

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: P332563-830

Luminaire Tested: **SA4XXDIP-C575D1035U830-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332563-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-C575D1035U830-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 575 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1035 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

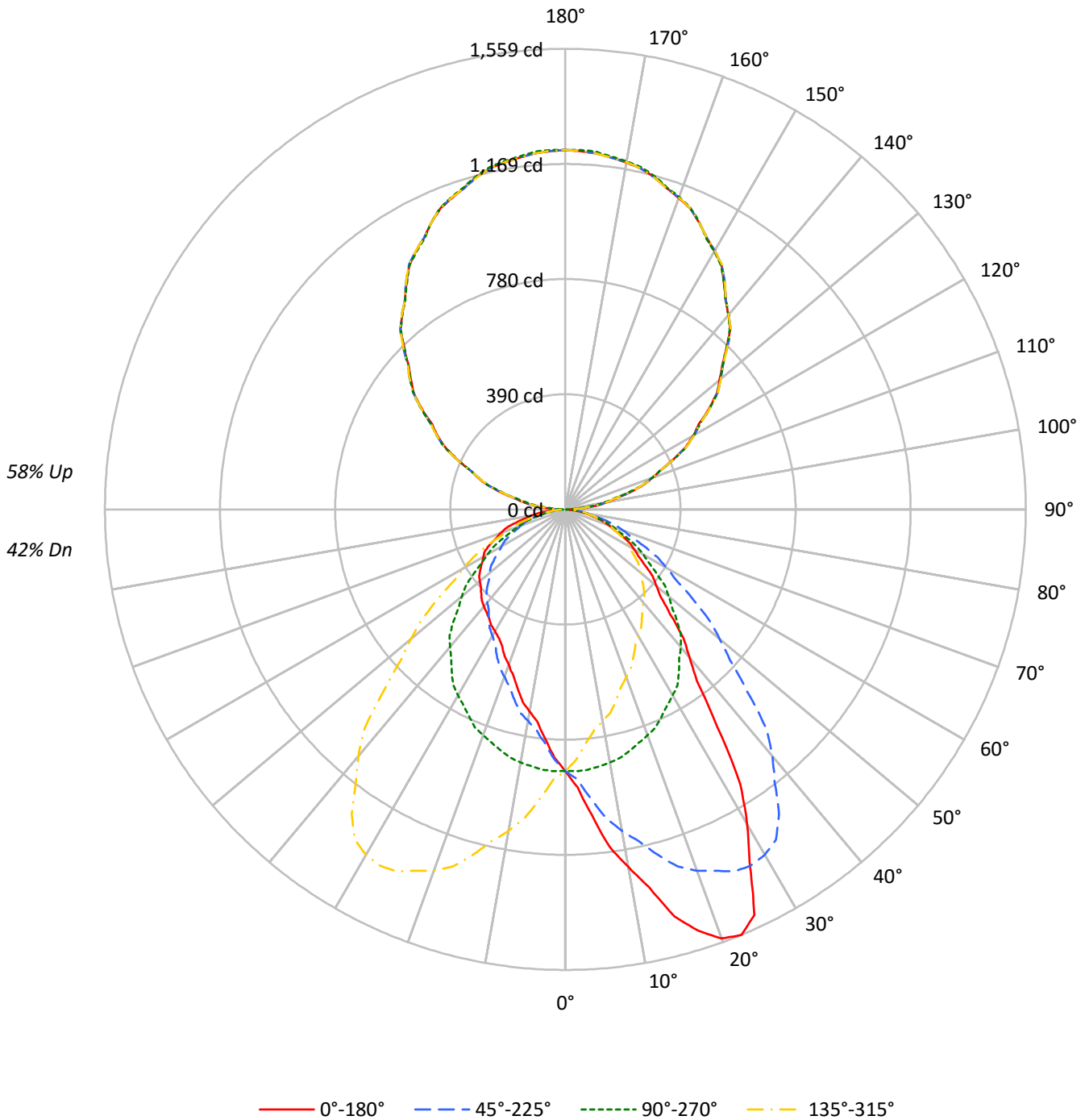
Lumens per Lamp: N/A
Luminaire Lumens: 5821.1 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

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				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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	42
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	42	36
2	88	80	75	70	80	74	69	64	61	57	54	49	47	44	38	37	35	30
3	80	71	64	58	73	65	59	54	54	49	46	44	40	38	34	32	30	26
4	73	63	55	49	67	58	51	46	48	43	39	39	35	33	31	28	26	22
5	67	56	48	42	61	52	45	39	43	38	34	35	31	28	28	25	23	19
6	62	50	42	37	56	46	39	34	39	33	29	32	28	25	25	22	20	17
7	57	45	38	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15
8	53	41	34	28	49	38	31	27	32	27	23	26	22	20	21	18	16	14
9	50	38	30	25	45	35	28	24	29	24	21	24	20	18	20	17	15	12
10	46	34	27	23	42	32	26	21	27	22	19	22	19	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7146	7146	7146	7146
5°	8417	7165	6324	7165
10°	10077	7133	5694	7133
15°	11922	7061	5229	7061
20°	13277	6988	4814	6988
25°	13491	6879	4528	6879
30°	11479	6776	4437	6776
35°	8825	6606	4438	6606
40°	6880	6407	4521	6407
45°	5736	6109	4598	6109
50°	5048	5743	4752	5743
55°	4625	5306	4944	5306
60°	4334	4913	5176	4913
65°	4034	4476	5366	4476
70°	3687	4043	5488	4043
75°	3297	3556	5421	3556
80°	2762	2915	5249	2915
85°	2038	2103	5030	2103



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.2	1.5
10°-20°	265.8	4.6
20°-30°	421.5	7.2
30°-40°	469.1	8.1
40°-50°	427.0	7.3
50°-60°	349.0	6.0
60°-70°	249.1	4.3
70°-80°	137.2	2.4
80°-90°	41.1	0.7
90°-100°	80.2	1.4
100°-110°	237.7	4.1
110°-120°	403.4	6.9
120°-130°	531.9	9.1
130°-140°	597.4	10.3
140°-150°	587.0	10.1
150°-160°	493.7	8.5
160°-170°	328.5	5.6
170°-180°	115.0	2.0
0°-30°	773.6	13.3
0°-40°	1242.8	21.3
0°-60°	2018.8	34.7
0°-90°	2446.1	42.0
90°-120°	721.3	12.4
90°-150°	2437.7	41.9
90°-180°	3375.0	58.0
0°-180°	5821.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	885	885	885	885	885	
5°	1039	884	780	884	1039	106
15°	1426	845	626	845	1426	403
25°	1515	772	508	772	1515	668
35°	896	670	450	670	896	568
45°	502	535	403	535	502	396
55°	329	377	351	377	329	297
65°	211	234	281	234	211	209
75°	106	114	174	114	106	112
85°	22	23	54	23	22	28
90°	28	3	28	3	28	15
95°	74	56	74	56	74	77
105°	230	219	230	219	230	242
115°	406	410	406	410	406	402
125°	593	597	593	597	593	529
135°	772	770	772	770	772	596
145°	937	936	937	936	937	586
155°	1072	1072	1072	1072	1072	493
165°	1165	1168	1165	1168	1165	328
175°	1209	1215	1209	1215	1209	115
180°	1216	1216	1216	1216	1216	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2
2.5°	942.2	941.9	939.0	938.4	936.3	933.7	933.1	928.4	919.0	914.6	913.4
5°	1038.6	1045.9	1036.3	1034.5	1033.4	1021.3	1015.1	1007.8	990.9	981.0	973.3
7.5°	1153.6	1154.4	1150.3	1146.9	1137.6	1127.0	1111.2	1094.3	1074.2	1053.3	1037.6
10°	1229.3	1232.2	1227.5	1226.7	1208.0	1196.3	1172.8	1153.0	1130.2	1104.9	1081.9
12.5°	1309.1	1305.0	1302.5	1286.9	1283.4	1262.0	1234.7	1214.3	1179.2	1150.1	1119.4
15°	1426.5	1418.5	1413.3	1391.8	1381.1	1351.4	1322.4	1300.0	1254.2	1210.6	1177.5
17.5°	1495.5	1503.5	1491.7	1482.8	1455.3	1434.5	1404.9	1357.9	1322.0	1267.8	1226.2
20°	1545.4	1546.1	1539.5	1530.3	1508.7	1482.3	1450.0	1398.7	1355.8	1301.8	1244.6
22.5°	1558.9	1559.1	1556.2	1547.7	1531.3	1509.9	1477.3	1434.5	1382.5	1323.9	1266.7
25°	1514.6	1513.2	1516.5	1526.0	1519.8	1513.2	1494.4	1462.5	1414.1	1352.1	1290.5
27.5°	1350.0	1360.1	1378.8	1402.2	1424.8	1442.0	1446.9	1440.4	1410.3	1359.3	1294.9
30°	1231.4	1244.0	1257.8	1281.4	1326.8	1352.8	1381.5	1403.1	1391.0	1350.3	1290.2
32.5°	1101.2	1104.3	1124.9	1151.7	1193.4	1243.4	1288.7	1332.7	1347.3	1326.0	1275.7
35°	895.5	900.7	923.0	949.4	1000.4	1061.7	1129.9	1190.7	1241.0	1261.2	1235.5
37.5°	730.8	745.6	761.3	789.7	834.6	889.8	960.6	1039.3	1114.3	1164.4	1172.9
40°	652.8	661.9	673.4	694.9	733.1	787.4	848.2	938.5	1018.0	1090.0	1113.4
42.5°	591.2	596.5	603.5	623.0	652.1	706.1	761.7	841.0	921.0	1006.9	1046.2
45°	502.4	507.9	519.6	531.0	553.0	590.4	642.2	707.4	787.7	870.6	943.2
47.5°	438.3	441.9	448.8	461.0	479.7	504.4	546.4	600.9	675.3	755.8	833.2
50°	401.9	404.8	410.4	421.4	435.6	457.7	492.1	543.1	601.4	682.5	758.4
52.5°	373.2	374.4	378.4	385.9	397.3	415.8	444.0	486.2	540.5	612.7	688.2
55°	328.6	330.1	333.8	339.2	349.1	360.9	382.5	414.1	461.4	524.1	589.7
57.5°	291.9	292.9	296.1	298.1	306.3	315.8	332.4	355.0	390.9	444.0	502.7
60°	268.4	267.7	271.4	273.2	278.7	286.8	299.6	321.2	352.4	395.3	449.2
62.5°	245.5	244.5	247.6	250.1	253.2	260.0	270.6	287.5	312.8	351.7	398.2
65°	211.2	209.8	211.6	214.5	217.4	221.1	228.8	243.8	264.0	291.9	327.4
67.5°	176.7	178.3	178.6	180.0	181.7	186.7	192.0	202.6	216.9	239.2	269.3
70°	156.2	156.6	158.1	158.1	159.2	163.5	168.0	174.2	188.1	208.7	233.3
72.5°	135.7	137.2	136.7	137.8	138.6	141.6	144.8	150.7	162.6	177.9	198.6
75°	105.7	106.7	106.7	107.1	108.2	109.2	111.9	116.2	124.7	136.0	150.3
77.5°	77.0	77.2	77.7	79.0	79.0	80.8	82.7	86.1	90.4	98.1	106.9
80°	59.4	60.1	59.8	60.5	60.5	62.0	62.7	67.1	68.9	74.1	81.1
82.5°	43.5	44.3	44.2	45.2	45.8	46.1	47.1	48.9	50.7	55.3	58.2
85°	22.0	22.7	22.0	22.7	23.8	24.2	25.3	25.6	27.1	28.3	30.8
87.5°	12.1	12.9	12.8	13.0	13.5	13.7	13.7	13.2	14.0	14.1	15.0
90°	28.2	27.8	27.4	27.0	26.6	25.7	24.5	23.2	22.0	20.7	19.0
92.5°	41.8	41.6	41.3	41.0	40.8	40.2	39.5	38.7	38.0	37.2	36.1
95°	74.4	74.4	74.4	74.4	74.4	74.0	73.4	72.8	72.1	71.5	70.0
97.5°	116.5	116.5	116.5	116.5	116.5	116.1	115.4	114.6	113.9	113.1	111.4
100°	145.8	145.8	145.8	145.8	145.8	145.6	145.2	144.8	144.4	143.9	142.0
102.5°	178.9	178.8	178.6	178.4	178.2	177.9	177.3	176.7	176.2	175.6	173.8
105°	229.5	228.9	228.3	227.6	227.1	226.4	225.8	225.2	224.5	223.9	223.1
107.5°	278.8	278.9	278.9	279.0	279.0	278.7	278.1	277.6	277.0	276.4	276.3
110°	314.2	313.6	312.9	312.4	311.7	311.6	312.0	312.5	312.8	313.3	313.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	350.3	350.2	350.1	350.0	349.9	349.9	349.9	350.0	350.1	350.2	350.5
115°	406.4	406.6	406.8	407.1	407.3	407.5	407.6	407.8	408.1	408.3	408.7
117.5°	459.9	460.2	460.7	461.1	461.6	462.1	462.8	463.5	464.2	465.0	465.2
120°	500.5	500.1	499.6	499.3	498.8	499.2	500.2	501.2	502.3	503.3	504.0
122.5°	534.3	535.1	535.8	536.6	537.3	538.1	538.9	539.5	540.3	540.9	541.2
125°	592.7	593.1	593.5	594.0	594.4	594.7	595.2	595.6	596.1	596.4	596.6
127.5°	646.7	647.1	647.3	647.7	648.0	648.4	648.8	649.2	649.7	650.1	650.4
130°	682.0	682.9	683.7	684.6	685.4	686.1	686.5	686.9	687.3	687.7	687.7
132.5°	719.7	720.0	720.4	720.7	721.0	721.4	721.8	722.3	722.6	723.1	723.2
135°	771.5	772.0	772.7	773.4	773.9	774.5	774.9	775.3	775.7	776.2	776.2
137.5°	825.9	825.7	825.6	825.5	825.3	825.6	826.0	826.6	827.2	827.7	827.4
140°	858.9	859.1	859.3	859.6	859.8	860.0	860.2	860.4	860.6	860.8	860.8
142.5°	892.0	892.1	892.1	892.2	892.2	892.3	892.3	892.3	892.4	892.4	892.6
145°	937.0	937.6	938.3	938.9	939.5	939.9	940.2	940.4	940.6	940.8	940.6
147.5°	982.6	982.8	983.0	983.2	983.4	983.5	983.7	983.9	984.1	984.3	984.4
150°	1010.4	1010.6	1010.8	1011.1	1011.3	1011.3	1011.3	1011.3	1011.3	1011.3	1011.3
152.5°	1035.9	1036.5	1037.1	1037.6	1038.2	1038.2	1037.6	1037.2	1036.7	1036.1	1036.0
155°	1071.6	1072.4	1073.3	1074.0	1074.9	1074.9	1074.0	1073.3	1072.4	1071.6	1071.8
157.5°	1103.3	1104.1	1104.8	1105.5	1106.2	1106.3	1105.6	1104.9	1104.4	1103.7	1103.8
160°	1121.4	1122.5	1123.5	1124.5	1125.6	1125.8	1125.2	1124.5	1123.9	1123.3	1123.5
162.5°	1140.2	1141.3	1142.4	1143.4	1144.4	1144.3	1143.2	1142.1	1140.9	1139.8	1140.1
165°	1164.7	1165.5	1166.4	1167.2	1168.0	1167.8	1166.6	1165.4	1164.0	1162.8	1163.2
167.5°	1182.2	1183.5	1184.8	1186.1	1187.4	1187.4	1186.2	1184.9	1183.6	1182.4	1182.3
170°	1191.9	1193.4	1194.9	1196.4	1197.8	1198.0	1196.7	1195.4	1194.2	1192.9	1192.7
172.5°	1200.2	1201.7	1203.2	1204.7	1206.1	1206.2	1204.7	1203.2	1201.8	1200.4	1200.4
175°	1208.9	1210.4	1211.8	1213.3	1214.7	1214.7	1213.3	1211.8	1210.4	1208.9	1209.1
177.5°	1213.4	1214.7	1216.1	1217.5	1218.8	1218.9	1217.7	1216.5	1215.3	1214.2	1214.2
180°	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2
2.5°	913.7	909.6	906.7	904.4	897.9	894.1	891.2	887.0	882.3	877.3	871.2
5°	965.6	953.1	944.0	930.0	916.8	905.8	894.5	884.2	871.7	858.2	848.2
7.5°	1020.1	1001.5	977.8	957.2	934.0	913.8	895.8	877.3	858.1	839.4	822.4
10°	1054.7	1030.9	1004.5	973.3	944.0	917.9	893.7	870.2	847.5	824.7	805.3
12.5°	1091.9	1062.2	1023.2	986.7	953.9	919.1	889.9	861.1	833.7	809.8	787.1
15°	1142.0	1099.1	1054.0	1005.2	962.0	921.2	881.3	844.9	814.2	782.6	760.6
17.5°	1172.7	1119.6	1068.1	1017.1	964.7	913.3	870.2	828.4	789.8	758.5	730.8
20°	1193.0	1140.2	1076.0	1025.0	962.6	909.8	860.0	813.4	773.1	739.7	711.1
22.5°	1210.6	1149.5	1085.3	1018.2	956.2	900.1	845.6	798.7	757.5	722.4	694.9
25°	1220.1	1150.1	1080.3	1013.6	943.2	876.8	827.4	772.3	728.3	691.3	661.9
27.5°	1221.2	1146.2	1067.4	993.3	920.6	858.8	796.3	747.1	701.4	662.2	634.0
30°	1217.9	1139.8	1055.1	974.8	901.8	834.6	780.4	726.9	680.2	641.4	612.1
32.5°	1207.6	1126.2	1039.2	954.2	878.6	812.9	757.0	706.1	660.6	622.4	591.5
35°	1177.9	1097.6	1004.8	916.4	839.1	772.7	722.1	670.3	624.9	588.6	558.9
37.5°	1131.5	1058.9	964.6	873.1	797.1	730.5	680.2	633.6	592.6	555.6	525.2
40°	1091.0	1027.2	932.6	843.5	761.3	697.9	650.9	608.0	567.3	532.4	503.5
42.5°	1044.3	988.7	901.4	807.1	727.8	664.1	618.4	579.9	541.5	509.3	480.3
45°	961.2	924.5	842.4	755.1	672.6	612.5	568.8	535.1	502.8	471.3	447.0
47.5°	865.5	847.3	778.2	695.3	617.0	557.7	519.9	488.7	460.4	433.7	412.4
50°	801.3	792.5	732.7	652.8	578.0	522.3	484.1	457.3	433.1	409.6	389.5
52.5°	737.9	737.6	683.7	610.5	541.3	487.6	449.8	424.7	403.8	384.7	366.6
55°	641.0	651.3	609.2	543.8	481.9	433.5	399.4	377.0	362.3	346.6	333.0
57.5°	552.0	569.1	534.3	476.8	425.1	380.5	350.8	334.0	318.4	308.9	299.0
60°	494.0	510.1	483.0	434.6	385.8	347.6	319.4	304.3	290.8	284.2	277.2
62.5°	442.3	456.8	436.6	391.7	349.4	312.7	288.9	274.5	265.3	258.1	253.4
65°	368.5	380.7	363.4	330.8	294.5	265.1	245.7	234.3	225.6	222.6	217.4
67.5°	297.9	309.0	299.6	271.9	242.8	220.6	205.4	194.4	189.3	186.6	183.0
70°	256.0	267.0	257.0	232.9	210.5	191.8	177.5	171.3	165.8	164.7	159.6
72.5°	220.5	228.0	218.0	199.2	180.0	164.2	153.2	146.7	143.7	141.8	139.0
75°	165.4	172.0	165.4	150.7	137.1	126.1	116.6	114.0	110.7	109.6	107.8
77.5°	117.1	122.8	117.7	108.6	98.4	89.9	84.8	81.5	80.8	78.9	79.7
80°	89.4	93.1	88.4	82.2	74.1	68.2	64.6	62.7	60.5	59.8	61.3
82.5°	64.3	65.9	63.4	59.3	53.3	49.4	46.9	44.8	44.4	44.5	44.5
85°	33.4	33.0	32.6	28.9	27.1	24.6	23.1	22.7	22.3	23.1	23.8
87.5°	14.6	14.6	13.9	12.3	11.0	9.7	9.0	8.2	9.0	9.7	10.5
90°	17.3	15.6	14.0	12.1	9.7	7.4	5.1	2.8	5.1	7.4	9.7
92.5°	34.9	33.7	32.6	30.6	28.0	25.4	22.8	20.2	22.8	25.4	28.0
95°	68.6	67.1	65.6	64.0	62.1	60.2	58.3	56.5	58.3	60.2	62.1
97.5°	109.6	107.9	106.2	104.6	103.1	101.6	100.1	98.6	100.1	101.6	103.1
100°	140.2	138.3	136.4	135.1	134.2	133.4	132.5	131.7	132.5	133.4	134.2
102.5°	172.1	170.4	168.7	167.7	167.3	167.0	166.6	166.4	166.6	167.0	167.3
105°	222.3	221.4	220.6	220.1	219.8	219.6	219.4	219.2	219.4	219.6	219.8
107.5°	276.2	276.1	275.9	275.7	275.5	275.2	274.9	274.8	274.9	275.2	275.5
110°	313.7	313.9	314.1	314.1	313.6	313.2	312.7	312.4	312.7	313.2	313.6



TEST NUMBER: P332563-830

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	350.9	351.3	351.7	351.9	351.8	351.7	351.6	351.5	351.6	351.7	351.8
115°	409.2	409.5	410.0	410.2	410.2	410.2	410.2	410.2	410.2	410.2	410.2
117.5°	465.5	465.8	466.1	466.2	466.0	465.8	465.7	465.5	465.7	465.8	466.0
120°	504.5	505.2	505.9	505.8	504.9	504.1	503.2	502.4	503.2	504.1	504.9
122.5°	541.5	541.9	542.2	542.1	541.8	541.4	541.1	540.7	541.1	541.4	541.8
125°	596.9	597.1	597.3	597.4	597.4	597.4	597.4	597.4	597.4	597.4	597.4
127.5°	650.7	651.1	651.4	651.3	650.6	650.0	649.4	648.8	649.4	650.0	650.6
130°	687.7	687.7	687.7	687.4	686.7	686.2	685.5	684.9	685.5	686.2	686.7
132.5°	723.4	723.6	723.8	723.6	723.1	722.6	722.3	721.8	722.3	722.6	723.1
135°	776.2	776.2	776.2	775.5	774.3	773.0	771.8	770.5	771.8	773.0	774.3
137.5°	827.1	826.7	826.3	826.0	825.3	824.7	824.2	823.6	824.2	824.7	825.3
140°	860.8	860.8	860.8	860.6	860.2	859.8	859.3	858.9	859.3	859.8	860.2
142.5°	892.8	893.0	893.1	893.0	892.6	892.1	891.7	891.3	891.7	892.1	892.6
145°	940.4	940.2	939.9	939.4	938.6	937.7	936.9	936.0	936.9	937.7	938.6
147.5°	984.6	984.8	985.0	984.5	983.5	982.5	981.5	980.5	981.5	982.5	983.5
150°	1011.3	1011.3	1011.3	1011.0	1010.1	1009.3	1008.4	1007.6	1008.4	1009.3	1010.1
152.5°	1035.9	1035.7	1035.5	1035.2	1034.7	1034.2	1033.7	1033.2	1033.7	1034.2	1034.7
155°	1072.0	1072.1	1072.4	1072.5	1072.5	1072.5	1072.5	1072.5	1072.5	1072.5	1072.5
157.5°	1103.8	1103.8	1103.9	1104.1	1104.5	1104.8	1105.2	1105.6	1105.2	1104.8	1104.5
160°	1123.7	1123.9	1124.2	1124.4	1124.5	1124.7	1124.9	1125.2	1124.9	1124.7	1124.5
162.5°	1140.3	1140.5	1140.7	1141.0	1141.6	1142.2	1142.7	1143.2	1142.7	1142.2	1141.6
165°	1163.7	1164.0	1164.5	1165.0	1165.6	1166.3	1166.9	1167.5	1166.9	1166.3	1165.6
167.5°	1182.3	1182.2	1182.2	1182.6	1183.6	1184.4	1185.2	1186.2	1185.2	1184.4	1183.6
170°	1192.5	1192.3	1192.0	1192.5	1193.5	1194.6	1195.6	1196.7	1195.6	1194.6	1193.5
172.5°	1200.3	1200.3	1200.2	1200.7	1201.6	1202.5	1203.3	1204.2	1203.3	1202.5	1201.6
175°	1209.3	1209.6	1209.8	1210.4	1211.4	1212.5	1213.5	1214.6	1213.5	1212.5	1211.4
177.5°	1214.2	1214.2	1214.2	1214.6	1215.4	1216.3	1217.1	1218.0	1217.1	1216.3	1215.4
180°	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4



TEST NUMBER: P332563-830

CATALOG NUMBER: SA4XXDIP-C575D1035U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2
2.5°	868.3	865.6	861.8	856.5	852.2	847.4	846.2	844.5	848.0	845.1	844.2
5°	839.8	832.1	822.2	810.9	804.3	794.7	792.9	789.2	785.5	785.1	781.5
7.5°	809.6	798.3	785.4	773.8	763.1	752.7	745.8	744.4	739.0	735.8	732.2
10°	790.3	776.4	761.3	750.4	737.8	726.9	719.2	714.7	711.1	707.0	703.4
12.5°	767.4	752.6	740.2	728.3	713.5	705.1	692.5	684.9	684.1	684.2	674.7
15°	740.7	726.1	707.0	690.2	682.1	666.0	659.0	650.2	644.7	639.2	634.8
17.5°	710.4	692.1	677.2	657.8	642.4	629.6	620.4	615.1	606.9	599.1	593.4
20°	691.3	671.8	656.1	635.6	618.7	602.9	595.2	587.9	581.6	575.0	568.8
22.5°	671.9	651.6	632.4	612.4	596.6	580.0	572.6	562.6	556.7	553.0	546.8
25°	641.4	619.4	597.4	578.3	562.2	547.5	537.6	529.9	523.3	520.4	516.3
27.5°	608.2	586.4	565.1	543.5	525.2	514.5	506.6	500.8	497.0	493.1	491.3
30°	587.1	564.4	541.7	521.5	504.6	494.0	486.6	482.6	479.7	477.9	476.0
32.5°	565.7	543.3	519.3	501.0	485.9	476.4	470.8	466.7	465.3	464.7	464.0
35°	531.4	508.7	486.6	470.1	455.8	452.1	447.4	445.2	444.5	447.0	448.2
37.5°	498.1	477.0	456.8	440.8	431.4	426.0	424.4	424.5	427.2	429.4	432.1
40°	476.7	456.2	437.2	423.2	414.4	411.1	410.4	412.2	415.1	417.7	420.7
42.5°	455.9	435.6	418.4	405.3	399.2	396.2	396.6	398.4	402.6	405.7	410.1
45°	423.6	406.7	389.8	379.2	374.1	374.8	374.8	378.1	382.1	386.9	391.6
47.5°	393.1	376.1	362.2	353.3	350.6	350.0	352.0	356.4	362.2	368.1	374.8
50°	372.6	356.5	344.3	336.3	333.4	334.4	337.4	341.4	348.4	355.7	362.7
52.5°	351.8	337.1	325.8	318.4	316.3	318.3	321.2	327.6	333.8	341.7	350.1
55°	319.4	307.0	298.1	292.7	291.9	293.0	296.3	303.3	312.1	322.0	330.1
57.5°	287.2	276.8	268.7	264.9	265.3	266.4	271.7	280.0	289.5	300.0	310.4
60°	265.5	256.0	249.4	246.5	246.9	249.0	255.6	263.3	275.0	285.3	296.3
62.5°	245.0	236.6	230.3	227.6	227.2	232.0	238.3	246.3	258.1	269.5	281.3
65°	212.0	205.4	200.2	198.8	199.8	203.5	211.6	222.3	232.1	244.2	256.7
67.5°	179.6	174.3	170.8	171.4	172.8	178.1	184.9	194.1	205.3	217.8	230.2
70°	159.2	154.0	151.1	151.5	153.6	160.2	166.2	175.3	187.4	200.2	210.5
72.5°	138.1	134.7	132.1	133.6	135.7	140.3	147.6	156.8	167.5	179.4	190.3
75°	105.9	105.9	104.5	105.7	109.0	113.3	118.9	128.4	139.0	148.5	157.3
77.5°	78.6	77.9	78.8	80.1	82.0	87.2	93.5	100.4	108.3	117.9	125.2
80°	60.1	60.5	62.3	64.6	65.3	69.3	75.9	82.2	88.4	96.4	103.4
82.5°	45.1	45.5	46.5	49.3	50.0	54.4	58.6	64.8	70.5	75.9	81.7
85°	24.6	24.6	26.4	27.5	29.3	32.2	34.9	38.5	43.6	47.3	52.8
87.5°	11.8	12.2	13.7	14.6	15.8	17.6	18.5	22.0	23.4	25.1	27.9
90°	12.1	14.0	15.6	17.3	19.0	20.7	22.0	23.2	24.5	25.7	26.6
92.5°	30.6	32.6	33.7	34.9	36.1	37.2	38.0	38.7	39.5	40.2	40.8
95°	64.0	65.6	67.1	68.6	70.0	71.5	72.1	72.8	73.4	74.0	74.4
97.5°	104.6	106.2	107.9	109.6	111.4	113.1	113.9	114.6	115.4	116.1	116.5
100°	135.1	136.4	138.3	140.2	142.0	143.9	144.4	144.8	145.2	145.6	145.8
102.5°	167.7	168.7	170.4	172.1	173.8	175.6	176.2	176.7	177.3	177.9	178.2
105°	220.1	220.6	221.4	222.3	223.1	223.9	224.5	225.2	225.8	226.4	227.1
107.5°	275.7	275.9	276.1	276.2	276.3	276.4	277.0	277.6	278.1	278.7	279.0
110°	314.1	314.1	313.9	313.7	313.5	313.3	312.8	312.5	312.0	311.6	311.7



TEST NUMBER: P332563-830

CATALOG NUMBER: SA4XXDIP-C575D1035U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	351.9	351.7	351.3	350.9	350.5	350.2	350.1	350.0	349.9	349.9	349.9
115°	410.2	410.0	409.5	409.2	408.7	408.3	408.1	407.8	407.6	407.5	407.3
117.5°	466.2	466.1	465.8	465.5	465.2	465.0	464.2	463.5	462.8	462.1	461.6
120°	505.8	505.9	505.2	504.5	504.0	503.3	502.3	501.2	500.2	499.2	498.8
122.5°	542.1	542.2	541.9	541.5	541.2	540.9	540.3	539.5	538.9	538.1	537.3
125°	597.4	597.3	597.1	596.9	596.6	596.4	596.1	595.6	595.2	594.7	594.4
127.5°	651.3	651.4	651.1	650.7	650.4	650.1	649.7	649.2	648.8	648.4	648.0
130°	687.4	687.7	687.7	687.7	687.7	687.7	687.3	686.9	686.5	686.1	685.4
132.5°	723.6	723.8	723.6	723.4	723.2	723.1	722.6	722.3	721.8	721.4	721.0
135°	775.5	776.2	776.2	776.2	776.2	776.2	775.7	775.3	774.9	774.5	773.9
137.5°	826.0	826.3	826.7	827.1	827.4	827.7	827.2	826.6	826.0	825.6	825.3
140°	860.6	860.8	860.8	860.8	860.8	860.8	860.6	860.4	860.2	860.0	859.8
142.5°	893.0	893.1	893.0	892.8	892.6	892.4	892.4	892.3	892.3	892.3	892.2
145°	939.4	939.9	940.2	940.4	940.6	940.8	940.6	940.4	940.2	939.9	939.5
147.5°	984.5	985.0	984.8	984.6	984.4	984.3	984.1	983.9	983.7	983.5	983.4
150°	1011.0	1011.3	1011.3	1011.3	1011.3	1011.3	1011.3	1011.3	1011.3	1011.3	1011.3
152.5°	1035.2	1035.5	1035.7	1035.9	1036.0	1036.1	1036.7	1037.2	1037.6	1038.2	1038.2
155°	1072.5	1072.4	1072.1	1072.0	1071.8	1071.6	1072.4	1073.3	1074.0	1074.9	1074.9
157.5°	1104.1	1103.9	1103.8	1103.8	1103.8	1103.7	1104.4	1104.9	1105.6	1106.3	1106.2
160°	1124.4	1124.2	1123.9	1123.7	1123.5	1123.3	1123.9	1124.5	1125.2	1125.8	1125.6
162.5°	1141.0	1140.7	1140.5	1140.3	1140.1	1139.8	1140.9	1142.1	1143.2	1144.3	1144.4
165°	1165.0	1164.5	1164.0	1163.7	1163.2	1162.8	1164.0	1165.4	1166.6	1167.8	1168.0
167.5°	1182.6	1182.2	1182.2	1182.3	1182.3	1182.4	1183.6	1184.9	1186.2	1187.4	1187.4
170°	1192.5	1192.0	1192.3	1192.5	1192.7	1192.9	1194.2	1195.4	1196.7	1198.0	1197.8
172.5°	1200.7	1200.2	1200.3	1200.3	1200.4	1200.4	1201.8	1203.2	1204.7	1206.2	1206.1
175°	1210.4	1209.8	1209.6	1209.3	1209.1	1208.9	1210.4	1211.8	1213.3	1214.7	1214.7
177.5°	1214.6	1214.2	1214.2	1214.2	1214.2	1214.2	1215.3	1216.5	1217.7	1218.9	1218.8
180°	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4



TEST NUMBER: P332563-830

CATALOG NUMBER: SA4XXDIP-C575D1035U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2
2.5°	843.6	843.0	840.9	840.7	840.9	843.0	843.6	844.2	845.1	848.0	844.5
5°	779.3	777.5	776.4	780.4	776.4	777.5	779.3	781.5	785.1	785.5	789.2
7.5°	730.8	729.3	726.1	725.1	726.1	729.3	730.8	732.2	735.8	739.0	744.4
10°	699.7	698.2	695.3	694.6	695.3	698.2	699.7	703.4	707.0	711.1	714.7
12.5°	669.8	666.8	666.3	667.0	666.3	666.8	669.8	674.7	684.2	684.1	684.9
15°	630.0	628.6	624.5	625.7	624.5	628.6	630.0	634.8	639.2	644.7	650.2
17.5°	590.9	589.1	584.2	588.5	584.2	589.1	590.9	593.4	599.1	606.9	615.1
20°	566.2	563.3	560.7	560.3	560.7	563.3	566.2	568.8	575.0	581.6	587.9
22.5°	542.7	540.1	539.9	537.4	539.9	540.1	542.7	546.8	553.0	556.7	562.6
25°	513.4	510.9	510.1	508.3	510.1	510.9	513.4	516.3	520.4	523.3	529.9
27.5°	490.9	489.7	488.3	488.9	488.3	489.7	490.9	491.3	493.1	497.0	500.8
30°	477.1	476.7	476.0	476.0	476.0	476.7	477.1	476.0	477.9	479.7	482.6
32.5°	465.7	465.6	466.0	466.0	466.0	465.6	465.7	464.0	464.7	465.3	466.7
35°	449.6	450.7	451.5	450.3	451.5	450.7	449.6	448.2	447.0	444.5	445.2
37.5°	435.1	436.2	437.2	438.5	437.2	436.2	435.1	432.1	429.4	427.2	424.5
40°	424.0	426.5	427.3	429.0	427.3	426.5	424.0	420.7	417.7	415.1	412.2
42.5°	413.4	416.2	418.1	418.5	418.1	416.2	413.4	410.1	405.7	402.6	398.4
45°	397.2	400.1	402.7	402.7	402.7	400.1	397.2	391.6	386.9	382.1	378.1
47.5°	380.4	384.7	387.2	387.9	387.2	384.7	380.4	374.8	368.1	362.2	356.4
50°	368.9	374.1	376.6	378.4	376.6	374.1	368.9	362.7	355.7	348.4	341.4
52.5°	357.8	362.9	366.4	367.3	366.4	362.9	357.8	350.1	341.7	333.8	327.6
55°	338.5	345.8	349.9	351.3	349.9	345.8	338.5	330.1	322.0	312.1	303.3
57.5°	320.3	327.1	331.8	332.8	331.8	327.1	320.3	310.4	300.0	289.5	280.0
60°	306.2	313.6	319.4	320.6	319.4	313.6	306.2	296.3	285.3	275.0	263.3
62.5°	291.8	299.4	304.7	307.6	304.7	299.4	291.8	281.3	269.5	258.1	246.3
65°	267.0	274.7	279.8	280.9	279.8	274.7	267.0	256.7	244.2	232.1	222.3
67.5°	239.9	247.5	250.9	253.1	250.9	247.5	239.9	230.2	217.8	205.3	194.1
70°	220.7	227.0	230.6	232.5	230.6	227.0	220.7	210.5	200.2	187.4	175.3
72.5°	199.1	205.6	209.8	210.2	209.8	205.6	199.1	190.3	179.4	167.5	156.8
75°	165.8	171.6	173.8	173.8	173.8	171.6	165.8	157.3	148.5	139.0	128.4
77.5°	131.2	134.2	137.0	137.6	137.0	134.2	131.2	125.2	117.9	108.3	100.4
80°	109.0	110.7	112.9	112.9	112.9	110.7	109.0	103.4	96.4	88.4	82.2
82.5°	86.1	87.6	89.7	89.4	89.7	87.6	86.1	81.7	75.9	70.5	64.8
85°	52.0	55.4	55.0	54.3	55.0	55.4	52.0	52.8	47.3	43.6	38.5
87.5°	28.8	29.2	30.2	30.9	30.2	29.2	28.8	27.9	25.1	23.4	22.0
90°	27.0	27.4	27.8	28.2	27.8	27.4	27.0	26.6	25.7	24.5	23.2
92.5°	41.0	41.3	41.6	41.8	41.6	41.3	41.0	40.8	40.2	39.5	38.7
95°	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.0	73.4	72.8
97.5°	116.5	116.5	116.5	116.5	116.5	116.5	116.5	116.5	116.1	115.4	114.6
100°	145.8	145.8	145.8	145.8	145.8	145.8	145.8	145.8	145.6	145.2	144.8
102.5°	178.4	178.6	178.8	178.9	178.8	178.6	178.4	178.2	177.9	177.3	176.7
105°	227.6	228.3	228.9	229.5	228.9	228.3	227.6	227.1	226.4	225.8	225.2
107.5°	279.0	278.9	278.9	278.8	278.9	278.9	279.0	279.0	278.7	278.1	277.6
110°	312.4	312.9	313.6	314.2	313.6	312.9	312.4	311.7	311.6	312.0	312.5



TEST NUMBER: P332563-830

CATALOG NUMBER: SA4XXDIP-C575D1035U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	350.0	350.1	350.2	350.3	350.2	350.1	350.0	349.9	349.9	349.9	350.0
115°	407.1	406.8	406.6	406.4	406.6	406.8	407.1	407.3	407.5	407.6	407.8
117.5°	461.1	460.7	460.2	459.9	460.2	460.7	461.1	461.6	462.1	462.8	463.5
120°	499.3	499.6	500.1	500.5	500.1	499.6	499.3	498.8	499.2	500.2	501.2
122.5°	536.6	535.8	535.1	534.3	535.1	535.8	536.6	537.3	538.1	538.9	539.5
125°	594.0	593.5	593.1	592.7	593.1	593.5	594.0	594.4	594.7	595.2	595.6
127.5°	647.7	647.3	647.1	646.7	647.1	647.3	647.7	648.0	648.4	648.8	649.2
130°	684.6	683.7	682.9	682.0	682.9	683.7	684.6	685.4	686.1	686.5	686.9
132.5°	720.7	720.4	720.0	719.7	720.0	720.4	720.7	721.0	721.4	721.8	722.3
135°	773.4	772.7	772.0	771.5	772.0	772.7	773.4	773.9	774.5	774.9	775.3
137.5°	825.5	825.6	825.7	825.9	825.7	825.6	825.5	825.3	825.6	826.0	826.6
140°	859.6	859.3	859.1	858.9	859.1	859.3	859.6	859.8	860.0	860.2	860.4
142.5°	892.2	892.1	892.1	892.0	892.1	892.1	892.2	892.2	892.3	892.3	892.3
145°	938.9	938.3	937.6	937.0	937.6	938.3	938.9	939.5	939.9	940.2	940.4
147.5°	983.2	983.0	982.8	982.6	982.8	983.0	983.2	983.4	983.5	983.7	983.9
150°	1011.1	1010.8	1010.6	1010.4	1010.6	1010.8	1011.1	1011.3	1011.3	1011.3	1011.3
152.5°	1037.6	1037.1	1036.5	1035.9	1036.5	1037.1	1037.6	1038.2	1038.2	1037.6	1037.2
155°	1074.0	1073.3	1072.4	1071.6	1072.4	1073.3	1074.0	1074.9	1074.9	1074.0	1073.3
157.5°	1105.5	1104.8	1104.1	1103.3	1104.1	1104.8	1105.5	1106.2	1106.3	1105.6	1104.9
160°	1124.5	1123.5	1122.5	1121.4	1122.5	1123.5	1124.5	1125.6	1125.8	1125.2	1124.5
162.5°	1143.4	1142.4	1141.3	1140.2	1141.3	1142.4	1143.4	1144.4	1144.3	1143.2	1142.1
165°	1167.2	1166.4	1165.5	1164.7	1165.5	1166.4	1167.2	1168.0	1167.8	1166.6	1165.4
167.5°	1186.1	1184.8	1183.5	1182.2	1183.5	1184.8	1186.1	1187.4	1187.4	1186.2	1184.9
170°	1196.4	1194.9	1193.4	1191.9	1193.4	1194.9	1196.4	1197.8	1198.0	1196.7	1195.4
172.5°	1204.7	1203.2	1201.7	1200.2	1201.7	1203.2	1204.7	1206.1	1206.2	1204.7	1203.2
175°	1213.3	1211.8	1210.4	1208.9	1210.4	1211.8	1213.3	1214.7	1214.7	1213.3	1211.8
177.5°	1217.5	1216.1	1214.7	1213.4	1214.7	1216.1	1217.5	1218.8	1218.9	1217.7	1216.5
180°	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4



TEST NUMBER: P332563-830

CATALOG NUMBER: SA4XXDIP-C575D1035U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2
2.5°	846.2	847.4	852.2	856.5	861.8	865.6	868.3	871.2	877.3	882.3	887.0
5°	792.9	794.7	804.3	810.9	822.2	832.1	839.8	848.2	858.2	871.7	884.2
7.5°	745.8	752.7	763.1	773.8	785.4	798.3	809.6	822.4	839.4	858.1	877.3
10°	719.2	726.9	737.8	750.4	761.3	776.4	790.3	805.3	824.7	847.5	870.2
12.5°	692.5	705.1	713.5	728.3	740.2	752.6	767.4	787.1	809.8	833.7	861.1
15°	659.0	666.0	682.1	690.2	707.0	726.1	740.7	760.6	782.6	814.2	844.9
17.5°	620.4	629.6	642.4	657.8	677.2	692.1	710.4	730.8	758.5	789.8	828.4
20°	595.2	602.9	618.7	635.6	656.1	671.8	691.3	711.1	739.7	773.1	813.4
22.5°	572.6	580.0	596.6	612.4	632.4	651.6	671.9	694.9	722.4	757.5	798.7
25°	537.6	547.5	562.2	578.3	597.4	619.4	641.4	661.9	691.3	728.3	772.3
27.5°	506.6	514.5	525.2	543.5	565.1	586.4	608.2	634.0	662.2	701.4	747.1
30°	486.6	494.0	504.6	521.5	541.7	564.4	587.1	612.1	641.4	680.2	726.9
32.5°	470.8	476.4	485.9	501.0	519.3	543.3	565.7	591.5	622.4	660.6	706.1
35°	447.4	452.1	455.8	470.1	486.6	508.7	531.4	558.9	588.6	624.9	670.3
37.5°	424.4	426.0	431.4	440.8	456.8	477.0	498.1	525.2	555.6	592.6	633.6
40°	410.4	411.1	414.4	423.2	437.2	456.2	476.7	503.5	532.4	567.3	608.0
42.5°	396.6	396.2	399.2	405.3	418.4	435.6	455.9	480.3	509.3	541.5	579.9
45°	374.8	374.8	374.1	379.2	389.8	406.7	423.6	447.0	471.3	502.8	535.1
47.5°	352.0	350.0	350.6	353.3	362.2	376.1	393.1	412.4	433.7	460.4	488.7
50°	337.4	334.4	333.4	336.3	344.3	356.5	372.6	389.5	409.6	433.1	457.3
52.5°	321.2	318.3	316.3	318.4	325.8	337.1	351.8	366.6	384.7	403.8	424.7
55°	296.3	293.0	291.9	292.7	298.1	307.0	319.4	333.0	346.6	362.3	377.0
57.5°	271.7	266.4	265.3	264.9	268.7	276.8	287.2	299.0	308.9	318.4	334.0
60°	255.6	249.0	246.9	246.5	249.4	256.0	265.5	277.2	284.2	290.8	304.3
62.5°	238.3	232.0	227.2	227.6	230.3	236.6	245.0	253.4	258.1	265.3	274.5
65°	211.6	203.5	199.8	198.8	200.2	205.4	212.0	217.4	222.6	225.6	234.3
67.5°	184.9	178.1	172.8	171.4	170.8	174.3	179.6	183.0	186.6	189.3	194.4
70°	166.2	160.2	153.6	151.5	151.1	154.0	159.2	159.6	164.7	165.8	171.3
72.5°	147.6	140.3	135.7	133.6	132.1	134.7	138.1	139.0	141.8	143.7	146.7
75°	118.9	113.3	109.0	105.7	104.5	105.9	105.9	107.8	109.6	110.7	114.0
77.5°	93.5	87.2	82.0	80.1	78.8	77.9	78.6	79.7	78.9	80.8	81.5
80°	75.9	69.3	65.3	64.6	62.3	60.5	60.1	61.3	59.8	60.5	62.7
82.5°	58.6	54.4	50.0	49.3	46.5	45.5	45.1	44.5	44.5	44.4	44.8
85°	34.9	32.2	29.3	27.5	26.4	24.6	24.6	23.8	23.1	22.3	22.7
87.5°	18.5	17.6	15.8	14.6	13.7	12.2	11.8	10.5	9.7	9.0	8.2
90°	22.0	20.7	19.0	17.3	15.6	14.0	12.1	9.7	7.4	5.1	2.8
92.5°	38.0	37.2	36.1	34.9	33.7	32.6	30.6	28.0	25.4	22.8	20.2
95°	72.1	71.5	70.0	68.6	67.1	65.6	64.0	62.1	60.2	58.3	56.5
97.5°	113.9	113.1	111.4	109.6	107.9	106.2	104.6	103.1	101.6	100.1	98.6
100°	144.4	143.9	142.0	140.2	138.3	136.4	135.1	134.2	133.4	132.5	131.7
102.5°	176.2	175.6	173.8	172.1	170.4	168.7	167.7	167.3	167.0	166.6	166.4
105°	224.5	223.9	223.1	222.3	221.4	220.6	220.1	219.8	219.6	219.4	219.2
107.5°	277.0	276.4	276.3	276.2	276.1	275.9	275.7	275.5	275.2	274.9	274.8
110°	312.8	313.3	313.5	313.7	313.9	314.1	314.1	313.6	313.2	312.7	312.4



TEST NUMBER: P332563-830

CATALOG NUMBER: SA4XXDIP-C575D1035U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	350.1	350.2	350.5	350.9	351.3	351.7	351.9	351.8	351.7	351.6	351.5
115°	408.1	408.3	408.7	409.2	409.5	410.0	410.2	410.2	410.2	410.2	410.2
117.5°	464.2	465.0	465.2	465.5	465.8	466.1	466.2	466.0	465.8	465.7	465.5
120°	502.3	503.3	504.0	504.5	505.2	505.9	505.8	504.9	504.1	503.2	502.4
122.5°	540.3	540.9	541.2	541.5	541.9	542.2	542.1	541.8	541.4	541.1	540.7
125°	596.1	596.4	596.6	596.9	597.1	597.3	597.4	597.4	597.4	597.4	597.4
127.5°	649.7	650.1	650.4	650.7	651.1	651.4	651.3	650.6	650.0	649.4	648.8
130°	687.3	687.7	687.7	687.7	687.7	687.7	687.4	686.7	686.2	685.5	684.9
132.5°	722.6	723.1	723.2	723.4	723.6	723.8	723.6	723.1	722.6	722.3	721.8
135°	775.7	776.2	776.2	776.2	776.2	776.2	775.5	774.3	773.0	771.8	770.5
137.5°	827.2	827.7	827.4	827.1	826.7	826.3	826.0	825.3	824.7	824.2	823.6
140°	860.6	860.8	860.8	860.8	860.8	860.8	860.6	860.2	859.8	859.3	858.9
142.5°	892.4	892.4	892.6	892.8	893.0	893.1	893.0	892.6	892.1	891.7	891.3
145°	940.6	940.8	940.6	940.4	940.2	939.9	939.4	938.6	937.7	936.9	936.0
147.5°	984.1	984.3	984.4	984.6	984.8	985.0	984.5	983.5	982.5	981.5	980.5
150°	1011.3	1011.3	1011.3	1011.3	1011.3	1011.3	1011.0	1010.1	1009.3	1008.4	1007.6
152.5°	1036.7	1036.1	1036.0	1035.9	1035.7	1035.5	1035.2	1034.7	1034.2	1033.7	1033.2
155°	1072.4	1071.6	1071.8	1072.0	1072.1	1072.4	1072.5	1072.5	1072.5	1072.5	1072.5
157.5°	1104.4	1103.7	1103.8	1103.8	1103.8	1103.9	1104.1	1104.5	1104.8	1105.2	1105.6
160°	1123.9	1123.3	1123.5	1123.7	1123.9	1124.2	1124.4	1124.5	1124.7	1124.9	1125.2
162.5°	1140.9	1139.8	1140.1	1140.3	1140.5	1140.7	1141.0	1141.6	1142.2	1142.7	1143.2
165°	1164.0	1162.8	1163.2	1163.7	1164.0	1164.5	1165.0	1165.6	1166.3	1166.9	1167.5
167.5°	1183.6	1182.4	1182.3	1182.3	1182.2	1182.2	1182.6	1183.6	1184.4	1185.2	1186.2
170°	1194.2	1192.9	1192.7	1192.5	1192.3	1192.0	1192.5	1193.5	1194.6	1195.6	1196.7
172.5°	1201.8	1200.4	1200.4	1200.3	1200.3	1200.2	1200.7	1201.6	1202.5	1203.3	1204.2
175°	1210.4	1208.9	1209.1	1209.3	1209.6	1209.8	1210.4	1211.4	1212.5	1213.5	1214.6
177.5°	1215.3	1214.2	1214.2	1214.2	1214.2	1214.2	1214.6	1215.4	1216.3	1217.1	1218.0
180°	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4



TEST NUMBER: P332563-830

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2
2.5°	891.2	894.1	897.9	904.4	906.7	909.6	913.7	913.4	914.6	919.0	928.4
5°	894.5	905.8	916.8	930.0	944.0	953.1	965.6	973.3	981.0	990.9	1007.8
7.5°	895.8	913.8	934.0	957.2	977.8	1001.5	1020.1	1037.6	1053.3	1074.2	1094.3
10°	893.7	917.9	944.0	973.3	1004.5	1030.9	1054.7	1081.9	1104.9	1130.2	1153.0
12.5°	889.9	919.1	953.9	986.7	1023.2	1062.2	1091.9	1119.4	1150.1	1179.2	1214.3
15°	881.3	921.2	962.0	1005.2	1054.0	1099.1	1142.0	1177.5	1210.6	1254.2	1300.0
17.5°	870.2	913.3	964.7	1017.1	1068.1	1119.6	1172.7	1226.2	1267.8	1322.0	1357.9
20°	860.0	909.8	962.6	1025.0	1076.0	1140.2	1193.0	1244.6	1301.8	1355.8	1398.7
22.5°	845.6	900.1	956.2	1018.2	1085.3	1149.5	1210.6	1266.7	1323.9	1382.5	1434.5
25°	827.4	876.8	943.2	1013.6	1080.3	1150.1	1220.1	1290.5	1352.1	1414.1	1462.5
27.5°	796.3	858.8	920.6	993.3	1067.4	1146.2	1221.2	1294.9	1359.3	1410.3	1440.4
30°	780.4	834.6	901.8	974.8	1055.1	1139.8	1217.9	1290.2	1350.3	1391.0	1403.1
32.5°	757.0	812.9	878.6	954.2	1039.2	1126.2	1207.6	1275.7	1326.0	1347.3	1332.7
35°	722.1	772.7	839.1	916.4	1004.8	1097.6	1177.9	1235.5	1261.2	1241.0	1190.7
37.5°	680.2	730.5	797.1	873.1	964.6	1058.9	1131.5	1172.9	1164.4	1114.3	1039.3
40°	650.9	697.9	761.3	843.5	932.6	1027.2	1091.0	1113.4	1090.0	1018.0	938.5
42.5°	618.4	664.1	727.8	807.1	901.4	988.7	1044.3	1046.2	1006.9	921.0	841.0
45°	568.8	612.5	672.6	755.1	842.4	924.5	961.2	943.2	870.6	787.7	707.4
47.5°	519.9	557.7	617.0	695.3	778.2	847.3	865.5	833.2	755.8	675.3	600.9
50°	484.1	522.3	578.0	652.8	732.7	792.5	801.3	758.4	682.5	601.4	543.1
52.5°	449.8	487.6	541.3	610.5	683.7	737.6	737.9	688.2	612.7	540.5	486.2
55°	399.4	433.5	481.9	543.8	609.2	651.3	641.0	589.7	524.1	461.4	414.1
57.5°	350.8	380.5	425.1	476.8	534.3	569.1	552.0	502.7	444.0	390.9	355.0
60°	319.4	347.6	385.8	434.6	483.0	510.1	494.0	449.2	395.3	352.4	321.2
62.5°	288.9	312.7	349.4	391.7	436.6	456.8	442.3	398.2	351.7	312.8	287.5
65°	245.7	265.1	294.5	330.8	363.4	380.7	368.5	327.4	291.9	264.0	243.8
67.5°	205.4	220.6	242.8	271.9	299.6	309.0	297.9	269.3	239.2	216.9	202.6
70°	177.5	191.8	210.5	232.9	257.0	267.0	256.0	233.3	208.7	188.1	174.2
72.5°	153.2	164.2	180.0	199.2	218.0	228.0	220.5	198.6	177.9	162.6	150.7
75°	116.6	126.1	137.1	150.7	165.4	172.0	165.4	150.3	136.0	124.7	116.2
77.5°	84.8	89.9	98.4	108.6	117.7	122.8	117.1	106.9	98.1	90.4	86.1
80°	64.6	68.2	74.1	82.2	88.4	93.1	89.4	81.1	74.1	68.9	67.1
82.5°	46.9	49.4	53.3	59.3	63.4	65.9	64.3	58.2	55.3	50.7	48.9
85°	23.1	24.6	27.1	28.9	32.6	33.0	33.4	30.8	28.3	27.1	25.6
87.5°	9.0	9.7	11.0	12.3	13.9	14.6	14.6	15.0	14.1	14.0	13.2
90°	5.1	7.4	9.7	12.1	14.0	15.6	17.3	19.0	20.7	22.0	23.2
92.5°	22.8	25.4	28.0	30.6	32.6	33.7	34.9	36.1	37.2	38.0	38.7
95°	58.3	60.2	62.1	64.0	65.6	67.1	68.6	70.0	71.5	72.1	72.8
97.5°	100.1	101.6	103.1	104.6	106.2	107.9	109.6	111.4	113.1	113.9	114.6
100°	132.5	133.4	134.2	135.1	136.4	138.3	140.2	142.0	143.9	144.4	144.8
102.5°	166.6	167.0	167.3	167.7	168.7	170.4	172.1	173.8	175.6	176.2	176.7
105°	219.4	219.6	219.8	220.1	220.6	221.4	222.3	223.1	223.9	224.5	225.2
107.5°	274.9	275.2	275.5	275.7	275.9	276.1	276.2	276.3	276.4	277.0	277.6
110°	312.7	313.2	313.6	314.1	314.1	313.9	313.7	313.5	313.3	312.8	312.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	351.6	351.7	351.8	351.9	351.7	351.3	350.9	350.5	350.2	350.1	350.0
115°	410.2	410.2	410.2	410.2	410.0	409.5	409.2	408.7	408.3	408.1	407.8
117.5°	465.7	465.8	466.0	466.2	466.1	465.8	465.5	465.2	465.0	464.2	463.5
120°	503.2	504.1	504.9	505.8	505.9	505.2	504.5	504.0	503.3	502.3	501.2
122.5°	541.1	541.4	541.8	542.1	542.2	541.9	541.5	541.2	540.9	540.3	539.5
125°	597.4	597.4	597.4	597.4	597.3	597.1	596.9	596.6	596.4	596.1	595.6
127.5°	649.4	650.0	650.6	651.3	651.4	651.1	650.7	650.4	650.1	649.7	649.2
130°	685.5	686.2	686.7	687.4	687.7	687.7	687.7	687.7	687.7	687.3	686.9
132.5°	722.3	722.6	723.1	723.6	723.8	723.6	723.4	723.2	723.1	722.6	722.3
135°	771.8	773.0	774.3	775.5	776.2	776.2	776.2	776.2	776.2	775.7	775.3
137.5°	824.2	824.7	825.3	826.0	826.3	826.7	827.1	827.4	827.7	827.2	826.6
140°	859.3	859.8	860.2	860.6	860.8	860.8	860.8	860.8	860.8	860.6	860.4
142.5°	891.7	892.1	892.6	893.0	893.1	893.0	892.8	892.6	892.4	892.4	892.3
145°	936.9	937.7	938.6	939.4	939.9	940.2	940.4	940.6	940.8	940.6	940.4
147.5°	981.5	982.5	983.5	984.5	985.0	984.8	984.6	984.4	984.3	984.1	983.9
150°	1008.4	1009.3	1010.1	1011.0	1011.3	1011.3	1011.3	1011.3	1011.3	1011.3	1011.3
152.5°	1033.7	1034.2	1034.7	1035.2	1035.5	1035.7	1035.9	1036.0	1036.1	1036.7	1037.2
155°	1072.5	1072.5	1072.5	1072.5	1072.4	1072.1	1072.0	1071.8	1071.6	1072.4	1073.3
157.5°	1105.2	1104.8	1104.5	1104.1	1103.9	1103.8	1103.8	1103.8	1103.7	1104.4	1104.9
160°	1124.9	1124.7	1124.5	1124.4	1124.2	1123.9	1123.7	1123.5	1123.3	1123.9	1124.5
162.5°	1142.7	1142.2	1141.6	1141.0	1140.7	1140.5	1140.3	1140.1	1139.8	1140.9	1142.1
165°	1166.9	1166.3	1165.6	1165.0	1164.5	1164.0	1163.7	1163.2	1162.8	1164.0	1165.4
167.5°	1185.2	1184.4	1183.6	1182.6	1182.2	1182.2	1182.3	1182.3	1182.4	1183.6	1184.9
170°	1195.6	1194.6	1193.5	1192.5	1192.0	1192.3	1192.5	1192.7	1192.9	1194.2	1195.4
172.5°	1203.3	1202.5	1201.6	1200.7	1200.2	1200.3	1200.3	1200.4	1200.4	1201.8	1203.2
175°	1213.5	1212.5	1211.4	1210.4	1209.8	1209.6	1209.3	1209.1	1208.9	1210.4	1211.8
177.5°	1217.1	1216.3	1215.4	1214.6	1214.2	1214.2	1214.2	1214.2	1214.2	1215.3	1216.5
180°	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	885.2	885.2	885.2	885.2	885.2	885.2	885.2
2.5°	933.1	933.7	936.3	938.4	939.0	941.9	942.2
5°	1015.1	1021.3	1033.4	1034.5	1036.3	1045.9	1038.6
7.5°	1111.2	1127.0	1137.6	1146.9	1150.3	1154.4	1153.6
10°	1172.8	1196.3	1208.0	1226.7	1227.5	1232.2	1229.3
12.5°	1234.7	1262.0	1283.4	1286.9	1302.5	1305.0	1309.1
15°	1322.4	1351.4	1381.1	1391.8	1413.3	1418.5	1426.5
17.5°	1404.9	1434.5	1455.3	1482.8	1491.7	1503.5	1495.5
20°	1450.0	1482.3	1508.7	1530.3	1539.5	1546.1	1545.4
22.5°	1477.3	1509.9	1531.3	1547.7	1556.2	1559.1	1558.9
25°	1494.4	1513.2	1519.8	1526.0	1516.5	1513.2	1514.6
27.5°	1446.9	1442.0	1424.8	1402.2	1378.8	1360.1	1350.0
30°	1381.5	1352.8	1326.8	1281.4	1257.8	1244.0	1231.4
32.5°	1288.7	1243.4	1193.4	1151.7	1124.9	1104.3	1101.2
35°	1129.9	1061.7	1000.4	949.4	923.0	900.7	895.5
37.5°	960.6	889.8	834.6	789.7	761.3	745.6	730.8
40°	848.2	787.4	733.1	694.9	673.4	661.9	652.8
42.5°	761.7	706.1	652.1	623.0	603.5	596.5	591.2
45°	642.2	590.4	553.0	531.0	519.6	507.9	502.4
47.5°	546.4	504.4	479.7	461.0	448.8	441.9	438.3
50°	492.1	457.7	435.6	421.4	410.4	404.8	401.9
52.5°	444.0	415.8	397.3	385.9	378.4	374.4	373.2
55°	382.5	360.9	349.1	339.2	333.8	330.1	328.6
57.5°	332.4	315.8	306.3	298.1	296.1	292.9	291.9
60°	299.6	286.8	278.7	273.2	271.4	267.7	268.4
62.5°	270.6	260.0	253.2	250.1	247.6	244.5	245.5
65°	228.8	221.1	217.4	214.5	211.6	209.8	211.2
67.5°	192.0	186.7	181.7	180.0	178.6	178.3	176.7
70°	168.0	163.5	159.2	158.1	158.1	156.6	156.2
72.5°	144.8	141.6	138.6	137.8	136.7	137.2	135.7
75°	111.9	109.2	108.2	107.1	106.7	106.7	105.7
77.5°	82.7	80.8	79.0	79.0	77.7	77.2	77.0
80°	62.7	62.0	60.5	60.5	59.8	60.1	59.4
82.5°	47.1	46.1	45.8	45.2	44.2	44.3	43.5
85°	25.3	24.2	23.8	22.7	22.0	22.7	22.0
87.5°	13.7	13.7	13.5	13.0	12.8	12.9	12.1
90°	24.5	25.7	26.6	27.0	27.4	27.8	28.2
92.5°	39.5	40.2	40.8	41.0	41.3	41.6	41.8
95°	73.4	74.0	74.4	74.4	74.4	74.4	74.4
97.5°	115.4	116.1	116.5	116.5	116.5	116.5	116.5
100°	145.2	145.6	145.8	145.8	145.8	145.8	145.8
102.5°	177.3	177.9	178.2	178.4	178.6	178.8	178.9
105°	225.8	226.4	227.1	227.6	228.3	228.9	229.5
107.5°	278.1	278.7	279.0	279.0	278.9	278.9	278.8
110°	312.0	311.6	311.7	312.4	312.9	313.6	314.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	349.9	349.9	349.9	350.0	350.1	350.2	350.3
115°	407.6	407.5	407.3	407.1	406.8	406.6	406.4
117.5°	462.8	462.1	461.6	461.1	460.7	460.2	459.9
120°	500.2	499.2	498.8	499.3	499.6	500.1	500.5
122.5°	538.9	538.1	537.3	536.6	535.8	535.1	534.3
125°	595.2	594.7	594.4	594.0	593.5	593.1	592.7
127.5°	648.8	648.4	648.0	647.7	647.3	647.1	646.7
130°	686.5	686.1	685.4	684.6	683.7	682.9	682.0
132.5°	721.8	721.4	721.0	720.7	720.4	720.0	719.7
135°	774.9	774.5	773.9	773.4	772.7	772.0	771.5
137.5°	826.0	825.6	825.3	825.5	825.6	825.7	825.9
140°	860.2	860.0	859.8	859.6	859.3	859.1	858.9
142.5°	892.3	892.3	892.2	892.2	892.1	892.1	892.0
145°	940.2	939.9	939.5	938.9	938.3	937.6	937.0
147.5°	983.7	983.5	983.4	983.2	983.0	982.8	982.6
150°	1011.3	1011.3	1011.3	1011.1	1010.8	1010.6	1010.4
152.5°	1037.6	1038.2	1038.2	1037.6	1037.1	1036.5	1035.9
155°	1074.0	1074.9	1074.9	1074.0	1073.3	1072.4	1071.6
157.5°	1105.6	1106.3	1106.2	1105.5	1104.8	1104.1	1103.3
160°	1125.2	1125.8	1125.6	1124.5	1123.5	1122.5	1121.4
162.5°	1143.2	1144.3	1144.4	1143.4	1142.4	1141.3	1140.2
165°	1166.6	1167.8	1168.0	1167.2	1166.4	1165.5	1164.7
167.5°	1186.2	1187.4	1187.4	1186.1	1184.8	1183.5	1182.2
170°	1196.7	1198.0	1197.8	1196.4	1194.9	1193.4	1191.9
172.5°	1204.7	1206.2	1206.1	1204.7	1203.2	1201.7	1200.2
175°	1213.3	1214.7	1214.7	1213.3	1211.8	1210.4	1208.9
177.5°	1217.7	1218.9	1218.8	1217.5	1216.1	1214.7	1213.4
180°	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4

(END OF REPORT)