

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: P332962-935

Luminaire Tested: **SA4XXRDIP-C1020D590U935-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332962-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXRDIP-C1020D590U935-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 590 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5497.9 lumens
Efficiency: N/A
Efficacy: 112.7 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: Semi-Direct

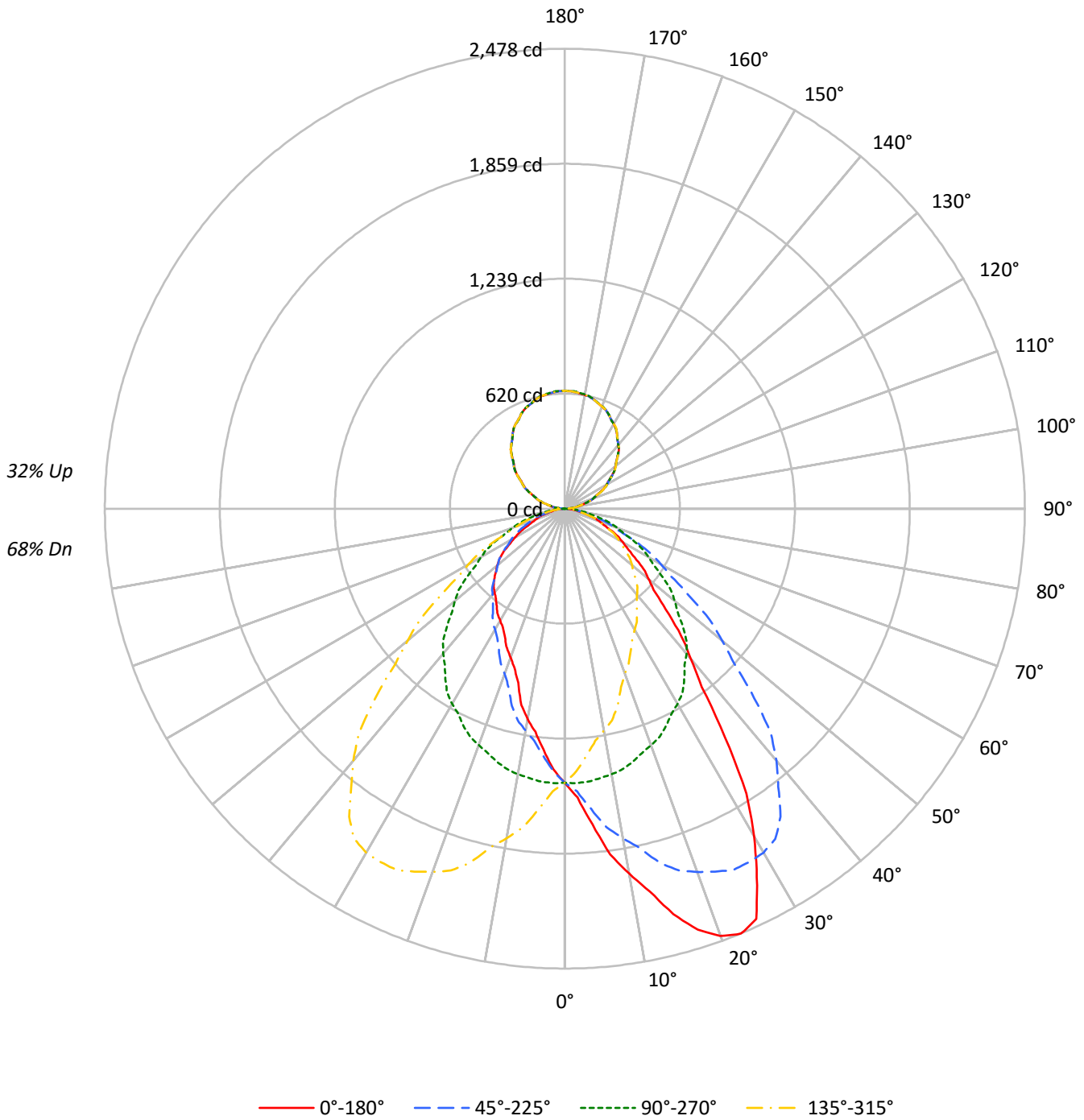
Input Watts (W): 48.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	111	111	111	105	105	105	105	93	93	93	83	83	83	73	73	73	68
1	102	98	94	91	97	93	90	87	83	80	78	74	72	70	65	64	63	59
2	94	87	81	75	88	82	77	72	73	69	66	65	62	60	58	56	54	50
3	86	77	69	64	81	73	66	61	65	60	56	58	54	51	52	49	46	43
4	79	68	60	54	74	65	58	52	58	53	48	52	48	44	47	43	40	37
5	73	61	53	47	69	58	51	45	53	47	42	47	43	39	42	39	36	33
6	67	55	47	41	63	53	45	40	48	42	37	43	38	34	39	35	32	29
7	62	50	42	36	59	48	40	35	43	37	33	39	34	31	35	31	28	26
8	58	46	38	33	55	44	36	32	40	34	29	36	31	27	33	29	25	23
9	54	42	34	29	51	40	33	28	37	31	27	33	28	25	30	26	23	21
10	51	39	31	26	48	37	30	26	34	28	24	31	26	23	28	24	21	19

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	2.6
10°-20°	431.8	7.9
20°-30°	675.3	12.3
30°-40°	750.8	13.7
40°-50°	666.1	12.1
50°-60°	519.0	9.4
60°-70°	339.8	6.2
70°-80°	167.1	3.0
80°-90°	43.1	0.8
90°-100°	41.9	0.8
100°-110°	124.1	2.3
110°-120°	210.6	3.8
120°-130°	277.7	5.1
130°-140°	311.8	5.7
140°-150°	306.4	5.6
150°-160°	257.7	4.7
160°-170°	171.5	3.1
170°-180°	60.0	1.1
0°-30°	1250.3	22.7
0°-40°	2001.0	36.4
0°-60°	3186.1	58.0
0°-90°	3736.2	68.0
90°-120°	376.5	6.8
90°-150°	1272.4	23.1
90°-180°	1762.0	32.0
0°-180°	5497.9	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°	15	2	15	2	15	9
95°	39	29	39	29	39	40
105°	120	114	120	114	120	126
115°	212	214	212	214	212	210
125°	309	312	309	312	309	276
135°	403	402	403	402	403	311
145°	489	489	489	489	489	306
155°	559	560	559	560	559	257
165°	608	609	608	609	608	171
175°	631	634	631	634	631	60
180°	635	635	635	635	635	



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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°	13.4	12.9	13.3	13.3	13.7	13.2	13.5	14.3	13.3	13.6	13.4
90°	14.7	14.6	14.3	14.1	13.9	13.4	12.7	12.1	11.5	10.8	9.9
92.5°	21.8	21.7	21.5	21.4	21.3	21.0	20.7	20.2	19.8	19.5	18.9
95°	38.8	38.8	38.8	38.8	38.8	38.7	38.3	38.0	37.6	37.3	36.6
97.5°	60.8	60.8	60.8	60.8	60.8	60.6	60.2	59.8	59.4	59.1	58.1
100°	76.1	76.1	76.1	76.1	76.1	76.0	75.8	75.6	75.3	75.2	74.1
102.5°	93.4	93.3	93.2	93.2	93.1	92.8	92.6	92.2	92.0	91.6	90.7
105°	119.9	119.5	119.2	118.8	118.5	118.2	117.9	117.5	117.2	116.8	116.4
107.5°	145.6	145.6	145.6	145.6	145.7	145.5	145.2	144.9	144.6	144.3	144.2
110°	164.0	163.7	163.3	163.1	162.7	162.6	162.9	163.1	163.3	163.5	163.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	182.9	182.8	182.7	182.7	182.6	182.6	182.6	182.7	182.7	182.8	183.0
115°	212.2	212.2	212.3	212.5	212.6	212.7	212.8	212.9	213.0	213.1	213.4
117.5°	240.0	240.2	240.5	240.6	240.9	241.2	241.6	241.9	242.3	242.7	242.8
120°	261.2	261.1	260.8	260.6	260.4	260.5	261.1	261.7	262.2	262.7	263.0
122.5°	279.0	279.3	279.7	280.1	280.5	280.9	281.3	281.6	282.0	282.4	282.5
125°	309.4	309.6	309.8	310.0	310.2	310.5	310.6	310.9	311.1	311.3	311.4
127.5°	337.6	337.8	337.9	338.1	338.3	338.5	338.7	338.9	339.1	339.3	339.5
130°	356.0	356.5	356.9	357.3	357.7	358.1	358.3	358.5	358.8	359.0	359.0
132.5°	375.7	375.8	376.0	376.2	376.3	376.6	376.8	377.0	377.2	377.5	377.5
135°	402.7	403.0	403.3	403.6	404.0	404.2	404.5	404.7	404.9	405.1	405.1
137.5°	431.1	431.0	430.9	430.8	430.8	430.9	431.2	431.4	431.8	432.0	431.9
140°	448.3	448.5	448.6	448.7	448.8	448.9	449.0	449.1	449.2	449.4	449.4
142.5°	465.6	465.6	465.7	465.7	465.7	465.7	465.8	465.8	465.8	465.8	465.9
145°	489.1	489.4	489.7	490.1	490.4	490.6	490.8	490.9	490.9	491.0	490.9
147.5°	512.9	513.0	513.1	513.2	513.3	513.4	513.5	513.6	513.7	513.8	513.8
150°	527.4	527.5	527.6	527.7	527.9	527.9	527.9	527.9	527.9	527.9	527.9
152.5°	540.8	541.1	541.3	541.7	541.9	541.9	541.7	541.4	541.1	540.9	540.8
155°	559.3	559.7	560.2	560.6	561.1	561.1	560.6	560.2	559.7	559.3	559.5
157.5°	575.9	576.3	576.7	577.0	577.4	577.5	577.1	576.8	576.4	576.1	576.2
160°	585.4	585.9	586.4	587.0	587.5	587.6	587.3	587.0	586.7	586.3	586.4
162.5°	595.2	595.7	596.2	596.8	597.4	597.4	596.8	596.2	595.6	595.0	595.1
165°	608.0	608.4	608.8	609.2	609.7	609.6	608.9	608.3	607.6	607.0	607.2
167.5°	617.1	617.8	618.5	619.1	619.7	619.8	619.1	618.5	617.9	617.2	617.2
170°	622.2	622.9	623.7	624.5	625.3	625.3	624.7	624.0	623.4	622.7	622.6
172.5°	626.5	627.2	628.0	628.8	629.6	629.6	628.9	628.1	627.3	626.6	626.5
175°	631.0	631.8	632.6	633.4	634.0	634.0	633.4	632.6	631.8	631.0	631.1
177.5°	633.4	634.0	634.8	635.5	636.2	636.2	635.6	635.0	634.4	633.8	633.8
180°	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0



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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°	13.3	12.6	13.3	13.2	13.4	15.1	16.3	16.4	15.3	14.1	12.9
90°	9.0	8.2	7.3	6.3	5.1	3.9	2.7	1.5	2.7	3.9	5.1
92.5°	18.3	17.7	17.0	16.0	14.6	13.3	11.9	10.5	11.9	13.3	14.6
95°	35.8	35.0	34.3	33.4	32.4	31.4	30.5	29.4	30.5	31.4	32.4
97.5°	57.3	56.3	55.4	54.6	53.8	53.0	52.3	51.5	52.3	53.0	53.8
100°	73.2	72.2	71.2	70.5	70.1	69.7	69.2	68.7	69.2	69.7	70.1
102.5°	89.8	88.9	88.1	87.5	87.3	87.1	87.0	86.8	87.0	87.1	87.3
105°	116.0	115.5	115.1	114.9	114.8	114.6	114.5	114.4	114.5	114.6	114.8
107.5°	144.1	144.0	144.0	144.0	143.8	143.6	143.5	143.4	143.5	143.6	143.8
110°	163.8	163.8	163.9	163.9	163.7	163.5	163.2	163.1	163.2	163.5	163.7



TEST NUMBER: P332962-935

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	183.1	183.4	183.6	183.7	183.6	183.6	183.5	183.5	183.5	183.6	183.6
115°	213.5	213.8	214.0	214.1	214.1	214.1	214.1	214.1	214.1	214.1	214.1
117.5°	243.0	243.1	243.3	243.3	243.2	243.1	243.1	243.0	243.1	243.1	243.2
120°	263.4	263.7	264.1	264.0	263.6	263.1	262.7	262.3	262.7	263.1	263.6
122.5°	282.7	282.8	283.0	282.9	282.8	282.6	282.4	282.2	282.4	282.6	282.8
125°	311.6	311.7	311.8	311.9	311.9	311.9	311.9	311.9	311.9	311.9	311.9
127.5°	339.7	339.8	340.0	339.9	339.7	339.3	339.0	338.6	339.0	339.3	339.7
130°	359.0	359.0	359.0	358.8	358.5	358.2	357.8	357.5	357.8	358.2	358.5
132.5°	377.6	377.7	377.8	377.7	377.5	377.2	377.0	376.8	377.0	377.2	377.5
135°	405.1	405.1	405.1	404.8	404.2	403.5	402.9	402.2	402.9	403.5	404.2
137.5°	431.7	431.5	431.4	431.1	430.8	430.5	430.2	429.9	430.2	430.5	430.8
140°	449.4	449.4	449.4	449.2	449.0	448.8	448.6	448.3	448.6	448.8	449.0
142.5°	466.0	466.1	466.1	466.1	465.9	465.7	465.5	465.2	465.5	465.7	465.9
145°	490.9	490.8	490.6	490.3	489.9	489.5	489.0	488.6	489.0	489.5	489.9
147.5°	513.9	514.0	514.1	513.9	513.3	512.8	512.3	511.8	512.3	512.8	513.3
150°	527.9	527.9	527.9	527.7	527.3	526.8	526.4	525.9	526.4	526.8	527.3
152.5°	540.7	540.6	540.5	540.4	540.1	539.8	539.6	539.3	539.6	539.8	540.1
155°	559.6	559.6	559.7	559.8	559.8	559.8	559.8	559.8	559.8	559.8	559.8
157.5°	576.2	576.2	576.2	576.4	576.5	576.7	576.9	577.1	576.9	576.7	576.5
160°	586.6	586.7	586.8	586.9	587.0	587.1	587.2	587.3	587.2	587.1	587.0
162.5°	595.2	595.3	595.4	595.6	595.9	596.2	596.5	596.8	596.5	596.2	595.9
165°	607.4	607.6	607.9	608.1	608.5	608.7	609.1	609.4	609.1	608.7	608.5
167.5°	617.2	617.1	617.1	617.3	617.8	618.2	618.7	619.1	618.7	618.2	617.8
170°	622.4	622.3	622.2	622.4	623.0	623.5	624.1	624.7	624.1	623.5	623.0
172.5°	626.5	626.5	626.5	626.7	627.2	627.7	628.1	628.5	628.1	627.7	627.2
175°	631.3	631.4	631.5	631.8	632.3	632.9	633.4	634.0	633.4	632.9	632.3
177.5°	633.8	633.8	633.8	634.0	634.5	634.9	635.3	635.8	635.3	634.9	634.5
180°	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0



TEST NUMBER: P332962-935

CATALOG NUMBER: SA4XXRDIP-C1020D590U935-4F0-1E-UDD-A1

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°	13.2	12.9	13.1	12.3	12.9	13.1	12.7	12.9	13.5	12.7	12.7
90°	6.3	7.3	8.2	9.0	9.9	10.8	11.5	12.1	12.7	13.4	13.9
92.5°	16.0	17.0	17.7	18.3	18.9	19.5	19.8	20.2	20.7	21.0	21.3
95°	33.4	34.3	35.0	35.8	36.6	37.3	37.6	38.0	38.3	38.7	38.8
97.5°	54.6	55.4	56.3	57.3	58.1	59.1	59.4	59.8	60.2	60.6	60.8
100°	70.5	71.2	72.2	73.2	74.1	75.2	75.3	75.6	75.8	76.0	76.1
102.5°	87.5	88.1	88.9	89.8	90.7	91.6	92.0	92.2	92.6	92.8	93.1
105°	114.9	115.1	115.5	116.0	116.4	116.8	117.2	117.5	117.9	118.2	118.5
107.5°	144.0	144.0	144.0	144.1	144.2	144.3	144.6	144.9	145.2	145.5	145.7
110°	163.9	163.9	163.8	163.8	163.7	163.5	163.3	163.1	162.9	162.6	162.7



TEST NUMBER: P332962-935

CATALOG NUMBER: SA4XXRDIP-C1020D590U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	183.7	183.6	183.4	183.1	183.0	182.8	182.7	182.7	182.6	182.6	182.6
115°	214.1	214.0	213.8	213.5	213.4	213.1	213.0	212.9	212.8	212.7	212.6
117.5°	243.3	243.3	243.1	243.0	242.8	242.7	242.3	241.9	241.6	241.2	240.9
120°	264.0	264.1	263.7	263.4	263.0	262.7	262.2	261.7	261.1	260.5	260.4
122.5°	282.9	283.0	282.8	282.7	282.5	282.4	282.0	281.6	281.3	280.9	280.5
125°	311.9	311.8	311.7	311.6	311.4	311.3	311.1	310.9	310.6	310.5	310.2
127.5°	339.9	340.0	339.8	339.7	339.5	339.3	339.1	338.9	338.7	338.5	338.3
130°	358.8	359.0	359.0	359.0	359.0	359.0	358.8	358.5	358.3	358.1	357.7
132.5°	377.7	377.8	377.7	377.6	377.5	377.5	377.2	377.0	376.8	376.6	376.3
135°	404.8	405.1	405.1	405.1	405.1	405.1	404.9	404.7	404.5	404.2	404.0
137.5°	431.1	431.4	431.5	431.7	431.9	432.0	431.8	431.4	431.2	430.9	430.8
140°	449.2	449.4	449.4	449.4	449.4	449.4	449.2	449.1	449.0	448.9	448.8
142.5°	466.1	466.1	466.1	466.0	465.9	465.8	465.8	465.8	465.8	465.7	465.7
145°	490.3	490.6	490.8	490.9	490.9	491.0	490.9	490.9	490.8	490.6	490.4
147.5°	513.9	514.1	514.0	513.9	513.8	513.8	513.7	513.6	513.5	513.4	513.3
150°	527.7	527.9	527.9	527.9	527.9	527.9	527.9	527.9	527.9	527.9	527.9
152.5°	540.4	540.5	540.6	540.7	540.8	540.9	541.1	541.4	541.7	541.9	541.9
155°	559.8	559.7	559.6	559.6	559.5	559.3	559.7	560.2	560.6	561.1	561.1
157.5°	576.4	576.2	576.2	576.2	576.2	576.1	576.4	576.8	577.1	577.5	577.4
160°	586.9	586.8	586.7	586.6	586.4	586.3	586.7	587.0	587.3	587.6	587.5
162.5°	595.6	595.4	595.3	595.2	595.1	595.0	595.6	596.2	596.8	597.4	597.4
165°	608.1	607.9	607.6	607.4	607.2	607.0	607.6	608.3	608.9	609.6	609.7
167.5°	617.3	617.1	617.1	617.2	617.2	617.2	617.9	618.5	619.1	619.8	619.7
170°	622.4	622.2	622.3	622.4	622.6	622.7	623.4	624.0	624.7	625.3	625.3
172.5°	626.7	626.5	626.5	626.5	626.5	626.6	627.3	628.1	628.9	629.6	629.6
175°	631.8	631.5	631.4	631.3	631.1	631.0	631.8	632.6	633.4	634.0	634.0
177.5°	634.0	633.8	633.8	633.8	633.8	633.8	634.4	635.0	635.6	636.2	636.2
180°	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0



TEST NUMBER: P332962-935

CATALOG NUMBER: SA4XXRDIP-C1020D590U935-4F0-1E-UDD-A1

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°	13.8	13.3	12.9	13.4	12.9	13.3	13.8	12.7	12.7	13.5	12.9
90°	14.1	14.3	14.6	14.7	14.6	14.3	14.1	13.9	13.4	12.7	12.1
92.5°	21.4	21.5	21.7	21.8	21.7	21.5	21.4	21.3	21.0	20.7	20.2
95°	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.7	38.3	38.0
97.5°	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.6	60.2	59.8
100°	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.0	75.8	75.6
102.5°	93.2	93.2	93.3	93.4	93.3	93.2	93.2	93.1	92.8	92.6	92.2
105°	118.8	119.2	119.5	119.9	119.5	119.2	118.8	118.5	118.2	117.9	117.5
107.5°	145.6	145.6	145.6	145.6	145.6	145.6	145.6	145.7	145.5	145.2	144.9
110°	163.1	163.3	163.7	164.0	163.7	163.3	163.1	162.7	162.6	162.9	163.1



TEST NUMBER: P332962-935

CATALOG NUMBER: SA4XXRDIP-C1020D590U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	182.7	182.7	182.8	182.9	182.8	182.7	182.7	182.6	182.6	182.6	182.7
115°	212.5	212.3	212.2	212.2	212.2	212.3	212.5	212.6	212.7	212.8	212.9
117.5°	240.6	240.5	240.2	240.0	240.2	240.5	240.6	240.9	241.2	241.6	241.9
120°	260.6	260.8	261.1	261.2	261.1	260.8	260.6	260.4	260.5	261.1	261.7
122.5°	280.1	279.7	279.3	279.0	279.3	279.7	280.1	280.5	280.9	281.3	281.6
125°	310.0	309.8	309.6	309.4	309.6	309.8	310.0	310.2	310.5	310.6	310.9
127.5°	338.1	337.9	337.8	337.6	337.8	337.9	338.1	338.3	338.5	338.7	338.9
130°	357.3	356.9	356.5	356.0	356.5	356.9	357.3	357.7	358.1	358.3	358.5
132.5°	376.2	376.0	375.8	375.7	375.8	376.0	376.2	376.3	376.6	376.8	377.0
135°	403.6	403.3	403.0	402.7	403.0	403.3	403.6	404.0	404.2	404.5	404.7
137.5°	430.8	430.9	431.0	431.1	431.0	430.9	430.8	430.8	430.9	431.2	431.4
140°	448.7	448.6	448.5	448.3	448.5	448.6	448.7	448.8	448.9	449.0	449.1
142.5°	465.7	465.7	465.6	465.6	465.6	465.7	465.7	465.7	465.7	465.8	465.8
145°	490.1	489.7	489.4	489.1	489.4	489.7	490.1	490.4	490.6	490.8	490.9
147.5°	513.2	513.1	513.0	512.9	513.0	513.1	513.2	513.3	513.4	513.5	513.6
150°	527.7	527.6	527.5	527.4	527.5	527.6	527.7	527.9	527.9	527.9	527.9
152.5°	541.7	541.3	541.1	540.8	541.1	541.3	541.7	541.9	541.9	541.7	541.4
155°	560.6	560.2	559.7	559.3	559.7	560.2	560.6	561.1	561.1	560.6	560.2
157.5°	577.0	576.7	576.3	575.9	576.3	576.7	577.0	577.4	577.5	577.1	576.8
160°	587.0	586.4	585.9	585.4	585.9	586.4	587.0	587.5	587.6	587.3	587.0
162.5°	596.8	596.2	595.7	595.2	595.7	596.2	596.8	597.4	597.4	596.8	596.2
165°	609.2	608.8	608.4	608.0	608.4	608.8	609.2	609.7	609.6	608.9	608.3
167.5°	619.1	618.5	617.8	617.1	617.8	618.5	619.1	619.7	619.8	619.1	618.5
170°	624.5	623.7	622.9	622.2	622.9	623.7	624.5	625.3	625.3	624.7	624.0
172.5°	628.8	628.0	627.2	626.5	627.2	628.0	628.8	629.6	629.6	628.9	628.1
175°	633.4	632.6	631.8	631.0	631.8	632.6	633.4	634.0	634.0	633.4	632.6
177.5°	635.5	634.8	634.0	633.4	634.0	634.8	635.5	636.2	636.2	635.6	635.0
180°	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0



TEST NUMBER: P332962-935

CATALOG NUMBER: SA4XXRDIP-C1020D590U935-4F0-1E-UDD-A1

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°	12.7	13.1	12.9	12.3	13.1	12.9	13.2	12.9	14.1	15.3	16.4
90°	11.5	10.8	9.9	9.0	8.2	7.3	6.3	5.1	3.9	2.7	1.5
92.5°	19.8	19.5	18.9	18.3	17.7	17.0	16.0	14.6	13.3	11.9	10.5
95°	37.6	37.3	36.6	35.8	35.0	34.3	33.4	32.4	31.4	30.5	29.4
97.5°	59.4	59.1	58.1	57.3	56.3	55.4	54.6	53.8	53.0	52.3	51.5
100°	75.3	75.2	74.1	73.2	72.2	71.2	70.5	70.1	69.7	69.2	68.7
102.5°	92.0	91.6	90.7	89.8	88.9	88.1	87.5	87.3	87.1	87.0	86.8
105°	117.2	116.8	116.4	116.0	115.5	115.1	114.9	114.8	114.6	114.5	114.4
107.5°	144.6	144.3	144.2	144.1	144.0	144.0	144.0	143.8	143.6	143.5	143.4
110°	163.3	163.5	163.7	163.8	163.8	163.9	163.9	163.7	163.5	163.2	163.1



TEST NUMBER: P332962-935

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	182.7	182.8	183.0	183.1	183.4	183.6	183.7	183.6	183.6	183.5	183.5
115°	213.0	213.1	213.4	213.5	213.8	214.0	214.1	214.1	214.1	214.1	214.1
117.5°	242.3	242.7	242.8	243.0	243.1	243.3	243.3	243.2	243.1	243.1	243.0
120°	262.2	262.7	263.0	263.4	263.7	264.1	264.0	263.6	263.1	262.7	262.3
122.5°	282.0	282.4	282.5	282.7	282.8	283.0	282.9	282.8	282.6	282.4	282.2
125°	311.1	311.3	311.4	311.6	311.7	311.8	311.9	311.9	311.9	311.9	311.9
127.5°	339.1	339.3	339.5	339.7	339.8	340.0	339.9	339.7	339.3	339.0	338.6
130°	358.8	359.0	359.0	359.0	359.0	359.0	358.8	358.5	358.2	357.8	357.5
132.5°	377.2	377.5	377.5	377.6	377.7	377.8	377.7	377.5	377.2	377.0	376.8
135°	404.9	405.1	405.1	405.1	405.1	405.1	404.8	404.2	403.5	402.9	402.2
137.5°	431.8	432.0	431.9	431.7	431.5	431.4	431.1	430.8	430.5	430.2	429.9
140°	449.2	449.4	449.4	449.4	449.4	449.4	449.2	449.0	448.8	448.6	448.3
142.5°	465.8	465.8	465.9	466.0	466.1	466.1	466.1	465.9	465.7	465.5	465.2
145°	490.9	491.0	490.9	490.9	490.8	490.6	490.3	489.9	489.5	489.0	488.6
147.5°	513.7	513.8	513.8	513.9	514.0	514.1	513.9	513.3	512.8	512.3	511.8
150°	527.9	527.9	527.9	527.9	527.9	527.9	527.7	527.3	526.8	526.4	525.9
152.5°	541.1	540.9	540.8	540.7	540.6	540.5	540.4	540.1	539.8	539.6	539.3
155°	559.7	559.3	559.5	559.6	559.6	559.7	559.8	559.8	559.8	559.8	559.8
157.5°	576.4	576.1	576.2	576.2	576.2	576.2	576.4	576.5	576.7	576.9	577.1
160°	586.7	586.3	586.4	586.6	586.7	586.8	586.9	587.0	587.1	587.2	587.3
162.5°	595.6	595.0	595.1	595.2	595.3	595.4	595.6	595.9	596.2	596.5	596.8
165°	607.6	607.0	607.2	607.4	607.6	607.9	608.1	608.5	608.7	609.1	609.4
167.5°	617.9	617.2	617.2	617.2	617.1	617.1	617.3	617.8	618.2	618.7	619.1
170°	623.4	622.7	622.6	622.4	622.3	622.2	622.4	623.0	623.5	624.1	624.7
172.5°	627.3	626.6	626.5	626.5	626.5	626.5	626.7	627.2	627.7	628.1	628.5
175°	631.8	631.0	631.1	631.3	631.4	631.5	631.8	632.3	632.9	633.4	634.0
177.5°	634.4	633.8	633.8	633.8	633.8	633.8	634.0	634.5	634.9	635.3	635.8
180°	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0



TEST NUMBER: P332962-935

CATALOG NUMBER: SA4XXRDIP-C1020D590U935-4F0-1E-UDD-A1

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°	16.3	15.1	13.4	13.2	13.3	12.6	13.3	13.4	13.6	13.3	14.3
90°	2.7	3.9	5.1	6.3	7.3	8.2	9.0	9.9	10.8	11.5	12.1
92.5°	11.9	13.3	14.6	16.0	17.0	17.7	18.3	18.9	19.5	19.8	20.2
95°	30.5	31.4	32.4	33.4	34.3	35.0	35.8	36.6	37.3	37.6	38.0
97.5°	52.3	53.0	53.8	54.6	55.4	56.3	57.3	58.1	59.1	59.4	59.8
100°	69.2	69.7	70.1	70.5	71.2	72.2	73.2	74.1	75.2	75.3	75.6
102.5°	87.0	87.1	87.3	87.5	88.1	88.9	89.8	90.7	91.6	92.0	92.2
105°	114.5	114.6	114.8	114.9	115.1	115.5	116.0	116.4	116.8	117.2	117.5
107.5°	143.5	143.6	143.8	144.0	144.0	144.0	144.1	144.2	144.3	144.6	144.9
110°	163.2	163.5	163.7	163.9	163.9	163.8	163.8	163.7	163.5	163.3	163.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	183.5	183.6	183.6	183.7	183.6	183.4	183.1	183.0	182.8	182.7	182.7
115°	214.1	214.1	214.1	214.1	214.0	213.8	213.5	213.4	213.1	213.0	212.9
117.5°	243.1	243.1	243.2	243.3	243.3	243.1	243.0	242.8	242.7	242.3	241.9
120°	262.7	263.1	263.6	264.0	264.1	263.7	263.4	263.0	262.7	262.2	261.7
122.5°	282.4	282.6	282.8	282.9	283.0	282.8	282.7	282.5	282.4	282.0	281.6
125°	311.9	311.9	311.9	311.9	311.8	311.7	311.6	311.4	311.3	311.1	310.9
127.5°	339.0	339.3	339.7	339.9	340.0	339.8	339.7	339.5	339.3	339.1	338.9
130°	357.8	358.2	358.5	358.8	359.0	359.0	359.0	359.0	359.0	358.8	358.5
132.5°	377.0	377.2	377.5	377.7	377.8	377.7	377.6	377.5	377.5	377.2	377.0
135°	402.9	403.5	404.2	404.8	405.1	405.1	405.1	405.1	405.1	404.9	404.7
137.5°	430.2	430.5	430.8	431.1	431.4	431.5	431.7	431.9	432.0	431.8	431.4
140°	448.6	448.8	449.0	449.2	449.4	449.4	449.4	449.4	449.4	449.2	449.1
142.5°	465.5	465.7	465.9	466.1	466.1	466.1	466.0	465.9	465.8	465.8	465.8
145°	489.0	489.5	489.9	490.3	490.6	490.8	490.9	490.9	491.0	490.9	490.9
147.5°	512.3	512.8	513.3	513.9	514.1	514.0	513.9	513.8	513.8	513.7	513.6
150°	526.4	526.8	527.3	527.7	527.9	527.9	527.9	527.9	527.9	527.9	527.9
152.5°	539.6	539.8	540.1	540.4	540.5	540.6	540.7	540.8	540.9	541.1	541.4
155°	559.8	559.8	559.8	559.8	559.7	559.6	559.6	559.5	559.3	559.7	560.2
157.5°	576.9	576.7	576.5	576.4	576.2	576.2	576.2	576.2	576.1	576.4	576.8
160°	587.2	587.1	587.0	586.9	586.8	586.7	586.6	586.4	586.3	586.7	587.0
162.5°	596.5	596.2	595.9	595.6	595.4	595.3	595.2	595.1	595.0	595.6	596.2
165°	609.1	608.7	608.5	608.1	607.9	607.6	607.4	607.2	607.0	607.6	608.3
167.5°	618.7	618.2	617.8	617.3	617.1	617.1	617.2	617.2	617.2	617.9	618.5
170°	624.1	623.5	623.0	622.4	622.2	622.3	622.4	622.6	622.7	623.4	624.0
172.5°	628.1	627.7	627.2	626.7	626.5	626.5	626.5	626.5	626.6	627.3	628.1
175°	633.4	632.9	632.3	631.8	631.5	631.4	631.3	631.1	631.0	631.8	632.6
177.5°	635.3	634.9	634.5	634.0	633.8	633.8	633.8	633.8	633.8	634.4	635.0
180°	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0



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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°	13.5	13.2	13.7	13.3	13.3	12.9	13.4
90°	12.7	13.4	13.9	14.1	14.3	14.6	14.7
92.5°	20.7	21.0	21.3	21.4	21.5	21.7	21.8
95°	38.3	38.7	38.8	38.8	38.8	38.8	38.8
97.5°	60.2	60.6	60.8	60.8	60.8	60.8	60.8
100°	75.8	76.0	76.1	76.1	76.1	76.1	76.1
102.5°	92.6	92.8	93.1	93.2	93.2	93.3	93.4
105°	117.9	118.2	118.5	118.8	119.2	119.5	119.9
107.5°	145.2	145.5	145.7	145.6	145.6	145.6	145.6
110°	162.9	162.6	162.7	163.1	163.3	163.7	164.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	182.6	182.6	182.6	182.7	182.7	182.8	182.9
115°	212.8	212.7	212.6	212.5	212.3	212.2	212.2
117.5°	241.6	241.2	240.9	240.6	240.5	240.2	240.0
120°	261.1	260.5	260.4	260.6	260.8	261.1	261.2
122.5°	281.3	280.9	280.5	280.1	279.7	279.3	279.0
125°	310.6	310.5	310.2	310.0	309.8	309.6	309.4
127.5°	338.7	338.5	338.3	338.1	337.9	337.8	337.6
130°	358.3	358.1	357.7	357.3	356.9	356.5	356.0
132.5°	376.8	376.6	376.3	376.2	376.0	375.8	375.7
135°	404.5	404.2	404.0	403.6	403.3	403.0	402.7
137.5°	431.2	430.9	430.8	430.8	430.9	431.0	431.1
140°	449.0	448.9	448.8	448.7	448.6	448.5	448.3
142.5°	465.8	465.7	465.7	465.7	465.7	465.6	465.6
145°	490.8	490.6	490.4	490.1	489.7	489.4	489.1
147.5°	513.5	513.4	513.3	513.2	513.1	513.0	512.9
150°	527.9	527.9	527.9	527.7	527.6	527.5	527.4
152.5°	541.7	541.9	541.9	541.7	541.3	541.1	540.8
155°	560.6	561.1	561.1	560.6	560.2	559.7	559.3
157.5°	577.1	577.5	577.4	577.0	576.7	576.3	575.9
160°	587.3	587.6	587.5	587.0	586.4	585.9	585.4
162.5°	596.8	597.4	597.4	596.8	596.2	595.7	595.2
165°	608.9	609.6	609.7	609.2	608.8	608.4	608.0
167.5°	619.1	619.8	619.7	619.1	618.5	617.8	617.1
170°	624.7	625.3	625.3	624.5	623.7	622.9	622.2
172.5°	628.9	629.6	629.6	628.8	628.0	627.2	626.5
175°	633.4	634.0	634.0	633.4	632.6	631.8	631.0
177.5°	635.6	636.2	636.2	635.5	634.8	634.0	633.4
180°	635.0	635.0	635.0	635.0	635.0	635.0	635.0

(END OF REPORT)