

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: P332181-940

Luminaire Tested: **S123DIW-S1000D460U940-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332181-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIW-S1000D460U940-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 460 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5206.9 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Direct

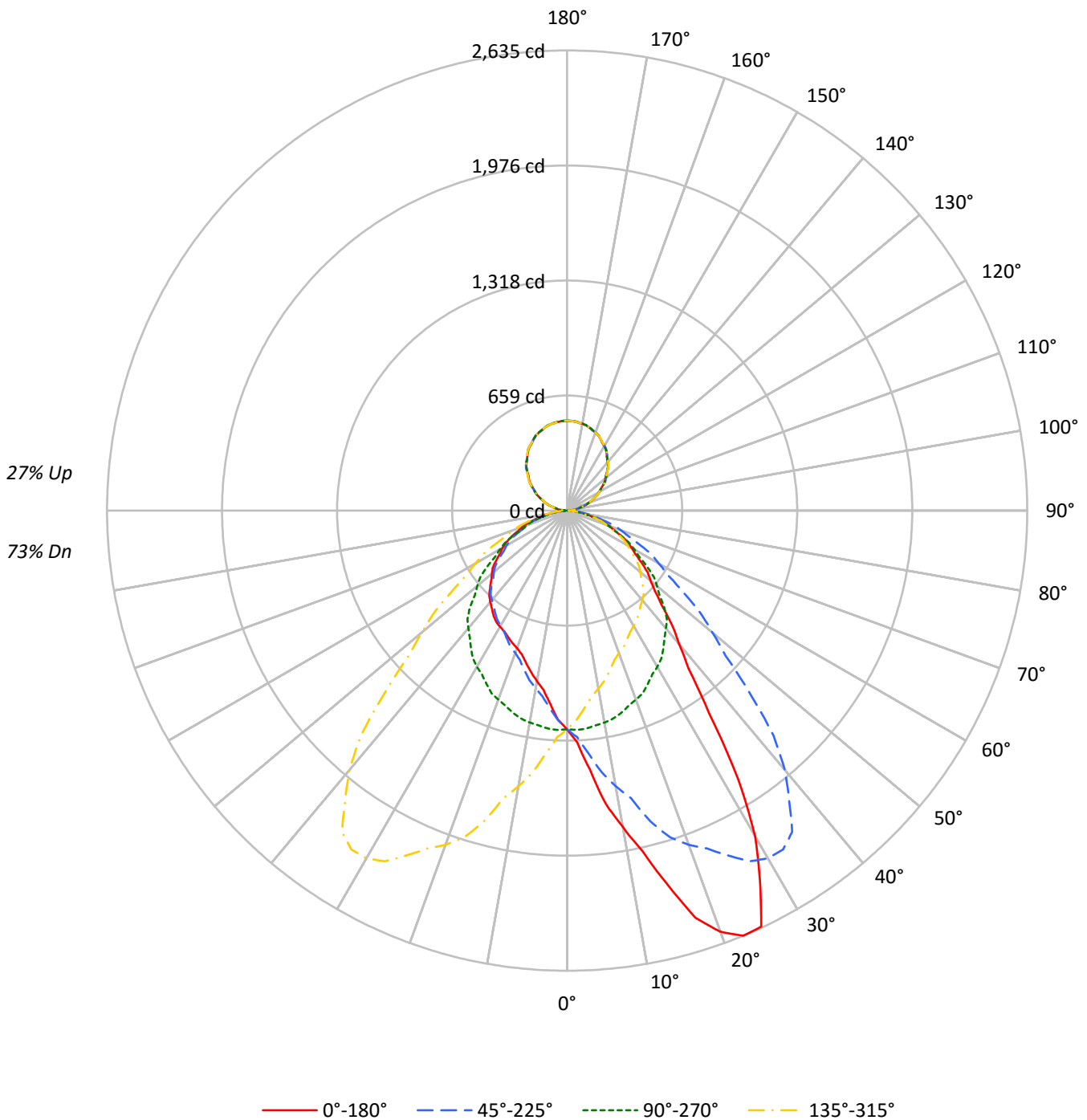
Input Watts (W): 46.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332181-940

CATALOG NUMBER: S123DIW-S1000D460U940-4F0-1E-UDD-A1

Luminous Intensity Polar Plot





TEST NUMBER: P332181-940

CATALOG NUMBER: S123DIW-S1000D460U940-4F0-1E-UDD-A1

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	113	113	113	113	107	107	107	107	96	96	96	86	86	86	77	77	77	73
1	103	99	95	92	98	94	91	88	85	82	80	76	74	73	69	67	66	62
2	94	87	81	75	89	83	77	72	75	70	67	68	64	61	61	58	56	53
3	86	77	69	63	82	73	66	61	66	61	57	60	56	52	54	51	48	45
4	79	68	60	54	75	65	58	52	59	53	49	54	49	45	49	45	42	39
5	73	61	53	47	69	58	51	45	53	47	42	48	43	39	44	40	37	34
6	67	55	47	41	64	53	45	39	48	42	37	44	39	35	40	36	32	30
7	62	50	42	36	59	48	40	35	44	37	33	40	35	31	37	32	29	26
8	58	45	37	32	55	44	36	31	40	34	29	37	31	28	34	29	26	24
9	54	42	34	29	51	40	33	28	37	31	26	34	29	25	31	27	23	21
10	51	38	31	26	48	37	30	25	34	28	24	31	26	23	29	24	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13481	13481	13481	13481
5°	16077	13539	11998	13539
10°	20122	13470	10837	13470
15°	24681	13362	10089	13362
20°	29402	13192	9606	13192
25°	31220	12986	9499	12986
30°	26759	12837	9548	12837
35°	18611	12623	9648	12623
40°	14018	12372	9618	12372
45°	11639	12000	9496	12000
50°	10426	11238	9409	11238
55°	9747	10419	9293	10419
60°	9143	9563	9197	9563
65°	8593	8716	8904	8716
70°	8060	7755	8478	7755
75°	7216	6791	7773	6791
80°	6316	5566	6695	5566
85°	4940	4039	4495	4039



TEST NUMBER: P332181-940

CATALOG NUMBER: S123DIW-S1000D460U940-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.4	2.4
10°-20°	395.6	7.6
20°-30°	664.0	12.8
30°-40°	751.8	14.4
40°-50°	674.2	12.9
50°-60°	544.1	10.4
60°-70°	379.1	7.3
70°-80°	199.3	3.8
80°-90°	50.3	1.0
90°-100°	33.5	0.6
100°-110°	100.3	1.9
110°-120°	170.6	3.3
120°-130°	224.4	4.3
130°-140°	252.2	4.8
140°-150°	247.9	4.8
150°-160°	208.7	4.0
160°-170°	138.9	2.7
170°-180°	48.7	0.9
0°-30°	1182.9	22.7
0°-40°	1934.7	37.2
0°-60°	3153.0	60.6
0°-90°	3781.6	72.6
90°-120°	304.4	5.8
90°-150°	1029.0	19.8
90°-180°	1425.0	27.4
0°-180°	5206.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1252	1252	1252	1252	1252	
5°	1488	1253	1110	1253	1488	154
15°	2215	1199	905	1199	2215	639
25°	2629	1093	800	1093	2629	1153
35°	1416	961	734	961	1416	920
45°	765	788	624	788	765	605
55°	519	555	495	555	519	466
65°	337	342	350	342	337	336
75°	174	163	187	163	174	186
85°	40	33	36	33	40	48
90°	12	0	12	0	12	8
95°	32	24	32	24	32	32
105°	96	91	96	91	96	102
115°	172	172	172	172	172	170
125°	248	251	248	251	248	222
135°	326	326	326	326	326	250
145°	396	396	396	396	396	247
155°	452	453	452	453	452	208
165°	492	493	492	493	492	139
175°	511	513	511	513	511	49
180°	514	514	514	514	514	



TEST NUMBER: P332181-940

CATALOG NUMBER: S123DIW-S1000D460U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4
2.5°	1329.1	1328.2	1325.7	1327.7	1323.8	1318.5	1317.9	1313.1	1299.0	1298.1	1294.2
5°	1487.9	1483.0	1482.4	1481.8	1473.3	1461.8	1439.9	1438.2	1409.0	1394.5	1376.8
7.5°	1693.4	1696.0	1687.1	1679.4	1653.4	1636.3	1612.8	1582.9	1547.1	1510.8	1486.7
10°	1841.0	1861.1	1836.2	1819.2	1803.4	1773.7	1739.1	1696.0	1653.0	1602.6	1564.3
12.5°	1999.3	2009.1	2004.1	1988.2	1963.6	1918.3	1857.1	1809.6	1770.0	1686.0	1652.2
15°	2214.8	2251.8	2228.2	2173.5	2174.8	2131.7	2051.6	1963.6	1916.9	1843.4	1743.4
17.5°	2444.4	2449.1	2439.0	2393.4	2363.1	2303.9	2230.0	2145.6	2051.0	1962.1	1856.0
20°	2566.8	2563.1	2541.9	2518.2	2466.0	2419.9	2339.2	2245.1	2123.8	2036.4	1920.6
22.5°	2634.7	2628.7	2618.6	2598.8	2555.4	2505.9	2433.4	2330.6	2215.1	2094.7	1960.8
25°	2628.7	2636.5	2637.8	2632.3	2617.2	2587.4	2530.3	2448.5	2333.2	2178.4	2038.9
27.5°	2390.8	2402.0	2434.4	2463.2	2495.3	2528.1	2523.7	2483.1	2397.7	2264.1	2093.5
30°	2152.9	2128.7	2188.7	2264.6	2316.1	2407.2	2458.2	2461.2	2413.2	2298.6	2132.3
32.5°	1822.8	1849.5	1876.1	1969.4	2082.1	2184.3	2285.8	2367.5	2376.9	2300.5	2155.1
35°	1416.3	1449.7	1498.2	1546.8	1668.1	1772.5	1950.9	2106.2	2230.0	2246.4	2157.1
37.5°	1141.3	1157.8	1188.5	1237.2	1316.5	1440.3	1578.3	1774.7	1954.0	2087.4	2093.2
40°	997.6	1002.5	1037.1	1074.1	1138.4	1240.3	1364.7	1538.2	1753.0	1939.4	2017.0
42.5°	889.8	900.4	915.2	950.7	1001.9	1078.6	1194.3	1337.7	1534.6	1749.0	1900.9
45°	764.6	776.7	785.8	809.5	845.9	897.4	978.2	1109.2	1259.1	1480.6	1685.1
47.5°	681.8	682.8	689.6	707.4	732.2	770.9	828.0	912.1	1049.7	1229.4	1439.3
50°	622.6	632.3	634.7	648.6	668.1	696.6	744.0	815.6	928.4	1086.2	1279.2
52.5°	580.9	583.7	590.6	600.7	617.6	639.8	680.8	736.9	825.5	959.9	1137.4
55°	519.4	519.4	526.1	534.0	543.7	563.7	591.0	632.3	699.6	804.1	950.8
57.5°	462.6	465.7	470.4	472.8	481.1	494.3	517.1	548.4	598.7	679.0	795.8
60°	424.7	430.3	429.6	434.4	441.8	452.1	471.4	497.0	541.9	606.2	704.5
62.5°	391.7	391.4	391.3	397.1	404.4	414.2	426.9	448.9	487.1	544.0	627.8
65°	337.4	336.2	340.5	344.0	346.5	353.7	363.5	382.9	408.4	450.8	515.8
67.5°	289.1	285.5	287.8	289.1	293.2	298.9	308.0	320.0	340.3	374.4	423.3
70°	256.1	253.1	252.4	253.6	257.3	261.5	268.2	279.7	298.5	325.8	361.7
72.5°	222.1	220.0	219.9	222.6	224.3	227.0	231.8	242.4	257.3	277.8	311.2
75°	173.5	173.5	173.5	174.2	175.9	178.4	182.0	187.5	199.0	213.6	236.0
77.5°	130.1	130.0	129.2	129.1	131.8	132.9	133.8	138.8	145.3	155.1	171.5
80°	101.9	98.9	100.1	101.9	103.2	103.8	105.6	106.8	112.3	117.7	129.2
82.5°	75.7	73.2	73.4	76.2	76.4	77.0	78.9	80.6	82.7	87.7	93.8
85°	40.0	40.0	40.7	40.7	41.3	40.7	42.4	43.1	43.1	46.1	49.8
87.5°	17.0	16.0	16.4	16.9	16.3	16.8	17.2	17.7	18.0	18.5	18.7
90°	12.1	11.9	11.8	11.6	11.4	11.1	10.8	10.4	10.1	9.7	8.6
92.5°	16.3	16.4	16.5	16.7	16.8	16.7	16.4	16.1	15.8	15.5	14.9
95°	31.5	31.5	31.5	31.5	31.5	31.3	30.9	30.6	30.2	29.9	29.2
97.5°	48.5	48.5	48.6	48.6	48.6	48.4	48.1	47.6	47.2	46.8	46.3
100°	61.4	61.3	61.1	60.9	60.7	60.5	60.2	59.9	59.7	59.4	58.9
102.5°	74.6	74.7	74.7	74.8	74.8	74.7	74.5	74.2	73.9	73.7	73.0
105°	96.2	96.0	95.9	95.7	95.4	95.3	95.3	95.3	95.3	95.3	94.5
107.5°	118.6	118.7	118.8	118.9	119.0	118.9	118.6	118.3	118.1	117.8	117.4
110°	133.8	133.9	134.1	134.3	134.5	134.4	134.0	133.7	133.3	133.0	132.8



TEST NUMBER: P332181-940

CATALOG NUMBER: S123DIW-S1000D460U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	149.9	150.0	150.0	150.0	150.1	149.9	149.5	149.0	148.6	148.1	148.1
115°	172.2	172.3	172.4	172.5	172.5	172.5	172.5	172.4	172.3	172.2	172.4
117.5°	194.7	194.9	195.2	195.5	195.7	195.8	195.8	195.9	195.9	195.9	196.2
120°	210.5	210.7	210.9	211.1	211.2	211.4	211.5	211.6	211.7	211.8	212.2
122.5°	225.7	226.0	226.2	226.5	226.8	226.9	227.2	227.5	227.7	227.9	228.2
125°	248.5	248.9	249.2	249.6	249.9	250.3	250.7	251.0	251.4	251.7	251.9
127.5°	271.3	271.6	272.1	272.5	272.9	273.3	273.8	274.4	274.8	275.4	275.5
130°	286.1	286.8	287.4	288.0	288.6	289.1	289.4	289.8	290.2	290.5	290.8
132.5°	301.6	302.1	302.6	303.1	303.5	304.0	304.4	304.9	305.3	305.8	305.9
135°	325.7	325.9	326.1	326.3	326.5	326.7	327.1	327.4	327.8	328.1	328.2
137.5°	347.0	347.3	347.7	347.9	348.3	348.7	349.1	349.5	349.8	350.2	350.0
140°	360.9	361.5	362.1	362.7	363.4	363.7	363.8	363.9	364.0	364.1	364.0
142.5°	375.1	375.6	376.0	376.6	377.0	377.3	377.4	377.5	377.6	377.6	377.6
145°	395.7	396.0	396.4	396.7	397.1	397.3	397.3	397.4	397.5	397.6	397.3
147.5°	413.8	414.4	414.9	415.5	416.1	416.3	416.3	416.3	416.3	416.3	416.1
150°	425.5	426.1	426.6	427.1	427.7	427.9	427.9	427.9	427.9	427.9	427.8
152.5°	436.8	437.3	437.7	438.3	438.7	438.9	438.7	438.5	438.5	438.3	438.2
155°	452.2	452.8	453.4	454.1	454.7	454.9	454.5	454.1	453.8	453.4	453.3
157.5°	466.2	466.6	467.2	467.7	468.1	468.2	467.9	467.5	467.1	466.7	466.6
160°	475.2	475.5	475.9	476.3	476.6	476.6	476.2	475.7	475.3	474.8	474.8
162.5°	482.0	482.6	483.1	483.8	484.3	484.4	483.9	483.5	483.0	482.6	482.5
165°	491.8	492.4	493.0	493.7	494.3	494.4	493.8	493.3	492.8	492.2	492.2
167.5°	500.1	500.7	501.2	501.8	502.3	502.3	501.8	501.2	500.7	500.1	500.1
170°	504.4	505.0	505.6	506.2	506.8	506.8	506.2	505.6	505.0	504.4	504.4
172.5°	507.6	508.2	508.8	509.4	510.1	510.1	509.5	509.0	508.5	507.8	507.8
175°	511.2	511.8	512.5	513.1	513.7	513.7	513.2	512.6	512.1	511.6	511.6
177.5°	513.1	513.6	514.2	514.6	515.1	515.1	514.8	514.3	513.9	513.4	513.4
180°	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4



TEST NUMBER: P332181-940

CATALOG NUMBER: S123DIW-S1000D460U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4
2.5°	1291.3	1287.4	1283.5	1276.8	1270.9	1262.7	1260.2	1257.3	1248.6	1240.8	1234.9
5°	1370.1	1355.6	1334.4	1314.9	1299.1	1277.9	1265.8	1253.0	1234.8	1218.4	1205.1
7.5°	1452.7	1424.1	1391.1	1355.3	1322.1	1290.0	1264.2	1241.2	1215.7	1191.5	1172.7
10°	1518.2	1476.9	1430.8	1381.1	1338.6	1297.4	1262.8	1232.4	1199.6	1171.1	1147.5
12.5°	1593.0	1531.8	1468.2	1407.7	1357.5	1300.3	1258.4	1219.8	1182.7	1148.3	1121.8
15°	1681.4	1603.7	1528.6	1445.4	1369.0	1297.4	1247.6	1199.1	1155.9	1120.8	1086.8
17.5°	1762.0	1674.0	1574.9	1473.8	1381.5	1296.6	1227.0	1172.1	1118.2	1075.1	1041.3
20°	1807.7	1707.5	1595.3	1490.3	1388.4	1293.7	1217.3	1151.7	1093.4	1047.9	1009.7
22.5°	1847.0	1729.8	1613.7	1501.5	1387.9	1285.9	1199.3	1131.8	1068.7	1024.1	983.5
25°	1887.8	1747.6	1631.1	1499.4	1372.6	1267.0	1169.9	1093.4	1030.4	978.2	936.3
27.5°	1922.7	1746.4	1608.1	1466.5	1348.5	1242.7	1139.1	1057.0	990.1	933.4	890.9
30°	1946.0	1748.8	1584.4	1444.2	1325.3	1216.0	1115.3	1032.8	962.4	904.7	864.7
32.5°	1960.6	1747.3	1562.5	1413.1	1288.3	1191.8	1089.6	1004.2	931.8	875.1	836.5
35°	1969.1	1736.7	1524.9	1348.9	1228.8	1134.7	1049.2	960.6	884.8	832.0	788.3
37.5°	1952.0	1714.2	1481.2	1287.0	1155.5	1062.8	990.9	915.4	842.8	784.7	747.1
40°	1925.4	1699.7	1447.2	1243.3	1105.0	1015.7	954.5	880.5	808.9	753.7	718.5
42.5°	1874.4	1670.0	1409.9	1194.8	1052.6	963.3	907.0	845.1	777.3	725.5	690.3
45°	1750.0	1605.6	1353.8	1122.0	975.1	882.9	833.1	788.3	726.9	676.5	646.2
47.5°	1577.4	1508.6	1272.7	1045.2	894.3	805.6	753.9	717.7	673.0	632.3	603.2
50°	1457.5	1429.1	1217.8	992.7	840.4	753.7	703.9	671.1	639.0	598.3	571.6
52.5°	1319.2	1336.8	1153.8	938.3	785.6	700.3	653.4	627.4	598.2	564.8	541.5
55°	1124.4	1188.1	1043.1	847.1	703.9	622.6	578.3	555.2	538.2	513.4	493.3
57.5°	942.0	1023.1	923.5	753.0	623.7	553.5	511.0	485.9	475.0	462.0	446.2
60°	833.7	913.8	838.0	689.9	569.8	503.0	465.4	444.2	433.3	424.2	410.8
62.5°	737.2	818.2	754.5	625.9	516.8	455.0	422.2	401.4	393.0	388.3	376.8
65°	604.4	674.1	631.7	526.1	441.1	386.6	356.8	342.2	334.4	332.5	325.2
67.5°	491.9	545.0	514.1	436.4	369.5	322.4	297.1	284.7	278.7	278.0	272.6
70°	418.1	467.9	444.2	373.8	316.1	279.1	257.3	246.4	242.7	242.1	239.1
72.5°	360.8	395.5	376.7	318.0	273.4	239.8	223.8	212.4	208.2	209.1	207.1
75°	267.0	293.1	282.1	241.5	205.7	183.9	170.5	163.3	159.6	161.4	159.0
77.5°	192.1	208.7	198.8	170.7	148.6	132.8	123.0	118.4	115.2	115.0	114.0
80°	145.0	154.7	149.3	132.2	114.0	100.8	92.8	89.8	88.0	87.4	86.8
82.5°	103.3	111.6	105.1	93.5	81.1	73.0	68.6	64.6	63.2	63.6	63.0
85°	52.2	55.2	52.8	45.5	40.7	37.0	34.6	32.7	31.6	32.2	30.9
87.5°	19.4	19.7	18.0	15.9	14.7	13.0	12.8	11.8	11.0	11.1	10.8
90°	7.4	6.2	5.0	4.0	3.1	2.2	1.3	0.4	1.3	2.2	3.1
92.5°	14.2	13.6	12.8	12.2	11.6	11.0	10.4	9.8	10.4	11.0	11.6
95°	28.4	27.7	27.0	26.4	25.8	25.1	24.4	23.8	24.4	25.1	25.8
97.5°	45.7	45.2	44.7	44.2	43.8	43.2	42.8	42.4	42.8	43.2	43.8
100°	58.5	58.1	57.6	57.1	56.5	56.0	55.5	54.9	55.5	56.0	56.5
102.5°	72.4	71.9	71.2	70.8	70.4	70.2	69.8	69.5	69.8	70.2	70.4
105°	93.7	92.9	92.1	91.7	91.5	91.3	91.1	91.0	91.1	91.3	91.5
107.5°	117.1	116.8	116.5	116.3	116.1	116.0	115.9	115.8	115.9	116.0	116.1
110°	132.6	132.4	132.2	132.1	131.9	131.7	131.5	131.3	131.5	131.7	131.9



TEST NUMBER: P332181-940

CATALOG NUMBER: S123DIW-S1000D460U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	148.1	148.0	148.0	147.9	147.8	147.8	147.6	147.5	147.6	147.8	147.8
115°	172.5	172.7	172.9	172.8	172.5	172.3	172.0	171.7	172.0	172.3	172.5
117.5°	196.4	196.6	196.8	196.9	196.7	196.5	196.4	196.2	196.4	196.5	196.7
120°	212.7	213.1	213.6	213.5	212.9	212.4	211.9	211.3	211.9	212.4	212.9
122.5°	228.4	228.6	228.8	228.7	228.4	228.0	227.6	227.2	227.6	228.0	228.4
125°	252.1	252.3	252.4	252.4	252.2	251.9	251.6	251.4	251.6	251.9	252.2
127.5°	275.7	276.0	276.2	276.0	275.4	274.8	274.2	273.7	274.2	274.8	275.4
130°	291.1	291.3	291.6	291.4	290.7	290.0	289.3	288.6	289.3	290.0	290.7
132.5°	306.1	306.3	306.6	306.3	305.6	304.9	304.1	303.4	304.1	304.9	305.6
135°	328.3	328.4	328.5	328.2	327.7	327.2	326.6	326.1	326.6	327.2	327.7
137.5°	349.7	349.5	349.3	348.9	348.5	348.0	347.6	347.1	347.6	348.0	348.5
140°	363.9	363.8	363.7	363.5	363.0	362.6	362.1	361.7	362.1	362.6	363.0
142.5°	377.4	377.2	377.0	376.7	376.3	375.9	375.4	375.0	375.4	375.9	376.3
145°	397.1	396.8	396.5	396.4	396.2	396.0	395.8	395.7	395.8	396.0	396.2
147.5°	415.8	415.5	415.3	415.0	414.6	414.4	414.0	413.8	414.0	414.4	414.6
150°	427.6	427.4	427.2	427.0	426.9	426.7	426.5	426.3	426.5	426.7	426.9
152.5°	438.1	437.9	437.8	437.7	437.4	437.2	436.9	436.7	436.9	437.2	437.4
155°	453.3	453.2	453.1	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0
157.5°	466.6	466.5	466.5	466.5	466.5	466.7	466.8	466.9	466.8	466.7	466.5
160°	474.8	474.8	474.8	474.9	475.1	475.3	475.5	475.6	475.5	475.3	475.1
162.5°	482.4	482.3	482.3	482.4	482.6	482.9	483.1	483.4	483.1	482.9	482.6
165°	492.2	492.2	492.2	492.3	492.6	492.8	493.1	493.4	493.1	492.8	492.6
167.5°	500.0	499.9	499.8	500.0	500.3	500.7	501.1	501.4	501.1	500.7	500.3
170°	504.4	504.4	504.4	504.5	504.9	505.2	505.6	506.0	505.6	505.2	504.9
172.5°	507.8	507.8	507.8	508.0	508.5	508.8	509.2	509.5	509.2	508.8	508.5
175°	511.6	511.6	511.6	511.8	512.1	512.5	512.8	513.2	512.8	512.5	512.1
177.5°	513.4	513.4	513.4	513.6	513.9	514.2	514.4	514.8	514.4	514.2	513.9
180°	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4



TEST NUMBER: P332181-940

CATALOG NUMBER: S123DIW-S1000D460U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4
2.5°	1231.5	1228.2	1223.3	1216.0	1210.2	1201.0	1201.0	1202.5	1202.5	1201.9	1201.0
5°	1194.2	1185.1	1174.2	1161.5	1148.1	1134.7	1132.3	1127.5	1123.8	1121.3	1118.3
7.5°	1154.8	1138.6	1122.7	1104.8	1088.6	1075.1	1065.8	1058.0	1053.0	1047.7	1043.8
10°	1128.0	1108.0	1089.2	1070.4	1049.7	1033.4	1023.1	1015.7	1010.3	1005.5	1003.1
12.5°	1096.4	1073.5	1052.8	1034.9	1012.4	995.5	985.7	982.3	975.9	965.6	960.3
15°	1050.3	1029.1	1004.2	977.0	966.0	945.4	933.9	928.4	924.8	916.9	914.4
17.5°	1010.9	983.1	955.2	934.9	914.5	897.9	891.4	884.6	879.8	873.3	871.4
20°	979.4	954.5	929.0	907.1	885.9	867.7	862.3	857.4	852.6	849.5	847.1
22.5°	947.4	922.5	901.3	880.9	858.3	846.3	840.4	835.1	831.7	829.6	827.2
25°	902.3	880.5	856.8	838.6	820.4	812.5	808.9	805.8	803.4	800.4	799.8
27.5°	862.0	838.2	819.0	802.1	789.0	782.4	778.9	777.4	777.9	779.0	779.7
30°	832.0	810.1	794.3	779.7	767.6	761.5	760.9	760.9	763.4	763.9	765.2
32.5°	804.2	786.3	770.5	756.4	747.3	743.1	745.4	745.4	747.3	748.9	751.1
35°	763.9	748.1	736.0	723.9	716.0	717.8	719.1	720.2	723.3	726.9	729.4
37.5°	725.5	711.8	699.2	689.6	686.1	689.3	692.2	694.8	698.3	701.1	703.6
40°	697.9	687.5	675.4	666.9	668.1	669.9	672.3	675.4	678.4	680.2	682.7
42.5°	672.1	661.3	652.1	645.1	646.8	649.1	650.5	652.1	655.6	658.9	660.3
45°	632.9	624.4	615.9	611.6	612.9	614.1	615.3	617.2	620.2	622.6	623.2
47.5°	588.8	582.9	577.2	573.1	575.0	574.5	576.1	580.0	580.9	582.4	585.8
50°	560.7	555.2	548.6	547.3	547.3	547.3	548.0	552.8	552.8	555.2	557.7
52.5°	529.6	526.1	521.8	519.7	518.7	518.7	521.2	523.7	524.7	528.1	530.5
55°	483.7	480.0	476.4	474.5	473.3	474.5	479.4	480.5	483.7	485.4	487.2
57.5°	435.7	432.9	430.0	429.0	428.7	430.3	433.0	436.7	437.4	443.0	445.8
60°	404.1	399.8	397.4	397.4	396.3	401.7	400.5	406.5	407.8	411.4	415.6
62.5°	371.6	365.9	364.9	364.9	366.7	368.2	369.9	372.6	375.8	380.3	383.6
65°	319.1	316.1	320.4	319.8	318.6	322.2	322.2	325.2	328.9	333.1	339.8
67.5°	269.6	268.0	268.3	268.3	270.2	272.2	273.9	276.6	281.0	285.4	289.8
70°	236.0	237.9	234.9	237.3	239.1	239.7	240.9	244.5	249.4	252.4	257.3
72.5°	203.5	203.4	203.8	204.7	206.5	207.7	208.8	213.0	218.3	220.9	224.8
75°	156.6	156.0	157.7	157.7	160.8	162.0	163.3	165.1	169.9	173.5	176.6
77.5°	114.3	115.0	114.7	116.7	115.9	116.1	119.9	121.7	122.3	129.4	131.0
80°	86.1	87.4	88.0	88.6	89.2	88.0	92.2	94.1	94.1	98.3	101.3
82.5°	61.9	62.6	64.2	64.8	64.9	66.2	66.5	67.9	69.3	71.2	75.1
85°	30.9	32.7	33.3	32.7	33.3	32.2	34.0	34.6	35.2	35.2	35.2
87.5°	10.5	11.2	11.0	11.7	11.4	12.1	12.2	11.3	11.4	12.9	11.1
90°	4.0	5.0	6.2	7.4	8.6	9.7	10.1	10.4	10.8	11.1	11.4
92.5°	12.2	12.8	13.6	14.2	14.9	15.5	15.8	16.1	16.4	16.7	16.8
95°	26.4	27.0	27.7	28.4	29.2	29.9	30.2	30.6	30.9	31.3	31.5
97.5°	44.2	44.7	45.2	45.7	46.3	46.8	47.2	47.6	48.1	48.4	48.6
100°	57.1	57.6	58.1	58.5	58.9	59.4	59.7	59.9	60.2	60.5	60.7
102.5°	70.8	71.2	71.9	72.4	73.0	73.7	73.9	74.2	74.5	74.7	74.8
105°	91.7	92.1	92.9	93.7	94.5	95.3	95.3	95.3	95.3	95.3	95.4
107.5°	116.3	116.5	116.8	117.1	117.4	117.8	118.1	118.3	118.6	118.9	119.0
110°	132.1	132.2	132.4	132.6	132.8	133.0	133.3	133.7	134.0	134.4	134.5



TEST NUMBER: P332181-940

CATALOG NUMBER: S123DIW-S1000D460U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	147.9	148.0	148.0	148.1	148.1	148.1	148.6	149.0	149.5	149.9	150.1
115°	172.8	172.9	172.7	172.5	172.4	172.2	172.3	172.4	172.5	172.5	172.5
117.5°	196.9	196.8	196.6	196.4	196.2	195.9	195.9	195.9	195.8	195.8	195.7
120°	213.5	213.6	213.1	212.7	212.2	211.8	211.7	211.6	211.5	211.4	211.2
122.5°	228.7	228.8	228.6	228.4	228.2	227.9	227.7	227.5	227.2	226.9	226.8
125°	252.4	252.4	252.3	252.1	251.9	251.7	251.4	251.0	250.7	250.3	249.9
127.5°	276.0	276.2	276.0	275.7	275.5	275.4	274.8	274.4	273.8	273.3	272.9
130°	291.4	291.6	291.3	291.1	290.8	290.5	290.2	289.8	289.4	289.1	288.6
132.5°	306.3	306.6	306.3	306.1	305.9	305.8	305.3	304.9	304.4	304.0	303.5
135°	328.2	328.5	328.4	328.3	328.2	328.1	327.8	327.4	327.1	326.7	326.5
137.5°	348.9	349.3	349.5	349.7	350.0	350.2	349.8	349.5	349.1	348.7	348.3
140°	363.5	363.7	363.8	363.9	364.0	364.1	364.0	363.9	363.8	363.7	363.4
142.5°	376.7	377.0	377.2	377.4	377.6	377.6	377.6	377.5	377.4	377.3	377.0
145°	396.4	396.5	396.8	397.1	397.3	397.6	397.5	397.4	397.3	397.3	397.1
147.5°	415.0	415.3	415.5	415.8	416.1	416.3	416.3	416.3	416.3	416.3	416.1
150°	427.0	427.2	427.4	427.6	427.8	427.9	427.9	427.9	427.9	427.9	427.7
152.5°	437.7	437.8	437.9	438.1	438.2	438.3	438.5	438.5	438.7	438.9	438.7
155°	453.0	453.1	453.2	453.3	453.3	453.4	453.8	454.1	454.5	454.9	454.7
157.5°	466.5	466.5	466.5	466.6	466.6	466.7	467.1	467.5	467.9	468.2	468.1
160°	474.9	474.8	474.8	474.8	474.8	474.8	475.3	475.7	476.2	476.6	476.6
162.5°	482.4	482.3	482.3	482.4	482.5	482.6	483.0	483.5	483.9	484.4	484.3
165°	492.3	492.2	492.2	492.2	492.2	492.2	492.8	493.3	493.8	494.4	494.3
167.5°	500.0	499.8	499.9	500.0	500.1	500.1	500.7	501.2	501.8	502.3	502.3
170°	504.5	504.4	504.4	504.4	504.4	504.4	505.0	505.6	506.2	506.8	506.8
172.5°	508.0	507.8	507.8	507.8	507.8	507.8	508.5	509.0	509.5	510.1	510.1
175°	511.8	511.6	511.6	511.6	511.6	511.6	512.1	512.6	513.2	513.7	513.7
177.5°	513.6	513.4	513.4	513.4	513.4	513.4	513.9	514.3	514.8	515.1	515.1
180°	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4



TEST NUMBER: P332181-940

CATALOG NUMBER: S123DIW-S1000D460U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4
2.5°	1197.6	1197.1	1200.5	1198.1	1200.5	1197.1	1197.6	1201.0	1201.9	1202.5	1202.5
5°	1114.7	1116.5	1110.4	1110.4	1110.4	1116.5	1114.7	1118.3	1121.3	1123.8	1127.5
7.5°	1040.9	1038.2	1038.5	1035.2	1038.5	1038.2	1040.9	1043.8	1047.7	1053.0	1058.0
10°	995.8	992.1	990.9	991.5	990.9	992.1	995.8	1003.1	1005.5	1010.3	1015.7
12.5°	958.4	957.7	949.7	949.8	949.7	957.7	958.4	960.3	965.6	975.9	982.3
15°	914.4	902.9	901.7	905.4	901.7	902.9	914.4	914.4	916.9	924.8	928.4
17.5°	870.4	864.3	864.7	862.9	864.7	864.3	870.4	871.4	873.3	879.8	884.6
20°	847.1	843.5	842.8	838.6	842.8	843.5	847.1	847.1	849.5	852.6	857.4
22.5°	825.7	824.6	824.9	820.2	824.9	824.6	825.7	827.2	829.6	831.7	835.1
25°	799.2	802.2	799.8	799.8	799.8	802.2	799.2	799.8	800.4	803.4	805.8
27.5°	781.2	781.0	779.9	779.9	779.9	781.0	781.2	779.7	779.0	777.9	777.4
30°	767.6	767.0	768.2	768.2	768.2	767.0	767.6	765.2	763.9	763.4	760.9
32.5°	754.0	754.8	755.1	755.5	755.1	754.8	754.0	751.1	748.9	747.3	745.4
35°	733.0	733.6	735.5	734.2	735.5	733.6	733.0	729.4	726.9	723.3	720.2
37.5°	704.6	707.4	706.8	707.8	706.8	707.4	704.6	703.6	701.1	698.3	694.8
40°	683.2	685.1	684.5	684.5	684.5	685.1	683.2	682.7	680.2	678.4	675.4
42.5°	661.4	662.7	661.2	660.2	661.2	662.7	661.4	660.3	658.9	655.6	652.1
45°	625.6	624.4	626.2	623.8	626.2	624.4	625.6	623.2	622.6	620.2	617.2
47.5°	585.6	586.7	587.3	589.1	587.3	586.7	585.6	585.8	582.4	580.9	580.0
50°	558.8	562.5	562.5	561.9	562.5	562.5	558.8	557.7	555.2	552.8	552.8
52.5°	532.6	534.3	536.8	536.6	536.8	534.3	532.6	530.5	528.1	524.7	523.7
55°	492.1	493.3	494.5	495.2	494.5	493.3	492.1	487.2	485.4	483.7	480.5
57.5°	450.1	449.6	452.5	453.4	452.5	449.6	450.1	445.8	443.0	437.4	436.7
60°	420.5	420.5	425.3	427.2	425.3	420.5	420.5	415.6	411.4	407.8	406.5
62.5°	389.0	390.9	395.7	393.2	395.7	390.9	389.0	383.6	380.3	375.8	372.6
65°	342.9	347.7	347.1	349.6	347.1	347.7	342.9	339.8	333.1	328.9	325.2
67.5°	294.6	297.7	302.0	302.5	302.0	297.7	294.6	289.8	285.4	281.0	276.6
70°	262.2	265.2	267.6	269.4	267.6	265.2	262.2	257.3	252.4	249.4	244.5
72.5°	230.6	232.2	238.0	235.4	238.0	232.2	230.6	224.8	220.9	218.3	213.0
75°	180.8	185.0	188.7	186.9	188.7	185.0	180.8	176.6	173.5	169.9	165.1
77.5°	133.8	137.9	139.6	138.1	139.6	137.9	133.8	131.0	129.4	122.3	121.7
80°	105.6	105.0	108.6	108.0	108.6	105.0	105.6	101.3	98.3	94.1	94.1
82.5°	77.4	76.9	78.6	78.9	78.6	76.9	77.4	75.1	71.2	69.3	67.9
85°	37.6	39.4	37.0	36.4	37.0	39.4	37.6	35.2	35.2	35.2	34.6
87.5°	11.1	11.1	10.6	10.2	10.6	11.1	11.1	11.1	12.9	11.4	11.3
90°	11.6	11.8	11.9	12.1	11.9	11.8	11.6	11.4	11.1	10.8	10.4
92.5°	16.7	16.5	16.4	16.3	16.4	16.5	16.7	16.8	16.7	16.4	16.1
95°	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.3	30.9	30.6
97.5°	48.6	48.6	48.5	48.5	48.5	48.6	48.6	48.6	48.4	48.1	47.6
100°	60.9	61.1	61.3	61.4	61.3	61.1	60.9	60.7	60.5	60.2	59.9
102.5°	74.8	74.7	74.7	74.6	74.7	74.7	74.8	74.8	74.7	74.5	74.2
105°	95.7	95.9	96.0	96.2	96.0	95.9	95.7	95.4	95.3	95.3	95.3
107.5°	118.9	118.8	118.7	118.6	118.7	118.8	118.9	119.0	118.9	118.6	118.3
110°	134.3	134.1	133.9	133.8	133.9	134.1	134.3	134.5	134.4	134.0	133.7



TEST NUMBER: P332181-940

CATALOG NUMBER: S123DIW-S1000D460U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	150.0	150.0	150.0	149.9	150.0	150.0	150.0	150.1	149.9	149.5	149.0
115°	172.5	172.4	172.3	172.2	172.3	172.4	172.5	172.5	172.5	172.5	172.4
117.5°	195.5	195.2	194.9	194.7	194.9	195.2	195.5	195.7	195.8	195.8	195.9
120°	211.1	210.9	210.7	210.5	210.7	210.9	211.1	211.2	211.4	211.5	211.6
122.5°	226.5	226.2	226.0	225.7	226.0	226.2	226.5	226.8	226.9	227.2	227.5
125°	249.6	249.2	248.9	248.5	248.9	249.2	249.6	249.9	250.3	250.7	251.0
127.5°	272.5	272.1	271.6	271.3	271.6	272.1	272.5	272.9	273.3	273.8	274.4
130°	288.0	287.4	286.8	286.1	286.8	287.4	288.0	288.6	289.1	289.4	289.8
132.5°	303.1	302.6	302.1	301.6	302.1	302.6	303.1	303.5	304.0	304.4	304.9
135°	326.3	326.1	325.9	325.7	325.9	326.1	326.3	326.5	326.7	327.1	327.4
137.5°	347.9	347.7	347.3	347.0	347.3	347.7	347.9	348.3	348.7	349.1	349.5
140°	362.7	362.1	361.5	360.9	361.5	362.1	362.7	363.4	363.7	363.8	363.9
142.5°	376.6	376.0	375.6	375.1	375.6	376.0	376.6	377.0	377.3	377.4	377.5
145°	396.7	396.4	396.0	395.7	396.0	396.4	396.7	397.1	397.3	397.3	397.4
147.5°	415.5	414.9	414.4	413.8	414.4	414.9	415.5	416.1	416.3	416.3	416.3
150°	427.1	426.6	426.1	425.5	426.1	426.6	427.1	427.7	427.9	427.9	427.9
152.5°	438.3	437.7	437.3	436.8	437.3	437.7	438.3	438.7	438.9	438.7	438.5
155°	454.1	453.4	452.8	452.2	452.8	453.4	454.1	454.7	454.9	454.5	454.1
157.5°	467.7	467.2	466.6	466.2	466.6	467.2	467.7	468.1	468.2	467.9	467.5
160°	476.3	475.9	475.5	475.2	475.5	475.9	476.3	476.6	476.6	476.2	475.7
162.5°	483.8	483.1	482.6	482.0	482.6	483.1	483.8	484.3	484.4	483.9	483.5
165°	493.7	493.0	492.4	491.8	492.4	493.0	493.7	494.3	494.4	493.8	493.3
167.5°	501.8	501.2	500.7	500.1	500.7	501.2	501.8	502.3	502.3	501.8	501.2
170°	506.2	505.6	505.0	504.4	505.0	505.6	506.2	506.8	506.8	506.2	505.6
172.5°	509.4	508.8	508.2	507.6	508.2	508.8	509.4	510.1	510.1	509.5	509.0
175°	513.1	512.5	511.8	511.2	511.8	512.5	513.1	513.7	513.7	513.2	512.6
177.5°	514.6	514.2	513.6	513.1	513.6	514.2	514.6	515.1	515.1	514.8	514.3
180°	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4



TEST NUMBER: P332181-940

CATALOG NUMBER: S123DIW-S1000D460U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4
2.5°	1201.0	1201.0	1210.2	1216.0	1223.3	1228.2	1231.5	1234.9	1240.8	1248.6	1257.3
5°	1132.3	1134.7	1148.1	1161.5	1174.2	1185.1	1194.2	1205.1	1218.4	1234.8	1253.0
7.5°	1065.8	1075.1	1088.6	1104.8	1122.7	1138.6	1154.8	1172.7	1191.5	1215.7	1241.2
10°	1023.1	1033.4	1049.7	1070.4	1089.2	1108.0	1128.0	1147.5	1171.1	1199.6	1232.4
12.5°	985.7	995.5	1012.4	1034.9	1052.8	1073.5	1096.4	1121.8	1148.3	1182.7	1219.8
15°	933.9	945.4	966.0	977.0	1004.2	1029.1	1050.3	1086.8	1120.8	1155.9	1199.1
17.5°	891.4	897.9	914.5	934.9	955.2	983.1	1010.9	1041.3	1075.1	1118.2	1172.1
20°	862.3	867.7	885.9	907.1	929.0	954.5	979.4	1009.7	1047.9	1093.4	1151.7
22.5°	840.4	846.3	858.3	880.9	901.3	922.5	947.4	983.5	1024.1	1068.7	1131.8
25°	808.9	812.5	820.4	838.6	856.8	880.5	902.3	936.3	978.2	1030.4	1093.4
27.5°	778.9	782.4	789.0	802.1	819.0	838.2	862.0	890.9	933.4	990.1	1057.0
30°	760.9	761.5	767.6	779.7	794.3	810.1	832.0	864.7	904.7	962.4	1032.8
32.5°	745.4	743.1	747.3	756.4	770.5	786.3	804.2	836.5	875.1	931.8	1004.2
35°	719.1	717.8	716.0	723.9	736.0	748.1	763.9	788.3	832.0	884.8	960.6
37.5°	692.2	689.3	686.1	689.6	699.2	711.8	725.5	747.1	784.7	842.8	915.4
40°	672.3	669.9	668.1	666.9	675.4	687.5	697.9	718.5	753.7	808.9	880.5
42.5°	650.5	649.1	646.8	645.1	652.1	661.3	672.1	690.3	725.5	777.3	845.1
45°	615.3	614.1	612.9	611.6	615.9	624.4	632.9	646.2	676.5	726.9	788.3
47.5°	576.1	574.5	575.0	573.1	577.2	582.9	588.8	603.2	632.3	673.0	717.7
50°	548.0	547.3	547.3	547.3	548.6	555.2	560.7	571.6	598.3	639.0	671.1
52.5°	521.2	518.7	518.7	519.7	521.8	526.1	529.6	541.5	564.8	598.2	627.4
55°	479.4	474.5	473.3	474.5	476.4	480.0	483.7	493.3	513.4	538.2	555.2
57.5°	433.0	430.3	428.7	429.0	430.0	432.9	435.7	446.2	462.0	475.0	485.9
60°	400.5	401.7	396.3	397.4	397.4	399.8	404.1	410.8	424.2	433.3	444.2
62.5°	369.9	368.2	366.7	364.9	364.9	365.9	371.6	376.8	388.3	393.0	401.4
65°	322.2	322.2	318.6	319.8	320.4	316.1	319.1	325.2	332.5	334.4	342.2
67.5°	273.9	272.2	270.2	268.3	268.3	268.0	269.6	272.6	278.0	278.7	284.7
70°	240.9	239.7	239.1	237.3	234.9	237.9	236.0	239.1	242.1	242.7	246.4
72.5°	208.8	207.7	206.5	204.7	203.8	203.4	203.5	207.1	209.1	208.2	212.4
75°	163.3	162.0	160.8	157.7	157.7	156.0	156.6	159.0	161.4	159.6	163.3
77.5°	119.9	116.1	115.9	116.7	114.7	115.0	114.3	114.0	115.0	115.2	118.4
80°	92.2	88.0	89.2	88.6	88.0	87.4	86.1	86.8	87.4	88.0	89.8
82.5°	66.5	66.2	64.9	64.8	64.2	62.6	61.9	63.0	63.6	63.2	64.6
85°	34.0	32.2	33.3	32.7	33.3	32.7	30.9	30.9	32.2	31.6	32.7
87.5°	12.2	12.1	11.4	11.7	11.0	11.2	10.5	10.8	11.1	11.0	11.8
90°	10.1	9.7	8.6	7.4	6.2	5.0	4.0	3.1	2.2	1.3	0.4
92.5°	15.8	15.5	14.9	14.2	13.6	12.8	12.2	11.6	11.0	10.4	9.8
95°	30.2	29.9	29.2	28.4	27.7	27.0	26.4	25.8	25.1	24.4	23.8
97.5°	47.2	46.8	46.3	45.7	45.2	44.7	44.2	43.8	43.2	42.8	42.4
100°	59.7	59.4	58.9	58.5	58.1	57.6	57.1	56.5	56.0	55.5	54.9
102.5°	73.9	73.7	73.0	72.4	71.9	71.2	70.8	70.4	70.2	69.8	69.5
105°	95.3	95.3	94.5	93.7	92.9	92.1	91.7	91.5	91.3	91.1	91.0
107.5°	118.1	117.8	117.4	117.1	116.8	116.5	116.3	116.1	116.0	115.9	115.8
110°	133.3	133.0	132.8	132.6	132.4	132.2	132.1	131.9	131.7	131.5	131.3



TEST NUMBER: P332181-940

CATALOG NUMBER: S123DIW-S1000D460U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	148.6	148.1	148.1	148.1	148.0	148.0	147.9	147.8	147.8	147.6	147.5
115°	172.3	172.2	172.4	172.5	172.7	172.9	172.8	172.5	172.3	172.0	171.7
117.5°	195.9	195.9	196.2	196.4	196.6	196.8	196.9	196.7	196.5	196.4	196.2
120°	211.7	211.8	212.2	212.7	213.1	213.6	213.5	212.9	212.4	211.9	211.3
122.5°	227.7	227.9	228.2	228.4	228.6	228.8	228.7	228.4	228.0	227.6	227.2
125°	251.4	251.7	251.9	252.1	252.3	252.4	252.4	252.2	251.9	251.6	251.4
127.5°	274.8	275.4	275.5	275.7	276.0	276.2	276.0	275.4	274.8	274.2	273.7
130°	290.2	290.5	290.8	291.1	291.3	291.6	291.4	290.7	290.0	289.3	288.6
132.5°	305.3	305.8	305.9	306.1	306.3	306.6	306.3	305.6	304.9	304.1	303.4
135°	327.8	328.1	328.2	328.3	328.4	328.5	328.2	327.7	327.2	326.6	326.1
137.5°	349.8	350.2	350.0	349.7	349.5	349.3	348.9	348.5	348.0	347.6	347.1
140°	364.0	364.1	364.0	363.9	363.8	363.7	363.5	363.0	362.6	362.1	361.7
142.5°	377.6	377.6	377.6	377.4	377.2	377.0	376.7	376.3	375.9	375.4	375.0
145°	397.5	397.6	397.3	397.1	396.8	396.5	396.4	396.2	396.0	395.8	395.7
147.5°	416.3	416.3	416.1	415.8	415.5	415.3	415.0	414.6	414.4	414.0	413.8
150°	427.9	427.9	427.8	427.6	427.4	427.2	427.0	426.9	426.7	426.5	426.3
152.5°	438.5	438.3	438.2	438.1	437.9	437.8	437.7	437.4	437.2	436.9	436.7
155°	453.8	453.4	453.3	453.3	453.2	453.1	453.0	453.0	453.0	453.0	453.0
157.5°	467.1	466.7	466.6	466.6	466.5	466.5	466.5	466.5	466.7	466.8	466.9
160°	475.3	474.8	474.8	474.8	474.8	474.8	474.9	475.1	475.3	475.5	475.6
162.5°	483.0	482.6	482.5	482.4	482.3	482.3	482.4	482.6	482.9	483.1	483.4
165°	492.8	492.2	492.2	492.2	492.2	492.2	492.3	492.6	492.8	493.1	493.4
167.5°	500.7	500.1	500.1	500.0	499.9	499.8	500.0	500.3	500.7	501.1	501.4
170°	505.0	504.4	504.4	504.4	504.4	504.4	504.5	504.9	505.2	505.6	506.0
172.5°	508.5	507.8	507.8	507.8	507.8	507.8	508.0	508.5	508.8	509.2	509.5
175°	512.1	511.6	511.6	511.6	511.6	511.6	511.8	512.1	512.5	512.8	513.2
177.5°	513.9	513.4	513.4	513.4	513.4	513.4	513.6	513.9	514.2	514.4	514.8
180°	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4



TEST NUMBER: P332181-940

CATALOG NUMBER: S123DIW-S1000D460U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4
2.5°	1260.2	1262.7	1270.9	1276.8	1283.5	1287.4	1291.3	1294.2	1298.1	1299.0	1313.1
5°	1265.8	1277.9	1299.1	1314.9	1334.4	1355.6	1370.1	1376.8	1394.5	1409.0	1438.2
7.5°	1264.2	1290.0	1322.1	1355.3	1391.1	1424.1	1452.7	1486.7	1510.8	1547.1	1582.9
10°	1262.8	1297.4	1338.6	1381.1	1430.8	1476.9	1518.2	1564.3	1602.6	1653.0	1696.0
12.5°	1258.4	1300.3	1357.5	1407.7	1468.2	1531.8	1593.0	1652.2	1686.0	1770.0	1809.6
15°	1247.6	1297.4	1369.0	1445.4	1528.6	1603.7	1681.4	1743.4	1843.4	1916.9	1963.6
17.5°	1227.0	1296.6	1381.5	1473.8	1574.9	1674.0	1762.0	1856.0	1962.1	2051.0	2145.6
20°	1217.3	1293.7	1388.4	1490.3	1595.3	1707.5	1807.7	1920.6	2036.4	2123.8	2245.1
22.5°	1199.3	1285.9	1387.9	1501.5	1613.7	1729.8	1847.0	1960.8	2094.7	2215.1	2330.6
25°	1169.9	1267.0	1372.6	1499.4	1631.1	1747.6	1887.8	2038.9	2178.4	2333.2	2448.5
27.5°	1139.1	1242.7	1348.5	1466.5	1608.1	1746.4	1922.7	2093.5	2264.1	2397.7	2483.1
30°	1115.3	1216.0	1325.3	1444.2	1584.4	1748.8	1946.0	2132.3	2298.6	2413.2	2461.2
32.5°	1089.6	1191.8	1288.3	1413.1	1562.5	1747.3	1960.6	2155.1	2300.5	2376.9	2367.5
35°	1049.2	1134.7	1228.8	1348.9	1524.9	1736.7	1969.1	2157.1	2246.4	2230.0	2106.2
37.5°	990.9	1062.8	1155.5	1287.0	1481.2	1714.2	1952.0	2093.2	2087.4	1954.0	1774.7
40°	954.5	1015.7	1105.0	1243.3	1447.2	1699.7	1925.4	2017.0	1939.4	1753.0	1538.2
42.5°	907.0	963.3	1052.6	1194.8	1409.9	1670.0	1874.4	1900.9	1749.0	1534.6	1337.7
45°	833.1	882.9	975.1	1122.0	1353.8	1605.6	1750.0	1685.1	1480.6	1259.1	1109.2
47.5°	753.9	805.6	894.3	1045.2	1272.7	1508.6	1577.4	1439.3	1229.4	1049.7	912.1
50°	703.9	753.7	840.4	992.7	1217.8	1429.1	1457.5	1279.2	1086.2	928.4	815.6
52.5°	653.4	700.3	785.6	938.3	1153.8	1336.8	1319.2	1137.4	959.9	825.5	736.9
55°	578.3	622.6	703.9	847.1	1043.1	1188.1	1124.4	950.8	804.1	699.6	632.3
57.5°	511.0	553.5	623.7	753.0	923.5	1023.1	942.0	795.8	679.0	598.7	548.4
60°	465.4	503.0	569.8	689.9	838.0	913.8	833.7	704.5	606.2	541.9	497.0
62.5°	422.2	455.0	516.8	625.9	754.5	818.2	737.2	627.8	544.0	487.1	448.9
65°	356.8	386.6	441.1	526.1	631.7	674.1	604.4	515.8	450.8	408.4	382.9
67.5°	297.1	322.4	369.5	436.4	514.1	545.0	491.9	423.3	374.4	340.3	320.0
70°	257.3	279.1	316.1	373.8	444.2	467.9	418.1	361.7	325.8	298.5	279.7
72.5°	223.8	239.8	273.4	318.0	376.7	395.5	360.8	311.2	277.8	257.3	242.4
75°	170.5	183.9	205.7	241.5	282.1	293.1	267.0	236.0	213.6	199.0	187.5
77.5°	123.0	132.8	148.6	170.7	198.8	208.7	192.1	171.5	155.1	145.3	138.8
80°	92.8	100.8	114.0	132.2	149.3	154.7	145.0	129.2	117.7	112.3	106.8
82.5°	68.6	73.0	81.1	93.5	105.1	111.6	103.3	93.8	87.7	82.7	80.6
85°	34.6	37.0	40.7	45.5	52.8	55.2	52.2	49.8	46.1	43.1	43.1
87.5°	12.8	13.0	14.7	15.9	18.0	19.7	19.4	18.7	18.5	18.0	17.7
90°	1.3	2.2	3.1	4.0	5.0	6.2	7.4	8.6	9.7	10.1	10.4
92.5°	10.4	11.0	11.6	12.2	12.8	13.6	14.2	14.9	15.5	15.8	16.1
95°	24.4	25.1	25.8	26.4	27.0	27.7	28.4	29.2	29.9	30.2	30.6
97.5°	42.8	43.2	43.8	44.2	44.7	45.2	45.7	46.3	46.8	47.2	47.6
100°	55.5	56.0	56.5	57.1	57.6	58.1	58.5	58.9	59.4	59.7	59.9
102.5°	69.8	70.2	70.4	70.8	71.2	71.9	72.4	73.0	73.7	73.9	74.2
105°	91.1	91.3	91.5	91.7	92.1	92.9	93.7	94.5	95.3	95.3	95.3
107.5°	115.9	116.0	116.1	116.3	116.5	116.8	117.1	117.4	117.8	118.1	118.3
110°	131.5	131.7	131.9	132.1	132.2	132.4	132.6	132.8	133.0	133.3	133.7



TEST NUMBER: P332181-940

CATALOG NUMBER: S123DIW-S1000D460U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	147.6	147.8	147.8	147.9	148.0	148.0	148.1	148.1	148.1	148.6	149.0
115°	172.0	172.3	172.5	172.8	172.9	172.7	172.5	172.4	172.2	172.3	172.4
117.5°	196.4	196.5	196.7	196.9	196.8	196.6	196.4	196.2	195.9	195.9	195.9
120°	211.9	212.4	212.9	213.5	213.6	213.1	212.7	212.2	211.8	211.7	211.6
122.5°	227.6	228.0	228.4	228.7	228.8	228.6	228.4	228.2	227.9	227.7	227.5
125°	251.6	251.9	252.2	252.4	252.4	252.3	252.1	251.9	251.7	251.4	251.0
127.5°	274.2	274.8	275.4	276.0	276.2	276.0	275.7	275.5	275.4	274.8	274.4
130°	289.3	290.0	290.7	291.4	291.6	291.3	291.1	290.8	290.5	290.2	289.8
132.5°	304.1	304.9	305.6	306.3	306.6	306.3	306.1	305.9	305.8	305.3	304.9
135°	326.6	327.2	327.7	328.2	328.5	328.4	328.3	328.2	328.1	327.8	327.4
137.5°	347.6	348.0	348.5	348.9	349.3	349.5	349.7	350.0	350.2	349.8	349.5
140°	362.1	362.6	363.0	363.5	363.7	363.8	363.9	364.0	364.1	364.0	363.9
142.5°	375.4	375.9	376.3	376.7	377.0	377.2	377.4	377.6	377.6	377.6	377.5
145°	395.8	396.0	396.2	396.4	396.5	396.8	397.1	397.3	397.6	397.5	397.4
147.5°	414.0	414.4	414.6	415.0	415.3	415.5	415.8	416.1	416.3	416.3	416.3
150°	426.5	426.7	426.9	427.0	427.2	427.4	427.6	427.8	427.9	427.9	427.9
152.5°	436.9	437.2	437.4	437.7	437.8	437.9	438.1	438.2	438.3	438.5	438.5
155°	453.0	453.0	453.0	453.0	453.1	453.2	453.3	453.3	453.4	453.8	454.1
157.5°	466.8	466.7	466.5	466.5	466.5	466.5	466.6	466.6	466.7	467.1	467.5
160°	475.5	475.3	475.1	474.9	474.8	474.8	474.8	474.8	474.8	475.3	475.7
162.5°	483.1	482.9	482.6	482.4	482.3	482.3	482.4	482.5	482.6	483.0	483.5
165°	493.1	492.8	492.6	492.3	492.2	492.2	492.2	492.2	492.2	492.8	493.3
167.5°	501.1	500.7	500.3	500.0	499.8	499.9	500.0	500.1	500.1	500.7	501.2
170°	505.6	505.2	504.9	504.5	504.4	504.4	504.4	504.4	504.4	505.0	505.6
172.5°	509.2	508.8	508.5	508.0	507.8	507.8	507.8	507.8	507.8	508.5	509.0
175°	512.8	512.5	512.1	511.8	511.6	511.6	511.6	511.6	511.6	512.1	512.6
177.5°	514.4	514.2	513.9	513.6	513.4	513.4	513.4	513.4	513.4	513.9	514.3
180°	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4



TEST NUMBER: P332181-940

CATALOG NUMBER: S123DIW-S1000D460U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4
2.5°	1317.9	1318.5	1323.8	1327.7	1325.7	1328.2	1329.1
5°	1439.9	1461.8	1473.3	1481.8	1482.4	1483.0	1487.9
7.5°	1612.8	1636.3	1653.4	1679.4	1687.1	1696.0	1693.4
10°	1739.1	1773.7	1803.4	1819.2	1836.2	1861.1	1841.0
12.5°	1857.1	1918.3	1963.6	1988.2	2004.1	2009.1	1999.3
15°	2051.6	2131.7	2174.8	2173.5	2228.2	2251.8	2214.8
17.5°	2230.0	2303.9	2363.1	2393.4	2439.0	2449.1	2444.4
20°	2339.2	2419.9	2466.0	2518.2	2541.9	2563.1	2566.8
22.5°	2433.4	2505.9	2555.4	2598.8	2618.6	2628.7	2634.7
25°	2530.3	2587.4	2617.2	2632.3	2637.8	2636.5	2628.7
27.5°	2523.7	2528.1	2495.3	2463.2	2434.4	2402.0	2390.8
30°	2458.2	2407.2	2316.1	2264.6	2188.7	2128.7	2152.9
32.5°	2285.8	2184.3	2082.1	1969.4	1876.1	1849.5	1822.8
35°	1950.9	1772.5	1668.1	1546.8	1498.2	1449.7	1416.3
37.5°	1578.3	1440.3	1316.5	1237.2	1188.5	1157.8	1141.3
40°	1364.7	1240.3	1138.4	1074.1	1037.1	1002.5	997.6
42.5°	1194.3	1078.6	1001.9	950.7	915.2	900.4	889.8
45°	978.2	897.4	845.9	809.5	785.8	776.7	764.6
47.5°	828.0	770.9	732.2	707.4	689.6	682.8	681.8
50°	744.0	696.6	668.1	648.6	634.7	632.3	622.6
52.5°	680.8	639.8	617.6	600.7	590.6	583.7	580.9
55°	591.0	563.7	543.7	534.0	526.1	519.4	519.4
57.5°	517.1	494.3	481.1	472.8	470.4	465.7	462.6
60°	471.4	452.1	441.8	434.4	429.6	430.3	424.7
62.5°	426.9	414.2	404.4	397.1	391.3	391.4	391.7
65°	363.5	353.7	346.5	344.0	340.5	336.2	337.4
67.5°	308.0	298.9	293.2	289.1	287.8	285.5	289.1
70°	268.2	261.5	257.3	253.6	252.4	253.1	256.1
72.5°	231.8	227.0	224.3	222.6	219.9	220.0	222.1
75°	182.0	178.4	175.9	174.2	173.5	173.5	173.5
77.5°	133.8	132.9	131.8	129.1	129.2	130.0	130.1
80°	105.6	103.8	103.2	101.9	100.1	98.9	101.9
82.5°	78.9	77.0	76.4	76.2	73.4	73.2	75.7
85°	42.4	40.7	41.3	40.7	40.7	40.0	40.0
87.5°	17.2	16.8	16.3	16.9	16.4	16.0	17.0
90°	10.8	11.1	11.4	11.6	11.8	11.9	12.1
92.5°	16.4	16.7	16.8	16.7	16.5	16.4	16.3
95°	30.9	31.3	31.5	31.5	31.5	31.5	31.5
97.5°	48.1	48.4	48.6	48.6	48.6	48.5	48.5
100°	60.2	60.5	60.7	60.9	61.1	61.3	61.4
102.5°	74.5	74.7	74.8	74.8	74.7	74.7	74.6
105°	95.3	95.3	95.4	95.7	95.9	96.0	96.2
107.5°	118.6	118.9	119.0	118.9	118.8	118.7	118.6
110°	134.0	134.4	134.5	134.3	134.1	133.9	133.8



TEST NUMBER: P332181-940

CATALOG NUMBER: S123DIW-S1000D460U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	149.5	149.9	150.1	150.0	150.0	150.0	149.9
115°	172.5	172.5	172.5	172.5	172.4	172.3	172.2
117.5°	195.8	195.8	195.7	195.5	195.2	194.9	194.7
120°	211.5	211.4	211.2	211.1	210.9	210.7	210.5
122.5°	227.2	226.9	226.8	226.5	226.2	226.0	225.7
125°	250.7	250.3	249.9	249.6	249.2	248.9	248.5
127.5°	273.8	273.3	272.9	272.5	272.1	271.6	271.3
130°	289.4	289.1	288.6	288.0	287.4	286.8	286.1
132.5°	304.4	304.0	303.5	303.1	302.6	302.1	301.6
135°	327.1	326.7	326.5	326.3	326.1	325.9	325.7
137.5°	349.1	348.7	348.3	347.9	347.7	347.3	347.0
140°	363.8	363.7	363.4	362.7	362.1	361.5	360.9
142.5°	377.4	377.3	377.0	376.6	376.0	375.6	375.1
145°	397.3	397.3	397.1	396.7	396.4	396.0	395.7
147.5°	416.3	416.3	416.1	415.5	414.9	414.4	413.8
150°	427.9	427.9	427.7	427.1	426.6	426.1	425.5
152.5°	438.7	438.9	438.7	438.3	437.7	437.3	436.8
155°	454.5	454.9	454.7	454.1	453.4	452.8	452.2
157.5°	467.9	468.2	468.1	467.7	467.2	466.6	466.2
160°	476.2	476.6	476.6	476.3	475.9	475.5	475.2
162.5°	483.9	484.4	484.3	483.8	483.1	482.6	482.0
165°	493.8	494.4	494.3	493.7	493.0	492.4	491.8
167.5°	501.8	502.3	502.3	501.8	501.2	500.7	500.1
170°	506.2	506.8	506.8	506.2	505.6	505.0	504.4
172.5°	509.5	510.1	510.1	509.4	508.8	508.2	507.6
175°	513.2	513.7	513.7	513.1	512.5	511.8	511.2
177.5°	514.8	515.1	515.1	514.6	514.2	513.6	513.1
180°	514.4	514.4	514.4	514.4	514.4	514.4	514.4

(END OF REPORT)