

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: P332354

Luminaire Tested: **S123RDIP-S1000D1195U835-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332354
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: S123RDIP-S1000D1195U835-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1195 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8731.3 lumens
Efficiency: N/A
Efficacy: 133.5 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

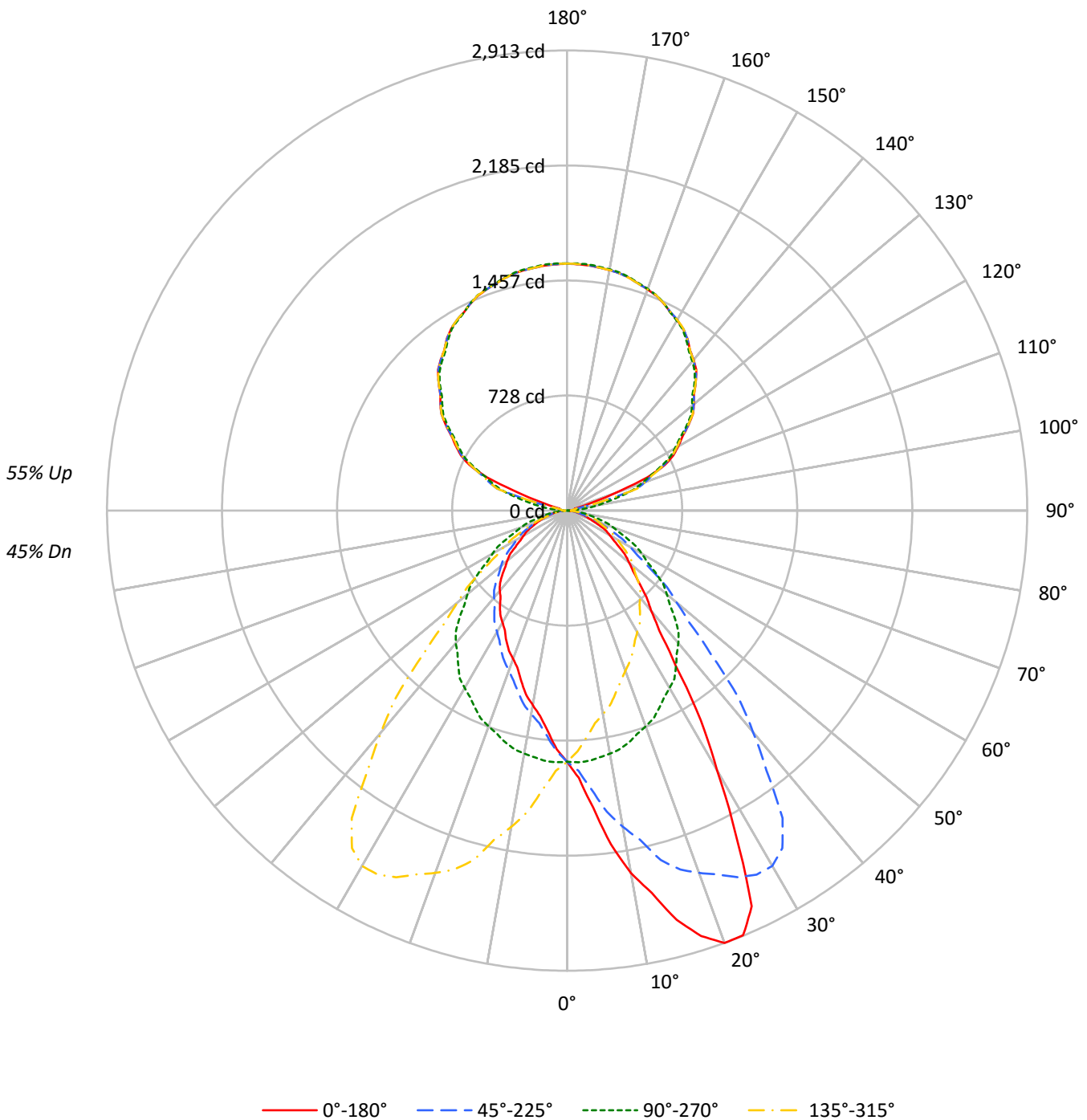
Input Watts (W): 65.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	45
1	97	93	90	86	89	86	83	80	72	69	67	59	57	56	47	46	45	39
2	89	82	76	71	81	75	70	66	63	60	57	52	50	47	42	40	39	34
3	82	72	66	60	75	67	61	56	56	52	48	47	43	41	37	35	33	29
4	75	64	57	51	68	60	53	48	50	45	41	42	38	35	34	31	29	26
5	69	58	50	44	63	53	47	41	45	40	36	38	34	31	31	28	26	22
6	63	52	44	38	58	48	41	36	41	36	32	34	30	27	28	25	23	20
7	59	47	39	34	54	44	37	32	37	32	28	31	27	24	26	23	21	18
8	55	43	35	30	50	40	33	28	34	29	25	29	25	22	24	21	18	16
9	51	39	32	27	47	36	30	25	31	26	22	26	22	20	22	19	17	15
10	48	36	29	24	44	33	27	23	29	24	20	24	21	18	20	17	15	13

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	1.8
10°-20°	488.4	5.6
20°-30°	767.3	8.8
30°-40°	800.5	9.2
40°-50°	685.1	7.8
50°-60°	522.2	6.0
60°-70°	334.7	3.8
70°-80°	161.0	1.8
80°-90°	47.0	0.5
90°-100°	56.9	0.7
100°-110°	271.0	3.1
110°-120°	650.9	7.5
120°-130°	828.8	9.5
130°-140°	885.6	10.1
140°-150°	828.1	9.5
150°-160°	668.0	7.7
160°-170°	431.1	4.9
170°-180°	148.6	1.7
0°-30°	1412.0	16.2
0°-40°	2212.6	25.3
0°-60°	3419.8	39.2
0°-90°	3962.5	45.4
90°-120°	978.7	11.2
90°-150°	3521.2	40.3
90°-180°	4769.0	54.6
0°-180°	8731.3	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°	35	1	35	1	35	17
95°	44	71	44	71	44	37
105°	51	346	51	346	51	117
115°	683	650	683	650	683	631
125°	934	916	934	916	934	834
135°	1151	1140	1151	1140	1151	888
145°	1328	1315	1328	1315	1328	829
155°	1446	1449	1446	1449	1446	667
165°	1524	1528	1524	1528	1524	430
175°	1558	1564	1558	1564	1558	148
180°	1564	1564	1564	1564	1564	



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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°	12.4	13.4	12.2	12.6	12.5	12.9	12.7	12.5	13.4	12.7	12.5
90°	34.9	34.3	33.8	33.3	32.8	32.0	31.0	29.9	28.9	27.9	24.5
92.5°	38.6	38.3	38.0	37.6	37.3	36.4	34.7	33.0	31.4	29.7	27.2
95°	44.1	44.1	44.1	44.1	44.1	43.2	41.4	39.6	37.8	36.0	33.2
97.5°	47.9	47.6	47.4	47.1	46.8	45.7	43.6	41.5	39.5	37.4	35.0
100°	48.8	48.5	48.3	48.0	47.8	46.6	44.5	42.5	40.4	38.3	35.6
102.5°	49.7	49.3	48.8	48.3	47.9	50.8	57.2	63.6	70.0	76.4	120.4
105°	51.1	50.6	50.1	49.6	49.1	71.6	117.3	163.0	208.7	254.4	277.7
107.5°	160.6	195.0	229.4	263.9	298.3	332.3	365.8	399.3	432.8	466.4	462.7
110°	319.5	356.4	393.3	430.3	467.2	489.9	498.4	506.9	515.5	524.0	521.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	548.1	555.9	563.7	571.5	579.3	583.2	583.0	582.8	582.7	582.5	579.7
115°	683.1	682.1	681.1	680.0	679.0	677.2	674.6	672.0	669.5	666.9	664.6
117.5°	758.9	758.7	758.5	758.3	758.1	756.9	754.9	752.8	750.7	748.7	747.5
120°	810.9	810.9	810.9	810.9	810.9	809.9	807.8	805.8	803.7	801.6	800.9
122.5°	862.1	861.9	861.6	861.4	861.2	860.4	859.0	857.5	856.1	854.6	853.6
125°	934.1	933.6	933.1	932.5	932.0	931.5	931.0	930.5	930.0	929.4	928.4
127.5°	1003.3	1003.9	1004.4	1004.9	1005.4	1005.2	1004.4	1003.6	1002.8	1001.9	1000.7
130°	1048.0	1048.5	1049.0	1049.5	1050.0	1049.8	1048.7	1047.7	1046.7	1045.6	1044.6
132.5°	1088.8	1089.6	1090.3	1091.0	1091.7	1091.6	1090.6	1089.5	1088.5	1087.5	1086.6
135°	1151.4	1152.1	1152.9	1153.7	1154.5	1154.5	1153.7	1152.9	1152.1	1151.4	1150.3
137.5°	1210.1	1210.7	1211.2	1211.7	1212.2	1211.8	1210.6	1209.4	1208.1	1206.9	1206.3
140°	1245.5	1246.0	1246.5	1247.0	1247.5	1247.3	1246.2	1245.2	1244.2	1243.1	1242.4
142.5°	1278.0	1278.7	1279.4	1280.2	1280.9	1280.8	1280.0	1279.2	1278.4	1277.5	1276.8
145°	1327.9	1327.9	1327.9	1327.9	1327.9	1327.7	1327.2	1326.7	1326.1	1325.6	1325.1
147.5°	1365.1	1366.3	1367.5	1368.7	1369.9	1370.2	1369.7	1369.2	1368.7	1368.1	1367.6
150°	1393.0	1393.8	1394.6	1395.3	1396.1	1396.2	1395.7	1395.2	1394.7	1394.2	1393.7
152.5°	1415.3	1416.5	1417.7	1418.9	1420.1	1420.2	1419.3	1418.3	1417.4	1416.5	1416.2
155°	1446.5	1448.0	1449.6	1451.1	1452.6	1452.8	1451.5	1450.2	1448.9	1447.6	1447.4
157.5°	1472.7	1474.7	1476.7	1478.8	1480.8	1481.0	1479.4	1477.9	1476.4	1474.8	1475.1
160°	1489.4	1491.2	1493.1	1494.9	1496.7	1496.8	1495.2	1493.7	1492.2	1490.6	1490.9
162.5°	1505.2	1506.8	1508.4	1510.0	1511.6	1511.6	1509.8	1508.1	1506.3	1504.5	1504.8
165°	1524.3	1526.1	1527.9	1529.7	1531.5	1531.4	1529.3	1527.3	1525.2	1523.1	1523.4
167.5°	1538.0	1540.1	1542.1	1544.2	1546.3	1546.3	1544.2	1542.1	1540.1	1538.0	1538.0
170°	1546.4	1548.4	1550.5	1552.6	1554.6	1554.6	1552.6	1550.5	1548.4	1546.4	1546.4
172.5°	1551.0	1553.3	1555.6	1557.8	1560.1	1560.2	1558.1	1556.1	1554.0	1551.9	1551.7
175°	1558.0	1560.1	1562.1	1564.2	1566.2	1566.4	1564.6	1562.8	1561.0	1559.1	1558.9
177.5°	1560.1	1562.1	1564.2	1566.3	1568.3	1568.5	1566.9	1565.2	1563.6	1561.9	1561.7
180°	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8



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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°	12.9	11.7	12.1	11.6	12.7	12.7	15.4	17.7	18.7	17.1	17.6
90°	21.2	17.8	14.5	11.5	8.9	6.3	3.7	1.2	3.7	6.3	8.9
92.5°	24.7	22.2	19.6	18.7	19.4	20.2	20.9	21.6	20.9	20.2	19.4
95°	30.3	27.5	24.7	28.5	39.1	49.7	60.3	70.9	60.3	49.7	39.1
97.5°	74.6	93.2	111.8	123.4	128.2	132.9	137.7	142.4	137.7	132.9	128.2
100°	118.9	159.2	199.4	217.0	211.8	206.7	201.5	196.3	201.5	206.7	211.8
102.5°	164.4	208.4	252.4	272.6	268.8	265.1	261.4	257.7	261.4	265.1	268.8
105°	300.9	324.1	347.4	357.6	354.7	351.9	349.1	346.2	349.1	351.9	354.7
107.5°	459.0	455.4	451.7	448.7	446.4	444.2	441.9	439.6	441.9	444.2	446.4
110°	518.3	515.5	512.6	510.2	508.1	506.0	504.0	501.9	504.0	506.0	508.1



TEST NUMBER: P332354

CATALOG NUMBER: S123RDIP-S1000D1195U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	576.9	574.0	571.2	568.8	567.0	565.1	563.2	561.4	563.2	565.1	567.0
115°	662.2	659.9	657.6	655.6	654.1	652.5	651.0	649.5	651.0	652.5	654.1
117.5°	746.3	745.1	743.9	742.4	740.5	738.5	736.6	734.7	736.6	738.5	740.5
120°	800.1	799.3	798.6	797.0	794.7	792.4	790.0	787.7	790.0	792.4	794.7
122.5°	852.7	851.7	850.7	849.3	847.3	845.4	843.5	841.6	843.5	845.4	847.3
125°	927.4	926.3	925.3	923.8	921.7	919.6	917.6	915.5	917.6	919.6	921.7
127.5°	999.5	998.2	997.0	995.3	993.3	991.2	989.1	987.1	989.1	991.2	993.3
130°	1043.6	1042.5	1041.5	1039.9	1037.9	1035.8	1033.8	1031.7	1033.8	1035.8	1037.9
132.5°	1085.8	1085.0	1084.1	1082.7	1080.6	1078.6	1076.5	1074.4	1076.5	1078.6	1080.6
135°	1149.3	1148.3	1147.2	1145.9	1144.4	1142.8	1141.3	1139.7	1141.3	1142.8	1144.4
137.5°	1205.8	1205.2	1204.6	1203.4	1201.4	1199.4	1197.5	1195.5	1197.5	1199.4	1201.4
140°	1241.6	1240.8	1240.0	1238.9	1237.3	1235.8	1234.2	1232.7	1234.2	1235.8	1237.3
142.5°	1276.0	1275.2	1274.4	1273.3	1271.7	1270.2	1268.6	1267.1	1268.6	1270.2	1271.7
145°	1324.6	1324.1	1323.6	1322.4	1320.6	1318.8	1317.0	1315.2	1317.0	1318.8	1320.6
147.5°	1367.1	1366.6	1366.1	1365.2	1364.0	1362.9	1361.7	1360.5	1361.7	1362.9	1364.0
150°	1393.1	1392.6	1392.1	1391.5	1390.7	1389.9	1389.1	1388.4	1389.1	1389.9	1390.7
152.5°	1415.9	1415.5	1415.2	1414.9	1414.5	1414.2	1413.8	1413.5	1413.8	1414.2	1414.5
155°	1447.1	1446.8	1446.6	1446.7	1447.2	1447.7	1448.3	1448.8	1448.3	1447.7	1447.2
157.5°	1475.3	1475.6	1475.8	1476.0	1476.0	1476.1	1476.1	1476.2	1476.1	1476.1	1476.0
160°	1491.1	1491.4	1491.6	1491.9	1492.2	1492.4	1492.7	1492.9	1492.7	1492.4	1492.2
162.5°	1505.1	1505.3	1505.6	1506.0	1506.7	1507.4	1508.1	1508.7	1508.1	1507.4	1506.7
165°	1523.6	1523.9	1524.2	1524.7	1525.5	1526.2	1527.0	1527.8	1527.0	1526.2	1525.5
167.5°	1538.0	1538.0	1538.0	1538.5	1539.6	1540.6	1541.6	1542.7	1541.6	1540.6	1539.6
170°	1546.4	1546.4	1546.4	1546.9	1547.9	1549.0	1550.0	1551.0	1550.0	1549.0	1547.9
172.5°	1551.5	1551.3	1551.1	1551.6	1552.9	1554.1	1555.4	1556.6	1555.4	1554.1	1552.9
175°	1558.6	1558.4	1558.1	1558.6	1559.9	1561.2	1562.5	1563.8	1562.5	1561.2	1559.9
177.5°	1561.5	1561.3	1561.1	1561.5	1562.6	1563.6	1564.6	1565.7	1564.6	1563.6	1562.6
180°	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8



TEST NUMBER: P332354

CATALOG NUMBER: S123RDIP-S1000D1195U835-4F0-1E-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°	17.5	19.8	21.0	22.2	23.4	23.5	24.3	24.5	25.3	25.5	25.6
90°	11.5	14.5	17.8	21.2	24.5	27.9	28.9	29.9	31.0	32.0	32.8
92.5°	18.7	19.6	22.2	24.7	27.2	29.7	31.4	33.0	34.7	36.4	37.3
95°	28.5	24.7	27.5	30.3	33.2	36.0	37.8	39.6	41.4	43.2	44.1
97.5°	123.4	111.8	93.2	74.6	56.0	37.4	39.5	41.5	43.6	45.7	46.8
100°	217.0	199.4	159.2	118.9	78.6	38.3	40.4	42.5	44.5	46.6	47.8
102.5°	272.6	252.4	208.4	164.4	120.4	76.4	70.0	63.6	57.2	50.8	47.9
105°	357.6	347.4	324.1	300.9	277.7	254.4	208.7	163.0	117.3	71.6	49.1
107.5°	448.7	451.7	455.4	459.0	462.7	466.4	432.8	399.3	365.8	332.3	298.3
110°	510.2	512.6	515.5	518.3	521.1	524.0	515.5	506.9	498.4	489.9	467.2



TEST NUMBER: P332354

CATALOG NUMBER: S123RDIP-S1000D1195U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	568.8	571.2	574.0	576.9	579.7	582.5	582.7	582.8	583.0	583.2	579.3
115°	655.6	657.6	659.9	662.2	664.6	666.9	669.5	672.0	674.6	677.2	679.0
117.5°	742.4	743.9	745.1	746.3	747.5	748.7	750.7	752.8	754.9	756.9	758.1
120°	797.0	798.6	799.3	800.1	800.9	801.6	803.7	805.8	807.8	809.9	810.9
122.5°	849.3	850.7	851.7	852.7	853.6	854.6	856.1	857.5	859.0	860.4	861.2
125°	923.8	925.3	926.3	927.4	928.4	929.4	930.0	930.5	931.0	931.5	932.0
127.5°	995.3	997.0	998.2	999.5	1000.7	1001.9	1002.8	1003.6	1004.4	1005.2	1005.4
130°	1039.9	1041.5	1042.5	1043.6	1044.6	1045.6	1046.7	1047.7	1048.7	1049.8	1050.0
132.5°	1082.7	1084.1	1085.0	1085.8	1086.6	1087.5	1088.5	1089.5	1090.6	1091.6	1091.7
135°	1145.9	1147.2	1148.3	1149.3	1150.3	1151.4	1152.1	1152.9	1153.7	1154.5	1154.5
137.5°	1203.4	1204.6	1205.2	1205.8	1206.3	1206.9	1208.1	1209.4	1210.6	1211.8	1212.2
140°	1238.9	1240.0	1240.8	1241.6	1242.4	1243.1	1244.2	1245.2	1246.2	1247.3	1247.5
142.5°	1273.3	1274.4	1275.2	1276.0	1276.8	1277.5	1278.4	1279.2	1280.0	1280.8	1280.9
145°	1322.4	1323.6	1324.1	1324.6	1325.1	1325.6	1326.1	1326.7	1327.2	1327.7	1327.9
147.5°	1365.2	1366.1	1366.6	1367.1	1367.6	1368.1	1368.7	1369.2	1369.7	1370.2	1369.9
150°	1391.5	1392.1	1392.6	1393.1	1393.7	1394.2	1394.7	1395.2	1395.7	1396.2	1396.1
152.5°	1414.9	1415.2	1415.5	1415.9	1416.2	1416.5	1417.4	1418.3	1419.3	1420.2	1420.1
155°	1446.7	1446.6	1446.8	1447.1	1447.4	1447.6	1448.9	1450.2	1451.5	1452.8	1452.6
157.5°	1476.0	1475.8	1475.6	1475.3	1475.1	1474.8	1476.4	1477.9	1479.4	1481.0	1480.8
160°	1491.9	1491.6	1491.4	1491.1	1490.9	1490.6	1492.2	1493.7	1495.2	1496.8	1496.7
162.5°	1506.0	1505.6	1505.3	1505.1	1504.8	1504.5	1506.3	1508.1	1509.8	1511.6	1511.6
165°	1524.7	1524.2	1523.9	1523.6	1523.4	1523.1	1525.2	1527.3	1529.3	1531.4	1531.5
167.5°	1538.5	1538.0	1538.0	1538.0	1538.0	1538.0	1540.1	1542.1	1544.2	1546.3	1546.3
170°	1546.9	1546.4	1546.4	1546.4	1546.4	1546.4	1548.4	1550.5	1552.6	1554.6	1554.6
172.5°	1551.6	1551.1	1551.3	1551.5	1551.7	1551.9	1554.0	1556.1	1558.1	1560.2	1560.1
175°	1558.6	1558.1	1558.4	1558.6	1558.9	1559.1	1561.0	1562.8	1564.6	1566.4	1566.2
177.5°	1561.5	1561.1	1561.3	1561.5	1561.7	1561.9	1563.6	1565.2	1566.9	1568.5	1568.3
180°	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8



TEST NUMBER: P332354

CATALOG NUMBER: S123RDIP-S1000D1195U835-4F0-1E-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°	26.8	25.8	25.9	26.6	25.9	25.8	26.8	25.6	25.5	25.3	24.5
90°	33.3	33.8	34.3	34.9	34.3	33.8	33.3	32.8	32.0	31.0	29.9
92.5°	37.6	38.0	38.3	38.6	38.3	38.0	37.6	37.3	36.4	34.7	33.0
95°	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	43.2	41.4	39.6
97.5°	47.1	47.4	47.6	47.9	47.6	47.4	47.1	46.8	45.7	43.6	41.5
100°	48.0	48.3	48.5	48.8	48.5	48.3	48.0	47.8	46.6	44.5	42.5
102.5°	48.3	48.8	49.3	49.7	49.3	48.8	48.3	47.9	50.8	57.2	63.6
105°	49.6	50.1	50.6	51.1	50.6	50.1	49.6	49.1	71.6	117.3	163.0
107.5°	263.9	229.4	195.0	160.6	195.0	229.4	263.9	298.3	332.3	365.8	399.3
110°	430.3	393.3	356.4	319.5	356.4	393.3	430.3	467.2	489.9	498.4	506.9



TEST NUMBER: P332354

CATALOG NUMBER: S123RDIP-S1000D1195U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	571.5	563.7	555.9	548.1	555.9	563.7	571.5	579.3	583.2	583.0	582.8
115°	680.0	681.1	682.1	683.1	682.1	681.1	680.0	679.0	677.2	674.6	672.0
117.5°	758.3	758.5	758.7	758.9	758.7	758.5	758.3	758.1	756.9	754.9	752.8
120°	810.9	810.9	810.9	810.9	810.9	810.9	810.9	810.9	809.9	807.8	805.8
122.5°	861.4	861.6	861.9	862.1	861.9	861.6	861.4	861.2	860.4	859.0	857.5
125°	932.5	933.1	933.6	934.1	933.6	933.1	932.5	932.0	931.5	931.0	930.5
127.5°	1004.9	1004.4	1003.9	1003.3	1003.9	1004.4	1004.9	1005.4	1005.2	1004.4	1003.6
130°	1049.5	1049.0	1048.5	1048.0	1048.5	1049.0	1049.5	1050.0	1049.8	1048.7	1047.7
132.5°	1091.0	1090.3	1089.6	1088.8	1089.6	1090.3	1091.0	1091.7	1091.6	1090.6	1089.5
135°	1153.7	1152.9	1152.1	1151.4	1152.1	1152.9	1153.7	1154.5	1154.5	1153.7	1152.9
137.5°	1211.7	1211.2	1210.7	1210.1	1210.7	1211.2	1211.7	1212.2	1211.8	1210.6	1209.4
140°	1247.0	1246.5	1246.0	1245.5	1246.0	1246.5	1247.0	1247.5	1247.3	1246.2	1245.2
142.5°	1280.2	1279.4	1278.7	1278.0	1278.7	1279.4	1280.2	1280.9	1280.8	1280.0	1279.2
145°	1327.9	1327.9	1327.9	1327.9	1327.9	1327.9	1327.9	1327.9	1327.7	1327.2	1326.7
147.5°	1368.7	1367.5	1366.3	1365.1	1366.3	1367.5	1368.7	1369.9	1370.2	1369.7	1369.2
150°	1395.3	1394.6	1393.8	1393.0	1393.8	1394.6	1395.3	1396.1	1396.2	1395.7	1395.2
152.5°	1418.9	1417.7	1416.5	1415.3	1416.5	1417.7	1418.9	1420.1	1420.2	1419.3	1418.3
155°	1451.1	1449.6	1448.0	1446.5	1448.0	1449.6	1451.1	1452.6	1452.8	1451.5	1450.2
157.5°	1478.8	1476.7	1474.7	1472.7	1474.7	1476.7	1478.8	1480.8	1481.0	1479.4	1477.9
160°	1494.9	1493.1	1491.2	1489.4	1491.2	1493.1	1494.9	1496.7	1496.8	1495.2	1493.7
162.5°	1510.0	1508.4	1506.8	1505.2	1506.8	1508.4	1510.0	1511.6	1511.6	1509.8	1508.1
165°	1529.7	1527.9	1526.1	1524.3	1526.1	1527.9	1529.7	1531.5	1531.4	1529.3	1527.3
167.5°	1544.2	1542.1	1540.1	1538.0	1540.1	1542.1	1544.2	1546.3	1546.3	1544.2	1542.1
170°	1552.6	1550.5	1548.4	1546.4	1548.4	1550.5	1552.6	1554.6	1554.6	1552.6	1550.5
172.5°	1557.8	1555.6	1553.3	1551.0	1553.3	1555.6	1557.8	1560.1	1560.2	1558.1	1556.1
175°	1564.2	1562.1	1560.1	1558.0	1560.1	1562.1	1564.2	1566.2	1566.4	1564.6	1562.8
177.5°	1566.3	1564.2	1562.1	1560.1	1562.1	1564.2	1566.3	1568.3	1568.5	1566.9	1565.2
180°	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8



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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°	24.3	23.5	23.4	22.2	21.0	19.8	17.5	17.6	17.1	18.7	17.7
90°	28.9	27.9	24.5	21.2	17.8	14.5	11.5	8.9	6.3	3.7	1.2
92.5°	31.4	29.7	27.2	24.7	22.2	19.6	18.7	19.4	20.2	20.9	21.6
95°	37.8	36.0	33.2	30.3	27.5	24.7	28.5	39.1	49.7	60.3	70.9
97.5°	39.5	37.4	56.0	74.6	93.2	111.8	123.4	128.2	132.9	137.7	142.4
100°	40.4	38.3	78.6	118.9	159.2	199.4	217.0	211.8	206.7	201.5	196.3
102.5°	70.0	76.4	120.4	164.4	208.4	252.4	272.6	268.8	265.1	261.4	257.7
105°	208.7	254.4	277.7	300.9	324.1	347.4	357.6	354.7	351.9	349.1	346.2
107.5°	432.8	466.4	462.7	459.0	455.4	451.7	448.7	446.4	444.2	441.9	439.6
110°	515.5	524.0	521.1	518.3	515.5	512.6	510.2	508.1	506.0	504.0	501.9



TEST NUMBER: P332354

CATALOG NUMBER: S123RDIP-S1000D1195U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	582.7	582.5	579.7	576.9	574.0	571.2	568.8	567.0	565.1	563.2	561.4
115°	669.5	666.9	664.6	662.2	659.9	657.6	655.6	654.1	652.5	651.0	649.5
117.5°	750.7	748.7	747.5	746.3	745.1	743.9	742.4	740.5	738.5	736.6	734.7
120°	803.7	801.6	800.9	800.1	799.3	798.6	797.0	794.7	792.4	790.0	787.7
122.5°	856.1	854.6	853.6	852.7	851.7	850.7	849.3	847.3	845.4	843.5	841.6
125°	930.0	929.4	928.4	927.4	926.3	925.3	923.8	921.7	919.6	917.6	915.5
127.5°	1002.8	1001.9	1000.7	999.5	998.2	997.0	995.3	993.3	991.2	989.1	987.1
130°	1046.7	1045.6	1044.6	1043.6	1042.5	1041.5	1039.9	1037.9	1035.8	1033.8	1031.7
132.5°	1088.5	1087.5	1086.6	1085.8	1085.0	1084.1	1082.7	1080.6	1078.6	1076.5	1074.4
135°	1152.1	1151.4	1150.3	1149.3	1148.3	1147.2	1145.9	1144.4	1142.8	1141.3	1139.7
137.5°	1208.1	1206.9	1206.3	1205.8	1205.2	1204.6	1203.4	1201.4	1199.4	1197.5	1195.5
140°	1244.2	1243.1	1242.4	1241.6	1240.8	1240.0	1238.9	1237.3	1235.8	1234.2	1232.7
142.5°	1278.4	1277.5	1276.8	1276.0	1275.2	1274.4	1273.3	1271.7	1270.2	1268.6	1267.1
145°	1326.1	1325.6	1325.1	1324.6	1324.1	1323.6	1322.4	1320.6	1318.8	1317.0	1315.2
147.5°	1368.7	1368.1	1367.6	1367.1	1366.6	1366.1	1365.2	1364.0	1362.9	1361.7	1360.5
150°	1394.7	1394.2	1393.7	1393.1	1392.6	1392.1	1391.5	1390.7	1389.9	1389.1	1388.4
152.5°	1417.4	1416.5	1416.2	1415.9	1415.5	1415.2	1414.9	1414.5	1414.2	1413.8	1413.5
155°	1448.9	1447.6	1447.4	1447.1	1446.8	1446.6	1446.7	1447.2	1447.7	1448.3	1448.8
157.5°	1476.4	1474.8	1475.1	1475.3	1475.6	1475.8	1476.0	1476.0	1476.1	1476.1	1476.2
160°	1492.2	1490.6	1490.9	1491.1	1491.4	1491.6	1491.9	1492.2	1492.4	1492.7	1492.9
162.5°	1506.3	1504.5	1504.8	1505.1	1505.3	1505.6	1506.0	1506.7	1507.4	1508.1	1508.7
165°	1525.2	1523.1	1523.4	1523.6	1523.9	1524.2	1524.7	1525.5	1526.2	1527.0	1527.8
167.5°	1540.1	1538.0	1538.0	1538.0	1538.0	1538.0	1538.5	1539.6	1540.6	1541.6	1542.7
170°	1548.4	1546.4	1546.4	1546.4	1546.4	1546.4	1546.9	1547.9	1549.0	1550.0	1551.0
172.5°	1554.0	1551.9	1551.7	1551.5	1551.3	1551.1	1551.6	1552.9	1554.1	1555.4	1556.6
175°	1561.0	1559.1	1558.9	1558.6	1558.4	1558.1	1558.6	1559.9	1561.2	1562.5	1563.8
177.5°	1563.6	1561.9	1561.7	1561.5	1561.3	1561.1	1561.5	1562.6	1563.6	1564.6	1565.7
180°	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8



TEST NUMBER: P332354

CATALOG NUMBER: S123RDIP-S1000D1195U835-4F0-1E-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°	15.4	12.7	12.7	11.6	12.1	11.7	12.9	12.5	12.7	13.4	12.5
90°	3.7	6.3	8.9	11.5	14.5	17.8	21.2	24.5	27.9	28.9	29.9
92.5°	20.9	20.2	19.4	18.7	19.6	22.2	24.7	27.2	29.7	31.4	33.0
95°	60.3	49.7	39.1	28.5	24.7	27.5	30.3	33.2	36.0	37.8	39.6
97.5°	137.7	132.9	128.2	123.4	111.8	93.2	74.6	56.0	37.4	39.5	41.5
100°	201.5	206.7	211.8	217.0	199.4	159.2	118.9	78.6	38.3	40.4	42.5
102.5°	261.4	265.1	268.8	272.6	252.4	208.4	164.4	120.4	76.4	70.0	63.6
105°	349.1	351.9	354.7	357.6	347.4	324.1	300.9	277.7	254.4	208.7	163.0
107.5°	441.9	444.2	446.4	448.7	451.7	455.4	459.0	462.7	466.4	432.8	399.3
110°	504.0	506.0	508.1	510.2	512.6	515.5	518.3	521.1	524.0	515.5	506.9



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	563.2	565.1	567.0	568.8	571.2	574.0	576.9	579.7	582.5	582.7	582.8
115°	651.0	652.5	654.1	655.6	657.6	659.9	662.2	664.6	666.9	669.5	672.0
117.5°	736.6	738.5	740.5	742.4	743.9	745.1	746.3	747.5	748.7	750.7	752.8
120°	790.0	792.4	794.7	797.0	798.6	799.3	800.1	800.9	801.6	803.7	805.8
122.5°	843.5	845.4	847.3	849.3	850.7	851.7	852.7	853.6	854.6	856.1	857.5
125°	917.6	919.6	921.7	923.8	925.3	926.3	927.4	928.4	929.4	930.0	930.5
127.5°	989.1	991.2	993.3	995.3	997.0	998.2	999.5	1000.7	1001.9	1002.8	1003.6
130°	1033.8	1035.8	1037.9	1039.9	1041.5	1042.5	1043.6	1044.6	1045.6	1046.7	1047.7
132.5°	1076.5	1078.6	1080.6	1082.7	1084.1	1085.0	1085.8	1086.6	1087.5	1088.5	1089.5
135°	1141.3	1142.8	1144.4	1145.9	1147.2	1148.3	1149.3	1150.3	1151.4	1152.1	1152.9
137.5°	1197.5	1199.4	1201.4	1203.4	1204.6	1205.2	1205.8	1206.3	1206.9	1208.1	1209.4
140°	1234.2	1235.8	1237.3	1238.9	1240.0	1240.8	1241.6	1242.4	1243.1	1244.2	1245.2
142.5°	1268.6	1270.2	1271.7	1273.3	1274.4	1275.2	1276.0	1276.8	1277.5	1278.4	1279.2
145°	1317.0	1318.8	1320.6	1322.4	1323.6	1324.1	1324.6	1325.1	1325.6	1326.1	1326.7
147.5°	1361.7	1362.9	1364.0	1365.2	1366.1	1366.6	1367.1	1367.6	1368.1	1368.7	1369.2
150°	1389.1	1389.9	1390.7	1391.5	1392.1	1392.6	1393.1	1393.7	1394.2	1394.7	1395.2
152.5°	1413.8	1414.2	1414.5	1414.9	1415.2	1415.5	1415.9	1416.2	1416.5	1417.4	1418.3
155°	1448.3	1447.7	1447.2	1446.7	1446.6	1446.8	1447.1	1447.4	1447.6	1448.9	1450.2
157.5°	1476.1	1476.1	1476.0	1476.0	1475.8	1475.6	1475.3	1475.1	1474.8	1476.4	1477.9
160°	1492.7	1492.4	1492.2	1491.9	1491.6	1491.4	1491.1	1490.9	1490.6	1492.2	1493.7
162.5°	1508.1	1507.4	1506.7	1506.0	1505.6	1505.3	1505.1	1504.8	1504.5	1506.3	1508.1
165°	1527.0	1526.2	1525.5	1524.7	1524.2	1523.9	1523.6	1523.4	1523.1	1525.2	1527.3
167.5°	1541.6	1540.6	1539.6	1538.5	1538.0	1538.0	1538.0	1538.0	1538.0	1540.1	1542.1
170°	1550.0	1549.0	1547.9	1546.9	1546.4	1546.4	1546.4	1546.4	1546.4	1548.4	1550.5
172.5°	1555.4	1554.1	1552.9	1551.6	1551.1	1551.3	1551.5	1551.7	1551.9	1554.0	1556.1
175°	1562.5	1561.2	1559.9	1558.6	1558.1	1558.4	1558.6	1558.9	1559.1	1561.0	1562.8
177.5°	1564.6	1563.6	1562.6	1561.5	1561.1	1561.3	1561.5	1561.7	1561.9	1563.6	1565.2
180°	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8



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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°	12.7	12.9	12.5	12.6	12.2	13.4	12.4
90°	31.0	32.0	32.8	33.3	33.8	34.3	34.9
92.5°	34.7	36.4	37.3	37.6	38.0	38.3	38.6
95°	41.4	43.2	44.1	44.1	44.1	44.1	44.1
97.5°	43.6	45.7	46.8	47.1	47.4	47.6	47.9
100°	44.5	46.6	47.8	48.0	48.3	48.5	48.8
102.5°	57.2	50.8	47.9	48.3	48.8	49.3	49.7
105°	117.3	71.6	49.1	49.6	50.1	50.6	51.1
107.5°	365.8	332.3	298.3	263.9	229.4	195.0	160.6
110°	498.4	489.9	467.2	430.3	393.3	356.4	319.5



TEST NUMBER: P332354

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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	583.0	583.2	579.3	571.5	563.7	555.9	548.1
115°	674.6	677.2	679.0	680.0	681.1	682.1	683.1
117.5°	754.9	756.9	758.1	758.3	758.5	758.7	758.9
120°	807.8	809.9	810.9	810.9	810.9	810.9	810.9
122.5°	859.0	860.4	861.2	861.4	861.6	861.9	862.1
125°	931.0	931.5	932.0	932.5	933.1	933.6	934.1
127.5°	1004.4	1005.2	1005.4	1004.9	1004.4	1003.9	1003.3
130°	1048.7	1049.8	1050.0	1049.5	1049.0	1048.5	1048.0
132.5°	1090.6	1091.6	1091.7	1091.0	1090.3	1089.6	1088.8
135°	1153.7	1154.5	1154.5	1153.7	1152.9	1152.1	1151.4
137.5°	1210.6	1211.8	1212.2	1211.7	1211.2	1210.7	1210.1
140°	1246.2	1247.3	1247.5	1247.0	1246.5	1246.0	1245.5
142.5°	1280.0	1280.8	1280.9	1280.2	1279.4	1278.7	1278.0
145°	1327.2	1327.7	1327.9	1327.9	1327.9	1327.9	1327.9
147.5°	1369.7	1370.2	1369.9	1368.7	1367.5	1366.3	1365.1
150°	1395.7	1396.2	1396.1	1395.3	1394.6	1393.8	1393.0
152.5°	1419.3	1420.2	1420.1	1418.9	1417.7	1416.5	1415.3
155°	1451.5	1452.8	1452.6	1451.1	1449.6	1448.0	1446.5
157.5°	1479.4	1481.0	1480.8	1478.8	1476.7	1474.7	1472.7
160°	1495.2	1496.8	1496.7	1494.9	1493.1	1491.2	1489.4
162.5°	1509.8	1511.6	1511.6	1510.0	1508.4	1506.8	1505.2
165°	1529.3	1531.4	1531.5	1529.7	1527.9	1526.1	1524.3
167.5°	1544.2	1546.3	1546.3	1544.2	1542.1	1540.1	1538.0
170°	1552.6	1554.6	1554.6	1552.6	1550.5	1548.4	1546.4
172.5°	1558.1	1560.2	1560.1	1557.8	1555.6	1553.3	1551.0
175°	1564.6	1566.4	1566.2	1564.2	1562.1	1560.1	1558.0
177.5°	1566.9	1568.5	1568.3	1566.3	1564.2	1562.1	1560.1
180°	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8

(END OF REPORT)