

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: P331893-940

Luminaire Tested: **S123DIP-S340D1025U940-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331893-940
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-S340D1025U940-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 340 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: 4436.9 lumens
Efficiency: N/A
Efficacy: 119.0 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

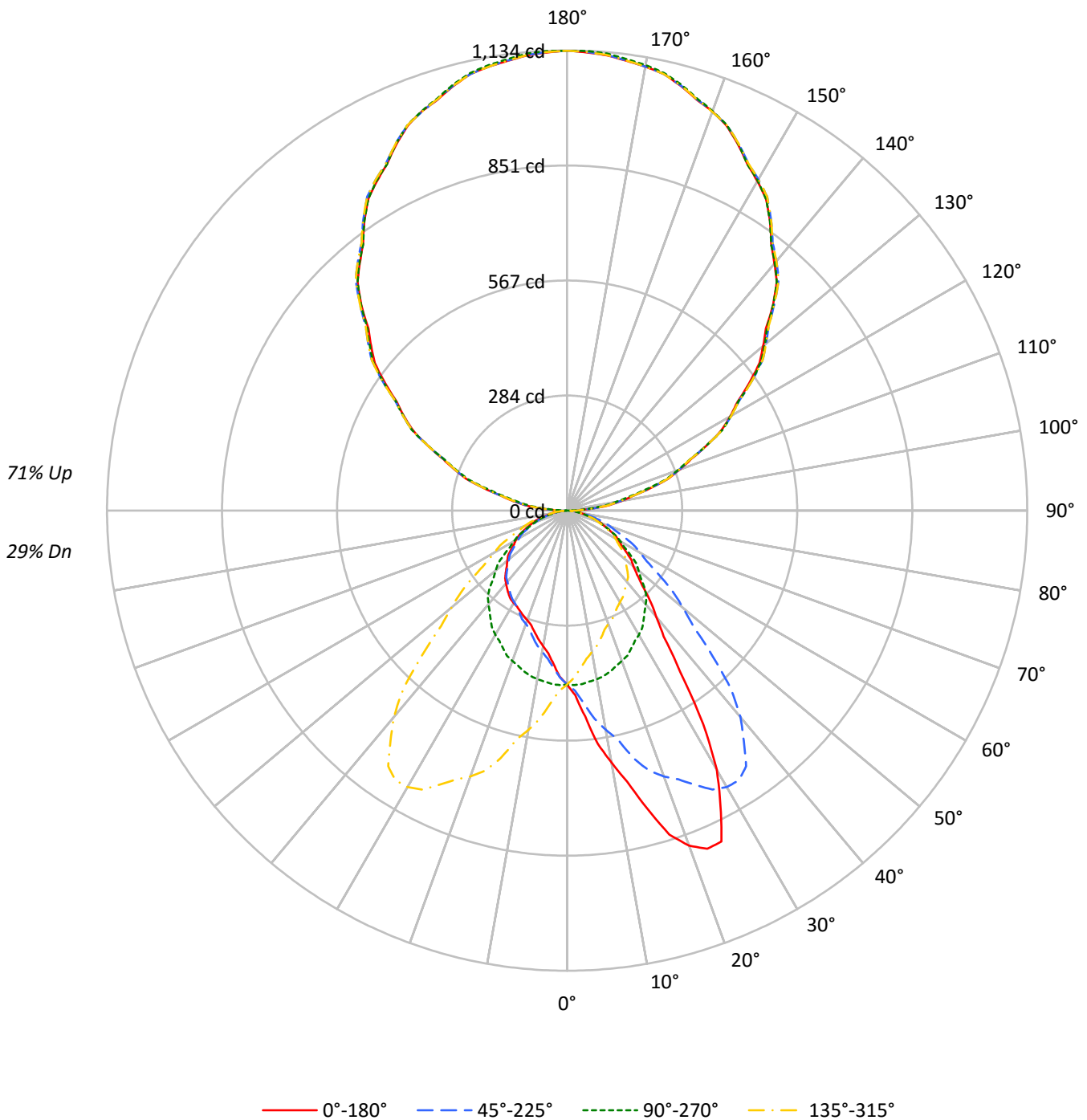
Input Watts (W): 37.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	37	37	37	29
1	93	89	85	82	83	80	77	74	63	61	59	47	46	45	33	32	32	25
2	85	78	72	67	76	70	65	61	55	52	49	42	40	38	29	28	27	21
3	78	69	62	56	69	62	56	51	49	45	41	37	34	32	26	24	23	18
4	71	61	53	47	63	55	48	43	43	39	35	33	30	27	23	21	20	16
5	65	54	46	40	58	49	42	37	39	34	30	30	26	24	21	19	17	14
6	60	48	41	35	53	44	37	32	35	30	26	27	23	21	19	17	15	12
7	55	43	36	30	49	39	33	28	32	27	23	24	21	18	17	15	14	11
8	51	39	32	27	46	36	29	25	29	24	20	22	19	16	16	14	12	10
9	48	36	29	24	43	32	26	22	26	21	18	20	17	14	15	12	11	9
10	44	33	26	21	40	30	24	19	24	19	16	19	15	13	14	11	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4614	4614	4614	4614
5°	5503	4635	4107	4635
10°	6889	4612	3711	4612
15°	8449	4574	3455	4574
20°	10065	4517	3289	4517
25°	10688	4445	3252	4445
30°	9161	4395	3269	4395
35°	6370	4322	3303	4322
40°	4799	4235	3292	4235
45°	3984	4107	3252	4107
50°	3569	3848	3220	3848
55°	3337	3567	3181	3567
60°	3130	3272	3147	3272
65°	2942	2985	3049	2985
70°	2760	2656	2902	2656
75°	2470	2325	2662	2325
80°	2163	1909	2294	1909
85°	1692	1383	1544	1383



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.2	1.0
10°-20°	135.4	3.1
20°-30°	227.3	5.1
30°-40°	257.4	5.8
40°-50°	230.8	5.2
50°-60°	186.3	4.2
60°-70°	129.8	2.9
70°-80°	68.2	1.5
80°-90°	20.0	0.5
90°-100°	73.8	1.7
100°-110°	220.9	5.0
110°-120°	375.8	8.5
120°-130°	494.3	11.1
130°-140°	555.6	12.5
140°-150°	546.1	12.3
150°-160°	459.7	10.4
160°-170°	306.0	6.9
170°-180°	107.2	2.4
0°-30°	405.0	9.1
0°-40°	662.4	14.9
0°-60°	1079.4	24.3
0°-90°	1297.4	29.2
90°-120°	670.6	15.1
90°-150°	2266.5	51.1
90°-180°	3139.0	70.7
0°-180°	4436.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	429	429	429	429	429	
5°	509	429	380	429	509	53
15°	758	410	310	410	758	219
25°	900	374	274	374	900	395
35°	485	329	251	329	485	315
45°	262	270	214	270	262	207
55°	178	190	170	190	178	160
65°	116	117	120	117	116	115
75°	59	56	64	56	59	64
85°	14	11	12	11	14	17
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°	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7
2.5°	455.0	454.7	453.9	454.5	453.2	451.4	451.2	449.5	444.7	444.4	443.1
5°	509.3	507.7	507.5	507.3	504.4	500.4	492.9	492.3	482.3	477.4	471.4
7.5°	579.8	580.6	577.6	575.0	566.1	560.2	552.1	541.9	529.7	517.2	509.0
10°	630.3	637.1	628.7	622.8	617.4	607.3	595.4	580.6	565.9	548.7	535.6
12.5°	684.5	687.8	686.1	680.6	672.3	656.7	635.8	619.5	605.9	577.2	565.6
15°	758.2	770.9	762.8	744.1	744.5	729.8	702.4	672.3	656.2	631.1	596.8
17.5°	836.9	838.4	835.0	819.4	809.0	788.7	763.4	734.6	702.1	671.7	635.3
20°	878.7	877.4	870.2	862.1	844.3	828.5	800.8	768.7	727.1	697.1	657.5
22.5°	902.0	899.9	896.4	889.7	874.9	857.9	833.0	797.9	758.3	717.1	671.3
25°	899.9	902.6	903.0	901.2	896.0	885.8	866.3	838.2	798.8	745.7	698.0
27.5°	818.5	822.3	833.4	843.3	854.3	865.5	864.0	850.1	820.8	775.1	716.7
30°	737.1	728.7	749.3	775.3	792.9	824.1	841.5	842.6	826.2	786.9	730.0
32.5°	624.0	633.2	642.3	674.2	712.8	747.8	782.6	810.5	813.7	787.6	737.8
35°	484.8	496.3	512.9	529.5	571.1	606.8	667.9	721.0	763.4	769.0	738.5
37.5°	390.7	396.4	406.9	423.6	450.7	493.1	540.3	607.5	669.0	714.6	716.6
40°	341.5	343.2	355.0	367.7	389.7	424.6	467.2	526.6	600.1	664.0	690.5
42.5°	304.6	308.3	313.3	325.5	343.0	369.3	408.8	458.0	525.4	598.8	650.8
45°	261.7	265.9	269.0	277.1	289.6	307.3	334.8	379.8	431.1	506.8	576.8
47.5°	233.4	233.7	236.0	242.2	250.7	263.9	283.5	312.3	359.4	420.9	492.8
50°	213.1	216.4	217.3	222.0	228.7	238.4	254.7	279.2	317.8	371.8	437.9
52.5°	198.9	199.8	202.2	205.6	211.4	219.0	233.1	252.3	282.6	328.7	389.4
55°	177.8	177.8	180.1	182.8	186.1	193.0	202.3	216.4	239.5	275.3	325.6
57.5°	158.4	159.4	161.0	161.8	164.7	169.2	177.0	187.8	204.9	232.5	272.4
60°	145.4	147.3	147.0	148.7	151.2	154.8	161.4	170.1	185.5	207.5	241.2
62.5°	134.1	134.0	133.9	136.0	138.4	141.8	146.2	153.6	166.7	186.3	214.9
65°	115.5	115.1	116.5	117.8	118.6	121.1	124.4	131.1	139.8	154.4	176.6
67.5°	99.0	97.7	98.5	99.0	100.4	102.4	105.5	109.6	116.5	128.1	144.9
70°	87.7	86.6	86.4	86.9	88.1	89.5	91.8	95.8	102.2	111.6	123.8
72.5°	76.1	75.3	75.3	76.2	76.8	77.8	79.4	82.9	88.1	95.1	106.6
75°	59.4	59.4	59.4	59.7	60.3	61.1	62.3	64.2	68.1	73.1	80.8
77.5°	44.5	44.5	44.2	44.2	45.1	45.5	45.7	47.5	49.8	53.1	58.7
80°	34.9	33.9	34.2	34.9	35.3	35.5	36.1	36.6	38.4	40.3	44.2
82.5°	25.9	25.1	25.1	26.1	26.2	26.4	27.0	27.6	28.3	30.0	32.1
85°	13.7	13.7	13.9	13.9	14.1	13.9	14.5	14.7	14.7	15.8	17.0
87.5°	10.3	9.9	10.0	10.1	9.8	9.9	9.9	9.9	9.9	9.9	9.5
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°	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7
2.5°	442.0	440.8	439.4	437.1	435.1	432.3	431.4	430.4	427.4	424.8	422.8
5°	469.0	464.0	456.8	450.1	444.8	437.5	433.4	429.0	422.8	417.1	412.6
7.5°	497.3	487.5	476.2	464.0	452.6	441.7	432.8	424.9	416.2	408.0	401.4
10°	519.8	505.6	489.8	472.8	458.3	444.2	432.3	422.0	410.7	400.9	392.8
12.5°	545.4	524.4	502.7	482.0	464.8	445.1	430.8	417.6	404.8	393.2	384.1
15°	575.6	549.0	523.3	494.8	468.7	444.2	427.1	410.5	395.7	383.7	372.0
17.5°	603.2	573.1	539.1	504.5	473.0	443.9	420.1	401.3	382.8	368.1	356.5
20°	618.8	584.6	546.2	510.2	475.3	442.9	416.7	394.3	374.3	358.7	345.7
22.5°	632.3	592.2	552.4	514.0	475.1	440.2	410.5	387.4	365.9	350.6	336.7
25°	646.3	598.2	558.4	513.4	469.9	433.7	400.6	374.3	352.8	334.8	320.6
27.5°	658.3	597.9	550.5	502.0	461.6	425.4	389.9	361.9	338.9	319.5	305.0
30°	666.2	598.7	542.4	494.5	453.7	416.3	381.8	353.6	329.5	309.8	296.0
32.5°	671.2	598.2	534.9	483.8	441.0	408.0	373.0	343.8	319.0	299.6	286.4
35°	674.1	594.5	522.0	461.8	420.7	388.4	359.2	328.9	302.9	284.8	269.8
37.5°	668.2	586.8	507.1	440.6	395.6	363.9	339.2	313.4	288.6	268.7	255.7
40°	659.2	581.8	495.4	425.6	378.3	347.8	326.8	301.4	276.9	258.0	245.9
42.5°	641.7	571.8	482.7	409.0	360.3	329.8	310.5	289.3	266.1	248.3	236.3
45°	599.1	549.7	463.4	384.1	333.9	302.3	285.3	269.8	248.9	231.7	221.2
47.5°	540.0	516.5	435.7	357.8	306.1	275.8	258.1	245.8	230.4	216.4	206.5
50°	499.0	489.2	417.0	339.8	287.8	258.0	240.9	229.8	218.7	204.8	195.7
52.5°	451.7	457.6	395.0	321.3	268.9	239.7	223.7	214.8	204.8	193.3	185.4
55°	385.0	406.7	357.1	290.0	240.9	213.1	198.0	190.1	184.2	175.8	168.9
57.5°	322.5	350.3	316.1	257.8	213.5	189.5	175.0	166.4	162.6	158.2	152.8
60°	285.4	312.8	286.9	236.2	195.1	172.2	159.3	152.0	148.3	145.2	140.6
62.5°	252.4	280.1	258.3	214.3	176.9	155.8	144.5	137.4	134.6	133.0	129.0
65°	206.9	230.8	216.2	180.1	151.1	132.3	122.2	117.2	114.5	113.9	111.4
67.5°	168.4	186.5	176.0	149.4	126.5	110.4	101.7	97.5	95.4	95.1	93.3
70°	143.1	160.2	152.0	128.0	108.3	95.6	88.1	84.4	83.1	82.9	81.9
72.5°	123.5	135.4	128.9	108.9	93.6	82.1	76.6	72.7	71.3	71.6	70.9
75°	91.4	100.3	96.6	82.7	70.4	63.0	58.4	55.9	54.7	55.3	54.4
77.5°	65.8	71.4	68.0	58.4	50.8	45.5	42.1	40.6	39.4	39.4	39.1
80°	49.7	53.0	51.1	45.3	39.1	34.5	31.7	30.8	30.1	29.9	29.7
82.5°	35.4	38.2	35.9	32.0	27.7	25.0	23.5	22.1	21.7	21.8	21.6
85°	17.8	18.9	18.1	15.6	13.9	12.7	11.9	11.2	10.8	11.0	10.6
87.5°	9.4	9.0	8.0	7.0	6.2	5.3	4.9	4.2	4.2	4.6	4.8
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



TEST NUMBER: P331893-940

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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



TEST NUMBER: P331893-940

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7
2.5°	421.6	420.4	418.8	416.3	414.3	411.2	411.2	411.6	411.6	411.5	411.2
5°	408.8	405.7	402.0	397.6	393.1	388.4	387.6	385.9	384.8	383.9	382.9
7.5°	395.3	389.8	384.3	378.3	372.6	368.1	364.9	362.2	360.5	358.6	357.3
10°	386.2	379.3	372.9	366.5	359.4	353.7	350.3	347.8	345.9	344.2	343.4
12.5°	375.4	367.6	360.4	354.3	346.6	340.8	337.4	336.3	334.1	330.6	328.8
15°	359.6	352.3	343.8	334.5	330.7	323.7	319.7	317.8	316.6	313.9	313.1
17.5°	346.1	336.6	327.0	320.0	313.1	307.4	305.1	302.8	301.2	299.0	298.3
20°	335.3	326.8	318.1	310.6	303.3	297.0	295.2	293.6	291.9	290.9	290.0
22.5°	324.3	315.8	308.5	301.6	293.8	289.7	287.8	285.9	284.7	284.0	283.2
25°	308.9	301.4	293.3	287.1	280.9	278.1	276.9	275.9	275.0	274.0	273.8
27.5°	295.2	287.0	280.4	274.6	270.1	267.9	266.6	266.2	266.4	266.7	267.0
30°	284.8	277.3	272.0	267.0	262.8	260.7	260.5	260.5	261.4	261.5	262.0
32.5°	275.4	269.2	263.8	259.0	255.8	254.4	255.2	255.2	255.8	256.4	257.2
35°	261.5	256.1	252.0	247.8	245.1	245.8	246.2	246.6	247.6	248.9	249.7
37.5°	248.3	243.7	239.3	236.1	234.9	235.9	237.0	237.8	239.1	240.0	240.9
40°	238.9	235.3	231.2	228.3	228.7	229.3	230.2	231.2	232.3	232.9	233.7
42.5°	230.1	226.4	223.2	220.8	221.4	222.2	222.7	223.2	224.4	225.6	226.0
45°	216.7	213.7	210.9	209.4	209.8	210.3	210.6	211.2	212.3	213.1	213.4
47.5°	201.6	199.6	197.6	196.2	196.9	196.7	197.2	198.6	198.9	199.4	200.5
50°	192.0	190.1	187.8	187.3	187.3	187.3	187.6	189.2	189.2	190.1	190.9
52.5°	181.3	180.1	178.7	177.9	177.5	177.5	178.4	179.2	179.6	180.7	181.6
55°	165.6	164.3	163.1	162.5	162.0	162.5	164.1	164.5	165.6	166.2	166.8
57.5°	149.2	148.2	147.2	146.9	146.8	147.3	148.2	149.5	149.7	151.7	152.6
60°	138.4	136.9	136.1	136.1	135.6	137.5	137.1	139.2	139.6	140.9	142.3
62.5°	127.2	125.3	124.9	124.9	125.6	126.1	126.6	127.5	128.7	130.2	131.3
65°	109.2	108.3	109.7	109.5	109.1	110.3	110.3	111.4	112.6	114.0	116.4
67.5°	92.3	91.8	91.8	91.8	92.5	93.2	93.8	94.7	96.2	97.7	99.2
70°	80.8	81.4	80.4	81.2	81.9	82.0	82.5	83.7	85.3	86.4	88.1
72.5°	69.6	69.6	69.7	70.1	70.7	71.1	71.5	72.9	74.7	75.6	77.0
75°	53.6	53.4	54.0	54.0	55.0	55.5	55.9	56.5	58.1	59.4	60.5
77.5°	39.1	39.4	39.2	39.9	39.7	39.8	41.0	41.6	41.8	44.3	44.9
80°	29.5	29.9	30.1	30.3	30.5	30.1	31.6	32.2	32.2	33.6	34.7
82.5°	21.2	21.4	21.9	22.2	22.2	22.6	22.7	23.2	23.7	24.3	25.7
85°	10.6	11.2	11.4	11.2	11.4	11.0	11.6	11.9	12.0	12.0	12.0
87.5°	5.1	5.7	6.1	6.8	7.0	7.8	7.9	7.8	7.9	8.6	8.0
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: P331893-940

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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



TEST NUMBER: P331893-940

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7
2.5°	410.0	409.8	411.0	410.2	411.0	409.8	410.0	411.2	411.5	411.6	411.6
5°	381.7	382.3	380.1	380.1	380.1	382.3	381.7	382.9	383.9	384.8	385.9
7.5°	356.3	355.4	355.5	354.4	355.5	355.4	356.3	357.3	358.6	360.5	362.2
10°	340.9	339.7	339.2	339.5	339.2	339.7	340.9	343.4	344.2	345.9	347.8
12.5°	328.1	327.9	325.1	325.1	325.1	327.9	328.1	328.8	330.6	334.1	336.3
15°	313.1	309.2	308.7	310.0	308.7	309.2	313.1	313.1	313.9	316.6	317.8
17.5°	298.0	295.9	296.0	295.4	296.0	295.9	298.0	298.3	299.0	301.2	302.8
20°	290.0	288.7	288.6	287.1	288.6	288.7	290.0	290.0	290.9	291.9	293.6
22.5°	282.7	282.3	282.4	280.8	282.4	282.3	282.7	283.2	284.0	284.7	285.9
25°	273.6	274.6	273.8	273.8	273.8	274.6	273.6	273.8	274.0	275.0	275.9
27.5°	267.4	267.4	267.0	267.0	267.0	267.4	267.4	267.0	266.7	266.4	266.2
30°	262.8	262.6	263.0	263.0	263.0	262.6	262.8	262.0	261.5	261.4	260.5
32.5°	258.2	258.4	258.5	258.7	258.5	258.4	258.2	257.2	256.4	255.8	255.2
35°	250.9	251.2	251.8	251.4	251.8	251.2	250.9	249.7	248.9	247.6	246.6
37.5°	241.2	242.2	242.0	242.3	242.0	242.2	241.2	240.9	240.0	239.1	237.8
40°	233.9	234.5	234.3	234.3	234.3	234.5	233.9	233.7	232.9	232.3	231.2
42.5°	226.4	226.9	226.3	226.0	226.3	226.9	226.4	226.0	225.6	224.4	223.2
45°	214.2	213.7	214.4	213.6	214.4	213.7	214.2	213.4	213.1	212.3	211.2
47.5°	200.5	200.9	201.1	201.7	201.1	200.9	200.5	200.5	199.4	198.9	198.6
50°	191.4	192.6	192.6	192.3	192.6	192.6	191.4	190.9	190.1	189.2	189.2
52.5°	182.4	182.9	183.8	183.7	183.8	182.9	182.4	181.6	180.7	179.6	179.2
55°	168.4	168.9	169.3	169.5	169.3	168.9	168.4	166.8	166.2	165.6	164.5
57.5°	154.1	153.9	154.9	155.2	154.9	153.9	154.1	152.6	151.7	149.7	149.5
60°	143.9	143.9	145.6	146.2	145.6	143.9	143.9	142.3	140.9	139.6	139.2
62.5°	133.1	133.8	135.5	134.6	135.5	133.8	133.1	131.3	130.2	128.7	127.5
65°	117.3	119.0	118.9	119.7	118.9	119.0	117.3	116.4	114.0	112.6	111.4
67.5°	100.9	101.9	103.4	103.5	103.4	101.9	100.9	99.2	97.7	96.2	94.7
70°	89.7	90.8	91.6	92.2	91.6	90.8	89.7	88.1	86.4	85.3	83.7
72.5°	78.9	79.5	81.5	80.6	81.5	79.5	78.9	77.0	75.6	74.7	72.9
75°	61.9	63.4	64.6	64.0	64.6	63.4	61.9	60.5	59.4	58.1	56.5
77.5°	45.7	47.3	47.8	47.3	47.8	47.3	45.7	44.9	44.3	41.8	41.6
80°	36.1	35.9	37.2	37.0	37.2	35.9	36.1	34.7	33.6	32.2	32.2
82.5°	26.5	26.3	26.8	27.0	26.8	26.3	26.5	25.7	24.3	23.7	23.2
85°	12.8	13.5	12.7	12.5	12.7	13.5	12.8	12.0	12.0	12.0	11.9
87.5°	8.1	8.2	8.1	8.0	8.1	8.2	8.1	8.0	8.6	7.9	7.8
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: P331893-940

CATALOG NUMBER: S123DIP-S340D1025U940-4F0-1E-UDD-A1

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



TEST NUMBER: P331893-940

CATALOG NUMBER: S123DIP-S340D1025U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7
2.5°	411.2	411.2	414.3	416.3	418.8	420.4	421.6	422.8	424.8	427.4	430.4
5°	387.6	388.4	393.1	397.6	402.0	405.7	408.8	412.6	417.1	422.8	429.0
7.5°	364.9	368.1	372.6	378.3	384.3	389.8	395.3	401.4	408.0	416.2	424.9
10°	350.3	353.7	359.4	366.5	372.9	379.3	386.2	392.8	400.9	410.7	422.0
12.5°	337.4	340.8	346.6	354.3	360.4	367.6	375.4	384.1	393.2	404.8	417.6
15°	319.7	323.7	330.7	334.5	343.8	352.3	359.6	372.0	383.7	395.7	410.5
17.5°	305.1	307.4	313.1	320.0	327.0	336.6	346.1	356.5	368.1	382.8	401.3
20°	295.2	297.0	303.3	310.6	318.1	326.8	335.3	345.7	358.7	374.3	394.3
22.5°	287.8	289.7	293.8	301.6	308.5	315.8	324.3	336.7	350.6	365.9	387.4
25°	276.9	278.1	280.9	287.1	293.3	301.4	308.9	320.6	334.8	352.8	374.3
27.5°	266.6	267.9	270.1	274.6	280.4	287.0	295.2	305.0	319.5	338.9	361.9
30°	260.5	260.7	262.8	267.0	272.0	277.3	284.8	296.0	309.8	329.5	353.6
32.5°	255.2	254.4	255.8	259.0	263.8	269.2	275.4	286.4	299.6	319.0	343.8
35°	246.2	245.8	245.1	247.8	252.0	256.1	261.5	269.8	284.8	302.9	328.9
37.5°	237.0	235.9	234.9	236.1	239.3	243.7	248.3	255.7	268.7	288.6	313.4
40°	230.2	229.3	228.7	228.3	231.2	235.3	238.9	245.9	258.0	276.9	301.4
42.5°	222.7	222.2	221.4	220.8	223.2	226.4	230.1	236.3	248.3	266.1	289.3
45°	210.6	210.3	209.8	209.4	210.9	213.7	216.7	221.2	231.7	248.9	269.8
47.5°	197.2	196.7	196.9	196.2	197.6	199.6	201.6	206.5	216.4	230.4	245.8
50°	187.6	187.3	187.3	187.3	187.8	190.1	192.0	195.7	204.8	218.7	229.8
52.5°	178.4	177.5	177.5	177.9	178.7	180.1	181.3	185.4	193.3	204.8	214.8
55°	164.1	162.5	162.0	162.5	163.1	164.3	165.6	168.9	175.8	184.2	190.1
57.5°	148.2	147.3	146.8	146.9	147.2	148.2	149.2	152.8	158.2	162.6	166.4
60°	137.1	137.5	135.6	136.1	136.1	136.9	138.4	140.6	145.2	148.3	152.0
62.5°	126.6	126.1	125.6	124.9	124.9	125.3	127.2	129.0	133.0	134.6	137.4
65°	110.3	110.3	109.1	109.5	109.7	108.3	109.2	111.4	113.9	114.5	117.2
67.5°	93.8	93.2	92.5	91.8	91.8	91.8	92.3	93.3	95.1	95.4	97.5
70°	82.5	82.0	81.9	81.2	80.4	81.4	80.8	81.9	82.9	83.1	84.4
72.5°	71.5	71.1	70.7	70.1	69.7	69.6	69.6	70.9	71.6	71.3	72.7
75°	55.9	55.5	55.0	54.0	54.0	53.4	53.6	54.4	55.3	54.7	55.9
77.5°	41.0	39.8	39.7	39.9	39.2	39.4	39.1	39.1	39.4	39.4	40.6
80°	31.6	30.1	30.5	30.3	30.1	29.9	29.5	29.7	29.9	30.1	30.8
82.5°	22.7	22.6	22.2	22.2	21.9	21.4	21.2	21.6	21.8	21.7	22.1
85°	11.6	11.0	11.4	11.2	11.4	11.2	10.6	10.6	11.0	10.8	11.2
87.5°	7.9	7.8	7.0	6.8	6.1	5.7	5.1	4.8	4.6	4.2	4.2
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



TEST NUMBER: P331893-940

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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



TEST NUMBER: P331893-940

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7
2.5°	431.4	432.3	435.1	437.1	439.4	440.8	442.0	443.1	444.4	444.7	449.5
5°	433.4	437.5	444.8	450.1	456.8	464.0	469.0	471.4	477.4	482.3	492.3
7.5°	432.8	441.7	452.6	464.0	476.2	487.5	497.3	509.0	517.2	529.7	541.9
10°	432.3	444.2	458.3	472.8	489.8	505.6	519.8	535.6	548.7	565.9	580.6
12.5°	430.8	445.1	464.8	482.0	502.7	524.4	545.4	565.6	577.2	605.9	619.5
15°	427.1	444.2	468.7	494.8	523.3	549.0	575.6	596.8	631.1	656.2	672.3
17.5°	420.1	443.9	473.0	504.5	539.1	573.1	603.2	635.3	671.7	702.1	734.6
20°	416.7	442.9	475.3	510.2	546.2	584.6	618.8	657.5	697.1	727.1	768.7
22.5°	410.5	440.2	475.1	514.0	552.4	592.2	632.3	671.3	717.1	758.3	797.9
25°	400.6	433.7	469.9	513.4	558.4	598.2	646.3	698.0	745.7	798.8	838.2
27.5°	389.9	425.4	461.6	502.0	550.5	597.9	658.3	716.7	775.1	820.8	850.1
30°	381.8	416.3	453.7	494.5	542.4	598.7	666.2	730.0	786.9	826.2	842.6
32.5°	373.0	408.0	441.0	483.8	534.9	598.2	671.2	737.8	787.6	813.7	810.5
35°	359.2	388.4	420.7	461.8	522.0	594.5	674.1	738.5	769.0	763.4	721.0
37.5°	339.2	363.9	395.6	440.6	507.1	586.8	668.2	716.6	714.6	669.0	607.5
40°	326.8	347.8	378.3	425.6	495.4	581.8	659.2	690.5	664.0	600.1	526.6
42.5°	310.5	329.8	360.3	409.0	482.7	571.8	641.7	650.8	598.8	525.4	458.0
45°	285.3	302.3	333.9	384.1	463.4	549.7	599.1	576.8	506.8	431.1	379.8
47.5°	258.1	275.8	306.1	357.8	435.7	516.5	540.0	492.8	420.9	359.4	312.3
50°	240.9	258.0	287.8	339.8	417.0	489.2	499.0	437.9	371.8	317.8	279.2
52.5°	223.7	239.7	268.9	321.3	395.0	457.6	451.7	389.4	328.7	282.6	252.3
55°	198.0	213.1	240.9	290.0	357.1	406.7	385.0	325.6	275.3	239.5	216.4
57.5°	175.0	189.5	213.5	257.8	316.1	350.3	322.5	272.4	232.5	204.9	187.8
60°	159.3	172.2	195.1	236.2	286.9	312.8	285.4	241.2	207.5	185.5	170.1
62.5°	144.5	155.8	176.9	214.3	258.3	280.1	252.4	214.9	186.3	166.7	153.6
65°	122.2	132.3	151.1	180.1	216.2	230.8	206.9	176.6	154.4	139.8	131.1
67.5°	101.7	110.4	126.5	149.4	176.0	186.5	168.4	144.9	128.1	116.5	109.6
70°	88.1	95.6	108.3	128.0	152.0	160.2	143.1	123.8	111.6	102.2	95.8
72.5°	76.6	82.1	93.6	108.9	128.9	135.4	123.5	106.6	95.1	88.1	82.9
75°	58.4	63.0	70.4	82.7	96.6	100.3	91.4	80.8	73.1	68.1	64.2
77.5°	42.1	45.5	50.8	58.4	68.0	71.4	65.8	58.7	53.1	49.8	47.5
80°	31.7	34.5	39.1	45.3	51.1	53.0	49.7	44.2	40.3	38.4	36.6
82.5°	23.5	25.0	27.7	32.0	35.9	38.2	35.4	32.1	30.0	28.3	27.6
85°	11.9	12.7	13.9	15.6	18.1	18.9	17.8	17.0	15.8	14.7	14.7
87.5°	4.9	5.3	6.2	7.0	8.0	9.0	9.4	9.5	9.9	9.9	9.9
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°	428.7	428.7	428.7	428.7	428.7	428.7	428.7
2.5°	451.2	451.4	453.2	454.5	453.9	454.7	455.0
5°	492.9	500.4	504.4	507.3	507.5	507.7	509.3
7.5°	552.1	560.2	566.1	575.0	577.6	580.6	579.8
10°	595.4	607.3	617.4	622.8	628.7	637.1	630.3
12.5°	635.8	656.7	672.3	680.6	686.1	687.8	684.5
15°	702.4	729.8	744.5	744.1	762.8	770.9	758.2
17.5°	763.4	788.7	809.0	819.4	835.0	838.4	836.9
20°	800.8	828.5	844.3	862.1	870.2	877.4	878.7
22.5°	833.0	857.9	874.9	889.7	896.4	899.9	902.0
25°	866.3	885.8	896.0	901.2	903.0	902.6	899.9
27.5°	864.0	865.5	854.3	843.3	833.4	822.3	818.5
30°	841.5	824.1	792.9	775.3	749.3	728.7	737.1
32.5°	782.6	747.8	712.8	674.2	642.3	633.2	624.0
35°	667.9	606.8	571.1	529.5	512.9	496.3	484.8
37.5°	540.3	493.1	450.7	423.6	406.9	396.4	390.7
40°	467.2	424.6	389.7	367.7	355.0	343.2	341.5
42.5°	408.8	369.3	343.0	325.5	313.3	308.3	304.6
45°	334.8	307.3	289.6	277.1	269.0	265.9	261.7
47.5°	283.5	263.9	250.7	242.2	236.0	233.7	233.4
50°	254.7	238.4	228.7	222.0	217.3	216.4	213.1
52.5°	233.1	219.0	211.4	205.6	202.2	199.8	198.9
55°	202.3	193.0	186.1	182.8	180.1	177.8	177.8
57.5°	177.0	169.2	164.7	161.8	161.0	159.4	158.4
60°	161.4	154.8	151.2	148.7	147.0	147.3	145.4
62.5°	146.2	141.8	138.4	136.0	133.9	134.0	134.1
65°	124.4	121.1	118.6	117.8	116.5	115.1	115.5
67.5°	105.5	102.4	100.4	99.0	98.5	97.7	99.0
70°	91.8	89.5	88.1	86.9	86.4	86.6	87.7
72.5°	79.4	77.8	76.8	76.2	75.3	75.3	76.1
75°	62.3	61.1	60.3	59.7	59.4	59.4	59.4
77.5°	45.7	45.5	45.1	44.2	44.2	44.5	44.5
80°	36.1	35.5	35.3	34.9	34.2	33.9	34.9
82.5°	27.0	26.4	26.2	26.1	25.1	25.1	25.9
85°	14.5	13.9	14.1	13.9	13.9	13.7	13.7
87.5°	9.9	9.9	9.8	10.1	10.0	9.9	10.3
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)