

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: P331519-935

Luminaire Tested: **S122DIW-S485D1440U935-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331519-935
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-S485D1440U935-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1440 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6809.4 lumens
Efficiency: N/A
Efficacy: 112.4 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

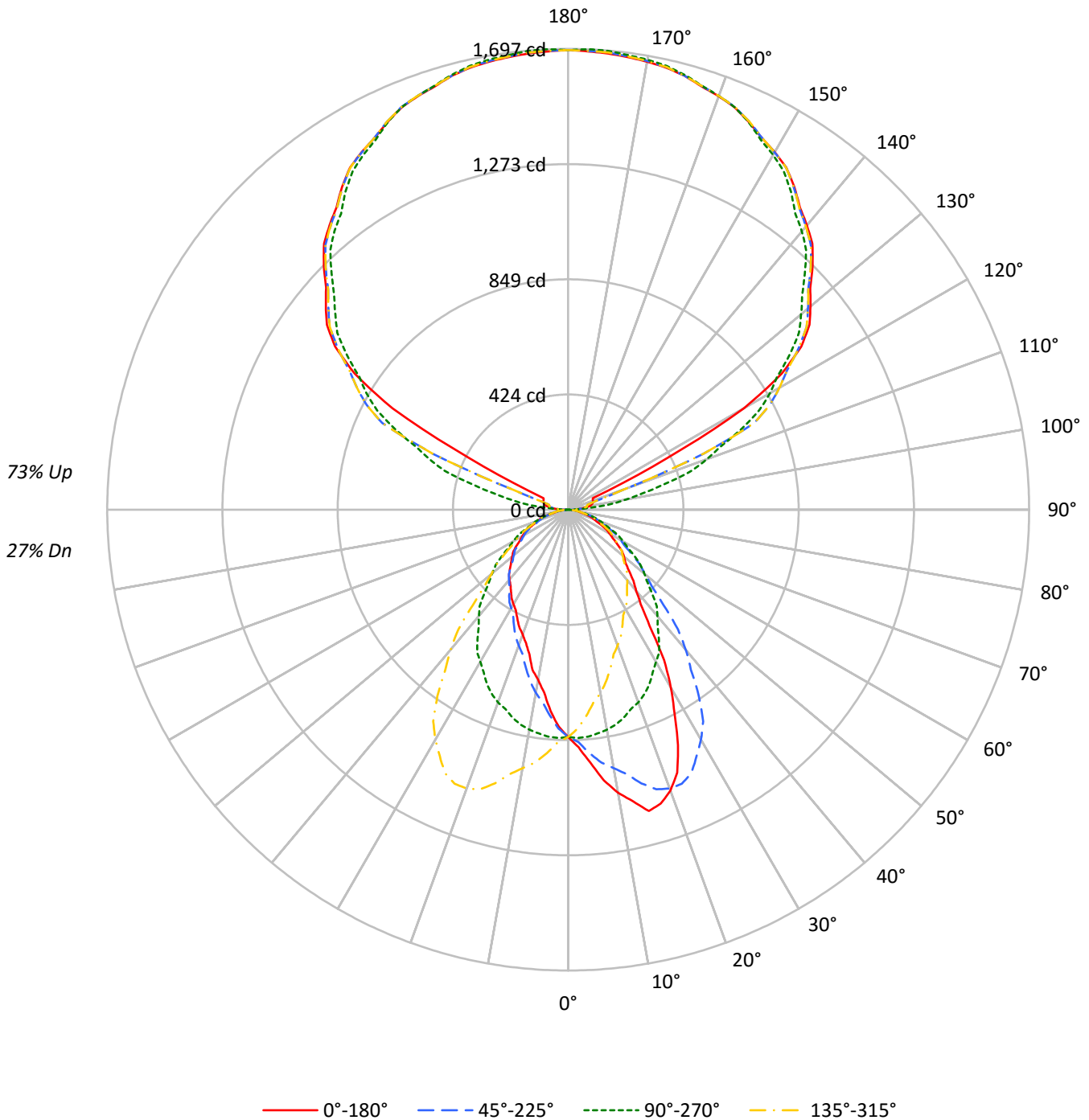
Input Watts (W): 60.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331519-935

CATALOG NUMBER: S122DIW-S485D1440U935-4F0-1E-UDD-A

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	91	91	91	91	71	71	71	52	52	52	35	35	35	27				
1	93	89	85	82	83	80	77	74	62	60	58	46	45	44	31	31	30	23				
2	85	78	72	67	76	70	65	61	55	51	49	41	39	37	28	27	26	20				
3	77	69	62	56	69	62	56	51	48	44	41	36	34	31	25	23	22	17				
4	71	61	53	48	63	55	48	43	43	39	35	32	29	27	22	21	19	15				
5	65	54	46	41	58	49	42	37	39	34	30	29	26	24	20	18	17	13				
6	60	48	41	35	53	44	37	32	35	30	26	26	23	21	19	17	15	12				
7	55	44	36	31	49	39	33	28	31	27	23	24	21	18	17	15	13	11				
8	51	40	32	27	46	36	29	25	29	24	21	22	19	16	16	14	12	10				
9	48	36	29	24	43	33	26	22	26	22	18	20	17	15	14	12	11	9				
10	44	33	26	22	40	30	24	20	24	20	17	19	15	13	13	11	10	8				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13508	13508	13508	13508
5°	15144	13598	12049	13598
10°	17354	13485	10427	13485
15°	19199	13237	9212	13237
20°	18907	12972	8399	12972
25°	17047	12618	7883	12618
30°	14087	12055	7506	12055
35°	10267	11466	7238	11466
40°	8201	10768	7088	10768
45°	7165	9965	6887	9965
50°	6737	9183	6752	9183
55°	6210	8391	6570	8391
60°	5690	7550	6290	7550
65°	5184	6793	6021	6793
70°	4707	6057	5618	6057
75°	4173	5234	4972	5234
80°	3589	4342	3998	4342
85°	3223	3223	2371	3223



TEST NUMBER: P331519-935

CATALOG NUMBER: S122DIW-S485D1440U935-4F0-1E-UDD-A

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.7	1.2
10°-20°	231.6	3.4
20°-30°	336.2	4.9
30°-40°	354.8	5.2
40°-50°	314.1	4.6
50°-60°	250.7	3.7
60°-70°	170.4	2.5
70°-80°	87.4	1.3
80°-90°	25.2	0.4
90°-100°	56.5	0.8
100°-110°	207.0	3.0
110°-120°	553.4	8.1
120°-130°	913.5	13.4
130°-140°	971.4	14.3
140°-150°	902.9	13.3
150°-160°	726.0	10.7
160°-170°	467.8	6.9
170°-180°	161.0	2.4
0°-30°	647.5	9.5
0°-40°	1002.3	14.7
0°-60°	1567.1	23.0
0°-90°	1850.0	27.2
90°-120°	816.8	12.0
90°-150°	3604.6	52.9
90°-180°	4959.0	72.8
0°-180°	6809.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	837	837	837	837	837	
5°	934	839	743	839	934	93
15°	1149	792	551	792	1149	317
25°	957	708	442	708	957	432
35°	521	582	367	582	521	339
45°	314	436	302	436	314	247
55°	221	298	233	298	221	198
65°	136	178	158	178	136	135
75°	67	84	80	84	67	71
85°	17	17	13	17	17	20
90°	33	1	33	1	33	15
95°	53	80	53	80	53	49
105°	93	372	93	372	93	97
115°	100	704	100	704	100	251
125°	1047	996	1047	996	1047	906
135°	1272	1232	1272	1232	1272	981
145°	1451	1429	1451	1429	1451	907
155°	1575	1574	1575	1574	1575	727
165°	1654	1658	1654	1658	1654	467
175°	1686	1696	1686	1696	1686	161
180°	1692	1692	1692	1692	1692	



TEST NUMBER: P331519-935

CATALOG NUMBER: S122DIW-S485D1440U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6
2.5°	875.3	875.6	876.0	871.9	871.4	871.4	867.8	864.7	861.1	856.2	856.7
5°	934.4	938.0	939.3	935.4	929.6	928.9	923.5	914.5	906.1	899.4	894.6
7.5°	1005.0	1006.4	1003.3	998.2	993.9	986.2	976.0	966.0	952.1	939.3	929.8
10°	1058.5	1060.5	1055.0	1047.6	1041.5	1032.5	1017.7	1002.5	984.3	966.6	952.4
12.5°	1099.2	1104.0	1096.9	1096.0	1085.5	1073.2	1055.5	1047.8	1022.1	997.5	982.2
15°	1148.6	1148.2	1148.9	1142.8	1135.1	1133.2	1114.5	1094.2	1057.9	1043.4	1018.3
17.5°	1134.3	1139.2	1141.4	1141.3	1141.2	1140.0	1133.9	1121.2	1102.9	1079.5	1050.6
20°	1100.4	1106.7	1107.8	1115.2	1119.3	1124.8	1127.0	1123.5	1112.2	1092.6	1067.6
22.5°	1047.8	1049.6	1052.7	1064.2	1073.2	1086.9	1094.1	1106.0	1101.6	1092.1	1071.2
25°	956.9	953.7	964.9	970.8	991.6	1013.5	1029.2	1046.6	1062.0	1071.4	1065.3
27.5°	847.7	842.9	859.8	875.1	892.1	915.8	940.3	969.3	993.4	1023.6	1034.0
30°	755.6	758.5	774.6	791.0	816.7	850.2	877.8	909.6	944.1	977.8	1001.3
32.5°	656.3	667.4	677.6	702.7	725.4	762.7	803.2	843.0	886.0	924.3	960.6
35°	520.9	533.7	547.9	566.3	598.1	635.1	674.6	728.3	786.9	839.2	882.4
37.5°	438.4	436.4	444.5	457.8	483.5	513.4	558.9	612.0	680.9	742.4	803.2
40°	389.1	387.8	393.6	405.8	425.4	447.3	487.2	533.7	597.8	673.0	745.4
42.5°	355.1	355.9	359.1	367.7	381.2	399.2	429.0	468.7	527.3	598.1	675.9
45°	313.8	316.1	319.6	323.8	331.5	346.3	363.0	391.3	437.6	496.8	573.3
47.5°	284.1	284.2	287.7	291.4	296.0	304.4	318.1	335.8	368.4	416.6	482.4
50°	268.2	265.9	268.5	271.4	276.2	282.0	291.0	307.7	329.6	368.5	423.4
52.5°	248.7	248.7	251.0	252.1	256.4	262.2	270.4	282.0	301.8	332.3	377.5
55°	220.6	222.2	223.5	225.4	229.3	233.4	239.9	247.6	263.0	285.9	319.3
57.5°	194.2	194.8	196.0	199.7	202.2	206.0	212.1	219.1	229.1	246.1	271.2
60°	176.2	176.2	178.7	180.4	183.6	187.4	192.3	199.1	208.0	221.9	242.1
62.5°	159.7	159.5	160.5	163.2	165.6	169.2	174.0	179.8	188.2	200.5	217.1
65°	135.7	135.1	137.0	137.6	140.2	143.7	147.6	153.7	160.5	169.4	184.3
67.5°	112.5	113.3	114.3	115.5	117.0	120.7	123.3	127.6	133.3	140.8	150.8
70°	99.7	99.7	99.7	100.7	102.5	104.5	107.1	110.6	116.1	122.5	131.5
72.5°	85.2	86.3	87.3	86.8	89.2	90.3	93.4	95.4	100.7	104.8	112.7
75°	66.9	66.9	66.9	68.4	69.5	70.4	72.3	74.3	76.9	82.0	86.2
77.5°	49.9	49.8	50.1	50.5	51.5	52.7	53.2	55.0	57.3	59.8	63.3
80°	38.6	39.3	39.5	40.2	40.2	40.8	41.2	43.4	45.0	46.7	48.9
82.5°	29.9	30.0	30.0	30.1	30.4	30.8	31.6	32.4	32.9	34.3	36.0
85°	17.4	17.0	17.0	17.7	17.4	17.4	18.0	18.7	18.7	18.9	20.0
87.5°	13.3	13.2	13.3	13.0	12.8	12.9	12.7	12.1	12.1	12.1	11.9
90°	33.1	32.5	31.9	31.4	30.9	30.0	28.6	27.2	25.8	24.5	22.3
92.5°	33.1	32.7	32.4	32.1	31.8	31.3	30.6	29.8	29.1	28.4	27.3
95°	52.7	53.0	53.2	53.5	53.7	53.2	51.8	50.5	49.1	47.8	45.9
97.5°	70.3	70.0	69.7	69.3	69.0	68.3	67.2	66.1	65.0	63.9	59.5
100°	82.1	81.5	80.9	80.4	79.9	78.5	76.4	74.1	72.0	69.8	65.2
102.5°	87.9	87.1	86.4	85.7	84.9	83.1	80.2	77.4	74.6	71.7	110.5
105°	93.1	92.0	90.9	89.8	88.7	86.7	83.7	80.7	77.7	74.7	149.0
107.5°	95.7	94.7	93.6	92.5	91.4	92.4	95.4	98.5	101.5	104.6	193.6
110°	96.8	95.7	94.5	93.5	92.4	105.5	132.7	159.9	187.1	214.3	292.9



TEST NUMBER: P331519-935

CATALOG NUMBER: S122DIW-S485D1440U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	97.7	96.9	96.0	95.1	94.2	143.4	242.7	342.0	441.3	540.5	559.9
115°	100.4	120.0	139.6	159.2	178.7	251.6	377.5	503.6	629.6	755.5	748.7
117.5°	410.0	474.3	538.7	603.1	667.5	715.0	745.5	775.9	806.4	836.9	832.2
120°	747.0	783.7	820.4	857.2	893.9	910.7	907.4	904.1	900.9	897.6	892.7
122.5°	932.1	939.3	946.4	953.5	960.6	963.2	961.3	959.3	957.3	955.4	950.0
125°	1047.0	1046.2	1045.3	1044.6	1043.7	1042.3	1040.4	1038.5	1036.6	1034.7	1029.6
127.5°	1119.5	1119.3	1119.1	1119.0	1118.9	1117.3	1114.6	1111.8	1109.1	1106.3	1102.4
130°	1164.5	1164.8	1165.1	1165.4	1165.6	1164.2	1161.3	1158.3	1155.3	1152.3	1149.3
132.5°	1208.6	1208.9	1209.2	1209.4	1209.7	1208.6	1206.0	1203.4	1200.9	1198.3	1195.3
135°	1272.3	1272.8	1273.4	1273.9	1274.5	1273.4	1270.7	1267.9	1265.2	1262.5	1260.1
137.5°	1330.3	1331.3	1332.2	1333.1	1334.0	1333.2	1330.5	1327.8	1325.2	1322.5	1319.7
140°	1366.6	1368.0	1369.3	1370.7	1372.0	1371.5	1369.1	1366.6	1364.2	1361.7	1358.7
142.5°	1401.9	1403.3	1404.5	1405.9	1407.3	1406.9	1404.6	1402.4	1400.2	1397.9	1394.5
145°	1451.1	1452.4	1453.8	1455.2	1456.6	1456.3	1454.3	1452.4	1450.5	1448.6	1444.0
147.5°	1494.4	1495.6	1496.8	1497.9	1499.0	1498.9	1497.5	1496.1	1494.6	1493.2	1488.7
150°	1520.9	1522.2	1523.6	1525.0	1526.3	1526.2	1524.6	1522.9	1521.3	1519.7	1515.3
152.5°	1543.4	1545.2	1547.0	1548.8	1550.6	1550.7	1549.0	1547.4	1545.8	1544.1	1540.0
155°	1574.8	1576.9	1579.2	1581.3	1583.5	1583.7	1582.1	1580.5	1578.8	1577.2	1574.0
157.5°	1603.4	1605.5	1607.7	1609.8	1611.9	1612.1	1610.2	1608.3	1606.5	1604.6	1602.3
160°	1620.1	1622.0	1623.8	1625.8	1627.7	1627.8	1626.2	1624.5	1622.9	1621.3	1619.6
162.5°	1633.8	1636.2	1638.5	1640.8	1643.1	1643.4	1641.6	1639.7	1637.9	1636.0	1634.6
165°	1654.3	1656.3	1658.2	1660.1	1662.0	1662.0	1660.1	1658.2	1656.3	1654.3	1653.6
167.5°	1667.3	1669.8	1672.2	1674.7	1677.1	1677.4	1675.5	1673.6	1671.7	1669.8	1669.0
170°	1675.2	1677.7	1680.1	1682.6	1685.0	1685.2	1683.3	1681.4	1679.6	1677.7	1677.1
172.5°	1681.0	1683.5	1685.9	1688.4	1690.8	1691.1	1689.2	1687.3	1685.4	1683.5	1683.0
175°	1686.2	1688.9	1691.6	1694.4	1697.1	1697.5	1695.6	1693.7	1691.8	1689.9	1689.4
177.5°	1689.4	1691.3	1693.3	1695.2	1697.2	1697.5	1695.9	1694.4	1692.9	1691.3	1691.1
180°	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3



TEST NUMBER: P331519-935

CATALOG NUMBER: S122DIW-S485D1440U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6
2.5°	858.5	856.4	855.1	850.6	846.4	842.3	841.0	841.5	835.9	830.5	828.2
5°	892.0	885.5	879.4	870.7	860.5	849.2	843.4	839.0	827.7	815.5	808.4
7.5°	922.0	912.7	901.0	884.7	869.7	852.0	840.7	830.8	814.2	797.0	786.5
10°	940.2	927.6	912.6	892.6	874.3	852.7	837.7	822.5	803.2	782.6	769.8
12.5°	955.9	939.0	924.1	898.5	876.8	849.9	832.0	810.7	790.4	765.9	753.3
15°	993.2	962.1	933.8	904.8	878.1	840.5	820.6	791.9	765.3	735.0	720.6
17.5°	1022.1	987.1	942.5	905.8	874.6	832.9	803.7	769.4	737.8	703.3	683.6
20°	1038.6	998.4	950.5	906.8	869.4	821.9	790.1	755.0	718.0	679.1	657.9
22.5°	1048.4	1006.2	958.7	902.9	859.2	812.9	772.8	734.4	696.9	655.0	632.7
25°	1051.5	1012.9	962.7	899.7	846.3	793.9	745.6	708.3	663.1	623.8	591.3
27.5°	1036.1	1008.5	960.3	893.6	831.5	770.2	716.4	674.2	626.3	583.8	551.0
30°	1017.4	1001.3	954.3	887.4	819.6	753.7	694.6	646.6	599.1	555.9	522.5
32.5°	988.3	984.8	943.6	878.7	807.0	732.9	671.7	623.2	570.5	528.1	496.3
35°	931.2	946.7	920.6	859.2	783.3	703.3	637.0	581.7	527.0	486.5	456.6
37.5°	854.7	893.0	886.2	830.5	751.2	671.0	597.8	540.0	487.9	447.0	417.7
40°	801.9	850.8	857.9	808.7	728.7	646.0	568.5	510.9	460.1	422.8	393.2
42.5°	745.4	802.5	821.9	782.5	704.0	619.7	542.3	482.7	432.4	396.1	369.9
45°	650.5	726.1	761.1	738.6	662.7	576.5	496.8	436.4	390.7	356.6	336.3
47.5°	561.8	644.4	691.6	683.5	616.8	531.5	452.7	394.7	350.3	323.0	304.9
50°	499.0	583.9	640.8	643.4	583.9	499.4	420.3	365.6	324.8	299.4	284.6
52.5°	444.5	525.6	587.6	601.2	547.2	465.9	391.2	336.8	300.8	277.5	264.2
55°	373.3	441.8	510.7	535.7	492.3	415.1	345.9	298.1	264.3	248.2	236.7
57.5°	310.4	367.5	431.0	458.7	432.0	365.9	301.1	259.5	232.1	218.0	209.1
60°	277.2	322.2	378.8	411.9	388.7	329.9	273.3	233.8	211.3	198.7	190.4
62.5°	246.3	286.2	334.0	364.3	351.7	296.2	245.6	210.6	191.2	179.4	173.4
65°	203.2	234.7	271.7	299.7	291.4	249.2	207.8	177.8	162.4	153.1	148.3
67.5°	167.3	190.1	215.8	240.2	233.5	203.6	170.4	147.1	135.5	127.5	124.7
70°	144.7	162.0	184.9	204.5	199.1	174.6	148.3	128.3	118.3	111.6	108.7
72.5°	123.1	137.3	154.8	170.8	167.1	146.8	124.8	109.8	102.1	95.9	93.5
75°	92.9	103.8	114.5	125.1	124.2	108.4	95.5	83.9	77.8	73.0	72.1
77.5°	68.6	74.7	82.0	88.3	86.5	77.5	67.4	60.8	56.3	53.0	52.5
80°	52.4	56.0	61.1	65.6	63.4	59.5	51.5	46.7	43.4	40.2	38.9
82.5°	38.0	41.6	44.6	47.1	45.4	41.8	36.8	33.5	31.6	29.4	28.8
85°	20.0	21.9	23.2	23.8	23.2	20.9	18.7	17.4	15.8	14.8	14.5
87.5°	11.7	11.3	10.8	10.8	9.5	8.9	7.2	5.9	6.3	6.6	6.6
90°	20.1	18.0	15.8	13.2	10.2	7.2	4.2	1.2	4.2	7.2	10.2
92.5°	26.3	25.1	24.0	23.7	23.9	24.2	24.5	24.7	24.5	24.2	23.9
95°	43.9	42.0	40.1	43.7	52.7	61.6	70.6	79.6	70.6	61.6	52.7
97.5°	55.1	50.7	46.3	56.7	82.1	107.4	132.7	158.0	132.7	107.4	82.1
100°	60.5	55.9	51.3	67.6	104.9	142.2	179.4	216.7	179.4	142.2	104.9
102.5°	149.1	187.9	226.5	249.9	257.7	265.6	273.5	281.4	273.5	265.6	257.7
105°	223.3	297.6	371.9	404.9	396.7	388.6	380.4	372.3	380.4	388.6	396.7
107.5°	282.8	371.9	461.0	502.2	495.6	489.0	482.4	475.9	482.4	489.0	495.6
110°	371.6	450.2	528.8	565.3	559.6	553.9	548.2	542.5	548.2	553.9	559.6



TEST NUMBER: P331519-935

CATALOG NUMBER: S122DIW-S485D1440U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	579.4	598.8	618.2	625.4	620.4	615.3	610.2	605.2	610.2	615.3	620.4
115°	741.9	735.1	728.3	722.6	718.0	713.3	708.8	704.1	708.8	713.3	718.0
117.5°	827.5	822.8	818.1	813.2	808.0	802.9	797.7	792.6	797.7	802.9	808.0
120°	887.8	882.9	878.0	873.5	869.4	865.3	861.3	857.2	861.3	865.3	869.4
122.5°	944.7	939.4	934.1	929.3	925.0	920.7	916.4	912.1	916.4	920.7	925.0
125°	1024.4	1019.3	1014.1	1009.7	1006.2	1002.6	999.1	995.6	999.1	1002.6	1006.2
127.5°	1098.5	1094.7	1090.8	1086.9	1083.0	1079.1	1075.1	1071.3	1075.1	1079.1	1083.0
130°	1146.3	1143.3	1140.3	1136.7	1132.3	1127.9	1123.6	1119.2	1123.6	1127.9	1132.3
132.5°	1192.3	1189.4	1186.4	1183.0	1179.3	1175.6	1171.9	1168.2	1171.9	1175.6	1179.3
135°	1257.6	1255.2	1252.7	1249.3	1244.9	1240.6	1236.2	1231.9	1236.2	1240.6	1244.9
137.5°	1317.0	1314.1	1311.4	1308.5	1305.4	1302.4	1299.3	1296.3	1299.3	1302.4	1305.4
140°	1355.7	1352.7	1349.7	1347.1	1345.0	1342.8	1340.6	1338.4	1340.6	1342.8	1345.0
142.5°	1391.1	1387.7	1384.2	1381.6	1379.6	1377.6	1375.6	1373.7	1375.6	1377.6	1379.6
145°	1439.4	1434.8	1430.1	1428.0	1428.2	1428.5	1428.7	1429.1	1428.7	1428.5	1428.2
147.5°	1484.1	1479.5	1474.9	1473.2	1474.2	1475.2	1476.3	1477.3	1476.3	1475.2	1474.2
150°	1511.0	1506.6	1502.3	1501.0	1503.0	1504.9	1506.8	1508.6	1506.8	1504.9	1503.0
152.5°	1535.9	1531.7	1527.6	1526.6	1528.7	1530.9	1533.0	1535.1	1533.0	1530.9	1528.7
155°	1570.7	1567.5	1564.2	1563.7	1566.2	1568.7	1571.1	1573.6	1571.1	1568.7	1566.2
157.5°	1600.1	1597.8	1595.5	1595.4	1597.5	1599.6	1601.6	1603.7	1601.6	1599.6	1597.5
160°	1618.1	1616.4	1614.8	1614.8	1616.4	1618.1	1619.6	1621.3	1619.6	1618.1	1616.4
162.5°	1633.1	1631.8	1630.3	1630.5	1632.1	1633.7	1635.4	1636.9	1635.4	1633.7	1632.1
165°	1652.7	1651.9	1651.1	1651.5	1653.1	1654.8	1656.4	1658.0	1656.4	1654.8	1653.1
167.5°	1668.3	1667.5	1666.7	1667.2	1668.8	1670.4	1672.1	1673.7	1672.1	1670.4	1668.8
170°	1676.5	1676.0	1675.4	1676.0	1677.7	1679.3	1680.9	1682.6	1680.9	1679.3	1677.7
172.5°	1682.4	1681.9	1681.4	1681.9	1683.5	1685.1	1686.8	1688.4	1686.8	1685.1	1683.5
175°	1688.8	1688.2	1687.7	1688.4	1690.3	1692.2	1694.1	1696.0	1694.1	1692.2	1690.3
177.5°	1690.9	1690.7	1690.5	1691.1	1692.6	1694.2	1695.7	1697.2	1695.7	1694.2	1692.6
180°	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3



TEST NUMBER: P331519-935

CATALOG NUMBER: S122DIW-S485D1440U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6
2.5°	825.6	824.1	818.6	815.8	811.2	806.8	804.0	805.3	806.3	805.8	805.0
5°	801.9	795.8	786.5	778.4	772.7	762.1	757.6	755.4	753.4	751.1	748.9
7.5°	773.8	764.1	750.8	739.3	728.5	715.3	707.8	703.3	698.6	693.5	689.1
10°	753.7	740.2	726.1	710.0	697.2	685.2	674.6	667.5	661.1	655.0	650.5
12.5°	732.6	717.0	699.6	677.6	663.4	646.4	644.8	632.3	622.2	618.5	613.2
15°	699.0	677.2	655.0	629.0	617.7	602.3	592.6	583.0	574.3	568.2	566.5
17.5°	660.9	632.6	610.5	591.9	573.4	557.6	548.7	541.0	533.8	525.6	524.6
20°	631.8	607.4	583.3	566.9	547.9	531.8	520.9	513.2	507.0	502.2	498.1
22.5°	604.3	577.6	555.5	537.5	518.8	505.8	497.2	489.8	484.7	479.4	475.4
25°	560.2	539.2	515.1	494.9	479.4	471.1	464.0	457.5	454.3	450.8	446.3
27.5°	521.5	498.3	475.7	460.0	446.4	439.0	434.0	429.6	426.6	424.6	422.0
30°	494.2	470.7	453.1	437.6	426.4	419.0	415.8	413.2	409.7	408.4	407.1
32.5°	468.0	446.9	431.7	418.4	407.6	402.8	399.8	397.5	394.8	393.5	390.9
35°	430.8	413.2	398.4	391.0	382.3	378.2	375.9	372.6	370.1	368.9	368.5
37.5°	396.0	380.6	370.8	361.4	357.7	355.1	352.1	349.8	349.0	348.9	348.5
40°	373.3	360.8	352.1	344.4	342.8	338.9	336.3	334.4	334.4	334.8	334.4
42.5°	352.8	341.5	333.8	327.2	325.3	323.0	320.4	320.3	320.8	321.8	320.8
45°	321.6	313.5	308.1	304.8	301.3	299.0	298.7	299.7	300.0	300.3	301.3
47.5°	292.8	287.5	282.6	279.1	277.5	277.1	276.7	278.4	279.9	280.5	282.0
50°	275.9	269.8	265.6	263.4	262.1	261.4	262.1	264.0	265.3	266.9	267.9
52.5°	256.8	252.5	249.7	247.9	247.4	247.8	247.9	250.1	252.2	252.7	253.2
55°	230.6	227.3	226.7	223.8	225.1	224.7	226.4	227.6	229.5	231.5	231.9
57.5°	204.3	201.7	200.0	200.3	200.6	202.1	203.4	205.7	207.8	209.7	210.0
60°	186.8	185.5	184.6	184.6	185.2	187.2	188.7	191.0	192.3	193.6	194.5
62.5°	170.9	169.6	168.6	169.1	170.8	171.9	173.8	175.0	176.3	177.6	178.1
65°	145.7	145.0	146.0	146.6	147.0	148.5	150.8	151.8	153.1	153.7	155.9
67.5°	122.4	122.6	122.4	123.4	125.2	125.6	127.7	130.0	130.3	131.5	132.9
70°	106.8	107.4	108.1	108.7	110.3	110.9	112.5	113.5	114.8	115.7	116.8
72.5°	92.4	92.5	93.2	93.0	94.4	95.7	97.1	98.1	99.4	100.6	101.5
75°	71.0	71.0	71.7	72.1	73.6	75.3	74.9	75.6	76.9	78.2	78.8
77.5°	51.9	51.2	51.9	52.2	52.7	54.1	54.3	55.3	56.7	56.3	57.0
80°	39.5	38.6	39.5	39.9	39.9	41.5	41.5	42.1	43.0	42.1	43.0
82.5°	28.2	27.8	28.5	28.6	29.1	29.1	29.6	29.8	30.7	30.3	30.7
85°	14.1	13.9	14.1	13.9	14.1	14.5	14.5	14.1	14.1	14.8	13.9
87.5°	7.0	7.2	7.5	7.9	8.1	8.3	8.3	8.5	8.8	8.5	8.8
90°	13.2	15.8	18.0	20.1	22.3	24.5	25.8	27.2	28.6	30.0	30.9
92.5°	23.7	24.0	25.1	26.3	27.3	28.4	29.1	29.8	30.6	31.3	31.8
95°	43.7	40.1	42.0	43.9	45.9	47.8	49.1	50.5	51.8	53.2	53.7
97.5°	56.7	46.3	50.7	55.1	59.5	63.9	65.0	66.1	67.2	68.3	69.0
100°	67.6	51.3	55.9	60.5	65.2	69.8	72.0	74.1	76.4	78.5	79.9
102.5°	249.9	226.5	187.9	149.1	110.5	71.7	74.6	77.4	80.2	83.1	84.9
105°	404.9	371.9	297.6	223.3	149.0	74.7	77.7	80.7	83.7	86.7	88.7
107.5°	502.2	461.0	371.9	282.8	193.6	104.6	101.5	98.5	95.4	92.4	91.4
110°	565.3	528.8	450.2	371.6	292.9	214.3	187.1	159.9	132.7	105.5	92.4



TEST NUMBER: P331519-935

CATALOG NUMBER: S122DIW-S485D1440U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	625.4	618.2	598.8	579.4	559.9	540.5	441.3	342.0	242.7	143.4	94.2
115°	722.6	728.3	735.1	741.9	748.7	755.5	629.6	503.6	377.5	251.6	178.7
117.5°	813.2	818.1	822.8	827.5	832.2	836.9	806.4	775.9	745.5	715.0	667.5
120°	873.5	878.0	882.9	887.8	892.7	897.6	900.9	904.1	907.4	910.7	893.9
122.5°	929.3	934.1	939.4	944.7	950.0	955.4	957.3	959.3	961.3	963.2	960.6
125°	1009.7	1014.1	1019.3	1024.4	1029.6	1034.7	1036.6	1038.5	1040.4	1042.3	1043.7
127.5°	1086.9	1090.8	1094.7	1098.5	1102.4	1106.3	1109.1	1111.8	1114.6	1117.3	1118.9
130°	1136.7	1140.3	1143.3	1146.3	1149.3	1152.3	1155.3	1158.3	1161.3	1164.2	1165.6
132.5°	1183.0	1186.4	1189.4	1192.3	1195.3	1198.3	1200.9	1203.4	1206.0	1208.6	1209.7
135°	1249.3	1252.7	1255.2	1257.6	1260.1	1262.5	1265.2	1267.9	1270.7	1273.4	1274.5
137.5°	1308.5	1311.4	1314.1	1317.0	1319.7	1322.5	1325.2	1327.8	1330.5	1333.2	1334.0
140°	1347.1	1349.7	1352.7	1355.7	1358.7	1361.7	1364.2	1366.6	1369.1	1371.5	1372.0
142.5°	1381.6	1384.2	1387.7	1391.1	1394.5	1397.9	1400.2	1402.4	1404.6	1406.9	1407.3
145°	1428.0	1430.1	1434.8	1439.4	1444.0	1448.6	1450.5	1452.4	1454.3	1456.3	1456.6
147.5°	1473.2	1474.9	1479.5	1484.1	1488.7	1493.2	1494.6	1496.1	1497.5	1498.9	1499.0
150°	1501.0	1502.3	1506.6	1511.0	1515.3	1519.7	1521.3	1522.9	1524.6	1526.2	1526.3
152.5°	1526.6	1527.6	1531.7	1535.9	1540.0	1544.1	1545.8	1547.4	1549.0	1550.7	1550.6
155°	1563.7	1564.2	1567.5	1570.7	1574.0	1577.2	1578.8	1580.5	1582.1	1583.7	1583.5
157.5°	1595.4	1595.5	1597.8	1600.1	1602.3	1604.6	1606.5	1608.3	1610.2	1612.1	1611.9
160°	1614.8	1614.8	1616.4	1618.1	1619.6	1621.3	1622.9	1624.5	1626.2	1627.8	1627.7
162.5°	1630.5	1630.3	1631.8	1633.1	1634.6	1636.0	1637.9	1639.7	1641.6	1643.4	1643.1
165°	1651.5	1651.1	1651.9	1652.7	1653.6	1654.3	1656.3	1658.2	1660.1	1662.0	1662.0
167.5°	1667.2	1666.7	1667.5	1668.3	1669.0	1669.8	1671.7	1673.6	1675.5	1677.4	1677.1
170°	1676.0	1675.4	1676.0	1676.5	1677.1	1677.7	1679.6	1681.4	1683.3	1685.2	1685.0
172.5°	1681.9	1681.4	1681.9	1682.4	1683.0	1683.5	1685.4	1687.3	1689.2	1691.1	1690.8
175°	1688.4	1687.7	1688.2	1688.8	1689.4	1689.9	1691.8	1693.7	1695.6	1697.5	1697.1
177.5°	1691.1	1690.5	1690.7	1690.9	1691.1	1691.3	1692.9	1694.4	1695.9	1697.5	1697.2
180°	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3



TEST NUMBER: P331519-935

CATALOG NUMBER: S122DIW-S485D1440U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6
2.5°	802.5	801.9	801.9	799.6	801.9	801.9	802.5	805.0	805.8	806.3	805.3
5°	744.4	743.4	741.8	743.4	741.8	743.4	744.4	748.9	751.1	753.4	755.4
7.5°	687.0	683.1	682.5	678.7	682.5	683.1	687.0	689.1	693.5	698.6	703.3
10°	645.1	642.5	642.1	636.0	642.1	642.5	645.1	650.5	655.0	661.1	667.5
12.5°	613.1	606.9	608.2	604.7	608.2	606.9	613.1	613.2	618.5	622.2	632.3
15°	557.8	557.8	556.6	551.1	556.6	557.8	557.8	566.5	568.2	574.3	583.0
17.5°	518.2	517.5	514.4	516.0	514.4	517.5	518.2	524.6	525.6	533.8	541.0
20°	494.6	492.6	488.8	488.8	488.8	492.6	494.6	498.1	502.2	507.0	513.2
22.5°	472.2	472.0	468.0	469.2	468.0	472.0	472.2	475.4	479.4	484.7	489.8
25°	446.0	443.4	441.5	442.5	441.5	443.4	446.0	446.3	450.8	454.3	457.5
27.5°	421.2	419.7	419.7	417.0	419.7	419.7	421.2	422.0	424.6	426.6	429.6
30°	406.7	403.6	404.2	402.6	404.2	403.6	406.7	407.1	408.4	409.7	413.2
32.5°	390.3	389.2	388.5	387.1	388.5	389.2	390.3	390.9	393.5	394.8	397.5
35°	367.8	368.2	366.5	367.2	366.5	368.2	367.8	368.5	368.9	370.1	372.6
37.5°	348.3	349.3	348.5	348.7	348.5	349.3	348.3	348.5	348.9	349.0	349.8
40°	335.4	335.4	335.4	336.3	335.4	335.4	335.4	334.4	334.8	334.4	334.4
42.5°	323.0	322.5	322.0	321.9	322.0	322.5	323.0	320.8	321.8	320.8	320.3
45°	302.0	302.9	303.2	301.6	303.2	302.9	302.0	301.3	300.3	300.0	299.7
47.5°	282.8	282.9	282.8	284.2	282.8	282.9	282.8	282.0	280.5	279.9	278.4
50°	269.5	268.8	269.5	268.8	269.5	268.8	269.5	267.9	266.9	265.3	264.0
52.5°	255.3	255.5	255.0	254.9	255.0	255.5	255.3	253.2	252.7	252.2	250.1
55°	233.2	233.8	233.4	233.4	233.4	233.8	233.2	231.9	231.5	229.5	227.6
57.5°	210.2	210.8	211.2	209.7	211.2	210.8	210.2	210.0	209.7	207.8	205.7
60°	194.2	195.8	195.5	194.8	195.5	195.8	194.2	194.5	193.6	192.3	191.0
62.5°	179.5	180.1	180.0	179.9	180.0	180.1	179.5	178.1	177.6	176.3	175.0
65°	156.9	157.6	156.6	157.6	156.6	157.6	156.9	155.9	153.7	153.1	151.8
67.5°	132.5	132.8	133.5	133.9	133.5	132.8	132.5	132.9	131.5	130.3	130.0
70°	117.4	117.0	118.0	119.0	118.0	117.0	117.4	116.8	115.7	114.8	113.5
72.5°	101.4	102.1	101.8	102.5	101.8	102.1	101.4	101.5	100.6	99.4	98.1
75°	78.2	79.1	78.8	79.7	78.8	79.1	78.2	78.8	78.2	76.9	75.6
77.5°	56.5	56.6	56.5	57.0	56.5	56.6	56.5	57.0	56.3	56.7	55.3
80°	43.0	42.4	41.8	43.0	41.8	42.4	43.0	43.0	42.1	43.0	42.1
82.5°	30.0	30.4	29.7	29.7	29.7	30.4	30.0	30.7	30.3	30.7	29.8
85°	13.9	13.5	12.8	12.8	12.8	13.5	13.9	13.9	14.8	14.1	14.1
87.5°	8.9	8.7	8.8	8.7	8.8	8.7	8.9	8.8	8.5	8.8	8.5
90°	31.4	31.9	32.5	33.1	32.5	31.9	31.4	30.9	30.0	28.6	27.2
92.5°	32.1	32.4	32.7	33.1	32.7	32.4	32.1	31.8	31.3	30.6	29.8
95°	53.5	53.2	53.0	52.7	53.0	53.2	53.5	53.7	53.2	51.8	50.5
97.5°	69.3	69.7	70.0	70.3	70.0	69.7	69.3	69.0	68.3	67.2	66.1
100°	80.4	80.9	81.5	82.1	81.5	80.9	80.4	79.9	78.5	76.4	74.1
102.5°	85.7	86.4	87.1	87.9	87.1	86.4	85.7	84.9	83.1	80.2	77.4
105°	89.8	90.9	92.0	93.1	92.0	90.9	89.8	88.7	86.7	83.7	80.7
107.5°	92.5	93.6	94.7	95.7	94.7	93.6	92.5	91.4	92.4	95.4	98.5
110°	93.5	94.5	95.7	96.8	95.7	94.5	93.5	92.4	105.5	132.7	159.9



TEST NUMBER: P331519-935

CATALOG NUMBER: S122DIW-S485D1440U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	95.1	96.0	96.9	97.7	96.9	96.0	95.1	94.2	143.4	242.7	342.0
115°	159.2	139.6	120.0	100.4	120.0	139.6	159.2	178.7	251.6	377.5	503.6
117.5°	603.1	538.7	474.3	410.0	474.3	538.7	603.1	667.5	715.0	745.5	775.9
120°	857.2	820.4	783.7	747.0	783.7	820.4	857.2	893.9	910.7	907.4	904.1
122.5°	953.5	946.4	939.3	932.1	939.3	946.4	953.5	960.6	963.2	961.3	959.3
125°	1044.6	1045.3	1046.2	1047.0	1046.2	1045.3	1044.6	1043.7	1042.3	1040.4	1038.5
127.5°	1119.0	1119.1	1119.3	1119.5	1119.3	1119.1	1119.0	1118.9	1117.3	1114.6	1111.8
130°	1165.4	1165.1	1164.8	1164.5	1164.8	1165.1	1165.4	1165.6	1164.2	1161.3	1158.3
132.5°	1209.4	1209.2	1208.9	1208.6	1208.9	1209.2	1209.4	1209.7	1208.6	1206.0	1203.4
135°	1273.9	1273.4	1272.8	1272.3	1272.8	1273.4	1273.9	1274.5	1273.4	1270.7	1267.9
137.5°	1333.1	1332.2	1331.3	1330.3	1331.3	1332.2	1333.1	1334.0	1333.2	1330.5	1327.8
140°	1370.7	1369.3	1368.0	1366.6	1368.0	1369.3	1370.7	1372.0	1371.5	1369.1	1366.6
142.5°	1405.9	1404.5	1403.3	1401.9	1403.3	1404.5	1405.9	1407.3	1406.9	1404.6	1402.4
145°	1455.2	1453.8	1452.4	1451.1	1452.4	1453.8	1455.2	1456.6	1456.3	1454.3	1452.4
147.5°	1497.9	1496.8	1495.6	1494.4	1495.6	1496.8	1497.9	1499.0	1498.9	1497.5	1496.1
150°	1525.0	1523.6	1522.2	1520.9	1522.2	1523.6	1525.0	1526.3	1526.2	1524.6	1522.9
152.5°	1548.8	1547.0	1545.2	1543.4	1545.2	1547.0	1548.8	1550.6	1550.7	1549.0	1547.4
155°	1581.3	1579.2	1576.9	1574.8	1576.9	1579.2	1581.3	1583.5	1583.7	1582.1	1580.5
157.5°	1609.8	1607.7	1605.5	1603.4	1605.5	1607.7	1609.8	1611.9	1612.1	1610.2	1608.3
160°	1625.8	1623.8	1622.0	1620.1	1622.0	1623.8	1625.8	1627.7	1627.8	1626.2	1624.5
162.5°	1640.8	1638.5	1636.2	1633.8	1636.2	1638.5	1640.8	1643.1	1643.4	1641.6	1639.7
165°	1660.1	1658.2	1656.3	1654.3	1656.3	1658.2	1660.1	1662.0	1662.0	1660.1	1658.2
167.5°	1674.7	1672.2	1669.8	1667.3	1669.8	1672.2	1674.7	1677.1	1677.4	1675.5	1673.6
170°	1682.6	1680.1	1677.7	1675.2	1677.7	1680.1	1682.6	1685.0	1685.2	1683.3	1681.4
172.5°	1688.4	1685.9	1683.5	1681.0	1683.5	1685.9	1688.4	1690.8	1691.1	1689.2	1687.3
175°	1694.4	1691.6	1688.9	1686.2	1688.9	1691.6	1694.4	1697.1	1697.5	1695.6	1693.7
177.5°	1695.2	1693.3	1691.3	1689.4	1691.3	1693.3	1695.2	1697.2	1697.5	1695.9	1694.4
180°	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3



TEST NUMBER: P331519-935

CATALOG NUMBER: S122DIW-S485D1440U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6
2.5°	804.0	806.8	811.2	815.8	818.6	824.1	825.6	828.2	830.5	835.9	841.5
5°	757.6	762.1	772.7	778.4	786.5	795.8	801.9	808.4	815.5	827.7	839.0
7.5°	707.8	715.3	728.5	739.3	750.8	764.1	773.8	786.5	797.0	814.2	830.8
10°	674.6	685.2	697.2	710.0	726.1	740.2	753.7	769.8	782.6	803.2	822.5
12.5°	644.8	646.4	663.4	677.6	699.6	717.0	732.6	753.3	765.9	790.4	810.7
15°	592.6	602.3	617.7	629.0	655.0	677.2	699.0	720.6	735.0	765.3	791.9
17.5°	548.7	557.6	573.4	591.9	610.5	632.6	660.9	683.6	703.3	737.8	769.4
20°	520.9	531.8	547.9	566.9	583.3	607.4	631.8	657.9	679.1	718.0	755.0
22.5°	497.2	505.8	518.8	537.5	555.5	577.6	604.3	632.7	655.0	696.9	734.4
25°	464.0	471.1	479.4	494.9	515.1	539.2	560.2	591.3	623.8	663.1	708.3
27.5°	434.0	439.0	446.4	460.0	475.7	498.3	521.5	551.0	583.8	626.3	674.2
30°	415.8	419.0	426.4	437.6	453.1	470.7	494.2	522.5	555.9	599.1	646.6
32.5°	399.8	402.8	407.6	418.4	431.7	446.9	468.0	496.3	528.1	570.5	623.2
35°	375.9	378.2	382.3	391.0	398.4	413.2	430.8	456.6	486.5	527.0	581.7
37.5°	352.1	355.1	357.7	361.4	370.8	380.6	396.0	417.7	447.0	487.9	540.0
40°	336.3	338.9	342.8	344.4	352.1	360.8	373.3	393.2	422.8	460.1	510.9
42.5°	320.4	323.0	325.3	327.2	333.8	341.5	352.8	369.9	396.1	432.4	482.7
45°	298.7	299.0	301.3	304.8	308.1	313.5	321.6	336.3	356.6	390.7	436.4
47.5°	276.7	277.1	277.5	279.1	282.6	287.5	292.8	304.9	323.0	350.3	394.7
50°	262.1	261.4	262.1	263.4	265.6	269.8	275.9	284.6	299.4	324.8	365.6
52.5°	247.9	247.8	247.4	247.9	249.7	252.5	256.8	264.2	277.5	300.8	336.8
55°	226.4	224.7	225.1	223.8	226.7	227.3	230.6	236.7	248.2	264.3	298.1
57.5°	203.4	202.1	200.6	200.3	200.0	201.7	204.3	209.1	218.0	232.1	259.5
60°	188.7	187.2	185.2	184.6	184.6	185.5	186.8	190.4	198.7	211.3	233.8
62.5°	173.8	171.9	170.8	169.1	168.6	169.6	170.9	173.4	179.4	191.2	210.6
65°	150.8	148.5	147.0	146.6	146.0	145.0	145.7	148.3	153.1	162.4	177.8
67.5°	127.7	125.6	125.2	123.4	122.4	122.6	122.4	124.7	127.5	135.5	147.1
70°	112.5	110.9	110.3	108.7	108.1	107.4	106.8	108.7	111.6	118.3	128.3
72.5°	97.1	95.7	94.4	93.0	93.2	92.5	92.4	93.5	95.9	102.1	109.8
75°	74.9	75.3	73.6	72.1	71.7	71.0	71.0	72.1	73.0	77.8	83.9
77.5°	54.3	54.1	52.7	52.2	51.9	51.2	51.9	52.5	53.0	56.3	60.8
80°	41.5	41.5	39.9	39.9	39.5	38.6	39.5	38.9	40.2	43.4	46.7
82.5°	29.6	29.1	29.1	28.6	28.5	27.8	28.2	28.8	29.4	31.6	33.5
85°	14.5	14.5	14.1	13.9	14.1	13.9	14.1	14.5	14.8	15.8	17.4
87.5°	8.3	8.3	8.1	7.9	7.5	7.2	7.0	6.6	6.6	6.3	5.9
90°	25.8	24.5	22.3	20.1	18.0	15.8	13.2	10.2	7.2	4.2	1.2
92.5°	29.1	28.4	27.3	26.3	25.1	24.0	23.7	23.9	24.2	24.5	24.7
95°	49.1	47.8	45.9	43.9	42.0	40.1	43.7	52.7	61.6	70.6	79.6
97.5°	65.0	63.9	59.5	55.1	50.7	46.3	56.7	82.1	107.4	132.7	158.0
100°	72.0	69.8	65.2	60.5	55.9	51.3	67.6	104.9	142.2	179.4	216.7
102.5°	74.6	71.7	110.5	149.1	187.9	226.5	249.9	257.7	265.6	273.5	281.4
105°	77.7	74.7	149.0	223.3	297.6	371.9	404.9	396.7	388.6	380.4	372.3
107.5°	101.5	104.6	193.6	282.8	371.9	461.0	502.2	495.6	489.0	482.4	475.9
110°	187.1	214.3	292.9	371.6	450.2	528.8	565.3	559.6	553.9	548.2	542.5



TEST NUMBER: P331519-935

CATALOG NUMBER: S122DIW-S485D1440U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	441.3	540.5	559.9	579.4	598.8	618.2	625.4	620.4	615.3	610.2	605.2
115°	629.6	755.5	748.7	741.9	735.1	728.3	722.6	718.0	713.3	708.8	704.1
117.5°	806.4	836.9	832.2	827.5	822.8	818.1	813.2	808.0	802.9	797.7	792.6
120°	900.9	897.6	892.7	887.8	882.9	878.0	873.5	869.4	865.3	861.3	857.2
122.5°	957.3	955.4	950.0	944.7	939.4	934.1	929.3	925.0	920.7	916.4	912.1
125°	1036.6	1034.7	1029.6	1024.4	1019.3	1014.1	1009.7	1006.2	1002.6	999.1	995.6
127.5°	1109.1	1106.3	1102.4	1098.5	1094.7	1090.8	1086.9	1083.0	1079.1	1075.1	1071.3
130°	1155.3	1152.3	1149.3	1146.3	1143.3	1140.3	1136.7	1132.3	1127.9	1123.6	1119.2
132.5°	1200.9	1198.3	1195.3	1192.3	1189.4	1186.4	1183.0	1179.3	1175.6	1171.9	1168.2
135°	1265.2	1262.5	1260.1	1257.6	1255.2	1252.7	1249.3	1244.9	1240.6	1236.2	1231.9
137.5°	1325.2	1322.5	1319.7	1317.0	1314.1	1311.4	1308.5	1305.4	1302.4	1299.3	1296.3
140°	1364.2	1361.7	1358.7	1355.7	1352.7	1349.7	1347.1	1345.0	1342.8	1340.6	1338.4
142.5°	1400.2	1397.9	1394.5	1391.1	1387.7	1384.2	1381.6	1379.6	1377.6	1375.6	1373.7
145°	1450.5	1448.6	1444.0	1439.4	1434.8	1430.1	1428.0	1428.2	1428.5	1428.7	1429.1
147.5°	1494.6	1493.2	1488.7	1484.1	1479.5	1474.9	1473.2	1474.2	1475.2	1476.3	1477.3
150°	1521.3	1519.7	1515.3	1511.0	1506.6	1502.3	1501.0	1503.0	1504.9	1506.8	1508.6
152.5°	1545.8	1544.1	1540.0	1535.9	1531.7	1527.6	1526.6	1528.7	1530.9	1533.0	1535.1
155°	1578.8	1577.2	1574.0	1570.7	1567.5	1564.2	1563.7	1566.2	1568.7	1571.1	1573.6
157.5°	1606.5	1604.6	1602.3	1600.1	1597.8	1595.5	1595.4	1597.5	1599.6	1601.6	1603.7
160°	1622.9	1621.3	1619.6	1618.1	1616.4	1614.8	1614.8	1616.4	1618.1	1619.6	1621.3
162.5°	1637.9	1636.0	1634.6	1633.1	1631.8	1630.3	1630.5	1632.1	1633.7	1635.4	1636.9
165°	1656.3	1654.3	1653.6	1652.7	1651.9	1651.1	1651.5	1653.1	1654.8	1656.4	1658.0
167.5°	1671.7	1669.8	1669.0	1668.3	1667.5	1666.7	1667.2	1668.8	1670.4	1672.1	1673.7
170°	1679.6	1677.7	1677.1	1676.5	1676.0	1675.4	1676.0	1677.7	1679.3	1680.9	1682.6
172.5°	1685.4	1683.5	1683.0	1682.4	1681.9	1681.4	1681.9	1683.5	1685.1	1686.8	1688.4
175°	1691.8	1689.9	1689.4	1688.8	1688.2	1687.7	1688.4	1690.3	1692.2	1694.1	1696.0
177.5°	1692.9	1691.3	1691.1	1690.9	1690.7	1690.5	1691.1	1692.6	1694.2	1695.7	1697.2
180°	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3



TEST NUMBER: P331519-935

CATALOG NUMBER: S122DIW-S485D1440U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6
2.5°	841.0	842.3	846.4	850.6	855.1	856.4	858.5	856.7	856.2	861.1	864.7
5°	843.4	849.2	860.5	870.7	879.4	885.5	892.0	894.6	899.4	906.1	914.5
7.5°	840.7	852.0	869.7	884.7	901.0	912.7	922.0	929.8	939.3	952.1	966.0
10°	837.7	852.7	874.3	892.6	912.6	927.6	940.2	952.4	966.6	984.3	1002.5
12.5°	832.0	849.9	876.8	898.5	924.1	939.0	955.9	982.2	997.5	1022.1	1047.8
15°	820.6	840.5	878.1	904.8	933.8	962.1	993.2	1018.3	1043.4	1057.9	1094.2
17.5°	803.7	832.9	874.6	905.8	942.5	987.1	1022.1	1050.6	1079.5	1102.9	1121.2
20°	790.1	821.9	869.4	906.8	950.5	998.4	1038.6	1067.6	1092.6	1112.2	1123.5
22.5°	772.8	812.9	859.2	902.9	958.7	1006.2	1048.4	1071.2	1092.1	1101.6	1106.0
25°	745.6	793.9	846.3	899.7	962.7	1012.9	1051.5	1065.3	1071.4	1062.0	1046.6
27.5°	716.4	770.2	831.5	893.6	960.3	1008.5	1036.1	1034.0	1023.6	993.4	969.3
30°	694.6	753.7	819.6	887.4	954.3	1001.3	1017.4	1001.3	977.8	944.1	909.6
32.5°	671.7	732.9	807.0	878.7	943.6	984.8	988.3	960.6	924.3	886.0	843.0
35°	637.0	703.3	783.3	859.2	920.6	946.7	931.2	882.4	839.2	786.9	728.3
37.5°	597.8	671.0	751.2	830.5	886.2	893.0	854.7	803.2	742.4	680.9	612.0
40°	568.5	646.0	728.7	808.7	857.9	850.8	801.9	745.4	673.0	597.8	533.7
42.5°	542.3	619.7	704.0	782.5	821.9	802.5	745.4	675.9	598.1	527.3	468.7
45°	496.8	576.5	662.7	738.6	761.1	726.1	650.5	573.3	496.8	437.6	391.3
47.5°	452.7	531.5	616.8	683.5	691.6	644.4	561.8	482.4	416.6	368.4	335.8
50°	420.3	499.4	583.9	643.4	640.8	583.9	499.0	423.4	368.5	329.6	307.7
52.5°	391.2	465.9	547.2	601.2	587.6	525.6	444.5	377.5	332.3	301.8	282.0
55°	345.9	415.1	492.3	535.7	510.7	441.8	373.3	319.3	285.9	263.0	247.6
57.5°	301.1	365.9	432.0	458.7	431.0	367.5	310.4	271.2	246.1	229.1	219.1
60°	273.3	329.9	388.7	411.9	378.8	322.2	277.2	242.1	221.9	208.0	199.1
62.5°	245.6	296.2	351.7	364.3	334.0	286.2	246.3	217.1	200.5	188.2	179.8
65°	207.8	249.2	291.4	299.7	271.7	234.7	203.2	184.3	169.4	160.5	153.7
67.5°	170.4	203.6	233.5	240.2	215.8	190.1	167.3	150.8	140.8	133.3	127.6
70°	148.3	174.6	199.1	204.5	184.9	162.0	144.7	131.5	122.5	116.1	110.6
72.5°	124.8	146.8	167.1	170.8	154.8	137.3	123.1	112.7	104.8	100.7	95.4
75°	95.5	108.4	124.2	125.1	114.5	103.8	92.9	86.2	82.0	76.9	74.3
77.5°	67.4	77.5	86.5	88.3	82.0	74.7	68.6	63.3	59.8	57.3	55.0
80°	51.5	59.5	63.4	65.6	61.1	56.0	52.4	48.9	46.7	45.0	43.4
82.5°	36.8	41.8	45.4	47.1	44.6	41.6	38.0	36.0	34.3	32.9	32.4
85°	18.7	20.9	23.2	23.8	23.2	21.9	20.0	20.0	18.9	18.7	18.7
87.5°	7.2	8.9	9.5	10.8	10.8	11.3	11.7	11.9	12.1	12.1	12.1
90°	4.2	7.2	10.2	13.2	15.8	18.0	20.1	22.3	24.5	25.8	27.2
92.5°	24.5	24.2	23.9	23.7	24.0	25.1	26.3	27.3	28.4	29.1	29.8
95°	70.6	61.6	52.7	43.7	40.1	42.0	43.9	45.9	47.8	49.1	50.5
97.5°	132.7	107.4	82.1	56.7	46.3	50.7	55.1	59.5	63.9	65.0	66.1
100°	179.4	142.2	104.9	67.6	51.3	55.9	60.5	65.2	69.8	72.0	74.1
102.5°	273.5	265.6	257.7	249.9	226.5	187.9	149.1	110.5	71.7	74.6	77.4
105°	380.4	388.6	396.7	404.9	371.9	297.6	223.3	149.0	74.7	77.7	80.7
107.5°	482.4	489.0	495.6	502.2	461.0	371.9	282.8	193.6	104.6	101.5	98.5
110°	548.2	553.9	559.6	565.3	528.8	450.2	371.6	292.9	214.3	187.1	159.9



TEST NUMBER: P331519-935

CATALOG NUMBER: S122DIW-S485D1440U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	610.2	615.3	620.4	625.4	618.2	598.8	579.4	559.9	540.5	441.3	342.0
115°	708.8	713.3	718.0	722.6	728.3	735.1	741.9	748.7	755.5	629.6	503.6
117.5°	797.7	802.9	808.0	813.2	818.1	822.8	827.5	832.2	836.9	806.4	775.9
120°	861.3	865.3	869.4	873.5	878.0	882.9	887.8	892.7	897.6	900.9	904.1
122.5°	916.4	920.7	925.0	929.3	934.1	939.4	944.7	950.0	955.4	957.3	959.3
125°	999.1	1002.6	1006.2	1009.7	1014.1	1019.3	1024.4	1029.6	1034.7	1036.6	1038.5
127.5°	1075.1	1079.1	1083.0	1086.9	1090.8	1094.7	1098.5	1102.4	1106.3	1109.1	1111.8
130°	1123.6	1127.9	1132.3	1136.7	1140.3	1143.3	1146.3	1149.3	1152.3	1155.3	1158.3
132.5°	1171.9	1175.6	1179.3	1183.0	1186.4	1189.4	1192.3	1195.3	1198.3	1200.9	1203.4
135°	1236.2	1240.6	1244.9	1249.3	1252.7	1255.2	1257.6	1260.1	1262.5	1265.2	1267.9
137.5°	1299.3	1302.4	1305.4	1308.5	1311.4	1314.1	1317.0	1319.7	1322.5	1325.2	1327.8
140°	1340.6	1342.8	1345.0	1347.1	1349.7	1352.7	1355.7	1358.7	1361.7	1364.2	1366.6
142.5°	1375.6	1377.6	1379.6	1381.6	1384.2	1387.7	1391.1	1394.5	1397.9	1400.2	1402.4
145°	1428.7	1428.5	1428.2	1428.0	1430.1	1434.8	1439.4	1444.0	1448.6	1450.5	1452.4
147.5°	1476.3	1475.2	1474.2	1473.2	1474.9	1479.5	1484.1	1488.7	1493.2	1494.6	1496.1
150°	1506.8	1504.9	1503.0	1501.0	1502.3	1506.6	1511.0	1515.3	1519.7	1521.3	1522.9
152.5°	1533.0	1530.9	1528.7	1526.6	1527.6	1531.7	1535.9	1540.0	1544.1	1545.8	1547.4
155°	1571.1	1568.7	1566.2	1563.7	1564.2	1567.5	1570.7	1574.0	1577.2	1578.8	1580.5
157.5°	1601.6	1599.6	1597.5	1595.4	1595.5	1597.8	1600.1	1602.3	1604.6	1606.5	1608.3
160°	1619.6	1618.1	1616.4	1614.8	1614.8	1616.4	1618.1	1619.6	1621.3	1622.9	1624.5
162.5°	1635.4	1633.7	1632.1	1630.5	1630.3	1631.8	1633.1	1634.6	1636.0	1637.9	1639.7
165°	1656.4	1654.8	1653.1	1651.5	1651.1	1651.9	1652.7	1653.6	1654.3	1656.3	1658.2
167.5°	1672.1	1670.4	1668.8	1667.2	1666.7	1667.5	1668.3	1669.0	1669.8	1671.7	1673.6
170°	1680.9	1679.3	1677.7	1676.0	1675.4	1676.0	1676.5	1677.1	1677.7	1679.6	1681.4
172.5°	1686.8	1685.1	1683.5	1681.9	1681.4	1681.9	1682.4	1683.0	1683.5	1685.4	1687.3
175°	1694.1	1692.2	1690.3	1688.4	1687.7	1688.2	1688.8	1689.4	1689.9	1691.8	1693.7
177.5°	1695.7	1694.2	1692.6	1691.1	1690.5	1690.7	1690.9	1691.1	1691.3	1692.9	1694.4
180°	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3



TEST NUMBER: P331519-935

CATALOG NUMBER: S122DIW-S485D1440U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	836.6	836.6	836.6	836.6	836.6	836.6	836.6
2.5°	867.8	871.4	871.4	871.9	876.0	875.6	875.3
5°	923.5	928.9	929.6	935.4	939.3	938.0	934.4
7.5°	976.0	986.2	993.9	998.2	1003.3	1006.4	1005.0
10°	1017.7	1032.5	1041.5	1047.6	1055.0	1060.5	1058.5
12.5°	1055.5	1073.2	1085.5	1096.0	1096.9	1104.0	1099.2
15°	1114.5	1133.2	1135.1	1142.8	1148.9	1148.2	1148.6
17.5°	1133.9	1140.0	1141.2	1141.3	1141.4	1139.2	1134.3
20°	1127.0	1124.8	1119.3	1115.2	1107.8	1106.7	1100.4
22.5°	1094.1	1086.9	1073.2	1064.2	1052.7	1049.6	1047.8
25°	1029.2	1013.5	991.6	970.8	964.9	953.7	956.9
27.5°	940.3	915.8	892.1	875.1	859.8	842.9	847.7
30°	877.8	850.2	816.7	791.0	774.6	758.5	755.6
32.5°	803.2	762.7	725.4	702.7	677.6	667.4	656.3
35°	674.6	635.1	598.1	566.3	547.9	533.7	520.9
37.5°	558.9	513.4	483.5	457.8	444.5	436.4	438.4
40°	487.2	447.3	425.4	405.8	393.6	387.8	389.1
42.5°	429.0	399.2	381.2	367.7	359.1	355.9	355.1
45°	363.0	346.3	331.5	323.8	319.6	316.1	313.8
47.5°	318.1	304.4	296.0	291.4	287.7	284.2	284.1
50°	291.0	282.0	276.2	271.4	268.5	265.9	268.2
52.5°	270.4	262.2	256.4	252.1	251.0	248.7	248.7
55°	239.9	233.4	229.3	225.4	223.5	222.2	220.6
57.5°	212.1	206.0	202.2	199.7	196.0	194.8	194.2
60°	192.3	187.4	183.6	180.4	178.7	176.2	176.2
62.5°	174.0	169.2	165.6	163.2	160.5	159.5	159.7
65°	147.6	143.7	140.2	137.6	137.0	135.1	135.7
67.5°	123.3	120.7	117.0	115.5	114.3	113.3	112.5
70°	107.1	104.5	102.5	100.7	99.7	99.7	99.7
72.5°	93.4	90.3	89.2	86.8	87.3	86.3	85.2
75°	72.3	70.4	69.5	68.4	66.9	66.9	66.9
77.5°	53.2	52.7	51.5	50.5	50.1	49.8	49.9
80°	41.2	40.8	40.2	40.2	39.5	39.3	38.6
82.5°	31.6	30.8	30.4	30.1	30.0	30.0	29.9
85°	18.0	17.4	17.4	17.7	17.0	17.0	17.4
87.5°	12.7	12.9	12.8	13.0	13.3	13.2	13.3
90°	28.6	30.0	30.9	31.4	31.9	32.5	33.1
92.5°	30.6	31.3	31.8	32.1	32.4	32.7	33.1
95°	51.8	53.2	53.7	53.5	53.2	53.0	52.7
97.5°	67.2	68.3	69.0	69.3	69.7	70.0	70.3
100°	76.4	78.5	79.9	80.4	80.9	81.5	82.1
102.5°	80.2	83.1	84.9	85.7	86.4	87.1	87.9
105°	83.7	86.7	88.7	89.8	90.9	92.0	93.1
107.5°	95.4	92.4	91.4	92.5	93.6	94.7	95.7
110°	132.7	105.5	92.4	93.5	94.5	95.7	96.8



TEST NUMBER: P331519-935

CATALOG NUMBER: S122DIW-S485D1440U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	242.7	143.4	94.2	95.1	96.0	96.9	97.7
115°	377.5	251.6	178.7	159.2	139.6	120.0	100.4
117.5°	745.5	715.0	667.5	603.1	538.7	474.3	410.0
120°	907.4	910.7	893.9	857.2	820.4	783.7	747.0
122.5°	961.3	963.2	960.6	953.5	946.4	939.3	932.1
125°	1040.4	1042.3	1043.7	1044.6	1045.3	1046.2	1047.0
127.5°	1114.6	1117.3	1118.9	1119.0	1119.1	1119.3	1119.5
130°	1161.3	1164.2	1165.6	1165.4	1165.1	1164.8	1164.5
132.5°	1206.0	1208.6	1209.7	1209.4	1209.2	1208.9	1208.6
135°	1270.7	1273.4	1274.5	1273.9	1273.4	1272.8	1272.3
137.5°	1330.5	1333.2	1334.0	1333.1	1332.2	1331.3	1330.3
140°	1369.1	1371.5	1372.0	1370.7	1369.3	1368.0	1366.6
142.5°	1404.6	1406.9	1407.3	1405.9	1404.5	1403.3	1401.9
145°	1454.3	1456.3	1456.6	1455.2	1453.8	1452.4	1451.1
147.5°	1497.5	1498.9	1499.0	1497.9	1496.8	1495.6	1494.4
150°	1524.6	1526.2	1526.3	1525.0	1523.6	1522.2	1520.9
152.5°	1549.0	1550.7	1550.6	1548.8	1547.0	1545.2	1543.4
155°	1582.1	1583.7	1583.5	1581.3	1579.2	1576.9	1574.8
157.5°	1610.2	1612.1	1611.9	1609.8	1607.7	1605.5	1603.4
160°	1626.2	1627.8	1627.7	1625.8	1623.8	1622.0	1620.1
162.5°	1641.6	1643.4	1643.1	1640.8	1638.5	1636.2	1633.8
165°	1660.1	1662.0	1662.0	1660.1	1658.2	1656.3	1654.3
167.5°	1675.5	1677.4	1677.1	1674.7	1672.2	1669.8	1667.3
170°	1683.3	1685.2	1685.0	1682.6	1680.1	1677.7	1675.2
172.5°	1689.2	1691.1	1690.8	1688.4	1685.9	1683.5	1681.0
175°	1695.6	1697.5	1697.1	1694.4	1691.6	1688.9	1686.2
177.5°	1695.9	1697.5	1697.2	1695.2	1693.3	1691.3	1689.4
180°	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3

(END OF REPORT)