

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: P332438-930

Luminaire Tested: **S123RDIW-S775D1030U930-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332438-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIW-S775D1030U930-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 775 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1030 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5847.0 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

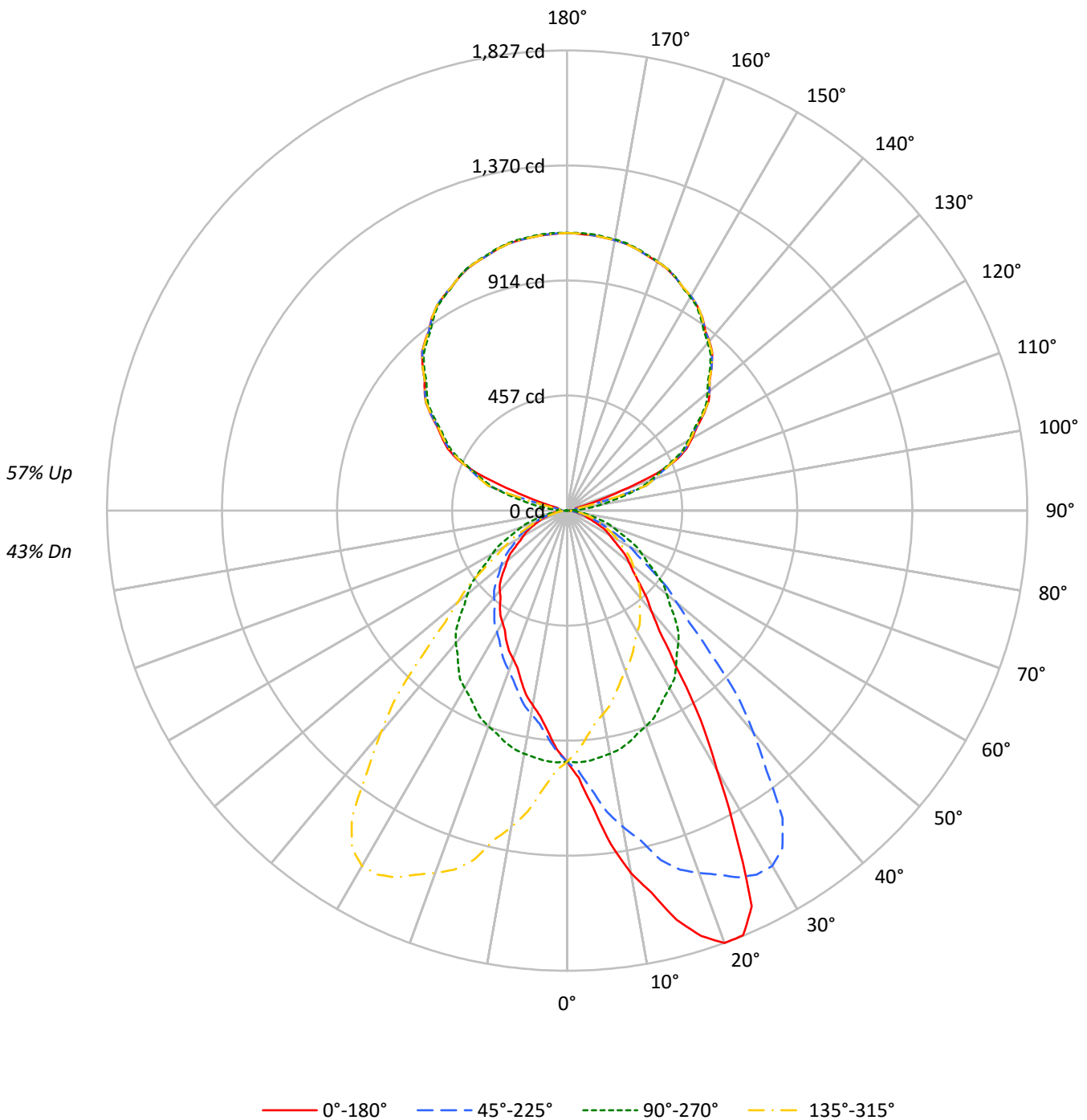
Input Watts (W): 52.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332438-930

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									20									
RC	80									70									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																			
RCR																																														
0	105	105	105	105	96	96	96	96	79	79	79	64	64	64	49	49	49	43																												
1	97	93	89	86	88	85	82	79	70	68	66	57	55	54	44	43	43	37																												
2	88	81	76	71	81	75	70	65	62	58	55	50	48	46	40	38	37	32																												
3	81	72	65	59	74	66	60	55	55	51	47	45	42	39	35	33	32	27																												
4	74	64	56	51	68	59	52	47	49	44	41	40	37	34	32	30	28	24																												
5	68	57	49	44	62	53	46	41	44	39	35	36	33	30	29	26	24	21																												
6	63	51	44	38	57	47	41	36	40	35	31	33	29	26	26	24	22	19																												
7	58	46	39	33	53	43	36	31	36	31	27	30	26	23	24	22	19	17																												
8	54	42	35	30	49	39	32	28	33	28	24	28	24	21	22	20	18	15																												
9	50	39	31	26	46	36	29	25	30	25	22	25	22	19	21	18	16	14																												
10	47	35	28	24	43	33	27	22	28	23	20	24	20	17	19	16	14	13																												

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10733	10733	10733	10733
5°	12794	10778	9492	10778
10°	15974	10717	8576	10717
15°	18750	10608	7819	10608
20°	20927	10443	7178	10443
25°	20593	10271	6783	10271
30°	14802	10112	6377	10112
35°	9883	9905	6114	9905
40°	7281	9656	5841	9656
45°	6107	9220	5574	9220
50°	5390	8649	5203	8649
55°	4725	7994	4693	7994
60°	4209	7369	4299	7369
65°	3696	6696	4001	6696
70°	2902	6099	3654	6099
75°	2558	5327	3335	5327
80°	2225	4525	3279	4525
85°	1791	3631	3483	3631



TEST NUMBER: P332438-930

CATALOG NUMBER: S123RDIW-S775D1030U930-4F0-1E-UDD-A

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.1	1.7
10°-20°	306.3	5.2
20°-30°	481.3	8.2
30°-40°	502.1	8.6
40°-50°	429.7	7.3
50°-60°	327.5	5.6
60°-70°	209.9	3.6
70°-80°	101.0	1.7
80°-90°	29.8	0.5
90°-100°	40.1	0.7
100°-110°	191.0	3.3
110°-120°	458.8	7.8
120°-130°	584.2	10.0
130°-140°	624.2	10.7
140°-150°	583.7	10.0
150°-160°	470.8	8.1
160°-170°	303.9	5.2
170°-180°	104.7	1.8
0°-30°	885.7	15.1
0°-40°	1387.8	23.7
0°-60°	2145.0	36.7
0°-90°	2485.8	42.5
90°-120°	689.8	11.8
90°-150°	2481.9	42.4
90°-180°	3361.0	57.5
0°-180°	5847.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	997	997	997	997	997	
5°	1184	998	878	998	1184	122
15°	1683	952	702	952	1683	477
25°	1734	865	571	865	1734	745
35°	752	754	465	754	752	493
45°	401	606	366	606	401	315
55°	252	426	250	426	252	228
65°	145	263	157	263	145	143
75°	62	128	80	128	62	66
85°	14	29	28	29	14	17
90°	24	1	24	1	24	12
95°	31	50	31	50	31	26
105°	36	244	36	244	36	82
115°	482	458	482	458	482	445
125°	658	645	658	645	658	588
135°	812	803	812	803	812	626
145°	936	927	936	927	936	584
155°	1020	1021	1020	1021	1020	470
165°	1074	1077	1074	1077	1074	303
175°	1098	1102	1098	1102	1098	105
180°	1102	1102	1102	1102	1102	



TEST NUMBER: P332438-930

CATALOG NUMBER: S123RDIW-S775D1030U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1
2.5°	1062.0	1063.4	1058.9	1058.3	1053.1	1051.7	1051.7	1044.6	1040.2	1034.4	1030.9
5°	1184.1	1190.9	1187.5	1179.8	1167.0	1164.0	1155.9	1143.1	1128.6	1110.7	1102.1
7.5°	1336.5	1345.9	1342.3	1330.4	1317.0	1306.2	1283.3	1262.0	1232.2	1206.1	1183.7
10°	1461.5	1451.7	1444.1	1432.5	1420.2	1400.0	1376.1	1343.3	1305.3	1275.5	1242.1
12.5°	1555.1	1553.5	1543.8	1531.9	1514.4	1495.3	1466.0	1426.0	1381.8	1338.6	1300.6
15°	1682.6	1685.2	1678.8	1666.4	1641.7	1607.9	1563.6	1546.9	1483.8	1436.8	1389.8
17.5°	1770.9	1770.4	1769.5	1752.4	1727.1	1703.2	1662.0	1618.2	1561.0	1494.9	1431.6
20°	1826.9	1822.7	1823.5	1804.3	1785.5	1757.8	1717.7	1654.1	1607.1	1530.7	1465.3
22.5°	1825.5	1824.7	1828.0	1821.4	1807.7	1786.5	1754.9	1701.2	1641.3	1564.2	1490.6
25°	1733.9	1730.5	1750.5	1756.1	1777.8	1781.7	1772.3	1742.9	1686.0	1606.6	1515.7
27.5°	1451.2	1449.3	1486.5	1533.1	1592.1	1638.1	1682.5	1703.9	1686.0	1629.2	1538.1
30°	1190.9	1231.0	1249.9	1317.3	1392.4	1482.1	1560.6	1635.2	1653.6	1628.9	1554.1
32.5°	988.8	1023.8	1039.4	1097.3	1167.3	1272.4	1390.2	1495.9	1570.7	1589.6	1544.6
35°	752.1	752.5	788.4	814.0	878.9	986.8	1101.3	1243.0	1383.8	1490.5	1501.6
37.5°	600.1	602.3	623.9	649.5	698.1	755.3	856.0	973.8	1136.5	1300.3	1396.4
40°	518.2	522.0	538.3	563.5	598.4	641.6	720.1	831.1	966.8	1149.1	1298.0
42.5°	465.6	471.8	480.2	499.6	521.3	561.7	625.2	710.9	834.3	1006.7	1178.5
45°	401.2	404.6	411.1	420.0	439.7	467.8	510.5	568.1	670.6	809.3	981.3
47.5°	353.9	352.1	358.9	366.2	379.2	398.4	427.1	474.1	547.1	658.4	804.4
50°	321.9	321.4	326.1	331.7	344.1	358.2	381.6	417.0	475.1	567.3	700.9
52.5°	291.8	293.4	296.8	303.7	312.6	324.0	345.0	370.6	420.4	500.0	611.4
55°	251.8	253.2	257.8	261.6	268.1	279.6	292.9	314.1	348.3	403.8	495.5
57.5°	218.0	217.4	221.9	222.9	230.2	239.5	249.8	266.4	291.1	332.3	394.1
60°	195.5	194.2	198.0	201.1	204.9	212.5	221.1	237.3	257.0	287.2	340.2
62.5°	175.0	174.4	177.2	180.2	183.4	190.4	197.5	210.0	225.5	251.1	293.1
65°	145.1	146.4	147.7	149.0	150.7	154.9	161.8	170.3	181.0	198.9	229.2
67.5°	114.1	115.4	115.8	118.4	122.1	124.7	128.9	136.5	143.9	159.1	176.3
70°	92.2	91.8	92.2	93.5	98.2	102.9	108.4	114.0	118.6	129.3	143.8
72.5°	79.2	78.4	79.6	79.8	82.1	83.4	86.9	92.1	98.2	105.4	115.9
75°	61.5	61.5	61.5	61.5	63.2	64.0	65.3	66.6	68.7	72.2	79.8
77.5°	45.4	45.5	46.1	46.6	46.9	47.4	48.2	49.4	50.2	52.0	55.4
80°	35.9	36.3	35.9	36.3	36.3	37.1	37.6	38.8	39.3	41.4	42.7
82.5°	27.0	26.7	27.0	27.4	27.4	28.3	28.4	29.3	29.4	30.5	31.8
85°	14.5	13.7	14.5	14.1	14.9	14.1	14.5	15.3	15.3	15.8	17.5
87.5°	8.3	9.0	8.2	8.5	8.4	8.6	8.5	8.3	8.9	8.4	8.2
90°	24.5	24.2	23.8	23.5	23.1	22.6	21.9	21.1	20.4	19.6	17.3
92.5°	27.1	27.0	26.7	26.5	26.3	25.6	24.5	23.3	22.1	21.0	19.2
95°	31.1	31.1	31.1	31.1	31.1	30.5	29.2	28.0	26.7	25.4	23.4
97.5°	33.8	33.6	33.3	33.2	33.0	32.2	30.7	29.3	27.8	26.3	23.9
100°	34.4	34.2	34.0	33.8	33.7	32.9	31.4	29.9	28.5	27.0	25.4
102.5°	35.1	34.7	34.4	34.1	33.8	33.5	32.4	31.4	30.4	29.4	28.4
105°	36.0	35.6	35.3	35.0	34.6	34.0	33.0	32.0	31.0	30.0	29.0
107.5°	113.2	137.5	161.8	186.0	210.3	234.2	257.9	281.4	305.1	328.7	326.1
110°	225.2	251.2	277.2	303.3	329.3	345.3	351.3	357.3	363.3	369.3	367.3



TEST NUMBER: P332438-930

CATALOG NUMBER: S123RDIW-S775D1030U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	386.4	391.8	397.4	402.8	408.3	411.0	410.9	410.8	410.7	410.6	408.6
115°	481.5	480.8	480.0	479.3	478.6	477.4	475.5	473.7	471.9	470.0	468.4
117.5°	534.9	534.8	534.6	534.4	534.3	533.5	532.1	530.6	529.1	527.7	526.8
120°	571.6	571.6	571.6	571.6	571.6	570.9	569.4	567.9	566.5	565.0	564.5
122.5°	607.6	607.5	607.3	607.2	607.1	606.4	605.4	604.4	603.4	602.3	601.7
125°	658.4	658.0	657.6	657.3	657.0	656.6	656.2	655.8	655.5	655.1	654.4
127.5°	707.2	707.6	707.9	708.3	708.7	708.6	707.9	707.4	706.8	706.2	705.3
130°	738.7	739.0	739.4	739.7	740.1	739.9	739.2	738.5	737.8	737.0	736.3
132.5°	767.4	768.0	768.5	769.0	769.5	769.4	768.7	767.9	767.2	766.5	765.9
135°	811.5	812.0	812.6	813.2	813.7	813.7	813.2	812.6	812.0	811.5	810.8
137.5°	853.0	853.3	853.7	854.0	854.4	854.2	853.3	852.4	851.5	850.7	850.3
140°	877.8	878.2	878.6	879.0	879.3	879.1	878.4	877.7	876.9	876.2	875.6
142.5°	900.7	901.3	901.8	902.3	902.8	902.8	902.2	901.6	901.1	900.4	899.9
145°	936.0	936.0	936.0	936.0	936.0	935.8	935.5	935.1	934.7	934.3	934.0
147.5°	962.2	963.0	963.8	964.7	965.6	965.8	965.4	965.1	964.7	964.3	963.9
150°	981.9	982.4	982.9	983.5	984.1	984.1	983.7	983.4	983.0	982.7	982.3
152.5°	997.6	998.4	999.2	1000.0	1000.9	1001.0	1000.4	999.7	999.1	998.4	998.2
155°	1019.5	1020.6	1021.7	1022.8	1023.9	1024.0	1023.0	1022.1	1021.2	1020.3	1020.2
157.5°	1038.0	1039.4	1040.9	1042.3	1043.7	1043.8	1042.8	1041.7	1040.6	1039.5	1039.7
160°	1049.8	1051.1	1052.4	1053.6	1054.9	1055.0	1053.9	1052.8	1051.7	1050.7	1050.8
162.5°	1060.9	1062.1	1063.2	1064.4	1065.4	1065.4	1064.2	1062.9	1061.7	1060.5	1060.6
165°	1074.4	1075.6	1076.9	1078.2	1079.5	1079.4	1077.9	1076.4	1075.1	1073.6	1073.7
167.5°	1084.0	1085.5	1087.0	1088.4	1089.9	1089.9	1088.4	1087.0	1085.5	1084.0	1084.0
170°	1090.0	1091.4	1092.8	1094.3	1095.8	1095.8	1094.3	1092.8	1091.4	1090.0	1090.0
172.5°	1093.2	1094.8	1096.4	1098.0	1099.6	1099.7	1098.2	1096.8	1095.4	1093.9	1093.7
175°	1098.1	1099.6	1101.1	1102.5	1104.0	1104.1	1102.8	1101.5	1100.2	1098.9	1098.8
177.5°	1099.6	1101.1	1102.5	1104.0	1105.5	1105.5	1104.4	1103.3	1102.1	1100.9	1100.7
180°	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2



TEST NUMBER: P332438-930

CATALOG NUMBER: S123RDIW-S775D1030U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1
2.5°	1029.6	1028.5	1023.8	1018.3	1011.1	1006.3	1002.6	1000.5	994.4	986.8	981.8
5°	1093.2	1080.4	1066.7	1050.0	1034.7	1018.9	1009.1	997.5	983.5	967.7	956.6
7.5°	1161.3	1136.2	1109.1	1081.2	1053.6	1028.9	1007.1	988.3	965.9	943.2	927.4
10°	1213.6	1176.8	1138.8	1100.0	1064.5	1031.3	1005.7	980.5	953.6	927.6	907.9
12.5°	1261.0	1212.7	1168.9	1121.2	1075.9	1036.1	999.1	969.6	937.2	909.5	887.0
15°	1321.1	1271.6	1218.6	1146.1	1085.9	1035.5	990.8	951.9	912.6	878.5	856.7
17.5°	1377.3	1302.8	1231.7	1171.1	1092.9	1030.0	975.3	928.8	885.7	849.5	822.7
20°	1400.5	1328.4	1251.1	1173.9	1097.0	1026.5	963.0	911.7	866.9	826.0	801.2
22.5°	1414.5	1332.8	1251.4	1168.4	1086.8	1013.6	950.7	894.3	845.8	806.8	776.2
25°	1430.8	1333.5	1243.8	1161.9	1078.6	999.2	924.5	864.8	812.3	770.9	738.4
27.5°	1441.5	1327.1	1221.2	1130.0	1045.6	966.5	898.1	834.8	781.5	737.7	702.9
30°	1443.6	1321.9	1203.7	1105.1	1019.3	946.7	874.2	813.6	757.2	710.7	678.2
32.5°	1446.3	1309.3	1180.1	1075.4	987.6	915.7	849.9	792.1	734.3	688.5	655.4
35°	1435.1	1302.4	1144.4	1024.0	936.0	866.5	807.1	753.8	697.1	652.6	618.9
37.5°	1386.6	1274.6	1107.3	966.1	874.2	809.8	761.4	714.9	662.8	614.9	583.2
40°	1337.7	1247.2	1078.6	931.0	834.9	768.7	725.2	687.2	636.8	592.1	557.9
42.5°	1265.0	1210.1	1051.3	894.1	790.5	726.8	690.1	654.4	610.3	564.8	532.6
45°	1131.6	1138.8	995.4	835.4	729.0	665.0	630.5	605.7	566.5	528.9	496.0
47.5°	964.3	1032.1	929.8	772.7	664.2	604.1	574.0	552.4	525.9	489.0	459.0
50°	855.0	951.9	877.2	730.8	623.6	563.9	534.0	516.5	493.4	464.4	435.8
52.5°	754.2	858.3	813.7	684.0	579.6	525.0	495.8	481.4	463.0	435.7	409.9
55°	615.1	720.6	710.3	613.3	513.5	464.4	442.2	426.0	413.6	393.1	372.7
57.5°	497.6	597.5	602.8	534.8	455.3	406.8	387.7	375.4	367.4	351.9	333.0
60°	423.5	515.2	533.1	481.9	413.6	371.0	352.1	342.3	335.9	323.6	309.1
62.5°	362.0	440.1	460.4	423.5	373.7	333.7	319.0	309.6	305.2	294.5	281.7
65°	277.0	341.9	361.5	341.0	315.0	283.0	271.1	262.9	259.1	253.2	243.7
67.5°	208.3	255.6	277.1	262.7	253.3	233.1	225.4	221.1	217.7	213.6	205.8
70°	167.3	202.4	224.5	220.7	213.0	202.4	196.8	193.8	190.4	186.9	180.1
72.5°	134.5	158.7	179.4	181.4	175.1	172.9	168.1	166.8	164.8	160.7	156.9
75°	89.2	105.8	120.3	125.9	128.5	130.6	128.5	128.1	127.6	124.3	122.1
77.5°	58.5	67.4	76.6	86.0	90.1	92.9	93.7	95.2	94.1	92.3	91.2
80°	44.8	47.0	53.3	61.5	67.8	70.4	72.2	73.0	72.6	72.2	70.4
82.5°	32.5	34.3	37.3	43.0	48.4	52.7	53.7	53.6	54.5	54.7	53.3
85°	17.5	17.9	18.8	19.6	22.6	27.3	28.6	29.4	30.3	30.3	27.7
87.5°	8.5	7.7	7.8	7.4	8.1	8.1	9.8	11.1	11.8	10.8	11.2
90°	14.9	12.6	10.2	8.1	6.3	4.5	2.6	0.8	2.6	4.5	6.3
92.5°	17.4	15.7	13.9	13.2	13.7	14.2	14.8	15.2	14.8	14.2	13.7
95°	21.4	19.4	17.4	20.1	27.6	35.1	42.5	50.0	42.5	35.1	27.6
97.5°	52.6	65.7	78.8	87.0	90.3	93.7	97.0	100.4	97.0	93.7	90.3
100°	83.8	112.2	140.6	153.0	149.3	145.7	142.0	138.4	142.0	145.7	149.3
102.5°	115.9	146.9	177.9	192.1	189.5	186.9	184.3	181.6	184.3	186.9	189.5
105°	212.1	228.4	244.8	252.0	250.1	248.0	246.1	244.0	246.1	248.0	250.1
107.5°	323.5	321.0	318.4	316.3	314.7	313.1	311.4	309.9	311.4	313.1	314.7
110°	365.3	363.3	361.3	359.5	358.2	356.7	355.2	353.8	355.2	356.7	358.2



TEST NUMBER: P332438-930

CATALOG NUMBER: S123RDIW-S775D1030U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	406.6	404.6	402.6	401.0	399.7	398.3	397.0	395.7	397.0	398.3	399.7
115°	466.8	465.1	463.5	462.1	461.1	459.9	458.9	457.8	458.9	459.9	461.1
117.5°	526.0	525.2	524.3	523.3	521.9	520.6	519.2	517.9	519.2	520.6	521.9
120°	563.9	563.4	562.9	561.7	560.1	558.5	556.8	555.2	556.8	558.5	560.1
122.5°	601.0	600.3	599.6	598.6	597.2	595.9	594.5	593.2	594.5	595.9	597.2
125°	653.6	652.9	652.2	651.1	649.6	648.2	646.8	645.3	646.8	648.2	649.6
127.5°	704.5	703.6	702.7	701.6	700.1	698.6	697.2	695.7	697.2	698.6	700.1
130°	735.6	734.8	734.1	733.0	731.6	730.1	728.6	727.2	728.6	730.1	731.6
132.5°	765.3	764.8	764.2	763.1	761.7	760.2	758.8	757.3	758.8	760.2	761.7
135°	810.1	809.3	808.6	807.7	806.6	805.5	804.5	803.3	804.5	805.5	806.6
137.5°	849.9	849.5	849.1	848.2	846.8	845.4	844.0	842.6	844.0	845.4	846.8
140°	875.1	874.6	874.0	873.2	872.1	871.1	869.9	868.9	869.9	871.1	872.1
142.5°	899.4	898.8	898.3	897.5	896.3	895.3	894.1	893.1	894.1	895.3	896.3
145°	933.6	933.3	932.9	932.1	930.8	929.5	928.2	927.0	928.2	929.5	930.8
147.5°	963.6	963.2	962.9	962.3	961.4	960.6	959.8	959.0	959.8	960.6	961.4
150°	981.9	981.5	981.2	980.7	980.2	979.7	979.1	978.6	979.1	979.7	980.2
152.5°	997.9	997.8	997.5	997.3	997.0	996.8	996.5	996.3	996.5	996.8	997.0
155°	1019.9	1019.8	1019.6	1019.7	1020.1	1020.4	1020.8	1021.2	1020.8	1020.4	1020.1
157.5°	1039.8	1040.1	1040.2	1040.3	1040.4	1040.4	1040.5	1040.5	1040.5	1040.4	1040.4
160°	1051.0	1051.2	1051.3	1051.6	1051.7	1051.9	1052.1	1052.3	1052.1	1051.9	1051.7
162.5°	1060.9	1061.0	1061.2	1061.5	1062.0	1062.5	1062.9	1063.4	1062.9	1062.5	1062.0
165°	1073.9	1074.1	1074.3	1074.6	1075.2	1075.8	1076.3	1076.8	1076.3	1075.8	1075.2
167.5°	1084.0	1084.0	1084.0	1084.4	1085.2	1085.9	1086.6	1087.3	1086.6	1085.9	1085.2
170°	1090.0	1090.0	1090.0	1090.3	1091.0	1091.8	1092.5	1093.2	1092.5	1091.8	1091.0
172.5°	1093.6	1093.4	1093.3	1093.6	1094.5	1095.4	1096.3	1097.1	1096.3	1095.4	1094.5
175°	1098.6	1098.4	1098.2	1098.6	1099.5	1100.4	1101.3	1102.2	1101.3	1100.4	1099.5
177.5°	1100.7	1100.5	1100.3	1100.7	1101.4	1102.1	1102.8	1103.5	1102.8	1102.1	1101.4
180°	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2



TEST NUMBER: P332438-930

CATALOG NUMBER: S123RDIW-S775D1030U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1
2.5°	980.1	975.6	972.6	965.7	961.2	956.5	951.7	954.8	954.5	954.1	954.1
5°	947.2	937.3	928.4	916.9	909.6	900.7	893.8	893.0	894.7	888.7	885.3
7.5°	914.6	901.2	888.4	875.7	862.3	851.5	844.7	841.6	837.2	833.6	829.7
10°	891.7	875.9	863.5	847.7	833.2	820.4	812.3	806.7	803.7	800.8	795.2
12.5°	868.1	852.6	836.9	819.0	805.2	790.4	784.3	778.0	772.3	769.0	761.4
15°	833.6	813.6	797.0	778.1	762.8	748.3	739.7	727.3	725.6	721.4	713.7
17.5°	799.1	777.3	754.3	740.5	723.1	708.0	695.0	690.8	678.6	674.0	667.3
20°	771.8	751.7	734.2	715.8	690.6	676.5	666.3	660.8	650.9	645.0	640.7
22.5°	748.2	727.8	707.5	686.2	665.4	649.5	642.0	633.4	628.1	619.7	615.1
25°	714.5	692.4	668.1	645.0	630.1	618.1	606.1	598.4	590.8	586.9	578.4
27.5°	675.5	652.2	629.5	612.0	593.7	581.9	571.0	564.2	555.0	548.5	543.8
30°	654.0	626.6	607.0	591.2	567.7	556.6	548.5	540.0	533.1	526.3	521.6
32.5°	629.0	604.1	585.5	565.9	547.9	535.8	525.3	517.8	511.9	505.5	500.8
35°	589.9	569.0	549.8	530.1	516.9	504.5	492.2	485.8	480.2	474.3	469.9
37.5°	554.6	535.0	516.7	498.1	481.8	471.7	461.7	456.8	449.3	445.3	440.9
40°	532.7	513.5	493.8	476.0	458.9	451.2	442.2	435.0	428.1	425.2	420.4
42.5°	508.8	489.6	473.0	453.7	439.8	429.3	421.0	413.1	408.0	403.7	401.0
45°	473.4	456.3	440.1	420.9	407.6	398.7	389.3	382.0	377.3	374.4	369.7
47.5°	439.0	421.9	405.4	388.7	375.9	365.7	356.3	351.2	345.0	341.3	338.2
50°	414.0	398.7	381.2	365.8	353.0	342.8	335.1	328.6	323.1	318.5	316.3
52.5°	391.2	374.8	359.6	345.4	331.8	320.2	313.2	306.5	302.3	296.9	294.4
55°	353.4	337.6	324.8	310.7	297.5	287.7	279.2	273.2	268.9	262.9	259.5
57.5°	318.0	303.9	288.5	276.3	262.7	254.4	247.3	239.2	234.0	229.3	226.0
60°	294.1	277.9	264.6	253.2	241.2	230.5	224.1	217.7	212.1	207.4	204.5
62.5°	269.2	255.0	242.5	229.9	219.0	209.7	202.3	196.9	192.0	189.0	186.1
65°	230.9	219.8	207.0	196.8	186.5	179.7	173.7	169.0	165.6	163.5	160.9
67.5°	195.8	185.0	173.8	163.7	156.9	151.7	147.8	143.7	142.0	139.3	137.6
70°	172.8	161.8	152.0	144.3	137.5	133.6	131.0	128.1	126.4	122.9	121.2
72.5°	148.0	139.9	132.8	126.5	121.1	117.6	114.3	110.6	107.9	104.1	102.5
75°	116.5	109.3	103.7	99.5	96.0	91.3	86.7	82.8	81.5	80.2	79.8
77.5°	86.3	81.7	77.7	74.1	69.9	66.4	65.4	64.6	64.2	63.6	63.6
80°	67.8	63.6	60.6	56.3	53.8	53.8	53.8	52.9	53.3	53.3	53.3
82.5°	50.5	46.6	44.9	43.4	42.9	43.2	43.2	43.4	43.1	43.8	43.5
85°	26.0	26.5	27.3	26.9	27.3	27.3	28.2	27.7	28.2	27.3	28.2
87.5°	11.2	12.6	13.5	14.3	15.1	15.2	15.7	15.8	16.3	16.5	16.6
90°	8.1	10.2	12.6	14.9	17.3	19.6	20.4	21.1	21.9	22.6	23.1
92.5°	13.2	13.9	15.7	17.4	19.2	21.0	22.1	23.3	24.5	25.6	26.3
95°	20.1	17.4	19.4	21.4	23.4	25.4	26.7	28.0	29.2	30.5	31.1
97.5°	87.0	78.8	65.7	52.6	39.5	26.3	27.8	29.3	30.7	32.2	33.0
100°	153.0	140.6	112.2	83.8	55.4	27.0	28.5	29.9	31.4	32.9	33.7
102.5°	192.1	177.9	146.9	115.9	84.9	53.9	49.4	44.8	40.4	35.8	33.8
105°	252.0	244.8	228.4	212.1	195.8	179.4	147.2	115.0	82.7	50.5	34.6
107.5°	316.3	318.4	321.0	323.5	326.1	328.7	305.1	281.4	257.9	234.2	210.3
110°	359.5	361.3	363.3	365.3	367.3	369.3	363.3	357.3	351.3	345.3	329.3



TEST NUMBER: P332438-930

CATALOG NUMBER: S123RDIW-S775D1030U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	401.0	402.6	404.6	406.6	408.6	410.6	410.7	410.8	410.9	411.0	408.3
115°	462.1	463.5	465.1	466.8	468.4	470.0	471.9	473.7	475.5	477.4	478.6
117.5°	523.3	524.3	525.2	526.0	526.8	527.7	529.1	530.6	532.1	533.5	534.3
120°	561.7	562.9	563.4	563.9	564.5	565.0	566.5	567.9	569.4	570.9	571.6
122.5°	598.6	599.6	600.3	601.0	601.7	602.3	603.4	604.4	605.4	606.4	607.1
125°	651.1	652.2	652.9	653.6	654.4	655.1	655.5	655.8	656.2	656.6	657.0
127.5°	701.6	702.7	703.6	704.5	705.3	706.2	706.8	707.4	707.9	708.6	708.7
130°	733.0	734.1	734.8	735.6	736.3	737.0	737.8	738.5	739.2	739.9	740.1
132.5°	763.1	764.2	764.8	765.3	765.9	766.5	767.2	767.9	768.7	769.4	769.5
135°	807.7	808.6	809.3	810.1	810.8	811.5	812.0	812.6	813.2	813.7	813.7
137.5°	848.2	849.1	849.5	849.9	850.3	850.7	851.5	852.4	853.3	854.2	854.4
140°	873.2	874.0	874.6	875.1	875.6	876.2	876.9	877.7	878.4	879.1	879.3
142.5°	897.5	898.3	898.8	899.4	899.9	900.4	901.1	901.6	902.2	902.8	902.8
145°	932.1	932.9	933.3	933.6	934.0	934.3	934.7	935.1	935.5	935.8	936.0
147.5°	962.3	962.9	963.2	963.6	963.9	964.3	964.7	965.1	965.4	965.8	965.6
150°	980.7	981.2	981.5	981.9	982.3	982.7	983.0	983.4	983.7	984.1	984.1
152.5°	997.3	997.5	997.8	997.9	998.2	998.4	999.1	999.7	1000.4	1001.0	1000.9
155°	1019.7	1019.6	1019.8	1019.9	1020.2	1020.3	1021.2	1022.1	1023.0	1024.0	1023.9
157.5°	1040.3	1040.2	1040.1	1039.8	1039.7	1039.5	1040.6	1041.7	1042.8	1043.8	1043.7
160°	1051.6	1051.3	1051.2	1051.0	1050.8	1050.7	1051.7	1052.8	1053.9	1055.0	1054.9
162.5°	1061.5	1061.2	1061.0	1060.9	1060.6	1060.5	1061.7	1062.9	1064.2	1065.4	1065.4
165°	1074.6	1074.3	1074.1	1073.9	1073.7	1073.6	1075.1	1076.4	1077.9	1079.4	1079.5
167.5°	1084.4	1084.0	1084.0	1084.0	1084.0	1084.0	1085.5	1087.0	1088.4	1089.9	1089.9
170°	1090.3	1090.0	1090.0	1090.0	1090.0	1090.0	1091.4	1092.8	1094.3	1095.8	1095.8
172.5°	1093.6	1093.3	1093.4	1093.6	1093.7	1093.9	1095.4	1096.8	1098.2	1099.7	1099.6
175°	1098.6	1098.2	1098.4	1098.6	1098.8	1098.9	1100.2	1101.5	1102.8	1104.1	1104.0
177.5°	1100.7	1100.3	1100.5	1100.7	1100.7	1100.9	1102.1	1103.3	1104.4	1105.5	1105.5
180°	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2



TEST NUMBER: P332438-930

CATALOG NUMBER: S123RDIW-S775D1030U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1
2.5°	950.0	949.7	950.0	948.6	950.0	949.7	950.0	954.1	954.1	954.5	954.8
5°	884.0	883.5	882.3	878.5	882.3	883.5	884.0	885.3	888.7	894.7	893.0
7.5°	826.4	825.8	822.1	822.1	822.1	825.8	826.4	829.7	833.6	837.2	841.6
10°	792.2	792.6	787.6	784.6	787.6	792.6	792.2	795.2	800.8	803.7	806.7
12.5°	759.1	757.2	753.0	749.7	753.0	757.2	759.1	761.4	769.0	772.3	778.0
15°	715.4	711.1	700.9	701.7	700.9	711.1	715.4	713.7	721.4	725.6	727.3
17.5°	663.9	660.8	660.6	654.6	660.6	660.8	663.9	667.3	674.0	678.6	690.8
20°	633.9	631.8	632.6	626.6	632.6	631.8	633.9	640.7	645.0	650.9	660.8
22.5°	610.3	608.2	604.6	602.8	604.6	608.2	610.3	615.1	619.7	628.1	633.4
25°	575.8	572.4	569.0	571.1	569.0	572.4	575.8	578.4	586.9	590.8	598.4
27.5°	541.4	538.7	535.3	534.9	535.3	538.7	541.4	543.8	548.5	555.0	564.2
30°	519.5	516.9	515.2	513.1	515.2	516.9	519.5	521.6	526.3	533.1	540.0
32.5°	497.3	496.8	493.7	493.3	493.7	496.8	497.3	500.8	505.5	511.9	517.8
35°	468.2	465.7	464.8	465.3	464.8	465.7	468.2	469.9	474.3	480.2	485.8
37.5°	440.7	437.2	435.7	434.2	435.7	437.2	440.7	440.9	445.3	449.3	456.8
40°	420.9	417.4	416.6	415.7	416.6	417.4	420.9	420.4	425.2	428.1	435.0
42.5°	398.7	397.3	396.8	395.3	396.8	397.3	398.7	401.0	403.7	408.0	413.1
45°	368.4	367.9	365.4	366.2	365.4	367.9	368.4	369.7	374.4	377.3	382.0
47.5°	336.5	334.6	332.8	333.9	332.8	334.6	336.5	338.2	341.3	345.0	351.2
50°	314.6	313.7	309.9	310.7	309.9	313.7	314.6	316.3	318.5	323.1	328.6
52.5°	292.8	289.5	288.0	287.6	288.0	289.5	292.8	294.4	296.9	302.3	306.5
55°	256.6	252.7	250.9	250.1	250.9	252.7	256.6	259.5	262.9	268.9	273.2
57.5°	221.0	220.0	218.7	219.6	218.7	220.0	221.0	226.0	229.3	234.0	239.2
60°	200.2	200.2	200.2	199.7	200.2	200.2	200.2	204.5	207.4	212.1	217.7
62.5°	184.2	183.1	182.8	183.4	182.8	183.1	184.2	186.1	189.0	192.0	196.9
65°	159.6	159.2	157.5	157.1	157.5	159.2	159.6	160.9	163.5	165.6	169.0
67.5°	136.5	134.9	134.4	133.9	134.4	134.9	136.5	137.6	139.3	142.0	143.7
70°	119.1	118.2	115.7	116.1	115.7	118.2	119.1	121.2	122.9	126.4	128.1
72.5°	100.3	99.5	99.0	98.3	99.0	99.5	100.3	102.5	104.1	107.9	110.6
75°	79.4	79.0	78.5	80.2	78.5	79.0	79.4	79.8	80.2	81.5	82.8
77.5°	63.6	63.6	63.8	63.2	63.8	63.6	63.6	63.6	63.6	64.2	64.6
80°	53.3	53.3	52.9	52.9	52.9	53.3	53.3	53.3	53.3	53.3	52.9
82.5°	42.8	43.1	43.4	42.7	43.4	43.1	42.8	43.5	43.8	43.1	43.4
85°	28.2	27.7	28.6	28.2	28.6	27.7	28.2	28.2	27.3	28.2	27.7
87.5°	17.4	16.7	16.8	17.2	16.8	16.7	17.4	16.6	16.5	16.3	15.8
90°	23.5	23.8	24.2	24.5	24.2	23.8	23.5	23.1	22.6	21.9	21.1
92.5°	26.5	26.7	27.0	27.1	27.0	26.7	26.5	26.3	25.6	24.5	23.3
95°	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	30.5	29.2	28.0
97.5°	33.2	33.3	33.6	33.8	33.6	33.3	33.2	33.0	32.2	30.7	29.3
100°	33.8	34.0	34.2	34.4	34.2	34.0	33.8	33.7	32.9	31.4	29.9
102.5°	34.1	34.4	34.7	35.1	34.7	34.4	34.1	33.8	35.8	40.4	44.8
105°	35.0	35.3	35.6	36.0	35.6	35.3	35.0	34.6	50.5	82.7	115.0
107.5°	186.0	161.8	137.5	113.2	137.5	161.8	186.0	210.3	234.2	257.9	281.4
110°	303.3	277.2	251.2	225.2	251.2	277.2	303.3	329.3	345.3	351.3	357.3



TEST NUMBER: P332438-930

CATALOG NUMBER: S123RDIW-S775D1030U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	402.8	397.4	391.8	386.4	391.8	397.4	402.8	408.3	411.0	410.9	410.8
115°	479.3	480.0	480.8	481.5	480.8	480.0	479.3	478.6	477.4	475.5	473.7
117.5°	534.4	534.6	534.8	534.9	534.8	534.6	534.4	534.3	533.5	532.1	530.6
120°	571.6	571.6	571.6	571.6	571.6	571.6	571.6	571.6	570.9	569.4	567.9
122.5°	607.2	607.3	607.5	607.6	607.5	607.3	607.2	607.1	606.4	605.4	604.4
125°	657.3	657.6	658.0	658.4	658.0	657.6	657.3	657.0	656.6	656.2	655.8
127.5°	708.3	707.9	707.6	707.2	707.6	707.9	708.3	708.7	708.6	707.9	707.4
130°	739.7	739.4	739.0	738.7	739.0	739.4	739.7	740.1	739.9	739.2	738.5
132.5°	769.0	768.5	768.0	767.4	768.0	768.5	769.0	769.5	769.4	768.7	767.9
135°	813.2	812.6	812.0	811.5	812.0	812.6	813.2	813.7	813.7	813.2	812.6
137.5°	854.0	853.7	853.3	853.0	853.3	853.7	854.0	854.4	854.2	853.3	852.4
140°	879.0	878.6	878.2	877.8	878.2	878.6	879.0	879.3	879.1	878.4	877.7
142.5°	902.3	901.8	901.3	900.7	901.3	901.8	902.3	902.8	902.8	902.2	901.6
145°	936.0	936.0	936.0	936.0	936.0	936.0	936.0	936.0	935.8	935.5	935.1
147.5°	964.7	963.8	963.0	962.2	963.0	963.8	964.7	965.6	965.8	965.4	965.1
150°	983.5	982.9	982.4	981.9	982.4	982.9	983.5	984.1	984.1	983.7	983.4
152.5°	1000.0	999.2	998.4	997.6	998.4	999.2	1000.0	1000.9	1001.0	1000.4	999.7
155°	1022.8	1021.7	1020.6	1019.5	1020.6	1021.7	1022.8	1023.9	1024.0	1023.0	1022.1
157.5°	1042.3	1040.9	1039.4	1038.0	1039.4	1040.9	1042.3	1043.7	1043.8	1042.8	1041.7
160°	1053.6	1052.4	1051.1	1049.8	1051.1	1052.4	1053.6	1054.9	1055.0	1053.9	1052.8
162.5°	1064.4	1063.2	1062.1	1060.9	1062.1	1063.2	1064.4	1065.4	1065.4	1064.2	1062.9
165°	1078.2	1076.9	1075.6	1074.4	1075.6	1076.9	1078.2	1079.5	1079.4	1077.9	1076.4
167.5°	1088.4	1087.0	1085.5	1084.0	1085.5	1087.0	1088.4	1089.9	1089.9	1088.4	1087.0
170°	1094.3	1092.8	1091.4	1090.0	1091.4	1092.8	1094.3	1095.8	1095.8	1094.3	1092.8
172.5°	1098.0	1096.4	1094.8	1093.2	1094.8	1096.4	1098.0	1099.6	1099.7	1098.2	1096.8
175°	1102.5	1101.1	1099.6	1098.1	1099.6	1101.1	1102.5	1104.0	1104.1	1102.8	1101.5
177.5°	1104.0	1102.5	1101.1	1099.6	1101.1	1102.5	1104.0	1105.5	1105.5	1104.4	1103.3
180°	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2



TEST NUMBER: P332438-930

CATALOG NUMBER: S123RDIW-S775D1030U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1
2.5°	951.7	956.5	961.2	965.7	972.6	975.6	980.1	981.8	986.8	994.4	1000.5
5°	893.8	900.7	909.6	916.9	928.4	937.3	947.2	956.6	967.7	983.5	997.5
7.5°	844.7	851.5	862.3	875.7	888.4	901.2	914.6	927.4	943.2	965.9	988.3
10°	812.3	820.4	833.2	847.7	863.5	875.9	891.7	907.9	927.6	953.6	980.5
12.5°	784.3	790.4	805.2	819.0	836.9	852.6	868.1	887.0	909.5	937.2	969.6
15°	739.7	748.3	762.8	778.1	797.0	813.6	833.6	856.7	878.5	912.6	951.9
17.5°	695.0	708.0	723.1	740.5	754.3	777.3	799.1	822.7	849.5	885.7	928.8
20°	666.3	676.5	690.6	715.8	734.2	751.7	771.8	801.2	826.0	866.9	911.7
22.5°	642.0	649.5	665.4	686.2	707.5	727.8	748.2	776.2	806.8	845.8	894.3
25°	606.1	618.1	630.1	645.0	668.1	692.4	714.5	738.4	770.9	812.3	864.8
27.5°	571.0	581.9	593.7	612.0	629.5	652.2	675.5	702.9	737.7	781.5	834.8
30°	548.5	556.6	567.7	591.2	607.0	626.6	654.0	678.2	710.7	757.2	813.6
32.5°	525.3	535.8	547.9	565.9	585.5	604.1	629.0	655.4	688.5	734.3	792.1
35°	492.2	504.5	516.9	530.1	549.8	569.0	589.9	618.9	652.6	697.1	753.8
37.5°	461.7	471.7	481.8	498.1	516.7	535.0	554.6	583.2	614.9	662.8	714.9
40°	442.2	451.2	458.9	476.0	493.8	513.5	532.7	557.9	592.1	636.8	687.2
42.5°	421.0	429.3	439.8	453.7	473.0	489.6	508.8	532.6	564.8	610.3	654.4
45°	389.3	398.7	407.6	420.9	440.1	456.3	473.4	496.0	528.9	566.5	605.7
47.5°	356.3	365.7	375.9	388.7	405.4	421.9	439.0	459.0	489.0	525.9	552.4
50°	335.1	342.8	353.0	365.8	381.2	398.7	414.0	435.8	464.4	493.4	516.5
52.5°	313.2	320.2	331.8	345.4	359.6	374.8	391.2	409.9	435.7	463.0	481.4
55°	279.2	287.7	297.5	310.7	324.8	337.6	353.4	372.7	393.1	413.6	426.0
57.5°	247.3	254.4	262.7	276.3	288.5	303.9	318.0	333.0	351.9	367.4	375.4
60°	224.1	230.5	241.2	253.2	264.6	277.9	294.1	309.1	323.6	335.9	342.3
62.5°	202.3	209.7	219.0	229.9	242.5	255.0	269.2	281.7	294.5	305.2	309.6
65°	173.7	179.7	186.5	196.8	207.0	219.8	230.9	243.7	253.2	259.1	262.9
67.5°	147.8	151.7	156.9	163.7	173.8	185.0	195.8	205.8	213.6	217.7	221.1
70°	131.0	133.6	137.5	144.3	152.0	161.8	172.8	180.1	186.9	190.4	193.8
72.5°	114.3	117.6	121.1	126.5	132.8	139.9	148.0	156.9	160.7	164.8	166.8
75°	86.7	91.3	96.0	99.5	103.7	109.3	116.5	122.1	124.3	127.6	128.1
77.5°	65.4	66.4	69.9	74.1	77.7	81.7	86.3	91.2	92.3	94.1	95.2
80°	53.8	53.8	53.8	56.3	60.6	63.6	67.8	70.4	72.2	72.6	73.0
82.5°	43.2	43.2	42.9	43.4	44.9	46.6	50.5	53.3	54.7	54.5	53.6
85°	28.2	27.3	27.3	26.9	27.3	26.5	26.0	27.7	30.3	30.3	29.4
87.5°	15.7	15.2	15.1	14.3	13.5	12.6	11.2	11.2	10.8	11.8	11.1
90°	20.4	19.6	17.3	14.9	12.6	10.2	8.1	6.3	4.5	2.6	0.8
92.5°	22.1	21.0	19.2	17.4	15.7	13.9	13.2	13.7	14.2	14.8	15.2
95°	26.7	25.4	23.4	21.4	19.4	17.4	20.1	27.6	35.1	42.5	50.0
97.5°	27.8	26.3	39.5	52.6	65.7	78.8	87.0	90.3	93.7	97.0	100.4
100°	28.5	27.0	55.4	83.8	112.2	140.6	153.0	149.3	145.7	142.0	138.4
102.5°	49.4	53.9	84.9	115.9	146.9	177.9	192.1	189.5	186.9	184.3	181.6
105°	147.2	179.4	195.8	212.1	228.4	244.8	252.0	250.1	248.0	246.1	244.0
107.5°	305.1	328.7	326.1	323.5	321.0	318.4	316.3	314.7	313.1	311.4	309.9
110°	363.3	369.3	367.3	365.3	363.3	361.3	359.5	358.2	356.7	355.2	353.8



TEST NUMBER: P332438-930

CATALOG NUMBER: S123RDIW-S775D1030U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	410.7	410.6	408.6	406.6	404.6	402.6	401.0	399.7	398.3	397.0	395.7
115°	471.9	470.0	468.4	466.8	465.1	463.5	462.1	461.1	459.9	458.9	457.8
117.5°	529.1	527.7	526.8	526.0	525.2	524.3	523.3	521.9	520.6	519.2	517.9
120°	566.5	565.0	564.5	563.9	563.4	562.9	561.7	560.1	558.5	556.8	555.2
122.5°	603.4	602.3	601.7	601.0	600.3	599.6	598.6	597.2	595.9	594.5	593.2
125°	655.5	655.1	654.4	653.6	652.9	652.2	651.1	649.6	648.2	646.8	645.3
127.5°	706.8	706.2	705.3	704.5	703.6	702.7	701.6	700.1	698.6	697.2	695.7
130°	737.8	737.0	736.3	735.6	734.8	734.1	733.0	731.6	730.1	728.6	727.2
132.5°	767.2	766.5	765.9	765.3	764.8	764.2	763.1	761.7	760.2	758.8	757.3
135°	812.0	811.5	810.8	810.1	809.3	808.6	807.7	806.6	805.5	804.5	803.3
137.5°	851.5	850.7	850.3	849.9	849.5	849.1	848.2	846.8	845.4	844.0	842.6
140°	876.9	876.2	875.6	875.1	874.6	874.0	873.2	872.1	871.1	869.9	868.9
142.5°	901.1	900.4	899.9	899.4	898.8	898.3	897.5	896.3	895.3	894.1	893.1
145°	934.7	934.3	934.0	933.6	933.3	932.9	932.1	930.8	929.5	928.2	927.0
147.5°	964.7	964.3	963.9	963.6	963.2	962.9	962.3	961.4	960.6	959.8	959.0
150°	983.0	982.7	982.3	981.9	981.5	981.2	980.7	980.2	979.7	979.1	978.6
152.5°	999.1	998.4	998.2	997.9	997.8	997.5	997.3	997.0	996.8	996.5	996.3
155°	1021.2	1020.3	1020.2	1019.9	1019.8	1019.6	1019.7	1020.1	1020.4	1020.8	1021.2
157.5°	1040.6	1039.5	1039.7	1039.8	1040.1	1040.2	1040.3	1040.4	1040.4	1040.5	1040.5
160°	1051.7	1050.7	1050.8	1051.0	1051.2	1051.3	1051.6	1051.7	1051.9	1052.1	1052.3
162.5°	1061.7	1060.5	1060.6	1060.9	1061.0	1061.2	1061.5	1062.0	1062.5	1062.9	1063.4
165°	1075.1	1073.6	1073.7	1073.9	1074.1	1074.3	1074.6	1075.2	1075.8	1076.3	1076.8
167.5°	1085.5	1084.0	1084.0	1084.0	1084.0	1084.0	1084.4	1085.2	1085.9	1086.6	1087.3
170°	1091.4	1090.0	1090.0	1090.0	1090.0	1090.0	1090.3	1091.0	1091.8	1092.5	1093.2
172.5°	1095.4	1093.9	1093.7	1093.6	1093.4	1093.3	1093.6	1094.5	1095.4	1096.3	1097.1
175°	1100.2	1098.9	1098.8	1098.6	1098.4	1098.2	1098.6	1099.5	1100.4	1101.3	1102.2
177.5°	1102.1	1100.9	1100.7	1100.7	1100.5	1100.3	1100.7	1101.4	1102.1	1102.8	1103.5
180°	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2



TEST NUMBER: P332438-930

CATALOG NUMBER: S123RDIW-S775D1030U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1
2.5°	1002.6	1006.3	1011.1	1018.3	1023.8	1028.5	1029.6	1030.9	1034.4	1040.2	1044.6
5°	1009.1	1018.9	1034.7	1050.0	1066.7	1080.4	1093.2	1102.1	1110.7	1128.6	1143.1
7.5°	1007.1	1028.9	1053.6	1081.2	1109.1	1136.2	1161.3	1183.7	1206.1	1232.2	1262.0
10°	1005.7	1031.3	1064.5	1100.0	1138.8	1176.8	1213.6	1242.1	1275.5	1305.3	1343.3
12.5°	999.1	1036.1	1075.9	1121.2	1168.9	1212.7	1261.0	1300.6	1338.6	1381.8	1426.0
15°	990.8	1035.5	1085.9	1146.1	1218.6	1271.6	1321.1	1389.8	1436.8	1483.8	1546.9
17.5°	975.3	1030.0	1092.9	1171.1	1231.7	1302.8	1377.3	1431.6	1494.9	1561.0	1618.2
20°	963.0	1026.5	1097.0	1173.9	1251.1	1328.4	1400.5	1465.3	1530.7	1607.1	1654.1
22.5°	950.7	1013.6	1086.8	1168.4	1251.4	1332.8	1414.5	1490.6	1564.2	1641.3	1701.2
25°	924.5	999.2	1078.6	1161.9	1243.8	1333.5	1430.8	1515.7	1606.6	1686.0	1742.9
27.5°	898.1	966.5	1045.6	1130.0	1221.2	1327.1	1441.5	1538.1	1629.2	1686.0	1703.9
30°	874.2	946.7	1019.3	1105.1	1203.7	1321.9	1443.6	1554.1	1628.9	1653.6	1635.2
32.5°	849.9	915.7	987.6	1075.4	1180.1	1309.3	1446.3	1544.6	1589.6	1570.7	1495.9
35°	807.1	866.5	936.0	1024.0	1144.4	1302.4	1435.1	1501.6	1490.5	1383.8	1243.0
37.5°	761.4	809.8	874.2	966.1	1107.3	1274.6	1386.6	1396.4	1300.3	1136.5	973.8
40°	725.2	768.7	834.9	931.0	1078.6	1247.2	1337.7	1298.0	1149.1	966.8	831.1
42.5°	690.1	726.8	790.5	894.1	1051.3	1210.1	1265.0	1178.5	1006.7	834.3	710.9
45°	630.5	665.0	729.0	835.4	995.4	1138.8	1131.6	981.3	809.3	670.6	568.1
47.5°	574.0	604.1	664.2	772.7	929.8	1032.1	964.3	804.4	658.4	547.1	474.1
50°	534.0	563.9	623.6	730.8	877.2	951.9	855.0	700.9	567.3	475.1	417.0
52.5°	495.8	525.0	579.6	684.0	813.7	858.3	754.2	611.4	500.0	420.4	370.6
55°	442.2	464.4	513.5	613.3	710.3	720.6	615.1	495.5	403.8	348.3	314.1
57.5°	387.7	406.8	455.3	534.8	602.8	597.5	497.6	394.1	332.3	291.1	266.4
60°	352.1	371.0	413.6	481.9	533.1	515.2	423.5	340.2	287.2	257.0	237.3
62.5°	319.0	333.7	373.7	423.5	460.4	440.1	362.0	293.1	251.1	225.5	210.0
65°	271.1	283.0	315.0	341.0	361.5	341.9	277.0	229.2	198.9	181.0	170.3
67.5°	225.4	233.1	253.3	262.7	277.1	255.6	208.3	176.3	159.1	143.9	136.5
70°	196.8	202.4	213.0	220.7	224.5	202.4	167.3	143.8	129.3	118.6	114.0
72.5°	168.1	172.9	175.1	181.4	179.4	158.7	134.5	115.9	105.4	98.2	92.1
75°	128.5	130.6	128.5	125.9	120.3	105.8	89.2	79.8	72.2	68.7	66.6
77.5°	93.7	92.9	90.1	86.0	76.6	67.4	58.5	55.4	52.0	50.2	49.4
80°	72.2	70.4	67.8	61.5	53.3	47.0	44.8	42.7	41.4	39.3	38.8
82.5°	53.7	52.7	48.4	43.0	37.3	34.3	32.5	31.8	30.5	29.4	29.3
85°	28.6	27.3	22.6	19.6	18.8	17.9	17.5	17.5	15.8	15.3	15.3
87.5°	9.8	8.1	8.1	7.4	7.8	7.7	8.5	8.2	8.4	8.9	8.3
90°	2.6	4.5	6.3	8.1	10.2	12.6	14.9	17.3	19.6	20.4	21.1
92.5°	14.8	14.2	13.7	13.2	13.9	15.7	17.4	19.2	21.0	22.1	23.3
95°	42.5	35.1	27.6	20.1	17.4	19.4	21.4	23.4	25.4	26.7	28.0
97.5°	97.0	93.7	90.3	87.0	78.8	65.7	52.6	39.5	26.3	27.8	29.3
100°	142.0	145.7	149.3	153.0	140.6	112.2	83.8	55.4	27.0	28.5	29.9
102.5°	184.3	186.9	189.5	192.1	177.9	146.9	115.9	84.9	53.9	49.4	44.8
105°	246.1	248.0	250.1	252.0	244.8	228.4	212.1	195.8	179.4	147.2	115.0
107.5°	311.4	313.1	314.7	316.3	318.4	321.0	323.5	326.1	328.7	305.1	281.4
110°	355.2	356.7	358.2	359.5	361.3	363.3	365.3	367.3	369.3	363.3	357.3



TEST NUMBER: P332438-930

CATALOG NUMBER: S123RDIW-S775D1030U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	397.0	398.3	399.7	401.0	402.6	404.6	406.6	408.6	410.6	410.7	410.8
115°	458.9	459.9	461.1	462.1	463.5	465.1	466.8	468.4	470.0	471.9	473.7
117.5°	519.2	520.6	521.9	523.3	524.3	525.2	526.0	526.8	527.7	529.1	530.6
120°	556.8	558.5	560.1	561.7	562.9	563.4	563.9	564.5	565.0	566.5	567.9
122.5°	594.5	595.9	597.2	598.6	599.6	600.3	601.0	601.7	602.3	603.4	604.4
125°	646.8	648.2	649.6	651.1	652.2	652.9	653.6	654.4	655.1	655.5	655.8
127.5°	697.2	698.6	700.1	701.6	702.7	703.6	704.5	705.3	706.2	706.8	707.4
130°	728.6	730.1	731.6	733.0	734.1	734.8	735.6	736.3	737.0	737.8	738.5
132.5°	758.8	760.2	761.7	763.1	764.2	764.8	765.3	765.9	766.5	767.2	767.9
135°	804.5	805.5	806.6	807.7	808.6	809.3	810.1	810.8	811.5	812.0	812.6
137.5°	844.0	845.4	846.8	848.2	849.1	849.5	849.9	850.3	850.7	851.5	852.4
140°	869.9	871.1	872.1	873.2	874.0	874.6	875.1	875.6	876.2	876.9	877.7
142.5°	894.1	895.3	896.3	897.5	898.3	898.8	899.4	899.9	900.4	901.1	901.6
145°	928.2	929.5	930.8	932.1	932.9	933.3	933.6	934.0	934.3	934.7	935.1
147.5°	959.8	960.6	961.4	962.3	962.9	963.2	963.6	963.9	964.3	964.7	965.1
150°	979.1	979.7	980.2	980.7	981.2	981.5	981.9	982.3	982.7	983.0	983.4
152.5°	996.5	996.8	997.0	997.3	997.5	997.8	997.9	998.2	998.4	999.1	999.7
155°	1020.8	1020.4	1020.1	1019.7	1019.6	1019.8	1019.9	1020.2	1020.3	1021.2	1022.1
157.5°	1040.5	1040.4	1040.4	1040.3	1040.2	1040.1	1039.8	1039.7	1039.5	1040.6	1041.7
160°	1052.1	1051.9	1051.7	1051.6	1051.3	1051.2	1051.0	1050.8	1050.7	1051.7	1052.8
162.5°	1062.9	1062.5	1062.0	1061.5	1061.2	1061.0	1060.9	1060.6	1060.5	1061.7	1062.9
165°	1076.3	1075.8	1075.2	1074.6	1074.3	1074.1	1073.9	1073.7	1073.6	1075.1	1076.4
167.5°	1086.6	1085.9	1085.2	1084.4	1084.0	1084.0	1084.0	1084.0	1084.0	1085.5	1087.0
170°	1092.5	1091.8	1091.0	1090.3	1090.0	1090.0	1090.0	1090.0	1090.0	1091.4	1092.8
172.5°	1096.3	1095.4	1094.5	1093.6	1093.3	1093.4	1093.6	1093.7	1093.9	1095.4	1096.8
175°	1101.3	1100.4	1099.5	1098.6	1098.2	1098.4	1098.6	1098.8	1098.9	1100.2	1101.5
177.5°	1102.8	1102.1	1101.4	1100.7	1100.3	1100.5	1100.7	1100.7	1100.9	1102.1	1103.3
180°	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2



TEST NUMBER: P332438-930

CATALOG NUMBER: S123RDIW-S775D1030U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	997.1	997.1	997.1	997.1	997.1	997.1	997.1
2.5°	1051.7	1051.7	1053.1	1058.3	1058.9	1063.4	1062.0
5°	1155.9	1164.0	1167.0	1179.8	1187.5	1190.9	1184.1
7.5°	1283.3	1306.2	1317.0	1330.4	1342.3	1345.9	1336.5
10°	1376.1	1400.0	1420.2	1432.5	1444.1	1451.7	1461.5
12.5°	1466.0	1495.3	1514.4	1531.9	1543.8	1553.5	1555.1
15°	1563.6	1607.9	1641.7	1666.4	1678.8	1685.2	1682.6
17.5°	1662.0	1703.2	1727.1	1752.4	1769.5	1770.4	1770.9
20°	1717.7	1757.8	1785.5	1804.3	1823.5	1822.7	1826.9
22.5°	1754.9	1786.5	1807.7	1821.4	1828.0	1824.7	1825.5
25°	1772.3	1781.7	1777.8	1756.1	1750.5	1730.5	1733.9
27.5°	1682.5	1638.1	1592.1	1533.1	1486.5	1449.3	1451.2
30°	1560.6	1482.1	1392.4	1317.3	1249.9	1231.0	1190.9
32.5°	1390.2	1272.4	1167.3	1097.3	1039.4	1023.8	988.8
35°	1101.3	986.8	878.9	814.0	788.4	752.5	752.1
37.5°	856.0	755.3	698.1	649.5	623.9	602.3	600.1
40°	720.1	641.6	598.4	563.5	538.3	522.0	518.2
42.5°	625.2	561.7	521.3	499.6	480.2	471.8	465.6
45°	510.5	467.8	439.7	420.0	411.1	404.6	401.2
47.5°	427.1	398.4	379.2	366.2	358.9	352.1	353.9
50°	381.6	358.2	344.1	331.7	326.1	321.4	321.9
52.5°	345.0	324.0	312.6	303.7	296.8	293.4	291.8
55°	292.9	279.6	268.1	261.6	257.8	253.2	251.8
57.5°	249.8	239.5	230.2	222.9	221.9	217.4	218.0
60°	221.1	212.5	204.9	201.1	198.0	194.2	195.5
62.5°	197.5	190.4	183.4	180.2	177.2	174.4	175.0
65°	161.8	154.9	150.7	149.0	147.7	146.4	145.1
67.5°	128.9	124.7	122.1	118.4	115.8	115.4	114.1
70°	108.4	102.9	98.2	93.5	92.2	91.8	92.2
72.5°	86.9	83.4	82.1	79.8	79.6	78.4	79.2
75°	65.3	64.0	63.2	61.5	61.5	61.5	61.5
77.5°	48.2	47.4	46.9	46.6	46.1	45.5	45.4
80°	37.6	37.1	36.3	36.3	35.9	36.3	35.9
82.5°	28.4	28.3	27.4	27.4	27.0	26.7	27.0
85°	14.5	14.1	14.9	14.1	14.5	13.7	14.5
87.5°	8.5	8.6	8.4	8.5	8.2	9.0	8.3
90°	21.9	22.6	23.1	23.5	23.8	24.2	24.5
92.5°	24.5	25.6	26.3	26.5	26.7	27.0	27.1
95°	29.2	30.5	31.1	31.1	31.1	31.1	31.1
97.5°	30.7	32.2	33.0	33.2	33.3	33.6	33.8
100°	31.4	32.9	33.7	33.8	34.0	34.2	34.4
102.5°	40.4	35.8	33.8	34.1	34.4	34.7	35.1
105°	82.7	50.5	34.6	35.0	35.3	35.6	36.0
107.5°	257.9	234.2	210.3	186.0	161.8	137.5	113.2
110°	351.3	345.3	329.3	303.3	277.2	251.2	225.2



TEST NUMBER: P332438-930

CATALOG NUMBER: S123RDIW-S775D1030U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	410.9	411.0	408.3	402.8	397.4	391.8	386.4
115°	475.5	477.4	478.6	479.3	480.0	480.8	481.5
117.5°	532.1	533.5	534.3	534.4	534.6	534.8	534.9
120°	569.4	570.9	571.6	571.6	571.6	571.6	571.6
122.5°	605.4	606.4	607.1	607.2	607.3	607.5	607.6
125°	656.2	656.6	657.0	657.3	657.6	658.0	658.4
127.5°	707.9	708.6	708.7	708.3	707.9	707.6	707.2
130°	739.2	739.9	740.1	739.7	739.4	739.0	738.7
132.5°	768.7	769.4	769.5	769.0	768.5	768.0	767.4
135°	813.2	813.7	813.7	813.2	812.6	812.0	811.5
137.5°	853.3	854.2	854.4	854.0	853.7	853.3	853.0
140°	878.4	879.1	879.3	879.0	878.6	878.2	877.8
142.5°	902.2	902.8	902.8	902.3	901.8	901.3	900.7
145°	935.5	935.8	936.0	936.0	936.0	936.0	936.0
147.5°	965.4	965.8	965.6	964.7	963.8	963.0	962.2
150°	983.7	984.1	984.1	983.5	982.9	982.4	981.9
152.5°	1000.4	1001.0	1000.9	1000.0	999.2	998.4	997.6
155°	1023.0	1024.0	1023.9	1022.8	1021.7	1020.6	1019.5
157.5°	1042.8	1043.8	1043.7	1042.3	1040.9	1039.4	1038.0
160°	1053.9	1055.0	1054.9	1053.6	1052.4	1051.1	1049.8
162.5°	1064.2	1065.4	1065.4	1064.4	1063.2	1062.1	1060.9
165°	1077.9	1079.4	1079.5	1078.2	1076.9	1075.6	1074.4
167.5°	1088.4	1089.9	1089.9	1088.4	1087.0	1085.5	1084.0
170°	1094.3	1095.8	1095.8	1094.3	1092.8	1091.4	1090.0
172.5°	1098.2	1099.7	1099.6	1098.0	1096.4	1094.8	1093.2
175°	1102.8	1104.1	1104.0	1102.5	1101.1	1099.6	1098.1
177.5°	1104.4	1105.5	1105.5	1104.0	1102.5	1101.1	1099.6
180°	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2

(END OF REPORT)