

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: P332337-830

Luminaire Tested: **S123RDIP-S1000D585U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332337-830  
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: S123RDIP-S1000D585U830-4F0-1E-UDD-A1  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 585 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5628.9 lumens  
Efficiency: N/A  
Efficacy: 115.3 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

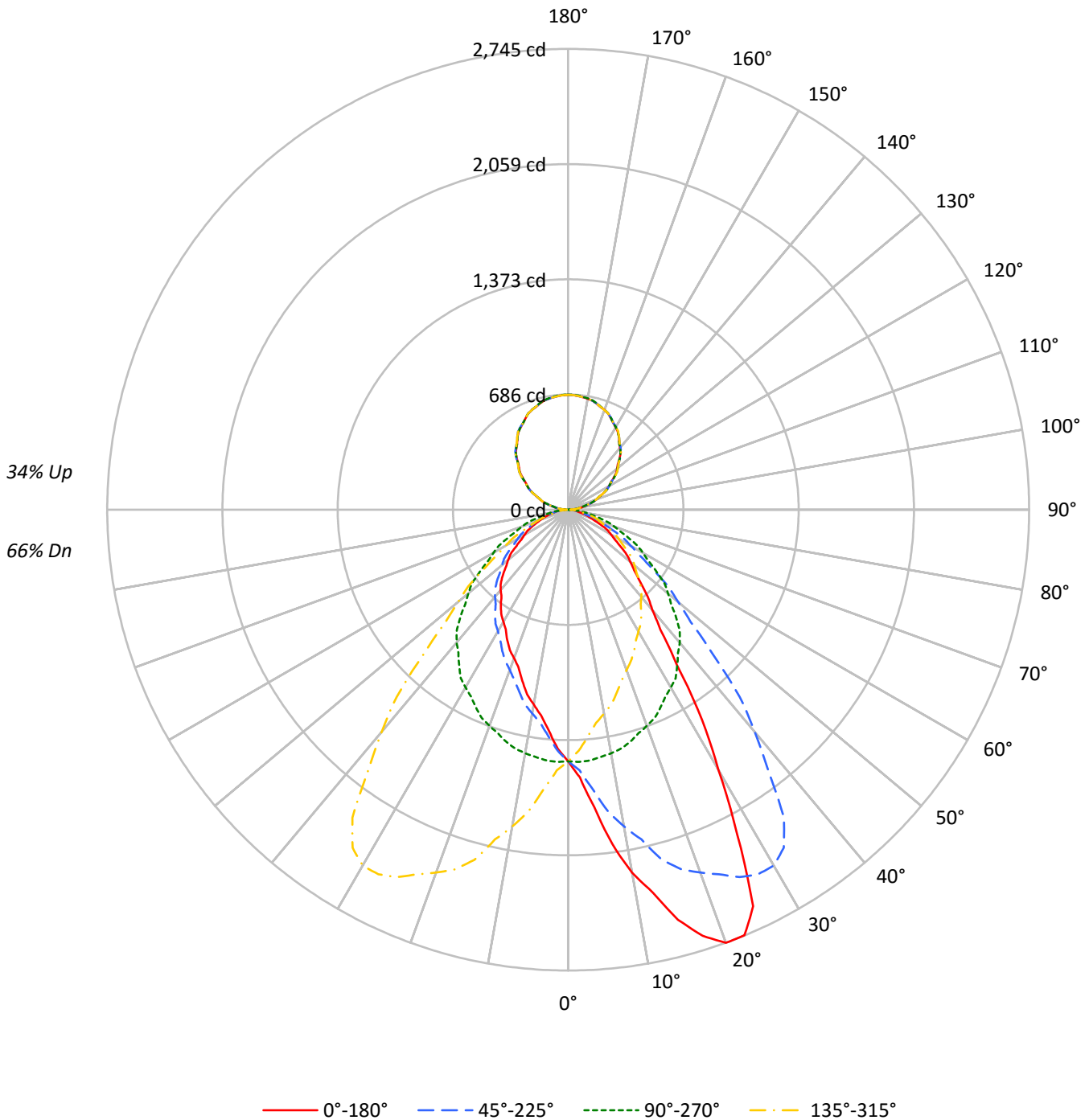
Input Watts (W): 48.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	111	111	111	111	105	105	105	105	92	92	92	81	81	81	71	71	71	66
1	102	98	94	91	96	93	89	86	82	80	78	73	71	69	64	63	62	57
2	94	87	81	76	88	82	77	72	73	69	66	65	62	59	57	55	53	49
3	86	77	70	64	81	73	66	61	65	60	56	58	54	51	52	49	46	43
4	79	69	61	55	74	65	58	53	58	53	49	52	48	44	47	43	40	37
5	73	62	54	48	69	58	51	46	53	47	42	47	43	39	42	39	36	33
6	68	56	48	42	64	53	46	40	48	42	37	43	38	35	39	35	32	29
7	63	50	43	37	59	48	41	36	44	38	33	39	35	31	35	31	28	26
8	58	46	38	33	55	44	37	32	40	34	30	36	31	28	33	29	26	24
9	54	42	35	30	51	40	34	29	37	31	27	33	29	25	30	26	23	21
10	51	39	32	27	48	37	31	26	34	28	25	31	26	23	28	24	21	20

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	16129	16129	16129	16129
5°	19225	16197	14263	16197
10°	24004	16104	12885	16104
15°	28178	15940	11751	15940
20°	31447	15694	10786	15694
25°	30945	15435	10194	15435
30°	22243	15196	9583	15196
35°	14851	14884	9188	14884
40°	10942	14511	8778	14511
45°	9178	13855	8378	13855
50°	8098	12996	7819	12996
55°	7101	12014	7054	12014
60°	6325	11074	6463	11074
65°	5555	10063	6011	10063
70°	4362	9165	5492	9165
75°	3843	8006	5016	8006
80°	3341	6800	4934	6800
85°	2692	5471	5224	5471



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.4	2.6
10°-20°	460.3	8.2
20°-30°	723.2	12.8
30°-40°	754.5	13.4
40°-50°	645.7	11.5
50°-60°	492.2	8.7
60°-70°	315.5	5.6
70°-80°	151.8	2.7
80°-90°	42.2	0.7
90°-100°	44.6	0.8
100°-110°	133.4	2.4
110°-120°	227.0	4.0
120°-130°	298.5	5.3
130°-140°	335.6	6.0
140°-150°	329.8	5.9
150°-160°	277.7	4.9
160°-170°	184.8	3.3
170°-180°	64.7	1.1
0°-30°	1330.9	23.6
0°-40°	2085.5	37.0
0°-60°	3223.3	57.3
0°-90°	3732.8	66.3
90°-120°	405.0	7.2
90°-150°	1368.9	24.3
90°-180°	1896.0	33.7
0°-180°	5628.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1498	1498	1498	1498	1498	
5°	1779	1499	1320	1499	1779	184
15°	2529	1430	1054	1430	2529	717
25°	2606	1300	858	1300	2606	1120
35°	1130	1133	699	1133	1130	741
45°	603	910	550	910	603	474
55°	378	640	376	640	378	342
65°	218	395	236	395	218	215
75°	92	192	121	192	92	99
85°	22	44	42	44	22	25
90°	16	1	16	1	16	9
95°	42	32	42	32	42	43
105°	128	121	128	121	128	136
115°	229	228	229	228	229	227
125°	331	334	331	334	331	296
135°	433	434	433	434	433	333
145°	526	526	526	526	526	329
155°	602	603	602	603	602	277
165°	654	656	654	656	654	185
175°	680	683	680	683	680	65
180°	684	684	684	684	684	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4
2.5°	1595.9	1597.9	1591.3	1590.3	1582.5	1580.5	1580.5	1569.7	1563.0	1554.3	1549.2
5°	1779.3	1789.6	1784.4	1772.9	1753.7	1749.2	1737.0	1717.8	1695.9	1669.0	1656.1
7.5°	2008.5	2022.4	2017.0	1999.2	1979.1	1962.8	1928.4	1896.5	1851.7	1812.4	1778.9
10°	2196.2	2181.5	2169.9	2152.7	2134.0	2103.8	2067.9	2018.5	1961.5	1916.6	1866.6
12.5°	2336.8	2334.4	2319.8	2302.0	2275.7	2247.0	2202.9	2142.8	2076.4	2011.6	1954.3
15°	2528.6	2532.3	2522.7	2504.1	2466.9	2416.3	2349.6	2324.6	2229.6	2159.1	2088.5
17.5°	2661.2	2660.4	2659.1	2633.4	2595.4	2559.3	2497.5	2431.7	2345.7	2246.3	2151.3
20°	2745.3	2738.9	2740.2	2711.3	2683.1	2641.4	2581.2	2485.6	2415.0	2300.2	2202.1
22.5°	2743.3	2742.0	2746.9	2737.0	2716.5	2684.5	2637.0	2556.4	2466.3	2350.4	2240.0
25°	2605.5	2600.4	2630.5	2638.8	2671.5	2677.3	2663.2	2618.9	2533.6	2414.3	2277.7
27.5°	2180.6	2177.7	2233.7	2303.8	2392.6	2461.5	2528.3	2560.5	2533.6	2448.3	2311.3
30°	1789.6	1849.9	1878.1	1979.4	2092.4	2227.0	2345.0	2457.3	2484.9	2447.7	2335.4
32.5°	1485.8	1538.4	1562.0	1649.0	1754.2	1911.9	2089.1	2248.0	2360.2	2388.7	2321.1
35°	1130.2	1130.9	1184.7	1223.2	1320.7	1483.0	1654.9	1867.8	2079.5	2239.9	2256.5
37.5°	901.8	905.0	937.6	976.0	1049.1	1134.9	1286.3	1463.4	1707.9	1954.1	2098.4
40°	778.7	784.5	808.9	846.7	899.3	964.0	1082.1	1248.9	1452.8	1726.7	1950.6
42.5°	699.6	709.1	721.6	750.7	783.3	844.0	939.4	1068.3	1253.8	1512.8	1771.0
45°	602.9	608.0	617.7	631.1	660.6	703.0	767.1	853.8	1007.7	1216.2	1474.6
47.5°	531.9	529.1	539.3	550.3	569.9	598.7	641.7	712.4	822.2	989.5	1208.7
50°	483.6	483.0	490.0	498.4	517.0	538.2	573.4	626.7	713.9	852.4	1053.2
52.5°	438.5	440.9	445.9	456.3	469.8	486.8	518.5	556.9	631.8	751.4	918.8
55°	378.4	380.4	387.4	393.2	402.8	420.1	440.0	472.1	523.4	606.8	744.7
57.5°	327.6	326.8	333.6	335.0	345.8	360.0	375.3	400.3	437.4	499.5	592.3
60°	293.8	291.8	297.7	302.1	307.9	319.4	332.2	356.7	386.2	431.7	511.2
62.5°	263.0	262.1	266.4	270.8	275.6	286.1	296.9	315.6	338.9	377.3	440.5
65°	218.1	220.0	222.0	223.9	226.4	232.8	243.1	255.9	271.9	298.9	344.4
67.5°	171.4	173.3	174.0	178.0	183.4	187.5	193.7	205.1	216.3	239.0	264.9
70°	138.6	137.9	138.6	140.4	147.5	154.6	163.0	171.3	178.3	194.4	216.1
72.5°	119.0	117.9	119.6	120.0	123.4	125.4	130.6	138.5	147.5	158.4	174.1
75°	92.4	92.4	92.4	92.4	94.9	96.2	98.1	100.1	103.3	108.4	120.0
77.5°	68.2	68.3	69.3	69.9	70.4	71.2	72.4	74.3	75.4	78.1	83.1
80°	53.9	54.5	53.9	54.5	54.5	55.8	56.5	58.3	59.0	62.2	64.2
82.5°	40.5	40.2	40.5	41.2	41.2	42.5	42.6	44.0	44.1	45.8	47.7
85°	21.8	20.5	21.8	21.2	22.4	21.2	21.8	23.1	23.1	23.8	26.3
87.5°	8.4	9.3	8.3	8.8	8.7	9.1	9.0	9.0	9.9	9.2	9.4
90°	16.1	15.9	15.6	15.5	15.2	14.8	14.3	13.9	13.4	12.9	11.3
92.5°	21.7	21.9	22.0	22.1	22.3	22.1	21.8	21.4	21.0	20.6	19.8
95°	41.9	41.9	41.9	41.9	41.9	41.7	41.2	40.7	40.2	39.8	38.8
97.5°	64.5	64.6	64.6	64.7	64.7	64.5	63.9	63.3	62.8	62.3	61.5
100°	81.7	81.4	81.2	81.0	80.8	80.5	80.1	79.7	79.4	79.0	78.4
102.5°	99.3	99.4	99.4	99.5	99.5	99.3	99.1	98.7	98.3	97.9	97.2
105°	128.0	127.7	127.4	127.2	127.0	126.9	126.9	126.9	126.9	126.9	125.8
107.5°	157.8	157.9	158.1	158.2	158.3	158.2	157.8	157.4	157.0	156.7	156.3
110°	178.0	178.2	178.4	178.7	178.9	178.8	178.3	177.9	177.4	176.9	176.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	199.4	199.5	199.5	199.6	199.6	199.3	198.8	198.2	197.7	197.1	197.1
115°	229.0	229.1	229.2	229.4	229.5	229.5	229.4	229.2	229.1	229.0	229.2
117.5°	259.0	259.4	259.7	260.0	260.3	260.5	260.5	260.6	260.6	260.6	261.0
120°	280.1	280.3	280.6	280.8	281.1	281.3	281.3	281.4	281.6	281.7	282.3
122.5°	300.3	300.7	301.0	301.3	301.6	302.0	302.3	302.6	302.9	303.2	303.5
125°	330.6	331.1	331.6	332.1	332.5	333.0	333.5	333.9	334.4	335.0	335.2
127.5°	360.8	361.4	361.9	362.5	363.1	363.6	364.3	365.0	365.7	366.4	366.6
130°	380.6	381.4	382.3	383.1	384.0	384.7	385.1	385.6	386.1	386.5	386.9
132.5°	401.2	401.9	402.6	403.2	403.9	404.4	405.0	405.6	406.1	406.8	407.0
135°	433.3	433.6	433.8	434.0	434.2	434.6	435.1	435.5	436.1	436.6	436.7
137.5°	461.6	462.0	462.5	463.0	463.4	463.9	464.4	464.9	465.4	465.9	465.6
140°	480.1	480.9	481.7	482.6	483.4	483.9	484.0	484.2	484.3	484.4	484.3
142.5°	499.0	499.6	500.3	501.0	501.6	502.0	502.1	502.2	502.4	502.5	502.3
145°	526.3	526.8	527.3	527.7	528.2	528.6	528.7	528.8	528.9	529.0	528.7
147.5°	550.6	551.4	552.0	552.8	553.5	553.8	553.8	553.8	553.8	553.8	553.6
150°	566.1	566.8	567.5	568.3	569.0	569.3	569.3	569.3	569.3	569.3	569.1
152.5°	581.2	581.8	582.4	583.1	583.6	583.9	583.7	583.5	583.2	583.1	583.0
155°	601.6	602.5	603.2	604.1	604.9	605.1	604.6	604.2	603.7	603.2	603.1
157.5°	620.2	620.9	621.5	622.2	622.8	622.9	622.5	622.0	621.4	620.9	620.9
160°	632.3	632.7	633.2	633.7	634.1	634.0	633.5	632.9	632.3	631.7	631.7
162.5°	641.3	642.1	642.8	643.6	644.3	644.4	643.9	643.2	642.6	642.1	642.0
165°	654.3	655.2	655.9	656.8	657.6	657.7	657.0	656.3	655.5	654.8	654.8
167.5°	665.3	666.1	666.8	667.6	668.4	668.4	667.6	666.8	666.1	665.3	665.2
170°	670.9	671.8	672.6	673.4	674.3	674.3	673.4	672.6	671.8	670.9	670.9
172.5°	675.2	676.1	676.9	677.8	678.6	678.6	677.9	677.1	676.5	675.7	675.7
175°	680.0	680.9	681.7	682.6	683.4	683.5	682.8	682.0	681.4	680.6	680.6
177.5°	682.7	683.3	684.0	684.7	685.3	685.4	684.9	684.3	683.6	683.1	683.1
180°	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4
2.5°	1547.1	1545.6	1538.4	1530.2	1519.4	1512.2	1506.6	1503.5	1494.3	1483.0	1475.3
5°	1642.7	1623.4	1603.0	1577.9	1554.8	1531.1	1516.4	1499.0	1477.8	1454.2	1437.5
7.5°	1745.1	1707.3	1666.7	1624.8	1583.3	1546.1	1513.3	1485.2	1451.4	1417.4	1393.5
10°	1823.6	1768.4	1711.4	1652.9	1599.7	1549.7	1511.2	1473.4	1432.9	1393.8	1364.3
12.5°	1894.9	1822.3	1756.5	1684.8	1616.6	1556.9	1501.5	1457.0	1408.3	1366.6	1333.0
15°	1985.2	1910.8	1831.3	1722.2	1631.8	1556.1	1488.7	1430.4	1371.4	1320.0	1287.3
17.5°	2069.6	1957.7	1850.8	1759.8	1642.3	1547.7	1465.6	1395.7	1331.0	1276.6	1236.3
20°	2104.5	1996.1	1880.0	1764.0	1648.5	1542.7	1447.1	1370.1	1302.8	1241.1	1204.0
22.5°	2125.5	2002.8	1880.6	1755.8	1633.0	1523.1	1428.6	1344.0	1270.9	1212.4	1166.5
25°	2150.0	2003.8	1869.2	1746.0	1620.9	1501.6	1389.3	1299.6	1220.7	1158.4	1109.7
27.5°	2166.2	1994.2	1835.0	1698.1	1571.2	1452.5	1349.5	1254.3	1174.3	1108.5	1056.2
30°	2169.4	1986.5	1808.8	1660.7	1531.7	1422.7	1313.6	1222.6	1137.9	1068.0	1019.3
32.5°	2173.4	1967.6	1773.4	1616.0	1484.0	1376.0	1277.2	1190.2	1103.5	1034.6	984.9
35°	2156.5	1957.0	1719.7	1538.8	1406.7	1302.1	1213.0	1132.7	1047.4	980.7	930.1
37.5°	2083.6	1915.3	1664.0	1451.8	1313.6	1216.8	1144.2	1074.3	996.0	924.1	876.3
40°	2010.3	1874.2	1620.9	1398.9	1254.6	1155.2	1089.8	1032.7	957.1	889.7	838.4
42.5°	1900.9	1818.4	1579.9	1343.5	1187.9	1092.1	1036.9	983.4	917.0	848.6	800.4
45°	1700.4	1711.4	1495.8	1255.3	1095.5	999.4	947.3	910.2	851.2	794.8	745.4
47.5°	1449.0	1551.0	1397.1	1161.2	998.2	907.9	862.4	830.0	790.2	734.8	689.8
50°	1284.8	1430.4	1318.1	1098.2	937.2	847.3	802.4	776.1	741.5	697.9	654.9
52.5°	1133.4	1289.8	1222.7	1027.8	870.9	788.8	745.0	723.3	695.8	654.8	615.9
55°	924.3	1082.7	1067.3	921.7	771.7	697.9	664.5	640.2	621.5	590.8	560.0
57.5°	747.6	897.9	905.8	803.7	684.2	611.2	582.6	564.2	552.0	528.8	500.3
60°	636.3	774.2	801.2	724.2	621.5	557.4	529.1	514.4	504.8	486.2	464.4
62.5°	543.9	661.3	691.8	636.4	561.5	501.4	479.4	465.1	458.6	442.6	423.4
65°	416.3	513.8	543.3	512.5	473.3	425.3	407.3	395.1	389.4	380.4	366.3
67.5°	313.0	384.1	416.4	394.7	380.6	350.2	338.8	332.2	327.2	320.9	309.2
70°	251.5	304.1	337.4	331.6	320.1	304.1	295.7	291.2	286.1	281.0	270.7
72.5°	202.2	238.4	269.7	272.6	263.2	260.0	252.6	250.7	247.6	241.5	235.8
75°	134.0	159.1	180.9	189.3	193.0	196.2	193.0	192.5	191.8	186.6	183.4
77.5°	87.8	101.3	115.1	129.3	135.3	139.7	140.7	143.1	141.4	138.6	137.1
80°	67.4	70.6	80.2	92.4	102.0	105.8	108.4	109.7	109.1	108.4	105.8
82.5°	48.9	51.6	56.1	64.7	72.8	79.2	80.7	80.4	81.8	82.2	80.2
85°	26.3	27.0	28.2	29.5	34.0	41.1	43.0	44.3	45.5	45.5	41.7
87.5°	10.2	9.3	10.1	9.8	11.1	11.4	14.2	16.5	17.2	15.5	15.7
90°	9.8	8.2	6.7	5.3	4.1	2.9	1.7	0.6	1.7	2.9	4.1
92.5°	18.9	18.0	17.2	16.3	15.5	14.6	13.9	13.0	13.9	14.6	15.5
95°	37.9	36.9	36.0	35.1	34.2	33.4	32.5	31.8	32.5	33.4	34.2
97.5°	60.9	60.1	59.5	58.8	58.2	57.6	56.9	56.4	56.9	57.6	58.2
100°	77.9	77.2	76.6	76.0	75.3	74.6	73.8	73.1	73.8	74.6	75.3
102.5°	96.4	95.6	94.8	94.2	93.8	93.3	92.9	92.5	92.9	93.3	93.8
105°	124.7	123.7	122.5	122.0	121.7	121.4	121.2	120.9	121.2	121.4	121.7
107.5°	155.8	155.3	155.0	154.7	154.5	154.4	154.2	154.1	154.2	154.4	154.5
110°	176.4	176.2	175.9	175.7	175.4	175.2	174.9	174.7	174.9	175.2	175.4





TEST NUMBER: P332337-830

CATALOG NUMBER: S123RDIP-S1000D585U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	197.0	197.0	196.9	196.8	196.6	196.5	196.3	196.2	196.3	196.5	196.6
115°	229.5	229.7	230.0	229.9	229.6	229.2	228.8	228.5	228.8	229.2	229.6
117.5°	261.3	261.6	261.8	261.9	261.6	261.5	261.2	261.0	261.2	261.5	261.6
120°	283.0	283.5	284.1	284.1	283.3	282.6	281.9	281.2	281.9	282.6	283.3
122.5°	303.9	304.2	304.4	304.3	303.8	303.3	302.7	302.3	302.7	303.3	303.8
125°	335.5	335.6	335.9	335.8	335.5	335.1	334.8	334.4	334.8	335.1	335.5
127.5°	366.8	367.1	367.4	367.1	366.4	365.6	364.9	364.1	364.9	365.6	366.4
130°	387.3	387.7	388.0	387.7	386.7	385.8	384.8	383.9	384.8	385.8	386.7
132.5°	407.3	407.6	407.8	407.5	406.5	405.6	404.6	403.6	404.6	405.6	406.5
135°	436.8	436.9	437.1	436.7	436.0	435.3	434.6	433.9	434.6	435.3	436.0
137.5°	465.2	465.0	464.7	464.2	463.6	463.0	462.4	461.8	462.4	463.0	463.6
140°	484.2	484.0	483.9	483.5	483.0	482.4	481.7	481.2	481.7	482.4	483.0
142.5°	502.0	501.8	501.6	501.1	500.6	500.0	499.4	498.8	499.4	500.0	500.6
145°	528.3	527.9	527.5	527.3	527.1	526.8	526.6	526.3	526.6	526.8	527.1
147.5°	553.2	552.9	552.5	552.1	551.7	551.3	550.8	550.4	550.8	551.3	551.7
150°	568.8	568.6	568.4	568.2	567.9	567.7	567.4	567.2	567.4	567.7	567.9
152.5°	582.8	582.7	582.5	582.3	581.9	581.6	581.3	581.0	581.3	581.6	581.9
155°	602.9	602.9	602.8	602.7	602.7	602.7	602.7	602.7	602.7	602.7	602.7
157.5°	620.8	620.7	620.6	620.6	620.8	620.9	621.0	621.1	621.0	620.9	620.8
160°	631.7	631.7	631.7	631.8	632.1	632.3	632.5	632.7	632.5	632.3	632.1
162.5°	641.9	641.8	641.7	641.8	642.1	642.4	642.7	643.1	642.7	642.4	642.1
165°	654.8	654.8	654.8	655.0	655.3	655.7	656.1	656.4	656.1	655.7	655.3
167.5°	665.2	665.1	665.0	665.2	665.6	666.1	666.6	667.0	666.6	666.1	665.6
170°	670.9	670.9	670.9	671.2	671.7	672.1	672.6	673.1	672.6	672.1	671.7
172.5°	675.7	675.7	675.7	675.9	676.4	676.8	677.3	677.8	677.3	676.8	676.4
175°	680.6	680.6	680.6	680.9	681.4	681.8	682.3	682.8	682.3	681.8	681.4
177.5°	683.1	683.1	683.1	683.2	683.6	684.1	684.5	684.9	684.5	684.1	683.6
180°	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4



TEST NUMBER: P332337-830

CATALOG NUMBER: S123RDIP-S1000D585U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4
2.5°	1472.7	1466.0	1461.4	1451.1	1444.5	1437.3	1430.1	1434.7	1434.3	1433.7	1433.7
5°	1423.3	1408.5	1395.2	1377.8	1366.9	1353.4	1343.1	1341.9	1344.4	1335.5	1330.3
7.5°	1374.3	1354.2	1335.1	1316.0	1295.7	1279.5	1269.4	1264.6	1258.1	1252.5	1246.8
10°	1339.9	1316.3	1297.6	1273.8	1252.1	1232.8	1220.7	1212.3	1207.8	1203.3	1195.0
12.5°	1304.6	1281.3	1257.6	1230.8	1210.0	1187.7	1178.6	1169.2	1160.6	1155.6	1144.2
15°	1252.7	1222.6	1197.6	1169.3	1146.2	1124.5	1111.6	1093.0	1090.4	1084.0	1072.5
17.5°	1200.8	1168.0	1133.5	1112.7	1086.6	1063.8	1044.3	1038.1	1019.7	1012.9	1002.8
20°	1159.7	1129.5	1103.2	1075.7	1037.8	1016.6	1001.3	993.0	978.2	969.2	962.8
22.5°	1124.3	1093.6	1063.3	1031.0	999.8	976.1	964.9	951.9	943.8	931.2	924.3
25°	1073.7	1040.4	1003.8	969.2	946.8	928.8	910.9	899.3	887.8	881.9	869.1
27.5°	1015.0	980.1	945.9	919.6	892.1	874.4	858.1	847.8	834.0	824.3	817.2
30°	982.7	941.6	912.1	888.3	853.1	836.4	824.3	811.4	801.2	790.9	783.8
32.5°	945.2	907.8	879.8	850.5	823.3	805.1	789.4	778.1	769.3	759.6	752.5
35°	886.5	855.1	826.1	796.6	776.7	758.2	739.6	729.9	721.6	712.7	706.2
37.5°	833.3	804.0	776.6	748.6	723.9	708.8	693.8	686.5	675.1	669.1	662.6
40°	800.5	771.7	742.2	715.2	689.6	678.0	664.5	653.7	643.4	638.9	631.8
42.5°	764.6	735.7	710.9	681.8	660.8	645.2	632.7	620.8	613.1	606.5	602.6
45°	711.3	685.7	661.3	632.4	612.6	599.1	584.9	574.1	567.0	562.5	555.4
47.5°	659.7	634.0	609.3	584.1	564.9	549.4	535.4	527.7	518.4	512.9	508.1
50°	622.2	599.1	572.8	549.7	530.5	515.1	503.5	493.9	485.6	478.5	475.3
52.5°	587.8	563.2	540.5	519.0	498.6	481.2	470.7	460.5	454.3	446.2	442.4
55°	531.1	507.4	488.1	466.9	447.0	432.3	419.5	410.5	404.1	395.1	390.0
57.5°	477.9	456.6	433.6	415.3	394.7	382.3	371.6	359.5	351.7	344.6	339.6
60°	442.0	417.5	397.7	380.4	362.4	346.4	336.8	327.2	318.8	311.7	307.3
62.5°	404.4	383.2	364.3	345.4	329.0	315.1	303.9	295.9	288.5	284.0	279.6
65°	347.0	330.4	311.1	295.7	280.3	270.0	261.1	254.0	248.8	245.6	241.9
67.5°	294.2	278.0	261.2	246.1	235.8	228.0	222.1	216.0	213.5	209.3	206.8
70°	259.8	243.1	228.4	216.8	206.5	200.8	196.9	192.5	189.8	184.7	182.2
72.5°	222.3	210.3	199.6	190.1	181.9	176.6	171.7	166.3	162.1	156.5	153.9
75°	175.1	164.2	155.9	149.5	144.3	137.2	130.2	124.4	122.5	120.6	120.0
77.5°	129.7	122.8	116.8	111.3	104.9	99.8	98.3	97.0	96.6	95.6	95.6
80°	102.0	95.6	91.0	84.6	80.8	80.8	80.8	79.6	80.2	80.2	80.2
82.5°	75.8	69.9	67.5	65.1	64.4	64.9	64.9	65.1	64.8	65.8	65.3
85°	39.1	39.8	41.1	40.4	41.1	41.1	42.3	41.7	42.3	41.1	42.3
87.5°	15.5	17.2	18.1	18.9	19.7	19.5	20.1	20.3	20.8	20.9	21.0
90°	5.3	6.7	8.2	9.8	11.3	12.9	13.4	13.9	14.3	14.8	15.2
92.5°	16.3	17.2	18.0	18.9	19.8	20.6	21.0	21.4	21.8	22.1	22.3
95°	35.1	36.0	36.9	37.9	38.8	39.8	40.2	40.7	41.2	41.7	41.9
97.5°	58.8	59.5	60.1	60.9	61.5	62.3	62.8	63.3	63.9	64.5	64.7
100°	76.0	76.6	77.2	77.9	78.4	79.0	79.4	79.7	80.1	80.5	80.8
102.5°	94.2	94.8	95.6	96.4	97.2	97.9	98.3	98.7	99.1	99.3	99.5
105°	122.0	122.5	123.7	124.7	125.8	126.9	126.9	126.9	126.9	126.9	127.0
107.5°	154.7	155.0	155.3	155.8	156.3	156.7	157.0	157.4	157.8	158.2	158.3
110°	175.7	175.9	176.2	176.4	176.6	176.9	177.4	177.9	178.3	178.8	178.9



TEST NUMBER: P332337-830

CATALOG NUMBER: S123RDIP-S1000D585U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	196.8	196.9	197.0	197.0	197.1	197.1	197.7	198.2	198.8	199.3	199.6
115°	229.9	230.0	229.7	229.5	229.2	229.0	229.1	229.2	229.4	229.5	229.5
117.5°	261.9	261.8	261.6	261.3	261.0	260.6	260.6	260.6	260.5	260.5	260.3
120°	284.1	284.1	283.5	283.0	282.3	281.7	281.6	281.4	281.3	281.3	281.1
122.5°	304.3	304.4	304.2	303.9	303.5	303.2	302.9	302.6	302.3	302.0	301.6
125°	335.8	335.9	335.6	335.5	335.2	335.0	334.4	333.9	333.5	333.0	332.5
127.5°	367.1	367.4	367.1	366.8	366.6	366.4	365.7	365.0	364.3	363.6	363.1
130°	387.7	388.0	387.7	387.3	386.9	386.5	386.1	385.6	385.1	384.7	384.0
132.5°	407.5	407.8	407.6	407.3	407.0	406.8	406.1	405.6	405.0	404.4	403.9
135°	436.7	437.1	436.9	436.8	436.7	436.6	436.1	435.5	435.1	434.6	434.2
137.5°	464.2	464.7	465.0	465.2	465.6	465.9	465.4	464.9	464.4	463.9	463.4
140°	483.5	483.9	484.0	484.2	484.3	484.4	484.3	484.2	484.0	483.9	483.4
142.5°	501.1	501.6	501.8	502.0	502.3	502.5	502.4	502.2	502.1	502.0	501.6
145°	527.3	527.5	527.9	528.3	528.7	529.0	528.9	528.8	528.7	528.6	528.2
147.5°	552.1	552.5	552.9	553.2	553.6	553.8	553.8	553.8	553.8	553.8	553.5
150°	568.2	568.4	568.6	568.8	569.1	569.3	569.3	569.3	569.3	569.3	569.0
152.5°	582.3	582.5	582.7	582.8	583.0	583.1	583.2	583.5	583.7	583.9	583.6
155°	602.7	602.8	602.9	602.9	603.1	603.2	603.7	604.2	604.6	605.1	604.9
157.5°	620.6	620.6	620.7	620.8	620.9	620.9	621.4	622.0	622.5	622.9	622.8
160°	631.8	631.7	631.7	631.7	631.7	631.7	632.3	632.9	633.5	634.0	634.1
162.5°	641.8	641.7	641.8	641.9	642.0	642.1	642.6	643.2	643.9	644.4	644.3
165°	655.0	654.8	654.8	654.8	654.8	654.8	655.5	656.3	657.0	657.7	657.6
167.5°	665.2	665.0	665.1	665.2	665.2	665.3	666.1	666.8	667.6	668.4	668.4
170°	671.2	670.9	670.9	670.9	670.9	670.9	671.8	672.6	673.4	674.3	674.3
172.5°	675.9	675.7	675.7	675.7	675.7	675.7	676.5	677.1	677.9	678.6	678.6
175°	680.9	680.6	680.6	680.6	680.6	680.6	681.4	682.0	682.8	683.5	683.4
177.5°	683.2	683.1	683.1	683.1	683.1	683.1	683.6	684.3	684.9	685.4	685.3
180°	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4



TEST NUMBER: P332337-830

CATALOG NUMBER: S123RDIP-S1000D585U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4
2.5°	1427.6	1427.0	1427.6	1425.5	1427.6	1427.0	1427.6	1433.7	1433.7	1434.3	1434.7
5°	1328.4	1327.8	1325.9	1320.0	1325.9	1327.8	1328.4	1330.3	1335.5	1344.4	1341.9
7.5°	1241.8	1241.0	1235.3	1235.4	1235.3	1241.0	1241.8	1246.8	1252.5	1258.1	1264.6
10°	1190.5	1191.1	1183.5	1178.9	1183.5	1191.1	1190.5	1195.0	1203.3	1207.8	1212.3
12.5°	1140.8	1137.7	1131.6	1126.6	1131.6	1137.7	1140.8	1144.2	1155.6	1160.6	1169.2
15°	1075.1	1068.7	1053.2	1054.5	1053.2	1068.7	1075.1	1072.5	1084.0	1090.4	1093.0
17.5°	997.7	993.0	992.7	983.7	992.7	993.0	997.7	1002.8	1012.9	1019.7	1038.1
20°	952.5	949.3	950.6	941.6	950.6	949.3	952.5	962.8	969.2	978.2	993.0
22.5°	917.1	913.9	908.5	905.7	908.5	913.9	917.1	924.3	931.2	943.8	951.9
25°	865.3	860.2	855.1	858.3	855.1	860.2	865.3	869.1	881.9	887.8	899.3
27.5°	813.5	809.6	804.5	803.8	804.5	809.6	813.5	817.2	824.3	834.0	847.8
30°	780.6	776.7	774.2	771.0	774.2	776.7	780.6	783.8	790.9	801.2	811.4
32.5°	747.2	746.5	741.9	741.2	741.9	746.5	747.2	752.5	759.6	769.3	778.1
35°	703.6	699.8	698.5	699.2	698.5	699.8	703.6	706.2	712.7	721.6	729.9
37.5°	662.2	657.0	654.8	652.4	654.8	657.0	662.2	662.6	669.1	675.1	686.5
40°	632.4	627.4	626.0	624.7	626.0	627.4	632.4	631.8	638.9	643.4	653.7
42.5°	599.1	597.0	596.3	594.0	596.3	597.0	599.1	602.6	606.5	613.1	620.8
45°	553.6	552.9	549.0	550.4	549.0	552.9	553.6	555.4	562.5	567.0	574.1
47.5°	505.6	502.8	500.0	501.8	500.0	502.8	505.6	508.1	512.9	518.4	527.7
50°	472.8	471.5	465.7	466.9	465.7	471.5	472.8	475.3	478.5	485.6	493.9
52.5°	439.9	435.0	432.8	432.1	432.8	435.0	439.9	442.4	446.2	454.3	460.5
55°	385.5	379.8	377.2	375.9	377.2	379.8	385.5	390.0	395.1	404.1	410.5
57.5°	332.2	330.5	328.6	330.0	328.6	330.5	332.2	339.6	344.6	351.7	359.5
60°	300.9	300.9	300.9	300.2	300.9	300.9	300.9	307.3	311.7	318.8	327.2
62.5°	276.7	275.1	274.7	275.6	274.7	275.1	276.7	279.6	284.0	288.5	295.9
65°	239.9	239.2	236.7	236.0	236.7	239.2	239.9	241.9	245.6	248.8	254.0
67.5°	205.1	202.8	202.1	201.1	202.1	202.8	205.1	206.8	209.3	213.5	216.0
70°	179.0	177.7	173.8	174.5	173.8	177.7	179.0	182.2	184.7	189.8	192.5
72.5°	150.7	149.5	148.6	147.8	148.6	149.5	150.7	153.9	156.5	162.1	166.3
75°	119.3	118.7	118.0	120.6	118.0	118.7	119.3	120.0	120.6	122.5	124.4
77.5°	95.6	95.6	96.0	94.9	96.0	95.6	95.6	95.6	95.6	96.6	97.0
80°	80.2	80.2	79.6	79.6	79.6	80.2	80.2	80.2	80.2	80.2	79.6
82.5°	64.3	64.8	65.1	64.2	65.1	64.8	64.3	65.3	65.8	64.8	65.1
85°	42.3	41.7	43.0	42.3	43.0	41.7	42.3	42.3	41.1	42.3	41.7
87.5°	22.1	21.1	21.1	21.7	21.1	21.1	22.1	21.0	20.9	20.8	20.3
90°	15.5	15.6	15.9	16.1	15.9	15.6	15.5	15.2	14.8	14.3	13.9
92.5°	22.1	22.0	21.9	21.7	21.9	22.0	22.1	22.3	22.1	21.8	21.4
95°	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.7	41.2	40.7
97.5°	64.7	64.6	64.6	64.5	64.6	64.6	64.7	64.7	64.5	63.9	63.3
100°	81.0	81.2	81.4	81.7	81.4	81.2	81.0	80.8	80.5	80.1	79.7
102.5°	99.5	99.4	99.4	99.3	99.4	99.4	99.5	99.5	99.3	99.1	98.7
105°	127.2	127.4	127.7	128.0	127.7	127.4	127.2	127.0	126.9	126.9	126.9
107.5°	158.2	158.1	157.9	157.8	157.9	158.1	158.2	158.3	158.2	157.8	157.4
110°	178.7	178.4	178.2	178.0	178.2	178.4	178.7	178.9	178.8	178.3	177.9



TEST NUMBER: P332337-830

CATALOG NUMBER: S123RDIP-S1000D585U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	199.6	199.5	199.5	199.4	199.5	199.5	199.6	199.6	199.3	198.8	198.2
115°	229.4	229.2	229.1	229.0	229.1	229.2	229.4	229.5	229.5	229.4	229.2
117.5°	260.0	259.7	259.4	259.0	259.4	259.7	260.0	260.3	260.5	260.5	260.6
120°	280.8	280.6	280.3	280.1	280.3	280.6	280.8	281.1	281.3	281.3	281.4
122.5°	301.3	301.0	300.7	300.3	300.7	301.0	301.3	301.6	302.0	302.3	302.6
125°	332.1	331.6	331.1	330.6	331.1	331.6	332.1	332.5	333.0	333.5	333.9
127.5°	362.5	361.9	361.4	360.8	361.4	361.9	362.5	363.1	363.6	364.3	365.0
130°	383.1	382.3	381.4	380.6	381.4	382.3	383.1	384.0	384.7	385.1	385.6
132.5°	403.2	402.6	401.9	401.2	401.9	402.6	403.2	403.9	404.4	405.0	405.6
135°	434.0	433.8	433.6	433.3	433.6	433.8	434.0	434.2	434.6	435.1	435.5
137.5°	463.0	462.5	462.0	461.6	462.0	462.5	463.0	463.4	463.9	464.4	464.9
140°	482.6	481.7	480.9	480.1	480.9	481.7	482.6	483.4	483.9	484.0	484.2
142.5°	501.0	500.3	499.6	499.0	499.6	500.3	501.0	501.6	502.0	502.1	502.2
145°	527.7	527.3	526.8	526.3	526.8	527.3	527.7	528.2	528.6	528.7	528.8
147.5°	552.8	552.0	551.4	550.6	551.4	552.0	552.8	553.5	553.8	553.8	553.8
150°	568.3	567.5	566.8	566.1	566.8	567.5	568.3	569.0	569.3	569.3	569.3
152.5°	583.1	582.4	581.8	581.2	581.8	582.4	583.1	583.6	583.9	583.7	583.5
155°	604.1	603.2	602.5	601.6	602.5	603.2	604.1	604.9	605.1	604.6	604.2
157.5°	622.2	621.5	620.9	620.2	620.9	621.5	622.2	622.8	622.9	622.5	622.0
160°	633.7	633.2	632.7	632.3	632.7	633.2	633.7	634.1	634.0	633.5	632.9
162.5°	643.6	642.8	642.1	641.3	642.1	642.8	643.6	644.3	644.4	643.9	643.2
165°	656.8	655.9	655.2	654.3	655.2	655.9	656.8	657.6	657.7	657.0	656.3
167.5°	667.6	666.8	666.1	665.3	666.1	666.8	667.6	668.4	668.4	667.6	666.8
170°	673.4	672.6	671.8	670.9	671.8	672.6	673.4	674.3	674.3	673.4	672.6
172.5°	677.8	676.9	676.1	675.2	676.1	676.9	677.8	678.6	678.6	677.9	677.1
175°	682.6	681.7	680.9	680.0	680.9	681.7	682.6	683.4	683.5	682.8	682.0
177.5°	684.7	684.0	683.3	682.7	683.3	684.0	684.7	685.3	685.4	684.9	684.3
180°	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4



TEST NUMBER: P332337-830

CATALOG NUMBER: S123RDIP-S1000D585U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4
2.5°	1430.1	1437.3	1444.5	1451.1	1461.4	1466.0	1472.7	1475.3	1483.0	1494.3	1503.5
5°	1343.1	1353.4	1366.9	1377.8	1395.2	1408.5	1423.3	1437.5	1454.2	1477.8	1499.0
7.5°	1269.4	1279.5	1295.7	1316.0	1335.1	1354.2	1374.3	1393.5	1417.4	1451.4	1485.2
10°	1220.7	1232.8	1252.1	1273.8	1297.6	1316.3	1339.9	1364.3	1393.8	1432.9	1473.4
12.5°	1178.6	1187.7	1210.0	1230.8	1257.6	1281.3	1304.6	1333.0	1366.6	1408.3	1457.0
15°	1111.6	1124.5	1146.2	1169.3	1197.6	1222.6	1252.7	1287.3	1320.0	1371.4	1430.4
17.5°	1044.3	1063.8	1086.6	1112.7	1133.5	1168.0	1200.8	1236.3	1276.6	1331.0	1395.7
20°	1001.3	1016.6	1037.8	1075.7	1103.2	1129.5	1159.7	1204.0	1241.1	1302.8	1370.1
22.5°	964.9	976.1	999.8	1031.0	1063.3	1093.6	1124.3	1166.5	1212.4	1270.9	1344.0
25°	910.9	928.8	946.8	969.2	1003.8	1040.4	1073.7	1109.7	1158.4	1220.7	1299.6
27.5°	858.1	874.4	892.1	919.6	945.9	980.1	1015.0	1056.2	1108.5	1174.3	1254.3
30°	824.3	836.4	853.1	888.3	912.1	941.6	982.7	1019.3	1068.0	1137.9	1222.6
32.5°	789.4	805.1	823.3	850.5	879.8	907.8	945.2	984.9	1034.6	1103.5	1190.2
35°	739.6	758.2	776.7	796.6	826.1	855.1	886.5	930.1	980.7	1047.4	1132.7
37.5°	693.8	708.8	723.9	748.6	776.6	804.0	833.3	876.3	924.1	996.0	1074.3
40°	664.5	678.0	689.6	715.2	742.2	771.7	800.5	838.4	889.7	957.1	1032.7
42.5°	632.7	645.2	660.8	681.8	710.9	735.7	764.6	800.4	848.6	917.0	983.4
45°	584.9	599.1	612.6	632.4	661.3	685.7	711.3	745.4	794.8	851.2	910.2
47.5°	535.4	549.4	564.9	584.1	609.3	634.0	659.7	689.8	734.8	790.2	830.0
50°	503.5	515.1	530.5	549.7	572.8	599.1	622.2	654.9	697.9	741.5	776.1
52.5°	470.7	481.2	498.6	519.0	540.5	563.2	587.8	615.9	654.8	695.8	723.3
55°	419.5	432.3	447.0	466.9	488.1	507.4	531.1	560.0	590.8	621.5	640.2
57.5°	371.6	382.3	394.7	415.3	433.6	456.6	477.9	500.3	528.8	552.0	564.2
60°	336.8	346.4	362.4	380.4	397.7	417.5	442.0	464.4	486.2	504.8	514.4
62.5°	303.9	315.1	329.0	345.4	364.3	383.2	404.4	423.4	442.6	458.6	465.1
65°	261.1	270.0	280.3	295.7	311.1	330.4	347.0	366.3	380.4	389.4	395.1
67.5°	222.1	228.0	235.8	246.1	261.2	278.0	294.2	309.2	320.9	327.2	332.2
70°	196.9	200.8	206.5	216.8	228.4	243.1	259.8	270.7	281.0	286.1	291.2
72.5°	171.7	176.6	181.9	190.1	199.6	210.3	222.3	235.8	241.5	247.6	250.7
75°	130.2	137.2	144.3	149.5	155.9	164.2	175.1	183.4	186.6	191.8	192.5
77.5°	98.3	99.8	104.9	111.3	116.8	122.8	129.7	137.1	138.6	141.4	143.1
80°	80.8	80.8	80.8	84.6	91.0	95.6	102.0	105.8	108.4	109.1	109.7
82.5°	64.9	64.9	64.4	65.1	67.5	69.9	75.8	80.2	82.2	81.8	80.4
85°	42.3	41.1	41.1	40.4	41.1	39.8	39.1	41.7	45.5	45.5	44.3
87.5°	20.1	19.5	19.7	18.9	18.1	17.2	15.5	15.7	15.5	17.2	16.5
90°	13.4	12.9	11.3	9.8	8.2	6.7	5.3	4.1	2.9	1.7	0.6
92.5°	21.0	20.6	19.8	18.9	18.0	17.2	16.3	15.5	14.6	13.9	13.0
95°	40.2	39.8	38.8	37.9	36.9	36.0	35.1	34.2	33.4	32.5	31.8
97.5°	62.8	62.3	61.5	60.9	60.1	59.5	58.8	58.2	57.6	56.9	56.4
100°	79.4	79.0	78.4	77.9	77.2	76.6	76.0	75.3	74.6	73.8	73.1
102.5°	98.3	97.9	97.2	96.4	95.6	94.8	94.2	93.8	93.3	92.9	92.5
105°	126.9	126.9	125.8	124.7	123.7	122.5	122.0	121.7	121.4	121.2	120.9
107.5°	157.0	156.7	156.3	155.8	155.3	155.0	154.7	154.5	154.4	154.2	154.1
110°	177.4	176.9	176.6	176.4	176.2	175.9	175.7	175.4	175.2	174.9	174.7



TEST NUMBER: P332337-830

CATALOG NUMBER: S123RDIP-S1000D585U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	197.7	197.1	197.1	197.0	197.0	196.9	196.8	196.6	196.5	196.3	196.2
115°	229.1	229.0	229.2	229.5	229.7	230.0	229.9	229.6	229.2	228.8	228.5
117.5°	260.6	260.6	261.0	261.3	261.6	261.8	261.9	261.6	261.5	261.2	261.0
120°	281.6	281.7	282.3	283.0	283.5	284.1	284.1	283.3	282.6	281.9	281.2
122.5°	302.9	303.2	303.5	303.9	304.2	304.4	304.3	303.8	303.3	302.7	302.3
125°	334.4	335.0	335.2	335.5	335.6	335.9	335.8	335.5	335.1	334.8	334.4
127.5°	365.7	366.4	366.6	366.8	367.1	367.4	367.1	366.4	365.6	364.9	364.1
130°	386.1	386.5	386.9	387.3	387.7	388.0	387.7	386.7	385.8	384.8	383.9
132.5°	406.1	406.8	407.0	407.3	407.6	407.8	407.5	406.5	405.6	404.6	403.6
135°	436.1	436.6	436.7	436.8	436.9	437.1	436.7	436.0	435.3	434.6	433.9
137.5°	465.4	465.9	465.6	465.2	465.0	464.7	464.2	463.6	463.0	462.4	461.8
140°	484.3	484.4	484.3	484.2	484.0	483.9	483.5	483.0	482.4	481.7	481.2
142.5°	502.4	502.5	502.3	502.0	501.8	501.6	501.1	500.6	500.0	499.4	498.8
145°	528.9	529.0	528.7	528.3	527.9	527.5	527.3	527.1	526.8	526.6	526.3
147.5°	553.8	553.8	553.6	553.2	552.9	552.5	552.1	551.7	551.3	550.8	550.4
150°	569.3	569.3	569.1	568.8	568.6	568.4	568.2	567.9	567.7	567.4	567.2
152.5°	583.2	583.1	583.0	582.8	582.7	582.5	582.3	581.9	581.6	581.3	581.0
155°	603.7	603.2	603.1	602.9	602.9	602.8	602.7	602.7	602.7	602.7	602.7
157.5°	621.4	620.9	620.9	620.8	620.7	620.6	620.6	620.8	620.9	621.0	621.1
160°	632.3	631.7	631.7	631.7	631.7	631.7	631.8	632.1	632.3	632.5	632.7
162.5°	642.6	642.1	642.0	641.9	641.8	641.7	641.8	642.1	642.4	642.7	643.1
165°	655.5	654.8	654.8	654.8	654.8	654.8	655.0	655.3	655.7	656.1	656.4
167.5°	666.1	665.3	665.2	665.2	665.1	665.0	665.2	665.6	666.1	666.6	667.0
170°	671.8	670.9	670.9	670.9	670.9	670.9	671.2	671.7	672.1	672.6	673.1
172.5°	676.5	675.7	675.7	675.7	675.7	675.7	675.9	676.4	676.8	677.3	677.8
175°	681.4	680.6	680.6	680.6	680.6	680.6	680.9	681.4	681.8	682.3	682.8
177.5°	683.6	683.1	683.1	683.1	683.1	683.1	683.2	683.6	684.1	684.5	684.9
180°	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4



TEST NUMBER: P332337-830

CATALOG NUMBER: S123RDIP-S1000D585U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4
2.5°	1506.6	1512.2	1519.4	1530.2	1538.4	1545.6	1547.1	1549.2	1554.3	1563.0	1569.7
5°	1516.4	1531.1	1554.8	1577.9	1603.0	1623.4	1642.7	1656.1	1669.0	1695.9	1717.8
7.5°	1513.3	1546.1	1583.3	1624.8	1666.7	1707.3	1745.1	1778.9	1812.4	1851.7	1896.5
10°	1511.2	1549.7	1599.7	1652.9	1711.4	1768.4	1823.6	1866.6	1916.6	1961.5	2018.5
12.5°	1501.5	1556.9	1616.6	1684.8	1756.5	1822.3	1894.9	1954.3	2011.6	2076.4	2142.8
15°	1488.7	1556.1	1631.8	1722.2	1831.3	1910.8	1985.2	2088.5	2159.1	2229.6	2324.6
17.5°	1465.6	1547.7	1642.3	1759.8	1850.8	1957.7	2069.6	2151.3	2246.3	2345.7	2431.7
20°	1447.1	1542.7	1648.5	1764.0	1880.0	1996.1	2104.5	2202.1	2300.2	2415.0	2485.6
22.5°	1428.6	1523.1	1633.0	1755.8	1880.6	2002.8	2125.5	2240.0	2350.4	2466.3	2556.4
25°	1389.3	1501.6	1620.9	1746.0	1869.2	2003.8	2150.0	2277.7	2414.3	2533.6	2618.9
27.5°	1349.5	1452.5	1571.2	1698.1	1835.0	1994.2	2166.2	2311.3	2448.3	2533.6	2560.5
30°	1313.6	1422.7	1531.7	1660.7	1808.8	1986.5	2169.4	2335.4	2447.7	2484.9	2457.3
32.5°	1277.2	1376.0	1484.0	1616.0	1773.4	1967.6	2173.4	2321.1	2388.7	2360.2	2248.0
35°	1213.0	1302.1	1406.7	1538.8	1719.7	1957.0	2156.5	2256.5	2239.9	2079.5	1867.8
37.5°	1144.2	1216.8	1313.6	1451.8	1664.0	1915.3	2083.6	2098.4	1954.1	1707.9	1463.4
40°	1089.8	1155.2	1254.6	1398.9	1620.9	1874.2	2010.3	1950.6	1726.7	1452.8	1248.9
42.5°	1036.9	1092.1	1187.9	1343.5	1579.9	1818.4	1900.9	1771.0	1512.8	1253.8	1068.3
45°	947.3	999.4	1095.5	1255.3	1495.8	1711.4	1700.4	1474.6	1216.2	1007.7	853.8
47.5°	862.4	907.9	998.2	1161.2	1397.1	1551.0	1449.0	1208.7	989.5	822.2	712.4
50°	802.4	847.3	937.2	1098.2	1318.1	1430.4	1284.8	1053.2	852.4	713.9	626.7
52.5°	745.0	788.8	870.9	1027.8	1222.7	1289.8	1133.4	918.8	751.4	631.8	556.9
55°	664.5	697.9	771.7	921.7	1067.3	1082.7	924.3	744.7	606.8	523.4	472.1
57.5°	582.6	611.2	684.2	803.7	905.8	897.9	747.6	592.3	499.5	437.4	400.3
60°	529.1	557.4	621.5	724.2	801.2	774.2	636.3	511.2	431.7	386.2	356.7
62.5°	479.4	501.4	561.5	636.4	691.8	661.3	543.9	440.5	377.3	338.9	315.6
65°	407.3	425.3	473.3	512.5	543.3	513.8	416.3	344.4	298.9	271.9	255.9
67.5°	338.8	350.2	380.6	394.7	416.4	384.1	313.0	264.9	239.0	216.3	205.1
70°	295.7	304.1	320.1	331.6	337.4	304.1	251.5	216.1	194.4	178.3	171.3
72.5°	252.6	260.0	263.2	272.6	269.7	238.4	202.2	174.1	158.4	147.5	138.5
75°	193.0	196.2	193.0	189.3	180.9	159.1	134.0	120.0	108.4	103.3	100.1
77.5°	140.7	139.7	135.3	129.3	115.1	101.3	87.8	83.1	78.1	75.4	74.3
80°	108.4	105.8	102.0	92.4	80.2	70.6	67.4	64.2	62.2	59.0	58.3
82.5°	80.7	79.2	72.8	64.7	56.1	51.6	48.9	47.7	45.8	44.1	44.0
85°	43.0	41.1	34.0	29.5	28.2	27.0	26.3	26.3	23.8	23.1	23.1
87.5°	14.2	11.4	11.1	9.8	10.1	9.3	10.2	9.4	9.2	9.9	9.0
90°	1.7	2.9	4.1	5.3	6.7	8.2	9.8	11.3	12.9	13.4	13.9
92.5°	13.9	14.6	15.5	16.3	17.2	18.0	18.9	19.8	20.6	21.0	21.4
95°	32.5	33.4	34.2	35.1	36.0	36.9	37.9	38.8	39.8	40.2	40.7
97.5°	56.9	57.6	58.2	58.8	59.5	60.1	60.9	61.5	62.3	62.8	63.3
100°	73.8	74.6	75.3	76.0	76.6	77.2	77.9	78.4	79.0	79.4	79.7
102.5°	92.9	93.3	93.8	94.2	94.8	95.6	96.4	97.2	97.9	98.3	98.7
105°	121.2	121.4	121.7	122.0	122.5	123.7	124.7	125.8	126.9	126.9	126.9
107.5°	154.2	154.4	154.5	154.7	155.0	155.3	155.8	156.3	156.7	157.0	157.4
110°	174.9	175.2	175.4	175.7	175.9	176.2	176.4	176.6	176.9	177.4	177.9





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	196.3	196.5	196.6	196.8	196.9	197.0	197.0	197.1	197.1	197.7	198.2
115°	228.8	229.2	229.6	229.9	230.0	229.7	229.5	229.2	229.0	229.1	229.2
117.5°	261.2	261.5	261.6	261.9	261.8	261.6	261.3	261.0	260.6	260.6	260.6
120°	281.9	282.6	283.3	284.1	284.1	283.5	283.0	282.3	281.7	281.6	281.4
122.5°	302.7	303.3	303.8	304.3	304.4	304.2	303.9	303.5	303.2	302.9	302.6
125°	334.8	335.1	335.5	335.8	335.9	335.6	335.5	335.2	335.0	334.4	333.9
127.5°	364.9	365.6	366.4	367.1	367.4	367.1	366.8	366.6	366.4	365.7	365.0
130°	384.8	385.8	386.7	387.7	388.0	387.7	387.3	386.9	386.5	386.1	385.6
132.5°	404.6	405.6	406.5	407.5	407.8	407.6	407.3	407.0	406.8	406.1	405.6
135°	434.6	435.3	436.0	436.7	437.1	436.9	436.8	436.7	436.6	436.1	435.5
137.5°	462.4	463.0	463.6	464.2	464.7	465.0	465.2	465.6	465.9	465.4	464.9
140°	481.7	482.4	483.0	483.5	483.9	484.0	484.2	484.3	484.4	484.3	484.2
142.5°	499.4	500.0	500.6	501.1	501.6	501.8	502.0	502.3	502.5	502.4	502.2
145°	526.6	526.8	527.1	527.3	527.5	527.9	528.3	528.7	529.0	528.9	528.8
147.5°	550.8	551.3	551.7	552.1	552.5	552.9	553.2	553.6	553.8	553.8	553.8
150°	567.4	567.7	567.9	568.2	568.4	568.6	568.8	569.1	569.3	569.3	569.3
152.5°	581.3	581.6	581.9	582.3	582.5	582.7	582.8	583.0	583.1	583.2	583.5
155°	602.7	602.7	602.7	602.7	602.8	602.9	602.9	603.1	603.2	603.7	604.2
157.5°	621.0	620.9	620.8	620.6	620.6	620.7	620.8	620.9	620.9	621.4	622.0
160°	632.5	632.3	632.1	631.8	631.7	631.7	631.7	631.7	631.7	632.3	632.9
162.5°	642.7	642.4	642.1	641.8	641.7	641.8	641.9	642.0	642.1	642.6	643.2
165°	656.1	655.7	655.3	655.0	654.8	654.8	654.8	654.8	654.8	655.5	656.3
167.5°	666.6	666.1	665.6	665.2	665.0	665.1	665.2	665.2	665.3	666.1	666.8
170°	672.6	672.1	671.7	671.2	670.9	670.9	670.9	670.9	670.9	671.8	672.6
172.5°	677.3	676.8	676.4	675.9	675.7	675.7	675.7	675.7	675.7	676.5	677.1
175°	682.3	681.8	681.4	680.9	680.6	680.6	680.6	680.6	680.6	681.4	682.0
177.5°	684.5	684.1	683.6	683.2	683.1	683.1	683.1	683.1	683.1	683.6	684.3
180°	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4
2.5°	1580.5	1580.5	1582.5	1590.3	1591.3	1597.9	1595.9
5°	1737.0	1749.2	1753.7	1772.9	1784.4	1789.6	1779.3
7.5°	1928.4	1962.8	1979.1	1999.2	2017.0	2022.4	2008.5
10°	2067.9	2103.8	2134.0	2152.7	2169.9	2181.5	2196.2
12.5°	2202.9	2247.0	2275.7	2302.0	2319.8	2334.4	2336.8
15°	2349.6	2416.3	2466.9	2504.1	2522.7	2532.3	2528.6
17.5°	2497.5	2559.3	2595.4	2633.4	2659.1	2660.4	2661.2
20°	2581.2	2641.4	2683.1	2711.3	2740.2	2738.9	2745.3
22.5°	2637.0	2684.5	2716.5	2737.0	2746.9	2742.0	2743.3
25°	2663.2	2677.3	2671.5	2638.8	2630.5	2600.4	2605.5
27.5°	2528.3	2461.5	2392.6	2303.8	2233.7	2177.7	2180.6
30°	2345.0	2227.0	2092.4	1979.4	1878.1	1849.9	1789.6
32.5°	2089.1	1911.9	1754.2	1649.0	1562.0	1538.4	1485.8
35°	1654.9	1483.0	1320.7	1223.2	1184.7	1130.9	1130.2
37.5°	1286.3	1134.9	1049.1	976.0	937.6	905.0	901.8
40°	1082.1	964.0	899.3	846.7	808.9	784.5	778.7
42.5°	939.4	844.0	783.3	750.7	721.6	709.1	699.6
45°	767.1	703.0	660.6	631.1	617.7	608.0	602.9
47.5°	641.7	598.7	569.9	550.3	539.3	529.1	531.9
50°	573.4	538.2	517.0	498.4	490.0	483.0	483.6
52.5°	518.5	486.8	469.8	456.3	445.9	440.9	438.5
55°	440.0	420.1	402.8	393.2	387.4	380.4	378.4
57.5°	375.3	360.0	345.8	335.0	333.6	326.8	327.6
60°	332.2	319.4	307.9	302.1	297.7	291.8	293.8
62.5°	296.9	286.1	275.6	270.8	266.4	262.1	263.0
65°	243.1	232.8	226.4	223.9	222.0	220.0	218.1
67.5°	193.7	187.5	183.4	178.0	174.0	173.3	171.4
70°	163.0	154.6	147.5	140.4	138.6	137.9	138.6
72.5°	130.6	125.4	123.4	120.0	119.6	117.9	119.0
75°	98.1	96.2	94.9	92.4	92.4	92.4	92.4
77.5°	72.4	71.2	70.4	69.9	69.3	68.3	68.2
80°	56.5	55.8	54.5	54.5	53.9	54.5	53.9
82.5°	42.6	42.5	41.2	41.2	40.5	40.2	40.5
85°	21.8	21.2	22.4	21.2	21.8	20.5	21.8
87.5°	9.0	9.1	8.7	8.8	8.3	9.3	8.4
90°	14.3	14.8	15.2	15.5	15.6	15.9	16.1
92.5°	21.8	22.1	22.3	22.1	22.0	21.9	21.7
95°	41.2	41.7	41.9	41.9	41.9	41.9	41.9
97.5°	63.9	64.5	64.7	64.7	64.6	64.6	64.5
100°	80.1	80.5	80.8	81.0	81.2	81.4	81.7
102.5°	99.1	99.3	99.5	99.5	99.4	99.4	99.3
105°	126.9	126.9	127.0	127.2	127.4	127.7	128.0
107.5°	157.8	158.2	158.3	158.2	158.1	157.9	157.8
110°	178.3	178.8	178.9	178.7	178.4	178.2	178.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	198.8	199.3	199.6	199.6	199.5	199.5	199.4
115°	229.4	229.5	229.5	229.4	229.2	229.1	229.0
117.5°	260.5	260.5	260.3	260.0	259.7	259.4	259.0
120°	281.3	281.3	281.1	280.8	280.6	280.3	280.1
122.5°	302.3	302.0	301.6	301.3	301.0	300.7	300.3
125°	333.5	333.0	332.5	332.1	331.6	331.1	330.6
127.5°	364.3	363.6	363.1	362.5	361.9	361.4	360.8
130°	385.1	384.7	384.0	383.1	382.3	381.4	380.6
132.5°	405.0	404.4	403.9	403.2	402.6	401.9	401.2
135°	435.1	434.6	434.2	434.0	433.8	433.6	433.3
137.5°	464.4	463.9	463.4	463.0	462.5	462.0	461.6
140°	484.0	483.9	483.4	482.6	481.7	480.9	480.1
142.5°	502.1	502.0	501.6	501.0	500.3	499.6	499.0
145°	528.7	528.6	528.2	527.7	527.3	526.8	526.3
147.5°	553.8	553.8	553.5	552.8	552.0	551.4	550.6
150°	569.3	569.3	569.0	568.3	567.5	566.8	566.1
152.5°	583.7	583.9	583.6	583.1	582.4	581.8	581.2
155°	604.6	605.1	604.9	604.1	603.2	602.5	601.6
157.5°	622.5	622.9	622.8	622.2	621.5	620.9	620.2
160°	633.5	634.0	634.1	633.7	633.2	632.7	632.3
162.5°	643.9	644.4	644.3	643.6	642.8	642.1	641.3
165°	657.0	657.7	657.6	656.8	655.9	655.2	654.3
167.5°	667.6	668.4	668.4	667.6	666.8	666.1	665.3
170°	673.4	674.3	674.3	673.4	672.6	671.8	670.9
172.5°	677.9	678.6	678.6	677.8	676.9	676.1	675.2
175°	682.8	683.5	683.4	682.6	681.7	680.9	680.0
177.5°	684.9	685.4	685.3	684.7	684.0	683.3	682.7
180°	684.4	684.4	684.4	684.4	684.4	684.4	684.4

(END OF REPORT)