

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: P332029-935

Luminaire Tested: **S123DIP-S1000D1025U935-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332029-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-17,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIP-S1000D1025U935-4F0-1E-UDD-A4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1025 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6847.4 lumens
Efficiency: N/A
Efficacy: 113.2 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

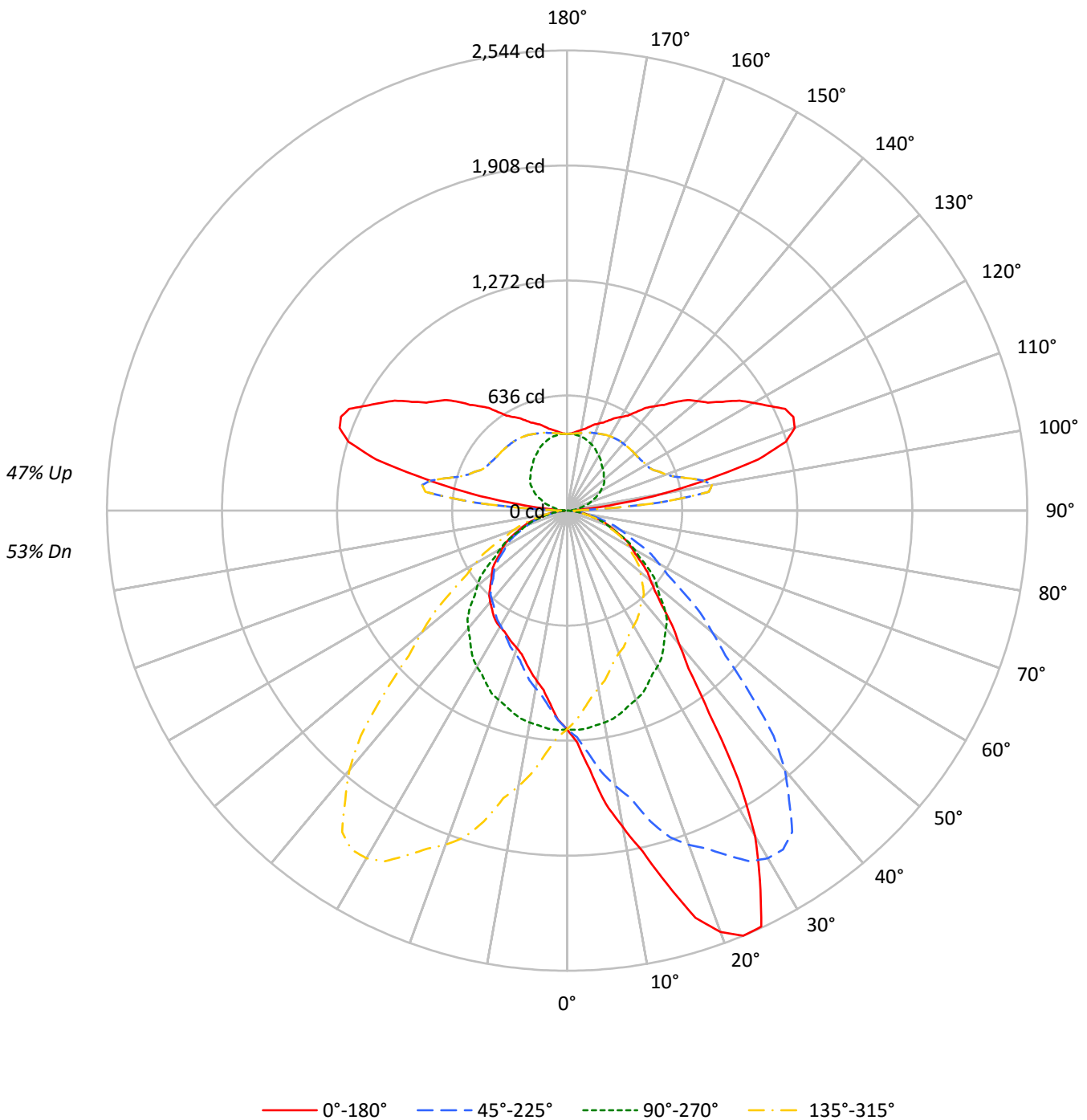
Input Watts (W): 60.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	53
1	99	95	91	87	91	88	85	82	75	73	71	64	62	60	53	52	51	46
2	90	83	77	72	83	77	72	67	66	62	59	56	53	51	47	45	43	39
3	82	73	66	60	76	68	62	57	59	54	50	50	46	43	42	39	37	33
4	76	65	57	51	70	60	54	48	52	47	43	45	40	37	37	34	32	28
5	69	58	50	44	64	54	47	42	47	41	37	40	36	32	34	31	28	25
6	64	52	44	38	59	49	41	36	42	37	32	36	32	28	31	27	25	22
7	59	47	39	34	55	44	37	32	38	33	28	33	29	25	28	25	22	19
8	55	43	35	30	51	40	33	28	35	29	25	30	26	23	26	22	20	17
9	51	39	32	26	47	37	30	25	32	27	23	28	23	20	24	20	18	16
10	48	36	29	24	44	34	27	23	30	24	20	26	21	18	22	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13017	13017	13017	13017
5°	15524	13073	11585	13073
10°	19429	13007	10463	13007
15°	23832	12902	9742	12902
20°	28389	12739	9275	12739
25°	30144	12539	9171	12539
30°	25838	12394	9220	12394
35°	17969	12188	9315	12188
40°	13534	11946	9286	11946
45°	11237	11586	9168	11586
50°	10068	10851	9085	10851
55°	9411	10061	8972	10061
60°	8829	9233	8880	9233
65°	8298	8418	8596	8418
70°	7783	7487	8186	7487
75°	6970	6554	7507	6554
80°	6100	5374	6465	5374
85°	4780	3903	4335	3903



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.1	1.7
10°-20°	382.0	5.6
20°-30°	641.1	9.4
30°-40°	725.9	10.6
40°-50°	651.0	9.5
50°-60°	525.3	7.7
60°-70°	366.1	5.3
70°-80°	192.4	2.8
80°-90°	50.3	0.7
90°-100°	236.3	3.5
100°-110°	669.0	9.8
110°-120°	658.1	9.6
120°-130°	525.0	7.7
130°-140°	413.9	6.0
140°-150°	308.9	4.5
150°-160°	215.3	3.1
160°-170°	126.5	1.8
170°-180°	41.2	0.6
0°-30°	1142.2	16.7
0°-40°	1868.1	27.3
0°-60°	3044.4	44.5
0°-90°	3653.2	53.4
90°-120°	1563.5	22.8
90°-150°	2811.2	41.1
90°-180°	3194.0	46.6
0°-180°	6847.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1209	1209	1209	1209	1209	
5°	1437	1210	1072	1210	1437	149
15°	2139	1158	874	1158	2139	617
25°	2538	1056	772	1056	2538	1113
35°	1368	928	709	928	1368	888
45°	738	761	602	761	738	584
55°	502	536	478	536	502	450
65°	326	330	338	330	326	324
75°	168	158	180	158	168	179
85°	39	32	35	32	39	46
90°	25	2	25	2	25	15
95°	100	29	100	29	100	180
105°	1093	100	1093	100	1093	1078
115°	1330	176	1330	176	1330	1292
125°	1048	245	1048	245	1048	950
135°	850	287	850	287	850	659
145°	664	327	664	327	664	423
155°	551	372	551	372	551	257
165°	480	406	480	406	480	137
175°	432	424	432	424	432	42
180°	425	425	425	425	425	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3
2.5°	1283.3	1282.5	1280.0	1281.9	1278.2	1273.1	1272.6	1267.9	1254.3	1253.4	1249.7
5°	1436.7	1431.9	1431.3	1430.8	1422.5	1411.4	1390.3	1388.6	1360.5	1346.4	1329.4
7.5°	1635.1	1637.6	1629.0	1621.5	1596.5	1579.9	1557.3	1528.4	1493.8	1458.8	1435.5
10°	1777.6	1797.0	1773.0	1756.5	1741.3	1712.6	1679.2	1637.6	1596.0	1547.4	1510.5
12.5°	1930.4	1939.9	1935.1	1919.7	1896.0	1852.3	1793.1	1747.3	1709.0	1628.0	1595.3
15°	2138.6	2174.3	2151.5	2098.7	2099.9	2058.3	1980.9	1896.0	1850.9	1779.9	1683.3
17.5°	2360.3	2364.7	2355.0	2311.0	2281.7	2224.6	2153.2	2071.7	1980.4	1894.5	1792.1
20°	2478.4	2474.9	2454.4	2431.5	2381.1	2336.6	2258.7	2167.8	2050.6	1966.3	1854.4
22.5°	2544.0	2538.1	2528.4	2509.3	2467.4	2419.6	2349.6	2250.3	2138.8	2022.6	1893.3
25°	2538.1	2545.7	2546.9	2541.7	2527.0	2498.3	2443.2	2364.1	2252.8	2103.4	1968.7
27.5°	2308.4	2319.3	2350.5	2378.3	2409.3	2441.0	2436.8	2397.5	2315.1	2186.1	2021.4
30°	2078.8	2055.4	2113.3	2186.6	2236.4	2324.3	2373.5	2376.4	2330.1	2219.4	2058.8
32.5°	1760.1	1785.8	1811.5	1901.6	2010.4	2109.1	2207.1	2286.0	2295.0	2221.3	2080.9
35°	1367.5	1399.7	1446.6	1493.5	1610.7	1711.4	1883.7	2033.7	2153.2	2169.0	2082.8
37.5°	1102.0	1117.9	1147.5	1194.6	1271.2	1390.7	1524.0	1713.6	1886.7	2015.5	2021.1
40°	963.2	967.9	1001.3	1037.1	1099.2	1197.6	1317.7	1485.2	1692.6	1872.6	1947.6
42.5°	859.2	869.4	883.6	918.0	967.4	1041.5	1153.1	1291.7	1481.8	1688.8	1835.5
45°	738.2	749.9	758.7	781.6	816.7	866.5	944.5	1071.0	1215.7	1429.6	1627.0
47.5°	658.3	659.3	665.8	683.0	707.0	744.3	799.4	880.7	1013.6	1187.1	1389.7
50°	601.2	610.5	612.9	626.3	645.1	672.6	718.3	787.5	896.5	1048.8	1235.1
52.5°	560.9	563.6	570.2	580.0	596.3	617.8	657.4	711.5	797.0	926.9	1098.2
55°	501.5	501.5	508.0	515.6	525.0	544.3	570.7	610.5	675.5	776.4	918.1
57.5°	446.7	449.6	454.2	456.5	464.5	477.3	499.3	529.5	578.1	655.7	768.4
60°	410.1	415.4	414.8	419.5	426.5	436.5	455.2	479.8	523.2	585.3	680.3
62.5°	378.2	377.9	377.8	383.4	390.5	399.9	412.2	433.4	470.3	525.3	606.1
65°	325.8	324.6	328.7	332.2	334.6	341.6	350.9	369.7	394.3	435.3	498.0
67.5°	279.1	275.7	277.9	279.1	283.1	288.6	297.4	309.0	328.6	361.5	408.7
70°	247.3	244.4	243.7	244.9	248.4	252.5	259.0	270.1	288.3	314.6	349.2
72.5°	214.5	212.4	212.3	214.9	216.5	219.2	223.8	234.0	248.4	268.2	300.5
75°	167.6	167.6	167.6	168.2	169.9	172.3	175.7	181.1	192.2	206.2	227.9
77.5°	125.6	125.5	124.8	124.7	127.3	128.3	129.2	134.1	140.3	149.7	165.6
80°	98.4	95.5	96.7	98.4	99.6	100.2	101.9	103.1	108.4	113.7	124.8
82.5°	73.1	70.7	70.9	73.6	73.8	74.4	76.2	77.8	79.8	84.6	90.6
85°	38.7	38.7	39.3	39.3	39.9	39.3	41.0	41.6	41.6	44.5	48.0
87.5°	19.0	18.3	18.6	18.9	18.6	18.7	19.0	19.3	19.6	20.2	20.1
90°	24.9	25.7	24.9	24.0	24.9	23.2	22.4	21.5	20.7	21.5	18.9
92.5°	41.4	43.0	42.1	44.7	46.2	50.7	57.4	72.3	99.7	132.2	145.4
95°	99.7	103.1	109.2	116.9	133.2	164.2	209.7	309.4	413.4	509.6	453.7
97.5°	271.4	278.8	302.0	340.7	404.1	506.9	617.8	771.3	845.0	789.8	578.2
100°	538.9	538.0	571.5	634.3	721.1	843.1	943.7	1013.3	983.2	813.9	550.0
102.5°	790.5	810.3	838.3	887.9	955.5	1032.9	1091.5	1093.7	990.1	769.2	508.8
105°	1093.2	1097.5	1125.0	1157.6	1197.2	1219.5	1203.2	1117.2	937.6	691.0	458.1
107.5°	1267.5	1275.4	1284.7	1295.7	1295.0	1264.4	1189.1	1049.6	845.8	621.9	425.8
110°	1339.0	1340.7	1342.5	1335.6	1311.5	1251.3	1143.1	984.9	788.1	582.7	413.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1353.4	1353.1	1346.5	1325.3	1281.3	1203.9	1082.5	920.9	737.9	556.6	406.5
115°	1329.6	1325.3	1308.0	1270.2	1205.7	1112.1	985.8	836.2	677.3	528.6	403.9
117.5°	1253.5	1247.8	1223.0	1179.7	1112.4	1017.4	904.0	774.9	640.6	512.0	405.4
120°	1190.3	1185.2	1164.5	1116.4	1048.5	961.7	858.6	742.5	621.4	504.5	408.2
122.5°	1131.2	1124.6	1102.0	1058.7	998.3	917.7	822.2	717.1	605.5	499.6	413.0
125°	1048.5	1042.5	1021.0	983.2	928.2	859.5	777.0	683.3	585.3	493.4	420.3
127.5°	980.4	974.9	955.5	923.2	874.2	811.7	737.2	653.7	567.4	490.3	428.5
130°	941.9	935.0	917.1	886.1	840.5	782.0	712.5	635.2	557.8	488.2	434.0
132.5°	904.1	899.3	883.3	852.4	809.6	753.9	689.1	617.9	548.8	487.5	438.2
135°	850.0	844.0	828.5	802.7	760.6	711.6	655.7	594.7	537.2	486.5	444.4
137.5°	792.7	788.8	775.8	749.6	714.2	671.8	623.6	573.6	527.0	484.6	448.4
140°	752.9	753.7	739.9	715.9	683.3	646.3	605.0	561.2	520.8	483.9	451.2
142.5°	715.7	716.6	704.2	682.9	655.0	622.9	587.2	549.5	515.3	482.5	453.2
145°	664.3	662.6	655.7	637.7	616.2	591.2	563.8	535.5	507.9	480.4	454.6
147.5°	622.1	621.4	614.8	602.6	586.3	568.6	546.4	523.9	500.7	477.2	454.6
150°	597.3	597.3	592.1	582.7	569.8	553.5	535.5	515.7	495.8	474.4	454.6
152.5°	576.7	576.7	573.6	564.8	554.7	541.1	525.1	508.1	490.4	471.0	452.5
155°	550.9	550.0	548.3	541.5	533.7	523.4	510.5	496.7	482.2	464.9	450.3
157.5°	527.4	527.5	526.2	521.0	514.3	506.2	496.2	484.7	472.9	459.6	447.5
160°	512.2	513.1	513.1	507.9	501.9	495.8	487.3	477.9	466.7	455.5	446.1
162.5°	498.4	499.3	499.3	494.9	490.9	485.6	477.7	469.6	460.5	451.3	443.3
165°	480.4	480.4	481.3	477.9	474.4	470.1	464.1	458.9	452.0	445.2	439.2
167.5°	463.2	463.2	464.1	461.7	460.1	457.0	453.6	449.6	444.0	439.0	435.1
170°	452.9	452.9	453.7	452.0	451.2	449.4	446.1	443.5	439.2	434.9	432.3
172.5°	443.3	444.0	445.6	443.8	443.7	442.6	439.9	438.0	434.4	431.4	430.2
175°	432.3	433.2	434.0	433.2	433.2	433.2	431.4	430.6	428.9	427.1	427.1
177.5°	425.9	425.9	427.3	426.6	427.3	427.3	426.6	425.9	425.2	424.6	425.2
180°	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3
2.5°	1246.8	1243.0	1239.3	1232.8	1227.1	1219.2	1216.8	1214.0	1205.6	1198.1	1192.4
5°	1322.9	1308.9	1288.4	1269.6	1254.4	1233.9	1222.2	1209.9	1192.3	1176.5	1163.6
7.5°	1402.7	1375.0	1343.2	1308.6	1276.6	1245.6	1220.6	1198.4	1173.8	1150.5	1132.3
10°	1465.9	1426.1	1381.6	1333.5	1292.5	1252.7	1219.3	1190.0	1158.3	1130.8	1107.9
12.5°	1538.1	1479.0	1417.6	1359.3	1310.8	1255.5	1215.0	1177.8	1141.9	1108.8	1083.1
15°	1623.5	1548.5	1475.9	1395.6	1321.8	1252.7	1204.6	1157.8	1116.1	1082.2	1049.4
17.5°	1701.3	1616.4	1520.6	1423.1	1333.9	1252.0	1184.7	1131.7	1079.7	1038.1	1005.4
20°	1745.4	1648.7	1540.3	1439.0	1340.6	1249.1	1175.4	1112.1	1055.8	1011.8	974.9
22.5°	1783.4	1670.3	1558.2	1449.8	1340.1	1241.6	1158.0	1092.9	1031.9	988.9	949.6
25°	1822.7	1687.4	1574.9	1447.8	1325.3	1223.4	1129.6	1055.8	994.9	944.5	904.0
27.5°	1856.5	1686.3	1552.7	1416.0	1302.1	1199.9	1099.8	1020.6	956.0	901.2	860.2
30°	1879.0	1688.6	1529.8	1394.5	1279.6	1174.1	1076.9	997.2	929.3	873.6	834.9
32.5°	1893.1	1687.1	1508.7	1364.4	1244.0	1150.7	1052.1	969.6	899.7	845.0	807.7
35°	1901.3	1676.9	1472.4	1302.4	1186.5	1095.6	1013.1	927.5	854.3	803.3	761.1
37.5°	1884.8	1655.2	1430.2	1242.7	1115.7	1026.2	956.7	883.9	813.8	757.7	721.3
40°	1859.1	1641.2	1397.4	1200.5	1067.0	980.8	921.6	850.2	781.0	727.7	693.7
42.5°	1809.8	1612.5	1361.3	1153.7	1016.3	930.1	875.7	816.0	750.5	700.5	666.5
45°	1689.7	1550.3	1307.2	1083.3	941.5	852.5	804.4	761.1	701.9	653.2	624.0
47.5°	1523.1	1456.6	1228.9	1009.2	863.5	777.8	727.9	693.0	649.8	610.5	582.4
50°	1407.3	1379.8	1175.9	958.6	811.5	727.7	679.7	648.0	617.0	577.7	551.9
52.5°	1273.8	1290.7	1114.0	906.0	758.5	676.1	630.9	605.8	577.6	545.4	522.9
55°	1085.7	1147.2	1007.2	817.9	679.7	601.2	558.4	536.1	519.7	495.7	476.3
57.5°	909.6	987.8	891.7	727.1	602.2	534.4	493.4	469.2	458.7	446.1	430.8
60°	805.0	882.4	809.2	666.2	550.2	485.7	449.4	428.9	418.4	409.6	396.7
62.5°	711.8	790.1	728.5	604.3	499.0	439.3	407.7	387.6	379.4	374.9	363.9
65°	583.6	650.9	609.9	508.0	425.9	373.2	344.5	330.5	322.9	321.1	314.0
67.5°	474.9	526.2	496.4	421.4	356.8	311.3	286.9	274.9	269.1	268.5	263.2
70°	403.7	451.8	428.9	360.9	305.2	269.5	248.4	237.9	234.4	233.8	230.8
72.5°	348.4	381.9	363.7	307.0	264.0	231.5	216.1	205.1	201.0	201.9	199.9
75°	257.8	283.0	272.4	233.2	198.6	177.5	164.6	157.6	154.1	155.8	153.5
77.5°	185.5	201.5	191.9	164.8	143.4	128.2	118.7	114.3	111.2	111.1	110.0
80°	140.0	149.4	144.1	127.7	110.1	97.3	89.6	86.7	85.0	84.4	83.8
82.5°	99.7	107.7	101.5	90.2	78.3	70.5	66.2	62.3	61.0	61.4	60.8
85°	50.4	53.3	51.0	43.9	39.3	35.7	33.4	31.6	30.5	31.1	29.9
87.5°	20.6	20.6	18.6	16.4	15.2	13.3	12.9	11.6	11.0	11.4	11.4
90°	16.4	13.8	11.2	9.5	7.7	5.2	3.4	1.7	3.4	5.2	7.7
92.5°	109.2	72.2	49.7	36.9	29.7	23.1	15.8	10.7	15.8	23.1	29.7
95°	312.8	184.8	111.8	78.2	55.9	41.2	31.8	29.2	31.8	41.2	55.9
97.5°	343.3	198.9	129.1	92.8	70.8	58.1	50.7	49.9	50.7	58.1	70.8
100°	324.0	196.8	136.6	103.1	82.5	70.5	64.5	63.6	64.5	70.5	82.5
102.5°	307.5	199.6	145.6	114.9	96.3	84.9	79.6	78.0	79.6	84.9	96.3
105°	295.7	207.2	160.7	134.1	117.8	107.5	102.3	99.7	102.3	107.5	117.8
107.5°	294.8	221.2	180.5	155.8	140.4	130.3	125.3	122.7	125.3	130.3	140.4
110°	298.3	232.9	194.2	170.1	155.6	146.1	141.8	139.2	141.8	146.1	155.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	305.1	244.6	208.7	185.3	170.7	161.3	157.0	154.4	157.0	161.3	170.7
115°	316.2	263.8	231.2	208.0	193.4	184.8	179.6	176.2	179.6	184.8	193.4
117.5°	331.1	284.3	252.0	230.5	214.1	206.3	202.0	198.0	202.0	206.3	214.1
120°	342.1	297.4	266.4	245.0	228.6	220.0	215.7	213.1	215.7	220.0	228.6
122.5°	352.4	311.1	280.9	258.0	242.4	233.1	228.8	226.2	228.8	233.1	242.4
125°	368.7	330.9	300.8	277.6	261.2	251.8	246.7	245.0	246.7	251.8	261.2
127.5°	382.1	348.1	319.0	295.8	277.8	268.1	261.7	259.2	261.7	268.1	277.8
130°	391.1	358.3	330.0	306.8	288.8	278.4	270.7	268.1	270.7	278.4	288.8
132.5°	399.3	367.3	339.7	317.1	299.1	286.7	278.3	275.0	278.3	286.7	299.1
135°	409.9	380.7	354.0	330.9	312.8	300.0	290.5	287.1	290.5	300.0	312.8
137.5°	417.8	390.0	364.4	342.9	325.0	311.3	302.0	298.4	302.0	311.3	325.0
140°	422.0	396.2	371.3	349.8	332.6	318.8	310.2	306.0	310.2	318.8	332.6
142.5°	426.1	401.1	376.8	356.6	339.5	327.1	317.8	314.2	317.8	327.1	339.5
145°	430.6	407.3	385.0	365.2	350.7	337.8	330.0	327.4	330.0	337.8	350.7
147.5°	433.3	412.5	392.1	375.2	361.1	350.0	342.4	340.9	342.4	350.0	361.1
150°	434.0	415.9	396.2	380.7	368.7	357.5	350.7	349.8	350.7	357.5	368.7
152.5°	435.4	418.0	401.1	386.2	375.6	365.8	358.9	358.7	358.9	365.8	375.6
155°	435.8	422.0	407.3	395.4	385.9	377.3	372.1	372.1	372.1	377.3	385.9
157.5°	436.6	424.2	412.5	403.2	395.2	387.6	383.5	382.8	383.5	387.6	395.2
160°	436.6	426.3	415.9	407.3	401.3	394.5	391.1	391.1	391.1	394.5	401.3
162.5°	435.9	427.0	418.0	410.8	405.4	400.0	397.3	397.3	397.3	400.0	405.4
165°	434.0	428.0	421.1	415.1	411.6	407.3	405.6	406.5	405.6	407.3	411.6
167.5°	432.7	427.8	422.8	419.0	416.6	413.4	412.5	413.5	412.5	413.4	416.6
170°	430.6	427.1	422.8	421.1	419.4	416.8	415.9	417.7	415.9	416.8	419.4
172.5°	429.9	427.1	423.5	422.5	421.5	419.6	419.4	420.4	419.4	419.6	421.5
175°	428.0	426.3	424.6	423.7	423.7	422.0	422.8	423.7	422.8	422.0	423.7
177.5°	426.6	425.2	424.6	424.6	424.6	423.9	424.6	425.2	424.6	423.9	424.6
180°	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6



TEST NUMBER: P332029-935

CATALOG NUMBER: S123DIP-S1000D1025U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3
2.5°	1189.1	1185.9	1181.2	1174.1	1168.5	1159.6	1159.6	1161.1	1161.1	1160.5	1159.6
5°	1153.1	1144.3	1133.8	1121.5	1108.5	1095.6	1093.3	1088.6	1085.1	1082.7	1079.8
7.5°	1115.0	1099.4	1084.0	1066.8	1051.1	1038.1	1029.1	1021.6	1016.8	1011.6	1007.9
10°	1089.2	1069.9	1051.7	1033.5	1013.6	997.8	987.8	980.8	975.5	970.9	968.5
12.5°	1058.7	1036.6	1016.6	999.3	977.5	961.2	951.7	948.5	942.3	932.4	927.2
15°	1014.2	993.7	969.7	943.3	932.7	912.8	901.7	896.5	892.9	885.3	883.0
17.5°	976.1	949.3	922.3	902.7	883.0	866.9	860.7	854.1	849.5	843.3	841.4
20°	945.6	921.6	897.0	875.9	855.4	837.8	832.6	827.9	823.2	820.3	817.9
22.5°	914.7	890.7	870.3	850.6	828.7	817.2	811.5	806.3	803.1	801.1	798.7
25°	871.2	850.2	827.3	809.7	792.1	784.5	781.0	778.1	775.8	772.8	772.2
27.5°	832.3	809.3	790.8	774.5	761.8	755.4	752.1	750.6	751.1	752.2	752.9
30°	803.3	782.2	767.0	752.9	741.1	735.3	734.7	734.7	737.1	737.6	738.8
32.5°	776.5	759.2	744.0	730.4	721.5	717.5	719.7	719.7	721.6	723.2	725.2
35°	737.6	722.4	710.7	699.0	691.4	693.1	694.3	695.4	698.4	701.9	704.3
37.5°	700.5	687.3	675.1	665.9	662.5	665.6	668.4	670.9	674.2	676.9	679.3
40°	673.8	663.8	652.1	643.9	645.1	646.9	649.2	652.1	655.0	656.8	659.2
42.5°	648.9	638.5	629.6	622.8	624.5	626.7	628.1	629.6	633.0	636.2	637.6
45°	611.1	602.9	594.7	590.6	591.8	593.0	594.1	595.9	598.8	601.2	601.8
47.5°	568.5	562.8	557.3	553.4	555.2	554.7	556.3	560.0	560.9	562.3	565.6
50°	541.4	536.1	529.7	528.5	528.5	528.5	529.1	533.7	533.7	536.1	538.5
52.5°	511.3	508.0	503.9	501.8	500.8	500.8	503.3	505.7	506.6	509.9	512.2
55°	467.0	463.5	459.9	458.1	457.0	458.1	462.9	464.0	467.0	468.7	470.5
57.5°	420.7	418.0	415.2	414.2	414.0	415.5	418.1	421.6	422.3	427.7	430.4
60°	390.2	386.1	383.7	383.7	382.6	387.9	386.7	392.5	393.7	397.3	401.3
62.5°	358.8	353.3	352.3	352.3	354.0	355.5	357.1	359.7	362.8	367.2	370.4
65°	308.2	305.2	309.4	308.8	307.6	311.1	311.1	314.0	317.5	321.7	328.1
67.5°	260.3	258.7	259.1	259.1	260.9	262.9	264.5	267.1	271.3	275.6	279.8
70°	227.9	229.7	226.8	229.1	230.8	231.4	232.6	236.1	240.8	243.7	248.4
72.5°	196.5	196.4	196.7	197.7	199.4	200.5	201.6	205.7	210.8	213.3	217.1
75°	151.2	150.6	152.3	152.3	155.2	156.4	157.6	159.4	164.0	167.6	170.5
77.5°	110.4	111.1	110.7	112.7	111.9	112.1	115.8	117.5	118.0	124.9	126.5
80°	83.2	84.4	85.0	85.6	86.1	85.0	89.0	90.8	90.8	94.9	97.8
82.5°	59.8	60.4	62.0	62.6	62.7	63.9	64.2	65.5	66.9	68.7	72.5
85°	29.9	31.6	32.2	31.6	32.2	31.1	32.8	33.4	34.0	34.0	34.0
87.5°	11.3	12.1	12.1	13.1	13.2	14.1	13.9	13.2	13.3	15.0	13.4
90°	9.5	11.2	13.8	16.4	18.9	21.5	20.7	21.5	22.4	23.2	24.9
92.5°	36.9	49.7	72.2	109.2	145.4	132.2	99.7	72.3	57.4	50.7	46.2
95°	78.2	111.8	184.8	312.8	453.7	509.6	413.4	309.4	209.7	164.2	133.2
97.5°	92.8	129.1	198.9	343.3	578.2	789.8	845.0	771.3	617.8	506.9	404.1
100°	103.1	136.6	196.8	324.0	550.0	813.9	983.2	1013.3	943.7	843.1	721.1
102.5°	114.9	145.6	199.6	307.5	508.8	769.2	990.1	1093.7	1091.5	1032.9	955.5
105°	134.1	160.7	207.2	295.7	458.1	691.0	937.6	1117.2	1203.2	1219.5	1197.2
107.5°	155.8	180.5	221.2	294.8	425.8	621.9	845.8	1049.6	1189.1	1264.4	1295.0
110°	170.1	194.2	232.9	298.3	413.4	582.7	788.1	984.9	1143.1	1251.3	1311.5



TEST NUMBER: P332029-935

CATALOG NUMBER: S123DIP-S1000D1025U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	185.3	208.7	244.6	305.1	406.5	556.6	737.9	920.9	1082.5	1203.9	1281.3
115°	208.0	231.2	263.8	316.2	403.9	528.6	677.3	836.2	985.8	1112.1	1205.7
117.5°	230.5	252.0	284.3	331.1	405.4	512.0	640.6	774.9	904.0	1017.4	1112.4
120°	245.0	266.4	297.4	342.1	408.2	504.5	621.4	742.5	858.6	961.7	1048.5
122.5°	258.0	280.9	311.1	352.4	413.0	499.6	605.5	717.1	822.2	917.7	998.3
125°	277.6	300.8	330.9	368.7	420.3	493.4	585.3	683.3	777.0	859.5	928.2
127.5°	295.8	319.0	348.1	382.1	428.5	490.3	567.4	653.7	737.2	811.7	874.2
130°	306.8	330.0	358.3	391.1	434.0	488.2	557.8	635.2	712.5	782.0	840.5
132.5°	317.1	339.7	367.3	399.3	438.2	487.5	548.8	617.9	689.1	753.9	809.6
135°	330.9	354.0	380.7	409.9	444.4	486.5	537.2	594.7	655.7	711.6	760.6
137.5°	342.9	364.4	390.0	417.8	448.4	484.6	527.0	573.6	623.6	671.8	714.2
140°	349.8	371.3	396.2	422.0	451.2	483.9	520.8	561.2	605.0	646.3	683.3
142.5°	356.6	376.8	401.1	426.1	453.2	482.5	515.3	549.5	587.2	622.9	655.0
145°	365.2	385.0	407.3	430.6	454.6	480.4	507.9	535.5	563.8	591.2	616.2
147.5°	375.2	392.1	412.5	433.3	454.6	477.2	500.7	523.9	546.4	568.6	586.3
150°	380.7	396.2	415.9	434.0	454.6	474.4	495.8	515.7	535.5	553.5	569.8
152.5°	386.2	401.1	418.0	435.4	452.5	471.0	490.4	508.1	525.1	541.1	554.7
155°	395.4	407.3	422.0	435.8	450.3	464.9	482.2	496.7	510.5	523.4	533.7
157.5°	403.2	412.5	424.2	436.6	447.5	459.6	472.9	484.7	496.2	506.2	514.3
160°	407.3	415.9	426.3	436.6	446.1	455.5	466.7	477.9	487.3	495.8	501.9
162.5°	410.8	418.0	427.0	435.9	443.3	451.3	460.5	469.6	477.7	485.6	490.9
165°	415.1	421.1	428.0	434.0	439.2	445.2	452.0	458.9	464.1	470.1	474.4
167.5°	419.0	422.8	427.8	432.7	435.1	439.0	444.0	449.6	453.6	457.0	460.1
170°	421.1	422.8	427.1	430.6	432.3	434.9	439.2	443.5	446.1	449.4	451.2
172.5°	422.5	423.5	427.1	429.9	430.2	431.4	434.4	438.0	439.9	442.6	443.7
175°	423.7	424.6	426.3	428.0	427.1	427.1	428.9	430.6	431.4	433.2	433.2
177.5°	424.6	424.6	425.2	426.6	425.2	424.6	425.2	425.9	426.6	427.3	427.3
180°	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6



TEST NUMBER: P332029-935

CATALOG NUMBER: S123DIP-S1000D1025U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3
2.5°	1156.3	1155.9	1159.2	1156.8	1159.2	1155.9	1156.3	1159.6	1160.5	1161.1	1161.1
5°	1076.3	1078.1	1072.2	1072.2	1072.2	1078.1	1076.3	1079.8	1082.7	1085.1	1088.6
7.5°	1005.0	1002.5	1002.7	999.5	1002.7	1002.5	1005.0	1007.9	1011.6	1016.8	1021.6
10°	961.5	957.9	956.7	957.3	956.7	957.9	961.5	968.5	970.9	975.5	980.8
12.5°	925.4	924.7	917.0	917.1	917.0	924.7	925.4	927.2	932.4	942.3	948.5
15°	883.0	871.8	870.6	874.2	870.6	871.8	883.0	883.0	885.3	892.9	896.5
17.5°	840.4	834.6	834.9	833.2	834.9	834.6	840.4	841.4	843.3	849.5	854.1
20°	817.9	814.4	813.8	809.7	813.8	814.4	817.9	817.9	820.3	823.2	827.9
22.5°	797.3	796.2	796.5	791.9	796.5	796.2	797.3	798.7	801.1	803.1	806.3
25°	771.6	774.6	772.2	772.2	772.2	774.6	771.6	772.2	772.8	775.8	778.1
27.5°	754.3	754.1	753.0	753.0	753.0	754.1	754.3	752.9	752.2	751.1	750.6
30°	741.1	740.5	741.8	741.8	741.8	740.5	741.1	738.8	737.6	737.1	734.7
32.5°	728.1	728.8	729.1	729.5	729.1	728.8	728.1	725.2	723.2	721.6	719.7
35°	707.7	708.3	710.2	708.9	710.2	708.3	707.7	704.3	701.9	698.4	695.4
37.5°	680.4	683.0	682.4	683.4	682.4	683.0	680.4	679.3	676.9	674.2	670.9
40°	659.7	661.5	660.9	660.9	660.9	661.5	659.7	659.2	656.8	655.0	652.1
42.5°	638.6	639.9	638.4	637.5	638.4	639.9	638.6	637.6	636.2	633.0	629.6
45°	604.1	602.9	604.7	602.3	604.7	602.9	604.1	601.8	601.2	598.8	595.9
47.5°	565.4	566.5	567.1	568.8	567.1	566.5	565.4	565.6	562.3	560.9	560.0
50°	539.6	543.1	543.1	542.5	543.1	543.1	539.6	538.5	536.1	533.7	533.7
52.5°	514.3	515.9	518.3	518.1	518.3	515.9	514.3	512.2	509.9	506.6	505.7
55°	475.2	476.3	477.5	478.1	477.5	476.3	475.2	470.5	468.7	467.0	464.0
57.5°	434.6	434.1	437.0	437.8	437.0	434.1	434.6	430.4	427.7	422.3	421.6
60°	406.0	406.0	410.7	412.5	410.7	406.0	406.0	401.3	397.3	393.7	392.5
62.5°	375.6	377.5	382.1	379.7	382.1	377.5	375.6	370.4	367.2	362.8	359.7
65°	331.1	335.7	335.1	337.5	335.1	335.7	331.1	328.1	321.7	317.5	314.0
67.5°	284.5	287.4	291.6	292.1	291.6	287.4	284.5	279.8	275.6	271.3	267.1
70°	253.1	256.1	258.4	260.1	258.4	256.1	253.1	248.4	243.7	240.8	236.1
72.5°	222.7	224.2	229.8	227.3	229.8	224.2	222.7	217.1	213.3	210.8	205.7
75°	174.6	178.7	182.2	180.5	182.2	178.7	174.6	170.5	167.6	164.0	159.4
77.5°	129.2	133.2	134.8	133.4	134.8	133.2	129.2	126.5	124.9	118.0	117.5
80°	101.9	101.3	104.9	104.3	104.9	101.3	101.9	97.8	94.9	90.8	90.8
82.5°	74.7	74.2	75.9	76.2	75.9	74.2	74.7	72.5	68.7	66.9	65.5
85°	36.3	38.1	35.7	35.1	35.7	38.1	36.3	34.0	34.0	34.0	33.4
87.5°	13.3	13.4	13.1	12.5	13.1	13.4	13.3	13.4	15.0	13.3	13.2
90°	24.0	24.9	25.7	24.9	25.7	24.9	24.0	24.9	23.2	22.4	21.5
92.5°	44.7	42.1	43.0	41.4	43.0	42.1	44.7	46.2	50.7	57.4	72.3
95°	116.9	109.2	103.1	99.7	103.1	109.2	116.9	133.2	164.2	209.7	309.4
97.5°	340.7	302.0	278.8	271.4	278.8	302.0	340.7	404.1	506.9	617.8	771.3
100°	634.3	571.5	538.0	538.9	538.0	571.5	634.3	721.1	843.1	943.7	1013.3
102.5°	887.9	838.3	810.3	790.5	810.3	838.3	887.9	955.5	1032.9	1091.5	1093.7
105°	1157.6	1125.0	1097.5	1093.2	1097.5	1125.0	1157.6	1197.2	1219.5	1203.2	1117.2
107.5°	1295.7	1284.7	1275.4	1267.5	1275.4	1284.7	1295.7	1295.0	1264.4	1189.1	1049.6
110°	1335.6	1342.5	1340.7	1339.0	1340.7	1342.5	1335.6	1311.5	1251.3	1143.1	984.9



TEST NUMBER: P332029-935

CATALOG NUMBER: S123DIP-S1000D1025U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1325.3	1346.5	1353.1	1353.4	1353.1	1346.5	1325.3	1281.3	1203.9	1082.5	920.9
115°	1270.2	1308.0	1325.3	1329.6	1325.3	1308.0	1270.2	1205.7	1112.1	985.8	836.2
117.5°	1179.7	1223.0	1247.8	1253.5	1247.8	1223.0	1179.7	1112.4	1017.4	904.0	774.9
120°	1116.4	1164.5	1185.2	1190.3	1185.2	1164.5	1116.4	1048.5	961.7	858.6	742.5
122.5°	1058.7	1102.0	1124.6	1131.2	1124.6	1102.0	1058.7	998.3	917.7	822.2	717.1
125°	983.2	1021.0	1042.5	1048.5	1042.5	1021.0	983.2	928.2	859.5	777.0	683.3
127.5°	923.2	955.5	974.9	980.4	974.9	955.5	923.2	874.2	811.7	737.2	653.7
130°	886.1	917.1	935.0	941.9	935.0	917.1	886.1	840.5	782.0	712.5	635.2
132.5°	852.4	883.3	899.3	904.1	899.3	883.3	852.4	809.6	753.9	689.1	617.9
135°	802.7	828.5	844.0	850.0	844.0	828.5	802.7	760.6	711.6	655.7	594.7
137.5°	749.6	775.8	788.8	792.7	788.8	775.8	749.6	714.2	671.8	623.6	573.6
140°	715.9	739.9	753.7	752.9	753.7	739.9	715.9	683.3	646.3	605.0	561.2
142.5°	682.9	704.2	716.6	715.7	716.6	704.2	682.9	655.0	622.9	587.2	549.5
145°	637.7	655.7	662.6	664.3	662.6	655.7	637.7	616.2	591.2	563.8	535.5
147.5°	602.6	614.8	621.4	622.1	621.4	614.8	602.6	586.3	568.6	546.4	523.9
150°	582.7	592.1	597.3	597.3	597.3	592.1	582.7	569.8	553.5	535.5	515.7
152.5°	564.8	573.6	576.7	576.7	576.7	573.6	564.8	554.7	541.1	525.1	508.1
155°	541.5	548.3	550.0	550.9	550.0	548.3	541.5	533.7	523.4	510.5	496.7
157.5°	521.0	526.2	527.5	527.4	527.5	526.2	521.0	514.3	506.2	496.2	484.7
160°	507.9	513.1	513.1	512.2	513.1	513.1	507.9	501.9	495.8	487.3	477.9
162.5°	494.9	499.3	499.3	498.4	499.3	499.3	494.9	490.9	485.6	477.7	469.6
165°	477.9	481.3	480.4	480.4	480.4	481.3	477.9	474.4	470.1	464.1	458.9
167.5°	461.7	464.1	463.2	463.2	463.2	464.1	461.7	460.1	457.0	453.6	449.6
170°	452.0	453.7	452.9	452.9	452.9	453.7	452.0	451.2	449.4	446.1	443.5
172.5°	443.8	445.6	444.0	443.3	444.0	445.6	443.8	443.7	442.6	439.9	438.0
175°	433.2	434.0	433.2	432.3	433.2	434.0	433.2	433.2	433.2	431.4	430.6
177.5°	426.6	427.3	425.9	425.9	425.9	427.3	426.6	427.3	427.3	426.6	425.9
180°	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6



TEST NUMBER: P332029-935

CATALOG NUMBER: S123DIP-S1000D1025U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3
2.5°	1159.6	1159.6	1168.5	1174.1	1181.2	1185.9	1189.1	1192.4	1198.1	1205.6	1214.0
5°	1093.3	1095.6	1108.5	1121.5	1133.8	1144.3	1153.1	1163.6	1176.5	1192.3	1209.9
7.5°	1029.1	1038.1	1051.1	1066.8	1084.0	1099.4	1115.0	1132.3	1150.5	1173.8	1198.4
10°	987.8	997.8	1013.6	1033.5	1051.7	1069.9	1089.2	1107.9	1130.8	1158.3	1190.0
12.5°	951.7	961.2	977.5	999.3	1016.6	1036.6	1058.7	1083.1	1108.8	1141.9	1177.8
15°	901.7	912.8	932.7	943.3	969.7	993.7	1014.2	1049.4	1082.2	1116.1	1157.8
17.5°	860.7	866.9	883.0	902.7	922.3	949.3	976.1	1005.4	1038.1	1079.7	1131.7
20°	832.6	837.8	855.4	875.9	897.0	921.6	945.6	974.9	1011.8	1055.8	1112.1
22.5°	811.5	817.2	828.7	850.6	870.3	890.7	914.7	949.6	988.9	1031.9	1092.9
25°	781.0	784.5	792.1	809.7	827.3	850.2	871.2	904.0	944.5	994.9	1055.8
27.5°	752.1	755.4	761.8	774.5	790.8	809.3	832.3	860.2	901.2	956.0	1020.6
30°	734.7	735.3	741.1	752.9	767.0	782.2	803.3	834.9	873.6	929.3	997.2
32.5°	719.7	717.5	721.5	730.4	744.0	759.2	776.5	807.7	845.0	899.7	969.6
35°	694.3	693.1	691.4	699.0	710.7	722.4	737.6	761.1	803.3	854.3	927.5
37.5°	668.4	665.6	662.5	665.9	675.1	687.3	700.5	721.3	757.7	813.8	883.9
40°	649.2	646.9	645.1	643.9	652.1	663.8	673.8	693.7	727.7	781.0	850.2
42.5°	628.1	626.7	624.5	622.8	629.6	638.5	648.9	666.5	700.5	750.5	816.0
45°	594.1	593.0	591.8	590.6	594.7	602.9	611.1	624.0	653.2	701.9	761.1
47.5°	556.3	554.7	555.2	553.4	557.3	562.8	568.5	582.4	610.5	649.8	693.0
50°	529.1	528.5	528.5	528.5	529.7	536.1	541.4	551.9	577.7	617.0	648.0
52.5°	503.3	500.8	500.8	501.8	503.9	508.0	511.3	522.9	545.4	577.6	605.8
55°	462.9	458.1	457.0	458.1	459.9	463.5	467.0	476.3	495.7	519.7	536.1
57.5°	418.1	415.5	414.0	414.2	415.2	418.0	420.7	430.8	446.1	458.7	469.2
60°	386.7	387.9	382.6	383.7	383.7	386.1	390.2	396.7	409.6	418.4	428.9
62.5°	357.1	355.5	354.0	352.3	352.3	353.3	358.8	363.9	374.9	379.4	387.6
65°	311.1	311.1	307.6	308.8	309.4	305.2	308.2	314.0	321.1	322.9	330.5
67.5°	264.5	262.9	260.9	259.1	259.1	258.7	260.3	263.2	268.5	269.1	274.9
70°	232.6	231.4	230.8	229.1	226.8	229.7	227.9	230.8	233.8	234.4	237.9
72.5°	201.6	200.5	199.4	197.7	196.7	196.4	196.5	199.9	201.9	201.0	205.1
75°	157.6	156.4	155.2	152.3	152.3	150.6	151.2	153.5	155.8	154.1	157.6
77.5°	115.8	112.1	111.9	112.7	110.7	111.1	110.4	110.0	111.1	111.2	114.3
80°	89.0	85.0	86.1	85.6	85.0	84.4	83.2	83.8	84.4	85.0	86.7
82.5°	64.2	63.9	62.7	62.6	62.0	60.4	59.8	60.8	61.4	61.0	62.3
85°	32.8	31.1	32.2	31.6	32.2	31.6	29.9	29.9	31.1	30.5	31.6
87.5°	13.9	14.1	13.2	13.1	12.1	12.1	11.3	11.4	11.4	11.0	11.6
90°	20.7	21.5	18.9	16.4	13.8	11.2	9.5	7.7	5.2	3.4	1.7
92.5°	99.7	132.2	145.4	109.2	72.2	49.7	36.9	29.7	23.1	15.8	10.7
95°	413.4	509.6	453.7	312.8	184.8	111.8	78.2	55.9	41.2	31.8	29.2
97.5°	845.0	789.8	578.2	343.3	198.9	129.1	92.8	70.8	58.1	50.7	49.9
100°	983.2	813.9	550.0	324.0	196.8	136.6	103.1	82.5	70.5	64.5	63.6
102.5°	990.1	769.2	508.8	307.5	199.6	145.6	114.9	96.3	84.9	79.6	78.0
105°	937.6	691.0	458.1	295.7	207.2	160.7	134.1	117.8	107.5	102.3	99.7
107.5°	845.8	621.9	425.8	294.8	221.2	180.5	155.8	140.4	130.3	125.3	122.7
110°	788.1	582.7	413.4	298.3	232.9	194.2	170.1	155.6	146.1	141.8	139.2



TEST NUMBER: P332029-935

CATALOG NUMBER: S123DIP-S1000D1025U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	737.9	556.6	406.5	305.1	244.6	208.7	185.3	170.7	161.3	157.0	154.4
115°	677.3	528.6	403.9	316.2	263.8	231.2	208.0	193.4	184.8	179.6	176.2
117.5°	640.6	512.0	405.4	331.1	284.3	252.0	230.5	214.1	206.3	202.0	198.0
120°	621.4	504.5	408.2	342.1	297.4	266.4	245.0	228.6	220.0	215.7	213.1
122.5°	605.5	499.6	413.0	352.4	311.1	280.9	258.0	242.4	233.1	228.8	226.2
125°	585.3	493.4	420.3	368.7	330.9	300.8	277.6	261.2	251.8	246.7	245.0
127.5°	567.4	490.3	428.5	382.1	348.1	319.0	295.8	277.8	268.1	261.7	259.2
130°	557.8	488.2	434.0	391.1	358.3	330.0	306.8	288.8	278.4	270.7	268.1
132.5°	548.8	487.5	438.2	399.3	367.3	339.7	317.1	299.1	286.7	278.3	275.0
135°	537.2	486.5	444.4	409.9	380.7	354.0	330.9	312.8	300.0	290.5	287.1
137.5°	527.0	484.6	448.4	417.8	390.0	364.4	342.9	325.0	311.3	302.0	298.4
140°	520.8	483.9	451.2	422.0	396.2	371.3	349.8	332.6	318.8	310.2	306.0
142.5°	515.3	482.5	453.2	426.1	401.1	376.8	356.6	339.5	327.1	317.8	314.2
145°	507.9	480.4	454.6	430.6	407.3	385.0	365.2	350.7	337.8	330.0	327.4
147.5°	500.7	477.2	454.6	433.3	412.5	392.1	375.2	361.1	350.0	342.4	340.9
150°	495.8	474.4	454.6	434.0	415.9	396.2	380.7	368.7	357.5	350.7	349.8
152.5°	490.4	471.0	452.5	435.4	418.0	401.1	386.2	375.6	365.8	358.9	358.7
155°	482.2	464.9	450.3	435.8	422.0	407.3	395.4	385.9	377.3	372.1	372.1
157.5°	472.9	459.6	447.5	436.6	424.2	412.5	403.2	395.2	387.6	383.5	382.8
160°	466.7	455.5	446.1	436.6	426.3	415.9	407.3	401.3	394.5	391.1	391.1
162.5°	460.5	451.3	443.3	435.9	427.0	418.0	410.8	405.4	400.0	397.3	397.3
165°	452.0	445.2	439.2	434.0	428.0	421.1	415.1	411.6	407.3	405.6	406.5
167.5°	444.0	439.0	435.1	432.7	427.8	422.8	419.0	416.6	413.4	412.5	413.5
170°	439.2	434.9	432.3	430.6	427.1	422.8	421.1	419.4	416.8	415.9	417.7
172.5°	434.4	431.4	430.2	429.9	427.1	423.5	422.5	421.5	419.6	419.4	420.4
175°	428.9	427.1	427.1	428.0	426.3	424.6	423.7	423.7	422.0	422.8	423.7
177.5°	425.2	424.6	425.2	426.6	425.2	424.6	424.6	424.6	423.9	424.6	425.2
180°	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6



TEST NUMBER: P332029-935

CATALOG NUMBER: S123DIP-S1000D1025U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3
2.5°	1216.8	1219.2	1227.1	1232.8	1239.3	1243.0	1246.8	1249.7	1253.4	1254.3	1267.9
5°	1222.2	1233.9	1254.4	1269.6	1288.4	1308.9	1322.9	1329.4	1346.4	1360.5	1388.6
7.5°	1220.6	1245.6	1276.6	1308.6	1343.2	1375.0	1402.7	1435.5	1458.8	1493.8	1528.4
10°	1219.3	1252.7	1292.5	1333.5	1381.6	1426.1	1465.9	1510.5	1547.4	1596.0	1637.6
12.5°	1215.0	1255.5	1310.8	1359.3	1417.6	1479.0	1538.1	1595.3	1628.0	1709.0	1747.3
15°	1204.6	1252.7	1321.8	1395.6	1475.9	1548.5	1623.5	1683.3	1779.9	1850.9	1896.0
17.5°	1184.7	1252.0	1333.9	1423.1	1520.6	1616.4	1701.3	1792.1	1894.5	1980.4	2071.7
20°	1175.4	1249.1	1340.6	1439.0	1540.3	1648.7	1745.4	1854.4	1966.3	2050.6	2167.8
22.5°	1158.0	1241.6	1340.1	1449.8	1558.2	1670.3	1783.4	1893.3	2022.6	2138.8	2250.3
25°	1129.6	1223.4	1325.3	1447.8	1574.9	1687.4	1822.7	1968.7	2103.4	2252.8	2364.1
27.5°	1099.8	1199.9	1302.1	1416.0	1552.7	1686.3	1856.5	2021.4	2186.1	2315.1	2397.5
30°	1076.9	1174.1	1279.6	1394.5	1529.8	1688.6	1879.0	2058.8	2219.4	2330.1	2376.4
32.5°	1052.1	1150.7	1244.0	1364.4	1508.7	1687.1	1893.1	2080.9	2221.3	2295.0	2286.0
35°	1013.1	1095.6	1186.5	1302.4	1472.4	1676.9	1901.3	2082.8	2169.0	2153.2	2033.7
37.5°	956.7	1026.2	1115.7	1242.7	1430.2	1655.2	1884.8	2021.1	2015.5	1886.7	1713.6
40°	921.6	980.8	1067.0	1200.5	1397.4	1641.2	1859.1	1947.6	1872.6	1692.6	1485.2
42.5°	875.7	930.1	1016.3	1153.7	1361.3	1612.5	1809.8	1835.5	1688.8	1481.8	1291.7
45°	804.4	852.5	941.5	1083.3	1307.2	1550.3	1689.7	1627.0	1429.6	1215.7	1071.0
47.5°	727.9	777.8	863.5	1009.2	1228.9	1456.6	1523.1	1389.7	1187.1	1013.6	880.7
50°	679.7	727.7	811.5	958.6	1175.9	1379.8	1407.3	1235.1	1048.8	896.5	787.5
52.5°	630.9	676.1	758.5	906.0	1114.0	1290.7	1273.8	1098.2	926.9	797.0	711.5
55°	558.4	601.2	679.7	817.9	1007.2	1147.2	1085.7	918.1	776.4	675.5	610.5
57.5°	493.4	534.4	602.2	727.1	891.7	987.8	909.6	768.4	655.7	578.1	529.5
60°	449.4	485.7	550.2	666.2	809.2	882.4	805.0	680.3	585.3	523.2	479.8
62.5°	407.7	439.3	499.0	604.3	728.5	790.1	711.8	606.1	525.3	470.3	433.4
65°	344.5	373.2	425.9	508.0	609.9	650.9	583.6	498.0	435.3	394.3	369.7
67.5°	286.9	311.3	356.8	421.4	496.4	526.2	474.9	408.7	361.5	328.6	309.0
70°	248.4	269.5	305.2	360.9	428.9	451.8	403.7	349.2	314.6	288.3	270.1
72.5°	216.1	231.5	264.0	307.0	363.7	381.9	348.4	300.5	268.2	248.4	234.0
75°	164.6	177.5	198.6	233.2	272.4	283.0	257.8	227.9	206.2	192.2	181.1
77.5°	118.7	128.2	143.4	164.8	191.9	201.5	185.5	165.6	149.7	140.3	134.1
80°	89.6	97.3	110.1	127.7	144.1	149.4	140.0	124.8	113.7	108.4	103.1
82.5°	66.2	70.5	78.3	90.2	101.5	107.7	99.7	90.6	84.6	79.8	77.8
85°	33.4	35.7	39.3	43.9	51.0	53.3	50.4	48.0	44.5	41.6	41.6
87.5°	12.9	13.3	15.2	16.4	18.6	20.6	20.6	20.1	20.2	19.6	19.3
90°	3.4	5.2	7.7	9.5	11.2	13.8	16.4	18.9	21.5	20.7	21.5
92.5°	15.8	23.1	29.7	36.9	49.7	72.2	109.2	145.4	132.2	99.7	72.3
95°	31.8	41.2	55.9	78.2	111.8	184.8	312.8	453.7	509.6	413.4	309.4
97.5°	50.7	58.1	70.8	92.8	129.1	198.9	343.3	578.2	789.8	845.0	771.3
100°	64.5	70.5	82.5	103.1	136.6	196.8	324.0	550.0	813.9	983.2	1013.3
102.5°	79.6	84.9	96.3	114.9	145.6	199.6	307.5	508.8	769.2	990.1	1093.7
105°	102.3	107.5	117.8	134.1	160.7	207.2	295.7	458.1	691.0	937.6	1117.2
107.5°	125.3	130.3	140.4	155.8	180.5	221.2	294.8	425.8	621.9	845.8	1049.6
110°	141.8	146.1	155.6	170.1	194.2	232.9	298.3	413.4	582.7	788.1	984.9



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	157.0	161.3	170.7	185.3	208.7	244.6	305.1	406.5	556.6	737.9	920.9
115°	179.6	184.8	193.4	208.0	231.2	263.8	316.2	403.9	528.6	677.3	836.2
117.5°	202.0	206.3	214.1	230.5	252.0	284.3	331.1	405.4	512.0	640.6	774.9
120°	215.7	220.0	228.6	245.0	266.4	297.4	342.1	408.2	504.5	621.4	742.5
122.5°	228.8	233.1	242.4	258.0	280.9	311.1	352.4	413.0	499.6	605.5	717.1
125°	246.7	251.8	261.2	277.6	300.8	330.9	368.7	420.3	493.4	585.3	683.3
127.5°	261.7	268.1	277.8	295.8	319.0	348.1	382.1	428.5	490.3	567.4	653.7
130°	270.7	278.4	288.8	306.8	330.0	358.3	391.1	434.0	488.2	557.8	635.2
132.5°	278.3	286.7	299.1	317.1	339.7	367.3	399.3	438.2	487.5	548.8	617.9
135°	290.5	300.0	312.8	330.9	354.0	380.7	409.9	444.4	486.5	537.2	594.7
137.5°	302.0	311.3	325.0	342.9	364.4	390.0	417.8	448.4	484.6	527.0	573.6
140°	310.2	318.8	332.6	349.8	371.3	396.2	422.0	451.2	483.9	520.8	561.2
142.5°	317.8	327.1	339.5	356.6	376.8	401.1	426.1	453.2	482.5	515.3	549.5
145°	330.0	337.8	350.7	365.2	385.0	407.3	430.6	454.6	480.4	507.9	535.5
147.5°	342.4	350.0	361.1	375.2	392.1	412.5	433.3	454.6	477.2	500.7	523.9
150°	350.7	357.5	368.7	380.7	396.2	415.9	434.0	454.6	474.4	495.8	515.7
152.5°	358.9	365.8	375.6	386.2	401.1	418.0	435.4	452.5	471.0	490.4	508.1
155°	372.1	377.3	385.9	395.4	407.3	422.0	435.8	450.3	464.9	482.2	496.7
157.5°	383.5	387.6	395.2	403.2	412.5	424.2	436.6	447.5	459.6	472.9	484.7
160°	391.1	394.5	401.3	407.3	415.9	426.3	436.6	446.1	455.5	466.7	477.9
162.5°	397.3	400.0	405.4	410.8	418.0	427.0	435.9	443.3	451.3	460.5	469.6
165°	405.6	407.3	411.6	415.1	421.1	428.0	434.0	439.2	445.2	452.0	458.9
167.5°	412.5	413.4	416.6	419.0	422.8	427.8	432.7	435.1	439.0	444.0	449.6
170°	415.9	416.8	419.4	421.1	422.8	427.1	430.6	432.3	434.9	439.2	443.5
172.5°	419.4	419.6	421.5	422.5	423.5	427.1	429.9	430.2	431.4	434.4	438.0
175°	422.8	422.0	423.7	423.7	424.6	426.3	428.0	427.1	427.1	428.9	430.6
177.5°	424.6	423.9	424.6	424.6	424.6	425.2	426.6	425.2	424.6	425.2	425.9
180°	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3
2.5°	1272.6	1273.1	1278.2	1281.9	1280.0	1282.5	1283.3
5°	1390.3	1411.4	1422.5	1430.8	1431.3	1431.9	1436.7
7.5°	1557.3	1579.9	1596.5	1621.5	1629.0	1637.6	1635.1
10°	1679.2	1712.6	1741.3	1756.5	1773.0	1797.0	1777.6
12.5°	1793.1	1852.3	1896.0	1919.7	1935.1	1939.9	1930.4
15°	1980.9	2058.3	2099.9	2098.7	2151.5	2174.3	2138.6
17.5°	2153.2	2224.6	2281.7	2311.0	2355.0	2364.7	2360.3
20°	2258.7	2336.6	2381.1	2431.5	2454.4	2474.9	2478.4
22.5°	2349.6	2419.6	2467.4	2509.3	2528.4	2538.1	2544.0
25°	2443.2	2498.3	2527.0	2541.7	2546.9	2545.7	2538.1
27.5°	2436.8	2441.0	2409.3	2378.3	2350.5	2319.3	2308.4
30°	2373.5	2324.3	2236.4	2186.6	2113.3	2055.4	2078.8
32.5°	2207.1	2109.1	2010.4	1901.6	1811.5	1785.8	1760.1
35°	1883.7	1711.4	1610.7	1493.5	1446.6	1399.7	1367.5
37.5°	1524.0	1390.7	1271.2	1194.6	1147.5	1117.9	1102.0
40°	1317.7	1197.6	1099.2	1037.1	1001.3	967.9	963.2
42.5°	1153.1	1041.5	967.4	918.0	883.6	869.4	859.2
45°	944.5	866.5	816.7	781.6	758.7	749.9	738.2
47.5°	799.4	744.3	707.0	683.0	665.8	659.3	658.3
50°	718.3	672.6	645.1	626.3	612.9	610.5	601.2
52.5°	657.4	617.8	596.3	580.0	570.2	563.6	560.9
55°	570.7	544.3	525.0	515.6	508.0	501.5	501.5
57.5°	499.3	477.3	464.5	456.5	454.2	449.6	446.7
60°	455.2	436.5	426.5	419.5	414.8	415.4	410.1
62.5°	412.2	399.9	390.5	383.4	377.8	377.9	378.2
65°	350.9	341.6	334.6	332.2	328.7	324.6	325.8
67.5°	297.4	288.6	283.1	279.1	277.9	275.7	279.1
70°	259.0	252.5	248.4	244.9	243.7	244.4	247.3
72.5°	223.8	219.2	216.5	214.9	212.3	212.4	214.5
75°	175.7	172.3	169.9	168.2	167.6	167.6	167.6
77.5°	129.2	128.3	127.3	124.7	124.8	125.5	125.6
80°	101.9	100.2	99.6	98.4	96.7	95.5	98.4
82.5°	76.2	74.4	73.8	73.6	70.9	70.7	73.1
85°	41.0	39.3	39.9	39.3	39.3	38.7	38.7
87.5°	19.0	18.7	18.6	18.9	18.6	18.3	19.0
90°	22.4	23.2	24.9	24.0	24.9	25.7	24.9
92.5°	57.4	50.7	46.2	44.7	42.1	43.0	41.4
95°	209.7	164.2	133.2	116.9	109.2	103.1	99.7
97.5°	617.8	506.9	404.1	340.7	302.0	278.8	271.4
100°	943.7	843.1	721.1	634.3	571.5	538.0	538.9
102.5°	1091.5	1032.9	955.5	887.9	838.3	810.3	790.5
105°	1203.2	1219.5	1197.2	1157.6	1125.0	1097.5	1093.2
107.5°	1189.1	1264.4	1295.0	1295.7	1284.7	1275.4	1267.5
110°	1143.1	1251.3	1311.5	1335.6	1342.5	1340.7	1339.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1082.5	1203.9	1281.3	1325.3	1346.5	1353.1	1353.4
115°	985.8	1112.1	1205.7	1270.2	1308.0	1325.3	1329.6
117.5°	904.0	1017.4	1112.4	1179.7	1223.0	1247.8	1253.5
120°	858.6	961.7	1048.5	1116.4	1164.5	1185.2	1190.3
122.5°	822.2	917.7	998.3	1058.7	1102.0	1124.6	1131.2
125°	777.0	859.5	928.2	983.2	1021.0	1042.5	1048.5
127.5°	737.2	811.7	874.2	923.2	955.5	974.9	980.4
130°	712.5	782.0	840.5	886.1	917.1	935.0	941.9
132.5°	689.1	753.9	809.6	852.4	883.3	899.3	904.1
135°	655.7	711.6	760.6	802.7	828.5	844.0	850.0
137.5°	623.6	671.8	714.2	749.6	775.8	788.8	792.7
140°	605.0	646.3	683.3	715.9	739.9	753.7	752.9
142.5°	587.2	622.9	655.0	682.9	704.2	716.6	715.7
145°	563.8	591.2	616.2	637.7	655.7	662.6	664.3
147.5°	546.4	568.6	586.3	602.6	614.8	621.4	622.1
150°	535.5	553.5	569.8	582.7	592.1	597.3	597.3
152.5°	525.1	541.1	554.7	564.8	573.6	576.7	576.7
155°	510.5	523.4	533.7	541.5	548.3	550.0	550.9
157.5°	496.2	506.2	514.3	521.0	526.2	527.5	527.4
160°	487.3	495.8	501.9	507.9	513.1	513.1	512.2
162.5°	477.7	485.6	490.9	494.9	499.3	499.3	498.4
165°	464.1	470.1	474.4	477.9	481.3	480.4	480.4
167.5°	453.6	457.0	460.1	461.7	464.1	463.2	463.2
170°	446.1	449.4	451.2	452.0	453.7	452.9	452.9
172.5°	439.9	442.6	443.7	443.8	445.6	444.0	443.3
175°	431.4	433.2	433.2	433.2	434.0	433.2	432.3
177.5°	426.6	427.3	427.3	426.6	427.3	425.9	425.9
180°	424.6	424.6	424.6	424.6	424.6	424.6	424.6

(END OF REPORT)