

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: P332103-940

Luminaire Tested: **S123DIW-S340D1030U940-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332103-940  
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: S123DIW-S340D1030U940-4F0-1E-UDD-A1  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1030 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4483.8 lumens  
Efficiency: N/A  
Efficacy: 118.0 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

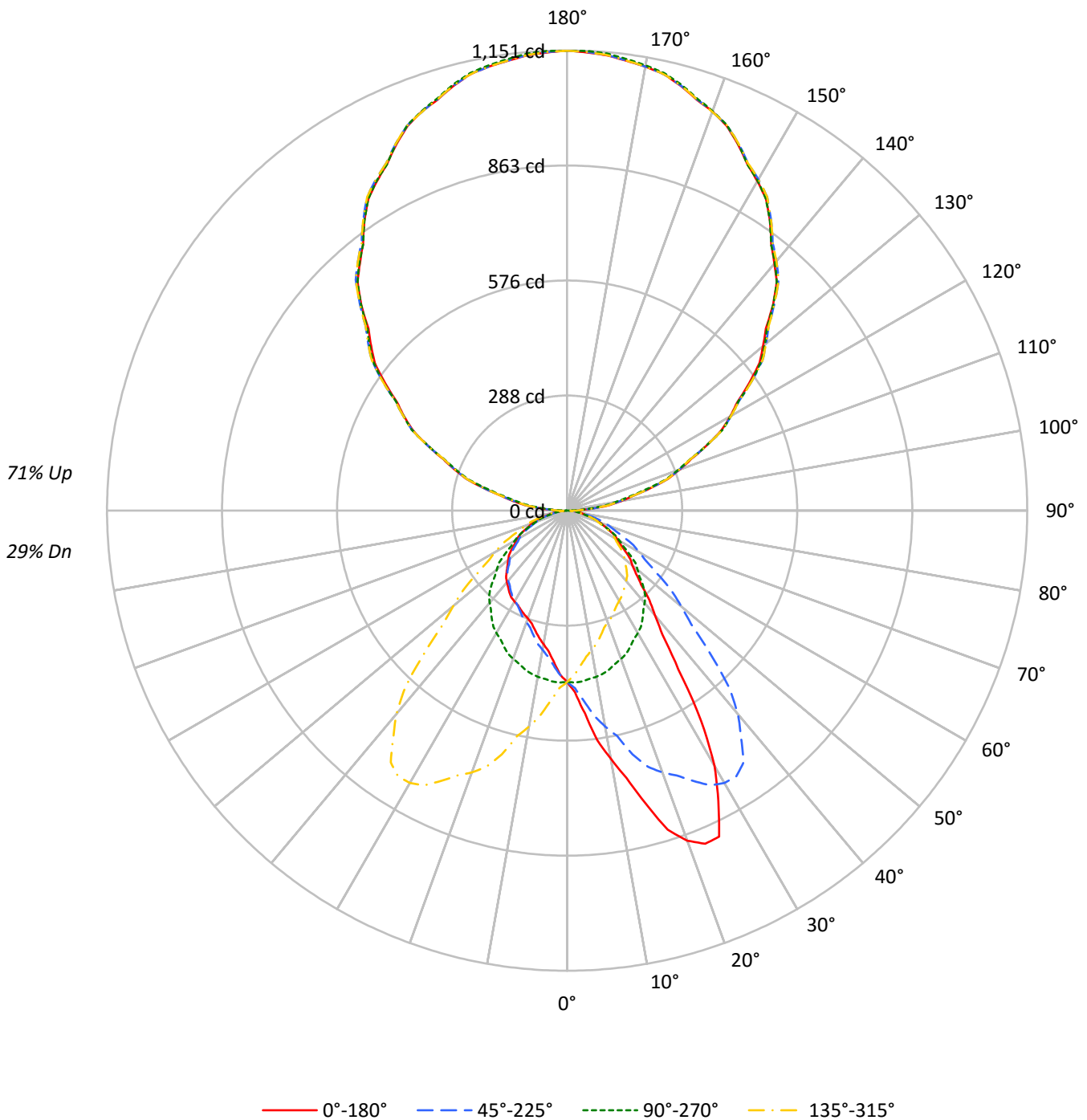
Input Watts (W): 38  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20			20			20			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	91	91	91	91	72	72	72	53	53	53	37	37	37	29
1	93	89	85	82	83	80	77	74	63	61	59	47	46	45	33	32	31	25
2	85	78	72	67	76	70	65	61	55	52	49	42	39	37	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	15
5	65	54	46	40	58	49	42	37	39	34	30	29	26	24	21	19	17	13
6	60	48	40	35	53	44	37	32	35	30	26	27	23	21	19	17	15	12
7	55	43	36	30	49	39	33	28	31	27	23	24	21	18	17	15	13	11
8	51	39	32	27	46	36	29	25	29	24	20	22	19	16	16	14	12	9
9	47	36	29	24	43	32	26	22	26	21	18	20	17	14	15	12	11	8
10	44	33	26	21	40	30	24	19	24	19	16	19	15	13	13	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	0.9
10°-20°	135.4	3.0
20°-30°	227.3	5.1
30°-40°	257.4	5.7
40°-50°	230.8	5.1
50°-60°	186.3	4.2
60°-70°	129.8	2.9
70°-80°	68.2	1.5
80°-90°	20.1	0.4
90°-100°	74.9	1.7
100°-110°	224.2	5.0
110°-120°	381.4	8.5
120°-130°	501.7	11.2
130°-140°	563.9	12.6
140°-150°	554.3	12.4
150°-160°	466.6	10.4
160°-170°	310.6	6.9
170°-180°	108.8	2.4
0°-30°	405.0	9.0
0°-40°	662.4	14.8
0°-60°	1079.4	24.1
0°-90°	1297.5	28.9
90°-120°	680.6	15.2
90°-150°	2300.3	51.3
90°-180°	3186.0	71.1
0°-180°	4483.8	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	53	70	53	70	72
105°	215	203	215	203	215	228
115°	385	384	385	384	385	381
125°	556	562	556	562	556	497
135°	728	729	728	729	728	560
145°	884	884	884	884	884	552
155°	1011	1013	1011	1013	1011	465
165°	1100	1103	1100	1103	1100	310
175°	1143	1147	1143	1147	1143	109
180°	1150	1150	1150	1150	1150	



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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°	10.4	10.0	10.1	10.2	9.9	10.0	10.0	10.0	10.0	10.0	9.6
90°	27.1	26.7	26.3	25.9	25.5	24.9	24.1	23.3	22.5	21.7	19.1
92.5°	36.5	36.7	37.0	37.2	37.5	37.3	36.6	35.9	35.3	34.7	33.2
95°	70.4	70.4	70.4	70.4	70.4	70.1	69.3	68.5	67.7	66.9	65.3
97.5°	108.4	108.5	108.6	108.6	108.7	108.3	107.4	106.5	105.6	104.6	103.4
100°	137.3	136.9	136.5	136.1	135.7	135.2	134.6	134.0	133.4	132.8	131.8
102.5°	166.9	167.0	167.1	167.2	167.3	167.0	166.4	165.8	165.2	164.6	163.3
105°	215.0	214.6	214.2	213.8	213.4	213.2	213.2	213.2	213.2	213.2	211.4
107.5°	265.0	265.3	265.6	265.8	266.0	265.8	265.2	264.6	263.9	263.2	262.5
110°	299.0	299.4	299.8	300.2	300.6	300.4	299.6	298.8	298.0	297.2	296.9



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	335.2	335.3	335.3	335.4	335.5	335.0	334.0	333.1	332.2	331.2	331.1
115°	384.9	385.0	385.2	385.5	385.7	385.7	385.5	385.2	385.0	384.9	385.2
117.5°	435.2	435.8	436.4	436.9	437.5	437.8	437.8	437.9	437.9	438.0	438.5
120°	470.6	471.1	471.4	471.9	472.3	472.6	472.8	473.0	473.1	473.4	474.4
122.5°	504.6	505.2	505.8	506.3	506.8	507.5	507.9	508.5	509.0	509.5	510.1
125°	555.6	556.4	557.2	558.0	558.8	559.6	560.4	561.2	562.0	562.8	563.2
127.5°	606.4	607.3	608.2	609.1	610.0	611.1	612.2	613.3	614.5	615.5	616.0
130°	639.6	641.1	642.4	643.8	645.2	646.3	647.1	647.9	648.7	649.5	650.1
132.5°	674.3	675.4	676.5	677.5	678.7	679.7	680.6	681.6	682.5	683.5	683.9
135°	728.2	728.5	729.0	729.3	729.8	730.3	731.1	731.9	732.7	733.5	733.8
137.5°	775.7	776.4	777.2	777.9	778.7	779.5	780.3	781.2	782.0	782.9	782.4
140°	806.7	808.2	809.6	810.9	812.3	813.2	813.3	813.6	813.8	814.0	813.8
142.5°	838.6	839.6	840.7	841.8	842.8	843.6	843.7	843.9	844.1	844.4	844.0
145°	884.4	885.2	886.0	886.8	887.6	888.1	888.3	888.6	888.8	888.9	888.3
147.5°	925.2	926.5	927.6	928.9	930.1	930.7	930.7	930.7	930.7	930.7	930.1
150°	951.3	952.5	953.7	954.9	956.1	956.7	956.7	956.7	956.7	956.7	956.3
152.5°	976.6	977.6	978.7	979.7	980.8	981.1	980.8	980.4	980.2	979.8	979.6
155°	1010.9	1012.4	1013.7	1015.1	1016.6	1016.8	1016.0	1015.2	1014.4	1013.6	1013.4
157.5°	1042.1	1043.3	1044.5	1045.5	1046.7	1046.8	1046.0	1045.1	1044.3	1043.4	1043.3
160°	1062.4	1063.2	1064.0	1064.8	1065.6	1065.5	1064.5	1063.5	1062.5	1061.5	1061.5
162.5°	1077.5	1078.9	1080.1	1081.5	1082.7	1082.9	1081.8	1080.8	1079.9	1078.9	1078.7
165°	1099.5	1100.8	1102.2	1103.7	1105.1	1105.2	1103.9	1102.8	1101.5	1100.4	1100.4
167.5°	1118.0	1119.3	1120.5	1121.8	1123.0	1123.0	1121.8	1120.5	1119.3	1118.0	1117.9
170°	1127.5	1128.8	1130.2	1131.7	1133.1	1133.1	1131.7	1130.2	1128.8	1127.5	1127.5
172.5°	1134.7	1136.0	1137.5	1138.9	1140.3	1140.4	1139.2	1137.9	1136.7	1135.4	1135.4
175°	1142.8	1144.2	1145.6	1147.0	1148.4	1148.5	1147.4	1146.1	1145.0	1143.7	1143.7
177.5°	1147.2	1148.3	1149.4	1150.5	1151.6	1151.7	1150.8	1149.8	1148.8	1147.9	1147.9
180°	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0



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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°	9.5	9.1	8.0	7.0	6.2	5.3	4.9	4.2	4.3	4.6	4.9
90°	16.5	13.8	11.2	8.9	7.0	4.9	2.9	0.9	2.9	4.9	7.0
92.5°	31.7	30.2	28.7	27.3	25.9	24.6	23.2	21.8	23.2	24.6	25.9
95°	63.7	62.1	60.5	58.9	57.5	56.1	54.7	53.3	54.7	56.1	57.5
97.5°	102.3	101.1	100.0	98.9	97.8	96.8	95.7	94.7	95.7	96.8	97.8
100°	130.8	129.8	128.8	127.7	126.4	125.3	124.0	122.9	124.0	125.3	126.4
102.5°	161.9	160.6	159.3	158.3	157.6	156.9	156.1	155.4	156.1	156.9	157.6
105°	209.6	207.8	206.0	204.9	204.5	204.1	203.7	203.3	203.7	204.1	204.5
107.5°	261.8	261.1	260.4	259.8	259.7	259.4	259.1	259.0	259.1	259.4	259.7
110°	296.4	296.0	295.6	295.2	294.8	294.4	294.0	293.6	294.0	294.4	294.8





TEST NUMBER: P332103-940

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	331.0	330.9	330.8	330.7	330.5	330.2	330.0	329.8	330.0	330.2	330.5
115°	385.7	386.0	386.5	386.4	385.8	385.1	384.5	384.0	384.5	385.1	385.8
117.5°	439.0	439.5	440.1	440.1	439.7	439.3	438.9	438.5	438.9	439.3	439.7
120°	475.4	476.4	477.4	477.3	476.1	474.9	473.7	472.5	473.7	474.9	476.1
122.5°	510.6	511.1	511.6	511.4	510.5	509.7	508.8	507.9	508.8	509.7	510.5
125°	563.7	564.0	564.5	564.4	563.7	563.1	562.5	562.0	562.5	563.1	563.7
127.5°	616.4	616.9	617.3	616.9	615.6	614.4	613.1	611.8	613.1	614.4	615.6
130°	650.8	651.4	651.9	651.5	649.9	648.3	646.7	645.1	646.7	648.3	649.9
132.5°	684.4	684.8	685.3	684.7	683.1	681.4	679.8	678.2	679.8	681.4	683.1
135°	734.0	734.1	734.3	733.9	732.6	731.5	730.2	729.1	730.2	731.5	732.6
137.5°	781.9	781.3	780.8	780.1	779.0	778.0	777.0	776.1	777.0	778.0	779.0
140°	813.6	813.3	813.2	812.5	811.5	810.6	809.6	808.5	809.6	810.6	811.5
142.5°	843.6	843.2	842.8	842.2	841.2	840.2	839.2	838.2	839.2	840.2	841.2
145°	887.8	887.2	886.5	886.0	885.6	885.2	884.8	884.4	884.8	885.2	885.6
147.5°	929.6	929.0	928.4	927.8	927.1	926.3	925.6	924.9	925.6	926.3	927.1
150°	955.9	955.5	955.1	954.7	954.3	953.9	953.5	953.1	953.5	953.9	954.3
152.5°	979.4	979.1	978.8	978.5	977.9	977.3	976.8	976.2	976.8	977.3	977.9
155°	1013.3	1013.0	1012.8	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7
157.5°	1043.1	1042.9	1042.8	1042.9	1043.0	1043.3	1043.6	1043.8	1043.6	1043.3	1043.0
160°	1061.5	1061.5	1061.5	1061.7	1062.1	1062.5	1062.9	1063.3	1062.9	1062.5	1062.1
162.5°	1078.5	1078.3	1078.2	1078.4	1079.0	1079.5	1080.1	1080.7	1080.1	1079.5	1079.0
165°	1100.4	1100.4	1100.4	1100.6	1101.3	1101.9	1102.4	1103.0	1102.4	1101.9	1101.3
167.5°	1117.8	1117.6	1117.4	1117.8	1118.6	1119.4	1120.2	1121.0	1120.2	1119.4	1118.6
170°	1127.5	1127.5	1127.5	1127.8	1128.6	1129.4	1130.2	1131.0	1130.2	1129.4	1128.6
172.5°	1135.4	1135.4	1135.4	1135.8	1136.6	1137.4	1138.2	1139.0	1138.2	1137.4	1136.6
175°	1143.7	1143.7	1143.7	1144.2	1145.0	1145.8	1146.6	1147.4	1146.6	1145.8	1145.0
177.5°	1147.9	1147.9	1147.9	1148.2	1148.8	1149.5	1150.1	1150.8	1150.1	1149.5	1148.8
180°	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0



TEST NUMBER: P332103-940

CATALOG NUMBER: S123DIW-S340D1030U940-4F0-1E-UDD-A1

**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	7.1	7.8	8.0	7.8	7.9	8.6	8.1
90°	8.9	11.2	13.8	16.5	19.1	21.7	22.5	23.3	24.1	24.9	25.5
92.5°	27.3	28.7	30.2	31.7	33.2	34.7	35.3	35.9	36.6	37.3	37.5
95°	58.9	60.5	62.1	63.7	65.3	66.9	67.7	68.5	69.3	70.1	70.4
97.5°	98.9	100.0	101.1	102.3	103.4	104.6	105.6	106.5	107.4	108.3	108.7
100°	127.7	128.8	129.8	130.8	131.8	132.8	133.4	134.0	134.6	135.2	135.7
102.5°	158.3	159.3	160.6	161.9	163.3	164.6	165.2	165.8	166.4	167.0	167.3
105°	204.9	206.0	207.8	209.6	211.4	213.2	213.2	213.2	213.2	213.2	213.4
107.5°	259.8	260.4	261.1	261.8	262.5	263.2	263.9	264.6	265.2	265.8	266.0
110°	295.2	295.6	296.0	296.4	296.9	297.2	298.0	298.8	299.6	300.4	300.6



TEST NUMBER: P332103-940

CATALOG NUMBER: S123DIW-S340D1030U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	330.7	330.8	330.9	331.0	331.1	331.2	332.2	333.1	334.0	335.0	335.5
115°	386.4	386.5	386.0	385.7	385.2	384.9	385.0	385.2	385.5	385.7	385.7
117.5°	440.1	440.1	439.5	439.0	438.5	438.0	437.9	437.9	437.8	437.8	437.5
120°	477.3	477.4	476.4	475.4	474.4	473.4	473.1	473.0	472.8	472.6	472.3
122.5°	511.4	511.6	511.1	510.6	510.1	509.5	509.0	508.5	507.9	507.5	506.8
125°	564.4	564.5	564.0	563.7	563.2	562.8	562.0	561.2	560.4	559.6	558.8
127.5°	616.9	617.3	616.9	616.4	616.0	615.5	614.5	613.3	612.2	611.1	610.0
130°	651.5	651.9	651.4	650.8	650.1	649.5	648.7	647.9	647.1	646.3	645.2
132.5°	684.7	685.3	684.8	684.4	683.9	683.5	682.5	681.6	680.6	679.7	678.7
135°	733.9	734.3	734.1	734.0	733.8	733.5	732.7	731.9	731.1	730.3	729.8
137.5°	780.1	780.8	781.3	781.9	782.4	782.9	782.0	781.2	780.3	779.5	778.7
140°	812.5	813.2	813.3	813.6	813.8	814.0	813.8	813.6	813.3	813.2	812.3
142.5°	842.2	842.8	843.2	843.6	844.0	844.4	844.1	843.9	843.7	843.6	842.8
145°	886.0	886.5	887.2	887.8	888.3	888.9	888.8	888.6	888.3	888.1	887.6
147.5°	927.8	928.4	929.0	929.6	930.1	930.7	930.7	930.7	930.7	930.7	930.1
150°	954.7	955.1	955.5	955.9	956.3	956.7	956.7	956.7	956.7	956.7	956.1
152.5°	978.5	978.8	979.1	979.4	979.6	979.8	980.2	980.4	980.8	981.1	980.8
155°	1012.7	1012.8	1013.0	1013.3	1013.4	1013.6	1014.4	1015.2	1016.0	1016.8	1016.6
157.5°	1042.9	1042.8	1042.9	1043.1	1043.3	1043.4	1044.3	1045.1	1046.0	1046.8	1046.7
160°	1061.7	1061.5	1061.5	1061.5	1061.5	1061.5	1062.5	1063.5	1064.5	1065.5	1065.6
162.5°	1078.4	1078.2	1078.3	1078.5	1078.7	1078.9	1079.9	1080.8	1081.8	1082.9	1082.7
165°	1100.6	1100.4	1100.4	1100.4	1100.4	1100.4	1101.5	1102.8	1103.9	1105.2	1105.1
167.5°	1117.8	1117.4	1117.6	1117.8	1117.9	1118.0	1119.3	1120.5	1121.8	1123.0	1123.0
170°	1127.8	1127.5	1127.5	1127.5	1127.5	1127.5	1128.8	1130.2	1131.7	1133.1	1133.1
172.5°	1135.8	1135.4	1135.4	1135.4	1135.4	1135.4	1136.7	1137.9	1139.2	1140.4	1140.3
175°	1144.2	1143.7	1143.7	1143.7	1143.7	1143.7	1145.0	1146.1	1147.4	1148.5	1148.4
177.5°	1148.2	1147.9	1147.9	1147.9	1147.9	1147.9	1148.8	1149.8	1150.8	1151.7	1151.6
180°	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0



TEST NUMBER: P332103-940

CATALOG NUMBER: S123DIW-S340D1030U940-4F0-1E-UDD-A1

**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°	8.2	8.3	8.2	8.1	8.2	8.3	8.2	8.1	8.6	7.9	7.8
90°	25.9	26.3	26.7	27.1	26.7	26.3	25.9	25.5	24.9	24.1	23.3
92.5°	37.2	37.0	36.7	36.5	36.7	37.0	37.2	37.5	37.3	36.6	35.9
95°	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.1	69.3	68.5
97.5°	108.6	108.6	108.5	108.4	108.5	108.6	108.6	108.7	108.3	107.4	106.5
100°	136.1	136.5	136.9	137.3	136.9	136.5	136.1	135.7	135.2	134.6	134.0
102.5°	167.2	167.1	167.0	166.9	167.0	167.1	167.2	167.3	167.0	166.4	165.8
105°	213.8	214.2	214.6	215.0	214.6	214.2	213.8	213.4	213.2	213.2	213.2
107.5°	265.8	265.6	265.3	265.0	265.3	265.6	265.8	266.0	265.8	265.2	264.6
110°	300.2	299.8	299.4	299.0	299.4	299.8	300.2	300.6	300.4	299.6	298.8



TEST NUMBER: P332103-940

CATALOG NUMBER: S123DIW-S340D1030U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	335.4	335.3	335.3	335.2	335.3	335.3	335.4	335.5	335.0	334.0	333.1
115°	385.5	385.2	385.0	384.9	385.0	385.2	385.5	385.7	385.7	385.5	385.2
117.5°	436.9	436.4	435.8	435.2	435.8	436.4	436.9	437.5	437.8	437.8	437.9
120°	471.9	471.4	471.1	470.6	471.1	471.4	471.9	472.3	472.6	472.8	473.0
122.5°	506.3	505.8	505.2	504.6	505.2	505.8	506.3	506.8	507.5	507.9	508.5
125°	558.0	557.2	556.4	555.6	556.4	557.2	558.0	558.8	559.6	560.4	561.2
127.5°	609.1	608.2	607.3	606.4	607.3	608.2	609.1	610.0	611.1	612.2	613.3
130°	643.8	642.4	641.1	639.6	641.1	642.4	643.8	645.2	646.3	647.1	647.9
132.5°	677.5	676.5	675.4	674.3	675.4	676.5	677.5	678.7	679.7	680.6	681.6
135°	729.3	729.0	728.5	728.2	728.5	729.0	729.3	729.8	730.3	731.1	731.9
137.5°	777.9	777.2	776.4	775.7	776.4	777.2	777.9	778.7	779.5	780.3	781.2
140°	810.9	809.6	808.2	806.7	808.2	809.6	810.9	812.3	813.2	813.3	813.6
142.5°	841.8	840.7	839.6	838.6	839.6	840.7	841.8	842.8	843.6	843.7	843.9
145°	886.8	886.0	885.2	884.4	885.2	886.0	886.8	887.6	888.1	888.3	888.6
147.5°	928.9	927.6	926.5	925.2	926.5	927.6	928.9	930.1	930.7	930.7	930.7
150°	954.9	953.7	952.5	951.3	952.5	953.7	954.9	956.1	956.7	956.7	956.7
152.5°	979.7	978.7	977.6	976.6	977.6	978.7	979.7	980.8	981.1	980.8	980.4
155°	1015.1	1013.7	1012.4	1010.9	1012.4	1013.7	1015.1	1016.6	1016.8	1016.0	1015.2
157.5°	1045.5	1044.5	1043.3	1042.1	1043.3	1044.5	1045.5	1046.7	1046.8	1046.0	1045.1
160°	1064.8	1064.0	1063.2	1062.4	1063.2	1064.0	1064.8	1065.6	1065.5	1064.5	1063.5
162.5°	1081.5	1080.1	1078.9	1077.5	1078.9	1080.1	1081.5	1082.7	1082.9	1081.8	1080.8
165°	1103.7	1102.2	1100.8	1099.5	1100.8	1102.2	1103.7	1105.1	1105.2	1103.9	1102.8
167.5°	1121.8	1120.5	1119.3	1118.0	1119.3	1120.5	1121.8	1123.0	1123.0	1121.8	1120.5
170°	1131.7	1130.2	1128.8	1127.5	1128.8	1130.2	1131.7	1133.1	1133.1	1131.7	1130.2
172.5°	1138.9	1137.5	1136.0	1134.7	1136.0	1137.5	1138.9	1140.3	1140.4	1139.2	1137.9
175°	1147.0	1145.6	1144.2	1142.8	1144.2	1145.6	1147.0	1148.4	1148.5	1147.4	1146.1
177.5°	1150.5	1149.4	1148.3	1147.2	1148.3	1149.4	1150.5	1151.6	1151.7	1150.8	1149.8
180°	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0



TEST NUMBER: P332103-940

CATALOG NUMBER: S123DIW-S340D1030U940-4F0-1E-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°	8.0	7.8	7.1	6.8	6.1	5.7	5.1	4.9	4.6	4.3	4.2
90°	22.5	21.7	19.1	16.5	13.8	11.2	8.9	7.0	4.9	2.9	0.9
92.5°	35.3	34.7	33.2	31.7	30.2	28.7	27.3	25.9	24.6	23.2	21.8
95°	67.7	66.9	65.3	63.7	62.1	60.5	58.9	57.5	56.1	54.7	53.3
97.5°	105.6	104.6	103.4	102.3	101.1	100.0	98.9	97.8	96.8	95.7	94.7
100°	133.4	132.8	131.8	130.8	129.8	128.8	127.7	126.4	125.3	124.0	122.9
102.5°	165.2	164.6	163.3	161.9	160.6	159.3	158.3	157.6	156.9	156.1	155.4
105°	213.2	213.2	211.4	209.6	207.8	206.0	204.9	204.5	204.1	203.7	203.3
107.5°	263.9	263.2	262.5	261.8	261.1	260.4	259.8	259.7	259.4	259.1	259.0
110°	298.0	297.2	296.9	296.4	296.0	295.6	295.2	294.8	294.4	294.0	293.6



TEST NUMBER: P332103-940

CATALOG NUMBER: S123DIW-S340D1030U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	332.2	331.2	331.1	331.0	330.9	330.8	330.7	330.5	330.2	330.0	329.8
115°	385.0	384.9	385.2	385.7	386.0	386.5	386.4	385.8	385.1	384.5	384.0
117.5°	437.9	438.0	438.5	439.0	439.5	440.1	440.1	439.7	439.3	438.9	438.5
120°	473.1	473.4	474.4	475.4	476.4	477.4	477.3	476.1	474.9	473.7	472.5
122.5°	509.0	509.5	510.1	510.6	511.1	511.6	511.4	510.5	509.7	508.8	507.9
125°	562.0	562.8	563.2	563.7	564.0	564.5	564.4	563.7	563.1	562.5	562.0
127.5°	614.5	615.5	616.0	616.4	616.9	617.3	616.9	615.6	614.4	613.1	611.8
130°	648.7	649.5	650.1	650.8	651.4	651.9	651.5	649.9	648.3	646.7	645.1
132.5°	682.5	683.5	683.9	684.4	684.8	685.3	684.7	683.1	681.4	679.8	678.2
135°	732.7	733.5	733.8	734.0	734.1	734.3	733.9	732.6	731.5	730.2	729.1
137.5°	782.0	782.9	782.4	781.9	781.3	780.8	780.1	779.0	778.0	777.0	776.1
140°	813.8	814.0	813.8	813.6	813.3	813.2	812.5	811.5	810.6	809.6	808.5
142.5°	844.1	844.4	844.0	843.6	843.2	842.8	842.2	841.2	840.2	839.2	838.2
145°	888.8	888.9	888.3	887.8	887.2	886.5	886.0	885.6	885.2	884.8	884.4
147.5°	930.7	930.7	930.1	929.6	929.0	928.4	927.8	927.1	926.3	925.6	924.9
150°	956.7	956.7	956.3	955.9	955.5	955.1	954.7	954.3	953.9	953.5	953.1
152.5°	980.2	979.8	979.6	979.4	979.1	978.8	978.5	977.9	977.3	976.8	976.2
155°	1014.4	1013.6	1013.4	1013.3	1013.0	1012.8	1012.7	1012.7	1012.7	1012.7	1012.7
157.5°	1044.3	1043.4	1043.3	1043.1	1042.9	1042.8	1042.9	1043.0	1043.3	1043.6	1043.8
160°	1062.5	1061.5	1061.5	1061.5	1061.5	1061.5	1061.7	1062.1	1062.5	1062.9	1063.3
162.5°	1079.9	1078.9	1078.7	1078.5	1078.3	1078.2	1078.4	1079.0	1079.5	1080.1	1080.7
165°	1101.5	1100.4	1100.4	1100.4	1100.4	1100.4	1100.6	1101.3	1101.9	1102.4	1103.0
167.5°	1119.3	1118.0	1117.9	1117.8	1117.6	1117.4	1117.8	1118.6	1119.4	1120.2	1121.0
170°	1128.8	1127.5	1127.5	1127.5	1127.5	1127.5	1127.8	1128.6	1129.4	1130.2	1131.0
172.5°	1136.7	1135.4	1135.4	1135.4	1135.4	1135.4	1135.8	1136.6	1137.4	1138.2	1139.0
175°	1145.0	1143.7	1143.7	1143.7	1143.7	1143.7	1144.2	1145.0	1145.8	1146.6	1147.4
177.5°	1148.8	1147.9	1147.9	1147.9	1147.9	1147.9	1148.2	1148.8	1149.5	1150.1	1150.8
180°	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0



TEST NUMBER: P332103-940

CATALOG NUMBER: S123DIW-S340D1030U940-4F0-1E-UDD-A1

**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	9.1	9.5	9.6	10.0	10.0	10.0
90°	2.9	4.9	7.0	8.9	11.2	13.8	16.5	19.1	21.7	22.5	23.3
92.5°	23.2	24.6	25.9	27.3	28.7	30.2	31.7	33.2	34.7	35.3	35.9
95°	54.7	56.1	57.5	58.9	60.5	62.1	63.7	65.3	66.9	67.7	68.5
97.5°	95.7	96.8	97.8	98.9	100.0	101.1	102.3	103.4	104.6	105.6	106.5
100°	124.0	125.3	126.4	127.7	128.8	129.8	130.8	131.8	132.8	133.4	134.0
102.5°	156.1	156.9	157.6	158.3	159.3	160.6	161.9	163.3	164.6	165.2	165.8
105°	203.7	204.1	204.5	204.9	206.0	207.8	209.6	211.4	213.2	213.2	213.2
107.5°	259.1	259.4	259.7	259.8	260.4	261.1	261.8	262.5	263.2	263.9	264.6
110°	294.0	294.4	294.8	295.2	295.6	296.0	296.4	296.9	297.2	298.0	298.8





TEST NUMBER: P332103-940

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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	330.0	330.2	330.5	330.7	330.8	330.9	331.0	331.1	331.2	332.2	333.1
115°	384.5	385.1	385.8	386.4	386.5	386.0	385.7	385.2	384.9	385.0	385.2
117.5°	438.9	439.3	439.7	440.1	440.1	439.5	439.0	438.5	438.0	437.9	437.9
120°	473.7	474.9	476.1	477.3	477.4	476.4	475.4	474.4	473.4	473.1	473.0
122.5°	508.8	509.7	510.5	511.4	511.6	511.1	510.6	510.1	509.5	509.0	508.5
125°	562.5	563.1	563.7	564.4	564.5	564.0	563.7	563.2	562.8	562.0	561.2
127.5°	613.1	614.4	615.6	616.9	617.3	616.9	616.4	616.0	615.5	614.5	613.3
130°	646.7	648.3	649.9	651.5	651.9	651.4	650.8	650.1	649.5	648.7	647.9
132.5°	679.8	681.4	683.1	684.7	685.3	684.8	684.4	683.9	683.5	682.5	681.6
135°	730.2	731.5	732.6	733.9	734.3	734.1	734.0	733.8	733.5	732.7	731.9
137.5°	777.0	778.0	779.0	780.1	780.8	781.3	781.9	782.4	782.9	782.0	781.2
140°	809.6	810.6	811.5	812.5	813.2	813.3	813.6	813.8	814.0	813.8	813.6
142.5°	839.2	840.2	841.2	842.2	842.8	843.2	843.6	844.0	844.4	844.1	843.9
145°	884.8	885.2	885.6	886.0	886.5	887.2	887.8	888.3	888.9	888.8	888.6
147.5°	925.6	926.3	927.1	927.8	928.4	929.0	929.6	930.1	930.7	930.7	930.7
150°	953.5	953.9	954.3	954.7	955.1	955.5	955.9	956.3	956.7	956.7	956.7
152.5°	976.8	977.3	977.9	978.5	978.8	979.1	979.4	979.6	979.8	980.2	980.4
155°	1012.7	1012.7	1012.7	1012.7	1012.8	1013.0	1013.3	1013.4	1013.6	1014.4	1015.2
157.5°	1043.6	1043.3	1043.0	1042.9	1042.8	1042.9	1043.1	1043.3	1043.4	1044.3	1045.1
160°	1062.9	1062.5	1062.1	1061.7	1061.5	1061.5	1061.5	1061.5	1061.5	1062.5	1063.5
162.5°	1080.1	1079.5	1079.0	1078.4	1078.2	1078.3	1078.5	1078.7	1078.9	1079.9	1080.8
165°	1102.4	1101.9	1101.3	1100.6	1100.4	1100.4	1100.4	1100.4	1100.4	1101.5	1102.8
167.5°	1120.2	1119.4	1118.6	1117.8	1117.4	1117.6	1117.8	1117.9	1118.0	1119.3	1120.5
170°	1130.2	1129.4	1128.6	1127.8	1127.5	1127.5	1127.5	1127.5	1127.5	1128.8	1130.2
172.5°	1138.2	1137.4	1136.6	1135.8	1135.4	1135.4	1135.4	1135.4	1135.4	1136.7	1137.9
175°	1146.6	1145.8	1145.0	1144.2	1143.7	1143.7	1143.7	1143.7	1143.7	1145.0	1146.1
177.5°	1150.1	1149.5	1148.8	1148.2	1147.9	1147.9	1147.9	1147.9	1147.9	1148.8	1149.8
180°	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0



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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°	10.0	10.0	9.9	10.2	10.1	10.0	10.4
90°	24.1	24.9	25.5	25.9	26.3	26.7	27.1
92.5°	36.6	37.3	37.5	37.2	37.0	36.7	36.5
95°	69.3	70.1	70.4	70.4	70.4	70.4	70.4
97.5°	107.4	108.3	108.7	108.6	108.6	108.5	108.4
100°	134.6	135.2	135.7	136.1	136.5	136.9	137.3
102.5°	166.4	167.0	167.3	167.2	167.1	167.0	166.9
105°	213.2	213.2	213.4	213.8	214.2	214.6	215.0
107.5°	265.2	265.8	266.0	265.8	265.6	265.3	265.0
110°	299.6	300.4	300.6	300.2	299.8	299.4	299.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	334.0	335.0	335.5	335.4	335.3	335.3	335.2
115°	385.5	385.7	385.7	385.5	385.2	385.0	384.9
117.5°	437.8	437.8	437.5	436.9	436.4	435.8	435.2
120°	472.8	472.6	472.3	471.9	471.4	471.1	470.6
122.5°	507.9	507.5	506.8	506.3	505.8	505.2	504.6
125°	560.4	559.6	558.8	558.0	557.2	556.4	555.6
127.5°	612.2	611.1	610.0	609.1	608.2	607.3	606.4
130°	647.1	646.3	645.2	643.8	642.4	641.1	639.6
132.5°	680.6	679.7	678.7	677.5	676.5	675.4	674.3
135°	731.1	730.3	729.8	729.3	729.0	728.5	728.2
137.5°	780.3	779.5	778.7	777.9	777.2	776.4	775.7
140°	813.3	813.2	812.3	810.9	809.6	808.2	806.7
142.5°	843.7	843.6	842.8	841.8	840.7	839.6	838.6
145°	888.3	888.1	887.6	886.8	886.0	885.2	884.4
147.5°	930.7	930.7	930.1	928.9	927.6	926.5	925.2
150°	956.7	956.7	956.1	954.9	953.7	952.5	951.3
152.5°	980.8	981.1	980.8	979.7	978.7	977.6	976.6
155°	1016.0	1016.8	1016.6	1015.1	1013.7	1012.4	1010.9
157.5°	1046.0	1046.8	1046.7	1045.5	1044.5	1043.3	1042.1
160°	1064.5	1065.5	1065.6	1064.8	1064.0	1063.2	1062.4
162.5°	1081.8	1082.9	1082.7	1081.5	1080.1	1078.9	1077.5
165°	1103.9	1105.2	1105.1	1103.7	1102.2	1100.8	1099.5
167.5°	1121.8	1123.0	1123.0	1121.8	1120.5	1119.3	1118.0
170°	1131.7	1133.1	1133.1	1131.7	1130.2	1128.8	1127.5
172.5°	1139.2	1140.4	1140.3	1138.9	1137.5	1136.0	1134.7
175°	1147.4	1148.5	1148.4	1147.0	1145.6	1144.2	1142.8
177.5°	1150.8	1151.7	1151.6	1150.5	1149.4	1148.3	1147.2
180°	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0

(END OF REPORT)