

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: P332454

Luminaire Tested: **S123RDIW-S1000D755U835-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332454  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123RDIW-S1000D755U835-4F0-1E-UDD-A  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 755 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

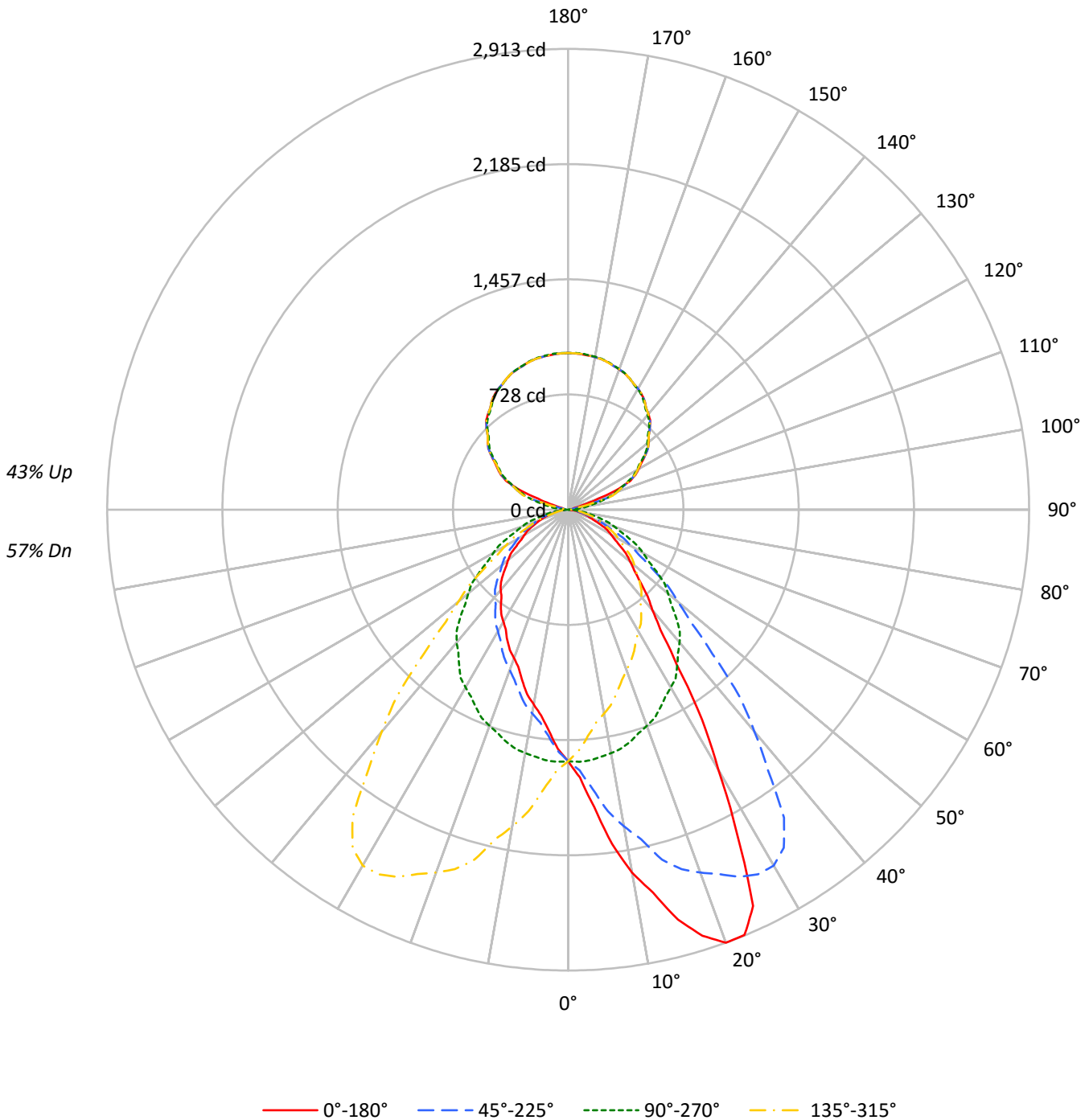
Lumens per Lamp: N/A  
Luminaire Lumens: 6981.4 lumens  
Efficiency: N/A  
Efficacy: 130.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: General Diffuse  
  
Input Watts (W): 53.6  
Input Voltage (V): 120  
Input Current (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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	57
1	100	96	92	89	93	89	86	83	77	75	73	66	65	63	56	55	54	49
2	92	84	79	74	85	79	74	70	69	65	61	59	56	54	50	48	46	42
3	84	75	68	62	78	70	64	59	61	56	52	53	49	46	45	42	40	37
4	77	67	59	53	72	63	56	51	55	49	45	47	43	40	41	38	35	32
5	71	60	52	46	66	56	49	44	49	44	40	43	39	35	37	34	31	28
6	66	54	46	40	61	51	44	38	45	39	35	39	35	31	34	30	28	25
7	61	49	41	36	57	46	39	34	41	35	31	36	31	28	31	27	25	22
8	57	45	37	32	53	42	35	30	37	32	28	33	28	25	29	25	22	20
9	53	41	33	28	49	39	32	27	34	29	25	30	26	23	26	23	20	18
10	49	38	30	26	46	36	29	25	32	26	23	28	24	21	25	21	19	17

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

	0°	90°	180°	270°
0°	17111	17111	17111	17111
5°	20398	17184	15132	17184
10°	25468	17086	13671	17086
15°	29895	16912	12467	16912
20°	33364	16651	11443	16651
25°	32831	16376	10815	16376
30°	23599	16122	10167	16122
35°	15757	15792	9747	15792
40°	11609	15396	9313	15396
45°	9738	14700	8888	14700
50°	8592	13788	8296	13788
55°	7535	12746	7484	12746
60°	6710	11750	6857	11750
65°	5894	10677	6378	10677
70°	4626	9725	5825	9725
75°	4076	8492	5319	8492
80°	3546	7215	5232	7215
85°	2853	5805	5545	5805



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.3	2.2
10°-20°	488.4	7.0
20°-30°	767.3	11.0
30°-40°	800.5	11.5
40°-50°	685.1	9.8
50°-60°	522.2	7.5
60°-70°	334.7	4.8
70°-80°	161.0	2.3
80°-90°	45.4	0.7
90°-100°	36.0	0.5
100°-110°	171.6	2.5
110°-120°	412.3	5.9
120°-130°	525.0	7.5
130°-140°	560.9	8.0
140°-150°	524.5	7.5
150°-160°	423.1	6.1
160°-170°	273.1	3.9
170°-180°	94.1	1.3
0°-30°	1412.0	20.2
0°-40°	2212.6	31.7
0°-60°	3419.8	49.0
0°-90°	3960.9	56.7
90°-120°	619.9	8.9
90°-150°	2230.2	31.9
90°-180°	3020.0	43.3
0°-180°	6981.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1590	1590	1590	1590	1590	
5°	1888	1590	1400	1590	1888	195
15°	2683	1518	1119	1518	2683	761
25°	2764	1379	911	1379	2764	1188
35°	1199	1202	742	1202	1199	786
45°	640	966	584	966	640	503
55°	402	679	399	679	402	363
65°	231	419	250	419	231	228
75°	98	204	128	204	98	105
85°	23	47	45	47	23	27
90°	22	1	22	1	22	11
95°	28	45	28	45	28	23
105°	32	219	32	219	32	74
115°	433	411	433	411	433	400
125°	592	580	592	580	592	528
135°	729	722	729	722	729	562
145°	841	833	841	833	841	525
155°	916	918	916	918	916	422
165°	965	968	965	968	965	273
175°	987	990	987	990	987	94
180°	990	990	990	990	990	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7
2.5°	1693.2	1695.3	1688.3	1687.2	1679.0	1676.8	1676.8	1665.4	1658.3	1649.1	1643.6
5°	1887.8	1898.7	1893.2	1881.0	1860.6	1855.8	1842.9	1822.5	1799.3	1770.7	1757.1
7.5°	2130.9	2145.7	2140.0	2121.1	2099.7	2082.4	2046.0	2012.1	1964.6	1922.9	1887.3
10°	2330.1	2314.5	2302.2	2283.9	2264.1	2232.1	2194.0	2141.6	2081.1	2033.4	1980.4
12.5°	2479.3	2476.7	2461.2	2442.3	2414.4	2384.0	2337.2	2273.4	2203.0	2134.2	2073.4
15°	2682.7	2686.7	2676.5	2656.8	2617.3	2563.6	2492.8	2466.3	2365.5	2290.7	2215.8
17.5°	2823.4	2822.6	2821.2	2793.9	2753.6	2715.3	2649.7	2579.9	2488.7	2383.2	2282.4
20°	2912.7	2905.9	2907.2	2876.6	2846.7	2802.4	2738.5	2637.1	2562.2	2440.4	2336.3
22.5°	2910.5	2909.1	2914.3	2903.8	2882.1	2848.2	2797.8	2712.2	2616.6	2493.7	2376.6
25°	2764.3	2758.9	2790.9	2799.7	2834.4	2840.5	2825.6	2778.6	2688.1	2561.5	2416.6
27.5°	2313.5	2310.5	2369.9	2444.2	2538.4	2611.6	2682.4	2716.6	2688.1	2597.5	2452.2
30°	1898.7	1962.7	1992.6	2100.1	2219.9	2362.8	2488.0	2607.1	2636.4	2596.9	2477.8
32.5°	1576.4	1632.2	1657.2	1749.5	1861.1	2028.5	2216.4	2385.0	2504.1	2534.3	2462.6
35°	1199.1	1199.8	1256.9	1297.8	1401.2	1573.4	1755.8	1981.7	2206.3	2376.4	2394.1
37.5°	956.8	960.2	994.8	1035.5	1113.1	1204.1	1364.7	1552.6	1812.0	2073.2	2226.3
40°	826.2	832.3	858.2	898.3	954.1	1022.8	1148.1	1325.0	1541.4	1832.0	2069.5
42.5°	742.3	752.3	765.6	796.5	831.1	895.4	996.7	1133.4	1330.2	1605.0	1879.0
45°	639.7	645.1	655.4	669.6	700.9	745.9	813.9	905.8	1069.1	1290.3	1564.5
47.5°	564.3	561.4	572.2	583.8	604.6	635.2	680.8	755.8	872.3	1049.8	1282.4
50°	513.1	512.4	519.9	528.8	548.5	571.0	608.4	664.9	757.4	904.4	1117.4
52.5°	465.2	467.8	473.1	484.1	498.4	516.5	550.1	590.8	670.3	797.2	974.8
55°	401.5	403.6	411.0	417.2	427.4	445.7	466.8	500.9	555.3	643.8	790.1
57.5°	347.6	346.7	353.9	355.4	366.9	381.9	398.2	424.7	464.1	529.9	628.4
60°	311.7	309.6	315.8	320.5	326.7	338.9	352.5	378.4	409.7	458.0	542.4
62.5°	279.0	278.1	282.6	287.3	292.4	303.5	315.0	334.8	359.6	400.3	467.3
65°	231.4	233.4	235.5	237.5	240.2	247.0	257.9	271.5	288.5	317.1	365.4
67.5°	181.8	183.9	184.6	188.8	194.6	198.9	205.5	217.6	229.5	253.6	281.1
70°	147.0	146.3	147.0	149.0	156.5	164.0	172.9	181.7	189.2	206.2	229.3
72.5°	126.3	125.1	126.9	127.3	130.9	133.0	138.6	146.9	156.5	168.1	184.7
75°	98.0	98.0	98.0	98.0	100.7	102.1	104.1	106.2	109.6	115.0	127.3
77.5°	72.4	72.5	73.5	74.2	74.7	75.5	76.8	78.8	80.0	82.9	88.2
80°	57.2	57.8	57.2	57.8	57.8	59.2	59.9	61.9	62.6	66.0	68.1
82.5°	43.0	42.6	43.0	43.7	43.7	45.1	45.2	46.7	46.8	48.6	50.6
85°	23.1	21.8	23.1	22.5	23.8	22.5	23.1	24.5	24.5	25.2	27.9
87.5°	9.9	10.9	9.7	10.2	10.1	10.6	10.5	10.3	11.3	10.6	10.7
90°	22.1	21.7	21.4	21.1	20.8	20.3	19.6	19.0	18.3	17.7	15.5
92.5°	24.4	24.2	24.0	23.8	23.6	23.0	22.0	20.9	19.9	18.8	17.2
95°	28.0	28.0	28.0	28.0	28.0	27.4	26.2	25.1	24.0	22.8	21.0
97.5°	30.3	30.2	30.0	29.8	29.7	28.9	27.6	26.3	25.0	23.7	35.5
100°	30.9	30.7	30.6	30.4	30.3	29.5	28.2	26.9	25.6	24.3	49.8
102.5°	31.5	31.2	30.9	30.6	30.3	32.2	36.3	40.3	44.4	48.4	76.3
105°	32.4	32.1	31.7	31.4	31.1	45.4	74.3	103.3	132.2	161.2	175.9
107.5°	101.7	123.5	145.3	167.1	189.0	210.5	231.7	252.9	274.1	295.4	293.1
110°	202.4	225.7	249.1	272.5	295.9	310.3	315.7	321.1	326.5	331.9	330.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	347.2	352.1	357.1	362.0	366.9	369.4	369.3	369.2	369.1	369.0	367.2
115°	432.7	432.0	431.4	430.7	430.1	428.9	427.3	425.7	424.0	422.4	420.9
117.5°	480.7	480.5	480.4	480.3	480.1	479.4	478.1	476.8	475.5	474.2	473.4
120°	513.6	513.6	513.6	513.6	513.6	513.0	511.7	510.4	509.1	507.7	507.3
122.5°	546.0	545.9	545.7	545.6	545.5	545.0	544.0	543.1	542.2	541.3	540.7
125°	591.6	591.3	591.0	590.7	590.3	590.0	589.7	589.3	589.0	588.7	588.0
127.5°	635.5	635.8	636.1	636.5	636.8	636.7	636.2	635.7	635.1	634.6	633.8
130°	663.7	664.1	664.4	664.7	665.1	664.9	664.2	663.6	662.9	662.3	661.6
132.5°	689.6	690.1	690.6	691.0	691.5	691.4	690.7	690.1	689.4	688.8	688.2
135°	729.2	729.7	730.2	730.7	731.2	731.2	730.7	730.2	729.7	729.2	728.6
137.5°	766.5	766.8	767.1	767.5	767.8	767.6	766.8	766.0	765.2	764.4	764.1
140°	788.8	789.2	789.5	789.8	790.2	790.0	789.3	788.7	788.0	787.4	786.9
142.5°	809.4	809.9	810.4	810.8	811.3	811.2	810.7	810.2	809.7	809.2	808.7
145°	841.1	841.1	841.1	841.1	841.1	840.9	840.6	840.3	839.9	839.6	839.3
147.5°	864.6	865.4	866.1	866.9	867.6	867.9	867.5	867.2	866.9	866.5	866.2
150°	882.3	882.8	883.3	883.8	884.3	884.3	884.0	883.7	883.4	883.0	882.7
152.5°	896.4	897.2	897.9	898.7	899.4	899.5	898.9	898.3	897.7	897.2	897.0
155°	916.1	917.1	918.1	919.1	920.1	920.2	919.3	918.5	917.7	916.9	916.7
157.5°	932.8	934.1	935.3	936.6	937.9	938.0	937.0	936.1	935.1	934.1	934.3
160°	943.4	944.5	945.7	946.8	948.0	948.0	947.1	946.1	945.1	944.1	944.3
162.5°	953.4	954.4	955.4	956.4	957.4	957.4	956.3	955.2	954.1	952.9	953.1
165°	965.4	966.6	967.7	968.9	970.0	969.9	968.6	967.3	966.0	964.7	964.9
167.5°	974.1	975.4	976.7	978.1	979.4	979.4	978.1	976.7	975.4	974.1	974.1
170°	979.4	980.7	982.0	983.4	984.7	984.7	983.4	982.0	980.7	979.4	979.4
172.5°	982.4	983.8	985.3	986.7	988.1	988.2	986.9	985.6	984.3	983.0	982.8
175°	986.8	988.1	989.4	990.7	992.0	992.1	991.0	989.8	988.7	987.5	987.4
177.5°	988.1	989.4	990.7	992.0	993.3	993.5	992.4	991.4	990.3	989.3	989.2
180°	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7
2.5°	1641.4	1639.8	1632.2	1623.5	1612.0	1604.4	1598.4	1595.2	1585.4	1573.4	1565.2
5°	1742.8	1722.4	1700.7	1674.1	1649.6	1624.4	1608.8	1590.4	1567.9	1542.8	1525.1
7.5°	1851.5	1811.4	1768.3	1723.8	1679.8	1640.4	1605.5	1575.7	1539.9	1503.8	1478.5
10°	1934.8	1876.2	1815.7	1753.7	1697.2	1644.2	1603.3	1563.2	1520.3	1478.8	1447.5
12.5°	2010.4	1933.4	1863.6	1787.5	1715.2	1651.8	1593.0	1545.8	1494.2	1449.9	1414.3
15°	2106.2	2027.3	1942.9	1827.2	1731.3	1651.0	1579.5	1517.6	1455.0	1400.5	1365.8
17.5°	2195.8	2077.0	1963.6	1867.1	1742.4	1642.1	1554.9	1480.8	1412.1	1354.4	1311.7
20°	2232.8	2117.8	1994.6	1871.5	1749.0	1636.7	1535.3	1453.6	1382.2	1316.8	1277.4
22.5°	2255.1	2124.9	1995.2	1862.8	1732.6	1616.0	1515.7	1425.9	1348.4	1286.3	1237.6
25°	2281.1	2126.0	1983.1	1852.4	1719.7	1593.1	1474.0	1378.8	1295.1	1229.0	1177.3
27.5°	2298.3	2115.8	1946.9	1801.6	1667.0	1541.0	1431.8	1330.8	1245.9	1176.1	1120.6
30°	2301.6	2107.6	1919.1	1761.9	1625.1	1509.4	1393.7	1297.1	1207.3	1133.1	1081.4
32.5°	2305.9	2087.5	1881.5	1714.5	1574.5	1459.9	1355.1	1262.8	1170.8	1097.7	1044.9
35°	2288.0	2076.3	1824.5	1632.6	1492.4	1381.5	1286.9	1201.8	1111.3	1040.5	986.8
37.5°	2210.6	2032.1	1765.4	1540.3	1393.7	1291.0	1213.9	1139.8	1056.7	980.4	929.7
40°	2132.8	1988.5	1719.7	1484.2	1331.1	1225.6	1156.2	1095.7	1015.4	943.9	889.5
42.5°	2016.8	1929.2	1676.2	1425.4	1260.3	1158.7	1100.1	1043.4	972.9	900.3	849.2
45°	1804.1	1815.7	1587.0	1331.8	1162.3	1060.3	1005.1	965.7	903.1	843.2	790.8
47.5°	1537.3	1645.5	1482.3	1232.0	1059.0	963.2	915.0	880.6	838.4	779.6	731.8
50°	1363.1	1517.6	1398.5	1165.1	994.3	899.0	851.3	823.4	786.7	740.4	694.8
52.5°	1202.5	1368.4	1297.2	1090.5	924.0	836.9	790.4	767.4	738.2	694.7	653.4
55°	980.6	1148.7	1132.4	977.9	818.7	740.4	705.0	679.2	659.4	626.8	594.1
57.5°	793.2	952.6	961.0	852.7	725.9	648.5	618.1	598.6	585.7	561.0	530.8
60°	675.1	821.4	850.0	768.3	659.4	591.4	561.4	545.8	535.6	515.8	492.7
62.5°	577.1	701.6	734.0	675.2	595.7	532.0	508.6	493.5	486.6	469.6	449.2
65°	441.7	545.1	576.4	543.7	502.2	451.2	432.1	419.2	413.1	403.6	388.6
67.5°	332.1	407.5	441.8	418.8	403.8	371.6	359.5	352.5	347.1	340.5	328.0
70°	266.8	322.6	358.0	351.8	339.6	322.6	313.7	309.0	303.5	298.1	287.2
72.5°	214.5	252.9	286.1	289.2	279.2	275.8	268.0	266.0	262.7	256.2	250.2
75°	142.2	168.8	191.9	200.8	204.8	208.2	204.8	204.2	203.5	198.0	194.6
77.5°	93.2	107.5	122.1	137.2	143.6	148.2	149.3	151.8	150.0	147.1	145.5
80°	71.5	74.9	85.1	98.0	108.2	112.3	115.0	116.4	115.7	115.0	112.3
82.5°	51.9	54.7	59.5	68.6	77.2	84.0	85.6	85.3	86.8	87.2	85.1
85°	27.9	28.6	29.9	31.3	36.1	43.6	45.6	47.0	48.3	48.3	44.2
87.5°	11.4	10.4	11.1	10.7	12.0	12.2	15.2	17.6	18.4	16.6	16.9
90°	13.4	11.3	9.2	7.3	5.6	4.0	2.4	0.7	2.4	4.0	5.6
92.5°	15.6	14.0	12.4	11.9	12.3	12.8	13.2	13.7	13.2	12.8	12.3
95°	19.2	17.4	15.6	18.1	24.8	31.5	38.2	44.9	38.2	31.5	24.8
97.5°	47.2	59.0	70.8	78.2	81.2	84.2	87.2	90.2	87.2	84.2	81.2
100°	75.3	100.8	126.3	137.4	134.2	130.9	127.6	124.4	127.6	130.9	134.2
102.5°	104.1	132.0	159.9	172.6	170.3	167.9	165.6	163.2	165.6	167.9	170.3
105°	190.6	205.3	220.0	226.5	224.7	222.9	221.1	219.3	221.1	222.9	224.7
107.5°	290.7	288.4	286.1	284.2	282.8	281.3	279.9	278.4	279.9	281.3	282.8
110°	328.3	326.5	324.7	323.1	321.8	320.5	319.2	317.9	319.2	320.5	321.8





TEST NUMBER: P332454

CATALOG NUMBER: S123RDIW-S1000D755U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	365.4	363.6	361.8	360.3	359.1	357.9	356.7	355.6	356.7	357.9	359.1
115°	419.4	418.0	416.5	415.3	414.3	413.3	412.3	411.3	412.3	413.3	414.3
117.5°	472.7	471.9	471.2	470.2	469.0	467.8	466.6	465.4	466.6	467.8	469.0
120°	506.8	506.3	505.8	504.8	503.3	501.9	500.4	498.9	500.4	501.9	503.3
122.5°	540.1	539.4	538.8	537.9	536.7	535.5	534.3	533.1	534.3	535.5	536.7
125°	587.4	586.7	586.1	585.1	583.8	582.5	581.2	579.9	581.2	582.5	583.8
127.5°	633.0	632.3	631.5	630.4	629.1	627.8	626.5	625.2	626.5	627.8	629.1
130°	661.0	660.3	659.7	658.7	657.4	656.1	654.8	653.4	654.8	656.1	657.4
132.5°	687.7	687.2	686.7	685.8	684.4	683.1	681.8	680.5	681.8	683.1	684.4
135°	727.9	727.3	726.6	725.8	724.8	723.8	722.9	721.9	722.9	723.8	724.8
137.5°	763.7	763.3	763.0	762.2	760.9	759.7	758.4	757.2	758.4	759.7	760.9
140°	786.4	785.9	785.4	784.7	783.7	782.7	781.7	780.7	781.7	782.7	783.7
142.5°	808.2	807.7	807.2	806.5	805.5	804.5	803.5	802.5	803.5	804.5	805.5
145°	839.0	838.6	838.3	837.6	836.4	835.3	834.1	833.0	834.1	835.3	836.4
147.5°	865.9	865.6	865.2	864.7	863.9	863.2	862.4	861.7	862.4	863.2	863.9
150°	882.4	882.1	881.7	881.3	880.8	880.3	879.8	879.4	879.8	880.3	880.8
152.5°	896.8	896.6	896.4	896.2	895.9	895.7	895.5	895.2	895.5	895.7	895.9
155°	916.6	916.4	916.2	916.3	916.6	917.0	917.3	917.6	917.3	917.0	916.6
157.5°	934.4	934.6	934.8	934.9	934.9	934.9	935.0	935.0	935.0	934.9	934.9
160°	944.4	944.6	944.8	944.9	945.1	945.3	945.4	945.6	945.4	945.3	945.1
162.5°	953.3	953.4	953.6	953.9	954.3	954.7	955.2	955.6	955.2	954.7	954.3
165°	965.0	965.2	965.4	965.7	966.2	966.7	967.2	967.7	967.2	966.7	966.2
167.5°	974.1	974.1	974.1	974.5	975.1	975.8	976.4	977.1	976.4	975.8	975.1
170°	979.4	979.4	979.4	979.8	980.4	981.1	981.7	982.4	981.7	981.1	980.4
172.5°	982.7	982.6	982.4	982.8	983.6	984.3	985.1	985.9	985.1	984.3	983.6
175°	987.2	987.0	986.9	987.2	988.0	988.8	989.6	990.5	989.6	988.8	988.0
177.5°	989.0	988.9	988.8	989.0	989.7	990.3	991.0	991.6	991.0	990.3	989.7
180°	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5



TEST NUMBER: P332454

CATALOG NUMBER: S123RDIW-S1000D755U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7
2.5°	1562.5	1555.4	1550.5	1539.6	1532.6	1524.9	1517.3	1522.2	1521.7	1521.1	1521.1
5°	1510.1	1494.4	1480.2	1461.8	1450.2	1435.9	1425.0	1423.7	1426.4	1416.9	1411.4
7.5°	1458.1	1436.7	1416.5	1396.2	1374.7	1357.5	1346.8	1341.7	1334.8	1328.9	1322.8
10°	1421.6	1396.5	1376.7	1351.5	1328.4	1308.0	1295.1	1286.2	1281.4	1276.7	1267.8
12.5°	1384.1	1359.4	1334.3	1305.8	1283.8	1260.1	1250.4	1240.5	1231.4	1226.0	1213.9
15°	1329.1	1297.1	1270.6	1240.6	1216.1	1193.0	1179.4	1159.6	1156.9	1150.1	1137.9
17.5°	1274.0	1239.2	1202.6	1180.5	1152.8	1128.7	1108.0	1101.4	1081.9	1074.6	1063.9
20°	1230.4	1198.4	1170.5	1141.3	1101.1	1078.6	1062.3	1053.5	1037.8	1028.3	1021.5
22.5°	1192.8	1160.3	1128.1	1093.9	1060.8	1035.6	1023.7	1009.9	1001.3	988.0	980.6
25°	1139.2	1103.8	1065.0	1028.3	1004.5	985.4	966.4	954.1	941.9	935.7	922.1
27.5°	1076.9	1039.9	1003.6	975.7	946.5	927.7	910.4	899.5	884.8	874.5	867.0
30°	1042.6	999.0	967.7	942.5	905.1	887.4	874.5	860.9	850.0	839.1	831.6
32.5°	1002.8	963.1	933.4	902.3	873.5	854.2	837.5	825.5	816.2	805.9	798.4
35°	940.5	907.2	876.5	845.2	824.1	804.4	784.7	774.4	765.6	756.1	749.3
37.5°	884.1	853.0	823.9	794.2	768.0	752.0	736.1	728.3	716.3	709.9	703.0
40°	849.3	818.7	787.4	758.8	731.6	719.3	705.0	693.5	682.6	677.8	670.3
42.5°	811.2	780.6	754.2	723.4	701.1	684.5	671.3	658.6	650.5	643.5	639.3
45°	754.7	727.5	701.6	671.0	649.9	635.6	620.6	609.1	601.6	596.8	589.3
47.5°	699.9	672.6	646.4	619.7	599.3	582.9	568.0	559.9	550.0	544.2	539.1
50°	660.1	635.6	607.7	583.2	562.8	546.5	534.2	524.0	515.2	507.7	504.3
52.5°	623.6	597.5	573.4	550.6	529.0	510.5	499.4	488.6	482.0	473.4	469.4
55°	563.5	538.3	517.9	495.4	474.3	458.7	445.1	435.5	428.7	419.2	413.8
57.5°	507.0	484.4	460.0	440.6	418.8	405.6	394.3	381.4	373.1	365.6	360.3
60°	468.9	443.0	421.9	403.6	384.5	367.5	357.3	347.1	338.2	330.7	326.0
62.5°	429.1	406.6	386.5	366.5	349.1	334.3	322.4	313.9	306.1	301.3	296.6
65°	368.2	350.5	330.1	313.7	297.4	286.5	277.0	269.5	264.0	260.6	256.6
67.5°	312.1	294.9	277.1	261.1	250.2	241.9	235.6	229.2	226.5	222.1	219.4
70°	275.6	257.9	242.3	230.0	219.1	213.0	208.9	204.2	201.4	196.0	193.3
72.5°	235.9	223.1	211.8	201.7	193.0	187.4	182.2	176.4	172.0	166.0	163.3
75°	185.8	174.2	165.4	158.6	153.1	145.6	138.1	132.0	130.0	127.9	127.3
77.5°	137.6	130.3	123.9	118.1	111.3	105.9	104.3	102.9	102.5	101.4	101.4
80°	108.2	101.4	96.6	89.8	85.7	85.7	85.7	84.4	85.1	85.1	85.1
82.5°	80.4	74.2	71.6	69.1	68.3	68.9	68.9	69.1	68.7	69.8	69.3
85°	41.5	42.2	43.6	42.9	43.6	43.6	44.9	44.2	44.9	43.6	44.9
87.5°	16.7	18.7	19.7	20.6	21.6	21.5	22.2	22.3	23.0	23.1	23.2
90°	7.3	9.2	11.3	13.4	15.5	17.7	18.3	19.0	19.6	20.3	20.8
92.5°	11.9	12.4	14.0	15.6	17.2	18.8	19.9	20.9	22.0	23.0	23.6
95°	18.1	15.6	17.4	19.2	21.0	22.8	24.0	25.1	26.2	27.4	28.0
97.5°	78.2	70.8	59.0	47.2	35.5	23.7	25.0	26.3	27.6	28.9	29.7
100°	137.4	126.3	100.8	75.3	49.8	24.3	25.6	26.9	28.2	29.5	30.3
102.5°	172.6	159.9	132.0	104.1	76.3	48.4	44.4	40.3	36.3	32.2	30.3
105°	226.5	220.0	205.3	190.6	175.9	161.2	132.2	103.3	74.3	45.4	31.1
107.5°	284.2	286.1	288.4	290.7	293.1	295.4	274.1	252.9	231.7	210.5	189.0
110°	323.1	324.7	326.5	328.3	330.1	331.9	326.5	321.1	315.7	310.3	295.9



TEST NUMBER: P332454

CATALOG NUMBER: S123RDIW-S1000D755U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	360.3	361.8	363.6	365.4	367.2	369.0	369.1	369.2	369.3	369.4	366.9
115°	415.3	416.5	418.0	419.4	420.9	422.4	424.0	425.7	427.3	428.9	430.1
117.5°	470.2	471.2	471.9	472.7	473.4	474.2	475.5	476.8	478.1	479.4	480.1
120°	504.8	505.8	506.3	506.8	507.3	507.7	509.1	510.4	511.7	513.0	513.6
122.5°	537.9	538.8	539.4	540.1	540.7	541.3	542.2	543.1	544.0	545.0	545.5
125°	585.1	586.1	586.7	587.4	588.0	588.7	589.0	589.3	589.7	590.0	590.3
127.5°	630.4	631.5	632.3	633.0	633.8	634.6	635.1	635.7	636.2	636.7	636.8
130°	658.7	659.7	660.3	661.0	661.6	662.3	662.9	663.6	664.2	664.9	665.1
132.5°	685.8	686.7	687.2	687.7	688.2	688.8	689.4	690.1	690.7	691.4	691.5
135°	725.8	726.6	727.3	727.9	728.6	729.2	729.7	730.2	730.7	731.2	731.2
137.5°	762.2	763.0	763.3	763.7	764.1	764.4	765.2	766.0	766.8	767.6	767.8
140°	784.7	785.4	785.9	786.4	786.9	787.4	788.0	788.7	789.3	790.0	790.2
142.5°	806.5	807.2	807.7	808.2	808.7	809.2	809.7	810.2	810.7	811.2	811.3
145°	837.6	838.3	838.6	839.0	839.3	839.6	839.9	840.3	840.6	840.9	841.1
147.5°	864.7	865.2	865.6	865.9	866.2	866.5	866.9	867.2	867.5	867.9	867.6
150°	881.3	881.7	882.1	882.4	882.7	883.0	883.4	883.7	884.0	884.3	884.3
152.5°	896.2	896.4	896.6	896.8	897.0	897.2	897.7	898.3	898.9	899.5	899.4
155°	916.3	916.2	916.4	916.6	916.7	916.9	917.7	918.5	919.3	920.2	920.1
157.5°	934.9	934.8	934.6	934.4	934.3	934.1	935.1	936.1	937.0	938.0	937.9
160°	944.9	944.8	944.6	944.4	944.3	944.1	945.1	946.1	947.1	948.0	948.0
162.5°	953.9	953.6	953.4	953.3	953.1	952.9	954.1	955.2	956.3	957.4	957.4
165°	965.7	965.4	965.2	965.0	964.9	964.7	966.0	967.3	968.6	969.9	970.0
167.5°	974.5	974.1	974.1	974.1	974.1	974.1	975.4	976.7	978.1	979.4	979.4
170°	979.8	979.4	979.4	979.4	979.4	979.4	980.7	982.0	983.4	984.7	984.7
172.5°	982.8	982.4	982.6	982.7	982.8	983.0	984.3	985.6	986.9	988.2	988.1
175°	987.2	986.9	987.0	987.2	987.4	987.5	988.7	989.8	991.0	992.1	992.0
177.5°	989.0	988.8	988.9	989.0	989.2	989.3	990.3	991.4	992.4	993.5	993.3
180°	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5



TEST NUMBER: P332454

CATALOG NUMBER: S123RDIW-S1000D755U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7
2.5°	1514.6	1514.0	1514.6	1512.4	1514.6	1514.0	1514.6	1521.1	1521.1	1521.7	1522.2
5°	1409.4	1408.7	1406.7	1400.5	1406.7	1408.7	1409.4	1411.4	1416.9	1426.4	1423.7
7.5°	1317.5	1316.6	1310.6	1310.7	1310.6	1316.6	1317.5	1322.8	1328.9	1334.8	1341.7
10°	1263.1	1263.7	1255.6	1250.8	1255.6	1263.7	1263.1	1267.8	1276.7	1281.4	1286.2
12.5°	1210.3	1207.1	1200.6	1195.3	1200.6	1207.1	1210.3	1213.9	1226.0	1231.4	1240.5
15°	1140.6	1133.8	1117.4	1118.8	1117.4	1133.8	1140.6	1137.9	1150.1	1156.9	1159.6
17.5°	1058.5	1053.5	1053.2	1043.7	1053.2	1053.5	1058.5	1063.9	1074.6	1081.9	1101.4
20°	1010.6	1007.2	1008.5	999.0	1008.5	1007.2	1010.6	1021.5	1028.3	1037.8	1053.5
22.5°	973.0	969.6	963.9	960.9	963.9	969.6	973.0	980.6	988.0	1001.3	1009.9
25°	918.0	912.6	907.2	910.6	907.2	912.6	918.0	922.1	935.7	941.9	954.1
27.5°	863.1	859.0	853.5	852.8	853.5	859.0	863.1	867.0	874.5	884.8	899.5
30°	828.2	824.1	821.4	818.0	821.4	824.1	828.2	831.6	839.1	850.0	860.9
32.5°	792.8	792.0	787.1	786.4	787.1	792.0	792.8	798.4	805.9	816.2	825.5
35°	746.5	742.5	741.1	741.8	741.1	742.5	746.5	749.3	756.1	765.6	774.4
37.5°	702.6	697.1	694.7	692.2	694.7	697.1	702.6	703.0	709.9	716.3	728.3
40°	671.0	665.6	664.2	662.8	664.2	665.6	671.0	670.3	677.8	682.6	693.5
42.5°	635.6	633.4	632.6	630.2	632.6	633.4	635.6	639.3	643.5	650.5	658.6
45°	587.3	586.6	582.5	583.9	582.5	586.6	587.3	589.3	596.8	601.6	609.1
47.5°	536.4	533.4	530.5	532.4	530.5	533.4	536.4	539.1	544.2	550.0	559.9
50°	501.6	500.2	494.1	495.4	494.1	500.2	501.6	504.3	507.7	515.2	524.0
52.5°	466.7	461.5	459.2	458.4	459.2	461.5	466.7	469.4	473.4	482.0	488.6
55°	409.0	402.9	400.2	398.8	400.2	402.9	409.0	413.8	419.2	428.7	435.5
57.5°	352.4	350.7	348.6	350.1	348.6	350.7	352.4	360.3	365.6	373.1	381.4
60°	319.2	319.2	319.2	318.5	319.2	319.2	319.2	326.0	330.7	338.2	347.1
62.5°	293.6	291.9	291.4	292.4	291.4	291.9	293.6	296.6	301.3	306.1	313.9
65°	254.5	253.8	251.1	250.4	251.1	253.8	254.5	256.6	260.6	264.0	269.5
67.5°	217.6	215.2	214.4	213.4	214.4	215.2	217.6	219.4	222.1	226.5	229.2
70°	189.9	188.5	184.4	185.1	184.4	188.5	189.9	193.3	196.0	201.4	204.2
72.5°	159.9	158.6	157.7	156.8	157.7	158.6	159.9	163.3	166.0	172.0	176.4
75°	126.6	125.9	125.2	127.9	125.2	125.9	126.6	127.3	127.9	130.0	132.0
77.5°	101.4	101.4	101.8	100.7	101.8	101.4	101.4	101.4	101.4	102.5	102.9
80°	85.1	85.1	84.4	84.4	84.4	85.1	85.1	85.1	85.1	85.1	84.4
82.5°	68.2	68.7	69.1	68.1	69.1	68.7	68.2	69.3	69.8	68.7	69.1
85°	44.9	44.2	45.6	44.9	45.6	44.2	44.9	44.9	43.6	44.9	44.2
87.5°	24.4	23.3	23.4	24.0	23.4	23.3	24.4	23.2	23.1	23.0	22.3
90°	21.1	21.4	21.7	22.1	21.7	21.4	21.1	20.8	20.3	19.6	19.0
92.5°	23.8	24.0	24.2	24.4	24.2	24.0	23.8	23.6	23.0	22.0	20.9
95°	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	27.4	26.2	25.1
97.5°	29.8	30.0	30.2	30.3	30.2	30.0	29.8	29.7	28.9	27.6	26.3
100°	30.4	30.6	30.7	30.9	30.7	30.6	30.4	30.3	29.5	28.2	26.9
102.5°	30.6	30.9	31.2	31.5	31.2	30.9	30.6	30.3	32.2	36.3	40.3
105°	31.4	31.7	32.1	32.4	32.1	31.7	31.4	31.1	45.4	74.3	103.3
107.5°	167.1	145.3	123.5	101.7	123.5	145.3	167.1	189.0	210.5	231.7	252.9
110°	272.5	249.1	225.7	202.4	225.7	249.1	272.5	295.9	310.3	315.7	321.1



TEST NUMBER: P332454

CATALOG NUMBER: S123RDIW-S1000D755U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	362.0	357.1	352.1	347.2	352.1	357.1	362.0	366.9	369.4	369.3	369.2
115°	430.7	431.4	432.0	432.7	432.0	431.4	430.7	430.1	428.9	427.3	425.7
117.5°	480.3	480.4	480.5	480.7	480.5	480.4	480.3	480.1	479.4	478.1	476.8
120°	513.6	513.6	513.6	513.6	513.6	513.6	513.6	513.6	513.0	511.7	510.4
122.5°	545.6	545.7	545.9	546.0	545.9	545.7	545.6	545.5	545.0	544.0	543.1
125°	590.7	591.0	591.3	591.6	591.3	591.0	590.7	590.3	590.0	589.7	589.3
127.5°	636.5	636.1	635.8	635.5	635.8	636.1	636.5	636.8	636.7	636.2	635.7
130°	664.7	664.4	664.1	663.7	664.1	664.4	664.7	665.1	664.9	664.2	663.6
132.5°	691.0	690.6	690.1	689.6	690.1	690.6	691.0	691.5	691.4	690.7	690.1
135°	730.7	730.2	729.7	729.2	729.7	730.2	730.7	731.2	731.2	730.7	730.2
137.5°	767.5	767.1	766.8	766.5	766.8	767.1	767.5	767.8	767.6	766.8	766.0
140°	789.8	789.5	789.2	788.8	789.2	789.5	789.8	790.2	790.0	789.3	788.7
142.5°	810.8	810.4	809.9	809.4	809.9	810.4	810.8	811.3	811.2	810.7	810.2
145°	841.1	841.1	841.1	841.1	841.1	841.1	841.1	841.1	840.9	840.6	840.3
147.5°	866.9	866.1	865.4	864.6	865.4	866.1	866.9	867.6	867.9	867.5	867.2
150°	883.8	883.3	882.8	882.3	882.8	883.3	883.8	884.3	884.3	884.0	883.7
152.5°	898.7	897.9	897.2	896.4	897.2	897.9	898.7	899.4	899.5	898.9	898.3
155°	919.1	918.1	917.1	916.1	917.1	918.1	919.1	920.1	920.2	919.3	918.5
157.5°	936.6	935.3	934.1	932.8	934.1	935.3	936.6	937.9	938.0	937.0	936.1
160°	946.8	945.7	944.5	943.4	944.5	945.7	946.8	948.0	948.0	947.1	946.1
162.5°	956.4	955.4	954.4	953.4	954.4	955.4	956.4	957.4	957.4	956.3	955.2
165°	968.9	967.7	966.6	965.4	966.6	967.7	968.9	970.0	969.9	968.6	967.3
167.5°	978.1	976.7	975.4	974.1	975.4	976.7	978.1	979.4	979.4	978.1	976.7
170°	983.4	982.0	980.7	979.4	980.7	982.0	983.4	984.7	984.7	983.4	982.0
172.5°	986.7	985.3	983.8	982.4	983.8	985.3	986.7	988.1	988.2	986.9	985.6
175°	990.7	989.4	988.1	986.8	988.1	989.4	990.7	992.0	992.1	991.0	989.8
177.5°	992.0	990.7	989.4	988.1	989.4	990.7	992.0	993.3	993.5	992.4	991.4
180°	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5



TEST NUMBER: P332454

CATALOG NUMBER: S123RDIW-S1000D755U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7
2.5°	1517.3	1524.9	1532.6	1539.6	1550.5	1555.4	1562.5	1565.2	1573.4	1585.4	1595.2
5°	1425.0	1435.9	1450.2	1461.8	1480.2	1494.4	1510.1	1525.1	1542.8	1567.9	1590.4
7.5°	1346.8	1357.5	1374.7	1396.2	1416.5	1436.7	1458.1	1478.5	1503.8	1539.9	1575.7
10°	1295.1	1308.0	1328.4	1351.5	1376.7	1396.5	1421.6	1447.5	1478.8	1520.3	1563.2
12.5°	1250.4	1260.1	1283.8	1305.8	1334.3	1359.4	1384.1	1414.3	1449.9	1494.2	1545.8
15°	1179.4	1193.0	1216.1	1240.6	1270.6	1297.1	1329.1	1365.8	1400.5	1455.0	1517.6
17.5°	1108.0	1128.7	1152.8	1180.5	1202.6	1239.2	1274.0	1311.7	1354.4	1412.1	1480.8
20°	1062.3	1078.6	1101.1	1141.3	1170.5	1198.4	1230.4	1277.4	1316.8	1382.2	1453.6
22.5°	1023.7	1035.6	1060.8	1093.9	1128.1	1160.3	1192.8	1237.6	1286.3	1348.4	1425.9
25°	966.4	985.4	1004.5	1028.3	1065.0	1103.8	1139.2	1177.3	1229.0	1295.1	1378.8
27.5°	910.4	927.7	946.5	975.7	1003.6	1039.9	1076.9	1120.6	1176.1	1245.9	1330.8
30°	874.5	887.4	905.1	942.5	967.7	999.0	1042.6	1081.4	1133.1	1207.3	1297.1
32.5°	837.5	854.2	873.5	902.3	933.4	963.1	1002.8	1044.9	1097.7	1170.8	1262.8
35°	784.7	804.4	824.1	845.2	876.5	907.2	940.5	986.8	1040.5	1111.3	1201.8
37.5°	736.1	752.0	768.0	794.2	823.9	853.0	884.1	929.7	980.4	1056.7	1139.8
40°	705.0	719.3	731.6	758.8	787.4	818.7	849.3	889.5	943.9	1015.4	1095.7
42.5°	671.3	684.5	701.1	723.4	754.2	780.6	811.2	849.2	900.3	972.9	1043.4
45°	620.6	635.6	649.9	671.0	701.6	727.5	754.7	790.8	843.2	903.1	965.7
47.5°	568.0	582.9	599.3	619.7	646.4	672.6	699.9	731.8	779.6	838.4	880.6
50°	534.2	546.5	562.8	583.2	607.7	635.6	660.1	694.8	740.4	786.7	823.4
52.5°	499.4	510.5	529.0	550.6	573.4	597.5	623.6	653.4	694.7	738.2	767.4
55°	445.1	458.7	474.3	495.4	517.9	538.3	563.5	594.1	626.8	659.4	679.2
57.5°	394.3	405.6	418.8	440.6	460.0	484.4	507.0	530.8	561.0	585.7	598.6
60°	357.3	367.5	384.5	403.6	421.9	443.0	468.9	492.7	515.8	535.6	545.8
62.5°	322.4	334.3	349.1	366.5	386.5	406.6	429.1	449.2	469.6	486.6	493.5
65°	277.0	286.5	297.4	313.7	330.1	350.5	368.2	388.6	403.6	413.1	419.2
67.5°	235.6	241.9	250.2	261.1	277.1	294.9	312.1	328.0	340.5	347.1	352.5
70°	208.9	213.0	219.1	230.0	242.3	257.9	275.6	287.2	298.1	303.5	309.0
72.5°	182.2	187.4	193.0	201.7	211.8	223.1	235.9	250.2	256.2	262.7	266.0
75°	138.1	145.6	153.1	158.6	165.4	174.2	185.8	194.6	198.0	203.5	204.2
77.5°	104.3	105.9	111.3	118.1	123.9	130.3	137.6	145.5	147.1	150.0	151.8
80°	85.7	85.7	85.7	89.8	96.6	101.4	108.2	112.3	115.0	115.7	116.4
82.5°	68.9	68.9	68.3	69.1	71.6	74.2	80.4	85.1	87.2	86.8	85.3
85°	44.9	43.6	43.6	42.9	43.6	42.2	41.5	44.2	48.3	48.3	47.0
87.5°	22.2	21.5	21.6	20.6	19.7	18.7	16.7	16.9	16.6	18.4	17.6
90°	18.3	17.7	15.5	13.4	11.3	9.2	7.3	5.6	4.0	2.4	0.7
92.5°	19.9	18.8	17.2	15.6	14.0	12.4	11.9	12.3	12.8	13.2	13.7
95°	24.0	22.8	21.0	19.2	17.4	15.6	18.1	24.8	31.5	38.2	44.9
97.5°	25.0	23.7	35.5	47.2	59.0	70.8	78.2	81.2	84.2	87.2	90.2
100°	25.6	24.3	49.8	75.3	100.8	126.3	137.4	134.2	130.9	127.6	124.4
102.5°	44.4	48.4	76.3	104.1	132.0	159.9	172.6	170.3	167.9	165.6	163.2
105°	132.2	161.2	175.9	190.6	205.3	220.0	226.5	224.7	222.9	221.1	219.3
107.5°	274.1	295.4	293.1	290.7	288.4	286.1	284.2	282.8	281.3	279.9	278.4
110°	326.5	331.9	330.1	328.3	326.5	324.7	323.1	321.8	320.5	319.2	317.9



TEST NUMBER: P332454

CATALOG NUMBER: S123RDIW-S1000D755U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	369.1	369.0	367.2	365.4	363.6	361.8	360.3	359.1	357.9	356.7	355.6
115°	424.0	422.4	420.9	419.4	418.0	416.5	415.3	414.3	413.3	412.3	411.3
117.5°	475.5	474.2	473.4	472.7	471.9	471.2	470.2	469.0	467.8	466.6	465.4
120°	509.1	507.7	507.3	506.8	506.3	505.8	504.8	503.3	501.9	500.4	498.9
122.5°	542.2	541.3	540.7	540.1	539.4	538.8	537.9	536.7	535.5	534.3	533.1
125°	589.0	588.7	588.0	587.4	586.7	586.1	585.1	583.8	582.5	581.2	579.9
127.5°	635.1	634.6	633.8	633.0	632.3	631.5	630.4	629.1	627.8	626.5	625.2
130°	662.9	662.3	661.6	661.0	660.3	659.7	658.7	657.4	656.1	654.8	653.4
132.5°	689.4	688.8	688.2	687.7	687.2	686.7	685.8	684.4	683.1	681.8	680.5
135°	729.7	729.2	728.6	727.9	727.3	726.6	725.8	724.8	723.8	722.9	721.9
137.5°	765.2	764.4	764.1	763.7	763.3	763.0	762.2	760.9	759.7	758.4	757.2
140°	788.0	787.4	786.9	786.4	785.9	785.4	784.7	783.7	782.7	781.7	780.7
142.5°	809.7	809.2	808.7	808.2	807.7	807.2	806.5	805.5	804.5	803.5	802.5
145°	839.9	839.6	839.3	839.0	838.6	838.3	837.6	836.4	835.3	834.1	833.0
147.5°	866.9	866.5	866.2	865.9	865.6	865.2	864.7	863.9	863.2	862.4	861.7
150°	883.4	883.0	882.7	882.4	882.1	881.7	881.3	880.8	880.3	879.8	879.4
152.5°	897.7	897.2	897.0	896.8	896.6	896.4	896.2	895.9	895.7	895.5	895.2
155°	917.7	916.9	916.7	916.6	916.4	916.2	916.3	916.6	917.0	917.3	917.6
157.5°	935.1	934.1	934.3	934.4	934.6	934.8	934.9	934.9	934.9	935.0	935.0
160°	945.1	944.1	944.3	944.4	944.6	944.8	944.9	945.1	945.3	945.4	945.6
162.5°	954.1	952.9	953.1	953.3	953.4	953.6	953.9	954.3	954.7	955.2	955.6
165°	966.0	964.7	964.9	965.0	965.2	965.4	965.7	966.2	966.7	967.2	967.7
167.5°	975.4	974.1	974.1	974.1	974.1	974.1	974.5	975.1	975.8	976.4	977.1
170°	980.7	979.4	979.4	979.4	979.4	979.4	979.8	980.4	981.1	981.7	982.4
172.5°	984.3	983.0	982.8	982.7	982.6	982.4	982.8	983.6	984.3	985.1	985.9
175°	988.7	987.5	987.4	987.2	987.0	986.9	987.2	988.0	988.8	989.6	990.5
177.5°	990.3	989.3	989.2	989.0	988.9	988.8	989.0	989.7	990.3	991.0	991.6
180°	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5



TEST NUMBER: P332454

CATALOG NUMBER: S123RDIW-S1000D755U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7
2.5°	1598.4	1604.4	1612.0	1623.5	1632.2	1639.8	1641.4	1643.6	1649.1	1658.3	1665.4
5°	1608.8	1624.4	1649.6	1674.1	1700.7	1722.4	1742.8	1757.1	1770.7	1799.3	1822.5
7.5°	1605.5	1640.4	1679.8	1723.8	1768.3	1811.4	1851.5	1887.3	1922.9	1964.6	2012.1
10°	1603.3	1644.2	1697.2	1753.7	1815.7	1876.2	1934.8	1980.4	2033.4	2081.1	2141.6
12.5°	1593.0	1651.8	1715.2	1787.5	1863.6	1933.4	2010.4	2073.4	2134.2	2203.0	2273.4
15°	1579.5	1651.0	1731.3	1827.2	1942.9	2027.3	2106.2	2215.8	2290.7	2365.5	2466.3
17.5°	1554.9	1642.1	1742.4	1867.1	1963.6	2077.0	2195.8	2282.4	2383.2	2488.7	2579.9
20°	1535.3	1636.7	1749.0	1871.5	1994.6	2117.8	2232.8	2336.3	2440.4	2562.2	2637.1
22.5°	1515.7	1616.0	1732.6	1862.8	1995.2	2124.9	2255.1	2376.6	2493.7	2616.6	2712.2
25°	1474.0	1593.1	1719.7	1852.4	1983.1	2126.0	2281.1	2416.6	2561.5	2688.1	2778.6
27.5°	1431.8	1541.0	1667.0	1801.6	1946.9	2115.8	2298.3	2452.2	2597.5	2688.1	2716.6
30°	1393.7	1509.4	1625.1	1761.9	1919.1	2107.6	2301.6	2477.8	2596.9	2636.4	2607.1
32.5°	1355.1	1459.9	1574.5	1714.5	1881.5	2087.5	2305.9	2462.6	2534.3	2504.1	2385.0
35°	1286.9	1381.5	1492.4	1632.6	1824.5	2076.3	2288.0	2394.1	2376.4	2206.3	1981.7
37.5°	1213.9	1291.0	1393.7	1540.3	1765.4	2032.1	2210.6	2226.3	2073.2	1812.0	1552.6
40°	1156.2	1225.6	1331.1	1484.2	1719.7	1988.5	2132.8	2069.5	1832.0	1541.4	1325.0
42.5°	1100.1	1158.7	1260.3	1425.4	1676.2	1929.2	2016.8	1879.0	1605.0	1330.2	1133.4
45°	1005.1	1060.3	1162.3	1331.8	1587.0	1815.7	1804.1	1564.5	1290.3	1069.1	905.8
47.5°	915.0	963.2	1059.0	1232.0	1482.3	1645.5	1537.3	1282.4	1049.8	872.3	755.8
50°	851.3	899.0	994.3	1165.1	1398.5	1517.6	1363.1	1117.4	904.4	757.4	664.9
52.5°	790.4	836.9	924.0	1090.5	1297.2	1368.4	1202.5	974.8	797.2	670.3	590.8
55°	705.0	740.4	818.7	977.9	1132.4	1148.7	980.6	790.1	643.8	555.3	500.9
57.5°	618.1	648.5	725.9	852.7	961.0	952.6	793.2	628.4	529.9	464.1	424.7
60°	561.4	591.4	659.4	768.3	850.0	821.4	675.1	542.4	458.0	409.7	378.4
62.5°	508.6	532.0	595.7	675.2	734.0	701.6	577.1	467.3	400.3	359.6	334.8
65°	432.1	451.2	502.2	543.7	576.4	545.1	441.7	365.4	317.1	288.5	271.5
67.5°	359.5	371.6	403.8	418.8	441.8	407.5	332.1	281.1	253.6	229.5	217.6
70°	313.7	322.6	339.6	351.8	358.0	322.6	266.8	229.3	206.2	189.2	181.7
72.5°	268.0	275.8	279.2	289.2	286.1	252.9	214.5	184.7	168.1	156.5	146.9
75°	204.8	208.2	204.8	200.8	191.9	168.8	142.2	127.3	115.0	109.6	106.2
77.5°	149.3	148.2	143.6	137.2	122.1	107.5	93.2	88.2	82.9	80.0	78.8
80°	115.0	112.3	108.2	98.0	85.1	74.9	71.5	68.1	66.0	62.6	61.9
82.5°	85.6	84.0	77.2	68.6	59.5	54.7	51.9	50.6	48.6	46.8	46.7
85°	45.6	43.6	36.1	31.3	29.9	28.6	27.9	27.9	25.2	24.5	24.5
87.5°	15.2	12.2	12.0	10.7	11.1	10.4	11.4	10.7	10.6	11.3	10.3
90°	2.4	4.0	5.6	7.3	9.2	11.3	13.4	15.5	17.7	18.3	19.0
92.5°	13.2	12.8	12.3	11.9	12.4	14.0	15.6	17.2	18.8	19.9	20.9
95°	38.2	31.5	24.8	18.1	15.6	17.4	19.2	21.0	22.8	24.0	25.1
97.5°	87.2	84.2	81.2	78.2	70.8	59.0	47.2	35.5	23.7	25.0	26.3
100°	127.6	130.9	134.2	137.4	126.3	100.8	75.3	49.8	24.3	25.6	26.9
102.5°	165.6	167.9	170.3	172.6	159.9	132.0	104.1	76.3	48.4	44.4	40.3
105°	221.1	222.9	224.7	226.5	220.0	205.3	190.6	175.9	161.2	132.2	103.3
107.5°	279.9	281.3	282.8	284.2	286.1	288.4	290.7	293.1	295.4	274.1	252.9
110°	319.2	320.5	321.8	323.1	324.7	326.5	328.3	330.1	331.9	326.5	321.1





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	356.7	357.9	359.1	360.3	361.8	363.6	365.4	367.2	369.0	369.1	369.2
115°	412.3	413.3	414.3	415.3	416.5	418.0	419.4	420.9	422.4	424.0	425.7
117.5°	466.6	467.8	469.0	470.2	471.2	471.9	472.7	473.4	474.2	475.5	476.8
120°	500.4	501.9	503.3	504.8	505.8	506.3	506.8	507.3	507.7	509.1	510.4
122.5°	534.3	535.5	536.7	537.9	538.8	539.4	540.1	540.7	541.3	542.2	543.1
125°	581.2	582.5	583.8	585.1	586.1	586.7	587.4	588.0	588.7	589.0	589.3
127.5°	626.5	627.8	629.1	630.4	631.5	632.3	633.0	633.8	634.6	635.1	635.7
130°	654.8	656.1	657.4	658.7	659.7	660.3	661.0	661.6	662.3	662.9	663.6
132.5°	681.8	683.1	684.4	685.8	686.7	687.2	687.7	688.2	688.8	689.4	690.1
135°	722.9	723.8	724.8	725.8	726.6	727.3	727.9	728.6	729.2	729.7	730.2
137.5°	758.4	759.7	760.9	762.2	763.0	763.3	763.7	764.1	764.4	765.2	766.0
140°	781.7	782.7	783.7	784.7	785.4	785.9	786.4	786.9	787.4	788.0	788.7
142.5°	803.5	804.5	805.5	806.5	807.2	807.7	808.2	808.7	809.2	809.7	810.2
145°	834.1	835.3	836.4	837.6	838.3	838.6	839.0	839.3	839.6	839.9	840.3
147.5°	862.4	863.2	863.9	864.7	865.2	865.6	865.9	866.2	866.5	866.9	867.2
150°	879.8	880.3	880.8	881.3	881.7	882.1	882.4	882.7	883.0	883.4	883.7
152.5°	895.5	895.7	895.9	896.2	896.4	896.6	896.8	897.0	897.2	897.7	898.3
155°	917.3	917.0	916.6	916.3	916.2	916.4	916.6	916.7	916.9	917.7	918.5
157.5°	935.0	934.9	934.9	934.9	934.8	934.6	934.4	934.3	934.1	935.1	936.1
160°	945.4	945.3	945.1	944.9	944.8	944.6	944.4	944.3	944.1	945.1	946.1
162.5°	955.2	954.7	954.3	953.9	953.6	953.4	953.3	953.1	952.9	954.1	955.2
165°	967.2	966.7	966.2	965.7	965.4	965.2	965.0	964.9	964.7	966.0	967.3
167.5°	976.4	975.8	975.1	974.5	974.1	974.1	974.1	974.1	974.1	975.4	976.7
170°	981.7	981.1	980.4	979.8	979.4	979.4	979.4	979.4	979.4	980.7	982.0
172.5°	985.1	984.3	983.6	982.8	982.4	982.6	982.7	982.8	983.0	984.3	985.6
175°	989.6	988.8	988.0	987.2	986.9	987.0	987.2	987.4	987.5	988.7	989.8
177.5°	991.0	990.3	989.7	989.0	988.8	988.9	989.0	989.2	989.3	990.3	991.4
180°	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7
2.5°	1676.8	1676.8	1679.0	1687.2	1688.3	1695.3	1693.2
5°	1842.9	1855.8	1860.6	1881.0	1893.2	1898.7	1887.8
7.5°	2046.0	2082.4	2099.7	2121.1	2140.0	2145.7	2130.9
10°	2194.0	2232.1	2264.1	2283.9	2302.2	2314.5	2330.1
12.5°	2337.2	2384.0	2414.4	2442.3	2461.2	2476.7	2479.3
15°	2492.8	2563.6	2617.3	2656.8	2676.5	2686.7	2682.7
17.5°	2649.7	2715.3	2753.6	2793.9	2821.2	2822.6	2823.4
20°	2738.5	2802.4	2846.7	2876.6	2907.2	2905.9	2912.7
22.5°	2797.8	2848.2	2882.1	2903.8	2914.3	2909.1	2910.5
25°	2825.6	2840.5	2834.4	2799.7	2790.9	2758.9	2764.3
27.5°	2682.4	2611.6	2538.4	2444.2	2369.9	2310.5	2313.5
30°	2488.0	2362.8	2219.9	2100.1	1992.6	1962.7	1898.7
32.5°	2216.4	2028.5	1861.1	1749.5	1657.2	1632.2	1576.4
35°	1755.8	1573.4	1401.2	1297.8	1256.9	1199.8	1199.1
37.5°	1364.7	1204.1	1113.1	1035.5	994.8	960.2	956.8
40°	1148.1	1022.8	954.1	898.3	858.2	832.3	826.2
42.5°	996.7	895.4	831.1	796.5	765.6	752.3	742.3
45°	813.9	745.9	700.9	669.6	655.4	645.1	639.7
47.5°	680.8	635.2	604.6	583.8	572.2	561.4	564.3
50°	608.4	571.0	548.5	528.8	519.9	512.4	513.1
52.5°	550.1	516.5	498.4	484.1	473.1	467.8	465.2
55°	466.8	445.7	427.4	417.2	411.0	403.6	401.5
57.5°	398.2	381.9	366.9	355.4	353.9	346.7	347.6
60°	352.5	338.9	326.7	320.5	315.8	309.6	311.7
62.5°	315.0	303.5	292.4	287.3	282.6	278.1	279.0
65°	257.9	247.0	240.2	237.5	235.5	233.4	231.4
67.5°	205.5	198.9	194.6	188.8	184.6	183.9	181.8
70°	172.9	164.0	156.5	149.0	147.0	146.3	147.0
72.5°	138.6	133.0	130.9	127.3	126.9	125.1	126.3
75°	104.1	102.1	100.7	98.0	98.0	98.0	98.0
77.5°	76.8	75.5	74.7	74.2	73.5	72.5	72.4
80°	59.9	59.2	57.8	57.8	57.2	57.8	57.2
82.5°	45.2	45.1	43.7	43.7	43.0	42.6	43.0
85°	23.1	22.5	23.8	22.5	23.1	21.8	23.1
87.5°	10.5	10.6	10.1	10.2	9.7	10.9	9.9
90°	19.6	20.3	20.8	21.1	21.4	21.7	22.1
92.5°	22.0	23.0	23.6	23.8	24.0	24.2	24.4
95°	26.2	27.4	28.0	28.0	28.0	28.0	28.0
97.5°	27.6	28.9	29.7	29.8	30.0	30.2	30.3
100°	28.2	29.5	30.3	30.4	30.6	30.7	30.9
102.5°	36.3	32.2	30.3	30.6	30.9	31.2	31.5
105°	74.3	45.4	31.1	31.4	31.7	32.1	32.4
107.5°	231.7	210.5	189.0	167.1	145.3	123.5	101.7
110°	315.7	310.3	295.9	272.5	249.1	225.7	202.4



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	369.3	369.4	366.9	362.0	357.1	352.1	347.2
115°	427.3	428.9	430.1	430.7	431.4	432.0	432.7
117.5°	478.1	479.4	480.1	480.3	480.4	480.5	480.7
120°	511.7	513.0	513.6	513.6	513.6	513.6	513.6
122.5°	544.0	545.0	545.5	545.6	545.7	545.9	546.0
125°	589.7	590.0	590.3	590.7	591.0	591.3	591.6
127.5°	636.2	636.7	636.8	636.5	636.1	635.8	635.5
130°	664.2	664.9	665.1	664.7	664.4	664.1	663.7
132.5°	690.7	691.4	691.5	691.0	690.6	690.1	689.6
135°	730.7	731.2	731.2	730.7	730.2	729.7	729.2
137.5°	766.8	767.6	767.8	767.5	767.1	766.8	766.5
140°	789.3	790.0	790.2	789.8	789.5	789.2	788.8
142.5°	810.7	811.2	811.3	810.8	810.4	809.9	809.4
145°	840.6	840.9	841.1	841.1	841.1	841.1	841.1
147.5°	867.5	867.9	867.6	866.9	866.1	865.4	864.6
150°	884.0	884.3	884.3	883.8	883.3	882.8	882.3
152.5°	898.9	899.5	899.4	898.7	897.9	897.2	896.4
155°	919.3	920.2	920.1	919.1	918.1	917.1	916.1
157.5°	937.0	938.0	937.9	936.6	935.3	934.1	932.8
160°	947.1	948.0	948.0	946.8	945.7	944.5	943.4
162.5°	956.3	957.4	957.4	956.4	955.4	954.4	953.4
165°	968.6	969.9	970.0	968.9	967.7	966.6	965.4
167.5°	978.1	979.4	979.4	978.1	976.7	975.4	974.1
170°	983.4	984.7	984.7	983.4	982.0	980.7	979.4
172.5°	986.9	988.2	988.1	986.7	985.3	983.8	982.4
175°	991.0	992.1	992.0	990.7	989.4	988.1	986.8
177.5°	992.4	993.5	993.3	992.0	990.7	989.4	988.1
180°	990.5	990.5	990.5	990.5	990.5	990.5	990.5

(END OF REPORT)