

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: P332132

Luminaire Tested: **S123DIW-S560D1030U835-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332132  
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: S123DIW-S560D1030U835-4F0-1E-UDD-A  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1030 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

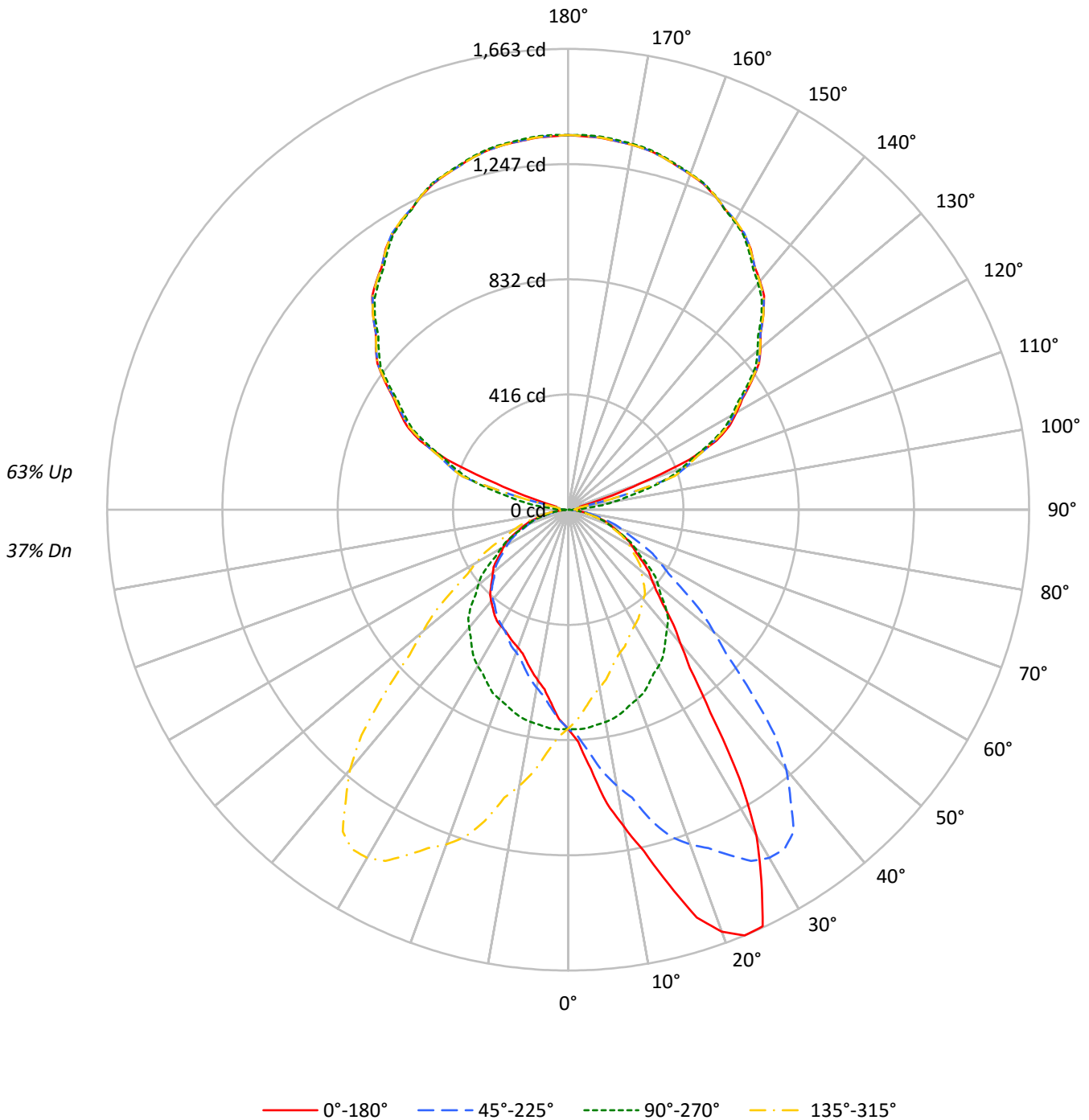
Lumens per Lamp: N/A  
Luminaire Lumens: 6512.4 lumens  
Efficiency: N/A  
Efficacy: 144.1 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 45.2  
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



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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	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																		
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37
1	95	91	87	84	86	82	79	76	67	65	63	52	51	50	39	38	37	31
2	87	80	74	69	78	72	67	63	59	55	52	46	44	42	35	33	32	27
3	79	70	63	57	71	64	58	53	52	48	44	41	38	35	31	29	27	23
4	72	62	54	49	65	56	50	45	46	41	38	37	33	30	28	25	24	20
5	66	55	47	42	60	50	44	38	41	36	32	33	29	26	25	23	21	17
6	61	49	42	36	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	45	37	31	51	41	34	29	34	29	25	27	23	20	21	18	16	13
8	52	40	33	28	47	37	30	26	31	26	22	25	21	18	19	16	14	12
9	49	37	29	25	44	34	27	23	28	23	20	23	19	16	17	15	13	11
10	45	34	27	22	41	31	25	20	26	21	18	21	17	15	16	14	12	10

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	8509	8509	8509	8509
5°	10147	8546	7573	8546
10°	12701	8502	6840	8502
15°	15578	8433	6367	8433
20°	18558	8326	6063	8326
25°	19705	8197	5995	8197
30°	16890	8103	6027	8103
35°	11746	7967	6089	7967
40°	8847	7808	6070	7808
45°	7346	7573	5993	7573
50°	6581	7093	5940	7093
55°	6152	6576	5864	6576
60°	5772	6036	5804	6036
65°	5422	5501	5619	5501
70°	5086	4894	5350	4894
75°	4554	4284	4907	4284
80°	3986	3515	4228	3515
85°	3125	2556	2841	2556



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.9	1.2
10°-20°	249.7	3.8
20°-30°	419.1	6.4
30°-40°	474.5	7.3
40°-50°	425.5	6.5
50°-60°	343.4	5.3
60°-70°	239.3	3.7
70°-80°	125.8	1.9
80°-90°	34.5	0.5
90°-100°	49.2	0.8
100°-110°	234.3	3.6
110°-120°	562.7	8.6
120°-130°	716.5	11.0
130°-140°	765.6	11.8
140°-150°	715.9	11.0
150°-160°	577.5	8.9
160°-170°	372.7	5.7
170°-180°	128.4	2.0
0°-30°	746.6	11.5
0°-40°	1221.1	18.8
0°-60°	1990.1	30.6
0°-90°	2389.7	36.7
90°-120°	846.1	13.0
90°-150°	3044.1	46.7
90°-180°	4123.0	63.3
0°-180°	6512.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	790	790	790	790	790	
5°	939	791	701	791	939	97
15°	1398	757	571	757	1398	404
25°	1659	690	505	690	1659	728
35°	894	606	463	606	894	581
45°	483	498	394	498	483	382
55°	328	350	312	350	328	294
65°	213	216	221	216	213	212
75°	110	103	118	103	110	117
85°	25	21	23	21	25	31
90°	30	1	30	1	30	15
95°	38	61	38	61	38	32
105°	44	299	44	299	44	101
115°	591	562	591	562	591	546
125°	808	792	808	792	808	721
135°	995	985	995	985	995	767
145°	1148	1137	1148	1137	1148	717
155°	1250	1252	1250	1252	1250	577
165°	1318	1321	1318	1321	1318	372
175°	1347	1352	1347	1352	1347	128
180°	1352	1352	1352	1352	1352	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	838.9	838.3	836.8	838.0	835.5	832.2	831.9	828.8	819.9	819.3	816.9
5°	939.1	936.0	935.7	935.3	929.9	922.6	908.8	907.7	889.3	880.1	869.0
7.5°	1068.9	1070.5	1064.9	1060.0	1043.6	1032.8	1018.0	999.1	976.5	953.6	938.3
10°	1162.0	1174.6	1158.9	1148.2	1138.3	1119.5	1097.7	1070.5	1043.3	1011.5	987.4
12.5°	1261.9	1268.1	1265.0	1254.8	1239.4	1210.8	1172.1	1142.2	1117.1	1064.2	1042.8
15°	1397.9	1421.3	1406.4	1371.9	1372.7	1345.5	1294.9	1239.4	1209.9	1163.5	1100.3
17.5°	1542.9	1545.8	1539.4	1510.7	1491.5	1454.2	1407.5	1354.3	1294.5	1238.5	1171.4
20°	1620.1	1617.8	1604.4	1589.4	1556.5	1527.4	1476.4	1417.1	1340.5	1285.3	1212.2
22.5°	1663.0	1659.1	1652.8	1640.3	1612.9	1581.6	1535.9	1471.0	1398.1	1322.1	1237.6
25°	1659.1	1664.1	1664.9	1661.4	1651.9	1633.1	1597.1	1545.4	1472.6	1375.0	1286.9
27.5°	1509.0	1516.0	1536.5	1554.7	1575.0	1595.6	1592.9	1567.2	1513.4	1429.0	1321.3
30°	1358.9	1343.5	1381.5	1429.3	1461.9	1519.3	1551.5	1553.4	1523.2	1450.8	1345.8
32.5°	1150.5	1167.4	1184.1	1243.0	1314.2	1378.7	1442.7	1494.3	1500.2	1452.0	1360.2
35°	893.9	915.0	945.6	976.3	1052.9	1118.7	1231.3	1329.4	1407.5	1417.8	1361.5
37.5°	720.3	730.8	750.1	780.8	830.9	909.1	996.2	1120.1	1233.3	1317.5	1321.2
40°	629.6	632.7	654.5	677.9	718.5	782.8	861.4	970.9	1106.5	1224.1	1273.1
42.5°	561.6	568.4	577.6	600.1	632.4	680.8	753.8	844.4	968.6	1103.9	1199.8
45°	482.6	490.2	496.0	510.9	533.9	566.4	617.4	700.1	794.7	934.5	1063.6
47.5°	430.3	430.9	435.2	446.5	462.1	486.6	522.6	575.7	662.6	775.9	908.5
50°	393.0	399.1	400.6	409.4	421.7	439.7	469.6	514.7	586.0	685.6	807.4
52.5°	366.6	368.4	372.7	379.1	389.8	403.8	429.7	465.1	521.0	605.9	717.9
55°	327.8	327.8	332.1	337.0	343.2	355.8	373.0	399.1	441.6	507.5	600.2
57.5°	292.0	293.9	296.9	298.4	303.6	312.0	326.4	346.2	377.9	428.6	502.3
60°	268.1	271.5	271.2	274.2	278.8	285.3	297.6	313.7	342.0	382.6	444.7
62.5°	247.3	247.0	247.0	250.6	255.2	261.4	269.4	283.3	307.4	343.4	396.2
65°	212.9	212.2	214.9	217.2	218.7	223.3	229.4	241.7	257.8	284.6	325.5
67.5°	182.5	180.2	181.7	182.5	185.1	188.7	194.4	202.0	214.8	236.3	267.2
70°	161.6	159.7	159.3	160.1	162.4	165.1	169.3	176.6	188.4	205.7	228.3
72.5°	140.2	138.9	138.8	140.5	141.6	143.3	146.3	153.0	162.4	175.3	196.4
75°	109.5	109.5	109.5	109.9	111.1	112.6	114.9	118.3	125.6	134.8	149.0
77.5°	82.1	82.0	81.6	81.5	83.2	83.9	84.4	87.6	91.7	97.9	108.2
80°	64.3	62.4	63.2	64.3	65.1	65.5	66.6	67.4	70.9	74.3	81.6
82.5°	47.8	46.2	46.3	48.1	48.3	48.6	49.8	50.9	52.2	55.3	59.2
85°	25.3	25.3	25.7	25.7	26.0	25.7	26.8	27.2	27.2	29.1	31.4
87.5°	15.2	14.5	14.7	15.0	14.6	14.7	14.9	15.0	15.1	15.2	15.0
90°	30.1	29.7	29.2	28.8	28.3	27.7	26.8	25.9	25.0	24.1	21.2
92.5°	33.3	33.1	32.8	32.5	32.3	31.4	30.0	28.6	27.1	25.7	23.5
95°	38.2	38.2	38.2	38.2	38.2	37.4	35.8	34.3	32.7	31.1	28.7
97.5°	41.4	41.2	40.9	40.7	40.5	39.5	37.7	35.9	34.1	32.3	48.4
100°	42.2	42.0	41.7	41.5	41.3	40.3	38.5	36.7	34.9	33.1	68.0
102.5°	43.0	42.6	42.2	41.8	41.4	43.9	49.5	55.0	60.6	66.1	104.1
105°	44.2	43.7	43.3	42.9	42.4	61.9	101.4	141.0	180.5	220.0	240.1
107.5°	138.8	168.6	198.4	228.1	257.9	287.3	316.3	345.2	374.2	403.2	400.0
110°	276.2	308.1	340.0	372.0	403.9	423.5	430.9	438.3	445.6	453.0	450.5



TEST NUMBER: P332132

CATALOG NUMBER: S123DIW-S560D1030U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	473.9	480.6	487.4	494.1	500.8	504.1	504.0	503.9	503.7	503.6	501.2
115°	590.6	589.7	588.8	587.9	587.0	585.5	583.2	581.0	578.8	576.5	574.5
117.5°	656.1	655.9	655.7	655.5	655.4	654.4	652.6	650.8	649.0	647.2	646.2
120°	701.1	701.1	701.1	701.1	701.1	700.2	698.4	696.6	694.8	693.0	692.4
122.5°	745.3	745.1	744.9	744.7	744.6	743.8	742.6	741.3	740.1	738.8	738.0
125°	807.5	807.1	806.6	806.2	805.8	805.3	804.9	804.4	804.0	803.5	802.6
127.5°	867.4	867.9	868.3	868.7	869.2	869.1	868.3	867.6	866.9	866.2	865.1
130°	906.0	906.4	906.9	907.3	907.8	907.5	906.6	905.8	904.9	904.0	903.1
132.5°	941.3	942.0	942.6	943.2	943.8	943.7	942.8	941.9	941.0	940.1	939.4
135°	995.4	996.0	996.7	997.4	998.0	998.0	997.4	996.7	996.0	995.4	994.5
137.5°	1046.2	1046.6	1047.1	1047.5	1048.0	1047.7	1046.6	1045.5	1044.4	1043.4	1042.9
140°	1076.7	1077.2	1077.6	1078.1	1078.5	1078.3	1077.4	1076.5	1075.6	1074.7	1074.0
142.5°	1104.8	1105.5	1106.1	1106.7	1107.3	1107.3	1106.6	1105.9	1105.2	1104.4	1103.8
145°	1148.0	1148.0	1148.0	1148.0	1148.0	1147.8	1147.4	1146.9	1146.5	1146.0	1145.6
147.5°	1180.2	1181.2	1182.2	1183.3	1184.3	1184.6	1184.1	1183.7	1183.2	1182.8	1182.3
150°	1204.3	1205.0	1205.6	1206.3	1207.0	1207.1	1206.6	1206.2	1205.7	1205.3	1204.8
152.5°	1223.6	1224.6	1225.6	1226.6	1227.7	1227.8	1227.0	1226.2	1225.4	1224.6	1224.3
155°	1250.5	1251.8	1253.2	1254.5	1255.8	1256.0	1254.8	1253.7	1252.6	1251.5	1251.3
157.5°	1273.2	1274.9	1276.7	1278.4	1280.1	1280.3	1279.0	1277.7	1276.3	1275.0	1275.2
160°	1287.6	1289.2	1290.8	1292.3	1293.9	1294.0	1292.7	1291.3	1290.0	1288.7	1288.9
162.5°	1301.3	1302.7	1304.1	1305.5	1306.8	1306.8	1305.3	1303.7	1302.2	1300.7	1300.9
165°	1317.8	1319.3	1320.9	1322.5	1324.0	1323.9	1322.1	1320.3	1318.6	1316.8	1317.0
167.5°	1329.6	1331.4	1333.2	1335.0	1336.8	1336.8	1335.0	1333.2	1331.4	1329.6	1329.6
170°	1336.9	1338.6	1340.4	1342.2	1344.0	1344.0	1342.2	1340.4	1338.6	1336.9	1336.9
172.5°	1340.9	1342.8	1344.8	1346.8	1348.7	1348.8	1347.0	1345.3	1343.5	1341.7	1341.5
175°	1346.9	1348.7	1350.5	1352.3	1354.1	1354.2	1352.6	1351.0	1349.5	1347.9	1347.7
177.5°	1348.7	1350.5	1352.3	1354.1	1355.9	1356.0	1354.6	1353.2	1351.8	1350.3	1350.1
180°	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9



TEST NUMBER: P332132

CATALOG NUMBER: S123DIW-S560D1030U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	815.0	812.6	810.1	805.8	802.1	796.9	795.4	793.6	788.1	783.1	779.5
5°	864.8	855.6	842.2	829.9	820.0	806.6	798.9	790.9	779.4	769.1	760.6
7.5°	916.9	898.8	878.0	855.5	834.5	814.2	797.9	783.4	767.3	752.0	740.2
10°	958.3	932.2	903.1	871.7	844.9	818.8	797.0	777.9	757.2	739.2	724.2
12.5°	1005.4	966.8	926.7	888.5	856.8	820.7	794.3	769.9	746.5	724.8	708.0
15°	1061.3	1012.3	964.8	912.3	864.0	818.8	787.4	756.8	729.6	707.4	685.9
17.5°	1112.1	1056.6	994.0	930.2	872.0	818.4	774.4	739.8	705.8	678.6	657.2
20°	1140.9	1077.7	1006.9	940.6	876.3	816.5	768.3	726.9	690.2	661.4	637.3
22.5°	1165.8	1091.8	1018.5	947.7	876.0	811.6	757.0	714.4	674.5	646.4	620.8
25°	1191.5	1103.0	1029.5	946.4	866.3	799.7	738.4	690.2	650.3	617.4	591.0
27.5°	1213.6	1102.3	1015.0	925.6	851.2	784.4	719.0	667.2	624.9	589.1	562.3
30°	1228.3	1103.8	1000.0	911.5	836.5	767.5	703.9	651.9	607.4	571.0	545.8
32.5°	1237.5	1102.9	986.2	891.9	813.2	752.2	687.7	633.8	588.1	552.4	528.0
35°	1242.8	1096.1	962.5	851.4	775.6	716.2	662.2	606.3	558.4	525.1	497.5
37.5°	1232.1	1082.0	934.9	812.3	729.3	670.9	625.4	577.8	532.0	495.3	471.5
40°	1215.2	1072.8	913.4	784.8	697.4	641.1	602.5	555.7	510.5	475.7	453.5
42.5°	1183.1	1054.1	889.9	754.1	664.3	608.0	572.4	533.4	490.6	457.9	435.7
45°	1104.6	1013.4	854.5	708.2	615.5	557.3	525.9	497.5	458.8	427.0	407.9
47.5°	995.6	952.2	803.3	659.7	564.5	508.5	475.8	453.0	424.7	399.1	380.7
50°	920.0	902.0	768.7	626.6	530.4	475.7	444.3	423.6	403.3	377.6	360.8
52.5°	832.6	843.7	728.2	592.3	495.8	442.0	412.4	396.0	377.6	356.5	341.8
55°	709.7	749.9	658.4	534.7	444.3	393.0	365.0	350.4	339.7	324.0	311.4
57.5°	594.6	645.7	582.8	475.3	393.6	349.4	322.6	306.7	299.8	291.6	281.7
60°	526.2	576.8	528.9	435.5	359.6	317.5	293.8	280.4	273.5	267.7	259.3
62.5°	465.3	516.4	476.2	395.0	326.2	287.2	266.5	253.4	248.0	245.0	237.8
65°	381.5	425.5	398.7	332.1	278.4	244.0	225.2	216.0	211.0	209.9	205.3
67.5°	310.5	344.0	324.5	275.4	233.2	203.4	187.5	179.7	175.9	175.5	172.0
70°	263.9	295.3	280.4	235.9	199.5	176.2	162.4	155.5	153.2	152.8	150.9
72.5°	227.7	249.6	237.8	200.7	172.6	151.4	141.2	134.0	131.4	132.0	130.7
75°	168.5	185.0	178.1	152.4	129.8	116.0	107.6	103.0	100.7	101.9	100.3
77.5°	121.3	131.7	125.5	107.7	93.8	83.8	77.6	74.8	72.7	72.6	71.9
80°	91.5	97.7	94.2	83.5	72.0	63.6	58.6	56.7	55.5	55.2	54.8
82.5°	65.2	70.4	66.3	59.0	51.2	46.1	43.3	40.8	39.9	40.1	39.8
85°	32.9	34.9	33.3	28.7	25.7	23.4	21.8	20.7	19.9	20.3	19.5
87.5°	15.0	14.7	13.2	11.5	10.4	9.1	8.6	7.6	7.4	7.8	8.0
90°	18.3	15.4	12.5	9.9	7.7	5.5	3.2	1.0	3.2	5.5	7.7
92.5°	21.3	19.2	17.0	16.2	16.8	17.4	18.1	18.7	18.1	17.4	16.8
95°	26.2	23.8	21.3	24.7	33.8	43.0	52.1	61.3	52.1	43.0	33.8
97.5°	64.5	80.6	96.6	106.7	110.8	114.9	119.0	123.1	119.0	114.9	110.8
100°	102.8	137.6	172.4	187.6	183.1	178.7	174.2	169.7	174.2	178.7	183.1
102.5°	142.2	180.2	218.2	235.6	232.4	229.2	226.0	222.8	226.0	229.2	232.4
105°	260.1	280.2	300.3	309.1	306.7	304.2	301.8	299.3	301.8	304.2	306.7
107.5°	396.8	393.7	390.5	387.9	386.0	384.0	382.0	380.1	382.0	384.0	386.0
110°	448.1	445.6	443.2	441.0	439.3	437.5	435.7	433.9	435.7	437.5	439.3





TEST NUMBER: P332132

CATALOG NUMBER: S123DIW-S560D1030U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	498.7	496.2	493.8	491.8	490.2	488.5	486.9	485.3	486.9	488.5	490.2
115°	572.5	570.5	568.5	566.8	565.5	564.1	562.8	561.5	562.8	564.1	565.5
117.5°	645.2	644.2	643.1	641.8	640.1	638.5	636.8	635.2	636.8	638.5	640.1
120°	691.7	691.0	690.4	689.0	687.0	685.0	683.0	681.0	683.0	685.0	687.0
122.5°	737.1	736.3	735.4	734.2	732.5	730.9	729.2	727.6	729.2	730.9	732.5
125°	801.7	800.8	800.0	798.6	796.8	795.0	793.3	791.5	793.3	795.0	796.8
127.5°	864.1	863.0	861.9	860.5	858.7	856.9	855.1	853.3	855.1	856.9	858.7
130°	902.2	901.3	900.4	899.1	897.3	895.5	893.7	891.9	893.7	895.5	897.3
132.5°	938.7	938.0	937.3	936.0	934.2	932.4	930.7	928.9	930.7	932.4	934.2
135°	993.6	992.7	991.8	990.7	989.3	988.0	986.7	985.3	986.7	988.0	989.3
137.5°	1042.4	1041.9	1041.4	1040.3	1038.6	1036.9	1035.2	1033.5	1035.2	1036.9	1038.6
140°	1073.4	1072.7	1072.0	1071.0	1069.7	1068.4	1067.0	1065.7	1067.0	1068.4	1069.7
142.5°	1103.1	1102.4	1101.8	1100.8	1099.4	1098.1	1096.7	1095.4	1096.7	1098.1	1099.4
145°	1145.1	1144.7	1144.2	1143.2	1141.7	1140.1	1138.5	1137.0	1138.5	1140.1	1141.7
147.5°	1181.9	1181.4	1181.0	1180.3	1179.2	1178.2	1177.2	1176.2	1177.2	1178.2	1179.2
150°	1204.4	1203.9	1203.5	1202.9	1202.3	1201.6	1200.9	1200.3	1200.9	1201.6	1202.3
152.5°	1224.0	1223.8	1223.5	1223.2	1222.9	1222.6	1222.3	1222.0	1222.3	1222.6	1222.9
155°	1251.0	1250.8	1250.6	1250.7	1251.2	1251.6	1252.0	1252.5	1252.0	1251.6	1251.2
157.5°	1275.4	1275.7	1275.9	1276.0	1276.1	1276.1	1276.2	1276.2	1276.2	1276.1	1276.1
160°	1289.1	1289.3	1289.5	1289.8	1290.0	1290.2	1290.4	1290.7	1290.4	1290.2	1290.0
162.5°	1301.2	1301.4	1301.6	1302.0	1302.6	1303.2	1303.7	1304.3	1303.7	1303.2	1302.6
165°	1317.2	1317.4	1317.7	1318.1	1318.8	1319.5	1320.1	1320.8	1320.1	1319.5	1318.8
167.5°	1329.6	1329.6	1329.6	1330.1	1331.0	1331.9	1332.8	1333.6	1332.8	1331.9	1331.0
170°	1336.9	1336.9	1336.9	1337.3	1338.2	1339.1	1340.0	1340.9	1340.0	1339.1	1338.2
172.5°	1341.3	1341.1	1341.0	1341.4	1342.5	1343.6	1344.6	1345.7	1344.6	1343.6	1342.5
175°	1347.5	1347.2	1347.0	1347.5	1348.6	1349.7	1350.8	1351.9	1350.8	1349.7	1348.6
177.5°	1350.0	1349.8	1349.6	1350.0	1350.9	1351.8	1352.6	1353.5	1352.6	1351.8	1350.9
180°	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9



TEST NUMBER: P332132

CATALOG NUMBER: S123DIW-S560D1030U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	777.3	775.2	772.1	767.5	763.8	758.0	758.0	758.9	758.9	758.6	758.0
5°	753.7	748.0	741.1	733.1	724.6	716.2	714.7	711.6	709.3	707.8	705.9
7.5°	728.8	718.7	708.6	697.4	687.1	678.6	672.7	667.8	664.6	661.3	658.8
10°	712.0	699.3	687.5	675.6	662.6	652.2	645.7	641.1	637.7	634.6	633.1
12.5°	692.1	677.6	664.5	653.2	639.0	628.3	622.1	620.0	615.9	609.5	606.1
15°	663.0	649.6	633.9	616.6	609.7	596.7	589.4	586.0	583.7	578.7	577.2
17.5°	638.1	620.5	602.9	590.0	577.2	566.7	562.6	558.3	555.3	551.2	550.0
20°	618.2	602.5	586.4	572.6	559.2	547.7	544.2	541.2	538.1	536.2	534.7
22.5°	597.9	582.2	568.9	556.0	541.7	534.2	530.4	527.1	524.9	523.6	522.1
25°	569.5	555.7	540.8	529.3	517.8	512.8	510.5	508.6	507.1	505.2	504.8
27.5°	544.1	529.1	517.0	506.2	498.0	493.8	491.6	490.7	491.0	491.7	492.1
30°	525.1	511.3	501.3	492.1	484.5	480.7	480.3	480.3	481.8	482.2	483.0
32.5°	507.6	496.3	486.3	477.4	471.6	469.0	470.5	470.5	471.7	472.7	474.1
35°	482.2	472.2	464.6	456.9	451.9	453.1	453.8	454.6	456.5	458.8	460.4
37.5°	457.9	449.3	441.3	435.3	433.0	435.1	436.9	438.5	440.8	442.5	444.0
40°	440.4	433.9	426.3	420.9	421.7	422.8	424.4	426.3	428.2	429.3	430.9
42.5°	424.2	417.4	411.6	407.1	408.2	409.7	410.6	411.6	413.8	415.9	416.8
45°	399.5	394.1	388.7	386.1	386.8	387.6	388.4	389.5	391.4	393.0	393.3
47.5°	371.7	367.9	364.3	361.7	362.9	362.6	363.6	366.1	366.7	367.6	369.7
50°	353.9	350.4	346.2	345.5	345.5	345.5	345.8	348.9	348.9	350.4	352.0
52.5°	334.3	332.1	329.4	328.0	327.4	327.4	329.0	330.5	331.1	333.3	334.8
55°	305.2	302.9	300.7	299.5	298.7	299.5	302.6	303.3	305.2	306.4	307.5
57.5°	275.0	273.2	271.4	270.8	270.6	271.6	273.3	275.6	276.1	279.6	281.3
60°	255.1	252.4	250.9	250.9	250.1	253.5	252.8	256.6	257.4	259.7	262.4
62.5°	234.5	230.9	230.3	230.3	231.4	232.4	233.5	235.2	237.2	240.1	242.1
65°	201.5	199.5	202.2	201.8	201.1	203.4	203.4	205.3	207.6	210.3	214.5
67.5°	170.1	169.1	169.4	169.4	170.5	171.8	172.9	174.6	177.3	180.2	182.9
70°	149.0	150.1	148.2	149.8	150.9	151.3	152.0	154.3	157.4	159.3	162.4
72.5°	128.5	128.4	128.6	129.2	130.4	131.1	131.8	134.4	137.8	139.4	141.9
75°	98.8	98.4	99.6	99.6	101.5	102.3	103.0	104.2	107.2	109.5	111.5
77.5°	72.2	72.6	72.4	73.7	73.2	73.3	75.7	76.8	77.1	81.7	82.7
80°	54.4	55.2	55.5	55.9	56.3	55.5	58.2	59.4	59.4	62.0	64.0
82.5°	39.1	39.5	40.5	40.9	41.0	41.7	42.0	42.8	43.7	44.9	47.4
85°	19.5	20.7	21.1	20.7	21.1	20.3	21.4	21.8	22.2	22.2	22.2
87.5°	8.1	8.9	9.2	10.1	10.4	11.3	11.4	11.0	11.2	12.3	11.2
90°	9.9	12.5	15.4	18.3	21.2	24.1	25.0	25.9	26.8	27.7	28.3
92.5°	16.2	17.0	19.2	21.3	23.5	25.7	27.1	28.6	30.0	31.4	32.3
95°	24.7	21.3	23.8	26.2	28.7	31.1	32.7	34.3	35.8	37.4	38.2
97.5°	106.7	96.6	80.6	64.5	48.4	32.3	34.1	35.9	37.7	39.5	40.5
100°	187.6	172.4	137.6	102.8	68.0	33.1	34.9	36.7	38.5	40.3	41.3
102.5°	235.6	218.2	180.2	142.2	104.1	66.1	60.6	55.0	49.5	43.9	41.4
105°	309.1	300.3	280.2	260.1	240.1	220.0	180.5	141.0	101.4	61.9	42.4
107.5°	387.9	390.5	393.7	396.8	400.0	403.2	374.2	345.2	316.3	287.3	257.9
110°	441.0	443.2	445.6	448.1	450.5	453.0	445.6	438.3	430.9	423.5	403.9



TEST NUMBER: P332132

CATALOG NUMBER: S123DIW-S560D1030U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	491.8	493.8	496.2	498.7	501.2	503.6	503.7	503.9	504.0	504.1	500.8
115°	566.8	568.5	570.5	572.5	574.5	576.5	578.8	581.0	583.2	585.5	587.0
117.5°	641.8	643.1	644.2	645.2	646.2	647.2	649.0	650.8	652.6	654.4	655.4
120°	689.0	690.4	691.0	691.7	692.4	693.0	694.8	696.6	698.4	700.2	701.1
122.5°	734.2	735.4	736.3	737.1	738.0	738.8	740.1	741.3	742.6	743.8	744.6
125°	798.6	800.0	800.8	801.7	802.6	803.5	804.0	804.4	804.9	805.3	805.8
127.5°	860.5	861.9	863.0	864.1	865.1	866.2	866.9	867.6	868.3	869.1	869.2
130°	899.1	900.4	901.3	902.2	903.1	904.0	904.9	905.8	906.6	907.5	907.8
132.5°	936.0	937.3	938.0	938.7	939.4	940.1	941.0	941.9	942.8	943.7	943.8
135°	990.7	991.8	992.7	993.6	994.5	995.4	996.0	996.7	997.4	998.0	998.0
137.5°	1040.3	1041.4	1041.9	1042.4	1042.9	1043.4	1044.4	1045.5	1046.6	1047.7	1048.0
140°	1071.0	1072.0	1072.7	1073.4	1074.0	1074.7	1075.6	1076.5	1077.4	1078.3	1078.5
142.5°	1100.8	1101.8	1102.4	1103.1	1103.8	1104.4	1105.2	1105.9	1106.6	1107.3	1107.3
145°	1143.2	1144.2	1144.7	1145.1	1145.6	1146.0	1146.5	1146.9	1147.4	1147.8	1148.0
147.5°	1180.3	1181.0	1181.4	1181.9	1182.3	1182.8	1183.2	1183.7	1184.1	1184.6	1184.3
150°	1202.9	1203.5	1203.9	1204.4	1204.8	1205.3	1205.7	1206.2	1206.6	1207.1	1207.0
152.5°	1223.2	1223.5	1223.8	1224.0	1224.3	1224.6	1225.4	1226.2	1227.0	1227.8	1227.7
155°	1250.7	1250.6	1250.8	1251.0	1251.3	1251.5	1252.6	1253.7	1254.8	1256.0	1255.8
157.5°	1276.0	1275.9	1275.7	1275.4	1275.2	1275.0	1276.3	1277.7	1279.0	1280.3	1280.1
160°	1289.8	1289.5	1289.3	1289.1	1288.9	1288.7	1290.0	1291.3	1292.7	1294.0	1293.9
162.5°	1302.0	1301.6	1301.4	1301.2	1300.9	1300.7	1302.2	1303.7	1305.3	1306.8	1306.8
165°	1318.1	1317.7	1317.4	1317.2	1317.0	1316.8	1318.6	1320.3	1322.1	1323.9	1324.0
167.5°	1330.1	1329.6	1329.6	1329.6	1329.6	1329.6	1331.4	1333.2	1335.0	1336.8	1336.8
170°	1337.3	1336.9	1336.9	1336.9	1336.9	1336.9	1338.6	1340.4	1342.2	1344.0	1344.0
172.5°	1341.4	1341.0	1341.1	1341.3	1341.5	1341.7	1343.5	1345.3	1347.0	1348.8	1348.7
175°	1347.5	1347.0	1347.2	1347.5	1347.7	1347.9	1349.5	1351.0	1352.6	1354.2	1354.1
177.5°	1350.0	1349.6	1349.8	1350.0	1350.1	1350.3	1351.8	1353.2	1354.6	1356.0	1355.9
180°	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9



TEST NUMBER: P332132

CATALOG NUMBER: S123DIW-S560D1030U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	755.9	755.6	757.7	756.2	757.7	755.6	755.9	758.0	758.6	758.9	758.9
5°	703.6	704.7	700.9	700.9	700.9	704.7	703.6	705.9	707.8	709.3	711.6
7.5°	657.0	655.3	655.5	653.4	655.5	655.3	657.0	658.8	661.3	664.6	667.8
10°	628.5	626.2	625.4	625.8	625.4	626.2	628.5	633.1	634.6	637.7	641.1
12.5°	604.9	604.4	599.4	599.5	599.4	604.4	604.9	606.1	609.5	615.9	620.0
15°	577.2	569.9	569.1	571.4	569.1	569.9	577.2	577.2	578.7	583.7	586.0
17.5°	549.4	545.5	545.8	544.6	545.8	545.5	549.4	550.0	551.2	555.3	558.3
20°	534.7	532.4	532.0	529.3	532.0	532.4	534.7	534.7	536.2	538.1	541.2
22.5°	521.2	520.4	520.6	517.7	520.6	520.4	521.2	522.1	523.6	524.9	527.1
25°	504.4	506.3	504.8	504.8	504.8	506.3	504.4	504.8	505.2	507.1	508.6
27.5°	493.1	493.0	492.2	492.2	492.2	493.0	493.1	492.1	491.7	491.0	490.7
30°	484.5	484.1	484.9	484.9	484.9	484.1	484.5	483.0	482.2	481.8	480.3
32.5°	475.9	476.4	476.6	476.9	476.6	476.4	475.9	474.1	472.7	471.7	470.5
35°	462.7	463.0	464.2	463.4	464.2	463.0	462.7	460.4	458.8	456.5	454.6
37.5°	444.7	446.5	446.1	446.7	446.1	446.5	444.7	444.0	442.5	440.8	438.5
40°	431.3	432.4	432.0	432.0	432.0	432.4	431.3	430.9	429.3	428.2	426.3
42.5°	417.5	418.3	417.3	416.7	417.3	418.3	417.5	416.8	415.9	413.8	411.6
45°	394.9	394.1	395.3	393.7	395.3	394.1	394.9	393.3	393.0	391.4	389.5
47.5°	369.6	370.4	370.7	371.8	370.7	370.4	369.6	369.7	367.6	366.7	366.1
50°	352.7	355.0	355.0	354.7	355.0	355.0	352.7	352.0	350.4	348.9	348.9
52.5°	336.2	337.3	338.8	338.7	338.8	337.3	336.2	334.8	333.3	331.1	330.5
55°	310.6	311.4	312.1	312.5	312.1	311.4	310.6	307.5	306.4	305.2	303.3
57.5°	284.1	283.8	285.6	286.2	285.6	283.8	284.1	281.3	279.6	276.1	275.6
60°	265.4	265.4	268.5	269.6	268.5	265.4	265.4	262.4	259.7	257.4	256.6
62.5°	245.5	246.7	249.8	248.2	249.8	246.7	245.5	242.1	240.1	237.2	235.2
65°	216.4	219.5	219.1	220.6	219.1	219.5	216.4	214.5	210.3	207.6	205.3
67.5°	186.0	187.9	190.7	190.9	190.7	187.9	186.0	182.9	180.2	177.3	174.6
70°	165.5	167.4	168.9	170.0	168.9	167.4	165.5	162.4	159.3	157.4	154.3
72.5°	145.5	146.5	150.2	148.6	150.2	146.5	145.5	141.9	139.4	137.8	134.4
75°	114.1	116.8	119.1	118.0	119.1	116.8	114.1	111.5	109.5	107.2	104.2
77.5°	84.4	87.1	88.2	87.2	88.2	87.1	84.4	82.7	81.7	77.1	76.8
80°	66.6	66.3	68.6	68.2	68.6	66.3	66.6	64.0	62.0	59.4	59.4
82.5°	48.9	48.5	49.6	49.8	49.6	48.5	48.9	47.4	44.9	43.7	42.8
85°	23.7	24.9	23.4	23.0	23.4	24.9	23.7	22.2	22.2	22.2	21.8
87.5°	11.3	11.4	11.1	10.9	11.1	11.4	11.3	11.2	12.3	11.2	11.0
90°	28.8	29.2	29.7	30.1	29.7	29.2	28.8	28.3	27.7	26.8	25.9
92.5°	32.5	32.8	33.1	33.3	33.1	32.8	32.5	32.3	31.4	30.0	28.6
95°	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	37.4	35.8	34.3
97.5°	40.7	40.9	41.2	41.4	41.2	40.9	40.7	40.5	39.5	37.7	35.9
100°	41.5	41.7	42.0	42.2	42.0	41.7	41.5	41.3	40.3	38.5	36.7
102.5°	41.8	42.2	42.6	43.0	42.6	42.2	41.8	41.4	43.9	49.5	55.0
105°	42.9	43.3	43.7	44.2	43.7	43.3	42.9	42.4	61.9	101.4	141.0
107.5°	228.1	198.4	168.6	138.8	168.6	198.4	228.1	257.9	287.3	316.3	345.2
110°	372.0	340.0	308.1	276.2	308.1	340.0	372.0	403.9	423.5	430.9	438.3



TEST NUMBER: P332132

CATALOG NUMBER: S123DIW-S560D1030U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	494.1	487.4	480.6	473.9	480.6	487.4	494.1	500.8	504.1	504.0	503.9
115°	587.9	588.8	589.7	590.6	589.7	588.8	587.9	587.0	585.5	583.2	581.0
117.5°	655.5	655.7	655.9	656.1	655.9	655.7	655.5	655.4	654.4	652.6	650.8
120°	701.1	701.1	701.1	701.1	701.1	701.1	701.1	701.1	700.2	698.4	696.6
122.5°	744.7	744.9	745.1	745.3	745.1	744.9	744.7	744.6	743.8	742.6	741.3
125°	806.2	806.6	807.1	807.5	807.1	806.6	806.2	805.8	805.3	804.9	804.4
127.5°	868.7	868.3	867.9	867.4	867.9	868.3	868.7	869.2	869.1	868.3	867.6
130°	907.3	906.9	906.4	906.0	906.4	906.9	907.3	907.8	907.5	906.6	905.8
132.5°	943.2	942.6	942.0	941.3	942.0	942.6	943.2	943.8	943.7	942.8	941.9
135°	997.4	996.7	996.0	995.4	996.0	996.7	997.4	998.0	998.0	997.4	996.7
137.5°	1047.5	1047.1	1046.6	1046.2	1046.6	1047.1	1047.5	1048.0	1047.7	1046.6	1045.5
140°	1078.1	1077.6	1077.2	1076.7	1077.2	1077.6	1078.1	1078.5	1078.3	1077.4	1076.5
142.5°	1106.7	1106.1	1105.5	1104.8	1105.5	1106.1	1106.7	1107.3	1107.3	1106.6	1105.9
145°	1148.0	1148.0	1148.0	1148.0	1148.0	1148.0	1148.0	1148.0	1147.8	1147.4	1146.9
147.5°	1183.3	1182.2	1181.2	1180.2	1181.2	1182.2	1183.3	1184.3	1184.6	1184.1	1183.7
150°	1206.3	1205.6	1205.0	1204.3	1205.0	1205.6	1206.3	1207.0	1207.1	1206.6	1206.2
152.5°	1226.6	1225.6	1224.6	1223.6	1224.6	1225.6	1226.6	1227.7	1227.8	1227.0	1226.2
155°	1254.5	1253.2	1251.8	1250.5	1251.8	1253.2	1254.5	1255.8	1256.0	1254.8	1253.7
157.5°	1278.4	1276.7	1274.9	1273.2	1274.9	1276.7	1278.4	1280.1	1280.3	1279.0	1277.7
160°	1292.3	1290.8	1289.2	1287.6	1289.2	1290.8	1292.3	1293.9	1294.0	1292.7	1291.3
162.5°	1305.5	1304.1	1302.7	1301.3	1302.7	1304.1	1305.5	1306.8	1306.8	1305.3	1303.7
165°	1322.5	1320.9	1319.3	1317.8	1319.3	1320.9	1322.5	1324.0	1323.9	1322.1	1320.3
167.5°	1335.0	1333.2	1331.4	1329.6	1331.4	1333.2	1335.0	1336.8	1336.8	1335.0	1333.2
170°	1342.2	1340.4	1338.6	1336.9	1338.6	1340.4	1342.2	1344.0	1344.0	1342.2	1340.4
172.5°	1346.8	1344.8	1342.8	1340.9	1342.8	1344.8	1346.8	1348.7	1348.8	1347.0	1345.3
175°	1352.3	1350.5	1348.7	1346.9	1348.7	1350.5	1352.3	1354.1	1354.2	1352.6	1351.0
177.5°	1354.1	1352.3	1350.5	1348.7	1350.5	1352.3	1354.1	1355.9	1356.0	1354.6	1353.2
180°	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9



TEST NUMBER: P332132

CATALOG NUMBER: S123DIW-S560D1030U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	758.0	758.0	763.8	767.5	772.1	775.2	777.3	779.5	783.1	788.1	793.6
5°	714.7	716.2	724.6	733.1	741.1	748.0	753.7	760.6	769.1	779.4	790.9
7.5°	672.7	678.6	687.1	697.4	708.6	718.7	728.8	740.2	752.0	767.3	783.4
10°	645.7	652.2	662.6	675.6	687.5	699.3	712.0	724.2	739.2	757.2	777.9
12.5°	622.1	628.3	639.0	653.2	664.5	677.6	692.1	708.0	724.8	746.5	769.9
15°	589.4	596.7	609.7	616.6	633.9	649.6	663.0	685.9	707.4	729.6	756.8
17.5°	562.6	566.7	577.2	590.0	602.9	620.5	638.1	657.2	678.6	705.8	739.8
20°	544.2	547.7	559.2	572.6	586.4	602.5	618.2	637.3	661.4	690.2	726.9
22.5°	530.4	534.2	541.7	556.0	568.9	582.2	597.9	620.8	646.4	674.5	714.4
25°	510.5	512.8	517.8	529.3	540.8	555.7	569.5	591.0	617.4	650.3	690.2
27.5°	491.6	493.8	498.0	506.2	517.0	529.1	544.1	562.3	589.1	624.9	667.2
30°	480.3	480.7	484.5	492.1	501.3	511.3	525.1	545.8	571.0	607.4	651.9
32.5°	470.5	469.0	471.6	477.4	486.3	496.3	507.6	528.0	552.4	588.1	633.8
35°	453.8	453.1	451.9	456.9	464.6	472.2	482.2	497.5	525.1	558.4	606.3
37.5°	436.9	435.1	433.0	435.3	441.3	449.3	457.9	471.5	495.3	532.0	577.8
40°	424.4	422.8	421.7	420.9	426.3	433.9	440.4	453.5	475.7	510.5	555.7
42.5°	410.6	409.7	408.2	407.1	411.6	417.4	424.2	435.7	457.9	490.6	533.4
45°	388.4	387.6	386.8	386.1	388.7	394.1	399.5	407.9	427.0	458.8	497.5
47.5°	363.6	362.6	362.9	361.7	364.3	367.9	371.7	380.7	399.1	424.7	453.0
50°	345.8	345.5	345.5	345.5	346.2	350.4	353.9	360.8	377.6	403.3	423.6
52.5°	329.0	327.4	327.4	328.0	329.4	332.1	334.3	341.8	356.5	377.6	396.0
55°	302.6	299.5	298.7	299.5	300.7	302.9	305.2	311.4	324.0	339.7	350.4
57.5°	273.3	271.6	270.6	270.8	271.4	273.2	275.0	281.7	291.6	299.8	306.7
60°	252.8	253.5	250.1	250.9	250.9	252.4	255.1	259.3	267.7	273.5	280.4
62.5°	233.5	232.4	231.4	230.3	230.3	230.9	234.5	237.8	245.0	248.0	253.4
65°	203.4	203.4	201.1	201.8	202.2	199.5	201.5	205.3	209.9	211.0	216.0
67.5°	172.9	171.8	170.5	169.4	169.4	169.1	170.1	172.0	175.5	175.9	179.7
70°	152.0	151.3	150.9	149.8	148.2	150.1	149.0	150.9	152.8	153.2	155.5
72.5°	131.8	131.1	130.4	129.2	128.6	128.4	128.5	130.7	132.0	131.4	134.0
75°	103.0	102.3	101.5	99.6	99.6	98.4	98.8	100.3	101.9	100.7	103.0
77.5°	75.7	73.3	73.2	73.7	72.4	72.6	72.2	71.9	72.6	72.7	74.8
80°	58.2	55.5	56.3	55.9	55.5	55.2	54.4	54.8	55.2	55.5	56.7
82.5°	42.0	41.7	41.0	40.9	40.5	39.5	39.1	39.8	40.1	39.9	40.8
85°	21.4	20.3	21.1	20.7	21.1	20.7	19.5	19.5	20.3	19.9	20.7
87.5°	11.4	11.3	10.4	10.1	9.2	8.9	8.1	8.0	7.8	7.4	7.6
90°	25.0	24.1	21.2	18.3	15.4	12.5	9.9	7.7	5.5	3.2	1.0
92.5°	27.1	25.7	23.5	21.3	19.2	17.0	16.2	16.8	17.4	18.1	18.7
95°	32.7	31.1	28.7	26.2	23.8	21.3	24.7	33.8	43.0	52.1	61.3
97.5°	34.1	32.3	48.4	64.5	80.6	96.6	106.7	110.8	114.9	119.0	123.1
100°	34.9	33.1	68.0	102.8	137.6	172.4	187.6	183.1	178.7	174.2	169.7
102.5°	60.6	66.1	104.1	142.2	180.2	218.2	235.6	232.4	229.2	226.0	222.8
105°	180.5	220.0	240.1	260.1	280.2	300.3	309.1	306.7	304.2	301.8	299.3
107.5°	374.2	403.2	400.0	396.8	393.7	390.5	387.9	386.0	384.0	382.0	380.1
110°	445.6	453.0	450.5	448.1	445.6	443.2	441.0	439.3	437.5	435.7	433.9



TEST NUMBER: P332132

CATALOG NUMBER: S123DIW-S560D1030U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	503.7	503.6	501.2	498.7	496.2	493.8	491.8	490.2	488.5	486.9	485.3
115°	578.8	576.5	574.5	572.5	570.5	568.5	566.8	565.5	564.1	562.8	561.5
117.5°	649.0	647.2	646.2	645.2	644.2	643.1	641.8	640.1	638.5	636.8	635.2
120°	694.8	693.0	692.4	691.7	691.0	690.4	689.0	687.0	685.0	683.0	681.0
122.5°	740.1	738.8	738.0	737.1	736.3	735.4	734.2	732.5	730.9	729.2	727.6
125°	804.0	803.5	802.6	801.7	800.8	800.0	798.6	796.8	795.0	793.3	791.5
127.5°	866.9	866.2	865.1	864.1	863.0	861.9	860.5	858.7	856.9	855.1	853.3
130°	904.9	904.0	903.1	902.2	901.3	900.4	899.1	897.3	895.5	893.7	891.9
132.5°	941.0	940.1	939.4	938.7	938.0	937.3	936.0	934.2	932.4	930.7	928.9
135°	996.0	995.4	994.5	993.6	992.7	991.8	990.7	989.3	988.0	986.7	985.3
137.5°	1044.4	1043.4	1042.9	1042.4	1041.9	1041.4	1040.3	1038.6	1036.9	1035.2	1033.5
140°	1075.6	1074.7	1074.0	1073.4	1072.7	1072.0	1071.0	1069.7	1068.4	1067.0	1065.7
142.5°	1105.2	1104.4	1103.8	1103.1	1102.4	1101.8	1100.8	1099.4	1098.1	1096.7	1095.4
145°	1146.5	1146.0	1145.6	1145.1	1144.7	1144.2	1143.2	1141.7	1140.1	1138.5	1137.0
147.5°	1183.2	1182.8	1182.3	1181.9	1181.4	1181.0	1180.3	1179.2	1178.2	1177.2	1176.2
150°	1205.7	1205.3	1204.8	1204.4	1203.9	1203.5	1202.9	1202.3	1201.6	1200.9	1200.3
152.5°	1225.4	1224.6	1224.3	1224.0	1223.8	1223.5	1223.2	1222.9	1222.6	1222.3	1222.0
155°	1252.6	1251.5	1251.3	1251.0	1250.8	1250.6	1250.7	1251.2	1251.6	1252.0	1252.5
157.5°	1276.3	1275.0	1275.2	1275.4	1275.7	1275.9	1276.0	1276.1	1276.1	1276.2	1276.2
160°	1290.0	1288.7	1288.9	1289.1	1289.3	1289.5	1289.8	1290.0	1290.2	1290.4	1290.7
162.5°	1302.2	1300.7	1300.9	1301.2	1301.4	1301.6	1302.0	1302.6	1303.2	1303.7	1304.3
165°	1318.6	1316.8	1317.0	1317.2	1317.4	1317.7	1318.1	1318.8	1319.5	1320.1	1320.8
167.5°	1331.4	1329.6	1329.6	1329.6	1329.6	1329.6	1330.1	1331.0	1331.9	1332.8	1333.6
170°	1338.6	1336.9	1336.9	1336.9	1336.9	1336.9	1337.3	1338.2	1339.1	1340.0	1340.9
172.5°	1343.5	1341.7	1341.5	1341.3	1341.1	1341.0	1341.4	1342.5	1343.6	1344.6	1345.7
175°	1349.5	1347.9	1347.7	1347.5	1347.2	1347.0	1347.5	1348.6	1349.7	1350.8	1351.9
177.5°	1351.8	1350.3	1350.1	1350.0	1349.8	1349.6	1350.0	1350.9	1351.8	1352.6	1353.5
180°	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9



TEST NUMBER: P332132

CATALOG NUMBER: S123DIW-S560D1030U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	795.4	796.9	802.1	805.8	810.1	812.6	815.0	816.9	819.3	819.9	828.8
5°	798.9	806.6	820.0	829.9	842.2	855.6	864.8	869.0	880.1	889.3	907.7
7.5°	797.9	814.2	834.5	855.5	878.0	898.8	916.9	938.3	953.6	976.5	999.1
10°	797.0	818.8	844.9	871.7	903.1	932.2	958.3	987.4	1011.5	1043.3	1070.5
12.5°	794.3	820.7	856.8	888.5	926.7	966.8	1005.4	1042.8	1064.2	1117.1	1142.2
15°	787.4	818.8	864.0	912.3	964.8	1012.3	1061.3	1100.3	1163.5	1209.9	1239.4
17.5°	774.4	818.4	872.0	930.2	994.0	1056.6	1112.1	1171.4	1238.5	1294.5	1354.3
20°	768.3	816.5	876.3	940.6	1006.9	1077.7	1140.9	1212.2	1285.3	1340.5	1417.1
22.5°	757.0	811.6	876.0	947.7	1018.5	1091.8	1165.8	1237.6	1322.1	1398.1	1471.0
25°	738.4	799.7	866.3	946.4	1029.5	1103.0	1191.5	1286.9	1375.0	1472.6	1545.4
27.5°	719.0	784.4	851.2	925.6	1015.0	1102.3	1213.6	1321.3	1429.0	1513.4	1567.2
30°	703.9	767.5	836.5	911.5	1000.0	1103.8	1228.3	1345.8	1450.8	1523.2	1553.4
32.5°	687.7	752.2	813.2	891.9	986.2	1102.9	1237.5	1360.2	1452.0	1500.2	1494.3
35°	662.2	716.2	775.6	851.4	962.5	1096.1	1242.8	1361.5	1417.8	1407.5	1329.4
37.5°	625.4	670.9	729.3	812.3	934.9	1082.0	1232.1	1321.2	1317.5	1233.3	1120.1
40°	602.5	641.1	697.4	784.8	913.4	1072.8	1215.2	1273.1	1224.1	1106.5	970.9
42.5°	572.4	608.0	664.3	754.1	889.9	1054.1	1183.1	1199.8	1103.9	968.6	844.4
45°	525.9	557.3	615.5	708.2	854.5	1013.4	1104.6	1063.6	934.5	794.7	700.1
47.5°	475.8	508.5	564.5	659.7	803.3	952.2	995.6	908.5	775.9	662.6	575.7
50°	444.3	475.7	530.4	626.6	768.7	902.0	920.0	807.4	685.6	586.0	514.7
52.5°	412.4	442.0	495.8	592.3	728.2	843.7	832.6	717.9	605.9	521.0	465.1
55°	365.0	393.0	444.3	534.7	658.4	749.9	709.7	600.2	507.5	441.6	399.1
57.5°	322.6	349.4	393.6	475.3	582.8	645.7	594.6	502.3	428.6	377.9	346.2
60°	293.8	317.5	359.6	435.5	528.9	576.8	526.2	444.7	382.6	342.0	313.7
62.5°	266.5	287.2	326.2	395.0	476.2	516.4	465.3	396.2	343.4	307.4	283.3
65°	225.2	244.0	278.4	332.1	398.7	425.5	381.5	325.5	284.6	257.8	241.7
67.5°	187.5	203.4	233.2	275.4	324.5	344.0	310.5	267.2	236.3	214.8	202.0
70°	162.4	176.2	199.5	235.9	280.4	295.3	263.9	228.3	205.7	188.4	176.6
72.5°	141.2	151.4	172.6	200.7	237.8	249.6	227.7	196.4	175.3	162.4	153.0
75°	107.6	116.0	129.8	152.4	178.1	185.0	168.5	149.0	134.8	125.6	118.3
77.5°	77.6	83.8	93.8	107.7	125.5	131.7	121.3	108.2	97.9	91.7	87.6
80°	58.6	63.6	72.0	83.5	94.2	97.7	91.5	81.6	74.3	70.9	67.4
82.5°	43.3	46.1	51.2	59.0	66.3	70.4	65.2	59.2	55.3	52.2	50.9
85°	21.8	23.4	25.7	28.7	33.3	34.9	32.9	31.4	29.1	27.2	27.2
87.5°	8.6	9.1	10.4	11.5	13.2	14.7	15.0	15.0	15.2	15.1	15.0
90°	3.2	5.5	7.7	9.9	12.5	15.4	18.3	21.2	24.1	25.0	25.9
92.5°	18.1	17.4	16.8	16.2	17.0	19.2	21.3	23.5	25.7	27.1	28.6
95°	52.1	43.0	33.8	24.7	21.3	23.8	26.2	28.7	31.1	32.7	34.3
97.5°	119.0	114.9	110.8	106.7	96.6	80.6	64.5	48.4	32.3	34.1	35.9
100°	174.2	178.7	183.1	187.6	172.4	137.6	102.8	68.0	33.1	34.9	36.7
102.5°	226.0	229.2	232.4	235.6	218.2	180.2	142.2	104.1	66.1	60.6	55.0
105°	301.8	304.2	306.7	309.1	300.3	280.2	260.1	240.1	220.0	180.5	141.0
107.5°	382.0	384.0	386.0	387.9	390.5	393.7	396.8	400.0	403.2	374.2	345.2
110°	435.7	437.5	439.3	441.0	443.2	445.6	448.1	450.5	453.0	445.6	438.3





TEST NUMBER: P332132

CATALOG NUMBER: S123DIW-S560D1030U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	486.9	488.5	490.2	491.8	493.8	496.2	498.7	501.2	503.6	503.7	503.9
115°	562.8	564.1	565.5	566.8	568.5	570.5	572.5	574.5	576.5	578.8	581.0
117.5°	636.8	638.5	640.1	641.8	643.1	644.2	645.2	646.2	647.2	649.0	650.8
120°	683.0	685.0	687.0	689.0	690.4	691.0	691.7	692.4	693.0	694.8	696.6
122.5°	729.2	730.9	732.5	734.2	735.4	736.3	737.1	738.0	738.8	740.1	741.3
125°	793.3	795.0	796.8	798.6	800.0	800.8	801.7	802.6	803.5	804.0	804.4
127.5°	855.1	856.9	858.7	860.5	861.9	863.0	864.1	865.1	866.2	866.9	867.6
130°	893.7	895.5	897.3	899.1	900.4	901.3	902.2	903.1	904.0	904.9	905.8
132.5°	930.7	932.4	934.2	936.0	937.3	938.0	938.7	939.4	940.1	941.0	941.9
135°	986.7	988.0	989.3	990.7	991.8	992.7	993.6	994.5	995.4	996.0	996.7
137.5°	1035.2	1036.9	1038.6	1040.3	1041.4	1041.9	1042.4	1042.9	1043.4	1044.4	1045.5
140°	1067.0	1068.4	1069.7	1071.0	1072.0	1072.7	1073.4	1074.0	1074.7	1075.6	1076.5
142.5°	1096.7	1098.1	1099.4	1100.8	1101.8	1102.4	1103.1	1103.8	1104.4	1105.2	1105.9
145°	1138.5	1140.1	1141.7	1143.2	1144.2	1144.7	1145.1	1145.6	1146.0	1146.5	1146.9
147.5°	1177.2	1178.2	1179.2	1180.3	1181.0	1181.4	1181.9	1182.3	1182.8	1183.2	1183.7
150°	1200.9	1201.6	1202.3	1202.9	1203.5	1203.9	1204.4	1204.8	1205.3	1205.7	1206.2
152.5°	1222.3	1222.6	1222.9	1223.2	1223.5	1223.8	1224.0	1224.3	1224.6	1225.4	1226.2
155°	1252.0	1251.6	1251.2	1250.7	1250.6	1250.8	1251.0	1251.3	1251.5	1252.6	1253.7
157.5°	1276.2	1276.1	1276.1	1276.0	1275.9	1275.7	1275.4	1275.2	1275.0	1276.3	1277.7
160°	1290.4	1290.2	1290.0	1289.8	1289.5	1289.3	1289.1	1288.9	1288.7	1290.0	1291.3
162.5°	1303.7	1303.2	1302.6	1302.0	1301.6	1301.4	1301.2	1300.9	1300.7	1302.2	1303.7
165°	1320.1	1319.5	1318.8	1318.1	1317.7	1317.4	1317.2	1317.0	1316.8	1318.6	1320.3
167.5°	1332.8	1331.9	1331.0	1330.1	1329.6	1329.6	1329.6	1329.6	1329.6	1331.4	1333.2
170°	1340.0	1339.1	1338.2	1337.3	1336.9	1336.9	1336.9	1336.9	1336.9	1338.6	1340.4
172.5°	1344.6	1343.6	1342.5	1341.4	1341.0	1341.1	1341.3	1341.5	1341.7	1343.5	1345.3
175°	1350.8	1349.7	1348.6	1347.5	1347.0	1347.2	1347.5	1347.7	1347.9	1349.5	1351.0
177.5°	1352.6	1351.8	1350.9	1350.0	1349.6	1349.8	1350.0	1350.1	1350.3	1351.8	1353.2
180°	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9



TEST NUMBER: P332132

CATALOG NUMBER: S123DIW-S560D1030U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	831.9	832.2	835.5	838.0	836.8	838.3	838.9
5°	908.8	922.6	929.9	935.3	935.7	936.0	939.1
7.5°	1018.0	1032.8	1043.6	1060.0	1064.9	1070.5	1068.9
10°	1097.7	1119.5	1138.3	1148.2	1158.9	1174.6	1162.0
12.5°	1172.1	1210.8	1239.4	1254.8	1265.0	1268.1	1261.9
15°	1294.9	1345.5	1372.7	1371.9	1406.4	1421.3	1397.9
17.5°	1407.5	1454.2	1491.5	1510.7	1539.4	1545.8	1542.9
20°	1476.4	1527.4	1556.5	1589.4	1604.4	1617.8	1620.1
22.5°	1535.9	1581.6	1612.9	1640.3	1652.8	1659.1	1663.0
25°	1597.1	1633.1	1651.9	1661.4	1664.9	1664.1	1659.1
27.5°	1592.9	1595.6	1575.0	1554.7	1536.5	1516.0	1509.0
30°	1551.5	1519.3	1461.9	1429.3	1381.5	1343.5	1358.9
32.5°	1442.7	1378.7	1314.2	1243.0	1184.1	1167.4	1150.5
35°	1231.3	1118.7	1052.9	976.3	945.6	915.0	893.9
37.5°	996.2	909.1	830.9	780.8	750.1	730.8	720.3
40°	861.4	782.8	718.5	677.9	654.5	632.7	629.6
42.5°	753.8	680.8	632.4	600.1	577.6	568.4	561.6
45°	617.4	566.4	533.9	510.9	496.0	490.2	482.6
47.5°	522.6	486.6	462.1	446.5	435.2	430.9	430.3
50°	469.6	439.7	421.7	409.4	400.6	399.1	393.0
52.5°	429.7	403.8	389.8	379.1	372.7	368.4	366.6
55°	373.0	355.8	343.2	337.0	332.1	327.8	327.8
57.5°	326.4	312.0	303.6	298.4	296.9	293.9	292.0
60°	297.6	285.3	278.8	274.2	271.2	271.5	268.1
62.5°	269.4	261.4	255.2	250.6	247.0	247.0	247.3
65°	229.4	223.3	218.7	217.2	214.9	212.2	212.9
67.5°	194.4	188.7	185.1	182.5	181.7	180.2	182.5
70°	169.3	165.1	162.4	160.1	159.3	159.7	161.6
72.5°	146.3	143.3	141.6	140.5	138.8	138.9	140.2
75°	114.9	112.6	111.1	109.9	109.5	109.5	109.5
77.5°	84.4	83.9	83.2	81.5	81.6	82.0	82.1
80°	66.6	65.5	65.1	64.3	63.2	62.4	64.3
82.5°	49.8	48.6	48.3	48.1	46.3	46.2	47.8
85°	26.8	25.7	26.0	25.7	25.7	25.3	25.3
87.5°	14.9	14.7	14.6	15.0	14.7	14.5	15.2
90°	26.8	27.7	28.3	28.8	29.2	29.7	30.1
92.5°	30.0	31.4	32.3	32.5	32.8	33.1	33.3
95°	35.8	37.4	38.2	38.2	38.2	38.2	38.2
97.5°	37.7	39.5	40.5	40.7	40.9	41.2	41.4
100°	38.5	40.3	41.3	41.5	41.7	42.0	42.2
102.5°	49.5	43.9	41.4	41.8	42.2	42.6	43.0
105°	101.4	61.9	42.4	42.9	43.3	43.7	44.2
107.5°	316.3	287.3	257.9	228.1	198.4	168.6	138.8
110°	430.9	423.5	403.9	372.0	340.0	308.1	276.2



TEST NUMBER: P332132

CATALOG NUMBER: S123DIW-S560D1030U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	504.0	504.1	500.8	494.1	487.4	480.6	473.9
115°	583.2	585.5	587.0	587.9	588.8	589.7	590.6
117.5°	652.6	654.4	655.4	655.5	655.7	655.9	656.1
120°	698.4	700.2	701.1	701.1	701.1	701.1	701.1
122.5°	742.6	743.8	744.6	744.7	744.9	745.1	745.3
125°	804.9	805.3	805.8	806.2	806.6	807.1	807.5
127.5°	868.3	869.1	869.2	868.7	868.3	867.9	867.4
130°	906.6	907.5	907.8	907.3	906.9	906.4	906.0
132.5°	942.8	943.7	943.8	943.2	942.6	942.0	941.3
135°	997.4	998.0	998.0	997.4	996.7	996.0	995.4
137.5°	1046.6	1047.7	1048.0	1047.5	1047.1	1046.6	1046.2
140°	1077.4	1078.3	1078.5	1078.1	1077.6	1077.2	1076.7
142.5°	1106.6	1107.3	1107.3	1106.7	1106.1	1105.5	1104.8
145°	1147.4	1147.8	1148.0	1148.0	1148.0	1148.0	1148.0
147.5°	1184.1	1184.6	1184.3	1183.3	1182.2	1181.2	1180.2
150°	1206.6	1207.1	1207.0	1206.3	1205.6	1205.0	1204.3
152.5°	1227.0	1227.8	1227.7	1226.6	1225.6	1224.6	1223.6
155°	1254.8	1256.0	1255.8	1254.5	1253.2	1251.8	1250.5
157.5°	1279.0	1280.3	1280.1	1278.4	1276.7	1274.9	1273.2
160°	1292.7	1294.0	1293.9	1292.3	1290.8	1289.2	1287.6
162.5°	1305.3	1306.8	1306.8	1305.5	1304.1	1302.7	1301.3
165°	1322.1	1323.9	1324.0	1322.5	1320.9	1319.3	1317.8
167.5°	1335.0	1336.8	1336.8	1335.0	1333.2	1331.4	1329.6
170°	1342.2	1344.0	1344.0	1342.2	1340.4	1338.6	1336.9
172.5°	1347.0	1348.8	1348.7	1346.8	1344.8	1342.8	1340.9
175°	1352.6	1354.2	1354.1	1352.3	1350.5	1348.7	1346.9
177.5°	1354.6	1356.0	1355.9	1354.1	1352.3	1350.5	1348.7
180°	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9

(END OF REPORT)