

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: P331777-927

Luminaire Tested: **S122RDIW-S290D1240U927-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331777-927  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122RDIW-S290D1240U927-4F0-1E-UDD-A  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1240 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

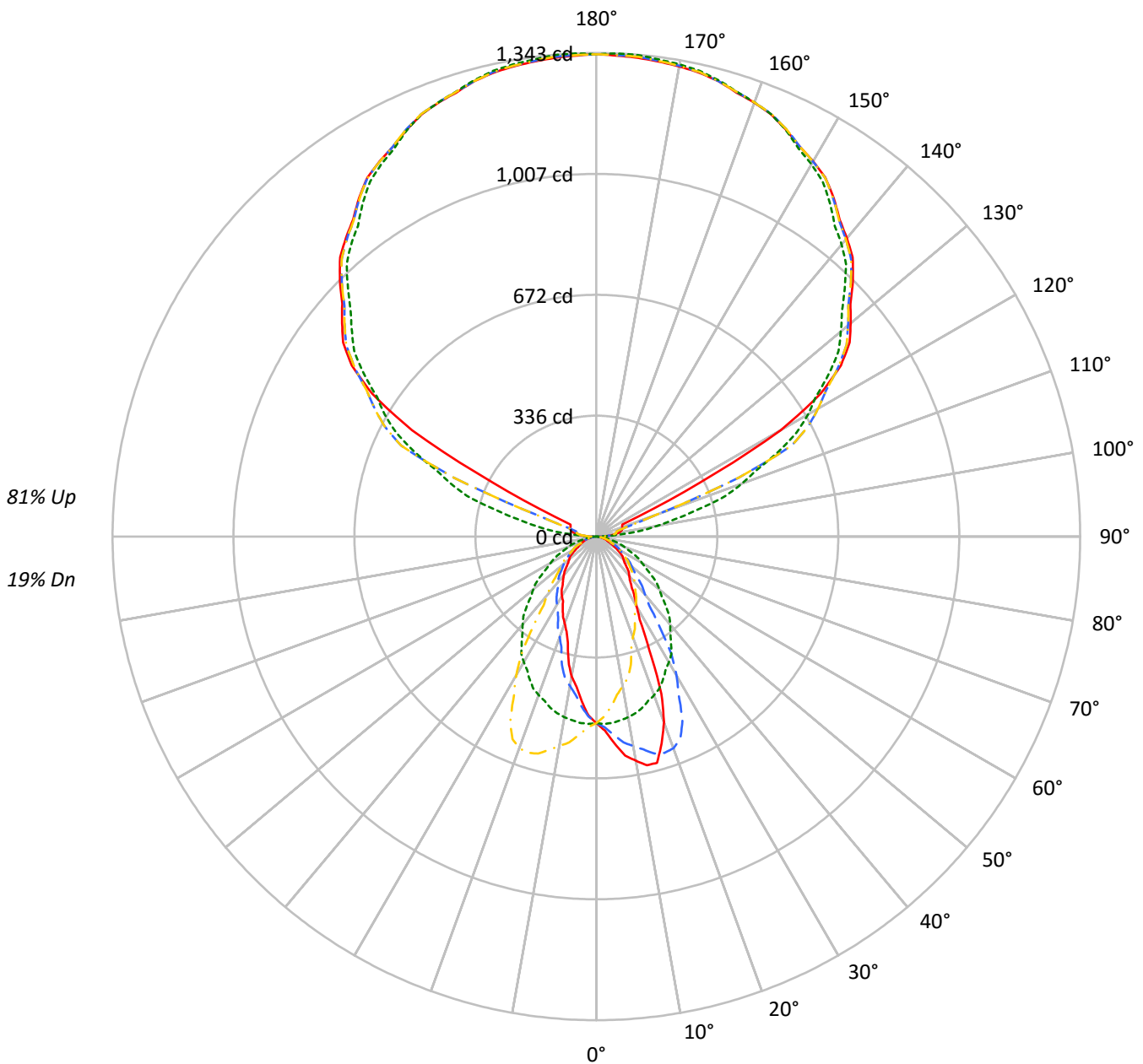
Lumens per Lamp: N/A  
Luminaire Lumens: 4823.0 lumens  
Efficiency: N/A  
Efficacy: 103.5 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 46.6  
Input Voltage (V): 120  
Input Current (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	88	88	88	88	66	66	66	46	46	46	27	27	27	19
1	91	87	83	80	80	77	74	71	58	56	54	41	39	38	24	24	23	16
2	83	76	71	66	73	68	63	59	51	48	45	36	34	33	22	21	20	14
3	76	67	60	55	67	60	54	49	45	42	38	32	30	28	20	19	18	12
4	69	60	52	47	61	53	47	42	40	36	33	29	26	24	18	16	15	11
5	64	53	46	40	56	47	41	36	36	32	28	26	23	21	16	15	14	10
6	59	47	40	35	52	42	36	31	32	28	25	23	21	18	15	13	12	9
7	54	43	35	30	48	38	32	27	29	25	22	21	18	16	14	12	11	8
8	50	39	32	27	44	35	28	24	27	22	19	19	17	15	12	11	10	7
9	47	35	28	24	41	32	26	21	25	20	17	18	15	13	12	10	9	7
10	43	32	26	21	38	29	23	19	23	18	15	16	14	12	11	9	8	6

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

	0°	90°	180°	270°
0°	8360	8360	8360	8360
5°	9339	8413	7460	8413
10°	10362	8355	6466	8355
15°	10870	8232	5095	8232
20°	9424	8052	4409	8052
25°	6180	7803	3935	7803
30°	4161	7500	3563	7500
35°	3370	7121	3213	7121
40°	2995	6709	2974	6709
45°	2710	6224	2653	6224
50°	2467	5745	2459	5745
55°	2320	5210	2291	5210
60°	1941	4724	1918	4724
65°	1639	4290	1857	4290
70°	1511	3829	1751	3829
75°	1416	3337	1616	3337
80°	1302	2743	1432	2743
85°	1204	2167	1260	2167



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.1	1.0
10°-20°	136.8	2.8
20°-30°	176.3	3.7
30°-40°	167.5	3.5
40°-50°	143.5	3.0
50°-60°	109.3	2.3
60°-70°	69.1	1.4
70°-80°	34.5	0.7
80°-90°	12.3	0.3
90°-100°	44.7	0.9
100°-110°	163.8	3.4
110°-120°	437.9	9.1
120°-130°	722.9	15.0
130°-140°	768.8	15.9
140°-150°	714.5	14.8
150°-160°	574.5	11.9
160°-170°	370.2	7.7
170°-180°	127.4	2.6
0°-30°	362.2	7.5
0°-40°	529.7	11.0
0°-60°	782.5	16.2
0°-90°	898.3	18.6
90°-120°	646.4	13.4
90°-150°	2852.5	59.1
90°-180°	3925.0	81.4
0°-180°	4823.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	518	518	518	518	518	
5°	576	519	460	519	576	57
15°	650	492	305	492	650	175
25°	347	438	221	438	347	165
35°	171	361	163	361	171	109
45°	119	273	116	273	119	92
55°	82	185	81	185	82	72
65°	43	112	49	112	43	44
75°	23	54	26	54	23	24
85°	6	12	7	12	6	8
90°	26	1	26	1	26	12
95°	42	63	42	63	42	39
105°	74	295	74	295	74	77
115°	80	557	80	557	80	199
125°	828	788	828	788	828	717
135°	1007	975	1007	975	1007	776
145°	1148	1131	1148	1131	1148	718
155°	1246	1245	1246	1245	1246	575
165°	1309	1312	1309	1312	1309	370
175°	1334	1342	1334	1342	1334	127
180°	1339	1339	1339	1339	1339	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8
2.5°	538.9	539.3	539.8	538.8	538.8	537.9	536.0	534.6	530.5	530.0	530.0
5°	576.2	575.8	576.6	574.2	571.0	570.2	566.8	562.3	557.6	552.5	551.4
7.5°	613.2	612.7	611.2	610.9	608.4	602.9	597.5	591.6	583.8	576.2	572.4
10°	632.0	637.9	634.3	628.0	629.2	620.8	616.3	608.6	602.1	590.7	588.3
12.5°	650.4	652.8	651.6	648.0	646.4	640.6	634.5	627.7	615.8	605.6	596.8
15°	650.3	653.7	654.7	653.6	654.4	654.1	650.9	645.3	634.9	623.7	613.9
17.5°	602.3	604.7	610.6	614.6	619.6	630.3	635.6	637.5	636.0	629.6	622.8
20°	548.5	544.5	561.1	569.5	576.7	594.7	610.2	616.2	625.7	625.5	623.7
22.5°	472.1	473.1	488.8	498.8	519.8	537.9	555.5	577.8	596.3	608.5	615.6
25°	346.9	353.8	369.4	383.1	406.5	440.0	470.4	505.6	538.9	565.2	590.3
27.5°	260.5	261.1	273.5	286.1	300.0	327.4	365.8	407.8	455.3	494.5	539.5
30°	223.2	222.0	227.3	235.0	246.9	268.2	296.9	338.3	385.6	444.7	497.2
32.5°	196.6	196.7	200.7	206.4	216.2	230.5	250.3	283.9	328.6	386.7	448.2
35°	171.0	170.8	173.6	177.8	181.9	191.1	204.6	222.2	253.0	307.1	370.1
37.5°	152.5	153.3	154.7	157.3	161.8	167.0	175.1	187.0	208.8	240.9	293.8
40°	142.1	142.5	144.5	146.6	149.3	153.3	159.9	169.5	185.5	211.0	249.8
42.5°	132.7	133.0	134.4	136.4	138.6	142.5	148.1	156.3	169.3	189.2	221.1
45°	118.7	118.7	120.0	120.9	123.3	126.8	131.3	138.2	147.2	161.9	183.2
47.5°	105.8	105.8	106.6	108.1	109.6	112.4	116.8	122.5	129.0	140.4	158.5
50°	98.2	98.5	98.9	100.2	101.2	103.6	107.1	111.9	118.7	127.6	142.7
52.5°	92.2	92.1	92.8	93.3	94.0	95.7	98.3	102.6	108.7	116.4	128.9
55°	82.4	81.7	82.8	83.7	84.2	84.9	86.3	89.0	94.3	100.8	110.1
57.5°	70.2	69.9	70.7	71.5	73.2	75.1	76.4	78.0	80.7	85.4	94.7
60°	60.1	60.1	61.7	62.3	64.2	66.8	69.3	70.7	73.4	76.4	83.3
62.5°	51.2	51.3	52.0	52.6	53.7	56.8	60.4	63.5	66.1	69.0	73.5
65°	42.9	43.2	43.2	43.6	44.3	45.0	46.4	49.0	53.5	57.6	61.0
67.5°	36.4	36.4	36.6	36.9	37.1	37.9	38.5	39.6	40.6	44.5	48.8
70°	32.0	32.6	32.4	32.7	33.0	33.3	34.0	34.5	36.2	37.1	39.6
72.5°	28.0	28.4	28.4	28.6	29.1	29.2	29.7	30.3	31.3	32.0	33.4
75°	22.7	22.5	22.7	23.1	23.2	23.4	23.4	24.1	24.6	25.3	26.3
77.5°	17.5	17.7	17.7	17.7	17.7	18.1	18.0	18.3	18.9	19.3	19.6
80°	14.0	14.2	14.0	14.2	14.4	14.6	14.4	14.6	15.1	15.4	15.4
82.5°	10.9	10.9	11.0	11.0	11.1	11.1	11.4	11.4	11.8	11.7	11.9
85°	6.5	6.3	6.3	6.3	6.5	6.7	6.5	6.5	6.7	6.7	6.7
87.5°	7.5	7.6	7.5	7.4	7.4	7.2	7.0	6.9	6.6	6.5	5.9
90°	26.1	25.7	25.3	24.9	24.5	23.7	22.6	21.5	20.4	19.4	17.7
92.5°	26.1	25.9	25.7	25.3	25.1	24.7	24.2	23.6	23.1	22.5	21.6
95°	41.7	41.9	42.1	42.3	42.5	42.1	41.0	39.9	38.9	37.8	36.3
97.5°	55.6	55.4	55.1	54.8	54.6	54.0	53.2	52.3	51.4	50.6	47.1
100°	65.0	64.5	64.1	63.6	63.2	62.1	60.4	58.7	57.0	55.2	51.6
102.5°	69.6	69.0	68.4	67.7	67.2	65.8	63.5	61.2	59.0	56.8	87.4
105°	73.7	72.8	71.9	71.1	70.2	68.6	66.2	63.8	61.5	59.1	117.9
107.5°	75.8	74.9	74.1	73.2	72.3	73.1	75.5	78.0	80.3	82.8	153.3
110°	76.5	75.7	74.9	74.0	73.1	83.4	105.0	126.5	148.1	169.6	231.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	77.3	76.6	76.0	75.3	74.5	113.5	192.1	270.6	349.2	427.7	443.1
115°	79.5	95.0	110.5	126.0	141.5	199.1	298.8	398.5	498.2	597.9	592.6
117.5°	324.4	375.4	426.4	477.3	528.2	565.8	589.9	614.0	638.1	662.3	658.5
120°	591.1	620.2	649.3	678.3	707.4	720.6	718.0	715.5	712.9	710.3	706.5
122.5°	737.6	743.3	748.9	754.6	760.2	762.2	760.7	759.1	757.6	756.1	751.9
125°	828.5	827.9	827.3	826.6	825.9	824.9	823.4	821.9	820.4	818.9	814.8
127.5°	885.9	885.7	885.7	885.5	885.4	884.2	882.0	879.8	877.7	875.4	872.4
130°	921.5	921.8	922.0	922.2	922.4	921.3	919.0	916.6	914.3	911.9	909.5
132.5°	956.5	956.6	956.9	957.1	957.3	956.4	954.3	952.4	950.3	948.3	945.9
135°	1006.9	1007.3	1007.7	1008.1	1008.5	1007.7	1005.5	1003.4	1001.2	999.1	997.1
137.5°	1052.7	1053.5	1054.2	1054.9	1055.7	1055.0	1052.9	1050.8	1048.7	1046.6	1044.3
140°	1081.5	1082.5	1083.6	1084.7	1085.8	1085.4	1083.4	1081.5	1079.5	1077.6	1075.2
142.5°	1109.4	1110.4	1111.5	1112.6	1113.6	1113.3	1111.6	1109.8	1108.0	1106.3	1103.5
145°	1148.3	1149.4	1150.5	1151.5	1152.6	1152.4	1150.9	1149.4	1147.9	1146.4	1142.7
147.5°	1182.6	1183.5	1184.4	1185.3	1186.2	1186.1	1185.0	1183.9	1182.8	1181.6	1178.1
150°	1203.6	1204.6	1205.7	1206.8	1207.8	1207.8	1206.5	1205.1	1203.9	1202.6	1199.1
152.5°	1221.4	1222.8	1224.2	1225.7	1227.1	1227.2	1225.8	1224.6	1223.3	1221.9	1218.7
155°	1246.2	1247.9	1249.7	1251.3	1253.1	1253.3	1252.0	1250.7	1249.4	1248.2	1245.5
157.5°	1268.8	1270.6	1272.2	1273.9	1275.6	1275.7	1274.2	1272.8	1271.3	1269.9	1268.0
160°	1282.1	1283.6	1285.1	1286.6	1288.1	1288.2	1286.9	1285.6	1284.3	1283.0	1281.8
162.5°	1292.9	1294.7	1296.6	1298.5	1300.3	1300.5	1299.0	1297.6	1296.1	1294.7	1293.6
165°	1309.2	1310.7	1312.2	1313.7	1315.2	1315.2	1313.7	1312.2	1310.7	1309.2	1308.5
167.5°	1319.5	1321.4	1323.3	1325.2	1327.2	1327.4	1325.9	1324.4	1322.9	1321.4	1320.8
170°	1325.6	1327.6	1329.5	1331.5	1333.4	1333.6	1332.1	1330.6	1329.1	1327.6	1327.1
172.5°	1330.3	1332.2	1334.2	1336.1	1338.1	1338.2	1336.7	1335.2	1333.7	1332.2	1331.8
175°	1334.4	1336.5	1338.7	1340.8	1343.0	1343.3	1341.8	1340.3	1338.8	1337.3	1336.9
177.5°	1336.9	1338.5	1340.0	1341.6	1343.1	1343.3	1342.0	1340.8	1339.7	1338.5	1338.2
180°	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8
2.5°	530.3	529.1	528.1	525.5	524.2	521.3	520.9	520.8	517.1	513.4	512.4
5°	548.5	545.6	541.3	536.2	531.0	525.6	522.0	519.1	511.9	505.1	501.1
7.5°	566.8	560.6	553.2	543.7	535.7	526.8	520.1	514.2	504.0	494.2	487.6
10°	580.5	570.5	560.5	547.4	537.1	527.0	517.7	509.6	498.1	485.1	475.9
12.5°	589.0	577.9	564.3	551.4	538.1	525.3	512.8	502.4	488.9	475.5	464.6
15°	600.5	588.6	572.0	553.7	536.6	519.8	505.5	492.5	474.9	458.8	445.5
17.5°	609.9	593.5	575.8	554.5	534.7	513.5	495.0	478.4	458.8	439.4	423.7
20°	612.9	596.7	576.2	554.9	531.6	506.5	486.6	468.6	447.5	426.4	408.4
22.5°	611.0	598.4	575.6	550.2	526.2	500.1	477.5	456.6	433.2	411.8	390.9
25°	598.3	594.0	572.4	544.7	517.4	487.0	460.8	438.0	411.4	388.3	365.7
27.5°	568.7	578.1	564.7	535.1	504.7	472.1	442.8	416.8	389.1	363.2	340.6
30°	540.2	561.6	555.9	528.5	494.5	462.5	429.5	402.3	372.9	346.2	323.9
32.5°	501.2	536.5	542.2	519.3	484.1	448.9	414.4	387.4	356.6	328.5	306.7
35°	439.0	491.9	516.3	501.7	466.4	428.4	392.8	361.3	330.3	302.7	281.1
37.5°	365.0	437.0	477.5	478.6	446.2	406.7	367.9	336.6	304.9	277.7	254.4
40°	316.9	395.0	447.7	459.4	432.1	389.4	350.1	318.3	287.4	260.7	233.9
42.5°	273.7	351.5	416.3	436.7	414.9	372.6	333.2	299.9	269.8	244.6	217.2
45°	221.3	289.4	360.8	397.1	385.1	345.9	304.3	272.6	244.4	222.6	196.3
47.5°	186.7	234.6	303.8	352.9	352.8	317.0	276.0	245.7	219.5	199.1	177.8
50°	167.0	208.7	267.2	323.0	327.6	297.6	258.7	228.7	204.2	182.8	165.7
52.5°	149.2	183.7	236.2	289.8	303.1	277.0	239.3	211.6	187.8	168.1	153.5
55°	126.1	152.8	192.7	242.7	262.9	244.5	211.0	185.1	165.9	149.3	136.7
57.5°	106.7	126.7	158.8	199.0	222.4	211.0	183.3	162.2	145.8	130.8	120.9
60°	94.5	110.8	138.0	171.7	197.6	189.5	165.9	146.3	132.3	119.3	110.0
62.5°	82.9	97.0	120.3	147.7	171.3	168.0	148.8	132.3	120.0	108.2	100.3
65°	66.8	77.0	95.2	116.6	135.7	137.3	123.4	112.3	101.3	92.0	84.9
67.5°	53.2	59.9	72.6	90.7	105.0	110.1	101.6	93.1	84.4	77.2	71.1
70°	44.8	50.2	59.6	74.1	87.3	92.7	87.8	81.1	73.6	67.7	62.4
72.5°	36.3	41.6	48.5	59.2	70.4	76.3	74.5	69.8	63.7	58.7	53.8
75°	27.3	29.0	33.7	40.9	49.7	54.7	55.9	53.5	48.6	44.8	41.9
77.5°	20.2	21.2	23.4	27.2	33.0	37.5	39.3	39.0	35.6	33.5	30.7
80°	16.2	16.7	17.8	19.4	23.8	28.3	29.5	29.5	27.2	26.3	23.6
82.5°	12.3	12.7	13.4	14.3	16.2	20.2	21.6	21.9	20.4	19.3	17.1
85°	7.1	6.8	7.2	7.8	8.1	9.2	11.3	11.7	11.3	9.9	9.3
87.5°	5.6	5.5	5.1	4.5	4.2	3.9	4.1	4.4	4.3	4.3	4.5
90°	15.9	14.2	12.5	10.5	8.1	5.7	3.3	1.0	3.3	5.7	8.1
92.5°	20.8	19.9	19.0	18.7	18.9	19.2	19.3	19.6	19.3	19.2	18.9
95°	34.8	33.3	31.8	34.5	41.7	48.8	55.8	63.0	55.8	48.8	41.7
97.5°	43.6	40.1	36.6	44.9	65.0	84.9	105.0	125.0	105.0	84.9	65.0
100°	47.9	44.3	40.6	53.6	83.0	112.5	142.0	171.5	142.0	112.5	83.0
102.5°	118.0	148.6	179.3	197.7	204.0	210.2	216.4	222.7	216.4	210.2	204.0
105°	176.7	235.5	294.3	320.4	313.9	307.5	301.0	294.6	301.0	307.5	313.9
107.5°	223.8	294.3	364.8	397.4	392.2	387.0	381.8	376.6	381.8	387.0	392.2
110°	294.1	356.3	418.5	447.3	442.8	438.3	433.8	429.3	433.8	438.3	442.8





TEST NUMBER: P331777-927

CATALOG NUMBER: S122RDIW-S290D1240U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	458.5	473.9	489.3	495.0	490.9	486.9	482.9	478.9	482.9	486.9	490.9
115°	587.2	581.8	576.4	571.9	568.2	564.5	560.9	557.2	560.9	564.5	568.2
117.5°	654.8	651.1	647.5	643.6	639.4	635.3	631.3	627.2	631.3	635.3	639.4
120°	702.6	698.7	694.8	691.3	688.0	684.8	681.6	678.3	681.6	684.8	688.0
122.5°	747.6	743.4	739.2	735.4	732.0	728.6	725.2	721.8	725.2	728.6	732.0
125°	810.6	806.6	802.5	799.0	796.2	793.4	790.6	787.8	790.6	793.4	796.2
127.5°	869.3	866.3	863.2	860.2	857.1	853.9	850.8	847.7	850.8	853.9	857.1
130°	907.1	904.8	902.4	899.5	896.0	892.6	889.1	885.7	889.1	892.6	896.0
132.5°	943.6	941.2	938.8	936.2	933.3	930.3	927.4	924.5	927.4	930.3	933.3
135°	995.2	993.2	991.3	988.6	985.2	981.8	978.3	974.9	978.3	981.8	985.2
137.5°	1042.2	1040.0	1037.8	1035.5	1033.1	1030.6	1028.3	1025.8	1028.3	1030.6	1033.1
140°	1072.9	1070.5	1068.1	1066.0	1064.3	1062.6	1060.9	1059.1	1060.9	1062.6	1064.3
142.5°	1100.8	1098.1	1095.4	1093.3	1091.7	1090.2	1088.6	1087.1	1088.6	1090.2	1091.7
145°	1139.1	1135.4	1131.7	1130.0	1130.2	1130.4	1130.7	1130.8	1130.7	1130.4	1130.2
147.5°	1174.4	1170.8	1167.2	1165.8	1166.6	1167.4	1168.2	1169.0	1168.2	1167.4	1166.6
150°	1195.7	1192.2	1188.8	1187.8	1189.3	1190.9	1192.4	1193.9	1192.4	1190.9	1189.3
152.5°	1215.4	1212.1	1208.9	1208.1	1209.7	1211.4	1213.1	1214.8	1213.1	1211.4	1209.7
155°	1242.9	1240.4	1237.8	1237.5	1239.4	1241.3	1243.3	1245.2	1243.3	1241.3	1239.4
157.5°	1266.2	1264.4	1262.6	1262.5	1264.2	1265.7	1267.4	1269.1	1267.4	1265.7	1264.2
160°	1280.4	1279.1	1277.9	1277.9	1279.1	1280.4	1281.8	1283.0	1281.8	1280.4	1279.1
162.5°	1292.4	1291.3	1290.1	1290.2	1291.6	1292.8	1294.1	1295.5	1294.1	1292.8	1291.6
165°	1307.9	1307.3	1306.6	1306.9	1308.2	1309.5	1310.8	1312.1	1310.8	1309.5	1308.2
167.5°	1320.2	1319.6	1319.0	1319.3	1320.6	1321.9	1323.2	1324.5	1323.2	1321.9	1320.6
170°	1326.7	1326.3	1325.9	1326.3	1327.6	1328.9	1330.2	1331.5	1330.2	1328.9	1327.6
172.5°	1331.3	1330.9	1330.5	1330.9	1332.2	1333.6	1334.8	1336.1	1334.8	1333.6	1332.2
175°	1336.4	1336.0	1335.5	1336.1	1337.6	1339.1	1340.6	1342.1	1340.6	1339.1	1337.6
177.5°	1338.1	1337.9	1337.8	1338.2	1339.5	1340.7	1341.9	1343.1	1341.9	1340.7	1339.5
180°	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2



TEST NUMBER: P331777-927

CATALOG NUMBER: S122RDIW-S290D1240U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8
2.5°	510.6	509.5	507.6	504.8	503.0	500.0	498.0	499.2	499.5	499.2	498.9
5°	496.9	493.1	487.8	482.8	478.1	473.1	470.2	469.0	466.4	465.0	464.2
7.5°	480.2	473.7	466.4	457.6	450.1	442.3	438.3	436.3	431.2	428.4	426.0
10°	467.9	457.6	450.2	438.7	431.7	421.4	414.4	414.6	407.6	403.6	400.8
12.5°	454.2	442.9	430.6	420.3	410.5	402.3	393.8	390.4	382.9	379.1	371.4
15°	431.5	418.4	405.4	391.4	381.5	368.7	356.5	341.5	329.5	319.0	316.2
17.5°	406.8	390.5	377.5	361.0	344.0	322.6	308.4	299.7	292.5	286.9	282.8
20°	389.8	373.2	359.3	334.5	311.6	297.1	286.7	280.0	272.4	266.5	263.2
22.5°	371.9	354.7	335.7	308.0	290.2	278.5	269.3	261.6	256.4	251.8	248.8
25°	346.6	327.6	296.5	277.5	263.1	250.8	244.4	239.7	234.3	228.0	225.1
27.5°	319.8	289.8	267.4	253.2	239.5	231.6	225.7	218.7	213.9	211.0	208.0
30°	299.8	269.7	252.3	236.8	227.1	218.2	211.4	207.5	202.8	198.0	196.0
32.5°	277.5	253.5	236.7	223.9	214.0	206.4	201.1	194.6	191.3	188.3	184.2
35°	249.8	231.6	216.3	205.9	196.5	190.4	184.1	180.3	174.2	171.7	170.1
37.5°	226.3	210.6	199.2	188.1	180.7	174.0	170.1	164.1	161.4	157.9	154.5
40°	213.0	197.6	186.6	177.6	169.3	164.3	159.5	154.6	150.6	149.0	144.9
42.5°	199.6	187.0	175.9	166.1	160.6	155.2	149.1	145.5	141.4	138.8	136.3
45°	180.9	169.7	160.3	152.3	146.1	140.5	136.6	130.6	128.3	123.1	120.9
47.5°	164.5	154.1	145.1	137.4	131.5	127.9	122.1	117.4	113.7	110.4	107.7
50°	152.8	144.1	135.5	128.7	123.3	118.0	112.1	109.8	104.0	102.3	100.8
52.5°	142.1	133.9	126.0	119.3	113.9	108.8	103.6	100.5	96.6	95.1	93.9
55°	127.2	119.3	111.8	105.8	100.4	95.2	92.0	88.2	86.3	85.1	83.7
57.5°	112.3	105.1	99.3	93.3	87.9	83.7	80.0	77.7	75.9	74.2	72.5
60°	102.7	95.9	90.7	85.1	79.5	76.1	73.3	70.5	68.4	65.8	65.1
62.5°	92.7	86.7	81.9	76.4	71.6	68.5	65.8	63.2	60.6	57.0	55.9
65°	78.8	74.1	69.1	64.6	60.3	57.2	53.2	50.4	49.3	49.0	48.8
67.5°	66.3	61.9	57.5	52.9	49.0	46.2	44.1	43.7	42.9	42.8	42.2
70°	57.9	53.8	49.5	45.2	41.4	40.9	40.2	39.4	38.5	38.2	37.8
72.5°	50.5	46.2	41.8	38.4	36.8	36.1	35.4	34.6	34.1	33.7	33.5
75°	38.7	34.7	31.8	30.6	29.7	29.2	28.0	27.6	27.2	26.6	26.5
77.5°	27.9	25.6	24.3	23.5	22.6	22.0	21.4	20.8	20.4	20.4	20.0
80°	21.2	20.1	19.3	18.1	17.8	17.1	17.0	16.4	16.6	16.0	16.0
82.5°	16.5	15.1	14.3	13.9	13.5	12.9	12.8	12.5	12.5	12.1	12.1
85°	8.5	8.1	7.8	7.4	7.4	6.8	7.1	6.8	6.8	6.5	6.3
87.5°	4.8	5.1	5.1	5.5	5.9	6.0	6.3	6.3	6.6	6.7	6.7
90°	10.5	12.5	14.2	15.9	17.7	19.4	20.4	21.5	22.6	23.7	24.5
92.5°	18.7	19.0	19.9	20.8	21.6	22.5	23.1	23.6	24.2	24.7	25.1
95°	34.5	31.8	33.3	34.8	36.3	37.8	38.9	39.9	41.0	42.1	42.5
97.5°	44.9	36.6	40.1	43.6	47.1	50.6	51.4	52.3	53.2	54.0	54.6
100°	53.6	40.6	44.3	47.9	51.6	55.2	57.0	58.7	60.4	62.1	63.2
102.5°	197.7	179.3	148.6	118.0	87.4	56.8	59.0	61.2	63.5	65.8	67.2
105°	320.4	294.3	235.5	176.7	117.9	59.1	61.5	63.8	66.2	68.6	70.2
107.5°	397.4	364.8	294.3	223.8	153.3	82.8	80.3	78.0	75.5	73.1	72.3
110°	447.3	418.5	356.3	294.1	231.8	169.6	148.1	126.5	105.0	83.4	73.1



TEST NUMBER: P331777-927

CATALOG NUMBER: S122RDIW-S290D1240U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	495.0	489.3	473.9	458.5	443.1	427.7	349.2	270.6	192.1	113.5	74.5
115°	571.9	576.4	581.8	587.2	592.6	597.9	498.2	398.5	298.8	199.1	141.5
117.5°	643.6	647.5	651.1	654.8	658.5	662.3	638.1	614.0	589.9	565.8	528.2
120°	691.3	694.8	698.7	702.6	706.5	710.3	712.9	715.5	718.0	720.6	707.4
122.5°	735.4	739.2	743.4	747.6	751.9	756.1	757.6	759.1	760.7	762.2	760.2
125°	799.0	802.5	806.6	810.6	814.8	818.9	820.4	821.9	823.4	824.9	825.9
127.5°	860.2	863.2	866.3	869.3	872.4	875.4	877.7	879.8	882.0	884.2	885.4
130°	899.5	902.4	904.8	907.1	909.5	911.9	914.3	916.6	919.0	921.3	922.4
132.5°	936.2	938.8	941.2	943.6	945.9	948.3	950.3	952.4	954.3	956.4	957.3
135°	988.6	991.3	993.2	995.2	997.1	999.1	1001.2	1003.4	1005.5	1007.7	1008.5
137.5°	1035.5	1037.8	1040.0	1042.2	1044.3	1046.6	1048.7	1050.8	1052.9	1055.0	1055.7
140°	1066.0	1068.1	1070.5	1072.9	1075.2	1077.6	1079.5	1081.5	1083.4	1085.4	1085.8
142.5°	1093.3	1095.4	1098.1	1100.8	1103.5	1106.3	1108.0	1109.8	1111.6	1113.3	1113.6
145°	1130.0	1131.7	1135.4	1139.1	1142.7	1146.4	1147.9	1149.4	1150.9	1152.4	1152.6
147.5°	1165.8	1167.2	1170.8	1174.4	1178.1	1181.6	1182.8	1183.9	1185.0	1186.1	1186.2
150°	1187.8	1188.8	1192.2	1195.7	1199.1	1202.6	1203.9	1205.1	1206.5	1207.8	1207.8
152.5°	1208.1	1208.9	1212.1	1215.4	1218.7	1221.9	1223.3	1224.6	1225.8	1227.2	1227.1
155°	1237.5	1237.8	1240.4	1242.9	1245.5	1248.2	1249.4	1250.7	1252.0	1253.3	1253.1
157.5°	1262.5	1262.6	1264.4	1266.2	1268.0	1269.9	1271.3	1272.8	1274.2	1275.7	1275.6
160°	1277.9	1277.9	1279.1	1280.4	1281.8	1283.0	1284.3	1285.6	1286.9	1288.2	1288.1
162.5°	1290.2	1290.1	1291.3	1292.4	1293.6	1294.7	1296.1	1297.6	1299.0	1300.5	1300.3
165°	1306.9	1306.6	1307.3	1307.9	1308.5	1309.2	1310.7	1312.2	1313.7	1315.2	1315.2
167.5°	1319.3	1319.0	1319.6	1320.2	1320.8	1321.4	1322.9	1324.4	1325.9	1327.4	1327.2
170°	1326.3	1325.9	1326.3	1326.7	1327.1	1327.6	1329.1	1330.6	1332.1	1333.6	1333.4
172.5°	1330.9	1330.5	1330.9	1331.3	1331.8	1332.2	1333.7	1335.2	1336.7	1338.2	1338.1
175°	1336.1	1335.5	1336.0	1336.4	1336.9	1337.3	1338.8	1340.3	1341.8	1343.3	1343.0
177.5°	1338.2	1337.8	1337.9	1338.1	1338.2	1338.5	1339.7	1340.8	1342.0	1343.3	1343.1
180°	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2



TEST NUMBER: P331777-927

CATALOG NUMBER: S122RDIW-S290D1240U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8
2.5°	497.3	497.6	497.2	497.4	497.2	497.6	497.3	498.9	499.2	499.5	499.2
5°	463.3	461.2	460.8	460.3	460.8	461.2	463.3	464.2	465.0	466.4	469.0
7.5°	422.9	422.6	421.6	420.3	421.6	422.6	422.9	426.0	428.4	431.2	436.3
10°	396.8	395.9	395.7	394.4	395.7	395.9	396.8	400.8	403.6	407.6	414.6
12.5°	366.2	360.4	359.9	356.7	359.9	360.4	366.2	371.4	379.1	382.9	390.4
15°	311.9	310.8	307.1	304.8	307.1	310.8	311.9	316.2	319.0	329.5	341.5
17.5°	280.7	277.2	276.1	275.6	276.1	277.2	280.7	282.8	286.9	292.5	299.7
20°	260.7	257.5	257.0	256.6	257.0	257.5	260.7	263.2	266.5	272.4	280.0
22.5°	246.9	243.5	242.2	241.1	242.2	243.5	246.9	248.8	251.8	256.4	261.6
25°	223.3	222.0	221.3	220.9	221.3	222.0	223.3	225.1	228.0	234.3	239.7
27.5°	204.9	202.1	201.5	200.6	201.5	202.1	204.9	208.0	211.0	213.9	218.7
30°	194.3	193.5	192.2	191.1	192.2	193.5	194.3	196.0	198.0	202.8	207.5
32.5°	182.0	181.2	180.1	179.6	180.1	181.2	182.0	184.2	188.3	191.3	194.6
35°	168.3	165.7	164.6	163.0	164.6	165.7	168.3	170.1	171.7	174.2	180.3
37.5°	153.8	152.4	150.9	151.5	150.9	152.4	153.8	154.5	157.9	161.4	164.1
40°	142.5	141.6	141.2	141.1	141.2	141.6	142.5	144.9	149.0	150.6	154.6
42.5°	133.6	131.1	130.2	130.2	130.2	131.1	133.6	136.3	138.8	141.4	145.5
45°	120.0	117.7	116.1	116.2	116.1	117.7	120.0	120.9	123.1	128.3	130.6
47.5°	106.2	106.1	105.0	105.4	105.0	106.1	106.2	107.7	110.4	113.7	117.4
50°	99.5	98.5	97.7	97.9	97.7	98.5	99.5	100.8	102.3	104.0	109.8
52.5°	93.2	92.2	91.7	92.4	91.7	92.2	93.2	93.9	95.1	96.6	100.5
55°	82.8	81.7	81.5	81.4	81.5	81.7	82.8	83.7	85.1	86.3	88.2
57.5°	71.1	70.4	69.3	68.9	69.3	70.4	71.1	72.5	74.2	75.9	77.7
60°	62.8	61.4	59.6	59.4	59.6	61.4	62.8	65.1	65.8	68.4	70.5
62.5°	55.1	54.9	54.5	54.5	54.5	54.9	55.1	55.9	57.0	60.6	63.2
65°	48.4	48.2	48.4	48.6	48.4	48.2	48.4	48.8	49.0	49.3	50.4
67.5°	42.1	41.8	41.5	41.7	41.5	41.8	42.1	42.2	42.8	42.9	43.7
70°	37.4	37.2	37.1	37.1	37.1	37.2	37.4	37.8	38.2	38.5	39.4
72.5°	32.8	32.8	32.6	32.5	32.6	32.8	32.8	33.5	33.7	34.1	34.6
75°	26.3	25.9	25.9	25.9	25.9	25.9	26.3	26.5	26.6	27.2	27.6
77.5°	20.0	19.8	19.6	19.5	19.6	19.8	20.0	20.0	20.4	20.4	20.8
80°	15.8	15.7	15.4	15.4	15.4	15.7	15.8	16.0	16.0	16.6	16.4
82.5°	12.1	11.9	11.9	11.7	11.9	11.9	12.1	12.1	12.1	12.5	12.5
85°	6.5	6.7	6.5	6.8	6.5	6.7	6.5	6.3	6.5	6.8	6.8
87.5°	6.8	6.8	7.1	7.0	7.1	6.8	6.8	6.7	6.7	6.6	6.3
90°	24.9	25.3	25.7	26.1	25.7	25.3	24.9	24.5	23.7	22.6	21.5
92.5°	25.3	25.7	25.9	26.1	25.9	25.7	25.3	25.1	24.7	24.2	23.6
95°	42.3	42.1	41.9	41.7	41.9	42.1	42.3	42.5	42.1	41.0	39.9
97.5°	54.8	55.1	55.4	55.6	55.4	55.1	54.8	54.6	54.0	53.2	52.3
100°	63.6	64.1	64.5	65.0	64.5	64.1	63.6	63.2	62.1	60.4	58.7
102.5°	67.7	68.4	69.0	69.6	69.0	68.4	67.7	67.2	65.8	63.5	61.2
105°	71.1	71.9	72.8	73.7	72.8	71.9	71.1	70.2	68.6	66.2	63.8
107.5°	73.2	74.1	74.9	75.8	74.9	74.1	73.2	72.3	73.1	75.5	78.0
110°	74.0	74.9	75.7	76.5	75.7	74.9	74.0	73.1	83.4	105.0	126.5



TEST NUMBER: P331777-927

CATALOG NUMBER: S122RDIW-S290D1240U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	75.3	76.0	76.6	77.3	76.6	76.0	75.3	74.5	113.5	192.1	270.6
115°	126.0	110.5	95.0	79.5	95.0	110.5	126.0	141.5	199.1	298.8	398.5
117.5°	477.3	426.4	375.4	324.4	375.4	426.4	477.3	528.2	565.8	589.9	614.0
120°	678.3	649.3	620.2	591.1	620.2	649.3	678.3	707.4	720.6	718.0	715.5
122.5°	754.6	748.9	743.3	737.6	743.3	748.9	754.6	760.2	762.2	760.7	759.1
125°	826.6	827.3	827.9	828.5	827.9	827.3	826.6	825.9	824.9	823.4	821.9
127.5°	885.5	885.7	885.7	885.9	885.7	885.7	885.5	885.4	884.2	882.0	879.8
130°	922.2	922.0	921.8	921.5	921.8	922.0	922.2	922.4	921.3	919.0	916.6
132.5°	957.1	956.9	956.6	956.5	956.6	956.9	957.1	957.3	956.4	954.3	952.4
135°	1008.1	1007.7	1007.3	1006.9	1007.3	1007.7	1008.1	1008.5	1007.7	1005.5	1003.4
137.5°	1054.9	1054.2	1053.5	1052.7	1053.5	1054.2	1054.9	1055.7	1055.0	1052.9	1050.8
140°	1084.7	1083.6	1082.5	1081.5	1082.5	1083.6	1084.7	1085.8	1085.4	1083.4	1081.5
142.5°	1112.6	1111.5	1110.4	1109.4	1110.4	1111.5	1112.6	1113.6	1113.3	1111.6	1109.8
145°	1151.5	1150.5	1149.4	1148.3	1149.4	1150.5	1151.5	1152.6	1152.4	1150.9	1149.4
147.5°	1185.3	1184.4	1183.5	1182.6	1183.5	1184.4	1185.3	1186.2	1186.1	1185.0	1183.9
150°	1206.8	1205.7	1204.6	1203.6	1204.6	1205.7	1206.8	1207.8	1207.8	1206.5	1205.1
152.5°	1225.7	1224.2	1222.8	1221.4	1222.8	1224.2	1225.7	1227.1	1227.2	1225.8	1224.6
155°	1251.3	1249.7	1247.9	1246.2	1247.9	1249.7	1251.3	1253.1	1253.3	1252.0	1250.7
157.5°	1273.9	1272.2	1270.6	1268.8	1270.6	1272.2	1273.9	1275.6	1275.7	1274.2	1272.8
160°	1286.6	1285.1	1283.6	1282.1	1283.6	1285.1	1286.6	1288.1	1288.2	1286.9	1285.6
162.5°	1298.5	1296.6	1294.7	1292.9	1294.7	1296.6	1298.5	1300.3	1300.5	1299.0	1297.6
165°	1313.7	1312.2	1310.7	1309.2	1310.7	1312.2	1313.7	1315.2	1315.2	1313.7	1312.2
167.5°	1325.2	1323.3	1321.4	1319.5	1321.4	1323.3	1325.2	1327.2	1327.4	1325.9	1324.4
170°	1331.5	1329.5	1327.6	1325.6	1327.6	1329.5	1331.5	1333.4	1333.6	1332.1	1330.6
172.5°	1336.1	1334.2	1332.2	1330.3	1332.2	1334.2	1336.1	1338.1	1338.2	1336.7	1335.2
175°	1340.8	1338.7	1336.5	1334.4	1336.5	1338.7	1340.8	1343.0	1343.3	1341.8	1340.3
177.5°	1341.6	1340.0	1338.5	1336.9	1338.5	1340.0	1341.6	1343.1	1343.3	1342.0	1340.8
180°	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2



TEST NUMBER: P331777-927

CATALOG NUMBER: S122RDIW-S290D1240U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8
2.5°	498.0	500.0	503.0	504.8	507.6	509.5	510.6	512.4	513.4	517.1	520.8
5°	470.2	473.1	478.1	482.8	487.8	493.1	496.9	501.1	505.1	511.9	519.1
7.5°	438.3	442.3	450.1	457.6	466.4	473.7	480.2	487.6	494.2	504.0	514.2
10°	414.4	421.4	431.7	438.7	450.2	457.6	467.9	475.9	485.1	498.1	509.6
12.5°	393.8	402.3	410.5	420.3	430.6	442.9	454.2	464.6	475.5	488.9	502.4
15°	356.5	368.7	381.5	391.4	405.4	418.4	431.5	445.5	458.8	474.9	492.5
17.5°	308.4	322.6	344.0	361.0	377.5	390.5	406.8	423.7	439.4	458.8	478.4
20°	286.7	297.1	311.6	334.5	359.3	373.2	389.8	408.4	426.4	447.5	468.6
22.5°	269.3	278.5	290.2	308.0	335.7	354.7	371.9	390.9	411.8	433.2	456.6
25°	244.4	250.8	263.1	277.5	296.5	327.6	346.6	365.7	388.3	411.4	438.0
27.5°	225.7	231.6	239.5	253.2	267.4	289.8	319.8	340.6	363.2	389.1	416.8
30°	211.4	218.2	227.1	236.8	252.3	269.7	299.8	323.9	346.2	372.9	402.3
32.5°	201.1	206.4	214.0	223.9	236.7	253.5	277.5	306.7	328.5	356.6	387.4
35°	184.1	190.4	196.5	205.9	216.3	231.6	249.8	281.1	302.7	330.3	361.3
37.5°	170.1	174.0	180.7	188.1	199.2	210.6	226.3	254.4	277.7	304.9	336.6
40°	159.5	164.3	169.3	177.6	186.6	197.6	213.0	233.9	260.7	287.4	318.3
42.5°	149.1	155.2	160.6	166.1	175.9	187.0	199.6	217.2	244.6	269.8	299.9
45°	136.6	140.5	146.1	152.3	160.3	169.7	180.9	196.3	222.6	244.4	272.6
47.5°	122.1	127.9	131.5	137.4	145.1	154.1	164.5	177.8	199.1	219.5	245.7
50°	112.1	118.0	123.3	128.7	135.5	144.1	152.8	165.7	182.8	204.2	228.7
52.5°	103.6	108.8	113.9	119.3	126.0	133.9	142.1	153.5	168.1	187.8	211.6
55°	92.0	95.2	100.4	105.8	111.8	119.3	127.2	136.7	149.3	165.9	185.1
57.5°	80.0	83.7	87.9	93.3	99.3	105.1	112.3	120.9	130.8	145.8	162.2
60°	73.3	76.1	79.5	85.1	90.7	95.9	102.7	110.0	119.3	132.3	146.3
62.5°	65.8	68.5	71.6	76.4	81.9	86.7	92.7	100.3	108.2	120.0	132.3
65°	53.2	57.2	60.3	64.6	69.1	74.1	78.8	84.9	92.0	101.3	112.3
67.5°	44.1	46.2	49.0	52.9	57.5	61.9	66.3	71.1	77.2	84.4	93.1
70°	40.2	40.9	41.4	45.2	49.5	53.8	57.9	62.4	67.7	73.6	81.1
72.5°	35.4	36.1	36.8	38.4	41.8	46.2	50.5	53.8	58.7	63.7	69.8
75°	28.0	29.2	29.7	30.6	31.8	34.7	38.7	41.9	44.8	48.6	53.5
77.5°	21.4	22.0	22.6	23.5	24.3	25.6	27.9	30.7	33.5	35.6	39.0
80°	17.0	17.1	17.8	18.1	19.3	20.1	21.2	23.6	26.3	27.2	29.5
82.5°	12.8	12.9	13.5	13.9	14.3	15.1	16.5	17.1	19.3	20.4	21.9
85°	7.1	6.8	7.4	7.4	7.8	8.1	8.5	9.3	9.9	11.3	11.7
87.5°	6.3	6.0	5.9	5.5	5.1	5.1	4.8	4.5	4.3	4.3	4.4
90°	20.4	19.4	17.7	15.9	14.2	12.5	10.5	8.1	5.7	3.3	1.0
92.5°	23.1	22.5	21.6	20.8	19.9	19.0	18.7	18.9	19.2	19.3	19.6
95°	38.9	37.8	36.3	34.8	33.3	31.8	34.5	41.7	48.8	55.8	63.0
97.5°	51.4	50.6	47.1	43.6	40.1	36.6	44.9	65.0	84.9	105.0	125.0
100°	57.0	55.2	51.6	47.9	44.3	40.6	53.6	83.0	112.5	142.0	171.5
102.5°	59.0	56.8	87.4	118.0	148.6	179.3	197.7	204.0	210.2	216.4	222.7
105°	61.5	59.1	117.9	176.7	235.5	294.3	320.4	313.9	307.5	301.0	294.6
107.5°	80.3	82.8	153.3	223.8	294.3	364.8	397.4	392.2	387.0	381.8	376.6
110°	148.1	169.6	231.8	294.1	356.3	418.5	447.3	442.8	438.3	433.8	429.3



TEST NUMBER: P331777-927

CATALOG NUMBER: S122RDIW-S290D1240U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	349.2	427.7	443.1	458.5	473.9	489.3	495.0	490.9	486.9	482.9	478.9
115°	498.2	597.9	592.6	587.2	581.8	576.4	571.9	568.2	564.5	560.9	557.2
117.5°	638.1	662.3	658.5	654.8	651.1	647.5	643.6	639.4	635.3	631.3	627.2
120°	712.9	710.3	706.5	702.6	698.7	694.8	691.3	688.0	684.8	681.6	678.3
122.5°	757.6	756.1	751.9	747.6	743.4	739.2	735.4	732.0	728.6	725.2	721.8
125°	820.4	818.9	814.8	810.6	806.6	802.5	799.0	796.2	793.4	790.6	787.8
127.5°	877.7	875.4	872.4	869.3	866.3	863.2	860.2	857.1	853.9	850.8	847.7
130°	914.3	911.9	909.5	907.1	904.8	902.4	899.5	896.0	892.6	889.1	885.7
132.5°	950.3	948.3	945.9	943.6	941.2	938.8	936.2	933.3	930.3	927.4	924.5
135°	1001.2	999.1	997.1	995.2	993.2	991.3	988.6	985.2	981.8	978.3	974.9
137.5°	1048.7	1046.6	1044.3	1042.2	1040.0	1037.8	1035.5	1033.1	1030.6	1028.3	1025.8
140°	1079.5	1077.6	1075.2	1072.9	1070.5	1068.1	1066.0	1064.3	1062.6	1060.9	1059.1
142.5°	1108.0	1106.3	1103.5	1100.8	1098.1	1095.4	1093.3	1091.7	1090.2	1088.6	1087.1
145°	1147.9	1146.4	1142.7	1139.1	1135.4	1131.7	1130.0	1130.2	1130.4	1130.7	1130.8
147.5°	1182.8	1181.6	1178.1	1174.4	1170.8	1167.2	1165.8	1166.6	1167.4	1168.2	1169.0
150°	1203.9	1202.6	1199.1	1195.7	1192.2	1188.8	1187.8	1189.3	1190.9	1192.4	1193.9
152.5°	1223.3	1221.9	1218.7	1215.4	1212.1	1208.9	1208.1	1209.7	1211.4	1213.1	1214.8
155°	1249.4	1248.2	1245.5	1242.9	1240.4	1237.8	1237.5	1239.4	1241.3	1243.3	1245.2
157.5°	1271.3	1269.9	1268.0	1266.2	1264.4	1262.6	1262.5	1264.2	1265.7	1267.4	1269.1
160°	1284.3	1283.0	1281.8	1280.4	1279.1	1277.9	1277.9	1279.1	1280.4	1281.8	1283.0
162.5°	1296.1	1294.7	1293.6	1292.4	1291.3	1290.1	1290.2	1291.6	1292.8	1294.1	1295.5
165°	1310.7	1309.2	1308.5	1307.9	1307.3	1306.6	1306.9	1308.2	1309.5	1310.8	1312.1
167.5°	1322.9	1321.4	1320.8	1320.2	1319.6	1319.0	1319.3	1320.6	1321.9	1323.2	1324.5
170°	1329.1	1327.6	1327.1	1326.7	1326.3	1325.9	1326.3	1327.6	1328.9	1330.2	1331.5
172.5°	1333.7	1332.2	1331.8	1331.3	1330.9	1330.5	1330.9	1332.2	1333.6	1334.8	1336.1
175°	1338.8	1337.3	1336.9	1336.4	1336.0	1335.5	1336.1	1337.6	1339.1	1340.6	1342.1
177.5°	1339.7	1338.5	1338.2	1338.1	1337.9	1337.8	1338.2	1339.5	1340.7	1341.9	1343.1
180°	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2



TEST NUMBER: P331777-927

CATALOG NUMBER: S122RDIW-S290D1240U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8
2.5°	520.9	521.3	524.2	525.5	528.1	529.1	530.3	530.0	530.0	530.5	534.6
5°	522.0	525.6	531.0	536.2	541.3	545.6	548.5	551.4	552.5	557.6	562.3
7.5°	520.1	526.8	535.7	543.7	553.2	560.6	566.8	572.4	576.2	583.8	591.6
10°	517.7	527.0	537.1	547.4	560.5	570.5	580.5	588.3	590.7	602.1	608.6
12.5°	512.8	525.3	538.1	551.4	564.3	577.9	589.0	596.8	605.6	615.8	627.7
15°	505.5	519.8	536.6	553.7	572.0	588.6	600.5	613.9	623.7	634.9	645.3
17.5°	495.0	513.5	534.7	554.5	575.8	593.5	609.9	622.8	629.6	636.0	637.5
20°	486.6	506.5	531.6	554.9	576.2	596.7	612.9	623.7	625.5	625.7	616.2
22.5°	477.5	500.1	526.2	550.2	575.6	598.4	611.0	615.6	608.5	596.3	577.8
25°	460.8	487.0	517.4	544.7	572.4	594.0	598.3	590.3	565.2	538.9	505.6
27.5°	442.8	472.1	504.7	535.1	564.7	578.1	568.7	539.5	494.5	455.3	407.8
30°	429.5	462.5	494.5	528.5	555.9	561.6	540.2	497.2	444.7	385.6	338.3
32.5°	414.4	448.9	484.1	519.3	542.2	536.5	501.2	448.2	386.7	328.6	283.9
35°	392.8	428.4	466.4	501.7	516.3	491.9	439.0	370.1	307.1	253.0	222.2
37.5°	367.9	406.7	446.2	478.6	477.5	437.0	365.0	293.8	240.9	208.8	187.0
40°	350.1	389.4	432.1	459.4	447.7	395.0	316.9	249.8	211.0	185.5	169.5
42.5°	333.2	372.6	414.9	436.7	416.3	351.5	273.7	221.1	189.2	169.3	156.3
45°	304.3	345.9	385.1	397.1	360.8	289.4	221.3	183.2	161.9	147.2	138.2
47.5°	276.0	317.0	352.8	352.9	303.8	234.6	186.7	158.5	140.4	129.0	122.5
50°	258.7	297.6	327.6	323.0	267.2	208.7	167.0	142.7	127.6	118.7	111.9
52.5°	239.3	277.0	303.1	289.8	236.2	183.7	149.2	128.9	116.4	108.7	102.6
55°	211.0	244.5	262.9	242.7	192.7	152.8	126.1	110.1	100.8	94.3	89.0
57.5°	183.3	211.0	222.4	199.0	158.8	126.7	106.7	94.7	85.4	80.7	78.0
60°	165.9	189.5	197.6	171.7	138.0	110.8	94.5	83.3	76.4	73.4	70.7
62.5°	148.8	168.0	171.3	147.7	120.3	97.0	82.9	73.5	69.0	66.1	63.5
65°	123.4	137.3	135.7	116.6	95.2	77.0	66.8	61.0	57.6	53.5	49.0
67.5°	101.6	110.1	105.0	90.7	72.6	59.9	53.2	48.8	44.5	40.6	39.6
70°	87.8	92.7	87.3	74.1	59.6	50.2	44.8	39.6	37.1	36.2	34.5
72.5°	74.5	76.3	70.4	59.2	48.5	41.6	36.3	33.4	32.0	31.3	30.3
75°	55.9	54.7	49.7	40.9	33.7	29.0	27.3	26.3	25.3	24.6	24.1
77.5°	39.3	37.5	33.0	27.2	23.4	21.2	20.2	19.6	19.3	18.9	18.3
80°	29.5	28.3	23.8	19.4	17.8	16.7	16.2	15.4	15.4	15.1	14.6
82.5°	21.6	20.2	16.2	14.3	13.4	12.7	12.3	11.9	11.7	11.8	11.4
85°	11.3	9.2	8.1	7.8	7.2	6.8	7.1	6.7	6.7	6.7	6.5
87.5°	4.1	3.9	4.2	4.5	5.1	5.5	5.6	5.9	6.5	6.6	6.9
90°	3.3	5.7	8.1	10.5	12.5	14.2	15.9	17.7	19.4	20.4	21.5
92.5°	19.3	19.2	18.9	18.7	19.0	19.9	20.8	21.6	22.5	23.1	23.6
95°	55.8	48.8	41.7	34.5	31.8	33.3	34.8	36.3	37.8	38.9	39.9
97.5°	105.0	84.9	65.0	44.9	36.6	40.1	43.6	47.1	50.6	51.4	52.3
100°	142.0	112.5	83.0	53.6	40.6	44.3	47.9	51.6	55.2	57.0	58.7
102.5°	216.4	210.2	204.0	197.7	179.3	148.6	118.0	87.4	56.8	59.0	61.2
105°	301.0	307.5	313.9	320.4	294.3	235.5	176.7	117.9	59.1	61.5	63.8
107.5°	381.8	387.0	392.2	397.4	364.8	294.3	223.8	153.3	82.8	80.3	78.0
110°	433.8	438.3	442.8	447.3	418.5	356.3	294.1	231.8	169.6	148.1	126.5





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	482.9	486.9	490.9	495.0	489.3	473.9	458.5	443.1	427.7	349.2	270.6
115°	560.9	564.5	568.2	571.9	576.4	581.8	587.2	592.6	597.9	498.2	398.5
117.5°	631.3	635.3	639.4	643.6	647.5	651.1	654.8	658.5	662.3	638.1	614.0
120°	681.6	684.8	688.0	691.3	694.8	698.7	702.6	706.5	710.3	712.9	715.5
122.5°	725.2	728.6	732.0	735.4	739.2	743.4	747.6	751.9	756.1	757.6	759.1
125°	790.6	793.4	796.2	799.0	802.5	806.6	810.6	814.8	818.9	820.4	821.9
127.5°	850.8	853.9	857.1	860.2	863.2	866.3	869.3	872.4	875.4	877.7	879.8
130°	889.1	892.6	896.0	899.5	902.4	904.8	907.1	909.5	911.9	914.3	916.6
132.5°	927.4	930.3	933.3	936.2	938.8	941.2	943.6	945.9	948.3	950.3	952.4
135°	978.3	981.8	985.2	988.6	991.3	993.2	995.2	997.1	999.1	1001.2	1003.4
137.5°	1028.3	1030.6	1033.1	1035.5	1037.8	1040.0	1042.2	1044.3	1046.6	1048.7	1050.8
140°	1060.9	1062.6	1064.3	1066.0	1068.1	1070.5	1072.9	1075.2	1077.6	1079.5	1081.5
142.5°	1088.6	1090.2	1091.7	1093.3	1095.4	1098.1	1100.8	1103.5	1106.3	1108.0	1109.8
145°	1130.7	1130.4	1130.2	1130.0	1131.7	1135.4	1139.1	1142.7	1146.4	1147.9	1149.4
147.5°	1168.2	1167.4	1166.6	1165.8	1167.2	1170.8	1174.4	1178.1	1181.6	1182.8	1183.9
150°	1192.4	1190.9	1189.3	1187.8	1188.8	1192.2	1195.7	1199.1	1202.6	1203.9	1205.1
152.5°	1213.1	1211.4	1209.7	1208.1	1208.9	1212.1	1215.4	1218.7	1221.9	1223.3	1224.6
155°	1243.3	1241.3	1239.4	1237.5	1237.8	1240.4	1242.9	1245.5	1248.2	1249.4	1250.7
157.5°	1267.4	1265.7	1264.2	1262.5	1262.6	1264.4	1266.2	1268.0	1269.9	1271.3	1272.8
160°	1281.8	1280.4	1279.1	1277.9	1277.9	1279.1	1280.4	1281.8	1283.0	1284.3	1285.6
162.5°	1294.1	1292.8	1291.6	1290.2	1290.1	1291.3	1292.4	1293.6	1294.7	1296.1	1297.6
165°	1310.8	1309.5	1308.2	1306.9	1306.6	1307.3	1307.9	1308.5	1309.2	1310.7	1312.2
167.5°	1323.2	1321.9	1320.6	1319.3	1319.0	1319.6	1320.2	1320.8	1321.4	1322.9	1324.4
170°	1330.2	1328.9	1327.6	1326.3	1325.9	1326.3	1326.7	1327.1	1327.6	1329.1	1330.6
172.5°	1334.8	1333.6	1332.2	1330.9	1330.5	1330.9	1331.3	1331.8	1332.2	1333.7	1335.2
175°	1340.6	1339.1	1337.6	1336.1	1335.5	1336.0	1336.4	1336.9	1337.3	1338.8	1340.3
177.5°	1341.9	1340.7	1339.5	1338.2	1337.8	1337.9	1338.1	1338.2	1338.5	1339.7	1340.8
180°	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	517.8	517.8	517.8	517.8	517.8	517.8	517.8
2.5°	536.0	537.9	538.8	538.8	539.8	539.3	538.9
5°	566.8	570.2	571.0	574.2	576.6	575.8	576.2
7.5°	597.5	602.9	608.4	610.9	611.2	612.7	613.2
10°	616.3	620.8	629.2	628.0	634.3	637.9	632.0
12.5°	634.5	640.6	646.4	648.0	651.6	652.8	650.4
15°	650.9	654.1	654.4	653.6	654.7	653.7	650.3
17.5°	635.6	630.3	619.6	614.6	610.6	604.7	602.3
20°	610.2	594.7	576.7	569.5	561.1	544.5	548.5
22.5°	555.5	537.9	519.8	498.8	488.8	473.1	472.1
25°	470.4	440.0	406.5	383.1	369.4	353.8	346.9
27.5°	365.8	327.4	300.0	286.1	273.5	261.1	260.5
30°	296.9	268.2	246.9	235.0	227.3	222.0	223.2
32.5°	250.3	230.5	216.2	206.4	200.7	196.7	196.6
35°	204.6	191.1	181.9	177.8	173.6	170.8	171.0
37.5°	175.1	167.0	161.8	157.3	154.7	153.3	152.5
40°	159.9	153.3	149.3	146.6	144.5	142.5	142.1
42.5°	148.1	142.5	138.6	136.4	134.4	133.0	132.7
45°	131.3	126.8	123.3	120.9	120.0	118.7	118.7
47.5°	116.8	112.4	109.6	108.1	106.6	105.8	105.8
50°	107.1	103.6	101.2	100.2	98.9	98.5	98.2
52.5°	98.3	95.7	94.0	93.3	92.8	92.1	92.2
55°	86.3	84.9	84.2	83.7	82.8	81.7	82.4
57.5°	76.4	75.1	73.2	71.5	70.7	69.9	70.2
60°	69.3	66.8	64.2	62.3	61.7	60.1	60.1
62.5°	60.4	56.8	53.7	52.6	52.0	51.3	51.2
65°	46.4	45.0	44.3	43.6	43.2	43.2	42.9
67.5°	38.5	37.9	37.1	36.9	36.6	36.4	36.4
70°	34.0	33.3	33.0	32.7	32.4	32.6	32.0
72.5°	29.7	29.2	29.1	28.6	28.4	28.4	28.0
75°	23.4	23.4	23.2	23.1	22.7	22.5	22.7
77.5°	18.0	18.1	17.7	17.7	17.7	17.7	17.5
80°	14.4	14.6	14.4	14.2	14.0	14.2	14.0
82.5°	11.4	11.1	11.1	11.0	11.0	10.9	10.9
85°	6.5	6.7	6.5	6.3	6.3	6.3	6.5
87.5°	7.0	7.2	7.4	7.4	7.5	7.6	7.5
90°	22.6	23.7	24.5	24.9	25.3	25.7	26.1
92.5°	24.2	24.7	25.1	25.3	25.7	25.9	26.1
95°	41.0	42.1	42.5	42.3	42.1	41.9	41.7
97.5°	53.2	54.0	54.6	54.8	55.1	55.4	55.6
100°	60.4	62.1	63.2	63.6	64.1	64.5	65.0
102.5°	63.5	65.8	67.2	67.7	68.4	69.0	69.6
105°	66.2	68.6	70.2	71.1	71.9	72.8	73.7
107.5°	75.5	73.1	72.3	73.2	74.1	74.9	75.8
110°	105.0	83.4	73.1	74.0	74.9	75.7	76.5



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	192.1	113.5	74.5	75.3	76.0	76.6	77.3
115°	298.8	199.1	141.5	126.0	110.5	95.0	79.5
117.5°	589.9	565.8	528.2	477.3	426.4	375.4	324.4
120°	718.0	720.6	707.4	678.3	649.3	620.2	591.1
122.5°	760.7	762.2	760.2	754.6	748.9	743.3	737.6
125°	823.4	824.9	825.9	826.6	827.3	827.9	828.5
127.5°	882.0	884.2	885.4	885.5	885.7	885.7	885.9
130°	919.0	921.3	922.4	922.2	922.0	921.8	921.5
132.5°	954.3	956.4	957.3	957.1	956.9	956.6	956.5
135°	1005.5	1007.7	1008.5	1008.1	1007.7	1007.3	1006.9
137.5°	1052.9	1055.0	1055.7	1054.9	1054.2	1053.5	1052.7
140°	1083.4	1085.4	1085.8	1084.7	1083.6	1082.5	1081.5
142.5°	1111.6	1113.3	1113.6	1112.6	1111.5	1110.4	1109.4
145°	1150.9	1152.4	1152.6	1151.5	1150.5	1149.4	1148.3
147.5°	1185.0	1186.1	1186.2	1185.3	1184.4	1183.5	1182.6
150°	1206.5	1207.8	1207.8	1206.8	1205.7	1204.6	1203.6
152.5°	1225.8	1227.2	1227.1	1225.7	1224.2	1222.8	1221.4
155°	1252.0	1253.3	1253.1	1251.3	1249.7	1247.9	1246.2
157.5°	1274.2	1275.7	1275.6	1273.9	1272.2	1270.6	1268.8
160°	1286.9	1288.2	1288.1	1286.6	1285.1	1283.6	1282.1
162.5°	1299.0	1300.5	1300.3	1298.5	1296.6	1294.7	1292.9
165°	1313.7	1315.2	1315.2	1313.7	1312.2	1310.7	1309.2
167.5°	1325.9	1327.4	1327.2	1325.2	1323.3	1321.4	1319.5
170°	1332.1	1333.6	1333.4	1331.5	1329.5	1327.6	1325.6
172.5°	1336.7	1338.2	1338.1	1336.1	1334.2	1332.2	1330.3
175°	1341.8	1343.3	1343.0	1340.8	1338.7	1336.5	1334.4
177.5°	1342.0	1343.3	1343.1	1341.6	1340.0	1338.5	1336.9
180°	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2

(END OF REPORT)