

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: P331938

Luminaire Tested: **S123DIP-S560D1025U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331938
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: S123DIP-S560D1025U835-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1025 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5910.4 lumens
Efficiency: N/A
Efficacy: 132.8 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: General Diffuse

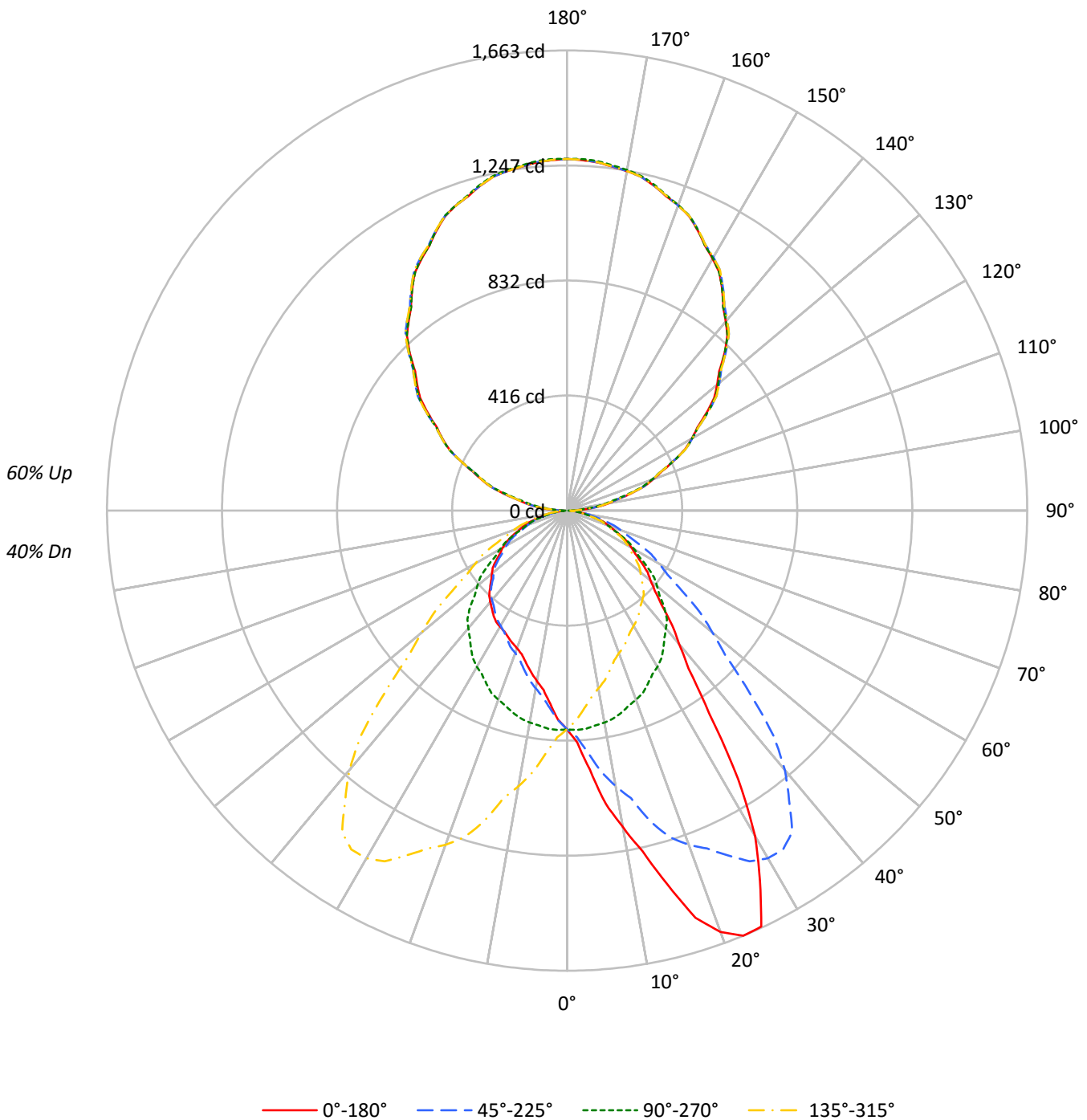
Input Watts (W): 44.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
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	0														
RCR																																						
0	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47	40																				
1	96	92	88	85	87	84	80	78	69	66	64	55	53	52	42	41	40	34																				
2	87	80	74	69	79	73	68	64	60	57	54	48	46	44	37	36	34	29																				
3	80	71	64	58	72	65	59	54	53	49	45	43	40	37	33	31	29	25																				
4	73	63	55	49	66	57	51	46	47	43	39	38	35	32	30	27	25	22																				
5	67	56	48	42	61	51	44	39	43	37	33	34	31	28	27	24	22	19																				
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	22	20	17																				
7	57	45	37	32	52	42	35	30	35	29	26	28	24	21	22	20	17	15																				
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	20	18	16	13																				
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12																				
10	46	34	27	22	42	32	25	21	27	22	18	22	18	15	17	15	13	11																				

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	1.3
10°-20°	249.7	4.2
20°-30°	419.1	7.1
30°-40°	474.5	8.0
40°-50°	425.5	7.2
50°-60°	343.4	5.8
60°-70°	239.3	4.0
70°-80°	125.8	2.1
80°-90°	34.5	0.6
90°-100°	82.8	1.4
100°-110°	247.8	4.2
110°-120°	421.4	7.1
120°-130°	554.3	9.4
130°-140°	623.0	10.5
140°-150°	612.4	10.4
150°-160°	515.6	8.7
160°-170°	343.2	5.8
170°-180°	120.2	2.0
0°-30°	746.6	12.6
0°-40°	1221.1	20.7
0°-60°	1990.1	33.7
0°-90°	2389.7	40.4
90°-120°	752.0	12.7
90°-150°	2541.8	43.0
90°-180°	3521.0	59.6
0°-180°	5910.4	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	16
95°	78	59	78	59	78	80
105°	238	225	238	225	238	252
115°	425	424	425	424	425	421
125°	614	621	614	621	614	549
135°	805	806	805	806	805	619
145°	977	977	977	977	977	610
155°	1117	1119	1117	1119	1117	514
165°	1215	1219	1215	1219	1215	343
175°	1263	1268	1263	1268	1263	120
180°	1271	1271	1271	1271	1271	



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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	14.9	14.5	14.7	14.8	15.0	15.1	15.2	14.9
90°	29.9	29.5	29.1	28.6	28.2	27.5	26.6	25.7	24.8	24.0	21.1
92.5°	40.3	40.6	40.9	41.1	41.4	41.2	40.5	39.8	39.0	38.3	36.7
95°	77.9	77.9	77.9	77.9	77.9	77.4	76.5	75.6	74.8	73.9	72.1
97.5°	119.8	119.9	120.0	120.1	120.1	119.7	118.7	117.6	116.6	115.6	114.3
100°	151.7	151.3	150.8	150.4	150.0	149.4	148.7	148.1	147.4	146.7	145.6
102.5°	184.5	184.6	184.6	184.7	184.8	184.5	183.9	183.2	182.5	181.9	180.4
105°	237.6	237.1	236.7	236.2	235.8	235.6	235.6	235.6	235.6	235.6	233.6
107.5°	292.9	293.1	293.4	293.7	293.9	293.7	293.0	292.3	291.6	290.9	290.1
110°	330.4	330.9	331.3	331.7	332.2	332.0	331.1	330.2	329.3	328.4	328.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	370.3	370.4	370.5	370.6	370.7	370.2	369.1	368.1	367.0	365.9	365.9
115°	425.2	425.5	425.7	425.9	426.1	426.1	425.9	425.7	425.5	425.2	425.7
117.5°	480.9	481.6	482.2	482.8	483.4	483.8	483.8	483.8	483.9	483.9	484.5
120°	520.1	520.5	521.0	521.4	521.8	522.2	522.4	522.6	522.8	523.1	524.2
122.5°	557.6	558.2	558.8	559.5	560.1	560.7	561.3	561.8	562.4	563.0	563.6
125°	613.9	614.8	615.7	616.6	617.4	618.3	619.2	620.1	621.0	621.9	622.3
127.5°	670.0	671.0	672.0	673.1	674.1	675.2	676.5	677.7	678.9	680.2	680.7
130°	706.7	708.3	709.8	711.4	712.9	714.2	715.0	715.9	716.8	717.7	718.4
132.5°	745.1	746.3	747.5	748.7	749.9	751.0	752.1	753.1	754.2	755.2	755.7
135°	804.6	805.0	805.4	805.9	806.3	807.0	807.9	808.8	809.7	810.5	810.8
137.5°	857.1	857.9	858.7	859.6	860.4	861.3	862.3	863.2	864.1	865.0	864.5
140°	891.4	893.0	894.5	896.1	897.6	898.5	898.7	898.9	899.2	899.4	899.2
142.5°	926.5	927.7	928.9	930.1	931.3	932.0	932.3	932.5	932.7	932.9	932.5
145°	977.2	978.1	979.0	979.9	980.8	981.3	981.6	981.8	982.0	982.2	981.6
147.5°	1022.4	1023.7	1025.0	1026.4	1027.7	1028.4	1028.4	1028.4	1028.4	1028.4	1027.7
150°	1051.1	1052.4	1053.8	1055.1	1056.4	1057.1	1057.1	1057.1	1057.1	1057.1	1056.7
152.5°	1079.1	1080.2	1081.4	1082.5	1083.7	1084.1	1083.7	1083.4	1083.0	1082.7	1082.4
155°	1117.0	1118.5	1120.1	1121.7	1123.2	1123.5	1122.7	1121.8	1120.9	1120.0	1119.8
157.5°	1151.5	1152.8	1154.0	1155.3	1156.5	1156.7	1155.7	1154.8	1153.9	1152.9	1152.8
160°	1173.9	1174.8	1175.7	1176.6	1177.4	1177.3	1176.2	1175.1	1174.0	1172.9	1172.9
162.5°	1190.7	1192.1	1193.5	1194.9	1196.3	1196.5	1195.4	1194.3	1193.2	1192.1	1191.9
165°	1214.8	1216.4	1217.9	1219.5	1221.0	1221.1	1219.8	1218.5	1217.1	1215.8	1215.8
167.5°	1235.4	1236.8	1238.1	1239.5	1240.9	1240.9	1239.5	1238.1	1236.8	1235.4	1235.2
170°	1245.8	1247.3	1248.9	1250.4	1252.0	1252.0	1250.4	1248.9	1247.3	1245.8	1245.8
172.5°	1253.7	1255.3	1256.9	1258.4	1260.0	1260.0	1258.7	1257.3	1255.9	1254.5	1254.5
175°	1262.7	1264.3	1265.8	1267.4	1268.9	1269.1	1267.7	1266.4	1265.1	1263.7	1263.7
177.5°	1267.5	1268.8	1270.0	1271.3	1272.5	1272.6	1271.5	1270.5	1269.4	1268.3	1268.3
180°	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7



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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°	18.2	15.3	12.4	9.9	7.7	5.4	3.2	1.0	3.2	5.4	7.7
92.5°	35.0	33.4	31.8	30.2	28.7	27.2	25.7	24.2	25.7	27.2	28.7
95°	70.3	68.5	66.8	65.1	63.6	62.0	60.4	58.9	60.4	62.0	63.6
97.5°	113.0	111.7	110.4	109.2	108.1	106.9	105.8	104.6	105.8	106.9	108.1
100°	144.5	143.4	142.3	141.1	139.7	138.4	137.1	135.8	137.1	138.4	139.7
102.5°	178.9	177.5	176.0	174.9	174.1	173.3	172.5	171.7	172.5	173.3	174.1
105°	231.6	229.6	227.6	226.4	225.9	225.5	225.0	224.6	225.0	225.5	225.9
107.5°	289.3	288.5	287.7	287.2	286.9	286.6	286.4	286.1	286.4	286.6	286.9
110°	327.5	327.1	326.6	326.2	325.7	325.3	324.9	324.4	324.9	325.3	325.7



TEST NUMBER: P331938

CATALOG NUMBER: S123DIP-S560D1025U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	365.8	365.7	365.6	365.4	365.1	364.9	364.6	364.3	364.6	364.9	365.1
115°	426.1	426.6	427.0	426.9	426.2	425.6	424.9	424.2	424.9	425.6	426.2
117.5°	485.1	485.7	486.2	486.3	485.9	485.4	485.0	484.5	485.0	485.4	485.9
120°	525.3	526.4	527.5	527.4	526.1	524.7	523.4	522.1	523.4	524.7	526.1
122.5°	564.1	564.7	565.3	565.1	564.1	563.1	562.2	561.2	562.2	563.1	564.1
125°	622.8	623.2	623.7	623.5	622.9	622.2	621.6	620.9	621.6	622.2	622.9
127.5°	681.2	681.6	682.1	681.7	680.2	678.8	677.4	676.0	677.4	678.8	680.2
130°	719.0	719.7	720.4	719.8	718.0	716.3	714.5	712.7	714.5	716.3	718.0
132.5°	756.2	756.7	757.2	756.6	754.8	753.0	751.2	749.5	751.2	753.0	754.8
135°	811.0	811.2	811.4	810.9	809.5	808.2	806.9	805.6	806.9	808.2	809.5
137.5°	863.9	863.3	862.7	861.9	860.8	859.7	858.6	857.5	858.6	859.7	860.8
140°	898.9	898.7	898.5	897.8	896.7	895.6	894.5	893.4	894.5	895.6	896.7
142.5°	932.1	931.7	931.3	930.6	929.5	928.4	927.2	926.1	927.2	928.4	929.5
145°	980.9	980.2	979.6	979.0	978.6	978.1	977.7	977.2	977.7	978.1	978.6
147.5°	1027.1	1026.5	1025.9	1025.2	1024.4	1023.6	1022.8	1022.0	1022.8	1023.6	1024.4
150°	1056.2	1055.8	1055.3	1054.9	1054.4	1054.0	1053.6	1053.1	1053.6	1054.0	1054.4
152.5°	1082.1	1081.9	1081.6	1081.1	1080.5	1079.9	1079.3	1078.7	1079.3	1079.9	1080.5
155°	1119.5	1119.3	1119.1	1119.0	1119.0	1119.0	1119.0	1119.0	1119.0	1119.0	1119.0
157.5°	1152.6	1152.4	1152.2	1152.3	1152.5	1152.8	1153.1	1153.3	1153.1	1152.8	1152.5
160°	1172.9	1172.9	1172.9	1173.1	1173.6	1174.0	1174.4	1174.9	1174.4	1174.0	1173.6
162.5°	1191.7	1191.5	1191.4	1191.6	1192.2	1192.8	1193.4	1194.1	1193.4	1192.8	1192.2
165°	1215.8	1215.8	1215.8	1216.2	1216.8	1217.5	1218.1	1218.8	1218.1	1217.5	1216.8
167.5°	1235.0	1234.9	1234.7	1235.0	1235.9	1236.8	1237.7	1238.6	1237.7	1236.8	1235.9
170°	1245.8	1245.8	1245.8	1246.2	1247.1	1248.0	1248.9	1249.8	1248.9	1248.0	1247.1
172.5°	1254.5	1254.5	1254.5	1255.0	1255.9	1256.8	1257.7	1258.5	1257.7	1256.8	1255.9
175°	1263.7	1263.7	1263.7	1264.2	1265.1	1265.9	1266.8	1267.7	1266.8	1265.9	1265.1
177.5°	1268.3	1268.3	1268.3	1268.7	1269.4	1270.1	1270.8	1271.5	1270.8	1270.1	1269.4
180°	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7



TEST NUMBER: P331938

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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	10.3	11.2	11.4	11.0	11.1	12.2	11.1
90°	9.9	12.4	15.3	18.2	21.1	24.0	24.8	25.7	26.6	27.5	28.2
92.5°	30.2	31.8	33.4	35.0	36.7	38.3	39.0	39.8	40.5	41.2	41.4
95°	65.1	66.8	68.5	70.3	72.1	73.9	74.8	75.6	76.5	77.4	77.9
97.5°	109.2	110.4	111.7	113.0	114.3	115.6	116.6	117.6	118.7	119.7	120.1
100°	141.1	142.3	143.4	144.5	145.6	146.7	147.4	148.1	148.7	149.4	150.0
102.5°	174.9	176.0	177.5	178.9	180.4	181.9	182.5	183.2	183.9	184.5	184.8
105°	226.4	227.6	229.6	231.6	233.6	235.6	235.6	235.6	235.6	235.6	235.8
107.5°	287.2	287.7	288.5	289.3	290.1	290.9	291.6	292.3	293.0	293.7	293.9
110°	326.2	326.6	327.1	327.5	328.0	328.4	329.3	330.2	331.1	332.0	332.2



TEST NUMBER: P331938

CATALOG NUMBER: S123DIP-S560D1025U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	365.4	365.6	365.7	365.8	365.9	365.9	367.0	368.1	369.1	370.2	370.7
115°	426.9	427.0	426.6	426.1	425.7	425.2	425.5	425.7	425.9	426.1	426.1
117.5°	486.3	486.2	485.7	485.1	484.5	483.9	483.9	483.8	483.8	483.8	483.4
120°	527.4	527.5	526.4	525.3	524.2	523.1	522.8	522.6	522.4	522.2	521.8
122.5°	565.1	565.3	564.7	564.1	563.6	563.0	562.4	561.8	561.3	560.7	560.1
125°	623.5	623.7	623.2	622.8	622.3	621.9	621.0	620.1	619.2	618.3	617.4
127.5°	681.7	682.1	681.6	681.2	680.7	680.2	678.9	677.7	676.5	675.2	674.1
130°	719.8	720.4	719.7	719.0	718.4	717.7	716.8	715.9	715.0	714.2	712.9
132.5°	756.6	757.2	756.7	756.2	755.7	755.2	754.2	753.1	752.1	751.0	749.9
135°	810.9	811.4	811.2	811.0	810.8	810.5	809.7	808.8	807.9	807.0	806.3
137.5°	861.9	862.7	863.3	863.9	864.5	865.0	864.1	863.2	862.3	861.3	860.4
140°	897.8	898.5	898.7	898.9	899.2	899.4	899.2	898.9	898.7	898.5	897.6
142.5°	930.6	931.3	931.7	932.1	932.5	932.9	932.7	932.5	932.3	932.0	931.3
145°	979.0	979.6	980.2	980.9	981.6	982.2	982.0	981.8	981.6	981.3	980.8
147.5°	1025.2	1025.9	1026.5	1027.1	1027.7	1028.4	1028.4	1028.4	1028.4	1028.4	1027.7
150°	1054.9	1055.3	1055.8	1056.2	1056.7	1057.1	1057.1	1057.1	1057.1	1057.1	1056.4
152.5°	1081.1	1081.6	1081.9	1082.1	1082.4	1082.7	1083.0	1083.4	1083.7	1084.1	1083.7
155°	1119.0	1119.1	1119.3	1119.5	1119.8	1120.0	1120.9	1121.8	1122.7	1123.5	1123.2
157.5°	1152.3	1152.2	1152.4	1152.6	1152.8	1152.9	1153.9	1154.8	1155.7	1156.7	1156.5
160°	1173.1	1172.9	1172.9	1172.9	1172.9	1172.9	1174.0	1175.1	1176.2	1177.3	1177.4
162.5°	1191.6	1191.4	1191.5	1191.7	1191.9	1192.1	1193.2	1194.3	1195.4	1196.5	1196.3
165°	1216.2	1215.8	1215.8	1215.8	1215.8	1215.8	1217.1	1218.5	1219.8	1221.1	1221.0
167.5°	1235.0	1234.7	1234.9	1235.0	1235.2	1235.4	1236.8	1238.1	1239.5	1240.9	1240.9
170°	1246.2	1245.8	1245.8	1245.8	1245.8	1245.8	1247.3	1248.9	1250.4	1252.0	1252.0
172.5°	1255.0	1254.5	1254.5	1254.5	1254.5	1254.5	1255.9	1257.3	1258.7	1260.0	1260.0
175°	1264.2	1263.7	1263.7	1263.7	1263.7	1263.7	1265.1	1266.4	1267.7	1269.1	1268.9
177.5°	1268.7	1268.3	1268.3	1268.3	1268.3	1268.3	1269.4	1270.5	1271.5	1272.6	1272.5
180°	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7



TEST NUMBER: P331938

CATALOG NUMBER: S123DIP-S560D1025U835-4F0-1E-UDD-A1

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°	11.2	11.3	11.1	10.9	11.1	11.3	11.2	11.1	12.2	11.1	11.0
90°	28.6	29.1	29.5	29.9	29.5	29.1	28.6	28.2	27.5	26.6	25.7
92.5°	41.1	40.9	40.6	40.3	40.6	40.9	41.1	41.4	41.2	40.5	39.8
95°	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.4	76.5	75.6
97.5°	120.1	120.0	119.9	119.8	119.9	120.0	120.1	120.1	119.7	118.7	117.6
100°	150.4	150.8	151.3	151.7	151.3	150.8	150.4	150.0	149.4	148.7	148.1
102.5°	184.7	184.6	184.6	184.5	184.6	184.6	184.7	184.8	184.5	183.9	183.2
105°	236.2	236.7	237.1	237.6	237.1	236.7	236.2	235.8	235.6	235.6	235.6
107.5°	293.7	293.4	293.1	292.9	293.1	293.4	293.7	293.9	293.7	293.0	292.3
110°	331.7	331.3	330.9	330.4	330.9	331.3	331.7	332.2	332.0	331.1	330.2



TEST NUMBER: P331938

CATALOG NUMBER: S123DIP-S560D1025U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	370.6	370.5	370.4	370.3	370.4	370.5	370.6	370.7	370.2	369.1	368.1
115°	425.9	425.7	425.5	425.2	425.5	425.7	425.9	426.1	426.1	425.9	425.7
117.5°	482.8	482.2	481.6	480.9	481.6	482.2	482.8	483.4	483.8	483.8	483.8
120°	521.4	521.0	520.5	520.1	520.5	521.0	521.4	521.8	522.2	522.4	522.6
122.5°	559.5	558.8	558.2	557.6	558.2	558.8	559.5	560.1	560.7	561.3	561.8
125°	616.6	615.7	614.8	613.9	614.8	615.7	616.6	617.4	618.3	619.2	620.1
127.5°	673.1	672.0	671.0	670.0	671.0	672.0	673.1	674.1	675.2	676.5	677.7
130°	711.4	709.8	708.3	706.7	708.3	709.8	711.4	712.9	714.2	715.0	715.9
132.5°	748.7	747.5	746.3	745.1	746.3	747.5	748.7	749.9	751.0	752.1	753.1
135°	805.9	805.4	805.0	804.6	805.0	805.4	805.9	806.3	807.0	807.9	808.8
137.5°	859.6	858.7	857.9	857.1	857.9	858.7	859.6	860.4	861.3	862.3	863.2
140°	896.1	894.5	893.0	891.4	893.0	894.5	896.1	897.6	898.5	898.7	898.9
142.5°	930.1	928.9	927.7	926.5	927.7	928.9	930.1	931.3	932.0	932.3	932.5
145°	979.9	979.0	978.1	977.2	978.1	979.0	979.9	980.8	981.3	981.6	981.8
147.5°	1026.4	1025.0	1023.7	1022.4	1023.7	1025.0	1026.4	1027.7	1028.4	1028.4	1028.4
150°	1055.1	1053.8	1052.4	1051.1	1052.4	1053.8	1055.1	1056.4	1057.1	1057.1	1057.1
152.5°	1082.5	1081.4	1080.2	1079.1	1080.2	1081.4	1082.5	1083.7	1084.1	1083.7	1083.4
155°	1121.7	1120.1	1118.5	1117.0	1118.5	1120.1	1121.7	1123.2	1123.5	1122.7	1121.8
157.5°	1155.3	1154.0	1152.8	1151.5	1152.8	1154.0	1155.3	1156.5	1156.7	1155.7	1154.8
160°	1176.6	1175.7	1174.8	1173.9	1174.8	1175.7	1176.6	1177.4	1177.3	1176.2	1175.1
162.5°	1194.9	1193.5	1192.1	1190.7	1192.1	1193.5	1194.9	1196.3	1196.5	1195.4	1194.3
165°	1219.5	1217.9	1216.4	1214.8	1216.4	1217.9	1219.5	1221.0	1221.1	1219.8	1218.5
167.5°	1239.5	1238.1	1236.8	1235.4	1236.8	1238.1	1239.5	1240.9	1240.9	1239.5	1238.1
170°	1250.4	1248.9	1247.3	1245.8	1247.3	1248.9	1250.4	1252.0	1252.0	1250.4	1248.9
172.5°	1258.4	1256.9	1255.3	1253.7	1255.3	1256.9	1258.4	1260.0	1260.0	1258.7	1257.3
175°	1267.4	1265.8	1264.3	1262.7	1264.3	1265.8	1267.4	1268.9	1269.1	1267.7	1266.4
177.5°	1271.3	1270.0	1268.8	1267.5	1268.8	1270.0	1271.3	1272.5	1272.6	1271.5	1270.5
180°	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7



TEST NUMBER: P331938

CATALOG NUMBER: S123DIP-S560D1025U835-4F0-1E-UDD-A1

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	11.2	10.3	10.1	9.2	8.9	8.1	8.0	7.8	7.4	7.6
90°	24.8	24.0	21.1	18.2	15.3	12.4	9.9	7.7	5.4	3.2	1.0
92.5°	39.0	38.3	36.7	35.0	33.4	31.8	30.2	28.7	27.2	25.7	24.2
95°	74.8	73.9	72.1	70.3	68.5	66.8	65.1	63.6	62.0	60.4	58.9
97.5°	116.6	115.6	114.3	113.0	111.7	110.4	109.2	108.1	106.9	105.8	104.6
100°	147.4	146.7	145.6	144.5	143.4	142.3	141.1	139.7	138.4	137.1	135.8
102.5°	182.5	181.9	180.4	178.9	177.5	176.0	174.9	174.1	173.3	172.5	171.7
105°	235.6	235.6	233.6	231.6	229.6	227.6	226.4	225.9	225.5	225.0	224.6
107.5°	291.6	290.9	290.1	289.3	288.5	287.7	287.2	286.9	286.6	286.4	286.1
110°	329.3	328.4	328.0	327.5	327.1	326.6	326.2	325.7	325.3	324.9	324.4



TEST NUMBER: P331938

CATALOG NUMBER: S123DIP-S560D1025U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	367.0	365.9	365.9	365.8	365.7	365.6	365.4	365.1	364.9	364.6	364.3
115°	425.5	425.2	425.7	426.1	426.6	427.0	426.9	426.2	425.6	424.9	424.2
117.5°	483.9	483.9	484.5	485.1	485.7	486.2	486.3	485.9	485.4	485.0	484.5
120°	522.8	523.1	524.2	525.3	526.4	527.5	527.4	526.1	524.7	523.4	522.1
122.5°	562.4	563.0	563.6	564.1	564.7	565.3	565.1	564.1	563.1	562.2	561.2
125°	621.0	621.9	622.3	622.8	623.2	623.7	623.5	622.9	622.2	621.6	620.9
127.5°	678.9	680.2	680.7	681.2	681.6	682.1	681.7	680.2	678.8	677.4	676.0
130°	716.8	717.7	718.4	719.0	719.7	720.4	719.8	718.0	716.3	714.5	712.7
132.5°	754.2	755.2	755.7	756.2	756.7	757.2	756.6	754.8	753.0	751.2	749.5
135°	809.7	810.5	810.8	811.0	811.2	811.4	810.9	809.5	808.2	806.9	805.6
137.5°	864.1	865.0	864.5	863.9	863.3	862.7	861.9	860.8	859.7	858.6	857.5
140°	899.2	899.4	899.2	898.9	898.7	898.5	897.8	896.7	895.6	894.5	893.4
142.5°	932.7	932.9	932.5	932.1	931.7	931.3	930.6	929.5	928.4	927.2	926.1
145°	982.0	982.2	981.6	980.9	980.2	979.6	979.0	978.6	978.1	977.7	977.2
147.5°	1028.4	1028.4	1027.7	1027.1	1026.5	1025.9	1025.2	1024.4	1023.6	1022.8	1022.0
150°	1057.1	1057.1	1056.7	1056.2	1055.8	1055.3	1054.9	1054.4	1054.0	1053.6	1053.1
152.5°	1083.0	1082.7	1082.4	1082.1	1081.9	1081.6	1081.1	1080.5	1079.9	1079.3	1078.7
155°	1120.9	1120.0	1119.8	1119.5	1119.3	1119.1	1119.0	1119.0	1119.0	1119.0	1119.0
157.5°	1153.9	1152.9	1152.8	1152.6	1152.4	1152.2	1152.3	1152.5	1152.8	1153.1	1153.3
160°	1174.0	1172.9	1172.9	1172.9	1172.9	1172.9	1173.1	1173.6	1174.0	1174.4	1174.9
162.5°	1193.2	1192.1	1191.9	1191.7	1191.5	1191.4	1191.6	1192.2	1192.8	1193.4	1194.1
165°	1217.1	1215.8	1215.8	1215.8	1215.8	1215.8	1216.2	1216.8	1217.5	1218.1	1218.8
167.5°	1236.8	1235.4	1235.2	1235.0	1234.9	1234.7	1235.0	1235.9	1236.8	1237.7	1238.6
170°	1247.3	1245.8	1245.8	1245.8	1245.8	1245.8	1246.2	1247.1	1248.0	1248.9	1249.8
172.5°	1255.9	1254.5	1254.5	1254.5	1254.5	1254.5	1255.0	1255.9	1256.8	1257.7	1258.5
175°	1265.1	1263.7	1263.7	1263.7	1263.7	1263.7	1264.2	1265.1	1265.9	1266.8	1267.7
177.5°	1269.4	1268.3	1268.3	1268.3	1268.3	1268.3	1268.7	1269.4	1270.1	1270.8	1271.5
180°	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7



TEST NUMBER: P331938

CATALOG NUMBER: S123DIP-S560D1025U835-4F0-1E-UDD-A1

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	14.9	15.2	15.1	15.0
90°	3.2	5.4	7.7	9.9	12.4	15.3	18.2	21.1	24.0	24.8	25.7
92.5°	25.7	27.2	28.7	30.2	31.8	33.4	35.0	36.7	38.3	39.0	39.8
95°	60.4	62.0	63.6	65.1	66.8	68.5	70.3	72.1	73.9	74.8	75.6
97.5°	105.8	106.9	108.1	109.2	110.4	111.7	113.0	114.3	115.6	116.6	117.6
100°	137.1	138.4	139.7	141.1	142.3	143.4	144.5	145.6	146.7	147.4	148.1
102.5°	172.5	173.3	174.1	174.9	176.0	177.5	178.9	180.4	181.9	182.5	183.2
105°	225.0	225.5	225.9	226.4	227.6	229.6	231.6	233.6	235.6	235.6	235.6
107.5°	286.4	286.6	286.9	287.2	287.7	288.5	289.3	290.1	290.9	291.6	292.3
110°	324.9	325.3	325.7	326.2	326.6	327.1	327.5	328.0	328.4	329.3	330.2



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	364.6	364.9	365.1	365.4	365.6	365.7	365.8	365.9	365.9	367.0	368.1
115°	424.9	425.6	426.2	426.9	427.0	426.6	426.1	425.7	425.2	425.5	425.7
117.5°	485.0	485.4	485.9	486.3	486.2	485.7	485.1	484.5	483.9	483.9	483.8
120°	523.4	524.7	526.1	527.4	527.5	526.4	525.3	524.2	523.1	522.8	522.6
122.5°	562.2	563.1	564.1	565.1	565.3	564.7	564.1	563.6	563.0	562.4	561.8
125°	621.6	622.2	622.9	623.5	623.7	623.2	622.8	622.3	621.9	621.0	620.1
127.5°	677.4	678.8	680.2	681.7	682.1	681.6	681.2	680.7	680.2	678.9	677.7
130°	714.5	716.3	718.0	719.8	720.4	719.7	719.0	718.4	717.7	716.8	715.9
132.5°	751.2	753.0	754.8	756.6	757.2	756.7	756.2	755.7	755.2	754.2	753.1
135°	806.9	808.2	809.5	810.9	811.4	811.2	811.0	810.8	810.5	809.7	808.8
137.5°	858.6	859.7	860.8	861.9	862.7	863.3	863.9	864.5	865.0	864.1	863.2
140°	894.5	895.6	896.7	897.8	898.5	898.7	898.9	899.2	899.4	899.2	898.9
142.5°	927.2	928.4	929.5	930.6	931.3	931.7	932.1	932.5	932.9	932.7	932.5
145°	977.7	978.1	978.6	979.0	979.6	980.2	980.9	981.6	982.2	982.0	981.8
147.5°	1022.8	1023.6	1024.4	1025.2	1025.9	1026.5	1027.1	1027.7	1028.4	1028.4	1028.4
150°	1053.6	1054.0	1054.4	1054.9	1055.3	1055.8	1056.2	1056.7	1057.1	1057.1	1057.1
152.5°	1079.3	1079.9	1080.5	1081.1	1081.6	1081.9	1082.1	1082.4	1082.7	1083.0	1083.4
155°	1119.0	1119.0	1119.0	1119.0	1119.1	1119.3	1119.5	1119.8	1120.0	1120.9	1121.8
157.5°	1153.1	1152.8	1152.5	1152.3	1152.2	1152.4	1152.6	1152.8	1152.9	1153.9	1154.8
160°	1174.4	1174.0	1173.6	1173.1	1172.9	1172.9	1172.9	1172.9	1172.9	1174.0	1175.1
162.5°	1193.4	1192.8	1192.2	1191.6	1191.4	1191.5	1191.7	1191.9	1192.1	1193.2	1194.3
165°	1218.1	1217.5	1216.8	1216.2	1215.8	1215.8	1215.8	1215.8	1215.8	1217.1	1218.5
167.5°	1237.7	1236.8	1235.9	1235.0	1234.7	1234.9	1235.0	1235.2	1235.4	1236.8	1238.1
170°	1248.9	1248.0	1247.1	1246.2	1245.8	1245.8	1245.8	1245.8	1245.8	1247.3	1248.9
172.5°	1257.7	1256.8	1255.9	1255.0	1254.5	1254.5	1254.5	1254.5	1254.5	1255.9	1257.3
175°	1266.8	1265.9	1265.1	1264.2	1263.7	1263.7	1263.7	1263.7	1263.7	1265.1	1266.4
177.5°	1270.8	1270.1	1269.4	1268.7	1268.3	1268.3	1268.3	1268.3	1268.3	1269.4	1270.5
180°	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7



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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°	14.8	14.7	14.5	14.9	14.7	14.5	15.2
90°	26.6	27.5	28.2	28.6	29.1	29.5	29.9
92.5°	40.5	41.2	41.4	41.1	40.9	40.6	40.3
95°	76.5	77.4	77.9	77.9	77.9	77.9	77.9
97.5°	118.7	119.7	120.1	120.1	120.0	119.9	119.8
100°	148.7	149.4	150.0	150.4	150.8	151.3	151.7
102.5°	183.9	184.5	184.8	184.7	184.6	184.6	184.5
105°	235.6	235.6	235.8	236.2	236.7	237.1	237.6
107.5°	293.0	293.7	293.9	293.7	293.4	293.1	292.9
110°	331.1	332.0	332.2	331.7	331.3	330.9	330.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	369.1	370.2	370.7	370.6	370.5	370.4	370.3
115°	425.9	426.1	426.1	425.9	425.7	425.5	425.2
117.5°	483.8	483.8	483.4	482.8	482.2	481.6	480.9
120°	522.4	522.2	521.8	521.4	521.0	520.5	520.1
122.5°	561.3	560.7	560.1	559.5	558.8	558.2	557.6
125°	619.2	618.3	617.4	616.6	615.7	614.8	613.9
127.5°	676.5	675.2	674.1	673.1	672.0	671.0	670.0
130°	715.0	714.2	712.9	711.4	709.8	708.3	706.7
132.5°	752.1	751.0	749.9	748.7	747.5	746.3	745.1
135°	807.9	807.0	806.3	805.9	805.4	805.0	804.6
137.5°	862.3	861.3	860.4	859.6	858.7	857.9	857.1
140°	898.7	898.5	897.6	896.1	894.5	893.0	891.4
142.5°	932.3	932.0	931.3	930.1	928.9	927.7	926.5
145°	981.6	981.3	980.8	979.9	979.0	978.1	977.2
147.5°	1028.4	1028.4	1027.7	1026.4	1025.0	1023.7	1022.4
150°	1057.1	1057.1	1056.4	1055.1	1053.8	1052.4	1051.1
152.5°	1083.7	1084.1	1083.7	1082.5	1081.4	1080.2	1079.1
155°	1122.7	1123.5	1123.2	1121.7	1120.1	1118.5	1117.0
157.5°	1155.7	1156.7	1156.5	1155.3	1154.0	1152.8	1151.5
160°	1176.2	1177.3	1177.4	1176.6	1175.7	1174.8	1173.9
162.5°	1195.4	1196.5	1196.3	1194.9	1193.5	1192.1	1190.7
165°	1219.8	1221.1	1221.0	1219.5	1217.9	1216.4	1214.8
167.5°	1239.5	1240.9	1240.9	1239.5	1238.1	1236.8	1235.4
170°	1250.4	1252.0	1252.0	1250.4	1248.9	1247.3	1245.8
172.5°	1258.7	1260.0	1260.0	1258.4	1256.9	1255.3	1253.7
175°	1267.7	1269.1	1268.9	1267.4	1265.8	1264.3	1262.7
177.5°	1271.5	1272.6	1272.5	1271.3	1270.0	1268.8	1267.5
180°	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7

(END OF REPORT)