

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: P333075-935

Luminaire Tested: **S124RDIW-S1020D470U935-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333075-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124RDIW-S1020D470U935-4F0-1E-UDD-A
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 470 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5349.6 lumens
Efficiency: N/A
Efficacy: 115.8 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

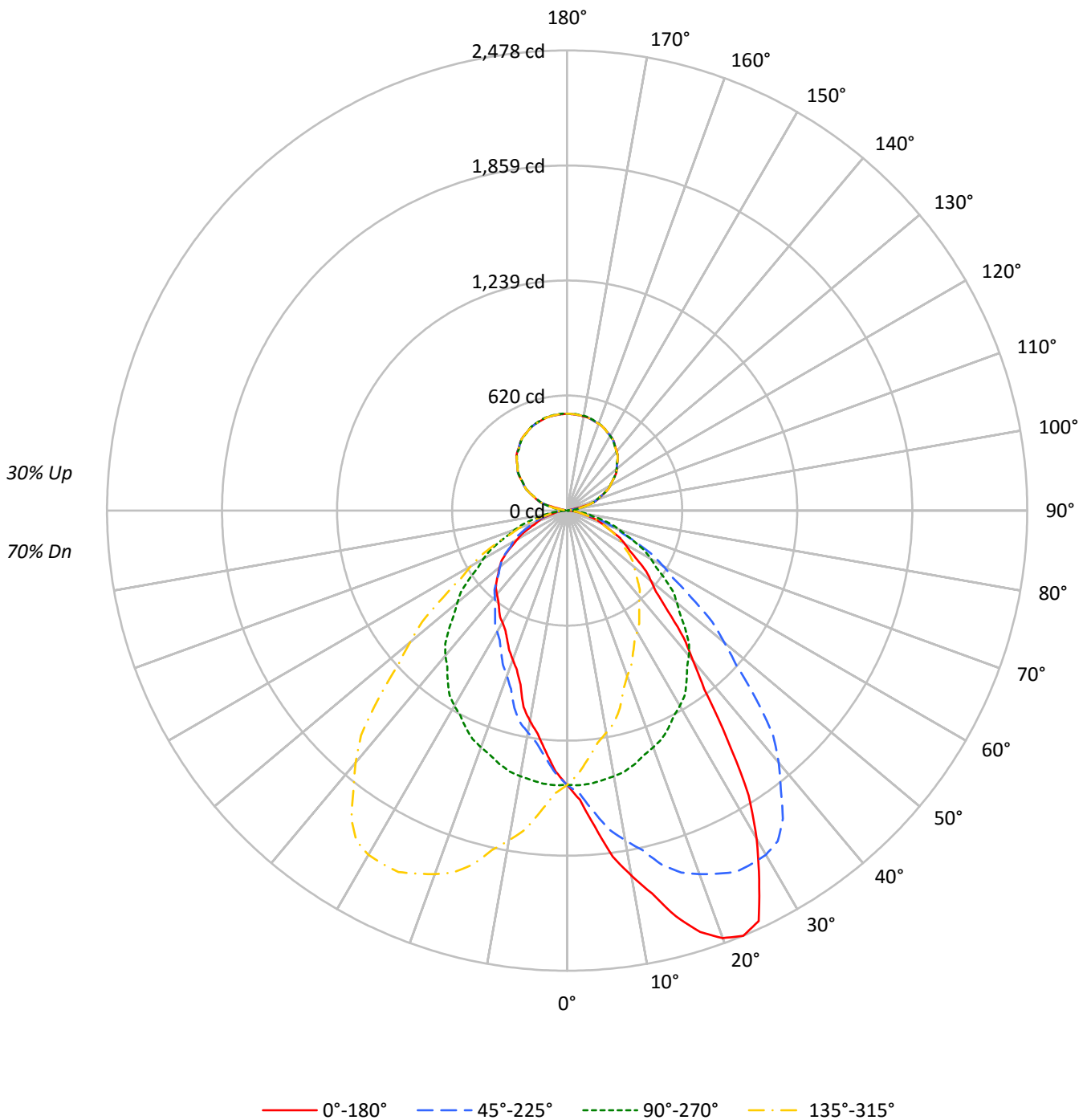
Input Watts (W): 46.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	70
1	103	99	95	92	97	94	90	87	84	81	79	75	73	71	67	65	64	60
2	94	87	81	76	89	83	77	73	74	70	66	67	63	61	60	57	55	51
3	86	77	70	64	81	73	67	61	66	61	57	59	55	52	53	50	47	44
4	79	69	61	55	75	65	58	53	59	53	49	53	49	45	48	44	41	38
5	73	62	53	47	69	59	51	46	53	47	43	48	43	39	44	40	36	34
6	68	56	47	42	64	53	46	40	48	42	38	44	39	35	40	36	32	30
7	63	50	42	37	59	48	41	36	44	38	33	40	35	31	36	32	29	27
8	58	46	38	33	55	44	37	32	40	34	30	37	32	28	33	29	26	24
9	54	42	35	29	52	40	33	29	37	31	27	34	29	25	31	27	24	22
10	51	39	32	27	48	37	30	26	34	28	24	31	27	23	29	25	22	20

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	2.7
10°-20°	431.8	8.1
20°-30°	675.3	12.6
30°-40°	750.8	14.0
40°-50°	666.1	12.5
50°-60°	519.0	9.7
60°-70°	339.8	6.4
70°-80°	167.1	3.1
80°-90°	42.7	0.8
90°-100°	17.8	0.3
100°-110°	113.8	2.1
110°-120°	217.6	4.1
120°-130°	276.3	5.2
130°-140°	295.6	5.5
140°-150°	276.4	5.2
150°-160°	222.9	4.2
160°-170°	143.8	2.7
170°-180°	49.6	0.9
0°-30°	1250.3	23.4
0°-40°	2001.0	37.4
0°-60°	3186.1	59.6
0°-90°	3735.8	69.8
90°-120°	349.2	6.5
90°-150°	1197.5	22.4
90°-180°	1614.0	30.2
0°-180°	5349.6	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°	12	1	12	1	12	6
95°	11	21	11	21	11	9
105°	111	117	111	117	111	97
115°	221	219	221	219	221	219
125°	311	308	311	308	311	277
135°	385	382	385	382	385	296
145°	443	441	443	441	443	277
155°	483	484	483	484	483	223
165°	508	510	508	510	508	143
175°	519	522	519	522	519	49
180°	522	522	522	522	522	



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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°	12.8	12.3	12.7	12.7	13.2	12.6	13.0	13.9	12.7	13.2	13.0
90°	11.7	11.5	11.4	11.2	11.0	10.7	10.2	9.6	9.1	8.6	7.9
92.5°	10.8	10.8	10.7	10.7	10.6	10.3	9.8	9.3	8.8	8.3	7.6
95°	11.3	11.2	11.1	11.0	10.9	10.7	10.2	9.6	9.1	8.6	8.5
97.5°	10.9	10.8	10.8	10.7	10.6	10.5	10.4	10.4	10.3	10.3	20.0
100°	10.9	10.8	10.8	10.7	10.6	11.3	12.7	14.2	15.7	17.1	29.1
102.5°	11.3	11.2	11.2	11.2	11.2	19.1	35.0	50.9	66.8	82.7	84.3
105°	111.2	114.3	117.4	120.5	123.7	124.8	124.1	123.3	122.5	121.7	121.3
107.5°	155.0	154.6	154.3	154.0	153.7	153.3	152.9	152.6	152.1	151.8	151.2
110°	174.0	173.7	173.5	173.2	173.0	172.8	172.6	172.5	172.3	172.1	171.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	193.0	192.8	192.4	192.1	191.7	191.6	191.7	191.7	191.7	191.7	191.5
115°	220.8	220.8	220.8	220.8	220.8	220.8	220.6	220.4	220.2	220.1	220.2
117.5°	249.1	249.2	249.2	249.2	249.3	249.3	249.3	249.3	249.3	249.4	249.3
120°	266.9	267.1	267.3	267.4	267.6	267.6	267.4	267.3	267.1	266.9	267.0
122.5°	284.4	284.6	284.7	284.9	285.1	285.1	285.0	284.9	284.8	284.7	284.6
125°	310.6	310.5	310.4	310.3	310.2	310.0	309.8	309.5	309.3	309.0	309.2
127.5°	333.6	333.7	333.7	333.8	333.9	334.0	334.0	334.1	334.2	334.2	333.8
130°	349.2	349.2	349.2	349.2	349.2	349.2	349.1	349.0	349.0	348.9	348.6
132.5°	363.6	363.7	363.8	363.8	363.9	363.9	363.8	363.7	363.6	363.5	363.2
135°	385.1	385.0	384.8	384.6	384.4	384.3	384.1	383.9	383.7	383.6	383.2
137.5°	403.6	403.6	403.6	403.7	403.7	403.7	403.5	403.3	403.1	402.9	402.5
140°	416.4	416.3	416.2	416.1	416.0	415.9	415.6	415.3	415.1	414.8	414.7
142.5°	427.0	427.0	427.0	426.9	426.9	426.8	426.6	426.4	426.2	426.0	425.9
145°	443.2	443.1	442.9	442.7	442.6	442.5	442.4	442.3	442.2	442.1	442.1
147.5°	456.8	456.7	456.6	456.5	456.4	456.3	456.2	456.2	456.2	456.1	456.2
150°	465.5	465.5	465.4	465.3	465.2	465.1	465.1	465.1	465.1	465.1	465.2
152.5°	473.0	473.0	473.1	473.2	473.2	473.2	473.0	472.9	472.8	472.6	472.8
155°	483.1	483.4	483.6	483.9	484.1	484.1	483.7	483.4	483.0	482.7	482.9
157.5°	491.5	492.0	492.4	492.8	493.3	493.3	492.8	492.4	492.0	491.5	491.8
160°	497.1	497.7	498.2	498.7	499.2	499.2	498.7	498.2	497.7	497.1	497.2
162.5°	501.5	502.0	502.7	503.3	503.9	503.9	503.3	502.8	502.3	501.8	501.9
165°	507.6	508.4	509.2	510.0	510.7	510.8	510.1	509.5	508.8	508.1	508.1
167.5°	512.3	513.2	514.0	514.9	515.7	515.8	515.1	514.3	513.5	512.7	512.8
170°	515.1	515.9	516.8	517.6	518.6	518.7	517.9	517.2	516.5	515.8	515.7
172.5°	516.6	517.5	518.5	519.4	520.4	520.5	519.8	519.1	518.4	517.7	517.6
175°	518.6	519.6	520.6	521.7	522.7	522.9	522.1	521.3	520.6	519.8	519.7
177.5°	519.9	520.6	521.5	522.4	523.1	523.3	522.7	522.2	521.6	521.1	520.9
180°	521.7	521.7	521.7	521.7	521.7	521.7	521.7	521.7	521.7	521.7	521.7



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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°	12.8	12.2	13.1	12.9	13.2	14.9	16.1	16.4	15.2	13.9	12.7
90°	7.2	6.5	5.8	5.0	4.0	3.1	2.2	1.2	2.2	3.1	4.0
92.5°	6.9	6.2	5.5	5.2	5.1	5.0	5.0	4.9	5.0	5.0	5.1
95°	8.4	8.4	8.3	9.6	12.7	15.6	18.5	21.4	18.5	15.6	12.7
97.5°	29.6	39.3	49.0	53.0	51.1	49.2	47.4	45.5	47.4	49.2	51.1
100°	41.1	53.0	65.0	70.3	68.7	67.2	65.5	64.0	65.5	67.2	68.7
102.5°	85.8	87.4	88.9	89.2	88.0	86.9	85.8	84.6	85.8	86.9	88.0
105°	120.9	120.5	120.0	119.5	119.0	118.5	118.0	117.4	118.0	118.5	119.0
107.5°	150.6	150.0	149.5	149.0	148.8	148.5	148.3	148.0	148.3	148.5	148.8
110°	171.1	170.5	170.0	169.6	169.4	169.1	168.8	168.6	168.8	169.1	169.4



TEST NUMBER: P333075-935

CATALOG NUMBER: S124RDIW-S1020D470U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	191.2	191.1	190.8	190.5	189.9	189.5	189.0	188.6	189.0	189.5	189.9
115°	220.2	220.3	220.4	220.3	220.1	219.8	219.6	219.3	219.6	219.8	220.1
117.5°	249.0	248.8	248.7	248.4	248.1	247.7	247.4	247.0	247.4	247.7	248.1
120°	267.1	267.2	267.3	267.1	266.7	266.4	266.0	265.7	266.0	266.4	266.7
122.5°	284.5	284.3	284.2	284.0	283.9	283.6	283.4	283.2	283.4	283.6	283.9
125°	309.4	309.5	309.7	309.6	309.3	308.9	308.6	308.2	308.6	308.9	309.3
127.5°	333.4	332.9	332.6	332.3	332.3	332.2	332.1	332.0	332.1	332.2	332.3
130°	348.4	348.1	347.8	347.7	347.6	347.5	347.3	347.2	347.3	347.5	347.6
132.5°	362.8	362.6	362.2	362.0	361.8	361.6	361.4	361.4	361.4	361.6	361.8
135°	382.9	382.5	382.2	382.0	382.1	382.2	382.3	382.4	382.3	382.2	382.1
137.5°	402.2	401.7	401.4	401.2	401.1	401.1	401.1	401.1	401.1	401.1	401.1
140°	414.5	414.2	414.1	413.9	413.7	413.5	413.4	413.2	413.4	413.5	413.7
142.5°	425.9	425.7	425.6	425.4	425.1	424.8	424.5	424.1	424.5	424.8	425.1
145°	442.1	442.1	442.1	442.0	441.7	441.4	441.2	440.9	441.2	441.4	441.7
147.5°	456.2	456.3	456.4	456.2	455.7	455.2	454.8	454.3	454.8	455.2	455.7
150°	465.3	465.4	465.5	465.4	465.0	464.7	464.3	464.0	464.3	464.7	465.0
152.5°	472.9	473.1	473.2	473.2	472.9	472.6	472.3	472.1	472.3	472.6	472.9
155°	483.2	483.5	483.7	483.8	483.7	483.6	483.5	483.5	483.5	483.6	483.7
157.5°	492.1	492.4	492.7	492.8	492.9	492.9	493.0	493.1	493.0	492.9	492.9
160°	497.3	497.4	497.5	497.7	497.9	498.2	498.4	498.7	498.4	498.2	497.9
162.5°	502.0	502.0	502.1	502.4	502.7	503.0	503.3	503.7	503.3	503.0	502.7
165°	508.1	508.1	508.1	508.2	508.7	509.1	509.5	510.0	509.5	509.1	508.7
167.5°	512.8	512.9	512.9	513.2	513.7	514.1	514.5	515.0	514.5	514.1	513.7
170°	515.7	515.6	515.5	515.7	516.3	516.8	517.3	517.8	517.3	516.8	516.3
172.5°	517.5	517.5	517.4	517.6	518.1	518.7	519.2	519.7	519.2	518.7	518.1
175°	519.6	519.5	519.4	519.6	520.1	520.6	521.2	521.7	521.2	520.6	520.1
177.5°	520.8	520.6	520.6	520.7	521.2	521.7	522.2	522.6	522.2	521.7	521.2
180°	521.7	521.7	521.7	521.7	521.7	521.7	521.7	521.7	521.7	521.7	521.7



TEST NUMBER: P333075-935

CATALOG NUMBER: S124RDIW-S1020D470U935-4F0-1E-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°	12.9	12.6	12.7	11.9	12.6	12.7	12.3	12.4	13.0	12.1	12.2
90°	5.0	5.8	6.5	7.2	7.9	8.6	9.1	9.6	10.2	10.7	11.0
92.5°	5.2	5.5	6.2	6.9	7.6	8.3	8.8	9.3	9.8	10.3	10.6
95°	9.6	8.3	8.4	8.4	8.5	8.6	9.1	9.6	10.2	10.7	10.9
97.5°	53.0	49.0	39.3	29.6	20.0	10.3	10.3	10.4	10.4	10.5	10.6
100°	70.3	65.0	53.0	41.1	29.1	17.1	15.7	14.2	12.7	11.3	10.6
102.5°	89.2	88.9	87.4	85.8	84.3	82.7	66.8	50.9	35.0	19.1	11.2
105°	119.5	120.0	120.5	120.9	121.3	121.7	122.5	123.3	124.1	124.8	123.7
107.5°	149.0	149.5	150.0	150.6	151.2	151.8	152.1	152.6	152.9	153.3	153.7
110°	169.6	170.0	170.5	171.1	171.6	172.1	172.3	172.5	172.6	172.8	173.0



TEST NUMBER: P333075-935

CATALOG NUMBER: S124RDIW-S1020D470U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	190.5	190.8	191.1	191.2	191.5	191.7	191.7	191.7	191.7	191.6	191.7
115°	220.3	220.4	220.3	220.2	220.2	220.1	220.2	220.4	220.6	220.8	220.8
117.5°	248.4	248.7	248.8	249.0	249.3	249.4	249.3	249.3	249.3	249.3	249.3
120°	267.1	267.3	267.2	267.1	267.0	266.9	267.1	267.3	267.4	267.6	267.6
122.5°	284.0	284.2	284.3	284.5	284.6	284.7	284.8	284.9	285.0	285.1	285.1
125°	309.6	309.7	309.5	309.4	309.2	309.0	309.3	309.5	309.8	310.0	310.2
127.5°	332.3	332.6	332.9	333.4	333.8	334.2	334.2	334.1	334.0	334.0	333.9
130°	347.7	347.8	348.1	348.4	348.6	348.9	349.0	349.0	349.1	349.2	349.2
132.5°	362.0	362.2	362.6	362.8	363.2	363.5	363.6	363.7	363.8	363.9	363.9
135°	382.0	382.2	382.5	382.9	383.2	383.6	383.7	383.9	384.1	384.3	384.4
137.5°	401.2	401.4	401.7	402.2	402.5	402.9	403.1	403.3	403.5	403.7	403.7
140°	413.9	414.1	414.2	414.5	414.7	414.8	415.1	415.3	415.6	415.9	416.0
142.5°	425.4	425.6	425.7	425.9	425.9	426.0	426.2	426.4	426.6	426.8	426.9
145°	442.0	442.1	442.1	442.1	442.1	442.1	442.2	442.3	442.4	442.5	442.6
147.5°	456.2	456.4	456.3	456.2	456.2	456.1	456.2	456.2	456.2	456.3	456.4
150°	465.4	465.5	465.4	465.3	465.2	465.1	465.1	465.1	465.1	465.1	465.2
152.5°	473.2	473.2	473.1	472.9	472.8	472.6	472.8	472.9	473.0	473.2	473.2
155°	483.8	483.7	483.5	483.2	482.9	482.7	483.0	483.4	483.7	484.1	484.1
157.5°	492.8	492.7	492.4	492.1	491.8	491.5	492.0	492.4	492.8	493.3	493.3
160°	497.7	497.5	497.4	497.3	497.2	497.1	497.7	498.2	498.7	499.2	499.2
162.5°	502.4	502.1	502.0	502.0	501.9	501.8	502.3	502.8	503.3	503.9	503.9
165°	508.2	508.1	508.1	508.1	508.1	508.1	508.8	509.5	510.1	510.8	510.7
167.5°	513.2	512.9	512.9	512.8	512.8	512.7	513.5	514.3	515.1	515.8	515.7
170°	515.7	515.5	515.6	515.7	515.7	515.8	516.5	517.2	517.9	518.7	518.6
172.5°	517.6	517.4	517.5	517.5	517.6	517.7	518.4	519.1	519.8	520.5	520.4
175°	519.6	519.4	519.5	519.6	519.7	519.8	520.6	521.3	522.1	522.9	522.7
177.5°	520.7	520.6	520.6	520.8	520.9	521.1	521.6	522.2	522.7	523.3	523.1
180°	521.7	521.7	521.7	521.7	521.7	521.7	521.7	521.7	521.7	521.7	521.7



TEST NUMBER: P333075-935

CATALOG NUMBER: S124RDIW-S1020D470U935-4F0-1E-UDD-A

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°	13.2	12.7	12.3	12.8	12.3	12.7	13.2	12.2	12.1	13.0	12.4
90°	11.2	11.4	11.5	11.7	11.5	11.4	11.2	11.0	10.7	10.2	9.6
92.5°	10.7	10.7	10.8	10.8	10.8	10.7	10.7	10.6	10.3	9.8	9.3
95°	11.0	11.1	11.2	11.3	11.2	11.1	11.0	10.9	10.7	10.2	9.6
97.5°	10.7	10.8	10.8	10.9	10.8	10.8	10.7	10.6	10.5	10.4	10.4
100°	10.7	10.8	10.8	10.9	10.8	10.8	10.7	10.6	11.3	12.7	14.2
102.5°	11.2	11.2	11.2	11.3	11.2	11.2	11.2	11.2	19.1	35.0	50.9
105°	120.5	117.4	114.3	111.2	114.3	117.4	120.5	123.7	124.8	124.1	123.3
107.5°	154.0	154.3	154.6	155.0	154.6	154.3	154.0	153.7	153.3	152.9	152.6
110°	173.2	173.5	173.7	174.0	173.7	173.5	173.2	173.0	172.8	172.6	172.5



TEST NUMBER: P333075-935

CATALOG NUMBER: S124RDIW-S1020D470U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	192.1	192.4	192.8	193.0	192.8	192.4	192.1	191.7	191.6	191.7	191.7
115°	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.6	220.4
117.5°	249.2	249.2	249.2	249.1	249.2	249.2	249.2	249.3	249.3	249.3	249.3
120°	267.4	267.3	267.1	266.9	267.1	267.3	267.4	267.6	267.6	267.4	267.3
122.5°	284.9	284.7	284.6	284.4	284.6	284.7	284.9	285.1	285.1	285.0	284.9
125°	310.3	310.4	310.5	310.6	310.5	310.4	310.3	310.2	310.0	309.8	309.5
127.5°	333.8	333.7	333.7	333.6	333.7	333.7	333.8	333.9	334.0	334.0	334.1
130°	349.2	349.2	349.2	349.2	349.2	349.2	349.2	349.2	349.2	349.1	349.0
132.5°	363.8	363.8	363.7	363.6	363.7	363.8	363.8	363.9	363.9	363.8	363.7
135°	384.6	384.8	385.0	385.1	385.0	384.8	384.6	384.4	384.3	384.1	383.9
137.5°	403.7	403.6	403.6	403.6	403.6	403.6	403.7	403.7	403.7	403.5	403.3
140°	416.1	416.2	416.3	416.4	416.3	416.2	416.1	416.0	415.9	415.6	415.3
142.5°	426.9	427.0	427.0	427.0	427.0	427.0	426.9	426.9	426.8	426.6	426.4
145°	442.7	442.9	443.1	443.2	443.1	442.9	442.7	442.6	442.5	442.4	442.3
147.5°	456.5	456.6	456.7	456.8	456.7	456.6	456.5	456.4	456.3	456.2	456.2
150°	465.3	465.4	465.5	465.5	465.5	465.4	465.3	465.2	465.1	465.1	465.1
152.5°	473.2	473.1	473.0	473.0	473.0	473.1	473.2	473.2	473.2	473.0	472.9
155°	483.9	483.6	483.4	483.1	483.4	483.6	483.9	484.1	484.1	483.7	483.4
157.5°	492.8	492.4	492.0	491.5	492.0	492.4	492.8	493.3	493.3	492.8	492.4
160°	498.7	498.2	497.7	497.1	497.7	498.2	498.7	499.2	499.2	498.7	498.2
162.5°	503.3	502.7	502.0	501.5	502.0	502.7	503.3	503.9	503.9	503.3	502.8
165°	510.0	509.2	508.4	507.6	508.4	509.2	510.0	510.7	510.8	510.1	509.5
167.5°	514.9	514.0	513.2	512.3	513.2	514.0	514.9	515.7	515.8	515.1	514.3
170°	517.6	516.8	515.9	515.1	515.9	516.8	517.6	518.6	518.7	517.9	517.2
172.5°	519.4	518.5	517.5	516.6	517.5	518.5	519.4	520.4	520.5	519.8	519.1
175°	521.7	520.6	519.6	518.6	519.6	520.6	521.7	522.7	522.9	522.1	521.3
177.5°	522.4	521.5	520.6	519.9	520.6	521.5	522.4	523.1	523.3	522.7	522.2
180°	521.7	521.7	521.7	521.7	521.7	521.7	521.7	521.7	521.7	521.7	521.7



TEST NUMBER: P333075-935

CATALOG NUMBER: S124RDIW-S1020D470U935-4F0-1E-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°	12.3	12.7	12.6	11.9	12.7	12.6	12.9	12.7	13.9	15.2	16.4
90°	9.1	8.6	7.9	7.2	6.5	5.8	5.0	4.0	3.1	2.2	1.2
92.5°	8.8	8.3	7.6	6.9	6.2	5.5	5.2	5.1	5.0	5.0	4.9
95°	9.1	8.6	8.5	8.4	8.4	8.3	9.6	12.7	15.6	18.5	21.4
97.5°	10.3	10.3	20.0	29.6	39.3	49.0	53.0	51.1	49.2	47.4	45.5
100°	15.7	17.1	29.1	41.1	53.0	65.0	70.3	68.7	67.2	65.5	64.0
102.5°	66.8	82.7	84.3	85.8	87.4	88.9	89.2	88.0	86.9	85.8	84.6
105°	122.5	121.7	121.3	120.9	120.5	120.0	119.5	119.0	118.5	118.0	117.4
107.5°	152.1	151.8	151.2	150.6	150.0	149.5	149.0	148.8	148.5	148.3	148.0
110°	172.3	172.1	171.6	171.1	170.5	170.0	169.6	169.4	169.1	168.8	168.6



TEST NUMBER: P333075-935

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	191.7	191.7	191.5	191.2	191.1	190.8	190.5	189.9	189.5	189.0	188.6
115°	220.2	220.1	220.2	220.2	220.3	220.4	220.3	220.1	219.8	219.6	219.3
117.5°	249.3	249.4	249.3	249.0	248.8	248.7	248.4	248.1	247.7	247.4	247.0
120°	267.1	266.9	267.0	267.1	267.2	267.3	267.1	266.7	266.4	266.0	265.7
122.5°	284.8	284.7	284.6	284.5	284.3	284.2	284.0	283.9	283.6	283.4	283.2
125°	309.3	309.0	309.2	309.4	309.5	309.7	309.6	309.3	308.9	308.6	308.2
127.5°	334.2	334.2	333.8	333.4	332.9	332.6	332.3	332.3	332.2	332.1	332.0
130°	349.0	348.9	348.6	348.4	348.1	347.8	347.7	347.6	347.5	347.3	347.2
132.5°	363.6	363.5	363.2	362.8	362.6	362.2	362.0	361.8	361.6	361.4	361.4
135°	383.7	383.6	383.2	382.9	382.5	382.2	382.0	382.1	382.2	382.3	382.4
137.5°	403.1	402.9	402.5	402.2	401.7	401.4	401.2	401.1	401.1	401.1	401.1
140°	415.1	414.8	414.7	414.5	414.2	414.1	413.9	413.7	413.5	413.4	413.2
142.5°	426.2	426.0	425.9	425.9	425.7	425.6	425.4	425.1	424.8	424.5	424.1
145°	442.2	442.1	442.1	442.1	442.1	442.1	442.0	441.7	441.4	441.2	440.9
147.5°	456.2	456.1	456.2	456.2	456.3	456.4	456.2	455.7	455.2	454.8	454.3
150°	465.1	465.1	465.2	465.3	465.4	465.5	465.4	465.0	464.7	464.3	464.0
152.5°	472.8	472.6	472.8	472.9	473.1	473.2	473.2	472.9	472.6	472.3	472.1
155°	483.0	482.7	482.9	483.2	483.5	483.7	483.8	483.7	483.6	483.5	483.5
157.5°	492.0	491.5	491.8	492.1	492.4	492.7	492.8	492.9	492.9	493.0	493.1
160°	497.7	497.1	497.2	497.3	497.4	497.5	497.7	497.9	498.2	498.4	498.7
162.5°	502.3	501.8	501.9	502.0	502.0	502.1	502.4	502.7	503.0	503.3	503.7
165°	508.8	508.1	508.1	508.1	508.1	508.1	508.2	508.7	509.1	509.5	510.0
167.5°	513.5	512.7	512.8	512.8	512.9	512.9	513.2	513.7	514.1	514.5	515.0
170°	516.5	515.8	515.7	515.7	515.6	515.5	515.7	516.3	516.8	517.3	517.8
172.5°	518.4	517.7	517.6	517.5	517.5	517.4	517.6	518.1	518.7	519.2	519.7
175°	520.6	519.8	519.7	519.6	519.5	519.4	519.6	520.1	520.6	521.2	521.7
177.5°	521.6	521.1	520.9	520.8	520.6	520.6	520.7	521.2	521.7	522.2	522.6
180°	521.7	521.7	521.7	521.7	521.7	521.7	521.7	521.7	521.7	521.7	521.7



TEST NUMBER: P333075-935

CATALOG NUMBER: S124RDIW-S1020D470U935-4F0-1E-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°	16.1	14.9	13.2	12.9	13.1	12.2	12.8	13.0	13.2	12.7	13.9
90°	2.2	3.1	4.0	5.0	5.8	6.5	7.2	7.9	8.6	9.1	9.6
92.5°	5.0	5.0	5.1	5.2	5.5	6.2	6.9	7.6	8.3	8.8	9.3
95°	18.5	15.6	12.7	9.6	8.3	8.4	8.4	8.5	8.6	9.1	9.6
97.5°	47.4	49.2	51.1	53.0	49.0	39.3	29.6	20.0	10.3	10.3	10.4
100°	65.5	67.2	68.7	70.3	65.0	53.0	41.1	29.1	17.1	15.7	14.2
102.5°	85.8	86.9	88.0	89.2	88.9	87.4	85.8	84.3	82.7	66.8	50.9
105°	118.0	118.5	119.0	119.5	120.0	120.5	120.9	121.3	121.7	122.5	123.3
107.5°	148.3	148.5	148.8	149.0	149.5	150.0	150.6	151.2	151.8	152.1	152.6
110°	168.8	169.1	169.4	169.6	170.0	170.5	171.1	171.6	172.1	172.3	172.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	189.0	189.5	189.9	190.5	190.8	191.1	191.2	191.5	191.7	191.7	191.7
115°	219.6	219.8	220.1	220.3	220.4	220.3	220.2	220.2	220.1	220.2	220.4
117.5°	247.4	247.7	248.1	248.4	248.7	248.8	249.0	249.3	249.4	249.3	249.3
120°	266.0	266.4	266.7	267.1	267.3	267.2	267.1	267.0	266.9	267.1	267.3
122.5°	283.4	283.6	283.9	284.0	284.2	284.3	284.5	284.6	284.7	284.8	284.9
125°	308.6	308.9	309.3	309.6	309.7	309.5	309.4	309.2	309.0	309.3	309.5
127.5°	332.1	332.2	332.3	332.3	332.6	332.9	333.4	333.8	334.2	334.2	334.1
130°	347.3	347.5	347.6	347.7	347.8	348.1	348.4	348.6	348.9	349.0	349.0
132.5°	361.4	361.6	361.8	362.0	362.2	362.6	362.8	363.2	363.5	363.6	363.7
135°	382.3	382.2	382.1	382.0	382.2	382.5	382.9	383.2	383.6	383.7	383.9
137.5°	401.1	401.1	401.1	401.2	401.4	401.7	402.2	402.5	402.9	403.1	403.3
140°	413.4	413.5	413.7	413.9	414.1	414.2	414.5	414.7	414.8	415.1	415.3
142.5°	424.5	424.8	425.1	425.4	425.6	425.7	425.9	425.9	426.0	426.2	426.4
145°	441.2	441.4	441.7	442.0	442.1	442.1	442.1	442.1	442.1	442.2	442.3
147.5°	454.8	455.2	455.7	456.2	456.4	456.3	456.2	456.2	456.1	456.2	456.2
150°	464.3	464.7	465.0	465.4	465.5	465.4	465.3	465.2	465.1	465.1	465.1
152.5°	472.3	472.6	472.9	473.2	473.2	473.1	472.9	472.8	472.6	472.8	472.9
155°	483.5	483.6	483.7	483.8	483.7	483.5	483.2	482.9	482.7	483.0	483.4
157.5°	493.0	492.9	492.9	492.8	492.7	492.4	492.1	491.8	491.5	492.0	492.4
160°	498.4	498.2	497.9	497.7	497.5	497.4	497.3	497.2	497.1	497.7	498.2
162.5°	503.3	503.0	502.7	502.4	502.1	502.0	502.0	501.9	501.8	502.3	502.8
165°	509.5	509.1	508.7	508.2	508.1	508.1	508.1	508.1	508.1	508.8	509.5
167.5°	514.5	514.1	513.7	513.2	512.9	512.9	512.8	512.8	512.7	513.5	514.3
170°	517.3	516.8	516.3	515.7	515.5	515.6	515.7	515.7	515.8	516.5	517.2
172.5°	519.2	518.7	518.1	517.6	517.4	517.5	517.5	517.6	517.7	518.4	519.1
175°	521.2	520.6	520.1	519.6	519.4	519.5	519.6	519.7	519.8	520.6	521.3
177.5°	522.2	521.7	521.2	520.7	520.6	520.6	520.8	520.9	521.1	521.6	522.2
180°	521.7	521.7	521.7	521.7	521.7	521.7	521.7	521.7	521.7	521.7	521.7



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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°	13.0	12.6	13.2	12.7	12.7	12.3	12.8
90°	10.2	10.7	11.0	11.2	11.4	11.5	11.7
92.5°	9.8	10.3	10.6	10.7	10.7	10.8	10.8
95°	10.2	10.7	10.9	11.0	11.1	11.2	11.3
97.5°	10.4	10.5	10.6	10.7	10.8	10.8	10.9
100°	12.7	11.3	10.6	10.7	10.8	10.8	10.9
102.5°	35.0	19.1	11.2	11.2	11.2	11.2	11.3
105°	124.1	124.8	123.7	120.5	117.4	114.3	111.2
107.5°	152.9	153.3	153.7	154.0	154.3	154.6	155.0
110°	172.6	172.8	173.0	173.2	173.5	173.7	174.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	191.7	191.6	191.7	192.1	192.4	192.8	193.0
115°	220.6	220.8	220.8	220.8	220.8	220.8	220.8
117.5°	249.3	249.3	249.3	249.2	249.2	249.2	249.1
120°	267.4	267.6	267.6	267.4	267.3	267.1	266.9
122.5°	285.0	285.1	285.1	284.9	284.7	284.6	284.4
125°	309.8	310.0	310.2	310.3	310.4	310.5	310.6
127.5°	334.0	334.0	333.9	333.8	333.7	333.7	333.6
130°	349.1	349.2	349.2	349.2	349.2	349.2	349.2
132.5°	363.8	363.9	363.9	363.8	363.8	363.7	363.6
135°	384.1	384.3	384.4	384.6	384.8	385.0	385.1
137.5°	403.5	403.7	403.7	403.7	403.6	403.6	403.6
140°	415.6	415.9	416.0	416.1	416.2	416.3	416.4
142.5°	426.6	426.8	426.9	426.9	427.0	427.0	427.0
145°	442.4	442.5	442.6	442.7	442.9	443.1	443.2
147.5°	456.2	456.3	456.4	456.5	456.6	456.7	456.8
150°	465.1	465.1	465.2	465.3	465.4	465.5	465.5
152.5°	473.0	473.2	473.2	473.2	473.1	473.0	473.0
155°	483.7	484.1	484.1	483.9	483.6	483.4	483.1
157.5°	492.8	493.3	493.3	492.8	492.4	492.0	491.5
160°	498.7	499.2	499.2	498.7	498.2	497.7	497.1
162.5°	503.3	503.9	503.9	503.3	502.7	502.0	501.5
165°	510.1	510.8	510.7	510.0	509.2	508.4	507.6
167.5°	515.1	515.8	515.7	514.9	514.0	513.2	512.3
170°	517.9	518.7	518.6	517.6	516.8	515.9	515.1
172.5°	519.8	520.5	520.4	519.4	518.5	517.5	516.6
175°	522.1	522.9	522.7	521.7	520.6	519.6	518.6
177.5°	522.7	523.3	523.1	522.4	521.5	520.6	519.9
180°	521.7	521.7	521.7	521.7	521.7	521.7	521.7

(END OF REPORT)