

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: P332029-940

Luminaire Tested: **S123DIP-S1000D1025U940-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332029-940
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-S1000D1025U940-4F0-1E-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: 7091.6 lumens
Efficiency: N/A
Efficacy: 117.2 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

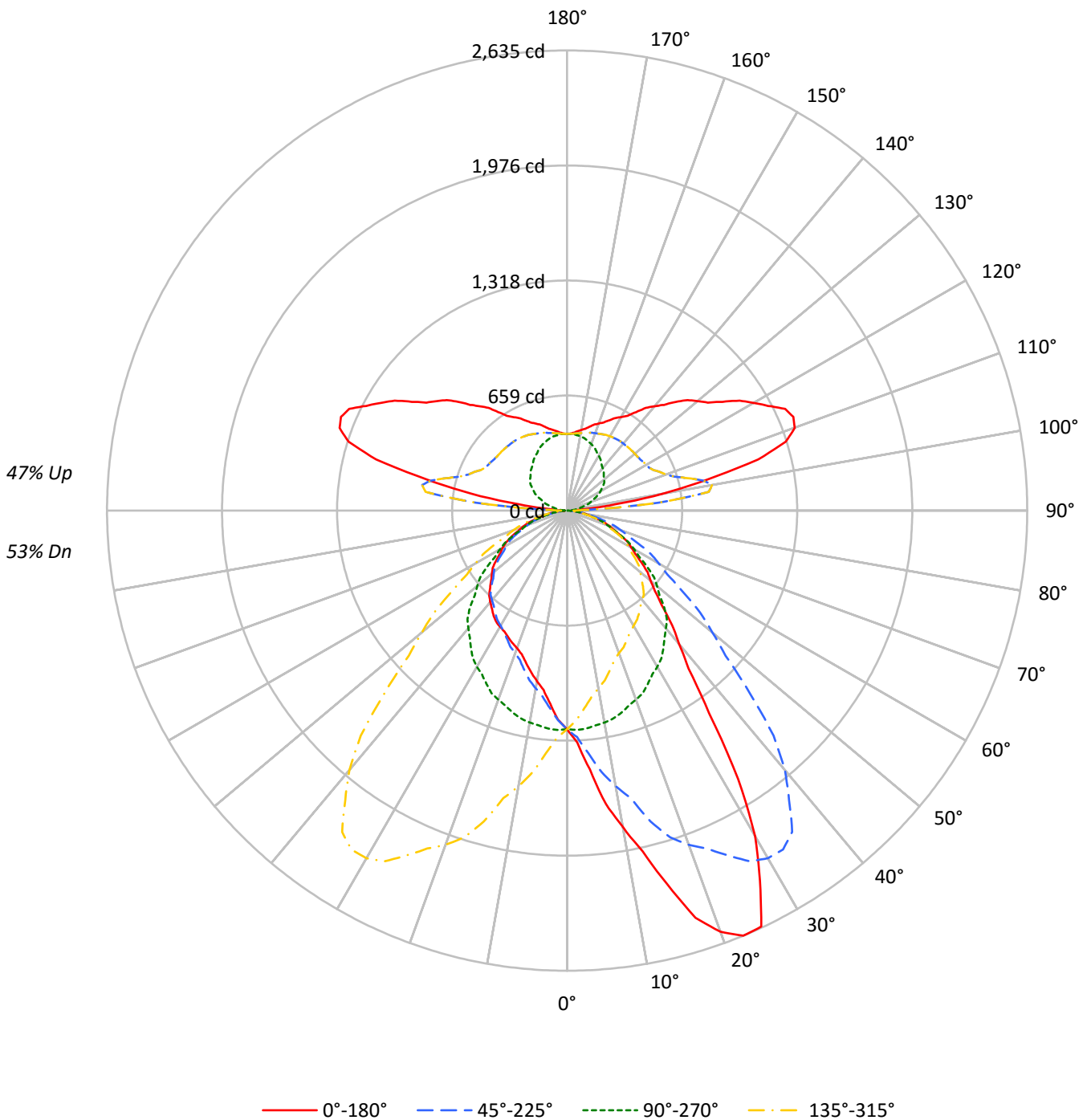
Input Watts (W): 60.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.4	1.7
10°-20°	395.6	5.6
20°-30°	664.0	9.4
30°-40°	751.8	10.6
40°-50°	674.2	9.5
50°-60°	544.1	7.7
60°-70°	379.1	5.3
70°-80°	199.3	2.8
80°-90°	52.1	0.7
90°-100°	244.7	3.5
100°-110°	692.9	9.8
110°-120°	681.6	9.6
120°-130°	543.7	7.7
130°-140°	428.7	6.0
140°-150°	319.9	4.5
150°-160°	223.0	3.1
160°-170°	131.0	1.8
170°-180°	42.6	0.6
0°-30°	1182.9	16.7
0°-40°	1934.7	27.3
0°-60°	3153.0	44.5
0°-90°	3783.5	53.4
90°-120°	1619.2	22.8
90°-150°	2911.5	41.1
90°-180°	3308.0	46.6
0°-180°	7091.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1252	1252	1252	1252	1252	
5°	1488	1253	1110	1253	1488	154
15°	2215	1199	905	1199	2215	639
25°	2629	1093	800	1093	2629	1153
35°	1416	961	734	961	1416	920
45°	765	788	624	788	765	605
55°	519	555	495	555	519	466
65°	337	342	350	342	337	336
75°	174	163	187	163	174	186
85°	40	33	36	33	40	48
90°	26	2	26	2	26	16
95°	103	30	103	30	103	186
105°	1132	103	1132	103	1132	1117
115°	1377	182	1377	182	1377	1338
125°	1086	254	1086	254	1086	984
135°	880	297	880	297	880	683
145°	688	339	688	339	688	438
155°	570	385	570	385	570	266
165°	498	421	498	421	498	142
175°	448	439	448	439	448	43
180°	440	440	440	440	440	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4
2.5°	1329.1	1328.2	1325.7	1327.7	1323.8	1318.5	1317.9	1313.1	1299.0	1298.1	1294.2
5°	1487.9	1483.0	1482.4	1481.8	1473.3	1461.8	1439.9	1438.2	1409.0	1394.5	1376.8
7.5°	1693.4	1696.0	1687.1	1679.4	1653.4	1636.3	1612.8	1582.9	1547.1	1510.8	1486.7
10°	1841.0	1861.1	1836.2	1819.2	1803.4	1773.7	1739.1	1696.0	1653.0	1602.6	1564.3
12.5°	1999.3	2009.1	2004.1	1988.2	1963.6	1918.3	1857.1	1809.6	1770.0	1686.0	1652.2
15°	2214.8	2251.8	2228.2	2173.5	2174.8	2131.7	2051.6	1963.6	1916.9	1843.4	1743.4
17.5°	2444.4	2449.1	2439.0	2393.4	2363.1	2303.9	2230.0	2145.6	2051.0	1962.1	1856.0
20°	2566.8	2563.1	2541.9	2518.2	2466.0	2419.9	2339.2	2245.1	2123.8	2036.4	1920.6
22.5°	2634.7	2628.7	2618.6	2598.8	2555.4	2505.9	2433.4	2330.6	2215.1	2094.7	1960.8
25°	2628.7	2636.5	2637.8	2632.3	2617.2	2587.4	2530.3	2448.5	2333.2	2178.4	2038.9
27.5°	2390.8	2402.0	2434.4	2463.2	2495.3	2528.1	2523.7	2483.1	2397.7	2264.1	2093.5
30°	2152.9	2128.7	2188.7	2264.6	2316.1	2407.2	2458.2	2461.2	2413.2	2298.6	2132.3
32.5°	1822.8	1849.5	1876.1	1969.4	2082.1	2184.3	2285.8	2367.5	2376.9	2300.5	2155.1
35°	1416.3	1449.7	1498.2	1546.8	1668.1	1772.5	1950.9	2106.2	2230.0	2246.4	2157.1
37.5°	1141.3	1157.8	1188.5	1237.2	1316.5	1440.3	1578.3	1774.7	1954.0	2087.4	2093.2
40°	997.6	1002.5	1037.1	1074.1	1138.4	1240.3	1364.7	1538.2	1753.0	1939.4	2017.0
42.5°	889.8	900.4	915.2	950.7	1001.9	1078.6	1194.3	1337.7	1534.6	1749.0	1900.9
45°	764.6	776.7	785.8	809.5	845.9	897.4	978.2	1109.2	1259.1	1480.6	1685.1
47.5°	681.8	682.8	689.6	707.4	732.2	770.9	828.0	912.1	1049.7	1229.4	1439.3
50°	622.6	632.3	634.7	648.6	668.1	696.6	744.0	815.6	928.4	1086.2	1279.2
52.5°	580.9	583.7	590.6	600.7	617.6	639.8	680.8	736.9	825.5	959.9	1137.4
55°	519.4	519.4	526.1	534.0	543.7	563.7	591.0	632.3	699.6	804.1	950.8
57.5°	462.6	465.7	470.4	472.8	481.1	494.3	517.1	548.4	598.7	679.0	795.8
60°	424.7	430.3	429.6	434.4	441.8	452.1	471.4	497.0	541.9	606.2	704.5
62.5°	391.7	391.4	391.3	397.1	404.4	414.2	426.9	448.9	487.1	544.0	627.8
65°	337.4	336.2	340.5	344.0	346.5	353.7	363.5	382.9	408.4	450.8	515.8
67.5°	289.1	285.5	287.8	289.1	293.2	298.9	308.0	320.0	340.3	374.4	423.3
70°	256.1	253.1	252.4	253.6	257.3	261.5	268.2	279.7	298.5	325.8	361.7
72.5°	222.1	220.0	219.9	222.6	224.3	227.0	231.8	242.4	257.3	277.8	311.2
75°	173.5	173.5	173.5	174.2	175.9	178.4	182.0	187.5	199.0	213.6	236.0
77.5°	130.1	130.0	129.2	129.1	131.8	132.9	133.8	138.8	145.3	155.1	171.5
80°	101.9	98.9	100.1	101.9	103.2	103.8	105.6	106.8	112.3	117.7	129.2
82.5°	75.7	73.2	73.4	76.2	76.4	77.0	78.9	80.6	82.7	87.7	93.8
85°	40.0	40.0	40.7	40.7	41.3	40.7	42.4	43.1	43.1	46.1	49.8
87.5°	19.7	18.9	19.3	19.5	19.3	19.4	19.7	20.0	20.3	21.0	20.9
90°	25.8	26.7	25.8	24.9	25.8	24.1	23.2	22.3	21.4	22.3	19.6
92.5°	42.9	44.5	43.6	46.3	47.9	52.5	59.5	74.9	103.3	136.9	150.6
95°	103.3	106.8	113.1	121.1	137.9	170.0	217.2	320.4	428.1	527.8	469.9
97.5°	281.1	288.7	312.8	352.8	418.5	525.0	639.8	798.8	875.1	818.0	598.9
100°	558.1	557.2	591.9	656.9	746.8	873.2	977.3	1049.5	1018.2	842.9	569.6
102.5°	818.7	839.2	868.2	919.6	989.6	1069.7	1130.4	1132.7	1025.4	796.7	526.9
105°	1132.2	1136.7	1165.1	1198.9	1239.9	1263.0	1246.2	1157.1	971.1	715.6	474.4
107.5°	1312.7	1320.9	1330.5	1341.9	1341.2	1309.5	1231.5	1087.0	876.0	644.1	441.0
110°	1386.8	1388.6	1390.4	1383.2	1358.3	1295.9	1183.8	1020.0	816.2	603.5	428.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1401.7	1401.3	1394.5	1372.5	1327.0	1246.8	1121.1	953.8	764.2	576.4	421.0
115°	1377.0	1372.5	1354.7	1315.5	1248.8	1151.7	1020.9	866.0	701.4	547.4	418.3
117.5°	1298.2	1292.3	1266.6	1221.7	1152.1	1053.6	936.2	802.5	663.4	530.3	419.9
120°	1232.8	1227.4	1206.0	1156.2	1085.9	996.0	889.2	769.0	643.5	522.5	422.8
122.5°	1171.5	1164.8	1141.3	1096.4	1033.9	950.5	851.5	742.7	627.1	517.5	427.8
125°	1085.9	1079.7	1057.4	1018.2	961.3	890.1	804.7	707.7	606.2	511.0	435.2
127.5°	1015.4	1009.7	989.6	956.1	905.4	840.6	763.5	677.0	587.6	507.7	443.8
130°	975.5	968.4	949.8	917.7	870.5	809.9	737.9	657.8	577.7	505.6	449.5
132.5°	936.4	931.4	914.8	882.8	838.5	780.8	713.6	640.0	568.4	504.9	453.8
135°	880.3	874.1	858.0	831.3	787.7	737.0	679.1	615.9	556.3	503.8	460.2
137.5°	821.0	816.9	803.4	776.3	739.7	695.7	645.9	594.1	545.8	501.9	464.4
140°	779.7	780.6	766.3	741.5	707.7	669.3	626.6	581.2	539.4	501.1	467.3
142.5°	741.3	742.2	729.3	707.3	678.4	645.2	608.1	569.1	533.7	499.7	469.4
145°	688.0	686.3	679.1	660.4	638.2	612.3	583.9	554.6	526.0	497.6	470.8
147.5°	644.3	643.5	636.8	624.1	607.3	588.9	565.9	542.6	518.5	494.2	470.8
150°	618.6	618.6	613.2	603.5	590.1	573.2	554.6	534.0	513.5	491.3	470.8
152.5°	597.3	597.3	594.1	585.0	574.4	560.4	543.9	526.2	507.9	487.8	468.7
155°	570.5	569.6	567.8	560.8	552.8	542.1	528.7	514.4	499.4	481.5	466.4
157.5°	546.2	546.4	544.9	539.6	532.6	524.2	513.9	502.0	489.7	476.0	463.4
160°	530.5	531.4	531.4	526.0	519.8	513.5	504.7	494.9	483.3	471.7	462.0
162.5°	516.2	517.1	517.1	512.6	508.5	502.9	494.7	486.3	476.9	467.4	459.1
165°	497.6	497.6	498.5	494.9	491.3	486.9	480.6	475.3	468.1	461.1	454.9
167.5°	479.7	479.7	480.6	478.1	476.5	473.3	469.8	465.7	459.9	454.7	450.6
170°	469.0	469.0	469.9	468.1	467.3	465.5	462.0	459.3	454.9	450.4	447.7
172.5°	459.1	459.9	461.5	459.7	459.5	458.4	455.6	453.6	449.9	446.8	445.6
175°	447.7	448.6	449.5	448.6	448.6	448.6	446.8	445.9	444.2	442.4	442.4
177.5°	441.1	441.1	442.6	441.8	442.6	442.6	441.8	441.1	440.4	439.7	440.4
180°	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4
2.5°	1291.3	1287.4	1283.5	1276.8	1270.9	1262.7	1260.2	1257.3	1248.6	1240.8	1234.9
5°	1370.1	1355.6	1334.4	1314.9	1299.1	1277.9	1265.8	1253.0	1234.8	1218.4	1205.1
7.5°	1452.7	1424.1	1391.1	1355.3	1322.1	1290.0	1264.2	1241.2	1215.7	1191.5	1172.7
10°	1518.2	1476.9	1430.8	1381.1	1338.6	1297.4	1262.8	1232.4	1199.6	1171.1	1147.5
12.5°	1593.0	1531.8	1468.2	1407.7	1357.5	1300.3	1258.4	1219.8	1182.7	1148.3	1121.8
15°	1681.4	1603.7	1528.6	1445.4	1369.0	1297.4	1247.6	1199.1	1155.9	1120.8	1086.8
17.5°	1762.0	1674.0	1574.9	1473.8	1381.5	1296.6	1227.0	1172.1	1118.2	1075.1	1041.3
20°	1807.7	1707.5	1595.3	1490.3	1388.4	1293.7	1217.3	1151.7	1093.4	1047.9	1009.7
22.5°	1847.0	1729.8	1613.7	1501.5	1387.9	1285.9	1199.3	1131.8	1068.7	1024.1	983.5
25°	1887.8	1747.6	1631.1	1499.4	1372.6	1267.0	1169.9	1093.4	1030.4	978.2	936.3
27.5°	1922.7	1746.4	1608.1	1466.5	1348.5	1242.7	1139.1	1057.0	990.1	933.4	890.9
30°	1946.0	1748.8	1584.4	1444.2	1325.3	1216.0	1115.3	1032.8	962.4	904.7	864.7
32.5°	1960.6	1747.3	1562.5	1413.1	1288.3	1191.8	1089.6	1004.2	931.8	875.1	836.5
35°	1969.1	1736.7	1524.9	1348.9	1228.8	1134.7	1049.2	960.6	884.8	832.0	788.3
37.5°	1952.0	1714.2	1481.2	1287.0	1155.5	1062.8	990.9	915.4	842.8	784.7	747.1
40°	1925.4	1699.7	1447.2	1243.3	1105.0	1015.7	954.5	880.5	808.9	753.7	718.5
42.5°	1874.4	1670.0	1409.9	1194.8	1052.6	963.3	907.0	845.1	777.3	725.5	690.3
45°	1750.0	1605.6	1353.8	1122.0	975.1	882.9	833.1	788.3	726.9	676.5	646.2
47.5°	1577.4	1508.6	1272.7	1045.2	894.3	805.6	753.9	717.7	673.0	632.3	603.2
50°	1457.5	1429.1	1217.8	992.7	840.4	753.7	703.9	671.1	639.0	598.3	571.6
52.5°	1319.2	1336.8	1153.8	938.3	785.6	700.3	653.4	627.4	598.2	564.8	541.5
55°	1124.4	1188.1	1043.1	847.1	703.9	622.6	578.3	555.2	538.2	513.4	493.3
57.5°	942.0	1023.1	923.5	753.0	623.7	553.5	511.0	485.9	475.0	462.0	446.2
60°	833.7	913.8	838.0	689.9	569.8	503.0	465.4	444.2	433.3	424.2	410.8
62.5°	737.2	818.2	754.5	625.9	516.8	455.0	422.2	401.4	393.0	388.3	376.8
65°	604.4	674.1	631.7	526.1	441.1	386.6	356.8	342.2	334.4	332.5	325.2
67.5°	491.9	545.0	514.1	436.4	369.5	322.4	297.1	284.7	278.7	278.0	272.6
70°	418.1	467.9	444.2	373.8	316.1	279.1	257.3	246.4	242.7	242.1	239.1
72.5°	360.8	395.5	376.7	318.0	273.4	239.8	223.8	212.4	208.2	209.1	207.1
75°	267.0	293.1	282.1	241.5	205.7	183.9	170.5	163.3	159.6	161.4	159.0
77.5°	192.1	208.7	198.8	170.7	148.6	132.8	123.0	118.4	115.2	115.0	114.0
80°	145.0	154.7	149.3	132.2	114.0	100.8	92.8	89.8	88.0	87.4	86.8
82.5°	103.3	111.6	105.1	93.5	81.1	73.0	68.6	64.6	63.2	63.6	63.0
85°	52.2	55.2	52.8	45.5	40.7	37.0	34.6	32.7	31.6	32.2	30.9
87.5°	21.3	21.3	19.3	17.0	15.7	13.7	13.4	12.0	11.4	11.8	11.8
90°	16.9	14.3	11.6	9.8	8.0	5.4	3.6	1.8	3.6	5.4	8.0
92.5°	113.1	74.7	51.5	38.3	30.8	23.9	16.4	11.1	16.4	23.9	30.8
95°	324.0	191.4	115.7	81.0	57.9	42.7	32.9	30.2	32.9	42.7	57.9
97.5°	355.5	206.0	133.7	96.1	73.3	60.2	52.5	51.6	52.5	60.2	73.3
100°	335.6	203.8	141.5	106.8	85.4	73.0	66.8	65.9	66.8	73.0	85.4
102.5°	318.4	206.7	150.8	119.0	99.7	87.9	82.4	80.8	82.4	87.9	99.7
105°	306.2	214.5	166.5	138.8	122.0	111.3	105.9	103.3	105.9	111.3	122.0
107.5°	305.3	229.1	186.9	161.3	145.4	134.9	129.7	127.1	129.7	134.9	145.4
110°	308.9	241.2	201.2	176.2	161.1	151.3	146.9	144.2	146.9	151.3	161.1



TEST NUMBER: P332029-940

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	316.0	253.3	216.2	191.9	176.7	167.0	162.6	159.9	162.6	167.0	176.7
115°	327.5	273.2	239.4	215.4	200.3	191.4	186.0	182.4	186.0	191.4	200.3
117.5°	342.9	294.4	261.0	238.7	221.8	213.7	209.2	205.1	209.2	213.7	221.8
120°	354.3	308.0	275.9	253.7	236.7	227.8	223.4	220.7	223.4	227.8	236.7
122.5°	365.0	322.2	290.9	267.2	251.0	241.4	236.9	234.3	236.9	241.4	251.0
125°	381.8	342.7	311.6	287.5	270.5	260.8	255.5	253.7	255.5	260.8	270.5
127.5°	395.7	360.5	330.4	306.4	287.7	277.7	271.1	268.5	271.1	277.7	287.7
130°	405.0	371.1	341.8	317.7	299.1	288.4	280.4	277.7	280.4	288.4	299.1
132.5°	413.6	380.4	351.8	328.4	309.8	296.9	288.2	284.8	288.2	296.9	309.8
135°	424.5	394.3	366.7	342.7	324.0	310.7	300.9	297.3	300.9	310.7	324.0
137.5°	432.7	403.9	377.4	355.2	336.6	322.4	312.8	309.1	312.8	322.4	336.6
140°	437.0	410.4	384.5	362.3	344.5	330.2	321.3	316.9	321.3	330.2	344.5
142.5°	441.3	415.4	390.2	369.3	351.6	338.8	329.1	325.4	329.1	338.8	351.6
145°	445.9	421.9	398.8	378.3	363.2	349.8	341.8	339.1	341.8	349.8	363.2
147.5°	448.8	427.2	406.1	388.6	374.0	362.5	354.6	353.0	354.6	362.5	374.0
150°	449.5	430.8	410.4	394.3	381.8	370.2	363.2	362.3	363.2	370.2	381.8
152.5°	450.9	432.9	415.4	400.0	389.0	378.8	371.7	371.5	371.7	378.8	389.0
155°	451.3	437.0	421.9	409.5	399.7	390.7	385.4	385.4	385.4	390.7	399.7
157.5°	452.2	439.3	427.2	417.6	409.3	401.4	397.2	396.5	397.2	401.4	409.3
160°	452.2	441.5	430.8	421.9	415.6	408.6	405.0	405.0	405.0	408.6	415.6
162.5°	451.5	442.2	432.9	425.4	419.9	414.3	411.4	411.4	411.4	414.3	419.9
165°	449.5	443.3	436.1	429.9	426.3	421.9	420.1	421.0	420.1	421.9	426.3
167.5°	448.1	443.1	437.9	434.0	431.5	428.1	427.2	428.3	427.2	428.1	431.5
170°	445.9	442.4	437.9	436.1	434.4	431.7	430.8	432.6	430.8	431.7	434.4
172.5°	445.2	442.4	438.6	437.6	436.5	434.5	434.4	435.4	434.4	434.5	436.5
175°	443.3	441.5	439.7	438.8	438.8	437.0	437.9	438.8	437.9	437.0	438.8
177.5°	441.8	440.4	439.7	439.7	439.7	439.0	439.7	440.4	439.7	439.0	439.7
180°	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7



TEST NUMBER: P332029-940

CATALOG NUMBER: S123DIP-S1000D1025U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4
2.5°	1231.5	1228.2	1223.3	1216.0	1210.2	1201.0	1201.0	1202.5	1202.5	1201.9	1201.0
5°	1194.2	1185.1	1174.2	1161.5	1148.1	1134.7	1132.3	1127.5	1123.8	1121.3	1118.3
7.5°	1154.8	1138.6	1122.7	1104.8	1088.6	1075.1	1065.8	1058.0	1053.0	1047.7	1043.8
10°	1128.0	1108.0	1089.2	1070.4	1049.7	1033.4	1023.1	1015.7	1010.3	1005.5	1003.1
12.5°	1096.4	1073.5	1052.8	1034.9	1012.4	995.5	985.7	982.3	975.9	965.6	960.3
15°	1050.3	1029.1	1004.2	977.0	966.0	945.4	933.9	928.4	924.8	916.9	914.4
17.5°	1010.9	983.1	955.2	934.9	914.5	897.9	891.4	884.6	879.8	873.3	871.4
20°	979.4	954.5	929.0	907.1	885.9	867.7	862.3	857.4	852.6	849.5	847.1
22.5°	947.4	922.5	901.3	880.9	858.3	846.3	840.4	835.1	831.7	829.6	827.2
25°	902.3	880.5	856.8	838.6	820.4	812.5	808.9	805.8	803.4	800.4	799.8
27.5°	862.0	838.2	819.0	802.1	789.0	782.4	778.9	777.4	777.9	779.0	779.7
30°	832.0	810.1	794.3	779.7	767.6	761.5	760.9	760.9	763.4	763.9	765.2
32.5°	804.2	786.3	770.5	756.4	747.3	743.1	745.4	745.4	747.3	748.9	751.1
35°	763.9	748.1	736.0	723.9	716.0	717.8	719.1	720.2	723.3	726.9	729.4
37.5°	725.5	711.8	699.2	689.6	686.1	689.3	692.2	694.8	698.3	701.1	703.6
40°	697.9	687.5	675.4	666.9	668.1	669.9	672.3	675.4	678.4	680.2	682.7
42.5°	672.1	661.3	652.1	645.1	646.8	649.1	650.5	652.1	655.6	658.9	660.3
45°	632.9	624.4	615.9	611.6	612.9	614.1	615.3	617.2	620.2	622.6	623.2
47.5°	588.8	582.9	577.2	573.1	575.0	574.5	576.1	580.0	580.9	582.4	585.8
50°	560.7	555.2	548.6	547.3	547.3	547.3	548.0	552.8	552.8	555.2	557.7
52.5°	529.6	526.1	521.8	519.7	518.7	518.7	521.2	523.7	524.7	528.1	530.5
55°	483.7	480.0	476.4	474.5	473.3	474.5	479.4	480.5	483.7	485.4	487.2
57.5°	435.7	432.9	430.0	429.0	428.7	430.3	433.0	436.7	437.4	443.0	445.8
60°	404.1	399.8	397.4	397.4	396.3	401.7	400.5	406.5	407.8	411.4	415.6
62.5°	371.6	365.9	364.9	364.9	366.7	368.2	369.9	372.6	375.8	380.3	383.6
65°	319.1	316.1	320.4	319.8	318.6	322.2	322.2	325.2	328.9	333.1	339.8
67.5°	269.6	268.0	268.3	268.3	270.2	272.2	273.9	276.6	281.0	285.4	289.8
70°	236.0	237.9	234.9	237.3	239.1	239.7	240.9	244.5	249.4	252.4	257.3
72.5°	203.5	203.4	203.8	204.7	206.5	207.7	208.8	213.0	218.3	220.9	224.8
75°	156.6	156.0	157.7	157.7	160.8	162.0	163.3	165.1	169.9	173.5	176.6
77.5°	114.3	115.0	114.7	116.7	115.9	116.1	119.9	121.7	122.3	129.4	131.0
80°	86.1	87.4	88.0	88.6	89.2	88.0	92.2	94.1	94.1	98.3	101.3
82.5°	61.9	62.6	64.2	64.8	64.9	66.2	66.5	67.9	69.3	71.2	75.1
85°	30.9	32.7	33.3	32.7	33.3	32.2	34.0	34.6	35.2	35.2	35.2
87.5°	11.7	12.5	12.6	13.6	13.6	14.6	14.4	13.6	13.8	15.5	13.9
90°	9.8	11.6	14.3	16.9	19.6	22.3	21.4	22.3	23.2	24.1	25.8
92.5°	38.3	51.5	74.7	113.1	150.6	136.9	103.3	74.9	59.5	52.5	47.9
95°	81.0	115.7	191.4	324.0	469.9	527.8	428.1	320.4	217.2	170.0	137.9
97.5°	96.1	133.7	206.0	355.5	598.9	818.0	875.1	798.8	639.8	525.0	418.5
100°	106.8	141.5	203.8	335.6	569.6	842.9	1018.2	1049.5	977.3	873.2	746.8
102.5°	119.0	150.8	206.7	318.4	526.9	796.7	1025.4	1132.7	1130.4	1069.7	989.6
105°	138.8	166.5	214.5	306.2	474.4	715.6	971.1	1157.1	1246.2	1263.0	1239.9
107.5°	161.3	186.9	229.1	305.3	441.0	644.1	876.0	1087.0	1231.5	1309.5	1341.2
110°	176.2	201.2	241.2	308.9	428.1	603.5	816.2	1020.0	1183.8	1295.9	1358.3



TEST NUMBER: P332029-940

CATALOG NUMBER: S123DIP-S1000D1025U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	191.9	216.2	253.3	316.0	421.0	576.4	764.2	953.8	1121.1	1246.8	1327.0
115°	215.4	239.4	273.2	327.5	418.3	547.4	701.4	866.0	1020.9	1151.7	1248.8
117.5°	238.7	261.0	294.4	342.9	419.9	530.3	663.4	802.5	936.2	1053.6	1152.1
120°	253.7	275.9	308.0	354.3	422.8	522.5	643.5	769.0	889.2	996.0	1085.9
122.5°	267.2	290.9	322.2	365.0	427.8	517.5	627.1	742.7	851.5	950.5	1033.9
125°	287.5	311.6	342.7	381.8	435.2	511.0	606.2	707.7	804.7	890.1	961.3
127.5°	306.4	330.4	360.5	395.7	443.8	507.7	587.6	677.0	763.5	840.6	905.4
130°	317.7	341.8	371.1	405.0	449.5	505.6	577.7	657.8	737.9	809.9	870.5
132.5°	328.4	351.8	380.4	413.6	453.8	504.9	568.4	640.0	713.6	780.8	838.5
135°	342.7	366.7	394.3	424.5	460.2	503.8	556.3	615.9	679.1	737.0	787.7
137.5°	355.2	377.4	403.9	432.7	464.4	501.9	545.8	594.1	645.9	695.7	739.7
140°	362.3	384.5	410.4	437.0	467.3	501.1	539.4	581.2	626.6	669.3	707.7
142.5°	369.3	390.2	415.4	441.3	469.4	499.7	533.7	569.1	608.1	645.2	678.4
145°	378.3	398.8	421.9	445.9	470.8	497.6	526.0	554.6	583.9	612.3	638.2
147.5°	388.6	406.1	427.2	448.8	470.8	494.2	518.5	542.6	565.9	588.9	607.3
150°	394.3	410.4	430.8	449.5	470.8	491.3	513.5	534.0	554.6	573.2	590.1
152.5°	400.0	415.4	432.9	450.9	468.7	487.8	507.9	526.2	543.9	560.4	574.4
155°	409.5	421.9	437.0	451.3	466.4	481.5	499.4	514.4	528.7	542.1	552.8
157.5°	417.6	427.2	439.3	452.2	463.4	476.0	489.7	502.0	513.9	524.2	532.6
160°	421.9	430.8	441.5	452.2	462.0	471.7	483.3	494.9	504.7	513.5	519.8
162.5°	425.4	432.9	442.2	451.5	459.1	467.4	476.9	486.3	494.7	502.9	508.5
165°	429.9	436.1	443.3	449.5	454.9	461.1	468.1	475.3	480.6	486.9	491.3
167.5°	434.0	437.9	443.1	448.1	450.6	454.7	459.9	465.7	469.8	473.3	476.5
170°	436.1	437.9	442.4	445.9	447.7	450.4	454.9	459.3	462.0	465.5	467.3
172.5°	437.6	438.6	442.4	445.2	445.6	446.8	449.9	453.6	455.6	458.4	459.5
175°	438.8	439.7	441.5	443.3	442.4	442.4	444.2	445.9	446.8	448.6	448.6
177.5°	439.7	439.7	440.4	441.8	440.4	439.7	440.4	441.1	441.8	442.6	442.6
180°	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7



TEST NUMBER: P332029-940

CATALOG NUMBER: S123DIP-S1000D1025U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4
2.5°	1197.6	1197.1	1200.5	1198.1	1200.5	1197.1	1197.6	1201.0	1201.9	1202.5	1202.5
5°	1114.7	1116.5	1110.4	1110.4	1110.4	1116.5	1114.7	1118.3	1121.3	1123.8	1127.5
7.5°	1040.9	1038.2	1038.5	1035.2	1038.5	1038.2	1040.9	1043.8	1047.7	1053.0	1058.0
10°	995.8	992.1	990.9	991.5	990.9	992.1	995.8	1003.1	1005.5	1010.3	1015.7
12.5°	958.4	957.7	949.7	949.8	949.7	957.7	958.4	960.3	965.6	975.9	982.3
15°	914.4	902.9	901.7	905.4	901.7	902.9	914.4	914.4	916.9	924.8	928.4
17.5°	870.4	864.3	864.7	862.9	864.7	864.3	870.4	871.4	873.3	879.8	884.6
20°	847.1	843.5	842.8	838.6	842.8	843.5	847.1	847.1	849.5	852.6	857.4
22.5°	825.7	824.6	824.9	820.2	824.9	824.6	825.7	827.2	829.6	831.7	835.1
25°	799.2	802.2	799.8	799.8	799.8	802.2	799.2	799.8	800.4	803.4	805.8
27.5°	781.2	781.0	779.9	779.9	779.9	781.0	781.2	779.7	779.0	777.9	777.4
30°	767.6	767.0	768.2	768.2	768.2	767.0	767.6	765.2	763.9	763.4	760.9
32.5°	754.0	754.8	755.1	755.5	755.1	754.8	754.0	751.1	748.9	747.3	745.4
35°	733.0	733.6	735.5	734.2	735.5	733.6	733.0	729.4	726.9	723.3	720.2
37.5°	704.6	707.4	706.8	707.8	706.8	707.4	704.6	703.6	701.1	698.3	694.8
40°	683.2	685.1	684.5	684.5	684.5	685.1	683.2	682.7	680.2	678.4	675.4
42.5°	661.4	662.7	661.2	660.2	661.2	662.7	661.4	660.3	658.9	655.6	652.1
45°	625.6	624.4	626.2	623.8	626.2	624.4	625.6	623.2	622.6	620.2	617.2
47.5°	585.6	586.7	587.3	589.1	587.3	586.7	585.6	585.8	582.4	580.9	580.0
50°	558.8	562.5	562.5	561.9	562.5	562.5	558.8	557.7	555.2	552.8	552.8
52.5°	532.6	534.3	536.8	536.6	536.8	534.3	532.6	530.5	528.1	524.7	523.7
55°	492.1	493.3	494.5	495.2	494.5	493.3	492.1	487.2	485.4	483.7	480.5
57.5°	450.1	449.6	452.5	453.4	452.5	449.6	450.1	445.8	443.0	437.4	436.7
60°	420.5	420.5	425.3	427.2	425.3	420.5	420.5	415.6	411.4	407.8	406.5
62.5°	389.0	390.9	395.7	393.2	395.7	390.9	389.0	383.6	380.3	375.8	372.6
65°	342.9	347.7	347.1	349.6	347.1	347.7	342.9	339.8	333.1	328.9	325.2
67.5°	294.6	297.7	302.0	302.5	302.0	297.7	294.6	289.8	285.4	281.0	276.6
70°	262.2	265.2	267.6	269.4	267.6	265.2	262.2	257.3	252.4	249.4	244.5
72.5°	230.6	232.2	238.0	235.4	238.0	232.2	230.6	224.8	220.9	218.3	213.0
75°	180.8	185.0	188.7	186.9	188.7	185.0	180.8	176.6	173.5	169.9	165.1
77.5°	133.8	137.9	139.6	138.1	139.6	137.9	133.8	131.0	129.4	122.3	121.7
80°	105.6	105.0	108.6	108.0	108.6	105.0	105.6	101.3	98.3	94.1	94.1
82.5°	77.4	76.9	78.6	78.9	78.6	76.9	77.4	75.1	71.2	69.3	67.9
85°	37.6	39.4	37.0	36.4	37.0	39.4	37.6	35.2	35.2	35.2	34.6
87.5°	13.7	13.9	13.6	12.9	13.6	13.9	13.7	13.9	15.5	13.8	13.6
90°	24.9	25.8	26.7	25.8	26.7	25.8	24.9	25.8	24.1	23.2	22.3
92.5°	46.3	43.6	44.5	42.9	44.5	43.6	46.3	47.9	52.5	59.5	74.9
95°	121.1	113.1	106.8	103.3	106.8	113.1	121.1	137.9	170.0	217.2	320.4
97.5°	352.8	312.8	288.7	281.1	288.7	312.8	352.8	418.5	525.0	639.8	798.8
100°	656.9	591.9	557.2	558.1	557.2	591.9	656.9	746.8	873.2	977.3	1049.5
102.5°	919.6	868.2	839.2	818.7	839.2	868.2	919.6	989.6	1069.7	1130.4	1132.7
105°	1198.9	1165.1	1136.7	1132.2	1136.7	1165.1	1198.9	1239.9	1263.0	1246.2	1157.1
107.5°	1341.9	1330.5	1320.9	1312.7	1320.9	1330.5	1341.9	1341.2	1309.5	1231.5	1087.0
110°	1383.2	1390.4	1388.6	1386.8	1388.6	1390.4	1383.2	1358.3	1295.9	1183.8	1020.0



TEST NUMBER: P332029-940

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1372.5	1394.5	1401.3	1401.7	1401.3	1394.5	1372.5	1327.0	1246.8	1121.1	953.8
115°	1315.5	1354.7	1372.5	1377.0	1372.5	1354.7	1315.5	1248.8	1151.7	1020.9	866.0
117.5°	1221.7	1266.6	1292.3	1298.2	1292.3	1266.6	1221.7	1152.1	1053.6	936.2	802.5
120°	1156.2	1206.0	1227.4	1232.8	1227.4	1206.0	1156.2	1085.9	996.0	889.2	769.0
122.5°	1096.4	1141.3	1164.8	1171.5	1164.8	1141.3	1096.4	1033.9	950.5	851.5	742.7
125°	1018.2	1057.4	1079.7	1085.9	1079.7	1057.4	1018.2	961.3	890.1	804.7	707.7
127.5°	956.1	989.6	1009.7	1015.4	1009.7	989.6	956.1	905.4	840.6	763.5	677.0
130°	917.7	949.8	968.4	975.5	968.4	949.8	917.7	870.5	809.9	737.9	657.8
132.5°	882.8	914.8	931.4	936.4	931.4	914.8	882.8	838.5	780.8	713.6	640.0
135°	831.3	858.0	874.1	880.3	874.1	858.0	831.3	787.7	737.0	679.1	615.9
137.5°	776.3	803.4	816.9	821.0	816.9	803.4	776.3	739.7	695.7	645.9	594.1
140°	741.5	766.3	780.6	779.7	780.6	766.3	741.5	707.7	669.3	626.6	581.2
142.5°	707.3	729.3	742.2	741.3	742.2	729.3	707.3	678.4	645.2	608.1	569.1
145°	660.4	679.1	686.3	688.0	686.3	679.1	660.4	638.2	612.3	583.9	554.6
147.5°	624.1	636.8	643.5	644.3	643.5	636.8	624.1	607.3	588.9	565.9	542.6
150°	603.5	613.2	618.6	618.6	618.6	613.2	603.5	590.1	573.2	554.6	534.0
152.5°	585.0	594.1	597.3	597.3	597.3	594.1	585.0	574.4	560.4	543.9	526.2
155°	560.8	567.8	569.6	570.5	569.6	567.8	560.8	552.8	542.1	528.7	514.4
157.5°	539.6	544.9	546.4	546.2	546.4	544.9	539.6	532.6	524.2	513.9	502.0
160°	526.0	531.4	531.4	530.5	531.4	531.4	526.0	519.8	513.5	504.7	494.9
162.5°	512.6	517.1	517.1	516.2	517.1	517.1	512.6	508.5	502.9	494.7	486.3
165°	494.9	498.5	497.6	497.6	497.6	498.5	494.9	491.3	486.9	480.6	475.3
167.5°	478.1	480.6	479.7	479.7	479.7	480.6	478.1	476.5	473.3	469.8	465.7
170°	468.1	469.9	469.0	469.0	469.0	469.9	468.1	467.3	465.5	462.0	459.3
172.5°	459.7	461.5	459.9	459.1	459.9	461.5	459.7	459.5	458.4	455.6	453.6
175°	448.6	449.5	448.6	447.7	448.6	449.5	448.6	448.6	448.6	446.8	445.9
177.5°	441.8	442.6	441.1	441.1	441.1	442.6	441.8	442.6	442.6	441.8	441.1
180°	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7



TEST NUMBER: P332029-940

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4
2.5°	1201.0	1201.0	1210.2	1216.0	1223.3	1228.2	1231.5	1234.9	1240.8	1248.6	1257.3
5°	1132.3	1134.7	1148.1	1161.5	1174.2	1185.1	1194.2	1205.1	1218.4	1234.8	1253.0
7.5°	1065.8	1075.1	1088.6	1104.8	1122.7	1138.6	1154.8	1172.7	1191.5	1215.7	1241.2
10°	1023.1	1033.4	1049.7	1070.4	1089.2	1108.0	1128.0	1147.5	1171.1	1199.6	1232.4
12.5°	985.7	995.5	1012.4	1034.9	1052.8	1073.5	1096.4	1121.8	1148.3	1182.7	1219.8
15°	933.9	945.4	966.0	977.0	1004.2	1029.1	1050.3	1086.8	1120.8	1155.9	1199.1
17.5°	891.4	897.9	914.5	934.9	955.2	983.1	1010.9	1041.3	1075.1	1118.2	1172.1
20°	862.3	867.7	885.9	907.1	929.0	954.5	979.4	1009.7	1047.9	1093.4	1151.7
22.5°	840.4	846.3	858.3	880.9	901.3	922.5	947.4	983.5	1024.1	1068.7	1131.8
25°	808.9	812.5	820.4	838.6	856.8	880.5	902.3	936.3	978.2	1030.4	1093.4
27.5°	778.9	782.4	789.0	802.1	819.0	838.2	862.0	890.9	933.4	990.1	1057.0
30°	760.9	761.5	767.6	779.7	794.3	810.1	832.0	864.7	904.7	962.4	1032.8
32.5°	745.4	743.1	747.3	756.4	770.5	786.3	804.2	836.5	875.1	931.8	1004.2
35°	719.1	717.8	716.0	723.9	736.0	748.1	763.9	788.3	832.0	884.8	960.6
37.5°	692.2	689.3	686.1	689.6	699.2	711.8	725.5	747.1	784.7	842.8	915.4
40°	672.3	669.9	668.1	666.9	675.4	687.5	697.9	718.5	753.7	808.9	880.5
42.5°	650.5	649.1	646.8	645.1	652.1	661.3	672.1	690.3	725.5	777.3	845.1
45°	615.3	614.1	612.9	611.6	615.9	624.4	632.9	646.2	676.5	726.9	788.3
47.5°	576.1	574.5	575.0	573.1	577.2	582.9	588.8	603.2	632.3	673.0	717.7
50°	548.0	547.3	547.3	547.3	548.6	555.2	560.7	571.6	598.3	639.0	671.1
52.5°	521.2	518.7	518.7	519.7	521.8	526.1	529.6	541.5	564.8	598.2	627.4
55°	479.4	474.5	473.3	474.5	476.4	480.0	483.7	493.3	513.4	538.2	555.2
57.5°	433.0	430.3	428.7	429.0	430.0	432.9	435.7	446.2	462.0	475.0	485.9
60°	400.5	401.7	396.3	397.4	397.4	399.8	404.1	410.8	424.2	433.3	444.2
62.5°	369.9	368.2	366.7	364.9	364.9	365.9	371.6	376.8	388.3	393.0	401.4
65°	322.2	322.2	318.6	319.8	320.4	316.1	319.1	325.2	332.5	334.4	342.2
67.5°	273.9	272.2	270.2	268.3	268.3	268.0	269.6	272.6	278.0	278.7	284.7
70°	240.9	239.7	239.1	237.3	234.9	237.9	236.0	239.1	242.1	242.7	246.4
72.5°	208.8	207.7	206.5	204.7	203.8	203.4	203.5	207.1	209.1	208.2	212.4
75°	163.3	162.0	160.8	157.7	157.7	156.0	156.6	159.0	161.4	159.6	163.3
77.5°	119.9	116.1	115.9	116.7	114.7	115.0	114.3	114.0	115.0	115.2	118.4
80°	92.2	88.0	89.2	88.6	88.0	87.4	86.1	86.8	87.4	88.0	89.8
82.5°	66.5	66.2	64.9	64.8	64.2	62.6	61.9	63.0	63.6	63.2	64.6
85°	34.0	32.2	33.3	32.7	33.3	32.7	30.9	30.9	32.2	31.6	32.7
87.5°	14.4	14.6	13.6	13.6	12.6	12.5	11.7	11.8	11.8	11.4	12.0
90°	21.4	22.3	19.6	16.9	14.3	11.6	9.8	8.0	5.4	3.6	1.8
92.5°	103.3	136.9	150.6	113.1	74.7	51.5	38.3	30.8	23.9	16.4	11.1
95°	428.1	527.8	469.9	324.0	191.4	115.7	81.0	57.9	42.7	32.9	30.2
97.5°	875.1	818.0	598.9	355.5	206.0	133.7	96.1	73.3	60.2	52.5	51.6
100°	1018.2	842.9	569.6	335.6	203.8	141.5	106.8	85.4	73.0	66.8	65.9
102.5°	1025.4	796.7	526.9	318.4	206.7	150.8	119.0	99.7	87.9	82.4	80.8
105°	971.1	715.6	474.4	306.2	214.5	166.5	138.8	122.0	111.3	105.9	103.3
107.5°	876.0	644.1	441.0	305.3	229.1	186.9	161.3	145.4	134.9	129.7	127.1
110°	816.2	603.5	428.1	308.9	241.2	201.2	176.2	161.1	151.3	146.9	144.2



TEST NUMBER: P332029-940

CATALOG NUMBER: S123DIP-S1000D1025U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	764.2	576.4	421.0	316.0	253.3	216.2	191.9	176.7	167.0	162.6	159.9
115°	701.4	547.4	418.3	327.5	273.2	239.4	215.4	200.3	191.4	186.0	182.4
117.5°	663.4	530.3	419.9	342.9	294.4	261.0	238.7	221.8	213.7	209.2	205.1
120°	643.5	522.5	422.8	354.3	308.0	275.9	253.7	236.7	227.8	223.4	220.7
122.5°	627.1	517.5	427.8	365.0	322.2	290.9	267.2	251.0	241.4	236.9	234.3
125°	606.2	511.0	435.2	381.8	342.7	311.6	287.5	270.5	260.8	255.5	253.7
127.5°	587.6	507.7	443.8	395.7	360.5	330.4	306.4	287.7	277.7	271.1	268.5
130°	577.7	505.6	449.5	405.0	371.1	341.8	317.7	299.1	288.4	280.4	277.7
132.5°	568.4	504.9	453.8	413.6	380.4	351.8	328.4	309.8	296.9	288.2	284.8
135°	556.3	503.8	460.2	424.5	394.3	366.7	342.7	324.0	310.7	300.9	297.3
137.5°	545.8	501.9	464.4	432.7	403.9	377.4	355.2	336.6	322.4	312.8	309.1
140°	539.4	501.1	467.3	437.0	410.4	384.5	362.3	344.5	330.2	321.3	316.9
142.5°	533.7	499.7	469.4	441.3	415.4	390.2	369.3	351.6	338.8	329.1	325.4
145°	526.0	497.6	470.8	445.9	421.9	398.8	378.3	363.2	349.8	341.8	339.1
147.5°	518.5	494.2	470.8	448.8	427.2	406.1	388.6	374.0	362.5	354.6	353.0
150°	513.5	491.3	470.8	449.5	430.8	410.4	394.3	381.8	370.2	363.2	362.3
152.5°	507.9	487.8	468.7	450.9	432.9	415.4	400.0	389.0	378.8	371.7	371.5
155°	499.4	481.5	466.4	451.3	437.0	421.9	409.5	399.7	390.7	385.4	385.4
157.5°	489.7	476.0	463.4	452.2	439.3	427.2	417.6	409.3	401.4	397.2	396.5
160°	483.3	471.7	462.0	452.2	441.5	430.8	421.9	415.6	408.6	405.0	405.0
162.5°	476.9	467.4	459.1	451.5	442.2	432.9	425.4	419.9	414.3	411.4	411.4
165°	468.1	461.1	454.9	449.5	443.3	436.1	429.9	426.3	421.9	420.1	421.0
167.5°	459.9	454.7	450.6	448.1	443.1	437.9	434.0	431.5	428.1	427.2	428.3
170°	454.9	450.4	447.7	445.9	442.4	437.9	436.1	434.4	431.7	430.8	432.6
172.5°	449.9	446.8	445.6	445.2	442.4	438.6	437.6	436.5	434.5	434.4	435.4
175°	444.2	442.4	442.4	443.3	441.5	439.7	438.8	438.8	437.0	437.9	438.8
177.5°	440.4	439.7	440.4	441.8	440.4	439.7	439.7	439.7	439.0	439.7	440.4
180°	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7



TEST NUMBER: P332029-940

CATALOG NUMBER: S123DIP-S1000D1025U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4
2.5°	1260.2	1262.7	1270.9	1276.8	1283.5	1287.4	1291.3	1294.2	1298.1	1299.0	1313.1
5°	1265.8	1277.9	1299.1	1314.9	1334.4	1355.6	1370.1	1376.8	1394.5	1409.0	1438.2
7.5°	1264.2	1290.0	1322.1	1355.3	1391.1	1424.1	1452.7	1486.7	1510.8	1547.1	1582.9
10°	1262.8	1297.4	1338.6	1381.1	1430.8	1476.9	1518.2	1564.3	1602.6	1653.0	1696.0
12.5°	1258.4	1300.3	1357.5	1407.7	1468.2	1531.8	1593.0	1652.2	1686.0	1770.0	1809.6
15°	1247.6	1297.4	1369.0	1445.4	1528.6	1603.7	1681.4	1743.4	1843.4	1916.9	1963.6
17.5°	1227.0	1296.6	1381.5	1473.8	1574.9	1674.0	1762.0	1856.0	1962.1	2051.0	2145.6
20°	1217.3	1293.7	1388.4	1490.3	1595.3	1707.5	1807.7	1920.6	2036.4	2123.8	2245.1
22.5°	1199.3	1285.9	1387.9	1501.5	1613.7	1729.8	1847.0	1960.8	2094.7	2215.1	2330.6
25°	1169.9	1267.0	1372.6	1499.4	1631.1	1747.6	1887.8	2038.9	2178.4	2333.2	2448.5
27.5°	1139.1	1242.7	1348.5	1466.5	1608.1	1746.4	1922.7	2093.5	2264.1	2397.7	2483.1
30°	1115.3	1216.0	1325.3	1444.2	1584.4	1748.8	1946.0	2132.3	2298.6	2413.2	2461.2
32.5°	1089.6	1191.8	1288.3	1413.1	1562.5	1747.3	1960.6	2155.1	2300.5	2376.9	2367.5
35°	1049.2	1134.7	1228.8	1348.9	1524.9	1736.7	1969.1	2157.1	2246.4	2230.0	2106.2
37.5°	990.9	1062.8	1155.5	1287.0	1481.2	1714.2	1952.0	2093.2	2087.4	1954.0	1774.7
40°	954.5	1015.7	1105.0	1243.3	1447.2	1699.7	1925.4	2017.0	1939.4	1753.0	1538.2
42.5°	907.0	963.3	1052.6	1194.8	1409.9	1670.0	1874.4	1900.9	1749.0	1534.6	1337.7
45°	833.1	882.9	975.1	1122.0	1353.8	1605.6	1750.0	1685.1	1480.6	1259.1	1109.2
47.5°	753.9	805.6	894.3	1045.2	1272.7	1508.6	1577.4	1439.3	1229.4	1049.7	912.1
50°	703.9	753.7	840.4	992.7	1217.8	1429.1	1457.5	1279.2	1086.2	928.4	815.6
52.5°	653.4	700.3	785.6	938.3	1153.8	1336.8	1319.2	1137.4	959.9	825.5	736.9
55°	578.3	622.6	703.9	847.1	1043.1	1188.1	1124.4	950.8	804.1	699.6	632.3
57.5°	511.0	553.5	623.7	753.0	923.5	1023.1	942.0	795.8	679.0	598.7	548.4
60°	465.4	503.0	569.8	689.9	838.0	913.8	833.7	704.5	606.2	541.9	497.0
62.5°	422.2	455.0	516.8	625.9	754.5	818.2	737.2	627.8	544.0	487.1	448.9
65°	356.8	386.6	441.1	526.1	631.7	674.1	604.4	515.8	450.8	408.4	382.9
67.5°	297.1	322.4	369.5	436.4	514.1	545.0	491.9	423.3	374.4	340.3	320.0
70°	257.3	279.1	316.1	373.8	444.2	467.9	418.1	361.7	325.8	298.5	279.7
72.5°	223.8	239.8	273.4	318.0	376.7	395.5	360.8	311.2	277.8	257.3	242.4
75°	170.5	183.9	205.7	241.5	282.1	293.1	267.0	236.0	213.6	199.0	187.5
77.5°	123.0	132.8	148.6	170.7	198.8	208.7	192.1	171.5	155.1	145.3	138.8
80°	92.8	100.8	114.0	132.2	149.3	154.7	145.0	129.2	117.7	112.3	106.8
82.5°	68.6	73.0	81.1	93.5	105.1	111.6	103.3	93.8	87.7	82.7	80.6
85°	34.6	37.0	40.7	45.5	52.8	55.2	52.2	49.8	46.1	43.1	43.1
87.5°	13.4	13.7	15.7	17.0	19.3	21.3	21.3	20.9	21.0	20.3	20.0
90°	3.6	5.4	8.0	9.8	11.6	14.3	16.9	19.6	22.3	21.4	22.3
92.5°	16.4	23.9	30.8	38.3	51.5	74.7	113.1	150.6	136.9	103.3	74.9
95°	32.9	42.7	57.9	81.0	115.7	191.4	324.0	469.9	527.8	428.1	320.4
97.5°	52.5	60.2	73.3	96.1	133.7	206.0	355.5	598.9	818.0	875.1	798.8
100°	66.8	73.0	85.4	106.8	141.5	203.8	335.6	569.6	842.9	1018.2	1049.5
102.5°	82.4	87.9	99.7	119.0	150.8	206.7	318.4	526.9	796.7	1025.4	1132.7
105°	105.9	111.3	122.0	138.8	166.5	214.5	306.2	474.4	715.6	971.1	1157.1
107.5°	129.7	134.9	145.4	161.3	186.9	229.1	305.3	441.0	644.1	876.0	1087.0
110°	146.9	151.3	161.1	176.2	201.2	241.2	308.9	428.1	603.5	816.2	1020.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	162.6	167.0	176.7	191.9	216.2	253.3	316.0	421.0	576.4	764.2	953.8
115°	186.0	191.4	200.3	215.4	239.4	273.2	327.5	418.3	547.4	701.4	866.0
117.5°	209.2	213.7	221.8	238.7	261.0	294.4	342.9	419.9	530.3	663.4	802.5
120°	223.4	227.8	236.7	253.7	275.9	308.0	354.3	422.8	522.5	643.5	769.0
122.5°	236.9	241.4	251.0	267.2	290.9	322.2	365.0	427.8	517.5	627.1	742.7
125°	255.5	260.8	270.5	287.5	311.6	342.7	381.8	435.2	511.0	606.2	707.7
127.5°	271.1	277.7	287.7	306.4	330.4	360.5	395.7	443.8	507.7	587.6	677.0
130°	280.4	288.4	299.1	317.7	341.8	371.1	405.0	449.5	505.6	577.7	657.8
132.5°	288.2	296.9	309.8	328.4	351.8	380.4	413.6	453.8	504.9	568.4	640.0
135°	300.9	310.7	324.0	342.7	366.7	394.3	424.5	460.2	503.8	556.3	615.9
137.5°	312.8	322.4	336.6	355.2	377.4	403.9	432.7	464.4	501.9	545.8	594.1
140°	321.3	330.2	344.5	362.3	384.5	410.4	437.0	467.3	501.1	539.4	581.2
142.5°	329.1	338.8	351.6	369.3	390.2	415.4	441.3	469.4	499.7	533.7	569.1
145°	341.8	349.8	363.2	378.3	398.8	421.9	445.9	470.8	497.6	526.0	554.6
147.5°	354.6	362.5	374.0	388.6	406.1	427.2	448.8	470.8	494.2	518.5	542.6
150°	363.2	370.2	381.8	394.3	410.4	430.8	449.5	470.8	491.3	513.5	534.0
152.5°	371.7	378.8	389.0	400.0	415.4	432.9	450.9	468.7	487.8	507.9	526.2
155°	385.4	390.7	399.7	409.5	421.9	437.0	451.3	466.4	481.5	499.4	514.4
157.5°	397.2	401.4	409.3	417.6	427.2	439.3	452.2	463.4	476.0	489.7	502.0
160°	405.0	408.6	415.6	421.9	430.8	441.5	452.2	462.0	471.7	483.3	494.9
162.5°	411.4	414.3	419.9	425.4	432.9	442.2	451.5	459.1	467.4	476.9	486.3
165°	420.1	421.9	426.3	429.9	436.1	443.3	449.5	454.9	461.1	468.1	475.3
167.5°	427.2	428.1	431.5	434.0	437.9	443.1	448.1	450.6	454.7	459.9	465.7
170°	430.8	431.7	434.4	436.1	437.9	442.4	445.9	447.7	450.4	454.9	459.3
172.5°	434.4	434.5	436.5	437.6	438.6	442.4	445.2	445.6	446.8	449.9	453.6
175°	437.9	437.0	438.8	438.8	439.7	441.5	443.3	442.4	442.4	444.2	445.9
177.5°	439.7	439.0	439.7	439.7	439.7	440.4	441.8	440.4	439.7	440.4	441.1
180°	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4
2.5°	1317.9	1318.5	1323.8	1327.7	1325.7	1328.2	1329.1
5°	1439.9	1461.8	1473.3	1481.8	1482.4	1483.0	1487.9
7.5°	1612.8	1636.3	1653.4	1679.4	1687.1	1696.0	1693.4
10°	1739.1	1773.7	1803.4	1819.2	1836.2	1861.1	1841.0
12.5°	1857.1	1918.3	1963.6	1988.2	2004.1	2009.1	1999.3
15°	2051.6	2131.7	2174.8	2173.5	2228.2	2251.8	2214.8
17.5°	2230.0	2303.9	2363.1	2393.4	2439.0	2449.1	2444.4
20°	2339.2	2419.9	2466.0	2518.2	2541.9	2563.1	2566.8
22.5°	2433.4	2505.9	2555.4	2598.8	2618.6	2628.7	2634.7
25°	2530.3	2587.4	2617.2	2632.3	2637.8	2636.5	2628.7
27.5°	2523.7	2528.1	2495.3	2463.2	2434.4	2402.0	2390.8
30°	2458.2	2407.2	2316.1	2264.6	2188.7	2128.7	2152.9
32.5°	2285.8	2184.3	2082.1	1969.4	1876.1	1849.5	1822.8
35°	1950.9	1772.5	1668.1	1546.8	1498.2	1449.7	1416.3
37.5°	1578.3	1440.3	1316.5	1237.2	1188.5	1157.8	1141.3
40°	1364.7	1240.3	1138.4	1074.1	1037.1	1002.5	997.6
42.5°	1194.3	1078.6	1001.9	950.7	915.2	900.4	889.8
45°	978.2	897.4	845.9	809.5	785.8	776.7	764.6
47.5°	828.0	770.9	732.2	707.4	689.6	682.8	681.8
50°	744.0	696.6	668.1	648.6	634.7	632.3	622.6
52.5°	680.8	639.8	617.6	600.7	590.6	583.7	580.9
55°	591.0	563.7	543.7	534.0	526.1	519.4	519.4
57.5°	517.1	494.3	481.1	472.8	470.4	465.7	462.6
60°	471.4	452.1	441.8	434.4	429.6	430.3	424.7
62.5°	426.9	414.2	404.4	397.1	391.3	391.4	391.7
65°	363.5	353.7	346.5	344.0	340.5	336.2	337.4
67.5°	308.0	298.9	293.2	289.1	287.8	285.5	289.1
70°	268.2	261.5	257.3	253.6	252.4	253.1	256.1
72.5°	231.8	227.0	224.3	222.6	219.9	220.0	222.1
75°	182.0	178.4	175.9	174.2	173.5	173.5	173.5
77.5°	133.8	132.9	131.8	129.1	129.2	130.0	130.1
80°	105.6	103.8	103.2	101.9	100.1	98.9	101.9
82.5°	78.9	77.0	76.4	76.2	73.4	73.2	75.7
85°	42.4	40.7	41.3	40.7	40.7	40.0	40.0
87.5°	19.7	19.4	19.3	19.5	19.3	18.9	19.7
90°	23.2	24.1	25.8	24.9	25.8	26.7	25.8
92.5°	59.5	52.5	47.9	46.3	43.6	44.5	42.9
95°	217.2	170.0	137.9	121.1	113.1	106.8	103.3
97.5°	639.8	525.0	418.5	352.8	312.8	288.7	281.1
100°	977.3	873.2	746.8	656.9	591.9	557.2	558.1
102.5°	1130.4	1069.7	989.6	919.6	868.2	839.2	818.7
105°	1246.2	1263.0	1239.9	1198.9	1165.1	1136.7	1132.2
107.5°	1231.5	1309.5	1341.2	1341.9	1330.5	1320.9	1312.7
110°	1183.8	1295.9	1358.3	1383.2	1390.4	1388.6	1386.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1121.1	1246.8	1327.0	1372.5	1394.5	1401.3	1401.7
115°	1020.9	1151.7	1248.8	1315.5	1354.7	1372.5	1377.0
117.5°	936.2	1053.6	1152.1	1221.7	1266.6	1292.3	1298.2
120°	889.2	996.0	1085.9	1156.2	1206.0	1227.4	1232.8
122.5°	851.5	950.5	1033.9	1096.4	1141.3	1164.8	1171.5
125°	804.7	890.1	961.3	1018.2	1057.4	1079.7	1085.9
127.5°	763.5	840.6	905.4	956.1	989.6	1009.7	1015.4
130°	737.9	809.9	870.5	917.7	949.8	968.4	975.5
132.5°	713.6	780.8	838.5	882.8	914.8	931.4	936.4
135°	679.1	737.0	787.7	831.3	858.0	874.1	880.3
137.5°	645.9	695.7	739.7	776.3	803.4	816.9	821.0
140°	626.6	669.3	707.7	741.5	766.3	780.6	779.7
142.5°	608.1	645.2	678.4	707.3	729.3	742.2	741.3
145°	583.9	612.3	638.2	660.4	679.1	686.3	688.0
147.5°	565.9	588.9	607.3	624.1	636.8	643.5	644.3
150°	554.6	573.2	590.1	603.5	613.2	618.6	618.6
152.5°	543.9	560.4	574.4	585.0	594.1	597.3	597.3
155°	528.7	542.1	552.8	560.8	567.8	569.6	570.5
157.5°	513.9	524.2	532.6	539.6	544.9	546.4	546.2
160°	504.7	513.5	519.8	526.0	531.4	531.4	530.5
162.5°	494.7	502.9	508.5	512.6	517.1	517.1	516.2
165°	480.6	486.9	491.3	494.9	498.5	497.6	497.6
167.5°	469.8	473.3	476.5	478.1	480.6	479.7	479.7
170°	462.0	465.5	467.3	468.1	469.9	469.0	469.0
172.5°	455.6	458.4	459.5	459.7	461.5	459.9	459.1
175°	446.8	448.6	448.6	448.6	449.5	448.6	447.7
177.5°	441.8	442.6	442.6	441.8	442.6	441.1	441.1
180°	439.7	439.7	439.7	439.7	439.7	439.7	439.7

(END OF REPORT)