

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: P331277-940

Luminaire Tested: **SA2XXDIP-C290D1080U940-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331277-940  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA2XXDIP-C290D1080U940-4F0-1E-UDD-A1  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1080 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

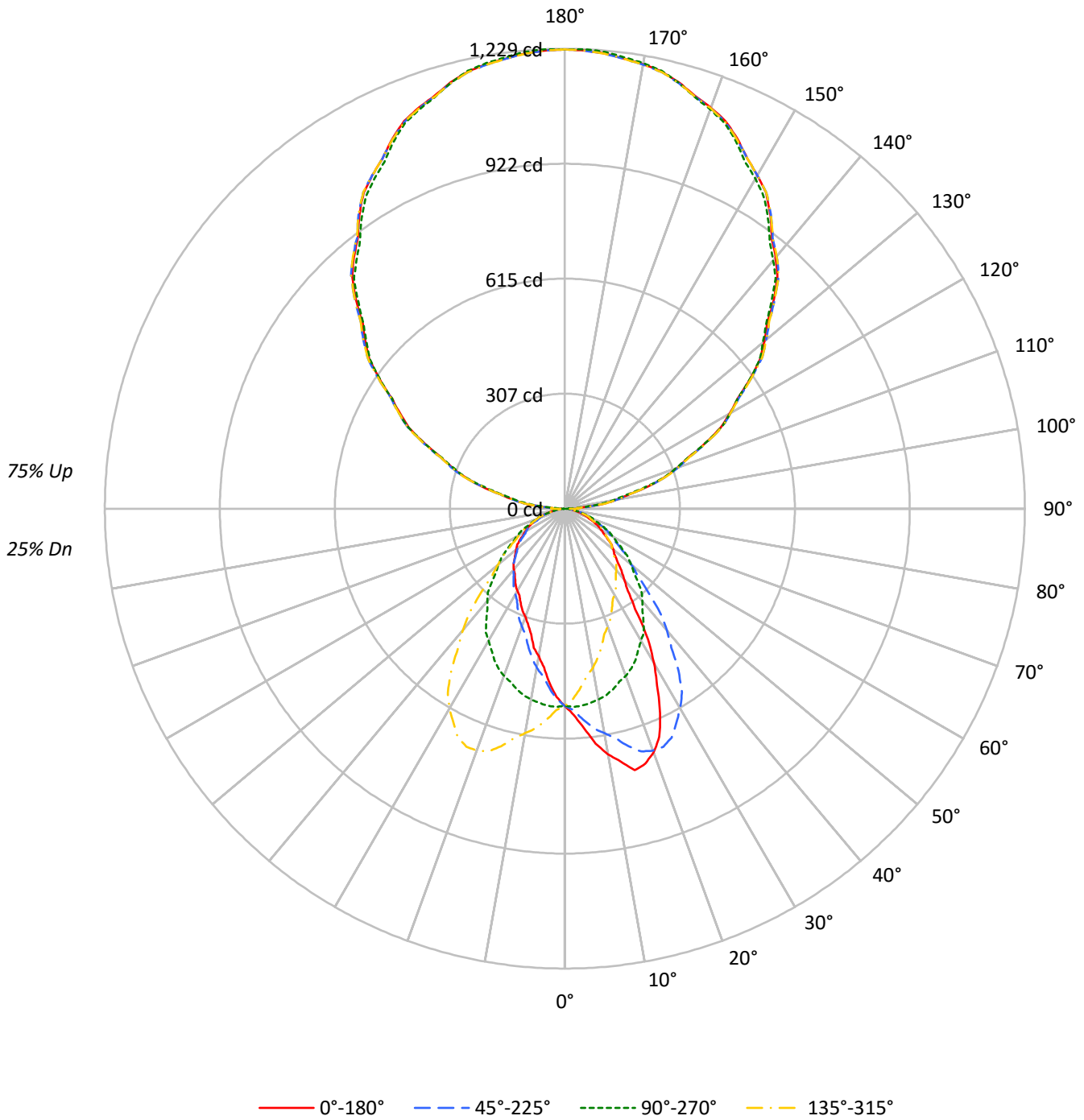
Lumens per Lamp: N/A  
Luminaire Lumens: 4599.8 lumens  
Efficiency: N/A  
Efficacy: 109.0 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 42.2  
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	0
RCR																		
0	101	101	101	101	90	90	90	90	70	70	70	51	51	51	34	34	34	25
1	92	88	85	81	82	79	76	73	61	59	57	45	44	43	30	29	29	22
2	84	77	72	67	75	69	64	60	54	51	48	40	38	36	27	25	24	19
3	77	68	61	56	68	61	55	51	48	44	40	35	33	31	24	22	21	16
4	71	60	53	47	63	54	48	43	42	38	35	32	29	26	21	20	18	14
5	65	54	46	40	57	48	42	37	38	33	30	28	25	23	19	18	16	12
6	60	48	41	35	53	43	37	32	34	29	26	26	22	20	18	16	14	11
7	55	43	36	31	49	39	33	28	31	26	23	23	20	18	16	14	13	10
8	51	39	32	27	45	35	29	25	28	24	20	21	18	16	15	13	11	9
9	47	36	29	24	42	32	26	22	26	21	18	20	16	14	14	12	10	8
10	44	33	26	21	39	30	24	20	24	19	16	18	15	13	13	11	9	7

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	8510	8510	8510	8510
5°	9540	8566	7590	8566
10°	10932	8496	6568	8496
15°	12094	8339	5804	8339
20°	11911	8172	5290	8172
25°	10739	7949	4965	7949
30°	8874	7594	4728	7594
35°	6467	7222	4559	7222
40°	5166	6785	4466	6785
45°	4514	6277	4338	6277
50°	4245	5785	4253	5785
55°	3910	5286	4138	5286
60°	3584	4753	3965	4753
65°	3266	4279	3790	4279
70°	2965	3814	3541	3814
75°	2633	3300	3132	3300
80°	2259	2724	2520	2724
85°	2038	2038	1501	2038



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.2	1.1
10°-20°	145.9	3.2
20°-30°	211.8	4.6
30°-40°	223.5	4.9
40°-50°	197.9	4.3
50°-60°	157.9	3.4
60°-70°	107.3	2.3
70°-80°	55.0	1.2
80°-90°	18.2	0.4
90°-100°	77.8	1.7
100°-110°	241.6	5.3
110°-120°	412.9	9.0
120°-130°	543.0	11.8
130°-140°	609.4	13.2
140°-150°	597.6	13.0
150°-160°	501.2	10.9
160°-170°	332.4	7.2
170°-180°	116.2	2.5
0°-30°	407.9	8.9
0°-40°	631.4	13.7
0°-60°	987.2	21.5
0°-90°	1167.7	25.4
90°-120°	732.3	15.9
90°-150°	2482.3	54.0
90°-180°	3432.0	74.6
0°-180°	4599.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	527	527	527	527	527	
5°	589	528	468	528	589	59
15°	724	499	347	499	724	200
25°	603	446	279	446	603	272
35°	328	366	231	366	328	213
45°	198	275	190	275	198	155
55°	139	188	147	188	139	125
65°	86	112	99	112	86	85
75°	42	53	50	53	42	45
85°	11	11	8	11	11	13
90°	35	1	35	1	35	16
95°	64	54	64	54	64	72
105°	230	223	230	223	230	242
115°	414	414	414	414	414	409
125°	605	603	605	603	605	539
135°	789	780	789	780	789	608
145°	957	947	957	947	957	598
155°	1091	1082	1091	1082	1091	502
165°	1179	1178	1179	1178	1179	332
175°	1221	1225	1221	1225	1221	116
180°	1227	1227	1227	1227	1227	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1
2.5°	551.3	551.5	551.9	549.3	548.9	548.9	546.7	544.7	542.4	539.4	539.8
5°	588.6	590.8	591.7	589.2	585.6	585.2	581.8	576.1	570.8	566.6	563.6
7.5°	633.1	634.0	632.0	628.8	626.2	621.3	614.8	608.6	599.8	591.7	585.8
10°	666.8	668.1	664.6	660.0	656.1	650.4	641.1	631.6	620.1	608.9	600.0
12.5°	692.4	695.4	691.0	690.5	683.9	676.0	664.9	660.1	643.9	628.4	618.8
15°	723.5	723.4	723.8	719.9	715.1	713.8	702.1	689.3	666.5	657.3	641.5
17.5°	714.5	717.6	719.1	719.0	718.9	718.1	714.3	706.3	694.8	680.0	661.8
20°	693.2	697.2	697.9	702.5	705.2	708.6	710.0	707.8	700.7	688.3	672.5
22.5°	660.1	661.3	663.2	670.4	676.1	684.7	689.2	696.8	694.0	688.0	674.8
25°	602.8	600.8	607.9	611.5	624.7	638.5	648.5	659.3	669.1	674.9	671.1
27.5°	534.0	531.0	541.6	551.3	562.0	576.9	592.4	610.6	625.8	644.9	651.4
30°	476.0	477.9	487.9	498.3	514.5	535.6	553.0	573.0	594.8	616.0	630.8
32.5°	413.5	420.4	426.9	442.7	457.0	480.5	506.0	531.1	558.1	582.3	605.2
35°	328.1	336.3	345.2	356.7	376.7	400.0	425.0	458.8	495.7	528.7	555.8
37.5°	276.3	274.9	280.0	288.4	304.6	323.4	352.1	385.5	428.9	467.7	506.0
40°	245.1	244.3	247.9	255.7	268.0	281.8	306.9	336.3	376.6	424.0	469.6
42.5°	223.7	224.2	226.2	231.7	240.1	251.5	270.3	295.2	332.2	376.8	425.8
45°	197.7	199.1	201.3	204.0	208.8	218.2	228.7	246.6	275.7	313.0	361.1
47.5°	179.0	179.1	181.3	183.6	186.5	191.7	200.4	211.5	232.1	262.4	303.9
50°	169.0	167.6	169.2	170.9	174.0	177.6	183.3	193.9	207.6	232.1	266.8
52.5°	156.6	156.7	158.1	158.8	161.5	165.1	170.3	177.6	190.1	209.3	237.7
55°	138.9	140.0	140.8	142.0	144.5	147.0	151.1	156.0	165.7	180.0	201.2
57.5°	122.3	122.7	123.5	125.8	127.3	129.7	133.6	138.0	144.4	155.0	170.9
60°	111.0	111.0	112.6	113.6	115.7	118.1	121.1	125.4	131.1	139.7	152.6
62.5°	100.7	100.5	101.1	102.8	104.3	106.6	109.6	113.2	118.6	126.4	136.8
65°	85.5	85.1	86.3	86.7	88.3	90.5	93.0	96.8	101.1	106.7	116.1
67.5°	70.9	71.4	72.1	72.8	73.7	76.1	77.7	80.3	84.0	88.7	95.0
70°	62.8	62.8	62.8	63.4	64.6	65.8	67.4	69.6	73.1	77.1	82.8
72.5°	53.7	54.4	55.0	54.7	56.2	56.9	58.9	60.1	63.4	66.0	71.0
75°	42.2	42.2	42.2	43.2	43.8	44.3	45.6	46.8	48.4	51.6	54.3
77.5°	31.5	31.4	31.6	31.8	32.5	33.2	33.5	34.6	36.1	37.6	39.9
80°	24.3	24.7	24.9	25.3	25.3	25.7	25.9	27.4	28.4	29.3	30.8
82.5°	18.8	18.9	18.9	19.0	19.2	19.4	20.0	20.4	20.8	21.6	22.6
85°	11.0	10.7	10.7	11.1	11.0	11.0	11.3	11.8	11.8	11.9	12.6
87.5°	11.2	11.2	11.3	11.1	11.1	11.2	11.3	11.2	11.5	11.8	11.0
90°	35.2	35.0	34.8	34.5	34.3	34.4	34.9	35.3	35.8	36.3	31.2
92.5°	33.5	33.5	33.4	33.4	33.3	33.3	33.2	33.1	33.0	32.9	31.7
95°	64.2	64.6	65.2	65.6	66.1	66.3	66.3	66.3	66.3	66.3	65.8
97.5°	111.3	111.3	111.4	111.4	111.5	111.5	111.5	111.5	111.5	111.5	110.6
100°	141.9	142.1	142.4	142.6	142.9	142.9	142.9	142.9	142.9	142.9	142.2
102.5°	176.7	176.9	177.2	177.4	177.6	177.6	177.5	177.3	177.1	176.9	176.0
105°	230.0	230.0	230.0	230.0	230.0	229.7	229.3	228.8	228.4	227.8	227.4
107.5°	280.1	281.2	282.2	283.3	284.3	284.7	284.5	284.4	284.2	284.0	284.0
110°	319.1	319.7	320.4	321.1	321.8	322.2	322.2	322.2	322.2	322.2	322.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	356.3	356.9	357.3	357.8	358.4	358.9	359.4	360.0	360.5	361.1	361.2
115°	414.3	415.0	415.7	416.4	417.1	417.5	417.8	418.0	418.2	418.5	418.9
117.5°	469.7	470.3	471.0	471.7	472.4	473.1	473.6	474.1	474.7	475.2	476.5
120°	508.5	509.3	510.0	510.7	511.3	511.7	511.7	511.7	511.7	511.7	513.5
122.5°	546.7	547.2	547.7	548.2	548.8	549.2	549.8	550.4	550.9	551.4	552.8
125°	604.9	605.1	605.4	605.6	605.8	606.3	607.0	607.7	608.3	609.0	609.8
127.5°	657.9	658.7	659.4	660.1	660.8	661.6	662.5	663.3	664.1	664.9	665.8
130°	696.1	697.0	697.9	698.8	699.7	700.4	700.9	701.3	701.8	702.3	702.8
132.5°	732.5	733.3	734.0	734.8	735.5	736.4	737.4	738.3	739.4	740.4	740.3
135°	789.3	790.0	790.7	791.3	792.0	792.5	792.7	793.0	793.2	793.4	793.0
137.5°	840.6	841.6	842.5	843.4	844.4	844.9	845.1	845.3	845.4	845.6	845.0
140°	876.3	877.2	878.2	879.0	879.9	880.4	880.4	880.4	880.4	880.4	879.3
142.5°	908.6	909.5	910.4	911.3	912.3	912.7	912.5	912.3	912.1	912.0	911.2
145°	957.1	958.0	958.9	959.8	960.7	961.1	960.9	960.6	960.4	960.2	958.8
147.5°	1000.4	1001.2	1002.1	1003.0	1003.9	1004.1	1003.5	1003.1	1002.6	1002.0	1001.1
150°	1028.6	1029.2	1029.9	1030.6	1031.4	1031.4	1030.6	1029.9	1029.2	1028.6	1027.6
152.5°	1055.1	1056.0	1056.9	1057.7	1058.5	1058.5	1057.7	1056.9	1056.0	1055.1	1054.0
155°	1090.7	1091.4	1092.1	1092.8	1093.4	1093.2	1092.1	1090.9	1089.8	1088.6	1088.0
157.5°	1121.3	1122.5	1123.6	1124.6	1125.8	1125.5	1124.0	1122.4	1120.9	1119.3	1118.8
160°	1140.4	1141.3	1142.3	1143.2	1144.1	1143.9	1142.5	1141.1	1139.7	1138.4	1138.1
162.5°	1157.0	1158.1	1159.2	1160.3	1161.4	1161.2	1159.6	1158.1	1156.5	1154.9	1154.7
165°	1178.8	1179.9	1181.1	1182.2	1183.3	1183.1	1181.5	1179.9	1178.3	1176.7	1176.7
167.5°	1196.6	1197.7	1198.9	1200.2	1201.3	1201.1	1199.5	1197.9	1196.3	1194.7	1194.7
170°	1205.7	1207.0	1208.4	1209.8	1211.2	1211.0	1209.4	1207.8	1206.2	1204.6	1204.9
172.5°	1213.1	1214.5	1215.8	1217.3	1218.6	1218.5	1216.9	1215.3	1213.7	1212.1	1212.3
175°	1221.2	1222.6	1224.0	1225.4	1226.7	1226.6	1225.0	1223.4	1221.8	1220.1	1220.7
177.5°	1224.9	1226.0	1227.2	1228.2	1229.3	1229.3	1228.2	1227.2	1226.0	1224.9	1225.3
180°	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1
2.5°	540.8	539.6	538.8	535.8	533.2	530.7	529.9	530.1	526.6	523.2	521.7
5°	562.0	557.9	554.0	548.6	542.1	534.9	531.4	528.5	521.4	513.7	509.3
7.5°	580.8	575.0	567.6	557.3	547.9	536.7	529.6	523.3	513.0	502.1	495.4
10°	592.3	584.4	574.9	562.3	550.8	537.2	527.7	518.2	506.0	493.0	484.9
12.5°	602.2	591.6	582.2	566.1	552.4	535.4	524.1	510.7	497.9	482.5	474.6
15°	625.7	606.1	588.3	570.0	553.2	529.5	516.9	498.9	482.1	463.1	454.0
17.5°	643.9	621.8	593.8	570.6	551.0	524.7	506.3	484.7	464.8	443.1	430.7
20°	654.2	628.9	598.8	571.2	547.8	517.7	497.7	475.6	452.4	427.8	414.5
22.5°	660.4	633.8	604.0	568.8	541.3	512.1	486.9	462.6	439.1	412.6	398.6
25°	662.4	638.1	606.5	566.8	533.2	500.2	469.8	446.2	417.7	393.0	372.6
27.5°	652.7	635.3	604.9	562.9	523.8	485.2	451.3	424.7	394.6	367.7	347.1
30°	640.9	630.8	601.2	559.1	516.3	474.8	437.6	407.3	377.4	350.3	329.1
32.5°	622.6	620.5	594.4	553.6	508.4	461.7	423.1	392.6	359.4	332.7	312.6
35°	586.7	596.4	580.0	541.3	493.5	443.0	401.3	366.4	332.0	306.5	287.7
37.5°	538.4	562.6	558.3	523.3	473.2	422.7	376.6	340.2	307.4	281.6	263.1
40°	505.2	536.0	540.5	509.4	459.1	407.0	358.1	321.9	289.9	266.4	247.7
42.5°	469.6	505.5	517.7	492.9	443.4	390.4	341.6	304.1	272.3	249.5	233.0
45°	409.8	457.4	479.5	465.3	417.5	363.2	313.0	274.9	246.1	224.6	211.9
47.5°	353.9	405.9	435.6	430.6	388.6	334.8	285.2	248.6	220.6	203.5	192.1
50°	314.4	367.8	403.7	405.4	367.8	314.6	264.7	230.3	204.6	188.6	179.2
52.5°	280.0	331.1	370.1	378.8	344.6	293.6	246.5	212.1	189.5	174.8	166.5
55°	235.1	278.3	321.6	337.5	310.1	261.5	217.9	187.8	166.5	156.4	149.1
57.5°	195.6	231.5	271.5	289.0	272.2	230.5	189.7	163.5	146.2	137.3	131.7
60°	174.6	203.0	238.6	259.5	244.9	207.9	172.2	147.2	133.0	125.2	119.9
62.5°	155.2	180.3	210.4	229.5	221.6	186.6	154.7	132.7	120.5	113.1	109.2
65°	128.0	147.8	171.2	188.8	183.5	157.0	130.8	112.0	102.3	96.4	93.4
67.5°	105.4	119.8	135.9	151.3	147.1	128.3	107.4	92.6	85.4	80.3	78.5
70°	91.1	102.1	116.5	128.9	125.4	110.0	93.4	80.8	74.5	70.3	68.5
72.5°	77.6	86.5	97.6	107.6	105.3	92.5	78.6	69.2	64.3	60.4	58.9
75°	58.6	65.5	72.1	78.8	78.2	68.3	60.2	52.9	49.0	46.0	45.4
77.5°	43.2	47.1	51.6	55.6	54.5	48.8	42.4	38.3	35.5	33.4	33.1
80°	33.0	35.2	38.5	41.3	39.9	37.5	32.4	29.3	27.4	25.3	24.5
82.5°	24.0	26.1	28.1	29.7	28.5	26.3	23.2	21.1	19.9	18.5	18.2
85°	12.6	13.7	14.6	15.0	14.6	13.2	11.8	11.0	9.9	9.3	9.1
87.5°	10.1	9.1	8.0	7.6	6.6	6.0	4.8	3.7	4.2	4.5	4.8
90°	26.1	21.0	16.0	12.1	9.4	6.6	3.8	1.1	3.8	6.6	9.4
92.5°	30.6	29.3	28.2	26.6	24.5	22.5	20.4	18.5	20.4	22.5	24.5
95°	65.4	64.9	64.5	63.0	60.7	58.5	56.2	53.9	56.2	58.5	60.7
97.5°	109.7	108.8	108.0	106.5	104.5	102.5	100.4	98.4	100.4	102.5	104.5
100°	141.5	140.9	140.2	138.9	137.1	135.3	133.4	131.5	133.4	135.3	137.1
102.5°	175.1	174.3	173.4	172.3	170.8	169.3	167.8	166.4	167.8	169.3	170.8
105°	226.9	226.5	226.0	225.4	224.8	224.1	223.4	222.7	223.4	224.1	224.8
107.5°	284.0	284.0	284.0	283.5	282.5	281.5	280.4	279.5	280.4	281.5	282.5
110°	322.2	322.2	322.2	321.5	320.0	318.7	317.3	315.9	317.3	318.7	320.0





TEST NUMBER: P331277-940

CATALOG NUMBER: SA2XXDIP-C290D1080U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	361.4	361.6	361.9	361.2	359.8	358.5	357.0	355.7	357.0	358.5	359.8
115°	419.4	419.8	420.3	419.8	418.5	417.1	415.7	414.3	415.7	417.1	418.5
117.5°	477.8	479.1	480.4	480.1	478.2	476.4	474.6	472.7	474.6	476.4	478.2
120°	515.4	517.2	519.1	519.1	517.2	515.4	513.5	511.7	513.5	515.4	517.2
122.5°	554.0	555.4	556.6	556.2	553.9	551.7	549.6	547.3	549.6	551.7	553.9
125°	610.5	611.1	611.8	611.1	609.0	607.0	604.9	602.8	604.9	607.0	609.0
127.5°	666.6	667.4	668.3	667.4	664.8	662.2	659.5	656.9	659.5	662.2	664.8
130°	703.2	703.6	704.1	702.8	699.8	696.9	693.8	690.9	693.8	696.9	699.8
132.5°	740.2	740.1	740.0	738.8	736.3	733.9	731.5	729.0	731.5	733.9	736.3
135°	792.5	792.0	791.6	790.1	787.6	785.1	782.5	780.0	782.5	785.1	787.6
137.5°	844.5	843.8	843.2	841.9	839.8	837.8	835.7	833.6	835.7	837.8	839.8
140°	878.2	877.0	875.8	874.2	872.2	870.0	868.0	865.9	868.0	870.0	872.2
142.5°	910.3	909.5	908.7	907.3	905.3	903.2	901.2	899.1	901.2	903.2	905.3
145°	957.4	956.0	954.7	953.1	951.5	949.9	948.3	946.7	948.3	949.9	951.5
147.5°	1000.2	999.3	998.4	996.9	995.0	993.0	991.1	989.2	991.1	993.0	995.0
150°	1026.7	1025.8	1024.8	1023.7	1022.3	1020.9	1019.6	1018.2	1019.6	1020.9	1022.3
152.5°	1052.8	1051.8	1050.6	1049.4	1048.0	1046.6	1045.3	1043.8	1045.3	1046.6	1048.0
155°	1087.3	1086.5	1085.8	1085.2	1084.5	1083.8	1083.1	1082.4	1083.1	1083.8	1084.5
157.5°	1118.5	1118.0	1117.6	1117.2	1116.7	1116.2	1115.8	1115.4	1115.8	1116.2	1116.7
160°	1137.9	1137.6	1137.4	1137.1	1136.6	1136.1	1135.7	1135.2	1135.7	1136.1	1136.6
162.5°	1154.4	1154.2	1154.0	1153.9	1153.7	1153.6	1153.5	1153.4	1153.5	1153.6	1153.7
165°	1176.7	1176.7	1176.7	1176.8	1177.0	1177.2	1177.5	1177.7	1177.5	1177.2	1177.0
167.5°	1194.8	1194.8	1194.9	1195.2	1196.0	1196.6	1197.3	1198.0	1197.3	1196.6	1196.0
170°	1205.1	1205.3	1205.6	1206.0	1206.7	1207.4	1208.1	1208.8	1208.1	1207.4	1206.7
172.5°	1212.5	1212.8	1213.0	1213.4	1214.2	1214.9	1215.6	1216.2	1215.6	1214.9	1214.2
175°	1221.1	1221.6	1222.0	1222.6	1223.2	1224.0	1224.7	1225.4	1224.7	1224.0	1223.2
177.5°	1225.7	1226.0	1226.4	1226.9	1227.4	1228.0	1228.5	1229.0	1228.5	1228.0	1227.4
180°	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4



TEST NUMBER: P331277-940

CATALOG NUMBER: SA2XXDIP-C290D1080U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1
2.5°	520.1	519.2	515.8	514.0	511.0	508.3	506.5	507.3	507.9	507.7	507.1
5°	505.2	501.3	495.4	490.4	486.8	480.1	477.2	475.8	474.6	473.2	471.8
7.5°	487.4	481.3	473.0	465.7	459.0	450.6	445.9	443.1	440.1	436.9	434.1
10°	474.8	466.3	457.4	447.3	439.2	431.7	425.0	420.5	416.4	412.6	409.8
12.5°	461.5	451.7	440.7	426.9	417.9	407.2	406.2	398.3	392.0	389.6	386.3
15°	440.4	426.6	412.6	396.2	389.1	379.4	373.4	367.2	361.8	357.9	357.0
17.5°	416.3	398.5	384.6	372.8	361.2	351.2	345.6	340.8	336.3	331.2	330.5
20°	398.1	382.6	367.5	357.1	345.2	335.0	328.1	323.3	319.4	316.4	313.8
22.5°	380.7	363.8	349.9	338.7	326.9	318.7	313.3	308.5	305.3	302.0	299.5
25°	352.8	339.7	324.5	311.7	302.0	296.8	292.3	288.3	286.2	284.0	281.2
27.5°	328.5	313.9	299.7	289.8	281.2	276.6	273.4	270.6	268.8	267.4	265.8
30°	311.4	296.6	285.4	275.7	268.6	263.9	261.9	260.3	258.1	257.3	256.5
32.5°	294.8	281.5	272.0	263.5	256.8	253.7	251.9	250.4	248.7	247.9	246.2
35°	271.4	260.3	251.0	246.3	240.9	238.2	236.8	234.8	233.2	232.4	232.1
37.5°	249.4	239.8	233.6	227.7	225.3	223.7	221.8	220.4	219.9	219.8	219.5
40°	235.1	227.3	221.8	217.0	216.0	213.5	211.9	210.7	210.7	210.9	210.7
42.5°	222.2	215.1	210.3	206.1	204.9	203.5	201.8	201.8	202.1	202.8	202.1
45°	202.6	197.5	194.0	192.1	189.8	188.4	188.2	188.8	189.0	189.2	189.8
47.5°	184.5	181.1	178.0	175.8	174.8	174.6	174.3	175.4	176.4	176.7	177.6
50°	173.8	170.0	167.3	165.9	165.1	164.7	165.1	166.3	167.1	168.1	168.7
52.5°	161.8	159.1	157.3	156.1	155.9	156.1	156.1	157.6	158.8	159.3	159.5
55°	145.3	143.2	142.9	141.0	141.8	141.6	142.6	143.4	144.6	145.9	146.1
57.5°	128.7	127.1	126.0	126.2	126.4	127.3	128.1	129.6	130.8	132.2	132.2
60°	117.7	116.9	116.3	116.3	116.6	117.9	118.9	120.3	121.1	122.0	122.5
62.5°	107.6	106.8	106.2	106.6	107.6	108.3	109.5	110.3	111.1	111.9	112.2
65°	91.8	91.4	91.9	92.4	92.6	93.5	95.0	95.6	96.4	96.8	98.3
67.5°	77.1	77.2	77.1	77.7	78.9	79.1	80.4	81.9	82.0	82.8	83.7
70°	67.2	67.7	68.0	68.5	69.5	69.9	70.9	71.5	72.3	72.9	73.6
72.5°	58.1	58.2	58.7	58.6	59.5	60.3	61.2	61.8	62.6	63.4	63.9
75°	44.8	44.8	45.2	45.4	46.4	47.4	47.2	47.6	48.4	49.2	49.7
77.5°	32.7	32.3	32.7	32.9	33.3	34.1	34.2	34.8	35.8	35.5	35.9
80°	24.9	24.3	24.9	25.1	25.1	26.1	26.1	26.6	27.1	26.6	27.1
82.5°	17.7	17.5	17.9	18.0	18.3	18.4	18.6	18.7	19.4	19.1	19.4
85°	8.9	8.7	8.9	8.7	8.9	9.1	9.1	8.9	8.9	9.3	8.7
87.5°	5.2	5.8	6.6	7.7	8.5	9.4	9.1	9.0	8.9	8.5	8.5
90°	12.1	16.0	21.0	26.1	31.2	36.3	35.8	35.3	34.9	34.4	34.3
92.5°	26.6	28.2	29.3	30.6	31.7	32.9	33.0	33.1	33.2	33.3	33.3
95°	63.0	64.5	64.9	65.4	65.8	66.3	66.3	66.3	66.3	66.3	66.1
97.5°	106.5	108.0	108.8	109.7	110.6	111.5	111.5	111.5	111.5	111.5	111.5
100°	138.9	140.2	140.9	141.5	142.2	142.9	142.9	142.9	142.9	142.9	142.9
102.5°	172.3	173.4	174.3	175.1	176.0	176.9	177.1	177.3	177.5	177.6	177.6
105°	225.4	226.0	226.5	226.9	227.4	227.8	228.4	228.8	229.3	229.7	230.0
107.5°	283.5	284.0	284.0	284.0	284.0	284.0	284.2	284.4	284.5	284.7	284.3
110°	321.5	322.2	322.2	322.2	322.2	322.2	322.2	322.2	322.2	322.2	321.8



TEST NUMBER: P331277-940

CATALOG NUMBER: SA2XXDIP-C290D1080U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	361.2	361.9	361.6	361.4	361.2	361.1	360.5	360.0	359.4	358.9	358.4
115°	419.8	420.3	419.8	419.4	418.9	418.5	418.2	418.0	417.8	417.5	417.1
117.5°	480.1	480.4	479.1	477.8	476.5	475.2	474.7	474.1	473.6	473.1	472.4
120°	519.1	519.1	517.2	515.4	513.5	511.7	511.7	511.7	511.7	511.7	511.3
122.5°	556.2	556.6	555.4	554.0	552.8	551.4	550.9	550.4	549.8	549.2	548.8
125°	611.1	611.8	611.1	610.5	609.8	609.0	608.3	607.7	607.0	606.3	605.8
127.5°	667.4	668.3	667.4	666.6	665.8	664.9	664.1	663.3	662.5	661.6	660.8
130°	702.8	704.1	703.6	703.2	702.8	702.3	701.8	701.3	700.9	700.4	699.7
132.5°	738.8	740.0	740.1	740.2	740.3	740.4	739.4	738.3	737.4	736.4	735.5
135°	790.1	791.6	792.0	792.5	793.0	793.4	793.2	793.0	792.7	792.5	792.0
137.5°	841.9	843.2	843.8	844.5	845.0	845.6	845.4	845.3	845.1	844.9	844.4
140°	874.2	875.8	877.0	878.2	879.3	880.4	880.4	880.4	880.4	880.4	879.9
142.5°	907.3	908.7	909.5	910.3	911.2	912.0	912.1	912.3	912.5	912.7	912.3
145°	953.1	954.7	956.0	957.4	958.8	960.2	960.4	960.6	960.9	961.1	960.7
147.5°	996.9	998.4	999.3	1000.2	1001.1	1002.0	1002.6	1003.1	1003.5	1004.1	1003.9
150°	1023.7	1024.8	1025.8	1026.7	1027.6	1028.6	1029.2	1029.9	1030.6	1031.4	1031.4
152.5°	1049.4	1050.6	1051.8	1052.8	1054.0	1055.1	1056.0	1056.9	1057.7	1058.5	1058.5
155°	1085.2	1085.8	1086.5	1087.3	1088.0	1088.6	1089.8	1090.9	1092.1	1093.2	1093.4
157.5°	1117.2	1117.6	1118.0	1118.5	1118.8	1119.3	1120.9	1122.4	1124.0	1125.5	1125.8
160°	1137.1	1137.4	1137.6	1137.9	1138.1	1138.4	1139.7	1141.1	1142.5	1143.9	1144.1
162.5°	1153.9	1154.0	1154.2	1154.4	1154.7	1154.9	1156.5	1158.1	1159.6	1161.2	1161.4
165°	1176.8	1176.7	1176.7	1176.7	1176.7	1176.7	1178.3	1179.9	1181.5	1183.1	1183.3
167.5°	1195.2	1194.9	1194.8	1194.8	1194.7	1194.7	1196.3	1197.9	1199.5	1201.1	1201.3
170°	1206.0	1205.6	1205.3	1205.1	1204.9	1204.6	1206.2	1207.8	1209.4	1211.0	1211.2
172.5°	1213.4	1213.0	1212.8	1212.5	1212.3	1212.1	1213.7	1215.3	1216.9	1218.5	1218.6
175°	1222.6	1222.0	1221.6	1221.1	1220.7	1220.1	1221.8	1223.4	1225.0	1226.6	1226.7
177.5°	1226.9	1226.4	1226.0	1225.7	1225.3	1224.9	1226.0	1227.2	1228.2	1229.3	1229.3
180°	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4



TEST NUMBER: P331277-940

CATALOG NUMBER: SA2XXDIP-C290D1080U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1
2.5°	505.5	505.2	505.2	503.7	505.2	505.2	505.5	507.1	507.7	507.9	507.3
5°	469.0	468.3	467.3	468.3	467.3	468.3	469.0	471.8	473.2	474.6	475.8
7.5°	432.7	430.3	430.0	427.6	430.0	430.3	432.7	434.1	436.9	440.1	443.1
10°	406.4	404.7	404.5	400.6	404.5	404.7	406.4	409.8	412.6	416.4	420.5
12.5°	386.3	382.4	383.2	380.9	383.2	382.4	386.3	386.3	389.6	392.0	398.3
15°	351.4	351.4	350.6	347.2	350.6	351.4	351.4	357.0	357.9	361.8	367.2
17.5°	326.5	326.0	324.1	325.1	324.1	326.0	326.5	330.5	331.2	336.3	340.8
20°	311.6	310.3	307.9	307.9	307.9	310.3	311.6	313.8	316.4	319.4	323.3
22.5°	297.5	297.4	294.8	295.6	294.8	297.4	297.5	299.5	302.0	305.3	308.5
25°	281.0	279.4	278.1	278.7	278.1	279.4	281.0	281.2	284.0	286.2	288.3
27.5°	265.3	264.4	264.3	262.7	264.3	264.4	265.3	265.8	267.4	268.8	270.6
30°	256.3	254.2	254.6	253.6	254.6	254.2	256.3	256.5	257.3	258.1	260.3
32.5°	245.8	245.1	244.8	243.9	244.8	245.1	245.8	246.2	247.9	248.7	250.4
35°	231.8	231.9	231.0	231.3	231.0	231.9	231.8	232.1	232.4	233.2	234.8
37.5°	219.4	220.0	219.5	219.6	219.5	220.0	219.4	219.5	219.8	219.9	220.4
40°	211.2	211.2	211.2	211.9	211.2	211.2	211.2	210.7	210.9	210.7	210.7
42.5°	203.5	203.1	202.9	202.8	202.9	203.1	203.5	202.1	202.8	202.1	201.8
45°	190.2	190.8	191.0	190.0	191.0	190.8	190.2	189.8	189.2	189.0	188.8
47.5°	178.2	178.3	178.2	179.1	178.2	178.3	178.2	177.6	176.7	176.4	175.4
50°	169.8	169.3	169.8	169.3	169.8	169.3	169.8	168.7	168.1	167.1	166.3
52.5°	160.9	161.0	160.7	160.6	160.7	161.0	160.9	159.5	159.3	158.8	157.6
55°	146.9	147.2	147.0	147.0	147.0	147.2	146.9	146.1	145.9	144.6	143.4
57.5°	132.4	132.8	133.0	132.2	133.0	132.8	132.4	132.2	132.2	130.8	129.6
60°	122.3	123.3	123.1	122.8	123.1	123.3	122.3	122.5	122.0	121.1	120.3
62.5°	113.1	113.5	113.4	113.3	113.4	113.5	113.1	112.2	111.9	111.1	110.3
65°	98.9	99.2	98.6	99.2	98.6	99.2	98.9	98.3	96.8	96.4	95.6
67.5°	83.5	83.6	84.1	84.4	84.1	83.6	83.5	83.7	82.8	82.0	81.9
70°	73.9	73.7	74.4	75.0	74.4	73.7	73.9	73.6	72.9	72.3	71.5
72.5°	63.8	64.3	64.1	64.6	64.1	64.3	63.8	63.9	63.4	62.6	61.8
75°	49.2	49.8	49.7	50.2	49.7	49.8	49.2	49.7	49.2	48.4	47.6
77.5°	35.6	35.7	35.6	35.9	35.6	35.7	35.6	35.9	35.5	35.8	34.8
80°	27.1	26.8	26.3	27.1	26.3	26.8	27.1	27.1	26.6	27.1	26.6
82.5°	18.9	19.1	18.7	18.7	18.7	19.1	18.9	19.4	19.1	19.4	18.7
85°	8.7	8.5	8.1	8.1	8.1	8.5	8.7	8.7	9.3	8.9	8.9
87.5°	8.6	8.4	8.5	8.4	8.5	8.4	8.6	8.5	8.5	8.9	9.0
90°	34.5	34.8	35.0	35.2	35.0	34.8	34.5	34.3	34.4	34.9	35.3
92.5°	33.4	33.4	33.5	33.5	33.5	33.4	33.4	33.3	33.3	33.2	33.1
95°	65.6	65.2	64.6	64.2	64.6	65.2	65.6	66.1	66.3	66.3	66.3
97.5°	111.4	111.4	111.3	111.3	111.3	111.4	111.4	111.5	111.5	111.5	111.5
100°	142.6	142.4	142.1	141.9	142.1	142.4	142.6	142.9	142.9	142.9	142.9
102.5°	177.4	177.2	176.9	176.7	176.9	177.2	177.4	177.6	177.6	177.5	177.3
105°	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0	229.7	229.3	228.8
107.5°	283.3	282.2	281.2	280.1	281.2	282.2	283.3	284.3	284.7	284.5	284.4
110°	321.1	320.4	319.7	319.1	319.7	320.4	321.1	321.8	322.2	322.2	322.2



TEST NUMBER: P331277-940

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	357.8	357.3	356.9	356.3	356.9	357.3	357.8	358.4	358.9	359.4	360.0
115°	416.4	415.7	415.0	414.3	415.0	415.7	416.4	417.1	417.5	417.8	418.0
117.5°	471.7	471.0	470.3	469.7	470.3	471.0	471.7	472.4	473.1	473.6	474.1
120°	510.7	510.0	509.3	508.5	509.3	510.0	510.7	511.3	511.7	511.7	511.7
122.5°	548.2	547.7	547.2	546.7	547.2	547.7	548.2	548.8	549.2	549.8	550.4
125°	605.6	605.4	605.1	604.9	605.1	605.4	605.6	605.8	606.3	607.0	607.7
127.5°	660.1	659.4	658.7	657.9	658.7	659.4	660.1	660.8	661.6	662.5	663.3
130°	698.8	697.9	697.0	696.1	697.0	697.9	698.8	699.7	700.4	700.9	701.3
132.5°	734.8	734.0	733.3	732.5	733.3	734.0	734.8	735.5	736.4	737.4	738.3
135°	791.3	790.7	790.0	789.3	790.0	790.7	791.3	792.0	792.5	792.7	793.0
137.5°	843.4	842.5	841.6	840.6	841.6	842.5	843.4	844.4	844.9	845.1	845.3
140°	879.0	878.2	877.2	876.3	877.2	878.2	879.0	879.9	880.4	880.4	880.4
142.5°	911.3	910.4	909.5	908.6	909.5	910.4	911.3	912.3	912.7	912.5	912.3
145°	959.8	958.9	958.0	957.1	958.0	958.9	959.8	960.7	961.1	960.9	960.6
147.5°	1003.0	1002.1	1001.2	1000.4	1001.2	1002.1	1003.0	1003.9	1004.1	1003.5	1003.1
150°	1030.6	1029.9	1029.2	1028.6	1029.2	1029.9	1030.6	1031.4	1031.4	1030.6	1029.9
152.5°	1057.7	1056.9	1056.0	1055.1	1056.0	1056.9	1057.7	1058.5	1058.5	1057.7	1056.9
155°	1092.8	1092.1	1091.4	1090.7	1091.4	1092.1	1092.8	1093.4	1093.2	1092.1	1090.9
157.5°	1124.6	1123.6	1122.5	1121.3	1122.5	1123.6	1124.6	1125.8	1125.5	1124.0	1122.4
160°	1143.2	1142.3	1141.3	1140.4	1141.3	1142.3	1143.2	1144.1	1143.9	1142.5	1141.1
162.5°	1160.3	1159.2	1158.1	1157.0	1158.1	1159.2	1160.3	1161.4	1161.2	1159.6	1158.1
165°	1182.2	1181.1	1179.9	1178.8	1179.9	1181.1	1182.2	1183.3	1183.1	1181.5	1179.9
167.5°	1200.2	1198.9	1197.7	1196.6	1197.7	1198.9	1200.2	1201.3	1201.1	1199.5	1197.9
170°	1209.8	1208.4	1207.0	1205.7	1207.0	1208.4	1209.8	1211.2	1211.0	1209.4	1207.8
172.5°	1217.3	1215.8	1214.5	1213.1	1214.5	1215.8	1217.3	1218.6	1218.5	1216.9	1215.3
175°	1225.4	1224.0	1222.6	1221.2	1222.6	1224.0	1225.4	1226.7	1226.6	1225.0	1223.4
177.5°	1228.2	1227.2	1226.0	1224.9	1226.0	1227.2	1228.2	1229.3	1229.3	1228.2	1227.2
180°	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1
2.5°	506.5	508.3	511.0	514.0	515.8	519.2	520.1	521.7	523.2	526.6	530.1
5°	477.2	480.1	486.8	490.4	495.4	501.3	505.2	509.3	513.7	521.4	528.5
7.5°	445.9	450.6	459.0	465.7	473.0	481.3	487.4	495.4	502.1	513.0	523.3
10°	425.0	431.7	439.2	447.3	457.4	466.3	474.8	484.9	493.0	506.0	518.2
12.5°	406.2	407.2	417.9	426.9	440.7	451.7	461.5	474.6	482.5	497.9	510.7
15°	373.4	379.4	389.1	396.2	412.6	426.6	440.4	454.0	463.1	482.1	498.9
17.5°	345.6	351.2	361.2	372.8	384.6	398.5	416.3	430.7	443.1	464.8	484.7
20°	328.1	335.0	345.2	357.1	367.5	382.6	398.1	414.5	427.8	452.4	475.6
22.5°	313.3	318.7	326.9	338.7	349.9	363.8	380.7	398.6	412.6	439.1	462.6
25°	292.3	296.8	302.0	311.7	324.5	339.7	352.8	372.6	393.0	417.7	446.2
27.5°	273.4	276.6	281.2	289.8	299.7	313.9	328.5	347.1	367.7	394.6	424.7
30°	261.9	263.9	268.6	275.7	285.4	296.6	311.4	329.1	350.3	377.4	407.3
32.5°	251.9	253.7	256.8	263.5	272.0	281.5	294.8	312.6	332.7	359.4	392.6
35°	236.8	238.2	240.9	246.3	251.0	260.3	271.4	287.7	306.5	332.0	366.4
37.5°	221.8	223.7	225.3	227.7	233.6	239.8	249.4	263.1	281.6	307.4	340.2
40°	211.9	213.5	216.0	217.0	221.8	227.3	235.1	247.7	266.4	289.9	321.9
42.5°	201.8	203.5	204.9	206.1	210.3	215.1	222.2	233.0	249.5	272.3	304.1
45°	188.2	188.4	189.8	192.1	194.0	197.5	202.6	211.9	224.6	246.1	274.9
47.5°	174.3	174.6	174.8	175.8	178.0	181.1	184.5	192.1	203.5	220.6	248.6
50°	165.1	164.7	165.1	165.9	167.3	170.0	173.8	179.2	188.6	204.6	230.3
52.5°	156.1	156.1	155.9	156.1	157.3	159.1	161.8	166.5	174.8	189.5	212.1
55°	142.6	141.6	141.8	141.0	142.9	143.2	145.3	149.1	156.4	166.5	187.8
57.5°	128.1	127.3	126.4	126.2	126.0	127.1	128.7	131.7	137.3	146.2	163.5
60°	118.9	117.9	116.6	116.3	116.3	116.9	117.7	119.9	125.2	133.0	147.2
62.5°	109.5	108.3	107.6	106.6	106.2	106.8	107.6	109.2	113.1	120.5	132.7
65°	95.0	93.5	92.6	92.4	91.9	91.4	91.8	93.4	96.4	102.3	112.0
67.5°	80.4	79.1	78.9	77.7	77.1	77.2	77.1	78.5	80.3	85.4	92.6
70°	70.9	69.9	69.5	68.5	68.0	67.7	67.2	68.5	70.3	74.5	80.8
72.5°	61.2	60.3	59.5	58.6	58.7	58.2	58.1	58.9	60.4	64.3	69.2
75°	47.2	47.4	46.4	45.4	45.2	44.8	44.8	45.4	46.0	49.0	52.9
77.5°	34.2	34.1	33.3	32.9	32.7	32.3	32.7	33.1	33.4	35.5	38.3
80°	26.1	26.1	25.1	25.1	24.9	24.3	24.9	24.5	25.3	27.4	29.3
82.5°	18.6	18.4	18.3	18.0	17.9	17.5	17.7	18.2	18.5	19.9	21.1
85°	9.1	9.1	8.9	8.7	8.9	8.7	8.9	9.1	9.3	9.9	11.0
87.5°	9.1	9.4	8.5	7.7	6.6	5.8	5.2	4.8	4.5	4.2	3.7
90°	35.8	36.3	31.2	26.1	21.0	16.0	12.1	9.4	6.6	3.8	1.1
92.5°	33.0	32.9	31.7	30.6	29.3	28.2	26.6	24.5	22.5	20.4	18.5
95°	66.3	66.3	65.8	65.4	64.9	64.5	63.0	60.7	58.5	56.2	53.9
97.5°	111.5	111.5	110.6	109.7	108.8	108.0	106.5	104.5	102.5	100.4	98.4
100°	142.9	142.9	142.2	141.5	140.9	140.2	138.9	137.1	135.3	133.4	131.5
102.5°	177.1	176.9	176.0	175.1	174.3	173.4	172.3	170.8	169.3	167.8	166.4
105°	228.4	227.8	227.4	226.9	226.5	226.0	225.4	224.8	224.1	223.4	222.7
107.5°	284.2	284.0	284.0	284.0	284.0	284.0	283.5	282.5	281.5	280.4	279.5
110°	322.2	322.2	322.2	322.2	322.2	322.2	321.5	320.0	318.7	317.3	315.9



TEST NUMBER: P331277-940

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	360.5	361.1	361.2	361.4	361.6	361.9	361.2	359.8	358.5	357.0	355.7
115°	418.2	418.5	418.9	419.4	419.8	420.3	419.8	418.5	417.1	415.7	414.3
117.5°	474.7	475.2	476.5	477.8	479.1	480.4	480.1	478.2	476.4	474.6	472.7
120°	511.7	511.7	513.5	515.4	517.2	519.1	519.1	517.2	515.4	513.5	511.7
122.5°	550.9	551.4	552.8	554.0	555.4	556.6	556.2	553.9	551.7	549.6	547.3
125°	608.3	609.0	609.8	610.5	611.1	611.8	611.1	609.0	607.0	604.9	602.8
127.5°	664.1	664.9	665.8	666.6	667.4	668.3	667.4	664.8	662.2	659.5	656.9
130°	701.8	702.3	702.8	703.2	703.6	704.1	702.8	699.8	696.9	693.8	690.9
132.5°	739.4	740.4	740.3	740.2	740.1	740.0	738.8	736.3	733.9	731.5	729.0
135°	793.2	793.4	793.0	792.5	792.0	791.6	790.1	787.6	785.1	782.5	780.0
137.5°	845.4	845.6	845.0	844.5	843.8	843.2	841.9	839.8	837.8	835.7	833.6
140°	880.4	880.4	879.3	878.2	877.0	875.8	874.2	872.2	870.0	868.0	865.9
142.5°	912.1	912.0	911.2	910.3	909.5	908.7	907.3	905.3	903.2	901.2	899.1
145°	960.4	960.2	958.8	957.4	956.0	954.7	953.1	951.5	949.9	948.3	946.7
147.5°	1002.6	1002.0	1001.1	1000.2	999.3	998.4	996.9	995.0	993.0	991.1	989.2
150°	1029.2	1028.6	1027.6	1026.7	1025.8	1024.8	1023.7	1022.3	1020.9	1019.6	1018.2
152.5°	1056.0	1055.1	1054.0	1052.8	1051.8	1050.6	1049.4	1048.0	1046.6	1045.3	1043.8
155°	1089.8	1088.6	1088.0	1087.3	1086.5	1085.8	1085.2	1084.5	1083.8	1083.1	1082.4
157.5°	1120.9	1119.3	1118.8	1118.5	1118.0	1117.6	1117.2	1116.7	1116.2	1115.8	1115.4
160°	1139.7	1138.4	1138.1	1137.9	1137.6	1137.4	1137.1	1136.6	1136.1	1135.7	1135.2
162.5°	1156.5	1154.9	1154.7	1154.4	1154.2	1154.0	1153.9	1153.7	1153.6	1153.5	1153.4
165°	1178.3	1176.7	1176.7	1176.7	1176.7	1176.7	1176.8	1177.0	1177.2	1177.5	1177.7
167.5°	1196.3	1194.7	1194.7	1194.8	1194.8	1194.9	1195.2	1196.0	1196.6	1197.3	1198.0
170°	1206.2	1204.6	1204.9	1205.1	1205.3	1205.6	1206.0	1206.7	1207.4	1208.1	1208.8
172.5°	1213.7	1212.1	1212.3	1212.5	1212.8	1213.0	1213.4	1214.2	1214.9	1215.6	1216.2
175°	1221.8	1220.1	1220.7	1221.1	1221.6	1222.0	1222.6	1223.2	1224.0	1224.7	1225.4
177.5°	1226.0	1224.9	1225.3	1225.7	1226.0	1226.4	1226.9	1227.4	1228.0	1228.5	1229.0
180°	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4



TEST NUMBER: P331277-940

CATALOG NUMBER: SA2XXDIP-C290D1080U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1
2.5°	529.9	530.7	533.2	535.8	538.8	539.6	540.8	539.8	539.4	542.4	544.7
5°	531.4	534.9	542.1	548.6	554.0	557.9	562.0	563.6	566.6	570.8	576.1
7.5°	529.6	536.7	547.9	557.3	567.6	575.0	580.8	585.8	591.7	599.8	608.6
10°	527.7	537.2	550.8	562.3	574.9	584.4	592.3	600.0	608.9	620.1	631.6
12.5°	524.1	535.4	552.4	566.1	582.2	591.6	602.2	618.8	628.4	643.9	660.1
15°	516.9	529.5	553.2	570.0	588.3	606.1	625.7	641.5	657.3	666.5	689.3
17.5°	506.3	524.7	551.0	570.6	593.8	621.8	643.9	661.8	680.0	694.8	706.3
20°	497.7	517.7	547.8	571.2	598.8	628.9	654.2	672.5	688.3	700.7	707.8
22.5°	486.9	512.1	541.3	568.8	604.0	633.8	660.4	674.8	688.0	694.0	696.8
25°	469.8	500.2	533.2	566.8	606.5	638.1	662.4	671.1	674.9	669.1	659.3
27.5°	451.3	485.2	523.8	562.9	604.9	635.3	652.7	651.4	644.9	625.8	610.6
30°	437.6	474.8	516.3	559.1	601.2	630.8	640.9	630.8	616.0	594.8	573.0
32.5°	423.1	461.7	508.4	553.6	594.4	620.5	622.6	605.2	582.3	558.1	531.1
35°	401.3	443.0	493.5	541.3	580.0	596.4	586.7	555.8	528.7	495.7	458.8
37.5°	376.6	422.7	473.2	523.3	558.3	562.6	538.4	506.0	467.7	428.9	385.5
40°	358.1	407.0	459.1	509.4	540.5	536.0	505.2	469.6	424.0	376.6	336.3
42.5°	341.6	390.4	443.4	492.9	517.7	505.5	469.6	425.8	376.8	332.2	295.2
45°	313.0	363.2	417.5	465.3	479.5	457.4	409.8	361.1	313.0	275.7	246.6
47.5°	285.2	334.8	388.6	430.6	435.6	405.9	353.9	303.9	262.4	232.1	211.5
50°	264.7	314.6	367.8	405.4	403.7	367.8	314.4	266.8	232.1	207.6	193.9
52.5°	246.5	293.6	344.6	378.8	370.1	331.1	280.0	237.7	209.3	190.1	177.6
55°	217.9	261.5	310.1	337.5	321.6	278.3	235.1	201.2	180.0	165.7	156.0
57.5°	189.7	230.5	272.2	289.0	271.5	231.5	195.6	170.9	155.0	144.4	138.0
60°	172.2	207.9	244.9	259.5	238.6	203.0	174.6	152.6	139.7	131.1	125.4
62.5°	154.7	186.6	221.6	229.5	210.4	180.3	155.2	136.8	126.4	118.6	113.2
65°	130.8	157.0	183.5	188.8	171.2	147.8	128.0	116.1	106.7	101.1	96.8
67.5°	107.4	128.3	147.1	151.3	135.9	119.8	105.4	95.0	88.7	84.0	80.3
70°	93.4	110.0	125.4	128.9	116.5	102.1	91.1	82.8	77.1	73.1	69.6
72.5°	78.6	92.5	105.3	107.6	97.6	86.5	77.6	71.0	66.0	63.4	60.1
75°	60.2	68.3	78.2	78.8	72.1	65.5	58.6	54.3	51.6	48.4	46.8
77.5°	42.4	48.8	54.5	55.6	51.6	47.1	43.2	39.9	37.6	36.1	34.6
80°	32.4	37.5	39.9	41.3	38.5	35.2	33.0	30.8	29.3	28.4	27.4
82.5°	23.2	26.3	28.5	29.7	28.1	26.1	24.0	22.6	21.6	20.8	20.4
85°	11.8	13.2	14.6	15.0	14.6	13.7	12.6	12.6	11.9	11.8	11.8
87.5°	4.8	6.0	6.6	7.6	8.0	9.1	10.1	11.0	11.8	11.5	11.2
90°	3.8	6.6	9.4	12.1	16.0	21.0	26.1	31.2	36.3	35.8	35.3
92.5°	20.4	22.5	24.5	26.6	28.2	29.3	30.6	31.7	32.9	33.0	33.1
95°	56.2	58.5	60.7	63.0	64.5	64.9	65.4	65.8	66.3	66.3	66.3
97.5°	100.4	102.5	104.5	106.5	108.0	108.8	109.7	110.6	111.5	111.5	111.5
100°	133.4	135.3	137.1	138.9	140.2	140.9	141.5	142.2	142.9	142.9	142.9
102.5°	167.8	169.3	170.8	172.3	173.4	174.3	175.1	176.0	176.9	177.1	177.3
105°	223.4	224.1	224.8	225.4	226.0	226.5	226.9	227.4	227.8	228.4	228.8
107.5°	280.4	281.5	282.5	283.5	284.0	284.0	284.0	284.0	284.0	284.2	284.4
110°	317.3	318.7	320.0	321.5	322.2	322.2	322.2	322.2	322.2	322.2	322.2





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	357.0	358.5	359.8	361.2	361.9	361.6	361.4	361.2	361.1	360.5	360.0
115°	415.7	417.1	418.5	419.8	420.3	419.8	419.4	418.9	418.5	418.2	418.0
117.5°	474.6	476.4	478.2	480.1	480.4	479.1	477.8	476.5	475.2	474.7	474.1
120°	513.5	515.4	517.2	519.1	519.1	517.2	515.4	513.5	511.7	511.7	511.7
122.5°	549.6	551.7	553.9	556.2	556.6	555.4	554.0	552.8	551.4	550.9	550.4
125°	604.9	607.0	609.0	611.1	611.8	611.1	610.5	609.8	609.0	608.3	607.7
127.5°	659.5	662.2	664.8	667.4	668.3	667.4	666.6	665.8	664.9	664.1	663.3
130°	693.8	696.9	699.8	702.8	704.1	703.6	703.2	702.8	702.3	701.8	701.3
132.5°	731.5	733.9	736.3	738.8	740.0	740.1	740.2	740.3	740.4	739.4	738.3
135°	782.5	785.1	787.6	790.1	791.6	792.0	792.5	793.0	793.4	793.2	793.0
137.5°	835.7	837.8	839.8	841.9	843.2	843.8	844.5	845.0	845.6	845.4	845.3
140°	868.0	870.0	872.2	874.2	875.8	877.0	878.2	879.3	880.4	880.4	880.4
142.5°	901.2	903.2	905.3	907.3	908.7	909.5	910.3	911.2	912.0	912.1	912.3
145°	948.3	949.9	951.5	953.1	954.7	956.0	957.4	958.8	960.2	960.4	960.6
147.5°	991.1	993.0	995.0	996.9	998.4	999.3	1000.2	1001.1	1002.0	1002.6	1003.1
150°	1019.6	1020.9	1022.3	1023.7	1024.8	1025.8	1026.7	1027.6	1028.6	1029.2	1029.9
152.5°	1045.3	1046.6	1048.0	1049.4	1050.6	1051.8	1052.8	1054.0	1055.1	1056.0	1056.9
155°	1083.1	1083.8	1084.5	1085.2	1085.8	1086.5	1087.3	1088.0	1088.6	1089.8	1090.9
157.5°	1115.8	1116.2	1116.7	1117.2	1117.6	1118.0	1118.5	1118.8	1119.3	1120.9	1122.4
160°	1135.7	1136.1	1136.6	1137.1	1137.4	1137.6	1137.9	1138.1	1138.4	1139.7	1141.1
162.5°	1153.5	1153.6	1153.7	1153.9	1154.0	1154.2	1154.4	1154.7	1154.9	1156.5	1158.1
165°	1177.5	1177.2	1177.0	1176.8	1176.7	1176.7	1176.7	1176.7	1176.7	1178.3	1179.9
167.5°	1197.3	1196.6	1196.0	1195.2	1194.9	1194.8	1194.8	1194.7	1194.7	1196.3	1197.9
170°	1208.1	1207.4	1206.7	1206.0	1205.6	1205.3	1205.1	1204.9	1204.6	1206.2	1207.8
172.5°	1215.6	1214.9	1214.2	1213.4	1213.0	1212.8	1212.5	1212.3	1212.1	1213.7	1215.3
175°	1224.7	1224.0	1223.2	1222.6	1222.0	1221.6	1221.1	1220.7	1220.1	1221.8	1223.4
177.5°	1228.5	1228.0	1227.4	1226.9	1226.4	1226.0	1225.7	1225.3	1224.9	1226.0	1227.2
180°	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	527.1	527.1	527.1	527.1	527.1	527.1	527.1
2.5°	546.7	548.9	548.9	549.3	551.9	551.5	551.3
5°	581.8	585.2	585.6	589.2	591.7	590.8	588.6
7.5°	614.8	621.3	626.2	628.8	632.0	634.0	633.1
10°	641.1	650.4	656.1	660.0	664.6	668.1	666.8
12.5°	664.9	676.0	683.9	690.5	691.0	695.4	692.4
15°	702.1	713.8	715.1	719.9	723.8	723.4	723.5
17.5°	714.3	718.1	718.9	719.0	719.1	717.6	714.5
20°	710.0	708.6	705.2	702.5	697.9	697.2	693.2
22.5°	689.2	684.7	676.1	670.4	663.2	661.3	660.1
25°	648.5	638.5	624.7	611.5	607.9	600.8	602.8
27.5°	592.4	576.9	562.0	551.3	541.6	531.0	534.0
30°	553.0	535.6	514.5	498.3	487.9	477.9	476.0
32.5°	506.0	480.5	457.0	442.7	426.9	420.4	413.5
35°	425.0	400.0	376.7	356.7	345.2	336.3	328.1
37.5°	352.1	323.4	304.6	288.4	280.0	274.9	276.3
40°	306.9	281.8	268.0	255.7	247.9	244.3	245.1
42.5°	270.3	251.5	240.1	231.7	226.2	224.2	223.7
45°	228.7	218.2	208.8	204.0	201.3	199.1	197.7
47.5°	200.4	191.7	186.5	183.6	181.3	179.1	179.0
50°	183.3	177.6	174.0	170.9	169.2	167.6	169.0
52.5°	170.3	165.1	161.5	158.8	158.1	156.7	156.6
55°	151.1	147.0	144.5	142.0	140.8	140.0	138.9
57.5°	133.6	129.7	127.3	125.8	123.5	122.7	122.3
60°	121.1	118.1	115.7	113.6	112.6	111.0	111.0
62.5°	109.6	106.6	104.3	102.8	101.1	100.5	100.7
65°	93.0	90.5	88.3	86.7	86.3	85.1	85.5
67.5°	77.7	76.1	73.7	72.8	72.1	71.4	70.9
70°	67.4	65.8	64.6	63.4	62.8	62.8	62.8
72.5°	58.9	56.9	56.2	54.7	55.0	54.4	53.7
75°	45.6	44.3	43.8	43.2	42.2	42.2	42.2
77.5°	33.5	33.2	32.5	31.8	31.6	31.4	31.5
80°	25.9	25.7	25.3	25.3	24.9	24.7	24.3
82.5°	20.0	19.4	19.2	19.0	18.9	18.9	18.8
85°	11.3	11.0	11.0	11.1	10.7	10.7	11.0
87.5°	11.3	11.2	11.1	11.1	11.3	11.2	11.2
90°	34.9	34.4	34.3	34.5	34.8	35.0	35.2
92.5°	33.2	33.3	33.3	33.4	33.4	33.5	33.5
95°	66.3	66.3	66.1	65.6	65.2	64.6	64.2
97.5°	111.5	111.5	111.5	111.4	111.4	111.3	111.3
100°	142.9	142.9	142.9	142.6	142.4	142.1	141.9
102.5°	177.5	177.6	177.6	177.4	177.2	176.9	176.7
105°	229.3	229.7	230.0	230.0	230.0	230.0	230.0
107.5°	284.5	284.7	284.3	283.3	282.2	281.2	280.1
110°	322.2	322.2	321.8	321.1	320.4	319.7	319.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	359.4	358.9	358.4	357.8	357.3	356.9	356.3
115°	417.8	417.5	417.1	416.4	415.7	415.0	414.3
117.5°	473.6	473.1	472.4	471.7	471.0	470.3	469.7
120°	511.7	511.7	511.3	510.7	510.0	509.3	508.5
122.5°	549.8	549.2	548.8	548.2	547.7	547.2	546.7
125°	607.0	606.3	605.8	605.6	605.4	605.1	604.9
127.5°	662.5	661.6	660.8	660.1	659.4	658.7	657.9
130°	700.9	700.4	699.7	698.8	697.9	697.0	696.1
132.5°	737.4	736.4	735.5	734.8	734.0	733.3	732.5
135°	792.7	792.5	792.0	791.3	790.7	790.0	789.3
137.5°	845.1	844.9	844.4	843.4	842.5	841.6	840.6
140°	880.4	880.4	879.9	879.0	878.2	877.2	876.3
142.5°	912.5	912.7	912.3	911.3	910.4	909.5	908.6
145°	960.9	961.1	960.7	959.8	958.9	958.0	957.1
147.5°	1003.5	1004.1	1003.9	1003.0	1002.1	1001.2	1000.4
150°	1030.6	1031.4	1031.4	1030.6	1029.9	1029.2	1028.6
152.5°	1057.7	1058.5	1058.5	1057.7	1056.9	1056.0	1055.1
155°	1092.1	1093.2	1093.4	1092.8	1092.1	1091.4	1090.7
157.5°	1124.0	1125.5	1125.8	1124.6	1123.6	1122.5	1121.3
160°	1142.5	1143.9	1144.1	1143.2	1142.3	1141.3	1140.4
162.5°	1159.6	1161.2	1161.4	1160.3	1159.2	1158.1	1157.0
165°	1181.5	1183.1	1183.3	1182.2	1181.1	1179.9	1178.8
167.5°	1199.5	1201.1	1201.3	1200.2	1198.9	1197.7	1196.6
170°	1209.4	1211.0	1211.2	1209.8	1208.4	1207.0	1205.7
172.5°	1216.9	1218.5	1218.6	1217.3	1215.8	1214.5	1213.1
175°	1225.0	1226.6	1226.7	1225.4	1224.0	1222.6	1221.2
177.5°	1228.2	1229.3	1229.3	1228.2	1227.2	1226.0	1224.9
180°	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4

(END OF REPORT)