

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: P331802-935

Luminaire Tested: **S122RDIW-S485D1440U935-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331802-935  
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-S485D1440U935-4F0-1E-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**

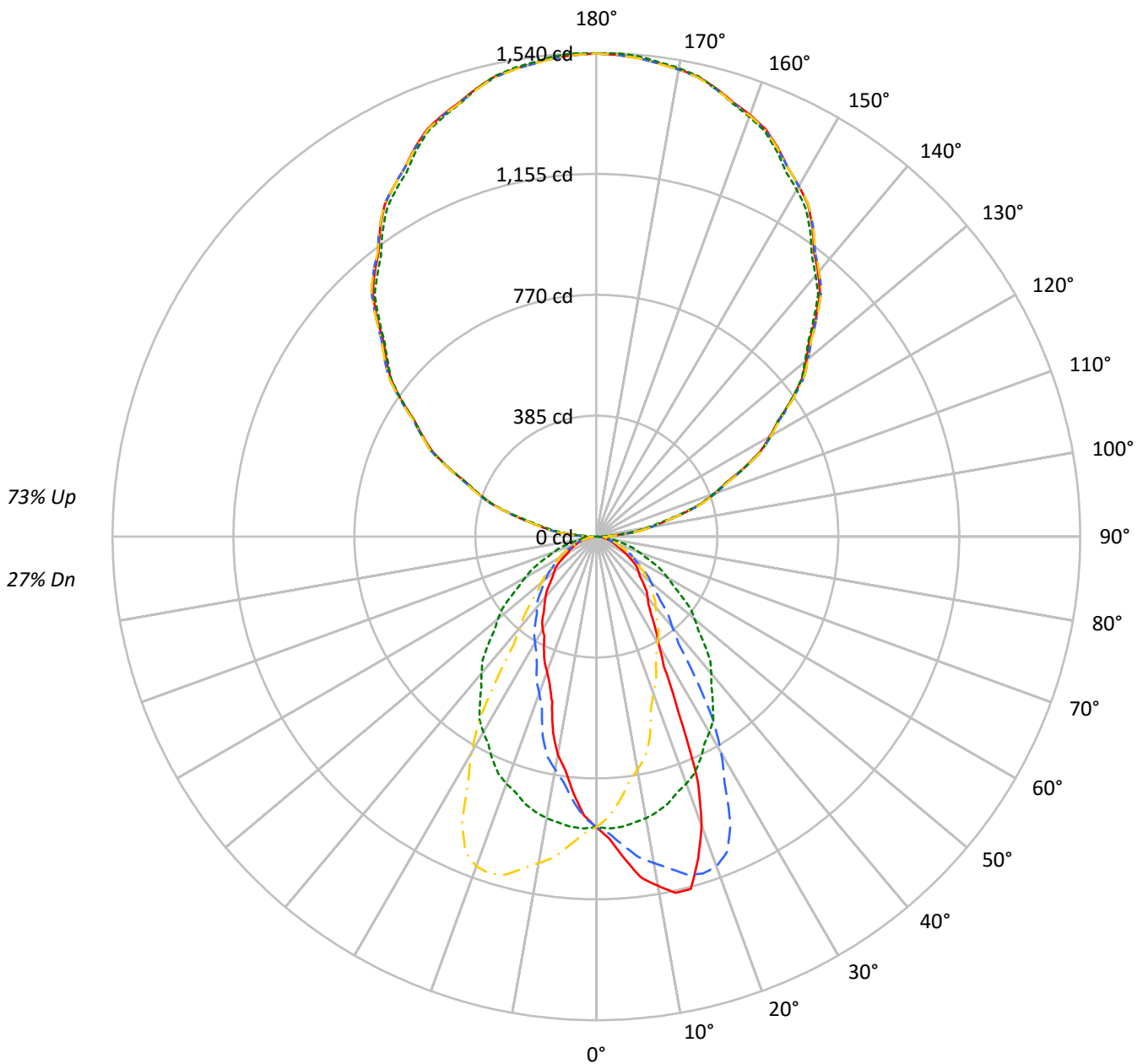
Lumens per Lamp: N/A  
Luminaire Lumens: 5906.3 lumens  
Efficiency: N/A  
Efficacy: 97.5 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 60.6  
Input Voltage (V): 120  
Input Current (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



TEST NUMBER: P331802-935

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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°	14941	14941	14941	14941
5°	16686	15034	13331	15034
10°	18513	14929	11555	14929
15°	19423	14710	9105	14710
20°	16838	14385	7878	14385
25°	11043	13942	7035	13942
30°	7433	13403	6367	13403
35°	6022	12727	5742	12727
40°	5354	11989	5313	11989
45°	4845	11125	4743	11125
50°	4411	10263	4393	10263
55°	4144	9315	4090	9315
60°	3468	8441	3426	8441
65°	2923	7664	3316	7664
70°	2705	6845	3125	6845
75°	2533	5958	2888	5958
80°	2334	4900	2566	4900
85°	2130	3872	2260	3872



TEST NUMBER: P331802-935

CATALOG NUMBER: S122RDIW-S485D1440U935-4F0-1E-UDD-A1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.7	1.5
10°-20°	244.4	4.1
20°-30°	315.0	5.3
30°-40°	299.3	5.1
40°-50°	256.4	4.3
50°-60°	195.3	3.3
60°-70°	123.4	2.1
70°-80°	61.6	1.0
80°-90°	22.2	0.4
90°-100°	97.5	1.7
100°-110°	302.7	5.1
110°-120°	517.4	8.8
120°-130°	680.4	11.5
130°-140°	763.7	12.9
140°-150°	748.8	12.7
150°-160°	628.1	10.6
160°-170°	416.6	7.1
170°-180°	145.6	2.5
0°-30°	647.1	11.0
0°-40°	946.4	16.0
0°-60°	1398.1	23.7
0°-90°	1605.4	27.2
90°-120°	917.6	15.5
90°-150°	3110.6	52.7
90°-180°	4301.0	72.8
0°-180°	5906.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	925	925	925	925	925	
5°	1030	928	822	928	1030	102
15°	1162	880	545	880	1162	313
25°	620	783	395	783	620	294
35°	306	646	291	646	306	195
45°	212	487	208	487	212	164
55°	147	331	145	331	147	129
65°	76	201	87	201	76	78
75°	41	96	46	96	41	43
85°	12	21	12	21	12	14
90°	44	1	44	1	44	20
95°	80	68	80	68	80	90
105°	288	279	288	279	288	303
115°	519	519	519	519	519	513
125°	758	755	758	755	758	676
135°	989	977	989	977	989	761
145°	1199	1186	1199	1186	1199	749
155°	1367	1356	1367	1356	1367	629
165°	1477	1476	1477	1476	1477	417
175°	1530	1536	1530	1536	1530	145
180°	1538	1538	1538	1538	1538	



TEST NUMBER: P331802-935

CATALOG NUMBER: S122RDIW-S485D1440U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4
2.5°	962.9	963.7	964.5	962.7	962.7	961.1	957.8	955.2	948.0	946.9	946.9
5°	1029.5	1028.9	1030.2	1026.0	1020.2	1018.9	1012.8	1004.8	996.4	987.1	985.2
7.5°	1095.8	1094.8	1092.3	1091.5	1087.1	1077.4	1067.6	1057.0	1043.2	1029.6	1022.8
10°	1129.2	1139.8	1133.4	1122.1	1124.4	1109.3	1101.2	1087.4	1075.8	1055.6	1051.1
12.5°	1162.1	1166.3	1164.2	1157.9	1155.0	1144.5	1133.7	1121.6	1100.3	1082.1	1066.3
15°	1162.0	1168.1	1169.8	1167.8	1169.4	1168.7	1163.0	1153.0	1134.4	1114.4	1097.1
17.5°	1076.2	1080.5	1091.0	1098.1	1107.2	1126.2	1135.6	1139.3	1136.4	1125.1	1112.8
20°	980.0	972.9	1002.5	1017.6	1030.5	1062.6	1090.3	1100.9	1117.9	1117.7	1114.4
22.5°	843.7	845.3	873.4	891.3	928.9	961.0	992.6	1032.5	1065.5	1087.3	1100.0
25°	619.9	632.1	660.1	684.5	726.3	786.2	840.5	903.5	962.9	1010.0	1054.6
27.5°	465.5	466.5	488.6	511.3	536.1	585.0	653.5	728.8	813.6	883.5	964.0
30°	398.7	396.7	406.1	419.9	441.2	479.1	530.5	604.5	689.1	794.5	888.4
32.5°	351.4	351.5	358.5	368.8	386.3	411.9	447.2	507.2	587.2	690.9	800.9
35°	305.5	305.1	310.3	317.7	325.0	341.5	365.6	397.1	452.1	548.9	661.4
37.5°	272.5	274.0	276.5	281.1	289.2	298.3	312.9	334.0	373.2	430.4	525.0
40°	254.0	254.7	258.2	262.1	266.9	274.0	285.9	302.9	331.5	377.1	446.3
42.5°	237.0	237.6	240.2	243.7	247.5	254.7	264.5	279.2	302.5	338.0	395.1
45°	212.2	212.2	214.5	216.0	220.2	226.7	234.7	246.9	263.0	289.4	327.4
47.5°	188.9	189.0	190.5	193.2	195.9	200.9	208.8	218.8	230.5	250.9	283.3
50°	175.6	175.9	176.8	179.1	180.7	185.2	191.3	200.0	212.2	228.0	254.9
52.5°	164.7	164.5	165.7	166.8	167.8	171.1	175.6	183.3	194.2	207.9	230.3
55°	147.2	145.9	147.9	149.5	150.5	151.8	154.3	159.2	168.5	180.0	196.7
57.5°	125.4	124.8	126.2	127.7	130.7	134.2	136.4	139.5	144.3	152.6	169.2
60°	107.4	107.4	110.3	111.2	114.8	119.2	123.8	126.4	131.2	136.6	148.9
62.5°	91.4	91.7	93.1	94.0	96.0	101.5	107.9	113.5	118.0	123.3	131.4
65°	76.5	77.1	77.1	77.8	79.1	80.4	82.9	87.5	95.5	102.9	109.0
67.5°	64.9	65.2	65.3	66.0	66.3	67.7	68.7	70.8	72.6	79.6	87.2
70°	57.3	58.2	57.9	58.5	58.8	59.5	60.8	61.7	64.7	66.2	70.8
72.5°	50.0	50.7	50.7	51.1	51.9	52.0	53.0	54.0	55.9	57.3	59.7
75°	40.6	40.2	40.6	41.2	41.5	41.8	41.8	43.0	44.1	45.4	46.9
77.5°	31.3	31.6	31.5	31.6	31.6	32.2	32.1	32.7	33.7	34.4	35.1
80°	25.1	25.4	25.1	25.4	25.7	26.0	25.7	26.0	27.0	27.6	27.6
82.5°	19.5	19.5	19.7	19.7	19.8	19.9	20.3	20.4	21.1	20.9	21.2
85°	11.5	11.3	11.3	11.3	11.5	11.9	11.5	11.5	11.9	11.9	11.9
87.5°	12.9	13.2	13.1	13.0	13.0	13.0	13.1	13.5	13.3	13.7	12.2
90°	44.2	43.8	43.6	43.3	43.0	43.1	43.7	44.3	44.9	45.5	39.1
92.5°	42.0	42.0	41.9	41.8	41.8	41.8	41.6	41.5	41.4	41.2	39.8
95°	80.5	81.0	81.6	82.2	82.7	83.1	83.1	83.1	83.1	83.1	82.5
97.5°	139.4	139.5	139.5	139.6	139.7	139.7	139.7	139.7	139.7	139.7	138.5
100°	177.8	178.1	178.4	178.7	179.0	179.1	179.1	179.1	179.1	179.1	178.2
102.5°	221.4	221.7	222.1	222.3	222.6	222.7	222.4	222.1	222.0	221.7	220.6
105°	288.2	288.2	288.2	288.2	288.2	287.8	287.3	286.7	286.1	285.6	285.0
107.5°	350.9	352.3	353.6	355.0	356.3	356.8	356.6	356.4	356.1	355.9	355.9
110°	399.8	400.6	401.5	402.3	403.2	403.7	403.7	403.7	403.7	403.7	403.7



TEST NUMBER: P331802-935

CATALOG NUMBER: S122RDIW-S485D1440U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	446.5	447.1	447.8	448.4	449.0	449.7	450.4	451.1	451.8	452.5	452.7
115°	519.2	520.0	520.9	521.8	522.6	523.2	523.5	523.8	524.1	524.4	525.0
117.5°	588.5	589.4	590.2	591.1	591.9	592.8	593.5	594.2	594.9	595.6	597.1
120°	637.3	638.2	639.0	639.9	640.8	641.2	641.2	641.2	641.2	641.2	643.5
122.5°	685.1	685.7	686.4	687.0	687.6	688.3	689.0	689.7	690.3	691.0	692.7
125°	758.0	758.4	758.6	758.9	759.2	759.7	760.6	761.5	762.3	763.2	764.1
127.5°	824.5	825.4	826.3	827.2	828.2	829.1	830.2	831.2	832.2	833.4	834.4
130°	872.3	873.4	874.6	875.7	876.8	877.7	878.3	878.9	879.5	880.0	880.6
132.5°	917.9	918.9	919.8	920.8	921.6	922.7	924.0	925.3	926.5	927.8	927.7
135°	989.1	990.0	990.8	991.7	992.6	993.2	993.4	993.7	994.0	994.3	993.7
137.5°	1053.4	1054.6	1055.8	1057.0	1058.1	1058.8	1059.0	1059.2	1059.5	1059.7	1058.9
140°	1098.1	1099.2	1100.4	1101.6	1102.8	1103.3	1103.3	1103.3	1103.3	1103.3	1101.9
142.5°	1138.6	1139.8	1140.9	1142.1	1143.2	1143.7	1143.5	1143.2	1143.0	1142.8	1141.8
145°	1199.4	1200.5	1201.7	1202.8	1203.9	1204.4	1204.1	1203.9	1203.5	1203.2	1201.5
147.5°	1253.6	1254.7	1255.8	1256.9	1258.0	1258.3	1257.6	1257.0	1256.4	1255.7	1254.6
150°	1288.9	1289.8	1290.6	1291.5	1292.4	1292.4	1291.5	1290.6	1289.8	1288.9	1287.8
152.5°	1322.2	1323.3	1324.3	1325.4	1326.5	1326.5	1325.4	1324.3	1323.3	1322.2	1320.8
155°	1366.8	1367.7	1368.6	1369.4	1370.3	1369.9	1368.6	1367.1	1365.6	1364.2	1363.3
157.5°	1405.2	1406.6	1408.0	1409.4	1410.7	1410.5	1408.5	1406.5	1404.5	1402.7	1402.1
160°	1429.1	1430.3	1431.4	1432.5	1433.7	1433.4	1431.7	1429.9	1428.2	1426.5	1426.2
162.5°	1449.8	1451.3	1452.7	1454.1	1455.4	1455.1	1453.2	1451.2	1449.2	1447.3	1447.0
165°	1477.1	1478.6	1480.1	1481.4	1482.9	1482.6	1480.6	1478.6	1476.5	1474.5	1474.5
167.5°	1499.4	1501.0	1502.4	1504.0	1505.5	1505.2	1503.2	1501.2	1499.2	1497.1	1497.2
170°	1510.9	1512.6	1514.3	1516.0	1517.8	1517.7	1515.6	1513.6	1511.6	1509.6	1509.8
172.5°	1520.3	1522.0	1523.7	1525.4	1527.2	1527.0	1525.0	1522.9	1521.0	1518.9	1519.2
175°	1530.3	1532.1	1533.8	1535.5	1537.3	1537.1	1535.1	1533.1	1531.1	1529.0	1529.7
177.5°	1535.0	1536.4	1537.8	1539.2	1540.6	1540.6	1539.2	1537.8	1536.4	1535.0	1535.5
180°	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2



TEST NUMBER: P331802-935

CATALOG NUMBER: S122RDIW-S485D1440U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4
2.5°	947.4	945.5	943.7	939.0	936.7	931.5	930.7	930.5	923.9	917.4	915.6
5°	980.0	974.9	967.2	958.1	948.8	939.2	932.7	927.6	914.7	902.5	895.4
7.5°	1012.8	1001.8	988.4	971.4	957.2	941.2	929.4	918.8	900.5	883.0	871.2
10°	1037.2	1019.3	1001.6	978.1	959.8	941.8	925.1	910.6	890.0	866.9	850.4
12.5°	1052.4	1032.6	1008.2	985.3	961.6	938.7	916.3	897.7	873.6	849.6	830.1
15°	1073.0	1051.7	1022.2	989.4	958.8	928.9	903.2	880.0	848.5	819.9	796.1
17.5°	1089.8	1060.5	1028.7	990.8	955.5	917.5	884.3	854.7	819.7	785.1	757.2
20°	1095.1	1066.2	1029.5	991.6	949.8	905.1	869.4	837.2	799.6	762.0	729.9
22.5°	1091.7	1069.3	1028.5	983.1	940.3	893.5	853.3	815.9	774.2	735.8	698.5
25°	1069.1	1061.4	1022.8	973.3	924.4	870.0	823.5	782.6	735.0	693.9	653.3
27.5°	1016.2	1032.9	1008.9	956.1	901.8	843.5	791.2	744.7	695.3	648.9	608.6
30°	965.3	1003.5	993.2	944.3	883.6	826.3	767.5	718.9	666.2	618.6	578.8
32.5°	895.5	958.7	968.8	927.9	865.0	802.1	740.5	692.2	637.1	586.9	548.1
35°	784.5	879.1	922.5	896.4	833.4	765.6	701.9	645.7	590.3	540.8	502.2
37.5°	652.1	780.8	853.3	855.1	797.2	726.7	657.4	601.5	544.8	496.3	454.5
40°	566.2	705.8	800.0	820.9	772.0	695.8	625.7	568.8	513.5	465.9	418.0
42.5°	489.0	628.1	743.9	780.2	741.4	665.7	595.4	535.9	482.1	437.0	388.1
45°	395.5	517.0	644.6	709.6	688.1	617.9	543.7	487.2	436.6	397.7	350.8
47.5°	333.6	419.3	542.8	630.7	630.3	566.3	493.3	439.0	392.2	355.8	317.7
50°	298.3	373.0	477.5	577.1	585.5	531.8	462.4	408.6	365.0	326.7	296.1
52.5°	266.7	328.2	422.1	517.7	541.5	495.0	427.7	378.1	335.6	300.4	274.2
55°	225.4	272.9	344.4	433.8	469.8	437.0	377.1	330.9	296.4	266.9	244.4
57.5°	190.6	226.4	283.6	355.6	397.5	376.9	327.6	290.0	260.5	233.8	216.0
60°	168.8	198.0	246.6	306.8	353.0	338.5	296.4	261.4	236.3	213.2	196.5
62.5°	148.3	173.4	215.0	263.8	306.3	300.2	265.9	236.4	214.5	193.4	179.3
65°	119.2	137.6	170.0	208.4	242.5	245.3	220.6	200.6	181.0	164.3	151.8
67.5°	95.0	106.9	129.8	162.0	187.6	196.7	181.6	166.3	150.8	137.8	127.0
70°	80.1	89.7	106.4	132.5	155.9	165.6	156.9	145.0	131.5	120.9	111.6
72.5°	64.9	74.3	86.6	105.7	125.9	136.3	133.3	124.7	113.7	105.0	96.2
75°	48.9	51.7	60.1	73.0	88.8	97.7	100.0	95.5	86.8	80.1	74.9
77.5°	36.2	37.9	41.8	48.6	58.9	66.9	70.3	69.7	63.7	59.8	55.0
80°	28.9	29.9	31.9	34.7	42.4	50.5	52.7	52.7	48.6	46.9	42.1
82.5°	22.0	22.7	23.8	25.5	29.1	36.1	38.6	39.1	36.4	34.4	30.6
85°	12.6	12.2	12.8	13.9	14.5	16.4	20.2	20.9	20.2	17.7	16.7
87.5°	10.9	9.9	8.6	7.4	7.0	6.5	7.1	7.7	7.4	7.3	7.5
90°	32.7	26.4	20.1	15.2	11.7	8.2	4.7	1.3	4.7	8.2	11.7
92.5°	38.3	36.8	35.3	33.2	30.7	28.2	25.7	23.1	25.7	28.2	30.7
95°	81.9	81.4	80.8	79.0	76.1	73.3	70.3	67.5	70.3	73.3	76.1
97.5°	137.5	136.4	135.3	133.5	131.0	128.4	125.9	123.3	125.9	128.4	131.0
100°	177.4	176.5	175.6	174.1	171.8	169.4	167.1	164.9	167.1	169.4	171.8
102.5°	219.5	218.4	217.3	215.9	214.0	212.2	210.3	208.4	210.3	212.2	214.0
105°	284.4	283.9	283.3	282.5	281.6	280.8	279.9	279.1	279.9	280.8	281.6
107.5°	355.9	355.9	355.9	355.2	354.0	352.8	351.5	350.2	351.5	352.8	354.0
110°	403.7	403.7	403.7	402.8	401.1	399.3	397.6	395.9	397.6	399.3	401.1





TEST NUMBER: P331802-935

CATALOG NUMBER: S122RDIW-S485D1440U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	453.0	453.1	453.4	452.6	450.9	449.2	447.5	445.7	447.5	449.2	450.9
115°	525.6	526.2	526.7	526.2	524.4	522.6	520.9	519.2	520.9	522.6	524.4
117.5°	598.7	600.4	602.0	601.7	599.3	597.0	594.7	592.5	594.7	597.0	599.3
120°	645.8	648.2	650.5	650.5	648.2	645.8	643.5	641.2	643.5	645.8	648.2
122.5°	694.3	695.9	697.5	697.0	694.1	691.4	688.6	685.9	688.6	691.4	694.1
125°	765.0	765.9	766.7	765.9	763.2	760.6	758.0	755.4	758.0	760.6	763.2
127.5°	835.4	836.5	837.5	836.4	833.1	829.7	826.5	823.2	826.5	829.7	833.1
130°	881.2	881.8	882.4	880.8	877.0	873.3	869.5	865.7	869.5	873.3	877.0
132.5°	927.6	927.5	927.4	925.7	922.7	919.6	916.6	913.5	916.6	919.6	922.7
135°	993.2	992.6	992.0	990.1	986.9	983.8	980.6	977.4	980.6	983.8	986.9
137.5°	1058.2	1057.5	1056.7	1055.0	1052.4	1049.8	1047.2	1044.7	1047.2	1049.8	1052.4
140°	1100.4	1099.0	1097.5	1095.5	1093.0	1090.4	1087.7	1085.1	1087.7	1090.4	1093.0
142.5°	1140.8	1139.8	1138.8	1137.0	1134.5	1131.9	1129.3	1126.7	1129.3	1131.9	1134.5
145°	1199.8	1198.1	1196.4	1194.5	1192.4	1190.4	1188.4	1186.4	1188.4	1190.4	1192.4
147.5°	1253.4	1252.2	1251.1	1249.3	1246.9	1244.4	1242.0	1239.6	1242.0	1244.4	1246.9
150°	1286.6	1285.5	1284.3	1282.9	1281.2	1279.4	1277.6	1275.9	1277.6	1279.4	1281.2
152.5°	1319.4	1318.0	1316.6	1315.1	1313.3	1311.6	1309.8	1308.1	1309.8	1311.6	1313.3
155°	1362.4	1361.6	1360.7	1359.9	1359.0	1358.1	1357.3	1356.4	1357.3	1358.1	1359.0
157.5°	1401.6	1401.1	1400.6	1400.0	1399.5	1398.9	1398.3	1397.7	1398.3	1398.9	1399.5
160°	1425.9	1425.6	1425.4	1425.0	1424.4	1423.7	1423.2	1422.6	1423.2	1423.7	1424.4
162.5°	1446.7	1446.4	1446.1	1446.0	1445.8	1445.7	1445.6	1445.4	1445.6	1445.7	1445.8
165°	1474.5	1474.5	1474.5	1474.7	1475.0	1475.2	1475.6	1475.8	1475.6	1475.2	1475.0
167.5°	1497.3	1497.3	1497.4	1497.8	1498.7	1499.5	1500.4	1501.2	1500.4	1499.5	1498.7
170°	1510.2	1510.5	1510.7	1511.3	1512.2	1513.0	1513.9	1514.8	1513.9	1513.0	1512.2
172.5°	1519.5	1519.8	1520.1	1520.7	1521.6	1522.4	1523.3	1524.1	1523.3	1522.4	1521.6
175°	1530.2	1530.8	1531.4	1532.1	1532.9	1533.8	1534.6	1535.5	1534.6	1533.8	1532.9
177.5°	1535.9	1536.4	1536.9	1537.5	1538.2	1538.9	1539.6	1540.2	1539.6	1538.9	1538.2
180°	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2



TEST NUMBER: P331802-935

CATALOG NUMBER: S122RDIW-S485D1440U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4
2.5°	912.2	910.4	907.1	902.0	898.9	893.5	889.8	891.9	892.4	891.9	891.4
5°	887.8	881.0	871.7	862.6	854.3	845.3	840.2	837.9	833.4	830.9	829.6
7.5°	858.1	846.4	833.3	817.6	804.3	790.3	783.2	779.6	770.4	765.4	761.0
10°	835.9	817.6	804.4	783.9	771.4	753.0	740.5	740.8	728.2	721.2	716.0
12.5°	811.6	791.4	769.5	751.0	733.6	718.8	703.7	697.6	684.2	677.4	663.6
15°	771.0	747.5	724.4	699.3	681.7	658.8	637.0	610.3	588.8	570.1	564.9
17.5°	726.8	697.8	674.5	645.1	614.8	576.4	551.0	535.5	522.5	512.7	505.4
20°	696.5	666.8	642.1	597.7	556.9	530.8	512.2	500.3	486.8	476.2	470.4
22.5°	664.5	633.7	599.9	550.4	518.6	497.7	481.0	467.4	458.2	450.0	444.7
25°	619.2	585.5	529.9	495.8	470.1	448.2	436.6	428.3	418.6	407.3	402.3
27.5°	571.4	517.7	477.8	452.5	427.9	413.7	403.3	390.8	382.2	377.1	371.8
30°	535.6	482.0	450.8	423.1	405.8	390.0	377.8	370.7	362.4	353.7	350.2
32.5°	495.8	452.9	423.0	400.0	382.4	368.9	359.3	347.8	341.8	336.5	329.1
35°	446.3	413.8	386.5	367.8	351.1	340.2	328.9	322.2	311.3	306.8	303.8
37.5°	404.3	376.2	355.8	336.1	322.9	310.8	303.9	293.2	288.4	282.1	276.0
40°	380.6	353.0	333.5	317.4	302.6	293.5	284.9	276.2	269.1	266.2	258.8
42.5°	356.5	334.0	314.4	296.8	286.9	277.3	266.4	260.0	252.6	248.0	243.4
45°	323.1	303.2	286.5	272.0	261.1	251.2	244.0	233.4	229.3	219.9	216.0
47.5°	293.8	275.3	259.3	245.6	234.9	228.4	218.1	209.7	203.1	197.3	192.4
50°	272.9	257.5	242.1	229.9	220.2	210.9	200.4	196.1	185.8	183.0	180.0
52.5°	253.9	239.3	225.2	213.2	203.5	194.5	185.1	179.7	172.7	169.8	167.7
55°	227.3	213.2	199.7	189.1	179.4	170.0	164.3	157.6	154.3	152.1	149.5
57.5°	200.5	187.9	177.5	166.8	157.0	149.6	142.9	138.9	135.5	132.6	129.5
60°	183.6	171.3	162.0	152.1	142.2	136.0	130.9	126.1	122.2	117.7	116.4
62.5°	165.6	154.9	146.4	136.6	127.9	122.3	117.5	113.0	108.3	101.8	100.0
65°	140.9	132.5	123.5	115.5	107.7	102.3	95.1	90.1	88.1	87.5	87.1
67.5°	118.5	110.6	102.8	94.6	87.6	82.5	78.9	78.1	76.8	76.4	75.5
70°	103.5	96.2	88.4	80.7	74.0	73.0	71.7	70.4	68.8	68.2	67.5
72.5°	90.1	82.5	74.8	68.6	65.7	64.5	63.2	61.9	60.9	60.2	59.8
75°	69.1	62.1	56.9	54.7	53.0	52.1	50.2	49.2	48.6	47.6	47.3
77.5°	49.8	45.8	43.4	42.0	40.3	39.3	38.2	37.2	36.5	36.3	35.8
80°	38.0	36.0	34.4	32.5	31.9	30.6	30.2	29.3	29.6	28.6	28.6
82.5°	29.4	27.0	25.7	24.8	24.1	23.1	22.7	22.3	22.4	21.7	21.7
85°	15.2	14.5	13.9	13.2	13.2	12.2	12.6	12.2	12.2	11.5	11.3
87.5°	7.9	8.6	9.4	10.7	12.0	12.9	12.8	12.5	12.3	12.2	12.0
90°	15.2	20.1	26.4	32.7	39.1	45.5	44.9	44.3	43.7	43.1	43.0
92.5°	33.2	35.3	36.8	38.3	39.8	41.2	41.4	41.5	41.6	41.8	41.8
95°	79.0	80.8	81.4	81.9	82.5	83.1	83.1	83.1	83.1	83.1	82.7
97.5°	133.5	135.3	136.4	137.5	138.5	139.7	139.7	139.7	139.7	139.7	139.7
100°	174.1	175.6	176.5	177.4	178.2	179.1	179.1	179.1	179.1	179.1	179.0
102.5°	215.9	217.3	218.4	219.5	220.6	221.7	222.0	222.1	222.4	222.7	222.6
105°	282.5	283.3	283.9	284.4	285.0	285.6	286.1	286.7	287.3	287.8	288.2
107.5°	355.2	355.9	355.9	355.9	355.9	355.9	356.1	356.4	356.6	356.8	356.3
110°	402.8	403.7	403.7	403.7	403.7	403.7	403.7	403.7	403.7	403.7	403.2



TEST NUMBER: P331802-935

CATALOG NUMBER: S122RDIW-S485D1440U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	452.6	453.4	453.1	453.0	452.7	452.5	451.8	451.1	450.4	449.7	449.0
115°	526.2	526.7	526.2	525.6	525.0	524.4	524.1	523.8	523.5	523.2	522.6
117.5°	601.7	602.0	600.4	598.7	597.1	595.6	594.9	594.2	593.5	592.8	591.9
120°	650.5	650.5	648.2	645.8	643.5	641.2	641.2	641.2	641.2	641.2	640.8
122.5°	697.0	697.5	695.9	694.3	692.7	691.0	690.3	689.7	689.0	688.3	687.6
125°	765.9	766.7	765.9	765.0	764.1	763.2	762.3	761.5	760.6	759.7	759.2
127.5°	836.4	837.5	836.5	835.4	834.4	833.4	832.2	831.2	830.2	829.1	828.2
130°	880.8	882.4	881.8	881.2	880.6	880.0	879.5	878.9	878.3	877.7	876.8
132.5°	925.7	927.4	927.5	927.6	927.7	927.8	926.5	925.3	924.0	922.7	921.6
135°	990.1	992.0	992.6	993.2	993.7	994.3	994.0	993.7	993.4	993.2	992.6
137.5°	1055.0	1056.7	1057.5	1058.2	1058.9	1059.7	1059.5	1059.2	1059.0	1058.8	1058.1
140°	1095.5	1097.5	1099.0	1100.4	1101.9	1103.3	1103.3	1103.3	1103.3	1103.3	1102.8
142.5°	1137.0	1138.8	1139.8	1140.8	1141.8	1142.8	1143.0	1143.2	1143.5	1143.7	1143.2
145°	1194.5	1196.4	1198.1	1199.8	1201.5	1203.2	1203.5	1203.9	1204.1	1204.4	1203.9
147.5°	1249.3	1251.1	1252.2	1253.4	1254.6	1255.7	1256.4	1257.0	1257.6	1258.3	1258.0
150°	1282.9	1284.3	1285.5	1286.6	1287.8	1288.9	1289.8	1290.6	1291.5	1292.4	1292.4
152.5°	1315.1	1316.6	1318.0	1319.4	1320.8	1322.2	1323.3	1324.3	1325.4	1326.5	1326.5
155°	1359.9	1360.7	1361.6	1362.4	1363.3	1364.2	1365.6	1367.1	1368.6	1369.9	1370.3
157.5°	1400.0	1400.6	1401.1	1401.6	1402.1	1402.7	1404.5	1406.5	1408.5	1410.5	1410.7
160°	1425.0	1425.4	1425.6	1425.9	1426.2	1426.5	1428.2	1429.9	1431.7	1433.4	1433.7
162.5°	1446.0	1446.1	1446.4	1446.7	1447.0	1447.3	1449.2	1451.2	1453.2	1455.1	1455.4
165°	1474.7	1474.5	1474.5	1474.5	1474.5	1474.5	1476.5	1478.6	1480.6	1482.6	1482.9
167.5°	1497.8	1497.4	1497.3	1497.3	1497.2	1497.1	1499.2	1501.2	1503.2	1505.2	1505.5
170°	1511.3	1510.7	1510.5	1510.2	1509.8	1509.6	1511.6	1513.6	1515.6	1517.7	1517.8
172.5°	1520.7	1520.1	1519.8	1519.5	1519.2	1518.9	1521.0	1522.9	1525.0	1527.0	1527.2
175°	1532.1	1531.4	1530.8	1530.2	1529.7	1529.0	1531.1	1533.1	1535.1	1537.1	1537.3
177.5°	1537.5	1536.9	1536.4	1535.9	1535.5	1535.0	1536.4	1537.8	1539.2	1540.6	1540.6
180°	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2



TEST NUMBER: P331802-935

CATALOG NUMBER: S122RDIW-S485D1440U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4
2.5°	888.6	889.1	888.3	888.8	888.3	889.1	888.6	891.4	891.9	892.4	891.9
5°	827.9	824.1	823.5	822.5	823.5	824.1	827.9	829.6	830.9	833.4	837.9
7.5°	755.5	754.9	753.4	751.1	753.4	754.9	755.5	761.0	765.4	770.4	779.6
10°	708.9	707.4	707.1	704.8	707.1	707.4	708.9	716.0	721.2	728.2	740.8
12.5°	654.4	644.1	643.0	637.4	643.0	644.1	654.4	663.6	677.4	684.2	697.6
15°	557.2	555.3	548.9	544.7	548.9	555.3	557.2	564.9	570.1	588.8	610.3
17.5°	501.6	495.3	493.4	492.5	493.4	495.3	501.6	505.4	512.7	522.5	535.5
20°	465.9	460.1	459.2	458.5	459.2	460.1	465.9	470.4	476.2	486.8	500.3
22.5°	441.2	435.1	432.7	430.8	432.7	435.1	441.2	444.7	450.0	458.2	467.4
25°	399.0	396.7	395.5	394.9	395.5	396.7	399.0	402.3	407.3	418.6	428.3
27.5°	366.0	361.1	360.1	358.4	360.1	361.1	366.0	371.8	377.1	382.2	390.8
30°	347.2	345.6	343.4	341.5	343.4	345.6	347.2	350.2	353.7	362.4	370.7
32.5°	325.1	323.8	321.8	320.9	321.8	323.8	325.1	329.1	336.5	341.8	347.8
35°	300.7	296.1	294.2	291.3	294.2	296.1	300.7	303.8	306.8	311.3	322.2
37.5°	274.7	272.3	269.7	270.6	269.7	272.3	274.7	276.0	282.1	288.4	293.2
40°	254.7	253.0	252.4	252.1	252.4	253.0	254.7	258.8	266.2	269.1	276.2
42.5°	238.7	234.3	232.6	232.6	232.6	234.3	238.7	243.4	248.0	252.6	260.0
45°	214.5	210.3	207.4	207.7	207.4	210.3	214.5	216.0	219.9	229.3	233.4
47.5°	189.7	189.5	187.7	188.3	187.7	189.5	189.7	192.4	197.3	203.1	209.7
50°	177.8	175.9	174.6	174.9	174.6	175.9	177.8	180.0	183.0	185.8	196.1
52.5°	166.5	164.8	163.8	165.1	163.8	164.8	166.5	167.7	169.8	172.7	179.7
55°	147.9	145.9	145.7	145.3	145.7	145.9	147.9	149.5	152.1	154.3	157.6
57.5°	127.2	125.9	123.9	123.1	123.9	125.9	127.2	129.5	132.6	135.5	138.9
60°	112.2	109.6	106.4	106.1	106.4	109.6	112.2	116.4	117.7	122.2	126.1
62.5°	98.6	98.1	97.5	97.4	97.5	98.1	98.6	100.0	101.8	108.3	113.0
65°	86.5	86.2	86.5	86.8	86.5	86.2	86.5	87.1	87.5	88.1	90.1
67.5°	75.3	74.8	74.2	74.5	74.2	74.8	75.3	75.5	76.4	76.8	78.1
70°	66.9	66.6	66.2	66.2	66.2	66.6	66.9	67.5	68.2	68.8	70.4
72.5°	58.6	58.5	58.3	58.0	58.3	58.5	58.6	59.8	60.2	60.9	61.9
75°	46.9	46.3	46.3	46.3	46.3	46.3	46.9	47.3	47.6	48.6	49.2
77.5°	35.7	35.5	35.1	34.9	35.1	35.5	35.7	35.8	36.3	36.5	37.2
80°	28.3	28.0	27.6	27.6	27.6	28.0	28.3	28.6	28.6	29.6	29.3
82.5°	21.6	21.3	21.2	20.9	21.2	21.3	21.6	21.7	21.7	22.4	22.3
85°	11.5	11.9	11.5	12.2	11.5	11.9	11.5	11.3	11.5	12.2	12.2
87.5°	12.0	11.8	12.1	11.9	12.1	11.8	12.0	12.0	12.2	12.3	12.5
90°	43.3	43.6	43.8	44.2	43.8	43.6	43.3	43.0	43.1	43.7	44.3
92.5°	41.8	41.9	42.0	42.0	42.0	41.9	41.8	41.8	41.8	41.6	41.5
95°	82.2	81.6	81.0	80.5	81.0	81.6	82.2	82.7	83.1	83.1	83.1
97.5°	139.6	139.5	139.5	139.4	139.5	139.5	139.6	139.7	139.7	139.7	139.7
100°	178.7	178.4	178.1	177.8	178.1	178.4	178.7	179.0	179.1	179.1	179.1
102.5°	222.3	222.1	221.7	221.4	221.7	222.1	222.3	222.6	222.7	222.4	222.1
105°	288.2	288.2	288.2	288.2	288.2	288.2	288.2	288.2	287.8	287.3	286.7
107.5°	355.0	353.6	352.3	350.9	352.3	353.6	355.0	356.3	356.8	356.6	356.4
110°	402.3	401.5	400.6	399.8	400.6	401.5	402.3	403.2	403.7	403.7	403.7



TEST NUMBER: P331802-935

CATALOG NUMBER: S122RDIW-S485D1440U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	448.4	447.8	447.1	446.5	447.1	447.8	448.4	449.0	449.7	450.4	451.1
115°	521.8	520.9	520.0	519.2	520.0	520.9	521.8	522.6	523.2	523.5	523.8
117.5°	591.1	590.2	589.4	588.5	589.4	590.2	591.1	591.9	592.8	593.5	594.2
120°	639.9	639.0	638.2	637.3	638.2	639.0	639.9	640.8	641.2	641.2	641.2
122.5°	687.0	686.4	685.7	685.1	685.7	686.4	687.0	687.6	688.3	689.0	689.7
125°	758.9	758.6	758.4	758.0	758.4	758.6	758.9	759.2	759.7	760.6	761.5
127.5°	827.2	826.3	825.4	824.5	825.4	826.3	827.2	828.2	829.1	830.2	831.2
130°	875.7	874.6	873.4	872.3	873.4	874.6	875.7	876.8	877.7	878.3	878.9
132.5°	920.8	919.8	918.9	917.9	918.9	919.8	920.8	921.6	922.7	924.0	925.3
135°	991.7	990.8	990.0	989.1	990.0	990.8	991.7	992.6	993.2	993.4	993.7
137.5°	1057.0	1055.8	1054.6	1053.4	1054.6	1055.8	1057.0	1058.1	1058.8	1059.0	1059.2
140°	1101.6	1100.4	1099.2	1098.1	1099.2	1100.4	1101.6	1102.8	1103.3	1103.3	1103.3
142.5°	1142.1	1140.9	1139.8	1138.6	1139.8	1140.9	1142.1	1143.2	1143.7	1143.5	1143.2
145°	1202.8	1201.7	1200.5	1199.4	1200.5	1201.7	1202.8	1203.9	1204.4	1204.1	1203.9
147.5°	1256.9	1255.8	1254.7	1253.6	1254.7	1255.8	1256.9	1258.0	1258.3	1257.6	1257.0
150°	1291.5	1290.6	1289.8	1288.9	1289.8	1290.6	1291.5	1292.4	1292.4	1291.5	1290.6
152.5°	1325.4	1324.3	1323.3	1322.2	1323.3	1324.3	1325.4	1326.5	1326.5	1325.4	1324.3
155°	1369.4	1368.6	1367.7	1366.8	1367.7	1368.6	1369.4	1370.3	1369.9	1368.6	1367.1
157.5°	1409.4	1408.0	1406.6	1405.2	1406.6	1408.0	1409.4	1410.7	1410.5	1408.5	1406.5
160°	1432.5	1431.4	1430.3	1429.1	1430.3	1431.4	1432.5	1433.7	1433.4	1431.7	1429.9
162.5°	1454.1	1452.7	1451.3	1449.8	1451.3	1452.7	1454.1	1455.4	1455.1	1453.2	1451.2
165°	1481.4	1480.1	1478.6	1477.1	1478.6	1480.1	1481.4	1482.9	1482.6	1480.6	1478.6
167.5°	1504.0	1502.4	1501.0	1499.4	1501.0	1502.4	1504.0	1505.5	1505.2	1503.2	1501.2
170°	1516.0	1514.3	1512.6	1510.9	1512.6	1514.3	1516.0	1517.8	1517.7	1515.6	1513.6
172.5°	1525.4	1523.7	1522.0	1520.3	1522.0	1523.7	1525.4	1527.2	1527.0	1525.0	1522.9
175°	1535.5	1533.8	1532.1	1530.3	1532.1	1533.8	1535.5	1537.3	1537.1	1535.1	1533.1
177.5°	1539.2	1537.8	1536.4	1535.0	1536.4	1537.8	1539.2	1540.6	1540.6	1539.2	1537.8
180°	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2



TEST NUMBER: P331802-935

CATALOG NUMBER: S122RDIW-S485D1440U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4
2.5°	889.8	893.5	898.9	902.0	907.1	910.4	912.2	915.6	917.4	923.9	930.5
5°	840.2	845.3	854.3	862.6	871.7	881.0	887.8	895.4	902.5	914.7	927.6
7.5°	783.2	790.3	804.3	817.6	833.3	846.4	858.1	871.2	883.0	900.5	918.8
10°	740.5	753.0	771.4	783.9	804.4	817.6	835.9	850.4	866.9	890.0	910.6
12.5°	703.7	718.8	733.6	751.0	769.5	791.4	811.6	830.1	849.6	873.6	897.7
15°	637.0	658.8	681.7	699.3	724.4	747.5	771.0	796.1	819.9	848.5	880.0
17.5°	551.0	576.4	614.8	645.1	674.5	697.8	726.8	757.2	785.1	819.7	854.7
20°	512.2	530.8	556.9	597.7	642.1	666.8	696.5	729.9	762.0	799.6	837.2
22.5°	481.0	497.7	518.6	550.4	599.9	633.7	664.5	698.5	735.8	774.2	815.9
25°	436.6	448.2	470.1	495.8	529.9	585.5	619.2	653.3	693.9	735.0	782.6
27.5°	403.3	413.7	427.9	452.5	477.8	517.7	571.4	608.6	648.9	695.3	744.7
30°	377.8	390.0	405.8	423.1	450.8	482.0	535.6	578.8	618.6	666.2	718.9
32.5°	359.3	368.9	382.4	400.0	423.0	452.9	495.8	548.1	586.9	637.1	692.2
35°	328.9	340.2	351.1	367.8	386.5	413.8	446.3	502.2	540.8	590.3	645.7
37.5°	303.9	310.8	322.9	336.1	355.8	376.2	404.3	454.5	496.3	544.8	601.5
40°	284.9	293.5	302.6	317.4	333.5	353.0	380.6	418.0	465.9	513.5	568.8
42.5°	266.4	277.3	286.9	296.8	314.4	334.0	356.5	388.1	437.0	482.1	535.9
45°	244.0	251.2	261.1	272.0	286.5	303.2	323.1	350.8	397.7	436.6	487.2
47.5°	218.1	228.4	234.9	245.6	259.3	275.3	293.8	317.7	355.8	392.2	439.0
50°	200.4	210.9	220.2	229.9	242.1	257.5	272.9	296.1	326.7	365.0	408.6
52.5°	185.1	194.5	203.5	213.2	225.2	239.3	253.9	274.2	300.4	335.6	378.1
55°	164.3	170.0	179.4	189.1	199.7	213.2	227.3	244.4	266.9	296.4	330.9
57.5°	142.9	149.6	157.0	166.8	177.5	187.9	200.5	216.0	233.8	260.5	290.0
60°	130.9	136.0	142.2	152.1	162.0	171.3	183.6	196.5	213.2	236.3	261.4
62.5°	117.5	122.3	127.9	136.6	146.4	154.9	165.6	179.3	193.4	214.5	236.4
65°	95.1	102.3	107.7	115.5	123.5	132.5	140.9	151.8	164.3	181.0	200.6
67.5°	78.9	82.5	87.6	94.6	102.8	110.6	118.5	127.0	137.8	150.8	166.3
70°	71.7	73.0	74.0	80.7	88.4	96.2	103.5	111.6	120.9	131.5	145.0
72.5°	63.2	64.5	65.7	68.6	74.8	82.5	90.1	96.2	105.0	113.7	124.7
75°	50.2	52.1	53.0	54.7	56.9	62.1	69.1	74.9	80.1	86.8	95.5
77.5°	38.2	39.3	40.3	42.0	43.4	45.8	49.8	55.0	59.8	63.7	69.7
80°	30.2	30.6	31.9	32.5	34.4	36.0	38.0	42.1	46.9	48.6	52.7
82.5°	22.7	23.1	24.1	24.8	25.7	27.0	29.4	30.6	34.4	36.4	39.1
85°	12.6	12.2	13.2	13.2	13.9	14.5	15.2	16.7	17.7	20.2	20.9
87.5°	12.8	12.9	12.0	10.7	9.4	8.6	7.9	7.5	7.3	7.4	7.7
90°	44.9	45.5	39.1	32.7	26.4	20.1	15.2	11.7	8.2	4.7	1.3
92.5°	41.4	41.2	39.8	38.3	36.8	35.3	33.2	30.7	28.2	25.7	23.1
95°	83.1	83.1	82.5	81.9	81.4	80.8	79.0	76.1	73.3	70.3	67.5
97.5°	139.7	139.7	138.5	137.5	136.4	135.3	133.5	131.0	128.4	125.9	123.3
100°	179.1	179.1	178.2	177.4	176.5	175.6	174.1	171.8	169.4	167.1	164.9
102.5°	222.0	221.7	220.6	219.5	218.4	217.3	215.9	214.0	212.2	210.3	208.4
105°	286.1	285.6	285.0	284.4	283.9	283.3	282.5	281.6	280.8	279.9	279.1
107.5°	356.1	355.9	355.9	355.9	355.9	355.9	355.2	354.0	352.8	351.5	350.2
110°	403.7	403.7	403.7	403.7	403.7	403.7	402.8	401.1	399.3	397.6	395.9



TEST NUMBER: P331802-935

CATALOG NUMBER: S122RDIW-S485D1440U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	451.8	452.5	452.7	453.0	453.1	453.4	452.6	450.9	449.2	447.5	445.7
115°	524.1	524.4	525.0	525.6	526.2	526.7	526.2	524.4	522.6	520.9	519.2
117.5°	594.9	595.6	597.1	598.7	600.4	602.0	601.7	599.3	597.0	594.7	592.5
120°	641.2	641.2	643.5	645.8	648.2	650.5	650.5	648.2	645.8	643.5	641.2
122.5°	690.3	691.0	692.7	694.3	695.9	697.5	697.0	694.1	691.4	688.6	685.9
125°	762.3	763.2	764.1	765.0	765.9	766.7	765.9	763.2	760.6	758.0	755.4
127.5°	832.2	833.4	834.4	835.4	836.5	837.5	836.4	833.1	829.7	826.5	823.2
130°	879.5	880.0	880.6	881.2	881.8	882.4	880.8	877.0	873.3	869.5	865.7
132.5°	926.5	927.8	927.7	927.6	927.5	927.4	925.7	922.7	919.6	916.6	913.5
135°	994.0	994.3	993.7	993.2	992.6	992.0	990.1	986.9	983.8	980.6	977.4
137.5°	1059.5	1059.7	1058.9	1058.2	1057.5	1056.7	1055.0	1052.4	1049.8	1047.2	1044.7
140°	1103.3	1103.3	1101.9	1100.4	1099.0	1097.5	1095.5	1093.0	1090.4	1087.7	1085.1
142.5°	1143.0	1142.8	1141.8	1140.8	1139.8	1138.8	1137.0	1134.5	1131.9	1129.3	1126.7
145°	1203.5	1203.2	1201.5	1199.8	1198.1	1196.4	1194.5	1192.4	1190.4	1188.4	1186.4
147.5°	1256.4	1255.7	1254.6	1253.4	1252.2	1251.1	1249.3	1246.9	1244.4	1242.0	1239.6
150°	1289.8	1288.9	1287.8	1286.6	1285.5	1284.3	1282.9	1281.2	1279.4	1277.6	1275.9
152.5°	1323.3	1322.2	1320.8	1319.4	1318.0	1316.6	1315.1	1313.3	1311.6	1309.8	1308.1
155°	1365.6	1364.2	1363.3	1362.4	1361.6	1360.7	1359.9	1359.0	1358.1	1357.3	1356.4
157.5°	1404.5	1402.7	1402.1	1401.6	1401.1	1400.6	1400.0	1399.5	1398.9	1398.3	1397.7
160°	1428.2	1426.5	1426.2	1425.9	1425.6	1425.4	1425.0	1424.4	1423.7	1423.2	1422.6
162.5°	1449.2	1447.3	1447.0	1446.7	1446.4	1446.1	1446.0	1445.8	1445.7	1445.6	1445.4
165°	1476.5	1474.5	1474.5	1474.5	1474.5	1474.5	1474.7	1475.0	1475.2	1475.6	1475.8
167.5°	1499.2	1497.1	1497.2	1497.3	1497.3	1497.4	1497.8	1498.7	1499.5	1500.4	1501.2
170°	1511.6	1509.6	1509.8	1510.2	1510.5	1510.7	1511.3	1512.2	1513.0	1513.9	1514.8
172.5°	1521.0	1518.9	1519.2	1519.5	1519.8	1520.1	1520.7	1521.6	1522.4	1523.3	1524.1
175°	1531.1	1529.0	1529.7	1530.2	1530.8	1531.4	1532.1	1532.9	1533.8	1534.6	1535.5
177.5°	1536.4	1535.0	1535.5	1535.9	1536.4	1536.9	1537.5	1538.2	1538.9	1539.6	1540.2
180°	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2



TEST NUMBER: P331802-935

CATALOG NUMBER: S122RDIW-S485D1440U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4
2.5°	930.7	931.5	936.7	939.0	943.7	945.5	947.4	946.9	946.9	948.0	955.2
5°	932.7	939.2	948.8	958.1	967.2	974.9	980.0	985.2	987.1	996.4	1004.8
7.5°	929.4	941.2	957.2	971.4	988.4	1001.8	1012.8	1022.8	1029.6	1043.2	1057.0
10°	925.1	941.8	959.8	978.1	1001.6	1019.3	1037.2	1051.1	1055.6	1075.8	1087.4
12.5°	916.3	938.7	961.6	985.3	1008.2	1032.6	1052.4	1066.3	1082.1	1100.3	1121.6
15°	903.2	928.9	958.8	989.4	1022.2	1051.7	1073.0	1097.1	1114.4	1134.4	1153.0
17.5°	884.3	917.5	955.5	990.8	1028.7	1060.5	1089.8	1112.8	1125.1	1136.4	1139.3
20°	869.4	905.1	949.8	991.6	1029.5	1066.2	1095.1	1114.4	1117.7	1117.9	1100.9
22.5°	853.3	893.5	940.3	983.1	1028.5	1069.3	1091.7	1100.0	1087.3	1065.5	1032.5
25°	823.5	870.0	924.4	973.3	1022.8	1061.4	1069.1	1054.6	1010.0	962.9	903.5
27.5°	791.2	843.5	901.8	956.1	1008.9	1032.9	1016.2	964.0	883.5	813.6	728.8
30°	767.5	826.3	883.6	944.3	993.2	1003.5	965.3	888.4	794.5	689.1	604.5
32.5°	740.5	802.1	865.0	927.9	968.8	958.7	895.5	800.9	690.9	587.2	507.2
35°	701.9	765.6	833.4	896.4	922.5	879.1	784.5	661.4	548.9	452.1	397.1
37.5°	657.4	726.7	797.2	855.1	853.3	780.8	652.1	525.0	430.4	373.2	334.0
40°	625.7	695.8	772.0	820.9	800.0	705.8	566.2	446.3	377.1	331.5	302.9
42.5°	595.4	665.7	741.4	780.2	743.9	628.1	489.0	395.1	338.0	302.5	279.2
45°	543.7	617.9	688.1	709.6	644.6	517.0	395.5	327.4	289.4	263.0	246.9
47.5°	493.3	566.3	630.3	630.7	542.8	419.3	333.6	283.3	250.9	230.5	218.8
50°	462.4	531.8	585.5	577.1	477.5	373.0	298.3	254.9	228.0	212.2	200.0
52.5°	427.7	495.0	541.5	517.7	422.1	328.2	266.7	230.3	207.9	194.2	183.3
55°	377.1	437.0	469.8	433.8	344.4	272.9	225.4	196.7	180.0	168.5	159.2
57.5°	327.6	376.9	397.5	355.6	283.6	226.4	190.6	169.2	152.6	144.3	139.5
60°	296.4	338.5	353.0	306.8	246.6	198.0	168.8	148.9	136.6	131.2	126.4
62.5°	265.9	300.2	306.3	263.8	215.0	173.4	148.3	131.4	123.3	118.0	113.5
65°	220.6	245.3	242.5	208.4	170.0	137.6	119.2	109.0	102.9	95.5	87.5
67.5°	181.6	196.7	187.6	162.0	129.8	106.9	95.0	87.2	79.6	72.6	70.8
70°	156.9	165.6	155.9	132.5	106.4	89.7	80.1	70.8	66.2	64.7	61.7
72.5°	133.3	136.3	125.9	105.7	86.6	74.3	64.9	59.7	57.3	55.9	54.0
75°	100.0	97.7	88.8	73.0	60.1	51.7	48.9	46.9	45.4	44.1	43.0
77.5°	70.3	66.9	58.9	48.6	41.8	37.9	36.2	35.1	34.4	33.7	32.7
80°	52.7	50.5	42.4	34.7	31.9	29.9	28.9	27.6	27.6	27.0	26.0
82.5°	38.6	36.1	29.1	25.5	23.8	22.7	22.0	21.2	20.9	21.1	20.4
85°	20.2	16.4	14.5	13.9	12.8	12.2	12.6	11.9	11.9	11.9	11.5
87.5°	7.1	6.5	7.0	7.4	8.6	9.9	10.9	12.2	13.7	13.3	13.5
90°	4.7	8.2	11.7	15.2	20.1	26.4	32.7	39.1	45.5	44.9	44.3
92.5°	25.7	28.2	30.7	33.2	35.3	36.8	38.3	39.8	41.2	41.4	41.5
95°	70.3	73.3	76.1	79.0	80.8	81.4	81.9	82.5	83.1	83.1	83.1
97.5°	125.9	128.4	131.0	133.5	135.3	136.4	137.5	138.5	139.7	139.7	139.7
100°	167.1	169.4	171.8	174.1	175.6	176.5	177.4	178.2	179.1	179.1	179.1
102.5°	210.3	212.2	214.0	215.9	217.3	218.4	219.5	220.6	221.7	222.0	222.1
105°	279.9	280.8	281.6	282.5	283.3	283.9	284.4	285.0	285.6	286.1	286.7
107.5°	351.5	352.8	354.0	355.2	355.9	355.9	355.9	355.9	355.9	356.1	356.4
110°	397.6	399.3	401.1	402.8	403.7	403.7	403.7	403.7	403.7	403.7	403.7





TEST NUMBER: P331802-935

CATALOG NUMBER: S122RDIW-S485D1440U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	447.5	449.2	450.9	452.6	453.4	453.1	453.0	452.7	452.5	451.8	451.1
115°	520.9	522.6	524.4	526.2	526.7	526.2	525.6	525.0	524.4	524.1	523.8
117.5°	594.7	597.0	599.3	601.7	602.0	600.4	598.7	597.1	595.6	594.9	594.2
120°	643.5	645.8	648.2	650.5	650.5	648.2	645.8	643.5	641.2	641.2	641.2
122.5°	688.6	691.4	694.1	697.0	697.5	695.9	694.3	692.7	691.0	690.3	689.7
125°	758.0	760.6	763.2	765.9	766.7	765.9	765.0	764.1	763.2	762.3	761.5
127.5°	826.5	829.7	833.1	836.4	837.5	836.5	835.4	834.4	833.4	832.2	831.2
130°	869.5	873.3	877.0	880.8	882.4	881.8	881.2	880.6	880.0	879.5	878.9
132.5°	916.6	919.6	922.7	925.7	927.4	927.5	927.6	927.7	927.8	926.5	925.3
135°	980.6	983.8	986.9	990.1	992.0	992.6	993.2	993.7	994.3	994.0	993.7
137.5°	1047.2	1049.8	1052.4	1055.0	1056.7	1057.5	1058.2	1058.9	1059.7	1059.5	1059.2
140°	1087.7	1090.4	1093.0	1095.5	1097.5	1099.0	1100.4	1101.9	1103.3	1103.3	1103.3
142.5°	1129.3	1131.9	1134.5	1137.0	1138.8	1139.8	1140.8	1141.8	1142.8	1143.0	1143.2
145°	1188.4	1190.4	1192.4	1194.5	1196.4	1198.1	1199.8	1201.5	1203.2	1203.5	1203.9
147.5°	1242.0	1244.4	1246.9	1249.3	1251.1	1252.2	1253.4	1254.6	1255.7	1256.4	1257.0
150°	1277.6	1279.4	1281.2	1282.9	1284.3	1285.5	1286.6	1287.8	1288.9	1289.8	1290.6
152.5°	1309.8	1311.6	1313.3	1315.1	1316.6	1318.0	1319.4	1320.8	1322.2	1323.3	1324.3
155°	1357.3	1358.1	1359.0	1359.9	1360.7	1361.6	1362.4	1363.3	1364.2	1365.6	1367.1
157.5°	1398.3	1398.9	1399.5	1400.0	1400.6	1401.1	1401.6	1402.1	1402.7	1404.5	1406.5
160°	1423.2	1423.7	1424.4	1425.0	1425.4	1425.6	1425.9	1426.2	1426.5	1428.2	1429.9
162.5°	1445.6	1445.7	1445.8	1446.0	1446.1	1446.4	1446.7	1447.0	1447.3	1449.2	1451.2
165°	1475.6	1475.2	1475.0	1474.7	1474.5	1474.5	1474.5	1474.5	1474.5	1476.5	1478.6
167.5°	1500.4	1499.5	1498.7	1497.8	1497.4	1497.3	1497.3	1497.2	1497.1	1499.2	1501.2
170°	1513.9	1513.0	1512.2	1511.3	1510.7	1510.5	1510.2	1509.8	1509.6	1511.6	1513.6
172.5°	1523.3	1522.4	1521.6	1520.7	1520.1	1519.8	1519.5	1519.2	1518.9	1521.0	1522.9
175°	1534.6	1533.8	1532.9	1532.1	1531.4	1530.8	1530.2	1529.7	1529.0	1531.1	1533.1
177.5°	1539.6	1538.9	1538.2	1537.5	1536.9	1536.4	1535.9	1535.5	1535.0	1536.4	1537.8
180°	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2



TEST NUMBER: P331802-935

CATALOG NUMBER: S122RDIW-S485D1440U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	925.4	925.4	925.4	925.4	925.4	925.4	925.4
2.5°	957.8	961.1	962.7	962.7	964.5	963.7	962.9
5°	1012.8	1018.9	1020.2	1026.0	1030.2	1028.9	1029.5
7.5°	1067.6	1077.4	1087.1	1091.5	1092.3	1094.8	1095.8
10°	1101.2	1109.3	1124.4	1122.1	1133.4	1139.8	1129.2
12.5°	1133.7	1144.5	1155.0	1157.9	1164.2	1166.3	1162.1
15°	1163.0	1168.7	1169.4	1167.8	1169.8	1168.1	1162.0
17.5°	1135.6	1126.2	1107.2	1098.1	1091.0	1080.5	1076.2
20°	1090.3	1062.6	1030.5	1017.6	1002.5	972.9	980.0
22.5°	992.6	961.0	928.9	891.3	873.4	845.3	843.7
25°	840.5	786.2	726.3	684.5	660.1	632.1	619.9
27.5°	653.5	585.0	536.1	511.3	488.6	466.5	465.5
30°	530.5	479.1	441.2	419.9	406.1	396.7	398.7
32.5°	447.2	411.9	386.3	368.8	358.5	351.5	351.4
35°	365.6	341.5	325.0	317.7	310.3	305.1	305.5
37.5°	312.9	298.3	289.2	281.1	276.5	274.0	272.5
40°	285.9	274.0	266.9	262.1	258.2	254.7	254.0
42.5°	264.5	254.7	247.5	243.7	240.2	237.6	237.0
45°	234.7	226.7	220.2	216.0	214.5	212.2	212.2
47.5°	208.8	200.9	195.9	193.2	190.5	189.0	188.9
50°	191.3	185.2	180.7	179.1	176.8	175.9	175.6
52.5°	175.6	171.1	167.8	166.8	165.7	164.5	164.7
55°	154.3	151.8	150.5	149.5	147.9	145.9	147.2
57.5°	136.4	134.2	130.7	127.7	126.2	124.8	125.4
60°	123.8	119.2	114.8	111.2	110.3	107.4	107.4
62.5°	107.9	101.5	96.0	94.0	93.1	91.7	91.4
65°	82.9	80.4	79.1	77.8	77.1	77.1	76.5
67.5°	68.7	67.7	66.3	66.0	65.3	65.2	64.9
70°	60.8	59.5	58.8	58.5	57.9	58.2	57.3
72.5°	53.0	52.0	51.9	51.1	50.7	50.7	50.0
75°	41.8	41.8	41.5	41.2	40.6	40.2	40.6
77.5°	32.1	32.2	31.6	31.6	31.5	31.6	31.3
80°	25.7	26.0	25.7	25.4	25.1	25.4	25.1
82.5°	20.3	19.9	19.8	19.7	19.7	19.5	19.5
85°	11.5	11.9	11.5	11.3	11.3	11.3	11.5
87.5°	13.1	13.0	13.0	13.0	13.1	13.2	12.9
90°	43.7	43.1	43.0	43.3	43.6	43.8	44.2
92.5°	41.6	41.8	41.8	41.8	41.9	42.0	42.0
95°	83.1	83.1	82.7	82.2	81.6	81.0	80.5
97.5°	139.7	139.7	139.7	139.6	139.5	139.5	139.4
100°	179.1	179.1	179.0	178.7	178.4	178.1	177.8
102.5°	222.4	222.7	222.6	222.3	222.1	221.7	221.4
105°	287.3	287.8	288.2	288.2	288.2	288.2	288.2
107.5°	356.6	356.8	356.3	355.0	353.6	352.3	350.9
110°	403.7	403.7	403.2	402.3	401.5	400.6	399.8



TEST NUMBER: P331802-935

CATALOG NUMBER: S122RDIW-S485D1440U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	450.4	449.7	449.0	448.4	447.8	447.1	446.5
115°	523.5	523.2	522.6	521.8	520.9	520.0	519.2
117.5°	593.5	592.8	591.9	591.1	590.2	589.4	588.5
120°	641.2	641.2	640.8	639.9	639.0	638.2	637.3
122.5°	689.0	688.3	687.6	687.0	686.4	685.7	685.1
125°	760.6	759.7	759.2	758.9	758.6	758.4	758.0
127.5°	830.2	829.1	828.2	827.2	826.3	825.4	824.5
130°	878.3	877.7	876.8	875.7	874.6	873.4	872.3
132.5°	924.0	922.7	921.6	920.8	919.8	918.9	917.9
135°	993.4	993.2	992.6	991.7	990.8	990.0	989.1
137.5°	1059.0	1058.8	1058.1	1057.0	1055.8	1054.6	1053.4
140°	1103.3	1103.3	1102.8	1101.6	1100.4	1099.2	1098.1
142.5°	1143.5	1143.7	1143.2	1142.1	1140.9	1139.8	1138.6
145°	1204.1	1204.4	1203.9	1202.8	1201.7	1200.5	1199.4
147.5°	1257.6	1258.3	1258.0	1256.9	1255.8	1254.7	1253.6
150°	1291.5	1292.4	1292.4	1291.5	1290.6	1289.8	1288.9
152.5°	1325.4	1326.5	1326.5	1325.4	1324.3	1323.3	1322.2
155°	1368.6	1369.9	1370.3	1369.4	1368.6	1367.7	1366.8
157.5°	1408.5	1410.5	1410.7	1409.4	1408.0	1406.6	1405.2
160°	1431.7	1433.4	1433.7	1432.5	1431.4	1430.3	1429.1
162.5°	1453.2	1455.1	1455.4	1454.1	1452.7	1451.3	1449.8
165°	1480.6	1482.6	1482.9	1481.4	1480.1	1478.6	1477.1
167.5°	1503.2	1505.2	1505.5	1504.0	1502.4	1501.0	1499.4
170°	1515.6	1517.7	1517.8	1516.0	1514.3	1512.6	1510.9
172.5°	1525.0	1527.0	1527.2	1525.4	1523.7	1522.0	1520.3
175°	1535.1	1537.1	1537.3	1535.5	1533.8	1532.1	1530.3
177.5°	1539.2	1540.6	1540.6	1539.2	1537.8	1536.4	1535.0
180°	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2

(END OF REPORT)