.6	71.4	71.8
97.5°	100.7	101.9	103.1	104.3	105.4	106.5	107.5	108.4	109.4	110.4	110.7
100°	130.1	131.2	132.2	133.2	134.3	135.3	135.9	136.5	137.1	137.8	138.2
102.5°	161.3	162.3	163.7	165.0	166.4	167.7	168.3	168.9	169.5	170.2	170.4
105°	208.7	209.8	211.7	213.6	215.4	217.2	217.2	217.2	217.2	217.2	217.5
107.5°	264.7	265.3	266.0	266.7	267.4	268.2	268.9	269.5	270.2	270.8	271.0
110°	300.8	301.2	301.6	302.0	302.4	302.9	303.6	304.4	305.3	306.1	306.3



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	336.9	337.1	337.2	337.2	337.3	337.4	338.4	339.4	340.4	341.4	341.8
115°	393.6	393.7	393.3	392.9	392.5	392.1	392.3	392.5	392.7	392.9	392.9
117.5°	448.4	448.4	447.8	447.3	446.8	446.2	446.2	446.2	446.1	446.1	445.8
120°	486.3	486.4	485.4	484.3	483.3	482.3	482.1	481.9	481.7	481.5	481.2
122.5°	521.1	521.3	520.7	520.1	519.7	519.1	518.6	518.1	517.5	517.0	516.4
125°	575.0	575.0	574.6	574.3	573.9	573.5	572.6	571.8	571.0	570.1	569.3
127.5°	628.5	629.0	628.5	628.0	627.6	627.2	626.1	624.9	623.8	622.6	621.5
130°	663.7	664.2	663.6	663.0	662.4	661.8	661.0	660.1	659.3	658.5	657.4
132.5°	697.6	698.2	697.8	697.3	696.8	696.4	695.4	694.4	693.5	692.4	691.4
135°	747.7	748.2	748.0	747.8	747.6	747.3	746.6	745.8	744.9	744.1	743.5
137.5°	794.7	795.5	796.1	796.5	797.1	797.6	796.8	795.9	795.0	794.2	793.4
140°	827.8	828.5	828.7	828.9	829.1	829.3	829.1	828.9	828.7	828.5	827.7
142.5°	858.1	858.7	859.1	859.5	859.8	860.2	860.0	859.8	859.6	859.4	858.7
145°	902.7	903.2	903.9	904.4	905.1	905.7	905.5	905.3	905.1	904.9	904.4
147.5°	945.3	945.9	946.5	947.1	947.6	948.2	948.2	948.2	948.2	948.2	947.6
150°	972.7	973.1	973.5	973.9	974.3	974.7	974.7	974.7	974.7	974.7	974.1
152.5°	996.9	997.3	997.5	997.8	998.1	998.3	998.6	998.9	999.3	999.6	999.3
155°	1031.8	1031.9	1032.1	1032.3	1032.5	1032.7	1033.6	1034.4	1035.1	1036.0	1035.7
157.5°	1062.5	1062.4	1062.6	1062.8	1063.0	1063.1	1064.0	1064.8	1065.6	1066.5	1066.4
160°	1081.7	1081.5	1081.5	1081.5	1081.5	1081.5	1082.5	1083.5	1084.6	1085.6	1085.7
162.5°	1098.8	1098.5	1098.7	1098.8	1099.0	1099.2	1100.2	1101.2	1102.2	1103.3	1103.1
165°	1121.4	1121.1	1121.1	1121.1	1121.1	1121.1	1122.3	1123.6	1124.7	1126.0	1125.8
167.5°	1138.8	1138.4	1138.6	1138.8	1138.9	1139.1	1140.3	1141.6	1142.9	1144.1	1144.1
170°	1149.1	1148.7	1148.7	1148.7	1148.7	1148.7	1150.1	1151.5	1153.0	1154.4	1154.4
172.5°	1157.2	1156.8	1156.8	1156.8	1156.8	1156.8	1158.1	1159.4	1160.6	1161.9	1161.8
175°	1165.7	1165.2	1165.2	1165.2	1165.2	1165.2	1166.5	1167.7	1168.9	1170.1	1170.1
177.5°	1169.8	1169.5	1169.5	1169.5	1169.5	1169.5	1170.4	1171.5	1172.4	1173.4	1173.3
180°	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7



TEST NUMBER: P331947-927

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2
2.5°	598.8	598.6	600.2	599.0	600.2	598.6	598.8	600.5	600.9	601.2	601.2
5°	557.4	558.3	555.2	555.2	555.2	558.3	557.4	559.2	560.7	561.9	563.7
7.5°	520.5	519.1	519.3	517.6	519.3	519.1	520.5	521.9	523.9	526.5	529.0
10°	497.9	496.1	495.4	495.7	495.4	496.1	497.9	501.5	502.7	505.2	507.9
12.5°	479.2	478.8	474.8	474.9	474.8	478.8	479.2	480.1	482.8	487.9	491.2
15°	457.2	451.5	450.8	452.7	450.8	451.5	457.2	457.2	458.4	462.4	464.2
17.5°	435.2	432.1	432.4	431.4	432.4	432.1	435.2	435.7	436.7	439.9	442.3
20°	423.6	421.8	421.4	419.3	421.4	421.8	423.6	423.6	424.8	426.3	428.7
22.5°	412.9	412.3	412.4	410.1	412.4	412.3	412.9	413.6	414.8	415.8	417.6
25°	399.6	401.1	399.9	399.9	399.9	401.1	399.6	399.9	400.2	401.7	402.9
27.5°	390.6	390.5	389.9	389.9	389.9	390.5	390.6	389.8	389.5	389.0	388.7
30°	383.8	383.5	384.1	384.1	384.1	383.5	383.8	382.6	382.0	381.7	380.5
32.5°	377.0	377.4	377.6	377.8	377.6	377.4	377.0	375.6	374.5	373.7	372.7
35°	366.5	366.8	367.7	367.1	367.7	366.8	366.5	364.7	363.5	361.6	360.1
37.5°	352.3	353.7	353.4	353.9	353.4	353.7	352.3	351.7	350.5	349.2	347.4
40°	341.7	342.5	342.2	342.2	342.2	342.5	341.7	341.4	340.1	339.2	337.7
42.5°	330.7	331.4	330.6	330.1	330.6	331.4	330.7	330.2	329.5	327.8	326.1
45°	312.8	312.2	313.1	311.9	313.1	312.2	312.8	311.6	311.3	310.1	308.6
47.5°	292.8	293.4	293.7	294.5	293.7	293.4	292.8	292.9	291.2	290.5	290.0
50°	279.4	281.2	281.2	281.0	281.2	281.2	279.4	278.8	277.6	276.4	276.4
52.5°	266.3	267.2	268.4	268.3	268.4	267.2	266.3	265.2	264.0	262.3	261.8
55°	246.1	246.7	247.2	247.6	247.2	246.7	246.1	243.6	242.7	241.8	240.3
57.5°	225.1	224.8	226.2	226.7	226.2	224.8	225.1	222.8	221.5	218.7	218.3
60°	210.2	210.2	212.7	213.6	212.7	210.2	210.2	207.9	205.7	203.9	203.3
62.5°	194.5	195.4	197.9	196.6	197.9	195.4	194.5	191.8	190.2	187.9	186.3
65°	171.4	173.9	173.6	174.8	173.6	173.9	171.4	169.9	166.6	164.5	162.6
67.5°	147.3	148.9	151.1	151.2	151.1	148.9	147.3	144.9	142.8	140.5	138.3
70°	131.1	132.6	133.8	134.7	133.8	132.6	131.1	128.7	126.2	124.7	122.2
72.5°	115.3	116.1	119.0	117.7	119.0	116.1	115.3	112.4	110.4	109.2	106.5
75°	90.4	92.5	94.3	93.5	94.3	92.5	90.4	88.3	86.7	84.9	82.5
77.5°	66.9	69.0	69.9	69.1	69.9	69.0	66.9	65.5	64.7	61.1	60.8
80°	52.8	52.5	54.3	54.0	54.3	52.5	52.8	50.7	49.1	47.1	47.1
82.5°	38.7	38.4	39.3	39.5	39.3	38.4	38.7	37.5	35.6	34.6	33.9
85°	18.8	19.7	18.5	18.2	18.5	19.7	18.8	17.6	17.6	17.6	17.3
87.5°	9.7	9.7	9.6	9.4	9.6	9.7	9.7	9.6	10.4	9.5	9.3
90°	26.4	26.8	27.2	27.6	27.2	26.8	26.4	26.0	25.3	24.6	23.8
92.5°	37.9	37.7	37.4	37.2	37.4	37.7	37.9	38.2	37.9	37.3	36.7
95°	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.4	70.6	69.7
97.5°	110.7	110.6	110.5	110.4	110.5	110.6	110.7	110.7	110.4	109.4	108.4
100°	138.7	139.1	139.5	139.9	139.5	139.1	138.7	138.2	137.8	137.1	136.5
102.5°	170.3	170.2	170.2	170.1	170.2	170.2	170.3	170.4	170.2	169.5	168.9
105°	217.9	218.2	218.6	219.0	218.6	218.2	217.9	217.5	217.2	217.2	217.2
107.5°	270.8	270.5	270.3	270.1	270.3	270.5	270.8	271.0	270.8	270.2	269.5
110°	305.9	305.5	305.1	304.7	305.1	305.5	305.9	306.3	306.1	305.3	304.4



TEST NUMBER: P331947-927

CATALOG NUMBER: S123DIP-S560D1195U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	341.7	341.7	341.6	341.5	341.6	341.7	341.7	341.8	341.4	340.4	339.4
115°	392.7	392.5	392.3	392.1	392.3	392.5	392.7	392.9	392.9	392.7	392.5
117.5°	445.2	444.6	444.0	443.5	444.0	444.6	445.2	445.8	446.1	446.1	446.2
120°	480.8	480.4	480.0	479.5	480.0	480.4	480.8	481.2	481.5	481.7	481.9
122.5°	515.9	515.3	514.7	514.1	514.7	515.3	515.9	516.4	517.0	517.5	518.1
125°	568.5	567.7	566.9	566.1	566.9	567.7	568.5	569.3	570.1	571.0	571.8
127.5°	620.6	619.6	618.7	617.8	618.7	619.6	620.6	621.5	622.6	623.8	624.9
130°	655.9	654.5	653.1	651.6	653.1	654.5	655.9	657.4	658.5	659.3	660.1
132.5°	690.3	689.2	688.1	687.0	688.1	689.2	690.3	691.4	692.4	693.5	694.4
135°	743.1	742.7	742.3	741.9	742.3	742.7	743.1	743.5	744.1	744.9	745.8
137.5°	792.6	791.9	791.1	790.3	791.1	791.9	792.6	793.4	794.2	795.0	795.9
140°	826.2	824.8	823.4	822.0	823.4	824.8	826.2	827.7	828.5	828.7	828.9
142.5°	857.6	856.5	855.5	854.4	855.5	856.5	857.6	858.7	859.4	859.6	859.8
145°	903.6	902.7	901.9	901.1	901.9	902.7	903.6	904.4	904.9	905.1	905.3
147.5°	946.3	945.2	943.9	942.7	943.9	945.2	946.3	947.6	948.2	948.2	948.2
150°	972.9	971.7	970.4	969.2	970.4	971.7	972.9	974.1	974.7	974.7	974.7
152.5°	998.1	997.1	996.0	995.0	996.0	997.1	998.1	999.3	999.6	999.3	998.9
155°	1034.3	1032.8	1031.4	1029.9	1031.4	1032.8	1034.3	1035.7	1036.0	1035.1	1034.4
157.5°	1065.2	1064.1	1063.0	1061.8	1063.0	1064.1	1065.2	1066.4	1066.5	1065.6	1064.8
160°	1084.9	1084.0	1083.2	1082.4	1083.2	1084.0	1084.9	1085.7	1085.6	1084.6	1083.5
162.5°	1101.8	1100.5	1099.2	1097.9	1099.2	1100.5	1101.8	1103.1	1103.3	1102.2	1101.2
165°	1124.4	1123.0	1121.6	1120.1	1121.6	1123.0	1124.4	1125.8	1126.0	1124.7	1123.6
167.5°	1142.9	1141.6	1140.3	1139.1	1140.3	1141.6	1142.9	1144.1	1144.1	1142.9	1141.6
170°	1153.0	1151.5	1150.1	1148.7	1150.1	1151.5	1153.0	1154.4	1154.4	1153.0	1151.5
172.5°	1160.3	1158.9	1157.5	1156.0	1157.5	1158.9	1160.3	1161.8	1161.9	1160.6	1159.4
175°	1168.6	1167.2	1165.8	1164.3	1165.8	1167.2	1168.6	1170.1	1170.1	1168.9	1167.7
177.5°	1172.2	1171.0	1169.9	1168.8	1169.9	1171.0	1172.2	1173.3	1173.4	1172.4	1171.5
180°	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2
2.5°	600.5	600.5	605.1	608.0	611.6	614.1	615.8	617.5	620.4	624.3	628.7
5°	566.2	567.4	574.0	580.7	587.1	592.6	597.1	602.5	609.3	617.4	626.5
7.5°	532.9	537.6	544.3	552.5	561.3	569.3	577.3	586.4	595.7	607.8	620.6
10°	511.5	516.7	524.9	535.2	544.6	554.0	564.0	573.7	585.6	599.8	616.2
12.5°	492.8	497.7	506.2	517.5	526.4	536.8	548.3	560.9	574.2	591.4	609.9
15°	466.9	472.7	483.0	488.5	502.2	514.6	525.2	543.4	560.4	578.0	599.5
17.5°	445.7	448.9	457.2	467.4	477.6	491.5	505.5	520.6	537.6	559.1	586.1
20°	431.1	433.9	443.0	453.6	464.5	477.3	489.7	504.9	523.9	546.8	575.8
22.5°	420.2	423.2	429.1	440.5	450.7	461.2	473.6	491.8	512.1	534.3	565.9
25°	404.4	406.2	410.2	419.3	428.4	440.2	451.1	468.2	489.1	515.2	546.8
27.5°	389.4	391.2	394.5	401.0	409.6	419.1	431.0	445.4	466.7	495.0	528.5
30°	380.5	380.8	383.8	389.8	397.1	405.0	416.0	432.4	452.3	481.2	516.4
32.5°	372.7	371.5	373.6	378.2	385.2	393.2	402.1	418.3	437.6	465.9	502.1
35°	359.5	358.9	358.0	361.9	368.0	374.1	382.0	394.1	416.0	442.4	480.3
37.5°	346.1	344.7	343.0	344.8	349.6	355.9	362.7	373.5	392.4	421.4	457.7
40°	336.2	334.9	334.1	333.4	337.7	343.7	348.9	359.3	376.8	404.4	440.2
42.5°	325.3	324.6	323.4	322.5	326.1	330.7	336.0	345.2	362.7	388.6	422.6
45°	307.7	307.0	306.4	305.9	307.9	312.2	316.5	323.1	338.3	363.5	394.1
47.5°	288.0	287.2	287.5	286.5	288.6	291.4	294.5	301.6	316.2	336.4	358.9
50°	273.9	273.7	273.7	273.7	274.3	277.6	280.4	285.8	299.1	319.5	335.6
52.5°	260.6	259.4	259.4	259.8	260.9	263.1	264.8	270.8	282.4	299.1	313.7
55°	239.7	237.3	236.6	237.3	238.2	240.0	241.8	246.7	256.7	269.1	277.6
57.5°	216.5	215.2	214.4	214.5	215.0	216.4	217.9	223.2	231.0	237.5	243.0
60°	200.3	200.8	198.1	198.8	198.8	199.9	202.1	205.4	212.1	216.7	222.1
62.5°	185.0	184.1	183.3	182.4	182.4	182.9	185.8	188.4	194.1	196.5	200.7
65°	161.1	161.1	159.3	159.9	160.2	158.0	159.6	162.6	166.3	167.2	171.1
67.5°	137.0	136.1	135.1	134.2	134.2	134.0	134.8	136.3	139.0	139.3	142.4
70°	120.4	119.9	119.5	118.7	117.4	118.9	118.0	119.5	121.0	121.4	123.2
72.5°	104.4	103.9	103.3	102.3	101.9	101.7	101.8	103.5	104.6	104.1	106.2
75°	81.6	81.0	80.4	78.9	78.9	78.0	78.3	79.5	80.7	79.8	81.6
77.5°	60.0	58.1	58.0	58.4	57.4	57.5	57.2	57.0	57.5	57.6	59.3
80°	46.1	44.0	44.6	44.3	44.0	43.7	43.1	43.4	43.7	44.0	44.9
82.5°	33.3	33.0	32.5	32.4	32.1	31.3	31.0	31.5	31.8	31.6	32.3
85°	17.0	16.1	16.7	16.4	16.7	16.4	15.4	15.4	16.1	15.8	16.4
87.5°	9.7	9.5	8.7	8.5	7.7	7.4	6.7	6.5	6.3	5.9	6.0
90°	22.9	22.1	19.4	16.8	14.1	11.5	9.1	7.1	5.0	2.9	1.0
92.5°	36.0	35.3	33.8	32.3	30.8	29.3	27.8	26.5	25.0	23.7	22.3
95°	68.9	68.1	66.5	64.8	63.2	61.6	60.0	58.6	57.2	55.8	54.3
97.5°	107.5	106.5	105.4	104.3	103.1	101.9	100.7	99.7	98.6	97.5	96.5
100°	135.9	135.3	134.3	133.2	132.2	131.2	130.1	128.9	127.6	126.4	125.2
102.5°	168.3	167.7	166.4	165.0	163.7	162.3	161.3	160.5	159.8	159.1	158.3
105°	217.2	217.2	215.4	213.6	211.7	209.8	208.7	208.3	207.9	207.5	207.1
107.5°	268.9	268.2	267.4	266.7	266.0	265.3	264.7	264.5	264.3	264.0	263.8
110°	303.6	302.9	302.4	302.0	301.6	301.2	300.8	300.4	299.9	299.5	299.1



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	338.4	337.4	337.3	337.2	337.2	337.1	336.9	336.7	336.4	336.2	336.0
115°	392.3	392.1	392.5	392.9	393.3	393.7	393.6	393.0	392.4	391.8	391.2
117.5°	446.2	446.2	446.8	447.3	447.8	448.4	448.4	448.0	447.6	447.2	446.8
120°	482.1	482.3	483.3	484.3	485.4	486.4	486.3	485.1	483.9	482.6	481.4
122.5°	518.6	519.1	519.7	520.1	520.7	521.3	521.1	520.1	519.3	518.3	517.5
125°	572.6	573.5	573.9	574.3	574.6	575.0	575.0	574.3	573.7	573.1	572.5
127.5°	626.1	627.2	627.6	628.0	628.5	629.0	628.5	627.2	625.9	624.6	623.3
130°	661.0	661.8	662.4	663.0	663.6	664.2	663.7	662.1	660.4	658.8	657.2
132.5°	695.4	696.4	696.8	697.3	697.8	698.2	697.6	695.9	694.3	692.7	691.0
135°	746.6	747.3	747.6	747.8	748.0	748.2	747.7	746.5	745.2	744.0	742.8
137.5°	796.8	797.6	797.1	796.5	796.1	795.5	794.7	793.7	792.7	791.6	790.7
140°	829.1	829.3	829.1	828.9	828.7	828.5	827.8	826.9	825.9	824.8	823.8
142.5°	860.0	860.2	859.8	859.5	859.1	858.7	858.1	857.1	856.0	855.0	854.0
145°	905.5	905.7	905.1	904.4	903.9	903.2	902.7	902.3	901.9	901.5	901.1
147.5°	948.2	948.2	947.6	947.1	946.5	945.9	945.3	944.5	943.8	943.1	942.3
150°	974.7	974.7	974.3	973.9	973.5	973.1	972.7	972.2	971.8	971.5	971.1
152.5°	998.6	998.3	998.1	997.8	997.5	997.3	996.9	996.3	995.8	995.2	994.6
155°	1033.6	1032.7	1032.5	1032.3	1032.1	1031.9	1031.8	1031.8	1031.8	1031.8	1031.8
157.5°	1064.0	1063.1	1063.0	1062.8	1062.6	1062.4	1062.5	1062.7	1063.0	1063.2	1063.4
160°	1082.5	1081.5	1081.5	1081.5	1081.5	1081.5	1081.7	1082.1	1082.5	1082.9	1083.3
162.5°	1100.2	1099.2	1099.0	1098.8	1098.7	1098.5	1098.8	1099.3	1099.9	1100.4	1101.0
165°	1122.3	1121.1	1121.1	1121.1	1121.1	1121.1	1121.4	1122.0	1122.6	1123.2	1123.9
167.5°	1140.3	1139.1	1138.9	1138.8	1138.6	1138.4	1138.8	1139.6	1140.4	1141.2	1142.1
170°	1150.1	1148.7	1148.7	1148.7	1148.7	1148.7	1149.1	1149.9	1150.7	1151.5	1152.4
172.5°	1158.1	1156.8	1156.8	1156.8	1156.8	1156.8	1157.2	1158.0	1158.8	1159.7	1160.5
175°	1166.5	1165.2	1165.2	1165.2	1165.2	1165.2	1165.7	1166.5	1167.3	1168.2	1168.9
177.5°	1170.4	1169.5	1169.5	1169.5	1169.5	1169.5	1169.8	1170.4	1171.2	1171.8	1172.4
180°	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2
2.5°	630.1	631.3	635.4	638.3	641.7	643.7	645.6	647.1	649.0	649.5	656.6
5°	632.9	639.0	649.6	657.4	667.2	677.8	685.1	688.4	697.2	704.5	719.1
7.5°	632.1	645.0	661.1	677.7	695.5	712.0	726.4	743.3	755.4	773.6	791.5
10°	631.4	648.6	669.3	690.5	715.4	738.5	759.1	782.2	801.3	826.5	848.0
12.5°	629.2	650.1	678.7	703.9	734.1	765.9	796.5	826.1	843.0	884.9	904.8
15°	623.8	648.6	684.4	722.7	764.3	801.9	840.7	871.6	921.7	958.5	981.8
17.5°	613.5	648.3	690.8	736.9	787.4	837.0	881.0	928.0	981.1	1025.5	1072.9
20°	608.6	646.8	694.2	745.1	797.6	853.7	903.8	960.3	1018.2	1061.9	1122.6
22.5°	599.7	642.9	694.0	750.8	806.8	864.9	923.5	980.4	1047.3	1107.6	1165.3
25°	584.9	633.5	686.3	749.7	815.6	873.8	943.9	1019.5	1089.3	1166.6	1224.2
27.5°	569.6	621.4	674.3	733.2	804.1	873.2	961.4	1046.7	1132.0	1198.9	1241.5
30°	557.6	608.0	662.7	722.1	792.2	874.4	973.0	1066.1	1149.3	1206.7	1230.6
32.5°	544.8	595.9	644.2	706.5	781.3	873.7	980.3	1077.5	1150.2	1188.4	1183.8
35°	524.6	567.4	614.4	674.5	762.5	868.3	984.5	1078.6	1123.2	1115.0	1053.1
37.5°	495.4	531.5	577.7	643.5	740.6	857.1	976.0	1046.6	1043.7	977.0	887.3
40°	477.3	507.9	552.5	621.7	723.6	849.9	962.7	1008.5	969.7	876.5	769.1
42.5°	453.4	481.6	526.2	597.4	705.0	835.0	937.2	950.5	874.5	767.3	668.9
45°	416.6	441.5	487.6	561.0	676.9	802.8	875.0	842.6	740.3	629.5	554.6
47.5°	376.9	402.8	447.2	522.6	636.4	754.3	788.7	719.7	614.7	524.9	456.1
50°	352.0	376.8	420.2	496.4	609.0	714.5	728.8	639.6	543.1	464.2	407.7
52.5°	326.7	350.1	392.8	469.2	576.9	668.4	659.6	568.7	480.0	412.7	368.4
55°	289.1	311.3	352.0	423.6	521.6	594.1	562.2	475.5	402.0	349.8	316.2
57.5°	255.6	276.8	311.8	376.5	461.7	511.5	471.0	397.9	339.5	299.4	274.3
60°	232.7	251.5	284.9	345.0	419.0	456.9	416.8	352.3	303.1	270.9	248.5
62.5°	211.1	227.5	258.4	312.9	377.2	409.1	368.6	313.9	272.0	243.5	224.4
65°	178.4	193.3	220.5	263.1	315.8	337.1	302.2	257.9	225.5	204.2	191.5
67.5°	148.5	161.1	184.7	218.2	257.1	272.5	246.0	211.7	187.2	170.2	160.0
70°	128.7	139.6	158.0	186.9	222.1	233.9	209.1	180.9	163.0	149.2	139.9
72.5°	111.9	119.9	136.7	159.0	188.4	197.7	180.4	155.6	138.9	128.7	121.2
75°	85.2	91.9	102.8	120.7	141.1	146.6	133.5	118.0	106.8	99.5	93.7
77.5°	61.5	66.4	74.3	85.3	99.4	104.3	96.1	85.7	77.6	72.6	69.4
80°	46.4	50.4	57.0	66.1	74.6	77.4	72.5	64.6	58.9	56.2	53.4
82.5°	34.3	36.5	40.6	46.7	52.5	55.8	51.7	46.9	43.8	41.4	40.3
85°	17.3	18.5	20.4	22.7	26.4	27.6	26.1	24.9	23.1	21.5	21.5
87.5°	6.9	7.3	8.5	9.3	10.8	12.0	12.4	12.4	12.7	12.6	12.5
90°	2.9	5.0	7.1	9.1	11.5	14.1	16.8	19.4	22.1	22.9	23.8
92.5°	23.7	25.0	26.5	27.8	29.3	30.8	32.3	33.8	35.3	36.0	36.7
95°	55.8	57.2	58.6	60.0	61.6	63.2	64.8	66.5	68.1	68.9	69.7
97.5°	97.5	98.6	99.7	100.7	101.9	103.1	104.3	105.4	106.5	107.5	108.4
100°	126.4	127.6	128.9	130.1	131.2	132.2	133.2	134.3	135.3	135.9	136.5
102.5°	159.1	159.8	160.5	161.3	162.3	163.7	165.0	166.4	167.7	168.3	168.9
105°	207.5	207.9	208.3	208.7	209.8	211.7	213.6	215.4	217.2	217.2	217.2
107.5°	264.0	264.3	264.5	264.7	265.3	266.0	266.7	267.4	268.2	268.9	269.5
110°	299.5	299.9	300.4	300.8	301.2	301.6	302.0	302.4	302.9	303.6	304.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	336.2	336.4	336.7	336.9	337.1	337.2	337.2	337.3	337.4	338.4	339.4
115°	391.8	392.4	393.0	393.6	393.7	393.3	392.9	392.5	392.1	392.3	392.5
117.5°	447.2	447.6	448.0	448.4	448.4	447.8	447.3	446.8	446.2	446.2	446.2
120°	482.6	483.9	485.1	486.3	486.4	485.4	484.3	483.3	482.3	482.1	481.9
122.5°	518.3	519.3	520.1	521.1	521.3	520.7	520.1	519.7	519.1	518.6	518.1
125°	573.1	573.7	574.3	575.0	575.0	574.6	574.3	573.9	573.5	572.6	571.8
127.5°	624.6	625.9	627.2	628.5	629.0	628.5	628.0	627.6	627.2	626.1	624.9
130°	658.8	660.4	662.1	663.7	664.2	663.6	663.0	662.4	661.8	661.0	660.1
132.5°	692.7	694.3	695.9	697.6	698.2	697.8	697.3	696.8	696.4	695.4	694.4
135°	744.0	745.2	746.5	747.7	748.2	748.0	747.8	747.6	747.3	746.6	745.8
137.5°	791.6	792.7	793.7	794.7	795.5	796.1	796.5	797.1	797.6	796.8	795.9
140°	824.8	825.9	826.9	827.8	828.5	828.7	828.9	829.1	829.3	829.1	828.9
142.5°	855.0	856.0	857.1	858.1	858.7	859.1	859.5	859.8	860.2	860.0	859.8
145°	901.5	901.9	902.3	902.7	903.2	903.9	904.4	905.1	905.7	905.5	905.3
147.5°	943.1	943.8	944.5	945.3	945.9	946.5	947.1	947.6	948.2	948.2	948.2
150°	971.5	971.8	972.2	972.7	973.1	973.5	973.9	974.3	974.7	974.7	974.7
152.5°	995.2	995.8	996.3	996.9	997.3	997.5	997.8	998.1	998.3	998.6	998.9
155°	1031.8	1031.8	1031.8	1031.8	1031.9	1032.1	1032.3	1032.5	1032.7	1033.6	1034.4
157.5°	1063.2	1063.0	1062.7	1062.5	1062.4	1062.6	1062.8	1063.0	1063.1	1064.0	1064.8
160°	1082.9	1082.5	1082.1	1081.7	1081.5	1081.5	1081.5	1081.5	1081.5	1082.5	1083.5
162.5°	1100.4	1099.9	1099.3	1098.8	1098.5	1098.7	1098.8	1099.0	1099.2	1100.2	1101.2
165°	1123.2	1122.6	1122.0	1121.4	1121.1	1121.1	1121.1	1121.1	1121.1	1122.3	1123.6
167.5°	1141.2	1140.4	1139.6	1138.8	1138.4	1138.6	1138.8	1138.9	1139.1	1140.3	1141.6
170°	1151.5	1150.7	1149.9	1149.1	1148.7	1148.7	1148.7	1148.7	1148.7	1150.1	1151.5
172.5°	1159.7	1158.8	1158.0	1157.2	1156.8	1156.8	1156.8	1156.8	1156.8	1158.1	1159.4
175°	1168.2	1167.3	1166.5	1165.7	1165.2	1165.2	1165.2	1165.2	1165.2	1166.5	1167.7
177.5°	1171.8	1171.2	1170.4	1169.8	1169.5	1169.5	1169.5	1169.5	1169.5	1170.4	1171.5
180°	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	626.2	626.2	626.2	626.2	626.2	626.2	626.2
2.5°	659.0	659.3	661.9	663.8	662.9	664.1	664.6
5°	719.9	730.9	736.7	740.9	741.2	741.5	743.9
7.5°	806.4	818.2	826.7	839.7	843.6	848.0	846.8
10°	869.6	886.8	901.7	909.6	918.1	930.5	920.5
12.5°	928.5	959.2	981.8	994.0	1002.1	1004.6	999.7
15°	1025.8	1065.9	1087.4	1086.8	1114.1	1125.9	1107.4
17.5°	1115.0	1152.0	1181.5	1196.7	1219.5	1224.6	1222.3
20°	1169.6	1210.0	1233.0	1259.1	1271.0	1281.6	1283.4
22.5°	1216.7	1252.9	1277.7	1299.4	1309.3	1314.3	1317.4
25°	1265.2	1293.7	1308.6	1316.1	1318.9	1318.3	1314.3
27.5°	1261.9	1264.0	1247.7	1231.6	1217.2	1200.9	1195.4
30°	1229.1	1203.6	1158.1	1132.3	1094.4	1064.3	1076.5
32.5°	1142.9	1092.2	1041.1	984.7	938.0	924.8	911.4
35°	975.4	886.2	834.1	773.4	749.1	724.8	708.1
37.5°	789.2	720.2	658.2	618.5	594.2	578.9	570.6
40°	682.4	620.1	569.2	537.0	518.5	501.2	498.8
42.5°	597.1	539.3	501.0	475.4	457.6	450.3	444.9
45°	489.1	448.7	422.9	404.7	392.9	388.3	382.3
47.5°	414.0	385.5	366.1	353.7	344.8	341.4	340.9
50°	372.0	348.3	334.1	324.3	317.3	316.2	311.3
52.5°	340.4	319.9	308.8	300.3	295.2	291.8	290.4
55°	295.5	281.9	271.9	267.0	263.1	259.7	259.7
57.5°	258.6	247.2	240.5	236.4	235.2	232.8	231.3
60°	235.8	226.0	220.9	217.2	214.8	215.1	212.4
62.5°	213.4	207.1	202.2	198.5	195.7	195.7	195.9
65°	181.7	176.9	173.3	172.1	170.2	168.1	168.7
67.5°	154.0	149.5	146.6	144.6	143.9	142.8	144.6
70°	134.1	130.8	128.7	126.8	126.2	126.5	128.0
72.5°	115.9	113.5	112.2	111.3	110.0	110.0	111.1
75°	91.0	89.2	88.0	87.1	86.7	86.7	86.7
77.5°	66.9	66.5	65.9	64.6	64.6	65.0	65.0
80°	52.8	51.9	51.6	50.9	50.1	49.4	50.9
82.5°	39.5	38.5	38.3	38.1	36.7	36.6	37.9
85°	21.2	20.4	20.6	20.4	20.4	20.0	20.0
87.5°	12.4	12.4	12.2	12.6	12.4	12.2	12.8
90°	24.6	25.3	26.0	26.4	26.8	27.2	27.6
92.5°	37.3	37.9	38.2	37.9	37.7	37.4	37.2
95°	70.6	71.4	71.8	71.8	71.8	71.8	71.8
97.5°	109.4	110.4	110.7	110.7	110.6	110.5	110.4
100°	137.1	137.8	138.2	138.7	139.1	139.5	139.9
102.5°	169.5	170.2	170.4	170.3	170.2	170.2	170.1
105°	217.2	217.2	217.5	217.9	218.2	218.6	219.0
107.5°	270.2	270.8	271.0	270.8	270.5	270.3	270.1
110°	305.3	306.1	306.3	305.9	305.5	305.1	304.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	340.4	341.4	341.8	341.7	341.7	341.6	341.5
115°	392.7	392.9	392.9	392.7	392.5	392.3	392.1
117.5°	446.1	446.1	445.8	445.2	444.6	444.0	443.5
120°	481.7	481.5	481.2	480.8	480.4	480.0	479.5
122.5°	517.5	517.0	516.4	515.9	515.3	514.7	514.1
125°	571.0	570.1	569.3	568.5	567.7	566.9	566.1
127.5°	623.8	622.6	621.5	620.6	619.6	618.7	617.8
130°	659.3	658.5	657.4	655.9	654.5	653.1	651.6
132.5°	693.5	692.4	691.4	690.3	689.2	688.1	687.0
135°	744.9	744.1	743.5	743.1	742.7	742.3	741.9
137.5°	795.0	794.2	793.4	792.6	791.9	791.1	790.3
140°	828.7	828.5	827.7	826.2	824.8	823.4	822.0
142.5°	859.6	859.4	858.7	857.6	856.5	855.5	854.4
145°	905.1	904.9	904.4	903.6	902.7	901.9	901.1
147.5°	948.2	948.2	947.6	946.3	945.2	943.9	942.7
150°	974.7	974.7	974.1	972.9	971.7	970.4	969.2
152.5°	999.3	999.6	999.3	998.1	997.1	996.0	995.0
155°	1035.1	1036.0	1035.7	1034.3	1032.8	1031.4	1029.9
157.5°	1065.6	1066.5	1066.4	1065.2	1064.1	1063.0	1061.8
160°	1084.6	1085.6	1085.7	1084.9	1084.0	1083.2	1082.4
162.5°	1102.2	1103.3	1103.1	1101.8	1100.5	1099.2	1097.9
165°	1124.7	1126.0	1125.8	1124.4	1123.0	1121.6	1120.1
167.5°	1142.9	1144.1	1144.1	1142.9	1141.6	1140.3	1139.1
170°	1153.0	1154.4	1154.4	1153.0	1151.5	1150.1	1148.7
172.5°	1160.6	1161.9	1161.8	1160.3	1158.9	1157.5	1156.0
175°	1168.9	1170.1	1170.1	1168.6	1167.2	1165.8	1164.3
177.5°	1172.4	1173.4	1173.3	1172.2	1171.0	1169.9	1168.8
180°	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7

(END OF REPORT)