

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: P331938-940

Luminaire Tested: **S123DIP-S560D1025U940-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331938-940
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-S560D1025U940-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1025 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5270.4 lumens
Efficiency: N/A
Efficacy: 118.4 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: General Diffuse

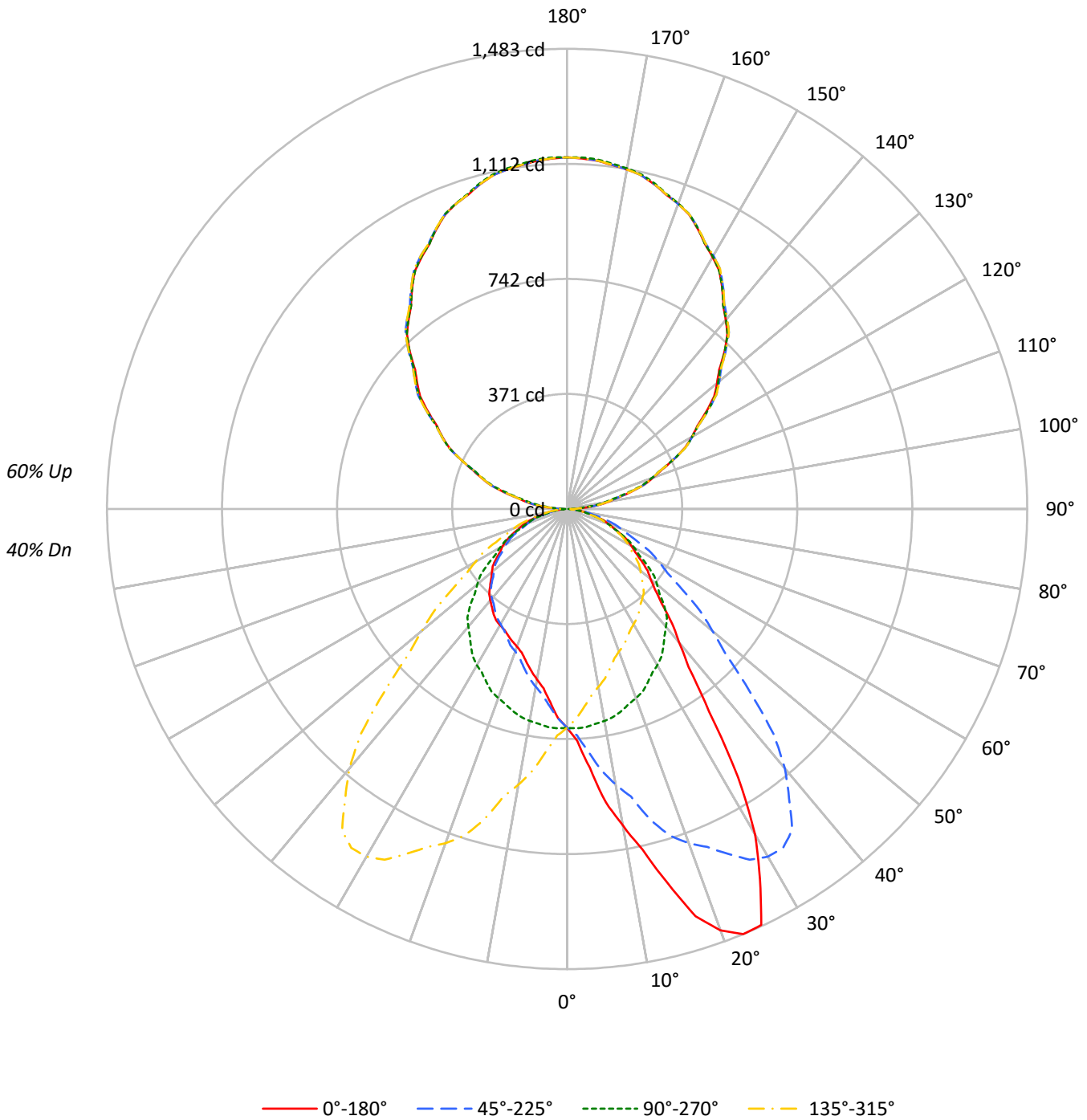
Input Watts (W): 44.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																														
0	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47	40																												
1	96	92	88	85	87	84	80	78	69	66	64	55	53	52	42	41	40	34																												
2	87	80	74	69	79	73	68	64	60	57	54	48	46	44	37	36	34	29																												
3	80	71	64	58	72	65	59	54	53	49	45	43	40	37	33	31	29	25																												
4	73	63	55	49	66	57	51	46	47	43	39	38	35	32	30	27	25	22																												
5	67	56	48	42	61	51	44	39	43	37	33	34	31	28	27	24	22	19																												
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	22	20	17																												
7	57	45	37	32	52	42	35	30	35	29	26	28	24	21	22	20	17	15																												
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	20	18	16	13																												
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12																												
10	46	34	27	22	42	32	25	21	27	22	18	22	18	15	17	15	13	11																												

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7587	7587	7587	7587
5°	9048	7621	6753	7621
10°	11326	7582	6099	7582
15°	13891	7520	5678	7520
20°	16549	7425	5407	7425
25°	17570	7310	5346	7310
30°	15060	7225	5374	7225
35°	10474	7104	5430	7104
40°	7888	6962	5413	6962
45°	6550	6753	5345	6753
50°	5868	6325	5297	6325
55°	5485	5864	5230	5864
60°	5147	5382	5175	5382
65°	4834	4905	5010	4905
70°	4535	4365	4771	4365
75°	4059	3818	4375	3818
80°	3552	3137	3769	3137
85°	2791	2285	2532	2285



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.4	1.3
10°-20°	222.7	4.2
20°-30°	373.7	7.1
30°-40°	423.1	8.0
40°-50°	379.5	7.2
50°-60°	306.2	5.8
60°-70°	213.4	4.0
70°-80°	112.2	2.1
80°-90°	30.8	0.6
90°-100°	73.8	1.4
100°-110°	220.9	4.2
110°-120°	375.8	7.1
120°-130°	494.3	9.4
130°-140°	555.6	10.5
140°-150°	546.1	10.4
150°-160°	459.7	8.7
160°-170°	306.0	5.8
170°-180°	107.2	2.0
0°-30°	665.8	12.6
0°-40°	1088.9	20.7
0°-60°	1774.6	33.7
0°-90°	2130.9	40.4
90°-120°	670.6	12.7
90°-150°	2266.5	43.0
90°-180°	3139.0	59.6
0°-180°	5270.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	705	705	705	705	705	
5°	837	705	625	705	837	87
15°	1246	675	510	675	1246	360
25°	1479	616	450	616	1479	649
35°	797	541	413	541	797	518
45°	430	444	351	444	430	340
55°	292	312	279	312	292	262
65°	190	193	197	193	190	189
75°	98	92	105	92	98	105
85°	23	18	20	18	23	27
90°	27	1	27	1	27	14
95°	70	52	70	52	70	71
105°	212	200	212	200	212	225
115°	379	378	379	378	379	375
125°	547	554	547	554	547	489
135°	718	718	718	718	718	552
145°	871	871	871	871	871	544
155°	996	998	996	998	996	459
165°	1083	1087	1083	1087	1083	306
175°	1126	1130	1126	1130	1126	107
180°	1133	1133	1133	1133	1133	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	748.1	747.5	746.2	747.3	745.0	742.1	741.8	739.0	731.1	730.6	728.4
5°	837.4	834.6	834.4	834.0	829.2	822.7	810.4	809.4	793.0	784.8	774.9
7.5°	953.1	954.6	949.6	945.2	930.6	921.0	907.8	890.9	870.8	850.3	836.7
10°	1036.2	1047.4	1033.4	1023.9	1015.0	998.3	978.8	954.6	930.3	902.0	880.5
12.5°	1125.2	1130.8	1128.0	1118.9	1105.2	1079.7	1045.2	1018.5	996.1	949.0	929.9
15°	1246.5	1267.4	1254.1	1223.3	1224.1	1199.8	1154.7	1105.2	1078.9	1037.5	981.1
17.5°	1375.8	1378.4	1372.7	1347.1	1330.0	1296.7	1255.1	1207.6	1154.3	1104.4	1044.6
20°	1444.7	1442.6	1430.7	1417.3	1387.9	1362.0	1316.5	1263.6	1195.3	1146.1	1080.9
22.5°	1482.9	1479.4	1473.8	1462.7	1438.2	1410.3	1369.6	1311.7	1246.7	1178.9	1103.6
25°	1479.4	1483.9	1484.6	1481.5	1473.0	1456.3	1424.2	1378.0	1313.1	1226.1	1147.5
27.5°	1345.6	1351.8	1370.1	1386.3	1404.4	1422.8	1420.4	1397.5	1349.5	1274.3	1178.2
30°	1211.7	1198.0	1231.9	1274.5	1303.6	1354.8	1383.5	1385.2	1358.3	1293.7	1200.1
32.5°	1025.9	1041.0	1055.9	1108.4	1171.9	1229.4	1286.5	1332.5	1337.7	1294.8	1212.9
35°	797.1	815.9	843.2	870.6	938.9	997.6	1098.0	1185.4	1255.1	1264.3	1214.1
37.5°	642.3	651.7	668.9	696.2	740.9	810.7	888.3	998.8	1099.7	1174.8	1178.1
40°	561.4	564.2	583.6	604.5	640.7	698.0	768.1	865.8	986.7	1091.5	1135.2
42.5°	500.8	506.8	515.1	535.1	563.9	607.1	672.2	753.0	863.7	984.4	1069.9
45°	430.3	437.1	442.3	455.6	476.1	505.1	550.5	624.3	708.6	833.3	948.4
47.5°	383.7	384.2	388.1	398.1	412.1	433.9	466.0	513.4	590.8	691.9	810.1
50°	350.4	355.9	357.2	365.1	376.0	392.1	418.7	459.0	522.5	611.4	720.0
52.5°	326.9	328.5	332.3	338.0	347.6	360.1	383.2	414.7	464.6	540.3	640.2
55°	292.3	292.3	296.1	300.5	306.0	317.3	332.6	355.9	393.8	452.5	535.2
57.5°	260.4	262.1	264.7	266.1	270.7	278.2	291.1	308.7	337.0	382.2	447.9
60°	239.1	242.1	241.8	244.5	248.6	254.4	265.4	279.7	305.0	341.2	396.5
62.5°	220.5	220.3	220.3	223.5	227.6	233.1	240.2	252.6	274.1	306.2	353.3
65°	189.8	189.2	191.6	193.7	195.0	199.1	204.6	215.5	229.9	253.8	290.3
67.5°	162.7	160.7	162.0	162.7	165.1	168.3	173.3	180.1	191.5	210.7	238.3
70°	144.1	142.4	142.0	142.8	144.8	147.2	151.0	157.5	168.0	183.4	203.6
72.5°	125.0	123.9	123.8	125.3	126.3	127.8	130.5	136.4	144.8	156.3	175.1
75°	97.6	97.6	97.6	98.0	99.1	100.4	102.5	105.5	112.0	120.2	132.9
77.5°	73.2	73.1	72.8	72.7	74.2	74.8	75.3	78.1	81.8	87.3	96.5
80°	57.3	55.6	56.4	57.3	58.1	58.4	59.4	60.1	63.2	66.3	72.8
82.5°	42.6	41.2	41.3	42.9	43.1	43.3	44.4	45.4	46.5	49.3	52.8
85°	22.6	22.6	22.9	22.9	23.2	22.9	23.9	24.3	24.3	25.9	28.0
87.5°	13.6	12.9	13.1	13.3	12.9	13.1	13.2	13.4	13.5	13.6	13.3
90°	26.7	26.3	25.9	25.5	25.1	24.5	23.7	22.9	22.1	21.4	18.8
92.5°	35.9	36.2	36.5	36.6	36.9	36.7	36.1	35.5	34.8	34.2	32.7
95°	69.5	69.5	69.5	69.5	69.5	69.0	68.2	67.4	66.7	65.9	64.3
97.5°	106.8	106.9	107.0	107.1	107.1	106.7	105.8	104.9	104.0	103.1	101.9
100°	135.3	134.9	134.5	134.1	133.8	133.2	132.6	132.1	131.4	130.8	129.8
102.5°	164.5	164.6	164.6	164.7	164.8	164.5	164.0	163.4	162.7	162.2	160.9
105°	211.9	211.4	211.1	210.6	210.3	210.1	210.1	210.1	210.1	210.1	208.3
107.5°	261.2	261.4	261.6	261.9	262.1	261.9	261.3	260.6	260.0	259.4	258.7
110°	294.6	295.1	295.4	295.8	296.2	296.0	295.2	294.4	293.6	292.8	292.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	330.2	330.3	330.4	330.5	330.6	330.1	329.1	328.2	327.3	326.3	326.3
115°	379.2	379.4	379.6	379.8	380.0	380.0	379.8	379.6	379.4	379.2	379.6
117.5°	428.8	429.4	430.0	430.5	431.1	431.4	431.4	431.4	431.5	431.5	432.0
120°	463.8	464.1	464.6	464.9	465.3	465.7	465.8	466.0	466.2	466.5	467.4
122.5°	497.2	497.8	498.3	498.9	499.4	500.0	500.5	501.0	501.5	502.0	502.6
125°	547.4	548.2	549.0	549.8	550.5	551.3	552.1	552.9	553.8	554.6	554.9
127.5°	597.4	598.3	599.2	600.2	601.1	602.1	603.2	604.3	605.4	606.5	607.0
130°	630.2	631.6	632.9	634.4	635.7	636.9	637.6	638.4	639.2	640.0	640.6
132.5°	664.4	665.5	666.6	667.6	668.7	669.7	670.7	671.5	672.5	673.4	673.9
135°	717.5	717.8	718.2	718.6	719.0	719.6	720.4	721.2	722.0	722.7	723.0
137.5°	764.3	765.0	765.7	766.5	767.2	768.0	768.9	769.7	770.5	771.3	770.9
140°	794.9	796.3	797.6	799.1	800.4	801.2	801.4	801.6	801.8	802.0	801.8
142.5°	826.2	827.2	828.3	829.4	830.5	831.1	831.3	831.5	831.7	831.9	831.5
145°	871.4	872.2	873.0	873.8	874.6	875.0	875.3	875.5	875.7	875.8	875.3
147.5°	911.7	912.8	914.0	915.3	916.4	917.0	917.0	917.0	917.0	917.0	916.4
150°	937.3	938.4	939.7	940.8	942.0	942.6	942.6	942.6	942.6	942.6	942.3
152.5°	962.2	963.2	964.3	965.3	966.3	966.7	966.3	966.1	965.7	965.5	965.2
155°	996.0	997.4	998.8	1000.2	1001.6	1001.8	1001.1	1000.3	999.5	998.7	998.5
157.5°	1026.8	1028.0	1029.0	1030.2	1031.3	1031.4	1030.6	1029.7	1028.9	1028.1	1028.0
160°	1046.8	1047.6	1048.4	1049.2	1049.9	1049.8	1048.8	1047.8	1046.9	1045.9	1045.9
162.5°	1061.8	1063.0	1064.3	1065.5	1066.8	1066.9	1066.0	1065.0	1064.0	1063.0	1062.8
165°	1083.3	1084.7	1086.0	1087.4	1088.8	1088.9	1087.7	1086.5	1085.3	1084.1	1084.1
167.5°	1101.6	1102.9	1104.0	1105.3	1106.5	1106.5	1105.3	1104.0	1102.9	1101.6	1101.4
170°	1110.9	1112.2	1113.7	1115.0	1116.4	1116.4	1115.0	1113.7	1112.2	1110.9	1110.9
172.5°	1117.9	1119.4	1120.8	1122.1	1123.6	1123.6	1122.4	1121.1	1119.9	1118.7	1118.7
175°	1126.0	1127.4	1128.7	1130.2	1131.5	1131.7	1130.4	1129.3	1128.1	1126.9	1126.9
177.5°	1130.2	1131.4	1132.5	1133.6	1134.7	1134.8	1133.8	1132.9	1131.9	1131.0	1131.0
180°	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	726.7	724.6	722.4	718.5	715.2	710.6	709.3	707.7	702.8	698.3	695.1
5°	771.2	762.9	751.0	740.0	731.2	719.3	712.4	705.3	695.0	685.8	678.2
7.5°	817.6	801.5	782.9	762.9	744.1	726.0	711.5	698.6	684.2	670.6	660.0
10°	854.5	831.3	805.3	777.3	753.4	730.1	710.7	693.7	675.2	659.2	645.8
12.5°	896.5	862.1	826.3	792.3	764.0	731.8	708.3	686.5	665.7	646.3	631.3
15°	946.4	902.7	860.3	813.5	770.4	730.1	702.1	674.8	650.6	630.8	611.6
17.5°	991.7	942.2	886.4	829.5	777.6	729.8	690.5	659.7	629.4	605.1	586.0
20°	1017.4	961.0	897.9	838.7	781.4	728.1	685.1	648.2	615.5	589.8	568.3
22.5°	1039.6	973.6	908.2	845.1	781.1	723.7	675.0	637.0	601.5	576.4	553.6
25°	1062.5	983.6	918.0	843.9	772.5	713.1	658.4	615.5	579.9	550.5	527.0
27.5°	1082.2	982.9	905.1	825.4	759.0	699.5	641.1	594.9	557.2	525.3	501.4
30°	1095.3	984.3	891.7	812.8	745.9	684.4	627.7	581.3	541.6	509.2	486.7
32.5°	1103.5	983.5	879.4	795.3	725.1	670.7	613.2	565.2	524.4	492.6	470.8
35°	1108.2	977.4	858.3	759.2	691.6	638.6	590.5	540.6	497.9	468.2	443.6
37.5°	1098.7	964.8	833.7	724.3	650.3	598.2	557.7	515.2	474.4	441.7	420.4
40°	1083.6	956.6	814.5	699.8	621.9	571.7	537.3	495.5	455.2	424.2	404.4
42.5°	1055.0	940.0	793.5	672.4	592.4	542.2	510.4	475.6	437.5	408.3	388.5
45°	985.0	903.7	762.0	631.5	548.8	497.0	469.0	443.6	409.1	380.8	363.7
47.5°	887.8	849.1	716.3	588.3	503.4	453.4	424.3	403.9	378.7	355.9	339.5
50°	820.4	804.3	685.5	558.7	473.0	424.2	396.2	377.7	359.6	336.7	321.7
52.5°	742.4	752.3	649.3	528.2	442.1	394.1	367.7	353.1	336.7	317.9	304.8
55°	632.8	668.7	587.1	476.8	396.2	350.4	325.5	312.5	302.9	288.9	277.7
57.5°	530.2	575.8	519.7	423.8	351.0	311.6	287.7	273.5	267.3	260.0	251.2
60°	469.2	514.3	471.6	388.3	320.7	283.1	262.0	250.0	243.9	238.7	231.2
62.5°	414.9	460.5	424.6	352.2	290.9	256.1	237.6	226.0	221.1	218.5	212.0
65°	340.2	379.4	355.5	296.1	248.3	217.6	200.8	192.6	188.2	187.2	183.1
67.5°	276.9	306.7	289.4	245.6	207.9	181.4	167.2	160.2	156.9	156.5	153.4
70°	235.3	263.3	250.0	210.4	177.9	157.1	144.8	138.7	136.6	136.3	134.6
72.5°	203.0	222.6	212.0	179.0	153.9	135.0	125.9	119.5	117.2	117.7	116.5
75°	150.3	165.0	158.8	135.9	115.7	103.4	95.9	91.8	89.8	90.9	89.4
77.5°	108.2	117.4	111.9	96.0	83.6	74.7	69.2	66.7	64.8	64.7	64.1
80°	81.6	87.1	84.0	74.5	64.2	56.7	52.3	50.6	49.5	49.2	48.9
82.5°	58.1	62.8	59.1	52.6	45.7	41.1	38.6	36.4	35.6	35.8	35.5
85°	29.3	31.1	29.7	25.6	22.9	20.9	19.4	18.5	17.7	18.1	17.4
87.5°	13.4	13.1	11.8	10.3	9.3	8.1	7.7	6.8	6.6	7.0	7.1
90°	16.2	13.6	11.1	8.8	6.9	4.8	2.9	0.9	2.9	4.8	6.9
92.5°	31.2	29.8	28.4	26.9	25.6	24.3	22.9	21.6	22.9	24.3	25.6
95°	62.7	61.1	59.6	58.1	56.7	55.3	53.9	52.5	53.9	55.3	56.7
97.5°	100.8	99.6	98.4	97.4	96.4	95.3	94.3	93.3	94.3	95.3	96.4
100°	128.9	127.9	126.9	125.8	124.6	123.4	122.3	121.1	122.3	123.4	124.6
102.5°	159.5	158.3	156.9	156.0	155.2	154.5	153.8	153.1	153.8	154.5	155.2
105°	206.5	204.7	203.0	201.9	201.4	201.1	200.6	200.3	200.6	201.1	201.4
107.5°	258.0	257.3	256.5	256.1	255.8	255.6	255.4	255.1	255.4	255.6	255.8
110°	292.0	291.7	291.2	290.9	290.4	290.1	289.7	289.3	289.7	290.1	290.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	326.2	326.1	326.0	325.8	325.6	325.4	325.1	324.9	325.1	325.4	325.6
115°	380.0	380.4	380.8	380.7	380.0	379.5	378.9	378.3	378.9	379.5	380.0
117.5°	432.6	433.1	433.5	433.6	433.3	432.8	432.5	432.0	432.5	432.8	433.3
120°	468.4	469.4	470.4	470.3	469.1	467.9	466.7	465.6	466.7	467.9	469.1
122.5°	503.0	503.5	504.1	503.9	503.0	502.1	501.3	500.4	501.3	502.1	503.0
125°	555.4	555.7	556.2	556.0	555.4	554.8	554.3	553.7	554.3	554.8	555.4
127.5°	607.4	607.8	608.2	607.9	606.5	605.3	604.0	602.8	604.0	605.3	606.5
130°	641.1	641.8	642.4	641.9	640.2	638.7	637.1	635.5	637.1	638.7	640.2
132.5°	674.3	674.8	675.2	674.7	673.1	671.5	669.9	668.3	669.9	671.5	673.1
135°	723.2	723.4	723.5	723.1	721.8	720.7	719.5	718.4	719.5	720.7	721.8
137.5°	770.3	769.8	769.3	768.6	767.6	766.6	765.6	764.6	765.6	766.6	767.6
140°	801.6	801.4	801.2	800.6	799.6	798.6	797.6	796.7	797.6	798.6	799.6
142.5°	831.2	830.8	830.5	829.8	828.8	827.9	826.8	825.8	826.8	827.9	828.8
145°	874.7	874.1	873.5	873.0	872.6	872.2	871.8	871.4	871.8	872.2	872.6
147.5°	915.9	915.3	914.8	914.2	913.5	912.8	912.0	911.3	912.0	912.8	913.5
150°	941.8	941.5	941.0	940.7	940.2	939.9	939.5	939.1	939.5	939.9	940.2
152.5°	964.9	964.7	964.5	964.0	963.5	963.0	962.4	961.9	962.4	963.0	963.5
155°	998.3	998.1	997.9	997.8	997.8	997.8	997.8	997.8	997.8	997.8	997.8
157.5°	1027.8	1027.6	1027.4	1027.5	1027.7	1028.0	1028.2	1028.4	1028.2	1028.0	1027.7
160°	1045.9	1045.9	1045.9	1046.1	1046.5	1046.9	1047.2	1047.7	1047.2	1046.9	1046.5
162.5°	1062.7	1062.5	1062.4	1062.6	1063.1	1063.6	1064.2	1064.8	1064.2	1063.6	1063.1
165°	1084.1	1084.1	1084.1	1084.5	1085.0	1085.7	1086.2	1086.8	1086.2	1085.7	1085.0
167.5°	1101.3	1101.2	1101.0	1101.3	1102.1	1102.9	1103.7	1104.5	1103.7	1102.9	1102.1
170°	1110.9	1110.9	1110.9	1111.3	1112.1	1112.9	1113.7	1114.5	1113.7	1112.9	1112.1
172.5°	1118.7	1118.7	1118.7	1119.1	1119.9	1120.7	1121.5	1122.2	1121.5	1120.7	1119.9
175°	1126.9	1126.9	1126.9	1127.3	1128.1	1128.8	1129.6	1130.4	1129.6	1128.8	1128.1
177.5°	1131.0	1131.0	1131.0	1131.3	1131.9	1132.6	1133.2	1133.8	1133.2	1132.6	1131.9
180°	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	693.1	691.3	688.5	684.4	681.1	675.9	675.9	676.7	676.7	676.5	675.9
5°	672.1	667.0	660.8	653.7	646.1	638.6	637.3	634.5	632.5	631.2	629.5
7.5°	649.9	640.9	631.9	621.9	612.7	605.1	599.9	595.5	592.6	589.7	587.5
10°	634.9	623.6	613.1	602.4	590.8	581.6	575.8	571.7	568.6	565.9	564.5
12.5°	617.2	604.2	592.5	582.5	569.8	560.3	554.7	552.9	549.2	543.5	540.5
15°	591.2	579.3	565.3	549.8	543.7	532.1	525.6	522.5	520.5	516.0	514.7
17.5°	569.0	553.3	537.6	526.1	514.7	505.3	501.7	497.8	495.2	491.5	490.4
20°	551.3	537.3	522.9	510.6	498.6	488.4	485.3	482.6	479.8	478.1	476.8
22.5°	533.2	519.2	507.3	495.8	483.0	476.4	473.0	470.0	468.1	466.9	465.6
25°	507.8	495.5	482.2	472.0	461.7	457.3	455.2	453.5	452.2	450.5	450.1
27.5°	485.2	471.8	461.0	451.4	444.1	440.3	438.4	437.6	437.8	438.5	438.8
30°	468.2	455.9	447.0	438.8	432.0	428.6	428.3	428.3	429.6	430.0	430.7
32.5°	452.6	442.6	433.6	425.7	420.5	418.2	419.5	419.5	420.6	421.5	422.8
35°	430.0	421.1	414.3	407.4	403.0	404.0	404.7	405.4	407.1	409.1	410.5
37.5°	408.3	400.6	393.5	388.2	386.1	388.0	389.6	391.0	393.1	394.6	395.9
40°	392.7	386.9	380.1	375.3	376.0	377.0	378.4	380.1	381.8	382.8	384.2
42.5°	378.3	372.2	367.0	363.0	364.0	365.3	366.1	367.0	369.0	370.9	371.7
45°	356.2	351.4	346.6	344.3	344.9	345.6	346.3	347.3	349.0	350.4	350.7
47.5°	331.4	328.1	324.9	322.5	323.6	323.3	324.2	326.5	327.0	327.8	329.7
50°	315.6	312.5	308.7	308.1	308.1	308.1	308.4	311.1	311.1	312.5	313.9
52.5°	298.1	296.1	293.7	292.5	291.9	291.9	293.4	294.7	295.2	297.2	298.5
55°	272.2	270.1	268.1	267.1	266.4	267.1	269.8	270.5	272.2	273.2	274.2
57.5°	245.2	243.6	242.0	241.5	241.3	242.2	243.7	245.8	246.2	249.3	250.8
60°	227.5	225.1	223.7	223.7	223.0	226.0	225.4	228.8	229.5	231.6	234.0
62.5°	209.1	205.9	205.4	205.4	206.3	207.2	208.2	209.7	211.5	214.1	215.9
65°	179.7	177.9	180.3	179.9	179.3	181.4	181.4	183.1	185.1	187.5	191.3
67.5°	151.7	150.8	151.1	151.1	152.0	153.2	154.2	155.7	158.1	160.7	163.1
70°	132.9	133.8	132.2	133.6	134.6	134.9	135.5	137.6	140.4	142.0	144.8
72.5°	114.6	114.5	114.7	115.2	116.3	116.9	117.5	119.8	122.9	124.3	126.5
75°	88.1	87.7	88.8	88.8	90.5	91.2	91.8	92.9	95.6	97.6	99.4
77.5°	64.4	64.7	64.6	65.7	65.3	65.4	67.5	68.5	68.8	72.9	73.7
80°	48.5	49.2	49.5	49.8	50.2	49.5	51.9	53.0	53.0	55.3	57.1
82.5°	34.9	35.2	36.1	36.5	36.6	37.2	37.5	38.2	39.0	40.0	42.3
85°	17.4	18.5	18.8	18.5	18.8	18.1	19.1	19.4	19.8	19.8	19.8
87.5°	7.2	7.9	8.2	9.0	9.2	10.0	10.2	9.8	9.9	10.9	9.9
90°	8.8	11.1	13.6	16.2	18.8	21.4	22.1	22.9	23.7	24.5	25.1
92.5°	26.9	28.4	29.8	31.2	32.7	34.2	34.8	35.5	36.1	36.7	36.9
95°	58.1	59.6	61.1	62.7	64.3	65.9	66.7	67.4	68.2	69.0	69.5
97.5°	97.4	98.4	99.6	100.8	101.9	103.1	104.0	104.9	105.8	106.7	107.1
100°	125.8	126.9	127.9	128.9	129.8	130.8	131.4	132.1	132.6	133.2	133.8
102.5°	156.0	156.9	158.3	159.5	160.9	162.2	162.7	163.4	164.0	164.5	164.8
105°	201.9	203.0	204.7	206.5	208.3	210.1	210.1	210.1	210.1	210.1	210.3
107.5°	256.1	256.5	257.3	258.0	258.7	259.4	260.0	260.6	261.3	261.9	262.1
110°	290.9	291.2	291.7	292.0	292.5	292.8	293.6	294.4	295.2	296.0	296.2



TEST NUMBER: P331938-940

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	325.8	326.0	326.1	326.2	326.3	326.3	327.3	328.2	329.1	330.1	330.6
115°	380.7	380.8	380.4	380.0	379.6	379.2	379.4	379.6	379.8	380.0	380.0
117.5°	433.6	433.5	433.1	432.6	432.0	431.5	431.5	431.4	431.4	431.4	431.1
120°	470.3	470.4	469.4	468.4	467.4	466.5	466.2	466.0	465.8	465.7	465.3
122.5°	503.9	504.1	503.5	503.0	502.6	502.0	501.5	501.0	500.5	500.0	499.4
125°	556.0	556.2	555.7	555.4	554.9	554.6	553.8	552.9	552.1	551.3	550.5
127.5°	607.9	608.2	607.8	607.4	607.0	606.5	605.4	604.3	603.2	602.1	601.1
130°	641.9	642.4	641.8	641.1	640.6	640.0	639.2	638.4	637.6	636.9	635.7
132.5°	674.7	675.2	674.8	674.3	673.9	673.4	672.5	671.5	670.7	669.7	668.7
135°	723.1	723.5	723.4	723.2	723.0	722.7	722.0	721.2	720.4	719.6	719.0
137.5°	768.6	769.3	769.8	770.3	770.9	771.3	770.5	769.7	768.9	768.0	767.2
140°	800.6	801.2	801.4	801.6	801.8	802.0	801.8	801.6	801.4	801.2	800.4
142.5°	829.8	830.5	830.8	831.2	831.5	831.9	831.7	831.5	831.3	831.1	830.5
145°	873.0	873.5	874.1	874.7	875.3	875.8	875.7	875.5	875.3	875.0	874.6
147.5°	914.2	914.8	915.3	915.9	916.4	917.0	917.0	917.0	917.0	917.0	916.4
150°	940.7	941.0	941.5	941.8	942.3	942.6	942.6	942.6	942.6	942.6	942.0
152.5°	964.0	964.5	964.7	964.9	965.2	965.5	965.7	966.1	966.3	966.7	966.3
155°	997.8	997.9	998.1	998.3	998.5	998.7	999.5	1000.3	1001.1	1001.8	1001.6
157.5°	1027.5	1027.4	1027.6	1027.8	1028.0	1028.1	1028.9	1029.7	1030.6	1031.4	1031.3
160°	1046.1	1045.9	1045.9	1045.9	1045.9	1045.9	1046.9	1047.8	1048.8	1049.8	1049.9
162.5°	1062.6	1062.4	1062.5	1062.7	1062.8	1063.0	1064.0	1065.0	1066.0	1066.9	1066.8
165°	1084.5	1084.1	1084.1	1084.1	1084.1	1084.1	1085.3	1086.5	1087.7	1088.9	1088.8
167.5°	1101.3	1101.0	1101.2	1101.3	1101.4	1101.6	1102.9	1104.0	1105.3	1106.5	1106.5
170°	1111.3	1110.9	1110.9	1110.9	1110.9	1110.9	1112.2	1113.7	1115.0	1116.4	1116.4
172.5°	1119.1	1118.7	1118.7	1118.7	1118.7	1118.7	1119.9	1121.1	1122.4	1123.6	1123.6
175°	1127.3	1126.9	1126.9	1126.9	1126.9	1126.9	1128.1	1129.3	1130.4	1131.7	1131.5
177.5°	1131.3	1131.0	1131.0	1131.0	1131.0	1131.0	1131.9	1132.9	1133.8	1134.8	1134.7
180°	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	674.0	673.8	675.6	674.3	675.6	673.8	674.0	675.9	676.5	676.7	676.7
5°	627.4	628.4	625.0	625.0	625.0	628.4	627.4	629.5	631.2	632.5	634.5
7.5°	585.9	584.3	584.5	582.6	584.5	584.3	585.9	587.5	589.7	592.6	595.5
10°	560.4	558.4	557.7	558.0	557.7	558.4	560.4	564.5	565.9	568.6	571.7
12.5°	539.4	539.0	534.5	534.6	534.5	539.0	539.4	540.5	543.5	549.2	552.9
15°	514.7	508.2	507.5	509.5	507.5	508.2	514.7	514.7	516.0	520.5	522.5
17.5°	489.9	486.4	486.7	485.6	486.7	486.4	489.9	490.4	491.5	495.2	497.8
20°	476.8	474.7	474.4	472.0	474.4	474.7	476.8	476.8	478.1	479.8	482.6
22.5°	464.8	464.0	464.2	461.6	464.2	464.0	464.8	465.6	466.9	468.1	470.0
25°	449.8	451.5	450.1	450.1	450.1	451.5	449.8	450.1	450.5	452.2	453.5
27.5°	439.7	439.6	438.9	438.9	438.9	439.6	439.7	438.8	438.5	437.8	437.6
30°	432.0	431.7	432.4	432.4	432.4	431.7	432.0	430.7	430.0	429.6	428.3
32.5°	424.4	424.8	425.0	425.3	425.0	424.8	424.4	422.8	421.5	420.6	419.5
35°	412.6	412.9	413.9	413.2	413.9	412.9	412.6	410.5	409.1	407.1	405.4
37.5°	396.5	398.1	397.8	398.3	397.8	398.1	396.5	395.9	394.6	393.1	391.0
40°	384.6	385.6	385.2	385.2	385.2	385.6	384.6	384.2	382.8	381.8	380.1
42.5°	372.3	373.0	372.1	371.6	372.1	373.0	372.3	371.7	370.9	369.0	367.0
45°	352.1	351.4	352.5	351.1	352.5	351.4	352.1	350.7	350.4	349.0	347.3
47.5°	329.6	330.3	330.6	331.5	330.6	330.3	329.6	329.7	327.8	327.0	326.5
50°	314.5	316.6	316.6	316.3	316.6	316.6	314.5	313.9	312.5	311.1	311.1
52.5°	299.8	300.8	302.1	302.0	302.1	300.8	299.8	298.5	297.2	295.2	294.7
55°	277.0	277.7	278.3	278.7	278.3	277.7	277.0	274.2	273.2	272.2	270.5
57.5°	253.3	253.1	254.7	255.2	254.7	253.1	253.3	250.8	249.3	246.2	245.8
60°	236.7	236.7	239.4	240.4	239.4	236.7	236.7	234.0	231.6	229.5	228.8
62.5°	218.9	220.0	222.7	221.3	222.7	220.0	218.9	215.9	214.1	211.5	209.7
65°	193.0	195.7	195.4	196.7	195.4	195.7	193.0	191.3	187.5	185.1	183.1
67.5°	165.9	167.6	170.0	170.2	170.0	167.6	165.9	163.1	160.7	158.1	155.7
70°	147.6	149.3	150.6	151.6	150.6	149.3	147.6	144.8	142.0	140.4	137.6
72.5°	129.7	130.6	133.9	132.5	133.9	130.6	129.7	126.5	124.3	122.9	119.8
75°	101.7	104.2	106.2	105.2	106.2	104.2	101.7	99.4	97.6	95.6	92.9
77.5°	75.3	77.7	78.6	77.8	78.6	77.7	75.3	73.7	72.9	68.8	68.5
80°	59.4	59.1	61.2	60.8	61.2	59.1	59.4	57.1	55.3	53.0	53.0
82.5°	43.6	43.2	44.2	44.4	44.2	43.2	43.6	42.3	40.0	39.0	38.2
85°	21.1	22.2	20.9	20.5	20.9	22.2	21.1	19.8	19.8	19.8	19.4
87.5°	10.0	10.1	9.9	9.7	9.9	10.1	10.0	9.9	10.9	9.9	9.8
90°	25.5	25.9	26.3	26.7	26.3	25.9	25.5	25.1	24.5	23.7	22.9
92.5°	36.6	36.5	36.2	35.9	36.2	36.5	36.6	36.9	36.7	36.1	35.5
95°	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.0	68.2	67.4
97.5°	107.1	107.0	106.9	106.8	106.9	107.0	107.1	107.1	106.7	105.8	104.9
100°	134.1	134.5	134.9	135.3	134.9	134.5	134.1	133.8	133.2	132.6	132.1
102.5°	164.7	164.6	164.6	164.5	164.6	164.6	164.7	164.8	164.5	164.0	163.4
105°	210.6	211.1	211.4	211.9	211.4	211.1	210.6	210.3	210.1	210.1	210.1
107.5°	261.9	261.6	261.4	261.2	261.4	261.6	261.9	262.1	261.9	261.3	260.6
110°	295.8	295.4	295.1	294.6	295.1	295.4	295.8	296.2	296.0	295.2	294.4



TEST NUMBER: P331938-940

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	330.5	330.4	330.3	330.2	330.3	330.4	330.5	330.6	330.1	329.1	328.2
115°	379.8	379.6	379.4	379.2	379.4	379.6	379.8	380.0	380.0	379.8	379.6
117.5°	430.5	430.0	429.4	428.8	429.4	430.0	430.5	431.1	431.4	431.4	431.4
120°	464.9	464.6	464.1	463.8	464.1	464.6	464.9	465.3	465.7	465.8	466.0
122.5°	498.9	498.3	497.8	497.2	497.8	498.3	498.9	499.4	500.0	500.5	501.0
125°	549.8	549.0	548.2	547.4	548.2	549.0	549.8	550.5	551.3	552.1	552.9
127.5°	600.2	599.2	598.3	597.4	598.3	599.2	600.2	601.1	602.1	603.2	604.3
130°	634.4	632.9	631.6	630.2	631.6	632.9	634.4	635.7	636.9	637.6	638.4
132.5°	667.6	666.6	665.5	664.4	665.5	666.6	667.6	668.7	669.7	670.7	671.5
135°	718.6	718.2	717.8	717.5	717.8	718.2	718.6	719.0	719.6	720.4	721.2
137.5°	766.5	765.7	765.0	764.3	765.0	765.7	766.5	767.2	768.0	768.9	769.7
140°	799.1	797.6	796.3	794.9	796.3	797.6	799.1	800.4	801.2	801.4	801.6
142.5°	829.4	828.3	827.2	826.2	827.2	828.3	829.4	830.5	831.1	831.3	831.5
145°	873.8	873.0	872.2	871.4	872.2	873.0	873.8	874.6	875.0	875.3	875.5
147.5°	915.3	914.0	912.8	911.7	912.8	914.0	915.3	916.4	917.0	917.0	917.0
150°	940.8	939.7	938.4	937.3	938.4	939.7	940.8	942.0	942.6	942.6	942.6
152.5°	965.3	964.3	963.2	962.2	963.2	964.3	965.3	966.3	966.7	966.3	966.1
155°	1000.2	998.8	997.4	996.0	997.4	998.8	1000.2	1001.6	1001.8	1001.1	1000.3
157.5°	1030.2	1029.0	1028.0	1026.8	1028.0	1029.0	1030.2	1031.3	1031.4	1030.6	1029.7
160°	1049.2	1048.4	1047.6	1046.8	1047.6	1048.4	1049.2	1049.9	1049.8	1048.8	1047.8
162.5°	1065.5	1064.3	1063.0	1061.8	1063.0	1064.3	1065.5	1066.8	1066.9	1066.0	1065.0
165°	1087.4	1086.0	1084.7	1083.3	1084.7	1086.0	1087.4	1088.8	1088.9	1087.7	1086.5
167.5°	1105.3	1104.0	1102.9	1101.6	1102.9	1104.0	1105.3	1106.5	1106.5	1105.3	1104.0
170°	1115.0	1113.7	1112.2	1110.9	1112.2	1113.7	1115.0	1116.4	1116.4	1115.0	1113.7
172.5°	1122.1	1120.8	1119.4	1117.9	1119.4	1120.8	1122.1	1123.6	1123.6	1122.4	1121.1
175°	1130.2	1128.7	1127.4	1126.0	1127.4	1128.7	1130.2	1131.5	1131.7	1130.4	1129.3
177.5°	1133.6	1132.5	1131.4	1130.2	1131.4	1132.5	1133.6	1134.7	1134.8	1133.8	1132.9
180°	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	675.9	675.9	681.1	684.4	688.5	691.3	693.1	695.1	698.3	702.8	707.7
5°	637.3	638.6	646.1	653.7	660.8	667.0	672.1	678.2	685.8	695.0	705.3
7.5°	599.9	605.1	612.7	621.9	631.9	640.9	649.9	660.0	670.6	684.2	698.6
10°	575.8	581.6	590.8	602.4	613.1	623.6	634.9	645.8	659.2	675.2	693.7
12.5°	554.7	560.3	569.8	582.5	592.5	604.2	617.2	631.3	646.3	665.7	686.5
15°	525.6	532.1	543.7	549.8	565.3	579.3	591.2	611.6	630.8	650.6	674.8
17.5°	501.7	505.3	514.7	526.1	537.6	553.3	569.0	586.0	605.1	629.4	659.7
20°	485.3	488.4	498.6	510.6	522.9	537.3	551.3	568.3	589.8	615.5	648.2
22.5°	473.0	476.4	483.0	495.8	507.3	519.2	533.2	553.6	576.4	601.5	637.0
25°	455.2	457.3	461.7	472.0	482.2	495.5	507.8	527.0	550.5	579.9	615.5
27.5°	438.4	440.3	444.1	451.4	461.0	471.8	485.2	501.4	525.3	557.2	594.9
30°	428.3	428.6	432.0	438.8	447.0	455.9	468.2	486.7	509.2	541.6	581.3
32.5°	419.5	418.2	420.5	425.7	433.6	442.6	452.6	470.8	492.6	524.4	565.2
35°	404.7	404.0	403.0	407.4	414.3	421.1	430.0	443.6	468.2	497.9	540.6
37.5°	389.6	388.0	386.1	388.2	393.5	400.6	408.3	420.4	441.7	474.4	515.2
40°	378.4	377.0	376.0	375.3	380.1	386.9	392.7	404.4	424.2	455.2	495.5
42.5°	366.1	365.3	364.0	363.0	367.0	372.2	378.3	388.5	408.3	437.5	475.6
45°	346.3	345.6	344.9	344.3	346.6	351.4	356.2	363.7	380.8	409.1	443.6
47.5°	324.2	323.3	323.6	322.5	324.9	328.1	331.4	339.5	355.9	378.7	403.9
50°	308.4	308.1	308.1	308.1	308.7	312.5	315.6	321.7	336.7	359.6	377.7
52.5°	293.4	291.9	291.9	292.5	293.7	296.1	298.1	304.8	317.9	336.7	353.1
55°	269.8	267.1	266.4	267.1	268.1	270.1	272.2	277.7	288.9	302.9	312.5
57.5°	243.7	242.2	241.3	241.5	242.0	243.6	245.2	251.2	260.0	267.3	273.5
60°	225.4	226.0	223.0	223.7	223.7	225.1	227.5	231.2	238.7	243.9	250.0
62.5°	208.2	207.2	206.3	205.4	205.4	205.9	209.1	212.0	218.5	221.1	226.0
65°	181.4	181.4	179.3	179.9	180.3	177.9	179.7	183.1	187.2	188.2	192.6
67.5°	154.2	153.2	152.0	151.1	151.1	150.8	151.7	153.4	156.5	156.9	160.2
70°	135.5	134.9	134.6	133.6	132.2	133.8	132.9	134.6	136.3	136.6	138.7
72.5°	117.5	116.9	116.3	115.2	114.7	114.5	114.6	116.5	117.7	117.2	119.5
75°	91.8	91.2	90.5	88.8	88.8	87.7	88.1	89.4	90.9	89.8	91.8
77.5°	67.5	65.4	65.3	65.7	64.6	64.7	64.4	64.1	64.7	64.8	66.7
80°	51.9	49.5	50.2	49.8	49.5	49.2	48.5	48.9	49.2	49.5	50.6
82.5°	37.5	37.2	36.6	36.5	36.1	35.2	34.9	35.5	35.8	35.6	36.4
85°	19.1	18.1	18.8	18.5	18.8	18.5	17.4	17.4	18.1	17.7	18.5
87.5°	10.2	10.0	9.2	9.0	8.2	7.9	7.2	7.1	7.0	6.6	6.8
90°	22.1	21.4	18.8	16.2	13.6	11.1	8.8	6.9	4.8	2.9	0.9
92.5°	34.8	34.2	32.7	31.2	29.8	28.4	26.9	25.6	24.3	22.9	21.6
95°	66.7	65.9	64.3	62.7	61.1	59.6	58.1	56.7	55.3	53.9	52.5
97.5°	104.0	103.1	101.9	100.8	99.6	98.4	97.4	96.4	95.3	94.3	93.3
100°	131.4	130.8	129.8	128.9	127.9	126.9	125.8	124.6	123.4	122.3	121.1
102.5°	162.7	162.2	160.9	159.5	158.3	156.9	156.0	155.2	154.5	153.8	153.1
105°	210.1	210.1	208.3	206.5	204.7	203.0	201.9	201.4	201.1	200.6	200.3
107.5°	260.0	259.4	258.7	258.0	257.3	256.5	256.1	255.8	255.6	255.4	255.1
110°	293.6	292.8	292.5	292.0	291.7	291.2	290.9	290.4	290.1	289.7	289.3



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	327.3	326.3	326.3	326.2	326.1	326.0	325.8	325.6	325.4	325.1	324.9
115°	379.4	379.2	379.6	380.0	380.4	380.8	380.7	380.0	379.5	378.9	378.3
117.5°	431.5	431.5	432.0	432.6	433.1	433.5	433.6	433.3	432.8	432.5	432.0
120°	466.2	466.5	467.4	468.4	469.4	470.4	470.3	469.1	467.9	466.7	465.6
122.5°	501.5	502.0	502.6	503.0	503.5	504.1	503.9	503.0	502.1	501.3	500.4
125°	553.8	554.6	554.9	555.4	555.7	556.2	556.0	555.4	554.8	554.3	553.7
127.5°	605.4	606.5	607.0	607.4	607.8	608.2	607.9	606.5	605.3	604.0	602.8
130°	639.2	640.0	640.6	641.1	641.8	642.4	641.9	640.2	638.7	637.1	635.5
132.5°	672.5	673.4	673.9	674.3	674.8	675.2	674.7	673.1	671.5	669.9	668.3
135°	722.0	722.7	723.0	723.2	723.4	723.5	723.1	721.8	720.7	719.5	718.4
137.5°	770.5	771.3	770.9	770.3	769.8	769.3	768.6	767.6	766.6	765.6	764.6
140°	801.8	802.0	801.8	801.6	801.4	801.2	800.6	799.6	798.6	797.6	796.7
142.5°	831.7	831.9	831.5	831.2	830.8	830.5	829.8	828.8	827.9	826.8	825.8
145°	875.7	875.8	875.3	874.7	874.1	873.5	873.0	872.6	872.2	871.8	871.4
147.5°	917.0	917.0	916.4	915.9	915.3	914.8	914.2	913.5	912.8	912.0	911.3
150°	942.6	942.6	942.3	941.8	941.5	941.0	940.7	940.2	939.9	939.5	939.1
152.5°	965.7	965.5	965.2	964.9	964.7	964.5	964.0	963.5	963.0	962.4	961.9
155°	999.5	998.7	998.5	998.3	998.1	997.9	997.8	997.8	997.8	997.8	997.8
157.5°	1028.9	1028.1	1028.0	1027.8	1027.6	1027.4	1027.5	1027.7	1028.0	1028.2	1028.4
160°	1046.9	1045.9	1045.9	1045.9	1045.9	1045.9	1046.1	1046.5	1046.9	1047.2	1047.7
162.5°	1064.0	1063.0	1062.8	1062.7	1062.5	1062.4	1062.6	1063.1	1063.6	1064.2	1064.8
165°	1085.3	1084.1	1084.1	1084.1	1084.1	1084.1	1084.5	1085.0	1085.7	1086.2	1086.8
167.5°	1102.9	1101.6	1101.4	1101.3	1101.2	1101.0	1101.3	1102.1	1102.9	1103.7	1104.5
170°	1112.2	1110.9	1110.9	1110.9	1110.9	1110.9	1111.3	1112.1	1112.9	1113.7	1114.5
172.5°	1119.9	1118.7	1118.7	1118.7	1118.7	1118.7	1119.1	1119.9	1120.7	1121.5	1122.2
175°	1128.1	1126.9	1126.9	1126.9	1126.9	1126.9	1127.3	1128.1	1128.8	1129.6	1130.4
177.5°	1131.9	1131.0	1131.0	1131.0	1131.0	1131.0	1131.3	1131.9	1132.6	1133.2	1133.8
180°	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	709.3	710.6	715.2	718.5	722.4	724.6	726.7	728.4	730.6	731.1	739.0
5°	712.4	719.3	731.2	740.0	751.0	762.9	771.2	774.9	784.8	793.0	809.4
7.5°	711.5	726.0	744.1	762.9	782.9	801.5	817.6	836.7	850.3	870.8	890.9
10°	710.7	730.1	753.4	777.3	805.3	831.3	854.5	880.5	902.0	930.3	954.6
12.5°	708.3	731.8	764.0	792.3	826.3	862.1	896.5	929.9	949.0	996.1	1018.5
15°	702.1	730.1	770.4	813.5	860.3	902.7	946.4	981.1	1037.5	1078.9	1105.2
17.5°	690.5	729.8	777.6	829.5	886.4	942.2	991.7	1044.6	1104.4	1154.3	1207.6
20°	685.1	728.1	781.4	838.7	897.9	961.0	1017.4	1080.9	1146.1	1195.3	1263.6
22.5°	675.0	723.7	781.1	845.1	908.2	973.6	1039.6	1103.6	1178.9	1246.7	1311.7
25°	658.4	713.1	772.5	843.9	918.0	983.6	1062.5	1147.5	1226.1	1313.1	1378.0
27.5°	641.1	699.5	759.0	825.4	905.1	982.9	1082.2	1178.2	1274.3	1349.5	1397.5
30°	627.7	684.4	745.9	812.8	891.7	984.3	1095.3	1200.1	1293.7	1358.3	1385.2
32.5°	613.2	670.7	725.1	795.3	879.4	983.5	1103.5	1212.9	1294.8	1337.7	1332.5
35°	590.5	638.6	691.6	759.2	858.3	977.4	1108.2	1214.1	1264.3	1255.1	1185.4
37.5°	557.7	598.2	650.3	724.3	833.7	964.8	1098.7	1178.1	1174.8	1099.7	998.8
40°	537.3	571.7	621.9	699.8	814.5	956.6	1083.6	1135.2	1091.5	986.7	865.8
42.5°	510.4	542.2	592.4	672.4	793.5	940.0	1055.0	1069.9	984.4	863.7	753.0
45°	469.0	497.0	548.8	631.5	762.0	903.7	985.0	948.4	833.3	708.6	624.3
47.5°	424.3	453.4	503.4	588.3	716.3	849.1	887.8	810.1	691.9	590.8	513.4
50°	396.2	424.2	473.0	558.7	685.5	804.3	820.4	720.0	611.4	522.5	459.0
52.5°	367.7	394.1	442.1	528.2	649.3	752.3	742.4	640.2	540.3	464.6	414.7
55°	325.5	350.4	396.2	476.8	587.1	668.7	632.8	535.2	452.5	393.8	355.9
57.5°	287.7	311.6	351.0	423.8	519.7	575.8	530.2	447.9	382.2	337.0	308.7
60°	262.0	283.1	320.7	388.3	471.6	514.3	469.2	396.5	341.2	305.0	279.7
62.5°	237.6	256.1	290.9	352.2	424.6	460.5	414.9	353.3	306.2	274.1	252.6
65°	200.8	217.6	248.3	296.1	355.5	379.4	340.2	290.3	253.8	229.9	215.5
67.5°	167.2	181.4	207.9	245.6	289.4	306.7	276.9	238.3	210.7	191.5	180.1
70°	144.8	157.1	177.9	210.4	250.0	263.3	235.3	203.6	183.4	168.0	157.5
72.5°	125.9	135.0	153.9	179.0	212.0	222.6	203.0	175.1	156.3	144.8	136.4
75°	95.9	103.4	115.7	135.9	158.8	165.0	150.3	132.9	120.2	112.0	105.5
77.5°	69.2	74.7	83.6	96.0	111.9	117.4	108.2	96.5	87.3	81.8	78.1
80°	52.3	56.7	64.2	74.5	84.0	87.1	81.6	72.8	66.3	63.2	60.1
82.5°	38.6	41.1	45.7	52.6	59.1	62.8	58.1	52.8	49.3	46.5	45.4
85°	19.4	20.9	22.9	25.6	29.7	31.1	29.3	28.0	25.9	24.3	24.3
87.5°	7.7	8.1	9.3	10.3	11.8	13.1	13.4	13.3	13.6	13.5	13.4
90°	2.9	4.8	6.9	8.8	11.1	13.6	16.2	18.8	21.4	22.1	22.9
92.5°	22.9	24.3	25.6	26.9	28.4	29.8	31.2	32.7	34.2	34.8	35.5
95°	53.9	55.3	56.7	58.1	59.6	61.1	62.7	64.3	65.9	66.7	67.4
97.5°	94.3	95.3	96.4	97.4	98.4	99.6	100.8	101.9	103.1	104.0	104.9
100°	122.3	123.4	124.6	125.8	126.9	127.9	128.9	129.8	130.8	131.4	132.1
102.5°	153.8	154.5	155.2	156.0	156.9	158.3	159.5	160.9	162.2	162.7	163.4
105°	200.6	201.1	201.4	201.9	203.0	204.7	206.5	208.3	210.1	210.1	210.1
107.5°	255.4	255.6	255.8	256.1	256.5	257.3	258.0	258.7	259.4	260.0	260.6
110°	289.7	290.1	290.4	290.9	291.2	291.7	292.0	292.5	292.8	293.6	294.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	325.1	325.4	325.6	325.8	326.0	326.1	326.2	326.3	326.3	327.3	328.2
115°	378.9	379.5	380.0	380.7	380.8	380.4	380.0	379.6	379.2	379.4	379.6
117.5°	432.5	432.8	433.3	433.6	433.5	433.1	432.6	432.0	431.5	431.5	431.4
120°	466.7	467.9	469.1	470.3	470.4	469.4	468.4	467.4	466.5	466.2	466.0
122.5°	501.3	502.1	503.0	503.9	504.1	503.5	503.0	502.6	502.0	501.5	501.0
125°	554.3	554.8	555.4	556.0	556.2	555.7	555.4	554.9	554.6	553.8	552.9
127.5°	604.0	605.3	606.5	607.9	608.2	607.8	607.4	607.0	606.5	605.4	604.3
130°	637.1	638.7	640.2	641.9	642.4	641.8	641.1	640.6	640.0	639.2	638.4
132.5°	669.9	671.5	673.1	674.7	675.2	674.8	674.3	673.9	673.4	672.5	671.5
135°	719.5	720.7	721.8	723.1	723.5	723.4	723.2	723.0	722.7	722.0	721.2
137.5°	765.6	766.6	767.6	768.6	769.3	769.8	770.3	770.9	771.3	770.5	769.7
140°	797.6	798.6	799.6	800.6	801.2	801.4	801.6	801.8	802.0	801.8	801.6
142.5°	826.8	827.9	828.8	829.8	830.5	830.8	831.2	831.5	831.9	831.7	831.5
145°	871.8	872.2	872.6	873.0	873.5	874.1	874.7	875.3	875.8	875.7	875.5
147.5°	912.0	912.8	913.5	914.2	914.8	915.3	915.9	916.4	917.0	917.0	917.0
150°	939.5	939.9	940.2	940.7	941.0	941.5	941.8	942.3	942.6	942.6	942.6
152.5°	962.4	963.0	963.5	964.0	964.5	964.7	964.9	965.2	965.5	965.7	966.1
155°	997.8	997.8	997.8	997.8	997.9	998.1	998.3	998.5	998.7	999.5	1000.3
157.5°	1028.2	1028.0	1027.7	1027.5	1027.4	1027.6	1027.8	1028.0	1028.1	1028.9	1029.7
160°	1047.2	1046.9	1046.5	1046.1	1045.9	1045.9	1045.9	1045.9	1045.9	1046.9	1047.8
162.5°	1064.2	1063.6	1063.1	1062.6	1062.4	1062.5	1062.7	1062.8	1063.0	1064.0	1065.0
165°	1086.2	1085.7	1085.0	1084.5	1084.1	1084.1	1084.1	1084.1	1084.1	1085.3	1086.5
167.5°	1103.7	1102.9	1102.1	1101.3	1101.0	1101.2	1101.3	1101.4	1101.6	1102.9	1104.0
170°	1113.7	1112.9	1112.1	1111.3	1110.9	1110.9	1110.9	1110.9	1110.9	1112.2	1113.7
172.5°	1121.5	1120.7	1119.9	1119.1	1118.7	1118.7	1118.7	1118.7	1118.7	1119.9	1121.1
175°	1129.6	1128.8	1128.1	1127.3	1126.9	1126.9	1126.9	1126.9	1126.9	1128.1	1129.3
177.5°	1133.2	1132.6	1131.9	1131.3	1131.0	1131.0	1131.0	1131.0	1131.0	1131.9	1132.9
180°	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	741.8	742.1	745.0	747.3	746.2	747.5	748.1
5°	810.4	822.7	829.2	834.0	834.4	834.6	837.4
7.5°	907.8	921.0	930.6	945.2	949.6	954.6	953.1
10°	978.8	998.3	1015.0	1023.9	1033.4	1047.4	1036.2
12.5°	1045.2	1079.7	1105.2	1118.9	1128.0	1130.8	1125.2
15°	1154.7	1199.8	1224.1	1223.3	1254.1	1267.4	1246.5
17.5°	1255.1	1296.7	1330.0	1347.1	1372.7	1378.4	1375.8
20°	1316.5	1362.0	1387.9	1417.3	1430.7	1442.6	1444.7
22.5°	1369.6	1410.3	1438.2	1462.7	1473.8	1479.4	1482.9
25°	1424.2	1456.3	1473.0	1481.5	1484.6	1483.9	1479.4
27.5°	1420.4	1422.8	1404.4	1386.3	1370.1	1351.8	1345.6
30°	1383.5	1354.8	1303.6	1274.5	1231.9	1198.0	1211.7
32.5°	1286.5	1229.4	1171.9	1108.4	1055.9	1041.0	1025.9
35°	1098.0	997.6	938.9	870.6	843.2	815.9	797.1
37.5°	888.3	810.7	740.9	696.2	668.9	651.7	642.3
40°	768.1	698.0	640.7	604.5	583.6	564.2	561.4
42.5°	672.2	607.1	563.9	535.1	515.1	506.8	500.8
45°	550.5	505.1	476.1	455.6	442.3	437.1	430.3
47.5°	466.0	433.9	412.1	398.1	388.1	384.2	383.7
50°	418.7	392.1	376.0	365.1	357.2	355.9	350.4
52.5°	383.2	360.1	347.6	338.0	332.3	328.5	326.9
55°	332.6	317.3	306.0	300.5	296.1	292.3	292.3
57.5°	291.1	278.2	270.7	266.1	264.7	262.1	260.4
60°	265.4	254.4	248.6	244.5	241.8	242.1	239.1
62.5°	240.2	233.1	227.6	223.5	220.3	220.3	220.5
65°	204.6	199.1	195.0	193.7	191.6	189.2	189.8
67.5°	173.3	168.3	165.1	162.7	162.0	160.7	162.7
70°	151.0	147.2	144.8	142.8	142.0	142.4	144.1
72.5°	130.5	127.8	126.3	125.3	123.8	123.9	125.0
75°	102.5	100.4	99.1	98.0	97.6	97.6	97.6
77.5°	75.3	74.8	74.2	72.7	72.8	73.1	73.2
80°	59.4	58.4	58.1	57.3	56.4	55.6	57.3
82.5°	44.4	43.3	43.1	42.9	41.3	41.2	42.6
85°	23.9	22.9	23.2	22.9	22.9	22.6	22.6
87.5°	13.2	13.1	12.9	13.3	13.1	12.9	13.6
90°	23.7	24.5	25.1	25.5	25.9	26.3	26.7
92.5°	36.1	36.7	36.9	36.6	36.5	36.2	35.9
95°	68.2	69.0	69.5	69.5	69.5	69.5	69.5
97.5°	105.8	106.7	107.1	107.1	107.0	106.9	106.8
100°	132.6	133.2	133.8	134.1	134.5	134.9	135.3
102.5°	164.0	164.5	164.8	164.7	164.6	164.6	164.5
105°	210.1	210.1	210.3	210.6	211.1	211.4	211.9
107.5°	261.3	261.9	262.1	261.9	261.6	261.4	261.2
110°	295.2	296.0	296.2	295.8	295.4	295.1	294.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	329.1	330.1	330.6	330.5	330.4	330.3	330.2
115°	379.8	380.0	380.0	379.8	379.6	379.4	379.2
117.5°	431.4	431.4	431.1	430.5	430.0	429.4	428.8
120°	465.8	465.7	465.3	464.9	464.6	464.1	463.8
122.5°	500.5	500.0	499.4	498.9	498.3	497.8	497.2
125°	552.1	551.3	550.5	549.8	549.0	548.2	547.4
127.5°	603.2	602.1	601.1	600.2	599.2	598.3	597.4
130°	637.6	636.9	635.7	634.4	632.9	631.6	630.2
132.5°	670.7	669.7	668.7	667.6	666.6	665.5	664.4
135°	720.4	719.6	719.0	718.6	718.2	717.8	717.5
137.5°	768.9	768.0	767.2	766.5	765.7	765.0	764.3
140°	801.4	801.2	800.4	799.1	797.6	796.3	794.9
142.5°	831.3	831.1	830.5	829.4	828.3	827.2	826.2
145°	875.3	875.0	874.6	873.8	873.0	872.2	871.4
147.5°	917.0	917.0	916.4	915.3	914.0	912.8	911.7
150°	942.6	942.6	942.0	940.8	939.7	938.4	937.3
152.5°	966.3	966.7	966.3	965.3	964.3	963.2	962.2
155°	1001.1	1001.8	1001.6	1000.2	998.8	997.4	996.0
157.5°	1030.6	1031.4	1031.3	1030.2	1029.0	1028.0	1026.8
160°	1048.8	1049.8	1049.9	1049.2	1048.4	1047.6	1046.8
162.5°	1066.0	1066.9	1066.8	1065.5	1064.3	1063.0	1061.8
165°	1087.7	1088.9	1088.8	1087.4	1086.0	1084.7	1083.3
167.5°	1105.3	1106.5	1106.5	1105.3	1104.0	1102.9	1101.6
170°	1115.0	1116.4	1116.4	1115.0	1113.7	1112.2	1110.9
172.5°	1122.4	1123.6	1123.6	1122.1	1120.8	1119.4	1117.9
175°	1130.4	1131.7	1131.5	1130.2	1128.7	1127.4	1126.0
177.5°	1133.8	1134.8	1134.7	1133.6	1132.5	1131.4	1130.2
180°	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1

(END OF REPORT)