

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: P332356-935

Luminaire Tested: **S123RDIP-S1000D1195U935-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332356-935  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-17,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123RDIP-S1000D1195U935-4F0-1E-UDD-A4  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1195 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7129.7 lumens  
Efficiency: N/A  
Efficacy: 109.0 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

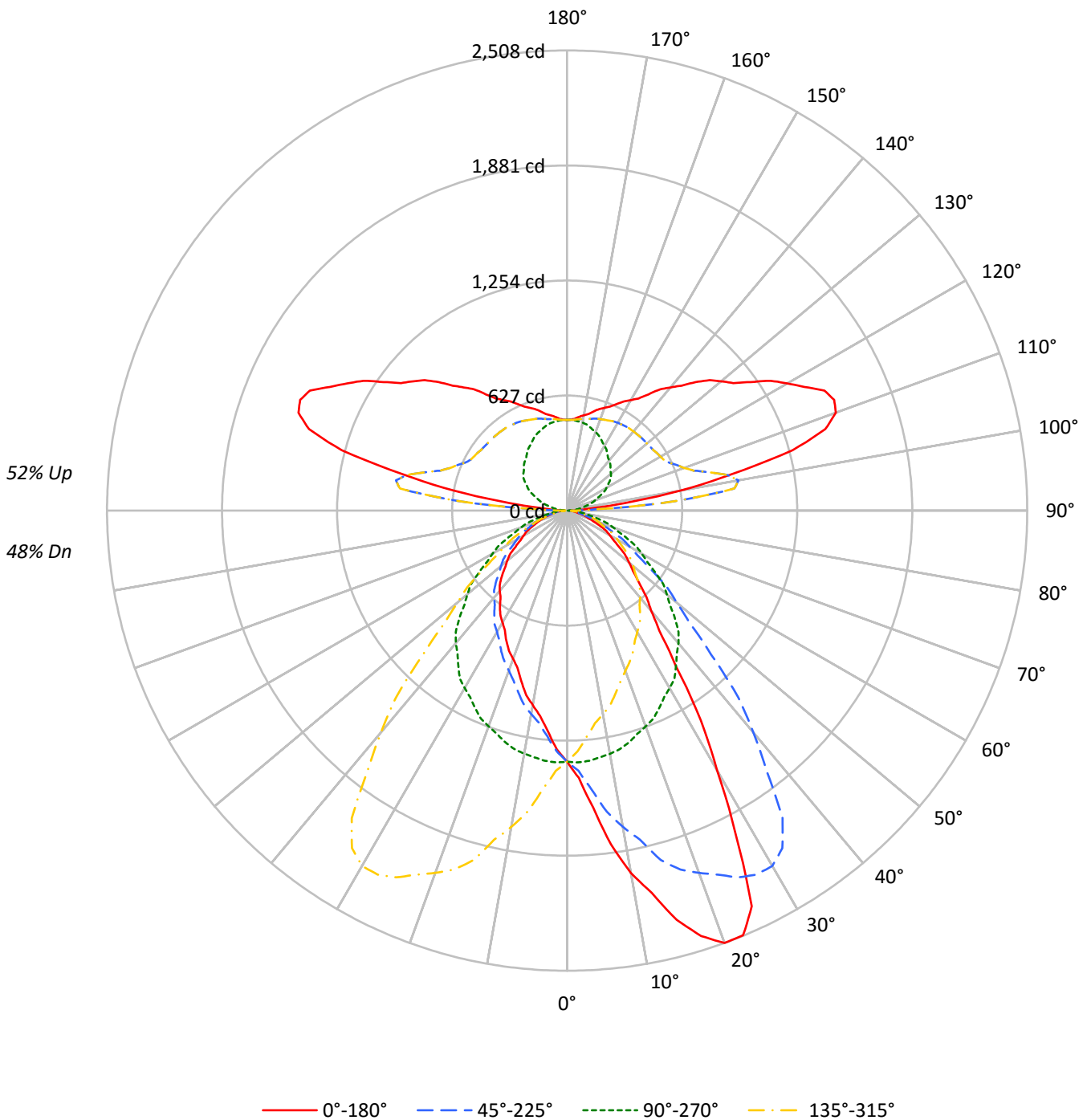
Input Watts (W): 65.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48
1	98	94	90	87	90	86	83	81	73	71	69	60	59	57	49	48	47	41
2	90	83	77	72	82	76	71	67	64	61	58	54	51	49	44	42	40	36
3	82	73	66	60	75	68	61	57	57	53	49	48	45	42	39	37	35	31
4	75	65	57	52	69	60	54	48	51	46	42	43	39	36	35	33	31	27
5	69	58	50	45	64	54	47	42	46	41	37	39	35	32	32	29	27	24
6	64	52	44	39	59	49	42	37	42	36	32	35	31	28	29	26	24	21
7	59	47	40	34	55	44	37	32	38	33	29	32	28	25	27	24	21	19
8	55	43	36	30	51	40	33	29	35	29	26	30	25	22	25	22	19	17
9	51	39	32	27	47	37	30	26	32	27	23	27	23	20	23	20	18	15
10	48	36	29	24	44	34	28	23	29	24	21	25	21	18	21	18	16	14

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

	0°	90°	180°	270°
0°	14733	14733	14733	14733
5°	17562	14795	13029	14795
10°	21928	14711	11770	14711
15°	25740	14561	10735	14561
20°	28726	14336	9852	14336
25°	28268	14099	9311	14099
30°	20319	13881	8754	13881
35°	13566	13596	8393	13596
40°	9996	13256	8019	13256
45°	8385	12657	7652	12657
50°	7398	11871	7142	11871
55°	6488	10975	6444	10975
60°	5778	10116	5903	10116
65°	5074	9192	5491	9192
70°	3984	8371	5017	8371
75°	3510	7311	4579	7311
80°	3050	6211	4506	6211
85°	2458	5002	4780	5002



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.6	1.9
10°-20°	420.5	5.9
20°-30°	660.6	9.3
30°-40°	689.3	9.7
40°-50°	589.9	8.3
50°-60°	449.6	6.3
60°-70°	288.2	4.0
70°-80°	138.6	1.9
80°-90°	40.5	0.6
90°-100°	275.0	3.9
100°-110°	778.7	10.9
110°-120°	766.1	10.7
120°-130°	611.0	8.6
130°-140°	481.8	6.8
140°-150°	359.6	5.0
150°-160°	250.6	3.5
160°-170°	147.2	2.1
170°-180°	47.9	0.7
0°-30°	1215.8	17.1
0°-40°	1905.0	26.7
0°-60°	2944.5	41.3
0°-90°	3411.8	47.9
90°-120°	1819.8	25.5
90°-150°	3272.2	45.9
90°-180°	3718.0	52.1
0°-180°	7129.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1369	1369	1369	1369	1369	
5°	1625	1369	1206	1369	1625	168
15°	2310	1307	963	1307	2310	655
25°	2380	1187	784	1187	2380	1023
35°	1032	1035	639	1035	1032	677
45°	551	832	503	832	551	433
55°	346	585	343	585	346	313
65°	199	361	216	361	199	196
75°	84	176	110	176	84	90
85°	20	40	39	40	20	24
90°	29	2	29	2	29	16
95°	116	34	116	34	116	209
105°	1272	116	1272	116	1272	1255
115°	1548	205	1548	205	1548	1504
125°	1220	285	1220	285	1220	1106
135°	989	334	989	334	989	767
145°	773	381	773	381	773	492
155°	641	433	641	433	641	299
165°	559	473	559	473	559	160
175°	503	493	503	493	503	49
180°	494	494	494	494	494	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7
2.5°	1457.8	1459.7	1453.6	1452.7	1445.6	1443.7	1443.7	1433.9	1427.8	1419.9	1415.1
5°	1625.4	1634.8	1630.0	1619.5	1602.0	1597.8	1586.7	1569.2	1549.2	1524.6	1512.9
7.5°	1834.7	1847.4	1842.5	1826.3	1807.8	1792.9	1761.6	1732.4	1691.5	1655.6	1625.0
10°	2006.2	1992.8	1982.2	1966.4	1949.4	1921.8	1889.0	1843.9	1791.8	1750.8	1705.1
12.5°	2134.7	2132.4	2119.1	2102.8	2078.8	2052.6	2012.3	1957.4	1896.8	1837.5	1785.2
15°	2309.8	2313.2	2304.5	2287.5	2253.5	2207.3	2146.3	2123.5	2036.7	1972.3	1907.8
17.5°	2430.9	2430.3	2429.1	2405.5	2370.8	2337.9	2281.4	2221.3	2142.8	2051.9	1965.1
20°	2507.8	2502.0	2503.1	2476.8	2451.0	2412.9	2357.8	2270.5	2206.1	2101.2	2011.6
22.5°	2505.9	2504.7	2509.2	2500.2	2481.5	2452.3	2408.9	2335.2	2252.9	2147.1	2046.3
25°	2380.1	2375.4	2403.0	2410.5	2440.4	2445.7	2432.8	2392.4	2314.5	2205.5	2080.7
27.5°	1991.9	1989.3	2040.5	2104.5	2185.6	2248.6	2309.5	2339.0	2314.5	2236.4	2111.3
30°	1634.8	1689.9	1715.6	1808.2	1911.3	2034.4	2142.2	2244.7	2269.9	2235.9	2133.4
32.5°	1357.3	1405.3	1426.8	1506.3	1602.4	1746.5	1908.3	2053.5	2156.0	2182.0	2120.3
35°	1032.4	1033.0	1082.2	1117.4	1206.4	1354.7	1511.7	1706.2	1899.6	2046.1	2061.3
37.5°	823.8	826.7	856.5	891.6	958.4	1036.7	1175.0	1336.8	1560.1	1785.0	1916.8
40°	711.4	716.6	738.9	773.4	821.5	880.6	988.5	1140.8	1327.1	1577.4	1781.8
42.5°	639.1	647.7	659.2	685.8	715.6	770.9	858.2	975.9	1145.3	1381.9	1617.8
45°	550.8	555.4	564.3	576.5	603.5	642.2	700.8	779.9	920.5	1110.9	1347.0
47.5°	485.9	483.4	492.7	502.7	520.6	546.9	586.2	650.7	751.1	903.9	1104.1
50°	441.8	441.2	447.6	455.3	472.3	491.6	523.8	572.5	652.1	778.7	962.1
52.5°	400.5	402.8	407.3	416.8	429.1	444.7	473.6	508.7	577.1	686.4	839.3
55°	345.7	347.5	353.9	359.2	368.0	383.7	401.9	431.3	478.1	554.3	680.3
57.5°	299.3	298.5	304.7	306.0	315.9	328.8	342.9	365.7	399.6	456.2	541.1
60°	268.4	266.6	271.9	276.0	281.3	291.8	303.5	325.8	352.8	394.3	467.0
62.5°	240.2	239.4	243.3	247.4	251.8	261.3	271.2	288.3	309.6	344.7	402.3
65°	199.2	201.0	202.8	204.5	206.8	212.7	222.1	233.8	248.4	273.0	314.6
67.5°	156.5	158.3	158.9	162.6	167.6	171.3	176.9	187.4	197.6	218.3	242.0
70°	126.6	126.0	126.6	128.3	134.7	141.2	148.9	156.4	162.9	177.5	197.4
72.5°	108.7	107.7	109.3	109.6	112.7	114.5	119.3	126.5	134.7	144.7	159.0
75°	84.4	84.4	84.4	84.4	86.7	87.9	89.6	91.4	94.4	99.0	109.6
77.5°	62.3	62.4	63.3	63.9	64.3	65.0	66.1	67.8	68.9	71.4	75.9
80°	49.2	49.8	49.2	49.8	49.8	51.0	51.6	53.3	53.9	56.8	58.6
82.5°	37.0	36.7	37.0	37.6	37.6	38.8	38.9	40.2	40.3	41.8	43.6
85°	19.9	18.8	19.9	19.4	20.5	19.4	19.9	21.1	21.1	21.7	24.0
87.5°	10.5	11.6	10.5	10.8	10.9	11.0	10.8	10.6	11.4	11.1	10.9
90°	29.0	30.0	29.0	28.0	29.0	27.0	26.0	25.0	24.0	25.0	22.0
92.5°	48.2	50.0	49.0	52.0	53.8	59.0	66.8	84.2	116.1	153.9	169.3
95°	116.1	120.0	127.1	136.0	155.1	191.1	244.1	360.2	481.1	593.2	528.2
97.5°	315.9	324.5	351.5	396.6	470.4	590.0	719.0	897.7	983.5	919.3	673.0
100°	627.2	626.2	665.2	738.2	839.3	981.4	1098.4	1179.4	1144.4	947.4	640.2
102.5°	920.2	943.1	975.8	1033.5	1112.2	1202.2	1270.4	1273.1	1152.4	895.4	592.2
105°	1272.5	1277.5	1309.5	1347.5	1393.5	1419.5	1400.5	1300.5	1091.4	804.3	533.2
107.5°	1475.3	1484.5	1495.3	1508.1	1507.4	1471.7	1384.1	1221.6	984.6	723.8	495.6
110°	1558.6	1560.6	1562.5	1554.5	1526.6	1456.6	1330.5	1146.4	917.3	678.2	481.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1575.4	1574.9	1567.4	1542.6	1491.3	1401.3	1260.1	1071.9	858.9	647.8	473.2
115°	1547.6	1542.6	1522.5	1478.5	1403.5	1294.4	1147.4	973.4	788.2	615.2	470.2
117.5°	1459.1	1452.3	1423.5	1373.1	1294.9	1184.2	1052.1	901.9	745.6	596.0	472.0
120°	1385.5	1379.5	1355.5	1299.4	1220.5	1119.4	999.4	864.3	723.2	587.2	475.2
122.5°	1316.6	1309.1	1282.6	1232.3	1162.0	1068.2	956.9	834.7	704.8	581.6	480.8
125°	1220.5	1213.4	1188.4	1144.4	1080.4	1000.3	904.3	795.3	681.2	574.2	489.1
127.5°	1141.2	1134.8	1112.2	1074.6	1017.5	944.7	858.1	760.9	660.5	570.6	498.8
130°	1096.4	1088.4	1067.4	1031.4	978.4	910.3	829.3	739.3	649.2	568.2	505.1
132.5°	1052.4	1046.8	1028.1	992.1	942.4	877.5	802.1	719.3	638.9	567.4	510.0
135°	989.4	982.3	964.3	934.4	885.3	828.3	763.3	692.2	625.3	566.2	517.2
137.5°	922.7	918.1	902.9	872.5	831.3	781.9	725.8	667.6	613.4	564.0	522.0
140°	876.3	877.3	861.3	833.3	795.3	752.3	704.2	653.2	606.2	563.2	525.2
142.5°	833.1	834.1	819.7	794.9	762.5	725.0	683.5	639.6	599.8	561.6	527.6
145°	773.3	771.3	763.3	742.3	717.2	688.3	656.3	623.2	591.2	559.2	529.2
147.5°	724.0	723.2	715.7	701.5	682.4	661.9	636.0	609.8	582.8	555.4	529.2
150°	695.3	695.3	689.2	678.2	663.2	644.2	623.2	600.2	577.2	552.2	529.2
152.5°	671.2	671.2	667.6	657.5	645.7	629.8	611.2	591.4	570.8	548.2	526.8
155°	641.2	640.2	638.3	630.3	621.2	609.2	594.2	578.2	561.2	541.2	524.2
157.5°	613.8	614.0	612.4	606.4	598.6	589.2	577.6	564.2	550.4	535.0	520.8
160°	596.2	597.2	597.2	591.2	584.2	577.2	567.2	556.2	543.2	530.2	519.2
162.5°	580.2	581.2	581.2	576.0	571.4	565.2	556.0	546.6	536.0	525.4	516.0
165°	559.2	559.2	560.2	556.2	552.2	547.2	540.2	534.2	526.2	518.1	511.2
167.5°	539.2	539.2	540.2	537.4	535.6	532.0	528.0	523.4	516.8	511.0	506.4
170°	527.2	527.2	528.2	526.2	525.2	523.1	519.2	516.2	511.2	506.2	503.2
172.5°	516.0	516.8	518.6	516.6	516.3	515.2	512.0	509.8	505.6	502.1	500.8
175°	503.2	504.2	505.1	504.2	504.2	504.2	502.1	501.2	499.2	497.1	497.1
177.5°	495.8	495.8	497.4	496.5	497.4	497.4	496.5	495.8	495.0	494.2	495.0
180°	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7
2.5°	1413.2	1411.9	1405.3	1397.8	1387.9	1381.4	1376.2	1373.5	1365.0	1354.7	1347.6
5°	1500.6	1483.0	1464.3	1441.4	1420.3	1398.6	1385.2	1369.3	1350.0	1328.4	1313.1
7.5°	1594.1	1559.6	1522.5	1484.2	1446.3	1412.4	1382.3	1356.7	1325.9	1294.8	1273.0
10°	1665.9	1615.4	1563.3	1509.9	1461.3	1415.7	1380.4	1345.9	1309.0	1273.2	1246.3
12.5°	1731.0	1664.7	1604.6	1539.0	1476.8	1422.2	1371.6	1330.9	1286.5	1248.4	1217.7
15°	1813.4	1745.5	1672.8	1573.2	1490.6	1421.5	1359.9	1306.7	1252.8	1205.8	1176.0
17.5°	1890.6	1788.3	1690.7	1607.6	1500.2	1413.8	1338.8	1275.0	1215.8	1166.1	1129.4
20°	1922.4	1823.4	1717.4	1611.4	1505.9	1409.2	1321.9	1251.5	1190.1	1133.8	1099.8
22.5°	1941.6	1829.5	1717.9	1603.9	1491.8	1391.4	1305.0	1227.7	1161.0	1107.5	1065.6
25°	1964.0	1830.5	1707.4	1594.9	1480.7	1371.7	1269.1	1187.1	1115.1	1058.2	1013.7
27.5°	1978.8	1821.7	1676.3	1551.2	1435.3	1326.8	1232.8	1145.8	1072.7	1012.6	964.8
30°	1981.7	1814.6	1652.3	1517.0	1399.2	1299.6	1200.0	1116.8	1039.5	975.6	931.1
32.5°	1985.4	1797.3	1620.0	1476.2	1355.6	1257.0	1166.7	1087.3	1008.1	945.1	899.7
35°	1970.0	1787.7	1570.9	1405.7	1285.0	1189.5	1108.0	1034.7	956.8	895.9	849.6
37.5°	1903.3	1749.6	1520.0	1326.2	1200.0	1111.6	1045.2	981.4	909.8	844.1	800.5
40°	1836.3	1712.1	1480.7	1277.9	1146.1	1055.2	995.5	943.4	874.3	812.7	765.9
42.5°	1736.5	1661.0	1443.2	1227.3	1085.1	997.6	947.2	898.4	837.7	775.2	731.2
45°	1553.3	1563.3	1366.4	1146.7	1000.7	912.9	865.4	831.5	777.6	726.0	680.9
47.5°	1323.6	1416.8	1276.3	1060.8	911.8	829.3	787.8	758.2	721.9	671.2	630.1
50°	1173.6	1306.7	1204.1	1003.2	856.1	774.0	733.0	708.9	677.3	637.5	598.2
52.5°	1035.4	1178.2	1116.9	938.9	795.6	720.6	680.5	660.7	635.6	598.1	562.6
55°	844.3	989.0	975.0	842.0	704.9	637.5	607.0	584.8	567.7	539.7	511.5
57.5°	682.9	820.2	827.4	734.2	625.0	558.4	532.2	515.4	504.3	483.0	457.0
60°	581.3	707.2	731.8	661.5	567.7	509.2	483.4	469.9	461.2	444.1	424.2
62.5°	496.9	604.1	632.0	581.3	512.9	458.1	437.9	424.9	419.0	404.3	386.8
65°	380.3	469.3	496.3	468.1	432.4	388.5	372.0	360.9	355.7	347.5	334.6
67.5°	285.9	350.9	380.4	360.6	347.7	319.9	309.5	303.5	298.9	293.2	282.4
70°	229.7	277.8	308.2	302.9	292.4	277.8	270.1	266.0	261.3	256.7	247.3
72.5°	184.7	217.7	246.3	249.0	240.4	237.5	230.7	229.0	226.2	220.6	215.4
75°	122.4	145.3	165.2	172.9	176.3	179.3	176.3	175.8	175.2	170.5	167.6
77.5°	80.2	92.6	105.1	118.1	123.6	127.6	128.5	130.7	129.2	126.7	125.3
80°	61.6	64.5	73.3	84.4	93.2	96.7	99.0	100.2	99.6	99.0	96.7
82.5°	44.7	47.1	51.2	59.1	66.5	72.3	73.7	73.4	74.7	75.1	73.3
85°	24.0	24.6	25.7	26.9	31.1	37.5	39.3	40.5	41.6	41.6	38.1
87.5°	11.3	10.2	10.6	10.2	11.2	11.0	13.4	15.4	16.3	14.8	15.4
90°	19.0	16.0	13.0	11.0	9.0	6.0	4.0	2.0	4.0	6.0	9.0
92.5°	127.1	84.0	57.9	43.0	34.6	26.8	18.4	12.4	18.4	26.8	34.6
95°	364.1	215.1	130.0	91.0	65.0	48.0	37.0	34.0	37.0	48.0	65.0
97.5°	399.5	231.5	150.2	108.1	82.4	67.6	59.0	58.0	59.0	67.6	82.4
100°	377.1	229.1	159.0	120.0	96.0	82.1	75.0	74.0	75.0	82.1	96.0
102.5°	357.9	232.3	169.4	133.6	112.0	98.8	92.6	90.8	92.6	98.8	112.0
105°	344.1	241.1	187.1	156.0	137.1	125.0	119.1	116.1	119.1	125.0	137.1
107.5°	343.1	257.5	210.1	181.2	163.4	151.6	145.9	142.8	145.9	151.6	163.4
110°	347.2	271.1	226.1	198.0	181.1	170.0	165.1	162.0	165.1	170.0	181.1





TEST NUMBER: P332356-935

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	355.2	284.7	242.9	215.7	198.6	187.7	182.7	179.7	182.7	187.7	198.6
115°	368.2	307.1	269.1	242.1	225.1	215.1	209.1	205.1	209.1	215.1	225.1
117.5°	385.3	330.9	293.3	268.3	249.3	240.0	235.1	230.5	235.1	240.0	249.3
120°	398.1	346.1	310.1	285.1	266.1	256.1	251.1	248.1	251.1	256.1	266.1
122.5°	410.2	362.1	326.9	300.3	282.1	271.3	266.3	263.3	266.3	271.3	282.1
125°	429.1	385.1	350.1	323.1	304.1	293.1	287.1	285.1	287.1	293.1	304.1
127.5°	444.8	405.1	371.3	344.3	323.3	312.1	304.7	301.7	304.7	312.1	323.3
130°	455.1	417.2	384.1	357.1	336.1	324.1	315.1	312.1	315.1	324.1	336.1
132.5°	464.8	427.6	395.4	369.1	348.1	333.7	323.9	320.1	323.9	333.7	348.1
135°	477.2	443.2	412.2	385.1	364.1	349.1	338.1	334.2	338.1	349.1	364.1
137.5°	486.4	453.9	424.1	399.2	378.3	362.3	351.5	347.3	351.5	362.3	378.3
140°	491.2	461.2	432.1	407.2	387.1	371.1	361.1	356.1	361.1	371.1	387.1
142.5°	495.9	466.7	438.6	415.2	395.1	380.7	370.0	365.8	370.0	380.7	395.1
145°	501.2	474.2	448.2	425.2	408.1	393.1	384.1	381.2	384.1	393.1	408.1
147.5°	504.4	480.2	456.3	436.8	420.3	407.3	398.6	396.7	398.6	407.3	420.3
150°	505.1	484.1	461.2	443.2	429.1	416.1	408.1	407.2	408.1	416.1	429.1
152.5°	506.8	486.6	466.7	449.5	437.1	425.8	417.8	417.6	417.8	425.8	437.1
155°	507.2	491.2	474.2	460.1	449.2	439.2	433.2	433.2	433.2	439.2	449.2
157.5°	508.2	493.8	480.2	469.3	459.9	451.2	446.3	445.6	446.3	451.2	459.9
160°	508.2	496.2	484.1	474.2	467.2	459.2	455.1	455.1	455.1	459.2	467.2
162.5°	507.4	497.0	486.6	478.2	472.0	465.5	462.4	462.4	462.4	465.5	472.0
165°	505.1	498.2	490.2	483.2	479.1	474.2	472.2	473.2	472.2	474.2	479.1
167.5°	503.6	498.0	492.1	487.8	485.0	481.1	480.2	481.4	480.2	481.1	485.0
170°	501.2	497.1	492.1	490.2	488.2	485.2	484.1	486.2	484.1	485.2	488.2
172.5°	500.4	497.1	493.0	491.8	490.6	488.4	488.2	489.4	488.2	488.4	490.6
175°	498.2	496.2	494.2	493.2	493.2	491.2	492.1	493.2	492.1	491.2	493.2
177.5°	496.5	495.0	494.2	494.2	494.2	493.4	494.2	495.0	494.2	493.4	494.2
180°	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2



TEST NUMBER: P332356-935

CATALOG NUMBER: S123RDIP-S1000D1195U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7
2.5°	1345.3	1339.2	1335.0	1325.6	1319.6	1312.9	1306.4	1310.6	1310.2	1309.7	1309.7
5°	1300.2	1286.7	1274.5	1258.6	1248.6	1236.3	1226.9	1225.8	1228.1	1220.0	1215.2
7.5°	1255.4	1237.0	1219.6	1202.1	1183.6	1168.8	1159.6	1155.2	1149.3	1144.2	1138.9
10°	1224.0	1202.4	1185.3	1163.6	1143.8	1126.2	1115.1	1107.4	1103.3	1099.2	1091.6
12.5°	1191.7	1170.4	1148.8	1124.3	1105.4	1084.9	1076.6	1068.1	1060.2	1055.6	1045.2
15°	1144.4	1116.8	1094.0	1068.2	1047.1	1027.2	1015.5	998.4	996.1	990.2	979.7
17.5°	1096.9	1067.0	1035.4	1016.4	992.6	971.8	954.0	948.3	931.5	925.2	916.0
20°	1059.4	1031.8	1007.8	982.7	948.0	928.7	914.6	907.1	893.5	885.4	879.5
22.5°	1027.0	999.0	971.3	941.8	913.3	891.7	881.4	869.5	862.1	850.7	844.3
25°	980.9	950.4	917.0	885.4	864.9	848.4	832.1	821.5	811.0	805.6	793.9
27.5°	927.2	895.4	864.1	840.1	814.9	798.7	783.9	774.5	761.8	752.9	746.5
30°	897.7	860.1	833.2	811.5	779.3	764.1	752.9	741.2	731.8	722.5	716.0
32.5°	863.4	829.2	803.7	776.9	752.1	735.5	721.1	710.8	702.7	693.9	687.4
35°	809.8	781.1	754.7	727.7	709.6	692.6	675.6	666.8	659.2	651.0	645.1
37.5°	761.2	734.4	709.4	683.8	661.2	647.5	633.8	627.1	616.7	611.2	605.3
40°	731.2	704.9	678.0	653.3	629.9	619.3	607.0	597.1	587.7	583.6	577.1
42.5°	698.4	672.1	649.4	622.8	603.6	589.4	578.0	567.1	560.1	554.1	550.4
45°	649.8	626.4	604.1	577.7	559.6	547.3	534.3	524.4	518.0	513.8	507.4
47.5°	602.6	579.1	556.6	533.6	516.0	501.9	489.0	482.1	473.6	468.6	464.2
50°	568.3	547.3	523.2	502.1	484.6	470.5	459.9	451.2	443.6	437.1	434.2
52.5°	536.9	514.4	493.7	474.1	455.5	439.5	430.0	420.7	415.0	407.6	404.2
55°	485.2	463.5	445.9	426.5	408.4	394.9	383.2	375.0	369.1	360.9	356.3
57.5°	436.5	417.1	396.1	379.4	360.6	349.2	339.5	328.4	321.2	314.8	310.2
60°	403.7	381.4	363.3	347.5	331.1	316.4	307.6	298.9	291.2	284.7	280.7
62.5°	369.5	350.1	332.8	315.6	300.6	287.8	277.6	270.3	263.6	259.4	255.4
65°	317.0	301.8	284.2	270.1	256.1	246.7	238.5	232.0	227.3	224.4	220.9
67.5°	268.7	253.9	238.6	224.8	215.4	208.3	202.9	197.3	195.0	191.2	188.9
70°	237.3	222.1	208.6	198.0	188.6	183.4	179.9	175.8	173.4	168.8	166.4
72.5°	203.1	192.1	182.4	173.7	166.2	161.4	156.9	151.9	148.1	142.9	140.6
75°	160.0	150.0	142.4	136.6	131.8	125.4	118.9	113.7	111.9	110.1	109.6
77.5°	118.5	112.2	106.7	101.7	95.8	91.2	89.8	88.6	88.3	87.3	87.3
80°	93.2	87.3	83.2	77.3	73.8	73.8	73.8	72.7	73.3	73.3	73.3
82.5°	69.2	63.9	61.6	59.5	58.8	59.3	59.3	59.5	59.2	60.1	59.7
85°	35.7	36.3	37.5	36.9	37.5	37.5	38.7	38.1	38.7	37.5	38.7
87.5°	15.3	17.1	18.2	19.3	20.3	20.5	20.8	20.9	21.6	21.8	22.2
90°	11.0	13.0	16.0	19.0	22.0	25.0	24.0	25.0	26.0	27.0	29.0
92.5°	43.0	57.9	84.0	127.1	169.3	153.9	116.1	84.2	66.8	59.0	53.8
95°	91.0	130.0	215.1	364.1	528.2	593.2	481.1	360.2	244.1	191.1	155.1
97.5°	108.1	150.2	231.5	399.5	673.0	919.3	983.5	897.7	719.0	590.0	470.4
100°	120.0	159.0	229.1	377.1	640.2	947.4	1144.4	1179.4	1098.4	981.4	839.3
102.5°	133.6	169.4	232.3	357.9	592.2	895.4	1152.4	1273.1	1270.4	1202.2	1112.2
105°	156.0	187.1	241.1	344.1	533.2	804.3	1091.4	1300.5	1400.5	1419.5	1393.5
107.5°	181.2	210.1	257.5	343.1	495.6	723.8	984.6	1221.6	1384.1	1471.7	1507.4
110°	198.0	226.1	271.1	347.2	481.1	678.2	917.3	1146.4	1330.5	1456.6	1526.6



TEST NUMBER: P332356-935

CATALOG NUMBER: S123RDIP-S1000D1195U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	215.7	242.9	284.7	355.2	473.2	647.8	858.9	1071.9	1260.1	1401.3	1491.3
115°	242.1	269.1	307.1	368.2	470.2	615.2	788.2	973.4	1147.4	1294.4	1403.5
117.5°	268.3	293.3	330.9	385.3	472.0	596.0	745.6	901.9	1052.1	1184.2	1294.9
120°	285.1	310.1	346.1	398.1	475.2	587.2	723.2	864.3	999.4	1119.4	1220.5
122.5°	300.3	326.9	362.1	410.2	480.8	581.6	704.8	834.7	956.9	1068.2	1162.0
125°	323.1	350.1	385.1	429.1	489.1	574.2	681.2	795.3	904.3	1000.3	1080.4
127.5°	344.3	371.3	405.1	444.8	498.8	570.6	660.5	760.9	858.1	944.7	1017.5
130°	357.1	384.1	417.2	455.1	505.1	568.2	649.2	739.3	829.3	910.3	978.4
132.5°	369.1	395.4	427.6	464.8	510.0	567.4	638.9	719.3	802.1	877.5	942.4
135°	385.1	412.2	443.2	477.2	517.2	566.2	625.3	692.2	763.3	828.3	885.3
137.5°	399.2	424.1	453.9	486.4	522.0	564.0	613.4	667.6	725.8	781.9	831.3
140°	407.2	432.1	461.2	491.2	525.2	563.2	606.2	653.2	704.2	752.3	795.3
142.5°	415.2	438.6	466.7	495.9	527.6	561.6	599.8	639.6	683.5	725.0	762.5
145°	425.2	448.2	474.2	501.2	529.2	559.2	591.2	623.2	656.3	688.3	717.2
147.5°	436.8	456.3	480.2	504.4	529.2	555.4	582.8	609.8	636.0	661.9	682.4
150°	443.2	461.2	484.1	505.1	529.2	552.2	577.2	600.2	623.2	644.2	663.2
152.5°	449.5	466.7	486.6	506.8	526.8	548.2	570.8	591.4	611.2	629.8	645.7
155°	460.1	474.2	491.2	507.2	524.2	541.2	561.2	578.2	594.2	609.2	621.2
157.5°	469.3	480.2	493.8	508.2	520.8	535.0	550.4	564.2	577.6	589.2	598.6
160°	474.2	484.1	496.2	508.2	519.2	530.2	543.2	556.2	567.2	577.2	584.2
162.5°	478.2	486.6	497.0	507.4	516.0	525.4	536.0	546.6	556.0	565.2	571.4
165°	483.2	490.2	498.2	505.1	511.2	518.1	526.2	534.2	540.2	547.2	552.2
167.5°	487.8	492.1	498.0	503.6	506.4	511.0	516.8	523.4	528.0	532.0	535.6
170°	490.2	492.1	497.1	501.2	503.2	506.2	511.2	516.2	519.2	523.1	525.2
172.5°	491.8	493.0	497.1	500.4	500.8	502.1	505.6	509.8	512.0	515.2	516.3
175°	493.2	494.2	496.2	498.2	497.1	497.1	499.2	501.2	502.1	504.2	504.2
177.5°	494.2	494.2	495.0	496.5	495.0	494.2	495.0	495.8	496.5	497.4	497.4
180°	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2



TEST NUMBER: P332356-935

CATALOG NUMBER: S123RDIP-S1000D1195U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7
2.5°	1304.1	1303.6	1304.1	1302.2	1304.1	1303.6	1304.1	1309.7	1309.7	1310.2	1310.6
5°	1213.5	1212.9	1211.2	1205.8	1211.2	1212.9	1213.5	1215.2	1220.0	1228.1	1225.8
7.5°	1134.4	1133.6	1128.4	1128.5	1128.4	1133.6	1134.4	1138.9	1144.2	1149.3	1155.2
10°	1087.5	1088.0	1081.1	1076.9	1081.1	1088.0	1087.5	1091.6	1099.2	1103.3	1107.4
12.5°	1042.1	1039.3	1033.7	1029.2	1033.7	1039.3	1042.1	1045.2	1055.6	1060.2	1068.1
15°	982.1	976.2	962.1	963.3	962.1	976.2	982.1	979.7	990.2	996.1	998.4
17.5°	911.4	907.1	906.8	898.6	906.8	907.1	911.4	916.0	925.2	931.5	948.3
20°	870.1	867.2	868.3	860.1	868.3	867.2	870.1	879.5	885.4	893.5	907.1
22.5°	837.8	834.8	829.9	827.3	829.9	834.8	837.8	844.3	850.7	862.1	869.5
25°	790.4	785.7	781.1	784.0	781.1	785.7	790.4	793.9	805.6	811.0	821.5
27.5°	743.1	739.6	734.9	734.3	734.9	739.6	743.1	746.5	752.9	761.8	774.5
30°	713.1	709.6	707.2	704.3	707.2	709.6	713.1	716.0	722.5	731.8	741.2
32.5°	682.6	681.9	677.7	677.1	677.7	681.9	682.6	687.4	693.9	702.7	710.8
35°	642.7	639.3	638.1	638.7	638.1	639.3	642.7	645.1	651.0	659.2	666.8
37.5°	604.9	600.2	598.1	596.0	598.1	600.2	604.9	605.3	611.2	616.7	627.1
40°	577.7	573.1	571.9	570.7	571.9	573.1	577.7	577.1	583.6	587.7	597.1
42.5°	547.3	545.4	544.7	542.6	544.7	545.4	547.3	550.4	554.1	560.1	567.1
45°	505.7	505.1	501.5	502.7	501.5	505.1	505.7	507.4	513.8	518.0	524.4
47.5°	461.8	459.3	456.8	458.4	456.8	459.3	461.8	464.2	468.6	473.6	482.1
50°	431.9	430.7	425.4	426.5	425.4	430.7	431.9	434.2	437.1	443.6	451.2
52.5°	401.8	397.4	395.4	394.7	395.4	397.4	401.8	404.2	407.6	415.0	420.7
55°	352.1	346.9	344.6	343.4	344.6	346.9	352.1	356.3	360.9	369.1	375.0
57.5°	303.4	302.0	300.1	301.4	300.1	302.0	303.4	310.2	314.8	321.2	328.4
60°	274.8	274.8	274.8	274.2	274.8	274.8	274.8	280.7	284.7	291.2	298.9
62.5°	252.8	251.3	250.9	251.8	250.9	251.3	252.8	255.4	259.4	263.6	270.3
65°	219.1	218.5	216.2	215.6	216.2	218.5	219.1	220.9	224.4	227.3	232.0
67.5°	187.4	185.3	184.6	183.7	184.6	185.3	187.4	188.9	191.2	195.0	197.3
70°	163.5	162.3	158.8	159.4	158.8	162.3	163.5	166.4	168.8	173.4	175.8
72.5°	137.7	136.6	135.8	135.0	135.8	136.6	137.7	140.6	142.9	148.1	151.9
75°	109.0	108.4	107.8	110.1	107.8	108.4	109.0	109.6	110.1	111.9	113.7
77.5°	87.3	87.3	87.6	86.7	87.6	87.3	87.3	87.3	87.3	88.3	88.6
80°	73.3	73.3	72.7	72.7	72.7	73.3	73.3	73.3	73.3	73.3	72.7
82.5°	58.7	59.2	59.5	58.6	59.5	59.2	58.7	59.7	60.1	59.2	59.5
85°	38.7	38.1	39.3	38.7	39.3	38.1	38.7	38.7	37.5	38.7	38.1
87.5°	23.0	22.2	22.4	22.6	22.4	22.2	23.0	22.2	21.8	21.6	20.9
90°	28.0	29.0	30.0	29.0	30.0	29.0	28.0	29.0	27.0	26.0	25.0
92.5°	52.0	49.0	50.0	48.2	50.0	49.0	52.0	53.8	59.0	66.8	84.2
95°	136.0	127.1	120.0	116.1	120.0	127.1	136.0	155.1	191.1	244.1	360.2
97.5°	396.6	351.5	324.5	315.9	324.5	351.5	396.6	470.4	590.0	719.0	897.7
100°	738.2	665.2	626.2	627.2	626.2	665.2	738.2	839.3	981.4	1098.4	1179.4
102.5°	1033.5	975.8	943.1	920.2	943.1	975.8	1033.5	1112.2	1202.2	1270.4	1273.1
105°	1347.5	1309.5	1277.5	1272.5	1277.5	1309.5	1347.5	1393.5	1419.5	1400.5	1300.5
107.5°	1508.1	1495.3	1484.5	1475.3	1484.5	1495.3	1508.1	1507.4	1471.7	1384.1	1221.6
110°	1554.5	1562.5	1560.6	1558.6	1560.6	1562.5	1554.5	1526.6	1456.6	1330.5	1146.4



TEST NUMBER: P332356-935

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1542.6	1567.4	1574.9	1575.4	1574.9	1567.4	1542.6	1491.3	1401.3	1260.1	1071.9
115°	1478.5	1522.5	1542.6	1547.6	1542.6	1522.5	1478.5	1403.5	1294.4	1147.4	973.4
117.5°	1373.1	1423.5	1452.3	1459.1	1452.3	1423.5	1373.1	1294.9	1184.2	1052.1	901.9
120°	1299.4	1355.5	1379.5	1385.5	1379.5	1355.5	1299.4	1220.5	1119.4	999.4	864.3
122.5°	1232.3	1282.6	1309.1	1316.6	1309.1	1282.6	1232.3	1162.0	1068.2	956.9	834.7
125°	1144.4	1188.4	1213.4	1220.5	1213.4	1188.4	1144.4	1080.4	1000.3	904.3	795.3
127.5°	1074.6	1112.2	1134.8	1141.2	1134.8	1112.2	1074.6	1017.5	944.7	858.1	760.9
130°	1031.4	1067.4	1088.4	1096.4	1088.4	1067.4	1031.4	978.4	910.3	829.3	739.3
132.5°	992.1	1028.1	1046.8	1052.4	1046.8	1028.1	992.1	942.4	877.5	802.1	719.3
135°	934.4	964.3	982.3	989.4	982.3	964.3	934.4	885.3	828.3	763.3	692.2
137.5°	872.5	902.9	918.1	922.7	918.1	902.9	872.5	831.3	781.9	725.8	667.6
140°	833.3	861.3	877.3	876.3	877.3	861.3	833.3	795.3	752.3	704.2	653.2
142.5°	794.9	819.7	834.1	833.1	834.1	819.7	794.9	762.5	725.0	683.5	639.6
145°	742.3	763.3	771.3	773.3	771.3	763.3	742.3	717.2	688.3	656.3	623.2
147.5°	701.5	715.7	723.2	724.0	723.2	715.7	701.5	682.4	661.9	636.0	609.8
150°	678.2	689.2	695.3	695.3	695.3	689.2	678.2	663.2	644.2	623.2	600.2
152.5°	657.5	667.6	671.2	671.2	671.2	667.6	657.5	645.7	629.8	611.2	591.4
155°	630.3	638.3	640.2	641.2	640.2	638.3	630.3	621.2	609.2	594.2	578.2
157.5°	606.4	612.4	614.0	613.8	614.0	612.4	606.4	598.6	589.2	577.6	564.2
160°	591.2	597.2	597.2	596.2	597.2	597.2	591.2	584.2	577.2	567.2	556.2
162.5°	576.0	581.2	581.2	580.2	581.2	581.2	576.0	571.4	565.2	556.0	546.6
165°	556.2	560.2	559.2	559.2	559.2	560.2	556.2	552.2	547.2	540.2	534.2
167.5°	537.4	540.2	539.2	539.2	539.2	540.2	537.4	535.6	532.0	528.0	523.4
170°	526.2	528.2	527.2	527.2	527.2	528.2	526.2	525.2	523.1	519.2	516.2
172.5°	516.6	518.6	516.8	516.0	516.8	518.6	516.6	516.3	515.2	512.0	509.8
175°	504.2	505.1	504.2	503.2	504.2	505.1	504.2	504.2	504.2	502.1	501.2
177.5°	496.5	497.4	495.8	495.8	495.8	497.4	496.5	497.4	497.4	496.5	495.8
180°	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2



TEST NUMBER: P332356-935

CATALOG NUMBER: S123RDIP-S1000D1195U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7
2.5°	1306.4	1312.9	1319.6	1325.6	1335.0	1339.2	1345.3	1347.6	1354.7	1365.0	1373.5
5°	1226.9	1236.3	1248.6	1258.6	1274.5	1286.7	1300.2	1313.1	1328.4	1350.0	1369.3
7.5°	1159.6	1168.8	1183.6	1202.1	1219.6	1237.0	1255.4	1273.0	1294.8	1325.9	1356.7
10°	1115.1	1126.2	1143.8	1163.6	1185.3	1202.4	1224.0	1246.3	1273.2	1309.0	1345.9
12.5°	1076.6	1084.9	1105.4	1124.3	1148.8	1170.4	1191.7	1217.7	1248.4	1286.5	1330.9
15°	1015.5	1027.2	1047.1	1068.2	1094.0	1116.8	1144.4	1176.0	1205.8	1252.8	1306.7
17.5°	954.0	971.8	992.6	1016.4	1035.4	1067.0	1096.9	1129.4	1166.1	1215.8	1275.0
20°	914.6	928.7	948.0	982.7	1007.8	1031.8	1059.4	1099.8	1133.8	1190.1	1251.5
22.5°	881.4	891.7	913.3	941.8	971.3	999.0	1027.0	1065.6	1107.5	1161.0	1227.7
25°	832.1	848.4	864.9	885.4	917.0	950.4	980.9	1013.7	1058.2	1115.1	1187.1
27.5°	783.9	798.7	814.9	840.1	864.1	895.4	927.2	964.8	1012.6	1072.7	1145.8
30°	752.9	764.1	779.3	811.5	833.2	860.1	897.7	931.1	975.6	1039.5	1116.8
32.5°	721.1	735.5	752.1	776.9	803.7	829.2	863.4	899.7	945.1	1008.1	1087.3
35°	675.6	692.6	709.6	727.7	754.7	781.1	809.8	849.6	895.9	956.8	1034.7
37.5°	633.8	647.5	661.2	683.8	709.4	734.4	761.2	800.5	844.1	909.8	981.4
40°	607.0	619.3	629.9	653.3	678.0	704.9	731.2	765.9	812.7	874.3	943.4
42.5°	578.0	589.4	603.6	622.8	649.4	672.1	698.4	731.2	775.2	837.7	898.4
45°	534.3	547.3	559.6	577.7	604.1	626.4	649.8	680.9	726.0	777.6	831.5
47.5°	489.0	501.9	516.0	533.6	556.6	579.1	602.6	630.1	671.2	721.9	758.2
50°	459.9	470.5	484.6	502.1	523.2	547.3	568.3	598.2	637.5	677.3	708.9
52.5°	430.0	439.5	455.5	474.1	493.7	514.4	536.9	562.6	598.1	635.6	660.7
55°	383.2	394.9	408.4	426.5	445.9	463.5	485.2	511.5	539.7	567.7	584.8
57.5°	339.5	349.2	360.6	379.4	396.1	417.1	436.5	457.0	483.0	504.3	515.4
60°	307.6	316.4	331.1	347.5	363.3	381.4	403.7	424.2	444.1	461.2	469.9
62.5°	277.6	287.8	300.6	315.6	332.8	350.1	369.5	386.8	404.3	419.0	424.9
65°	238.5	246.7	256.1	270.1	284.2	301.8	317.0	334.6	347.5	355.7	360.9
67.5°	202.9	208.3	215.4	224.8	238.6	253.9	268.7	282.4	293.2	298.9	303.5
70°	179.9	183.4	188.6	198.0	208.6	222.1	237.3	247.3	256.7	261.3	266.0
72.5°	156.9	161.4	166.2	173.7	182.4	192.1	203.1	215.4	220.6	226.2	229.0
75°	118.9	125.4	131.8	136.6	142.4	150.0	160.0	167.6	170.5	175.2	175.8
77.5°	89.8	91.2	95.8	101.7	106.7	112.2	118.5	125.3	126.7	129.2	130.7
80°	73.8	73.8	73.8	77.3	83.2	87.3	93.2	96.7	99.0	99.6	100.2
82.5°	59.3	59.3	58.8	59.5	61.6	63.9	69.2	73.3	75.1	74.7	73.4
85°	38.7	37.5	37.5	36.9	37.5	36.3	35.7	38.1	41.6	41.6	40.5
87.5°	20.8	20.5	20.3	19.3	18.2	17.1	15.3	15.4	14.8	16.3	15.4
90°	24.0	25.0	22.0	19.0	16.0	13.0	11.0	9.0	6.0	4.0	2.0
92.5°	116.1	153.9	169.3	127.1	84.0	57.9	43.0	34.6	26.8	18.4	12.4
95°	481.1	593.2	528.2	364.1	215.1	130.0	91.0	65.0	48.0	37.0	34.0
97.5°	983.5	919.3	673.0	399.5	231.5	150.2	108.1	82.4	67.6	59.0	58.0
100°	1144.4	947.4	640.2	377.1	229.1	159.0	120.0	96.0	82.1	75.0	74.0
102.5°	1152.4	895.4	592.2	357.9	232.3	169.4	133.6	112.0	98.8	92.6	90.8
105°	1091.4	804.3	533.2	344.1	241.1	187.1	156.0	137.1	125.0	119.1	116.1
107.5°	984.6	723.8	495.6	343.1	257.5	210.1	181.2	163.4	151.6	145.9	142.8
110°	917.3	678.2	481.1	347.2	271.1	226.1	198.0	181.1	170.0	165.1	162.0



TEST NUMBER: P332356-935

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	858.9	647.8	473.2	355.2	284.7	242.9	215.7	198.6	187.7	182.7	179.7
115°	788.2	615.2	470.2	368.2	307.1	269.1	242.1	225.1	215.1	209.1	205.1
117.5°	745.6	596.0	472.0	385.3	330.9	293.3	268.3	249.3	240.0	235.1	230.5
120°	723.2	587.2	475.2	398.1	346.1	310.1	285.1	266.1	256.1	251.1	248.1
122.5°	704.8	581.6	480.8	410.2	362.1	326.9	300.3	282.1	271.3	266.3	263.3
125°	681.2	574.2	489.1	429.1	385.1	350.1	323.1	304.1	293.1	287.1	285.1
127.5°	660.5	570.6	498.8	444.8	405.1	371.3	344.3	323.3	312.1	304.7	301.7
130°	649.2	568.2	505.1	455.1	417.2	384.1	357.1	336.1	324.1	315.1	312.1
132.5°	638.9	567.4	510.0	464.8	427.6	395.4	369.1	348.1	333.7	323.9	320.1
135°	625.3	566.2	517.2	477.2	443.2	412.2	385.1	364.1	349.1	338.1	334.2
137.5°	613.4	564.0	522.0	486.4	453.9	424.1	399.2	378.3	362.3	351.5	347.3
140°	606.2	563.2	525.2	491.2	461.2	432.1	407.2	387.1	371.1	361.1	356.1
142.5°	599.8	561.6	527.6	495.9	466.7	438.6	415.2	395.1	380.7	370.0	365.8
145°	591.2	559.2	529.2	501.2	474.2	448.2	425.2	408.1	393.1	384.1	381.2
147.5°	582.8	555.4	529.2	504.4	480.2	456.3	436.8	420.3	407.3	398.6	396.7
150°	577.2	552.2	529.2	505.1	484.1	461.2	443.2	429.1	416.1	408.1	407.2
152.5°	570.8	548.2	526.8	506.8	486.6	466.7	449.5	437.1	425.8	417.8	417.6
155°	561.2	541.2	524.2	507.2	491.2	474.2	460.1	449.2	439.2	433.2	433.2
157.5°	550.4	535.0	520.8	508.2	493.8	480.2	469.3	459.9	451.2	446.3	445.6
160°	543.2	530.2	519.2	508.2	496.2	484.1	474.2	467.2	459.2	455.1	455.1
162.5°	536.0	525.4	516.0	507.4	497.0	486.6	478.2	472.0	465.5	462.4	462.4
165°	526.2	518.1	511.2	505.1	498.2	490.2	483.2	479.1	474.2	472.2	473.2
167.5°	516.8	511.0	506.4	503.6	498.0	492.1	487.8	485.0	481.1	480.2	481.4
170°	511.2	506.2	503.2	501.2	497.1	492.1	490.2	488.2	485.2	484.1	486.2
172.5°	505.6	502.1	500.8	500.4	497.1	493.0	491.8	490.6	488.4	488.2	489.4
175°	499.2	497.1	497.1	498.2	496.2	494.2	493.2	493.2	491.2	492.1	493.2
177.5°	495.0	494.2	495.0	496.5	495.0	494.2	494.2	494.2	493.4	494.2	495.0
180°	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2



TEST NUMBER: P332356-935

CATALOG NUMBER: S123RDIP-S1000D1195U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7
2.5°	1376.2	1381.4	1387.9	1397.8	1405.3	1411.9	1413.2	1415.1	1419.9	1427.8	1433.9
5°	1385.2	1398.6	1420.3	1441.4	1464.3	1483.0	1500.6	1512.9	1524.6	1549.2	1569.2
7.5°	1382.3	1412.4	1446.3	1484.2	1522.5	1559.6	1594.1	1625.0	1655.6	1691.5	1732.4
10°	1380.4	1415.7	1461.3	1509.9	1563.3	1615.4	1665.9	1705.1	1750.8	1791.8	1843.9
12.5°	1371.6	1422.2	1476.8	1539.0	1604.6	1664.7	1731.0	1785.2	1837.5	1896.8	1957.4
15°	1359.9	1421.5	1490.6	1573.2	1672.8	1745.5	1813.4	1907.8	1972.3	2036.7	2123.5
17.5°	1338.8	1413.8	1500.2	1607.6	1690.7	1788.3	1890.6	1965.1	2051.9	2142.8	2221.3
20°	1321.9	1409.2	1505.9	1611.4	1717.4	1823.4	1922.4	2011.6	2101.2	2206.1	2270.5
22.5°	1305.0	1391.4	1491.8	1603.9	1717.9	1829.5	1941.6	2046.3	2147.1	2252.9	2335.2
25°	1269.1	1371.7	1480.7	1594.9	1707.4	1830.5	1964.0	2080.7	2205.5	2314.5	2392.4
27.5°	1232.8	1326.8	1435.3	1551.2	1676.3	1821.7	1978.8	2111.3	2236.4	2314.5	2339.0
30°	1200.0	1299.6	1399.2	1517.0	1652.3	1814.6	1981.7	2133.4	2235.9	2269.9	2244.7
32.5°	1166.7	1257.0	1355.6	1476.2	1620.0	1797.3	1985.4	2120.3	2182.0	2156.0	2053.5
35°	1108.0	1189.5	1285.0	1405.7	1570.9	1787.7	1970.0	2061.3	2046.1	1899.6	1706.2
37.5°	1045.2	1111.6	1200.0	1326.2	1520.0	1749.6	1903.3	1916.8	1785.0	1560.1	1336.8
40°	995.5	1055.2	1146.1	1277.9	1480.7	1712.1	1836.3	1781.8	1577.4	1327.1	1140.8
42.5°	947.2	997.6	1085.1	1227.3	1443.2	1661.0	1736.5	1617.8	1381.9	1145.3	975.9
45°	865.4	912.9	1000.7	1146.7	1366.4	1563.3	1553.3	1347.0	1110.9	920.5	779.9
47.5°	787.8	829.3	911.8	1060.8	1276.3	1416.8	1323.6	1104.1	903.9	751.1	650.7
50°	733.0	774.0	856.1	1003.2	1204.1	1306.7	1173.6	962.1	778.7	652.1	572.5
52.5°	680.5	720.6	795.6	938.9	1116.9	1178.2	1035.4	839.3	686.4	577.1	508.7
55°	607.0	637.5	704.9	842.0	975.0	989.0	844.3	680.3	554.3	478.1	431.3
57.5°	532.2	558.4	625.0	734.2	827.4	820.2	682.9	541.1	456.2	399.6	365.7
60°	483.4	509.2	567.7	661.5	731.8	707.2	581.3	467.0	394.3	352.8	325.8
62.5°	437.9	458.1	512.9	581.3	632.0	604.1	496.9	402.3	344.7	309.6	288.3
65°	372.0	388.5	432.4	468.1	496.3	469.3	380.3	314.6	273.0	248.4	233.8
67.5°	309.5	319.9	347.7	360.6	380.4	350.9	285.9	242.0	218.3	197.6	187.4
70°	270.1	277.8	292.4	302.9	308.2	277.8	229.7	197.4	177.5	162.9	156.4
72.5°	230.7	237.5	240.4	249.0	246.3	217.7	184.7	159.0	144.7	134.7	126.5
75°	176.3	179.3	176.3	172.9	165.2	145.3	122.4	109.6	99.0	94.4	91.4
77.5°	128.5	127.6	123.6	118.1	105.1	92.6	80.2	75.9	71.4	68.9	67.8
80°	99.0	96.7	93.2	84.4	73.3	64.5	61.6	58.6	56.8	53.9	53.3
82.5°	73.7	72.3	66.5	59.1	51.2	47.1	44.7	43.6	41.8	40.3	40.2
85°	39.3	37.5	31.1	26.9	25.7	24.6	24.0	24.0	21.7	21.1	21.1
87.5°	13.4	11.0	11.2	10.2	10.6	10.2	11.3	10.9	11.1	11.4	10.6
90°	4.0	6.0	9.0	11.0	13.0	16.0	19.0	22.0	25.0	24.0	25.0
92.5°	18.4	26.8	34.6	43.0	57.9	84.0	127.1	169.3	153.9	116.1	84.2
95°	37.0	48.0	65.0	91.0	130.0	215.1	364.1	528.2	593.2	481.1	360.2
97.5°	59.0	67.6	82.4	108.1	150.2	231.5	399.5	673.0	919.3	983.5	897.7
100°	75.0	82.1	96.0	120.0	159.0	229.1	377.1	640.2	947.4	1144.4	1179.4
102.5°	92.6	98.8	112.0	133.6	169.4	232.3	357.9	592.2	895.4	1152.4	1273.1
105°	119.1	125.0	137.1	156.0	187.1	241.1	344.1	533.2	804.3	1091.4	1300.5
107.5°	145.9	151.6	163.4	181.2	210.1	257.5	343.1	495.6	723.8	984.6	1221.6
110°	165.1	170.0	181.1	198.0	226.1	271.1	347.2	481.1	678.2	917.3	1146.4





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	182.7	187.7	198.6	215.7	242.9	284.7	355.2	473.2	647.8	858.9	1071.9
115°	209.1	215.1	225.1	242.1	269.1	307.1	368.2	470.2	615.2	788.2	973.4
117.5°	235.1	240.0	249.3	268.3	293.3	330.9	385.3	472.0	596.0	745.6	901.9
120°	251.1	256.1	266.1	285.1	310.1	346.1	398.1	475.2	587.2	723.2	864.3
122.5°	266.3	271.3	282.1	300.3	326.9	362.1	410.2	480.8	581.6	704.8	834.7
125°	287.1	293.1	304.1	323.1	350.1	385.1	429.1	489.1	574.2	681.2	795.3
127.5°	304.7	312.1	323.3	344.3	371.3	405.1	444.8	498.8	570.6	660.5	760.9
130°	315.1	324.1	336.1	357.1	384.1	417.2	455.1	505.1	568.2	649.2	739.3
132.5°	323.9	333.7	348.1	369.1	395.4	427.6	464.8	510.0	567.4	638.9	719.3
135°	338.1	349.1	364.1	385.1	412.2	443.2	477.2	517.2	566.2	625.3	692.2
137.5°	351.5	362.3	378.3	399.2	424.1	453.9	486.4	522.0	564.0	613.4	667.6
140°	361.1	371.1	387.1	407.2	432.1	461.2	491.2	525.2	563.2	606.2	653.2
142.5°	370.0	380.7	395.1	415.2	438.6	466.7	495.9	527.6	561.6	599.8	639.6
145°	384.1	393.1	408.1	425.2	448.2	474.2	501.2	529.2	559.2	591.2	623.2
147.5°	398.6	407.3	420.3	436.8	456.3	480.2	504.4	529.2	555.4	582.8	609.8
150°	408.1	416.1	429.1	443.2	461.2	484.1	505.1	529.2	552.2	577.2	600.2
152.5°	417.8	425.8	437.1	449.5	466.7	486.6	506.8	526.8	548.2	570.8	591.4
155°	433.2	439.2	449.2	460.1	474.2	491.2	507.2	524.2	541.2	561.2	578.2
157.5°	446.3	451.2	459.9	469.3	480.2	493.8	508.2	520.8	535.0	550.4	564.2
160°	455.1	459.2	467.2	474.2	484.1	496.2	508.2	519.2	530.2	543.2	556.2
162.5°	462.4	465.5	472.0	478.2	486.6	497.0	507.4	516.0	525.4	536.0	546.6
165°	472.2	474.2	479.1	483.2	490.2	498.2	505.1	511.2	518.1	526.2	534.2
167.5°	480.2	481.1	485.0	487.8	492.1	498.0	503.6	506.4	511.0	516.8	523.4
170°	484.1	485.2	488.2	490.2	492.1	497.1	501.2	503.2	506.2	511.2	516.2
172.5°	488.2	488.4	490.6	491.8	493.0	497.1	500.4	500.8	502.1	505.6	509.8
175°	492.1	491.2	493.2	493.2	494.2	496.2	498.2	497.1	497.1	499.2	501.2
177.5°	494.2	493.4	494.2	494.2	494.2	495.0	496.5	495.0	494.2	495.0	495.8
180°	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7
2.5°	1443.7	1443.7	1445.6	1452.7	1453.6	1459.7	1457.8
5°	1586.7	1597.8	1602.0	1619.5	1630.0	1634.8	1625.4
7.5°	1761.6	1792.9	1807.8	1826.3	1842.5	1847.4	1834.7
10°	1889.0	1921.8	1949.4	1966.4	1982.2	1992.8	2006.2
12.5°	2012.3	2052.6	2078.8	2102.8	2119.1	2132.4	2134.7
15°	2146.3	2207.3	2253.5	2287.5	2304.5	2313.2	2309.8
17.5°	2281.4	2337.9	2370.8	2405.5	2429.1	2430.3	2430.9
20°	2357.8	2412.9	2451.0	2476.8	2503.1	2502.0	2507.8
22.5°	2408.9	2452.3	2481.5	2500.2	2509.2	2504.7	2505.9
25°	2432.8	2445.7	2440.4	2410.5	2403.0	2375.4	2380.1
27.5°	2309.5	2248.6	2185.6	2104.5	2040.5	1989.3	1991.9
30°	2142.2	2034.4	1911.3	1808.2	1715.6	1689.9	1634.8
32.5°	1908.3	1746.5	1602.4	1506.3	1426.8	1405.3	1357.3
35°	1511.7	1354.7	1206.4	1117.4	1082.2	1033.0	1032.4
37.5°	1175.0	1036.7	958.4	891.6	856.5	826.7	823.8
40°	988.5	880.6	821.5	773.4	738.9	716.6	711.4
42.5°	858.2	770.9	715.6	685.8	659.2	647.7	639.1
45°	700.8	642.2	603.5	576.5	564.3	555.4	550.8
47.5°	586.2	546.9	520.6	502.7	492.7	483.4	485.9
50°	523.8	491.6	472.3	455.3	447.6	441.2	441.8
52.5°	473.6	444.7	429.1	416.8	407.3	402.8	400.5
55°	401.9	383.7	368.0	359.2	353.9	347.5	345.7
57.5°	342.9	328.8	315.9	306.0	304.7	298.5	299.3
60°	303.5	291.8	281.3	276.0	271.9	266.6	268.4
62.5°	271.2	261.3	251.8	247.4	243.3	239.4	240.2
65°	222.1	212.7	206.8	204.5	202.8	201.0	199.2
67.5°	176.9	171.3	167.6	162.6	158.9	158.3	156.5
70°	148.9	141.2	134.7	128.3	126.6	126.0	126.6
72.5°	119.3	114.5	112.7	109.6	109.3	107.7	108.7
75°	89.6	87.9	86.7	84.4	84.4	84.4	84.4
77.5°	66.1	65.0	64.3	63.9	63.3	62.4	62.3
80°	51.6	51.0	49.8	49.8	49.2	49.8	49.2
82.5°	38.9	38.8	37.6	37.6	37.0	36.7	37.0
85°	19.9	19.4	20.5	19.4	19.9	18.8	19.9
87.5°	10.8	11.0	10.9	10.8	10.5	11.6	10.5
90°	26.0	27.0	29.0	28.0	29.0	30.0	29.0
92.5°	66.8	59.0	53.8	52.0	49.0	50.0	48.2
95°	244.1	191.1	155.1	136.0	127.1	120.0	116.1
97.5°	719.0	590.0	470.4	396.6	351.5	324.5	315.9
100°	1098.4	981.4	839.3	738.2	665.2	626.2	627.2
102.5°	1270.4	1202.2	1112.2	1033.5	975.8	943.1	920.2
105°	1400.5	1419.5	1393.5	1347.5	1309.5	1277.5	1272.5
107.5°	1384.1	1471.7	1507.4	1508.1	1495.3	1484.5	1475.3
110°	1330.5	1456.6	1526.6	1554.5	1562.5	1560.6	1558.6



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	1260.1	1401.3	1491.3	1542.6	1567.4	1574.9	1575.4
115°	1147.4	1294.4	1403.5	1478.5	1522.5	1542.6	1547.6
117.5°	1052.1	1184.2	1294.9	1373.1	1423.5	1452.3	1459.1
120°	999.4	1119.4	1220.5	1299.4	1355.5	1379.5	1385.5
122.5°	956.9	1068.2	1162.0	1232.3	1282.6	1309.1	1316.6
125°	904.3	1000.3	1080.4	1144.4	1188.4	1213.4	1220.5
127.5°	858.1	944.7	1017.5	1074.6	1112.2	1134.8	1141.2
130°	829.3	910.3	978.4	1031.4	1067.4	1088.4	1096.4
132.5°	802.1	877.5	942.4	992.1	1028.1	1046.8	1052.4
135°	763.3	828.3	885.3	934.4	964.3	982.3	989.4
137.5°	725.8	781.9	831.3	872.5	902.9	918.1	922.7
140°	704.2	752.3	795.3	833.3	861.3	877.3	876.3
142.5°	683.5	725.0	762.5	794.9	819.7	834.1	833.1
145°	656.3	688.3	717.2	742.3	763.3	771.3	773.3
147.5°	636.0	661.9	682.4	701.5	715.7	723.2	724.0
150°	623.2	644.2	663.2	678.2	689.2	695.3	695.3
152.5°	611.2	629.8	645.7	657.5	667.6	671.2	671.2
155°	594.2	609.2	621.2	630.3	638.3	640.2	641.2
157.5°	577.6	589.2	598.6	606.4	612.4	614.0	613.8
160°	567.2	577.2	584.2	591.2	597.2	597.2	596.2
162.5°	556.0	565.2	571.4	576.0	581.2	581.2	580.2
165°	540.2	547.2	552.2	556.2	560.2	559.2	559.2
167.5°	528.0	532.0	535.6	537.4	540.2	539.2	539.2
170°	519.2	523.1	525.2	526.2	528.2	527.2	527.2
172.5°	512.0	515.2	516.3	516.6	518.6	516.8	516.0
175°	502.1	504.2	504.2	504.2	505.1	504.2	503.2
177.5°	496.5	497.4	497.4	496.5	497.4	495.8	495.8
180°	494.2	494.2	494.2	494.2	494.2	494.2	494.2

(END OF REPORT)