

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: P331937-927

Luminaire Tested: **S123DIP-S560D1025U927-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331937-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIP-S560D1025U927-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1025 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5138.7 lumens
Efficiency: N/A
Efficacy: 115.5 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

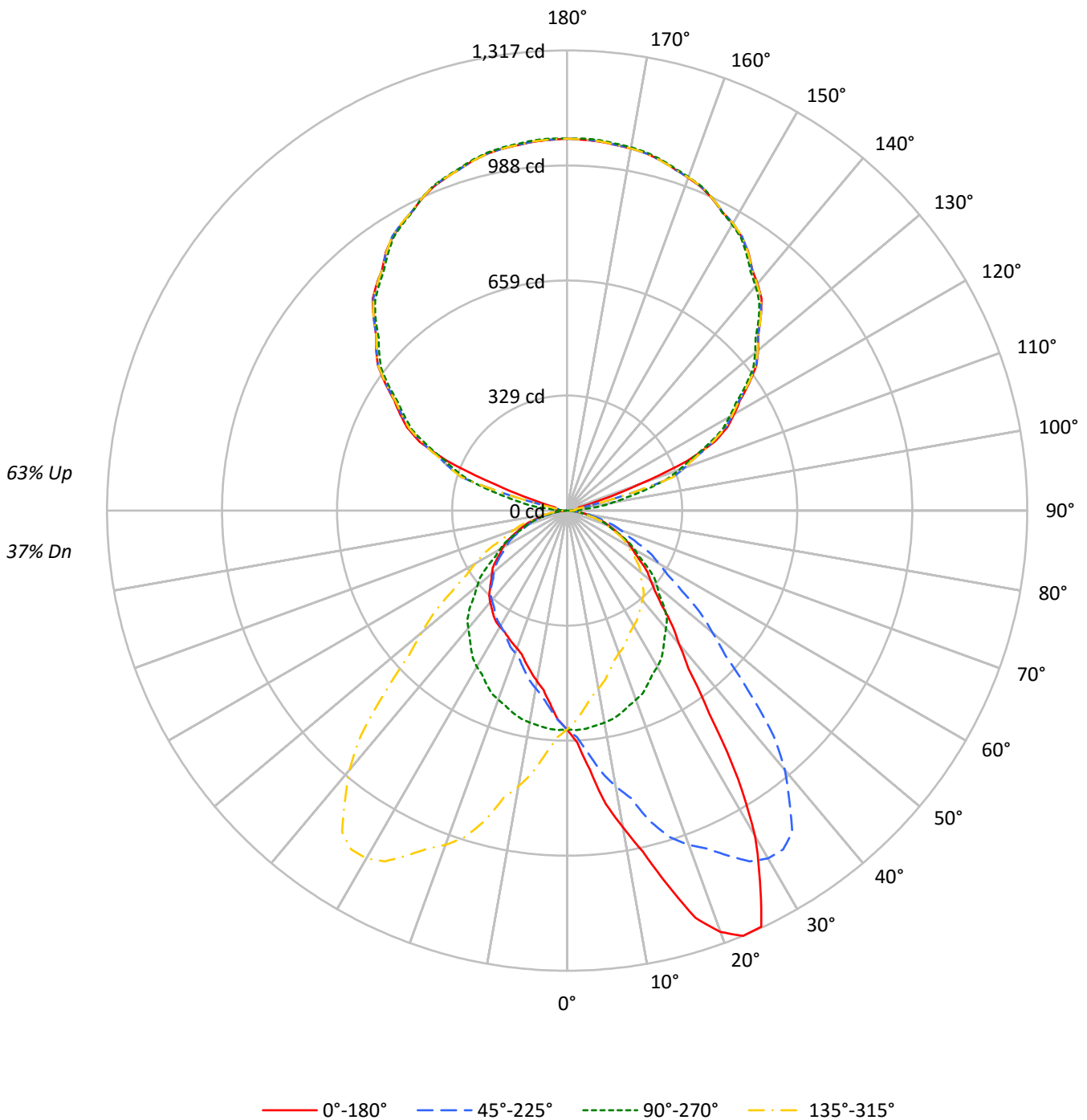
Input Watts (W): 44.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	31		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°	27.3	0.5
90°-100°	38.7	0.8
100°-110°	184.4	3.6
110°-120°	443.0	8.6
120°-130°	564.1	11.0
130°-140°	602.7	11.7
140°-150°	563.6	11.0
150°-160°	454.6	8.8
160°-170°	293.4	5.7
170°-180°	101.1	2.0
0°-30°	591.5	11.5
0°-40°	967.4	18.8
0°-60°	1576.5	30.7
0°-90°	1893.1	36.8
90°-120°	666.1	13.0
90°-150°	2396.5	46.6
90°-180°	3246.0	63.2
0°-180°	5138.7	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°	24	1	24	1	24	12
95°	30	48	30	48	30	25
105°	35	236	35	236	35	79
115°	465	442	465	442	465	430
125°	636	623	636	623	636	568
135°	784	776	784	776	784	604
145°	904	895	904	895	904	564
155°	984	986	984	986	984	454
165°	1037	1040	1037	1040	1037	293
175°	1060	1064	1060	1064	1060	101
180°	1064	1064	1064	1064	1064	



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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°	12.0	11.5	11.6	11.8	11.5	11.6	11.7	11.9	12.0	12.0	11.8
90°	23.7	23.4	23.1	22.7	22.3	21.8	21.1	20.4	19.6	19.0	16.7
92.5°	26.2	26.1	25.8	25.6	25.4	24.7	23.6	22.5	21.4	20.3	18.5
95°	30.0	30.0	30.0	30.0	30.0	29.5	28.2	26.9	25.7	24.5	22.6
97.5°	32.6	32.4	32.2	32.1	31.8	31.1	29.7	28.3	26.9	25.4	38.1
100°	33.2	33.0	32.9	32.7	32.5	31.7	30.3	28.9	27.5	26.1	53.5
102.5°	33.8	33.5	33.2	32.9	32.6	34.6	39.0	43.3	47.7	52.0	82.0
105°	34.8	34.5	34.1	33.7	33.4	48.8	79.9	111.0	142.0	173.2	189.0
107.5°	109.2	132.7	156.1	179.6	203.0	226.2	249.0	271.8	294.6	317.4	314.9
110°	217.5	242.6	267.7	292.8	318.0	333.4	339.2	345.0	350.8	356.6	354.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	373.0	378.3	383.7	389.0	394.3	396.9	396.8	396.6	396.6	396.5	394.5
115°	464.9	464.2	463.5	462.8	462.2	460.9	459.1	457.4	455.7	453.8	452.3
117.5°	516.5	516.3	516.2	516.1	515.9	515.2	513.7	512.4	511.0	509.5	508.7
120°	551.9	551.9	551.9	551.9	551.9	551.2	549.8	548.4	547.0	545.6	545.1
122.5°	586.7	586.5	586.5	586.3	586.1	585.6	584.6	583.6	582.7	581.6	581.0
125°	635.7	635.4	635.0	634.7	634.3	634.0	633.6	633.3	633.0	632.6	631.8
127.5°	682.9	683.2	683.6	683.9	684.3	684.1	683.6	683.0	682.5	681.9	681.0
130°	713.2	713.6	713.9	714.3	714.6	714.5	713.8	713.0	712.3	711.6	710.9
132.5°	741.1	741.6	742.0	742.5	743.0	742.9	742.2	741.5	740.8	740.1	739.6
135°	783.6	784.1	784.7	785.2	785.7	785.7	785.2	784.7	784.1	783.6	782.9
137.5°	823.6	823.9	824.3	824.7	825.0	824.7	823.9	823.1	822.2	821.4	821.0
140°	847.6	848.0	848.3	848.7	849.1	848.9	848.2	847.5	846.8	846.1	845.6
142.5°	869.8	870.3	870.8	871.2	871.7	871.7	871.2	870.6	870.1	869.5	868.9
145°	903.8	903.8	903.8	903.8	903.8	903.6	903.2	902.9	902.5	902.2	901.8
147.5°	929.1	929.9	930.7	931.5	932.3	932.6	932.2	931.8	931.5	931.1	930.8
150°	948.1	948.6	949.1	949.7	950.1	950.3	949.9	949.6	949.2	948.9	948.5
152.5°	963.2	964.1	964.9	965.7	966.5	966.5	965.9	965.3	964.6	964.0	963.8
155°	984.4	985.5	986.6	987.6	988.6	988.7	987.9	987.0	986.1	985.2	985.1
157.5°	1002.3	1003.7	1005.0	1006.4	1007.8	1008.0	1006.9	1005.8	1004.8	1003.7	1003.9
160°	1013.7	1014.9	1016.1	1017.4	1018.6	1018.7	1017.6	1016.6	1015.6	1014.5	1014.6
162.5°	1024.5	1025.6	1026.6	1027.7	1028.8	1028.7	1027.5	1026.4	1025.2	1024.0	1024.1
165°	1037.4	1038.6	1039.9	1041.1	1042.4	1042.3	1040.8	1039.4	1038.0	1036.6	1036.8
167.5°	1046.7	1048.1	1049.6	1051.0	1052.3	1052.3	1051.0	1049.6	1048.1	1046.7	1046.7
170°	1052.4	1053.8	1055.3	1056.7	1058.0	1058.0	1056.7	1055.3	1053.8	1052.4	1052.4
172.5°	1055.6	1057.2	1058.7	1060.3	1061.8	1061.8	1060.4	1059.1	1057.6	1056.2	1056.1
175°	1060.3	1061.8	1063.2	1064.5	1066.0	1066.0	1064.9	1063.6	1062.4	1061.1	1061.0
177.5°	1061.8	1063.2	1064.6	1066.0	1067.4	1067.5	1066.4	1065.2	1064.1	1063.0	1062.9
180°	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3



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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°	11.9	11.6	10.5	9.1	8.2	7.2	6.8	6.0	5.9	6.2	6.3
90°	14.4	12.1	9.8	7.8	6.1	4.3	2.5	0.8	2.5	4.3	6.1
92.5°	16.8	15.1	13.4	12.8	13.2	13.7	14.2	14.7	14.2	13.7	13.2
95°	20.7	18.7	16.8	19.4	26.6	33.8	41.0	48.2	41.0	33.8	26.6
97.5°	50.8	63.5	76.0	84.0	87.2	90.5	93.7	97.0	93.7	90.5	87.2
100°	80.9	108.3	135.7	147.7	144.2	140.7	137.1	133.6	137.1	140.7	144.2
102.5°	111.9	141.9	171.8	185.5	183.0	180.5	177.9	175.4	177.9	180.5	183.0
105°	204.8	220.6	236.4	243.4	241.5	239.5	237.6	235.6	237.6	239.5	241.5
107.5°	312.4	309.9	307.4	305.4	303.9	302.3	300.8	299.2	300.8	302.3	303.9
110°	352.8	350.8	348.9	347.2	345.8	344.4	343.0	341.6	343.0	344.4	345.8



TEST NUMBER: P331937-927

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	392.6	390.7	388.7	387.1	385.9	384.6	383.3	382.1	383.3	384.6	385.9
115°	450.7	449.1	447.6	446.2	445.2	444.1	443.1	442.0	443.1	444.1	445.2
117.5°	507.9	507.1	506.3	505.3	504.0	502.6	501.4	500.0	501.4	502.6	504.0
120°	544.5	544.0	543.5	542.4	540.8	539.2	537.7	536.1	537.7	539.2	540.8
122.5°	580.4	579.6	579.0	578.0	576.7	575.4	574.1	572.8	574.1	575.4	576.7
125°	631.1	630.5	629.8	628.7	627.3	625.9	624.5	623.1	624.5	625.9	627.3
127.5°	680.2	679.4	678.5	677.4	676.0	674.6	673.2	671.8	673.2	674.6	676.0
130°	710.3	709.6	708.8	707.8	706.4	705.0	703.5	702.2	703.5	705.0	706.4
132.5°	738.9	738.4	737.8	736.9	735.5	734.0	732.7	731.3	732.7	734.0	735.5
135°	782.2	781.5	780.8	779.9	778.9	777.8	776.7	775.7	776.7	777.8	778.9
137.5°	820.6	820.2	819.8	819.0	817.7	816.3	815.0	813.7	815.0	816.3	817.7
140°	845.0	844.5	844.0	843.2	842.1	841.1	840.0	838.9	840.0	841.1	842.1
142.5°	868.4	867.9	867.4	866.6	865.5	864.4	863.4	862.4	863.4	864.4	865.5
145°	901.5	901.2	900.8	900.0	898.8	897.5	896.4	895.1	896.4	897.5	898.8
147.5°	930.4	930.1	929.7	929.2	928.4	927.6	926.8	925.9	926.8	927.6	928.4
150°	948.2	947.8	947.5	947.0	946.5	945.9	945.5	944.9	945.5	945.9	946.5
152.5°	963.6	963.4	963.2	963.0	962.7	962.5	962.3	961.9	962.3	962.5	962.7
155°	984.8	984.7	984.5	984.6	985.0	985.3	985.6	986.0	985.6	985.3	985.0
157.5°	1004.1	1004.2	1004.4	1004.6	1004.6	1004.6	1004.6	1004.6	1004.6	1004.6	1004.6
160°	1014.9	1015.0	1015.2	1015.3	1015.6	1015.7	1015.9	1016.1	1015.9	1015.7	1015.6
162.5°	1024.3	1024.5	1024.7	1025.0	1025.5	1025.9	1026.4	1026.8	1026.4	1025.9	1025.5
165°	1037.0	1037.1	1037.4	1037.7	1038.2	1038.7	1039.3	1039.8	1039.3	1038.7	1038.2
167.5°	1046.7	1046.7	1046.7	1047.1	1047.8	1048.5	1049.2	1049.9	1049.2	1048.5	1047.8
170°	1052.4	1052.4	1052.4	1052.8	1053.5	1054.2	1054.9	1055.6	1054.9	1054.2	1053.5
172.5°	1056.0	1055.8	1055.7	1056.1	1056.9	1057.7	1058.6	1059.4	1058.6	1057.7	1056.9
175°	1060.8	1060.6	1060.4	1060.8	1061.7	1062.6	1063.4	1064.3	1063.4	1062.6	1061.7
177.5°	1062.8	1062.6	1062.5	1062.8	1063.4	1064.1	1064.9	1065.6	1064.9	1064.1	1063.4
180°	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3



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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°	6.4	7.1	7.3	8.0	8.2	8.9	9.0	8.7	8.8	9.7	8.8
90°	7.8	9.8	12.1	14.4	16.7	19.0	19.6	20.4	21.1	21.8	22.3
92.5°	12.8	13.4	15.1	16.8	18.5	20.3	21.4	22.5	23.6	24.7	25.4
95°	19.4	16.8	18.7	20.7	22.6	24.5	25.7	26.9	28.2	29.5	30.0
97.5°	84.0	76.0	63.5	50.8	38.1	25.4	26.9	28.3	29.7	31.1	31.8
100°	147.7	135.7	108.3	80.9	53.5	26.1	27.5	28.9	30.3	31.7	32.5
102.5°	185.5	171.8	141.9	111.9	82.0	52.0	47.7	43.3	39.0	34.6	32.6
105°	243.4	236.4	220.6	204.8	189.0	173.2	142.0	111.0	79.9	48.8	33.4
107.5°	305.4	307.4	309.9	312.4	314.9	317.4	294.6	271.8	249.0	226.2	203.0
110°	347.2	348.9	350.8	352.8	354.7	356.6	350.8	345.0	339.2	333.4	318.0



TEST NUMBER: P331937-927

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	387.1	388.7	390.7	392.6	394.5	396.5	396.6	396.6	396.8	396.9	394.3
115°	446.2	447.6	449.1	450.7	452.3	453.8	455.7	457.4	459.1	460.9	462.2
117.5°	505.3	506.3	507.1	507.9	508.7	509.5	511.0	512.4	513.7	515.2	515.9
120°	542.4	543.5	544.0	544.5	545.1	545.6	547.0	548.4	549.8	551.2	551.9
122.5°	578.0	579.0	579.6	580.4	581.0	581.6	582.7	583.6	584.6	585.6	586.1
125°	628.7	629.8	630.5	631.1	631.8	632.6	633.0	633.3	633.6	634.0	634.3
127.5°	677.4	678.5	679.4	680.2	681.0	681.9	682.5	683.0	683.6	684.1	684.3
130°	707.8	708.8	709.6	710.3	710.9	711.6	712.3	713.0	713.8	714.5	714.6
132.5°	736.9	737.8	738.4	738.9	739.6	740.1	740.8	741.5	742.2	742.9	743.0
135°	779.9	780.8	781.5	782.2	782.9	783.6	784.1	784.7	785.2	785.7	785.7
137.5°	819.0	819.8	820.2	820.6	821.0	821.4	822.2	823.1	823.9	824.7	825.0
140°	843.2	844.0	844.5	845.0	845.6	846.1	846.8	847.5	848.2	848.9	849.1
142.5°	866.6	867.4	867.9	868.4	868.9	869.5	870.1	870.6	871.2	871.7	871.7
145°	900.0	900.8	901.2	901.5	901.8	902.2	902.5	902.9	903.2	903.6	903.8
147.5°	929.2	929.7	930.1	930.4	930.8	931.1	931.5	931.8	932.2	932.6	932.3
150°	947.0	947.5	947.8	948.2	948.5	948.9	949.2	949.6	949.9	950.3	950.1
152.5°	963.0	963.2	963.4	963.6	963.8	964.0	964.6	965.3	965.9	966.5	966.5
155°	984.6	984.5	984.7	984.8	985.1	985.2	986.1	987.0	987.9	988.7	988.6
157.5°	1004.6	1004.4	1004.2	1004.1	1003.9	1003.7	1004.8	1005.8	1006.9	1008.0	1007.8
160°	1015.3	1015.2	1015.0	1014.9	1014.6	1014.5	1015.6	1016.6	1017.6	1018.7	1018.6
162.5°	1025.0	1024.7	1024.5	1024.3	1024.1	1024.0	1025.2	1026.4	1027.5	1028.7	1028.8
165°	1037.7	1037.4	1037.1	1037.0	1036.8	1036.6	1038.0	1039.4	1040.8	1042.3	1042.4
167.5°	1047.1	1046.7	1046.7	1046.7	1046.7	1046.7	1048.1	1049.6	1051.0	1052.3	1052.3
170°	1052.8	1052.4	1052.4	1052.4	1052.4	1052.4	1053.8	1055.3	1056.7	1058.0	1058.0
172.5°	1056.1	1055.7	1055.8	1056.0	1056.1	1056.2	1057.6	1059.1	1060.4	1061.8	1061.8
175°	1060.8	1060.4	1060.6	1060.8	1061.0	1061.1	1062.4	1063.6	1064.9	1066.0	1066.0
177.5°	1062.8	1062.5	1062.6	1062.8	1062.9	1063.0	1064.1	1065.2	1066.4	1067.5	1067.4
180°	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3



TEST NUMBER: P331937-927

CATALOG NUMBER: S123DIP-S560D1025U927-4F0-1E-UDD-A

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°	8.9	9.0	8.8	8.6	8.8	9.0	8.9	8.8	9.7	8.8	8.7
90°	22.7	23.1	23.4	23.7	23.4	23.1	22.7	22.3	21.8	21.1	20.4
92.5°	25.6	25.8	26.1	26.2	26.1	25.8	25.6	25.4	24.7	23.6	22.5
95°	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	29.5	28.2	26.9
97.5°	32.1	32.2	32.4	32.6	32.4	32.2	32.1	31.8	31.1	29.7	28.3
100°	32.7	32.9	33.0	33.2	33.0	32.9	32.7	32.5	31.7	30.3	28.9
102.5°	32.9	33.2	33.5	33.8	33.5	33.2	32.9	32.6	34.6	39.0	43.3
105°	33.7	34.1	34.5	34.8	34.5	34.1	33.7	33.4	48.8	79.9	111.0
107.5°	179.6	156.1	132.7	109.2	132.7	156.1	179.6	203.0	226.2	249.0	271.8
110°	292.8	267.7	242.6	217.5	242.6	267.7	292.8	318.0	333.4	339.2	345.0



TEST NUMBER: P331937-927

CATALOG NUMBER: S123DIP-S560D1025U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	389.0	383.7	378.3	373.0	378.3	383.7	389.0	394.3	396.9	396.8	396.6
115°	462.8	463.5	464.2	464.9	464.2	463.5	462.8	462.2	460.9	459.1	457.4
117.5°	516.1	516.2	516.3	516.5	516.3	516.2	516.1	515.9	515.2	513.7	512.4
120°	551.9	551.9	551.9	551.9	551.9	551.9	551.9	551.9	551.2	549.8	548.4
122.5°	586.3	586.5	586.5	586.7	586.5	586.5	586.3	586.1	585.6	584.6	583.6
125°	634.7	635.0	635.4	635.7	635.4	635.0	634.7	634.3	634.0	633.6	633.3
127.5°	683.9	683.6	683.2	682.9	683.2	683.6	683.9	684.3	684.1	683.6	683.0
130°	714.3	713.9	713.6	713.2	713.6	713.9	714.3	714.6	714.5	713.8	713.0
132.5°	742.5	742.0	741.6	741.1	741.6	742.0	742.5	743.0	742.9	742.2	741.5
135°	785.2	784.7	784.1	783.6	784.1	784.7	785.2	785.7	785.7	785.2	784.7
137.5°	824.7	824.3	823.9	823.6	823.9	824.3	824.7	825.0	824.7	823.9	823.1
140°	848.7	848.3	848.0	847.6	848.0	848.3	848.7	849.1	848.9	848.2	847.5
142.5°	871.2	870.8	870.3	869.8	870.3	870.8	871.2	871.7	871.7	871.2	870.6
145°	903.8	903.8	903.8	903.8	903.8	903.8	903.8	903.8	903.6	903.2	902.9
147.5°	931.5	930.7	929.9	929.1	929.9	930.7	931.5	932.3	932.6	932.2	931.8
150°	949.7	949.1	948.6	948.1	948.6	949.1	949.7	950.1	950.3	949.9	949.6
152.5°	965.7	964.9	964.1	963.2	964.1	964.9	965.7	966.5	966.5	965.9	965.3
155°	987.6	986.6	985.5	984.4	985.5	986.6	987.6	988.6	988.7	987.9	987.0
157.5°	1006.4	1005.0	1003.7	1002.3	1003.7	1005.0	1006.4	1007.8	1008.0	1006.9	1005.8
160°	1017.4	1016.1	1014.9	1013.7	1014.9	1016.1	1017.4	1018.6	1018.7	1017.6	1016.6
162.5°	1027.7	1026.6	1025.6	1024.5	1025.6	1026.6	1027.7	1028.8	1028.7	1027.5	1026.4
165°	1041.1	1039.9	1038.6	1037.4	1038.6	1039.9	1041.1	1042.4	1042.3	1040.8	1039.4
167.5°	1051.0	1049.6	1048.1	1046.7	1048.1	1049.6	1051.0	1052.3	1052.3	1051.0	1049.6
170°	1056.7	1055.3	1053.8	1052.4	1053.8	1055.3	1056.7	1058.0	1058.0	1056.7	1055.3
172.5°	1060.3	1058.7	1057.2	1055.6	1057.2	1058.7	1060.3	1061.8	1061.8	1060.4	1059.1
175°	1064.5	1063.2	1061.8	1060.3	1061.8	1063.2	1064.5	1066.0	1066.0	1064.9	1063.6
177.5°	1066.0	1064.6	1063.2	1061.8	1063.2	1064.6	1066.0	1067.4	1067.5	1066.4	1065.2
180°	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3



TEST NUMBER: P331937-927

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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°	9.0	8.9	8.2	8.0	7.3	7.1	6.4	6.3	6.2	5.9	6.0
90°	19.6	19.0	16.7	14.4	12.1	9.8	7.8	6.1	4.3	2.5	0.8
92.5°	21.4	20.3	18.5	16.8	15.1	13.4	12.8	13.2	13.7	14.2	14.7
95°	25.7	24.5	22.6	20.7	18.7	16.8	19.4	26.6	33.8	41.0	48.2
97.5°	26.9	25.4	38.1	50.8	63.5	76.0	84.0	87.2	90.5	93.7	97.0
100°	27.5	26.1	53.5	80.9	108.3	135.7	147.7	144.2	140.7	137.1	133.6
102.5°	47.7	52.0	82.0	111.9	141.9	171.8	185.5	183.0	180.5	177.9	175.4
105°	142.0	173.2	189.0	204.8	220.6	236.4	243.4	241.5	239.5	237.6	235.6
107.5°	294.6	317.4	314.9	312.4	309.9	307.4	305.4	303.9	302.3	300.8	299.2
110°	350.8	356.6	354.7	352.8	350.8	348.9	347.2	345.8	344.4	343.0	341.6



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	396.6	396.5	394.5	392.6	390.7	388.7	387.1	385.9	384.6	383.3	382.1
115°	455.7	453.8	452.3	450.7	449.1	447.6	446.2	445.2	444.1	443.1	442.0
117.5°	511.0	509.5	508.7	507.9	507.1	506.3	505.3	504.0	502.6	501.4	500.0
120°	547.0	545.6	545.1	544.5	544.0	543.5	542.4	540.8	539.2	537.7	536.1
122.5°	582.7	581.6	581.0	580.4	579.6	579.0	578.0	576.7	575.4	574.1	572.8
125°	633.0	632.6	631.8	631.1	630.5	629.8	628.7	627.3	625.9	624.5	623.1
127.5°	682.5	681.9	681.0	680.2	679.4	678.5	677.4	676.0	674.6	673.2	671.8
130°	712.3	711.6	710.9	710.3	709.6	708.8	707.8	706.4	705.0	703.5	702.2
132.5°	740.8	740.1	739.6	738.9	738.4	737.8	736.9	735.5	734.0	732.7	731.3
135°	784.1	783.6	782.9	782.2	781.5	780.8	779.9	778.9	777.8	776.7	775.7
137.5°	822.2	821.4	821.0	820.6	820.2	819.8	819.0	817.7	816.3	815.0	813.7
140°	846.8	846.1	845.6	845.0	844.5	844.0	843.2	842.1	841.1	840.0	838.9
142.5°	870.1	869.5	868.9	868.4	867.9	867.4	866.6	865.5	864.4	863.4	862.4
145°	902.5	902.2	901.8	901.5	901.2	900.8	900.0	898.8	897.5	896.4	895.1
147.5°	931.5	931.1	930.8	930.4	930.1	929.7	929.2	928.4	927.6	926.8	925.9
150°	949.2	948.9	948.5	948.2	947.8	947.5	947.0	946.5	945.9	945.5	944.9
152.5°	964.6	964.0	963.8	963.6	963.4	963.2	963.0	962.7	962.5	962.3	961.9
155°	986.1	985.2	985.1	984.8	984.7	984.5	984.6	985.0	985.3	985.6	986.0
157.5°	1004.8	1003.7	1003.9	1004.1	1004.2	1004.4	1004.6	1004.6	1004.6	1004.6	1004.6
160°	1015.6	1014.5	1014.6	1014.9	1015.0	1015.2	1015.3	1015.6	1015.7	1015.9	1016.1
162.5°	1025.2	1024.0	1024.1	1024.3	1024.5	1024.7	1025.0	1025.5	1025.9	1026.4	1026.8
165°	1038.0	1036.6	1036.8	1037.0	1037.1	1037.4	1037.7	1038.2	1038.7	1039.3	1039.8
167.5°	1048.1	1046.7	1046.7	1046.7	1046.7	1046.7	1047.1	1047.8	1048.5	1049.2	1049.9
170°	1053.8	1052.4	1052.4	1052.4	1052.4	1052.4	1052.8	1053.5	1054.2	1054.9	1055.6
172.5°	1057.6	1056.2	1056.1	1056.0	1055.8	1055.7	1056.1	1056.9	1057.7	1058.6	1059.4
175°	1062.4	1061.1	1061.0	1060.8	1060.6	1060.4	1060.8	1061.7	1062.6	1063.4	1064.3
177.5°	1064.1	1063.0	1062.9	1062.8	1062.6	1062.5	1062.8	1063.4	1064.1	1064.9	1065.6
180°	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3



TEST NUMBER: P331937-927

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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°	6.8	7.2	8.2	9.1	10.5	11.6	11.9	11.8	12.0	12.0	11.9
90°	2.5	4.3	6.1	7.8	9.8	12.1	14.4	16.7	19.0	19.6	20.4
92.5°	14.2	13.7	13.2	12.8	13.4	15.1	16.8	18.5	20.3	21.4	22.5
95°	41.0	33.8	26.6	19.4	16.8	18.7	20.7	22.6	24.5	25.7	26.9
97.5°	93.7	90.5	87.2	84.0	76.0	63.5	50.8	38.1	25.4	26.9	28.3
100°	137.1	140.7	144.2	147.7	135.7	108.3	80.9	53.5	26.1	27.5	28.9
102.5°	177.9	180.5	183.0	185.5	171.8	141.9	111.9	82.0	52.0	47.7	43.3
105°	237.6	239.5	241.5	243.4	236.4	220.6	204.8	189.0	173.2	142.0	111.0
107.5°	300.8	302.3	303.9	305.4	307.4	309.9	312.4	314.9	317.4	294.6	271.8
110°	343.0	344.4	345.8	347.2	348.9	350.8	352.8	354.7	356.6	350.8	345.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	383.3	384.6	385.9	387.1	388.7	390.7	392.6	394.5	396.5	396.6	396.6
115°	443.1	444.1	445.2	446.2	447.6	449.1	450.7	452.3	453.8	455.7	457.4
117.5°	501.4	502.6	504.0	505.3	506.3	507.1	507.9	508.7	509.5	511.0	512.4
120°	537.7	539.2	540.8	542.4	543.5	544.0	544.5	545.1	545.6	547.0	548.4
122.5°	574.1	575.4	576.7	578.0	579.0	579.6	580.4	581.0	581.6	582.7	583.6
125°	624.5	625.9	627.3	628.7	629.8	630.5	631.1	631.8	632.6	633.0	633.3
127.5°	673.2	674.6	676.0	677.4	678.5	679.4	680.2	681.0	681.9	682.5	683.0
130°	703.5	705.0	706.4	707.8	708.8	709.6	710.3	710.9	711.6	712.3	713.0
132.5°	732.7	734.0	735.5	736.9	737.8	738.4	738.9	739.6	740.1	740.8	741.5
135°	776.7	777.8	778.9	779.9	780.8	781.5	782.2	782.9	783.6	784.1	784.7
137.5°	815.0	816.3	817.7	819.0	819.8	820.2	820.6	821.0	821.4	822.2	823.1
140°	840.0	841.1	842.1	843.2	844.0	844.5	845.0	845.6	846.1	846.8	847.5
142.5°	863.4	864.4	865.5	866.6	867.4	867.9	868.4	868.9	869.5	870.1	870.6
145°	896.4	897.5	898.8	900.0	900.8	901.2	901.5	901.8	902.2	902.5	902.9
147.5°	926.8	927.6	928.4	929.2	929.7	930.1	930.4	930.8	931.1	931.5	931.8
150°	945.5	945.9	946.5	947.0	947.5	947.8	948.2	948.5	948.9	949.2	949.6
152.5°	962.3	962.5	962.7	963.0	963.2	963.4	963.6	963.8	964.0	964.6	965.3
155°	985.6	985.3	985.0	984.6	984.5	984.7	984.8	985.1	985.2	986.1	987.0
157.5°	1004.6	1004.6	1004.6	1004.6	1004.4	1004.2	1004.1	1003.9	1003.7	1004.8	1005.8
160°	1015.9	1015.7	1015.6	1015.3	1015.2	1015.0	1014.9	1014.6	1014.5	1015.6	1016.6
162.5°	1026.4	1025.9	1025.5	1025.0	1024.7	1024.5	1024.3	1024.1	1024.0	1025.2	1026.4
165°	1039.3	1038.7	1038.2	1037.7	1037.4	1037.1	1037.0	1036.8	1036.6	1038.0	1039.4
167.5°	1049.2	1048.5	1047.8	1047.1	1046.7	1046.7	1046.7	1046.7	1046.7	1048.1	1049.6
170°	1054.9	1054.2	1053.5	1052.8	1052.4	1052.4	1052.4	1052.4	1052.4	1053.8	1055.3
172.5°	1058.6	1057.7	1056.9	1056.1	1055.7	1055.8	1056.0	1056.1	1056.2	1057.6	1059.1
175°	1063.4	1062.6	1061.7	1060.8	1060.4	1060.6	1060.8	1061.0	1061.1	1062.4	1063.6
177.5°	1064.9	1064.1	1063.4	1062.8	1062.5	1062.6	1062.8	1062.9	1063.0	1064.1	1065.2
180°	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3



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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°	11.7	11.6	11.5	11.8	11.6	11.5	12.0
90°	21.1	21.8	22.3	22.7	23.1	23.4	23.7
92.5°	23.6	24.7	25.4	25.6	25.8	26.1	26.2
95°	28.2	29.5	30.0	30.0	30.0	30.0	30.0
97.5°	29.7	31.1	31.8	32.1	32.2	32.4	32.6
100°	30.3	31.7	32.5	32.7	32.9	33.0	33.2
102.5°	39.0	34.6	32.6	32.9	33.2	33.5	33.8
105°	79.9	48.8	33.4	33.7	34.1	34.5	34.8
107.5°	249.0	226.2	203.0	179.6	156.1	132.7	109.2
110°	339.2	333.4	318.0	292.8	267.7	242.6	217.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	396.8	396.9	394.3	389.0	383.7	378.3	373.0
115°	459.1	460.9	462.2	462.8	463.5	464.2	464.9
117.5°	513.7	515.2	515.9	516.1	516.2	516.3	516.5
120°	549.8	551.2	551.9	551.9	551.9	551.9	551.9
122.5°	584.6	585.6	586.1	586.3	586.5	586.5	586.7
125°	633.6	634.0	634.3	634.7	635.0	635.4	635.7
127.5°	683.6	684.1	684.3	683.9	683.6	683.2	682.9
130°	713.8	714.5	714.6	714.3	713.9	713.6	713.2
132.5°	742.2	742.9	743.0	742.5	742.0	741.6	741.1
135°	785.2	785.7	785.7	785.2	784.7	784.1	783.6
137.5°	823.9	824.7	825.0	824.7	824.3	823.9	823.6
140°	848.2	848.9	849.1	848.7	848.3	848.0	847.6
142.5°	871.2	871.7	871.7	871.2	870.8	870.3	869.8
145°	903.2	903.6	903.8	903.8	903.8	903.8	903.8
147.5°	932.2	932.6	932.3	931.5	930.7	929.9	929.1
150°	949.9	950.3	950.1	949.7	949.1	948.6	948.1
152.5°	965.9	966.5	966.5	965.7	964.9	964.1	963.2
155°	987.9	988.7	988.6	987.6	986.6	985.5	984.4
157.5°	1006.9	1008.0	1007.8	1006.4	1005.0	1003.7	1002.3
160°	1017.6	1018.7	1018.6	1017.4	1016.1	1014.9	1013.7
162.5°	1027.5	1028.7	1028.8	1027.7	1026.6	1025.6	1024.5
165°	1040.8	1042.3	1042.4	1041.1	1039.9	1038.6	1037.4
167.5°	1051.0	1052.3	1052.3	1051.0	1049.6	1048.1	1046.7
170°	1056.7	1058.0	1058.0	1056.7	1055.3	1053.8	1052.4
172.5°	1060.4	1061.8	1061.8	1060.3	1058.7	1057.2	1055.6
175°	1064.9	1066.0	1066.0	1064.5	1063.2	1061.8	1060.3
177.5°	1066.4	1067.5	1067.4	1066.0	1064.6	1063.2	1061.8
180°	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3

(END OF REPORT)