

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: P332967-935

Luminaire Tested: **SA4XXRDIP-C1020D810U935-4F0-1E-UDD-A**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332967-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXRDIP-C1020D810U935-4F0-1E-UDD-A
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 810 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

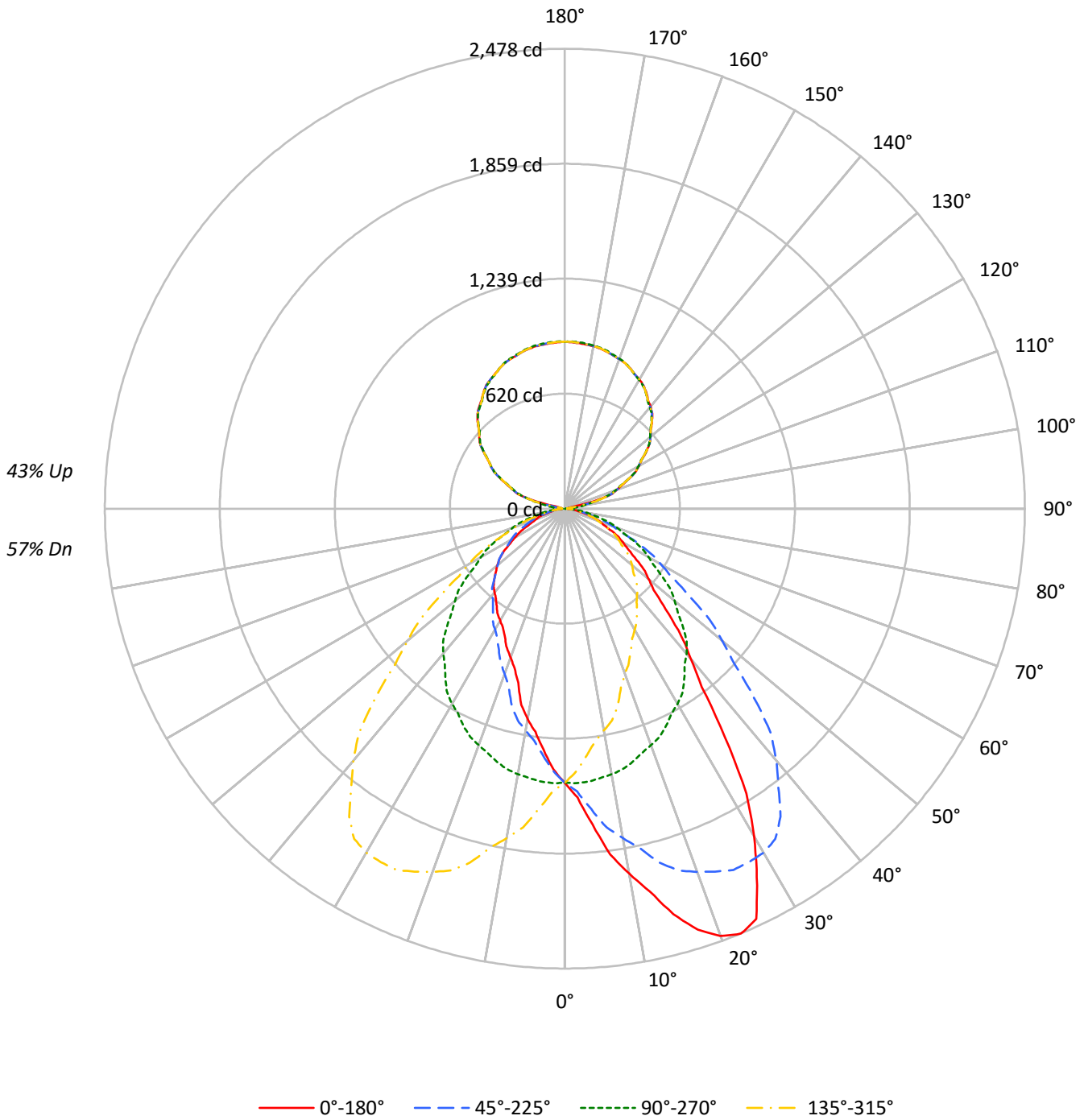
Lumens per Lamp: N/A
Luminaire Lumens: 6521.1 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 54.4
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	109	109	109	109	101	101	101	101	87	87	87	75	75	75	63	63	63	57
1	100	96	92	89	93	89	86	83	77	75	73	66	65	63	56	55	54	49
2	91	84	78	73	85	79	74	69	69	65	61	59	56	54	50	48	46	42
3	84	75	67	62	78	70	63	58	61	56	52	53	49	46	45	42	40	36
4	77	66	59	53	71	62	55	50	54	49	45	47	43	40	40	37	35	32
5	71	59	51	45	66	56	49	43	49	43	39	43	38	35	37	33	31	28
6	65	53	45	40	61	50	43	38	44	39	34	39	34	31	33	30	27	24
7	61	48	40	35	56	46	38	33	40	35	30	35	31	27	31	27	24	22
8	56	44	36	31	52	42	35	30	37	31	27	32	28	24	28	25	22	20
9	52	40	33	28	49	38	31	27	34	28	24	30	25	22	26	22	20	18
10	49	37	30	25	46	35	28	24	31	26	22	28	23	20	24	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11926	11926	11926	11926
5°	13834	11962	10573	11962
10°	16365	11910	9437	11910
15°	18904	11800	8109	11800
20°	21047	11649	7332	11649
25°	21727	11500	6807	11500
30°	19020	11320	6492	11320
35°	14807	11052	6300	11052
40°	11102	10745	6198	10745
45°	8766	10255	6142	10255
50°	7401	9688	5966	9688
55°	6450	9064	5645	9064
60°	5804	8418	4997	8418
65°	5117	7721	4298	7721
70°	4607	6996	3878	6996
75°	3862	6201	3306	6201
80°	3268	5286	3096	5286
85°	2760	4131	2760	4131



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.1	2.2
10°-20°	431.8	6.6
20°-30°	675.3	10.4
30°-40°	750.8	11.5
40°-50°	666.1	10.2
50°-60°	519.0	8.0
60°-70°	339.8	5.2
70°-80°	167.1	2.6
80°-90°	43.8	0.7
90°-100°	30.8	0.5
100°-110°	196.3	3.0
110°-120°	375.5	5.8
120°-130°	476.7	7.3
130°-140°	510.0	7.8
140°-150°	476.9	7.3
150°-160°	384.6	5.9
160°-170°	248.0	3.8
170°-180°	85.5	1.3
0°-30°	1250.3	19.2
0°-40°	2001.0	30.7
0°-60°	3186.1	48.9
0°-90°	3736.9	57.3
90°-120°	602.6	9.2
90°-150°	2066.1	31.7
90°-180°	2784.0	42.7
0°-180°	6521.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1477	1477	1477	1477	1477	
5°	1707	1476	1305	1476	1707	173
15°	2262	1412	970	1412	2262	643
25°	2439	1291	764	1291	2439	1082
35°	1502	1121	639	1121	1502	942
45°	768	898	538	898	768	608
55°	458	644	401	644	458	417
65°	268	404	225	404	268	269
75°	124	199	106	199	124	136
85°	30	45	30	45	30	34
90°	20	2	20	2	20	10
95°	20	37	20	37	20	16
105°	192	203	192	203	192	167
115°	381	378	381	378	381	377
125°	536	532	536	532	536	477
135°	664	660	664	660	664	511
145°	765	761	765	761	765	478
155°	833	834	833	834	833	384
165°	876	880	876	880	876	247
175°	895	900	895	900	895	85
180°	900	900	900	900	900	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3
2.5°	1558.2	1562.5	1558.2	1557.8	1553.1	1551.6	1549.7	1543.5	1532.1	1525.4	1526.8
5°	1707.1	1721.9	1713.6	1712.4	1699.4	1686.3	1677.9	1658.9	1638.7	1625.0	1613.6
7.5°	1879.2	1887.7	1882.6	1874.2	1853.0	1841.0	1821.7	1796.6	1760.3	1732.5	1707.2
10°	1996.3	2003.5	2001.1	1985.6	1970.1	1938.6	1920.7	1885.7	1839.8	1803.5	1769.5
12.5°	2111.6	2119.2	2098.3	2098.9	2069.7	2044.8	2016.5	1972.3	1919.3	1872.5	1830.1
15°	2261.8	2252.3	2252.3	2240.4	2207.6	2173.2	2144.0	2097.6	2030.8	1974.9	1916.0
17.5°	2379.5	2382.7	2377.9	2349.8	2324.1	2288.4	2234.9	2180.7	2118.8	2043.8	1983.5
20°	2449.9	2449.9	2444.6	2425.5	2392.2	2354.1	2296.4	2237.4	2158.9	2083.3	2015.4
22.5°	2478.5	2480.4	2474.1	2458.3	2428.4	2391.2	2342.0	2282.2	2201.2	2116.1	2032.0
25°	2439.2	2450.5	2451.7	2447.5	2438.6	2416.0	2373.7	2312.4	2239.8	2147.5	2057.0
27.5°	2239.5	2253.8	2266.2	2286.8	2314.2	2328.5	2330.4	2299.2	2235.8	2147.1	2056.0
30°	2040.4	2052.3	2091.0	2141.6	2180.8	2216.6	2247.6	2255.8	2220.2	2140.4	2044.5
32.5°	1819.5	1835.7	1874.3	1928.7	1994.2	2054.7	2124.2	2159.6	2158.7	2110.8	2022.1
35°	1502.4	1514.2	1550.0	1607.1	1685.7	1775.6	1885.7	1971.3	2029.6	2025.5	1971.3
37.5°	1211.6	1225.0	1261.1	1308.5	1384.7	1496.0	1602.6	1720.6	1828.5	1889.1	1871.0
40°	1053.5	1054.1	1089.3	1138.1	1209.4	1306.5	1422.5	1553.5	1673.7	1771.9	1791.0
42.5°	928.8	928.8	952.1	1004.7	1056.2	1147.5	1258.3	1388.3	1529.0	1642.4	1692.9
45°	767.8	773.2	792.2	823.8	864.3	941.6	1030.3	1151.2	1308.9	1443.4	1527.3
47.5°	650.2	658.1	670.2	695.9	728.1	779.7	853.1	961.7	1089.9	1237.9	1357.4
50°	589.3	590.5	605.9	620.2	648.2	689.2	753.5	844.0	961.8	1104.1	1236.8
52.5°	536.9	536.7	546.0	564.0	586.8	618.8	670.7	753.0	857.6	985.1	1122.1
55°	458.3	461.3	468.5	482.7	500.0	522.6	563.7	625.6	707.7	816.7	941.1
57.5°	398.6	400.1	405.7	411.7	427.6	444.0	474.8	517.8	587.1	676.3	792.2
60°	359.5	360.1	361.9	370.8	383.3	398.8	419.7	455.9	514.3	595.8	687.5
62.5°	321.4	322.4	325.2	331.7	341.4	352.1	373.9	403.1	451.4	521.1	603.6
65°	267.9	268.5	272.6	275.0	282.8	292.2	308.3	328.0	361.3	419.7	482.2
67.5°	223.8	223.8	224.0	227.2	232.6	238.9	248.6	264.2	289.4	325.2	380.3
70°	195.2	195.2	196.4	198.2	201.2	206.6	211.9	223.8	242.3	271.4	313.7
72.5°	168.6	169.0	170.2	170.6	172.1	176.5	180.5	188.1	201.8	223.8	258.0
75°	123.8	125.6	128.5	131.0	133.9	133.4	137.5	142.2	146.5	159.5	179.2
77.5°	92.1	91.2	91.5	93.6	93.9	94.5	97.5	101.2	104.3	110.5	117.5
80°	70.3	70.3	72.0	72.6	72.0	72.6	75.6	77.4	78.6	80.9	87.5
82.5°	53.1	54.1	53.5	54.1	54.4	55.0	57.5	57.9	59.1	60.0	62.8
85°	29.8	30.4	30.9	29.8	29.8	29.8	30.9	31.5	32.7	32.1	33.3
87.5°	14.6	13.9	14.4	14.3	14.7	14.1	14.5	15.2	14.1	14.4	14.1
90°	20.2	19.9	19.6	19.3	19.0	18.4	17.5	16.6	15.7	14.8	13.6
92.5°	18.6	18.5	18.4	18.4	18.3	17.8	17.0	16.1	15.2	14.3	13.1
95°	19.5	19.4	19.2	19.1	18.9	18.4	17.5	16.6	15.7	14.8	14.6
97.5°	18.9	18.7	18.5	18.4	18.3	18.2	18.1	18.0	17.8	17.7	34.4
100°	18.9	18.7	18.5	18.4	18.3	19.5	22.0	24.5	27.0	29.6	50.3
102.5°	19.4	19.4	19.3	19.3	19.3	33.0	60.4	87.8	115.3	142.8	145.4
105°	191.8	197.3	202.6	208.0	213.4	215.4	214.0	212.8	211.4	210.0	209.3
107.5°	267.4	266.8	266.2	265.7	265.1	264.5	263.8	263.2	262.5	261.9	260.9
110°	300.2	299.8	299.4	298.9	298.4	298.1	297.8	297.5	297.2	296.9	296.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	333.1	332.5	332.0	331.4	330.8	330.5	330.6	330.7	330.8	330.8	330.4
115°	381.1	381.1	381.1	381.1	381.1	380.9	380.6	380.3	380.0	379.7	379.9
117.5°	429.8	429.8	429.9	430.0	430.0	430.1	430.2	430.2	430.2	430.3	430.0
120°	460.5	460.8	461.1	461.4	461.7	461.7	461.4	461.1	460.8	460.5	460.6
122.5°	490.6	490.9	491.2	491.5	491.8	491.9	491.7	491.5	491.4	491.2	490.9
125°	535.9	535.7	535.5	535.5	535.3	534.9	534.5	534.1	533.6	533.2	533.5
127.5°	575.6	575.8	575.8	575.9	576.1	576.2	576.3	576.4	576.4	576.5	575.8
130°	602.5	602.5	602.5	602.5	602.5	602.4	602.3	602.2	602.0	601.8	601.4
132.5°	627.3	627.4	627.5	627.7	627.8	627.8	627.6	627.5	627.3	627.2	626.5
135°	664.4	664.2	663.8	663.6	663.2	663.0	662.6	662.4	662.0	661.8	661.2
137.5°	696.2	696.3	696.4	696.5	696.5	696.5	696.1	695.8	695.5	695.2	694.5
140°	718.3	718.2	718.0	717.9	717.7	717.4	717.0	716.5	716.1	715.6	715.3
142.5°	736.6	736.6	736.6	736.5	736.5	736.3	736.0	735.6	735.4	735.0	734.9
145°	764.7	764.5	764.1	763.9	763.5	763.4	763.2	763.0	762.9	762.8	762.8
147.5°	788.1	787.9	787.7	787.6	787.5	787.3	787.2	787.1	787.0	786.9	787.0
150°	803.1	803.0	802.8	802.7	802.5	802.5	802.5	802.5	802.5	802.5	802.6
152.5°	816.1	816.1	816.2	816.3	816.4	816.3	816.1	815.9	815.6	815.4	815.6
155°	833.4	833.9	834.3	834.7	835.3	835.2	834.6	834.0	833.4	832.8	833.2
157.5°	848.0	848.8	849.5	850.3	851.1	851.1	850.3	849.5	848.8	848.0	848.5
160°	857.6	858.6	859.5	860.4	861.3	861.3	860.4	859.5	858.6	857.6	857.8
162.5°	865.2	866.3	867.2	868.2	869.3	869.4	868.4	867.5	866.7	865.7	865.9
165°	875.8	877.2	878.6	879.9	881.2	881.3	880.1	878.9	877.7	876.5	876.5
167.5°	883.8	885.3	886.7	888.3	889.8	889.8	888.6	887.3	885.9	884.6	884.7
170°	888.6	890.1	891.7	893.1	894.6	894.8	893.5	892.3	891.1	890.0	889.8
172.5°	891.3	892.9	894.6	896.2	897.8	898.0	896.8	895.6	894.4	893.2	893.0
175°	894.7	896.5	898.3	900.1	901.9	902.1	900.8	899.4	898.0	896.7	896.6
177.5°	896.8	898.3	899.7	901.1	902.6	902.8	901.9	901.0	899.9	899.0	898.8
180°	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3
2.5°	1522.1	1515.4	1512.1	1504.4	1495.4	1490.6	1486.3	1480.1	1472.1	1463.5	1457.3
5°	1599.3	1585.0	1567.2	1545.8	1526.7	1508.3	1492.2	1476.1	1457.7	1438.6	1419.6
7.5°	1678.6	1650.5	1620.1	1585.0	1550.9	1519.8	1491.3	1463.9	1432.9	1405.2	1379.9
10°	1733.9	1695.7	1653.5	1608.9	1564.2	1525.5	1487.5	1452.9	1414.8	1380.9	1352.3
12.5°	1778.7	1733.9	1683.0	1627.5	1573.7	1527.0	1483.2	1438.1	1394.8	1358.1	1319.9
15°	1852.9	1791.6	1723.1	1656.5	1586.8	1523.1	1464.2	1411.9	1362.4	1310.7	1274.4
17.5°	1903.9	1831.3	1748.0	1667.9	1585.6	1510.5	1442.5	1380.2	1323.2	1270.3	1227.1
20°	1934.4	1854.1	1761.9	1670.8	1578.5	1498.1	1425.0	1355.9	1297.0	1239.8	1195.2
22.5°	1951.5	1862.7	1761.9	1666.5	1570.9	1483.8	1403.5	1331.6	1267.5	1210.3	1160.9
25°	1957.1	1861.8	1758.9	1649.3	1544.5	1452.3	1369.0	1291.0	1219.6	1162.4	1110.1
27.5°	1949.5	1837.3	1731.8	1619.5	1511.4	1414.1	1326.6	1244.7	1173.2	1111.9	1058.2
30°	1938.0	1817.7	1704.7	1588.0	1478.5	1385.1	1292.8	1214.3	1139.8	1076.2	1022.0
32.5°	1913.2	1794.0	1672.3	1552.8	1441.8	1345.6	1258.0	1179.0	1106.0	1040.9	983.4
35°	1864.2	1743.4	1611.3	1488.7	1379.7	1279.7	1197.6	1121.4	1051.7	982.1	921.4
37.5°	1799.6	1676.1	1544.7	1410.4	1301.4	1206.9	1131.6	1060.1	992.1	928.5	861.3
40°	1738.6	1626.1	1490.4	1357.1	1245.2	1154.1	1084.5	1019.6	951.1	888.0	820.8
42.5°	1664.8	1569.0	1431.8	1298.0	1187.6	1099.8	1034.9	971.5	909.2	848.1	777.9
45°	1541.6	1469.0	1340.4	1211.9	1100.5	1013.7	954.2	898.2	843.4	785.1	719.0
47.5°	1400.4	1351.3	1240.3	1108.6	1005.6	927.5	870.0	824.2	777.9	719.6	661.7
50°	1302.3	1270.7	1163.6	1043.4	945.2	873.1	814.2	771.4	732.7	676.7	625.0
52.5°	1197.6	1180.8	1090.3	975.3	880.5	809.9	759.5	720.9	681.7	635.3	586.9
55°	1038.0	1047.0	970.2	870.8	781.5	722.0	676.1	644.0	610.7	571.4	533.9
57.5°	874.9	907.6	856.0	768.8	685.1	630.1	595.6	568.5	540.5	508.0	476.0
60°	777.3	804.7	775.6	698.8	625.6	574.4	542.3	521.4	493.4	463.6	439.3
62.5°	682.1	711.4	694.1	632.1	564.1	520.1	491.8	472.3	451.5	425.6	400.2
65°	562.5	581.5	573.2	530.4	482.2	444.6	418.4	404.2	385.1	366.1	343.5
67.5°	430.8	467.6	462.7	440.0	398.3	369.0	351.9	339.2	321.9	307.7	292.4
70°	354.1	388.1	387.4	369.0	346.4	319.0	307.1	296.4	280.9	267.3	254.8
72.5°	289.9	321.0	325.5	311.4	295.9	275.3	263.8	256.4	241.4	232.0	221.9
75°	202.9	225.6	231.5	231.5	224.4	213.7	203.5	198.8	188.1	179.8	173.8
77.5°	133.1	147.4	156.7	158.8	159.9	156.3	148.0	144.6	136.4	133.5	127.8
80°	94.0	103.6	114.3	117.9	120.8	119.7	116.1	113.7	106.0	103.0	100.6
82.5°	65.0	70.3	79.0	86.9	86.1	89.2	86.1	84.2	78.4	77.2	74.9
85°	33.9	34.5	35.7	41.1	44.1	45.2	45.8	44.6	42.9	42.9	38.7
87.5°	13.9	13.2	13.9	13.6	13.8	15.3	16.4	16.6	15.5	14.4	13.3
90°	12.4	11.2	10.0	8.6	7.0	5.3	3.7	2.0	3.7	5.3	7.0
92.5°	11.9	10.7	9.5	8.9	8.8	8.7	8.6	8.5	8.6	8.7	8.8
95°	14.6	14.4	14.2	16.7	21.8	26.9	31.9	37.0	31.9	26.9	21.8
97.5°	51.1	67.8	84.6	91.4	88.2	85.0	81.8	78.6	81.8	85.0	88.2
100°	70.9	91.5	112.2	121.1	118.5	115.8	113.1	110.4	113.1	115.8	118.5
102.5°	148.1	150.8	153.5	153.9	151.9	149.9	147.9	145.9	147.9	149.9	151.9
105°	208.5	207.8	207.1	206.2	205.3	204.4	203.5	202.6	203.5	204.4	205.3
107.5°	259.8	258.8	257.8	257.1	256.7	256.1	255.7	255.3	255.7	256.1	256.7
110°	295.1	294.2	293.3	292.7	292.1	291.7	291.3	290.8	291.3	291.7	292.1



TEST NUMBER: P332967-935

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	329.9	329.6	329.2	328.6	327.7	326.9	326.1	325.3	326.1	326.9	327.7
115°	380.0	380.1	380.3	380.1	379.7	379.3	378.8	378.3	378.8	379.3	379.7
117.5°	429.6	429.3	429.0	428.5	427.9	427.3	426.7	426.1	426.7	427.3	427.9
120°	460.8	460.9	461.1	460.8	460.3	459.7	459.1	458.5	459.1	459.7	460.3
122.5°	490.8	490.5	490.3	490.1	489.7	489.3	489.0	488.6	489.0	489.3	489.7
125°	533.8	534.1	534.3	534.3	533.6	533.0	532.4	531.8	532.4	533.0	533.6
127.5°	575.1	574.5	573.8	573.3	573.3	573.1	572.9	572.7	572.9	573.1	573.3
130°	601.0	600.5	600.0	599.8	599.6	599.4	599.3	599.2	599.3	599.4	599.6
132.5°	626.0	625.4	624.9	624.5	624.2	624.0	623.6	623.4	623.6	624.0	624.2
135°	660.6	660.0	659.4	659.2	659.3	659.4	659.6	659.8	659.6	659.4	659.3
137.5°	693.9	693.2	692.5	692.2	692.1	692.1	692.0	691.9	692.0	692.1	692.1
140°	715.1	714.7	714.5	714.1	713.9	713.5	713.3	712.9	713.3	713.5	713.9
142.5°	734.7	734.4	734.3	733.9	733.4	732.9	732.3	731.8	732.3	732.9	733.4
145°	762.8	762.8	762.8	762.5	762.1	761.6	761.2	760.7	761.2	761.6	762.1
147.5°	787.1	787.3	787.5	787.1	786.3	785.4	784.6	783.8	784.6	785.4	786.3
150°	802.8	802.9	803.1	802.8	802.3	801.7	801.1	800.5	801.1	801.7	802.3
152.5°	816.0	816.2	816.5	816.4	815.9	815.4	814.9	814.4	814.9	815.4	815.9
155°	833.6	834.1	834.6	834.7	834.6	834.4	834.2	834.1	834.2	834.4	834.6
157.5°	849.0	849.5	850.0	850.3	850.4	850.5	850.6	850.7	850.6	850.5	850.4
160°	858.0	858.2	858.2	858.6	859.0	859.5	859.9	860.4	859.9	859.5	859.0
162.5°	866.1	866.2	866.3	866.7	867.3	867.8	868.4	869.0	868.4	867.8	867.3
165°	876.5	876.5	876.5	876.9	877.6	878.4	879.2	879.9	879.2	878.4	877.6
167.5°	884.8	884.8	884.9	885.4	886.1	886.9	887.7	888.5	887.7	886.9	886.1
170°	889.7	889.5	889.4	889.8	890.6	891.6	892.4	893.4	892.4	891.6	890.6
172.5°	892.9	892.8	892.6	893.0	893.9	894.8	895.7	896.6	895.7	894.8	893.9
175°	896.4	896.3	896.1	896.5	897.4	898.3	899.1	900.1	899.1	898.3	897.4
177.5°	898.5	898.3	898.0	898.4	899.1	900.0	900.9	901.7	900.9	900.0	899.1
180°	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1



TEST NUMBER: P332967-935

CATALOG NUMBER: SA4XXRDIP-C1020D810U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3
2.5°	1450.6	1445.9	1439.7	1432.5	1424.0	1416.3	1413.1	1415.9	1417.3	1413.5	1413.1
5°	1406.5	1391.6	1379.7	1361.8	1347.6	1335.7	1327.3	1323.8	1324.9	1315.4	1313.0
7.5°	1356.8	1339.2	1319.7	1298.5	1278.8	1261.3	1252.1	1247.1	1237.0	1232.7	1225.5
10°	1324.9	1301.1	1282.1	1257.1	1234.5	1213.7	1203.5	1195.2	1185.1	1180.3	1170.2
12.5°	1292.1	1264.5	1243.5	1217.5	1194.5	1169.3	1159.7	1144.3	1128.4	1118.4	1105.4
15°	1245.8	1212.5	1186.9	1155.9	1128.5	1099.9	1074.4	1045.8	1035.1	1012.4	999.4
17.5°	1191.6	1157.8	1126.1	1084.6	1042.3	1006.9	979.6	952.2	935.8	921.4	914.7
20°	1155.9	1125.0	1080.9	1032.7	985.7	946.4	924.4	906.5	888.6	878.6	871.4
22.5°	1122.1	1082.5	1031.4	979.4	932.4	901.6	883.0	864.6	850.1	840.4	831.0
25°	1065.4	1013.7	959.5	900.0	867.8	841.0	820.8	805.9	797.0	784.5	779.7
27.5°	1007.2	944.5	884.8	844.7	811.2	786.8	769.1	757.9	746.7	738.7	732.5
30°	962.4	898.8	845.2	807.1	773.2	752.9	738.7	725.6	716.6	710.1	705.3
32.5°	918.2	854.5	809.5	768.5	741.8	722.0	706.8	697.0	690.0	681.5	678.6
35°	854.1	797.5	758.3	721.4	694.1	676.1	664.3	654.1	648.2	645.8	644.0
37.5°	792.6	746.3	704.0	673.8	649.4	635.3	621.3	616.3	612.3	608.0	609.8
40°	753.5	710.1	672.6	640.4	620.8	605.4	597.0	591.1	587.5	587.5	587.5
42.5°	719.7	677.3	640.7	611.9	592.2	579.1	569.9	564.8	563.7	563.2	566.0
45°	667.3	627.9	591.1	567.2	550.6	537.4	532.1	528.0	528.0	530.4	530.9
47.5°	615.2	578.4	548.8	522.1	506.9	498.7	494.0	491.9	492.1	494.5	497.2
50°	583.3	547.0	517.8	494.0	479.7	472.0	467.9	466.7	467.9	467.9	472.0
52.5°	548.5	516.1	487.3	467.4	451.2	443.9	441.6	440.0	440.7	442.6	444.4
55°	497.6	468.5	441.1	422.0	410.1	405.4	400.0	400.5	399.4	400.5	400.5
57.5°	446.5	420.3	394.9	379.8	369.3	362.4	356.5	358.2	356.5	356.2	355.2
60°	413.7	385.1	364.9	351.2	339.2	333.3	328.0	329.2	327.4	326.1	323.8
62.5°	378.0	354.1	334.8	321.7	312.1	305.2	299.9	298.7	294.5	290.5	285.2
65°	326.1	306.5	289.3	276.8	267.9	262.5	258.3	254.8	245.8	236.3	231.5
67.5°	275.9	261.7	245.6	235.0	227.7	220.7	212.8	206.6	198.3	193.1	190.1
70°	243.4	229.7	216.0	206.0	198.2	191.7	182.7	178.6	172.6	170.2	167.3
72.5°	212.5	199.8	187.0	177.9	169.6	164.5	157.5	153.3	150.7	149.7	146.8
75°	165.5	155.3	145.9	137.5	131.0	127.3	124.4	121.4	120.2	114.9	111.9
77.5°	120.7	114.1	108.1	102.1	97.5	95.1	89.4	85.9	83.9	81.5	80.8
80°	94.0	89.3	83.3	79.7	73.2	70.9	68.4	67.8	67.2	66.6	66.0
82.5°	70.7	66.0	60.0	57.9	56.1	54.7	53.2	52.6	52.0	52.3	52.3
85°	35.7	33.3	33.3	32.7	32.1	31.5	30.9	30.9	30.4	30.9	30.4
87.5°	13.6	13.4	13.7	13.0	13.7	13.9	13.6	13.8	14.5	13.7	13.8
90°	8.6	10.0	11.2	12.4	13.6	14.8	15.7	16.6	17.5	18.4	19.0
92.5°	8.9	9.5	10.7	11.9	13.1	14.3	15.2	16.1	17.0	17.8	18.3
95°	16.7	14.2	14.4	14.6	14.6	14.8	15.7	16.6	17.5	18.4	18.9
97.5°	91.4	84.6	67.8	51.1	34.4	17.7	17.8	18.0	18.1	18.2	18.3
100°	121.1	112.2	91.5	70.9	50.3	29.6	27.0	24.5	22.0	19.5	18.3
102.5°	153.9	153.5	150.8	148.1	145.4	142.8	115.3	87.8	60.4	33.0	19.3
105°	206.2	207.1	207.8	208.5	209.3	210.0	211.4	212.8	214.0	215.4	213.4
107.5°	257.1	257.8	258.8	259.8	260.9	261.9	262.5	263.2	263.8	264.5	265.1
110°	292.7	293.3	294.2	295.1	296.0	296.9	297.2	297.5	297.8	298.1	298.4



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	328.6	329.2	329.6	329.9	330.4	330.8	330.8	330.7	330.6	330.5	330.8
115°	380.1	380.3	380.1	380.0	379.9	379.7	380.0	380.3	380.6	380.9	381.1
117.5°	428.5	429.0	429.3	429.6	430.0	430.3	430.2	430.2	430.2	430.1	430.0
120°	460.8	461.1	460.9	460.8	460.6	460.5	460.8	461.1	461.4	461.7	461.7
122.5°	490.1	490.3	490.5	490.8	490.9	491.2	491.4	491.5	491.7	491.9	491.8
125°	534.3	534.3	534.1	533.8	533.5	533.2	533.6	534.1	534.5	534.9	535.3
127.5°	573.3	573.8	574.5	575.1	575.8	576.5	576.4	576.4	576.3	576.2	576.1
130°	599.8	600.0	600.5	601.0	601.4	601.8	602.0	602.2	602.3	602.4	602.5
132.5°	624.5	624.9	625.4	626.0	626.5	627.2	627.3	627.5	627.6	627.8	627.8
135°	659.2	659.4	660.0	660.6	661.2	661.8	662.0	662.4	662.6	663.0	663.2
137.5°	692.2	692.5	693.2	693.9	694.5	695.2	695.5	695.8	696.1	696.5	696.5
140°	714.1	714.5	714.7	715.1	715.3	715.6	716.1	716.5	717.0	717.4	717.7
142.5°	733.9	734.3	734.4	734.7	734.9	735.0	735.4	735.6	736.0	736.3	736.5
145°	762.5	762.8	762.8	762.8	762.8	762.8	762.9	763.0	763.2	763.4	763.5
147.5°	787.1	787.5	787.3	787.1	787.0	786.9	787.0	787.1	787.2	787.3	787.5
150°	802.8	803.1	802.9	802.8	802.6	802.5	802.5	802.5	802.5	802.5	802.5
152.5°	816.4	816.5	816.2	816.0	815.6	815.4	815.6	815.9	816.1	816.3	816.4
155°	834.7	834.6	834.1	833.6	833.2	832.8	833.4	834.0	834.6	835.2	835.3
157.5°	850.3	850.0	849.5	849.0	848.5	848.0	848.8	849.5	850.3	851.1	851.1
160°	858.6	858.2	858.2	858.0	857.8	857.6	858.6	859.5	860.4	861.3	861.3
162.5°	866.7	866.3	866.2	866.1	865.9	865.7	866.7	867.5	868.4	869.4	869.3
165°	876.9	876.5	876.5	876.5	876.5	876.5	877.7	878.9	880.1	881.3	881.2
167.5°	885.4	884.9	884.8	884.8	884.7	884.6	885.9	887.3	888.6	889.8	889.8
170°	889.8	889.4	889.5	889.7	889.8	890.0	891.1	892.3	893.5	894.8	894.6
172.5°	893.0	892.6	892.8	892.9	893.0	893.2	894.4	895.6	896.8	898.0	897.8
175°	896.5	896.1	896.3	896.4	896.6	896.7	898.0	899.4	900.8	902.1	901.9
177.5°	898.4	898.0	898.3	898.5	898.8	899.0	899.9	901.0	901.9	902.8	902.6
180°	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1



TEST NUMBER: P332967-935

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3
2.5°	1410.1	1411.1	1407.8	1406.9	1407.8	1411.1	1410.1	1413.1	1413.5	1417.3	1415.9
5°	1308.3	1307.1	1304.1	1304.7	1304.1	1307.1	1308.3	1313.0	1315.4	1324.9	1323.8
7.5°	1221.2	1216.5	1217.8	1213.1	1217.8	1216.5	1221.2	1225.5	1232.7	1237.0	1247.1
10°	1167.8	1161.2	1155.9	1151.2	1155.9	1161.2	1167.8	1170.2	1180.3	1185.1	1195.2
12.5°	1094.9	1089.3	1082.1	1083.6	1082.1	1089.3	1094.9	1105.4	1118.4	1128.4	1144.3
15°	991.6	982.7	968.5	970.2	968.5	982.7	991.6	999.4	1012.4	1035.1	1045.8
17.5°	904.1	904.2	897.7	899.2	897.7	904.2	904.1	914.7	921.4	935.8	952.2
20°	858.9	854.7	855.3	853.5	855.3	854.7	858.9	871.4	878.6	888.6	906.5
22.5°	827.5	822.3	818.2	814.5	818.2	822.3	827.5	831.0	840.4	850.1	864.6
25°	774.4	770.8	765.4	764.2	765.4	770.8	774.4	779.7	784.5	797.0	805.9
27.5°	727.7	727.0	724.9	722.1	724.9	727.0	727.7	732.5	738.7	746.7	757.9
30°	700.6	699.4	698.2	696.4	698.2	699.4	700.6	705.3	710.1	716.6	725.6
32.5°	676.3	675.5	674.3	674.5	674.3	675.5	676.3	678.6	681.5	690.0	697.0
35°	641.6	641.0	639.9	639.3	639.9	641.0	641.6	644.0	645.8	648.2	654.1
37.5°	609.2	610.8	610.1	609.9	610.1	610.8	609.2	609.8	608.0	612.3	616.3
40°	586.9	587.5	588.7	588.1	588.7	587.5	586.9	587.5	587.5	587.5	591.1
42.5°	568.3	568.4	570.1	568.1	570.1	568.4	568.3	566.0	563.2	563.7	564.8
45°	535.1	538.6	538.0	538.0	538.0	538.6	535.1	530.9	530.4	528.0	528.0
47.5°	498.8	501.9	502.7	502.6	502.7	501.9	498.8	497.2	494.5	492.1	491.9
50°	475.0	473.8	475.6	475.0	475.6	473.8	475.0	472.0	467.9	467.9	466.7
52.5°	445.9	446.2	446.1	445.5	446.1	446.2	445.9	444.4	442.6	440.7	440.0
55°	401.1	401.7	400.5	401.1	400.5	401.7	401.1	400.5	400.5	399.4	400.5
57.5°	352.6	349.7	350.9	349.5	350.9	349.7	352.6	355.2	356.2	356.5	358.2
60°	317.9	313.1	311.9	309.5	311.9	313.1	317.9	323.8	326.1	327.4	329.2
62.5°	278.8	275.4	271.4	273.3	271.4	275.4	278.8	285.2	290.5	294.5	298.7
65°	226.8	224.4	222.6	225.0	222.6	224.4	226.8	231.5	236.3	245.8	254.8
67.5°	187.7	186.4	186.4	185.2	186.4	186.4	187.7	190.1	193.1	198.3	206.6
70°	167.3	165.5	165.5	164.3	165.5	165.5	167.3	167.3	170.2	172.6	178.6
72.5°	146.3	144.5	145.0	144.3	145.0	144.5	146.3	146.8	149.7	150.7	153.3
75°	108.3	105.4	105.4	106.0	105.4	105.4	108.3	111.9	114.9	120.2	121.4
77.5°	80.8	80.2	81.1	80.0	81.1	80.2	80.8	80.8	81.5	83.9	85.9
80°	66.0	65.4	64.9	66.6	64.9	65.4	66.0	66.0	66.6	67.2	67.8
82.5°	51.3	51.2	51.1	53.3	51.1	51.2	51.3	52.3	52.3	52.0	52.6
85°	30.9	29.8	30.9	29.8	30.9	29.8	30.9	30.4	30.9	30.4	30.9
87.5°	14.8	14.4	13.9	14.6	13.9	14.4	14.8	13.8	13.7	14.5	13.8
90°	19.3	19.6	19.9	20.2	19.9	19.6	19.3	19.0	18.4	17.5	16.6
92.5°	18.4	18.4	18.5	18.6	18.5	18.4	18.4	18.3	17.8	17.0	16.1
95°	19.1	19.2	19.4	19.5	19.4	19.2	19.1	18.9	18.4	17.5	16.6
97.5°	18.4	18.5	18.7	18.9	18.7	18.5	18.4	18.3	18.2	18.1	18.0
100°	18.4	18.5	18.7	18.9	18.7	18.5	18.4	18.3	19.5	22.0	24.5
102.5°	19.3	19.3	19.4	19.4	19.4	19.3	19.3	19.3	33.0	60.4	87.8
105°	208.0	202.6	197.3	191.8	197.3	202.6	208.0	213.4	215.4	214.0	212.8
107.5°	265.7	266.2	266.8	267.4	266.8	266.2	265.7	265.1	264.5	263.8	263.2
110°	298.9	299.4	299.8	300.2	299.8	299.4	298.9	298.4	298.1	297.8	297.5



TEST NUMBER: P332967-935

CATALOG NUMBER: SA4XXRDIP-C1020D810U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	331.4	332.0	332.5	333.1	332.5	332.0	331.4	330.8	330.5	330.6	330.7
115°	381.1	381.1	381.1	381.1	381.1	381.1	381.1	381.1	380.9	380.6	380.3
117.5°	430.0	429.9	429.8	429.8	429.8	429.9	430.0	430.0	430.1	430.2	430.2
120°	461.4	461.1	460.8	460.5	460.8	461.1	461.4	461.7	461.7	461.4	461.1
122.5°	491.5	491.2	490.9	490.6	490.9	491.2	491.5	491.8	491.9	491.7	491.5
125°	535.5	535.5	535.7	535.9	535.7	535.5	535.5	535.3	534.9	534.5	534.1
127.5°	575.9	575.8	575.8	575.6	575.8	575.8	575.9	576.1	576.2	576.3	576.4
130°	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.4	602.3	602.2
132.5°	627.7	627.5	627.4	627.3	627.4	627.5	627.7	627.8	627.8	627.6	627.5
135°	663.6	663.8	664.2	664.4	664.2	663.8	663.6	663.2	663.0	662.6	662.4
137.5°	696.5	696.4	696.3	696.2	696.3	696.4	696.5	696.5	696.5	696.1	695.8
140°	717.9	718.0	718.2	718.3	718.2	718.0	717.9	717.7	717.4	717.0	716.5
142.5°	736.5	736.6	736.6	736.6	736.6	736.6	736.5	736.5	736.3	736.0	735.6
145°	763.9	764.1	764.5	764.7	764.5	764.1	763.9	763.5	763.4	763.2	763.0
147.5°	787.6	787.7	787.9	788.1	787.9	787.7	787.6	787.5	787.3	787.2	787.1
150°	802.7	802.8	803.0	803.1	803.0	802.8	802.7	802.5	802.5	802.5	802.5
152.5°	816.3	816.2	816.1	816.1	816.1	816.2	816.3	816.4	816.3	816.1	815.9
155°	834.7	834.3	833.9	833.4	833.9	834.3	834.7	835.3	835.2	834.6	834.0
157.5°	850.3	849.5	848.8	848.0	848.8	849.5	850.3	851.1	851.1	850.3	849.5
160°	860.4	859.5	858.6	857.6	858.6	859.5	860.4	861.3	861.3	860.4	859.5
162.5°	868.2	867.2	866.3	865.2	866.3	867.2	868.2	869.3	869.4	868.4	867.5
165°	879.9	878.6	877.2	875.8	877.2	878.6	879.9	881.2	881.3	880.1	878.9
167.5°	888.3	886.7	885.3	883.8	885.3	886.7	888.3	889.8	889.8	888.6	887.3
170°	893.1	891.7	890.1	888.6	890.1	891.7	893.1	894.6	894.8	893.5	892.3
172.5°	896.2	894.6	892.9	891.3	892.9	894.6	896.2	897.8	898.0	896.8	895.6
175°	900.1	898.3	896.5	894.7	896.5	898.3	900.1	901.9	902.1	900.8	899.4
177.5°	901.1	899.7	898.3	896.8	898.3	899.7	901.1	902.6	902.8	901.9	901.0
180°	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1



TEST NUMBER: P332967-935

CATALOG NUMBER: SA4XXRDIP-C1020D810U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3
2.5°	1413.1	1416.3	1424.0	1432.5	1439.7	1445.9	1450.6	1457.3	1463.5	1472.1	1480.1
5°	1327.3	1335.7	1347.6	1361.8	1379.7	1391.6	1406.5	1419.6	1438.6	1457.7	1476.1
7.5°	1252.1	1261.3	1278.8	1298.5	1319.7	1339.2	1356.8	1379.9	1405.2	1432.9	1463.9
10°	1203.5	1213.7	1234.5	1257.1	1282.1	1301.1	1324.9	1352.3	1380.9	1414.8	1452.9
12.5°	1159.7	1169.3	1194.5	1217.5	1243.5	1264.5	1292.1	1319.9	1358.1	1394.8	1438.1
15°	1074.4	1099.9	1128.5	1155.9	1186.9	1212.5	1245.8	1274.4	1310.7	1362.4	1411.9
17.5°	979.6	1006.9	1042.3	1084.6	1126.1	1157.8	1191.6	1227.1	1270.3	1323.2	1380.2
20°	924.4	946.4	985.7	1032.7	1080.9	1125.0	1155.9	1195.2	1239.8	1297.0	1355.9
22.5°	883.0	901.6	932.4	979.4	1031.4	1082.5	1122.1	1160.9	1210.3	1267.5	1331.6
25°	820.8	841.0	867.8	900.0	959.5	1013.7	1065.4	1110.1	1162.4	1219.6	1291.0
27.5°	769.1	786.8	811.2	844.7	884.8	944.5	1007.2	1058.2	1111.9	1173.2	1244.7
30°	738.7	752.9	773.2	807.1	845.2	898.8	962.4	1022.0	1076.2	1139.8	1214.3
32.5°	706.8	722.0	741.8	768.5	809.5	854.5	918.2	983.4	1040.9	1106.0	1179.0
35°	664.3	676.1	694.1	721.4	758.3	797.5	854.1	921.4	982.1	1051.7	1121.4
37.5°	621.3	635.3	649.4	673.8	704.0	746.3	792.6	861.3	928.5	992.1	1060.1
40°	597.0	605.4	620.8	640.4	672.6	710.1	753.5	820.8	888.0	951.1	1019.6
42.5°	569.9	579.1	592.2	611.9	640.7	677.3	719.7	777.9	848.1	909.2	971.5
45°	532.1	537.4	550.6	567.2	591.1	627.9	667.3	719.0	785.1	843.4	898.2
47.5°	494.0	498.7	506.9	522.1	548.8	578.4	615.2	661.7	719.6	777.9	824.2
50°	467.9	472.0	479.7	494.0	517.8	547.0	583.3	625.0	676.7	732.7	771.4
52.5°	441.6	443.9	451.2	467.4	487.3	516.1	548.5	586.9	635.3	681.7	720.9
55°	400.0	405.4	410.1	422.0	441.1	468.5	497.6	533.9	571.4	610.7	644.0
57.5°	356.5	362.4	369.3	379.8	394.9	420.3	446.5	476.0	508.0	540.5	568.5
60°	328.0	333.3	339.2	351.2	364.9	385.1	413.7	439.3	463.6	493.4	521.4
62.5°	299.9	305.2	312.1	321.7	334.8	354.1	378.0	400.2	425.6	451.5	472.3
65°	258.3	262.5	267.9	276.8	289.3	306.5	326.1	343.5	366.1	385.1	404.2
67.5°	212.8	220.7	227.7	235.0	245.6	261.7	275.9	292.4	307.7	321.9	339.2
70°	182.7	191.7	198.2	206.0	216.0	229.7	243.4	254.8	267.3	280.9	296.4
72.5°	157.5	164.5	169.6	177.9	187.0	199.8	212.5	221.9	232.0	241.4	256.4
75°	124.4	127.3	131.0	137.5	145.9	155.3	165.5	173.8	179.8	188.1	198.8
77.5°	89.4	95.1	97.5	102.1	108.1	114.1	120.7	127.8	133.5	136.4	144.6
80°	68.4	70.9	73.2	79.7	83.3	89.3	94.0	100.6	103.0	106.0	113.7
82.5°	53.2	54.7	56.1	57.9	60.0	66.0	70.7	74.9	77.2	78.4	84.2
85°	30.9	31.5	32.1	32.7	33.3	33.3	35.7	38.7	42.9	42.9	44.6
87.5°	13.6	13.9	13.7	13.0	13.7	13.4	13.6	13.3	14.4	15.5	16.6
90°	15.7	14.8	13.6	12.4	11.2	10.0	8.6	7.0	5.3	3.7	2.0
92.5°	15.2	14.3	13.1	11.9	10.7	9.5	8.9	8.8	8.7	8.6	8.5
95°	15.7	14.8	14.6	14.6	14.4	14.2	16.7	21.8	26.9	31.9	37.0
97.5°	17.8	17.7	34.4	51.1	67.8	84.6	91.4	88.2	85.0	81.8	78.6
100°	27.0	29.6	50.3	70.9	91.5	112.2	121.1	118.5	115.8	113.1	110.4
102.5°	115.3	142.8	145.4	148.1	150.8	153.5	153.9	151.9	149.9	147.9	145.9
105°	211.4	210.0	209.3	208.5	207.8	207.1	206.2	205.3	204.4	203.5	202.6
107.5°	262.5	261.9	260.9	259.8	258.8	257.8	257.1	256.7	256.1	255.7	255.3
110°	297.2	296.9	296.0	295.1	294.2	293.3	292.7	292.1	291.7	291.3	290.8



TEST NUMBER: P332967-935

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	330.8	330.8	330.4	329.9	329.6	329.2	328.6	327.7	326.9	326.1	325.3
115°	380.0	379.7	379.9	380.0	380.1	380.3	380.1	379.7	379.3	378.8	378.3
117.5°	430.2	430.3	430.0	429.6	429.3	429.0	428.5	427.9	427.3	426.7	426.1
120°	460.8	460.5	460.6	460.8	460.9	461.1	460.8	460.3	459.7	459.1	458.5
122.5°	491.4	491.2	490.9	490.8	490.5	490.3	490.1	489.7	489.3	489.0	488.6
125°	533.6	533.2	533.5	533.8	534.1	534.3	534.3	533.6	533.0	532.4	531.8
127.5°	576.4	576.5	575.8	575.1	574.5	573.8	573.3	573.3	573.1	572.9	572.7
130°	602.0	601.8	601.4	601.0	600.5	600.0	599.8	599.6	599.4	599.3	599.2
132.5°	627.3	627.2	626.5	626.0	625.4	624.9	624.5	624.2	624.0	623.6	623.4
135°	662.0	661.8	661.2	660.6	660.0	659.4	659.2	659.3	659.4	659.6	659.8
137.5°	695.5	695.2	694.5	693.9	693.2	692.5	692.2	692.1	692.1	692.0	691.9
140°	716.1	715.6	715.3	715.1	714.7	714.5	714.1	713.9	713.5	713.3	712.9
142.5°	735.4	735.0	734.9	734.7	734.4	734.3	733.9	733.4	732.9	732.3	731.8
145°	762.9	762.8	762.8	762.8	762.8	762.8	762.5	762.1	761.6	761.2	760.7
147.5°	787.0	786.9	787.0	787.1	787.3	787.5	787.1	786.3	785.4	784.6	783.8
150°	802.5	802.5	802.6	802.8	802.9	803.1	802.8	802.3	801.7	801.1	800.5
152.5°	815.6	815.4	815.6	816.0	816.2	816.5	816.4	815.9	815.4	814.9	814.4
155°	833.4	832.8	833.2	833.6	834.1	834.6	834.7	834.6	834.4	834.2	834.1
157.5°	848.8	848.0	848.5	849.0	849.5	850.0	850.3	850.4	850.5	850.6	850.7
160°	858.6	857.6	857.8	858.0	858.2	858.2	858.6	859.0	859.5	859.9	860.4
162.5°	866.7	865.7	865.9	866.1	866.2	866.3	866.7	867.3	867.8	868.4	869.0
165°	877.7	876.5	876.5	876.5	876.5	876.5	876.9	877.6	878.4	879.2	879.9
167.5°	885.9	884.6	884.7	884.8	884.8	884.9	885.4	886.1	886.9	887.7	888.5
170°	891.1	890.0	889.8	889.7	889.5	889.4	889.8	890.6	891.6	892.4	893.4
172.5°	894.4	893.2	893.0	892.9	892.8	892.6	893.0	893.9	894.8	895.7	896.6
175°	898.0	896.7	896.6	896.4	896.3	896.1	896.5	897.4	898.3	899.1	900.1
177.5°	899.9	899.0	898.8	898.5	898.3	898.0	898.4	899.1	900.0	900.9	901.7
180°	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1



TEST NUMBER: P332967-935

CATALOG NUMBER: SA4XXRDIP-C1020D810U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3
2.5°	1486.3	1490.6	1495.4	1504.4	1512.1	1515.4	1522.1	1526.8	1525.4	1532.1	1543.5
5°	1492.2	1508.3	1526.7	1545.8	1567.2	1585.0	1599.3	1613.6	1625.0	1638.7	1658.9
7.5°	1491.3	1519.8	1550.9	1585.0	1620.1	1650.5	1678.6	1707.2	1732.5	1760.3	1796.6
10°	1487.5	1525.5	1564.2	1608.9	1653.5	1695.7	1733.9	1769.5	1803.5	1839.8	1885.7
12.5°	1483.2	1527.0	1573.7	1627.5	1683.0	1733.9	1778.7	1830.1	1872.5	1919.3	1972.3
15°	1464.2	1523.1	1586.8	1656.5	1723.1	1791.6	1852.9	1916.0	1974.9	2030.8	2097.6
17.5°	1442.5	1510.5	1585.6	1667.9	1748.0	1831.3	1903.9	1983.5	2043.8	2118.8	2180.7
20°	1425.0	1498.1	1578.5	1670.8	1761.9	1854.1	1934.4	2015.4	2083.3	2158.9	2237.4
22.5°	1403.5	1483.8	1570.9	1666.5	1761.9	1862.7	1951.5	2032.0	2116.1	2201.2	2282.2
25°	1369.0	1452.3	1544.5	1649.3	1758.9	1861.8	1957.1	2057.0	2147.5	2239.8	2312.4
27.5°	1326.6	1414.1	1511.4	1619.5	1731.8	1837.3	1949.5	2056.0	2147.1	2235.8	2299.2
30°	1292.8	1385.1	1478.5	1588.0	1704.7	1817.7	1938.0	2044.5	2140.4	2220.2	2255.8
32.5°	1258.0	1345.6	1441.8	1552.8	1672.3	1794.0	1913.2	2022.1	2110.8	2158.7	2159.6
35°	1197.6	1279.7	1379.7	1488.7	1611.3	1743.4	1864.2	1971.3	2025.5	2029.6	1971.3
37.5°	1131.6	1206.9	1301.4	1410.4	1544.7	1676.1	1799.6	1871.0	1889.1	1828.5	1720.6
40°	1084.5	1154.1	1245.2	1357.1	1490.4	1626.1	1738.6	1791.0	1771.9	1673.7	1553.5
42.5°	1034.9	1099.8	1187.6	1298.0	1431.8	1569.0	1664.8	1692.9	1642.4	1529.0	1388.3
45°	954.2	1013.7	1100.5	1211.9	1340.4	1469.0	1541.6	1527.3	1443.4	1308.9	1151.2
47.5°	870.0	927.5	1005.6	1108.6	1240.3	1351.3	1400.4	1357.4	1237.9	1089.9	961.7
50°	814.2	873.1	945.2	1043.4	1163.6	1270.7	1302.3	1236.8	1104.1	961.8	844.0
52.5°	759.5	809.9	880.5	975.3	1090.3	1180.8	1197.6	1122.1	985.1	857.6	753.0
55°	676.1	722.0	781.5	870.8	970.2	1047.0	1038.0	941.1	816.7	707.7	625.6
57.5°	595.6	630.1	685.1	768.8	856.0	907.6	874.9	792.2	676.3	587.1	517.8
60°	542.3	574.4	625.6	698.8	775.6	804.7	777.3	687.5	595.8	514.3	455.9
62.5°	491.8	520.1	564.1	632.1	694.1	711.4	682.1	603.6	521.1	451.4	403.1
65°	418.4	444.6	482.2	530.4	573.2	581.5	562.5	482.2	419.7	361.3	328.0
67.5°	351.9	369.0	398.3	440.0	462.7	467.6	430.8	380.3	325.2	289.4	264.2
70°	307.1	319.0	346.4	369.0	387.4	388.1	354.1	313.7	271.4	242.3	223.8
72.5°	263.8	275.3	295.9	311.4	325.5	321.0	289.9	258.0	223.8	201.8	188.1
75°	203.5	213.7	224.4	231.5	231.5	225.6	202.9	179.2	159.5	146.5	142.2
77.5°	148.0	156.3	159.9	158.8	156.7	147.4	133.1	117.5	110.5	104.3	101.2
80°	116.1	119.7	120.8	117.9	114.3	103.6	94.0	87.5	80.9	78.6	77.4
82.5°	86.1	89.2	86.1	86.9	79.0	70.3	65.0	62.8	60.0	59.1	57.9
85°	45.8	45.2	44.1	41.1	35.7	34.5	33.9	33.3	32.1	32.7	31.5
87.5°	16.4	15.3	13.8	13.6	13.9	13.2	13.9	14.1	14.4	14.1	15.2
90°	3.7	5.3	7.0	8.6	10.0	11.2	12.4	13.6	14.8	15.7	16.6
92.5°	8.6	8.7	8.8	8.9	9.5	10.7	11.9	13.1	14.3	15.2	16.1
95°	31.9	26.9	21.8	16.7	14.2	14.4	14.6	14.6	14.8	15.7	16.6
97.5°	81.8	85.0	88.2	91.4	84.6	67.8	51.1	34.4	17.7	17.8	18.0
100°	113.1	115.8	118.5	121.1	112.2	91.5	70.9	50.3	29.6	27.0	24.5
102.5°	147.9	149.9	151.9	153.9	153.5	150.8	148.1	145.4	142.8	115.3	87.8
105°	203.5	204.4	205.3	206.2	207.1	207.8	208.5	209.3	210.0	211.4	212.8
107.5°	255.7	256.1	256.7	257.1	257.8	258.8	259.8	260.9	261.9	262.5	263.2
110°	291.3	291.7	292.1	292.7	293.3	294.2	295.1	296.0	296.9	297.2	297.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	326.1	326.9	327.7	328.6	329.2	329.6	329.9	330.4	330.8	330.8	330.7
115°	378.8	379.3	379.7	380.1	380.3	380.1	380.0	379.9	379.7	380.0	380.3
117.5°	426.7	427.3	427.9	428.5	429.0	429.3	429.6	430.0	430.3	430.2	430.2
120°	459.1	459.7	460.3	460.8	461.1	460.9	460.8	460.6	460.5	460.8	461.1
122.5°	489.0	489.3	489.7	490.1	490.3	490.5	490.8	490.9	491.2	491.4	491.5
125°	532.4	533.0	533.6	534.3	534.3	534.1	533.8	533.5	533.2	533.6	534.1
127.5°	572.9	573.1	573.3	573.3	573.8	574.5	575.1	575.8	576.5	576.4	576.4
130°	599.3	599.4	599.6	599.8	600.0	600.5	601.0	601.4	601.8	602.0	602.2
132.5°	623.6	624.0	624.2	624.5	624.9	625.4	626.0	626.5	627.2	627.3	627.5
135°	659.6	659.4	659.3	659.2	659.4	660.0	660.6	661.2	661.8	662.0	662.4
137.5°	692.0	692.1	692.1	692.2	692.5	693.2	693.9	694.5	695.2	695.5	695.8
140°	713.3	713.5	713.9	714.1	714.5	714.7	715.1	715.3	715.6	716.1	716.5
142.5°	732.3	732.9	733.4	733.9	734.3	734.4	734.7	734.9	735.0	735.4	735.6
145°	761.2	761.6	762.1	762.5	762.8	762.8	762.8	762.8	762.8	762.9	763.0
147.5°	784.6	785.4	786.3	787.1	787.5	787.3	787.1	787.0	786.9	787.0	787.1
150°	801.1	801.7	802.3	802.8	803.1	802.9	802.8	802.6	802.5	802.5	802.5
152.5°	814.9	815.4	815.9	816.4	816.5	816.2	816.0	815.6	815.4	815.6	815.9
155°	834.2	834.4	834.6	834.7	834.6	834.1	833.6	833.2	832.8	833.4	834.0
157.5°	850.6	850.5	850.4	850.3	850.0	849.5	849.0	848.5	848.0	848.8	849.5
160°	859.9	859.5	859.0	858.6	858.2	858.2	858.0	857.8	857.6	858.6	859.5
162.5°	868.4	867.8	867.3	866.7	866.3	866.2	866.1	865.9	865.7	866.7	867.5
165°	879.2	878.4	877.6	876.9	876.5	876.5	876.5	876.5	876.5	877.7	878.9
167.5°	887.7	886.9	886.1	885.4	884.9	884.8	884.8	884.7	884.6	885.9	887.3
170°	892.4	891.6	890.6	889.8	889.4	889.5	889.7	889.8	890.0	891.1	892.3
172.5°	895.7	894.8	893.9	893.0	892.6	892.8	892.9	893.0	893.2	894.4	895.6
175°	899.1	898.3	897.4	896.5	896.1	896.3	896.4	896.6	896.7	898.0	899.4
177.5°	900.9	900.0	899.1	898.4	898.0	898.3	898.5	898.8	899.0	899.9	901.0
180°	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3
2.5°	1549.7	1551.6	1553.1	1557.8	1558.2	1562.5	1558.2
5°	1677.9	1686.3	1699.4	1712.4	1713.6	1721.9	1707.1
7.5°	1821.7	1841.0	1853.0	1874.2	1882.6	1887.7	1879.2
10°	1920.7	1938.6	1970.1	1985.6	2001.1	2003.5	1996.3
12.5°	2016.5	2044.8	2069.7	2098.9	2098.3	2119.2	2111.6
15°	2144.0	2173.2	2207.6	2240.4	2252.3	2252.3	2261.8
17.5°	2234.9	2288.4	2324.1	2349.8	2377.9	2382.7	2379.5
20°	2296.4	2354.1	2392.2	2425.5	2444.6	2449.9	2449.9
22.5°	2342.0	2391.2	2428.4	2458.3	2474.1	2480.4	2478.5
25°	2373.7	2416.0	2438.6	2447.5	2451.7	2450.5	2439.2
27.5°	2330.4	2328.5	2314.2	2286.8	2266.2	2253.8	2239.5
30°	2247.6	2216.6	2180.8	2141.6	2091.0	2052.3	2040.4
32.5°	2124.2	2054.7	1994.2	1928.7	1874.3	1835.7	1819.5
35°	1885.7	1775.6	1685.7	1607.1	1550.0	1514.2	1502.4
37.5°	1602.6	1496.0	1384.7	1308.5	1261.1	1225.0	1211.6
40°	1422.5	1306.5	1209.4	1138.1	1089.3	1054.1	1053.5
42.5°	1258.3	1147.5	1056.2	1004.7	952.1	928.8	928.8
45°	1030.3	941.6	864.3	823.8	792.2	773.2	767.8
47.5°	853.1	779.7	728.1	695.9	670.2	658.1	650.2
50°	753.5	689.2	648.2	620.2	605.9	590.5	589.3
52.5°	670.7	618.8	586.8	564.0	546.0	536.7	536.9
55°	563.7	522.6	500.0	482.7	468.5	461.3	458.3
57.5°	474.8	444.0	427.6	411.7	405.7	400.1	398.6
60°	419.7	398.8	383.3	370.8	361.9	360.1	359.5
62.5°	373.9	352.1	341.4	331.7	325.2	322.4	321.4
65°	308.3	292.2	282.8	275.0	272.6	268.5	267.9
67.5°	248.6	238.9	232.6	227.2	224.0	223.8	223.8
70°	211.9	206.6	201.2	198.2	196.4	195.2	195.2
72.5°	180.5	176.5	172.1	170.6	170.2	169.0	168.6
75°	137.5	133.4	133.9	131.0	128.5	125.6	123.8
77.5°	97.5	94.5	93.9	93.6	91.5	91.2	92.1
80°	75.6	72.6	72.0	72.6	72.0	70.3	70.3
82.5°	57.5	55.0	54.4	54.1	53.5	54.1	53.1
85°	30.9	29.8	29.8	29.8	30.9	30.4	29.8
87.5°	14.5	14.1	14.7	14.3	14.4	13.9	14.6
90°	17.5	18.4	19.0	19.3	19.6	19.9	20.2
92.5°	17.0	17.8	18.3	18.4	18.4	18.5	18.6
95°	17.5	18.4	18.9	19.1	19.2	19.4	19.5
97.5°	18.1	18.2	18.3	18.4	18.5	18.7	18.9
100°	22.0	19.5	18.3	18.4	18.5	18.7	18.9
102.5°	60.4	33.0	19.3	19.3	19.3	19.4	19.4
105°	214.0	215.4	213.4	208.0	202.6	197.3	191.8
107.5°	263.8	264.5	265.1	265.7	266.2	266.8	267.4
110°	297.8	298.1	298.4	298.9	299.4	299.8	300.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	330.6	330.5	330.8	331.4	332.0	332.5	333.1
115°	380.6	380.9	381.1	381.1	381.1	381.1	381.1
117.5°	430.2	430.1	430.0	430.0	429.9	429.8	429.8
120°	461.4	461.7	461.7	461.4	461.1	460.8	460.5
122.5°	491.7	491.9	491.8	491.5	491.2	490.9	490.6
125°	534.5	534.9	535.3	535.5	535.5	535.7	535.9
127.5°	576.3	576.2	576.1	575.9	575.8	575.8	575.6
130°	602.3	602.4	602.5	602.5	602.5	602.5	602.5
132.5°	627.6	627.8	627.8	627.7	627.5	627.4	627.3
135°	662.6	663.0	663.2	663.6	663.8	664.2	664.4
137.5°	696.1	696.5	696.5	696.5	696.4	696.3	696.2
140°	717.0	717.4	717.7	717.9	718.0	718.2	718.3
142.5°	736.0	736.3	736.5	736.5	736.6	736.6	736.6
145°	763.2	763.4	763.5	763.9	764.1	764.5	764.7
147.5°	787.2	787.3	787.5	787.6	787.7	787.9	788.1
150°	802.5	802.5	802.5	802.7	802.8	803.0	803.1
152.5°	816.1	816.3	816.4	816.3	816.2	816.1	816.1
155°	834.6	835.2	835.3	834.7	834.3	833.9	833.4
157.5°	850.3	851.1	851.1	850.3	849.5	848.8	848.0
160°	860.4	861.3	861.3	860.4	859.5	858.6	857.6
162.5°	868.4	869.4	869.3	868.2	867.2	866.3	865.2
165°	880.1	881.3	881.2	879.9	878.6	877.2	875.8
167.5°	888.6	889.8	889.8	888.3	886.7	885.3	883.8
170°	893.5	894.8	894.6	893.1	891.7	890.1	888.6
172.5°	896.8	898.0	897.8	896.2	894.6	892.9	891.3
175°	900.8	902.1	901.9	900.1	898.3	896.5	894.7
177.5°	901.9	902.8	902.6	901.1	899.7	898.3	896.8
180°	900.1	900.1	900.1	900.1	900.1	900.1	900.1

(END OF REPORT)