

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: P331802

Luminaire Tested: **S122RDIW-S485D1440U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331802
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-S485D1440U835-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1440 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6859.8 lumens
Efficiency: N/A
Efficacy: 113.2 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

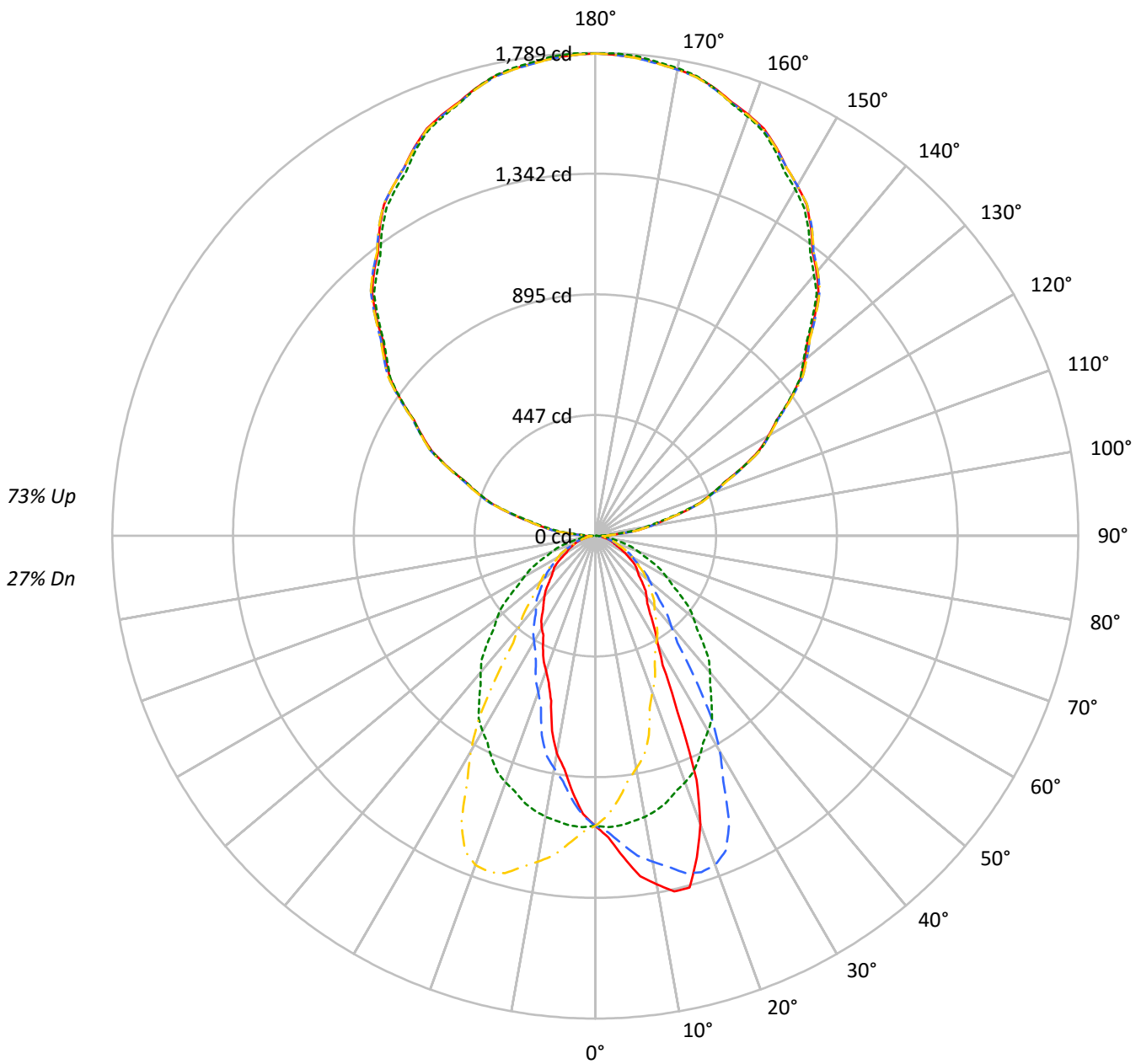
Input Watts (W): 60.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - - - 135°-315°



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	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	59	46	45	44	32	31	30	24
2	85	78	73	68	76	70	65	61	55	52	49	41	39	37	28	27	26	21
3	78	69	62	57	69	62	56	52	49	45	42	37	34	32	26	24	23	18
4	71	61	54	48	64	55	49	44	44	39	36	33	30	28	23	21	20	16
5	66	55	47	42	59	49	43	38	39	35	31	30	27	24	21	19	18	14
6	60	49	42	36	54	44	38	33	35	31	27	27	24	22	19	17	16	13
7	56	44	37	32	50	40	34	29	32	28	24	25	22	19	18	16	14	11
8	52	40	33	28	46	37	30	26	29	25	22	23	20	17	16	14	13	10
9	48	37	30	25	43	33	27	23	27	22	19	21	18	16	15	13	12	10
10	45	34	27	22	40	31	25	21	25	20	17	19	16	14	14	12	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	17354	17354	17354	17354
5°	19379	17462	15483	17462
10°	21502	17339	13421	17339
15°	22559	17085	10574	17085
20°	19557	16708	9149	16708
25°	12827	16192	8170	16192
30°	8634	15567	7394	15567
35°	6993	14781	6668	14781
40°	6218	13923	6171	13923
45°	5628	12919	5507	12919
50°	5122	11921	5102	11921
55°	4814	10818	4752	10818
60°	4027	9804	3978	9804
65°	3396	8902	3851	8902
70°	3139	7950	3630	7950
75°	2938	6918	3356	6918
80°	2706	5690	2985	5690
85°	2482	4502	2631	4502



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.9	1.5
10°-20°	283.9	4.1
20°-30°	365.8	5.3
30°-40°	347.6	5.1
40°-50°	297.8	4.3
50°-60°	226.8	3.3
60°-70°	143.4	2.1
70°-80°	71.6	1.0
80°-90°	25.8	0.4
90°-100°	113.2	1.6
100°-110°	351.6	5.1
110°-120°	601.0	8.8
120°-130°	790.3	11.5
130°-140°	887.0	12.9
140°-150°	869.7	12.7
150°-160°	729.5	10.6
160°-170°	483.8	7.1
170°-180°	169.1	2.5
0°-30°	751.6	11.0
0°-40°	1099.2	16.0
0°-60°	1623.8	23.7
0°-90°	1864.5	27.2
90°-120°	1065.7	15.5
90°-150°	3612.8	52.7
90°-180°	4995.0	72.8
0°-180°	6859.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1075	1075	1075	1075	1075	
5°	1196	1077	955	1077	1196	118
15°	1350	1022	633	1022	1350	364
25°	720	909	459	909	720	342
35°	355	750	338	750	355	227
45°	246	566	241	566	246	191
55°	171	384	169	384	171	150
65°	89	233	101	233	89	90
75°	47	111	54	111	47	50
85°	13	24	14	24	13	16
90°	51	2	51	2	51	23
95°	94	78	94	78	94	104
105°	335	324	335	324	335	352
115°	603	603	603	603	603	596
125°	880	877	880	877	880	785
135°	1149	1135	1149	1135	1149	884
145°	1393	1378	1393	1378	1393	870
155°	1588	1575	1588	1575	1588	731
165°	1716	1714	1716	1714	1716	484
175°	1777	1783	1777	1783	1777	169
180°	1786	1786	1786	1786	1786	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8
2.5°	1118.4	1119.3	1120.2	1118.1	1118.1	1116.3	1112.4	1109.4	1101.0	1099.8	1099.8
5°	1195.7	1195.0	1196.5	1191.6	1184.9	1183.4	1176.3	1167.0	1157.3	1146.4	1144.2
7.5°	1272.7	1271.6	1268.6	1267.7	1262.6	1251.3	1239.9	1227.7	1211.6	1195.8	1187.9
10°	1311.5	1323.8	1316.4	1303.3	1305.9	1288.4	1279.0	1263.0	1249.5	1226.0	1220.8
12.5°	1349.7	1354.6	1352.2	1344.8	1341.5	1329.3	1316.7	1302.7	1277.9	1256.8	1238.4
15°	1349.6	1356.7	1358.6	1356.3	1358.2	1357.4	1350.7	1339.1	1317.5	1294.3	1274.2
17.5°	1250.0	1254.9	1267.1	1275.4	1285.9	1308.0	1318.9	1323.2	1319.9	1306.7	1292.5
20°	1138.2	1130.0	1164.4	1181.9	1196.9	1234.2	1266.3	1278.6	1298.4	1298.1	1294.3
22.5°	979.9	981.8	1014.4	1035.2	1078.9	1116.2	1152.8	1199.2	1237.5	1262.8	1277.6
25°	720.0	734.2	766.7	795.0	843.6	913.1	976.2	1049.4	1118.4	1173.0	1224.9
27.5°	540.7	541.8	567.5	593.8	622.6	679.5	759.0	846.4	944.9	1026.1	1119.6
30°	463.1	460.8	471.7	487.7	512.4	556.4	616.2	702.1	800.3	922.8	1031.8
32.5°	408.1	408.2	416.4	428.3	448.7	478.4	519.4	589.1	682.0	802.4	930.2
35°	354.8	354.4	360.4	369.0	377.5	396.6	424.6	461.2	525.1	637.5	768.2
37.5°	316.5	318.2	321.1	326.5	335.9	346.5	363.4	387.9	433.4	499.9	609.7
40°	295.0	295.8	299.9	304.4	310.0	318.2	332.0	351.8	385.0	438.0	518.3
42.5°	275.3	276.0	279.0	283.1	287.5	295.8	307.2	324.3	351.3	392.6	458.9
45°	246.5	246.5	249.1	250.9	255.8	263.3	272.6	286.8	305.5	336.1	380.2
47.5°	219.4	219.5	221.2	224.4	227.5	233.3	242.5	254.1	267.7	291.4	329.0
50°	203.9	204.3	205.4	208.0	209.9	215.1	222.2	232.3	246.5	264.8	296.1
52.5°	191.3	191.1	192.5	193.7	194.9	198.7	204.0	212.9	225.6	241.5	267.5
55°	171.0	169.5	171.8	173.6	174.8	176.3	179.2	184.9	195.7	209.1	228.5
57.5°	145.6	145.0	146.6	148.3	151.8	155.9	158.4	162.0	167.6	177.2	196.5
60°	124.7	124.7	128.1	129.2	133.3	138.5	143.8	146.8	152.4	158.7	172.9
62.5°	106.2	106.5	108.1	109.2	111.5	117.9	125.3	131.8	137.1	143.2	152.6
65°	88.9	89.6	89.6	90.4	91.9	93.4	96.3	101.6	110.9	119.5	126.6
67.5°	75.4	75.7	75.9	76.6	77.0	78.6	79.8	82.2	84.3	92.5	101.3
70°	66.5	67.6	67.2	68.0	68.3	69.1	70.6	71.7	75.1	76.9	82.2
72.5°	58.1	58.9	58.9	59.3	60.3	60.4	61.6	62.7	64.9	66.5	69.3
75°	47.1	46.7	47.1	47.8	48.2	48.5	48.5	50.0	51.2	52.7	54.5
77.5°	36.3	36.7	36.6	36.7	36.7	37.4	37.3	38.0	39.1	39.9	40.8
80°	29.1	29.5	29.1	29.5	29.9	30.2	29.9	30.2	31.4	32.1	32.1
82.5°	22.6	22.6	22.9	22.9	23.0	23.1	23.6	23.7	24.5	24.3	24.6
85°	13.4	13.1	13.1	13.1	13.4	13.8	13.4	13.4	13.8	13.8	13.8
87.5°	15.0	15.3	15.2	15.1	15.1	15.1	15.2	15.7	15.5	15.9	14.2
90°	51.3	50.9	50.6	50.3	49.9	50.1	50.8	51.4	52.1	52.8	45.4
92.5°	48.8	48.8	48.7	48.6	48.6	48.5	48.3	48.2	48.1	47.9	46.2
95°	93.5	94.1	94.8	95.5	96.1	96.5	96.5	96.5	96.5	96.5	95.8
97.5°	161.9	162.0	162.0	162.1	162.2	162.2	162.2	162.2	162.2	162.2	160.9
100°	206.5	206.9	207.2	207.5	207.9	208.0	208.0	208.0	208.0	208.0	207.0
102.5°	257.2	257.5	257.9	258.2	258.5	258.6	258.3	258.0	257.8	257.5	256.2
105°	334.7	334.7	334.7	334.7	334.7	334.3	333.7	333.0	332.3	331.7	331.0
107.5°	407.6	409.2	410.7	412.3	413.8	414.4	414.2	413.9	413.6	413.4	413.4
110°	464.3	465.3	466.3	467.3	468.3	468.9	468.9	468.9	468.9	468.9	468.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	518.6	519.3	520.1	520.8	521.5	522.3	523.1	523.9	524.7	525.5	525.8
115°	603.0	604.0	605.0	606.0	607.0	607.7	608.0	608.4	608.7	609.1	609.7
117.5°	683.5	684.5	685.5	686.5	687.5	688.5	689.3	690.1	690.9	691.7	693.5
120°	740.2	741.2	742.2	743.2	744.2	744.7	744.7	744.7	744.7	744.7	747.4
122.5°	795.7	796.4	797.2	797.9	798.6	799.4	800.2	801.0	801.8	802.6	804.5
125°	880.4	880.8	881.1	881.4	881.8	882.4	883.4	884.4	885.4	886.4	887.5
127.5°	957.6	958.7	959.7	960.8	961.9	963.0	964.2	965.4	966.6	967.9	969.1
130°	1013.1	1014.4	1015.8	1017.1	1018.4	1019.4	1020.1	1020.8	1021.5	1022.1	1022.8
132.5°	1066.1	1067.2	1068.3	1069.4	1070.4	1071.7	1073.2	1074.7	1076.1	1077.6	1077.5
135°	1148.8	1149.8	1150.8	1151.8	1152.8	1153.5	1153.8	1154.1	1154.5	1154.8	1154.1
137.5°	1223.5	1224.9	1226.2	1227.6	1228.9	1229.7	1230.0	1230.2	1230.5	1230.8	1229.9
140°	1275.4	1276.7	1278.1	1279.4	1280.8	1281.4	1281.4	1281.4	1281.4	1281.4	1279.8
142.5°	1322.4	1323.8	1325.1	1326.5	1327.8	1328.3	1328.1	1327.8	1327.5	1327.3	1326.1
145°	1393.0	1394.3	1395.7	1397.0	1398.3	1398.8	1398.5	1398.2	1397.8	1397.5	1395.5
147.5°	1456.0	1457.3	1458.5	1459.8	1461.1	1461.4	1460.6	1459.9	1459.2	1458.4	1457.1
150°	1497.0	1498.0	1499.0	1500.0	1501.0	1501.0	1500.0	1499.0	1498.0	1497.0	1495.7
152.5°	1535.6	1536.9	1538.1	1539.4	1540.7	1540.7	1539.4	1538.1	1536.9	1535.6	1534.0
155°	1587.5	1588.5	1589.5	1590.5	1591.5	1591.1	1589.5	1587.8	1586.1	1584.4	1583.4
157.5°	1632.1	1633.7	1635.3	1636.9	1638.5	1638.2	1635.9	1633.6	1631.3	1629.1	1628.5
160°	1659.8	1661.2	1662.5	1663.8	1665.2	1664.8	1662.8	1660.8	1658.8	1656.8	1656.5
162.5°	1683.9	1685.6	1687.2	1688.8	1690.4	1690.0	1687.8	1685.5	1683.2	1680.9	1680.6
165°	1715.6	1717.3	1719.0	1720.6	1722.3	1722.0	1719.6	1717.3	1714.9	1712.6	1712.6
167.5°	1741.5	1743.3	1745.0	1746.8	1748.5	1748.2	1745.9	1743.5	1741.2	1738.8	1738.9
170°	1754.8	1756.8	1758.8	1760.8	1762.8	1762.7	1760.3	1758.0	1755.6	1753.3	1753.6
172.5°	1765.7	1767.7	1769.7	1771.7	1773.7	1773.5	1771.2	1768.8	1766.5	1764.1	1764.5
175°	1777.4	1779.4	1781.4	1783.4	1785.5	1785.3	1782.9	1780.6	1778.3	1775.9	1776.6
177.5°	1782.8	1784.4	1786.1	1787.7	1789.3	1789.3	1787.7	1786.1	1784.4	1782.8	1783.4
180°	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8
2.5°	1100.4	1098.1	1096.0	1090.6	1087.9	1081.9	1081.0	1080.7	1073.0	1065.5	1063.4
5°	1138.2	1132.3	1123.3	1112.8	1102.0	1090.8	1083.3	1077.4	1062.4	1048.2	1040.0
7.5°	1176.3	1163.5	1148.0	1128.2	1111.7	1093.2	1079.5	1067.1	1045.9	1025.6	1011.9
10°	1204.7	1183.8	1163.3	1136.0	1114.7	1093.8	1074.4	1057.6	1033.7	1006.8	987.7
12.5°	1222.3	1199.3	1171.0	1144.4	1116.8	1090.2	1064.2	1042.6	1014.6	986.8	964.1
15°	1246.2	1221.5	1187.2	1149.1	1113.6	1078.9	1049.0	1022.1	985.5	952.3	924.6
17.5°	1265.7	1231.7	1194.8	1150.8	1109.7	1065.6	1027.1	992.7	952.0	911.9	879.4
20°	1271.9	1238.3	1195.7	1151.7	1103.1	1051.2	1009.8	972.4	928.7	885.0	847.7
22.5°	1268.0	1241.9	1194.5	1141.8	1092.1	1037.8	991.0	947.6	899.2	854.6	811.3
25°	1241.7	1232.7	1187.9	1130.4	1073.6	1010.5	956.4	908.9	853.7	805.9	758.8
27.5°	1180.2	1199.6	1171.8	1110.5	1047.4	979.7	918.9	864.9	807.5	753.7	706.8
30°	1121.1	1165.5	1153.5	1096.8	1026.2	959.7	891.4	835.0	773.8	718.5	672.2
32.5°	1040.1	1113.5	1125.2	1077.7	1004.7	931.6	860.0	803.9	740.0	681.7	636.6
35°	911.2	1021.0	1071.4	1041.1	967.9	889.2	815.2	749.9	685.6	628.1	583.3
37.5°	757.4	906.9	991.0	993.1	925.9	844.0	763.5	698.6	632.8	576.4	527.9
40°	657.6	819.7	929.1	953.4	896.6	808.1	726.7	660.6	596.4	541.1	485.5
42.5°	568.0	729.5	864.0	906.2	861.1	773.2	691.5	622.4	559.9	507.6	450.8
45°	459.3	600.5	748.7	824.2	799.2	717.7	631.5	565.8	507.1	461.9	407.4
47.5°	387.5	487.0	630.4	732.5	732.0	657.7	572.9	509.9	455.5	413.2	369.0
50°	346.5	433.2	554.6	670.3	680.0	617.7	537.0	474.6	423.9	379.4	343.9
52.5°	309.8	381.2	490.3	601.3	628.9	574.9	496.7	439.1	389.8	348.9	318.5
55°	261.8	317.0	400.0	503.8	545.6	507.5	438.0	384.3	344.3	310.0	283.8
57.5°	221.4	262.9	329.4	413.0	461.7	437.7	380.5	336.8	302.6	271.5	250.9
60°	196.1	230.0	286.4	356.3	410.0	393.2	344.3	303.6	274.5	247.6	228.2
62.5°	172.2	201.4	249.7	306.4	355.7	348.7	308.8	274.6	249.1	224.6	208.2
65°	138.5	159.8	197.5	242.0	281.6	284.9	256.2	233.0	210.2	190.8	176.3
67.5°	110.3	124.2	150.8	188.2	217.9	228.5	210.9	193.2	175.1	160.1	147.5
70°	93.0	104.2	123.6	153.9	181.1	192.3	182.2	168.4	152.7	140.4	129.6
72.5°	75.4	86.3	100.6	122.8	146.2	158.3	154.8	144.8	132.1	121.9	111.7
75°	56.8	60.1	69.8	84.8	103.1	113.5	116.1	110.9	100.8	93.0	87.0
77.5°	42.0	44.0	48.6	56.5	68.4	77.7	81.6	81.0	74.0	69.5	63.9
80°	33.6	34.7	37.0	40.3	49.3	58.6	61.2	61.2	56.4	54.5	48.9
82.5°	25.5	26.4	27.7	29.6	33.8	41.9	44.8	45.4	42.3	39.9	35.5
85°	14.6	14.2	14.9	16.1	16.8	19.0	23.5	24.3	23.5	20.5	19.4
87.5°	12.7	11.5	10.0	8.6	8.1	7.6	8.3	9.0	8.6	8.5	8.7
90°	38.0	30.7	23.3	17.6	13.6	9.5	5.5	1.5	5.5	9.5	13.6
92.5°	44.5	42.7	41.0	38.6	35.7	32.7	29.8	26.8	29.8	32.7	35.7
95°	95.1	94.5	93.8	91.8	88.4	85.1	81.7	78.4	81.7	85.1	88.4
97.5°	159.7	158.4	157.1	155.0	152.1	149.1	146.2	143.2	146.2	149.1	152.1
100°	206.0	205.0	204.0	202.2	199.5	196.8	194.1	191.5	194.1	196.8	199.5
102.5°	254.9	253.7	252.4	250.7	248.5	246.4	244.3	242.1	244.3	246.4	248.5
105°	330.3	329.7	329.0	328.1	327.1	326.1	325.1	324.1	325.1	326.1	327.1
107.5°	413.4	413.4	413.4	412.6	411.2	409.7	408.2	406.7	408.2	409.7	411.2
110°	468.9	468.9	468.9	467.8	465.8	463.8	461.8	459.8	461.8	463.8	465.8



TEST NUMBER: P331802

CATALOG NUMBER: S122RDIW-S485D1440U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	526.1	526.3	526.6	525.7	523.7	521.7	519.7	517.7	519.7	521.7	523.7
115°	610.4	611.1	611.7	611.1	609.1	607.0	605.0	603.0	605.0	607.0	609.1
117.5°	695.4	697.3	699.2	698.8	696.1	693.4	690.7	688.1	690.7	693.4	696.1
120°	750.1	752.8	755.5	755.5	752.8	750.1	747.4	744.7	747.4	750.1	752.8
122.5°	806.4	808.3	810.1	809.5	806.2	803.0	799.8	796.6	799.8	803.0	806.2
125°	888.5	889.5	890.5	889.5	886.4	883.4	880.4	877.4	880.4	883.4	886.4
127.5°	970.3	971.5	972.7	971.4	967.6	963.7	959.9	956.1	959.9	963.7	967.6
130°	1023.5	1024.1	1024.8	1023.0	1018.6	1014.3	1009.9	1005.5	1009.9	1014.3	1018.6
132.5°	1077.3	1077.2	1077.1	1075.2	1071.7	1068.1	1064.6	1061.0	1064.6	1068.1	1071.7
135°	1153.5	1152.8	1152.1	1149.9	1146.2	1142.6	1138.9	1135.2	1138.9	1142.6	1146.2
137.5°	1229.0	1228.2	1227.3	1225.3	1222.3	1219.3	1216.3	1213.3	1216.3	1219.3	1222.3
140°	1278.1	1276.4	1274.7	1272.4	1269.4	1266.4	1263.3	1260.3	1263.3	1266.4	1269.4
142.5°	1325.0	1323.8	1322.7	1320.6	1317.6	1314.6	1311.6	1308.6	1311.6	1314.6	1317.6
145°	1393.5	1391.5	1389.5	1387.3	1384.9	1382.6	1380.3	1377.9	1380.3	1382.6	1384.9
147.5°	1455.7	1454.4	1453.1	1451.0	1448.2	1445.3	1442.5	1439.7	1442.5	1445.3	1448.2
150°	1494.3	1493.0	1491.6	1490.0	1488.0	1486.0	1483.9	1481.9	1483.9	1486.0	1488.0
152.5°	1532.4	1530.8	1529.2	1527.4	1525.3	1523.3	1521.3	1519.3	1521.3	1523.3	1525.3
155°	1582.4	1581.4	1580.4	1579.4	1578.4	1577.4	1576.4	1575.4	1576.4	1577.4	1578.4
157.5°	1627.9	1627.3	1626.7	1626.0	1625.4	1624.7	1624.0	1623.3	1624.0	1624.7	1625.4
160°	1656.1	1655.8	1655.5	1655.0	1654.3	1653.6	1653.0	1652.3	1653.0	1653.6	1654.3
162.5°	1680.3	1679.9	1679.6	1679.4	1679.2	1679.1	1679.0	1678.8	1679.0	1679.1	1679.2
165°	1712.6	1712.6	1712.6	1712.8	1713.1	1713.4	1713.8	1714.1	1713.8	1713.4	1713.1
167.5°	1739.0	1739.0	1739.1	1739.6	1740.6	1741.6	1742.6	1743.6	1742.6	1741.6	1740.6
170°	1754.0	1754.3	1754.6	1755.3	1756.3	1757.3	1758.3	1759.3	1758.3	1757.3	1756.3
172.5°	1764.8	1765.2	1765.5	1766.2	1767.2	1768.2	1769.2	1770.2	1769.2	1768.2	1767.2
175°	1777.2	1777.9	1778.6	1779.4	1780.4	1781.4	1782.4	1783.4	1782.4	1781.4	1780.4
177.5°	1783.9	1784.4	1785.0	1785.7	1786.5	1787.3	1788.1	1788.9	1788.1	1787.3	1786.5
180°	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5



TEST NUMBER: P331802

CATALOG NUMBER: S122RDIW-S485D1440U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8
2.5°	1059.5	1057.4	1053.5	1047.6	1044.0	1037.7	1033.5	1035.9	1036.5	1035.9	1035.3
5°	1031.1	1023.2	1012.4	1001.9	992.2	981.8	975.8	973.2	967.9	965.0	963.5
7.5°	996.6	983.1	967.8	949.6	934.1	917.9	909.6	905.5	894.8	889.0	883.9
10°	970.9	949.6	934.3	910.4	895.9	874.6	860.0	860.4	845.8	837.6	831.6
12.5°	942.6	919.2	893.7	872.2	852.0	834.9	817.3	810.2	794.7	786.8	770.7
15°	895.5	868.2	841.4	812.2	791.7	765.2	739.8	708.8	683.8	662.1	656.1
17.5°	844.1	810.4	783.4	749.2	714.0	669.4	640.0	622.0	606.9	595.5	587.0
20°	808.9	774.5	745.8	694.2	646.8	616.5	594.9	581.1	565.4	553.1	546.3
22.5°	771.8	736.0	696.8	639.2	602.3	578.0	558.7	542.8	532.2	522.6	516.5
25°	719.2	680.0	615.4	575.8	546.0	520.6	507.1	497.4	486.2	473.1	467.2
27.5°	663.7	601.3	554.9	525.5	497.0	480.5	468.4	453.9	443.9	438.0	431.8
30°	622.1	559.8	523.6	491.4	471.3	453.0	438.8	430.6	420.9	410.8	406.7
32.5°	575.8	526.0	491.3	464.6	444.1	428.5	417.3	404.0	397.0	390.8	382.2
35°	518.3	480.6	448.9	427.2	407.8	395.1	382.0	374.2	361.5	356.3	352.9
37.5°	469.6	436.9	413.2	390.4	375.0	361.0	353.0	340.5	335.0	327.7	320.6
40°	442.1	410.0	387.3	368.6	351.4	340.9	330.9	320.8	312.6	309.2	300.6
42.5°	414.1	387.9	365.1	344.7	333.2	322.1	309.4	302.0	293.4	288.0	282.7
45°	375.3	352.2	332.7	315.9	303.2	291.7	283.4	271.1	266.3	255.4	250.9
47.5°	341.2	319.7	301.2	285.2	272.8	265.3	253.3	243.6	235.9	229.2	223.5
50°	317.0	299.1	281.2	267.0	255.8	245.0	232.7	227.8	215.8	212.5	209.1
52.5°	294.9	277.9	261.5	247.6	236.4	225.9	215.0	208.7	200.6	197.2	194.8
55°	264.0	247.6	231.9	219.6	208.4	197.5	190.8	183.0	179.2	176.6	173.6
57.5°	232.9	218.2	206.1	193.7	182.4	173.8	166.0	161.3	157.4	154.0	150.4
60°	213.2	199.0	188.2	176.6	165.1	158.0	152.0	146.4	141.9	136.7	135.2
62.5°	192.3	179.9	170.0	158.7	148.6	142.1	136.5	131.2	125.8	118.2	116.1
65°	163.6	153.9	143.4	134.1	125.1	118.8	110.5	104.6	102.3	101.6	101.2
67.5°	137.6	128.4	119.4	109.9	101.7	95.8	91.6	90.7	89.2	88.7	87.7
70°	120.2	111.7	102.7	93.7	85.9	84.8	83.3	81.8	79.9	79.2	78.4
72.5°	104.7	95.8	86.9	79.7	76.3	74.9	73.4	71.9	70.7	69.9	69.5
75°	80.3	72.1	66.1	63.5	61.6	60.5	58.3	57.1	56.4	55.3	54.9
77.5°	57.8	53.2	50.4	48.8	46.8	45.6	44.4	43.2	42.4	42.2	41.6
80°	44.1	41.8	40.0	37.7	37.0	35.5	35.1	34.0	34.4	33.2	33.2
82.5°	34.2	31.4	29.8	28.8	28.0	26.8	26.4	25.9	26.0	25.2	25.2
85°	17.6	16.8	16.1	15.3	15.3	14.2	14.6	14.2	14.2	13.4	13.1
87.5°	9.2	10.0	10.9	12.4	13.9	15.0	14.9	14.5	14.3	14.2	13.9
90°	17.6	23.3	30.7	38.0	45.4	52.8	52.1	51.4	50.8	50.1	49.9
92.5°	38.6	41.0	42.7	44.5	46.2	47.9	48.1	48.2	48.3	48.5	48.6
95°	91.8	93.8	94.5	95.1	95.8	96.5	96.5	96.5	96.5	96.5	96.1
97.5°	155.0	157.1	158.4	159.7	160.9	162.2	162.2	162.2	162.2	162.2	162.2
100°	202.2	204.0	205.0	206.0	207.0	208.0	208.0	208.0	208.0	208.0	207.9
102.5°	250.7	252.4	253.7	254.9	256.2	257.5	257.8	258.0	258.3	258.6	258.5
105°	328.1	329.0	329.7	330.3	331.0	331.7	332.3	333.0	333.7	334.3	334.7
107.5°	412.6	413.4	413.4	413.4	413.4	413.4	413.6	413.9	414.2	414.4	413.8
110°	467.8	468.9	468.9	468.9	468.9	468.9	468.9	468.9	468.9	468.9	468.3



TEST NUMBER: P331802

CATALOG NUMBER: S122RDIW-S485D1440U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	525.7	526.6	526.3	526.1	525.8	525.5	524.7	523.9	523.1	522.3	521.5
115°	611.1	611.7	611.1	610.4	609.7	609.1	608.7	608.4	608.0	607.7	607.0
117.5°	698.8	699.2	697.3	695.4	693.5	691.7	690.9	690.1	689.3	688.5	687.5
120°	755.5	755.5	752.8	750.1	747.4	744.7	744.7	744.7	744.7	744.7	744.2
122.5°	809.5	810.1	808.3	806.4	804.5	802.6	801.8	801.0	800.2	799.4	798.6
125°	889.5	890.5	889.5	888.5	887.5	886.4	885.4	884.4	883.4	882.4	881.8
127.5°	971.4	972.7	971.5	970.3	969.1	967.9	966.6	965.4	964.2	963.0	961.9
130°	1023.0	1024.8	1024.1	1023.5	1022.8	1022.1	1021.5	1020.8	1020.1	1019.4	1018.4
132.5°	1075.2	1077.1	1077.2	1077.3	1077.5	1077.6	1076.1	1074.7	1073.2	1071.7	1070.4
135°	1149.9	1152.1	1152.8	1153.5	1154.1	1154.8	1154.5	1154.1	1153.8	1153.5	1152.8
137.5°	1225.3	1227.3	1228.2	1229.0	1229.9	1230.8	1230.5	1230.2	1230.0	1229.7	1228.9
140°	1272.4	1274.7	1276.4	1278.1	1279.8	1281.4	1281.4	1281.4	1281.4	1281.4	1280.8
142.5°	1320.6	1322.7	1323.8	1325.0	1326.1	1327.3	1327.5	1327.8	1328.1	1328.3	1327.8
145°	1387.3	1389.5	1391.5	1393.5	1395.5	1397.5	1397.8	1398.2	1398.5	1398.8	1398.3
147.5°	1451.0	1453.1	1454.4	1455.7	1457.1	1458.4	1459.2	1459.9	1460.6	1461.4	1461.1
150°	1490.0	1491.6	1493.0	1494.3	1495.7	1497.0	1498.0	1499.0	1500.0	1501.0	1501.0
152.5°	1527.4	1529.2	1530.8	1532.4	1534.0	1535.6	1536.9	1538.1	1539.4	1540.7	1540.7
155°	1579.4	1580.4	1581.4	1582.4	1583.4	1584.4	1586.1	1587.8	1589.5	1591.1	1591.5
157.5°	1626.0	1626.7	1627.3	1627.9	1628.5	1629.1	1631.3	1633.6	1635.9	1638.2	1638.5
160°	1655.0	1655.5	1655.8	1656.1	1656.5	1656.8	1658.8	1660.8	1662.8	1664.8	1665.2
162.5°	1679.4	1679.6	1679.9	1680.3	1680.6	1680.9	1683.2	1685.5	1687.8	1690.0	1690.4
165°	1712.8	1712.6	1712.6	1712.6	1712.6	1712.6	1714.9	1717.3	1719.6	1722.0	1722.3
167.5°	1739.6	1739.1	1739.0	1739.0	1738.9	1738.8	1741.2	1743.5	1745.9	1748.2	1748.5
170°	1755.3	1754.6	1754.3	1754.0	1753.6	1753.3	1755.6	1758.0	1760.3	1762.7	1762.8
172.5°	1766.2	1765.5	1765.2	1764.8	1764.5	1764.1	1766.5	1768.8	1771.2	1773.5	1773.7
175°	1779.4	1778.6	1777.9	1777.2	1776.6	1775.9	1778.3	1780.6	1782.9	1785.3	1785.5
177.5°	1785.7	1785.0	1784.4	1783.9	1783.4	1782.8	1784.4	1786.1	1787.7	1789.3	1789.3
180°	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5



TEST NUMBER: P331802

CATALOG NUMBER: S122RDIW-S485D1440U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8
2.5°	1032.0	1032.6	1031.7	1032.3	1031.7	1032.6	1032.0	1035.3	1035.9	1036.5	1035.9
5°	961.6	957.1	956.4	955.3	956.4	957.1	961.6	963.5	965.0	967.9	973.2
7.5°	877.5	876.8	875.0	872.3	875.0	876.8	877.5	883.9	889.0	894.8	905.5
10°	823.4	821.6	821.2	818.6	821.2	821.6	823.4	831.6	837.6	845.8	860.4
12.5°	760.1	748.1	746.8	740.3	746.8	748.1	760.1	770.7	786.8	794.7	810.2
15°	647.2	644.9	637.5	632.6	637.5	644.9	647.2	656.1	662.1	683.8	708.8
17.5°	582.6	575.3	573.0	572.0	573.0	575.3	582.6	587.0	595.5	606.9	622.0
20°	541.1	534.4	533.3	532.5	533.3	534.4	541.1	546.3	553.1	565.4	581.1
22.5°	512.4	505.4	502.5	500.3	502.5	505.4	512.4	516.5	522.6	532.2	542.8
25°	463.4	460.8	459.3	458.6	459.3	460.8	463.4	467.2	473.1	486.2	497.4
27.5°	425.1	419.4	418.2	416.3	418.2	419.4	425.1	431.8	438.0	443.9	453.9
30°	403.3	401.4	398.8	396.6	398.8	401.4	403.3	406.7	410.8	420.9	430.6
32.5°	377.6	376.1	373.7	372.7	373.7	376.1	377.6	382.2	390.8	397.0	404.0
35°	349.2	343.9	341.7	338.3	341.7	343.9	349.2	352.9	356.3	361.5	374.2
37.5°	319.1	316.3	313.2	314.3	313.2	316.3	319.1	320.6	327.7	335.0	340.5
40°	295.8	293.9	293.1	292.8	293.1	293.9	295.8	300.6	309.2	312.6	320.8
42.5°	277.2	272.1	270.1	270.1	270.1	272.1	277.2	282.7	288.0	293.4	302.0
45°	249.1	244.2	240.9	241.2	240.9	244.2	249.1	250.9	255.4	266.3	271.1
47.5°	220.3	220.1	218.0	218.7	218.0	220.1	220.3	223.5	229.2	235.9	243.6
50°	206.5	204.3	202.8	203.1	202.8	204.3	206.5	209.1	212.5	215.8	227.8
52.5°	193.4	191.4	190.2	191.8	190.2	191.4	193.4	194.8	197.2	200.6	208.7
55°	171.8	169.5	169.2	168.8	169.2	169.5	171.8	173.6	176.6	179.2	183.0
57.5°	147.7	146.2	143.9	143.0	143.9	146.2	147.7	150.4	154.0	157.4	161.3
60°	130.3	127.3	123.6	123.2	123.6	127.3	130.3	135.2	136.7	141.9	146.4
62.5°	114.5	113.9	113.2	113.1	113.2	113.9	114.5	116.1	118.2	125.8	131.2
65°	100.5	100.1	100.5	100.8	100.5	100.1	100.5	101.2	101.6	102.3	104.6
67.5°	87.5	86.9	86.2	86.5	86.2	86.9	87.5	87.7	88.7	89.2	90.7
70°	77.7	77.3	76.9	76.9	76.9	77.3	77.7	78.4	79.2	79.9	81.8
72.5°	68.1	68.0	67.7	67.4	67.7	68.0	68.1	69.5	69.9	70.7	71.9
75°	54.5	53.8	53.8	53.8	53.8	53.8	54.5	54.9	55.3	56.4	57.1
77.5°	41.5	41.2	40.8	40.5	40.8	41.2	41.5	41.6	42.2	42.4	43.2
80°	32.9	32.5	32.1	32.1	32.1	32.5	32.9	33.2	33.2	34.4	34.0
82.5°	25.1	24.7	24.6	24.3	24.6	24.7	25.1	25.2	25.2	26.0	25.9
85°	13.4	13.8	13.4	14.2	13.4	13.8	13.4	13.1	13.4	14.2	14.2
87.5°	13.9	13.7	14.1	13.8	14.1	13.7	13.9	13.9	14.2	14.3	14.5
90°	50.3	50.6	50.9	51.3	50.9	50.6	50.3	49.9	50.1	50.8	51.4
92.5°	48.6	48.7	48.8	48.8	48.8	48.7	48.6	48.6	48.5	48.3	48.2
95°	95.5	94.8	94.1	93.5	94.1	94.8	95.5	96.1	96.5	96.5	96.5
97.5°	162.1	162.0	162.0	161.9	162.0	162.0	162.1	162.2	162.2	162.2	162.2
100°	207.5	207.2	206.9	206.5	206.9	207.2	207.5	207.9	208.0	208.0	208.0
102.5°	258.2	257.9	257.5	257.2	257.5	257.9	258.2	258.5	258.6	258.3	258.0
105°	334.7	334.7	334.7	334.7	334.7	334.7	334.7	334.7	334.3	333.7	333.0
107.5°	412.3	410.7	409.2	407.6	409.2	410.7	412.3	413.8	414.4	414.2	413.9
110°	467.3	466.3	465.3	464.3	465.3	466.3	467.3	468.3	468.9	468.9	468.9



TEST NUMBER: P331802

CATALOG NUMBER: S122RDIW-S485D1440U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	520.8	520.1	519.3	518.6	519.3	520.1	520.8	521.5	522.3	523.1	523.9
115°	606.0	605.0	604.0	603.0	604.0	605.0	606.0	607.0	607.7	608.0	608.4
117.5°	686.5	685.5	684.5	683.5	684.5	685.5	686.5	687.5	688.5	689.3	690.1
120°	743.2	742.2	741.2	740.2	741.2	742.2	743.2	744.2	744.7	744.7	744.7
122.5°	797.9	797.2	796.4	795.7	796.4	797.2	797.9	798.6	799.4	800.2	801.0
125°	881.4	881.1	880.8	880.4	880.8	881.1	881.4	881.8	882.4	883.4	884.4
127.5°	960.8	959.7	958.7	957.6	958.7	959.7	960.8	961.9	963.0	964.2	965.4
130°	1017.1	1015.8	1014.4	1013.1	1014.4	1015.8	1017.1	1018.4	1019.4	1020.1	1020.8
132.5°	1069.4	1068.3	1067.2	1066.1	1067.2	1068.3	1069.4	1070.4	1071.7	1073.2	1074.7
135°	1151.8	1150.8	1149.8	1148.8	1149.8	1150.8	1151.8	1152.8	1153.5	1153.8	1154.1
137.5°	1227.6	1226.2	1224.9	1223.5	1224.9	1226.2	1227.6	1228.9	1229.7	1230.0	1230.2
140°	1279.4	1278.1	1276.7	1275.4	1276.7	1278.1	1279.4	1280.8	1281.4	1281.4	1281.4
142.5°	1326.5	1325.1	1323.8	1322.4	1323.8	1325.1	1326.5	1327.8	1328.3	1328.1	1327.8
145°	1397.0	1395.7	1394.3	1393.0	1394.3	1395.7	1397.0	1398.3	1398.8	1398.5	1398.2
147.5°	1459.8	1458.5	1457.3	1456.0	1457.3	1458.5	1459.8	1461.1	1461.4	1460.6	1459.9
150°	1500.0	1499.0	1498.0	1497.0	1498.0	1499.0	1500.0	1501.0	1501.0	1500.0	1499.0
152.5°	1539.4	1538.1	1536.9	1535.6	1536.9	1538.1	1539.4	1540.7	1540.7	1539.4	1538.1
155°	1590.5	1589.5	1588.5	1587.5	1588.5	1589.5	1590.5	1591.5	1591.1	1589.5	1587.8
157.5°	1636.9	1635.3	1633.7	1632.1	1633.7	1635.3	1636.9	1638.5	1638.2	1635.9	1633.6
160°	1663.8	1662.5	1661.2	1659.8	1661.2	1662.5	1663.8	1665.2	1664.8	1662.8	1660.8
162.5°	1688.8	1687.2	1685.6	1683.9	1685.6	1687.2	1688.8	1690.4	1690.0	1687.8	1685.5
165°	1720.6	1719.0	1717.3	1715.6	1717.3	1719.0	1720.6	1722.3	1722.0	1719.6	1717.3
167.5°	1746.8	1745.0	1743.3	1741.5	1743.3	1745.0	1746.8	1748.5	1748.2	1745.9	1743.5
170°	1760.8	1758.8	1756.8	1754.8	1756.8	1758.8	1760.8	1762.8	1762.7	1760.3	1758.0
172.5°	1771.7	1769.7	1767.7	1765.7	1767.7	1769.7	1771.7	1773.7	1773.5	1771.2	1768.8
175°	1783.4	1781.4	1779.4	1777.4	1779.4	1781.4	1783.4	1785.5	1785.3	1782.9	1780.6
177.5°	1787.7	1786.1	1784.4	1782.8	1784.4	1786.1	1787.7	1789.3	1789.3	1787.7	1786.1
180°	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5



TEST NUMBER: P331802

CATALOG NUMBER: S122RDIW-S485D1440U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8
2.5°	1033.5	1037.7	1044.0	1047.6	1053.5	1057.4	1059.5	1063.4	1065.5	1073.0	1080.7
5°	975.8	981.8	992.2	1001.9	1012.4	1023.2	1031.1	1040.0	1048.2	1062.4	1077.4
7.5°	909.6	917.9	934.1	949.6	967.8	983.1	996.6	1011.9	1025.6	1045.9	1067.1
10°	860.0	874.6	895.9	910.4	934.3	949.6	970.9	987.7	1006.8	1033.7	1057.6
12.5°	817.3	834.9	852.0	872.2	893.7	919.2	942.6	964.1	986.8	1014.6	1042.6
15°	739.8	765.2	791.7	812.2	841.4	868.2	895.5	924.6	952.3	985.5	1022.1
17.5°	640.0	669.4	714.0	749.2	783.4	810.4	844.1	879.4	911.9	952.0	992.7
20°	594.9	616.5	646.8	694.2	745.8	774.5	808.9	847.7	885.0	928.7	972.4
22.5°	558.7	578.0	602.3	639.2	696.8	736.0	771.8	811.3	854.6	899.2	947.6
25°	507.1	520.6	546.0	575.8	615.4	680.0	719.2	758.8	805.9	853.7	908.9
27.5°	468.4	480.5	497.0	525.5	554.9	601.3	663.7	706.8	753.7	807.5	864.9
30°	438.8	453.0	471.3	491.4	523.6	559.8	622.1	672.2	718.5	773.8	835.0
32.5°	417.3	428.5	444.1	464.6	491.3	526.0	575.8	636.6	681.7	740.0	803.9
35°	382.0	395.1	407.8	427.2	448.9	480.6	518.3	583.3	628.1	685.6	749.9
37.5°	353.0	361.0	375.0	390.4	413.2	436.9	469.6	527.9	576.4	632.8	698.6
40°	330.9	340.9	351.4	368.6	387.3	410.0	442.1	485.5	541.1	596.4	660.6
42.5°	309.4	322.1	333.2	344.7	365.1	387.9	414.1	450.8	507.6	559.9	622.4
45°	283.4	291.7	303.2	315.9	332.7	352.2	375.3	407.4	461.9	507.1	565.8
47.5°	253.3	265.3	272.8	285.2	301.2	319.7	341.2	369.0	413.2	455.5	509.9
50°	232.7	245.0	255.8	267.0	281.2	299.1	317.0	343.9	379.4	423.9	474.6
52.5°	215.0	225.9	236.4	247.6	261.5	277.9	294.9	318.5	348.9	389.8	439.1
55°	190.8	197.5	208.4	219.6	231.9	247.6	264.0	283.8	310.0	344.3	384.3
57.5°	166.0	173.8	182.4	193.7	206.1	218.2	232.9	250.9	271.5	302.6	336.8
60°	152.0	158.0	165.1	176.6	188.2	199.0	213.2	228.2	247.6	274.5	303.6
62.5°	136.5	142.1	148.6	158.7	170.0	179.9	192.3	208.2	224.6	249.1	274.6
65°	110.5	118.8	125.1	134.1	143.4	153.9	163.6	176.3	190.8	210.2	233.0
67.5°	91.6	95.8	101.7	109.9	119.4	128.4	137.6	147.5	160.1	175.1	193.2
70°	83.3	84.8	85.9	93.7	102.7	111.7	120.2	129.6	140.4	152.7	168.4
72.5°	73.4	74.9	76.3	79.7	86.9	95.8	104.7	111.7	121.9	132.1	144.8
75°	58.3	60.5	61.6	63.5	66.1	72.1	80.3	87.0	93.0	100.8	110.9
77.5°	44.4	45.6	46.8	48.8	50.4	53.2	57.8	63.9	69.5	74.0	81.0
80°	35.1	35.5	37.0	37.7	40.0	41.8	44.1	48.9	54.5	56.4	61.2
82.5°	26.4	26.8	28.0	28.8	29.8	31.4	34.2	35.5	39.9	42.3	45.4
85°	14.6	14.2	15.3	15.3	16.1	16.8	17.6	19.4	20.5	23.5	24.3
87.5°	14.9	15.0	13.9	12.4	10.9	10.0	9.2	8.7	8.5	8.6	9.0
90°	52.1	52.8	45.4	38.0	30.7	23.3	17.6	13.6	9.5	5.5	1.5
92.5°	48.1	47.9	46.2	44.5	42.7	41.0	38.6	35.7	32.7	29.8	26.8
95°	96.5	96.5	95.8	95.1	94.5	93.8	91.8	88.4	85.1	81.7	78.4
97.5°	162.2	162.2	160.9	159.7	158.4	157.1	155.0	152.1	149.1	146.2	143.2
100°	208.0	208.0	207.0	206.0	205.0	204.0	202.2	199.5	196.8	194.1	191.5
102.5°	257.8	257.5	256.2	254.9	253.7	252.4	250.7	248.5	246.4	244.3	242.1
105°	332.3	331.7	331.0	330.3	329.7	329.0	328.1	327.1	326.1	325.1	324.1
107.5°	413.6	413.4	413.4	413.4	413.4	413.4	412.6	411.2	409.7	408.2	406.7
110°	468.9	468.9	468.9	468.9	468.9	468.9	467.8	465.8	463.8	461.8	459.8



TEST NUMBER: P331802

CATALOG NUMBER: S122RDIW-S485D1440U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	524.7	525.5	525.8	526.1	526.3	526.6	525.7	523.7	521.7	519.7	517.7
115°	608.7	609.1	609.7	610.4	611.1	611.7	611.1	609.1	607.0	605.0	603.0
117.5°	690.9	691.7	693.5	695.4	697.3	699.2	698.8	696.1	693.4	690.7	688.1
120°	744.7	744.7	747.4	750.1	752.8	755.5	755.5	752.8	750.1	747.4	744.7
122.5°	801.8	802.6	804.5	806.4	808.3	810.1	809.5	806.2	803.0	799.8	796.6
125°	885.4	886.4	887.5	888.5	889.5	890.5	889.5	886.4	883.4	880.4	877.4
127.5°	966.6	967.9	969.1	970.3	971.5	972.7	971.4	967.6	963.7	959.9	956.1
130°	1021.5	1022.1	1022.8	1023.5	1024.1	1024.8	1023.0	1018.6	1014.3	1009.9	1005.5
132.5°	1076.1	1077.6	1077.5	1077.3	1077.2	1077.1	1075.2	1071.7	1068.1	1064.6	1061.0
135°	1154.5	1154.8	1154.1	1153.5	1152.8	1152.1	1149.9	1146.2	1142.6	1138.9	1135.2
137.5°	1230.5	1230.8	1229.9	1229.0	1228.2	1227.3	1225.3	1222.3	1219.3	1216.3	1213.3
140°	1281.4	1281.4	1279.8	1278.1	1276.4	1274.7	1272.4	1269.4	1266.4	1263.3	1260.3
142.5°	1327.5	1327.3	1326.1	1325.0	1323.8	1322.7	1320.6	1317.6	1314.6	1311.6	1308.6
145°	1397.8	1397.5	1395.5	1393.5	1391.5	1389.5	1387.3	1384.9	1382.6	1380.3	1377.9
147.5°	1459.2	1458.4	1457.1	1455.7	1454.4	1453.1	1451.0	1448.2	1445.3	1442.5	1439.7
150°	1498.0	1497.0	1495.7	1494.3	1493.0	1491.6	1490.0	1488.0	1486.0	1483.9	1481.9
152.5°	1536.9	1535.6	1534.0	1532.4	1530.8	1529.2	1527.4	1525.3	1523.3	1521.3	1519.3
155°	1586.1	1584.4	1583.4	1582.4	1581.4	1580.4	1579.4	1578.4	1577.4	1576.4	1575.4
157.5°	1631.3	1629.1	1628.5	1627.9	1627.3	1626.7	1626.0	1625.4	1624.7	1624.0	1623.3
160°	1658.8	1656.8	1656.5	1656.1	1655.8	1655.5	1655.0	1654.3	1653.6	1653.0	1652.3
162.5°	1683.2	1680.9	1680.6	1680.3	1679.9	1679.6	1679.4	1679.2	1679.1	1679.0	1678.8
165°	1714.9	1712.6	1712.6	1712.6	1712.6	1712.6	1712.8	1713.1	1713.4	1713.8	1714.1
167.5°	1741.2	1738.8	1738.9	1739.0	1739.0	1739.1	1739.6	1740.6	1741.6	1742.6	1743.6
170°	1755.6	1753.3	1753.6	1754.0	1754.3	1754.6	1755.3	1756.3	1757.3	1758.3	1759.3
172.5°	1766.5	1764.1	1764.5	1764.8	1765.2	1765.5	1766.2	1767.2	1768.2	1769.2	1770.2
175°	1778.3	1775.9	1776.6	1777.2	1777.9	1778.6	1779.4	1780.4	1781.4	1782.4	1783.4
177.5°	1784.4	1782.8	1783.4	1783.9	1784.4	1785.0	1785.7	1786.5	1787.3	1788.1	1788.9
180°	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5



TEST NUMBER: P331802

CATALOG NUMBER: S122RDIW-S485D1440U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8
2.5°	1081.0	1081.9	1087.9	1090.6	1096.0	1098.1	1100.4	1099.8	1099.8	1101.0	1109.4
5°	1083.3	1090.8	1102.0	1112.8	1123.3	1132.3	1138.2	1144.2	1146.4	1157.3	1167.0
7.5°	1079.5	1093.2	1111.7	1128.2	1148.0	1163.5	1176.3	1187.9	1195.8	1211.6	1227.7
10°	1074.4	1093.8	1114.7	1136.0	1163.3	1183.8	1204.7	1220.8	1226.0	1249.5	1263.0
12.5°	1064.2	1090.2	1116.8	1144.4	1171.0	1199.3	1222.3	1238.4	1256.8	1277.9	1302.7
15°	1049.0	1078.9	1113.6	1149.1	1187.2	1221.5	1246.2	1274.2	1294.3	1317.5	1339.1
17.5°	1027.1	1065.6	1109.7	1150.8	1194.8	1231.7	1265.7	1292.5	1306.7	1319.9	1323.2
20°	1009.8	1051.2	1103.1	1151.7	1195.7	1238.3	1271.9	1294.3	1298.1	1298.4	1278.6
22.5°	991.0	1037.8	1092.1	1141.8	1194.5	1241.9	1268.0	1277.6	1262.8	1237.5	1199.2
25°	956.4	1010.5	1073.6	1130.4	1187.9	1232.7	1241.7	1224.9	1173.0	1118.4	1049.4
27.5°	918.9	979.7	1047.4	1110.5	1171.8	1199.6	1180.2	1119.6	1026.1	944.9	846.4
30°	891.4	959.7	1026.2	1096.8	1153.5	1165.5	1121.1	1031.8	922.8	800.3	702.1
32.5°	860.0	931.6	1004.7	1077.7	1125.2	1113.5	1040.1	930.2	802.4	682.0	589.1
35°	815.2	889.2	967.9	1041.1	1071.4	1021.0	911.2	768.2	637.5	525.1	461.2
37.5°	763.5	844.0	925.9	993.1	991.0	906.9	757.4	609.7	499.9	433.4	387.9
40°	726.7	808.1	896.6	953.4	929.1	819.7	657.6	518.3	438.0	385.0	351.8
42.5°	691.5	773.2	861.1	906.2	864.0	729.5	568.0	458.9	392.6	351.3	324.3
45°	631.5	717.7	799.2	824.2	748.7	600.5	459.3	380.2	336.1	305.5	286.8
47.5°	572.9	657.7	732.0	732.5	630.4	487.0	387.5	329.0	291.4	267.7	254.1
50°	537.0	617.7	680.0	670.3	554.6	433.2	346.5	296.1	264.8	246.5	232.3
52.5°	496.7	574.9	628.9	601.3	490.3	381.2	309.8	267.5	241.5	225.6	212.9
55°	438.0	507.5	545.6	503.8	400.0	317.0	261.8	228.5	209.1	195.7	184.9
57.5°	380.5	437.7	461.7	413.0	329.4	262.9	221.4	196.5	177.2	167.6	162.0
60°	344.3	393.2	410.0	356.3	286.4	230.0	196.1	172.9	158.7	152.4	146.8
62.5°	308.8	348.7	355.7	306.4	249.7	201.4	172.2	152.6	143.2	137.1	131.8
65°	256.2	284.9	281.6	242.0	197.5	159.8	138.5	126.6	119.5	110.9	101.6
67.5°	210.9	228.5	217.9	188.2	150.8	124.2	110.3	101.3	92.5	84.3	82.2
70°	182.2	192.3	181.1	153.9	123.6	104.2	93.0	82.2	76.9	75.1	71.7
72.5°	154.8	158.3	146.2	122.8	100.6	86.3	75.4	69.3	66.5	64.9	62.7
75°	116.1	113.5	103.1	84.8	69.8	60.1	56.8	54.5	52.7	51.2	50.0
77.5°	81.6	77.7	68.4	56.5	48.6	44.0	42.0	40.8	39.9	39.1	38.0
80°	61.2	58.6	49.3	40.3	37.0	34.7	33.6	32.1	32.1	31.4	30.2
82.5°	44.8	41.9	33.8	29.6	27.7	26.4	25.5	24.6	24.3	24.5	23.7
85°	23.5	19.0	16.8	16.1	14.9	14.2	14.6	13.8	13.8	13.8	13.4
87.5°	8.3	7.6	8.1	8.6	10.0	11.5	12.7	14.2	15.9	15.5	15.7
90°	5.5	9.5	13.6	17.6	23.3	30.7	38.0	45.4	52.8	52.1	51.4
92.5°	29.8	32.7	35.7	38.6	41.0	42.7	44.5	46.2	47.9	48.1	48.2
95°	81.7	85.1	88.4	91.8	93.8	94.5	95.1	95.8	96.5	96.5	96.5
97.5°	146.2	149.1	152.1	155.0	157.1	158.4	159.7	160.9	162.2	162.2	162.2
100°	194.1	196.8	199.5	202.2	204.0	205.0	206.0	207.0	208.0	208.0	208.0
102.5°	244.3	246.4	248.5	250.7	252.4	253.7	254.9	256.2	257.5	257.8	258.0
105°	325.1	326.1	327.1	328.1	329.0	329.7	330.3	331.0	331.7	332.3	333.0
107.5°	408.2	409.7	411.2	412.6	413.4	413.4	413.4	413.4	413.4	413.6	413.9
110°	461.8	463.8	465.8	467.8	468.9	468.9	468.9	468.9	468.9	468.9	468.9



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	519.7	521.7	523.7	525.7	526.6	526.3	526.1	525.8	525.5	524.7	523.9
115°	605.0	607.0	609.1	611.1	611.7	611.1	610.4	609.7	609.1	608.7	608.4
117.5°	690.7	693.4	696.1	698.8	699.2	697.3	695.4	693.5	691.7	690.9	690.1
120°	747.4	750.1	752.8	755.5	755.5	752.8	750.1	747.4	744.7	744.7	744.7
122.5°	799.8	803.0	806.2	809.5	810.1	808.3	806.4	804.5	802.6	801.8	801.0
125°	880.4	883.4	886.4	889.5	890.5	889.5	888.5	887.5	886.4	885.4	884.4
127.5°	959.9	963.7	967.6	971.4	972.7	971.5	970.3	969.1	967.9	966.6	965.4
130°	1009.9	1014.3	1018.6	1023.0	1024.8	1024.1	1023.5	1022.8	1022.1	1021.5	1020.8
132.5°	1064.6	1068.1	1071.7	1075.2	1077.1	1077.2	1077.3	1077.5	1077.6	1076.1	1074.7
135°	1138.9	1142.6	1146.2	1149.9	1152.1	1152.8	1153.5	1154.1	1154.8	1154.5	1154.1
137.5°	1216.3	1219.3	1222.3	1225.3	1227.3	1228.2	1229.0	1229.9	1230.8	1230.5	1230.2
140°	1263.3	1266.4	1269.4	1272.4	1274.7	1276.4	1278.1	1279.8	1281.4	1281.4	1281.4
142.5°	1311.6	1314.6	1317.6	1320.6	1322.7	1323.8	1325.0	1326.1	1327.3	1327.5	1327.8
145°	1380.3	1382.6	1384.9	1387.3	1389.5	1391.5	1393.5	1395.5	1397.5	1397.8	1398.2
147.5°	1442.5	1445.3	1448.2	1451.0	1453.1	1454.4	1455.7	1457.1	1458.4	1459.2	1459.9
150°	1483.9	1486.0	1488.0	1490.0	1491.6	1493.0	1494.3	1495.7	1497.0	1498.0	1499.0
152.5°	1521.3	1523.3	1525.3	1527.4	1529.2	1530.8	1532.4	1534.0	1535.6	1536.9	1538.1
155°	1576.4	1577.4	1578.4	1579.4	1580.4	1581.4	1582.4	1583.4	1584.4	1586.1	1587.8
157.5°	1624.0	1624.7	1625.4	1626.0	1626.7	1627.3	1627.9	1628.5	1629.1	1631.3	1633.6
160°	1653.0	1653.6	1654.3	1655.0	1655.5	1655.8	1656.1	1656.5	1656.8	1658.8	1660.8
162.5°	1679.0	1679.1	1679.2	1679.4	1679.6	1679.9	1680.3	1680.6	1680.9	1683.2	1685.5
165°	1713.8	1713.4	1713.1	1712.8	1712.6	1712.6	1712.6	1712.6	1712.6	1714.9	1717.3
167.5°	1742.6	1741.6	1740.6	1739.6	1739.1	1739.0	1739.0	1738.9	1738.8	1741.2	1743.5
170°	1758.3	1757.3	1756.3	1755.3	1754.6	1754.3	1754.0	1753.6	1753.3	1755.6	1758.0
172.5°	1769.2	1768.2	1767.2	1766.2	1765.5	1765.2	1764.8	1764.5	1764.1	1766.5	1768.8
175°	1782.4	1781.4	1780.4	1779.4	1778.6	1777.9	1777.2	1776.6	1775.9	1778.3	1780.6
177.5°	1788.1	1787.3	1786.5	1785.7	1785.0	1784.4	1783.9	1783.4	1782.8	1784.4	1786.1
180°	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8
2.5°	1112.4	1116.3	1118.1	1118.1	1120.2	1119.3	1118.4
5°	1176.3	1183.4	1184.9	1191.6	1196.5	1195.0	1195.7
7.5°	1239.9	1251.3	1262.6	1267.7	1268.6	1271.6	1272.7
10°	1279.0	1288.4	1305.9	1303.3	1316.4	1323.8	1311.5
12.5°	1316.7	1329.3	1341.5	1344.8	1352.2	1354.6	1349.7
15°	1350.7	1357.4	1358.2	1356.3	1358.6	1356.7	1349.6
17.5°	1318.9	1308.0	1285.9	1275.4	1267.1	1254.9	1250.0
20°	1266.3	1234.2	1196.9	1181.9	1164.4	1130.0	1138.2
22.5°	1152.8	1116.2	1078.9	1035.2	1014.4	981.8	979.9
25°	976.2	913.1	843.6	795.0	766.7	734.2	720.0
27.5°	759.0	679.5	622.6	593.8	567.5	541.8	540.7
30°	616.2	556.4	512.4	487.7	471.7	460.8	463.1
32.5°	519.4	478.4	448.7	428.3	416.4	408.2	408.1
35°	424.6	396.6	377.5	369.0	360.4	354.4	354.8
37.5°	363.4	346.5	335.9	326.5	321.1	318.2	316.5
40°	332.0	318.2	310.0	304.4	299.9	295.8	295.0
42.5°	307.2	295.8	287.5	283.1	279.0	276.0	275.3
45°	272.6	263.3	255.8	250.9	249.1	246.5	246.5
47.5°	242.5	233.3	227.5	224.4	221.2	219.5	219.4
50°	222.2	215.1	209.9	208.0	205.4	204.3	203.9
52.5°	204.0	198.7	194.9	193.7	192.5	191.1	191.3
55°	179.2	176.3	174.8	173.6	171.8	169.5	171.0
57.5°	158.4	155.9	151.8	148.3	146.6	145.0	145.6
60°	143.8	138.5	133.3	129.2	128.1	124.7	124.7
62.5°	125.3	117.9	111.5	109.2	108.1	106.5	106.2
65°	96.3	93.4	91.9	90.4	89.6	89.6	88.9
67.5°	79.8	78.6	77.0	76.6	75.9	75.7	75.4
70°	70.6	69.1	68.3	68.0	67.2	67.6	66.5
72.5°	61.6	60.4	60.3	59.3	58.9	58.9	58.1
75°	48.5	48.5	48.2	47.8	47.1	46.7	47.1
77.5°	37.3	37.4	36.7	36.7	36.6	36.7	36.3
80°	29.9	30.2	29.9	29.5	29.1	29.5	29.1
82.5°	23.6	23.1	23.0	22.9	22.9	22.6	22.6
85°	13.4	13.8	13.4	13.1	13.1	13.1	13.4
87.5°	15.2	15.1	15.1	15.1	15.2	15.3	15.0
90°	50.8	50.1	49.9	50.3	50.6	50.9	51.3
92.5°	48.3	48.5	48.6	48.6	48.7	48.8	48.8
95°	96.5	96.5	96.1	95.5	94.8	94.1	93.5
97.5°	162.2	162.2	162.2	162.1	162.0	162.0	161.9
100°	208.0	208.0	207.9	207.5	207.2	206.9	206.5
102.5°	258.3	258.6	258.5	258.2	257.9	257.5	257.2
105°	333.7	334.3	334.7	334.7	334.7	334.7	334.7
107.5°	414.2	414.4	413.8	412.3	410.7	409.2	407.6
110°	468.9	468.9	468.3	467.3	466.3	465.3	464.3



TEST NUMBER: P331802

CATALOG NUMBER: S122RDIW-S485D1440U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	523.1	522.3	521.5	520.8	520.1	519.3	518.6
115°	608.0	607.7	607.0	606.0	605.0	604.0	603.0
117.5°	689.3	688.5	687.5	686.5	685.5	684.5	683.5
120°	744.7	744.7	744.2	743.2	742.2	741.2	740.2
122.5°	800.2	799.4	798.6	797.9	797.2	796.4	795.7
125°	883.4	882.4	881.8	881.4	881.1	880.8	880.4
127.5°	964.2	963.0	961.9	960.8	959.7	958.7	957.6
130°	1020.1	1019.4	1018.4	1017.1	1015.8	1014.4	1013.1
132.5°	1073.2	1071.7	1070.4	1069.4	1068.3	1067.2	1066.1
135°	1153.8	1153.5	1152.8	1151.8	1150.8	1149.8	1148.8
137.5°	1230.0	1229.7	1228.9	1227.6	1226.2	1224.9	1223.5
140°	1281.4	1281.4	1280.8	1279.4	1278.1	1276.7	1275.4
142.5°	1328.1	1328.3	1327.8	1326.5	1325.1	1323.8	1322.4
145°	1398.5	1398.8	1398.3	1397.0	1395.7	1394.3	1393.0
147.5°	1460.6	1461.4	1461.1	1459.8	1458.5	1457.3	1456.0
150°	1500.0	1501.0	1501.0	1500.0	1499.0	1498.0	1497.0
152.5°	1539.4	1540.7	1540.7	1539.4	1538.1	1536.9	1535.6
155°	1589.5	1591.1	1591.5	1590.5	1589.5	1588.5	1587.5
157.5°	1635.9	1638.2	1638.5	1636.9	1635.3	1633.7	1632.1
160°	1662.8	1664.8	1665.2	1663.8	1662.5	1661.2	1659.8
162.5°	1687.8	1690.0	1690.4	1688.8	1687.2	1685.6	1683.9
165°	1719.6	1722.0	1722.3	1720.6	1719.0	1717.3	1715.6
167.5°	1745.9	1748.2	1748.5	1746.8	1745.0	1743.3	1741.5
170°	1760.3	1762.7	1762.8	1760.8	1758.8	1756.8	1754.8
172.5°	1771.2	1773.5	1773.7	1771.7	1769.7	1767.7	1765.7
175°	1782.9	1785.3	1785.5	1783.4	1781.4	1779.4	1777.4
177.5°	1787.7	1789.3	1789.3	1787.7	1786.1	1784.4	1782.8
180°	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5

(END OF REPORT)