

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: P333076-935

Luminaire Tested: **S124RDIW-S1020D470U935-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333076-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,
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-A1
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 470 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5135.4 lumens
Efficiency: N/A
Efficacy: 111.2 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

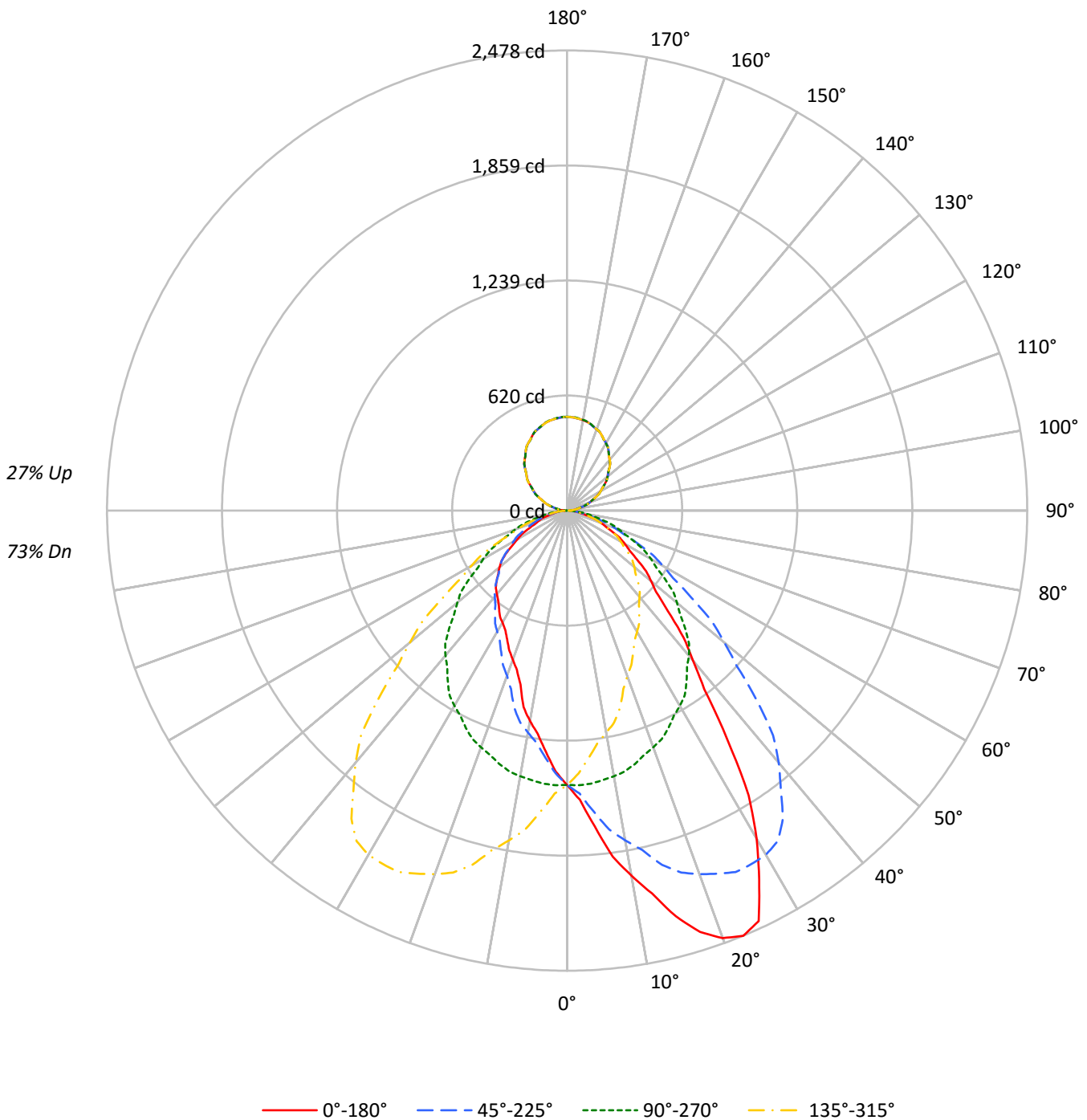
Input Watts (W): 46.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	113	113	113	107	107	107	107	96	96	96	86	86	86	77	77	77	73
1	104	99	96	92	98	94	91	88	85	83	80	77	75	73	69	68	66	63
2	95	88	82	76	90	83	78	73	76	71	68	68	65	62	62	59	57	54
3	87	78	70	65	82	74	67	62	67	62	58	61	57	53	55	52	49	46
4	80	69	61	55	76	66	59	53	60	54	50	55	50	46	50	46	43	40
5	74	62	54	48	70	59	52	46	54	48	43	50	45	41	45	41	38	35
6	68	56	48	42	65	54	46	41	49	43	38	45	40	36	41	37	34	31
7	63	51	43	37	60	49	41	36	45	39	34	41	36	32	38	33	30	28
8	59	46	39	33	56	45	37	32	41	35	31	38	33	29	35	30	27	25
9	55	43	35	30	52	41	34	29	38	32	28	35	30	26	32	28	25	23
10	51	39	32	27	49	38	31	26	35	29	25	32	27	24	30	26	22	21

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	2.8
10°-20°	431.8	8.4
20°-30°	675.3	13.2
30°-40°	750.8	14.6
40°-50°	666.1	13.0
50°-60°	519.0	10.1
60°-70°	339.8	6.6
70°-80°	167.1	3.3
80°-90°	42.7	0.8
90°-100°	33.3	0.6
100°-110°	98.6	1.9
110°-120°	167.3	3.3
120°-130°	220.6	4.3
130°-140°	247.7	4.8
140°-150°	243.4	4.7
150°-160°	204.8	4.0
160°-170°	136.2	2.7
170°-180°	47.7	0.9
0°-30°	1250.3	24.3
0°-40°	2001.0	39.0
0°-60°	3186.1	62.0
0°-90°	3735.8	72.7
90°-120°	299.1	5.8
90°-150°	1010.9	19.7
90°-180°	1400.0	27.3
0°-180°	5135.4	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	7
95°	31	23	31	23	31	32
105°	95	91	95	91	95	100
115°	169	170	169	170	169	167
125°	246	248	246	248	246	219
135°	320	320	320	320	320	247
145°	389	388	389	388	389	243
155°	444	445	444	445	444	205
165°	483	484	483	484	483	136
175°	501	504	501	504	501	48
180°	504	504	504	504	504	



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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°	17.3	17.2	17.1	17.0	16.9	16.7	16.4	16.1	15.8	15.4	15.0
95°	30.8	30.8	30.8	30.8	30.8	30.7	30.4	30.1	29.9	29.6	29.0
97.5°	48.3	48.3	48.3	48.3	48.3	48.1	47.9	47.5	47.2	46.9	46.1
100°	60.4	60.4	60.4	60.4	60.4	60.4	60.2	60.0	59.8	59.7	58.9
102.5°	74.2	74.1	74.0	74.0	74.0	73.8	73.5	73.3	73.0	72.8	72.1
105°	95.2	95.0	94.7	94.5	94.2	93.9	93.7	93.4	93.1	92.8	92.5
107.5°	115.6	115.6	115.7	115.7	115.7	115.6	115.4	115.1	114.9	114.6	114.6
110°	130.3	130.0	129.8	129.5	129.2	129.2	129.4	129.6	129.8	129.9	130.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	145.3	145.3	145.2	145.2	145.1	145.1	145.1	145.2	145.2	145.3	145.3
115°	168.6	168.7	168.8	168.8	168.9	169.0	169.1	169.2	169.3	169.4	169.5
117.5°	190.7	190.9	191.1	191.2	191.4	191.7	191.9	192.3	192.5	192.8	193.0
120°	207.6	207.4	207.2	207.1	206.9	207.0	207.4	207.8	208.3	208.7	209.0
122.5°	221.6	221.9	222.2	222.6	222.8	223.2	223.4	223.8	224.0	224.4	224.5
125°	245.8	246.0	246.2	246.3	246.5	246.7	246.8	247.0	247.2	247.4	247.5
127.5°	268.2	268.4	268.5	268.6	268.7	268.9	269.1	269.2	269.4	269.6	269.8
130°	282.8	283.2	283.5	283.9	284.2	284.5	284.6	284.8	285.0	285.2	285.2
132.5°	298.5	298.6	298.8	298.9	299.0	299.2	299.4	299.5	299.7	299.9	300.0
135°	319.9	320.2	320.5	320.7	321.0	321.2	321.3	321.5	321.7	321.8	321.8
137.5°	342.5	342.4	342.3	342.3	342.2	342.3	342.6	342.8	343.0	343.3	343.1
140°	356.2	356.3	356.4	356.5	356.5	356.6	356.7	356.8	356.9	357.0	357.0
142.5°	370.0	370.0	370.0	370.0	370.0	370.1	370.1	370.1	370.1	370.1	370.1
145°	388.6	388.8	389.1	389.3	389.6	389.8	389.9	389.9	390.0	390.1	390.0
147.5°	407.5	407.6	407.7	407.8	407.9	407.9	407.9	408.0	408.1	408.2	408.3
150°	419.0	419.1	419.2	419.3	419.4	419.4	419.4	419.4	419.4	419.4	419.4
152.5°	429.6	429.9	430.1	430.3	430.5	430.6	430.3	430.2	429.9	429.7	429.6
155°	444.4	444.7	445.1	445.4	445.7	445.7	445.4	445.1	444.7	444.4	444.4
157.5°	457.5	457.9	458.1	458.5	458.7	458.7	458.5	458.2	458.0	457.7	457.7
160°	465.0	465.5	466.0	466.4	466.8	466.9	466.7	466.4	466.1	465.9	466.0
162.5°	472.9	473.3	473.7	474.2	474.6	474.6	474.2	473.6	473.2	472.7	472.8
165°	483.0	483.4	483.7	484.1	484.4	484.3	483.8	483.3	482.8	482.2	482.4
167.5°	490.3	490.8	491.4	491.9	492.4	492.4	491.9	491.4	490.9	490.3	490.3
170°	494.3	494.9	495.5	496.1	496.7	496.8	496.3	495.8	495.2	494.7	494.6
172.5°	497.7	498.3	498.9	499.6	500.2	500.2	499.6	499.0	498.4	497.8	497.8
175°	501.4	502.0	502.6	503.2	503.8	503.8	503.2	502.6	502.0	501.4	501.4
177.5°	503.3	503.8	504.4	504.9	505.4	505.5	505.0	504.5	504.0	503.5	503.5
180°	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5



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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°	14.5	14.0	13.5	12.7	11.6	10.5	9.5	8.4	9.5	10.5	11.6
95°	28.4	27.8	27.2	26.5	25.7	25.0	24.2	23.4	24.2	25.0	25.7
97.5°	45.5	44.8	44.1	43.4	42.8	42.1	41.5	40.9	41.5	42.1	42.8
100°	58.1	57.3	56.6	56.1	55.6	55.3	54.9	54.6	54.9	55.3	55.6
102.5°	71.4	70.7	70.0	69.6	69.4	69.2	69.1	69.0	69.1	69.2	69.4
105°	92.1	91.8	91.4	91.3	91.2	91.1	91.0	90.9	91.0	91.1	91.2
107.5°	114.5	114.5	114.4	114.3	114.3	114.2	114.0	113.9	114.0	114.2	114.3
110°	130.1	130.2	130.3	130.2	130.0	129.8	129.7	129.5	129.7	129.8	130.0



TEST NUMBER: P333076-935

CATALOG NUMBER: S124RDIW-S1020D470U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	145.5	145.7	145.9	145.9	145.9	145.9	145.8	145.8	145.8	145.9	145.9
115°	169.7	169.9	170.0	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.1
117.5°	193.0	193.2	193.3	193.3	193.3	193.2	193.1	193.0	193.1	193.2	193.3
120°	209.2	209.5	209.7	209.7	209.4	209.1	208.7	208.4	208.7	209.1	209.4
122.5°	224.5	224.7	224.8	224.8	224.6	224.5	224.4	224.3	224.4	224.5	224.6
125°	247.5	247.6	247.7	247.7	247.7	247.7	247.7	247.7	247.7	247.7	247.7
127.5°	269.8	270.0	270.2	270.1	269.8	269.6	269.3	269.1	269.3	269.6	269.8
130°	285.2	285.2	285.2	285.1	284.8	284.6	284.3	284.0	284.3	284.6	284.8
132.5°	300.0	300.1	300.1	300.1	299.9	299.7	299.5	299.3	299.5	299.7	299.9
135°	321.8	321.8	321.8	321.6	321.1	320.6	320.0	319.5	320.0	320.6	321.1
137.5°	343.0	342.9	342.7	342.5	342.2	342.0	341.8	341.6	341.8	342.0	342.2
140°	357.0	357.0	357.0	356.9	356.7	356.5	356.4	356.2	356.4	356.5	356.7
142.5°	370.2	370.3	370.4	370.3	370.1	370.0	369.8	369.6	369.8	370.0	370.1
145°	389.9	389.9	389.8	389.6	389.3	388.9	388.6	388.2	388.6	388.9	389.3
147.5°	408.3	408.4	408.5	408.3	407.9	407.4	407.0	406.7	407.0	407.4	407.9
150°	419.4	419.4	419.4	419.2	418.9	418.5	418.2	417.8	418.2	418.5	418.9
152.5°	429.6	429.5	429.5	429.3	429.1	428.9	428.7	428.4	428.7	428.9	429.1
155°	444.5	444.6	444.7	444.8	444.8	444.8	444.8	444.8	444.8	444.8	444.8
157.5°	457.8	457.8	457.8	457.9	458.1	458.2	458.3	458.5	458.3	458.2	458.1
160°	466.1	466.1	466.2	466.3	466.4	466.5	466.6	466.7	466.6	466.5	466.4
162.5°	472.9	472.9	473.0	473.2	473.5	473.6	473.9	474.2	473.9	473.6	473.5
165°	482.6	482.8	482.9	483.1	483.4	483.6	483.9	484.1	483.9	483.6	483.4
167.5°	490.3	490.3	490.3	490.4	490.9	491.2	491.5	491.9	491.5	491.2	490.9
170°	494.6	494.5	494.4	494.6	495.0	495.4	495.8	496.3	495.8	495.4	495.0
172.5°	497.8	497.7	497.7	497.9	498.3	498.7	499.0	499.4	499.0	498.7	498.3
175°	501.5	501.6	501.7	502.0	502.4	502.8	503.3	503.7	503.3	502.8	502.4
177.5°	503.5	503.5	503.5	503.7	504.0	504.4	504.7	505.1	504.7	504.4	504.0
180°	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5



TEST NUMBER: P333076-935

CATALOG NUMBER: S124RDIW-S1020D470U935-4F0-1E-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°	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°	12.7	13.5	14.0	14.5	15.0	15.4	15.8	16.1	16.4	16.7	16.9
95°	26.5	27.2	27.8	28.4	29.0	29.6	29.9	30.1	30.4	30.7	30.8
97.5°	43.4	44.1	44.8	45.5	46.1	46.9	47.2	47.5	47.9	48.1	48.3
100°	56.1	56.6	57.3	58.1	58.9	59.7	59.8	60.0	60.2	60.4	60.4
102.5°	69.6	70.0	70.7	71.4	72.1	72.8	73.0	73.3	73.5	73.8	74.0
105°	91.3	91.4	91.8	92.1	92.5	92.8	93.1	93.4	93.7	93.9	94.2
107.5°	114.3	114.4	114.5	114.5	114.6	114.6	114.9	115.1	115.4	115.6	115.7
110°	130.2	130.3	130.2	130.1	130.0	129.9	129.8	129.6	129.4	129.2	129.2



TEST NUMBER: P333076-935

CATALOG NUMBER: S124RDIW-S1020D470U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	145.9	145.9	145.7	145.5	145.3	145.3	145.2	145.2	145.1	145.1	145.1
115°	170.1	170.0	169.9	169.7	169.5	169.4	169.3	169.2	169.1	169.0	168.9
117.5°	193.3	193.3	193.2	193.0	193.0	192.8	192.5	192.3	191.9	191.7	191.4
120°	209.7	209.7	209.5	209.2	209.0	208.7	208.3	207.8	207.4	207.0	206.9
122.5°	224.8	224.8	224.7	224.5	224.5	224.4	224.0	223.8	223.4	223.2	222.8
125°	247.7	247.7	247.6	247.5	247.5	247.4	247.2	247.0	246.8	246.7	246.5
127.5°	270.1	270.2	270.0	269.8	269.8	269.6	269.4	269.2	269.1	268.9	268.7
130°	285.1	285.2	285.2	285.2	285.2	285.2	285.0	284.8	284.6	284.5	284.2
132.5°	300.1	300.1	300.1	300.0	300.0	299.9	299.7	299.5	299.4	299.2	299.0
135°	321.6	321.8	321.8	321.8	321.8	321.8	321.7	321.5	321.3	321.2	321.0
137.5°	342.5	342.7	342.9	343.0	343.1	343.3	343.0	342.8	342.6	342.3	342.2
140°	356.9	357.0	357.0	357.0	357.0	357.0	356.9	356.8	356.7	356.6	356.5
142.5°	370.3	370.4	370.3	370.2	370.1	370.1	370.1	370.1	370.1	370.1	370.0
145°	389.6	389.8	389.9	389.9	390.0	390.1	390.0	389.9	389.9	389.8	389.6
147.5°	408.3	408.5	408.4	408.3	408.3	408.2	408.1	408.0	407.9	407.9	407.9
150°	419.2	419.4	419.4	419.4	419.4	419.4	419.4	419.4	419.4	419.4	419.4
152.5°	429.3	429.5	429.5	429.6	429.6	429.7	429.9	430.2	430.3	430.6	430.5
155°	444.8	444.7	444.6	444.5	444.4	444.4	444.7	445.1	445.4	445.7	445.7
157.5°	457.9	457.8	457.8	457.8	457.7	457.7	458.0	458.2	458.5	458.7	458.7
160°	466.3	466.2	466.1	466.1	466.0	465.9	466.1	466.4	466.7	466.9	466.8
162.5°	473.2	473.0	472.9	472.9	472.8	472.7	473.2	473.6	474.2	474.6	474.6
165°	483.1	482.9	482.8	482.6	482.4	482.2	482.8	483.3	483.8	484.3	484.4
167.5°	490.4	490.3	490.3	490.3	490.3	490.3	490.9	491.4	491.9	492.4	492.4
170°	494.6	494.4	494.5	494.6	494.6	494.7	495.2	495.8	496.3	496.8	496.7
172.5°	497.9	497.7	497.7	497.8	497.8	497.8	498.4	499.0	499.6	500.2	500.2
175°	502.0	501.7	501.6	501.5	501.4	501.4	502.0	502.6	503.2	503.8	503.8
177.5°	503.7	503.5	503.5	503.5	503.5	503.5	504.0	504.5	505.0	505.5	505.4
180°	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5



TEST NUMBER: P333076-935

CATALOG NUMBER: S124RDIW-S1020D470U935-4F0-1E-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°	13.2	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°	17.0	17.1	17.2	17.3	17.2	17.1	17.0	16.9	16.7	16.4	16.1
95°	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.7	30.4	30.1
97.5°	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.1	47.9	47.5
100°	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.2	60.0
102.5°	74.0	74.0	74.1	74.2	74.1	74.0	74.0	74.0	73.8	73.5	73.3
105°	94.5	94.7	95.0	95.2	95.0	94.7	94.5	94.2	93.9	93.7	93.4
107.5°	115.7	115.7	115.6	115.6	115.6	115.7	115.7	115.7	115.6	115.4	115.1
110°	129.5	129.8	130.0	130.3	130.0	129.8	129.5	129.2	129.2	129.4	129.6



TEST NUMBER: P333076-935

CATALOG NUMBER: S124RDIW-S1020D470U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	145.2	145.2	145.3	145.3	145.3	145.2	145.2	145.1	145.1	145.1	145.2
115°	168.8	168.8	168.7	168.6	168.7	168.8	168.8	168.9	169.0	169.1	169.2
117.5°	191.2	191.1	190.9	190.7	190.9	191.1	191.2	191.4	191.7	191.9	192.3
120°	207.1	207.2	207.4	207.6	207.4	207.2	207.1	206.9	207.0	207.4	207.8
122.5°	222.6	222.2	221.9	221.6	221.9	222.2	222.6	222.8	223.2	223.4	223.8
125°	246.3	246.2	246.0	245.8	246.0	246.2	246.3	246.5	246.7	246.8	247.0
127.5°	268.6	268.5	268.4	268.2	268.4	268.5	268.6	268.7	268.9	269.1	269.2
130°	283.9	283.5	283.2	282.8	283.2	283.5	283.9	284.2	284.5	284.6	284.8
132.5°	298.9	298.8	298.6	298.5	298.6	298.8	298.9	299.0	299.2	299.4	299.5
135°	320.7	320.5	320.2	319.9	320.2	320.5	320.7	321.0	321.2	321.3	321.5
137.5°	342.3	342.3	342.4	342.5	342.4	342.3	342.3	342.2	342.3	342.6	342.8
140°	356.5	356.4	356.3	356.2	356.3	356.4	356.5	356.5	356.6	356.7	356.8
142.5°	370.0	370.0	370.0	370.0	370.0	370.0	370.0	370.0	370.1	370.1	370.1
145°	389.3	389.1	388.8	388.6	388.8	389.1	389.3	389.6	389.8	389.9	389.9
147.5°	407.8	407.7	407.6	407.5	407.6	407.7	407.8	407.9	407.9	407.9	408.0
150°	419.3	419.2	419.1	419.0	419.1	419.2	419.3	419.4	419.4	419.4	419.4
152.5°	430.3	430.1	429.9	429.6	429.9	430.1	430.3	430.5	430.6	430.3	430.2
155°	445.4	445.1	444.7	444.4	444.7	445.1	445.4	445.7	445.7	445.4	445.1
157.5°	458.5	458.1	457.9	457.5	457.9	458.1	458.5	458.7	458.7	458.5	458.2
160°	466.4	466.0	465.5	465.0	465.5	466.0	466.4	466.8	466.9	466.7	466.4
162.5°	474.2	473.7	473.3	472.9	473.3	473.7	474.2	474.6	474.6	474.2	473.6
165°	484.1	483.7	483.4	483.0	483.4	483.7	484.1	484.4	484.3	483.8	483.3
167.5°	491.9	491.4	490.8	490.3	490.8	491.4	491.9	492.4	492.4	491.9	491.4
170°	496.1	495.5	494.9	494.3	494.9	495.5	496.1	496.7	496.8	496.3	495.8
172.5°	499.6	498.9	498.3	497.7	498.3	498.9	499.6	500.2	500.2	499.6	499.0
175°	503.2	502.6	502.0	501.4	502.0	502.6	503.2	503.8	503.8	503.2	502.6
177.5°	504.9	504.4	503.8	503.3	503.8	504.4	504.9	505.4	505.5	505.0	504.5
180°	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5



TEST NUMBER: P333076-935

CATALOG NUMBER: S124RDIW-S1020D470U935-4F0-1E-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°	12.3	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°	15.8	15.4	15.0	14.5	14.0	13.5	12.7	11.6	10.5	9.5	8.4
95°	29.9	29.6	29.0	28.4	27.8	27.2	26.5	25.7	25.0	24.2	23.4
97.5°	47.2	46.9	46.1	45.5	44.8	44.1	43.4	42.8	42.1	41.5	40.9
100°	59.8	59.7	58.9	58.1	57.3	56.6	56.1	55.6	55.3	54.9	54.6
102.5°	73.0	72.8	72.1	71.4	70.7	70.0	69.6	69.4	69.2	69.1	69.0
105°	93.1	92.8	92.5	92.1	91.8	91.4	91.3	91.2	91.1	91.0	90.9
107.5°	114.9	114.6	114.6	114.5	114.5	114.4	114.3	114.3	114.2	114.0	113.9
110°	129.8	129.9	130.0	130.1	130.2	130.3	130.2	130.0	129.8	129.7	129.5



TEST NUMBER: P333076-935

CATALOG NUMBER: S124RDIW-S1020D470U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	145.2	145.3	145.3	145.5	145.7	145.9	145.9	145.9	145.9	145.8	145.8
115°	169.3	169.4	169.5	169.7	169.9	170.0	170.1	170.1	170.1	170.1	170.1
117.5°	192.5	192.8	193.0	193.0	193.2	193.3	193.3	193.3	193.2	193.1	193.0
120°	208.3	208.7	209.0	209.2	209.5	209.7	209.7	209.4	209.1	208.7	208.4
122.5°	224.0	224.4	224.5	224.5	224.7	224.8	224.8	224.6	224.5	224.4	224.3
125°	247.2	247.4	247.5	247.5	247.6	247.7	247.7	247.7	247.7	247.7	247.7
127.5°	269.4	269.6	269.8	269.8	270.0	270.2	270.1	269.8	269.6	269.3	269.1
130°	285.0	285.2	285.2	285.2	285.2	285.2	285.1	284.8	284.6	284.3	284.0
132.5°	299.7	299.9	300.0	300.0	300.1	300.1	300.1	299.9	299.7	299.5	299.3
135°	321.7	321.8	321.8	321.8	321.8	321.8	321.6	321.1	320.6	320.0	319.5
137.5°	343.0	343.3	343.1	343.0	342.9	342.7	342.5	342.2	342.0	341.8	341.6
140°	356.9	357.0	357.0	357.0	357.0	357.0	356.9	356.7	356.5	356.4	356.2
142.5°	370.1	370.1	370.1	370.2	370.3	370.4	370.3	370.1	370.0	369.8	369.6
145°	390.0	390.1	390.0	389.9	389.9	389.8	389.6	389.3	388.9	388.6	388.2
147.5°	408.1	408.2	408.3	408.3	408.4	408.5	408.3	407.9	407.4	407.0	406.7
150°	419.4	419.4	419.4	419.4	419.4	419.4	419.2	418.9	418.5	418.2	417.8
152.5°	429.9	429.7	429.6	429.6	429.5	429.5	429.3	429.1	428.9	428.7	428.4
155°	444.7	444.4	444.4	444.5	444.6	444.7	444.8	444.8	444.8	444.8	444.8
157.5°	458.0	457.7	457.7	457.8	457.8	457.8	457.9	458.1	458.2	458.3	458.5
160°	466.1	465.9	466.0	466.1	466.1	466.2	466.3	466.4	466.5	466.6	466.7
162.5°	473.2	472.7	472.8	472.9	472.9	473.0	473.2	473.5	473.6	473.9	474.2
165°	482.8	482.2	482.4	482.6	482.8	482.9	483.1	483.4	483.6	483.9	484.1
167.5°	490.9	490.3	490.3	490.3	490.3	490.3	490.4	490.9	491.2	491.5	491.9
170°	495.2	494.7	494.6	494.6	494.5	494.4	494.6	495.0	495.4	495.8	496.3
172.5°	498.4	497.8	497.8	497.8	497.7	497.7	497.9	498.3	498.7	499.0	499.4
175°	502.0	501.4	501.4	501.5	501.6	501.7	502.0	502.4	502.8	503.3	503.7
177.5°	504.0	503.5	503.5	503.5	503.5	503.5	503.7	504.0	504.4	504.7	505.1
180°	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5



TEST NUMBER: P333076-935

CATALOG NUMBER: S124RDIW-S1020D470U935-4F0-1E-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°	16.1	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°	9.5	10.5	11.6	12.7	13.5	14.0	14.5	15.0	15.4	15.8	16.1
95°	24.2	25.0	25.7	26.5	27.2	27.8	28.4	29.0	29.6	29.9	30.1
97.5°	41.5	42.1	42.8	43.4	44.1	44.8	45.5	46.1	46.9	47.2	47.5
100°	54.9	55.3	55.6	56.1	56.6	57.3	58.1	58.9	59.7	59.8	60.0
102.5°	69.1	69.2	69.4	69.6	70.0	70.7	71.4	72.1	72.8	73.0	73.3
105°	91.0	91.1	91.2	91.3	91.4	91.8	92.1	92.5	92.8	93.1	93.4
107.5°	114.0	114.2	114.3	114.3	114.4	114.5	114.5	114.6	114.6	114.9	115.1
110°	129.7	129.8	130.0	130.2	130.3	130.2	130.1	130.0	129.9	129.8	129.6



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	145.8	145.9	145.9	145.9	145.9	145.7	145.5	145.3	145.3	145.2	145.2
115°	170.1	170.1	170.1	170.1	170.0	169.9	169.7	169.5	169.4	169.3	169.2
117.5°	193.1	193.2	193.3	193.3	193.3	193.2	193.0	193.0	192.8	192.5	192.3
120°	208.7	209.1	209.4	209.7	209.7	209.5	209.2	209.0	208.7	208.3	207.8
122.5°	224.4	224.5	224.6	224.8	224.8	224.7	224.5	224.5	224.4	224.0	223.8
125°	247.7	247.7	247.7	247.7	247.7	247.6	247.5	247.5	247.4	247.2	247.0
127.5°	269.3	269.6	269.8	270.1	270.2	270.0	269.8	269.8	269.6	269.4	269.2
130°	284.3	284.6	284.8	285.1	285.2	285.2	285.2	285.2	285.2	285.0	284.8
132.5°	299.5	299.7	299.9	300.1	300.1	300.1	300.0	300.0	299.9	299.7	299.5
135°	320.0	320.6	321.1	321.6	321.8	321.8	321.8	321.8	321.8	321.7	321.5
137.5°	341.8	342.0	342.2	342.5	342.7	342.9	343.0	343.1	343.3	343.0	342.8
140°	356.4	356.5	356.7	356.9	357.0	357.0	357.0	357.0	357.0	356.9	356.8
142.5°	369.8	370.0	370.1	370.3	370.4	370.3	370.2	370.1	370.1	370.1	370.1
145°	388.6	388.9	389.3	389.6	389.8	389.9	389.9	390.0	390.1	390.0	389.9
147.5°	407.0	407.4	407.9	408.3	408.5	408.4	408.3	408.3	408.2	408.1	408.0
150°	418.2	418.5	418.9	419.2	419.4	419.4	419.4	419.4	419.4	419.4	419.4
152.5°	428.7	428.9	429.1	429.3	429.5	429.5	429.6	429.6	429.7	429.9	430.2
155°	444.8	444.8	444.8	444.8	444.7	444.6	444.5	444.4	444.4	444.7	445.1
157.5°	458.3	458.2	458.1	457.9	457.8	457.8	457.8	457.7	457.7	458.0	458.2
160°	466.6	466.5	466.4	466.3	466.2	466.1	466.1	466.0	465.9	466.1	466.4
162.5°	473.9	473.6	473.5	473.2	473.0	472.9	472.9	472.8	472.7	473.2	473.6
165°	483.9	483.6	483.4	483.1	482.9	482.8	482.6	482.4	482.2	482.8	483.3
167.5°	491.5	491.2	490.9	490.4	490.3	490.3	490.3	490.3	490.3	490.9	491.4
170°	495.8	495.4	495.0	494.6	494.4	494.5	494.6	494.6	494.7	495.2	495.8
172.5°	499.0	498.7	498.3	497.9	497.7	497.7	497.8	497.8	497.8	498.4	499.0
175°	503.3	502.8	502.4	502.0	501.7	501.6	501.5	501.4	501.4	502.0	502.6
177.5°	504.7	504.4	504.0	503.7	503.5	503.5	503.5	503.5	503.5	504.0	504.5
180°	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5



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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°	16.4	16.7	16.9	17.0	17.1	17.2	17.3
95°	30.4	30.7	30.8	30.8	30.8	30.8	30.8
97.5°	47.9	48.1	48.3	48.3	48.3	48.3	48.3
100°	60.2	60.4	60.4	60.4	60.4	60.4	60.4
102.5°	73.5	73.8	74.0	74.0	74.0	74.1	74.2
105°	93.7	93.9	94.2	94.5	94.7	95.0	95.2
107.5°	115.4	115.6	115.7	115.7	115.7	115.6	115.6
110°	129.4	129.2	129.2	129.5	129.8	130.0	130.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	145.1	145.1	145.1	145.2	145.2	145.3	145.3
115°	169.1	169.0	168.9	168.8	168.8	168.7	168.6
117.5°	191.9	191.7	191.4	191.2	191.1	190.9	190.7
120°	207.4	207.0	206.9	207.1	207.2	207.4	207.6
122.5°	223.4	223.2	222.8	222.6	222.2	221.9	221.6
125°	246.8	246.7	246.5	246.3	246.2	246.0	245.8
127.5°	269.1	268.9	268.7	268.6	268.5	268.4	268.2
130°	284.6	284.5	284.2	283.9	283.5	283.2	282.8
132.5°	299.4	299.2	299.0	298.9	298.8	298.6	298.5
135°	321.3	321.2	321.0	320.7	320.5	320.2	319.9
137.5°	342.6	342.3	342.2	342.3	342.3	342.4	342.5
140°	356.7	356.6	356.5	356.5	356.4	356.3	356.2
142.5°	370.1	370.1	370.0	370.0	370.0	370.0	370.0
145°	389.9	389.8	389.6	389.3	389.1	388.8	388.6
147.5°	407.9	407.9	407.9	407.8	407.7	407.6	407.5
150°	419.4	419.4	419.4	419.3	419.2	419.1	419.0
152.5°	430.3	430.6	430.5	430.3	430.1	429.9	429.6
155°	445.4	445.7	445.7	445.4	445.1	444.7	444.4
157.5°	458.5	458.7	458.7	458.5	458.1	457.9	457.5
160°	466.7	466.9	466.8	466.4	466.0	465.5	465.0
162.5°	474.2	474.6	474.6	474.2	473.7	473.3	472.9
165°	483.8	484.3	484.4	484.1	483.7	483.4	483.0
167.5°	491.9	492.4	492.4	491.9	491.4	490.8	490.3
170°	496.3	496.8	496.7	496.1	495.5	494.9	494.3
172.5°	499.6	500.2	500.2	499.6	498.9	498.3	497.7
175°	503.2	503.8	503.8	503.2	502.6	502.0	501.4
177.5°	505.0	505.5	505.4	504.9	504.4	503.8	503.3
180°	504.5	504.5	504.5	504.5	504.5	504.5	504.5

(END OF REPORT)