

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: P331778-830

Luminaire Tested: **S122RDIW-S290D1240U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331778-830  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122RDIW-S290D1240U830-4F0-1E-UDD-A1  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1240 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

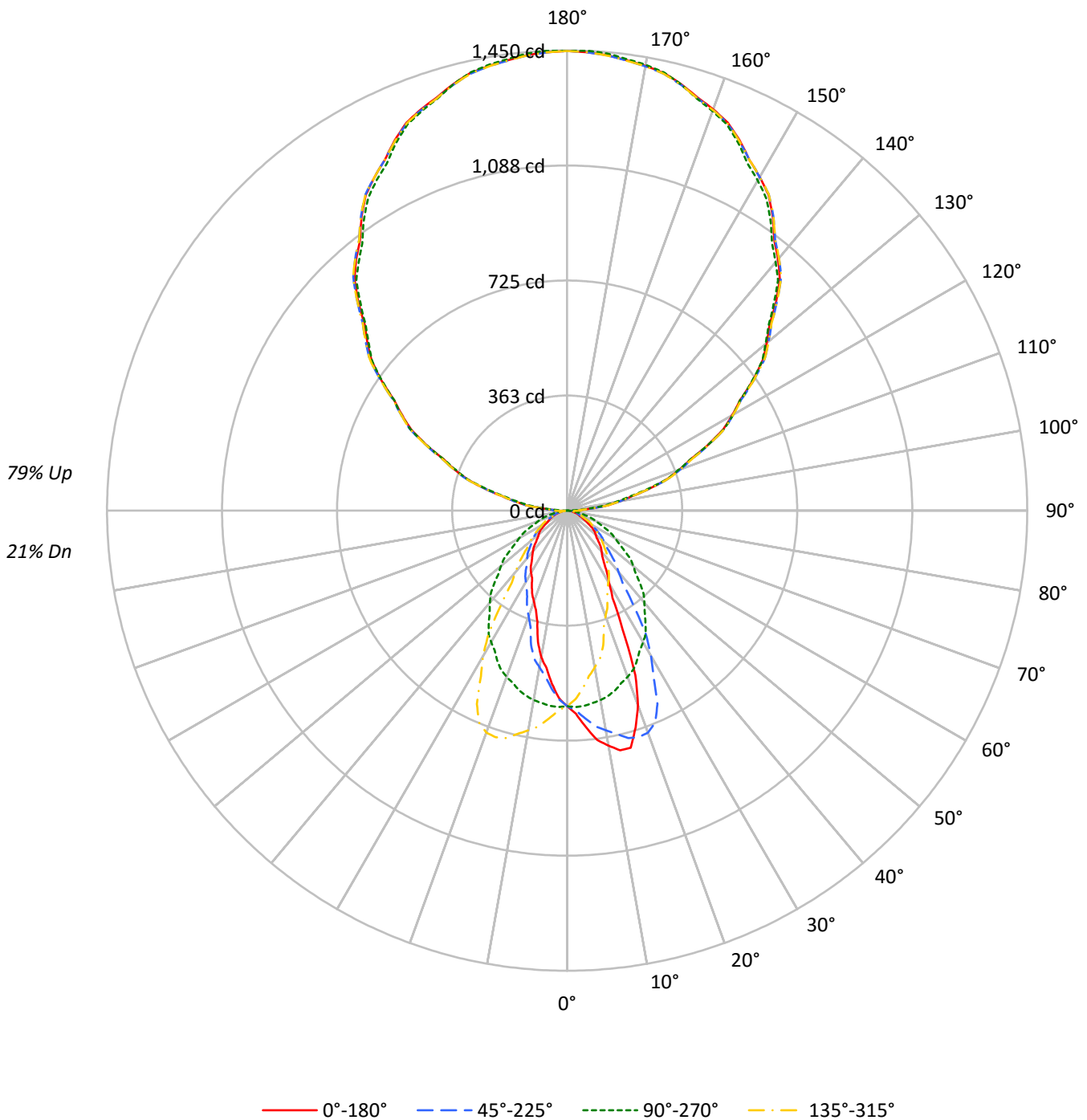
Lumens per Lamp: N/A  
Luminaire Lumens: 5120.2 lumens  
Efficiency: N/A  
Efficacy: 109.9 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 46.6  
Input Voltage (V): 120  
Input Current (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



TEST NUMBER: P331778-830

CATALOG NUMBER: S122RDIW-S290D1240U830-4F0-1E-UDD-A1

### Luminous Intensity Polar Plot





TEST NUMBER: P331778-830

CATALOG NUMBER: S122RDIW-S290D1240U830-4F0-1E-UDD-A1

**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	21
1	92	88	84	81	81	78	75	72	59	57	55	42	41	40	26	26	25	18
2	84	77	71	66	74	68	64	60	52	49	46	37	35	34	24	23	22	16
3	76	68	61	56	67	60	55	50	46	42	39	33	31	29	21	20	19	14
4	70	60	53	47	62	54	47	43	41	37	34	30	27	25	19	18	17	12
5	64	53	46	40	57	48	41	37	37	33	29	27	24	22	17	16	15	11
6	59	48	40	35	52	43	36	32	33	29	25	24	21	19	16	14	13	10
7	55	43	36	31	48	39	32	28	30	26	22	22	19	17	15	13	12	9
8	51	39	32	27	45	35	29	25	27	23	20	20	17	15	14	12	11	8
9	47	36	29	24	42	32	26	22	25	21	18	19	16	14	13	11	10	7
10	44	33	26	21	39	29	24	20	23	19	16	17	14	12	12	10	9	7

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

	0°	90°	180°	270°
0°	9947	9947	9947	9947
5°	11110	10010	8877	10010
10°	12329	9940	7694	9940
15°	12933	9795	6063	9795
20°	11213	9579	5246	9579
25°	7352	9283	4684	9283
30°	4950	8925	4238	8925
35°	4009	8474	3824	8474
40°	3564	7982	3539	7982
45°	3226	7405	3158	7405
50°	2936	6835	2926	6835
55°	2759	6201	2725	6201
60°	2309	5622	2283	5622
65°	1948	5104	2208	5104
70°	1799	4556	2082	4556
75°	1684	3968	1921	3968
80°	1553	3273	1711	3273
85°	1426	2575	1501	2575



TEST NUMBER: P331778-830

CATALOG NUMBER: S122RDIW-S290D1240U830-4F0-1E-UDD-A1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.4	1.1
10°-20°	162.8	3.2
20°-30°	209.7	4.1
30°-40°	199.3	3.9
40°-50°	170.7	3.3
50°-60°	130.0	2.5
60°-70°	82.2	1.6
70°-80°	41.0	0.8
80°-90°	16.5	0.3
90°-100°	91.8	1.8
100°-110°	285.0	5.6
110°-120°	487.2	9.5
120°-130°	640.7	12.5
130°-140°	719.1	14.0
140°-150°	705.1	13.8
150°-160°	591.4	11.5
160°-170°	392.2	7.7
170°-180°	137.1	2.7
0°-30°	430.9	8.4
0°-40°	630.2	12.3
0°-60°	931.0	18.2
0°-90°	1070.7	20.9
90°-120°	864.0	16.9
90°-150°	2928.8	57.2
90°-180°	4050.0	79.1
0°-180°	5120.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	616	616	616	616	616	
5°	686	618	548	618	686	68
15°	774	586	363	586	774	209
25°	413	521	263	521	413	196
35°	203	430	194	430	203	130
45°	141	324	138	324	141	109
55°	98	220	97	220	98	86
65°	51	134	58	134	51	52
75°	27	64	31	64	27	29
85°	8	14	8	14	8	9
90°	42	1	42	1	42	18
95°	76	64	76	64	76	84
105°	271	263	271	263	271	285
115°	489	489	489	489	489	483
125°	714	711	714	711	714	636
135°	931	920	931	920	931	717
145°	1129	1117	1129	1117	1129	705
155°	1287	1277	1287	1277	1287	592
165°	1391	1390	1391	1390	1391	392
175°	1441	1446	1441	1446	1441	137
180°	1448	1448	1448	1448	1448	



TEST NUMBER: P331778-830

CATALOG NUMBER: S122RDIW-S290D1240U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1
2.5°	641.2	641.7	642.2	641.0	641.0	640.0	637.7	636.0	631.2	630.6	630.6
5°	685.5	685.1	686.0	683.2	679.4	678.4	674.4	669.0	663.5	657.3	656.0
7.5°	729.6	729.0	727.3	726.8	723.9	717.4	710.9	703.9	694.7	685.6	681.1
10°	752.0	759.0	754.7	747.2	748.7	738.7	733.3	724.1	716.3	702.9	699.9
12.5°	773.8	776.7	775.2	771.0	769.1	762.1	754.9	746.9	732.6	720.6	710.0
15°	773.7	777.8	778.9	777.6	778.6	778.3	774.4	767.8	755.4	742.1	730.5
17.5°	716.6	719.4	726.5	731.2	737.3	749.9	756.2	758.6	756.8	749.1	741.0
20°	652.6	647.9	667.6	677.6	686.2	707.6	726.0	733.1	744.4	744.2	742.1
22.5°	561.8	562.9	581.5	593.5	618.5	640.0	660.9	687.5	709.5	724.0	732.4
25°	412.7	420.9	439.5	455.8	483.6	523.5	559.7	601.6	641.2	672.5	702.3
27.5°	310.0	310.7	325.4	340.4	356.9	389.6	435.2	485.2	541.7	588.3	641.9
30°	265.5	264.2	270.4	279.7	293.8	319.1	353.3	402.5	458.8	529.0	591.5
32.5°	233.9	234.0	238.7	245.5	257.2	274.3	297.7	337.8	391.0	460.1	533.3
35°	203.4	203.2	206.6	211.5	216.4	227.3	243.5	264.4	301.0	365.4	440.4
37.5°	181.4	182.4	184.1	187.2	192.6	198.7	208.3	222.4	248.5	286.6	349.6
40°	169.1	169.6	171.9	174.5	177.7	182.4	190.3	201.7	220.7	251.1	297.2
42.5°	157.9	158.3	159.9	162.3	164.9	169.6	176.2	186.0	201.4	225.1	263.1
45°	141.3	141.3	142.8	143.8	146.7	150.9	156.3	164.5	175.1	192.7	217.9
47.5°	125.8	125.8	126.9	128.7	130.4	133.7	139.0	145.7	153.4	167.0	188.6
50°	116.9	117.2	117.7	119.2	120.4	123.3	127.4	133.2	141.3	151.8	169.8
52.5°	109.7	109.6	110.4	111.0	111.8	113.9	117.0	122.1	129.3	138.5	153.4
55°	98.0	97.2	98.5	99.5	100.2	101.0	102.7	105.9	112.2	119.9	131.0
57.5°	83.5	83.1	84.1	85.0	87.1	89.4	90.9	92.8	96.0	101.6	112.6
60°	71.5	71.5	73.4	74.1	76.4	79.5	82.5	84.2	87.4	91.0	99.2
62.5°	60.9	61.1	61.9	62.6	63.9	67.6	71.8	75.6	78.6	82.1	87.5
65°	51.0	51.4	51.4	51.8	52.7	53.5	55.2	58.2	63.6	68.5	72.6
67.5°	43.3	43.4	43.5	43.9	44.1	45.1	45.8	47.1	48.4	53.0	58.1
70°	38.1	38.7	38.5	38.9	39.2	39.6	40.4	41.1	43.1	44.1	47.1
72.5°	33.3	33.7	33.7	34.0	34.6	34.7	35.3	36.0	37.2	38.1	39.8
75°	27.0	26.8	27.0	27.4	27.6	27.8	27.8	28.7	29.3	30.2	31.3
77.5°	20.8	21.0	21.0	21.0	21.1	21.5	21.4	21.8	22.4	22.9	23.4
80°	16.7	16.9	16.7	16.9	17.2	17.3	17.2	17.3	18.0	18.4	18.4
82.5°	12.9	13.0	13.1	13.1	13.2	13.2	13.6	13.6	14.0	13.9	14.1
85°	7.7	7.5	7.5	7.5	7.7	7.9	7.7	7.7	7.9	7.9	7.9
87.5°	11.0	11.1	11.1	11.0	11.0	11.0	11.1	11.4	11.4	11.6	10.3
90°	41.6	41.3	41.0	40.7	40.4	40.6	41.2	41.7	42.2	42.8	36.8
92.5°	39.6	39.6	39.5	39.4	39.4	39.3	39.2	39.1	38.9	38.8	37.4
95°	75.8	76.3	76.8	77.4	77.9	78.2	78.2	78.2	78.2	78.2	77.7
97.5°	131.3	131.3	131.4	131.4	131.5	131.5	131.5	131.5	131.5	131.5	130.4
100°	167.4	167.7	168.0	168.2	168.5	168.6	168.6	168.6	168.6	168.6	167.9
102.5°	208.5	208.8	209.1	209.3	209.6	209.6	209.4	209.2	209.0	208.8	207.7
105°	271.4	271.4	271.4	271.4	271.4	271.1	270.5	269.9	269.4	268.9	268.3
107.5°	330.5	331.7	333.0	334.2	335.5	336.0	335.7	335.5	335.4	335.1	335.1
110°	376.5	377.2	378.1	378.9	379.7	380.1	380.1	380.1	380.1	380.1	380.1



TEST NUMBER: P331778-830

CATALOG NUMBER: S122RDIW-S290D1240U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	420.4	421.0	421.6	422.2	422.8	423.4	424.0	424.7	425.4	426.0	426.2
115°	488.9	489.7	490.5	491.3	492.1	492.7	492.9	493.2	493.5	493.7	494.3
117.5°	554.1	555.0	555.7	556.6	557.4	558.1	558.7	559.4	560.1	560.7	562.2
120°	600.1	600.9	601.7	602.5	603.3	603.7	603.7	603.7	603.7	603.7	605.9
122.5°	645.1	645.6	646.2	646.9	647.4	648.1	648.8	649.4	650.0	650.6	652.1
125°	713.7	714.0	714.3	714.5	714.8	715.4	716.1	717.0	717.8	718.6	719.4
127.5°	776.3	777.2	778.1	778.9	779.8	780.7	781.7	782.7	783.6	784.6	785.6
130°	821.2	822.4	823.5	824.5	825.7	826.4	827.0	827.6	828.0	828.6	829.2
132.5°	864.3	865.2	866.0	867.0	867.8	868.8	870.0	871.2	872.4	873.5	873.5
135°	931.2	932.1	932.9	933.7	934.5	935.1	935.4	935.7	935.9	936.1	935.7
137.5°	991.9	993.0	994.1	995.1	996.3	996.9	997.1	997.3	997.6	997.8	997.0
140°	1034.0	1035.0	1036.1	1037.2	1038.3	1038.8	1038.8	1038.8	1038.8	1038.8	1037.5
142.5°	1072.0	1073.2	1074.2	1075.3	1076.4	1076.9	1076.7	1076.4	1076.2	1076.0	1075.1
145°	1129.3	1130.4	1131.4	1132.6	1133.6	1134.0	1133.8	1133.5	1133.2	1132.9	1131.3
147.5°	1180.3	1181.4	1182.4	1183.5	1184.5	1184.7	1184.1	1183.5	1182.9	1182.3	1181.2
150°	1213.6	1214.4	1215.2	1216.1	1216.8	1216.8	1216.1	1215.2	1214.4	1213.6	1212.5
152.5°	1244.9	1245.9	1247.0	1247.9	1249.0	1249.0	1247.9	1247.0	1245.9	1244.9	1243.6
155°	1286.9	1287.7	1288.5	1289.4	1290.2	1289.9	1288.5	1287.2	1285.8	1284.5	1283.6
157.5°	1323.0	1324.4	1325.7	1327.0	1328.3	1328.0	1326.2	1324.4	1322.5	1320.7	1320.1
160°	1345.6	1346.7	1347.7	1348.9	1349.9	1349.6	1348.0	1346.4	1344.7	1343.1	1342.8
162.5°	1365.2	1366.4	1367.7	1369.0	1370.4	1370.1	1368.2	1366.4	1364.5	1362.7	1362.4
165°	1390.8	1392.1	1393.5	1394.9	1396.2	1396.0	1394.0	1392.1	1390.3	1388.4	1388.4
167.5°	1411.8	1413.2	1414.7	1416.1	1417.5	1417.2	1415.3	1413.4	1411.6	1409.6	1409.7
170°	1422.6	1424.2	1425.9	1427.5	1429.1	1429.0	1427.0	1425.1	1423.2	1421.4	1421.6
172.5°	1431.3	1433.0	1434.6	1436.2	1437.8	1437.8	1435.9	1434.0	1432.1	1430.1	1430.4
175°	1440.9	1442.6	1444.2	1445.8	1447.5	1447.3	1445.4	1443.5	1441.6	1439.6	1440.2
177.5°	1445.3	1446.6	1447.9	1449.3	1450.5	1450.5	1449.3	1447.9	1446.6	1445.3	1445.8
180°	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2



TEST NUMBER: P331778-830

CATALOG NUMBER: S122RDIW-S290D1240U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1
2.5°	630.9	629.5	628.3	625.3	623.7	620.3	619.8	619.6	615.2	610.9	609.6
5°	652.6	649.1	644.0	638.0	631.8	625.4	621.1	617.6	609.1	601.0	596.3
7.5°	674.4	667.0	658.2	646.9	637.3	626.8	618.9	611.8	599.6	588.0	580.1
10°	690.7	678.7	666.9	651.3	639.0	627.1	616.0	606.3	592.7	577.2	566.3
12.5°	700.8	687.6	671.4	656.1	640.3	625.0	610.1	597.8	581.6	565.7	552.8
15°	714.4	700.3	680.6	658.7	638.5	618.5	601.4	586.0	565.1	545.9	530.1
17.5°	725.7	706.2	685.0	659.8	636.2	611.0	588.9	569.2	545.8	522.8	504.2
20°	729.2	709.9	685.5	660.3	632.4	602.7	578.9	557.5	532.4	507.4	486.0
22.5°	727.0	712.0	684.9	654.6	626.1	595.0	568.2	543.3	515.5	489.9	465.1
25°	711.9	706.7	681.1	648.1	615.6	579.4	548.3	521.1	489.5	462.0	435.1
27.5°	676.7	687.8	671.8	636.7	600.5	561.8	526.8	495.9	463.0	432.2	405.3
30°	642.7	668.2	661.4	628.8	588.3	550.3	511.0	478.7	443.7	411.9	385.4
32.5°	596.3	638.4	645.1	617.8	576.0	534.1	493.0	460.9	424.2	390.9	365.0
35°	522.4	585.3	614.3	596.9	555.0	509.7	467.4	429.9	393.0	360.1	334.4
37.5°	434.2	520.0	568.2	569.4	530.8	483.9	437.7	400.5	362.8	330.5	302.7
40°	377.0	470.0	532.7	546.6	514.1	463.4	416.6	378.7	342.0	310.2	278.3
42.5°	325.6	418.2	495.3	519.5	493.7	443.3	396.4	356.8	321.0	291.1	258.4
45°	263.3	344.3	429.2	472.5	458.2	411.5	362.0	324.3	290.8	264.9	233.6
47.5°	222.2	279.2	361.5	419.9	419.7	377.1	328.4	292.4	261.2	236.9	211.6
50°	198.7	248.4	317.9	384.3	389.8	354.1	307.8	272.1	243.0	217.5	197.2
52.5°	177.6	218.6	281.1	344.8	360.6	329.6	284.7	251.8	223.5	200.0	182.7
55°	150.1	181.8	229.3	288.8	312.8	291.0	251.1	220.3	197.4	177.7	162.7
57.5°	127.0	150.7	188.9	236.8	264.7	251.0	218.1	193.0	173.4	155.6	143.8
60°	112.4	131.9	164.2	204.2	235.1	225.5	197.4	174.1	157.4	141.9	130.8
62.5°	98.7	115.5	143.2	175.7	203.9	199.9	177.0	157.4	142.8	128.8	119.3
65°	79.5	91.6	113.3	138.7	161.5	163.3	146.8	133.6	120.6	109.4	101.0
67.5°	63.2	71.3	86.4	107.9	124.9	131.0	120.9	110.7	100.4	91.8	84.5
70°	53.3	59.8	70.9	88.2	103.9	110.3	104.4	96.5	87.6	80.5	74.3
72.5°	43.2	49.5	57.7	70.4	83.8	90.8	88.7	83.0	75.8	69.8	64.0
75°	32.5	34.5	40.1	48.6	59.1	65.1	66.5	63.6	57.8	53.3	49.9
77.5°	24.0	25.3	27.9	32.3	39.2	44.6	46.8	46.4	42.4	39.9	36.6
80°	19.2	19.9	21.2	23.1	28.3	33.6	35.2	35.2	32.3	31.3	28.1
82.5°	14.6	15.1	15.9	17.0	19.3	24.0	25.7	26.0	24.3	22.9	20.4
85°	8.4	8.1	8.6	9.2	9.6	10.9	13.5	13.9	13.5	11.8	11.1
87.5°	9.0	8.0	6.9	5.7	5.3	4.8	5.0	5.2	5.2	5.3	5.7
90°	30.8	24.9	18.9	14.2	11.0	7.7	4.5	1.2	4.5	7.7	11.0
92.5°	36.0	34.6	33.2	31.3	28.9	26.6	24.1	21.8	24.1	26.6	28.9
95°	77.1	76.6	76.1	74.5	71.7	69.0	66.3	63.5	66.3	69.0	71.7
97.5°	129.4	128.4	127.3	125.6	123.3	120.9	118.5	116.1	118.5	120.9	123.3
100°	167.0	166.2	165.4	163.9	161.7	159.6	157.4	155.2	157.4	159.6	161.7
102.5°	206.7	205.7	204.6	203.2	201.5	199.7	198.0	196.2	198.0	199.7	201.5
105°	267.8	267.2	266.7	266.0	265.2	264.4	263.5	262.8	263.5	264.4	265.2
107.5°	335.1	335.1	335.1	334.5	333.3	332.2	330.9	329.7	330.9	332.2	333.3
110°	380.1	380.1	380.1	379.3	377.7	376.0	374.4	372.8	374.4	376.0	377.7





TEST NUMBER: P331778-830

CATALOG NUMBER: S122RDIW-S290D1240U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	426.5	426.7	426.9	426.2	424.6	422.9	421.3	419.7	421.3	422.9	424.6
115°	494.8	495.4	495.9	495.4	493.7	492.1	490.5	488.9	490.5	492.1	493.7
117.5°	563.7	565.2	566.8	566.5	564.3	562.1	560.0	557.8	560.0	562.1	564.3
120°	608.1	610.3	612.5	612.5	610.3	608.1	605.9	603.7	605.9	608.1	610.3
122.5°	653.7	655.3	656.8	656.2	653.6	651.0	648.4	645.7	648.4	651.0	653.6
125°	720.3	721.0	721.9	721.0	718.6	716.1	713.7	711.2	713.7	716.1	718.6
127.5°	786.6	787.6	788.5	787.5	784.4	781.3	778.2	775.1	778.2	781.3	784.4
130°	829.7	830.3	830.8	829.2	825.8	822.3	818.7	815.2	818.7	822.3	825.8
132.5°	873.4	873.3	873.2	871.7	868.7	865.9	863.0	860.2	863.0	865.9	868.7
135°	935.1	934.5	934.0	932.3	929.3	926.2	923.2	920.3	923.2	926.2	929.3
137.5°	996.4	995.6	994.9	993.3	990.9	988.4	986.0	983.5	986.0	988.4	990.9
140°	1036.1	1034.7	1033.4	1031.5	1029.1	1026.6	1024.2	1021.7	1024.2	1026.6	1029.1
142.5°	1074.1	1073.2	1072.2	1070.6	1068.2	1065.7	1063.3	1060.8	1063.3	1065.7	1068.2
145°	1129.6	1128.0	1126.4	1124.6	1122.8	1120.9	1119.0	1117.0	1119.0	1120.9	1122.8
147.5°	1180.2	1179.0	1178.0	1176.3	1174.0	1171.7	1169.4	1167.2	1169.4	1171.7	1174.0
150°	1211.4	1210.3	1209.3	1207.9	1206.3	1204.7	1203.0	1201.4	1203.0	1204.7	1206.3
152.5°	1242.3	1241.0	1239.6	1238.2	1236.5	1234.9	1233.3	1231.7	1233.3	1234.9	1236.5
155°	1282.8	1282.0	1281.2	1280.4	1279.6	1278.7	1278.0	1277.1	1278.0	1278.7	1279.6
157.5°	1319.7	1319.2	1318.7	1318.1	1317.7	1317.1	1316.5	1316.0	1316.5	1317.1	1317.7
160°	1342.6	1342.3	1342.1	1341.6	1341.1	1340.6	1340.0	1339.4	1340.0	1340.6	1341.1
162.5°	1362.2	1361.9	1361.6	1361.4	1361.3	1361.2	1361.1	1360.9	1361.1	1361.2	1361.3
165°	1388.4	1388.4	1388.4	1388.5	1388.7	1389.0	1389.3	1389.6	1389.3	1389.0	1388.7
167.5°	1409.8	1409.8	1409.9	1410.2	1411.1	1411.9	1412.7	1413.5	1412.7	1411.9	1411.1
170°	1421.9	1422.2	1422.5	1423.0	1423.8	1424.7	1425.4	1426.3	1425.4	1424.7	1423.8
172.5°	1430.7	1431.0	1431.3	1431.8	1432.6	1433.4	1434.3	1435.0	1434.3	1433.4	1432.6
175°	1440.8	1441.3	1441.9	1442.6	1443.3	1444.2	1445.0	1445.8	1445.0	1444.2	1443.3
177.5°	1446.1	1446.6	1447.1	1447.6	1448.2	1448.9	1449.5	1450.2	1449.5	1448.9	1448.2
180°	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2



TEST NUMBER: P331778-830

CATALOG NUMBER: S122RDIW-S290D1240U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1
2.5°	607.5	606.2	604.0	600.6	598.5	594.9	592.6	593.9	594.3	593.9	593.6
5°	591.2	586.6	580.4	574.4	568.8	562.9	559.4	558.0	555.0	553.3	552.3
7.5°	571.4	563.6	554.9	544.4	535.6	526.2	521.5	519.2	513.0	509.7	506.8
10°	556.7	544.4	535.6	522.0	513.6	501.4	493.0	493.3	484.9	480.2	476.8
12.5°	540.4	527.0	512.4	500.0	488.4	478.6	468.5	464.5	455.6	451.1	441.9
15°	513.4	497.8	482.4	465.7	453.9	438.7	424.1	406.3	392.0	379.6	376.2
17.5°	484.0	464.6	449.1	429.5	409.3	383.8	366.9	356.6	348.0	341.4	336.5
20°	463.7	444.0	427.5	398.0	370.8	353.5	341.1	333.1	324.1	317.1	313.2
22.5°	442.5	422.0	399.4	366.5	345.3	331.4	320.4	311.2	305.1	299.6	296.1
25°	412.4	389.8	352.8	330.2	313.0	298.4	290.8	285.2	278.8	271.3	267.9
27.5°	380.5	344.8	318.1	301.2	284.9	275.5	268.5	260.2	254.5	251.1	247.5
30°	356.7	320.9	300.2	281.7	270.2	259.7	251.6	246.9	241.3	235.5	233.2
32.5°	330.2	301.6	281.6	266.4	254.6	245.6	239.2	231.6	227.6	224.0	219.1
35°	297.2	275.5	257.3	245.0	233.8	226.5	219.0	214.5	207.3	204.2	202.4
37.5°	269.3	250.5	237.0	223.9	215.0	207.0	202.4	195.2	192.1	187.8	183.8
40°	253.4	235.1	222.1	211.3	201.4	195.5	189.7	183.9	179.2	177.3	172.4
42.5°	237.4	222.4	209.3	197.7	191.1	184.6	177.4	173.1	168.2	165.1	162.1
45°	215.2	201.9	190.8	181.2	173.8	167.2	162.5	155.4	152.7	146.5	143.8
47.5°	195.7	183.3	172.7	163.5	156.5	152.1	145.2	139.7	135.3	131.4	128.1
50°	181.8	171.4	161.2	153.1	146.7	140.4	133.4	130.6	123.8	121.8	119.9
52.5°	169.1	159.3	150.0	141.9	135.5	129.5	123.3	119.6	115.0	113.1	111.7
55°	151.4	141.9	133.0	125.9	119.5	113.3	109.4	104.9	102.7	101.2	99.5
57.5°	133.6	125.1	118.2	111.0	104.5	99.6	95.2	92.5	90.3	88.3	86.2
60°	122.2	114.1	107.9	101.2	94.6	90.6	87.2	83.9	81.3	78.3	77.5
62.5°	110.3	103.1	97.5	91.0	85.2	81.5	78.2	75.2	72.1	67.8	66.5
65°	93.8	88.2	82.2	76.8	71.7	68.1	63.3	59.9	58.6	58.2	58.1
67.5°	78.9	73.6	68.4	63.0	58.3	55.0	52.5	52.0	51.1	50.9	50.2
70°	68.9	64.0	58.9	53.7	49.2	48.6	47.8	46.8	45.8	45.4	45.0
72.5°	60.0	55.0	49.8	45.7	43.7	43.0	42.1	41.2	40.5	40.1	39.9
75°	46.0	41.3	37.9	36.4	35.3	34.7	33.4	32.8	32.3	31.7	31.5
77.5°	33.2	30.4	28.9	28.0	26.9	26.2	25.4	24.8	24.3	24.2	23.8
80°	25.3	23.9	22.9	21.6	21.2	20.4	20.2	19.5	19.7	19.0	19.0
82.5°	19.6	18.0	17.1	16.5	16.0	15.4	15.2	14.9	14.9	14.4	14.4
85°	10.1	9.6	9.2	8.8	8.8	8.1	8.4	8.1	8.1	7.7	7.5
87.5°	6.1	6.9	7.7	8.9	10.1	11.1	11.0	10.7	10.7	10.6	10.3
90°	14.2	18.9	24.9	30.8	36.8	42.8	42.2	41.7	41.2	40.6	40.4
92.5°	31.3	33.2	34.6	36.0	37.4	38.8	38.9	39.1	39.2	39.3	39.4
95°	74.5	76.1	76.6	77.1	77.7	78.2	78.2	78.2	78.2	78.2	77.9
97.5°	125.6	127.3	128.4	129.4	130.4	131.5	131.5	131.5	131.5	131.5	131.5
100°	163.9	165.4	166.2	167.0	167.9	168.6	168.6	168.6	168.6	168.6	168.5
102.5°	203.2	204.6	205.7	206.7	207.7	208.8	209.0	209.2	209.4	209.6	209.6
105°	266.0	266.7	267.2	267.8	268.3	268.9	269.4	269.9	270.5	271.1	271.4
107.5°	334.5	335.1	335.1	335.1	335.1	335.1	335.4	335.5	335.7	336.0	335.5
110°	379.3	380.1	380.1	380.1	380.1	380.1	380.1	380.1	380.1	380.1	379.7



TEST NUMBER: P331778-830

CATALOG NUMBER: S122RDIW-S290D1240U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	426.2	426.9	426.7	426.5	426.2	426.0	425.4	424.7	424.0	423.4	422.8
115°	495.4	495.9	495.4	494.8	494.3	493.7	493.5	493.2	492.9	492.7	492.1
117.5°	566.5	566.8	565.2	563.7	562.2	560.7	560.1	559.4	558.7	558.1	557.4
120°	612.5	612.5	610.3	608.1	605.9	603.7	603.7	603.7	603.7	603.7	603.3
122.5°	656.2	656.8	655.3	653.7	652.1	650.6	650.0	649.4	648.8	648.1	647.4
125°	721.0	721.9	721.0	720.3	719.4	718.6	717.8	717.0	716.1	715.4	714.8
127.5°	787.5	788.5	787.6	786.6	785.6	784.6	783.6	782.7	781.7	780.7	779.8
130°	829.2	830.8	830.3	829.7	829.2	828.6	828.0	827.6	827.0	826.4	825.7
132.5°	871.7	873.2	873.3	873.4	873.5	873.5	872.4	871.2	870.0	868.8	867.8
135°	932.3	934.0	934.5	935.1	935.7	936.1	935.9	935.7	935.4	935.1	934.5
137.5°	993.3	994.9	995.6	996.4	997.0	997.8	997.6	997.3	997.1	996.9	996.3
140°	1031.5	1033.4	1034.7	1036.1	1037.5	1038.8	1038.8	1038.8	1038.8	1038.8	1038.3
142.5°	1070.6	1072.2	1073.2	1074.1	1075.1	1076.0	1076.2	1076.4	1076.7	1076.9	1076.4
145°	1124.6	1126.4	1128.0	1129.6	1131.3	1132.9	1133.2	1133.5	1133.8	1134.0	1133.6
147.5°	1176.3	1178.0	1179.0	1180.2	1181.2	1182.3	1182.9	1183.5	1184.1	1184.7	1184.5
150°	1207.9	1209.3	1210.3	1211.4	1212.5	1213.6	1214.4	1215.2	1216.1	1216.8	1216.8
152.5°	1238.2	1239.6	1241.0	1242.3	1243.6	1244.9	1245.9	1247.0	1247.9	1249.0	1249.0
155°	1280.4	1281.2	1282.0	1282.8	1283.6	1284.5	1285.8	1287.2	1288.5	1289.9	1290.2
157.5°	1318.1	1318.7	1319.2	1319.7	1320.1	1320.7	1322.5	1324.4	1326.2	1328.0	1328.3
160°	1341.6	1342.1	1342.3	1342.6	1342.8	1343.1	1344.7	1346.4	1348.0	1349.6	1349.9
162.5°	1361.4	1361.6	1361.9	1362.2	1362.4	1362.7	1364.5	1366.4	1368.2	1370.1	1370.4
165°	1388.5	1388.4	1388.4	1388.4	1388.4	1388.4	1390.3	1392.1	1394.0	1396.0	1396.2
167.5°	1410.2	1409.9	1409.8	1409.8	1409.7	1409.6	1411.6	1413.4	1415.3	1417.2	1417.5
170°	1423.0	1422.5	1422.2	1421.9	1421.6	1421.4	1423.2	1425.1	1427.0	1429.0	1429.1
172.5°	1431.8	1431.3	1431.0	1430.7	1430.4	1430.1	1432.1	1434.0	1435.9	1437.8	1437.8
175°	1442.6	1441.9	1441.3	1440.8	1440.2	1439.6	1441.6	1443.5	1445.4	1447.3	1447.5
177.5°	1447.6	1447.1	1446.6	1446.1	1445.8	1445.3	1446.6	1447.9	1449.3	1450.5	1450.5
180°	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2



TEST NUMBER: P331778-830

CATALOG NUMBER: S122RDIW-S290D1240U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1
2.5°	591.7	592.0	591.5	591.8	591.5	592.0	591.7	593.6	593.9	594.3	593.9
5°	551.3	548.7	548.3	547.7	548.3	548.7	551.3	552.3	553.3	555.0	558.0
7.5°	503.1	502.8	501.6	500.1	501.6	502.8	503.1	506.8	509.7	513.0	519.2
10°	472.1	471.0	470.8	469.3	470.8	471.0	472.1	476.8	480.2	484.9	493.3
12.5°	435.7	428.9	428.2	424.4	428.2	428.9	435.7	441.9	451.1	455.6	464.5
15°	371.1	369.8	365.4	362.7	365.4	369.8	371.1	376.2	379.6	392.0	406.3
17.5°	334.0	329.8	328.5	327.9	328.5	329.8	334.0	336.5	341.4	348.0	356.6
20°	310.2	306.4	305.8	305.3	305.8	306.4	310.2	313.2	317.1	324.1	333.1
22.5°	293.8	289.7	288.1	286.8	288.1	289.7	293.8	296.1	299.6	305.1	311.2
25°	265.7	264.2	263.3	262.9	263.3	264.2	265.7	267.9	271.3	278.8	285.2
27.5°	243.7	240.4	239.8	238.7	239.8	240.4	243.7	247.5	251.1	254.5	260.2
30°	231.2	230.2	228.7	227.3	228.7	230.2	231.2	233.2	235.5	241.3	246.9
32.5°	216.5	215.6	214.2	213.7	214.2	215.6	216.5	219.1	224.0	227.6	231.6
35°	200.2	197.2	195.9	194.0	195.9	197.2	200.2	202.4	204.2	207.3	214.5
37.5°	182.9	181.3	179.6	180.2	179.6	181.3	182.9	183.8	187.8	192.1	195.2
40°	169.6	168.5	168.1	167.9	168.1	168.5	169.6	172.4	177.3	179.2	183.9
42.5°	158.9	156.0	154.9	154.9	154.9	156.0	158.9	162.1	165.1	168.2	173.1
45°	142.8	140.1	138.1	138.3	138.1	140.1	142.8	143.8	146.5	152.7	155.4
47.5°	126.3	126.2	125.0	125.4	125.0	126.2	126.3	128.1	131.4	135.3	139.7
50°	118.4	117.2	116.2	116.5	116.2	117.2	118.4	119.9	121.8	123.8	130.6
52.5°	110.8	109.7	109.1	110.0	109.1	109.7	110.8	111.7	113.1	115.0	119.6
55°	98.5	97.2	97.0	96.8	97.0	97.2	98.5	99.5	101.2	102.7	104.9
57.5°	84.6	83.8	82.5	82.0	82.5	83.8	84.6	86.2	88.3	90.3	92.5
60°	74.7	73.0	70.9	70.7	70.9	73.0	74.7	77.5	78.3	81.3	83.9
62.5°	65.6	65.3	64.8	64.8	64.8	65.3	65.6	66.5	67.8	72.1	75.2
65°	57.6	57.4	57.6	57.8	57.6	57.4	57.6	58.1	58.2	58.6	59.9
67.5°	50.1	49.8	49.4	49.6	49.4	49.8	50.1	50.2	50.9	51.1	52.0
70°	44.5	44.3	44.1	44.1	44.1	44.3	44.5	45.0	45.4	45.8	46.8
72.5°	39.0	39.0	38.8	38.6	38.8	39.0	39.0	39.9	40.1	40.5	41.2
75°	31.3	30.8	30.8	30.8	30.8	30.8	31.3	31.5	31.7	32.3	32.8
77.5°	23.8	23.6	23.4	23.2	23.4	23.6	23.8	23.8	24.2	24.3	24.8
80°	18.9	18.7	18.4	18.4	18.4	18.7	18.9	19.0	19.0	19.7	19.5
82.5°	14.4	14.1	14.1	13.9	14.1	14.1	14.4	14.4	14.4	14.9	14.9
85°	7.7	7.9	7.7	8.1	7.7	7.9	7.7	7.5	7.7	8.1	8.1
87.5°	10.4	10.3	10.5	10.4	10.5	10.3	10.4	10.3	10.6	10.7	10.7
90°	40.7	41.0	41.3	41.6	41.3	41.0	40.7	40.4	40.6	41.2	41.7
92.5°	39.4	39.5	39.6	39.6	39.6	39.5	39.4	39.4	39.3	39.2	39.1
95°	77.4	76.8	76.3	75.8	76.3	76.8	77.4	77.9	78.2	78.2	78.2
97.5°	131.4	131.4	131.3	131.3	131.3	131.4	131.4	131.5	131.5	131.5	131.5
100°	168.2	168.0	167.7	167.4	167.7	168.0	168.2	168.5	168.6	168.6	168.6
102.5°	209.3	209.1	208.8	208.5	208.8	209.1	209.3	209.6	209.6	209.4	209.2
105°	271.4	271.4	271.4	271.4	271.4	271.4	271.4	271.4	271.1	270.5	269.9
107.5°	334.2	333.0	331.7	330.5	331.7	333.0	334.2	335.5	336.0	335.7	335.5
110°	378.9	378.1	377.2	376.5	377.2	378.1	378.9	379.7	380.1	380.1	380.1



TEST NUMBER: P331778-830

CATALOG NUMBER: S122RDIW-S290D1240U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	422.2	421.6	421.0	420.4	421.0	421.6	422.2	422.8	423.4	424.0	424.7
115°	491.3	490.5	489.7	488.9	489.7	490.5	491.3	492.1	492.7	492.9	493.2
117.5°	556.6	555.7	555.0	554.1	555.0	555.7	556.6	557.4	558.1	558.7	559.4
120°	602.5	601.7	600.9	600.1	600.9	601.7	602.5	603.3	603.7	603.7	603.7
122.5°	646.9	646.2	645.6	645.1	645.6	646.2	646.9	647.4	648.1	648.8	649.4
125°	714.5	714.3	714.0	713.7	714.0	714.3	714.5	714.8	715.4	716.1	717.0
127.5°	778.9	778.1	777.2	776.3	777.2	778.1	778.9	779.8	780.7	781.7	782.7
130°	824.5	823.5	822.4	821.2	822.4	823.5	824.5	825.7	826.4	827.0	827.6
132.5°	867.0	866.0	865.2	864.3	865.2	866.0	867.0	867.8	868.8	870.0	871.2
135°	933.7	932.9	932.1	931.2	932.1	932.9	933.7	934.5	935.1	935.4	935.7
137.5°	995.1	994.1	993.0	991.9	993.0	994.1	995.1	996.3	996.9	997.1	997.3
140°	1037.2	1036.1	1035.0	1034.0	1035.0	1036.1	1037.2	1038.3	1038.8	1038.8	1038.8
142.5°	1075.3	1074.2	1073.2	1072.0	1073.2	1074.2	1075.3	1076.4	1076.9	1076.7	1076.4
145°	1132.6	1131.4	1130.4	1129.3	1130.4	1131.4	1132.6	1133.6	1134.0	1133.8	1133.5
147.5°	1183.5	1182.4	1181.4	1180.3	1181.4	1182.4	1183.5	1184.5	1184.7	1184.1	1183.5
150°	1216.1	1215.2	1214.4	1213.6	1214.4	1215.2	1216.1	1216.8	1216.8	1216.1	1215.2
152.5°	1247.9	1247.0	1245.9	1244.9	1245.9	1247.0	1247.9	1249.0	1249.0	1247.9	1247.0
155°	1289.4	1288.5	1287.7	1286.9	1287.7	1288.5	1289.4	1290.2	1289.9	1288.5	1287.2
157.5°	1327.0	1325.7	1324.4	1323.0	1324.4	1325.7	1327.0	1328.3	1328.0	1326.2	1324.4
160°	1348.9	1347.7	1346.7	1345.6	1346.7	1347.7	1348.9	1349.9	1349.6	1348.0	1346.4
162.5°	1369.0	1367.7	1366.4	1365.2	1366.4	1367.7	1369.0	1370.4	1370.1	1368.2	1366.4
165°	1394.9	1393.5	1392.1	1390.8	1392.1	1393.5	1394.9	1396.2	1396.0	1394.0	1392.1
167.5°	1416.1	1414.7	1413.2	1411.8	1413.2	1414.7	1416.1	1417.5	1417.2	1415.3	1413.4
170°	1427.5	1425.9	1424.2	1422.6	1424.2	1425.9	1427.5	1429.1	1429.0	1427.0	1425.1
172.5°	1436.2	1434.6	1433.0	1431.3	1433.0	1434.6	1436.2	1437.8	1437.8	1435.9	1434.0
175°	1445.8	1444.2	1442.6	1440.9	1442.6	1444.2	1445.8	1447.5	1447.3	1445.4	1443.5
177.5°	1449.3	1447.9	1446.6	1445.3	1446.6	1447.9	1449.3	1450.5	1450.5	1449.3	1447.9
180°	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2



TEST NUMBER: P331778-830

CATALOG NUMBER: S122RDIW-S290D1240U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1
2.5°	592.6	594.9	598.5	600.6	604.0	606.2	607.5	609.6	610.9	615.2	619.6
5°	559.4	562.9	568.8	574.4	580.4	586.6	591.2	596.3	601.0	609.1	617.6
7.5°	521.5	526.2	535.6	544.4	554.9	563.6	571.4	580.1	588.0	599.6	611.8
10°	493.0	501.4	513.6	522.0	535.6	544.4	556.7	566.3	577.2	592.7	606.3
12.5°	468.5	478.6	488.4	500.0	512.4	527.0	540.4	552.8	565.7	581.6	597.8
15°	424.1	438.7	453.9	465.7	482.4	497.8	513.4	530.1	545.9	565.1	586.0
17.5°	366.9	383.8	409.3	429.5	449.1	464.6	484.0	504.2	522.8	545.8	569.2
20°	341.1	353.5	370.8	398.0	427.5	444.0	463.7	486.0	507.4	532.4	557.5
22.5°	320.4	331.4	345.3	366.5	399.4	422.0	442.5	465.1	489.9	515.5	543.3
25°	290.8	298.4	313.0	330.2	352.8	389.8	412.4	435.1	462.0	489.5	521.1
27.5°	268.5	275.5	284.9	301.2	318.1	344.8	380.5	405.3	432.2	463.0	495.9
30°	251.6	259.7	270.2	281.7	300.2	320.9	356.7	385.4	411.9	443.7	478.7
32.5°	239.2	245.6	254.6	266.4	281.6	301.6	330.2	365.0	390.9	424.2	460.9
35°	219.0	226.5	233.8	245.0	257.3	275.5	297.2	334.4	360.1	393.0	429.9
37.5°	202.4	207.0	215.0	223.9	237.0	250.5	269.3	302.7	330.5	362.8	400.5
40°	189.7	195.5	201.4	211.3	222.1	235.1	253.4	278.3	310.2	342.0	378.7
42.5°	177.4	184.6	191.1	197.7	209.3	222.4	237.4	258.4	291.1	321.0	356.8
45°	162.5	167.2	173.8	181.2	190.8	201.9	215.2	233.6	264.9	290.8	324.3
47.5°	145.2	152.1	156.5	163.5	172.7	183.3	195.7	211.6	236.9	261.2	292.4
50°	133.4	140.4	146.7	153.1	161.2	171.4	181.8	197.2	217.5	243.0	272.1
52.5°	123.3	129.5	135.5	141.9	150.0	159.3	169.1	182.7	200.0	223.5	251.8
55°	109.4	113.3	119.5	125.9	133.0	141.9	151.4	162.7	177.7	197.4	220.3
57.5°	95.2	99.6	104.5	111.0	118.2	125.1	133.6	143.8	155.6	173.4	193.0
60°	87.2	90.6	94.6	101.2	107.9	114.1	122.2	130.8	141.9	157.4	174.1
62.5°	78.2	81.5	85.2	91.0	97.5	103.1	110.3	119.3	128.8	142.8	157.4
65°	63.3	68.1	71.7	76.8	82.2	88.2	93.8	101.0	109.4	120.6	133.6
67.5°	52.5	55.0	58.3	63.0	68.4	73.6	78.9	84.5	91.8	100.4	110.7
70°	47.8	48.6	49.2	53.7	58.9	64.0	68.9	74.3	80.5	87.6	96.5
72.5°	42.1	43.0	43.7	45.7	49.8	55.0	60.0	64.0	69.8	75.8	83.0
75°	33.4	34.7	35.3	36.4	37.9	41.3	46.0	49.9	53.3	57.8	63.6
77.5°	25.4	26.2	26.9	28.0	28.9	30.4	33.2	36.6	39.9	42.4	46.4
80°	20.2	20.4	21.2	21.6	22.9	23.9	25.3	28.1	31.3	32.3	35.2
82.5°	15.2	15.4	16.0	16.5	17.1	18.0	19.6	20.4	22.9	24.3	26.0
85°	8.4	8.1	8.8	8.8	9.2	9.6	10.1	11.1	11.8	13.5	13.9
87.5°	11.0	11.1	10.1	8.9	7.7	6.9	6.1	5.7	5.3	5.2	5.2
90°	42.2	42.8	36.8	30.8	24.9	18.9	14.2	11.0	7.7	4.5	1.2
92.5°	38.9	38.8	37.4	36.0	34.6	33.2	31.3	28.9	26.6	24.1	21.8
95°	78.2	78.2	77.7	77.1	76.6	76.1	74.5	71.7	69.0	66.3	63.5
97.5°	131.5	131.5	130.4	129.4	128.4	127.3	125.6	123.3	120.9	118.5	116.1
100°	168.6	168.6	167.9	167.0	166.2	165.4	163.9	161.7	159.6	157.4	155.2
102.5°	209.0	208.8	207.7	206.7	205.7	204.6	203.2	201.5	199.7	198.0	196.2
105°	269.4	268.9	268.3	267.8	267.2	266.7	266.0	265.2	264.4	263.5	262.8
107.5°	335.4	335.1	335.1	335.1	335.1	335.1	334.5	333.3	332.2	330.9	329.7
110°	380.1	380.1	380.1	380.1	380.1	380.1	379.3	377.7	376.0	374.4	372.8



TEST NUMBER: P331778-830

CATALOG NUMBER: S122RDIW-S290D1240U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	425.4	426.0	426.2	426.5	426.7	426.9	426.2	424.6	422.9	421.3	419.7
115°	493.5	493.7	494.3	494.8	495.4	495.9	495.4	493.7	492.1	490.5	488.9
117.5°	560.1	560.7	562.2	563.7	565.2	566.8	566.5	564.3	562.1	560.0	557.8
120°	603.7	603.7	605.9	608.1	610.3	612.5	612.5	610.3	608.1	605.9	603.7
122.5°	650.0	650.6	652.1	653.7	655.3	656.8	656.2	653.6	651.0	648.4	645.7
125°	717.8	718.6	719.4	720.3	721.0	721.9	721.0	718.6	716.1	713.7	711.2
127.5°	783.6	784.6	785.6	786.6	787.6	788.5	787.5	784.4	781.3	778.2	775.1
130°	828.0	828.6	829.2	829.7	830.3	830.8	829.2	825.8	822.3	818.7	815.2
132.5°	872.4	873.5	873.5	873.4	873.3	873.2	871.7	868.7	865.9	863.0	860.2
135°	935.9	936.1	935.7	935.1	934.5	934.0	932.3	929.3	926.2	923.2	920.3
137.5°	997.6	997.8	997.0	996.4	995.6	994.9	993.3	990.9	988.4	986.0	983.5
140°	1038.8	1038.8	1037.5	1036.1	1034.7	1033.4	1031.5	1029.1	1026.6	1024.2	1021.7
142.5°	1076.2	1076.0	1075.1	1074.1	1073.2	1072.2	1070.6	1068.2	1065.7	1063.3	1060.8
145°	1133.2	1132.9	1131.3	1129.6	1128.0	1126.4	1124.6	1122.8	1120.9	1119.0	1117.0
147.5°	1182.9	1182.3	1181.2	1180.2	1179.0	1178.0	1176.3	1174.0	1171.7	1169.4	1167.2
150°	1214.4	1213.6	1212.5	1211.4	1210.3	1209.3	1207.9	1206.3	1204.7	1203.0	1201.4
152.5°	1245.9	1244.9	1243.6	1242.3	1241.0	1239.6	1238.2	1236.5	1234.9	1233.3	1231.7
155°	1285.8	1284.5	1283.6	1282.8	1282.0	1281.2	1280.4	1279.6	1278.7	1278.0	1277.1
157.5°	1322.5	1320.7	1320.1	1319.7	1319.2	1318.7	1318.1	1317.7	1317.1	1316.5	1316.0
160°	1344.7	1343.1	1342.8	1342.6	1342.3	1342.1	1341.6	1341.1	1340.6	1340.0	1339.4
162.5°	1364.5	1362.7	1362.4	1362.2	1361.9	1361.6	1361.4	1361.3	1361.2	1361.1	1360.9
165°	1390.3	1388.4	1388.4	1388.4	1388.4	1388.4	1388.5	1388.7	1389.0	1389.3	1389.6
167.5°	1411.6	1409.6	1409.7	1409.8	1409.8	1409.9	1410.2	1411.1	1411.9	1412.7	1413.5
170°	1423.2	1421.4	1421.6	1421.9	1422.2	1422.5	1423.0	1423.8	1424.7	1425.4	1426.3
172.5°	1432.1	1430.1	1430.4	1430.7	1431.0	1431.3	1431.8	1432.6	1433.4	1434.3	1435.0
175°	1441.6	1439.6	1440.2	1440.8	1441.3	1441.9	1442.6	1443.3	1444.2	1445.0	1445.8
177.5°	1446.6	1445.3	1445.8	1446.1	1446.6	1447.1	1447.6	1448.2	1448.9	1449.5	1450.2
180°	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2



TEST NUMBER: P331778-830

CATALOG NUMBER: S122RDIW-S290D1240U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1
2.5°	619.8	620.3	623.7	625.3	628.3	629.5	630.9	630.6	630.6	631.2	636.0
5°	621.1	625.4	631.8	638.0	644.0	649.1	652.6	656.0	657.3	663.5	669.0
7.5°	618.9	626.8	637.3	646.9	658.2	667.0	674.4	681.1	685.6	694.7	703.9
10°	616.0	627.1	639.0	651.3	666.9	678.7	690.7	699.9	702.9	716.3	724.1
12.5°	610.1	625.0	640.3	656.1	671.4	687.6	700.8	710.0	720.6	732.6	746.9
15°	601.4	618.5	638.5	658.7	680.6	700.3	714.4	730.5	742.1	755.4	767.8
17.5°	588.9	611.0	636.2	659.8	685.0	706.2	725.7	741.0	749.1	756.8	758.6
20°	578.9	602.7	632.4	660.3	685.5	709.9	729.2	742.1	744.2	744.4	733.1
22.5°	568.2	595.0	626.1	654.6	684.9	712.0	727.0	732.4	724.0	709.5	687.5
25°	548.3	579.4	615.6	648.1	681.1	706.7	711.9	702.3	672.5	641.2	601.6
27.5°	526.8	561.8	600.5	636.7	671.8	687.8	676.7	641.9	588.3	541.7	485.2
30°	511.0	550.3	588.3	628.8	661.4	668.2	642.7	591.5	529.0	458.8	402.5
32.5°	493.0	534.1	576.0	617.8	645.1	638.4	596.3	533.3	460.1	391.0	337.8
35°	467.4	509.7	555.0	596.9	614.3	585.3	522.4	440.4	365.4	301.0	264.4
37.5°	437.7	483.9	530.8	569.4	568.2	520.0	434.2	349.6	286.6	248.5	222.4
40°	416.6	463.4	514.1	546.6	532.7	470.0	377.0	297.2	251.1	220.7	201.7
42.5°	396.4	443.3	493.7	519.5	495.3	418.2	325.6	263.1	225.1	201.4	186.0
45°	362.0	411.5	458.2	472.5	429.2	344.3	263.3	217.9	192.7	175.1	164.5
47.5°	328.4	377.1	419.7	419.9	361.5	279.2	222.2	188.6	167.0	153.4	145.7
50°	307.8	354.1	389.8	384.3	317.9	248.4	198.7	169.8	151.8	141.3	133.2
52.5°	284.7	329.6	360.6	344.8	281.1	218.6	177.6	153.4	138.5	129.3	122.1
55°	251.1	291.0	312.8	288.8	229.3	181.8	150.1	131.0	119.9	112.2	105.9
57.5°	218.1	251.0	264.7	236.8	188.9	150.7	127.0	112.6	101.6	96.0	92.8
60°	197.4	225.5	235.1	204.2	164.2	131.9	112.4	99.2	91.0	87.4	84.2
62.5°	177.0	199.9	203.9	175.7	143.2	115.5	98.7	87.5	82.1	78.6	75.6
65°	146.8	163.3	161.5	138.7	113.3	91.6	79.5	72.6	68.5	63.6	58.2
67.5°	120.9	131.0	124.9	107.9	86.4	71.3	63.2	58.1	53.0	48.4	47.1
70°	104.4	110.3	103.9	88.2	70.9	59.8	53.3	47.1	44.1	43.1	41.1
72.5°	88.7	90.8	83.8	70.4	57.7	49.5	43.2	39.8	38.1	37.2	36.0
75°	66.5	65.1	59.1	48.6	40.1	34.5	32.5	31.3	30.2	29.3	28.7
77.5°	46.8	44.6	39.2	32.3	27.9	25.3	24.0	23.4	22.9	22.4	21.8
80°	35.2	33.6	28.3	23.1	21.2	19.9	19.2	18.4	18.4	18.0	17.3
82.5°	25.7	24.0	19.3	17.0	15.9	15.1	14.6	14.1	13.9	14.0	13.6
85°	13.5	10.9	9.6	9.2	8.6	8.1	8.4	7.9	7.9	7.9	7.7
87.5°	5.0	4.8	5.3	5.7	6.9	8.0	9.0	10.3	11.6	11.4	11.4
90°	4.5	7.7	11.0	14.2	18.9	24.9	30.8	36.8	42.8	42.2	41.7
92.5°	24.1	26.6	28.9	31.3	33.2	34.6	36.0	37.4	38.8	38.9	39.1
95°	66.3	69.0	71.7	74.5	76.1	76.6	77.1	77.7	78.2	78.2	78.2
97.5°	118.5	120.9	123.3	125.6	127.3	128.4	129.4	130.4	131.5	131.5	131.5
100°	157.4	159.6	161.7	163.9	165.4	166.2	167.0	167.9	168.6	168.6	168.6
102.5°	198.0	199.7	201.5	203.2	204.6	205.7	206.7	207.7	208.8	209.0	209.2
105°	263.5	264.4	265.2	266.0	266.7	267.2	267.8	268.3	268.9	269.4	269.9
107.5°	330.9	332.2	333.3	334.5	335.1	335.1	335.1	335.1	335.1	335.4	335.5
110°	374.4	376.0	377.7	379.3	380.1	380.1	380.1	380.1	380.1	380.1	380.1





TEST NUMBER: P331778-830

CATALOG NUMBER: S122RDIW-S290D1240U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	421.3	422.9	424.6	426.2	426.9	426.7	426.5	426.2	426.0	425.4	424.7
115°	490.5	492.1	493.7	495.4	495.9	495.4	494.8	494.3	493.7	493.5	493.2
117.5°	560.0	562.1	564.3	566.5	566.8	565.2	563.7	562.2	560.7	560.1	559.4
120°	605.9	608.1	610.3	612.5	612.5	610.3	608.1	605.9	603.7	603.7	603.7
122.5°	648.4	651.0	653.6	656.2	656.8	655.3	653.7	652.1	650.6	650.0	649.4
125°	713.7	716.1	718.6	721.0	721.9	721.0	720.3	719.4	718.6	717.8	717.0
127.5°	778.2	781.3	784.4	787.5	788.5	787.6	786.6	785.6	784.6	783.6	782.7
130°	818.7	822.3	825.8	829.2	830.8	830.3	829.7	829.2	828.6	828.0	827.6
132.5°	863.0	865.9	868.7	871.7	873.2	873.3	873.4	873.5	873.5	872.4	871.2
135°	923.2	926.2	929.3	932.3	934.0	934.5	935.1	935.7	936.1	935.9	935.7
137.5°	986.0	988.4	990.9	993.3	994.9	995.6	996.4	997.0	997.8	997.6	997.3
140°	1024.2	1026.6	1029.1	1031.5	1033.4	1034.7	1036.1	1037.5	1038.8	1038.8	1038.8
142.5°	1063.3	1065.7	1068.2	1070.6	1072.2	1073.2	1074.1	1075.1	1076.0	1076.2	1076.4
145°	1119.0	1120.9	1122.8	1124.6	1126.4	1128.0	1129.6	1131.3	1132.9	1133.2	1133.5
147.5°	1169.4	1171.7	1174.0	1176.3	1178.0	1179.0	1180.2	1181.2	1182.3	1182.9	1183.5
150°	1203.0	1204.7	1206.3	1207.9	1209.3	1210.3	1211.4	1212.5	1213.6	1214.4	1215.2
152.5°	1233.3	1234.9	1236.5	1238.2	1239.6	1241.0	1242.3	1243.6	1244.9	1245.9	1247.0
155°	1278.0	1278.7	1279.6	1280.4	1281.2	1282.0	1282.8	1283.6	1284.5	1285.8	1287.2
157.5°	1316.5	1317.1	1317.7	1318.1	1318.7	1319.2	1319.7	1320.1	1320.7	1322.5	1324.4
160°	1340.0	1340.6	1341.1	1341.6	1342.1	1342.3	1342.6	1342.8	1343.1	1344.7	1346.4
162.5°	1361.1	1361.2	1361.3	1361.4	1361.6	1361.9	1362.2	1362.4	1362.7	1364.5	1366.4
165°	1389.3	1389.0	1388.7	1388.5	1388.4	1388.4	1388.4	1388.4	1388.4	1390.3	1392.1
167.5°	1412.7	1411.9	1411.1	1410.2	1409.9	1409.8	1409.8	1409.7	1409.6	1411.6	1413.4
170°	1425.4	1424.7	1423.8	1423.0	1422.5	1422.2	1421.9	1421.6	1421.4	1423.2	1425.1
172.5°	1434.3	1433.4	1432.6	1431.8	1431.3	1431.0	1430.7	1430.4	1430.1	1432.1	1434.0
175°	1445.0	1444.2	1443.3	1442.6	1441.9	1441.3	1440.8	1440.2	1439.6	1441.6	1443.5
177.5°	1449.5	1448.9	1448.2	1447.6	1447.1	1446.6	1446.1	1445.8	1445.3	1446.6	1447.9
180°	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2



TEST NUMBER: P331778-830

CATALOG NUMBER: S122RDIW-S290D1240U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	616.1	616.1	616.1	616.1	616.1	616.1	616.1
2.5°	637.7	640.0	641.0	641.0	642.2	641.7	641.2
5°	674.4	678.4	679.4	683.2	686.0	685.1	685.5
7.5°	710.9	717.4	723.9	726.8	727.3	729.0	729.6
10°	733.3	738.7	748.7	747.2	754.7	759.0	752.0
12.5°	754.9	762.1	769.1	771.0	775.2	776.7	773.8
15°	774.4	778.3	778.6	777.6	778.9	777.8	773.7
17.5°	756.2	749.9	737.3	731.2	726.5	719.4	716.6
20°	726.0	707.6	686.2	677.6	667.6	647.9	652.6
22.5°	660.9	640.0	618.5	593.5	581.5	562.9	561.8
25°	559.7	523.5	483.6	455.8	439.5	420.9	412.7
27.5°	435.2	389.6	356.9	340.4	325.4	310.7	310.0
30°	353.3	319.1	293.8	279.7	270.4	264.2	265.5
32.5°	297.7	274.3	257.2	245.5	238.7	234.0	233.9
35°	243.5	227.3	216.4	211.5	206.6	203.2	203.4
37.5°	208.3	198.7	192.6	187.2	184.1	182.4	181.4
40°	190.3	182.4	177.7	174.5	171.9	169.6	169.1
42.5°	176.2	169.6	164.9	162.3	159.9	158.3	157.9
45°	156.3	150.9	146.7	143.8	142.8	141.3	141.3
47.5°	139.0	133.7	130.4	128.7	126.9	125.8	125.8
50°	127.4	123.3	120.4	119.2	117.7	117.2	116.9
52.5°	117.0	113.9	111.8	111.0	110.4	109.6	109.7
55°	102.7	101.0	100.2	99.5	98.5	97.2	98.0
57.5°	90.9	89.4	87.1	85.0	84.1	83.1	83.5
60°	82.5	79.5	76.4	74.1	73.4	71.5	71.5
62.5°	71.8	67.6	63.9	62.6	61.9	61.1	60.9
65°	55.2	53.5	52.7	51.8	51.4	51.4	51.0
67.5°	45.8	45.1	44.1	43.9	43.5	43.4	43.3
70°	40.4	39.6	39.2	38.9	38.5	38.7	38.1
72.5°	35.3	34.7	34.6	34.0	33.7	33.7	33.3
75°	27.8	27.8	27.6	27.4	27.0	26.8	27.0
77.5°	21.4	21.5	21.1	21.0	21.0	21.0	20.8
80°	17.2	17.3	17.2	16.9	16.7	16.9	16.7
82.5°	13.6	13.2	13.2	13.1	13.1	13.0	12.9
85°	7.7	7.9	7.7	7.5	7.5	7.5	7.7
87.5°	11.1	11.0	11.0	11.0	11.1	11.1	11.0
90°	41.2	40.6	40.4	40.7	41.0	41.3	41.6
92.5°	39.2	39.3	39.4	39.4	39.5	39.6	39.6
95°	78.2	78.2	77.9	77.4	76.8	76.3	75.8
97.5°	131.5	131.5	131.5	131.4	131.4	131.3	131.3
100°	168.6	168.6	168.5	168.2	168.0	167.7	167.4
102.5°	209.4	209.6	209.6	209.3	209.1	208.8	208.5
105°	270.5	271.1	271.4	271.4	271.4	271.4	271.4
107.5°	335.7	336.0	335.5	334.2	333.0	331.7	330.5
110°	380.1	380.1	379.7	378.9	378.1	377.2	376.5



TEST NUMBER: P331778-830

CATALOG NUMBER: S122RDIW-S290D1240U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	424.0	423.4	422.8	422.2	421.6	421.0	420.4
115°	492.9	492.7	492.1	491.3	490.5	489.7	488.9
117.5°	558.7	558.1	557.4	556.6	555.7	555.0	554.1
120°	603.7	603.7	603.3	602.5	601.7	600.9	600.1
122.5°	648.8	648.1	647.4	646.9	646.2	645.6	645.1
125°	716.1	715.4	714.8	714.5	714.3	714.0	713.7
127.5°	781.7	780.7	779.8	778.9	778.1	777.2	776.3
130°	827.0	826.4	825.7	824.5	823.5	822.4	821.2
132.5°	870.0	868.8	867.8	867.0	866.0	865.2	864.3
135°	935.4	935.1	934.5	933.7	932.9	932.1	931.2
137.5°	997.1	996.9	996.3	995.1	994.1	993.0	991.9
140°	1038.8	1038.8	1038.3	1037.2	1036.1	1035.0	1034.0
142.5°	1076.7	1076.9	1076.4	1075.3	1074.2	1073.2	1072.0
145°	1133.8	1134.0	1133.6	1132.6	1131.4	1130.4	1129.3
147.5°	1184.1	1184.7	1184.5	1183.5	1182.4	1181.4	1180.3
150°	1216.1	1216.8	1216.8	1216.1	1215.2	1214.4	1213.6
152.5°	1247.9	1249.0	1249.0	1247.9	1247.0	1245.9	1244.9
155°	1288.5	1289.9	1290.2	1289.4	1288.5	1287.7	1286.9
157.5°	1326.2	1328.0	1328.3	1327.0	1325.7	1324.4	1323.0
160°	1348.0	1349.6	1349.9	1348.9	1347.7	1346.7	1345.6
162.5°	1368.2	1370.1	1370.4	1369.0	1367.7	1366.4	1365.2
165°	1394.0	1396.0	1396.2	1394.9	1393.5	1392.1	1390.8
167.5°	1415.3	1417.2	1417.5	1416.1	1414.7	1413.2	1411.8
170°	1427.0	1429.0	1429.1	1427.5	1425.9	1424.2	1422.6
172.5°	1435.9	1437.8	1437.8	1436.2	1434.6	1433.0	1431.3
175°	1445.4	1447.3	1447.5	1445.8	1444.2	1442.6	1440.9
177.5°	1449.3	1450.5	1450.5	1449.3	1447.9	1446.6	1445.3
180°	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2

(END OF REPORT)