

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: P332133-940

Luminaire Tested: **S123DIW-S560D1030U940-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332133-940
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-S560D1030U940-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 560 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: 5317.3 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

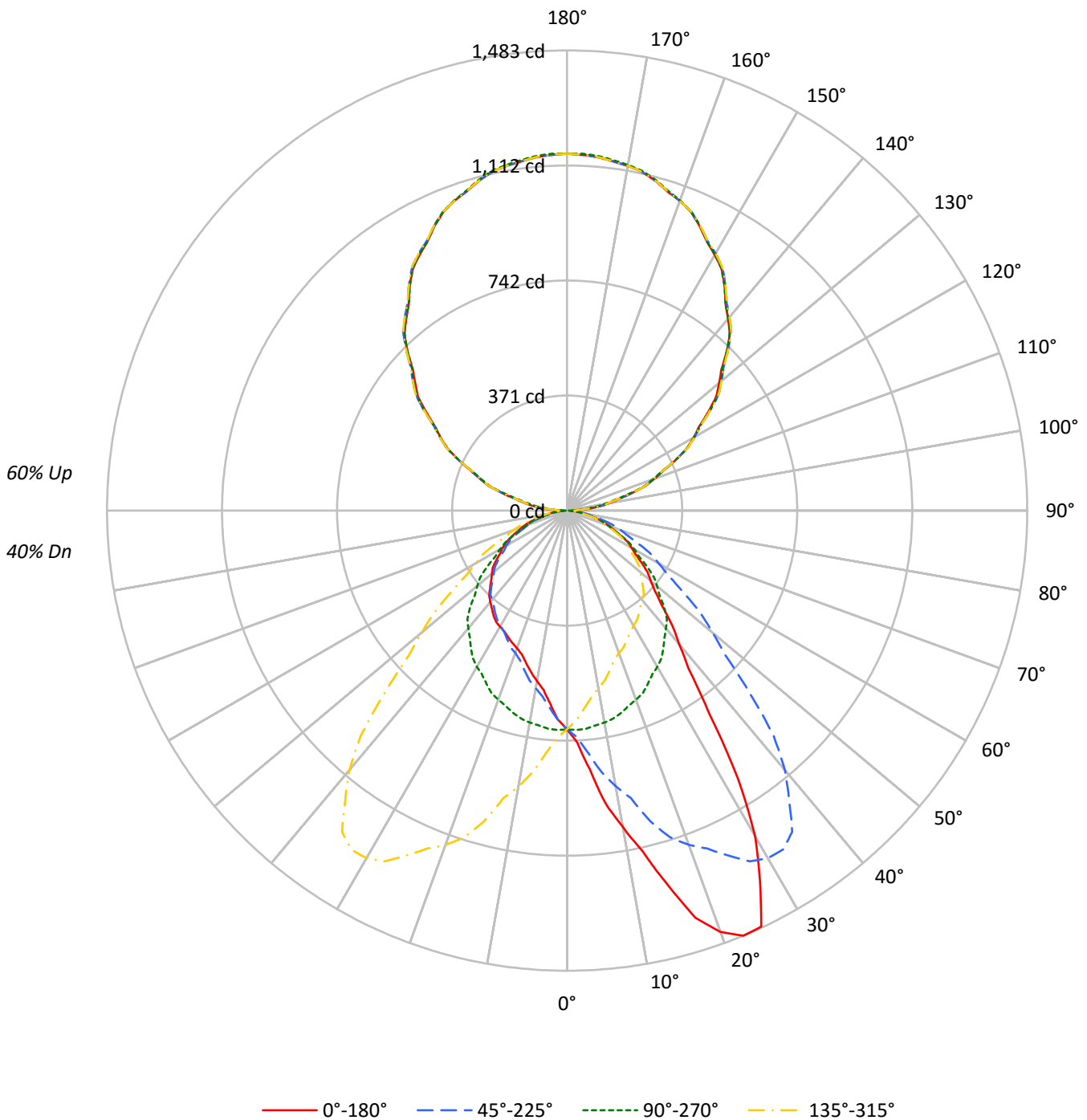
Input Watts (W): 45.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47	40				
1	96	92	88	84	87	84	80	78	68	66	64	55	53	52	42	41	40	34				
2	87	80	74	69	79	73	68	64	60	57	53	48	46	44	37	35	34	29				
3	80	71	64	58	72	65	58	54	53	49	45	43	40	37	33	31	29	25				
4	73	63	55	49	66	57	51	45	47	42	39	38	35	32	30	27	25	21				
5	67	56	48	42	61	51	44	39	42	37	33	34	31	28	27	24	22	19				
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	22	19	16				
7	57	45	37	32	52	41	35	30	35	29	26	28	24	21	22	19	17	15				
8	53	41	33	28	48	38	31	26	31	26	23	26	22	19	20	18	16	13				
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12				
10	46	34	27	22	42	31	25	21	26	22	18	22	18	15	17	15	13	11				

AVERAGE LUMINANCE (cd/sqm):

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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.4	1.3
10°-20°	222.7	4.2
20°-30°	373.7	7.0
30°-40°	423.1	8.0
40°-50°	379.5	7.1
50°-60°	306.2	5.8
60°-70°	213.4	4.0
70°-80°	112.2	2.1
80°-90°	30.8	0.6
90°-100°	74.9	1.4
100°-110°	224.2	4.2
110°-120°	381.4	7.2
120°-130°	501.7	9.4
130°-140°	563.9	10.6
140°-150°	554.3	10.4
150°-160°	466.6	8.8
160°-170°	310.6	5.8
170°-180°	108.8	2.0
0°-30°	665.8	12.5
0°-40°	1088.9	20.5
0°-60°	1774.6	33.4
0°-90°	2130.9	40.1
90°-120°	680.6	12.8
90°-150°	2300.3	43.3
90°-180°	3186.0	59.9
0°-180°	5317.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	705	705	705	705	705	
5°	837	705	625	705	837	87
15°	1246	675	510	675	1246	360
25°	1479	616	450	616	1479	649
35°	797	541	413	541	797	518
45°	430	444	351	444	430	340
55°	292	312	279	312	292	262
65°	190	193	197	193	190	189
75°	98	92	105	92	98	105
85°	23	18	20	18	23	27
90°	27	1	27	1	27	14
95°	70	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°	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	748.1	747.5	746.2	747.3	745.0	742.1	741.8	739.0	731.1	730.6	728.4
5°	837.4	834.6	834.4	834.0	829.2	822.7	810.4	809.4	793.0	784.8	774.9
7.5°	953.1	954.6	949.6	945.2	930.6	921.0	907.8	890.9	870.8	850.3	836.7
10°	1036.2	1047.4	1033.4	1023.9	1015.0	998.3	978.8	954.6	930.3	902.0	880.5
12.5°	1125.2	1130.8	1128.0	1118.9	1105.2	1079.7	1045.2	1018.5	996.1	949.0	929.9
15°	1246.5	1267.4	1254.1	1223.3	1224.1	1199.8	1154.7	1105.2	1078.9	1037.5	981.1
17.5°	1375.8	1378.4	1372.7	1347.1	1330.0	1296.7	1255.1	1207.6	1154.3	1104.4	1044.6
20°	1444.7	1442.6	1430.7	1417.3	1387.9	1362.0	1316.5	1263.6	1195.3	1146.1	1080.9
22.5°	1482.9	1479.4	1473.8	1462.7	1438.2	1410.3	1369.6	1311.7	1246.7	1178.9	1103.6
25°	1479.4	1483.9	1484.6	1481.5	1473.0	1456.3	1424.2	1378.0	1313.1	1226.1	1147.5
27.5°	1345.6	1351.8	1370.1	1386.3	1404.4	1422.8	1420.4	1397.5	1349.5	1274.3	1178.2
30°	1211.7	1198.0	1231.9	1274.5	1303.6	1354.8	1383.5	1385.2	1358.3	1293.7	1200.1
32.5°	1025.9	1041.0	1055.9	1108.4	1171.9	1229.4	1286.5	1332.5	1337.7	1294.8	1212.9
35°	797.1	815.9	843.2	870.6	938.9	997.6	1098.0	1185.4	1255.1	1264.3	1214.1
37.5°	642.3	651.7	668.9	696.2	740.9	810.7	888.3	998.8	1099.7	1174.8	1178.1
40°	561.4	564.2	583.6	604.5	640.7	698.0	768.1	865.8	986.7	1091.5	1135.2
42.5°	500.8	506.8	515.1	535.1	563.9	607.1	672.2	753.0	863.7	984.4	1069.9
45°	430.3	437.1	442.3	455.6	476.1	505.1	550.5	624.3	708.6	833.3	948.4
47.5°	383.7	384.2	388.1	398.1	412.1	433.9	466.0	513.4	590.8	691.9	810.1
50°	350.4	355.9	357.2	365.1	376.0	392.1	418.7	459.0	522.5	611.4	720.0
52.5°	326.9	328.5	332.3	338.0	347.6	360.1	383.2	414.7	464.6	540.3	640.2
55°	292.3	292.3	296.1	300.5	306.0	317.3	332.6	355.9	393.8	452.5	535.2
57.5°	260.4	262.1	264.7	266.1	270.7	278.2	291.1	308.7	337.0	382.2	447.9
60°	239.1	242.1	241.8	244.5	248.6	254.4	265.4	279.7	305.0	341.2	396.5
62.5°	220.5	220.3	220.3	223.5	227.6	233.1	240.2	252.6	274.1	306.2	353.3
65°	189.8	189.2	191.6	193.7	195.0	199.1	204.6	215.5	229.9	253.8	290.3
67.5°	162.7	160.7	162.0	162.7	165.1	168.3	173.3	180.1	191.5	210.7	238.3
70°	144.1	142.4	142.0	142.8	144.8	147.2	151.0	157.5	168.0	183.4	203.6
72.5°	125.0	123.9	123.8	125.3	126.3	127.8	130.5	136.4	144.8	156.3	175.1
75°	97.6	97.6	97.6	98.0	99.1	100.4	102.5	105.5	112.0	120.2	132.9
77.5°	73.2	73.1	72.8	72.7	74.2	74.8	75.3	78.1	81.8	87.3	96.5
80°	57.3	55.6	56.4	57.3	58.1	58.4	59.4	60.1	63.2	66.3	72.8
82.5°	42.6	41.2	41.3	42.9	43.1	43.3	44.4	45.4	46.5	49.3	52.8
85°	22.6	22.6	22.9	22.9	23.2	22.9	23.9	24.3	24.3	25.9	28.0
87.5°	13.6	13.0	13.2	13.4	13.0	13.2	13.3	13.4	13.6	13.6	13.4
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°	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	726.7	724.6	722.4	718.5	715.2	710.6	709.3	707.7	702.8	698.3	695.1
5°	771.2	762.9	751.0	740.0	731.2	719.3	712.4	705.3	695.0	685.8	678.2
7.5°	817.6	801.5	782.9	762.9	744.1	726.0	711.5	698.6	684.2	670.6	660.0
10°	854.5	831.3	805.3	777.3	753.4	730.1	710.7	693.7	675.2	659.2	645.8
12.5°	896.5	862.1	826.3	792.3	764.0	731.8	708.3	686.5	665.7	646.3	631.3
15°	946.4	902.7	860.3	813.5	770.4	730.1	702.1	674.8	650.6	630.8	611.6
17.5°	991.7	942.2	886.4	829.5	777.6	729.8	690.5	659.7	629.4	605.1	586.0
20°	1017.4	961.0	897.9	838.7	781.4	728.1	685.1	648.2	615.5	589.8	568.3
22.5°	1039.6	973.6	908.2	845.1	781.1	723.7	675.0	637.0	601.5	576.4	553.6
25°	1062.5	983.6	918.0	843.9	772.5	713.1	658.4	615.5	579.9	550.5	527.0
27.5°	1082.2	982.9	905.1	825.4	759.0	699.5	641.1	594.9	557.2	525.3	501.4
30°	1095.3	984.3	891.7	812.8	745.9	684.4	627.7	581.3	541.6	509.2	486.7
32.5°	1103.5	983.5	879.4	795.3	725.1	670.7	613.2	565.2	524.4	492.6	470.8
35°	1108.2	977.4	858.3	759.2	691.6	638.6	590.5	540.6	497.9	468.2	443.6
37.5°	1098.7	964.8	833.7	724.3	650.3	598.2	557.7	515.2	474.4	441.7	420.4
40°	1083.6	956.6	814.5	699.8	621.9	571.7	537.3	495.5	455.2	424.2	404.4
42.5°	1055.0	940.0	793.5	672.4	592.4	542.2	510.4	475.6	437.5	408.3	388.5
45°	985.0	903.7	762.0	631.5	548.8	497.0	469.0	443.6	409.1	380.8	363.7
47.5°	887.8	849.1	716.3	588.3	503.4	453.4	424.3	403.9	378.7	355.9	339.5
50°	820.4	804.3	685.5	558.7	473.0	424.2	396.2	377.7	359.6	336.7	321.7
52.5°	742.4	752.3	649.3	528.2	442.1	394.1	367.7	353.1	336.7	317.9	304.8
55°	632.8	668.7	587.1	476.8	396.2	350.4	325.5	312.5	302.9	288.9	277.7
57.5°	530.2	575.8	519.7	423.8	351.0	311.6	287.7	273.5	267.3	260.0	251.2
60°	469.2	514.3	471.6	388.3	320.7	283.1	262.0	250.0	243.9	238.7	231.2
62.5°	414.9	460.5	424.6	352.2	290.9	256.1	237.6	226.0	221.1	218.5	212.0
65°	340.2	379.4	355.5	296.1	248.3	217.6	200.8	192.6	188.2	187.2	183.1
67.5°	276.9	306.7	289.4	245.6	207.9	181.4	167.2	160.2	156.9	156.5	153.4
70°	235.3	263.3	250.0	210.4	177.9	157.1	144.8	138.7	136.6	136.3	134.6
72.5°	203.0	222.6	212.0	179.0	153.9	135.0	125.9	119.5	117.2	117.7	116.5
75°	150.3	165.0	158.8	135.9	115.7	103.4	95.9	91.8	89.8	90.9	89.4
77.5°	108.2	117.4	111.9	96.0	83.6	74.7	69.2	66.7	64.8	64.7	64.1
80°	81.6	87.1	84.0	74.5	64.2	56.7	52.3	50.6	49.5	49.2	48.9
82.5°	58.1	62.8	59.1	52.6	45.7	41.1	38.6	36.4	35.6	35.8	35.5
85°	29.3	31.1	29.7	25.6	22.9	20.9	19.4	18.5	17.7	18.1	17.4
87.5°	13.4	13.1	11.8	10.3	9.3	8.1	7.7	6.8	6.6	7.0	7.1
90°	16.5	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: P332133-940

CATALOG NUMBER: S123DIW-S560D1030U940-4F0-1E-UDD-A1

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: P332133-940

CATALOG NUMBER: S123DIW-S560D1030U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	693.1	691.3	688.5	684.4	681.1	675.9	675.9	676.7	676.7	676.5	675.9
5°	672.1	667.0	660.8	653.7	646.1	638.6	637.3	634.5	632.5	631.2	629.5
7.5°	649.9	640.9	631.9	621.9	612.7	605.1	599.9	595.5	592.6	589.7	587.5
10°	634.9	623.6	613.1	602.4	590.8	581.6	575.8	571.7	568.6	565.9	564.5
12.5°	617.2	604.2	592.5	582.5	569.8	560.3	554.7	552.9	549.2	543.5	540.5
15°	591.2	579.3	565.3	549.8	543.7	532.1	525.6	522.5	520.5	516.0	514.7
17.5°	569.0	553.3	537.6	526.1	514.7	505.3	501.7	497.8	495.2	491.5	490.4
20°	551.3	537.3	522.9	510.6	498.6	488.4	485.3	482.6	479.8	478.1	476.8
22.5°	533.2	519.2	507.3	495.8	483.0	476.4	473.0	470.0	468.1	466.9	465.6
25°	507.8	495.5	482.2	472.0	461.7	457.3	455.2	453.5	452.2	450.5	450.1
27.5°	485.2	471.8	461.0	451.4	444.1	440.3	438.4	437.6	437.8	438.5	438.8
30°	468.2	455.9	447.0	438.8	432.0	428.6	428.3	428.3	429.6	430.0	430.7
32.5°	452.6	442.6	433.6	425.7	420.5	418.2	419.5	419.5	420.6	421.5	422.8
35°	430.0	421.1	414.3	407.4	403.0	404.0	404.7	405.4	407.1	409.1	410.5
37.5°	408.3	400.6	393.5	388.2	386.1	388.0	389.6	391.0	393.1	394.6	395.9
40°	392.7	386.9	380.1	375.3	376.0	377.0	378.4	380.1	381.8	382.8	384.2
42.5°	378.3	372.2	367.0	363.0	364.0	365.3	366.1	367.0	369.0	370.9	371.7
45°	356.2	351.4	346.6	344.3	344.9	345.6	346.3	347.3	349.0	350.4	350.7
47.5°	331.4	328.1	324.9	322.5	323.6	323.3	324.2	326.5	327.0	327.8	329.7
50°	315.6	312.5	308.7	308.1	308.1	308.1	308.4	311.1	311.1	312.5	313.9
52.5°	298.1	296.1	293.7	292.5	291.9	291.9	293.4	294.7	295.2	297.2	298.5
55°	272.2	270.1	268.1	267.1	266.4	267.1	269.8	270.5	272.2	273.2	274.2
57.5°	245.2	243.6	242.0	241.5	241.3	242.2	243.7	245.8	246.2	249.3	250.8
60°	227.5	225.1	223.7	223.7	223.0	226.0	225.4	228.8	229.5	231.6	234.0
62.5°	209.1	205.9	205.4	205.4	206.3	207.2	208.2	209.7	211.5	214.1	215.9
65°	179.7	177.9	180.3	179.9	179.3	181.4	181.4	183.1	185.1	187.5	191.3
67.5°	151.7	150.8	151.1	151.1	152.0	153.2	154.2	155.7	158.1	160.7	163.1
70°	132.9	133.8	132.2	133.6	134.6	134.9	135.5	137.6	140.4	142.0	144.8
72.5°	114.6	114.5	114.7	115.2	116.3	116.9	117.5	119.8	122.9	124.3	126.5
75°	88.1	87.7	88.8	88.8	90.5	91.2	91.8	92.9	95.6	97.6	99.4
77.5°	64.4	64.7	64.6	65.7	65.3	65.4	67.5	68.5	68.8	72.9	73.7
80°	48.5	49.2	49.5	49.8	50.2	49.5	51.9	53.0	53.0	55.3	57.1
82.5°	34.9	35.2	36.1	36.5	36.6	37.2	37.5	38.2	39.0	40.0	42.3
85°	17.4	18.5	18.8	18.5	18.8	18.1	19.1	19.4	19.8	19.8	19.8
87.5°	7.2	8.0	8.2	9.0	9.3	10.1	10.3	9.8	10.0	11.0	10.0
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: P332133-940

CATALOG NUMBER: S123DIW-S560D1030U940-4F0-1E-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: P332133-940

CATALOG NUMBER: S123DIW-S560D1030U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	674.0	673.8	675.6	674.3	675.6	673.8	674.0	675.9	676.5	676.7	676.7
5°	627.4	628.4	625.0	625.0	625.0	628.4	627.4	629.5	631.2	632.5	634.5
7.5°	585.9	584.3	584.5	582.6	584.5	584.3	585.9	587.5	589.7	592.6	595.5
10°	560.4	558.4	557.7	558.0	557.7	558.4	560.4	564.5	565.9	568.6	571.7
12.5°	539.4	539.0	534.5	534.6	534.5	539.0	539.4	540.5	543.5	549.2	552.9
15°	514.7	508.2	507.5	509.5	507.5	508.2	514.7	514.7	516.0	520.5	522.5
17.5°	489.9	486.4	486.7	485.6	486.7	486.4	489.9	490.4	491.5	495.2	497.8
20°	476.8	474.7	474.4	472.0	474.4	474.7	476.8	476.8	478.1	479.8	482.6
22.5°	464.8	464.0	464.2	461.6	464.2	464.0	464.8	465.6	466.9	468.1	470.0
25°	449.8	451.5	450.1	450.1	450.1	451.5	449.8	450.1	450.5	452.2	453.5
27.5°	439.7	439.6	438.9	438.9	438.9	439.6	439.7	438.8	438.5	437.8	437.6
30°	432.0	431.7	432.4	432.4	432.4	431.7	432.0	430.7	430.0	429.6	428.3
32.5°	424.4	424.8	425.0	425.3	425.0	424.8	424.4	422.8	421.5	420.6	419.5
35°	412.6	412.9	413.9	413.2	413.9	412.9	412.6	410.5	409.1	407.1	405.4
37.5°	396.5	398.1	397.8	398.3	397.8	398.1	396.5	395.9	394.6	393.1	391.0
40°	384.6	385.6	385.2	385.2	385.2	385.6	384.6	384.2	382.8	381.8	380.1
42.5°	372.3	373.0	372.1	371.6	372.1	373.0	372.3	371.7	370.9	369.0	367.0
45°	352.1	351.4	352.5	351.1	352.5	351.4	352.1	350.7	350.4	349.0	347.3
47.5°	329.6	330.3	330.6	331.5	330.6	330.3	329.6	329.7	327.8	327.0	326.5
50°	314.5	316.6	316.6	316.3	316.6	316.6	314.5	313.9	312.5	311.1	311.1
52.5°	299.8	300.8	302.1	302.0	302.1	300.8	299.8	298.5	297.2	295.2	294.7
55°	277.0	277.7	278.3	278.7	278.3	277.7	277.0	274.2	273.2	272.2	270.5
57.5°	253.3	253.1	254.7	255.2	254.7	253.1	253.3	250.8	249.3	246.2	245.8
60°	236.7	236.7	239.4	240.4	239.4	236.7	236.7	234.0	231.6	229.5	228.8
62.5°	218.9	220.0	222.7	221.3	222.7	220.0	218.9	215.9	214.1	211.5	209.7
65°	193.0	195.7	195.4	196.7	195.4	195.7	193.0	191.3	187.5	185.1	183.1
67.5°	165.9	167.6	170.0	170.2	170.0	167.6	165.9	163.1	160.7	158.1	155.7
70°	147.6	149.3	150.6	151.6	150.6	149.3	147.6	144.8	142.0	140.4	137.6
72.5°	129.7	130.6	133.9	132.5	133.9	130.6	129.7	126.5	124.3	122.9	119.8
75°	101.7	104.2	106.2	105.2	106.2	104.2	101.7	99.4	97.6	95.6	92.9
77.5°	75.3	77.7	78.6	77.8	78.6	77.7	75.3	73.7	72.9	68.8	68.5
80°	59.4	59.1	61.2	60.8	61.2	59.1	59.4	57.1	55.3	53.0	53.0
82.5°	43.6	43.2	44.2	44.4	44.2	43.2	43.6	42.3	40.0	39.0	38.2
85°	21.1	22.2	20.9	20.5	20.9	22.2	21.1	19.8	19.8	19.8	19.4
87.5°	10.1	10.2	10.0	9.8	10.0	10.2	10.1	10.0	11.0	10.0	9.8
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: P332133-940

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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: P332133-940

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	675.9	675.9	681.1	684.4	688.5	691.3	693.1	695.1	698.3	702.8	707.7
5°	637.3	638.6	646.1	653.7	660.8	667.0	672.1	678.2	685.8	695.0	705.3
7.5°	599.9	605.1	612.7	621.9	631.9	640.9	649.9	660.0	670.6	684.2	698.6
10°	575.8	581.6	590.8	602.4	613.1	623.6	634.9	645.8	659.2	675.2	693.7
12.5°	554.7	560.3	569.8	582.5	592.5	604.2	617.2	631.3	646.3	665.7	686.5
15°	525.6	532.1	543.7	549.8	565.3	579.3	591.2	611.6	630.8	650.6	674.8
17.5°	501.7	505.3	514.7	526.1	537.6	553.3	569.0	586.0	605.1	629.4	659.7
20°	485.3	488.4	498.6	510.6	522.9	537.3	551.3	568.3	589.8	615.5	648.2
22.5°	473.0	476.4	483.0	495.8	507.3	519.2	533.2	553.6	576.4	601.5	637.0
25°	455.2	457.3	461.7	472.0	482.2	495.5	507.8	527.0	550.5	579.9	615.5
27.5°	438.4	440.3	444.1	451.4	461.0	471.8	485.2	501.4	525.3	557.2	594.9
30°	428.3	428.6	432.0	438.8	447.0	455.9	468.2	486.7	509.2	541.6	581.3
32.5°	419.5	418.2	420.5	425.7	433.6	442.6	452.6	470.8	492.6	524.4	565.2
35°	404.7	404.0	403.0	407.4	414.3	421.1	430.0	443.6	468.2	497.9	540.6
37.5°	389.6	388.0	386.1	388.2	393.5	400.6	408.3	420.4	441.7	474.4	515.2
40°	378.4	377.0	376.0	375.3	380.1	386.9	392.7	404.4	424.2	455.2	495.5
42.5°	366.1	365.3	364.0	363.0	367.0	372.2	378.3	388.5	408.3	437.5	475.6
45°	346.3	345.6	344.9	344.3	346.6	351.4	356.2	363.7	380.8	409.1	443.6
47.5°	324.2	323.3	323.6	322.5	324.9	328.1	331.4	339.5	355.9	378.7	403.9
50°	308.4	308.1	308.1	308.1	308.7	312.5	315.6	321.7	336.7	359.6	377.7
52.5°	293.4	291.9	291.9	292.5	293.7	296.1	298.1	304.8	317.9	336.7	353.1
55°	269.8	267.1	266.4	267.1	268.1	270.1	272.2	277.7	288.9	302.9	312.5
57.5°	243.7	242.2	241.3	241.5	242.0	243.6	245.2	251.2	260.0	267.3	273.5
60°	225.4	226.0	223.0	223.7	223.7	225.1	227.5	231.2	238.7	243.9	250.0
62.5°	208.2	207.2	206.3	205.4	205.4	205.9	209.1	212.0	218.5	221.1	226.0
65°	181.4	181.4	179.3	179.9	180.3	177.9	179.7	183.1	187.2	188.2	192.6
67.5°	154.2	153.2	152.0	151.1	151.1	150.8	151.7	153.4	156.5	156.9	160.2
70°	135.5	134.9	134.6	133.6	132.2	133.8	132.9	134.6	136.3	136.6	138.7
72.5°	117.5	116.9	116.3	115.2	114.7	114.5	114.6	116.5	117.7	117.2	119.5
75°	91.8	91.2	90.5	88.8	88.8	87.7	88.1	89.4	90.9	89.8	91.8
77.5°	67.5	65.4	65.3	65.7	64.6	64.7	64.4	64.1	64.7	64.8	66.7
80°	51.9	49.5	50.2	49.8	49.5	49.2	48.5	48.9	49.2	49.5	50.6
82.5°	37.5	37.2	36.6	36.5	36.1	35.2	34.9	35.5	35.8	35.6	36.4
85°	19.1	18.1	18.8	18.5	18.8	18.5	17.4	17.4	18.1	17.7	18.5
87.5°	10.3	10.1	9.3	9.0	8.2	8.0	7.2	7.1	7.0	6.6	6.8
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: P332133-940

CATALOG NUMBER: S123DIW-S560D1030U940-4F0-1E-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: P332133-940

CATALOG NUMBER: S123DIW-S560D1030U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

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



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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°	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	741.8	742.1	745.0	747.3	746.2	747.5	748.1
5°	810.4	822.7	829.2	834.0	834.4	834.6	837.4
7.5°	907.8	921.0	930.6	945.2	949.6	954.6	953.1
10°	978.8	998.3	1015.0	1023.9	1033.4	1047.4	1036.2
12.5°	1045.2	1079.7	1105.2	1118.9	1128.0	1130.8	1125.2
15°	1154.7	1199.8	1224.1	1223.3	1254.1	1267.4	1246.5
17.5°	1255.1	1296.7	1330.0	1347.1	1372.7	1378.4	1375.8
20°	1316.5	1362.0	1387.9	1417.3	1430.7	1442.6	1444.7
22.5°	1369.6	1410.3	1438.2	1462.7	1473.8	1479.4	1482.9
25°	1424.2	1456.3	1473.0	1481.5	1484.6	1483.9	1479.4
27.5°	1420.4	1422.8	1404.4	1386.3	1370.1	1351.8	1345.6
30°	1383.5	1354.8	1303.6	1274.5	1231.9	1198.0	1211.7
32.5°	1286.5	1229.4	1171.9	1108.4	1055.9	1041.0	1025.9
35°	1098.0	997.6	938.9	870.6	843.2	815.9	797.1
37.5°	888.3	810.7	740.9	696.2	668.9	651.7	642.3
40°	768.1	698.0	640.7	604.5	583.6	564.2	561.4
42.5°	672.2	607.1	563.9	535.1	515.1	506.8	500.8
45°	550.5	505.1	476.1	455.6	442.3	437.1	430.3
47.5°	466.0	433.9	412.1	398.1	388.1	384.2	383.7
50°	418.7	392.1	376.0	365.1	357.2	355.9	350.4
52.5°	383.2	360.1	347.6	338.0	332.3	328.5	326.9
55°	332.6	317.3	306.0	300.5	296.1	292.3	292.3
57.5°	291.1	278.2	270.7	266.1	264.7	262.1	260.4
60°	265.4	254.4	248.6	244.5	241.8	242.1	239.1
62.5°	240.2	233.1	227.6	223.5	220.3	220.3	220.5
65°	204.6	199.1	195.0	193.7	191.6	189.2	189.8
67.5°	173.3	168.3	165.1	162.7	162.0	160.7	162.7
70°	151.0	147.2	144.8	142.8	142.0	142.4	144.1
72.5°	130.5	127.8	126.3	125.3	123.8	123.9	125.0
75°	102.5	100.4	99.1	98.0	97.6	97.6	97.6
77.5°	75.3	74.8	74.2	72.7	72.8	73.1	73.2
80°	59.4	58.4	58.1	57.3	56.4	55.6	57.3
82.5°	44.4	43.3	43.1	42.9	41.3	41.2	42.6
85°	23.9	22.9	23.2	22.9	22.9	22.6	22.6
87.5°	13.3	13.2	13.0	13.4	13.2	13.0	13.6
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)