

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: P332402-930

Luminaire Tested: **S123RDIW-S340D1320U930-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332402-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIW-S340D1320U930-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1320 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5411.8 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Indirect

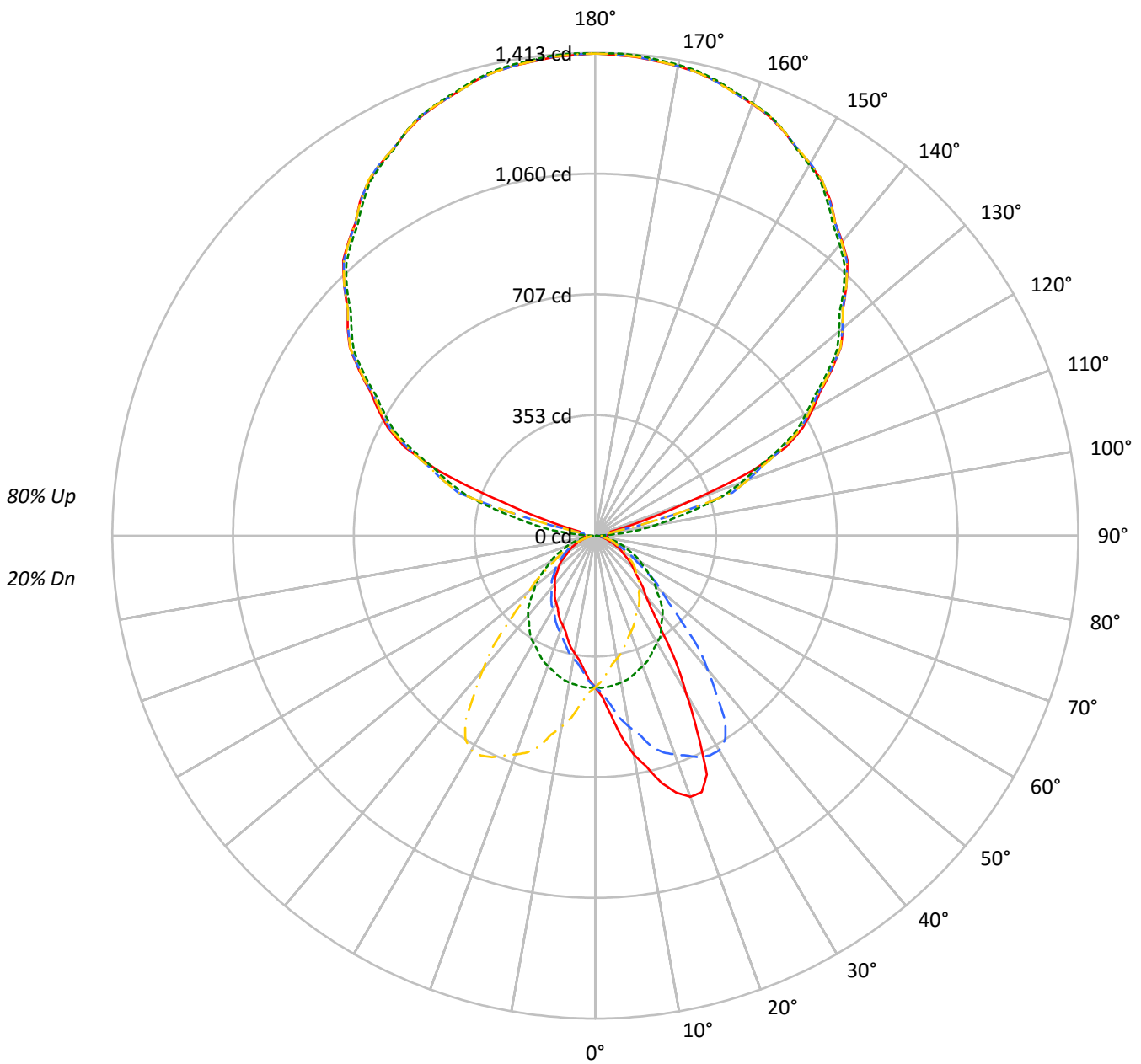
Input Watts (W): 46.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - - - 135°-315°



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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	100	100	100	100	89	89	89	89	67	67	67	47	47	47	29	29	29	20
1	91	87	84	80	81	77	74	72	59	57	55	42	41	40	26	25	25	18
2	83	76	71	66	74	68	63	59	52	49	46	37	35	33	23	22	21	15
3	76	67	61	55	67	60	54	50	46	42	39	33	30	28	21	19	18	13
4	70	60	52	47	61	53	47	42	41	36	33	29	27	24	19	17	16	11
5	64	53	45	40	56	47	41	36	36	32	29	26	23	21	17	15	14	10
6	59	47	40	34	52	42	36	31	33	28	25	24	21	19	15	14	12	9
7	54	43	35	30	48	38	32	27	30	25	22	22	19	16	14	12	11	8
8	50	39	31	26	44	35	28	24	27	22	19	20	17	15	13	11	10	7
9	47	35	28	23	41	31	25	21	25	20	17	18	15	13	12	10	9	7
10	43	32	25	21	38	29	23	19	22	18	15	17	14	12	11	9	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4776	4776	4776	4776
5°	5693	4796	4224	4796
10°	7109	4769	3816	4769
15°	8344	4719	3480	4719
20°	9313	4647	3194	4647
25°	9164	4570	3018	4570
30°	6586	4501	2838	4501
35°	4398	4407	2720	4407
40°	3240	4297	2599	4297
45°	2719	4102	2481	4102
50°	2398	3848	2316	3848
55°	2104	3558	2089	3558
60°	1873	3279	1914	3279
65°	1645	2980	1780	2980
70°	1290	2716	1627	2716
75°	1135	2371	1485	2371
80°	992	2008	1463	2008
85°	790	1618	1556	1618



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.6	0.8
10°-20°	136.3	2.5
20°-30°	214.2	4.0
30°-40°	223.4	4.1
40°-50°	191.2	3.5
50°-60°	145.7	2.7
60°-70°	93.4	1.7
70°-80°	44.9	0.8
80°-90°	15.8	0.3
90°-100°	51.3	0.9
100°-110°	244.5	4.5
110°-120°	587.3	10.9
120°-130°	747.9	13.8
130°-140°	799.1	14.8
140°-150°	747.2	13.8
150°-160°	602.7	11.1
160°-170°	389.0	7.2
170°-180°	134.1	2.5
0°-30°	394.1	7.3
0°-40°	617.6	11.4
0°-60°	954.5	17.6
0°-90°	1108.7	20.5
90°-120°	883.1	16.3
90°-150°	3177.3	58.7
90°-180°	4303.0	79.5
0°-180°	5411.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	444	444	444	444	444	
5°	527	444	391	444	527	54
15°	749	424	312	424	749	212
25°	772	385	254	385	772	332
35°	335	335	207	335	335	219
45°	179	270	163	270	179	140
55°	112	190	111	190	112	101
65°	65	117	70	117	65	64
75°	27	57	36	57	27	29
85°	6	13	13	13	6	8
90°	32	1	32	1	32	14
95°	40	64	40	64	40	33
105°	46	312	46	312	46	105
115°	616	586	616	586	616	570
125°	843	826	843	826	843	753
135°	1039	1028	1039	1028	1039	801
145°	1198	1187	1198	1187	1198	748
155°	1305	1307	1305	1307	1305	602
165°	1375	1379	1375	1379	1375	388
175°	1406	1411	1406	1411	1406	134
180°	1411	1411	1411	1411	1411	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7
2.5°	472.6	473.2	471.2	470.9	468.6	468.1	468.1	464.8	462.8	460.3	458.8
5°	526.9	529.9	528.4	525.1	519.3	518.0	514.4	508.7	502.2	494.2	490.5
7.5°	594.8	598.9	597.3	592.1	586.0	581.2	571.0	561.6	548.4	536.7	526.8
10°	650.4	646.0	642.6	637.5	631.9	623.1	612.4	597.8	580.9	567.5	552.8
12.5°	692.0	691.3	687.0	681.7	673.9	665.4	652.3	634.5	614.9	595.7	578.7
15°	748.8	749.9	747.1	741.6	730.5	715.5	695.8	688.4	660.2	639.4	618.5
17.5°	788.1	787.8	787.4	779.8	768.6	757.9	739.6	720.1	694.6	665.2	637.1
20°	813.0	811.1	811.5	802.9	794.6	782.2	764.3	736.1	715.2	681.2	652.1
22.5°	812.4	812.0	813.4	810.5	804.5	795.0	780.9	757.0	730.3	696.0	663.3
25°	771.6	770.1	778.9	781.5	791.2	792.9	788.6	775.6	750.3	714.9	674.5
27.5°	645.7	644.9	661.5	682.2	708.5	729.0	748.7	758.2	750.3	725.0	684.4
30°	529.9	547.8	556.2	586.2	619.6	659.5	694.5	727.7	735.9	724.8	691.6
32.5°	440.0	455.6	462.6	488.3	519.5	566.2	618.6	665.7	699.0	707.4	687.4
35°	334.7	334.8	350.8	362.2	391.1	439.1	490.1	553.1	615.8	663.3	668.2
37.5°	267.1	268.0	277.7	289.0	310.7	336.1	380.9	433.3	505.7	578.6	621.4
40°	230.6	232.3	239.5	250.7	266.3	285.5	320.4	369.8	430.2	511.4	577.6
42.5°	207.2	209.9	213.7	222.3	232.0	250.0	278.2	316.3	371.3	448.0	524.5
45°	178.6	180.1	183.0	186.9	195.7	208.1	227.1	252.8	298.4	360.1	436.7
47.5°	157.5	156.7	159.7	162.9	168.8	177.3	190.0	210.9	243.4	293.0	357.9
50°	143.2	143.0	145.1	147.6	153.1	159.4	169.8	185.6	211.4	252.4	311.9
52.5°	129.9	130.5	132.1	135.1	139.1	144.1	153.5	164.9	187.1	222.5	272.1
55°	112.1	112.7	114.7	116.4	119.3	124.4	130.3	139.8	155.0	179.7	220.5
57.5°	97.0	96.8	98.7	99.2	102.4	106.6	111.1	118.5	129.6	147.9	175.4
60°	87.0	86.4	88.1	89.4	91.2	94.6	98.4	105.6	114.4	127.8	151.4
62.5°	77.9	77.6	78.8	80.2	81.6	84.7	87.9	93.4	100.4	111.7	130.4
65°	64.6	65.1	65.7	66.3	67.0	69.0	72.0	75.8	80.6	88.5	102.0
67.5°	50.8	51.4	51.5	52.7	54.3	55.5	57.4	60.7	64.1	70.8	78.4
70°	41.0	40.8	41.0	41.6	43.7	45.7	48.3	50.7	52.8	57.6	64.0
72.5°	35.2	34.9	35.4	35.5	36.5	37.1	38.6	41.0	43.7	46.9	51.5
75°	27.3	27.3	27.3	27.3	28.1	28.5	29.0	29.6	30.6	32.1	35.5
77.5°	20.2	20.2	20.5	20.7	20.9	21.1	21.4	22.0	22.3	23.2	24.6
80°	16.0	16.1	16.0	16.1	16.1	16.6	16.7	17.3	17.4	18.4	19.0
82.5°	12.0	11.9	12.0	12.2	12.2	12.6	12.6	13.0	13.0	13.5	14.1
85°	6.4	6.1	6.4	6.3	6.7	6.3	6.4	6.8	6.8	7.0	7.8
87.5°	7.8	8.0	7.7	7.7	7.6	7.6	7.4	7.3	7.3	7.0	6.5
90°	31.5	31.0	30.5	30.1	29.6	28.9	28.0	27.0	26.1	25.2	22.1
92.5°	34.8	34.5	34.2	34.0	33.7	32.8	31.3	29.8	28.3	26.8	24.5
95°	39.9	39.9	39.9	39.9	39.9	39.1	37.4	35.8	34.2	32.5	29.9
97.5°	43.2	43.0	42.7	42.5	42.2	41.2	39.4	37.5	35.6	33.8	30.5
100°	44.0	43.8	43.5	43.3	43.1	42.1	40.2	38.3	36.4	34.6	30.9
102.5°	44.8	44.4	44.0	43.6	43.2	45.9	51.6	57.4	63.2	69.0	108.7
105°	46.1	45.7	45.2	44.8	44.3	64.7	105.9	147.1	188.3	229.6	250.5
107.5°	144.9	175.9	207.0	238.1	269.2	299.9	330.1	360.4	390.5	420.8	417.5
110°	288.3	321.6	354.9	388.2	421.5	442.1	449.7	457.4	465.1	472.8	470.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	494.6	501.7	508.7	515.7	522.8	526.2	526.0	525.9	525.8	525.6	523.1
115°	616.4	615.5	614.6	613.6	612.7	611.1	608.7	606.4	604.1	601.8	599.7
117.5°	684.8	684.6	684.4	684.2	684.0	683.0	681.1	679.3	677.4	675.6	674.5
120°	731.7	731.7	731.7	731.7	731.7	730.8	729.0	727.1	725.2	723.3	722.7
122.5°	777.9	777.7	777.5	777.3	777.1	776.4	775.1	773.8	772.5	771.2	770.3
125°	842.9	842.4	842.0	841.5	841.0	840.5	840.1	839.6	839.1	838.7	837.7
127.5°	905.3	905.8	906.3	906.8	907.2	907.1	906.3	905.6	904.8	904.1	902.9
130°	945.6	946.1	946.6	947.0	947.5	947.2	946.3	945.3	944.4	943.5	942.6
132.5°	982.5	983.2	983.8	984.5	985.1	985.0	984.1	983.1	982.2	981.2	980.5
135°	1038.9	1039.6	1040.3	1041.0	1041.7	1041.7	1041.0	1040.3	1039.6	1038.9	1038.0
137.5°	1091.9	1092.4	1092.9	1093.3	1093.8	1093.5	1092.3	1091.3	1090.1	1089.0	1088.5
140°	1123.8	1124.3	1124.7	1125.2	1125.7	1125.4	1124.5	1123.6	1122.7	1121.7	1121.0
142.5°	1153.2	1153.8	1154.5	1155.1	1155.8	1155.8	1155.0	1154.2	1153.5	1152.8	1152.0
145°	1198.2	1198.2	1198.2	1198.2	1198.2	1198.0	1197.5	1197.1	1196.6	1196.1	1195.7
147.5°	1231.8	1232.9	1234.0	1235.0	1236.1	1236.4	1235.9	1235.4	1235.0	1234.5	1234.0
150°	1256.9	1257.7	1258.3	1259.1	1259.7	1259.9	1259.4	1258.9	1258.5	1258.0	1257.5
152.5°	1277.1	1278.1	1279.2	1280.3	1281.4	1281.5	1280.7	1279.8	1279.0	1278.1	1277.8
155°	1305.2	1306.6	1308.0	1309.4	1310.8	1310.9	1309.7	1308.6	1307.4	1306.2	1306.0
157.5°	1328.9	1330.6	1332.5	1334.3	1336.1	1336.4	1335.0	1333.6	1332.1	1330.7	1331.0
160°	1343.9	1345.6	1347.2	1348.8	1350.5	1350.6	1349.2	1347.8	1346.4	1345.0	1345.2
162.5°	1358.2	1359.7	1361.1	1362.5	1364.0	1363.9	1362.4	1360.7	1359.2	1357.6	1357.8
165°	1375.4	1377.0	1378.7	1380.3	1381.9	1381.9	1380.0	1378.1	1376.2	1374.4	1374.6
167.5°	1387.8	1389.7	1391.6	1393.3	1395.2	1395.2	1393.3	1391.6	1389.7	1387.8	1387.8
170°	1395.3	1397.2	1399.1	1400.9	1402.8	1402.8	1400.9	1399.1	1397.2	1395.3	1395.3
172.5°	1399.5	1401.6	1403.6	1405.7	1407.7	1407.9	1406.0	1404.1	1402.2	1400.4	1400.2
175°	1405.8	1407.7	1409.6	1411.4	1413.2	1413.4	1411.8	1410.1	1408.5	1406.9	1406.6
177.5°	1407.7	1409.6	1411.4	1413.3	1415.2	1415.4	1413.9	1412.3	1410.9	1409.4	1409.2
180°	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7
2.5°	458.1	457.7	455.6	453.1	450.0	447.8	446.1	445.2	442.5	439.1	436.9
5°	486.5	480.8	474.7	467.2	460.4	453.4	449.1	443.9	437.7	430.6	425.7
7.5°	516.7	505.6	493.6	481.1	468.9	457.9	448.1	439.8	429.8	419.7	412.7
10°	540.1	523.7	506.8	489.5	473.8	458.9	447.5	436.3	424.4	412.8	404.0
12.5°	561.2	539.6	520.2	498.9	478.7	461.1	444.7	431.5	417.0	404.7	394.8
15°	587.9	565.8	542.3	510.0	483.2	460.8	440.8	423.5	406.1	390.9	381.2
17.5°	612.9	579.8	548.0	521.1	486.3	458.4	434.0	413.4	394.1	378.1	366.1
20°	623.2	591.1	556.8	522.4	488.2	456.8	428.5	405.7	385.8	367.5	356.5
22.5°	629.4	593.1	556.8	519.9	483.6	451.0	423.1	397.9	376.3	359.1	345.4
25°	636.7	593.4	553.5	517.1	480.0	444.7	411.4	384.8	361.5	343.1	328.6
27.5°	641.5	590.5	543.4	502.9	465.3	430.2	399.7	371.5	347.7	328.2	312.7
30°	642.4	588.2	535.7	491.8	453.6	421.3	389.0	362.1	337.0	316.3	301.8
32.5°	643.6	582.6	525.1	478.6	439.4	407.5	378.2	352.5	326.8	306.4	291.6
35°	638.6	579.5	509.2	455.7	416.5	385.6	359.2	335.4	310.2	290.4	275.4
37.5°	617.0	567.2	492.8	429.9	389.0	360.4	338.8	318.1	295.0	273.6	259.5
40°	595.3	555.1	480.0	414.3	371.5	342.1	322.7	305.8	283.4	263.4	248.3
42.5°	563.0	538.4	467.8	397.9	351.8	323.4	307.0	291.2	271.6	251.3	237.0
45°	503.5	506.8	443.0	371.7	324.4	296.0	280.5	269.5	252.1	235.4	220.7
47.5°	429.1	459.3	413.8	343.9	295.6	268.9	255.4	245.8	234.0	217.6	204.2
50°	380.5	423.5	390.4	325.2	277.5	250.9	237.7	229.8	219.6	206.7	194.0
52.5°	335.7	382.0	362.1	304.4	257.9	233.6	220.6	214.2	206.0	193.9	182.4
55°	273.7	320.7	316.1	273.0	228.5	206.7	196.8	189.6	184.1	175.0	165.8
57.5°	221.4	265.9	268.2	238.0	202.6	181.0	172.5	167.1	163.5	156.6	148.1
60°	188.4	229.3	237.3	214.4	184.1	165.1	156.7	152.3	149.5	144.0	137.5
62.5°	161.1	195.8	204.9	188.5	166.3	148.5	141.9	137.8	135.8	131.1	125.4
65°	123.3	152.1	160.9	151.8	140.1	126.0	120.6	117.0	115.3	112.7	108.4
67.5°	92.7	113.7	123.4	116.9	112.7	103.7	100.4	98.4	96.9	95.1	91.6
70°	74.4	90.0	99.9	98.2	94.8	90.0	87.6	86.3	84.7	83.2	80.1
72.5°	59.8	70.6	79.8	80.7	77.9	77.0	74.8	74.2	73.3	71.5	69.8
75°	39.7	47.1	53.6	56.0	57.2	58.1	57.2	57.0	56.8	55.3	54.3
77.5°	26.0	30.0	34.1	38.3	40.1	41.3	41.7	42.4	41.8	41.1	40.6
80°	20.0	20.9	23.7	27.3	30.2	31.3	32.1	32.4	32.3	32.1	31.3
82.5°	14.5	15.2	16.6	19.2	21.5	23.4	23.9	23.8	24.2	24.4	23.7
85°	7.8	8.0	8.4	8.7	10.0	12.1	12.7	13.1	13.5	13.5	12.3
87.5°	6.3	5.5	5.2	4.6	4.6	4.3	4.8	5.1	5.7	5.5	6.0
90°	19.1	16.1	13.0	10.4	8.1	5.7	3.3	1.1	3.3	5.7	8.1
92.5°	22.3	20.0	17.7	16.9	17.5	18.2	18.8	19.5	18.8	18.2	17.5
95°	27.4	24.8	22.3	25.8	35.3	44.8	54.4	63.9	54.4	44.8	35.3
97.5°	67.3	84.1	100.9	111.4	115.7	119.9	124.3	128.5	124.3	119.9	115.7
100°	107.3	143.7	179.9	195.8	191.1	186.5	181.8	177.2	181.8	186.5	191.1
102.5°	148.4	188.1	227.8	246.0	242.6	239.2	235.9	232.5	235.9	239.2	242.6
105°	271.5	292.4	313.5	322.6	320.1	317.6	315.0	312.4	315.0	317.6	320.1
107.5°	414.2	410.9	407.6	404.9	402.8	400.8	398.8	396.7	398.8	400.8	402.8
110°	467.7	465.1	462.5	460.3	458.4	456.6	454.8	452.9	454.8	456.6	458.4



TEST NUMBER: P332402-930

CATALOG NUMBER: S123RDIW-S340D1320U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	520.5	518.0	515.4	513.2	511.6	509.9	508.3	506.5	508.3	509.9	511.6
115°	597.5	595.4	593.4	591.6	590.2	588.8	587.4	586.0	587.4	588.8	590.2
117.5°	673.4	672.3	671.2	669.8	668.1	666.4	664.7	663.0	664.7	666.4	668.1
120°	721.9	721.2	720.6	719.2	717.1	714.9	712.9	710.8	712.9	714.9	717.1
122.5°	769.4	768.5	767.6	766.3	764.6	762.9	761.2	759.5	761.2	762.9	764.6
125°	836.8	835.8	834.9	833.6	831.7	829.8	827.9	826.1	827.9	829.8	831.7
127.5°	901.9	900.7	899.6	898.1	896.3	894.4	892.5	890.6	892.5	894.4	896.3
130°	941.7	940.7	939.8	938.4	936.5	934.7	932.8	930.9	932.8	934.7	936.5
132.5°	979.7	979.0	978.3	977.0	975.1	973.2	971.3	969.5	971.3	973.2	975.1
135°	1037.1	1036.1	1035.2	1034.0	1032.6	1031.2	1029.8	1028.4	1029.8	1031.2	1032.6
137.5°	1088.0	1087.4	1087.0	1085.8	1084.0	1082.3	1080.5	1078.7	1080.5	1082.3	1084.0
140°	1120.3	1119.7	1118.9	1117.9	1116.5	1115.1	1113.7	1112.3	1113.7	1115.1	1116.5
142.5°	1151.4	1150.6	1150.0	1148.9	1147.5	1146.1	1144.7	1143.3	1144.7	1146.1	1147.5
145°	1195.2	1194.7	1194.3	1193.3	1191.6	1190.0	1188.4	1186.7	1188.4	1190.0	1191.6
147.5°	1233.5	1233.1	1232.7	1231.9	1230.8	1229.7	1228.7	1227.6	1228.7	1229.7	1230.8
150°	1257.0	1256.6	1256.1	1255.6	1254.8	1254.2	1253.4	1252.8	1253.4	1254.2	1254.8
152.5°	1277.6	1277.3	1277.0	1276.7	1276.4	1276.0	1275.7	1275.4	1275.7	1276.0	1276.4
155°	1305.8	1305.5	1305.3	1305.4	1305.9	1306.4	1306.8	1307.3	1306.8	1306.4	1305.9
157.5°	1331.2	1331.5	1331.7	1331.8	1331.9	1332.0	1332.0	1332.0	1332.0	1332.0	1331.9
160°	1345.5	1345.7	1346.0	1346.1	1346.4	1346.6	1346.9	1347.1	1346.9	1346.6	1346.4
162.5°	1358.0	1358.3	1358.5	1358.9	1359.5	1360.2	1360.7	1361.4	1360.7	1360.2	1359.5
165°	1374.8	1375.1	1375.3	1375.7	1376.5	1377.1	1377.9	1378.6	1377.9	1377.1	1376.5
167.5°	1387.8	1387.8	1387.8	1388.2	1389.2	1390.1	1391.1	1392.0	1391.1	1390.1	1389.2
170°	1395.3	1395.3	1395.3	1395.8	1396.8	1397.7	1398.6	1399.5	1398.6	1397.7	1396.8
172.5°	1400.0	1399.8	1399.6	1400.1	1401.2	1402.3	1403.5	1404.6	1403.5	1402.3	1401.2
175°	1406.4	1406.1	1405.9	1406.4	1407.5	1408.8	1409.9	1411.0	1409.9	1408.8	1407.5
177.5°	1409.0	1408.8	1408.7	1409.0	1410.0	1410.9	1411.8	1412.8	1411.8	1410.9	1410.0
180°	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7
2.5°	436.1	434.1	432.8	429.7	427.8	425.7	423.5	424.9	424.7	424.6	424.6
5°	421.5	417.1	413.1	408.0	404.8	400.8	397.8	397.4	398.1	395.5	394.0
7.5°	407.0	401.0	395.3	389.7	383.7	378.9	375.9	374.5	372.6	371.0	369.2
10°	396.8	389.8	384.3	377.2	370.8	365.1	361.5	359.0	357.7	356.4	353.8
12.5°	386.3	379.4	372.4	364.4	358.3	351.7	349.0	346.3	343.7	342.2	338.8
15°	371.0	362.1	354.7	346.3	339.4	333.0	329.2	323.7	322.9	321.0	317.6
17.5°	355.6	345.9	335.7	329.5	321.8	315.0	309.2	307.4	302.0	299.9	296.9
20°	343.4	334.5	326.7	318.5	307.4	301.1	296.5	294.1	289.7	287.0	285.1
22.5°	333.0	323.8	314.9	305.3	296.1	289.0	285.7	281.8	279.5	275.7	273.7
25°	318.0	308.1	297.3	287.0	280.4	275.1	269.7	266.3	262.9	261.1	257.4
27.5°	300.6	290.2	280.1	272.3	264.2	258.9	254.1	251.1	247.0	244.1	242.0
30°	291.0	278.8	270.1	263.1	252.7	247.7	244.1	240.3	237.3	234.2	232.1
32.5°	279.9	268.8	260.6	251.8	243.9	238.4	233.7	230.4	227.8	224.9	222.8
35°	262.5	253.2	244.7	235.9	230.0	224.5	219.0	216.1	213.7	211.0	209.1
37.5°	246.8	238.1	229.9	221.7	214.3	209.9	205.5	203.3	199.9	198.1	196.2
40°	237.1	228.5	219.8	211.8	204.2	200.8	196.8	193.6	190.5	189.1	187.1
42.5°	226.4	217.8	210.5	201.9	195.7	191.0	187.4	183.8	181.6	179.6	178.5
45°	210.7	203.1	195.8	187.3	181.4	177.4	173.3	170.0	168.0	166.6	164.5
47.5°	195.3	187.8	180.4	173.0	167.3	162.7	158.5	156.3	153.5	151.9	150.5
50°	184.3	177.4	169.7	162.8	157.1	152.5	149.1	146.3	143.8	141.7	140.7
52.5°	174.1	166.8	160.0	153.7	147.7	142.5	139.4	136.4	134.5	132.2	131.0
55°	157.3	150.3	144.6	138.3	132.4	128.0	124.3	121.6	119.7	117.0	115.5
57.5°	141.5	135.2	128.4	122.9	116.9	113.2	110.1	106.5	104.1	102.1	100.5
60°	130.9	123.7	117.7	112.7	107.3	102.6	99.7	96.9	94.4	92.3	91.0
62.5°	119.8	113.5	107.9	102.3	97.4	93.3	90.0	87.6	85.4	84.1	82.8
65°	102.7	97.8	92.1	87.6	83.0	80.0	77.3	75.3	73.7	72.7	71.6
67.5°	87.1	82.3	77.4	72.9	69.8	67.5	65.8	64.0	63.2	62.0	61.2
70°	77.0	72.0	67.6	64.2	61.1	59.4	58.3	57.0	56.3	54.7	54.0
72.5°	65.9	62.3	59.1	56.3	53.9	52.3	50.9	49.2	48.0	46.3	45.6
75°	51.9	48.6	46.1	44.3	42.7	40.7	38.6	36.9	36.3	35.7	35.5
77.5°	38.4	36.4	34.6	32.9	31.1	29.6	29.1	28.7	28.6	28.3	28.3
80°	30.2	28.3	27.0	25.1	24.0	24.0	24.0	23.6	23.7	23.7	23.7
82.5°	22.4	20.7	20.0	19.3	19.1	19.2	19.2	19.3	19.2	19.5	19.3
85°	11.6	11.7	12.1	12.0	12.1	12.1	12.6	12.3	12.6	12.1	12.6
87.5°	6.4	7.3	8.1	8.8	9.6	10.0	10.4	10.6	10.9	11.1	11.3
90°	10.4	13.0	16.1	19.1	22.1	25.2	26.1	27.0	28.0	28.9	29.6
92.5°	16.9	17.7	20.0	22.3	24.5	26.8	28.3	29.8	31.3	32.8	33.7
95°	25.8	22.3	24.8	27.4	29.9	32.5	34.2	35.8	37.4	39.1	39.9
97.5°	111.4	100.9	84.1	67.3	50.5	33.8	35.6	37.5	39.4	41.2	42.2
100°	195.8	179.9	143.7	107.3	70.9	34.6	36.4	38.3	40.2	42.1	43.1
102.5°	246.0	227.8	188.1	148.4	108.7	69.0	63.2	57.4	51.6	45.9	43.2
105°	322.6	313.5	292.4	271.5	250.5	229.6	188.3	147.1	105.9	64.7	44.3
107.5°	404.9	407.6	410.9	414.2	417.5	420.8	390.5	360.4	330.1	299.9	269.2
110°	460.3	462.5	465.1	467.7	470.3	472.8	465.1	457.4	449.7	442.1	421.5



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	513.2	515.4	518.0	520.5	523.1	525.6	525.8	525.9	526.0	526.2	522.8
115°	591.6	593.4	595.4	597.5	599.7	601.8	604.1	606.4	608.7	611.1	612.7
117.5°	669.8	671.2	672.3	673.4	674.5	675.6	677.4	679.3	681.1	683.0	684.0
120°	719.2	720.6	721.2	721.9	722.7	723.3	725.2	727.1	729.0	730.8	731.7
122.5°	766.3	767.6	768.5	769.4	770.3	771.2	772.5	773.8	775.1	776.4	777.1
125°	833.6	834.9	835.8	836.8	837.7	838.7	839.1	839.6	840.1	840.5	841.0
127.5°	898.1	899.6	900.7	901.9	902.9	904.1	904.8	905.6	906.3	907.1	907.2
130°	938.4	939.8	940.7	941.7	942.6	943.5	944.4	945.3	946.3	947.2	947.5
132.5°	977.0	978.3	979.0	979.7	980.5	981.2	982.2	983.1	984.1	985.0	985.1
135°	1034.0	1035.2	1036.1	1037.1	1038.0	1038.9	1039.6	1040.3	1041.0	1041.7	1041.7
137.5°	1085.8	1087.0	1087.4	1088.0	1088.5	1089.0	1090.1	1091.3	1092.3	1093.5	1093.8
140°	1117.9	1118.9	1119.7	1120.3	1121.0	1121.7	1122.7	1123.6	1124.5	1125.4	1125.7
142.5°	1148.9	1150.0	1150.6	1151.4	1152.0	1152.8	1153.5	1154.2	1155.0	1155.8	1155.8
145°	1193.3	1194.3	1194.7	1195.2	1195.7	1196.1	1196.6	1197.1	1197.5	1198.0	1198.2
147.5°	1231.9	1232.7	1233.1	1233.5	1234.0	1234.5	1235.0	1235.4	1235.9	1236.4	1236.1
150°	1255.6	1256.1	1256.6	1257.0	1257.5	1258.0	1258.5	1258.9	1259.4	1259.9	1259.7
152.5°	1276.7	1277.0	1277.3	1277.6	1277.8	1278.1	1279.0	1279.8	1280.7	1281.5	1281.4
155°	1305.4	1305.3	1305.5	1305.8	1306.0	1306.2	1307.4	1308.6	1309.7	1310.9	1310.8
157.5°	1331.8	1331.7	1331.5	1331.2	1331.0	1330.7	1332.1	1333.6	1335.0	1336.4	1336.1
160°	1346.1	1346.0	1345.7	1345.5	1345.2	1345.0	1346.4	1347.8	1349.2	1350.6	1350.5
162.5°	1358.9	1358.5	1358.3	1358.0	1357.8	1357.6	1359.2	1360.7	1362.4	1363.9	1364.0
165°	1375.7	1375.3	1375.1	1374.8	1374.6	1374.4	1376.2	1378.1	1380.0	1381.9	1381.9
167.5°	1388.2	1387.8	1387.8	1387.8	1387.8	1387.8	1389.7	1391.6	1393.3	1395.2	1395.2
170°	1395.8	1395.3	1395.3	1395.3	1395.3	1395.3	1397.2	1399.1	1400.9	1402.8	1402.8
172.5°	1400.1	1399.6	1399.8	1400.0	1400.2	1400.4	1402.2	1404.1	1406.0	1407.9	1407.7
175°	1406.4	1405.9	1406.1	1406.4	1406.6	1406.9	1408.5	1410.1	1411.8	1413.4	1413.2
177.5°	1409.0	1408.7	1408.8	1409.0	1409.2	1409.4	1410.9	1412.3	1413.9	1415.4	1415.2
180°	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0



TEST NUMBER: P332402-930

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7
2.5°	422.7	422.6	422.7	422.2	422.7	422.6	422.7	424.6	424.6	424.7	424.9
5°	393.4	393.2	392.6	390.9	392.6	393.2	393.4	394.0	395.5	398.1	397.4
7.5°	367.7	367.5	365.8	365.8	365.8	367.5	367.7	369.2	371.0	372.6	374.5
10°	352.5	352.7	350.4	349.1	350.4	352.7	352.5	353.8	356.4	357.7	359.0
12.5°	337.8	337.0	335.1	333.6	335.1	337.0	337.8	338.8	342.2	343.7	346.3
15°	318.4	316.4	311.9	312.3	311.9	316.4	318.4	317.6	321.0	322.9	323.7
17.5°	295.5	294.1	294.0	291.3	294.0	294.1	295.5	296.9	299.9	302.0	307.4
20°	282.1	281.1	281.5	278.8	281.5	281.1	282.1	285.1	287.0	289.7	294.1
22.5°	271.6	270.6	269.0	268.2	269.0	270.6	271.6	273.7	275.7	279.5	281.8
25°	256.2	254.7	253.2	254.1	253.2	254.7	256.2	257.4	261.1	262.9	266.3
27.5°	240.9	239.8	238.2	238.1	238.2	239.8	240.9	242.0	244.1	247.0	251.1
30°	231.1	230.0	229.3	228.3	229.3	230.0	231.1	232.1	234.2	237.3	240.3
32.5°	221.3	221.0	219.7	219.5	219.7	221.0	221.3	222.8	224.9	227.8	230.4
35°	208.4	207.2	206.8	207.0	206.8	207.2	208.4	209.1	211.0	213.7	216.1
37.5°	196.1	194.6	193.9	193.2	193.9	194.6	196.1	196.2	198.1	199.9	203.3
40°	187.3	185.8	185.4	185.0	185.4	185.8	187.3	187.1	189.1	190.5	193.6
42.5°	177.4	176.8	176.6	175.9	176.6	176.8	177.4	178.5	179.6	181.6	183.8
45°	164.0	163.7	162.6	163.0	162.6	163.7	164.0	164.5	166.6	168.0	170.0
47.5°	149.7	148.9	148.1	148.6	148.1	148.9	149.7	150.5	151.9	153.5	156.3
50°	140.0	139.6	137.9	138.3	137.9	139.6	140.0	140.7	141.7	143.8	146.3
52.5°	130.3	128.8	128.2	127.9	128.2	128.8	130.3	131.0	132.2	134.5	136.4
55°	114.1	112.4	111.7	111.3	111.7	112.4	114.1	115.5	117.0	119.7	121.6
57.5°	98.3	97.9	97.3	97.7	97.3	97.9	98.3	100.5	102.1	104.1	106.5
60°	89.1	89.1	89.1	88.9	89.1	89.1	89.1	91.0	92.3	94.4	96.9
62.5°	81.9	81.4	81.4	81.6	81.4	81.4	81.9	82.8	84.1	85.4	87.6
65°	71.0	70.8	70.1	69.9	70.1	70.8	71.0	71.6	72.7	73.7	75.3
67.5°	60.7	60.1	59.8	59.6	59.8	60.1	60.7	61.2	62.0	63.2	64.0
70°	53.0	52.6	51.4	51.7	51.4	52.6	53.0	54.0	54.7	56.3	57.0
72.5°	44.7	44.3	44.0	43.8	44.0	44.3	44.7	45.6	46.3	48.0	49.2
75°	35.3	35.1	35.0	35.7	35.0	35.1	35.3	35.5	35.7	36.3	36.9
77.5°	28.3	28.3	28.5	28.1	28.5	28.3	28.3	28.3	28.3	28.6	28.7
80°	23.7	23.7	23.6	23.6	23.6	23.7	23.7	23.7	23.7	23.7	23.6
82.5°	19.0	19.2	19.3	19.0	19.3	19.2	19.0	19.3	19.5	19.2	19.3
85°	12.6	12.3	12.7	12.6	12.7	12.3	12.6	12.6	12.1	12.6	12.3
87.5°	11.7	11.4	11.5	11.7	11.5	11.4	11.7	11.3	11.1	10.9	10.6
90°	30.1	30.5	31.0	31.5	31.0	30.5	30.1	29.6	28.9	28.0	27.0
92.5°	34.0	34.2	34.5	34.8	34.5	34.2	34.0	33.7	32.8	31.3	29.8
95°	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.1	37.4	35.8
97.5°	42.5	42.7	43.0	43.2	43.0	42.7	42.5	42.2	41.2	39.4	37.5
100°	43.3	43.5	43.8	44.0	43.8	43.5	43.3	43.1	42.1	40.2	38.3
102.5°	43.6	44.0	44.4	44.8	44.4	44.0	43.6	43.2	45.9	51.6	57.4
105°	44.8	45.2	45.7	46.1	45.7	45.2	44.8	44.3	64.7	105.9	147.1
107.5°	238.1	207.0	175.9	144.9	175.9	207.0	238.1	269.2	299.9	330.1	360.4
110°	388.2	354.9	321.6	288.3	321.6	354.9	388.2	421.5	442.1	449.7	457.4



TEST NUMBER: P332402-930

CATALOG NUMBER: S123RDIW-S340D1320U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	515.7	508.7	501.7	494.6	501.7	508.7	515.7	522.8	526.2	526.0	525.9
115°	613.6	614.6	615.5	616.4	615.5	614.6	613.6	612.7	611.1	608.7	606.4
117.5°	684.2	684.4	684.6	684.8	684.6	684.4	684.2	684.0	683.0	681.1	679.3
120°	731.7	731.7	731.7	731.7	731.7	731.7	731.7	731.7	730.8	729.0	727.1
122.5°	777.3	777.5	777.7	777.9	777.7	777.5	777.3	777.1	776.4	775.1	773.8
125°	841.5	842.0	842.4	842.9	842.4	842.0	841.5	841.0	840.5	840.1	839.6
127.5°	906.8	906.3	905.8	905.3	905.8	906.3	906.8	907.2	907.1	906.3	905.6
130°	947.0	946.6	946.1	945.6	946.1	946.6	947.0	947.5	947.2	946.3	945.3
132.5°	984.5	983.8	983.2	982.5	983.2	983.8	984.5	985.1	985.0	984.1	983.1
135°	1041.0	1040.3	1039.6	1038.9	1039.6	1040.3	1041.0	1041.7	1041.7	1041.0	1040.3
137.5°	1093.3	1092.9	1092.4	1091.9	1092.4	1092.9	1093.3	1093.8	1093.5	1092.3	1091.3
140°	1125.2	1124.7	1124.3	1123.8	1124.3	1124.7	1125.2	1125.7	1125.4	1124.5	1123.6
142.5°	1155.1	1154.5	1153.8	1153.2	1153.8	1154.5	1155.1	1155.8	1155.8	1155.0	1154.2
145°	1198.2	1198.2	1198.2	1198.2	1198.2	1198.2	1198.2	1198.2	1198.0	1197.5	1197.1
147.5°	1235.0	1234.0	1232.9	1231.8	1232.9	1234.0	1235.0	1236.1	1236.4	1235.9	1235.4
150°	1259.1	1258.3	1257.7	1256.9	1257.7	1258.3	1259.1	1259.7	1259.9	1259.4	1258.9
152.5°	1280.3	1279.2	1278.1	1277.1	1278.1	1279.2	1280.3	1281.4	1281.5	1280.7	1279.8
155°	1309.4	1308.0	1306.6	1305.2	1306.6	1308.0	1309.4	1310.8	1310.9	1309.7	1308.6
157.5°	1334.3	1332.5	1330.6	1328.9	1330.6	1332.5	1334.3	1336.1	1336.4	1335.0	1333.6
160°	1348.8	1347.2	1345.6	1343.9	1345.6	1347.2	1348.8	1350.5	1350.6	1349.2	1347.8
162.5°	1362.5	1361.1	1359.7	1358.2	1359.7	1361.1	1362.5	1364.0	1363.9	1362.4	1360.7
165°	1380.3	1378.7	1377.0	1375.4	1377.0	1378.7	1380.3	1381.9	1381.9	1380.0	1378.1
167.5°	1393.3	1391.6	1389.7	1387.8	1389.7	1391.6	1393.3	1395.2	1395.2	1393.3	1391.6
170°	1400.9	1399.1	1397.2	1395.3	1397.2	1399.1	1400.9	1402.8	1402.8	1400.9	1399.1
172.5°	1405.7	1403.6	1401.6	1399.5	1401.6	1403.6	1405.7	1407.7	1407.9	1406.0	1404.1
175°	1411.4	1409.6	1407.7	1405.8	1407.7	1409.6	1411.4	1413.2	1413.4	1411.8	1410.1
177.5°	1413.3	1411.4	1409.6	1407.7	1409.6	1411.4	1413.3	1415.2	1415.4	1413.9	1412.3
180°	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0



TEST NUMBER: P332402-930

CATALOG NUMBER: S123RDIW-S340D1320U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7
2.5°	423.5	425.7	427.8	429.7	432.8	434.1	436.1	436.9	439.1	442.5	445.2
5°	397.8	400.8	404.8	408.0	413.1	417.1	421.5	425.7	430.6	437.7	443.9
7.5°	375.9	378.9	383.7	389.7	395.3	401.0	407.0	412.7	419.7	429.8	439.8
10°	361.5	365.1	370.8	377.2	384.3	389.8	396.8	404.0	412.8	424.4	436.3
12.5°	349.0	351.7	358.3	364.4	372.4	379.4	386.3	394.8	404.7	417.0	431.5
15°	329.2	333.0	339.4	346.3	354.7	362.1	371.0	381.2	390.9	406.1	423.5
17.5°	309.2	315.0	321.8	329.5	335.7	345.9	355.6	366.1	378.1	394.1	413.4
20°	296.5	301.1	307.4	318.5	326.7	334.5	343.4	356.5	367.5	385.8	405.7
22.5°	285.7	289.0	296.1	305.3	314.9	323.8	333.0	345.4	359.1	376.3	397.9
25°	269.7	275.1	280.4	287.0	297.3	308.1	318.0	328.6	343.1	361.5	384.8
27.5°	254.1	258.9	264.2	272.3	280.1	290.2	300.6	312.7	328.2	347.7	371.5
30°	244.1	247.7	252.7	263.1	270.1	278.8	291.0	301.8	316.3	337.0	362.1
32.5°	233.7	238.4	243.9	251.8	260.6	268.8	279.9	291.6	306.4	326.8	352.5
35°	219.0	224.5	230.0	235.9	244.7	253.2	262.5	275.4	290.4	310.2	335.4
37.5°	205.5	209.9	214.3	221.7	229.9	238.1	246.8	259.5	273.6	295.0	318.1
40°	196.8	200.8	204.2	211.8	219.8	228.5	237.1	248.3	263.4	283.4	305.8
42.5°	187.4	191.0	195.7	201.9	210.5	217.8	226.4	237.0	251.3	271.6	291.2
45°	173.3	177.4	181.4	187.3	195.8	203.1	210.7	220.7	235.4	252.1	269.5
47.5°	158.5	162.7	167.3	173.0	180.4	187.8	195.3	204.2	217.6	234.0	245.8
50°	149.1	152.5	157.1	162.8	169.7	177.4	184.3	194.0	206.7	219.6	229.8
52.5°	139.4	142.5	147.7	153.7	160.0	166.8	174.1	182.4	193.9	206.0	214.2
55°	124.3	128.0	132.4	138.3	144.6	150.3	157.3	165.8	175.0	184.1	189.6
57.5°	110.1	113.2	116.9	122.9	128.4	135.2	141.5	148.1	156.6	163.5	167.1
60°	99.7	102.6	107.3	112.7	117.7	123.7	130.9	137.5	144.0	149.5	152.3
62.5°	90.0	93.3	97.4	102.3	107.9	113.5	119.8	125.4	131.1	135.8	137.8
65°	77.3	80.0	83.0	87.6	92.1	97.8	102.7	108.4	112.7	115.3	117.0
67.5°	65.8	67.5	69.8	72.9	77.4	82.3	87.1	91.6	95.1	96.9	98.4
70°	58.3	59.4	61.1	64.2	67.6	72.0	77.0	80.1	83.2	84.7	86.3
72.5°	50.9	52.3	53.9	56.3	59.1	62.3	65.9	69.8	71.5	73.3	74.2
75°	38.6	40.7	42.7	44.3	46.1	48.6	51.9	54.3	55.3	56.8	57.0
77.5°	29.1	29.6	31.1	32.9	34.6	36.4	38.4	40.6	41.1	41.8	42.4
80°	24.0	24.0	24.0	25.1	27.0	28.3	30.2	31.3	32.1	32.3	32.4
82.5°	19.2	19.2	19.1	19.3	20.0	20.7	22.4	23.7	24.4	24.2	23.8
85°	12.6	12.1	12.1	12.0	12.1	11.7	11.6	12.3	13.5	13.5	13.1
87.5°	10.4	10.0	9.6	8.8	8.1	7.3	6.4	6.0	5.5	5.7	5.1
90°	26.1	25.2	22.1	19.1	16.1	13.0	10.4	8.1	5.7	3.3	1.1
92.5°	28.3	26.8	24.5	22.3	20.0	17.7	16.9	17.5	18.2	18.8	19.5
95°	34.2	32.5	29.9	27.4	24.8	22.3	25.8	35.3	44.8	54.4	63.9
97.5°	35.6	33.8	50.5	67.3	84.1	100.9	111.4	115.7	119.9	124.3	128.5
100°	36.4	34.6	70.9	107.3	143.7	179.9	195.8	191.1	186.5	181.8	177.2
102.5°	63.2	69.0	108.7	148.4	188.1	227.8	246.0	242.6	239.2	235.9	232.5
105°	188.3	229.6	250.5	271.5	292.4	313.5	322.6	320.1	317.6	315.0	312.4
107.5°	390.5	420.8	417.5	414.2	410.9	407.6	404.9	402.8	400.8	398.8	396.7
110°	465.1	472.8	470.3	467.7	465.1	462.5	460.3	458.4	456.6	454.8	452.9



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	525.8	525.6	523.1	520.5	518.0	515.4	513.2	511.6	509.9	508.3	506.5
115°	604.1	601.8	599.7	597.5	595.4	593.4	591.6	590.2	588.8	587.4	586.0
117.5°	677.4	675.6	674.5	673.4	672.3	671.2	669.8	668.1	666.4	664.7	663.0
120°	725.2	723.3	722.7	721.9	721.2	720.6	719.2	717.1	714.9	712.9	710.8
122.5°	772.5	771.2	770.3	769.4	768.5	767.6	766.3	764.6	762.9	761.2	759.5
125°	839.1	838.7	837.7	836.8	835.8	834.9	833.6	831.7	829.8	827.9	826.1
127.5°	904.8	904.1	902.9	901.9	900.7	899.6	898.1	896.3	894.4	892.5	890.6
130°	944.4	943.5	942.6	941.7	940.7	939.8	938.4	936.5	934.7	932.8	930.9
132.5°	982.2	981.2	980.5	979.7	979.0	978.3	977.0	975.1	973.2	971.3	969.5
135°	1039.6	1038.9	1038.0	1037.1	1036.1	1035.2	1034.0	1032.6	1031.2	1029.8	1028.4
137.5°	1090.1	1089.0	1088.5	1088.0	1087.4	1087.0	1085.8	1084.0	1082.3	1080.5	1078.7
140°	1122.7	1121.7	1121.0	1120.3	1119.7	1118.9	1117.9	1116.5	1115.1	1113.7	1112.3
142.5°	1153.5	1152.8	1152.0	1151.4	1150.6	1150.0	1148.9	1147.5	1146.1	1144.7	1143.3
145°	1196.6	1196.1	1195.7	1195.2	1194.7	1194.3	1193.3	1191.6	1190.0	1188.4	1186.7
147.5°	1235.0	1234.5	1234.0	1233.5	1233.1	1232.7	1231.9	1230.8	1229.7	1228.7	1227.6
150°	1258.5	1258.0	1257.5	1257.0	1256.6	1256.1	1255.6	1254.8	1254.2	1253.4	1252.8
152.5°	1279.0	1278.1	1277.8	1277.6	1277.3	1277.0	1276.7	1276.4	1276.0	1275.7	1275.4
155°	1307.4	1306.2	1306.0	1305.8	1305.5	1305.3	1305.4	1305.9	1306.4	1306.8	1307.3
157.5°	1332.1	1330.7	1331.0	1331.2	1331.5	1331.7	1331.8	1331.9	1332.0	1332.0	1332.0
160°	1346.4	1345.0	1345.2	1345.5	1345.7	1346.0	1346.1	1346.4	1346.6	1346.9	1347.1
162.5°	1359.2	1357.6	1357.8	1358.0	1358.3	1358.5	1358.9	1359.5	1360.2	1360.7	1361.4
165°	1376.2	1374.4	1374.6	1374.8	1375.1	1375.3	1375.7	1376.5	1377.1	1377.9	1378.6
167.5°	1389.7	1387.8	1387.8	1387.8	1387.8	1387.8	1388.2	1389.2	1390.1	1391.1	1392.0
170°	1397.2	1395.3	1395.3	1395.3	1395.3	1395.3	1395.8	1396.8	1397.7	1398.6	1399.5
172.5°	1402.2	1400.4	1400.2	1400.0	1399.8	1399.6	1400.1	1401.2	1402.3	1403.5	1404.6
175°	1408.5	1406.9	1406.6	1406.4	1406.1	1405.9	1406.4	1407.5	1408.8	1409.9	1411.0
177.5°	1410.9	1409.4	1409.2	1409.0	1408.8	1408.7	1409.0	1410.0	1410.9	1411.8	1412.8
180°	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7
2.5°	446.1	447.8	450.0	453.1	455.6	457.7	458.1	458.8	460.3	462.8	464.8
5°	449.1	453.4	460.4	467.2	474.7	480.8	486.5	490.5	494.2	502.2	508.7
7.5°	448.1	457.9	468.9	481.1	493.6	505.6	516.7	526.8	536.7	548.4	561.6
10°	447.5	458.9	473.8	489.5	506.8	523.7	540.1	552.8	567.5	580.9	597.8
12.5°	444.7	461.1	478.7	498.9	520.2	539.6	561.2	578.7	595.7	614.9	634.5
15°	440.8	460.8	483.2	510.0	542.3	565.8	587.9	618.5	639.4	660.2	688.4
17.5°	434.0	458.4	486.3	521.1	548.0	579.8	612.9	637.1	665.2	694.6	720.1
20°	428.5	456.8	488.2	522.4	556.8	591.1	623.2	652.1	681.2	715.2	736.1
22.5°	423.1	451.0	483.6	519.9	556.8	593.1	629.4	663.3	696.0	730.3	757.0
25°	411.4	444.7	480.0	517.1	553.5	593.4	636.7	674.5	714.9	750.3	775.6
27.5°	399.7	430.2	465.3	502.9	543.4	590.5	641.5	684.4	725.0	750.3	758.2
30°	389.0	421.3	453.6	491.8	535.7	588.2	642.4	691.6	724.8	735.9	727.7
32.5°	378.2	407.5	439.4	478.6	525.1	582.6	643.6	687.4	707.4	699.0	665.7
35°	359.2	385.6	416.5	455.7	509.2	579.5	638.6	668.2	663.3	615.8	553.1
37.5°	338.8	360.4	389.0	429.9	492.8	567.2	617.0	621.4	578.6	505.7	433.3
40°	322.7	342.1	371.5	414.3	480.0	555.1	595.3	577.6	511.4	430.2	369.8
42.5°	307.0	323.4	351.8	397.9	467.8	538.4	563.0	524.5	448.0	371.3	316.3
45°	280.5	296.0	324.4	371.7	443.0	506.8	503.5	436.7	360.1	298.4	252.8
47.5°	255.4	268.9	295.6	343.9	413.8	459.3	429.1	357.9	293.0	243.4	210.9
50°	237.7	250.9	277.5	325.2	390.4	423.5	380.5	311.9	252.4	211.4	185.6
52.5°	220.6	233.6	257.9	304.4	362.1	382.0	335.7	272.1	222.5	187.1	164.9
55°	196.8	206.7	228.5	273.0	316.1	320.7	273.7	220.5	179.7	155.0	139.8
57.5°	172.5	181.0	202.6	238.0	268.2	265.9	221.4	175.4	147.9	129.6	118.5
60°	156.7	165.1	184.1	214.4	237.3	229.3	188.4	151.4	127.8	114.4	105.6
62.5°	141.9	148.5	166.3	188.5	204.9	195.8	161.1	130.4	111.7	100.4	93.4
65°	120.6	126.0	140.1	151.8	160.9	152.1	123.3	102.0	88.5	80.6	75.8
67.5°	100.4	103.7	112.7	116.9	123.4	113.7	92.7	78.4	70.8	64.1	60.7
70°	87.6	90.0	94.8	98.2	99.9	90.0	74.4	64.0	57.6	52.8	50.7
72.5°	74.8	77.0	77.9	80.7	79.8	70.6	59.8	51.5	46.9	43.7	41.0
75°	57.2	58.1	57.2	56.0	53.6	47.1	39.7	35.5	32.1	30.6	29.6
77.5°	41.7	41.3	40.1	38.3	34.1	30.0	26.0	24.6	23.2	22.3	22.0
80°	32.1	31.3	30.2	27.3	23.7	20.9	20.0	19.0	18.4	17.4	17.3
82.5°	23.9	23.4	21.5	19.2	16.6	15.2	14.5	14.1	13.5	13.0	13.0
85°	12.7	12.1	10.0	8.7	8.4	8.0	7.8	7.8	7.0	6.8	6.8
87.5°	4.8	4.3	4.6	4.6	5.2	5.5	6.3	6.5	7.0	7.3	7.3
90°	3.3	5.7	8.1	10.4	13.0	16.1	19.1	22.1	25.2	26.1	27.0
92.5°	18.8	18.2	17.5	16.9	17.7	20.0	22.3	24.5	26.8	28.3	29.8
95°	54.4	44.8	35.3	25.8	22.3	24.8	27.4	29.9	32.5	34.2	35.8
97.5°	124.3	119.9	115.7	111.4	100.9	84.1	67.3	50.5	33.8	35.6	37.5
100°	181.8	186.5	191.1	195.8	179.9	143.7	107.3	70.9	34.6	36.4	38.3
102.5°	235.9	239.2	242.6	246.0	227.8	188.1	148.4	108.7	69.0	63.2	57.4
105°	315.0	317.6	320.1	322.6	313.5	292.4	271.5	250.5	229.6	188.3	147.1
107.5°	398.8	400.8	402.8	404.9	407.6	410.9	414.2	417.5	420.8	390.5	360.4
110°	454.8	456.6	458.4	460.3	462.5	465.1	467.7	470.3	472.8	465.1	457.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	508.3	509.9	511.6	513.2	515.4	518.0	520.5	523.1	525.6	525.8	525.9
115°	587.4	588.8	590.2	591.6	593.4	595.4	597.5	599.7	601.8	604.1	606.4
117.5°	664.7	666.4	668.1	669.8	671.2	672.3	673.4	674.5	675.6	677.4	679.3
120°	712.9	714.9	717.1	719.2	720.6	721.2	721.9	722.7	723.3	725.2	727.1
122.5°	761.2	762.9	764.6	766.3	767.6	768.5	769.4	770.3	771.2	772.5	773.8
125°	827.9	829.8	831.7	833.6	834.9	835.8	836.8	837.7	838.7	839.1	839.6
127.5°	892.5	894.4	896.3	898.1	899.6	900.7	901.9	902.9	904.1	904.8	905.6
130°	932.8	934.7	936.5	938.4	939.8	940.7	941.7	942.6	943.5	944.4	945.3
132.5°	971.3	973.2	975.1	977.0	978.3	979.0	979.7	980.5	981.2	982.2	983.1
135°	1029.8	1031.2	1032.6	1034.0	1035.2	1036.1	1037.1	1038.0	1038.9	1039.6	1040.3
137.5°	1080.5	1082.3	1084.0	1085.8	1087.0	1087.4	1088.0	1088.5	1089.0	1090.1	1091.3
140°	1113.7	1115.1	1116.5	1117.9	1118.9	1119.7	1120.3	1121.0	1121.7	1122.7	1123.6
142.5°	1144.7	1146.1	1147.5	1148.9	1150.0	1150.6	1151.4	1152.0	1152.8	1153.5	1154.2
145°	1188.4	1190.0	1191.6	1193.3	1194.3	1194.7	1195.2	1195.7	1196.1	1196.6	1197.1
147.5°	1228.7	1229.7	1230.8	1231.9	1232.7	1233.1	1233.5	1234.0	1234.5	1235.0	1235.4
150°	1253.4	1254.2	1254.8	1255.6	1256.1	1256.6	1257.0	1257.5	1258.0	1258.5	1258.9
152.5°	1275.7	1276.0	1276.4	1276.7	1277.0	1277.3	1277.6	1277.8	1278.1	1279.0	1279.8
155°	1306.8	1306.4	1305.9	1305.4	1305.3	1305.5	1305.8	1306.0	1306.2	1307.4	1308.6
157.5°	1332.0	1332.0	1331.9	1331.8	1331.7	1331.5	1331.2	1331.0	1330.7	1332.1	1333.6
160°	1346.9	1346.6	1346.4	1346.1	1346.0	1345.7	1345.5	1345.2	1345.0	1346.4	1347.8
162.5°	1360.7	1360.2	1359.5	1358.9	1358.5	1358.3	1358.0	1357.8	1357.6	1359.2	1360.7
165°	1377.9	1377.1	1376.5	1375.7	1375.3	1375.1	1374.8	1374.6	1374.4	1376.2	1378.1
167.5°	1391.1	1390.1	1389.2	1388.2	1387.8	1387.8	1387.8	1387.8	1387.8	1389.7	1391.6
170°	1398.6	1397.7	1396.8	1395.8	1395.3	1395.3	1395.3	1395.3	1395.3	1397.2	1399.1
172.5°	1403.5	1402.3	1401.2	1400.1	1399.6	1399.8	1400.0	1400.2	1400.4	1402.2	1404.1
175°	1409.9	1408.8	1407.5	1406.4	1405.9	1406.1	1406.4	1406.6	1406.9	1408.5	1410.1
177.5°	1411.8	1410.9	1410.0	1409.0	1408.7	1408.8	1409.0	1409.2	1409.4	1410.9	1412.3
180°	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	443.7	443.7	443.7	443.7	443.7	443.7	443.7
2.5°	468.1	468.1	468.6	470.9	471.2	473.2	472.6
5°	514.4	518.0	519.3	525.1	528.4	529.9	526.9
7.5°	571.0	581.2	586.0	592.1	597.3	598.9	594.8
10°	612.4	623.1	631.9	637.5	642.6	646.0	650.4
12.5°	652.3	665.4	673.9	681.7	687.0	691.3	692.0
15°	695.8	715.5	730.5	741.6	747.1	749.9	748.8
17.5°	739.6	757.9	768.6	779.8	787.4	787.8	788.1
20°	764.3	782.2	794.6	802.9	811.5	811.1	813.0
22.5°	780.9	795.0	804.5	810.5	813.4	812.0	812.4
25°	788.6	792.9	791.2	781.5	778.9	770.1	771.6
27.5°	748.7	729.0	708.5	682.2	661.5	644.9	645.7
30°	694.5	659.5	619.6	586.2	556.2	547.8	529.9
32.5°	618.6	566.2	519.5	488.3	462.6	455.6	440.0
35°	490.1	439.1	391.1	362.2	350.8	334.8	334.7
37.5°	380.9	336.1	310.7	289.0	277.7	268.0	267.1
40°	320.4	285.5	266.3	250.7	239.5	232.3	230.6
42.5°	278.2	250.0	232.0	222.3	213.7	209.9	207.2
45°	227.1	208.1	195.7	186.9	183.0	180.1	178.6
47.5°	190.0	177.3	168.8	162.9	159.7	156.7	157.5
50°	169.8	159.4	153.1	147.6	145.1	143.0	143.2
52.5°	153.5	144.1	139.1	135.1	132.1	130.5	129.9
55°	130.3	124.4	119.3	116.4	114.7	112.7	112.1
57.5°	111.1	106.6	102.4	99.2	98.7	96.8	97.0
60°	98.4	94.6	91.2	89.4	88.1	86.4	87.0
62.5°	87.9	84.7	81.6	80.2	78.8	77.6	77.9
65°	72.0	69.0	67.0	66.3	65.7	65.1	64.6
67.5°	57.4	55.5	54.3	52.7	51.5	51.4	50.8
70°	48.3	45.7	43.7	41.6	41.0	40.8	41.0
72.5°	38.6	37.1	36.5	35.5	35.4	34.9	35.2
75°	29.0	28.5	28.1	27.3	27.3	27.3	27.3
77.5°	21.4	21.1	20.9	20.7	20.5	20.2	20.2
80°	16.7	16.6	16.1	16.1	16.0	16.1	16.0
82.5°	12.6	12.6	12.2	12.2	12.0	11.9	12.0
85°	6.4	6.3	6.7	6.3	6.4	6.1	6.4
87.5°	7.4	7.6	7.6	7.7	7.7	8.0	7.8
90°	28.0	28.9	29.6	30.1	30.5	31.0	31.5
92.5°	31.3	32.8	33.7	34.0	34.2	34.5	34.8
95°	37.4	39.1	39.9	39.9	39.9	39.9	39.9
97.5°	39.4	41.2	42.2	42.5	42.7	43.0	43.2
100°	40.2	42.1	43.1	43.3	43.5	43.8	44.0
102.5°	51.6	45.9	43.2	43.6	44.0	44.4	44.8
105°	105.9	64.7	44.3	44.8	45.2	45.7	46.1
107.5°	330.1	299.9	269.2	238.1	207.0	175.9	144.9
110°	449.7	442.1	421.5	388.2	354.9	321.6	288.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	526.0	526.2	522.8	515.7	508.7	501.7	494.6
115°	608.7	611.1	612.7	613.6	614.6	615.5	616.4
117.5°	681.1	683.0	684.0	684.2	684.4	684.6	684.8
120°	729.0	730.8	731.7	731.7	731.7	731.7	731.7
122.5°	775.1	776.4	777.1	777.3	777.5	777.7	777.9
125°	840.1	840.5	841.0	841.5	842.0	842.4	842.9
127.5°	906.3	907.1	907.2	906.8	906.3	905.8	905.3
130°	946.3	947.2	947.5	947.0	946.6	946.1	945.6
132.5°	984.1	985.0	985.1	984.5	983.8	983.2	982.5
135°	1041.0	1041.7	1041.7	1041.0	1040.3	1039.6	1038.9
137.5°	1092.3	1093.5	1093.8	1093.3	1092.9	1092.4	1091.9
140°	1124.5	1125.4	1125.7	1125.2	1124.7	1124.3	1123.8
142.5°	1155.0	1155.8	1155.8	1155.1	1154.5	1153.8	1153.2
145°	1197.5	1198.0	1198.2	1198.2	1198.2	1198.2	1198.2
147.5°	1235.9	1236.4	1236.1	1235.0	1234.0	1232.9	1231.8
150°	1259.4	1259.9	1259.7	1259.1	1258.3	1257.7	1256.9
152.5°	1280.7	1281.5	1281.4	1280.3	1279.2	1278.1	1277.1
155°	1309.7	1310.9	1310.8	1309.4	1308.0	1306.6	1305.2
157.5°	1335.0	1336.4	1336.1	1334.3	1332.5	1330.6	1328.9
160°	1349.2	1350.6	1350.5	1348.8	1347.2	1345.6	1343.9
162.5°	1362.4	1363.9	1364.0	1362.5	1361.1	1359.7	1358.2
165°	1380.0	1381.9	1381.9	1380.3	1378.7	1377.0	1375.4
167.5°	1393.3	1395.2	1395.2	1393.3	1391.6	1389.7	1387.8
170°	1400.9	1402.8	1402.8	1400.9	1399.1	1397.2	1395.3
172.5°	1406.0	1407.9	1407.7	1405.7	1403.6	1401.6	1399.5
175°	1411.8	1413.4	1413.2	1411.4	1409.6	1407.7	1405.8
177.5°	1413.9	1415.4	1415.2	1413.3	1411.4	1409.6	1407.7
180°	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0

(END OF REPORT)