

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: P331513-940

Luminaire Tested: **S122DIW-S485D1240U940-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331513-940  
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: S122DIW-S485D1240U940-4F0-1E-UDD-A  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1240 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6333.1 lumens  
Efficiency: N/A  
Efficacy: 117.7 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Indirect

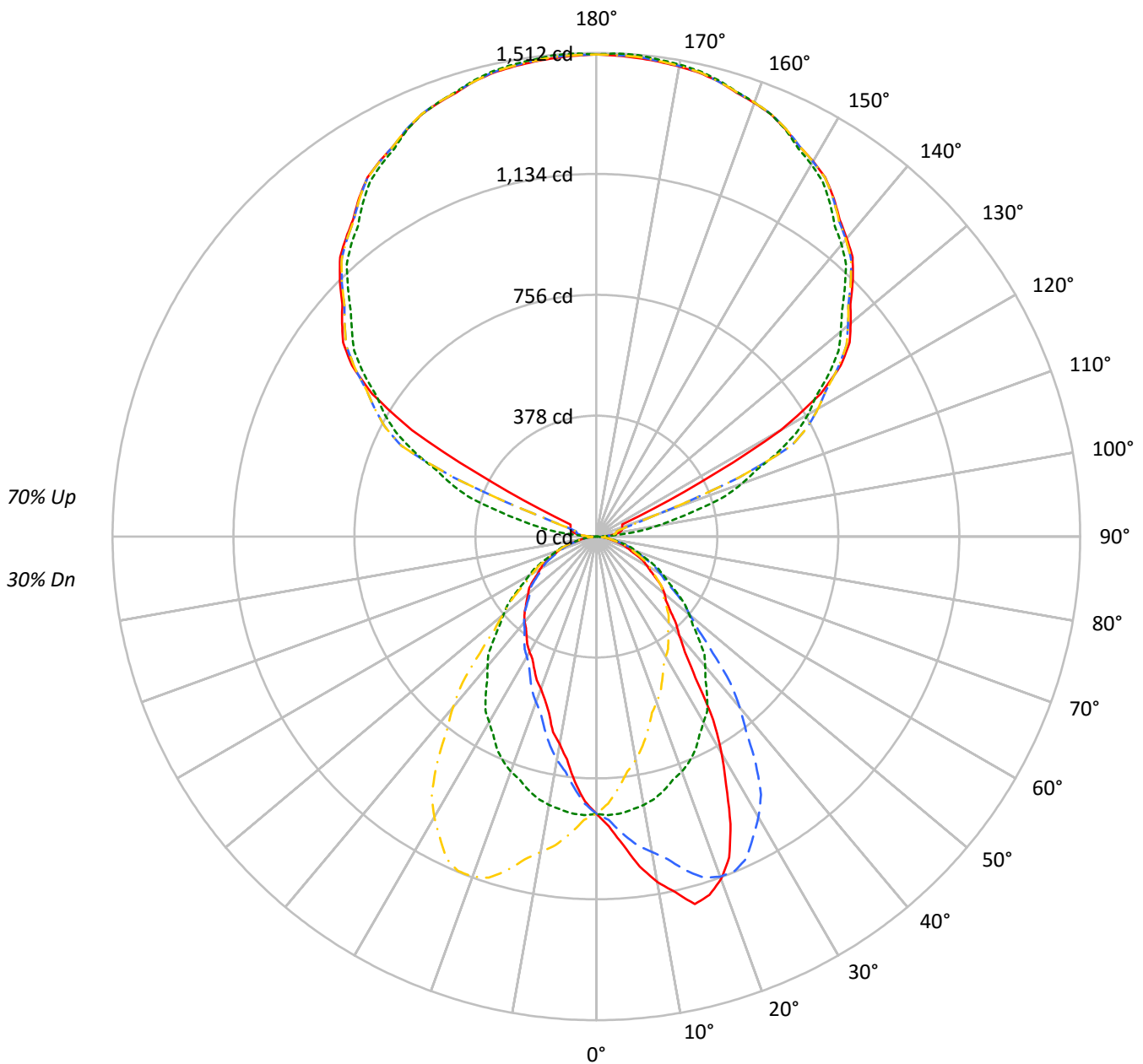
Input Watts (W): 53.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot



— 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	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	77	75	64	62	60	48	47	46	34	33	33	26				
2	85	78	73	68	77	71	66	62	56	53	50	43	41	39	30	29	28	22				
3	78	69	62	57	70	62	57	52	50	46	42	38	35	33	27	25	24	19				
4	72	61	54	48	64	55	49	44	44	40	36	34	31	28	24	22	21	17				
5	66	55	47	41	59	49	43	38	40	35	31	31	27	25	22	20	18	15				
6	60	49	41	36	54	44	38	33	36	31	27	28	24	22	20	18	16	13				
7	56	44	37	31	50	40	34	29	32	28	24	25	22	19	18	16	15	12				
8	52	40	33	28	46	36	30	26	30	25	21	23	20	17	17	15	13	11				
9	48	37	29	25	43	33	27	23	27	22	19	21	18	15	16	13	12	10				
10	45	33	27	22	40	30	24	20	25	20	17	20	16	14	15	12	11	9				

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

	0°	90°	180°	270°
0°	13990	13990	13990	13990
5°	15686	14083	12478	14083
10°	17974	13967	10799	13967
15°	19883	13710	9541	13710
20°	19581	13435	8698	13435
25°	17655	13069	8165	13069
30°	14590	12486	7774	12486
35°	10634	11874	7496	11874
40°	8494	11152	7341	11152
45°	7421	10319	7133	10319
50°	6978	9510	6993	9510
55°	6432	8690	6804	8690
60°	5893	7818	6516	7818
65°	5368	7033	6235	7033
70°	4877	6274	5816	6274
75°	4323	5421	5153	5421
80°	3710	4491	4147	4491
85°	3335	3335	2464	3335



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.5	1.3
10°-20°	239.9	3.8
20°-30°	348.2	5.5
30°-40°	367.4	5.8
40°-50°	325.3	5.1
50°-60°	259.6	4.1
60°-70°	176.5	2.8
70°-80°	90.5	1.4
80°-90°	25.5	0.4
90°-100°	50.3	0.8
100°-110°	184.4	2.9
110°-120°	492.9	7.8
120°-130°	813.7	12.8
130°-140°	865.3	13.7
140°-150°	804.3	12.7
150°-160°	646.7	10.2
160°-170°	416.7	6.6
170°-180°	143.4	2.3
0°-30°	670.6	10.6
0°-40°	1038.0	16.4
0°-60°	1623.0	25.6
0°-90°	1915.4	30.2
90°-120°	727.6	11.5
90°-150°	3210.9	50.7
90°-180°	4418.0	69.8
0°-180°	6333.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	866	866	866	866	866	
5°	968	869	770	869	968	97
15°	1190	820	571	820	1190	328
25°	991	734	458	734	991	448
35°	540	602	380	602	540	351
45°	325	452	312	452	325	256
55°	228	309	242	309	228	205
65°	140	184	163	184	140	140
75°	69	87	83	87	69	74
85°	18	18	13	18	18	20
90°	29	1	29	1	29	14
95°	47	71	47	71	47	44
105°	83	332	83	332	83	86
115°	89	627	89	627	89	224
125°	933	887	933	887	933	807
135°	1133	1097	1133	1097	1133	874
145°	1293	1273	1293	1273	1293	808
155°	1403	1402	1403	1402	1403	647
165°	1474	1477	1474	1477	1474	416
175°	1502	1511	1502	1511	1502	143
180°	1507	1507	1507	1507	1507	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5
2.5°	906.5	906.8	907.2	903.0	902.5	902.5	898.8	895.5	891.8	886.7	887.3
5°	967.8	971.4	972.8	968.8	962.8	962.1	956.4	947.1	938.4	931.5	926.5
7.5°	1040.9	1042.3	1039.1	1033.8	1029.4	1021.4	1010.8	1000.5	986.1	972.8	963.0
10°	1096.3	1098.3	1092.6	1084.9	1078.6	1069.3	1054.0	1038.3	1019.4	1001.0	986.4
12.5°	1138.4	1143.4	1136.0	1135.1	1124.2	1111.4	1093.1	1085.2	1058.5	1033.0	1017.3
15°	1189.5	1189.2	1189.9	1183.6	1175.5	1173.6	1154.2	1133.3	1095.6	1080.7	1054.6
17.5°	1174.7	1179.8	1182.1	1182.1	1181.9	1180.6	1174.4	1161.2	1142.3	1118.0	1088.1
20°	1139.6	1146.2	1147.3	1154.9	1159.2	1164.9	1167.2	1163.6	1151.9	1131.6	1105.6
22.5°	1085.2	1087.1	1090.2	1102.2	1111.5	1125.7	1133.1	1145.4	1140.9	1131.0	1109.4
25°	991.0	987.7	999.3	1005.4	1027.0	1049.6	1066.0	1084.0	1099.9	1109.6	1103.3
27.5°	878.0	873.0	890.5	906.3	923.9	948.4	973.8	1003.9	1028.9	1060.2	1070.9
30°	782.6	785.6	802.3	819.2	845.9	880.5	909.1	942.1	977.8	1012.7	1037.0
32.5°	679.8	691.3	701.8	727.8	751.3	789.9	831.9	873.1	917.6	957.3	994.9
35°	539.5	552.8	567.5	586.5	619.4	657.7	698.7	754.3	814.9	869.2	913.8
37.5°	454.1	452.0	460.4	474.1	500.8	531.7	578.8	633.8	705.2	768.9	831.9
40°	403.0	401.6	407.6	420.3	440.6	463.2	504.5	552.8	619.1	697.0	772.0
42.5°	367.7	368.5	371.9	380.8	394.8	413.4	444.3	485.4	546.1	619.5	700.0
45°	325.0	327.3	331.0	335.4	343.3	358.6	375.9	405.3	453.3	514.5	593.8
47.5°	294.3	294.4	298.0	301.8	306.6	315.2	329.4	347.8	381.6	431.5	499.6
50°	277.8	275.4	278.0	281.1	286.1	292.0	301.4	318.7	341.3	381.7	438.5
52.5°	257.5	257.5	259.9	261.1	265.6	271.5	280.1	292.0	312.5	344.1	390.9
55°	228.5	230.2	231.5	233.4	237.5	241.7	248.4	256.5	272.4	296.0	330.6
57.5°	201.2	201.7	203.0	206.8	209.4	213.3	219.6	226.9	237.3	254.9	280.9
60°	182.5	182.5	185.1	186.8	190.1	194.1	199.1	206.2	215.4	229.8	250.7
62.5°	165.4	165.1	166.2	169.0	171.5	175.2	180.2	186.2	194.9	207.7	224.9
65°	140.5	139.9	141.9	142.5	145.2	148.8	152.8	159.2	166.2	175.5	190.8
67.5°	116.5	117.3	118.4	119.7	121.2	125.0	127.7	132.2	138.0	145.8	156.2
70°	103.3	103.3	103.3	104.2	106.2	108.3	110.9	114.6	120.2	126.9	136.2
72.5°	88.3	89.3	90.4	89.9	92.4	93.5	96.8	98.8	104.2	108.5	116.7
75°	69.3	69.3	69.3	70.9	72.0	72.9	74.9	77.0	79.6	84.9	89.3
77.5°	51.7	51.5	51.9	52.3	53.3	54.6	55.1	57.0	59.4	61.9	65.5
80°	39.9	40.7	40.9	41.6	41.6	42.3	42.6	44.9	46.6	48.3	50.6
82.5°	30.9	31.0	31.1	31.2	31.5	31.9	32.7	33.5	34.1	35.5	37.3
85°	18.0	17.7	17.7	18.3	18.0	18.0	18.6	19.4	19.4	19.6	20.7
87.5°	12.8	12.8	12.9	12.5	12.4	12.5	12.3	11.8	11.8	11.9	11.7
90°	29.4	29.0	28.4	28.0	27.6	26.7	25.4	24.3	23.0	21.8	19.9
92.5°	29.4	29.2	28.9	28.5	28.3	27.8	27.2	26.6	25.9	25.3	24.3
95°	46.9	47.2	47.3	47.6	47.9	47.3	46.2	44.9	43.8	42.5	40.8
97.5°	62.6	62.3	62.1	61.7	61.4	60.8	59.8	58.9	57.9	57.0	53.1
100°	73.1	72.6	72.1	71.6	71.2	69.9	67.9	66.1	64.1	62.2	58.1
102.5°	78.3	77.7	77.0	76.2	75.6	74.0	71.5	68.9	66.4	63.9	58.4
105°	82.9	81.9	81.0	80.0	79.0	77.2	74.5	71.9	69.2	66.5	61.7
107.5°	85.3	84.4	83.4	82.4	81.4	82.3	85.0	87.7	90.4	93.2	100.0
110°	86.1	85.2	84.3	83.3	82.3	93.9	118.2	142.4	166.7	190.9	260.9



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	87.0	86.2	85.5	84.7	83.9	127.8	216.2	304.6	393.1	481.4	498.8
115°	89.4	106.9	124.4	141.8	159.3	224.1	336.4	448.5	560.8	673.1	667.0
117.5°	365.2	422.6	479.9	537.3	594.6	636.9	664.0	691.2	718.3	745.5	741.3
120°	665.4	698.1	730.8	763.6	796.3	811.2	808.2	805.4	802.5	799.5	795.2
122.5°	830.3	836.7	843.0	849.4	855.7	858.0	856.3	854.5	852.7	851.0	846.3
125°	932.6	931.9	931.2	930.4	929.7	928.5	926.8	925.1	923.5	921.8	917.1
127.5°	997.2	997.0	996.9	996.8	996.7	995.3	992.8	990.3	987.9	985.4	982.0
130°	1037.3	1037.6	1037.9	1038.0	1038.3	1037.1	1034.5	1031.8	1029.1	1026.4	1023.8
132.5°	1076.7	1076.8	1077.1	1077.4	1077.5	1076.6	1074.2	1072.0	1069.7	1067.5	1064.8
135°	1133.4	1133.8	1134.3	1134.8	1135.2	1134.3	1131.8	1129.4	1127.0	1124.6	1122.4
137.5°	1185.0	1185.9	1186.7	1187.5	1188.3	1187.6	1185.2	1182.8	1180.4	1178.0	1175.5
140°	1217.4	1218.5	1219.8	1220.9	1222.2	1221.7	1219.5	1217.4	1215.1	1213.0	1210.3
142.5°	1248.8	1249.9	1251.2	1252.4	1253.6	1253.2	1251.2	1249.2	1247.2	1245.3	1242.2
145°	1292.6	1293.8	1295.0	1296.2	1297.4	1297.2	1295.5	1293.8	1292.1	1290.4	1286.3
147.5°	1331.2	1332.2	1333.2	1334.3	1335.2	1335.2	1333.9	1332.7	1331.4	1330.1	1326.1
150°	1354.8	1355.9	1357.2	1358.4	1359.6	1359.5	1358.1	1356.6	1355.1	1353.7	1349.8
152.5°	1374.8	1376.4	1378.0	1379.7	1381.3	1381.3	1379.8	1378.4	1377.0	1375.5	1371.8
155°	1402.8	1404.7	1406.7	1408.5	1410.5	1410.8	1409.3	1407.8	1406.4	1405.0	1402.0
157.5°	1428.3	1430.2	1432.1	1434.0	1435.8	1436.0	1434.3	1432.7	1431.0	1429.4	1427.4
160°	1443.1	1444.8	1446.5	1448.2	1449.9	1450.0	1448.6	1447.2	1445.6	1444.2	1442.8
162.5°	1455.4	1457.4	1459.5	1461.6	1463.7	1463.9	1462.2	1460.6	1458.9	1457.3	1456.1
165°	1473.6	1475.3	1477.0	1478.7	1480.4	1480.4	1478.7	1477.0	1475.3	1473.6	1472.9
167.5°	1485.2	1487.4	1489.6	1491.7	1494.0	1494.2	1492.5	1490.8	1489.1	1487.4	1486.7
170°	1492.2	1494.4	1496.6	1498.8	1500.9	1501.2	1499.5	1497.8	1496.1	1494.4	1493.9
172.5°	1497.4	1499.6	1501.8	1504.0	1506.2	1506.4	1504.7	1503.0	1501.3	1499.6	1499.1
175°	1502.0	1504.4	1506.9	1509.3	1511.7	1512.1	1510.4	1508.7	1507.0	1505.3	1504.9
177.5°	1504.9	1506.6	1508.3	1510.1	1511.8	1512.1	1510.6	1509.3	1508.0	1506.6	1506.4
180°	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5
2.5°	889.1	887.0	885.6	880.9	876.6	872.4	871.0	871.6	865.7	860.1	857.7
5°	923.8	917.1	910.8	901.8	891.2	879.5	873.5	868.9	857.2	844.5	837.2
7.5°	954.8	945.3	933.1	916.2	900.7	882.3	870.7	860.4	843.3	825.5	814.6
10°	973.7	960.7	945.1	924.4	905.4	883.2	867.5	851.9	831.9	810.6	797.3
12.5°	990.0	972.5	957.1	930.6	908.1	880.2	861.7	839.6	818.6	793.3	780.2
15°	1028.7	996.4	967.1	937.1	909.5	870.5	849.9	820.2	792.6	761.3	746.3
17.5°	1058.5	1022.3	976.2	938.1	905.8	862.6	832.3	796.8	764.1	728.3	708.0
20°	1075.7	1034.0	984.4	939.1	900.4	851.2	818.2	781.9	743.6	703.3	681.4
22.5°	1085.7	1042.1	992.9	935.1	889.8	841.9	800.4	760.6	721.8	678.3	655.2
25°	1089.0	1049.0	997.0	931.7	876.5	822.2	772.2	733.6	686.7	646.0	612.4
27.5°	1073.1	1044.5	994.5	925.5	861.1	797.6	742.0	698.2	648.6	604.6	570.7
30°	1053.6	1037.0	988.4	919.1	848.8	780.6	719.3	669.7	620.5	575.8	541.2
32.5°	1023.6	1019.9	977.2	910.1	835.8	759.0	695.6	645.4	590.8	547.0	514.0
35°	964.4	980.4	953.4	889.8	811.2	728.3	659.7	602.4	545.8	503.8	472.9
37.5°	885.2	924.9	917.8	860.1	778.0	694.9	619.1	559.3	505.3	463.0	432.6
40°	830.5	881.2	888.5	837.5	754.7	669.1	588.8	529.1	476.5	437.9	407.2
42.5°	772.0	831.1	851.2	810.4	729.1	641.9	561.6	499.9	447.8	410.2	383.1
45°	673.7	752.0	788.3	764.9	686.3	597.1	514.5	451.9	404.7	369.3	348.3
47.5°	581.8	667.4	716.2	707.9	638.8	550.5	468.9	408.8	362.7	334.6	315.8
50°	516.8	604.8	663.7	666.4	604.8	517.2	435.2	378.6	336.4	310.0	294.7
52.5°	460.4	544.3	608.6	622.7	566.7	482.5	405.1	348.8	311.6	287.4	273.7
55°	386.6	457.5	528.9	554.8	509.9	429.9	358.3	308.7	273.8	257.1	245.1
57.5°	321.5	380.6	446.4	475.1	447.4	379.0	311.8	268.8	240.4	225.8	216.6
60°	287.0	333.7	392.3	426.6	402.6	341.7	283.0	242.1	218.8	205.8	197.2
62.5°	255.1	296.4	345.9	377.3	364.3	306.7	254.3	218.1	198.0	185.8	179.6
65°	210.4	243.1	281.4	310.4	301.8	258.1	215.2	184.1	168.2	158.5	153.6
67.5°	173.3	196.9	223.5	248.8	241.8	210.9	176.5	152.3	140.4	132.1	129.1
70°	149.9	167.8	191.5	211.8	206.2	180.8	153.6	132.9	122.5	115.6	112.5
72.5°	127.5	142.2	160.3	176.9	173.1	152.0	129.3	113.7	105.8	99.3	96.8
75°	96.2	107.5	118.6	129.6	128.6	112.3	98.9	86.9	80.6	75.6	74.6
77.5°	71.1	77.4	84.9	91.4	89.6	80.3	69.8	63.0	58.3	54.9	54.4
80°	54.3	58.0	63.3	67.9	65.6	61.6	53.3	48.3	44.9	41.6	40.3
82.5°	39.3	43.1	46.2	48.8	47.0	43.2	38.1	34.7	32.7	30.4	29.9
85°	20.7	22.6	24.0	24.6	24.0	21.7	19.4	18.0	16.3	15.3	15.0
87.5°	11.6	11.2	10.8	10.9	9.5	9.0	7.4	6.1	6.3	6.6	6.6
90°	17.9	16.0	14.1	11.8	9.1	6.4	3.7	1.1	3.7	6.4	9.1
92.5°	23.4	22.4	21.4	21.0	21.3	21.6	21.8	22.0	21.8	21.6	21.3
95°	39.1	37.5	35.8	38.9	46.9	54.9	62.9	70.9	62.9	54.9	46.9
97.5°	49.0	45.1	41.2	50.6	73.1	95.6	118.2	140.7	118.2	95.6	73.1
100°	53.9	49.8	45.7	60.3	93.5	126.6	159.9	193.1	159.9	126.6	93.5
102.5°	132.9	167.3	201.8	222.6	229.6	236.6	243.6	250.7	243.6	236.6	229.6
105°	198.9	265.1	331.3	360.7	353.4	346.2	338.9	331.6	338.9	346.2	353.4
107.5°	251.9	331.3	410.6	447.4	441.5	435.6	429.7	423.9	429.7	435.6	441.5
110°	331.0	401.1	471.1	503.5	498.5	493.4	488.3	483.2	488.3	493.4	498.5





TEST NUMBER: P331513-940

CATALOG NUMBER: S122DIW-S485D1240U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	516.1	533.4	550.7	557.1	552.6	548.0	543.6	539.0	543.6	548.0	552.6
115°	660.9	654.9	648.8	643.7	639.5	635.4	631.3	627.2	631.3	635.4	639.5
117.5°	737.1	732.9	728.8	724.4	719.8	715.2	710.6	706.0	710.6	715.2	719.8
120°	790.9	786.5	782.1	778.1	774.5	770.8	767.2	763.6	767.2	770.8	774.5
122.5°	841.5	836.8	832.1	827.8	823.9	820.1	816.3	812.4	816.3	820.1	823.9
125°	912.5	907.9	903.3	899.4	896.3	893.1	889.9	886.8	889.9	893.1	896.3
127.5°	978.6	975.1	971.7	968.2	964.7	961.2	957.7	954.2	957.7	961.2	964.7
130°	1021.1	1018.4	1015.7	1012.5	1008.6	1004.8	1000.9	997.0	1000.9	1004.8	1008.6
132.5°	1062.1	1059.4	1056.8	1053.8	1050.5	1047.2	1043.9	1040.6	1043.9	1047.2	1050.5
135°	1120.3	1118.0	1115.9	1112.9	1108.9	1105.1	1101.2	1097.3	1101.2	1105.1	1108.9
137.5°	1173.1	1170.6	1168.1	1165.6	1162.9	1160.1	1157.4	1154.7	1157.4	1160.1	1162.9
140°	1207.6	1205.0	1202.3	1200.0	1198.0	1196.1	1194.2	1192.2	1194.2	1196.1	1198.0
142.5°	1239.1	1236.1	1233.1	1230.7	1228.9	1227.2	1225.4	1223.7	1225.4	1227.2	1228.9
145°	1282.2	1278.1	1273.9	1272.0	1272.2	1272.5	1272.7	1272.9	1272.7	1272.5	1272.2
147.5°	1322.0	1317.9	1313.8	1312.2	1313.1	1314.1	1315.0	1315.9	1315.0	1314.1	1313.1
150°	1345.9	1342.0	1338.2	1337.0	1338.7	1340.5	1342.2	1343.9	1342.2	1340.5	1338.7
152.5°	1368.2	1364.4	1360.8	1359.9	1361.7	1363.6	1365.6	1367.4	1365.6	1363.6	1361.7
155°	1399.1	1396.2	1393.3	1392.9	1395.1	1397.3	1399.5	1401.7	1399.5	1397.3	1395.1
157.5°	1425.3	1423.3	1421.2	1421.1	1423.0	1424.8	1426.6	1428.5	1426.6	1424.8	1423.0
160°	1441.3	1439.8	1438.4	1438.4	1439.8	1441.3	1442.8	1444.2	1442.8	1441.3	1439.8
162.5°	1454.7	1453.5	1452.2	1452.3	1453.8	1455.3	1456.7	1458.2	1456.7	1455.3	1453.8
165°	1472.2	1471.5	1470.8	1471.1	1472.6	1474.0	1475.5	1476.9	1475.5	1474.0	1472.6
167.5°	1486.0	1485.4	1484.7	1485.1	1486.6	1488.0	1489.4	1490.9	1489.4	1488.0	1486.6
170°	1493.4	1492.9	1492.5	1492.9	1494.4	1495.8	1497.3	1498.8	1497.3	1495.8	1494.4
172.5°	1498.6	1498.2	1497.7	1498.2	1499.6	1501.1	1502.5	1504.0	1502.5	1501.1	1499.6
175°	1504.3	1503.9	1503.3	1504.0	1505.7	1507.3	1509.0	1510.7	1509.0	1507.3	1505.7
177.5°	1506.2	1506.0	1505.8	1506.4	1507.8	1509.1	1510.5	1511.8	1510.5	1509.1	1507.8
180°	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4



TEST NUMBER: P331513-940

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5
2.5°	855.1	853.5	847.8	844.9	840.2	835.6	832.7	834.0	835.1	834.6	833.7
5°	830.5	824.2	814.6	806.2	800.2	789.3	784.6	782.3	780.2	777.9	775.6
7.5°	801.4	791.4	777.6	765.7	754.5	740.8	733.1	728.3	723.5	718.3	713.6
10°	780.6	766.6	752.0	735.3	722.0	709.6	698.7	691.3	684.7	678.3	673.7
12.5°	758.8	742.6	724.5	701.8	687.1	669.4	667.8	654.9	644.4	640.5	635.1
15°	724.0	701.3	678.3	651.4	639.7	623.8	613.8	603.8	594.8	588.4	586.7
17.5°	684.5	655.1	632.3	613.0	593.9	577.5	568.3	560.3	552.9	544.4	543.3
20°	654.3	629.1	604.1	587.1	567.5	550.8	539.5	531.5	525.1	520.1	515.9
22.5°	625.9	598.2	575.3	556.7	537.3	523.9	515.0	507.3	502.0	496.5	492.4
25°	580.1	558.5	533.5	512.6	496.5	487.9	480.5	473.9	470.6	466.9	462.3
27.5°	540.1	516.0	492.7	476.4	462.4	454.7	449.5	445.0	441.8	439.7	437.0
30°	511.8	487.5	469.2	453.3	441.6	433.9	430.6	427.9	424.3	422.9	421.6
32.5°	484.6	462.8	447.1	433.3	422.1	417.1	414.1	411.7	408.8	407.5	404.8
35°	446.2	427.9	412.6	404.9	395.9	391.6	389.3	385.9	383.3	382.0	381.7
37.5°	410.1	394.1	384.1	374.3	370.4	367.7	364.6	362.3	361.5	361.3	361.0
40°	386.6	373.6	364.6	356.7	355.0	351.0	348.3	346.3	346.3	346.7	346.3
42.5°	365.3	353.7	345.7	338.9	336.9	334.5	331.8	331.7	332.3	333.3	332.3
45°	333.1	324.7	319.1	315.7	312.0	309.7	309.3	310.4	310.7	311.0	312.0
47.5°	303.3	297.7	292.7	289.0	287.4	287.0	286.6	288.3	289.9	290.5	292.0
50°	285.7	279.4	275.1	272.8	271.4	270.7	271.4	273.4	274.7	276.4	277.4
52.5°	266.0	261.5	258.6	256.7	256.2	256.6	256.7	259.0	261.2	261.7	262.3
55°	238.8	235.4	234.8	231.8	233.1	232.7	234.4	235.8	237.7	239.8	240.1
57.5°	211.6	208.9	207.1	207.4	207.8	209.3	210.6	213.0	215.2	217.2	217.5
60°	193.5	192.2	191.2	191.2	191.8	193.9	195.5	197.8	199.1	200.5	201.4
62.5°	177.0	175.7	174.6	175.1	176.9	178.1	180.0	181.3	182.6	184.0	184.4
65°	150.9	150.2	151.2	151.9	152.2	153.8	156.2	157.2	158.5	159.2	161.5
67.5°	126.8	127.0	126.8	127.8	129.7	130.1	132.2	134.6	134.9	136.2	137.7
70°	110.6	111.2	111.9	112.5	114.2	114.9	116.5	117.5	118.9	119.8	120.9
72.5°	95.7	95.8	96.5	96.3	97.7	99.2	100.6	101.6	102.9	104.2	105.1
75°	73.6	73.6	74.3	74.6	76.2	77.9	77.6	78.3	79.6	81.0	81.6
77.5°	53.8	53.1	53.8	54.0	54.6	56.0	56.3	57.2	58.8	58.3	59.0
80°	40.9	39.9	40.9	41.3	41.3	43.0	43.0	43.6	44.6	43.6	44.6
82.5°	29.2	28.8	29.5	29.6	30.1	30.1	30.7	30.9	31.8	31.4	31.8
85°	14.6	14.4	14.6	14.4	14.6	15.0	15.0	14.6	14.6	15.3	14.4
87.5°	6.9	7.0	7.2	7.6	7.7	7.8	7.8	8.0	8.3	8.0	8.2
90°	11.8	14.1	16.0	17.9	19.9	21.8	23.0	24.3	25.4	26.7	27.6
92.5°	21.0	21.4	22.4	23.4	24.3	25.3	25.9	26.6	27.2	27.8	28.3
95°	38.9	35.8	37.5	39.1	40.8	42.5	43.8	44.9	46.2	47.3	47.9
97.5°	50.6	41.2	45.1	49.0	53.1	57.0	57.9	58.9	59.8	60.8	61.4
100°	60.3	45.7	49.8	53.9	58.1	62.2	64.1	66.1	67.9	69.9	71.2
102.5°	222.6	201.8	167.3	132.9	98.4	63.9	66.4	68.9	71.5	74.0	75.6
105°	360.7	331.3	265.1	198.9	132.7	66.5	69.2	71.9	74.5	77.2	79.0
107.5°	447.4	410.6	331.3	251.9	172.5	93.2	90.4	87.7	85.0	82.3	81.4
110°	503.5	471.1	401.1	331.0	260.9	190.9	166.7	142.4	118.2	93.9	82.3



TEST NUMBER: P331513-940

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	557.1	550.7	533.4	516.1	498.8	481.4	393.1	304.6	216.2	127.8	83.9
115°	643.7	648.8	654.9	660.9	667.0	673.1	560.8	448.5	336.4	224.1	159.3
117.5°	724.4	728.8	732.9	737.1	741.3	745.5	718.3	691.2	664.0	636.9	594.6
120°	778.1	782.1	786.5	790.9	795.2	799.5	802.5	805.4	808.2	811.2	796.3
122.5°	827.8	832.1	836.8	841.5	846.3	851.0	852.7	854.5	856.3	858.0	855.7
125°	899.4	903.3	907.9	912.5	917.1	921.8	923.5	925.1	926.8	928.5	929.7
127.5°	968.2	971.7	975.1	978.6	982.0	985.4	987.9	990.3	992.8	995.3	996.7
130°	1012.5	1015.7	1018.4	1021.1	1023.8	1026.4	1029.1	1031.8	1034.5	1037.1	1038.3
132.5°	1053.8	1056.8	1059.4	1062.1	1064.8	1067.5	1069.7	1072.0	1074.2	1076.6	1077.5
135°	1112.9	1115.9	1118.0	1120.3	1122.4	1124.6	1127.0	1129.4	1131.8	1134.3	1135.2
137.5°	1165.6	1168.1	1170.6	1173.1	1175.5	1178.0	1180.4	1182.8	1185.2	1187.6	1188.3
140°	1200.0	1202.3	1205.0	1207.6	1210.3	1213.0	1215.1	1217.4	1219.5	1221.7	1222.2
142.5°	1230.7	1233.1	1236.1	1239.1	1242.2	1245.3	1247.2	1249.2	1251.2	1253.2	1253.6
145°	1272.0	1273.9	1278.1	1282.2	1286.3	1290.4	1292.1	1293.8	1295.5	1297.2	1297.4
147.5°	1312.2	1313.8	1317.9	1322.0	1326.1	1330.1	1331.4	1332.7	1333.9	1335.2	1335.2
150°	1337.0	1338.2	1342.0	1345.9	1349.8	1353.7	1355.1	1356.6	1358.1	1359.5	1359.6
152.5°	1359.9	1360.8	1364.4	1368.2	1371.8	1375.5	1377.0	1378.4	1379.8	1381.3	1381.3
155°	1392.9	1393.3	1396.2	1399.1	1402.0	1405.0	1406.4	1407.8	1409.3	1410.8	1410.5
157.5°	1421.1	1421.2	1423.3	1425.3	1427.4	1429.4	1431.0	1432.7	1434.3	1436.0	1435.8
160°	1438.4	1438.4	1439.8	1441.3	1442.8	1444.2	1445.6	1447.2	1448.6	1450.0	1449.9
162.5°	1452.3	1452.2	1453.5	1454.7	1456.1	1457.3	1458.9	1460.6	1462.2	1463.9	1463.7
165°	1471.1	1470.8	1471.5	1472.2	1472.9	1473.6	1475.3	1477.0	1478.7	1480.4	1480.4
167.5°	1485.1	1484.7	1485.4	1486.0	1486.7	1487.4	1489.1	1490.8	1492.5	1494.2	1494.0
170°	1492.9	1492.5	1492.9	1493.4	1493.9	1494.4	1496.1	1497.8	1499.5	1501.2	1500.9
172.5°	1498.2	1497.7	1498.2	1498.6	1499.1	1499.6	1501.3	1503.0	1504.7	1506.4	1506.2
175°	1504.0	1503.3	1503.9	1504.3	1504.9	1505.3	1507.0	1508.7	1510.4	1512.1	1511.7
177.5°	1506.4	1505.8	1506.0	1506.2	1506.4	1506.6	1508.0	1509.3	1510.6	1512.1	1511.8
180°	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4



TEST NUMBER: P331513-940

CATALOG NUMBER: S122DIW-S485D1240U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5
2.5°	831.1	830.5	830.5	828.1	830.5	830.5	831.1	833.7	834.6	835.1	834.0
5°	771.0	769.9	768.3	769.9	768.3	769.9	771.0	775.6	777.9	780.2	782.3
7.5°	711.5	707.5	706.9	702.9	706.9	707.5	711.5	713.6	718.3	723.5	728.3
10°	668.1	665.4	665.0	658.7	665.0	665.4	668.1	673.7	678.3	684.7	691.3
12.5°	635.0	628.6	629.9	626.2	629.9	628.6	635.0	635.1	640.5	644.4	654.9
15°	577.7	577.7	576.5	570.8	576.5	577.7	577.7	586.7	588.4	594.8	603.8
17.5°	536.7	536.0	532.8	534.4	532.8	536.0	536.7	543.3	544.4	552.9	560.3
20°	512.2	510.1	506.2	506.2	506.2	510.1	512.2	515.9	520.1	525.1	531.5
22.5°	489.0	488.8	484.6	486.0	484.6	488.8	489.0	492.4	496.5	502.0	507.3
25°	461.9	459.2	457.3	458.3	457.3	459.2	461.9	462.3	466.9	470.6	473.9
27.5°	436.2	434.7	434.6	431.9	434.6	434.7	436.2	437.0	439.7	441.8	445.0
30°	421.2	417.9	418.6	417.0	418.6	417.9	421.2	421.6	422.9	424.3	427.9
32.5°	404.2	403.1	402.3	400.9	402.3	403.1	404.2	404.8	407.5	408.8	411.7
35°	380.9	381.3	379.6	380.3	379.6	381.3	380.9	381.7	382.0	383.3	385.9
37.5°	360.7	361.8	361.0	361.1	361.0	361.8	360.7	361.0	361.3	361.5	362.3
40°	347.3	347.3	347.3	348.3	347.3	347.3	347.3	346.3	346.7	346.3	346.3
42.5°	334.6	334.0	333.5	333.4	333.5	334.0	334.6	332.3	333.3	332.3	331.7
45°	312.7	313.7	314.1	312.4	314.1	313.7	312.7	312.0	311.0	310.7	310.4
47.5°	292.9	293.0	292.9	294.4	292.9	293.0	292.9	292.0	290.5	289.9	288.3
50°	279.1	278.4	279.1	278.4	279.1	278.4	279.1	277.4	276.4	274.7	273.4
52.5°	264.4	264.6	264.1	264.0	264.1	264.6	264.4	262.3	261.7	261.2	259.0
55°	241.5	242.1	241.7	241.7	241.7	242.1	241.5	240.1	239.8	237.7	235.8
57.5°	217.7	218.3	218.7	217.2	218.7	218.3	217.7	217.5	217.2	215.2	213.0
60°	201.2	202.8	202.5	201.8	202.5	202.8	201.2	201.4	200.5	199.1	197.8
62.5°	185.9	186.5	186.5	186.4	186.5	186.5	185.9	184.4	184.0	182.6	181.3
65°	162.5	163.2	162.2	163.2	162.2	163.2	162.5	161.5	159.2	158.5	157.2
67.5°	137.2	137.5	138.2	138.7	138.2	137.5	137.2	137.7	136.2	134.9	134.6
70°	121.5	121.2	122.3	123.2	122.3	121.2	121.5	120.9	119.8	118.9	117.5
72.5°	105.0	105.8	105.4	106.2	105.4	105.8	105.0	105.1	104.2	102.9	101.6
75°	81.0	81.9	81.6	82.6	81.6	81.9	81.0	81.6	81.0	79.6	78.3
77.5°	58.5	58.6	58.5	59.0	58.5	58.6	58.5	59.0	58.3	58.8	57.2
80°	44.6	44.0	43.2	44.6	43.2	44.0	44.6	44.6	43.6	44.6	43.6
82.5°	31.0	31.5	30.8	30.8	30.8	31.5	31.0	31.8	31.4	31.8	30.9
85°	14.4	14.0	13.3	13.3	13.3	14.0	14.4	14.4	15.3	14.6	14.6
87.5°	8.3	8.1	8.2	8.0	8.2	8.1	8.3	8.2	8.0	8.3	8.0
90°	28.0	28.4	29.0	29.4	29.0	28.4	28.0	27.6	26.7	25.4	24.3
92.5°	28.5	28.9	29.2	29.4	29.2	28.9	28.5	28.3	27.8	27.2	26.6
95°	47.6	47.3	47.2	46.9	47.2	47.3	47.6	47.9	47.3	46.2	44.9
97.5°	61.7	62.1	62.3	62.6	62.3	62.1	61.7	61.4	60.8	59.8	58.9
100°	71.6	72.1	72.6	73.1	72.6	72.1	71.6	71.2	69.9	67.9	66.1
102.5°	76.2	77.0	77.7	78.3	77.7	77.0	76.2	75.6	74.0	71.5	68.9
105°	80.0	81.0	81.9	82.9	81.9	81.0	80.0	79.0	77.2	74.5	71.9
107.5°	82.4	83.4	84.4	85.3	84.4	83.4	82.4	81.4	82.3	85.0	87.7
110°	83.3	84.3	85.2	86.1	85.2	84.3	83.3	82.3	93.9	118.2	142.4



TEST NUMBER: P331513-940

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	84.7	85.5	86.2	87.0	86.2	85.5	84.7	83.9	127.8	216.2	304.6
115°	141.8	124.4	106.9	89.4	106.9	124.4	141.8	159.3	224.1	336.4	448.5
117.5°	537.3	479.9	422.6	365.2	422.6	479.9	537.3	594.6	636.9	664.0	691.2
120°	763.6	730.8	698.1	665.4	698.1	730.8	763.6	796.3	811.2	808.2	805.4
122.5°	849.4	843.0	836.7	830.3	836.7	843.0	849.4	855.7	858.0	856.3	854.5
125°	930.4	931.2	931.9	932.6	931.9	931.2	930.4	929.7	928.5	926.8	925.1
127.5°	996.8	996.9	997.0	997.2	997.0	996.9	996.8	996.7	995.3	992.8	990.3
130°	1038.0	1037.9	1037.6	1037.3	1037.6	1037.9	1038.0	1038.3	1037.1	1034.5	1031.8
132.5°	1077.4	1077.1	1076.8	1076.7	1076.8	1077.1	1077.4	1077.5	1076.6	1074.2	1072.0
135°	1134.8	1134.3	1133.8	1133.4	1133.8	1134.3	1134.8	1135.2	1134.3	1131.8	1129.4
137.5°	1187.5	1186.7	1185.9	1185.0	1185.9	1186.7	1187.5	1188.3	1187.6	1185.2	1182.8
140°	1220.9	1219.8	1218.5	1217.4	1218.5	1219.8	1220.9	1222.2	1221.7	1219.5	1217.4
142.5°	1252.4	1251.2	1249.9	1248.8	1249.9	1251.2	1252.4	1253.6	1253.2	1251.2	1249.2
145°	1296.2	1295.0	1293.8	1292.6	1293.8	1295.0	1296.2	1297.4	1297.2	1295.5	1293.8
147.5°	1334.3	1333.2	1332.2	1331.2	1332.2	1333.2	1334.3	1335.2	1335.2	1333.9	1332.7
150°	1358.4	1357.2	1355.9	1354.8	1355.9	1357.2	1358.4	1359.6	1359.5	1358.1	1356.6
152.5°	1379.7	1378.0	1376.4	1374.8	1376.4	1378.0	1379.7	1381.3	1381.3	1379.8	1378.4
155°	1408.5	1406.7	1404.7	1402.8	1404.7	1406.7	1408.5	1410.5	1410.8	1409.3	1407.8
157.5°	1434.0	1432.1	1430.2	1428.3	1430.2	1432.1	1434.0	1435.8	1436.0	1434.3	1432.7
160°	1448.2	1446.5	1444.8	1443.1	1444.8	1446.5	1448.2	1449.9	1450.0	1448.6	1447.2
162.5°	1461.6	1459.5	1457.4	1455.4	1457.4	1459.5	1461.6	1463.7	1463.9	1462.2	1460.6
165°	1478.7	1477.0	1475.3	1473.6	1475.3	1477.0	1478.7	1480.4	1480.4	1478.7	1477.0
167.5°	1491.7	1489.6	1487.4	1485.2	1487.4	1489.6	1491.7	1494.0	1494.2	1492.5	1490.8
170°	1498.8	1496.6	1494.4	1492.2	1494.4	1496.6	1498.8	1500.9	1501.2	1499.5	1497.8
172.5°	1504.0	1501.8	1499.6	1497.4	1499.6	1501.8	1504.0	1506.2	1506.4	1504.7	1503.0
175°	1509.3	1506.9	1504.4	1502.0	1504.4	1506.9	1509.3	1511.7	1512.1	1510.4	1508.7
177.5°	1510.1	1508.3	1506.6	1504.9	1506.6	1508.3	1510.1	1511.8	1512.1	1510.6	1509.3
180°	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4



TEST NUMBER: P331513-940

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5
2.5°	832.7	835.6	840.2	844.9	847.8	853.5	855.1	857.7	860.1	865.7	871.6
5°	784.6	789.3	800.2	806.2	814.6	824.2	830.5	837.2	844.5	857.2	868.9
7.5°	733.1	740.8	754.5	765.7	777.6	791.4	801.4	814.6	825.5	843.3	860.4
10°	698.7	709.6	722.0	735.3	752.0	766.6	780.6	797.3	810.6	831.9	851.9
12.5°	667.8	669.4	687.1	701.8	724.5	742.6	758.8	780.2	793.3	818.6	839.6
15°	613.8	623.8	639.7	651.4	678.3	701.3	724.0	746.3	761.3	792.6	820.2
17.5°	568.3	577.5	593.9	613.0	632.3	655.1	684.5	708.0	728.3	764.1	796.8
20°	539.5	550.8	567.5	587.1	604.1	629.1	654.3	681.4	703.3	743.6	781.9
22.5°	515.0	523.9	537.3	556.7	575.3	598.2	625.9	655.2	678.3	721.8	760.6
25°	480.5	487.9	496.5	512.6	533.5	558.5	580.1	612.4	646.0	686.7	733.6
27.5°	449.5	454.7	462.4	476.4	492.7	516.0	540.1	570.7	604.6	648.6	698.2
30°	430.6	433.9	441.6	453.3	469.2	487.5	511.8	541.2	575.8	620.5	669.7
32.5°	414.1	417.1	422.1	433.3	447.1	462.8	484.6	514.0	547.0	590.8	645.4
35°	389.3	391.6	395.9	404.9	412.6	427.9	446.2	472.9	503.8	545.8	602.4
37.5°	364.6	367.7	370.4	374.3	384.1	394.1	410.1	432.6	463.0	505.3	559.3
40°	348.3	351.0	355.0	356.7	364.6	373.6	386.6	407.2	437.9	476.5	529.1
42.5°	331.8	334.5	336.9	338.9	345.7	353.7	365.3	383.1	410.2	447.8	499.9
45°	309.3	309.7	312.0	315.7	319.1	324.7	333.1	348.3	369.3	404.7	451.9
47.5°	286.6	287.0	287.4	289.0	292.7	297.7	303.3	315.8	334.6	362.7	408.8
50°	271.4	270.7	271.4	272.8	275.1	279.4	285.7	294.7	310.0	336.4	378.6
52.5°	256.7	256.6	256.2	256.7	258.6	261.5	266.0	273.7	287.4	311.6	348.8
55°	234.4	232.7	233.1	231.8	234.8	235.4	238.8	245.1	257.1	273.8	308.7
57.5°	210.6	209.3	207.8	207.4	207.1	208.9	211.6	216.6	225.8	240.4	268.8
60°	195.5	193.9	191.8	191.2	191.2	192.2	193.5	197.2	205.8	218.8	242.1
62.5°	180.0	178.1	176.9	175.1	174.6	175.7	177.0	179.6	185.8	198.0	218.1
65°	156.2	153.8	152.2	151.9	151.2	150.2	150.9	153.6	158.5	168.2	184.1
67.5°	132.2	130.1	129.7	127.8	126.8	127.0	126.8	129.1	132.1	140.4	152.3
70°	116.5	114.9	114.2	112.5	111.9	111.2	110.6	112.5	115.6	122.5	132.9
72.5°	100.6	99.2	97.7	96.3	96.5	95.8	95.7	96.8	99.3	105.8	113.7
75°	77.6	77.9	76.2	74.6	74.3	73.6	73.6	74.6	75.6	80.6	86.9
77.5°	56.3	56.0	54.6	54.0	53.8	53.1	53.8	54.4	54.9	58.3	63.0
80°	43.0	43.0	41.3	41.3	40.9	39.9	40.9	40.3	41.6	44.9	48.3
82.5°	30.7	30.1	30.1	29.6	29.5	28.8	29.2	29.9	30.4	32.7	34.7
85°	15.0	15.0	14.6	14.4	14.6	14.4	14.6	15.0	15.3	16.3	18.0
87.5°	7.8	7.8	7.7	7.6	7.2	7.0	6.9	6.6	6.6	6.3	6.1
90°	23.0	21.8	19.9	17.9	16.0	14.1	11.8	9.1	6.4	3.7	1.1
92.5°	25.9	25.3	24.3	23.4	22.4	21.4	21.0	21.3	21.6	21.8	22.0
95°	43.8	42.5	40.8	39.1	37.5	35.8	38.9	46.9	54.9	62.9	70.9
97.5°	57.9	57.0	53.1	49.0	45.1	41.2	50.6	73.1	95.6	118.2	140.7
100°	64.1	62.2	58.1	53.9	49.8	45.7	60.3	93.5	126.6	159.9	193.1
102.5°	66.4	63.9	98.4	132.9	167.3	201.8	222.6	229.6	236.6	243.6	250.7
105°	69.2	66.5	132.7	198.9	265.1	331.3	360.7	353.4	346.2	338.9	331.6
107.5°	90.4	93.2	172.5	251.9	331.3	410.6	447.4	441.5	435.6	429.7	423.9
110°	166.7	190.9	260.9	331.0	401.1	471.1	503.5	498.5	493.4	488.3	483.2



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	393.1	481.4	498.8	516.1	533.4	550.7	557.1	552.6	548.0	543.6	539.0
115°	560.8	673.1	667.0	660.9	654.9	648.8	643.7	639.5	635.4	631.3	627.2
117.5°	718.3	745.5	741.3	737.1	732.9	728.8	724.4	719.8	715.2	710.6	706.0
120°	802.5	799.5	795.2	790.9	786.5	782.1	778.1	774.5	770.8	767.2	763.6
122.5°	852.7	851.0	846.3	841.5	836.8	832.1	827.8	823.9	820.1	816.3	812.4
125°	923.5	921.8	917.1	912.5	907.9	903.3	899.4	896.3	893.1	889.9	886.8
127.5°	987.9	985.4	982.0	978.6	975.1	971.7	968.2	964.7	961.2	957.7	954.2
130°	1029.1	1026.4	1023.8	1021.1	1018.4	1015.7	1012.5	1008.6	1004.8	1000.9	997.0
132.5°	1069.7	1067.5	1064.8	1062.1	1059.4	1056.8	1053.8	1050.5	1047.2	1043.9	1040.6
135°	1127.0	1124.6	1122.4	1120.3	1118.0	1115.9	1112.9	1108.9	1105.1	1101.2	1097.3
137.5°	1180.4	1178.0	1175.5	1173.1	1170.6	1168.1	1165.6	1162.9	1160.1	1157.4	1154.7
140°	1215.1	1213.0	1210.3	1207.6	1205.0	1202.3	1200.0	1198.0	1196.1	1194.2	1192.2
142.5°	1247.2	1245.3	1242.2	1239.1	1236.1	1233.1	1230.7	1228.9	1227.2	1225.4	1223.7
145°	1292.1	1290.4	1286.3	1282.2	1278.1	1273.9	1272.0	1272.2	1272.5	1272.7	1272.9
147.5°	1331.4	1330.1	1326.1	1322.0	1317.9	1313.8	1312.2	1313.1	1314.1	1315.0	1315.9
150°	1355.1	1353.7	1349.8	1345.9	1342.0	1338.2	1337.0	1338.7	1340.5	1342.2	1343.9
152.5°	1377.0	1375.5	1371.8	1368.2	1364.4	1360.8	1359.9	1361.7	1363.6	1365.6	1367.4
155°	1406.4	1405.0	1402.0	1399.1	1396.2	1393.3	1392.9	1395.1	1397.3	1399.5	1401.7
157.5°	1431.0	1429.4	1427.4	1425.3	1423.3	1421.2	1421.1	1423.0	1424.8	1426.6	1428.5
160°	1445.6	1444.2	1442.8	1441.3	1439.8	1438.4	1438.4	1439.8	1441.3	1442.8	1444.2
162.5°	1458.9	1457.3	1456.1	1454.7	1453.5	1452.2	1452.3	1453.8	1455.3	1456.7	1458.2
165°	1475.3	1473.6	1472.9	1472.2	1471.5	1470.8	1471.1	1472.6	1474.0	1475.5	1476.9
167.5°	1489.1	1487.4	1486.7	1486.0	1485.4	1484.7	1485.1	1486.6	1488.0	1489.4	1490.9
170°	1496.1	1494.4	1493.9	1493.4	1492.9	1492.5	1492.9	1494.4	1495.8	1497.3	1498.8
172.5°	1501.3	1499.6	1499.1	1498.6	1498.2	1497.7	1498.2	1499.6	1501.1	1502.5	1504.0
175°	1507.0	1505.3	1504.9	1504.3	1503.9	1503.3	1504.0	1505.7	1507.3	1509.0	1510.7
177.5°	1508.0	1506.6	1506.4	1506.2	1506.0	1505.8	1506.4	1507.8	1509.1	1510.5	1511.8
180°	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5
2.5°	871.0	872.4	876.6	880.9	885.6	887.0	889.1	887.3	886.7	891.8	895.5
5°	873.5	879.5	891.2	901.8	910.8	917.1	923.8	926.5	931.5	938.4	947.1
7.5°	870.7	882.3	900.7	916.2	933.1	945.3	954.8	963.0	972.8	986.1	1000.5
10°	867.5	883.2	905.4	924.4	945.1	960.7	973.7	986.4	1001.0	1019.4	1038.3
12.5°	861.7	880.2	908.1	930.6	957.1	972.5	990.0	1017.3	1033.0	1058.5	1085.2
15°	849.9	870.5	909.5	937.1	967.1	996.4	1028.7	1054.6	1080.7	1095.6	1133.3
17.5°	832.3	862.6	905.8	938.1	976.2	1022.3	1058.5	1088.1	1118.0	1142.3	1161.2
20°	818.2	851.2	900.4	939.1	984.4	1034.0	1075.7	1105.6	1131.6	1151.9	1163.6
22.5°	800.4	841.9	889.8	935.1	992.9	1042.1	1085.7	1109.4	1131.0	1140.9	1145.4
25°	772.2	822.2	876.5	931.7	997.0	1049.0	1089.0	1103.3	1109.6	1099.9	1084.0
27.5°	742.0	797.6	861.1	925.5	994.5	1044.5	1073.1	1070.9	1060.2	1028.9	1003.9
30°	719.3	780.6	848.8	919.1	988.4	1037.0	1053.6	1037.0	1012.7	977.8	942.1
32.5°	695.6	759.0	835.8	910.1	977.2	1019.9	1023.6	994.9	957.3	917.6	873.1
35°	659.7	728.3	811.2	889.8	953.4	980.4	964.4	913.8	869.2	814.9	754.3
37.5°	619.1	694.9	778.0	860.1	917.8	924.9	885.2	831.9	768.9	705.2	633.8
40°	588.8	669.1	754.7	837.5	888.5	881.2	830.5	772.0	697.0	619.1	552.8
42.5°	561.6	641.9	729.1	810.4	851.2	831.1	772.0	700.0	619.5	546.1	485.4
45°	514.5	597.1	686.3	764.9	788.3	752.0	673.7	593.8	514.5	453.3	405.3
47.5°	468.9	550.5	638.8	707.9	716.2	667.4	581.8	499.6	431.5	381.6	347.8
50°	435.2	517.2	604.8	666.4	663.7	604.8	516.8	438.5	381.7	341.3	318.7
52.5°	405.1	482.5	566.7	622.7	608.6	544.3	460.4	390.9	344.1	312.5	292.0
55°	358.3	429.9	509.9	554.8	528.9	457.5	386.6	330.6	296.0	272.4	256.5
57.5°	311.8	379.0	447.4	475.1	446.4	380.6	321.5	280.9	254.9	237.3	226.9
60°	283.0	341.7	402.6	426.6	392.3	333.7	287.0	250.7	229.8	215.4	206.2
62.5°	254.3	306.7	364.3	377.3	345.9	296.4	255.1	224.9	207.7	194.9	186.2
65°	215.2	258.1	301.8	310.4	281.4	243.1	210.4	190.8	175.5	166.2	159.2
67.5°	176.5	210.9	241.8	248.8	223.5	196.9	173.3	156.2	145.8	138.0	132.2
70°	153.6	180.8	206.2	211.8	191.5	167.8	149.9	136.2	126.9	120.2	114.6
72.5°	129.3	152.0	173.1	176.9	160.3	142.2	127.5	116.7	108.5	104.2	98.8
75°	98.9	112.3	128.6	129.6	118.6	107.5	96.2	89.3	84.9	79.6	77.0
77.5°	69.8	80.3	89.6	91.4	84.9	77.4	71.1	65.5	61.9	59.4	57.0
80°	53.3	61.6	65.6	67.9	63.3	58.0	54.3	50.6	48.3	46.6	44.9
82.5°	38.1	43.2	47.0	48.8	46.2	43.1	39.3	37.3	35.5	34.1	33.5
85°	19.4	21.7	24.0	24.6	24.0	22.6	20.7	20.7	19.6	19.4	19.4
87.5°	7.4	9.0	9.5	10.9	10.8	11.2	11.6	11.7	11.9	11.8	11.8
90°	3.7	6.4	9.1	11.8	14.1	16.0	17.9	19.9	21.8	23.0	24.3
92.5°	21.8	21.6	21.3	21.0	21.4	22.4	23.4	24.3	25.3	25.9	26.6
95°	62.9	54.9	46.9	38.9	35.8	37.5	39.1	40.8	42.5	43.8	44.9
97.5°	118.2	95.6	73.1	50.6	41.2	45.1	49.0	53.1	57.0	57.9	58.9
100°	159.9	126.6	93.5	60.3	45.7	49.8	53.9	58.1	62.2	64.1	66.1
102.5°	243.6	236.6	229.6	222.6	201.8	167.3	132.9	98.4	63.9	66.4	68.9
105°	338.9	346.2	353.4	360.7	331.3	265.1	198.9	132.7	66.5	69.2	71.9
107.5°	429.7	435.6	441.5	447.4	410.6	331.3	251.9	172.5	93.2	90.4	87.7
110°	488.3	493.4	498.5	503.5	471.1	401.1	331.0	260.9	190.9	166.7	142.4





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	543.6	548.0	552.6	557.1	550.7	533.4	516.1	498.8	481.4	393.1	304.6
115°	631.3	635.4	639.5	643.7	648.8	654.9	660.9	667.0	673.1	560.8	448.5
117.5°	710.6	715.2	719.8	724.4	728.8	732.9	737.1	741.3	745.5	718.3	691.2
120°	767.2	770.8	774.5	778.1	782.1	786.5	790.9	795.2	799.5	802.5	805.4
122.5°	816.3	820.1	823.9	827.8	832.1	836.8	841.5	846.3	851.0	852.7	854.5
125°	889.9	893.1	896.3	899.4	903.3	907.9	912.5	917.1	921.8	923.5	925.1
127.5°	957.7	961.2	964.7	968.2	971.7	975.1	978.6	982.0	985.4	987.9	990.3
130°	1000.9	1004.8	1008.6	1012.5	1015.7	1018.4	1021.1	1023.8	1026.4	1029.1	1031.8
132.5°	1043.9	1047.2	1050.5	1053.8	1056.8	1059.4	1062.1	1064.8	1067.5	1069.7	1072.0
135°	1101.2	1105.1	1108.9	1112.9	1115.9	1118.0	1120.3	1122.4	1124.6	1127.0	1129.4
137.5°	1157.4	1160.1	1162.9	1165.6	1168.1	1170.6	1173.1	1175.5	1178.0	1180.4	1182.8
140°	1194.2	1196.1	1198.0	1200.0	1202.3	1205.0	1207.6	1210.3	1213.0	1215.1	1217.4
142.5°	1225.4	1227.2	1228.9	1230.7	1233.1	1236.1	1239.1	1242.2	1245.3	1247.2	1249.2
145°	1272.7	1272.5	1272.2	1272.0	1273.9	1278.1	1282.2	1286.3	1290.4	1292.1	1293.8
147.5°	1315.0	1314.1	1313.1	1312.2	1313.8	1317.9	1322.0	1326.1	1330.1	1331.4	1332.7
150°	1342.2	1340.5	1338.7	1337.0	1338.2	1342.0	1345.9	1349.8	1353.7	1355.1	1356.6
152.5°	1365.6	1363.6	1361.7	1359.9	1360.8	1364.4	1368.2	1371.8	1375.5	1377.0	1378.4
155°	1399.5	1397.3	1395.1	1392.9	1393.3	1396.2	1399.1	1402.0	1405.0	1406.4	1407.8
157.5°	1426.6	1424.8	1423.0	1421.1	1421.2	1423.3	1425.3	1427.4	1429.4	1431.0	1432.7
160°	1442.8	1441.3	1439.8	1438.4	1438.4	1439.8	1441.3	1442.8	1444.2	1445.6	1447.2
162.5°	1456.7	1455.3	1453.8	1452.3	1452.2	1453.5	1454.7	1456.1	1457.3	1458.9	1460.6
165°	1475.5	1474.0	1472.6	1471.1	1470.8	1471.5	1472.2	1472.9	1473.6	1475.3	1477.0
167.5°	1489.4	1488.0	1486.6	1485.1	1484.7	1485.4	1486.0	1486.7	1487.4	1489.1	1490.8
170°	1497.3	1495.8	1494.4	1492.9	1492.5	1492.9	1493.4	1493.9	1494.4	1496.1	1497.8
172.5°	1502.5	1501.1	1499.6	1498.2	1497.7	1498.2	1498.6	1499.1	1499.6	1501.3	1503.0
175°	1509.0	1507.3	1505.7	1504.0	1503.3	1503.9	1504.3	1504.9	1505.3	1507.0	1508.7
177.5°	1510.5	1509.1	1507.8	1506.4	1505.8	1506.0	1506.2	1506.4	1506.6	1508.0	1509.3
180°	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	866.5	866.5	866.5	866.5	866.5	866.5	866.5
2.5°	898.8	902.5	902.5	903.0	907.2	906.8	906.5
5°	956.4	962.1	962.8	968.8	972.8	971.4	967.8
7.5°	1010.8	1021.4	1029.4	1033.8	1039.1	1042.3	1040.9
10°	1054.0	1069.3	1078.6	1084.9	1092.6	1098.3	1096.3
12.5°	1093.1	1111.4	1124.2	1135.1	1136.0	1143.4	1138.4
15°	1154.2	1173.6	1175.5	1183.6	1189.9	1189.2	1189.5
17.5°	1174.4	1180.6	1181.9	1182.1	1182.1	1179.8	1174.7
20°	1167.2	1164.9	1159.2	1154.9	1147.3	1146.2	1139.6
22.5°	1133.1	1125.7	1111.5	1102.2	1090.2	1087.1	1085.2
25°	1066.0	1049.6	1027.0	1005.4	999.3	987.7	991.0
27.5°	973.8	948.4	923.9	906.3	890.5	873.0	878.0
30°	909.1	880.5	845.9	819.2	802.3	785.6	782.6
32.5°	831.9	789.9	751.3	727.8	701.8	691.3	679.8
35°	698.7	657.7	619.4	586.5	567.5	552.8	539.5
37.5°	578.8	531.7	500.8	474.1	460.4	452.0	454.1
40°	504.5	463.2	440.6	420.3	407.6	401.6	403.0
42.5°	444.3	413.4	394.8	380.8	371.9	368.5	367.7
45°	375.9	358.6	343.3	335.4	331.0	327.3	325.0
47.5°	329.4	315.2	306.6	301.8	298.0	294.4	294.3
50°	301.4	292.0	286.1	281.1	278.0	275.4	277.8
52.5°	280.1	271.5	265.6	261.1	259.9	257.5	257.5
55°	248.4	241.7	237.5	233.4	231.5	230.2	228.5
57.5°	219.6	213.3	209.4	206.8	203.0	201.7	201.2
60°	199.1	194.1	190.1	186.8	185.1	182.5	182.5
62.5°	180.2	175.2	171.5	169.0	166.2	165.1	165.4
65°	152.8	148.8	145.2	142.5	141.9	139.9	140.5
67.5°	127.7	125.0	121.2	119.7	118.4	117.3	116.5
70°	110.9	108.3	106.2	104.2	103.3	103.3	103.3
72.5°	96.8	93.5	92.4	89.9	90.4	89.3	88.3
75°	74.9	72.9	72.0	70.9	69.3	69.3	69.3
77.5°	55.1	54.6	53.3	52.3	51.9	51.5	51.7
80°	42.6	42.3	41.6	41.6	40.9	40.7	39.9
82.5°	32.7	31.9	31.5	31.2	31.1	31.0	30.9
85°	18.6	18.0	18.0	18.3	17.7	17.7	18.0
87.5°	12.3	12.5	12.4	12.5	12.9	12.8	12.8
90°	25.4	26.7	27.6	28.0	28.4	29.0	29.4
92.5°	27.2	27.8	28.3	28.5	28.9	29.2	29.4
95°	46.2	47.3	47.9	47.6	47.3	47.2	46.9
97.5°	59.8	60.8	61.4	61.7	62.1	62.3	62.6
100°	67.9	69.9	71.2	71.6	72.1	72.6	73.1
102.5°	71.5	74.0	75.6	76.2	77.0	77.7	78.3
105°	74.5	77.2	79.0	80.0	81.0	81.9	82.9
107.5°	85.0	82.3	81.4	82.4	83.4	84.4	85.3
110°	118.2	93.9	82.3	83.3	84.3	85.2	86.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	216.2	127.8	83.9	84.7	85.5	86.2	87.0
115°	336.4	224.1	159.3	141.8	124.4	106.9	89.4
117.5°	664.0	636.9	594.6	537.3	479.9	422.6	365.2
120°	808.2	811.2	796.3	763.6	730.8	698.1	665.4
122.5°	856.3	858.0	855.7	849.4	843.0	836.7	830.3
125°	926.8	928.5	929.7	930.4	931.2	931.9	932.6
127.5°	992.8	995.3	996.7	996.8	996.9	997.0	997.2
130°	1034.5	1037.1	1038.3	1038.0	1037.9	1037.6	1037.3
132.5°	1074.2	1076.6	1077.5	1077.4	1077.1	1076.8	1076.7
135°	1131.8	1134.3	1135.2	1134.8	1134.3	1133.8	1133.4
137.5°	1185.2	1187.6	1188.3	1187.5	1186.7	1185.9	1185.0
140°	1219.5	1221.7	1222.2	1220.9	1219.8	1218.5	1217.4
142.5°	1251.2	1253.2	1253.6	1252.4	1251.2	1249.9	1248.8
145°	1295.5	1297.2	1297.4	1296.2	1295.0	1293.8	1292.6
147.5°	1333.9	1335.2	1335.2	1334.3	1333.2	1332.2	1331.2
150°	1358.1	1359.5	1359.6	1358.4	1357.2	1355.9	1354.8
152.5°	1379.8	1381.3	1381.3	1379.7	1378.0	1376.4	1374.8
155°	1409.3	1410.8	1410.5	1408.5	1406.7	1404.7	1402.8
157.5°	1434.3	1436.0	1435.8	1434.0	1432.1	1430.2	1428.3
160°	1448.6	1450.0	1449.9	1448.2	1446.5	1444.8	1443.1
162.5°	1462.2	1463.9	1463.7	1461.6	1459.5	1457.4	1455.4
165°	1478.7	1480.4	1480.4	1478.7	1477.0	1475.3	1473.6
167.5°	1492.5	1494.2	1494.0	1491.7	1489.6	1487.4	1485.2
170°	1499.5	1501.2	1500.9	1498.8	1496.6	1494.4	1492.2
172.5°	1504.7	1506.4	1506.2	1504.0	1501.8	1499.6	1497.4
175°	1510.4	1512.1	1511.7	1509.3	1506.9	1504.4	1502.0
177.5°	1510.6	1512.1	1511.8	1510.1	1508.3	1506.6	1504.9
180°	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4

(END OF REPORT)