

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: P332349-930

Luminaire Tested: **S123RDIP-S1000D1025U930-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332349-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIP-S1000D1025U930-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1025 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6100.6 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

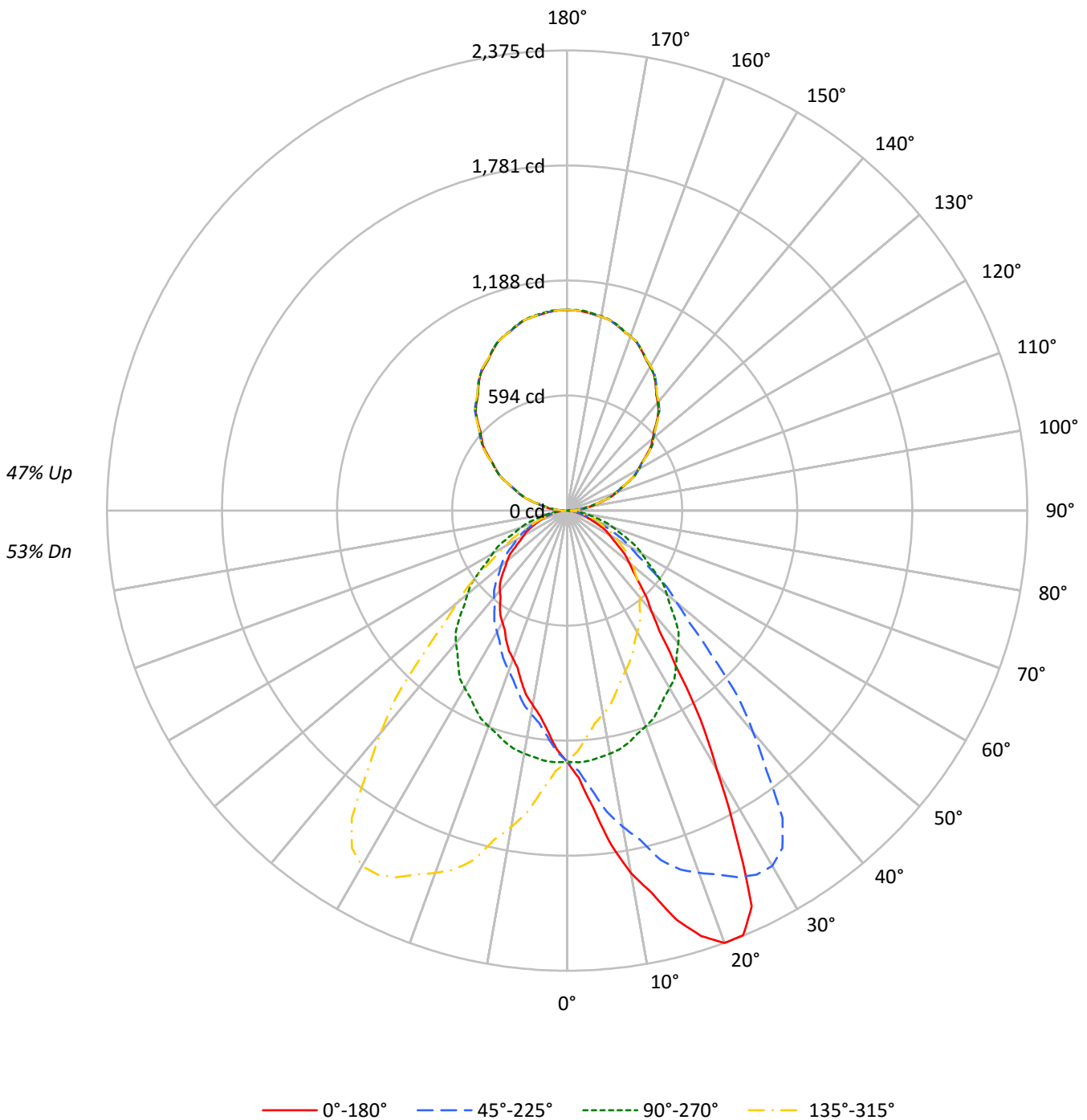
Input Watts (W): 60.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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	71	71	71	59	59	59	53
1	99	95	91	88	92	88	85	82	75	73	71	64	62	61	53	52	51	46
2	91	84	78	73	84	78	73	68	67	63	60	57	54	52	47	45	44	39
3	83	74	67	61	77	69	63	58	59	55	51	51	47	44	43	40	38	34
4	76	66	58	53	71	62	55	50	53	48	44	46	42	39	38	36	33	30
5	70	59	51	45	65	55	48	43	48	43	38	41	37	34	35	32	29	26
6	65	53	45	40	60	50	43	38	43	38	34	37	33	30	32	29	26	23
7	60	48	40	35	56	45	38	33	40	34	30	34	30	27	29	26	23	21
8	56	44	36	31	52	41	34	30	36	31	27	31	27	24	27	24	21	19
9	52	40	33	28	48	38	31	27	33	28	24	29	25	22	25	22	19	17
10	49	37	30	25	45	35	28	24	31	25	22	27	23	20	23	20	17	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13951	13951	13951	13951
5°	16630	14011	12337	14011
10°	20764	13930	11146	13930
15°	24373	13788	10165	13788
20°	27202	13575	9330	13575
25°	26766	13351	8817	13351
30°	19240	13144	8289	13144
35°	12846	12875	7947	12875
40°	9465	12552	7593	12552
45°	7939	11985	7247	11985
50°	7005	11241	6764	11241
55°	6142	10393	6101	10393
60°	5470	9580	5591	9580
65°	4806	8706	5201	8706
70°	3770	7928	4749	7928
75°	3323	6924	4338	6924
80°	2889	5883	4265	5883
85°	2322	4730	4520	4730



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.5	2.1
10°-20°	398.2	6.5
20°-30°	625.6	10.3
30°-40°	652.7	10.7
40°-50°	558.6	9.2
50°-60°	425.7	7.0
60°-70°	272.9	4.5
70°-80°	131.3	2.2
80°-90°	37.8	0.6
90°-100°	67.5	1.1
100°-110°	202.0	3.3
110°-120°	343.6	5.6
120°-130°	451.9	7.4
130°-140°	508.0	8.3
140°-150°	499.3	8.2
150°-160°	420.4	6.9
160°-170°	279.8	4.6
170°-180°	98.0	1.6
0°-30°	1151.2	18.9
0°-40°	1803.9	29.6
0°-60°	2788.2	45.7
0°-90°	3230.1	52.9
90°-120°	613.1	10.0
90°-150°	2072.3	34.0
90°-180°	2870.0	47.0
0°-180°	6100.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1296	1296	1296	1296	1296	
5°	1539	1297	1142	1297	1539	159
15°	2187	1237	912	1237	2187	620
25°	2254	1124	742	1124	2254	969
35°	978	980	605	980	978	641
45°	522	787	476	787	522	410
55°	327	554	325	554	327	296
65°	189	342	204	342	189	186
75°	80	166	104	166	80	86
85°	19	38	37	38	19	22
90°	24	1	24	1	24	12
95°	64	48	64	48	64	65
105°	194	183	194	183	194	206
115°	347	346	347	346	347	343
125°	500	506	500	506	500	448
135°	656	657	656	657	656	504
145°	797	797	797	797	797	497
155°	911	912	911	912	911	419
165°	990	994	990	994	990	279
175°	1030	1034	1030	1034	1030	98
180°	1036	1036	1036	1036	1036	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1
2.5°	1380.5	1382.2	1376.5	1375.6	1368.9	1367.1	1367.1	1357.8	1352.0	1344.5	1340.0
5°	1539.1	1548.0	1543.5	1533.6	1516.9	1513.0	1502.5	1485.9	1467.0	1443.7	1432.6
7.5°	1737.3	1749.4	1744.7	1729.3	1711.9	1697.8	1668.1	1640.5	1601.7	1567.7	1538.7
10°	1899.7	1887.0	1877.0	1862.1	1845.9	1819.8	1788.8	1746.0	1696.7	1657.8	1614.6
12.5°	2021.4	2019.3	2006.6	1991.2	1968.5	1943.7	1905.5	1853.5	1796.1	1740.0	1690.4
15°	2187.2	2190.5	2182.1	2166.1	2133.9	2090.1	2032.4	2010.8	1928.6	1867.6	1806.5
17.5°	2301.9	2301.3	2300.1	2277.9	2245.0	2213.8	2160.3	2103.4	2029.0	1943.0	1860.8
20°	2374.7	2369.2	2370.2	2345.3	2320.9	2284.8	2232.7	2150.0	2089.0	1989.7	1904.8
22.5°	2372.9	2371.8	2376.0	2367.5	2349.8	2322.1	2281.0	2211.3	2133.3	2033.1	1937.6
25°	2253.7	2249.3	2275.4	2282.6	2310.9	2315.9	2303.7	2265.4	2191.6	2088.4	1970.3
27.5°	1886.2	1883.7	1932.2	1992.8	2069.6	2129.2	2187.0	2214.8	2191.6	2117.7	1999.3
30°	1548.0	1600.2	1624.6	1712.2	1809.9	1926.4	2028.5	2125.6	2149.5	2117.3	2020.1
32.5°	1285.2	1330.7	1351.1	1426.4	1517.4	1653.8	1807.0	1944.5	2041.6	2066.2	2007.8
35°	977.6	978.2	1024.7	1058.1	1142.4	1282.8	1431.5	1615.7	1798.8	1937.5	1951.9
37.5°	780.1	782.9	811.1	844.2	907.5	981.7	1112.6	1265.8	1477.3	1690.3	1815.1
40°	673.6	678.6	699.7	732.4	777.9	833.9	936.0	1080.3	1256.7	1493.6	1687.3
42.5°	605.2	613.3	624.2	649.4	677.6	730.0	812.6	924.1	1084.5	1308.6	1531.9
45°	521.5	525.9	534.3	545.9	571.4	608.1	663.6	738.5	871.6	1052.0	1275.5
47.5°	460.1	457.7	466.5	476.0	492.9	517.9	555.1	616.2	711.2	855.9	1045.5
50°	418.3	417.8	423.9	431.1	447.2	465.5	496.0	542.1	617.5	737.4	911.0
52.5°	379.3	381.4	385.7	394.7	406.3	421.1	448.5	481.7	546.5	650.0	794.8
55°	327.3	329.1	335.1	340.1	348.5	363.4	380.6	408.4	452.7	524.9	644.2
57.5°	283.4	282.7	288.5	289.8	299.1	311.4	324.7	346.3	378.4	432.0	512.3
60°	254.1	252.4	257.5	261.3	266.4	276.3	287.4	308.5	334.0	373.4	442.2
62.5°	227.5	226.7	230.4	234.2	238.4	247.4	256.8	273.0	293.2	326.4	381.0
65°	188.7	190.3	192.0	193.6	195.8	201.4	210.3	221.4	235.2	258.5	297.9
67.5°	148.2	149.9	150.5	153.9	158.7	162.2	167.5	177.4	187.1	206.8	229.2
70°	119.8	119.3	119.8	121.5	127.6	133.7	141.0	148.1	154.3	168.1	186.9
72.5°	103.0	102.0	103.5	103.8	106.7	108.4	113.0	119.8	127.6	137.1	150.6
75°	79.9	79.9	79.9	79.9	82.1	83.2	84.9	86.6	89.4	93.8	103.8
77.5°	59.0	59.1	59.9	60.5	60.9	61.6	62.6	64.2	65.2	67.6	71.9
80°	46.6	47.1	46.6	47.1	47.1	48.3	48.8	50.5	51.0	53.8	55.5
82.5°	35.1	34.7	35.1	35.6	35.6	36.8	36.9	38.1	38.2	39.6	41.3
85°	18.8	17.8	18.8	18.3	19.4	18.3	18.8	20.0	20.0	20.5	22.7
87.5°	9.3	10.1	9.2	9.5	9.5	9.8	9.7	9.5	10.3	9.7	9.6
90°	24.4	24.1	23.7	23.3	23.0	22.4	21.7	21.0	20.2	19.6	17.2
92.5°	32.9	33.1	33.3	33.5	33.8	33.6	33.0	32.4	31.8	31.2	29.9
95°	63.5	63.5	63.5	63.5	63.5	63.1	62.4	61.6	61.0	60.3	58.8
97.5°	97.7	97.8	97.8	97.9	97.9	97.6	96.8	95.9	95.1	94.2	93.2
100°	123.7	123.4	122.9	122.6	122.3	121.8	121.2	120.7	120.2	119.6	118.7
102.5°	150.4	150.5	150.5	150.6	150.7	150.4	149.9	149.4	148.8	148.3	147.1
105°	193.7	193.3	193.0	192.6	192.2	192.1	192.1	192.1	192.1	192.1	190.5
107.5°	238.8	239.0	239.2	239.5	239.6	239.5	238.9	238.3	237.7	237.2	236.5
110°	269.4	269.8	270.1	270.4	270.8	270.7	269.9	269.2	268.5	267.7	267.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	301.9	302.0	302.1	302.1	302.2	301.8	300.9	300.1	299.2	298.3	298.3
115°	346.7	346.9	347.1	347.2	347.4	347.4	347.2	347.1	346.9	346.7	347.1
117.5°	392.1	392.6	393.1	393.6	394.1	394.4	394.4	394.4	394.5	394.5	395.0
120°	424.0	424.4	424.8	425.1	425.4	425.7	425.9	426.1	426.2	426.5	427.4
122.5°	454.6	455.1	455.6	456.2	456.6	457.1	457.6	458.0	458.5	459.0	459.5
125°	500.5	501.2	502.0	502.7	503.4	504.1	504.8	505.6	506.3	507.0	507.4
127.5°	546.3	547.1	547.9	548.8	549.6	550.5	551.5	552.5	553.5	554.6	555.0
130°	576.2	577.5	578.7	580.0	581.2	582.3	582.9	583.7	584.4	585.1	585.7
132.5°	607.5	608.5	609.4	610.4	611.4	612.3	613.2	614.0	614.9	615.7	616.1
135°	656.0	656.3	656.6	657.0	657.4	657.9	658.7	659.4	660.1	660.8	661.0
137.5°	698.8	699.4	700.1	700.8	701.5	702.2	703.0	703.8	704.5	705.2	704.8
140°	726.8	728.1	729.3	730.6	731.8	732.5	732.7	732.9	733.1	733.3	733.1
142.5°	755.4	756.4	757.3	758.3	759.3	759.9	760.1	760.3	760.4	760.6	760.3
145°	796.7	797.4	798.2	798.9	799.6	800.1	800.3	800.5	800.6	800.8	800.3
147.5°	833.6	834.6	835.7	836.8	837.9	838.5	838.5	838.5	838.5	838.5	837.9
150°	857.0	858.0	859.2	860.2	861.3	861.9	861.9	861.9	861.9	861.9	861.5
152.5°	879.8	880.7	881.7	882.6	883.5	883.9	883.5	883.3	883.0	882.7	882.5
155°	910.7	911.9	913.2	914.5	915.7	916.0	915.3	914.6	913.9	913.1	913.0
157.5°	938.8	939.9	940.9	941.9	942.9	943.1	942.2	941.5	940.8	940.0	939.9
160°	957.1	957.8	958.5	959.3	959.9	959.9	959.0	958.1	957.2	956.3	956.3
162.5°	970.8	971.9	973.1	974.2	975.3	975.5	974.6	973.7	972.8	971.9	971.8
165°	990.4	991.7	993.0	994.3	995.5	995.6	994.5	993.4	992.3	991.2	991.2
167.5°	1007.2	1008.4	1009.4	1010.6	1011.7	1011.7	1010.6	1009.4	1008.4	1007.2	1007.1
170°	1015.7	1016.9	1018.2	1019.5	1020.8	1020.8	1019.5	1018.2	1016.9	1015.7	1015.7
172.5°	1022.1	1023.4	1024.7	1026.0	1027.3	1027.3	1026.2	1025.1	1023.9	1022.8	1022.8
175°	1029.5	1030.8	1032.0	1033.3	1034.5	1034.7	1033.6	1032.5	1031.4	1030.3	1030.3
177.5°	1033.4	1034.5	1035.4	1036.5	1037.5	1037.5	1036.7	1035.8	1034.9	1034.0	1034.0
180°	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1
2.5°	1338.2	1336.9	1330.7	1323.6	1314.3	1308.1	1303.2	1300.6	1292.6	1282.8	1276.1
5°	1420.9	1404.3	1386.6	1364.9	1344.9	1324.4	1311.7	1296.7	1278.3	1257.8	1243.4
7.5°	1509.5	1476.8	1441.7	1405.4	1369.5	1337.4	1309.0	1284.7	1255.5	1226.0	1205.4
10°	1577.4	1529.7	1480.3	1429.8	1383.7	1340.5	1307.2	1274.5	1239.5	1205.7	1180.1
12.5°	1639.1	1576.3	1519.4	1457.3	1398.4	1346.7	1298.8	1260.3	1218.2	1182.1	1153.1
15°	1717.2	1652.9	1584.0	1489.7	1411.5	1346.1	1287.8	1237.3	1186.3	1141.8	1113.5
17.5°	1790.2	1693.4	1600.9	1522.2	1420.6	1338.8	1267.7	1207.3	1151.3	1104.2	1069.4
20°	1820.4	1726.6	1626.2	1525.8	1426.0	1334.4	1251.7	1185.1	1126.9	1073.6	1041.5
22.5°	1838.6	1732.4	1626.7	1518.7	1412.6	1317.5	1235.7	1162.5	1099.3	1048.7	1009.0
25°	1859.8	1733.3	1616.8	1510.3	1402.1	1298.9	1201.8	1124.1	1055.9	1002.0	959.9
27.5°	1873.8	1725.0	1587.3	1468.8	1359.1	1256.4	1167.3	1085.0	1015.8	958.9	913.6
30°	1876.5	1718.3	1564.6	1436.5	1324.9	1230.6	1136.3	1057.5	984.3	923.8	881.7
32.5°	1880.0	1701.9	1534.0	1397.8	1283.7	1190.3	1104.8	1029.6	954.6	895.0	851.9
35°	1865.4	1692.8	1487.5	1331.1	1216.8	1126.3	1049.2	979.8	906.0	848.3	804.5
37.5°	1802.3	1656.8	1439.3	1255.8	1136.3	1052.6	989.7	929.3	861.5	799.3	758.0
40°	1738.9	1621.2	1402.1	1210.1	1085.2	999.2	942.6	893.3	827.9	769.6	725.2
42.5°	1644.3	1572.9	1366.6	1162.1	1027.5	944.7	896.9	850.7	793.2	734.0	692.4
45°	1470.9	1480.3	1293.9	1085.8	947.6	864.5	819.5	787.3	736.3	687.5	644.7
47.5°	1253.4	1341.6	1208.5	1004.4	863.4	785.3	746.0	718.0	683.5	635.6	596.6
50°	1111.3	1237.3	1140.2	949.9	810.7	733.0	694.1	671.3	641.4	603.6	566.5
52.5°	980.4	1115.7	1057.6	889.1	753.3	682.3	644.4	625.7	601.9	566.4	532.7
55°	799.5	936.5	923.2	797.3	667.5	603.6	574.8	553.8	537.6	511.0	484.4
57.5°	646.7	776.7	783.5	695.2	591.8	528.7	503.9	488.0	477.5	457.4	432.8
60°	550.4	669.7	693.0	626.4	537.6	482.2	457.7	445.0	436.7	420.5	401.7
62.5°	470.5	572.0	598.4	550.5	485.7	433.7	414.7	402.4	396.7	382.9	366.2
65°	360.1	444.4	469.9	443.3	409.4	367.9	352.3	341.8	336.8	329.1	316.8
67.5°	270.8	332.2	360.2	341.4	329.2	303.0	293.1	287.4	283.0	277.6	267.4
70°	217.5	263.0	291.9	286.8	276.9	263.0	255.8	251.9	247.4	243.0	234.2
72.5°	174.9	206.2	233.3	235.8	227.6	224.9	218.5	216.9	214.2	208.9	204.0
75°	115.9	137.6	156.5	163.7	167.0	169.7	167.0	166.5	165.9	161.4	158.7
77.5°	76.0	87.6	99.5	111.9	117.1	120.8	121.7	123.8	122.3	119.9	118.6
80°	58.3	61.1	69.4	79.9	88.2	91.6	93.8	94.9	94.3	93.8	91.6
82.5°	42.3	44.6	48.5	55.9	62.9	68.5	69.8	69.5	70.8	71.1	69.4
85°	22.7	23.3	24.4	25.5	29.4	35.5	37.2	38.3	39.4	39.4	36.0
87.5°	10.0	9.1	9.5	9.1	10.1	10.2	12.5	14.3	15.2	13.8	14.1
90°	14.8	12.5	10.1	8.1	6.3	4.4	2.6	0.8	2.6	4.4	6.3
92.5°	28.5	27.2	25.9	24.6	23.4	22.2	21.0	19.7	21.0	22.2	23.4
95°	57.3	55.8	54.5	53.1	51.9	50.5	49.2	48.0	49.2	50.5	51.9
97.5°	92.1	91.1	90.0	89.0	88.1	87.2	86.3	85.3	86.3	87.2	88.1
100°	117.8	116.9	116.0	115.0	113.9	112.8	111.8	110.7	111.8	112.8	113.9
102.5°	145.9	144.7	143.5	142.6	141.9	141.3	140.6	140.0	140.6	141.3	141.9
105°	188.8	187.2	185.6	184.6	184.2	183.8	183.4	183.1	183.4	183.8	184.2
107.5°	235.9	235.2	234.6	234.2	233.9	233.7	233.5	233.3	233.5	233.7	233.9
110°	267.0	266.7	266.3	266.0	265.5	265.2	264.9	264.5	264.9	265.2	265.5



TEST NUMBER: P332349-930

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	298.2	298.2	298.1	297.9	297.7	297.5	297.3	297.0	297.3	297.5	297.7
115°	347.4	347.8	348.1	348.1	347.5	347.0	346.4	345.8	346.4	347.0	347.5
117.5°	395.5	396.0	396.4	396.5	396.2	395.7	395.4	395.0	395.4	395.7	396.2
120°	428.3	429.2	430.1	430.0	428.9	427.8	426.7	425.7	426.7	427.8	428.9
122.5°	459.9	460.4	460.9	460.7	459.9	459.1	458.4	457.5	458.4	459.1	459.9
125°	507.8	508.1	508.5	508.3	507.8	507.3	506.8	506.2	506.8	507.3	507.8
127.5°	555.4	555.7	556.1	555.8	554.6	553.4	552.3	551.1	552.3	553.4	554.6
130°	586.2	586.8	587.3	586.9	585.4	584.0	582.5	581.1	582.5	584.0	585.4
132.5°	616.5	616.9	617.3	616.9	615.4	613.9	612.5	611.1	612.5	613.9	615.4
135°	661.2	661.4	661.5	661.1	660.0	658.9	657.9	656.8	657.9	658.9	660.0
137.5°	704.3	703.8	703.4	702.7	701.8	700.9	700.0	699.1	700.0	700.9	701.8
140°	732.9	732.7	732.5	732.0	731.1	730.2	729.3	728.4	729.3	730.2	731.1
142.5°	759.9	759.6	759.3	758.7	757.8	756.9	755.9	755.0	755.9	756.9	757.8
145°	799.7	799.2	798.7	798.2	797.9	797.4	797.1	796.7	797.1	797.4	797.9
147.5°	837.4	836.9	836.4	835.8	835.2	834.5	833.9	833.2	833.9	834.5	835.2
150°	861.1	860.8	860.4	860.1	859.7	859.3	859.0	858.6	859.0	859.3	859.7
152.5°	882.2	882.1	881.8	881.4	880.9	880.4	880.0	879.5	880.0	880.4	880.9
155°	912.7	912.6	912.4	912.3	912.3	912.3	912.3	912.3	912.3	912.3	912.3
157.5°	939.7	939.6	939.4	939.5	939.6	939.9	940.1	940.3	940.1	939.9	939.6
160°	956.3	956.3	956.3	956.4	956.8	957.2	957.5	957.9	957.5	957.2	956.8
162.5°	971.6	971.4	971.3	971.5	972.0	972.5	973.0	973.5	973.0	972.5	972.0
165°	991.2	991.2	991.2	991.6	992.1	992.6	993.1	993.7	993.1	992.6	992.1
167.5°	1006.9	1006.8	1006.7	1006.9	1007.6	1008.4	1009.1	1009.8	1009.1	1008.4	1007.6
170°	1015.7	1015.7	1015.7	1016.0	1016.8	1017.5	1018.2	1019.0	1018.2	1017.5	1016.8
172.5°	1022.8	1022.8	1022.8	1023.2	1023.9	1024.7	1025.4	1026.1	1025.4	1024.7	1023.9
175°	1030.3	1030.3	1030.3	1030.7	1031.4	1032.1	1032.8	1033.6	1032.8	1032.1	1031.4
177.5°	1034.0	1034.0	1034.0	1034.4	1034.9	1035.5	1036.1	1036.7	1036.1	1035.5	1034.9
180°	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0



TEST NUMBER: P332349-930

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1
2.5°	1273.9	1268.1	1264.1	1255.2	1249.5	1243.2	1237.1	1241.0	1240.6	1240.2	1240.2
5°	1231.2	1218.4	1206.8	1191.8	1182.3	1170.7	1161.8	1160.7	1162.9	1155.2	1150.7
7.5°	1188.8	1171.3	1154.9	1138.3	1120.8	1106.8	1098.0	1093.9	1088.3	1083.5	1078.5
10°	1159.0	1138.6	1122.4	1101.9	1083.0	1066.4	1055.9	1048.6	1044.7	1040.9	1033.6
12.5°	1128.5	1108.3	1087.9	1064.6	1046.7	1027.4	1019.5	1011.4	1004.0	999.6	989.7
15°	1083.6	1057.5	1035.9	1011.5	991.5	972.7	961.6	945.4	943.2	937.7	927.7
17.5°	1038.7	1010.3	980.5	962.5	939.9	920.2	903.4	898.0	882.1	876.1	867.4
20°	1003.1	977.1	954.3	930.5	897.7	879.4	866.1	858.9	846.1	838.4	832.8
22.5°	972.5	946.0	919.7	891.9	864.9	844.3	834.6	823.4	816.4	805.5	799.5
25°	928.8	899.9	868.3	838.4	819.0	803.4	787.9	777.9	767.9	762.9	751.8
27.5°	878.0	847.8	818.2	795.5	771.7	756.4	742.2	733.4	721.4	713.0	706.9
30°	850.0	814.5	789.0	768.4	737.9	723.5	713.0	701.9	693.0	684.1	678.0
32.5°	817.6	785.2	761.0	735.6	712.2	696.4	682.8	673.0	665.4	657.0	650.9
35°	766.8	739.6	714.6	689.1	671.9	655.8	639.8	631.4	624.2	616.4	610.9
37.5°	720.8	695.5	671.7	647.5	626.1	613.1	600.1	593.8	584.0	578.8	573.2
40°	692.4	667.5	642.0	618.6	596.5	586.4	574.8	565.4	556.5	552.6	546.5
42.5°	661.4	636.4	614.9	589.8	571.6	558.1	547.3	537.0	530.4	524.6	521.2
45°	615.3	593.1	572.0	547.1	529.9	518.2	506.0	496.6	490.5	486.6	480.5
47.5°	570.6	548.4	527.0	505.2	488.6	475.2	463.1	456.5	448.4	443.7	439.5
50°	538.2	518.2	495.5	475.5	458.9	445.6	435.5	427.2	420.0	413.9	411.2
52.5°	508.4	487.1	467.5	448.9	431.3	416.2	407.2	398.4	393.0	386.0	382.7
55°	459.4	438.9	422.2	403.9	386.7	374.0	362.9	355.1	349.5	341.8	337.4
57.5°	413.4	394.9	375.0	359.2	341.4	330.7	321.5	311.0	304.2	298.1	293.8
60°	382.3	361.2	344.0	329.1	313.5	299.6	291.3	283.0	275.7	269.6	265.8
62.5°	349.8	331.5	315.1	298.8	284.6	272.6	262.9	255.9	249.6	245.6	241.8
65°	300.2	285.8	269.1	255.8	242.5	233.6	225.8	219.7	215.2	212.5	209.2
67.5°	254.5	240.4	225.9	212.9	204.0	197.2	192.1	186.9	184.7	181.1	178.9
70°	224.7	210.3	197.5	187.5	178.6	173.7	170.3	166.5	164.2	159.8	157.6
72.5°	192.3	181.9	172.7	164.4	157.4	152.8	148.5	143.8	140.2	135.3	133.1
75°	151.5	142.0	134.9	129.3	124.8	118.7	112.6	107.6	106.0	104.3	103.8
77.5°	112.2	106.2	101.0	96.3	90.7	86.3	85.0	83.9	83.6	82.7	82.7
80°	88.2	82.7	78.8	73.2	69.9	69.9	69.9	68.8	69.4	69.4	69.4
82.5°	65.6	60.5	58.4	56.3	55.7	56.2	56.2	56.3	56.0	56.9	56.5
85°	33.8	34.4	35.5	35.0	35.5	35.5	36.6	36.0	36.6	35.5	36.6
87.5°	14.0	15.8	16.7	17.6	18.5	18.6	19.2	19.3	19.9	20.1	20.1
90°	8.1	10.1	12.5	14.8	17.2	19.6	20.2	21.0	21.7	22.4	23.0
92.5°	24.6	25.9	27.2	28.5	29.9	31.2	31.8	32.4	33.0	33.6	33.8
95°	53.1	54.5	55.8	57.3	58.8	60.3	61.0	61.6	62.4	63.1	63.5
97.5°	89.0	90.0	91.1	92.1	93.2	94.2	95.1	95.9	96.8	97.6	97.9
100°	115.0	116.0	116.9	117.8	118.7	119.6	120.2	120.7	121.2	121.8	122.3
102.5°	142.6	143.5	144.7	145.9	147.1	148.3	148.8	149.4	149.9	150.4	150.7
105°	184.6	185.6	187.2	188.8	190.5	192.1	192.1	192.1	192.1	192.1	192.2
107.5°	234.2	234.6	235.2	235.9	236.5	237.2	237.7	238.3	238.9	239.5	239.6
110°	266.0	266.3	266.7	267.0	267.4	267.7	268.5	269.2	269.9	270.7	270.8



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	297.9	298.1	298.2	298.2	298.3	298.3	299.2	300.1	300.9	301.8	302.2
115°	348.1	348.1	347.8	347.4	347.1	346.7	346.9	347.1	347.2	347.4	347.4
117.5°	396.5	396.4	396.0	395.5	395.0	394.5	394.5	394.4	394.4	394.4	394.1
120°	430.0	430.1	429.2	428.3	427.4	426.5	426.2	426.1	425.9	425.7	425.4
122.5°	460.7	460.9	460.4	459.9	459.5	459.0	458.5	458.0	457.6	457.1	456.6
125°	508.3	508.5	508.1	507.8	507.4	507.0	506.3	505.6	504.8	504.1	503.4
127.5°	555.8	556.1	555.7	555.4	555.0	554.6	553.5	552.5	551.5	550.5	549.6
130°	586.9	587.3	586.8	586.2	585.7	585.1	584.4	583.7	582.9	582.3	581.2
132.5°	616.9	617.3	616.9	616.5	616.1	615.7	614.9	614.0	613.2	612.3	611.4
135°	661.1	661.5	661.4	661.2	661.0	660.8	660.1	659.4	658.7	657.9	657.4
137.5°	702.7	703.4	703.8	704.3	704.8	705.2	704.5	703.8	703.0	702.2	701.5
140°	732.0	732.5	732.7	732.9	733.1	733.3	733.1	732.9	732.7	732.5	731.8
142.5°	758.7	759.3	759.6	759.9	760.3	760.6	760.4	760.3	760.1	759.9	759.3
145°	798.2	798.7	799.2	799.7	800.3	800.8	800.6	800.5	800.3	800.1	799.6
147.5°	835.8	836.4	836.9	837.4	837.9	838.5	838.5	838.5	838.5	838.5	837.9
150°	860.1	860.4	860.8	861.1	861.5	861.9	861.9	861.9	861.9	861.9	861.3
152.5°	881.4	881.8	882.1	882.2	882.5	882.7	883.0	883.3	883.5	883.9	883.5
155°	912.3	912.4	912.6	912.7	913.0	913.1	913.9	914.6	915.3	916.0	915.7
157.5°	939.5	939.4	939.6	939.7	939.9	940.0	940.8	941.5	942.2	943.1	942.9
160°	956.4	956.3	956.3	956.3	956.3	956.3	957.2	958.1	959.0	959.9	959.9
162.5°	971.5	971.3	971.4	971.6	971.8	971.9	972.8	973.7	974.6	975.5	975.3
165°	991.6	991.2	991.2	991.2	991.2	991.2	992.3	993.4	994.5	995.6	995.5
167.5°	1006.9	1006.7	1006.8	1006.9	1007.1	1007.2	1008.4	1009.4	1010.6	1011.7	1011.7
170°	1016.0	1015.7	1015.7	1015.7	1015.7	1015.7	1016.9	1018.2	1019.5	1020.8	1020.8
172.5°	1023.2	1022.8	1022.8	1022.8	1022.8	1022.8	1023.9	1025.1	1026.2	1027.3	1027.3
175°	1030.7	1030.3	1030.3	1030.3	1030.3	1030.3	1031.4	1032.5	1033.6	1034.7	1034.5
177.5°	1034.4	1034.0	1034.0	1034.0	1034.0	1034.0	1034.9	1035.8	1036.7	1037.5	1037.5
180°	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0



TEST NUMBER: P332349-930

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1
2.5°	1234.9	1234.4	1234.9	1233.1	1234.9	1234.4	1234.9	1240.2	1240.2	1240.6	1241.0
5°	1149.1	1148.5	1146.9	1141.8	1146.9	1148.5	1149.1	1150.7	1155.2	1162.9	1160.7
7.5°	1074.2	1073.4	1068.5	1068.6	1068.5	1073.4	1074.2	1078.5	1083.5	1088.3	1093.9
10°	1029.8	1030.3	1023.7	1019.8	1023.7	1030.3	1029.8	1033.6	1040.9	1044.7	1048.6
12.5°	986.8	984.1	978.8	974.5	978.8	984.1	986.8	989.7	999.6	1004.0	1011.4
15°	929.9	924.4	911.0	912.2	911.0	924.4	929.9	927.7	937.7	943.2	945.4
17.5°	863.0	858.9	858.7	850.9	858.7	858.9	863.0	867.4	876.1	882.1	898.0
20°	823.9	821.2	822.2	814.5	822.2	821.2	823.9	832.8	838.4	846.1	858.9
22.5°	793.3	790.5	785.9	783.4	785.9	790.5	793.3	799.5	805.5	816.4	823.4
25°	748.4	744.0	739.6	742.4	739.6	744.0	748.4	751.8	762.9	767.9	777.9
27.5°	703.7	700.3	695.9	695.3	695.9	700.3	703.7	706.9	713.0	721.4	733.4
30°	675.2	671.9	669.7	666.9	669.7	671.9	675.2	678.0	684.1	693.0	701.9
32.5°	646.4	645.7	641.7	641.2	641.7	645.7	646.4	650.9	657.0	665.4	673.0
35°	608.6	605.4	604.2	604.8	604.2	605.4	608.6	610.9	616.4	624.2	631.4
37.5°	572.8	568.3	566.4	564.4	566.4	568.3	572.8	573.2	578.8	584.0	593.8
40°	547.1	542.7	541.5	540.4	541.5	542.7	547.1	546.5	552.6	556.5	565.4
42.5°	518.2	516.4	515.8	513.8	515.8	516.4	518.2	521.2	524.6	530.4	537.0
45°	478.8	478.3	474.9	476.1	474.9	478.3	478.8	480.5	486.6	490.5	496.6
47.5°	437.3	434.9	432.5	434.1	432.5	434.9	437.3	439.5	443.7	448.4	456.5
50°	409.0	407.8	402.8	403.9	402.8	407.8	409.0	411.2	413.9	420.0	427.2
52.5°	380.5	376.3	374.4	373.7	374.4	376.3	380.5	382.7	386.0	393.0	398.4
55°	333.5	328.5	326.3	325.1	326.3	328.5	333.5	337.4	341.8	349.5	355.1
57.5°	287.3	285.9	284.2	285.4	284.2	285.9	287.3	293.8	298.1	304.2	311.0
60°	260.2	260.2	260.2	259.7	260.2	260.2	260.2	265.8	269.6	275.7	283.0
62.5°	239.4	238.0	237.6	238.4	237.6	238.0	239.4	241.8	245.6	249.6	255.9
65°	207.5	206.9	204.7	204.2	204.7	206.9	207.5	209.2	212.5	215.2	219.7
67.5°	177.4	175.5	174.8	174.0	174.8	175.5	177.4	178.9	181.1	184.7	186.9
70°	154.8	153.7	150.3	150.9	150.3	153.7	154.8	157.6	159.8	164.2	166.5
72.5°	130.4	129.3	128.6	127.8	128.6	129.3	130.4	133.1	135.3	140.2	143.8
75°	103.2	102.6	102.1	104.3	102.1	102.6	103.2	103.8	104.3	106.0	107.6
77.5°	82.7	82.7	83.0	82.1	83.0	82.7	82.7	82.7	82.7	83.6	83.9
80°	69.4	69.4	68.8	68.8	68.8	69.4	69.4	69.4	69.4	69.4	68.8
82.5°	55.6	56.0	56.3	55.5	56.3	56.0	55.6	56.5	56.9	56.0	56.3
85°	36.6	36.0	37.2	36.6	37.2	36.0	36.6	36.6	35.5	36.6	36.0
87.5°	21.1	20.3	20.4	20.9	20.4	20.3	21.1	20.1	20.1	19.9	19.3
90°	23.3	23.7	24.1	24.4	24.1	23.7	23.3	23.0	22.4	21.7	21.0
92.5°	33.5	33.3	33.1	32.9	33.1	33.3	33.5	33.8	33.6	33.0	32.4
95°	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.1	62.4	61.6
97.5°	97.9	97.8	97.8	97.7	97.8	97.8	97.9	97.9	97.6	96.8	95.9
100°	122.6	122.9	123.4	123.7	123.4	122.9	122.6	122.3	121.8	121.2	120.7
102.5°	150.6	150.5	150.5	150.4	150.5	150.5	150.6	150.7	150.4	149.9	149.4
105°	192.6	193.0	193.3	193.7	193.3	193.0	192.6	192.2	192.1	192.1	192.1
107.5°	239.5	239.2	239.0	238.8	239.0	239.2	239.5	239.6	239.5	238.9	238.3
110°	270.4	270.1	269.8	269.4	269.8	270.1	270.4	270.8	270.7	269.9	269.2



TEST NUMBER: P332349-930

CATALOG NUMBER: S123RDIP-S1000D1025U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	302.1	302.1	302.0	301.9	302.0	302.1	302.1	302.2	301.8	300.9	300.1
115°	347.2	347.1	346.9	346.7	346.9	347.1	347.2	347.4	347.4	347.2	347.1
117.5°	393.6	393.1	392.6	392.1	392.6	393.1	393.6	394.1	394.4	394.4	394.4
120°	425.1	424.8	424.4	424.0	424.4	424.8	425.1	425.4	425.7	425.9	426.1
122.5°	456.2	455.6	455.1	454.6	455.1	455.6	456.2	456.6	457.1	457.6	458.0
125°	502.7	502.0	501.2	500.5	501.2	502.0	502.7	503.4	504.1	504.8	505.6
127.5°	548.8	547.9	547.1	546.3	547.1	547.9	548.8	549.6	550.5	551.5	552.5
130°	580.0	578.7	577.5	576.2	577.5	578.7	580.0	581.2	582.3	582.9	583.7
132.5°	610.4	609.4	608.5	607.5	608.5	609.4	610.4	611.4	612.3	613.2	614.0
135°	657.0	656.6	656.3	656.0	656.3	656.6	657.0	657.4	657.9	658.7	659.4
137.5°	700.8	700.1	699.4	698.8	699.4	700.1	700.8	701.5	702.2	703.0	703.8
140°	730.6	729.3	728.1	726.8	728.1	729.3	730.6	731.8	732.5	732.7	732.9
142.5°	758.3	757.3	756.4	755.4	756.4	757.3	758.3	759.3	759.9	760.1	760.3
145°	798.9	798.2	797.4	796.7	797.4	798.2	798.9	799.6	800.1	800.3	800.5
147.5°	836.8	835.7	834.6	833.6	834.6	835.7	836.8	837.9	838.5	838.5	838.5
150°	860.2	859.2	858.0	857.0	858.0	859.2	860.2	861.3	861.9	861.9	861.9
152.5°	882.6	881.7	880.7	879.8	880.7	881.7	882.6	883.5	883.9	883.5	883.3
155°	914.5	913.2	911.9	910.7	911.9	913.2	914.5	915.7	916.0	915.3	914.6
157.5°	941.9	940.9	939.9	938.8	939.9	940.9	941.9	942.9	943.1	942.2	941.5
160°	959.3	958.5	957.8	957.1	957.8	958.5	959.3	959.9	959.9	959.0	958.1
162.5°	974.2	973.1	971.9	970.8	971.9	973.1	974.2	975.3	975.5	974.6	973.7
165°	994.3	993.0	991.7	990.4	991.7	993.0	994.3	995.5	995.6	994.5	993.4
167.5°	1010.6	1009.4	1008.4	1007.2	1008.4	1009.4	1010.6	1011.7	1011.7	1010.6	1009.4
170°	1019.5	1018.2	1016.9	1015.7	1016.9	1018.2	1019.5	1020.8	1020.8	1019.5	1018.2
172.5°	1026.0	1024.7	1023.4	1022.1	1023.4	1024.7	1026.0	1027.3	1027.3	1026.2	1025.1
175°	1033.3	1032.0	1030.8	1029.5	1030.8	1032.0	1033.3	1034.5	1034.7	1033.6	1032.5
177.5°	1036.5	1035.4	1034.5	1033.4	1034.5	1035.4	1036.5	1037.5	1037.5	1036.7	1035.8
180°	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0



TEST NUMBER: P332349-930

CATALOG NUMBER: S123RDIP-S1000D1025U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1
2.5°	1237.1	1243.2	1249.5	1255.2	1264.1	1268.1	1273.9	1276.1	1282.8	1292.6	1300.6
5°	1161.8	1170.7	1182.3	1191.8	1206.8	1218.4	1231.2	1243.4	1257.8	1278.3	1296.7
7.5°	1098.0	1106.8	1120.8	1138.3	1154.9	1171.3	1188.8	1205.4	1226.0	1255.5	1284.7
10°	1055.9	1066.4	1083.0	1101.9	1122.4	1138.6	1159.0	1180.1	1205.7	1239.5	1274.5
12.5°	1019.5	1027.4	1046.7	1064.6	1087.9	1108.3	1128.5	1153.1	1182.1	1218.2	1260.3
15°	961.6	972.7	991.5	1011.5	1035.9	1057.5	1083.6	1113.5	1141.8	1186.3	1237.3
17.5°	903.4	920.2	939.9	962.5	980.5	1010.3	1038.7	1069.4	1104.2	1151.3	1207.3
20°	866.1	879.4	897.7	930.5	954.3	977.1	1003.1	1041.5	1073.6	1126.9	1185.1
22.5°	834.6	844.3	864.9	891.9	919.7	946.0	972.5	1009.0	1048.7	1099.3	1162.5
25°	787.9	803.4	819.0	838.4	868.3	899.9	928.8	959.9	1002.0	1055.9	1124.1
27.5°	742.2	756.4	771.7	795.5	818.2	847.8	878.0	913.6	958.9	1015.8	1085.0
30°	713.0	723.5	737.9	768.4	789.0	814.5	850.0	881.7	923.8	984.3	1057.5
32.5°	682.8	696.4	712.2	735.6	761.0	785.2	817.6	851.9	895.0	954.6	1029.6
35°	639.8	655.8	671.9	689.1	714.6	739.6	766.8	804.5	848.3	906.0	979.8
37.5°	600.1	613.1	626.1	647.5	671.7	695.5	720.8	758.0	799.3	861.5	929.3
40°	574.8	586.4	596.5	618.6	642.0	667.5	692.4	725.2	769.6	827.9	893.3
42.5°	547.3	558.1	571.6	589.8	614.9	636.4	661.4	692.4	734.0	793.2	850.7
45°	506.0	518.2	529.9	547.1	572.0	593.1	615.3	644.7	687.5	736.3	787.3
47.5°	463.1	475.2	488.6	505.2	527.0	548.4	570.6	596.6	635.6	683.5	718.0
50°	435.5	445.6	458.9	475.5	495.5	518.2	538.2	566.5	603.6	641.4	671.3
52.5°	407.2	416.2	431.3	448.9	467.5	487.1	508.4	532.7	566.4	601.9	625.7
55°	362.9	374.0	386.7	403.9	422.2	438.9	459.4	484.4	511.0	537.6	553.8
57.5°	321.5	330.7	341.4	359.2	375.0	394.9	413.4	432.8	457.4	477.5	488.0
60°	291.3	299.6	313.5	329.1	344.0	361.2	382.3	401.7	420.5	436.7	445.0
62.5°	262.9	272.6	284.6	298.8	315.1	331.5	349.8	366.2	382.9	396.7	402.4
65°	225.8	233.6	242.5	255.8	269.1	285.8	300.2	316.8	329.1	336.8	341.8
67.5°	192.1	197.2	204.0	212.9	225.9	240.4	254.5	267.4	277.6	283.0	287.4
70°	170.3	173.7	178.6	187.5	197.5	210.3	224.7	234.2	243.0	247.4	251.9
72.5°	148.5	152.8	157.4	164.4	172.7	181.9	192.3	204.0	208.9	214.2	216.9
75°	112.6	118.7	124.8	129.3	134.9	142.0	151.5	158.7	161.4	165.9	166.5
77.5°	85.0	86.3	90.7	96.3	101.0	106.2	112.2	118.6	119.9	122.3	123.8
80°	69.9	69.9	69.9	73.2	78.8	82.7	88.2	91.6	93.8	94.3	94.9
82.5°	56.2	56.2	55.7	56.3	58.4	60.5	65.6	69.4	71.1	70.8	69.5
85°	36.6	35.5	35.5	35.0	35.5	34.4	33.8	36.0	39.4	39.4	38.3
87.5°	19.2	18.6	18.5	17.6	16.7	15.8	14.0	14.1	13.8	15.2	14.3
90°	20.2	19.6	17.2	14.8	12.5	10.1	8.1	6.3	4.4	2.6	0.8
92.5°	31.8	31.2	29.9	28.5	27.2	25.9	24.6	23.4	22.2	21.0	19.7
95°	61.0	60.3	58.8	57.3	55.8	54.5	53.1	51.9	50.5	49.2	48.0
97.5°	95.1	94.2	93.2	92.1	91.1	90.0	89.0	88.1	87.2	86.3	85.3
100°	120.2	119.6	118.7	117.8	116.9	116.0	115.0	113.9	112.8	111.8	110.7
102.5°	148.8	148.3	147.1	145.9	144.7	143.5	142.6	141.9	141.3	140.6	140.0
105°	192.1	192.1	190.5	188.8	187.2	185.6	184.6	184.2	183.8	183.4	183.1
107.5°	237.7	237.2	236.5	235.9	235.2	234.6	234.2	233.9	233.7	233.5	233.3
110°	268.5	267.7	267.4	267.0	266.7	266.3	266.0	265.5	265.2	264.9	264.5



TEST NUMBER: P332349-930

CATALOG NUMBER: S123RDIP-S1000D1025U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	299.2	298.3	298.3	298.2	298.2	298.1	297.9	297.7	297.5	297.3	297.0
115°	346.9	346.7	347.1	347.4	347.8	348.1	348.1	347.5	347.0	346.4	345.8
117.5°	394.5	394.5	395.0	395.5	396.0	396.4	396.5	396.2	395.7	395.4	395.0
120°	426.2	426.5	427.4	428.3	429.2	430.1	430.0	428.9	427.8	426.7	425.7
122.5°	458.5	459.0	459.5	459.9	460.4	460.9	460.7	459.9	459.1	458.4	457.5
125°	506.3	507.0	507.4	507.8	508.1	508.5	508.3	507.8	507.3	506.8	506.2
127.5°	553.5	554.6	555.0	555.4	555.7	556.1	555.8	554.6	553.4	552.3	551.1
130°	584.4	585.1	585.7	586.2	586.8	587.3	586.9	585.4	584.0	582.5	581.1
132.5°	614.9	615.7	616.1	616.5	616.9	617.3	616.9	615.4	613.9	612.5	611.1
135°	660.1	660.8	661.0	661.2	661.4	661.5	661.1	660.0	658.9	657.9	656.8
137.5°	704.5	705.2	704.8	704.3	703.8	703.4	702.7	701.8	700.9	700.0	699.1
140°	733.1	733.3	733.1	732.9	732.7	732.5	732.0	731.1	730.2	729.3	728.4
142.5°	760.4	760.6	760.3	759.9	759.6	759.3	758.7	757.8	756.9	755.9	755.0
145°	800.6	800.8	800.3	799.7	799.2	798.7	798.2	797.9	797.4	797.1	796.7
147.5°	838.5	838.5	837.9	837.4	836.9	836.4	835.8	835.2	834.5	833.9	833.2
150°	861.9	861.9	861.5	861.1	860.8	860.4	860.1	859.7	859.3	859.0	858.6
152.5°	883.0	882.7	882.5	882.2	882.1	881.8	881.4	880.9	880.4	880.0	879.5
155°	913.9	913.1	913.0	912.7	912.6	912.4	912.3	912.3	912.3	912.3	912.3
157.5°	940.8	940.0	939.9	939.7	939.6	939.4	939.5	939.6	939.9	940.1	940.3
160°	957.2	956.3	956.3	956.3	956.3	956.3	956.4	956.8	957.2	957.5	957.9
162.5°	972.8	971.9	971.8	971.6	971.4	971.3	971.5	972.0	972.5	973.0	973.5
165°	992.3	991.2	991.2	991.2	991.2	991.2	991.6	992.1	992.6	993.1	993.7
167.5°	1008.4	1007.2	1007.1	1006.9	1006.8	1006.7	1006.9	1007.6	1008.4	1009.1	1009.8
170°	1016.9	1015.7	1015.7	1015.7	1015.7	1015.7	1016.0	1016.8	1017.5	1018.2	1019.0
172.5°	1023.9	1022.8	1022.8	1022.8	1022.8	1022.8	1023.2	1023.9	1024.7	1025.4	1026.1
175°	1031.4	1030.3	1030.3	1030.3	1030.3	1030.3	1030.7	1031.4	1032.1	1032.8	1033.6
177.5°	1034.9	1034.0	1034.0	1034.0	1034.0	1034.0	1034.4	1034.9	1035.5	1036.1	1036.7
180°	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0



TEST NUMBER: P332349-930

CATALOG NUMBER: S123RDIP-S1000D1025U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1
2.5°	1303.2	1308.1	1314.3	1323.6	1330.7	1336.9	1338.2	1340.0	1344.5	1352.0	1357.8
5°	1311.7	1324.4	1344.9	1364.9	1386.6	1404.3	1420.9	1432.6	1443.7	1467.0	1485.9
7.5°	1309.0	1337.4	1369.5	1405.4	1441.7	1476.8	1509.5	1538.7	1567.7	1601.7	1640.5
10°	1307.2	1340.5	1383.7	1429.8	1480.3	1529.7	1577.4	1614.6	1657.8	1696.7	1746.0
12.5°	1298.8	1346.7	1398.4	1457.3	1519.4	1576.3	1639.1	1690.4	1740.0	1796.1	1853.5
15°	1287.8	1346.1	1411.5	1489.7	1584.0	1652.9	1717.2	1806.5	1867.6	1928.6	2010.8
17.5°	1267.7	1338.8	1420.6	1522.2	1600.9	1693.4	1790.2	1860.8	1943.0	2029.0	2103.4
20°	1251.7	1334.4	1426.0	1525.8	1626.2	1726.6	1820.4	1904.8	1989.7	2089.0	2150.0
22.5°	1235.7	1317.5	1412.6	1518.7	1626.7	1732.4	1838.6	1937.6	2033.1	2133.3	2211.3
25°	1201.8	1298.9	1402.1	1510.3	1616.8	1733.3	1859.8	1970.3	2088.4	2191.6	2265.4
27.5°	1167.3	1256.4	1359.1	1468.8	1587.3	1725.0	1873.8	1999.3	2117.7	2191.6	2214.8
30°	1136.3	1230.6	1324.9	1436.5	1564.6	1718.3	1876.5	2020.1	2117.3	2149.5	2125.6
32.5°	1104.8	1190.3	1283.7	1397.8	1534.0	1701.9	1880.0	2007.8	2066.2	2041.6	1944.5
35°	1049.2	1126.3	1216.8	1331.1	1487.5	1692.8	1865.4	1951.9	1937.5	1798.8	1615.7
37.5°	989.7	1052.6	1136.3	1255.8	1439.3	1656.8	1802.3	1815.1	1690.3	1477.3	1265.8
40°	942.6	999.2	1085.2	1210.1	1402.1	1621.2	1738.9	1687.3	1493.6	1256.7	1080.3
42.5°	896.9	944.7	1027.5	1162.1	1366.6	1572.9	1644.3	1531.9	1308.6	1084.5	924.1
45°	819.5	864.5	947.6	1085.8	1293.9	1480.3	1470.9	1275.5	1052.0	871.6	738.5
47.5°	746.0	785.3	863.4	1004.4	1208.5	1341.6	1253.4	1045.5	855.9	711.2	616.2
50°	694.1	733.0	810.7	949.9	1140.2	1237.3	1111.3	911.0	737.4	617.5	542.1
52.5°	644.4	682.3	753.3	889.1	1057.6	1115.7	980.4	794.8	650.0	546.5	481.7
55°	574.8	603.6	667.5	797.3	923.2	936.5	799.5	644.2	524.9	452.7	408.4
57.5°	503.9	528.7	591.8	695.2	783.5	776.7	646.7	512.3	432.0	378.4	346.3
60°	457.7	482.2	537.6	626.4	693.0	669.7	550.4	442.2	373.4	334.0	308.5
62.5°	414.7	433.7	485.7	550.5	598.4	572.0	470.5	381.0	326.4	293.2	273.0
65°	352.3	367.9	409.4	443.3	469.9	444.4	360.1	297.9	258.5	235.2	221.4
67.5°	293.1	303.0	329.2	341.4	360.2	332.2	270.8	229.2	206.8	187.1	177.4
70°	255.8	263.0	276.9	286.8	291.9	263.0	217.5	186.9	168.1	154.3	148.1
72.5°	218.5	224.9	227.6	235.8	233.3	206.2	174.9	150.6	137.1	127.6	119.8
75°	167.0	169.7	167.0	163.7	156.5	137.6	115.9	103.8	93.8	89.4	86.6
77.5°	121.7	120.8	117.1	111.9	99.5	87.6	76.0	71.9	67.6	65.2	64.2
80°	93.8	91.6	88.2	79.9	69.4	61.1	58.3	55.5	53.8	51.0	50.5
82.5°	69.8	68.5	62.9	55.9	48.5	44.6	42.3	41.3	39.6	38.2	38.1
85°	37.2	35.5	29.4	25.5	24.4	23.3	22.7	22.7	20.5	20.0	20.0
87.5°	12.5	10.2	10.1	9.1	9.5	9.1	10.0	9.6	9.7	10.3	9.5
90°	2.6	4.4	6.3	8.1	10.1	12.5	14.8	17.2	19.6	20.2	21.0
92.5°	21.0	22.2	23.4	24.6	25.9	27.2	28.5	29.9	31.2	31.8	32.4
95°	49.2	50.5	51.9	53.1	54.5	55.8	57.3	58.8	60.3	61.0	61.6
97.5°	86.3	87.2	88.1	89.0	90.0	91.1	92.1	93.2	94.2	95.1	95.9
100°	111.8	112.8	113.9	115.0	116.0	116.9	117.8	118.7	119.6	120.2	120.7
102.5°	140.6	141.3	141.9	142.6	143.5	144.7	145.9	147.1	148.3	148.8	149.4
105°	183.4	183.8	184.2	184.6	185.6	187.2	188.8	190.5	192.1	192.1	192.1
107.5°	233.5	233.7	233.9	234.2	234.6	235.2	235.9	236.5	237.2	237.7	238.3
110°	264.9	265.2	265.5	266.0	266.3	266.7	267.0	267.4	267.7	268.5	269.2



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	297.3	297.5	297.7	297.9	298.1	298.2	298.2	298.3	298.3	299.2	300.1
115°	346.4	347.0	347.5	348.1	348.1	347.8	347.4	347.1	346.7	346.9	347.1
117.5°	395.4	395.7	396.2	396.5	396.4	396.0	395.5	395.0	394.5	394.5	394.4
120°	426.7	427.8	428.9	430.0	430.1	429.2	428.3	427.4	426.5	426.2	426.1
122.5°	458.4	459.1	459.9	460.7	460.9	460.4	459.9	459.5	459.0	458.5	458.0
125°	506.8	507.3	507.8	508.3	508.5	508.1	507.8	507.4	507.0	506.3	505.6
127.5°	552.3	553.4	554.6	555.8	556.1	555.7	555.4	555.0	554.6	553.5	552.5
130°	582.5	584.0	585.4	586.9	587.3	586.8	586.2	585.7	585.1	584.4	583.7
132.5°	612.5	613.9	615.4	616.9	617.3	616.9	616.5	616.1	615.7	614.9	614.0
135°	657.9	658.9	660.0	661.1	661.5	661.4	661.2	661.0	660.8	660.1	659.4
137.5°	700.0	700.9	701.8	702.7	703.4	703.8	704.3	704.8	705.2	704.5	703.8
140°	729.3	730.2	731.1	732.0	732.5	732.7	732.9	733.1	733.3	733.1	732.9
142.5°	755.9	756.9	757.8	758.7	759.3	759.6	759.9	760.3	760.6	760.4	760.3
145°	797.1	797.4	797.9	798.2	798.7	799.2	799.7	800.3	800.8	800.6	800.5
147.5°	833.9	834.5	835.2	835.8	836.4	836.9	837.4	837.9	838.5	838.5	838.5
150°	859.0	859.3	859.7	860.1	860.4	860.8	861.1	861.5	861.9	861.9	861.9
152.5°	880.0	880.4	880.9	881.4	881.8	882.1	882.2	882.5	882.7	883.0	883.3
155°	912.3	912.3	912.3	912.3	912.4	912.6	912.7	913.0	913.1	913.9	914.6
157.5°	940.1	939.9	939.6	939.5	939.4	939.6	939.7	939.9	940.0	940.8	941.5
160°	957.5	957.2	956.8	956.4	956.3	956.3	956.3	956.3	956.3	957.2	958.1
162.5°	973.0	972.5	972.0	971.5	971.3	971.4	971.6	971.8	971.9	972.8	973.7
165°	993.1	992.6	992.1	991.6	991.2	991.2	991.2	991.2	991.2	992.3	993.4
167.5°	1009.1	1008.4	1007.6	1006.9	1006.7	1006.8	1006.9	1007.1	1007.2	1008.4	1009.4
170°	1018.2	1017.5	1016.8	1016.0	1015.7	1015.7	1015.7	1015.7	1015.7	1016.9	1018.2
172.5°	1025.4	1024.7	1023.9	1023.2	1022.8	1022.8	1022.8	1022.8	1022.8	1023.9	1025.1
175°	1032.8	1032.1	1031.4	1030.7	1030.3	1030.3	1030.3	1030.3	1030.3	1031.4	1032.5
177.5°	1036.1	1035.5	1034.9	1034.4	1034.0	1034.0	1034.0	1034.0	1034.0	1034.9	1035.8
180°	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1
2.5°	1367.1	1367.1	1368.9	1375.6	1376.5	1382.2	1380.5
5°	1502.5	1513.0	1516.9	1533.6	1543.5	1548.0	1539.1
7.5°	1668.1	1697.8	1711.9	1729.3	1744.7	1749.4	1737.3
10°	1788.8	1819.8	1845.9	1862.1	1877.0	1887.0	1899.7
12.5°	1905.5	1943.7	1968.5	1991.2	2006.6	2019.3	2021.4
15°	2032.4	2090.1	2133.9	2166.1	2182.1	2190.5	2187.2
17.5°	2160.3	2213.8	2245.0	2277.9	2300.1	2301.3	2301.9
20°	2232.7	2284.8	2320.9	2345.3	2370.2	2369.2	2374.7
22.5°	2281.0	2322.1	2349.8	2367.5	2376.0	2371.8	2372.9
25°	2303.7	2315.9	2310.9	2282.6	2275.4	2249.3	2253.7
27.5°	2187.0	2129.2	2069.6	1992.8	1932.2	1883.7	1886.2
30°	2028.5	1926.4	1809.9	1712.2	1624.6	1600.2	1548.0
32.5°	1807.0	1653.8	1517.4	1426.4	1351.1	1330.7	1285.2
35°	1431.5	1282.8	1142.4	1058.1	1024.7	978.2	977.6
37.5°	1112.6	981.7	907.5	844.2	811.1	782.9	780.1
40°	936.0	833.9	777.9	732.4	699.7	678.6	673.6
42.5°	812.6	730.0	677.6	649.4	624.2	613.3	605.2
45°	663.6	608.1	571.4	545.9	534.3	525.9	521.5
47.5°	555.1	517.9	492.9	476.0	466.5	457.7	460.1
50°	496.0	465.5	447.2	431.1	423.9	417.8	418.3
52.5°	448.5	421.1	406.3	394.7	385.7	381.4	379.3
55°	380.6	363.4	348.5	340.1	335.1	329.1	327.3
57.5°	324.7	311.4	299.1	289.8	288.5	282.7	283.4
60°	287.4	276.3	266.4	261.3	257.5	252.4	254.1
62.5°	256.8	247.4	238.4	234.2	230.4	226.7	227.5
65°	210.3	201.4	195.8	193.6	192.0	190.3	188.7
67.5°	167.5	162.2	158.7	153.9	150.5	149.9	148.2
70°	141.0	133.7	127.6	121.5	119.8	119.3	119.8
72.5°	113.0	108.4	106.7	103.8	103.5	102.0	103.0
75°	84.9	83.2	82.1	79.9	79.9	79.9	79.9
77.5°	62.6	61.6	60.9	60.5	59.9	59.1	59.0
80°	48.8	48.3	47.1	47.1	46.6	47.1	46.6
82.5°	36.9	36.8	35.6	35.6	35.1	34.7	35.1
85°	18.8	18.3	19.4	18.3	18.8	17.8	18.8
87.5°	9.7	9.8	9.5	9.5	9.2	10.1	9.3
90°	21.7	22.4	23.0	23.3	23.7	24.1	24.4
92.5°	33.0	33.6	33.8	33.5	33.3	33.1	32.9
95°	62.4	63.1	63.5	63.5	63.5	63.5	63.5
97.5°	96.8	97.6	97.9	97.9	97.8	97.8	97.7
100°	121.2	121.8	122.3	122.6	122.9	123.4	123.7
102.5°	149.9	150.4	150.7	150.6	150.5	150.5	150.4
105°	192.1	192.1	192.2	192.6	193.0	193.3	193.7
107.5°	238.9	239.5	239.6	239.5	239.2	239.0	238.8
110°	269.9	270.7	270.8	270.4	270.1	269.8	269.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	300.9	301.8	302.2	302.1	302.1	302.0	301.9
115°	347.2	347.4	347.4	347.2	347.1	346.9	346.7
117.5°	394.4	394.4	394.1	393.6	393.1	392.6	392.1
120°	425.9	425.7	425.4	425.1	424.8	424.4	424.0
122.5°	457.6	457.1	456.6	456.2	455.6	455.1	454.6
125°	504.8	504.1	503.4	502.7	502.0	501.2	500.5
127.5°	551.5	550.5	549.6	548.8	547.9	547.1	546.3
130°	582.9	582.3	581.2	580.0	578.7	577.5	576.2
132.5°	613.2	612.3	611.4	610.4	609.4	608.5	607.5
135°	658.7	657.9	657.4	657.0	656.6	656.3	656.0
137.5°	703.0	702.2	701.5	700.8	700.1	699.4	698.8
140°	732.7	732.5	731.8	730.6	729.3	728.1	726.8
142.5°	760.1	759.9	759.3	758.3	757.3	756.4	755.4
145°	800.3	800.1	799.6	798.9	798.2	797.4	796.7
147.5°	838.5	838.5	837.9	836.8	835.7	834.6	833.6
150°	861.9	861.9	861.3	860.2	859.2	858.0	857.0
152.5°	883.5	883.9	883.5	882.6	881.7	880.7	879.8
155°	915.3	916.0	915.7	914.5	913.2	911.9	910.7
157.5°	942.2	943.1	942.9	941.9	940.9	939.9	938.8
160°	959.0	959.9	959.9	959.3	958.5	957.8	957.1
162.5°	974.6	975.5	975.3	974.2	973.1	971.9	970.8
165°	994.5	995.6	995.5	994.3	993.0	991.7	990.4
167.5°	1010.6	1011.7	1011.7	1010.6	1009.4	1008.4	1007.2
170°	1019.5	1020.8	1020.8	1019.5	1018.2	1016.9	1015.7
172.5°	1026.2	1027.3	1027.3	1026.0	1024.7	1023.4	1022.1
175°	1033.6	1034.7	1034.5	1033.3	1032.0	1030.8	1029.5
177.5°	1036.7	1037.5	1037.5	1036.5	1035.4	1034.5	1033.4
180°	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0

(END OF REPORT)