

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: P331798-830

Luminaire Tested: **S122RDIW-S485D1240U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331798-830  
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-S485D1240U830-4F0-1E-UDD-A1  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1240 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

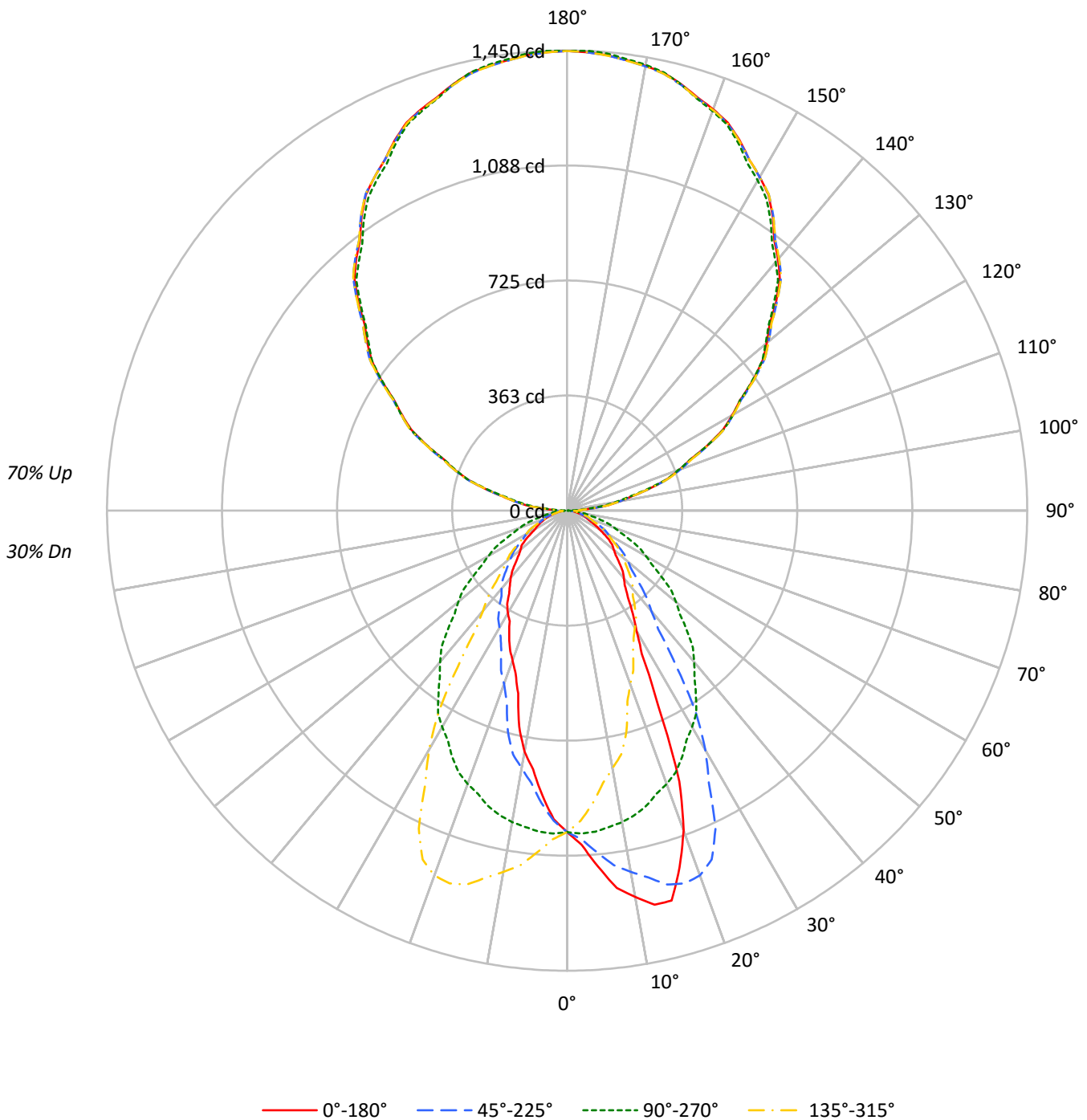
Lumens per Lamp: N/A  
Luminaire Lumens: 5806.0 lumens  
Efficiency: N/A  
Efficacy: 107.9 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 53.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	102	102	102	102	92	92	92	92	72	72	72	54	54	54	38	38	38	30				
1	94	90	86	83	84	81	78	75	64	62	60	48	47	46	34	34	33	26				
2	86	79	73	68	77	71	66	62	57	53	50	43	41	39	31	29	28	23				
3	79	70	63	58	70	63	57	53	50	46	43	39	36	34	28	26	25	20				
4	72	62	55	49	65	56	50	45	45	41	37	35	32	29	25	23	22	18				
5	66	55	48	42	59	50	44	39	40	36	32	31	28	26	23	21	19	16				
6	61	50	42	37	55	45	39	34	37	32	28	28	25	23	21	19	17	14				
7	57	45	38	32	51	41	34	30	33	29	25	26	23	20	19	17	16	13				
8	53	41	34	29	47	37	31	27	30	26	22	24	21	18	18	16	14	12				
9	49	37	30	26	44	34	28	24	28	23	20	22	19	16	17	14	13	11				
10	46	34	27	23	41	31	25	21	26	21	18	20	17	15	15	13	12	10				

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

	0°	90°	180°	270°
0°	16356	16356	16356	16356
5°	18266	16459	14593	16459
10°	20266	16342	12650	16342
15°	21264	16104	9967	16104
20°	18433	15747	8624	15747
25°	12089	15262	7701	15262
30°	8138	14673	6969	14673
35°	6591	13931	6286	13931
40°	5861	13122	5817	13122
45°	5304	12177	5190	12177
50°	4828	11235	4808	11235
55°	4538	10196	4479	10196
60°	3794	9242	3749	9242
65°	3202	8390	3629	8390
70°	2960	7492	3423	7492
75°	2770	6519	3163	6519
80°	2548	5365	2817	5365
85°	2334	4242	2482	4242



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.0	1.7
10°-20°	267.6	4.6
20°-30°	344.8	5.9
30°-40°	327.7	5.6
40°-50°	280.7	4.8
50°-60°	213.8	3.7
60°-70°	135.1	2.3
70°-80°	67.5	1.2
80°-90°	23.3	0.4
90°-100°	91.8	1.6
100°-110°	285.0	4.9
110°-120°	487.2	8.4
120°-130°	640.7	11.0
130°-140°	719.1	12.4
140°-150°	705.1	12.1
150°-160°	591.4	10.2
160°-170°	392.2	6.8
170°-180°	137.1	2.4
0°-30°	708.4	12.2
0°-40°	1036.1	17.8
0°-60°	1530.5	26.4
0°-90°	1756.5	30.3
90°-120°	864.0	14.9
90°-150°	2928.8	50.4
90°-180°	4050.0	69.8
0°-180°	5806.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1013	1013	1013	1013	1013	
5°	1127	1016	900	1016	1127	111
15°	1272	963	596	963	1272	343
25°	679	857	432	857	679	322
35°	334	707	319	707	334	214
45°	232	533	227	533	232	180
55°	161	362	159	362	161	141
65°	84	220	95	220	84	85
75°	44	104	51	104	44	47
85°	13	23	13	23	13	15
90°	42	1	42	1	42	19
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	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0
2.5°	1054.1	1055.0	1055.8	1053.9	1053.9	1052.2	1048.5	1045.7	1037.7	1036.6	1036.6
5°	1127.0	1126.3	1127.8	1123.1	1116.8	1115.4	1108.7	1099.9	1090.8	1080.5	1078.5
7.5°	1199.6	1198.5	1195.7	1194.9	1190.1	1179.4	1168.7	1157.2	1142.0	1127.1	1119.6
10°	1236.1	1247.7	1240.8	1228.4	1230.9	1214.4	1205.5	1190.4	1177.7	1155.6	1150.7
12.5°	1272.1	1276.8	1274.5	1267.5	1264.4	1252.9	1241.0	1227.9	1204.5	1184.6	1167.2
15°	1272.1	1278.7	1280.5	1278.4	1280.2	1279.4	1273.1	1262.2	1241.8	1219.9	1201.0
17.5°	1178.2	1182.8	1194.3	1202.1	1212.0	1232.8	1243.1	1247.2	1244.1	1231.6	1218.2
20°	1072.8	1065.1	1097.5	1114.0	1128.1	1163.3	1193.5	1205.1	1223.8	1223.5	1219.9
22.5°	923.6	925.4	956.1	975.7	1016.9	1052.1	1086.6	1130.3	1166.4	1190.2	1204.2
25°	678.6	692.0	722.6	749.3	795.1	860.6	920.1	989.1	1054.1	1105.6	1154.5
27.5°	509.6	510.7	534.9	559.7	586.8	640.5	715.4	797.8	890.6	967.1	1055.3
30°	436.5	434.3	444.6	459.7	483.0	524.4	580.8	661.8	754.3	869.8	972.5
32.5°	384.7	384.7	392.5	403.7	422.9	450.9	489.6	555.3	642.8	756.3	876.8
35°	334.4	334.0	339.7	347.8	355.8	373.8	400.2	434.7	494.9	600.9	724.1
37.5°	298.3	299.9	302.7	307.7	316.6	326.6	342.5	365.6	408.5	471.2	574.7
40°	278.1	278.8	282.7	286.9	292.2	299.9	312.9	331.6	362.9	412.8	488.5
42.5°	259.5	260.1	263.0	266.8	271.0	278.8	289.5	305.7	331.1	370.0	432.5
45°	232.3	232.3	234.8	236.5	241.1	248.2	256.9	270.3	287.9	316.8	358.4
47.5°	206.8	206.9	208.5	211.5	214.4	219.9	228.6	239.5	252.3	274.7	310.1
50°	192.2	192.6	193.6	196.0	197.8	202.7	209.4	219.0	232.3	249.6	279.1
52.5°	180.3	180.1	181.4	182.6	183.7	187.3	192.3	200.7	212.6	227.6	252.1
55°	161.2	159.8	161.9	163.6	164.8	166.2	168.9	174.3	184.5	197.1	215.4
57.5°	137.2	136.7	138.2	139.8	143.1	146.9	149.3	152.7	158.0	167.0	185.2
60°	117.5	117.5	120.7	121.8	125.6	130.5	135.5	138.4	143.6	149.6	163.0
62.5°	100.1	100.4	101.9	102.9	105.1	111.1	118.1	124.2	129.2	135.0	143.8
65°	83.8	84.5	84.5	85.2	86.6	88.0	90.8	95.8	104.5	112.6	119.3
67.5°	71.1	71.4	71.5	72.2	72.6	74.1	75.2	77.5	79.5	87.2	95.5
70°	62.7	63.7	63.3	64.1	64.4	65.1	66.5	67.6	70.8	72.5	77.5
72.5°	54.8	55.5	55.5	55.9	56.8	56.9	58.1	59.1	61.2	62.7	65.3
75°	44.4	44.0	44.4	45.1	45.4	45.7	45.7	47.1	48.3	49.7	51.4
77.5°	34.2	34.6	34.5	34.6	34.6	35.3	35.2	35.8	36.9	37.6	38.5
80°	27.4	27.8	27.4	27.8	28.2	28.5	28.2	28.5	29.6	30.3	30.3
82.5°	21.3	21.3	21.6	21.6	21.7	21.8	22.2	22.3	23.1	22.9	23.2
85°	12.6	12.3	12.3	12.3	12.6	13.0	12.6	12.6	13.0	13.0	13.0
87.5°	12.8	13.0	13.0	12.9	12.9	12.9	13.0	13.4	13.2	13.7	12.2
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



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**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



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0
2.5°	1037.2	1035.0	1033.0	1027.9	1025.4	1019.7	1018.9	1018.6	1011.3	1004.3	1002.3
5°	1072.8	1067.2	1058.8	1048.9	1038.7	1028.1	1021.1	1015.5	1001.4	988.0	980.2
7.5°	1108.7	1096.6	1082.0	1063.4	1047.8	1030.4	1017.5	1005.8	985.8	966.7	953.8
10°	1135.5	1115.8	1096.5	1070.7	1050.7	1031.0	1012.7	996.8	974.3	949.0	930.9
12.5°	1152.1	1130.4	1103.7	1078.6	1052.6	1027.6	1003.1	982.7	956.3	930.1	908.7
15°	1174.6	1151.3	1119.0	1083.1	1049.6	1016.9	988.7	963.4	928.9	897.6	871.5
17.5°	1193.0	1160.9	1126.1	1084.7	1045.9	1004.4	968.1	935.7	897.3	859.5	828.9
20°	1198.8	1167.2	1127.0	1085.5	1039.7	990.8	951.8	916.5	875.3	834.2	799.0
22.5°	1195.1	1170.5	1125.9	1076.2	1029.4	978.2	934.1	893.2	847.5	805.5	764.7
25°	1170.4	1161.9	1119.6	1065.5	1011.9	952.4	901.4	856.7	804.6	759.6	715.2
27.5°	1112.4	1130.7	1104.5	1046.7	987.2	923.4	866.1	815.2	761.1	710.4	666.2
30°	1056.7	1098.5	1087.2	1033.8	967.2	904.6	840.2	787.0	729.3	677.2	633.6
32.5°	980.3	1049.5	1060.5	1015.8	947.0	878.1	810.6	757.7	697.5	642.5	600.0
35°	858.8	962.3	1009.8	981.3	912.3	838.1	768.4	706.8	646.2	592.0	549.8
37.5°	713.9	854.8	934.1	936.0	872.7	795.5	719.6	658.5	596.4	543.3	497.6
40°	619.8	772.6	875.7	898.6	845.1	761.7	684.9	622.6	562.1	510.0	457.6
42.5°	535.4	687.6	814.4	854.1	811.6	728.8	651.8	586.6	527.7	478.4	424.9
45°	432.9	566.0	705.7	776.8	753.3	676.5	595.2	533.3	478.0	435.4	384.0
47.5°	365.2	459.0	594.2	690.4	689.9	619.9	540.0	480.6	429.3	389.5	347.8
50°	326.6	408.3	522.7	631.8	640.9	582.2	506.1	447.3	399.5	357.6	324.1
52.5°	292.0	359.3	462.1	566.8	592.8	541.9	468.2	413.9	367.4	328.9	300.2
55°	246.8	298.8	377.0	474.9	514.3	478.3	412.8	362.2	324.5	292.2	267.5
57.5°	208.7	247.8	310.5	389.3	435.2	412.6	358.6	317.4	285.2	255.9	236.5
60°	184.8	216.8	269.9	335.8	386.4	370.6	324.5	286.2	258.7	233.4	215.1
62.5°	162.3	189.8	235.4	288.8	335.3	328.7	291.1	258.8	234.8	211.7	196.2
65°	130.5	150.6	186.2	228.1	265.4	268.5	241.5	219.6	198.1	179.8	166.2
67.5°	104.0	117.1	142.1	177.4	205.4	215.4	198.8	182.1	165.0	150.9	139.0
70°	87.7	98.2	116.5	145.1	170.7	181.3	171.7	158.7	143.9	132.3	122.2
72.5°	71.1	81.3	94.8	115.7	137.8	149.2	145.9	136.5	124.5	114.9	105.3
75°	53.5	56.6	65.8	79.9	97.2	107.0	109.4	104.5	95.0	87.7	82.0
77.5°	39.6	41.5	45.8	53.3	64.5	73.2	76.9	76.3	69.7	65.5	60.2
80°	31.7	32.7	34.9	38.0	46.5	55.2	57.7	57.7	53.2	51.4	46.1
82.5°	24.0	24.9	26.1	27.9	31.9	39.5	42.2	42.8	39.9	37.6	33.5
85°	13.8	13.4	14.0	15.2	15.8	17.9	22.1	22.9	22.1	19.3	18.3
87.5°	10.9	10.1	8.9	7.6	7.3	6.9	7.6	8.4	7.9	7.7	7.8
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: P331798-830

CATALOG NUMBER: S122RDIW-S485D1240U830-4F0-1E-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: P331798-830

CATALOG NUMBER: S122RDIW-S485D1240U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0
2.5°	998.6	996.6	993.0	987.4	984.0	978.1	974.1	976.4	976.9	976.4	975.8
5°	971.9	964.4	954.2	944.3	935.2	925.4	919.7	917.3	912.3	909.6	908.1
7.5°	939.3	926.6	912.2	895.0	880.4	865.2	857.3	853.5	843.4	837.9	833.1
10°	915.1	895.0	880.6	858.1	844.4	824.3	810.6	811.0	797.2	789.5	783.8
12.5°	888.4	866.4	842.4	822.1	803.0	786.9	770.3	763.6	749.0	741.6	726.4
15°	844.0	818.3	793.1	765.5	746.2	721.2	697.3	668.1	644.5	624.1	618.4
17.5°	795.6	763.8	738.4	706.2	673.0	630.9	603.2	586.3	572.0	561.3	553.3
20°	762.4	730.0	702.9	654.3	609.6	581.1	560.7	547.7	532.9	521.3	514.9
22.5°	727.5	693.7	656.8	602.5	567.7	544.8	526.6	511.6	501.6	492.6	486.8
25°	677.9	640.9	580.0	542.7	514.6	490.7	478.0	468.8	458.3	445.9	440.4
27.5°	625.6	566.8	523.0	495.3	468.4	452.9	441.5	427.8	418.4	412.8	407.0
30°	586.4	527.6	493.5	463.2	444.2	427.0	413.6	405.9	396.7	387.2	383.3
32.5°	542.7	495.8	463.1	437.9	418.6	403.9	393.3	380.8	374.2	368.3	360.2
35°	488.5	453.0	423.1	402.7	384.4	372.4	360.1	352.7	340.7	335.8	332.6
37.5°	442.6	411.8	389.5	368.0	353.5	340.3	332.7	320.9	315.8	308.9	302.2
40°	416.7	386.4	365.0	347.4	331.2	321.3	311.9	302.4	294.6	291.4	283.3
42.5°	390.3	365.6	344.1	324.9	314.1	303.6	291.6	284.6	276.5	271.5	266.5
45°	353.7	332.0	313.6	297.7	285.8	274.9	267.1	255.5	251.0	240.7	236.5
47.5°	321.6	301.3	283.9	268.8	257.1	250.1	238.7	229.6	222.3	216.0	210.7
50°	298.8	281.9	265.0	251.7	241.1	230.9	219.3	214.7	203.4	200.3	197.1
52.5°	278.0	261.9	246.5	233.4	222.8	212.9	202.6	196.7	189.1	185.9	183.6
55°	248.8	233.4	218.6	207.0	196.4	186.2	179.8	172.5	168.9	166.5	163.6
57.5°	219.5	205.7	194.3	182.6	171.9	163.8	156.5	152.0	148.4	145.2	141.8
60°	201.0	187.6	177.4	166.5	155.6	148.9	143.3	138.0	133.7	128.8	127.4
62.5°	181.3	169.6	160.2	149.6	140.1	133.9	128.7	123.7	118.6	111.4	109.4
65°	154.2	145.1	135.2	126.4	117.9	112.0	104.2	98.6	96.4	95.8	95.4
67.5°	129.7	121.0	112.5	103.6	95.9	90.3	86.3	85.5	84.1	83.6	82.7
70°	113.3	105.3	96.8	88.3	81.0	79.9	78.5	77.1	75.3	74.6	73.9
72.5°	98.7	90.3	81.9	75.1	71.9	70.6	69.2	67.8	66.6	65.9	65.5
75°	75.7	68.0	62.3	59.9	58.1	57.0	55.0	53.8	53.2	52.1	51.7
77.5°	54.5	50.1	47.5	46.0	44.1	43.0	41.8	40.7	40.0	39.8	39.2
80°	41.6	39.4	37.7	35.5	34.9	33.5	33.1	32.0	32.4	31.3	31.3
82.5°	32.2	29.6	28.1	27.1	26.4	25.3	24.9	24.4	24.5	23.8	23.8
85°	16.6	15.8	15.2	14.4	14.4	13.4	13.8	13.4	13.4	12.6	12.3
87.5°	8.2	8.9	9.5	10.7	11.9	12.8	12.6	12.3	12.2	12.1	11.8
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: P331798-830

CATALOG NUMBER: S122RDIW-S485D1240U830-4F0-1E-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: P331798-830

CATALOG NUMBER: S122RDIW-S485D1240U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0
2.5°	972.7	973.3	972.4	973.0	972.4	973.3	972.7	975.8	976.4	976.9	976.4
5°	906.3	902.1	901.4	900.4	901.4	902.1	906.3	908.1	909.6	912.3	917.3
7.5°	827.1	826.4	824.7	822.2	824.7	826.4	827.1	833.1	837.9	843.4	853.5
10°	776.1	774.4	774.0	771.6	774.0	774.4	776.1	783.8	789.5	797.2	811.0
12.5°	716.4	705.1	703.9	697.8	703.9	705.1	716.4	726.4	741.6	749.0	763.6
15°	610.0	607.8	600.9	596.3	600.9	607.8	610.0	618.4	624.1	644.5	668.1
17.5°	549.1	542.2	540.1	539.1	540.1	542.2	549.1	553.3	561.3	572.0	586.3
20°	510.0	503.7	502.7	501.9	502.7	503.7	510.0	514.9	521.3	532.9	547.7
22.5°	483.0	476.4	473.6	471.6	473.6	476.4	483.0	486.8	492.6	501.6	511.6
25°	436.8	434.3	432.9	432.3	432.9	434.3	436.8	440.4	445.9	458.3	468.8
27.5°	400.7	395.3	394.2	392.4	394.2	395.3	400.7	407.0	412.8	418.4	427.8
30°	380.1	378.3	375.9	373.8	375.9	378.3	380.1	383.3	387.2	396.7	405.9
32.5°	355.9	354.5	352.2	351.3	352.2	354.5	355.9	360.2	368.3	374.2	380.8
35°	329.1	324.1	322.1	318.9	322.1	324.1	329.1	332.6	335.8	340.7	352.7
37.5°	300.8	298.1	295.2	296.2	295.2	298.1	300.8	302.2	308.9	315.8	320.9
40°	278.8	277.0	276.3	276.0	276.3	277.0	278.8	283.3	291.4	294.6	302.4
42.5°	261.3	256.5	254.6	254.6	254.6	256.5	261.3	266.5	271.5	276.5	284.6
45°	234.8	230.2	227.1	227.3	227.1	230.2	234.8	236.5	240.7	251.0	255.5
47.5°	207.6	207.5	205.5	206.1	205.5	207.5	207.6	210.7	216.0	222.3	229.6
50°	194.6	192.6	191.1	191.4	191.1	192.6	194.6	197.1	200.3	203.4	214.7
52.5°	182.3	180.4	179.3	180.8	179.3	180.4	182.3	183.6	185.9	189.1	196.7
55°	161.9	159.8	159.5	159.1	159.5	159.8	161.9	163.6	166.5	168.9	172.5
57.5°	139.2	137.8	135.6	134.8	135.6	137.8	139.2	141.8	145.2	148.4	152.0
60°	122.8	120.0	116.5	116.1	116.5	120.0	122.8	127.4	128.8	133.7	138.0
62.5°	107.9	107.4	106.7	106.6	106.7	107.4	107.9	109.4	111.4	118.6	123.7
65°	94.7	94.3	94.7	95.0	94.7	94.3	94.7	95.4	95.8	96.4	98.6
67.5°	82.5	81.9	81.2	81.5	81.2	81.9	82.5	82.7	83.6	84.1	85.5
70°	73.2	72.9	72.5	72.5	72.5	72.9	73.2	73.9	74.6	75.3	77.1
72.5°	64.2	64.1	63.8	63.5	63.8	64.1	64.2	65.5	65.9	66.6	67.8
75°	51.4	50.7	50.7	50.7	50.7	50.7	51.4	51.7	52.1	53.2	53.8
77.5°	39.1	38.8	38.5	38.2	38.5	38.8	39.1	39.2	39.8	40.0	40.7
80°	31.0	30.6	30.3	30.3	30.3	30.6	31.0	31.3	31.3	32.4	32.0
82.5°	23.7	23.3	23.2	22.9	23.2	23.3	23.7	23.8	23.8	24.5	24.4
85°	12.6	13.0	12.6	13.4	12.6	13.0	12.6	12.3	12.6	13.4	13.4
87.5°	11.8	11.6	11.9	11.7	11.9	11.6	11.8	11.8	12.1	12.2	12.3
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



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**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



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0
2.5°	974.1	978.1	984.0	987.4	993.0	996.6	998.6	1002.3	1004.3	1011.3	1018.6
5°	919.7	925.4	935.2	944.3	954.2	964.4	971.9	980.2	988.0	1001.4	1015.5
7.5°	857.3	865.2	880.4	895.0	912.2	926.6	939.3	953.8	966.7	985.8	1005.8
10°	810.6	824.3	844.4	858.1	880.6	895.0	915.1	930.9	949.0	974.3	996.8
12.5°	770.3	786.9	803.0	822.1	842.4	866.4	888.4	908.7	930.1	956.3	982.7
15°	697.3	721.2	746.2	765.5	793.1	818.3	844.0	871.5	897.6	928.9	963.4
17.5°	603.2	630.9	673.0	706.2	738.4	763.8	795.6	828.9	859.5	897.3	935.7
20°	560.7	581.1	609.6	654.3	702.9	730.0	762.4	799.0	834.2	875.3	916.5
22.5°	526.6	544.8	567.7	602.5	656.8	693.7	727.5	764.7	805.5	847.5	893.2
25°	478.0	490.7	514.6	542.7	580.0	640.9	677.9	715.2	759.6	804.6	856.7
27.5°	441.5	452.9	468.4	495.3	523.0	566.8	625.6	666.2	710.4	761.1	815.2
30°	413.6	427.0	444.2	463.2	493.5	527.6	586.4	633.6	677.2	729.3	787.0
32.5°	393.3	403.9	418.6	437.9	463.1	495.8	542.7	600.0	642.5	697.5	757.7
35°	360.1	372.4	384.4	402.7	423.1	453.0	488.5	549.8	592.0	646.2	706.8
37.5°	332.7	340.3	353.5	368.0	389.5	411.8	442.6	497.6	543.3	596.4	658.5
40°	311.9	321.3	331.2	347.4	365.0	386.4	416.7	457.6	510.0	562.1	622.6
42.5°	291.6	303.6	314.1	324.9	344.1	365.6	390.3	424.9	478.4	527.7	586.6
45°	267.1	274.9	285.8	297.7	313.6	332.0	353.7	384.0	435.4	478.0	533.3
47.5°	238.7	250.1	257.1	268.8	283.9	301.3	321.6	347.8	389.5	429.3	480.6
50°	219.3	230.9	241.1	251.7	265.0	281.9	298.8	324.1	357.6	399.5	447.3
52.5°	202.6	212.9	222.8	233.4	246.5	261.9	278.0	300.2	328.9	367.4	413.9
55°	179.8	186.2	196.4	207.0	218.6	233.4	248.8	267.5	292.2	324.5	362.2
57.5°	156.5	163.8	171.9	182.6	194.3	205.7	219.5	236.5	255.9	285.2	317.4
60°	143.3	148.9	155.6	166.5	177.4	187.6	201.0	215.1	233.4	258.7	286.2
62.5°	128.7	133.9	140.1	149.6	160.2	169.6	181.3	196.2	211.7	234.8	258.8
65°	104.2	112.0	117.9	126.4	135.2	145.1	154.2	166.2	179.8	198.1	219.6
67.5°	86.3	90.3	95.9	103.6	112.5	121.0	129.7	139.0	150.9	165.0	182.1
70°	78.5	79.9	81.0	88.3	96.8	105.3	113.3	122.2	132.3	143.9	158.7
72.5°	69.2	70.6	71.9	75.1	81.9	90.3	98.7	105.3	114.9	124.5	136.5
75°	55.0	57.0	58.1	59.9	62.3	68.0	75.7	82.0	87.7	95.0	104.5
77.5°	41.8	43.0	44.1	46.0	47.5	50.1	54.5	60.2	65.5	69.7	76.3
80°	33.1	33.5	34.9	35.5	37.7	39.4	41.6	46.1	51.4	53.2	57.7
82.5°	24.9	25.3	26.4	27.1	28.1	29.6	32.2	33.5	37.6	39.9	42.8
85°	13.8	13.4	14.4	14.4	15.2	15.8	16.6	18.3	19.3	22.1	22.9
87.5°	12.6	12.8	11.9	10.7	9.5	8.9	8.2	7.8	7.7	7.9	8.4
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: P331798-830

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**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: P331798-830

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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0
2.5°	1018.9	1019.7	1025.4	1027.9	1033.0	1035.0	1037.2	1036.6	1036.6	1037.7	1045.7
5°	1021.1	1028.1	1038.7	1048.9	1058.8	1067.2	1072.8	1078.5	1080.5	1090.8	1099.9
7.5°	1017.5	1030.4	1047.8	1063.4	1082.0	1096.6	1108.7	1119.6	1127.1	1142.0	1157.2
10°	1012.7	1031.0	1050.7	1070.7	1096.5	1115.8	1135.5	1150.7	1155.6	1177.7	1190.4
12.5°	1003.1	1027.6	1052.6	1078.6	1103.7	1130.4	1152.1	1167.2	1184.6	1204.5	1227.9
15°	988.7	1016.9	1049.6	1083.1	1119.0	1151.3	1174.6	1201.0	1219.9	1241.8	1262.2
17.5°	968.1	1004.4	1045.9	1084.7	1126.1	1160.9	1193.0	1218.2	1231.6	1244.1	1247.2
20°	951.8	990.8	1039.7	1085.5	1127.0	1167.2	1198.8	1219.9	1223.5	1223.8	1205.1
22.5°	934.1	978.2	1029.4	1076.2	1125.9	1170.5	1195.1	1204.2	1190.2	1166.4	1130.3
25°	901.4	952.4	1011.9	1065.5	1119.6	1161.9	1170.4	1154.5	1105.6	1054.1	989.1
27.5°	866.1	923.4	987.2	1046.7	1104.5	1130.7	1112.4	1055.3	967.1	890.6	797.8
30°	840.2	904.6	967.2	1033.8	1087.2	1098.5	1056.7	972.5	869.8	754.3	661.8
32.5°	810.6	878.1	947.0	1015.8	1060.5	1049.5	980.3	876.8	756.3	642.8	555.3
35°	768.4	838.1	912.3	981.3	1009.8	962.3	858.8	724.1	600.9	494.9	434.7
37.5°	719.6	795.5	872.7	936.0	934.1	854.8	713.9	574.7	471.2	408.5	365.6
40°	684.9	761.7	845.1	898.6	875.7	772.6	619.8	488.5	412.8	362.9	331.6
42.5°	651.8	728.8	811.6	854.1	814.4	687.6	535.4	432.5	370.0	331.1	305.7
45°	595.2	676.5	753.3	776.8	705.7	566.0	432.9	358.4	316.8	287.9	270.3
47.5°	540.0	619.9	689.9	690.4	594.2	459.0	365.2	310.1	274.7	252.3	239.5
50°	506.1	582.2	640.9	631.8	522.7	408.3	326.6	279.1	249.6	232.3	219.0
52.5°	468.2	541.9	592.8	566.8	462.1	359.3	292.0	252.1	227.6	212.6	200.7
55°	412.8	478.3	514.3	474.9	377.0	298.8	246.8	215.4	197.1	184.5	174.3
57.5°	358.6	412.6	435.2	389.3	310.5	247.8	208.7	185.2	167.0	158.0	152.7
60°	324.5	370.6	386.4	335.8	269.9	216.8	184.8	163.0	149.6	143.6	138.4
62.5°	291.1	328.7	335.3	288.8	235.4	189.8	162.3	143.8	135.0	129.2	124.2
65°	241.5	268.5	265.4	228.1	186.2	150.6	130.5	119.3	112.6	104.5	95.8
67.5°	198.8	215.4	205.4	177.4	142.1	117.1	104.0	95.5	87.2	79.5	77.5
70°	171.7	181.3	170.7	145.1	116.5	98.2	87.7	77.5	72.5	70.8	67.6
72.5°	145.9	149.2	137.8	115.7	94.8	81.3	71.1	65.3	62.7	61.2	59.1
75°	109.4	107.0	97.2	79.9	65.8	56.6	53.5	51.4	49.7	48.3	47.1
77.5°	76.9	73.2	64.5	53.3	45.8	41.5	39.6	38.5	37.6	36.9	35.8
80°	57.7	55.2	46.5	38.0	34.9	32.7	31.7	30.3	30.3	29.6	28.5
82.5°	42.2	39.5	31.9	27.9	26.1	24.9	24.0	23.2	22.9	23.1	22.3
85°	22.1	17.9	15.8	15.2	14.0	13.4	13.8	13.0	13.0	13.0	12.6
87.5°	7.6	6.9	7.3	7.6	8.9	10.1	10.9	12.2	13.7	13.2	13.4
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





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**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



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0
2.5°	1048.5	1052.2	1053.9	1053.9	1055.8	1055.0	1054.1
5°	1108.7	1115.4	1116.8	1123.1	1127.8	1126.3	1127.0
7.5°	1168.7	1179.4	1190.1	1194.9	1195.7	1198.5	1199.6
10°	1205.5	1214.4	1230.9	1228.4	1240.8	1247.7	1236.1
12.5°	1241.0	1252.9	1264.4	1267.5	1274.5	1276.8	1272.1
15°	1273.1	1279.4	1280.2	1278.4	1280.5	1278.7	1272.1
17.5°	1243.1	1232.8	1212.0	1202.1	1194.3	1182.8	1178.2
20°	1193.5	1163.3	1128.1	1114.0	1097.5	1065.1	1072.8
22.5°	1086.6	1052.1	1016.9	975.7	956.1	925.4	923.6
25°	920.1	860.6	795.1	749.3	722.6	692.0	678.6
27.5°	715.4	640.5	586.8	559.7	534.9	510.7	509.6
30°	580.8	524.4	483.0	459.7	444.6	434.3	436.5
32.5°	489.6	450.9	422.9	403.7	392.5	384.7	384.7
35°	400.2	373.8	355.8	347.8	339.7	334.0	334.4
37.5°	342.5	326.6	316.6	307.7	302.7	299.9	298.3
40°	312.9	299.9	292.2	286.9	282.7	278.8	278.1
42.5°	289.5	278.8	271.0	266.8	263.0	260.1	259.5
45°	256.9	248.2	241.1	236.5	234.8	232.3	232.3
47.5°	228.6	219.9	214.4	211.5	208.5	206.9	206.8
50°	209.4	202.7	197.8	196.0	193.6	192.6	192.2
52.5°	192.3	187.3	183.7	182.6	181.4	180.1	180.3
55°	168.9	166.2	164.8	163.6	161.9	159.8	161.2
57.5°	149.3	146.9	143.1	139.8	138.2	136.7	137.2
60°	135.5	130.5	125.6	121.8	120.7	117.5	117.5
62.5°	118.1	111.1	105.1	102.9	101.9	100.4	100.1
65°	90.8	88.0	86.6	85.2	84.5	84.5	83.8
67.5°	75.2	74.1	72.6	72.2	71.5	71.4	71.1
70°	66.5	65.1	64.4	64.1	63.3	63.7	62.7
72.5°	58.1	56.9	56.8	55.9	55.5	55.5	54.8
75°	45.7	45.7	45.4	45.1	44.4	44.0	44.4
77.5°	35.2	35.3	34.6	34.6	34.5	34.6	34.2
80°	28.2	28.5	28.2	27.8	27.4	27.8	27.4
82.5°	22.2	21.8	21.7	21.6	21.6	21.3	21.3
85°	12.6	13.0	12.6	12.3	12.3	12.3	12.6
87.5°	13.0	12.9	12.9	12.9	13.0	13.0	12.8
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



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**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)