

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: P332451-927

Luminaire Tested: **S123RDIW-S1000D460U927-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332451-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIW-S1000D460U927-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 460 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4403.1 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Direct

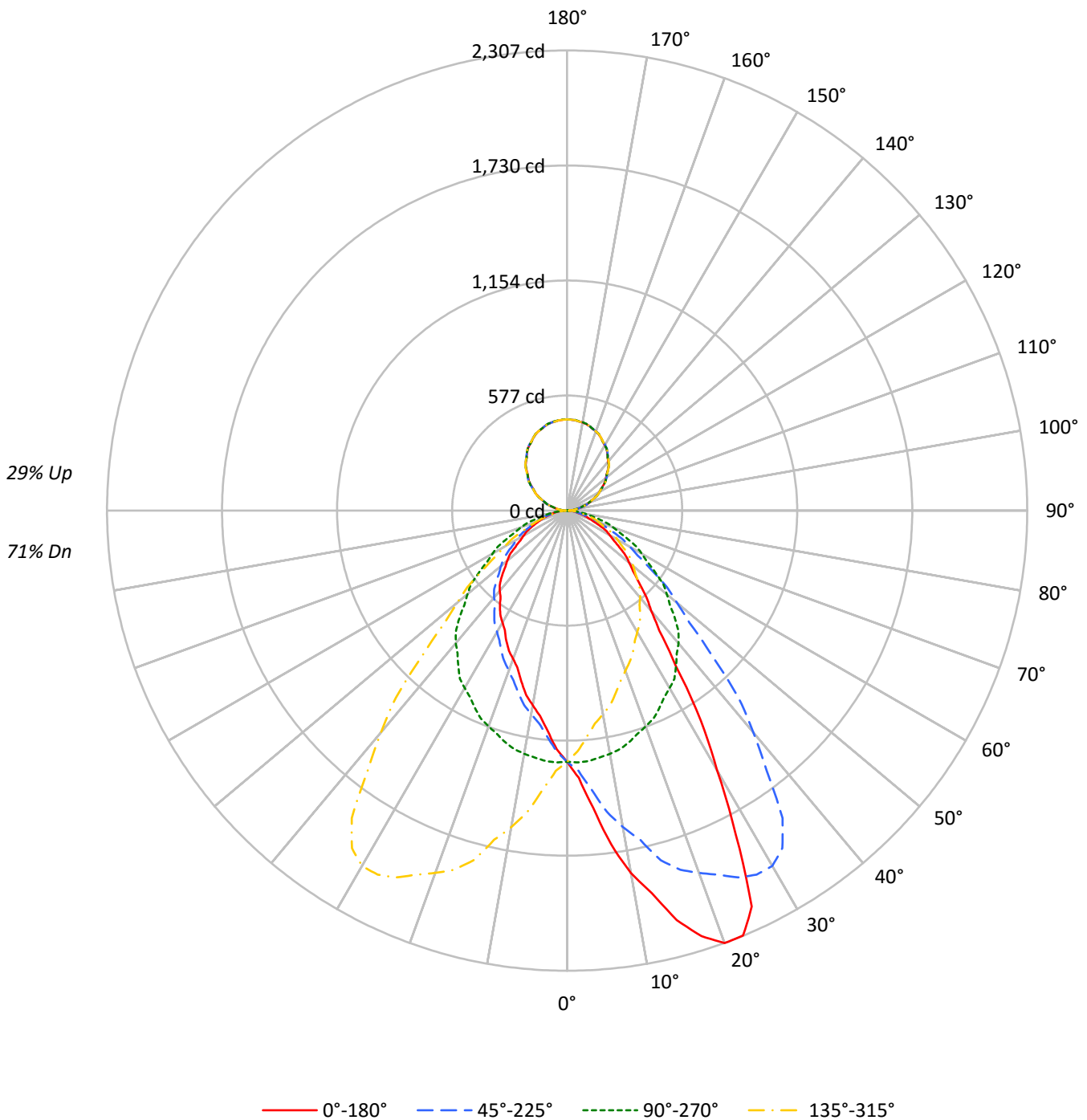
Input Watts (W): 46.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																														
0	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	71																
1	103	99	96	92	98	94	91	88	85	82	80	76	74	73	68	67	66	66	66	66	66	66	66	66	66	66	66	66	66	62																
2	95	88	82	77	90	83	78	74	75	71	68	68	65	62	61	59	57	57	57	57	57	57	57	57	57	57	57	57	57	53																
3	87	78	71	65	82	74	68	63	67	62	58	61	57	53	55	52	49	49	49	49	49	49	49	49	49	49	49	49	49	46																
4	80	70	62	56	76	66	59	54	60	55	50	55	50	47	50	46	43	43	43	43	43	43	43	43	43	43	43	43	43	40																
5	74	62	54	49	70	60	52	47	54	48	44	50	45	41	45	41	38	38	38	38	38	38	38	38	38	38	38	38	38	35																
6	68	56	48	43	65	54	47	41	49	43	39	45	40	36	41	37	34	34	34	34	34	34	34	34	34	34	34	34	34	31																
7	64	51	43	38	60	49	42	37	45	39	35	41	36	32	38	34	30	30	30	30	30	30	30	30	30	30	30	30	30	28																
8	59	47	39	34	56	45	38	33	41	35	31	38	33	29	35	31	27	27	27	27	27	27	27	27	27	27	27	27	27	25																
9	55	43	36	30	53	41	34	30	38	32	28	35	30	26	32	28	25	25	25	25	25	25	25	25	25	25	25	25	25	23																
10	52	40	32	28	49	38	31	27	35	30	26	33	28	24	30	26	23	23	23	23	23	23	23	23	23	23	23	23	23	21																

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13555	13555	13555	13555
5°	16159	13613	11988	13613
10°	20176	13535	10831	13535
15°	23682	13397	9877	13397
20°	26431	13190	9065	13190
25°	26008	12973	8568	12973
30°	18695	12771	8054	12771
35°	12482	12510	7721	12510
40°	9197	12197	7378	12197
45°	7715	11645	7042	11645
50°	6807	10923	6571	10923
55°	5970	10098	5928	10098
60°	5315	9309	5431	9309
65°	4669	8458	5053	8458
70°	3666	7704	4614	7704
75°	3227	6729	4213	6729
80°	2808	5715	4147	5715
85°	2260	4594	4397	4594



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.8	2.8
10°-20°	386.9	8.8
20°-30°	607.8	13.8
30°-40°	634.2	14.4
40°-50°	542.7	12.3
50°-60°	413.6	9.4
60°-70°	265.1	6.0
70°-80°	127.5	2.9
80°-90°	35.1	0.8
90°-100°	29.8	0.7
100°-110°	89.1	2.0
110°-120°	151.6	3.4
120°-130°	199.4	4.5
130°-140°	224.1	5.1
140°-150°	220.3	5.0
150°-160°	185.4	4.2
160°-170°	123.4	2.8
170°-180°	43.2	1.0
0°-30°	1118.6	25.4
0°-40°	1752.8	39.8
0°-60°	2709.1	61.5
0°-90°	3136.9	71.2
90°-120°	270.4	6.1
90°-150°	914.1	20.8
90°-180°	1266.0	28.8
0°-180°	4403.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1259	1259	1259	1259	1259	
5°	1496	1260	1110	1260	1496	154
15°	2125	1202	886	1202	2125	603
25°	2190	1092	721	1092	2190	941
35°	950	952	588	952	950	623
45°	507	765	463	765	507	398
55°	318	538	316	538	318	288
65°	183	332	198	332	183	180
75°	78	162	101	162	78	83
85°	18	37	36	37	18	21
90°	11	0	11	0	11	6
95°	28	21	28	21	28	29
105°	86	81	86	81	86	91
115°	153	153	153	153	153	151
125°	221	223	221	223	221	197
135°	289	290	289	290	289	222
145°	352	352	352	352	352	219
155°	402	402	402	402	402	185
165°	437	438	437	438	437	123
175°	454	456	454	456	454	43
180°	457	457	457	457	457	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3
2.5°	1341.3	1343.0	1337.4	1336.6	1330.1	1328.3	1328.3	1319.3	1313.7	1306.4	1302.0
5°	1495.5	1504.1	1499.8	1490.1	1473.9	1470.1	1459.9	1443.8	1425.4	1402.7	1391.9
7.5°	1688.1	1699.8	1695.3	1680.3	1663.3	1649.6	1620.8	1593.9	1556.3	1523.3	1495.1
10°	1845.9	1833.5	1823.8	1809.3	1793.6	1768.2	1738.0	1696.5	1648.6	1610.8	1568.8
12.5°	1964.1	1962.0	1949.7	1934.7	1912.6	1888.6	1851.5	1800.9	1745.2	1690.7	1642.5
15°	2125.2	2128.4	2120.3	2104.7	2073.4	2030.8	1974.8	1953.8	1873.9	1814.7	1755.3
17.5°	2236.6	2236.0	2234.9	2213.3	2181.4	2151.0	2099.0	2043.8	1971.5	1887.9	1808.1
20°	2307.4	2302.0	2303.0	2278.8	2255.1	2220.0	2169.4	2089.1	2029.7	1933.2	1850.8
22.5°	2305.6	2304.5	2308.7	2300.3	2283.1	2256.3	2216.4	2148.6	2072.8	1975.5	1882.7
25°	2189.8	2185.6	2210.9	2217.9	2245.4	2250.2	2238.4	2201.2	2129.5	2029.2	1914.4
27.5°	1832.7	1830.3	1877.4	1936.3	2010.9	2068.9	2124.9	2152.0	2129.5	2057.7	1942.6
30°	1504.1	1554.8	1578.5	1663.7	1758.6	1871.8	1970.9	2065.3	2088.5	2057.2	1962.9
32.5°	1248.8	1293.0	1312.8	1385.9	1474.3	1606.9	1755.8	1889.4	1983.7	2007.6	1950.8
35°	949.9	950.5	995.7	1028.1	1110.0	1246.4	1390.9	1569.9	1747.8	1882.5	1896.6
37.5°	758.0	760.7	788.1	820.3	881.8	953.9	1081.1	1229.9	1435.4	1642.4	1763.6
40°	654.5	659.3	679.9	711.6	755.8	810.2	909.5	1049.6	1221.1	1451.3	1639.4
42.5°	588.0	596.0	606.5	631.0	658.4	709.3	789.6	897.9	1053.8	1271.5	1488.5
45°	506.8	511.0	519.2	530.4	555.2	590.9	644.8	717.6	846.9	1022.2	1239.4
47.5°	447.0	444.7	453.3	462.5	479.0	503.2	539.3	598.7	691.0	831.6	1015.9
50°	406.5	405.9	411.9	418.9	434.5	452.3	482.0	526.7	600.0	716.4	885.2
52.5°	368.5	370.6	374.8	383.5	394.8	409.2	435.8	468.0	531.0	631.5	772.2
55°	318.1	319.7	325.6	330.5	338.6	353.1	369.8	396.8	439.9	510.0	625.9
57.5°	275.4	274.6	280.4	281.5	290.7	302.5	315.4	336.4	367.7	419.8	497.8
60°	246.9	245.3	250.2	253.9	258.8	268.5	279.2	299.8	324.6	362.8	429.7
62.5°	221.0	220.3	223.9	227.6	231.6	240.4	249.5	265.2	284.9	317.1	370.2
65°	183.3	184.9	186.6	188.1	190.3	195.7	204.3	215.1	228.5	251.2	289.5
67.5°	144.0	145.7	146.2	149.6	154.2	157.6	162.8	172.4	181.8	200.9	222.7
70°	116.5	115.9	116.5	118.0	124.0	129.9	137.0	143.9	149.9	163.3	181.6
72.5°	100.1	99.1	100.5	100.8	103.7	105.4	109.8	116.4	124.0	133.2	146.3
75°	77.6	77.6	77.6	77.6	79.8	80.9	82.5	84.1	86.8	91.1	100.8
77.5°	57.4	57.4	58.2	58.8	59.2	59.8	60.8	62.4	63.4	65.7	69.9
80°	45.3	45.8	45.3	45.8	45.8	46.9	47.5	49.0	49.6	52.3	53.9
82.5°	34.1	33.7	34.1	34.6	34.6	35.7	35.8	37.0	37.1	38.5	40.1
85°	18.3	17.3	18.3	17.8	18.9	17.8	18.3	19.4	19.4	20.0	22.1
87.5°	6.5	7.3	6.4	6.8	6.7	7.1	7.1	7.1	7.8	7.4	7.5
90°	10.8	10.6	10.5	10.3	10.1	9.9	9.6	9.3	9.0	8.6	7.6
92.5°	14.5	14.6	14.7	14.8	14.9	14.8	14.6	14.3	14.0	13.8	13.2
95°	28.0	28.0	28.0	28.0	28.0	27.8	27.5	27.2	26.9	26.5	25.9
97.5°	43.1	43.1	43.2	43.2	43.2	43.0	42.7	42.3	41.9	41.6	41.1
100°	54.6	54.4	54.3	54.1	53.9	53.7	53.5	53.2	53.0	52.8	52.4
102.5°	66.3	66.4	66.4	66.5	66.5	66.4	66.1	65.9	65.7	65.4	64.9
105°	85.5	85.3	85.2	85.0	84.8	84.7	84.7	84.7	84.7	84.7	84.0
107.5°	105.4	105.4	105.5	105.6	105.7	105.6	105.4	105.1	104.9	104.6	104.3
110°	118.8	119.0	119.1	119.3	119.5	119.4	119.1	118.7	118.4	118.1	118.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	133.2	133.2	133.2	133.2	133.3	133.2	132.8	132.4	132.0	131.6	131.6
115°	153.0	153.0	153.1	153.2	153.3	153.3	153.2	153.1	153.0	153.0	153.1
117.5°	172.9	173.2	173.4	173.6	173.9	174.0	174.0	174.0	174.0	174.0	174.3
120°	187.0	187.2	187.4	187.5	187.7	187.8	187.9	188.0	188.1	188.1	188.5
122.5°	200.5	200.7	201.0	201.2	201.5	201.6	201.8	202.1	202.2	202.5	202.7
125°	220.8	221.1	221.4	221.7	222.0	222.4	222.7	223.0	223.3	223.6	223.8
127.5°	241.0	241.3	241.7	242.1	242.4	242.8	243.3	243.8	244.2	244.6	244.8
130°	254.1	254.8	255.3	255.9	256.4	256.8	257.1	257.5	257.8	258.1	258.3
132.5°	267.9	268.4	268.8	269.3	269.7	270.1	270.5	270.8	271.2	271.6	271.8
135°	289.4	289.5	289.7	289.9	290.0	290.3	290.6	290.9	291.2	291.5	291.6
137.5°	308.2	308.6	308.9	309.1	309.4	309.7	310.1	310.5	310.8	311.1	310.9
140°	320.6	321.2	321.7	322.3	322.8	323.1	323.2	323.3	323.4	323.4	323.4
142.5°	333.2	333.7	334.1	334.5	334.9	335.2	335.3	335.3	335.4	335.5	335.4
145°	351.5	351.8	352.1	352.4	352.8	352.9	353.0	353.1	353.2	353.2	353.0
147.5°	367.7	368.1	368.6	369.2	369.6	369.9	369.9	369.9	369.9	369.9	369.6
150°	378.0	378.5	379.0	379.5	379.9	380.2	380.2	380.2	380.2	380.2	380.0
152.5°	388.1	388.5	388.9	389.4	389.8	389.9	389.8	389.6	389.5	389.4	389.3
155°	401.7	402.3	402.8	403.4	403.9	404.1	403.8	403.5	403.1	402.8	402.7
157.5°	414.2	414.5	415.0	415.5	415.9	416.0	415.7	415.3	414.9	414.6	414.5
160°	422.2	422.5	422.8	423.1	423.4	423.4	423.0	422.6	422.2	421.8	421.8
162.5°	428.2	428.7	429.2	429.8	430.2	430.3	429.9	429.5	429.1	428.7	428.6
165°	436.9	437.4	438.0	438.6	439.1	439.2	438.7	438.2	437.8	437.3	437.3
167.5°	444.3	444.8	445.3	445.8	446.2	446.2	445.8	445.3	444.8	444.3	444.3
170°	448.1	448.6	449.2	449.7	450.3	450.3	449.7	449.2	448.6	448.1	448.1
172.5°	450.9	451.5	452.0	452.6	453.1	453.1	452.7	452.2	451.7	451.1	451.1
175°	454.2	454.7	455.3	455.8	456.4	456.4	455.9	455.4	455.0	454.5	454.5
177.5°	455.8	456.3	456.8	457.2	457.6	457.6	457.3	456.9	456.5	456.1	456.1
180°	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3
2.5°	1300.3	1299.0	1293.0	1286.1	1277.0	1271.0	1266.2	1263.7	1255.9	1246.4	1239.9
5°	1380.6	1364.5	1347.3	1326.2	1306.8	1286.8	1274.5	1259.9	1242.1	1222.2	1208.2
7.5°	1466.7	1435.0	1400.8	1365.6	1330.7	1299.5	1271.8	1248.2	1219.9	1191.3	1171.2
10°	1532.7	1486.3	1438.4	1389.3	1344.5	1302.5	1270.1	1238.3	1204.4	1171.5	1146.7
12.5°	1592.6	1531.6	1476.3	1416.0	1358.8	1308.5	1261.9	1224.6	1183.7	1148.6	1120.4
15°	1668.5	1606.0	1539.1	1447.5	1371.5	1307.9	1251.3	1202.2	1152.6	1109.5	1082.0
17.5°	1739.5	1645.4	1555.5	1479.1	1380.3	1300.8	1231.8	1173.1	1118.6	1072.9	1039.1
20°	1768.8	1677.7	1580.1	1482.6	1385.5	1296.6	1216.2	1151.5	1095.0	1043.1	1011.9
22.5°	1786.5	1683.3	1580.6	1475.7	1372.5	1280.2	1200.7	1129.6	1068.2	1019.0	980.4
25°	1807.0	1684.2	1571.0	1467.4	1362.3	1262.0	1167.7	1092.3	1026.0	973.6	932.6
27.5°	1820.7	1676.1	1542.3	1427.2	1320.6	1220.8	1134.2	1054.2	987.0	931.7	887.7
30°	1823.3	1669.6	1520.3	1395.7	1287.4	1195.7	1104.1	1027.5	956.4	897.6	856.7
32.5°	1826.7	1653.7	1490.5	1358.2	1247.3	1156.5	1073.5	1000.4	927.5	869.6	827.8
35°	1812.5	1644.8	1445.3	1293.3	1182.3	1094.4	1019.5	952.0	880.4	824.3	781.7
37.5°	1751.2	1609.8	1398.5	1220.2	1104.1	1022.7	961.6	902.9	837.1	776.7	736.5
40°	1689.6	1575.3	1362.3	1175.8	1054.5	970.9	915.9	868.0	804.4	747.7	704.6
42.5°	1597.7	1528.3	1327.9	1129.2	998.4	917.9	871.5	826.6	770.7	713.2	672.7
45°	1429.2	1438.4	1257.2	1055.0	920.8	840.0	796.2	765.0	715.4	668.0	626.5
47.5°	1217.8	1303.5	1174.3	976.0	838.9	763.0	724.8	697.6	664.2	617.6	579.7
50°	1079.8	1202.2	1107.9	923.0	787.7	712.2	674.4	652.3	623.2	586.5	550.4
52.5°	952.6	1084.0	1027.6	863.9	732.0	663.0	626.1	607.9	584.8	550.3	517.6
55°	776.8	910.0	897.1	774.7	648.6	586.5	558.5	538.1	522.4	496.5	470.6
57.5°	628.4	754.6	761.3	675.5	575.0	513.7	489.6	474.2	464.0	444.4	420.5
60°	534.8	650.7	673.4	608.6	522.4	468.5	444.7	432.4	424.3	408.6	390.3
62.5°	457.2	555.8	581.5	534.9	471.9	421.4	402.9	390.9	385.5	372.0	355.8
65°	349.9	431.8	456.6	430.7	397.8	357.4	342.3	332.1	327.3	319.7	307.8
67.5°	263.1	322.8	350.0	331.8	319.9	294.4	284.8	279.2	275.0	269.7	259.8
70°	211.4	255.6	283.6	278.7	269.0	255.6	248.5	244.8	240.4	236.1	227.5
72.5°	169.9	200.3	226.6	229.1	221.2	218.5	212.3	210.7	208.1	203.0	198.2
75°	112.6	133.7	152.0	159.1	162.2	164.9	162.2	161.8	161.2	156.9	154.2
77.5°	73.8	85.2	96.7	108.7	113.8	117.4	118.3	120.3	118.8	116.5	115.3
80°	56.6	59.3	67.4	77.6	85.7	89.0	91.1	92.2	91.7	91.1	89.0
82.5°	41.1	43.3	47.1	54.3	61.2	66.5	67.8	67.6	68.8	69.1	67.4
85°	22.1	22.7	23.7	24.8	28.6	34.5	36.1	37.2	38.3	38.3	35.0
87.5°	8.2	7.6	8.2	8.1	9.2	9.4	11.9	13.9	14.5	12.9	13.1
90°	6.6	5.5	4.4	3.6	2.8	2.0	1.2	0.4	1.2	2.0	2.8
92.5°	12.6	12.0	11.4	10.9	10.3	9.7	9.3	8.7	9.3	9.7	10.3
95°	25.3	24.6	24.0	23.4	22.9	22.3	21.7	21.2	21.7	22.3	22.9
97.5°	40.6	40.2	39.7	39.3	38.9	38.4	38.0	37.6	38.0	38.4	38.9
100°	52.0	51.6	51.2	50.7	50.2	49.7	49.3	48.8	49.3	49.7	50.2
102.5°	64.3	63.8	63.3	62.9	62.6	62.3	62.0	61.7	62.0	62.3	62.6
105°	83.3	82.5	81.8	81.4	81.3	81.1	81.0	80.8	81.0	81.1	81.3
107.5°	104.0	103.8	103.5	103.3	103.1	103.1	103.0	102.9	103.0	103.1	103.1
110°	117.8	117.6	117.5	117.3	117.2	117.0	116.8	116.7	116.8	117.0	117.2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	131.6	131.5	131.5	131.4	131.3	131.3	131.1	131.0	131.1	131.3	131.3
115°	153.3	153.4	153.6	153.5	153.3	153.0	152.8	152.6	152.8	153.0	153.3
117.5°	174.4	174.7	174.8	174.9	174.8	174.6	174.4	174.3	174.4	174.6	174.8
120°	188.9	189.3	189.7	189.6	189.2	188.7	188.2	187.7	188.2	188.7	189.2
122.5°	202.9	203.1	203.3	203.2	202.9	202.6	202.2	201.8	202.2	202.6	202.9
125°	223.9	224.1	224.3	224.3	224.0	223.8	223.6	223.3	223.6	223.8	224.0
127.5°	244.9	245.2	245.3	245.2	244.6	244.2	243.6	243.1	243.6	244.2	244.6
130°	258.6	258.8	259.0	258.9	258.3	257.6	257.0	256.4	257.0	257.6	258.3
132.5°	272.0	272.1	272.4	272.1	271.5	270.8	270.1	269.5	270.1	270.8	271.5
135°	291.7	291.8	291.8	291.6	291.1	290.7	290.2	289.7	290.2	290.7	291.1
137.5°	310.7	310.5	310.3	310.0	309.6	309.2	308.8	308.4	308.8	309.2	309.6
140°	323.3	323.2	323.1	322.9	322.5	322.1	321.7	321.3	321.7	322.1	322.5
142.5°	335.3	335.1	334.9	334.7	334.3	333.9	333.5	333.1	333.5	333.9	334.3
145°	352.8	352.5	352.3	352.1	352.0	351.8	351.6	351.5	351.6	351.8	352.0
147.5°	369.4	369.2	368.9	368.7	368.4	368.1	367.8	367.6	367.8	368.1	368.4
150°	379.9	379.7	379.5	379.4	379.2	379.1	378.9	378.7	378.9	379.1	379.2
152.5°	389.2	389.0	389.0	388.8	388.6	388.4	388.2	387.9	388.2	388.4	388.6
155°	402.7	402.6	402.5	402.4	402.4	402.4	402.4	402.4	402.4	402.4	402.4
157.5°	414.5	414.5	414.4	414.4	414.5	414.6	414.7	414.8	414.7	414.6	414.5
160°	421.8	421.8	421.8	421.9	422.1	422.2	422.4	422.6	422.4	422.2	422.1
162.5°	428.6	428.5	428.5	428.6	428.7	429.0	429.2	429.4	429.2	429.0	428.7
165°	437.3	437.3	437.3	437.4	437.6	437.8	438.1	438.3	438.1	437.8	437.6
167.5°	444.2	444.1	444.0	444.2	444.5	444.8	445.1	445.4	445.1	444.8	444.5
170°	448.1	448.1	448.1	448.2	448.5	448.9	449.2	449.5	449.2	448.9	448.5
172.5°	451.1	451.1	451.1	451.3	451.7	452.0	452.3	452.7	452.3	452.0	451.7
175°	454.5	454.5	454.5	454.6	455.0	455.3	455.6	455.9	455.6	455.3	455.0
177.5°	456.1	456.1	456.1	456.3	456.5	456.8	457.0	457.3	457.0	456.8	456.5
180°	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0



TEST NUMBER: P332451-927

CATALOG NUMBER: S123RDIW-S1000D460U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3
2.5°	1237.8	1232.2	1228.3	1219.6	1214.1	1208.0	1202.0	1205.9	1205.5	1205.0	1205.0
5°	1196.3	1183.8	1172.6	1158.0	1148.8	1137.5	1128.9	1127.8	1130.0	1122.4	1118.1
7.5°	1155.1	1138.1	1122.1	1106.0	1089.0	1075.4	1066.9	1062.9	1057.4	1052.7	1047.9
10°	1126.2	1106.3	1090.6	1070.6	1052.3	1036.2	1026.0	1018.9	1015.1	1011.4	1004.3
12.5°	1096.5	1076.9	1057.0	1034.4	1017.0	998.2	990.5	982.7	975.5	971.2	961.6
15°	1052.9	1027.5	1006.5	982.8	963.4	945.1	934.3	918.6	916.5	911.1	901.4
17.5°	1009.2	981.7	952.7	935.2	913.2	894.1	877.7	872.5	857.1	851.3	842.8
20°	974.7	949.4	927.2	904.1	872.3	854.4	841.5	834.6	822.1	814.6	809.2
22.5°	944.9	919.2	893.7	866.6	840.3	820.4	811.0	800.0	793.2	782.7	776.8
25°	902.5	874.4	843.7	814.6	795.7	780.6	765.6	755.8	746.2	741.2	730.5
27.5°	853.1	823.8	795.0	772.9	749.8	734.9	721.2	712.6	700.9	692.8	686.8
30°	825.9	791.4	766.6	746.6	717.0	703.0	692.8	682.0	673.4	664.7	658.8
32.5°	794.4	763.0	739.4	714.8	692.0	676.7	663.5	653.9	646.6	638.4	632.5
35°	745.0	718.7	694.3	669.6	652.8	637.2	621.6	613.5	606.5	599.0	593.6
37.5°	700.4	675.7	652.7	629.2	608.4	595.7	583.1	576.9	567.4	562.4	556.9
40°	672.8	648.6	623.8	601.1	579.6	569.8	558.5	549.4	540.7	536.9	531.0
42.5°	642.6	618.4	597.5	573.1	555.4	542.2	531.8	521.7	515.3	509.8	506.4
45°	597.9	576.3	555.8	531.6	514.8	503.5	491.6	482.5	476.6	472.8	466.8
47.5°	554.4	532.8	512.1	490.9	474.8	461.8	450.0	443.5	435.7	431.1	427.1
50°	522.9	503.5	481.4	462.0	445.8	432.9	423.2	415.1	408.1	402.2	399.5
52.5°	494.0	473.3	454.2	436.2	419.1	404.4	395.6	387.1	381.8	375.0	371.9
55°	446.4	426.4	410.3	392.4	375.7	363.4	352.6	345.0	339.6	332.1	327.8
57.5°	401.6	383.7	364.4	349.0	331.8	321.3	312.4	302.1	295.6	289.6	285.4
60°	371.5	350.9	334.2	319.7	304.6	291.1	283.0	275.0	267.9	262.0	258.3
62.5°	339.9	322.1	306.2	290.3	276.6	264.8	255.4	248.7	242.5	238.7	235.0
65°	291.7	277.7	261.5	248.5	235.6	227.0	219.4	213.5	209.1	206.4	203.3
67.5°	247.2	233.6	219.5	206.8	198.2	191.6	186.6	181.6	179.4	175.9	173.8
70°	218.3	204.3	191.9	182.2	173.6	168.7	165.5	161.8	159.5	155.3	153.1
72.5°	186.9	176.7	167.8	159.8	152.9	148.5	144.3	139.7	136.3	131.5	129.4
75°	147.2	138.0	131.0	125.6	121.3	115.3	109.4	104.6	103.0	101.3	100.8
77.5°	109.0	103.2	98.2	93.6	88.2	83.9	82.6	81.5	81.2	80.3	80.3
80°	85.7	80.3	76.5	71.1	67.9	67.9	67.9	66.9	67.4	67.4	67.4
82.5°	63.7	58.8	56.7	54.7	54.1	54.6	54.6	54.7	54.4	55.3	54.9
85°	32.9	33.4	34.5	34.0	34.5	34.5	35.6	35.0	35.6	34.5	35.6
87.5°	12.8	14.3	14.9	15.5	16.2	15.9	16.5	16.5	17.0	17.1	17.1
90°	3.6	4.4	5.5	6.6	7.6	8.6	9.0	9.3	9.6	9.9	10.1
92.5°	10.9	11.4	12.0	12.6	13.2	13.8	14.0	14.3	14.6	14.8	14.9
95°	23.4	24.0	24.6	25.3	25.9	26.5	26.9	27.2	27.5	27.8	28.0
97.5°	39.3	39.7	40.2	40.6	41.1	41.6	41.9	42.3	42.7	43.0	43.2
100°	50.7	51.2	51.6	52.0	52.4	52.8	53.0	53.2	53.5	53.7	53.9
102.5°	62.9	63.3	63.8	64.3	64.9	65.4	65.7	65.9	66.1	66.4	66.5
105°	81.4	81.8	82.5	83.3	84.0	84.7	84.7	84.7	84.7	84.7	84.8
107.5°	103.3	103.5	103.8	104.0	104.3	104.6	104.9	105.1	105.4	105.6	105.7
110°	117.3	117.5	117.6	117.8	118.0	118.1	118.4	118.7	119.1	119.4	119.5



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	131.4	131.5	131.5	131.6	131.6	131.6	132.0	132.4	132.8	133.2	133.3
115°	153.5	153.6	153.4	153.3	153.1	153.0	153.0	153.1	153.2	153.3	153.3
117.5°	174.9	174.8	174.7	174.4	174.3	174.0	174.0	174.0	174.0	174.0	173.9
120°	189.6	189.7	189.3	188.9	188.5	188.1	188.1	188.0	187.9	187.8	187.7
122.5°	203.2	203.3	203.1	202.9	202.7	202.5	202.2	202.1	201.8	201.6	201.5
125°	224.3	224.3	224.1	223.9	223.8	223.6	223.3	223.0	222.7	222.4	222.0
127.5°	245.2	245.3	245.2	244.9	244.8	244.6	244.2	243.8	243.3	242.8	242.4
130°	258.9	259.0	258.8	258.6	258.3	258.1	257.8	257.5	257.1	256.8	256.4
132.5°	272.1	272.4	272.1	272.0	271.8	271.6	271.2	270.8	270.5	270.1	269.7
135°	291.6	291.8	291.8	291.7	291.6	291.5	291.2	290.9	290.6	290.3	290.0
137.5°	310.0	310.3	310.5	310.7	310.9	311.1	310.8	310.5	310.1	309.7	309.4
140°	322.9	323.1	323.2	323.3	323.4	323.4	323.4	323.3	323.2	323.1	322.8
142.5°	334.7	334.9	335.1	335.3	335.4	335.5	335.4	335.3	335.3	335.2	334.9
145°	352.1	352.3	352.5	352.8	353.0	353.2	353.2	353.1	353.0	352.9	352.8
147.5°	368.7	368.9	369.2	369.4	369.6	369.9	369.9	369.9	369.9	369.9	369.6
150°	379.4	379.5	379.7	379.9	380.0	380.2	380.2	380.2	380.2	380.2	379.9
152.5°	388.8	389.0	389.0	389.2	389.3	389.4	389.5	389.6	389.8	389.9	389.8
155°	402.4	402.5	402.6	402.7	402.7	402.8	403.1	403.5	403.8	404.1	403.9
157.5°	414.4	414.4	414.5	414.5	414.5	414.6	414.9	415.3	415.7	416.0	415.9
160°	421.9	421.8	421.8	421.8	421.8	421.8	422.2	422.6	423.0	423.4	423.4
162.5°	428.6	428.5	428.5	428.6	428.6	428.7	429.1	429.5	429.9	430.3	430.2
165°	437.4	437.3	437.3	437.3	437.3	437.3	437.8	438.2	438.7	439.2	439.1
167.5°	444.2	444.0	444.1	444.2	444.3	444.3	444.8	445.3	445.8	446.2	446.2
170°	448.2	448.1	448.1	448.1	448.1	448.1	448.6	449.2	449.7	450.3	450.3
172.5°	451.3	451.1	451.1	451.1	451.1	451.1	451.7	452.2	452.7	453.1	453.1
175°	454.6	454.5	454.5	454.5	454.5	454.5	455.0	455.4	455.9	456.4	456.4
177.5°	456.3	456.1	456.1	456.1	456.1	456.1	456.5	456.9	457.3	457.6	457.6
180°	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3
2.5°	1199.8	1199.4	1199.8	1198.1	1199.8	1199.4	1199.8	1205.0	1205.0	1205.5	1205.9
5°	1116.5	1115.9	1114.4	1109.5	1114.4	1115.9	1116.5	1118.1	1122.4	1130.0	1127.8
7.5°	1043.7	1043.0	1038.2	1038.3	1038.2	1043.0	1043.7	1047.9	1052.7	1057.4	1062.9
10°	1000.6	1001.1	994.7	990.9	994.7	1001.1	1000.6	1004.3	1011.4	1015.1	1018.9
12.5°	958.8	956.2	951.1	946.9	951.1	956.2	958.8	961.6	971.2	975.5	982.7
15°	903.6	898.2	885.2	886.3	885.2	898.2	903.6	901.4	911.1	916.5	918.6
17.5°	838.5	834.6	834.3	826.8	834.3	834.6	838.5	842.8	851.3	857.1	872.5
20°	800.6	797.9	798.9	791.4	798.9	797.9	800.6	809.2	814.6	822.1	834.6
22.5°	770.8	768.1	763.6	761.2	763.6	768.1	770.8	776.8	782.7	793.2	800.0
25°	727.2	722.9	718.7	721.4	718.7	722.9	727.2	730.5	741.2	746.2	755.8
27.5°	683.7	680.5	676.1	675.6	676.1	680.5	683.7	686.8	692.8	700.9	712.6
30°	656.1	652.8	650.7	648.0	650.7	652.8	656.1	658.8	664.7	673.4	682.0
32.5°	628.0	627.4	623.5	623.0	623.5	627.4	628.0	632.5	638.4	646.6	653.9
35°	591.4	588.2	587.1	587.6	587.1	588.2	591.4	593.6	599.0	606.5	613.5
37.5°	556.6	552.2	550.3	548.3	550.3	552.2	556.6	556.9	562.4	567.4	576.9
40°	531.6	527.3	526.2	525.1	526.2	527.3	531.6	531.0	536.9	540.7	549.4
42.5°	503.5	501.8	501.1	499.2	501.1	501.8	503.5	506.4	509.8	515.3	521.7
45°	465.2	464.7	461.4	462.6	461.4	464.7	465.2	466.8	472.8	476.6	482.5
47.5°	424.9	422.6	420.3	421.8	420.3	422.6	424.9	427.1	431.1	435.7	443.5
50°	397.4	396.2	391.4	392.4	391.4	396.2	397.4	399.5	402.2	408.1	415.1
52.5°	369.7	365.6	363.8	363.1	363.8	365.6	369.7	371.9	375.0	381.8	387.1
55°	324.0	319.2	317.0	315.9	317.0	319.2	324.0	327.8	332.1	339.6	345.0
57.5°	279.2	277.8	276.2	277.3	276.2	277.8	279.2	285.4	289.6	295.6	302.1
60°	252.9	252.9	252.9	252.3	252.9	252.9	252.9	258.3	262.0	267.9	275.0
62.5°	232.6	231.2	230.8	231.6	230.8	231.2	232.6	235.0	238.7	242.5	248.7
65°	201.6	201.1	198.9	198.4	198.9	201.1	201.6	203.3	206.4	209.1	213.5
67.5°	172.4	170.5	169.8	169.1	169.8	170.5	172.4	173.8	175.9	179.4	181.6
70°	150.4	149.3	146.1	146.6	146.1	149.3	150.4	153.1	155.3	159.5	161.8
72.5°	126.7	125.6	124.9	124.2	124.9	125.6	126.7	129.4	131.5	136.3	139.7
75°	100.3	99.7	99.2	101.3	99.2	99.7	100.3	100.8	101.3	103.0	104.6
77.5°	80.3	80.3	80.6	79.8	80.6	80.3	80.3	80.3	80.3	81.2	81.5
80°	67.4	67.4	66.9	66.9	66.9	67.4	67.4	67.4	67.4	67.4	66.9
82.5°	54.0	54.4	54.7	53.9	54.7	54.4	54.0	54.9	55.3	54.4	54.7
85°	35.6	35.0	36.1	35.6	36.1	35.0	35.6	35.6	34.5	35.6	35.0
87.5°	18.0	17.2	17.2	17.7	17.2	17.2	18.0	17.1	17.1	17.0	16.5
90°	10.3	10.5	10.6	10.8	10.6	10.5	10.3	10.1	9.9	9.6	9.3
92.5°	14.8	14.7	14.6	14.5	14.6	14.7	14.8	14.9	14.8	14.6	14.3
95°	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	27.8	27.5	27.2
97.5°	43.2	43.2	43.1	43.1	43.1	43.2	43.2	43.2	43.0	42.7	42.3
100°	54.1	54.3	54.4	54.6	54.4	54.3	54.1	53.9	53.7	53.5	53.2
102.5°	66.5	66.4	66.4	66.3	66.4	66.4	66.5	66.5	66.4	66.1	65.9
105°	85.0	85.2	85.3	85.5	85.3	85.2	85.0	84.8	84.7	84.7	84.7
107.5°	105.6	105.5	105.4	105.4	105.4	105.5	105.6	105.7	105.6	105.4	105.1
110°	119.3	119.1	119.0	118.8	119.0	119.1	119.3	119.5	119.4	119.1	118.7



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.3	133.2	132.8	132.4
115°	153.2	153.1	153.0	153.0	153.0	153.1	153.2	153.3	153.3	153.2	153.1
117.5°	173.6	173.4	173.2	172.9	173.2	173.4	173.6	173.9	174.0	174.0	174.0
120°	187.5	187.4	187.2	187.0	187.2	187.4	187.5	187.7	187.8	187.9	188.0
122.5°	201.2	201.0	200.7	200.5	200.7	201.0	201.2	201.5	201.6	201.8	202.1
125°	221.7	221.4	221.1	220.8	221.1	221.4	221.7	222.0	222.4	222.7	223.0
127.5°	242.1	241.7	241.3	241.0	241.3	241.7	242.1	242.4	242.8	243.3	243.8
130°	255.9	255.3	254.8	254.1	254.8	255.3	255.9	256.4	256.8	257.1	257.5
132.5°	269.3	268.8	268.4	267.9	268.4	268.8	269.3	269.7	270.1	270.5	270.8
135°	289.9	289.7	289.5	289.4	289.5	289.7	289.9	290.0	290.3	290.6	290.9
137.5°	309.1	308.9	308.6	308.2	308.6	308.9	309.1	309.4	309.7	310.1	310.5
140°	322.3	321.7	321.2	320.6	321.2	321.7	322.3	322.8	323.1	323.2	323.3
142.5°	334.5	334.1	333.7	333.2	333.7	334.1	334.5	334.9	335.2	335.3	335.3
145°	352.4	352.1	351.8	351.5	351.8	352.1	352.4	352.8	352.9	353.0	353.1
147.5°	369.2	368.6	368.1	367.7	368.1	368.6	369.2	369.6	369.9	369.9	369.9
150°	379.5	379.0	378.5	378.0	378.5	379.0	379.5	379.9	380.2	380.2	380.2
152.5°	389.4	388.9	388.5	388.1	388.5	388.9	389.4	389.8	389.9	389.8	389.6
155°	403.4	402.8	402.3	401.7	402.3	402.8	403.4	403.9	404.1	403.8	403.5
157.5°	415.5	415.0	414.5	414.2	414.5	415.0	415.5	415.9	416.0	415.7	415.3
160°	423.1	422.8	422.5	422.2	422.5	422.8	423.1	423.4	423.4	423.0	422.6
162.5°	429.8	429.2	428.7	428.2	428.7	429.2	429.8	430.2	430.3	429.9	429.5
165°	438.6	438.0	437.4	436.9	437.4	438.0	438.6	439.1	439.2	438.7	438.2
167.5°	445.8	445.3	444.8	444.3	444.8	445.3	445.8	446.2	446.2	445.8	445.3
170°	449.7	449.2	448.6	448.1	448.6	449.2	449.7	450.3	450.3	449.7	449.2
172.5°	452.6	452.0	451.5	450.9	451.5	452.0	452.6	453.1	453.1	452.7	452.2
175°	455.8	455.3	454.7	454.2	454.7	455.3	455.8	456.4	456.4	455.9	455.4
177.5°	457.2	456.8	456.3	455.8	456.3	456.8	457.2	457.6	457.6	457.3	456.9
180°	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0



TEST NUMBER: P332451-927

CATALOG NUMBER: S123RDIW-S1000D460U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3
2.5°	1202.0	1208.0	1214.1	1219.6	1228.3	1232.2	1237.8	1239.9	1246.4	1255.9	1263.7
5°	1128.9	1137.5	1148.8	1158.0	1172.6	1183.8	1196.3	1208.2	1222.2	1242.1	1259.9
7.5°	1066.9	1075.4	1089.0	1106.0	1122.1	1138.1	1155.1	1171.2	1191.3	1219.9	1248.2
10°	1026.0	1036.2	1052.3	1070.6	1090.6	1106.3	1126.2	1146.7	1171.5	1204.4	1238.3
12.5°	990.5	998.2	1017.0	1034.4	1057.0	1076.9	1096.5	1120.4	1148.6	1183.7	1224.6
15°	934.3	945.1	963.4	982.8	1006.5	1027.5	1052.9	1082.0	1109.5	1152.6	1202.2
17.5°	877.7	894.1	913.2	935.2	952.7	981.7	1009.2	1039.1	1072.9	1118.6	1173.1
20°	841.5	854.4	872.3	904.1	927.2	949.4	974.7	1011.9	1043.1	1095.0	1151.5
22.5°	811.0	820.4	840.3	866.6	893.7	919.2	944.9	980.4	1019.0	1068.2	1129.6
25°	765.6	780.6	795.7	814.6	843.7	874.4	902.5	932.6	973.6	1026.0	1092.3
27.5°	721.2	734.9	749.8	772.9	795.0	823.8	853.1	887.7	931.7	987.0	1054.2
30°	692.8	703.0	717.0	746.6	766.6	791.4	825.9	856.7	897.6	956.4	1027.5
32.5°	663.5	676.7	692.0	714.8	739.4	763.0	794.4	827.8	869.6	927.5	1000.4
35°	621.6	637.2	652.8	669.6	694.3	718.7	745.0	781.7	824.3	880.4	952.0
37.5°	583.1	595.7	608.4	629.2	652.7	675.7	700.4	736.5	776.7	837.1	902.9
40°	558.5	569.8	579.6	601.1	623.8	648.6	672.8	704.6	747.7	804.4	868.0
42.5°	531.8	542.2	555.4	573.1	597.5	618.4	642.6	672.7	713.2	770.7	826.6
45°	491.6	503.5	514.8	531.6	555.8	576.3	597.9	626.5	668.0	715.4	765.0
47.5°	450.0	461.8	474.8	490.9	512.1	532.8	554.4	579.7	617.6	664.2	697.6
50°	423.2	432.9	445.8	462.0	481.4	503.5	522.9	550.4	586.5	623.2	652.3
52.5°	395.6	404.4	419.1	436.2	454.2	473.3	494.0	517.6	550.3	584.8	607.9
55°	352.6	363.4	375.7	392.4	410.3	426.4	446.4	470.6	496.5	522.4	538.1
57.5°	312.4	321.3	331.8	349.0	364.4	383.7	401.6	420.5	444.4	464.0	474.2
60°	283.0	291.1	304.6	319.7	334.2	350.9	371.5	390.3	408.6	424.3	432.4
62.5°	255.4	264.8	276.6	290.3	306.2	322.1	339.9	355.8	372.0	385.5	390.9
65°	219.4	227.0	235.6	248.5	261.5	277.7	291.7	307.8	319.7	327.3	332.1
67.5°	186.6	191.6	198.2	206.8	219.5	233.6	247.2	259.8	269.7	275.0	279.2
70°	165.5	168.7	173.6	182.2	191.9	204.3	218.3	227.5	236.1	240.4	244.8
72.5°	144.3	148.5	152.9	159.8	167.8	176.7	186.9	198.2	203.0	208.1	210.7
75°	109.4	115.3	121.3	125.6	131.0	138.0	147.2	154.2	156.9	161.2	161.8
77.5°	82.6	83.9	88.2	93.6	98.2	103.2	109.0	115.3	116.5	118.8	120.3
80°	67.9	67.9	67.9	71.1	76.5	80.3	85.7	89.0	91.1	91.7	92.2
82.5°	54.6	54.6	54.1	54.7	56.7	58.8	63.7	67.4	69.1	68.8	67.6
85°	35.6	34.5	34.5	34.0	34.5	33.4	32.9	35.0	38.3	38.3	37.2
87.5°	16.5	15.9	16.2	15.5	14.9	14.3	12.8	13.1	12.9	14.5	13.9
90°	9.0	8.6	7.6	6.6	5.5	4.4	3.6	2.8	2.0	1.2	0.4
92.5°	14.0	13.8	13.2	12.6	12.0	11.4	10.9	10.3	9.7	9.3	8.7
95°	26.9	26.5	25.9	25.3	24.6	24.0	23.4	22.9	22.3	21.7	21.2
97.5°	41.9	41.6	41.1	40.6	40.2	39.7	39.3	38.9	38.4	38.0	37.6
100°	53.0	52.8	52.4	52.0	51.6	51.2	50.7	50.2	49.7	49.3	48.8
102.5°	65.7	65.4	64.9	64.3	63.8	63.3	62.9	62.6	62.3	62.0	61.7
105°	84.7	84.7	84.0	83.3	82.5	81.8	81.4	81.3	81.1	81.0	80.8
107.5°	104.9	104.6	104.3	104.0	103.8	103.5	103.3	103.1	103.1	103.0	102.9
110°	118.4	118.1	118.0	117.8	117.6	117.5	117.3	117.2	117.0	116.8	116.7



TEST NUMBER: P332451-927

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	132.0	131.6	131.6	131.6	131.5	131.5	131.4	131.3	131.3	131.1	131.0
115°	153.0	153.0	153.1	153.3	153.4	153.6	153.5	153.3	153.0	152.8	152.6
117.5°	174.0	174.0	174.3	174.4	174.7	174.8	174.9	174.8	174.6	174.4	174.3
120°	188.1	188.1	188.5	188.9	189.3	189.7	189.6	189.2	188.7	188.2	187.7
122.5°	202.2	202.5	202.7	202.9	203.1	203.3	203.2	202.9	202.6	202.2	201.8
125°	223.3	223.6	223.8	223.9	224.1	224.3	224.3	224.0	223.8	223.6	223.3
127.5°	244.2	244.6	244.8	244.9	245.2	245.3	245.2	244.6	244.2	243.6	243.1
130°	257.8	258.1	258.3	258.6	258.8	259.0	258.9	258.3	257.6	257.0	256.4
132.5°	271.2	271.6	271.8	272.0	272.1	272.4	272.1	271.5	270.8	270.1	269.5
135°	291.2	291.5	291.6	291.7	291.8	291.8	291.6	291.1	290.7	290.2	289.7
137.5°	310.8	311.1	310.9	310.7	310.5	310.3	310.0	309.6	309.2	308.8	308.4
140°	323.4	323.4	323.4	323.3	323.2	323.1	322.9	322.5	322.1	321.7	321.3
142.5°	335.4	335.5	335.4	335.3	335.1	334.9	334.7	334.3	333.9	333.5	333.1
145°	353.2	353.2	353.0	352.8	352.5	352.3	352.1	352.0	351.8	351.6	351.5
147.5°	369.9	369.9	369.6	369.4	369.2	368.9	368.7	368.4	368.1	367.8	367.6
150°	380.2	380.2	380.0	379.9	379.7	379.5	379.4	379.2	379.1	378.9	378.7
152.5°	389.5	389.4	389.3	389.2	389.0	389.0	388.8	388.6	388.4	388.2	387.9
155°	403.1	402.8	402.7	402.7	402.6	402.5	402.4	402.4	402.4	402.4	402.4
157.5°	414.9	414.6	414.5	414.5	414.5	414.4	414.4	414.5	414.6	414.7	414.8
160°	422.2	421.8	421.8	421.8	421.8	421.8	421.9	422.1	422.2	422.4	422.6
162.5°	429.1	428.7	428.6	428.6	428.5	428.5	428.6	428.7	429.0	429.2	429.4
165°	437.8	437.3	437.3	437.3	437.3	437.3	437.4	437.6	437.8	438.1	438.3
167.5°	444.8	444.3	444.3	444.2	444.1	444.0	444.2	444.5	444.8	445.1	445.4
170°	448.6	448.1	448.1	448.1	448.1	448.1	448.2	448.5	448.9	449.2	449.5
172.5°	451.7	451.1	451.1	451.1	451.1	451.1	451.3	451.7	452.0	452.3	452.7
175°	455.0	454.5	454.5	454.5	454.5	454.5	454.6	455.0	455.3	455.6	455.9
177.5°	456.5	456.1	456.1	456.1	456.1	456.1	456.3	456.5	456.8	457.0	457.3
180°	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0



TEST NUMBER: P332451-927

CATALOG NUMBER: S123RDIW-S1000D460U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3
2.5°	1266.2	1271.0	1277.0	1286.1	1293.0	1299.0	1300.3	1302.0	1306.4	1313.7	1319.3
5°	1274.5	1286.8	1306.8	1326.2	1347.3	1364.5	1380.6	1391.9	1402.7	1425.4	1443.8
7.5°	1271.8	1299.5	1330.7	1365.6	1400.8	1435.0	1466.7	1495.1	1523.3	1556.3	1593.9
10°	1270.1	1302.5	1344.5	1389.3	1438.4	1486.3	1532.7	1568.8	1610.8	1648.6	1696.5
12.5°	1261.9	1308.5	1358.8	1416.0	1476.3	1531.6	1592.6	1642.5	1690.7	1745.2	1800.9
15°	1251.3	1307.9	1371.5	1447.5	1539.1	1606.0	1668.5	1755.3	1814.7	1873.9	1953.8
17.5°	1231.8	1300.8	1380.3	1479.1	1555.5	1645.4	1739.5	1808.1	1887.9	1971.5	2043.8
20°	1216.2	1296.6	1385.5	1482.6	1580.1	1677.7	1768.8	1850.8	1933.2	2029.7	2089.1
22.5°	1200.7	1280.2	1372.5	1475.7	1580.6	1683.3	1786.5	1882.7	1975.5	2072.8	2148.6
25°	1167.7	1262.0	1362.3	1467.4	1571.0	1684.2	1807.0	1914.4	2029.2	2129.5	2201.2
27.5°	1134.2	1220.8	1320.6	1427.2	1542.3	1676.1	1820.7	1942.6	2057.7	2129.5	2152.0
30°	1104.1	1195.7	1287.4	1395.7	1520.3	1669.6	1823.3	1962.9	2057.2	2088.5	2065.3
32.5°	1073.5	1156.5	1247.3	1358.2	1490.5	1653.7	1826.7	1950.8	2007.6	1983.7	1889.4
35°	1019.5	1094.4	1182.3	1293.3	1445.3	1644.8	1812.5	1896.6	1882.5	1747.8	1569.9
37.5°	961.6	1022.7	1104.1	1220.2	1398.5	1609.8	1751.2	1763.6	1642.4	1435.4	1229.9
40°	915.9	970.9	1054.5	1175.8	1362.3	1575.3	1689.6	1639.4	1451.3	1221.1	1049.6
42.5°	871.5	917.9	998.4	1129.2	1327.9	1528.3	1597.7	1488.5	1271.5	1053.8	897.9
45°	796.2	840.0	920.8	1055.0	1257.2	1438.4	1429.2	1239.4	1022.2	846.9	717.6
47.5°	724.8	763.0	838.9	976.0	1174.3	1303.5	1217.8	1015.9	831.6	691.0	598.7
50°	674.4	712.2	787.7	923.0	1107.9	1202.2	1079.8	885.2	716.4	600.0	526.7
52.5°	626.1	663.0	732.0	863.9	1027.6	1084.0	952.6	772.2	631.5	531.0	468.0
55°	558.5	586.5	648.6	774.7	897.1	910.0	776.8	625.9	510.0	439.9	396.8
57.5°	489.6	513.7	575.0	675.5	761.3	754.6	628.4	497.8	419.8	367.7	336.4
60°	444.7	468.5	522.4	608.6	673.4	650.7	534.8	429.7	362.8	324.6	299.8
62.5°	402.9	421.4	471.9	534.9	581.5	555.8	457.2	370.2	317.1	284.9	265.2
65°	342.3	357.4	397.8	430.7	456.6	431.8	349.9	289.5	251.2	228.5	215.1
67.5°	284.8	294.4	319.9	331.8	350.0	322.8	263.1	222.7	200.9	181.8	172.4
70°	248.5	255.6	269.0	278.7	283.6	255.6	211.4	181.6	163.3	149.9	143.9
72.5°	212.3	218.5	221.2	229.1	226.6	200.3	169.9	146.3	133.2	124.0	116.4
75°	162.2	164.9	162.2	159.1	152.0	133.7	112.6	100.8	91.1	86.8	84.1
77.5°	118.3	117.4	113.8	108.7	96.7	85.2	73.8	69.9	65.7	63.4	62.4
80°	91.1	89.0	85.7	77.6	67.4	59.3	56.6	53.9	52.3	49.6	49.0
82.5°	67.8	66.5	61.2	54.3	47.1	43.3	41.1	40.1	38.5	37.1	37.0
85°	36.1	34.5	28.6	24.8	23.7	22.7	22.1	22.1	20.0	19.4	19.4
87.5°	11.9	9.4	9.2	8.1	8.2	7.6	8.2	7.5	7.4	7.8	7.1
90°	1.2	2.0	2.8	3.6	4.4	5.5	6.6	7.6	8.6	9.0	9.3
92.5°	9.3	9.7	10.3	10.9	11.4	12.0	12.6	13.2	13.8	14.0	14.3
95°	21.7	22.3	22.9	23.4	24.0	24.6	25.3	25.9	26.5	26.9	27.2
97.5°	38.0	38.4	38.9	39.3	39.7	40.2	40.6	41.1	41.6	41.9	42.3
100°	49.3	49.7	50.2	50.7	51.2	51.6	52.0	52.4	52.8	53.0	53.2
102.5°	62.0	62.3	62.6	62.9	63.3	63.8	64.3	64.9	65.4	65.7	65.9
105°	81.0	81.1	81.3	81.4	81.8	82.5	83.3	84.0	84.7	84.7	84.7
107.5°	103.0	103.1	103.1	103.3	103.5	103.8	104.0	104.3	104.6	104.9	105.1
110°	116.8	117.0	117.2	117.3	117.5	117.6	117.8	118.0	118.1	118.4	118.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	131.1	131.3	131.3	131.4	131.5	131.5	131.6	131.6	131.6	132.0	132.4
115°	152.8	153.0	153.3	153.5	153.6	153.4	153.3	153.1	153.0	153.0	153.1
117.5°	174.4	174.6	174.8	174.9	174.8	174.7	174.4	174.3	174.0	174.0	174.0
120°	188.2	188.7	189.2	189.6	189.7	189.3	188.9	188.5	188.1	188.1	188.0
122.5°	202.2	202.6	202.9	203.2	203.3	203.1	202.9	202.7	202.5	202.2	202.1
125°	223.6	223.8	224.0	224.3	224.3	224.1	223.9	223.8	223.6	223.3	223.0
127.5°	243.6	244.2	244.6	245.2	245.3	245.2	244.9	244.8	244.6	244.2	243.8
130°	257.0	257.6	258.3	258.9	259.0	258.8	258.6	258.3	258.1	257.8	257.5
132.5°	270.1	270.8	271.5	272.1	272.4	272.1	272.0	271.8	271.6	271.2	270.8
135°	290.2	290.7	291.1	291.6	291.8	291.8	291.7	291.6	291.5	291.2	290.9
137.5°	308.8	309.2	309.6	310.0	310.3	310.5	310.7	310.9	311.1	310.8	310.5
140°	321.7	322.1	322.5	322.9	323.1	323.2	323.3	323.4	323.4	323.4	323.3
142.5°	333.5	333.9	334.3	334.7	334.9	335.1	335.3	335.4	335.5	335.4	335.3
145°	351.6	351.8	352.0	352.1	352.3	352.5	352.8	353.0	353.2	353.2	353.1
147.5°	367.8	368.1	368.4	368.7	368.9	369.2	369.4	369.6	369.9	369.9	369.9
150°	378.9	379.1	379.2	379.4	379.5	379.7	379.9	380.0	380.2	380.2	380.2
152.5°	388.2	388.4	388.6	388.8	389.0	389.0	389.2	389.3	389.4	389.5	389.6
155°	402.4	402.4	402.4	402.4	402.5	402.6	402.7	402.7	402.8	403.1	403.5
157.5°	414.7	414.6	414.5	414.4	414.4	414.5	414.5	414.5	414.6	414.9	415.3
160°	422.4	422.2	422.1	421.9	421.8	421.8	421.8	421.8	421.8	422.2	422.6
162.5°	429.2	429.0	428.7	428.6	428.5	428.5	428.6	428.6	428.7	429.1	429.5
165°	438.1	437.8	437.6	437.4	437.3	437.3	437.3	437.3	437.3	437.8	438.2
167.5°	445.1	444.8	444.5	444.2	444.0	444.1	444.2	444.3	444.3	444.8	445.3
170°	449.2	448.9	448.5	448.2	448.1	448.1	448.1	448.1	448.1	448.6	449.2
172.5°	452.3	452.0	451.7	451.3	451.1	451.1	451.1	451.1	451.1	451.7	452.2
175°	455.6	455.3	455.0	454.6	454.5	454.5	454.5	454.5	454.5	455.0	455.4
177.5°	457.0	456.8	456.5	456.3	456.1	456.1	456.1	456.1	456.1	456.5	456.9
180°	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3
2.5°	1328.3	1328.3	1330.1	1336.6	1337.4	1343.0	1341.3
5°	1459.9	1470.1	1473.9	1490.1	1499.8	1504.1	1495.5
7.5°	1620.8	1649.6	1663.3	1680.3	1695.3	1699.8	1688.1
10°	1738.0	1768.2	1793.6	1809.3	1823.8	1833.5	1845.9
12.5°	1851.5	1888.6	1912.6	1934.7	1949.7	1962.0	1964.1
15°	1974.8	2030.8	2073.4	2104.7	2120.3	2128.4	2125.2
17.5°	2099.0	2151.0	2181.4	2213.3	2234.9	2236.0	2236.6
20°	2169.4	2220.0	2255.1	2278.8	2303.0	2302.0	2307.4
22.5°	2216.4	2256.3	2283.1	2300.3	2308.7	2304.5	2305.6
25°	2238.4	2250.2	2245.4	2217.9	2210.9	2185.6	2189.8
27.5°	2124.9	2068.9	2010.9	1936.3	1877.4	1830.3	1832.7
30°	1970.9	1871.8	1758.6	1663.7	1578.5	1554.8	1504.1
32.5°	1755.8	1606.9	1474.3	1385.9	1312.8	1293.0	1248.8
35°	1390.9	1246.4	1110.0	1028.1	995.7	950.5	949.9
37.5°	1081.1	953.9	881.8	820.3	788.1	760.7	758.0
40°	909.5	810.2	755.8	711.6	679.9	659.3	654.5
42.5°	789.6	709.3	658.4	631.0	606.5	596.0	588.0
45°	644.8	590.9	555.2	530.4	519.2	511.0	506.8
47.5°	539.3	503.2	479.0	462.5	453.3	444.7	447.0
50°	482.0	452.3	434.5	418.9	411.9	405.9	406.5
52.5°	435.8	409.2	394.8	383.5	374.8	370.6	368.5
55°	369.8	353.1	338.6	330.5	325.6	319.7	318.1
57.5°	315.4	302.5	290.7	281.5	280.4	274.6	275.4
60°	279.2	268.5	258.8	253.9	250.2	245.3	246.9
62.5°	249.5	240.4	231.6	227.6	223.9	220.3	221.0
65°	204.3	195.7	190.3	188.1	186.6	184.9	183.3
67.5°	162.8	157.6	154.2	149.6	146.2	145.7	144.0
70°	137.0	129.9	124.0	118.0	116.5	115.9	116.5
72.5°	109.8	105.4	103.7	100.8	100.5	99.1	100.1
75°	82.5	80.9	79.8	77.6	77.6	77.6	77.6
77.5°	60.8	59.8	59.2	58.8	58.2	57.4	57.4
80°	47.5	46.9	45.8	45.8	45.3	45.8	45.3
82.5°	35.8	35.7	34.6	34.6	34.1	33.7	34.1
85°	18.3	17.8	18.9	17.8	18.3	17.3	18.3
87.5°	7.1	7.1	6.7	6.8	6.4	7.3	6.5
90°	9.6	9.9	10.1	10.3	10.5	10.6	10.8
92.5°	14.6	14.8	14.9	14.8	14.7	14.6	14.5
95°	27.5	27.8	28.0	28.0	28.0	28.0	28.0
97.5°	42.7	43.0	43.2	43.2	43.2	43.1	43.1
100°	53.5	53.7	53.9	54.1	54.3	54.4	54.6
102.5°	66.1	66.4	66.5	66.5	66.4	66.4	66.3
105°	84.7	84.7	84.8	85.0	85.2	85.3	85.5
107.5°	105.4	105.6	105.7	105.6	105.5	105.4	105.4
110°	119.1	119.4	119.5	119.3	119.1	119.0	118.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	132.8	133.2	133.3	133.2	133.2	133.2	133.2
115°	153.2	153.3	153.3	153.2	153.1	153.0	153.0
117.5°	174.0	174.0	173.9	173.6	173.4	173.2	172.9
120°	187.9	187.8	187.7	187.5	187.4	187.2	187.0
122.5°	201.8	201.6	201.5	201.2	201.0	200.7	200.5
125°	222.7	222.4	222.0	221.7	221.4	221.1	220.8
127.5°	243.3	242.8	242.4	242.1	241.7	241.3	241.0
130°	257.1	256.8	256.4	255.9	255.3	254.8	254.1
132.5°	270.5	270.1	269.7	269.3	268.8	268.4	267.9
135°	290.6	290.3	290.0	289.9	289.7	289.5	289.4
137.5°	310.1	309.7	309.4	309.1	308.9	308.6	308.2
140°	323.2	323.1	322.8	322.3	321.7	321.2	320.6
142.5°	335.3	335.2	334.9	334.5	334.1	333.7	333.2
145°	353.0	352.9	352.8	352.4	352.1	351.8	351.5
147.5°	369.9	369.9	369.6	369.2	368.6	368.1	367.7
150°	380.2	380.2	379.9	379.5	379.0	378.5	378.0
152.5°	389.8	389.9	389.8	389.4	388.9	388.5	388.1
155°	403.8	404.1	403.9	403.4	402.8	402.3	401.7
157.5°	415.7	416.0	415.9	415.5	415.0	414.5	414.2
160°	423.0	423.4	423.4	423.1	422.8	422.5	422.2
162.5°	429.9	430.3	430.2	429.8	429.2	428.7	428.2
165°	438.7	439.2	439.1	438.6	438.0	437.4	436.9
167.5°	445.8	446.2	446.2	445.8	445.3	444.8	444.3
170°	449.7	450.3	450.3	449.7	449.2	448.6	448.1
172.5°	452.7	453.1	453.1	452.6	452.0	451.5	450.9
175°	455.9	456.4	456.4	455.8	455.3	454.7	454.2
177.5°	457.3	457.6	457.6	457.2	456.8	456.3	455.8
180°	457.0	457.0	457.0	457.0	457.0	457.0	457.0

(END OF REPORT)