

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: P332324-840

Luminaire Tested: **S123RDIP-S775D1195U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332324-840
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-S775D1195U840-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 775 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: 7895.4 lumens
Efficiency: N/A
Efficacy: 138.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Indirect

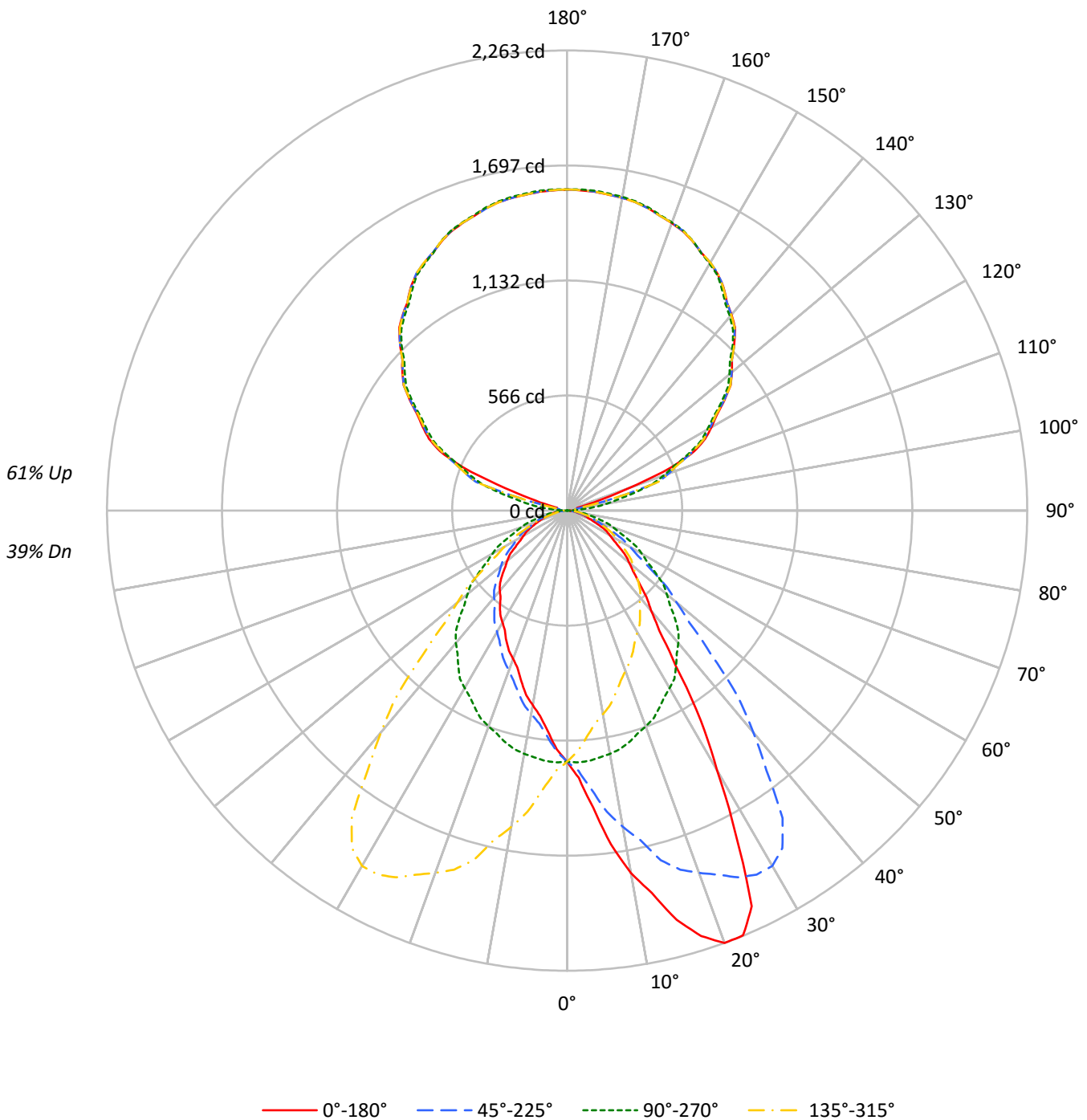
Input Watts (W): 56.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39								
1	96	92	88	85	87	84	80	78	68	66	64	54	53	52	41	40	40	34								
2	88	81	75	70	79	74	69	64	60	57	54	48	46	44	37	35	34	29								
3	80	71	64	59	73	65	59	54	54	49	46	43	40	38	33	31	30	25								
4	73	63	56	50	67	58	51	46	48	43	39	39	35	32	30	28	26	22								
5	68	56	49	43	61	52	45	40	43	38	34	35	31	28	27	25	23	19								
6	62	51	43	37	57	47	40	35	39	34	30	32	28	25	25	22	20	17								
7	58	46	38	33	52	42	35	31	35	30	26	29	25	22	23	20	18	15								
8	53	42	34	29	49	38	32	27	32	27	24	26	23	20	21	18	16	14								
9	50	38	31	26	45	35	29	24	30	25	21	24	21	18	19	17	15	13								
10	46	35	28	23	42	32	26	22	27	22	19	22	19	16	18	15	13	11								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13295	13295	13295	13295
5°	15847	13351	11757	13351
10°	19787	13274	10622	13274
15°	23226	13138	9686	13138
20°	25921	12936	8891	12936
25°	25508	12722	8402	12722
30°	18334	12525	7899	12525
35°	12242	12269	7573	12269
40°	9020	11960	7235	11960
45°	7566	11420	6905	11420
50°	6677	10712	6445	10712
55°	5853	9903	5814	9903
60°	5214	9128	5326	9128
65°	4579	8295	4956	8295
70°	3594	7553	4526	7553
75°	3165	6596	4134	6596
80°	2752	5604	4060	5604
85°	2223	4508	4310	4508



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.5	1.5
10°-20°	379.5	4.8
20°-30°	596.1	7.6
30°-40°	621.9	7.9
40°-50°	532.3	6.7
50°-60°	405.7	5.1
60°-70°	260.0	3.3
70°-80°	125.1	1.6
80°-90°	37.5	0.5
90°-100°	57.4	0.7
100°-110°	273.6	3.5
110°-120°	657.3	8.3
120°-130°	837.0	10.6
130°-140°	894.3	11.3
140°-150°	836.3	10.6
150°-160°	674.6	8.5
160°-170°	435.4	5.5
170°-180°	150.0	1.9
0°-30°	1097.0	13.9
0°-40°	1719.0	21.8
0°-60°	2656.9	33.7
0°-90°	3079.5	39.0
90°-120°	988.3	12.5
90°-150°	3555.9	45.0
90°-180°	4816.0	61.0
0°-180°	7895.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1235	1235	1235	1235	1235	
5°	1467	1236	1088	1236	1467	151
15°	2084	1179	869	1179	2084	591
25°	2148	1071	707	1071	2148	923
35°	932	934	576	934	932	611
45°	497	750	454	750	497	391
55°	312	528	310	528	312	282
65°	180	326	195	326	180	177
75°	76	159	99	159	76	82
85°	18	36	35	36	18	22
90°	35	1	35	1	35	17
95°	44	72	44	72	44	37
105°	52	350	52	350	52	118
115°	690	656	690	656	690	637
125°	943	924	943	924	943	842
135°	1163	1151	1163	1151	1163	897
145°	1341	1328	1341	1328	1341	837
155°	1461	1463	1461	1463	1461	674
165°	1539	1543	1539	1543	1539	435
175°	1573	1579	1573	1579	1573	150
180°	1579	1579	1579	1579	1579	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1
2.5°	1315.5	1317.2	1311.6	1310.8	1304.4	1302.7	1302.7	1293.8	1288.4	1281.2	1277.0
5°	1466.6	1475.1	1470.9	1461.4	1445.5	1441.8	1431.8	1415.9	1398.0	1375.7	1365.1
7.5°	1655.5	1667.1	1662.6	1647.9	1631.3	1617.9	1589.5	1563.2	1526.3	1493.9	1466.2
10°	1810.3	1798.2	1788.7	1774.3	1759.1	1734.1	1704.6	1663.9	1616.8	1579.8	1538.5
12.5°	1926.2	1924.2	1912.2	1897.4	1875.8	1852.2	1815.8	1766.3	1711.5	1658.1	1610.9
15°	2084.2	2087.4	2079.4	2064.1	2033.5	1991.7	1936.7	1916.0	1837.9	1779.7	1721.5
17.5°	2193.5	2192.9	2191.8	2170.6	2139.3	2109.6	2058.6	2004.4	1933.5	1851.6	1773.2
20°	2262.9	2257.7	2258.7	2234.8	2211.6	2177.3	2127.6	2048.8	1990.6	1896.0	1815.0
22.5°	2261.2	2260.2	2264.2	2256.0	2239.1	2212.8	2173.6	2107.2	2033.0	1937.4	1846.3
25°	2147.7	2143.4	2168.3	2175.1	2202.1	2206.9	2195.2	2158.8	2088.4	1990.0	1877.4
27.5°	1797.5	1795.1	1841.2	1899.0	1972.1	2029.0	2084.0	2110.5	2088.4	2018.0	1905.2
30°	1475.1	1524.8	1548.1	1631.6	1724.6	1835.7	1933.0	2025.5	2048.2	2017.6	1925.0
32.5°	1224.8	1268.1	1287.5	1359.2	1445.9	1576.0	1721.9	1852.9	1945.5	1968.9	1913.2
35°	931.6	932.1	976.5	1008.2	1088.6	1222.3	1364.1	1539.6	1714.0	1846.2	1860.0
37.5°	743.4	746.0	772.8	804.5	864.7	935.5	1060.3	1206.2	1407.8	1610.6	1729.6
40°	641.9	646.6	666.7	697.9	741.2	794.7	891.9	1029.5	1197.5	1423.3	1607.8
42.5°	576.7	584.4	594.8	618.8	645.7	695.7	774.4	880.5	1033.4	1246.9	1459.8
45°	497.0	501.2	509.2	520.3	544.6	579.5	632.4	703.7	830.6	1002.5	1215.5
47.5°	438.4	436.2	444.5	453.5	469.7	493.5	529.0	587.2	677.7	815.6	996.3
50°	398.7	398.1	403.9	410.8	426.2	443.6	472.7	516.5	588.4	702.7	868.2
52.5°	361.4	363.5	367.6	376.2	387.2	401.3	427.4	459.0	520.8	619.4	757.3
55°	311.9	313.6	319.3	324.1	332.0	346.3	362.7	389.1	431.4	500.2	613.8
57.5°	270.0	269.3	274.9	276.1	285.1	296.7	309.4	329.9	360.6	411.6	488.2
60°	242.2	240.5	245.3	249.0	253.8	263.3	273.9	294.0	318.3	355.8	421.4
62.5°	216.8	216.0	219.5	223.2	227.1	235.8	244.7	260.1	279.3	311.0	363.0
65°	179.8	181.4	182.9	184.5	186.6	191.9	200.4	211.0	224.2	246.4	283.9
67.5°	141.3	142.9	143.4	146.6	151.2	154.5	159.7	169.1	178.2	197.0	218.3
70°	114.2	113.7	114.2	115.8	121.6	127.4	134.3	141.2	146.9	160.2	178.1
72.5°	98.2	97.1	98.6	98.9	101.7	103.3	107.7	114.1	121.6	130.6	143.5
75°	76.1	76.1	76.1	76.1	78.3	79.3	80.9	82.5	85.1	89.4	98.9
77.5°	56.2	56.4	57.1	57.7	58.1	58.7	59.7	61.2	62.2	64.4	68.6
80°	44.4	44.9	44.4	44.9	44.9	45.9	46.6	48.1	48.7	51.3	52.9
82.5°	33.4	33.1	33.4	33.9	33.9	35.0	35.1	36.3	36.4	37.8	39.4
85°	18.0	17.0	18.0	17.5	18.5	17.5	18.0	19.0	19.0	19.6	21.7
87.5°	11.3	12.0	11.1	11.4	11.3	11.5	11.3	11.1	11.7	11.1	10.9
90°	35.2	34.6	34.1	33.6	33.1	32.3	31.3	30.2	29.2	28.2	24.7
92.5°	39.0	38.7	38.4	38.0	37.7	36.8	35.0	33.3	31.7	30.0	27.5
95°	44.5	44.5	44.5	44.5	44.5	43.6	41.8	40.0	38.2	36.4	33.5
97.5°	48.4	48.1	47.9	47.6	47.3	46.2	44.0	41.9	39.9	37.8	56.6
100°	49.3	49.0	48.8	48.5	48.3	47.1	44.9	42.9	40.8	38.7	79.4
102.5°	50.2	49.8	49.3	48.8	48.4	51.3	57.8	64.2	70.7	77.2	121.6
105°	51.6	51.1	50.6	50.1	49.6	72.3	118.5	164.6	210.8	256.9	280.4
107.5°	162.2	196.9	231.7	266.5	301.2	335.6	369.4	403.2	437.1	471.0	467.3
110°	322.7	359.9	397.2	434.5	471.8	494.7	503.3	511.9	520.6	529.2	526.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	553.5	561.4	569.3	577.1	585.0	589.0	588.8	588.5	588.4	588.2	585.4
115°	689.8	688.8	687.8	686.7	685.7	683.9	681.3	678.6	676.1	673.5	671.2
117.5°	766.4	766.2	766.0	765.8	765.6	764.4	762.3	760.2	758.1	756.1	754.9
120°	818.9	818.9	818.9	818.9	818.9	817.9	815.8	813.7	811.6	809.5	808.8
122.5°	870.6	870.4	870.1	869.9	869.7	868.9	867.5	866.0	864.5	863.0	862.0
125°	943.3	942.8	942.3	941.7	941.2	940.7	940.2	939.7	939.2	938.6	937.6
127.5°	1013.2	1013.8	1014.3	1014.8	1015.3	1015.1	1014.3	1013.5	1012.7	1011.8	1010.6
130°	1058.3	1058.8	1059.3	1059.9	1060.4	1060.2	1059.0	1058.0	1057.0	1055.9	1054.9
132.5°	1099.5	1100.3	1101.1	1101.8	1102.5	1102.4	1101.4	1100.2	1099.2	1098.2	1097.3
135°	1162.8	1163.5	1164.3	1165.1	1165.9	1165.9	1165.1	1164.3	1163.5	1162.8	1161.6
137.5°	1222.0	1222.6	1223.1	1223.7	1224.2	1223.8	1222.5	1221.3	1220.0	1218.8	1218.2
140°	1257.8	1258.3	1258.8	1259.3	1259.8	1259.6	1258.5	1257.5	1256.5	1255.4	1254.7
142.5°	1290.6	1291.3	1292.0	1292.8	1293.5	1293.4	1292.6	1291.8	1291.0	1290.1	1289.4
145°	1341.0	1341.0	1341.0	1341.0	1341.0	1340.8	1340.3	1339.8	1339.2	1338.7	1338.2
147.5°	1378.6	1379.8	1381.0	1382.2	1383.4	1383.7	1383.2	1382.7	1382.2	1381.6	1381.1
150°	1406.7	1407.5	1408.4	1409.1	1409.9	1410.0	1409.5	1409.0	1408.5	1408.0	1407.4
152.5°	1429.3	1430.5	1431.7	1432.9	1434.1	1434.2	1433.3	1432.3	1431.4	1430.5	1430.2
155°	1460.8	1462.3	1463.9	1465.4	1466.9	1467.1	1465.8	1464.5	1463.2	1461.9	1461.7
157.5°	1487.2	1489.2	1491.3	1493.4	1495.4	1495.6	1494.0	1492.5	1491.0	1489.3	1489.7
160°	1504.1	1505.9	1507.8	1509.6	1511.5	1511.6	1510.0	1508.4	1506.9	1505.3	1505.6
162.5°	1520.0	1521.7	1523.3	1524.9	1526.5	1526.5	1524.7	1523.0	1521.2	1519.3	1519.6
165°	1539.3	1541.2	1543.0	1544.8	1546.6	1546.5	1544.4	1542.4	1540.2	1538.1	1538.4
167.5°	1553.2	1555.3	1557.3	1559.4	1561.6	1561.6	1559.4	1557.3	1555.3	1553.2	1553.2
170°	1561.7	1563.7	1565.8	1567.9	1569.9	1569.9	1567.9	1565.8	1563.7	1561.7	1561.7
172.5°	1566.3	1568.6	1570.9	1573.2	1575.5	1575.6	1573.5	1571.5	1569.3	1567.2	1567.0
175°	1573.4	1575.5	1577.5	1579.6	1581.7	1581.9	1580.0	1578.2	1576.4	1574.5	1574.3
177.5°	1575.5	1577.5	1579.6	1581.8	1583.8	1584.0	1582.4	1580.6	1579.0	1577.3	1577.1
180°	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1
2.5°	1275.3	1273.9	1268.1	1261.3	1252.4	1246.5	1241.8	1239.3	1231.7	1222.3	1216.1
5°	1354.0	1338.2	1321.3	1300.6	1281.6	1262.0	1249.9	1235.6	1218.2	1198.6	1184.9
7.5°	1438.5	1407.3	1373.8	1339.3	1305.0	1274.4	1247.4	1224.2	1196.4	1168.3	1148.7
10°	1503.2	1457.6	1410.6	1362.5	1318.6	1277.4	1245.7	1214.5	1181.1	1148.9	1124.6
12.5°	1562.0	1502.1	1447.8	1388.8	1332.6	1283.3	1237.6	1200.9	1160.8	1126.5	1098.7
15°	1636.4	1575.1	1509.4	1419.6	1345.0	1282.6	1227.2	1179.0	1130.4	1088.1	1061.2
17.5°	1706.0	1613.7	1525.6	1450.6	1353.7	1275.8	1208.0	1150.4	1097.1	1052.3	1019.1
20°	1734.7	1645.4	1549.6	1454.0	1358.8	1271.5	1192.8	1129.3	1073.8	1023.1	992.4
22.5°	1752.0	1650.8	1550.0	1447.2	1346.2	1255.5	1177.6	1107.7	1047.6	999.4	961.5
25°	1772.2	1651.7	1540.7	1439.2	1336.1	1237.7	1145.2	1071.2	1006.1	954.8	914.6
27.5°	1785.5	1643.8	1512.6	1399.7	1295.2	1197.2	1112.4	1034.0	968.0	913.7	870.6
30°	1788.1	1637.4	1491.0	1368.9	1262.5	1172.7	1082.8	1007.7	938.0	880.3	840.1
32.5°	1791.5	1621.7	1461.8	1332.0	1223.2	1134.2	1052.8	981.1	909.6	852.8	811.8
35°	1777.6	1613.2	1417.4	1268.4	1159.4	1073.3	999.8	933.7	863.4	808.4	766.6
37.5°	1717.5	1578.7	1371.6	1196.7	1082.8	1003.0	943.1	885.4	821.0	761.6	722.4
40°	1657.0	1544.9	1336.1	1153.2	1034.2	952.2	898.3	851.2	788.8	733.4	691.1
42.5°	1566.9	1498.8	1302.2	1107.4	979.2	900.2	854.7	810.6	755.9	699.5	659.7
45°	1401.6	1410.6	1232.9	1034.7	903.0	823.7	780.9	750.2	701.7	655.1	614.4
47.5°	1194.4	1278.4	1151.7	957.2	822.7	748.3	710.9	684.2	651.4	605.7	568.6
50°	1059.0	1179.0	1086.5	905.1	772.4	698.4	661.5	639.7	611.2	575.2	539.8
52.5°	934.2	1063.2	1007.8	847.2	717.9	650.3	614.1	596.2	573.5	539.7	507.7
55°	761.8	892.5	879.8	759.7	636.0	575.2	547.8	527.7	512.3	487.0	461.6
57.5°	616.3	740.1	746.7	662.5	563.9	503.8	480.2	465.0	455.0	435.9	412.4
60°	524.5	638.1	660.4	596.9	512.3	459.5	436.2	424.0	416.1	400.8	382.8
62.5°	448.4	545.1	570.3	524.6	462.8	413.3	395.2	383.4	378.0	364.8	348.9
65°	343.2	423.5	447.8	422.4	390.2	350.5	335.8	325.7	320.9	313.6	301.8
67.5°	258.0	316.6	343.3	325.4	313.8	288.7	279.2	273.9	269.6	264.6	254.9
70°	207.2	250.6	278.1	273.4	263.9	250.6	243.8	240.0	235.8	231.6	223.1
72.5°	166.6	196.5	222.3	224.7	216.9	214.2	208.2	206.6	204.1	199.0	194.4
75°	110.5	131.1	149.1	155.9	159.2	161.8	159.2	158.6	158.0	153.9	151.2
77.5°	72.4	83.5	94.8	106.5	111.6	115.1	116.0	118.0	116.5	114.3	113.0
80°	55.5	58.2	66.0	76.1	84.0	87.3	89.4	90.4	89.9	89.4	87.3
82.5°	40.3	42.5	46.3	53.3	60.0	65.2	66.6	66.3	67.5	67.8	66.0
85°	21.7	22.2	23.2	24.3	28.0	33.8	35.4	36.5	37.6	37.6	34.3
87.5°	11.0	9.9	10.1	9.5	10.3	10.2	12.2	13.7	14.7	13.5	14.0
90°	21.4	18.0	14.6	11.6	9.0	6.4	3.7	1.2	3.7	6.4	9.0
92.5°	24.9	22.4	19.8	18.9	19.6	20.4	21.1	21.8	21.1	20.4	19.6
95°	30.6	27.8	24.9	28.8	39.5	50.2	60.9	71.6	60.9	50.2	39.5
97.5°	75.3	94.1	112.9	124.6	129.5	134.2	139.1	143.8	139.1	134.2	129.5
100°	120.1	160.8	201.4	219.1	213.9	208.7	203.5	198.2	203.5	208.7	213.9
102.5°	166.0	210.5	254.9	275.3	271.5	267.7	264.0	260.2	264.0	267.7	271.5
105°	303.9	327.3	350.8	361.1	358.2	355.4	352.5	349.6	352.5	355.4	358.2
107.5°	463.5	459.9	456.2	453.1	450.8	448.6	446.3	443.9	446.3	448.6	450.8
110°	523.4	520.6	517.7	515.2	513.1	511.0	509.0	506.9	509.0	511.0	513.1



TEST NUMBER: P332324-840

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	582.6	579.7	576.8	574.4	572.6	570.7	568.8	566.9	568.8	570.7	572.6
115°	668.7	666.4	664.1	662.1	660.6	658.9	657.4	655.9	657.4	658.9	660.6
117.5°	753.7	752.5	751.2	749.7	747.8	745.8	743.9	741.9	743.9	745.8	747.8
120°	808.0	807.2	806.5	804.9	802.5	800.2	797.8	795.5	797.8	800.2	802.5
122.5°	861.1	860.1	859.1	857.7	855.7	853.7	851.8	849.9	851.8	853.7	855.7
125°	936.5	935.4	934.4	932.9	930.8	928.7	926.7	924.5	926.7	928.7	930.8
127.5°	1009.4	1008.0	1006.8	1005.1	1003.1	1001.0	998.9	996.8	998.9	1001.0	1003.1
130°	1053.9	1052.8	1051.8	1050.2	1048.1	1046.0	1044.0	1041.9	1044.0	1046.0	1048.1
132.5°	1096.5	1095.7	1094.8	1093.4	1091.3	1089.2	1087.1	1085.0	1087.1	1089.2	1091.3
135°	1160.6	1159.6	1158.5	1157.2	1155.7	1154.1	1152.6	1150.9	1152.6	1154.1	1155.7
137.5°	1217.7	1217.1	1216.5	1215.3	1213.3	1211.2	1209.3	1207.3	1209.3	1211.2	1213.3
140°	1253.8	1253.0	1252.2	1251.1	1249.5	1248.0	1246.4	1244.9	1246.4	1248.0	1249.5
142.5°	1288.6	1287.8	1287.0	1285.9	1284.2	1282.7	1281.1	1279.6	1281.1	1282.7	1284.2
145°	1337.7	1337.2	1336.7	1335.4	1333.6	1331.8	1330.0	1328.2	1330.0	1331.8	1333.6
147.5°	1380.6	1380.1	1379.6	1378.7	1377.5	1376.3	1375.1	1373.9	1375.1	1376.3	1377.5
150°	1406.8	1406.3	1405.8	1405.2	1404.4	1403.6	1402.8	1402.1	1402.8	1403.6	1404.4
152.5°	1429.9	1429.5	1429.2	1428.9	1428.5	1428.2	1427.7	1427.4	1427.7	1428.2	1428.5
155°	1461.4	1461.1	1460.9	1461.0	1461.5	1462.0	1462.6	1463.1	1462.6	1462.0	1461.5
157.5°	1489.9	1490.2	1490.4	1490.6	1490.6	1490.7	1490.7	1490.8	1490.7	1490.7	1490.6
160°	1505.8	1506.1	1506.3	1506.6	1506.9	1507.1	1507.4	1507.6	1507.4	1507.1	1506.9
162.5°	1519.9	1520.1	1520.5	1520.9	1521.6	1522.3	1523.0	1523.6	1523.0	1522.3	1521.6
165°	1538.6	1538.9	1539.2	1539.7	1540.5	1541.3	1542.1	1542.9	1542.1	1541.3	1540.5
167.5°	1553.2	1553.2	1553.2	1553.7	1554.8	1555.8	1556.8	1557.9	1556.8	1555.8	1554.8
170°	1561.7	1561.7	1561.7	1562.2	1563.2	1564.3	1565.3	1566.3	1565.3	1564.3	1563.2
172.5°	1566.8	1566.6	1566.4	1566.9	1568.2	1569.4	1570.7	1572.0	1570.7	1569.4	1568.2
175°	1574.0	1573.8	1573.5	1574.0	1575.3	1576.6	1577.9	1579.2	1577.9	1576.6	1575.3
177.5°	1576.9	1576.7	1576.5	1576.9	1578.0	1579.0	1580.0	1581.1	1580.0	1579.0	1578.0
180°	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2



TEST NUMBER: P332324-840

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1
2.5°	1214.0	1208.4	1204.7	1196.2	1190.6	1184.8	1178.8	1182.7	1182.2	1181.7	1181.7
5°	1173.3	1161.0	1149.9	1135.7	1126.7	1115.6	1107.1	1106.1	1108.2	1100.8	1096.5
7.5°	1132.9	1116.2	1100.4	1084.7	1068.0	1054.7	1046.3	1042.4	1037.0	1032.5	1027.7
10°	1104.5	1084.9	1069.5	1050.1	1032.1	1016.2	1006.1	999.3	995.5	991.9	985.0
12.5°	1075.3	1056.1	1036.6	1014.5	997.3	979.0	971.5	963.7	956.6	952.5	943.1
15°	1032.6	1007.7	987.1	963.8	944.8	926.9	916.3	900.9	898.8	893.5	884.0
17.5°	989.8	962.8	934.3	917.2	895.6	877.0	860.8	855.7	840.5	834.9	826.6
20°	955.9	931.1	909.4	886.7	855.5	838.0	825.4	818.5	806.3	798.9	793.6
22.5°	926.8	901.5	876.4	849.9	824.2	804.6	795.3	784.6	778.0	767.6	761.8
25°	885.0	857.6	827.5	798.9	780.4	765.6	750.7	741.2	731.7	727.0	716.4
27.5°	836.7	807.9	779.7	758.1	735.4	720.7	707.3	698.8	687.4	679.4	673.6
30°	810.0	776.2	751.8	732.3	703.2	689.4	679.4	668.8	660.4	651.9	646.1
32.5°	779.1	748.2	725.2	700.9	678.6	663.7	650.7	641.4	634.1	626.1	620.3
35°	730.6	704.8	681.0	656.6	640.3	624.9	609.7	601.7	594.8	587.4	582.1
37.5°	686.9	662.7	640.1	617.0	596.7	584.2	571.9	565.8	556.5	551.6	546.1
40°	659.8	636.0	611.7	589.6	568.4	558.9	547.8	538.8	530.3	526.6	520.8
42.5°	630.3	606.4	585.9	562.0	544.7	531.8	521.5	511.7	505.3	500.0	496.7
45°	586.3	565.2	545.1	521.3	504.9	493.8	482.2	473.2	467.4	463.7	457.9
47.5°	543.7	522.6	502.2	481.4	465.5	452.9	441.3	435.0	427.3	422.7	418.9
50°	512.8	493.8	472.1	453.1	437.3	424.5	415.1	407.1	400.2	394.5	391.8
52.5°	484.5	464.2	445.5	427.8	411.0	396.7	388.0	379.6	374.5	367.8	364.7
55°	437.8	418.2	402.3	384.9	368.5	356.4	345.8	338.4	333.1	325.7	321.4
57.5°	393.8	376.4	357.4	342.2	325.4	315.1	306.3	296.3	289.8	284.1	279.9
60°	364.3	344.2	327.8	313.6	298.7	285.5	277.6	269.6	262.8	256.9	253.3
62.5°	333.5	315.9	300.3	284.8	271.2	259.7	250.5	243.9	237.8	234.1	230.5
65°	286.0	272.3	256.4	243.8	231.1	222.6	215.2	209.3	205.1	202.5	199.3
67.5°	242.5	229.1	215.3	202.8	194.4	187.9	183.1	178.0	175.9	172.6	170.5
70°	214.1	200.4	188.2	178.7	170.3	165.5	162.3	158.6	156.5	152.3	150.2
72.5°	183.3	173.3	164.5	156.7	150.0	145.6	141.6	137.0	133.7	129.0	126.9
75°	144.3	135.3	128.5	123.2	119.0	113.1	107.3	102.6	101.0	99.4	98.9
77.5°	106.9	101.2	96.2	91.8	86.5	82.3	81.0	80.0	79.6	78.8	78.8
80°	84.0	78.8	75.0	69.8	66.7	66.7	66.7	65.5	66.0	66.0	66.0
82.5°	62.5	57.7	55.6	53.7	53.1	53.5	53.5	53.7	53.4	54.2	53.8
85°	32.2	32.8	33.8	33.3	33.8	33.8	34.9	34.3	34.9	33.8	34.9
87.5°	14.1	16.1	17.2	18.3	19.3	19.6	20.2	20.4	21.1	21.3	21.4
90°	11.6	14.6	18.0	21.4	24.7	28.2	29.2	30.2	31.3	32.3	33.1
92.5°	18.9	19.8	22.4	24.9	27.5	30.0	31.7	33.3	35.0	36.8	37.7
95°	28.8	24.9	27.8	30.6	33.5	36.4	38.2	40.0	41.8	43.6	44.5
97.5°	124.6	112.9	94.1	75.3	56.6	37.8	39.9	41.9	44.0	46.2	47.3
100°	219.1	201.4	160.8	120.1	79.4	38.7	40.8	42.9	44.9	47.1	48.3
102.5°	275.3	254.9	210.5	166.0	121.6	77.2	70.7	64.2	57.8	51.3	48.4
105°	361.1	350.8	327.3	303.9	280.4	256.9	210.8	164.6	118.5	72.3	49.6
107.5°	453.1	456.2	459.9	463.5	467.3	471.0	437.1	403.2	369.4	335.6	301.2
110°	515.2	517.7	520.6	523.4	526.2	529.2	520.6	511.9	503.3	494.7	471.8



TEST NUMBER: P332324-840

CATALOG NUMBER: S123RDIP-S775D1195U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	574.4	576.8	579.7	582.6	585.4	588.2	588.4	588.5	588.8	589.0	585.0
115°	662.1	664.1	666.4	668.7	671.2	673.5	676.1	678.6	681.3	683.9	685.7
117.5°	749.7	751.2	752.5	753.7	754.9	756.1	758.1	760.2	762.3	764.4	765.6
120°	804.9	806.5	807.2	808.0	808.8	809.5	811.6	813.7	815.8	817.9	818.9
122.5°	857.7	859.1	860.1	861.1	862.0	863.0	864.5	866.0	867.5	868.9	869.7
125°	932.9	934.4	935.4	936.5	937.6	938.6	939.2	939.7	940.2	940.7	941.2
127.5°	1005.1	1006.8	1008.0	1009.4	1010.6	1011.8	1012.7	1013.5	1014.3	1015.1	1015.3
130°	1050.2	1051.8	1052.8	1053.9	1054.9	1055.9	1057.0	1058.0	1059.0	1060.2	1060.4
132.5°	1093.4	1094.8	1095.7	1096.5	1097.3	1098.2	1099.2	1100.2	1101.4	1102.4	1102.5
135°	1157.2	1158.5	1159.6	1160.6	1161.6	1162.8	1163.5	1164.3	1165.1	1165.9	1165.9
137.5°	1215.3	1216.5	1217.1	1217.7	1218.2	1218.8	1220.0	1221.3	1222.5	1223.8	1224.2
140°	1251.1	1252.2	1253.0	1253.8	1254.7	1255.4	1256.5	1257.5	1258.5	1259.6	1259.8
142.5°	1285.9	1287.0	1287.8	1288.6	1289.4	1290.1	1291.0	1291.8	1292.6	1293.4	1293.5
145°	1335.4	1336.7	1337.2	1337.7	1338.2	1338.7	1339.2	1339.8	1340.3	1340.8	1341.0
147.5°	1378.7	1379.6	1380.1	1380.6	1381.1	1381.6	1382.2	1382.7	1383.2	1383.7	1383.4
150°	1405.2	1405.8	1406.3	1406.8	1407.4	1408.0	1408.5	1409.0	1409.5	1410.0	1409.9
152.5°	1428.9	1429.2	1429.5	1429.9	1430.2	1430.5	1431.4	1432.3	1433.3	1434.2	1434.1
155°	1461.0	1460.9	1461.1	1461.4	1461.7	1461.9	1463.2	1464.5	1465.8	1467.1	1466.9
157.5°	1490.6	1490.4	1490.2	1489.9	1489.7	1489.3	1491.0	1492.5	1494.0	1495.6	1495.4
160°	1506.6	1506.3	1506.1	1505.8	1505.6	1505.3	1506.9	1508.4	1510.0	1511.6	1511.5
162.5°	1520.9	1520.5	1520.1	1519.9	1519.6	1519.3	1521.2	1523.0	1524.7	1526.5	1526.5
165°	1539.7	1539.2	1538.9	1538.6	1538.4	1538.1	1540.2	1542.4	1544.4	1546.5	1546.6
167.5°	1553.7	1553.2	1553.2	1553.2	1553.2	1553.2	1555.3	1557.3	1559.4	1561.6	1561.6
170°	1562.2	1561.7	1561.7	1561.7	1561.7	1561.7	1563.7	1565.8	1567.9	1569.9	1569.9
172.5°	1566.9	1566.4	1566.6	1566.8	1567.0	1567.2	1569.3	1571.5	1573.5	1575.6	1575.5
175°	1574.0	1573.5	1573.8	1574.0	1574.3	1574.5	1576.4	1578.2	1580.0	1581.9	1581.7
177.5°	1576.9	1576.5	1576.7	1576.9	1577.1	1577.3	1579.0	1580.6	1582.4	1584.0	1583.8
180°	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2



TEST NUMBER: P332324-840

CATALOG NUMBER: S123RDIP-S775D1195U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1
2.5°	1176.7	1176.3	1176.7	1175.0	1176.7	1176.3	1176.7	1181.7	1181.7	1182.2	1182.7
5°	1095.0	1094.4	1092.9	1088.1	1092.9	1094.4	1095.0	1096.5	1100.8	1108.2	1106.1
7.5°	1023.6	1022.9	1018.2	1018.3	1018.2	1022.9	1023.6	1027.7	1032.5	1037.0	1042.4
10°	981.3	981.8	975.5	971.8	975.5	981.8	981.3	985.0	991.9	995.5	999.3
12.5°	940.3	937.9	932.7	928.7	932.7	937.9	940.3	943.1	952.5	956.6	963.7
15°	886.2	880.8	868.2	869.2	868.2	880.8	886.2	884.0	893.5	898.8	900.9
17.5°	822.3	818.5	818.2	810.8	818.2	818.5	822.3	826.6	834.9	840.5	855.7
20°	785.2	782.5	783.6	776.2	783.6	782.5	785.2	793.6	798.9	806.3	818.5
22.5°	756.0	753.4	748.9	746.6	748.9	753.4	756.0	761.8	767.6	778.0	784.6
25°	713.3	709.0	704.8	707.4	704.8	709.0	713.3	716.4	727.0	731.7	741.2
27.5°	670.6	667.3	663.1	662.6	663.1	667.3	670.6	673.6	679.4	687.4	698.8
30°	643.5	640.3	638.1	635.5	638.1	640.3	643.5	646.1	651.9	660.4	668.8
32.5°	615.9	615.3	611.5	611.0	611.5	615.3	615.9	620.3	626.1	634.1	641.4
35°	580.0	576.8	575.7	576.3	575.7	576.8	580.0	582.1	587.4	594.8	601.7
37.5°	545.8	541.6	539.7	537.9	539.7	541.6	545.8	546.1	551.6	556.5	565.8
40°	521.3	517.1	516.0	514.9	516.0	517.1	521.3	520.8	526.6	530.3	538.8
42.5°	493.8	492.1	491.5	489.6	491.5	492.1	493.8	496.7	500.0	505.3	511.7
45°	456.3	455.8	452.6	453.6	452.6	455.8	456.3	457.9	463.7	467.4	473.2
47.5°	416.8	414.4	412.2	413.6	412.2	414.4	416.8	418.9	422.7	427.3	435.0
50°	389.7	388.6	383.8	384.9	383.8	388.6	389.7	391.8	394.5	400.2	407.1
52.5°	362.6	358.6	356.8	356.2	356.8	358.6	362.6	364.7	367.8	374.5	379.6
55°	317.8	313.0	310.8	309.8	310.8	313.0	317.8	321.4	325.7	333.1	338.4
57.5°	273.8	272.5	270.8	272.0	270.8	272.5	273.8	279.9	284.1	289.8	296.3
60°	247.9	247.9	247.9	247.4	247.9	247.9	247.9	253.3	256.9	262.8	269.6
62.5°	228.1	226.8	226.4	227.1	226.4	226.8	228.1	230.5	234.1	237.8	243.9
65°	197.7	197.2	195.1	194.6	195.1	197.2	197.7	199.3	202.5	205.1	209.3
67.5°	169.1	167.1	166.5	165.8	166.5	167.1	169.1	170.5	172.6	175.9	178.0
70°	147.5	146.4	143.3	143.8	143.3	146.4	147.5	150.2	152.3	156.5	158.6
72.5°	124.2	123.2	122.6	121.8	122.6	123.2	124.2	126.9	129.0	133.7	137.0
75°	98.4	97.9	97.3	99.4	97.3	97.9	98.4	98.9	99.4	101.0	102.6
77.5°	78.8	78.8	79.1	78.3	79.1	78.8	78.8	78.8	78.8	79.6	80.0
80°	66.0	66.0	65.5	65.5	65.5	66.0	66.0	66.0	66.0	66.0	65.5
82.5°	53.0	53.4	53.7	52.9	53.7	53.4	53.0	53.8	54.2	53.4	53.7
85°	34.9	34.3	35.4	34.9	35.4	34.3	34.9	34.9	33.8	34.9	34.3
87.5°	22.4	21.6	21.7	22.2	21.7	21.6	22.4	21.4	21.3	21.1	20.4
90°	33.6	34.1	34.6	35.2	34.6	34.1	33.6	33.1	32.3	31.3	30.2
92.5°	38.0	38.4	38.7	39.0	38.7	38.4	38.0	37.7	36.8	35.0	33.3
95°	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	43.6	41.8	40.0
97.5°	47.6	47.9	48.1	48.4	48.1	47.9	47.6	47.3	46.2	44.0	41.9
100°	48.5	48.8	49.0	49.3	49.0	48.8	48.5	48.3	47.1	44.9	42.9
102.5°	48.8	49.3	49.8	50.2	49.8	49.3	48.8	48.4	51.3	57.8	64.2
105°	50.1	50.6	51.1	51.6	51.1	50.6	50.1	49.6	72.3	118.5	164.6
107.5°	266.5	231.7	196.9	162.2	196.9	231.7	266.5	301.2	335.6	369.4	403.2
110°	434.5	397.2	359.9	322.7	359.9	397.2	434.5	471.8	494.7	503.3	511.9



TEST NUMBER: P332324-840

CATALOG NUMBER: S123RDIP-S775D1195U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	577.1	569.3	561.4	553.5	561.4	569.3	577.1	585.0	589.0	588.8	588.5
115°	686.7	687.8	688.8	689.8	688.8	687.8	686.7	685.7	683.9	681.3	678.6
117.5°	765.8	766.0	766.2	766.4	766.2	766.0	765.8	765.6	764.4	762.3	760.2
120°	818.9	818.9	818.9	818.9	818.9	818.9	818.9	818.9	817.9	815.8	813.7
122.5°	869.9	870.1	870.4	870.6	870.4	870.1	869.9	869.7	868.9	867.5	866.0
125°	941.7	942.3	942.8	943.3	942.8	942.3	941.7	941.2	940.7	940.2	939.7
127.5°	1014.8	1014.3	1013.8	1013.2	1013.8	1014.3	1014.8	1015.3	1015.1	1014.3	1013.5
130°	1059.9	1059.3	1058.8	1058.3	1058.8	1059.3	1059.9	1060.4	1060.2	1059.0	1058.0
132.5°	1101.8	1101.1	1100.3	1099.5	1100.3	1101.1	1101.8	1102.5	1102.4	1101.4	1100.2
135°	1165.1	1164.3	1163.5	1162.8	1163.5	1164.3	1165.1	1165.9	1165.9	1165.1	1164.3
137.5°	1223.7	1223.1	1222.6	1222.0	1222.6	1223.1	1223.7	1224.2	1223.8	1222.5	1221.3
140°	1259.3	1258.8	1258.3	1257.8	1258.3	1258.8	1259.3	1259.8	1259.6	1258.5	1257.5
142.5°	1292.8	1292.0	1291.3	1290.6	1291.3	1292.0	1292.8	1293.5	1293.4	1292.6	1291.8
145°	1341.0	1341.0	1341.0	1341.0	1341.0	1341.0	1341.0	1341.0	1340.8	1340.3	1339.8
147.5°	1382.2	1381.0	1379.8	1378.6	1379.8	1381.0	1382.2	1383.4	1383.7	1383.2	1382.7
150°	1409.1	1408.4	1407.5	1406.7	1407.5	1408.4	1409.1	1409.9	1410.0	1409.5	1409.0
152.5°	1432.9	1431.7	1430.5	1429.3	1430.5	1431.7	1432.9	1434.1	1434.2	1433.3	1432.3
155°	1465.4	1463.9	1462.3	1460.8	1462.3	1463.9	1465.4	1466.9	1467.1	1465.8	1464.5
157.5°	1493.4	1491.3	1489.2	1487.2	1489.2	1491.3	1493.4	1495.4	1495.6	1494.0	1492.5
160°	1509.6	1507.8	1505.9	1504.1	1505.9	1507.8	1509.6	1511.5	1511.6	1510.0	1508.4
162.5°	1524.9	1523.3	1521.7	1520.0	1521.7	1523.3	1524.9	1526.5	1526.5	1524.7	1523.0
165°	1544.8	1543.0	1541.2	1539.3	1541.2	1543.0	1544.8	1546.6	1546.5	1544.4	1542.4
167.5°	1559.4	1557.3	1555.3	1553.2	1555.3	1557.3	1559.4	1561.6	1561.6	1559.4	1557.3
170°	1567.9	1565.8	1563.7	1561.7	1563.7	1565.8	1567.9	1569.9	1569.9	1567.9	1565.8
172.5°	1573.2	1570.9	1568.6	1566.3	1568.6	1570.9	1573.2	1575.5	1575.6	1573.5	1571.5
175°	1579.6	1577.5	1575.5	1573.4	1575.5	1577.5	1579.6	1581.7	1581.9	1580.0	1578.2
177.5°	1581.8	1579.6	1577.5	1575.5	1577.5	1579.6	1581.8	1583.8	1584.0	1582.4	1580.6
180°	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2



TEST NUMBER: P332324-840

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1
2.5°	1178.8	1184.8	1190.6	1196.2	1204.7	1208.4	1214.0	1216.1	1222.3	1231.7	1239.3
5°	1107.1	1115.6	1126.7	1135.7	1149.9	1161.0	1173.3	1184.9	1198.6	1218.2	1235.6
7.5°	1046.3	1054.7	1068.0	1084.7	1100.4	1116.2	1132.9	1148.7	1168.3	1196.4	1224.2
10°	1006.1	1016.2	1032.1	1050.1	1069.5	1084.9	1104.5	1124.6	1148.9	1181.1	1214.5
12.5°	971.5	979.0	997.3	1014.5	1036.6	1056.1	1075.3	1098.7	1126.5	1160.8	1200.9
15°	916.3	926.9	944.8	963.8	987.1	1007.7	1032.6	1061.2	1088.1	1130.4	1179.0
17.5°	860.8	877.0	895.6	917.2	934.3	962.8	989.8	1019.1	1052.3	1097.1	1150.4
20°	825.4	838.0	855.5	886.7	909.4	931.1	955.9	992.4	1023.1	1073.8	1129.3
22.5°	795.3	804.6	824.2	849.9	876.4	901.5	926.8	961.5	999.4	1047.6	1107.7
25°	750.7	765.6	780.4	798.9	827.5	857.6	885.0	914.6	954.8	1006.1	1071.2
27.5°	707.3	720.7	735.4	758.1	779.7	807.9	836.7	870.6	913.7	968.0	1034.0
30°	679.4	689.4	703.2	732.3	751.8	776.2	810.0	840.1	880.3	938.0	1007.7
32.5°	650.7	663.7	678.6	700.9	725.2	748.2	779.1	811.8	852.8	909.6	981.1
35°	609.7	624.9	640.3	656.6	681.0	704.8	730.6	766.6	808.4	863.4	933.7
37.5°	571.9	584.2	596.7	617.0	640.1	662.7	686.9	722.4	761.6	821.0	885.4
40°	547.8	558.9	568.4	589.6	611.7	636.0	659.8	691.1	733.4	788.8	851.2
42.5°	521.5	531.8	544.7	562.0	585.9	606.4	630.3	659.7	699.5	755.9	810.6
45°	482.2	493.8	504.9	521.3	545.1	565.2	586.3	614.4	655.1	701.7	750.2
47.5°	441.3	452.9	465.5	481.4	502.2	522.6	543.7	568.6	605.7	651.4	684.2
50°	415.1	424.5	437.3	453.1	472.1	493.8	512.8	539.8	575.2	611.2	639.7
52.5°	388.0	396.7	411.0	427.8	445.5	464.2	484.5	507.7	539.7	573.5	596.2
55°	345.8	356.4	368.5	384.9	402.3	418.2	437.8	461.6	487.0	512.3	527.7
57.5°	306.3	315.1	325.4	342.2	357.4	376.4	393.8	412.4	435.9	455.0	465.0
60°	277.6	285.5	298.7	313.6	327.8	344.2	364.3	382.8	400.8	416.1	424.0
62.5°	250.5	259.7	271.2	284.8	300.3	315.9	333.5	348.9	364.8	378.0	383.4
65°	215.2	222.6	231.1	243.8	256.4	272.3	286.0	301.8	313.6	320.9	325.7
67.5°	183.1	187.9	194.4	202.8	215.3	229.1	242.5	254.9	264.6	269.6	273.9
70°	162.3	165.5	170.3	178.7	188.2	200.4	214.1	223.1	231.6	235.8	240.0
72.5°	141.6	145.6	150.0	156.7	164.5	173.3	183.3	194.4	199.0	204.1	206.6
75°	107.3	113.1	119.0	123.2	128.5	135.3	144.3	151.2	153.9	158.0	158.6
77.5°	81.0	82.3	86.5	91.8	96.2	101.2	106.9	113.0	114.3	116.5	118.0
80°	66.7	66.7	66.7	69.8	75.0	78.8	84.0	87.3	89.4	89.9	90.4
82.5°	53.5	53.5	53.1	53.7	55.6	57.7	62.5	66.0	67.8	67.5	66.3
85°	34.9	33.8	33.8	33.3	33.8	32.8	32.2	34.3	37.6	37.6	36.5
87.5°	20.2	19.6	19.3	18.3	17.2	16.1	14.1	14.0	13.5	14.7	13.7
90°	29.2	28.2	24.7	21.4	18.0	14.6	11.6	9.0	6.4	3.7	1.2
92.5°	31.7	30.0	27.5	24.9	22.4	19.8	18.9	19.6	20.4	21.1	21.8
95°	38.2	36.4	33.5	30.6	27.8	24.9	28.8	39.5	50.2	60.9	71.6
97.5°	39.9	37.8	56.6	75.3	94.1	112.9	124.6	129.5	134.2	139.1	143.8
100°	40.8	38.7	79.4	120.1	160.8	201.4	219.1	213.9	208.7	203.5	198.2
102.5°	70.7	77.2	121.6	166.0	210.5	254.9	275.3	271.5	267.7	264.0	260.2
105°	210.8	256.9	280.4	303.9	327.3	350.8	361.1	358.2	355.4	352.5	349.6
107.5°	437.1	471.0	467.3	463.5	459.9	456.2	453.1	450.8	448.6	446.3	443.9
110°	520.6	529.2	526.2	523.4	520.6	517.7	515.2	513.1	511.0	509.0	506.9



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CATALOG NUMBER: S123RDIP-S775D1195U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	588.4	588.2	585.4	582.6	579.7	576.8	574.4	572.6	570.7	568.8	566.9
115°	676.1	673.5	671.2	668.7	666.4	664.1	662.1	660.6	658.9	657.4	655.9
117.5°	758.1	756.1	754.9	753.7	752.5	751.2	749.7	747.8	745.8	743.9	741.9
120°	811.6	809.5	808.8	808.0	807.2	806.5	804.9	802.5	800.2	797.8	795.5
122.5°	864.5	863.0	862.0	861.1	860.1	859.1	857.7	855.7	853.7	851.8	849.9
125°	939.2	938.6	937.6	936.5	935.4	934.4	932.9	930.8	928.7	926.7	924.5
127.5°	1012.7	1011.8	1010.6	1009.4	1008.0	1006.8	1005.1	1003.1	1001.0	998.9	996.8
130°	1057.0	1055.9	1054.9	1053.9	1052.8	1051.8	1050.2	1048.1	1046.0	1044.0	1041.9
132.5°	1099.2	1098.2	1097.3	1096.5	1095.7	1094.8	1093.4	1091.3	1089.2	1087.1	1085.0
135°	1163.5	1162.8	1161.6	1160.6	1159.6	1158.5	1157.2	1155.7	1154.1	1152.6	1150.9
137.5°	1220.0	1218.8	1218.2	1217.7	1217.1	1216.5	1215.3	1213.3	1211.2	1209.3	1207.3
140°	1256.5	1255.4	1254.7	1253.8	1253.0	1252.2	1251.1	1249.5	1248.0	1246.4	1244.9
142.5°	1291.0	1290.1	1289.4	1288.6	1287.8	1287.0	1285.9	1284.2	1282.7	1281.1	1279.6
145°	1339.2	1338.7	1338.2	1337.7	1337.2	1336.7	1335.4	1333.6	1331.8	1330.0	1328.2
147.5°	1382.2	1381.6	1381.1	1380.6	1380.1	1379.6	1378.7	1377.5	1376.3	1375.1	1373.9
150°	1408.5	1408.0	1407.4	1406.8	1406.3	1405.8	1405.2	1404.4	1403.6	1402.8	1402.1
152.5°	1431.4	1430.5	1430.2	1429.9	1429.5	1429.2	1428.9	1428.5	1428.2	1427.7	1427.4
155°	1463.2	1461.9	1461.7	1461.4	1461.1	1460.9	1461.0	1461.5	1462.0	1462.6	1463.1
157.5°	1491.0	1489.3	1489.7	1489.9	1490.2	1490.4	1490.6	1490.6	1490.7	1490.7	1490.8
160°	1506.9	1505.3	1505.6	1505.8	1506.1	1506.3	1506.6	1506.9	1507.1	1507.4	1507.6
162.5°	1521.2	1519.3	1519.6	1519.9	1520.1	1520.5	1520.9	1521.6	1522.3	1523.0	1523.6
165°	1540.2	1538.1	1538.4	1538.6	1538.9	1539.2	1539.7	1540.5	1541.3	1542.1	1542.9
167.5°	1555.3	1553.2	1553.2	1553.2	1553.2	1553.2	1553.7	1554.8	1555.8	1556.8	1557.9
170°	1563.7	1561.7	1561.7	1561.7	1561.7	1561.7	1562.2	1563.2	1564.3	1565.3	1566.3
172.5°	1569.3	1567.2	1567.0	1566.8	1566.6	1566.4	1566.9	1568.2	1569.4	1570.7	1572.0
175°	1576.4	1574.5	1574.3	1574.0	1573.8	1573.5	1574.0	1575.3	1576.6	1577.9	1579.2
177.5°	1579.0	1577.3	1577.1	1576.9	1576.7	1576.5	1576.9	1578.0	1579.0	1580.0	1581.1
180°	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2



TEST NUMBER: P332324-840

CATALOG NUMBER: S123RDIP-S775D1195U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1
2.5°	1241.8	1246.5	1252.4	1261.3	1268.1	1273.9	1275.3	1277.0	1281.2	1288.4	1293.8
5°	1249.9	1262.0	1281.6	1300.6	1321.3	1338.2	1354.0	1365.1	1375.7	1398.0	1415.9
7.5°	1247.4	1274.4	1305.0	1339.3	1373.8	1407.3	1438.5	1466.2	1493.9	1526.3	1563.2
10°	1245.7	1277.4	1318.6	1362.5	1410.6	1457.6	1503.2	1538.5	1579.8	1616.8	1663.9
12.5°	1237.6	1283.3	1332.6	1388.8	1447.8	1502.1	1562.0	1610.9	1658.1	1711.5	1766.3
15°	1227.2	1282.6	1345.0	1419.6	1509.4	1575.1	1636.4	1721.5	1779.7	1837.9	1916.0
17.5°	1208.0	1275.8	1353.7	1450.6	1525.6	1613.7	1706.0	1773.2	1851.6	1933.5	2004.4
20°	1192.8	1271.5	1358.8	1454.0	1549.6	1645.4	1734.7	1815.0	1896.0	1990.6	2048.8
22.5°	1177.6	1255.5	1346.2	1447.2	1550.0	1650.8	1752.0	1846.3	1937.4	2033.0	2107.2
25°	1145.2	1237.7	1336.1	1439.2	1540.7	1651.7	1772.2	1877.4	1990.0	2088.4	2158.8
27.5°	1112.4	1197.2	1295.2	1399.7	1512.6	1643.8	1785.5	1905.2	2018.0	2088.4	2110.5
30°	1082.8	1172.7	1262.5	1368.9	1491.0	1637.4	1788.1	1925.0	2017.6	2048.2	2025.5
32.5°	1052.8	1134.2	1223.2	1332.0	1461.8	1621.7	1791.5	1913.2	1968.9	1945.5	1852.9
35°	999.8	1073.3	1159.4	1268.4	1417.4	1613.2	1777.6	1860.0	1846.2	1714.0	1539.6
37.5°	943.1	1003.0	1082.8	1196.7	1371.6	1578.7	1717.5	1729.6	1610.6	1407.8	1206.2
40°	898.3	952.2	1034.2	1153.2	1336.1	1544.9	1657.0	1607.8	1423.3	1197.5	1029.5
42.5°	854.7	900.2	979.2	1107.4	1302.2	1498.8	1566.9	1459.8	1246.9	1033.4	880.5
45°	780.9	823.7	903.0	1034.7	1232.9	1410.6	1401.6	1215.5	1002.5	830.6	703.7
47.5°	710.9	748.3	822.7	957.2	1151.7	1278.4	1194.4	996.3	815.6	677.7	587.2
50°	661.5	698.4	772.4	905.1	1086.5	1179.0	1059.0	868.2	702.7	588.4	516.5
52.5°	614.1	650.3	717.9	847.2	1007.8	1063.2	934.2	757.3	619.4	520.8	459.0
55°	547.8	575.2	636.0	759.7	879.8	892.5	761.8	613.8	500.2	431.4	389.1
57.5°	480.2	503.8	563.9	662.5	746.7	740.1	616.3	488.2	411.6	360.6	329.9
60°	436.2	459.5	512.3	596.9	660.4	638.1	524.5	421.4	355.8	318.3	294.0
62.5°	395.2	413.3	462.8	524.6	570.3	545.1	448.4	363.0	311.0	279.3	260.1
65°	335.8	350.5	390.2	422.4	447.8	423.5	343.2	283.9	246.4	224.2	211.0
67.5°	279.2	288.7	313.8	325.4	343.3	316.6	258.0	218.3	197.0	178.2	169.1
70°	243.8	250.6	263.9	273.4	278.1	250.6	207.2	178.1	160.2	146.9	141.2
72.5°	208.2	214.2	216.9	224.7	222.3	196.5	166.6	143.5	130.6	121.6	114.1
75°	159.2	161.8	159.2	155.9	149.1	131.1	110.5	98.9	89.4	85.1	82.5
77.5°	116.0	115.1	111.6	106.5	94.8	83.5	72.4	68.6	64.4	62.2	61.2
80°	89.4	87.3	84.0	76.1	66.0	58.2	55.5	52.9	51.3	48.7	48.1
82.5°	66.6	65.2	60.0	53.3	46.3	42.5	40.3	39.4	37.8	36.4	36.3
85°	35.4	33.8	28.0	24.3	23.2	22.2	21.7	21.7	19.6	19.0	19.0
87.5°	12.2	10.2	10.3	9.5	10.1	9.9	11.0	10.9	11.1	11.7	11.1
90°	3.7	6.4	9.0	11.6	14.6	18.0	21.4	24.7	28.2	29.2	30.2
92.5°	21.1	20.4	19.6	18.9	19.8	22.4	24.9	27.5	30.0	31.7	33.3
95°	60.9	50.2	39.5	28.8	24.9	27.8	30.6	33.5	36.4	38.2	40.0
97.5°	139.1	134.2	129.5	124.6	112.9	94.1	75.3	56.6	37.8	39.9	41.9
100°	203.5	208.7	213.9	219.1	201.4	160.8	120.1	79.4	38.7	40.8	42.9
102.5°	264.0	267.7	271.5	275.3	254.9	210.5	166.0	121.6	77.2	70.7	64.2
105°	352.5	355.4	358.2	361.1	350.8	327.3	303.9	280.4	256.9	210.8	164.6
107.5°	446.3	448.6	450.8	453.1	456.2	459.9	463.5	467.3	471.0	437.1	403.2
110°	509.0	511.0	513.1	515.2	517.7	520.6	523.4	526.2	529.2	520.6	511.9



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	568.8	570.7	572.6	574.4	576.8	579.7	582.6	585.4	588.2	588.4	588.5
115°	657.4	658.9	660.6	662.1	664.1	666.4	668.7	671.2	673.5	676.1	678.6
117.5°	743.9	745.8	747.8	749.7	751.2	752.5	753.7	754.9	756.1	758.1	760.2
120°	797.8	800.2	802.5	804.9	806.5	807.2	808.0	808.8	809.5	811.6	813.7
122.5°	851.8	853.7	855.7	857.7	859.1	860.1	861.1	862.0	863.0	864.5	866.0
125°	926.7	928.7	930.8	932.9	934.4	935.4	936.5	937.6	938.6	939.2	939.7
127.5°	998.9	1001.0	1003.1	1005.1	1006.8	1008.0	1009.4	1010.6	1011.8	1012.7	1013.5
130°	1044.0	1046.0	1048.1	1050.2	1051.8	1052.8	1053.9	1054.9	1055.9	1057.0	1058.0
132.5°	1087.1	1089.2	1091.3	1093.4	1094.8	1095.7	1096.5	1097.3	1098.2	1099.2	1100.2
135°	1152.6	1154.1	1155.7	1157.2	1158.5	1159.6	1160.6	1161.6	1162.8	1163.5	1164.3
137.5°	1209.3	1211.2	1213.3	1215.3	1216.5	1217.1	1217.7	1218.2	1218.8	1220.0	1221.3
140°	1246.4	1248.0	1249.5	1251.1	1252.2	1253.0	1253.8	1254.7	1255.4	1256.5	1257.5
142.5°	1281.1	1282.7	1284.2	1285.9	1287.0	1287.8	1288.6	1289.4	1290.1	1291.0	1291.8
145°	1330.0	1331.8	1333.6	1335.4	1336.7	1337.2	1337.7	1338.2	1338.7	1339.2	1339.8
147.5°	1375.1	1376.3	1377.5	1378.7	1379.6	1380.1	1380.6	1381.1	1381.6	1382.2	1382.7
150°	1402.8	1403.6	1404.4	1405.2	1405.8	1406.3	1406.8	1407.4	1408.0	1408.5	1409.0
152.5°	1427.7	1428.2	1428.5	1428.9	1429.2	1429.5	1429.9	1430.2	1430.5	1431.4	1432.3
155°	1462.6	1462.0	1461.5	1461.0	1460.9	1461.1	1461.4	1461.7	1461.9	1463.2	1464.5
157.5°	1490.7	1490.7	1490.6	1490.6	1490.4	1490.2	1489.9	1489.7	1489.3	1491.0	1492.5
160°	1507.4	1507.1	1506.9	1506.6	1506.3	1506.1	1505.8	1505.6	1505.3	1506.9	1508.4
162.5°	1523.0	1522.3	1521.6	1520.9	1520.5	1520.1	1519.9	1519.6	1519.3	1521.2	1523.0
165°	1542.1	1541.3	1540.5	1539.7	1539.2	1538.9	1538.6	1538.4	1538.1	1540.2	1542.4
167.5°	1556.8	1555.8	1554.8	1553.7	1553.2	1553.2	1553.2	1553.2	1553.2	1555.3	1557.3
170°	1565.3	1564.3	1563.2	1562.2	1561.7	1561.7	1561.7	1561.7	1561.7	1563.7	1565.8
172.5°	1570.7	1569.4	1568.2	1566.9	1566.4	1566.6	1566.8	1567.0	1567.2	1569.3	1571.5
175°	1577.9	1576.6	1575.3	1574.0	1573.5	1573.8	1574.0	1574.3	1574.5	1576.4	1578.2
177.5°	1580.0	1579.0	1578.0	1576.9	1576.5	1576.7	1576.9	1577.1	1577.3	1579.0	1580.6
180°	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1
2.5°	1302.7	1302.7	1304.4	1310.8	1311.6	1317.2	1315.5
5°	1431.8	1441.8	1445.5	1461.4	1470.9	1475.1	1466.6
7.5°	1589.5	1617.9	1631.3	1647.9	1662.6	1667.1	1655.5
10°	1704.6	1734.1	1759.1	1774.3	1788.7	1798.2	1810.3
12.5°	1815.8	1852.2	1875.8	1897.4	1912.2	1924.2	1926.2
15°	1936.7	1991.7	2033.5	2064.1	2079.4	2087.4	2084.2
17.5°	2058.6	2109.6	2139.3	2170.6	2191.8	2192.9	2193.5
20°	2127.6	2177.3	2211.6	2234.8	2258.7	2257.7	2262.9
22.5°	2173.6	2212.8	2239.1	2256.0	2264.2	2260.2	2261.2
25°	2195.2	2206.9	2202.1	2175.1	2168.3	2143.4	2147.7
27.5°	2084.0	2029.0	1972.1	1899.0	1841.2	1795.1	1797.5
30°	1933.0	1835.7	1724.6	1631.6	1548.1	1524.8	1475.1
32.5°	1721.9	1576.0	1445.9	1359.2	1287.5	1268.1	1224.8
35°	1364.1	1222.3	1088.6	1008.2	976.5	932.1	931.6
37.5°	1060.3	935.5	864.7	804.5	772.8	746.0	743.4
40°	891.9	794.7	741.2	697.9	666.7	646.6	641.9
42.5°	774.4	695.7	645.7	618.8	594.8	584.4	576.7
45°	632.4	579.5	544.6	520.3	509.2	501.2	497.0
47.5°	529.0	493.5	469.7	453.5	444.5	436.2	438.4
50°	472.7	443.6	426.2	410.8	403.9	398.1	398.7
52.5°	427.4	401.3	387.2	376.2	367.6	363.5	361.4
55°	362.7	346.3	332.0	324.1	319.3	313.6	311.9
57.5°	309.4	296.7	285.1	276.1	274.9	269.3	270.0
60°	273.9	263.3	253.8	249.0	245.3	240.5	242.2
62.5°	244.7	235.8	227.1	223.2	219.5	216.0	216.8
65°	200.4	191.9	186.6	184.5	182.9	181.4	179.8
67.5°	159.7	154.5	151.2	146.6	143.4	142.9	141.3
70°	134.3	127.4	121.6	115.8	114.2	113.7	114.2
72.5°	107.7	103.3	101.7	98.9	98.6	97.1	98.2
75°	80.9	79.3	78.3	76.1	76.1	76.1	76.1
77.5°	59.7	58.7	58.1	57.7	57.1	56.4	56.2
80°	46.6	45.9	44.9	44.9	44.4	44.9	44.4
82.5°	35.1	35.0	33.9	33.9	33.4	33.1	33.4
85°	18.0	17.5	18.5	17.5	18.0	17.0	18.0
87.5°	11.3	11.5	11.3	11.4	11.1	12.0	11.3
90°	31.3	32.3	33.1	33.6	34.1	34.6	35.2
92.5°	35.0	36.8	37.7	38.0	38.4	38.7	39.0
95°	41.8	43.6	44.5	44.5	44.5	44.5	44.5
97.5°	44.0	46.2	47.3	47.6	47.9	48.1	48.4
100°	44.9	47.1	48.3	48.5	48.8	49.0	49.3
102.5°	57.8	51.3	48.4	48.8	49.3	49.8	50.2
105°	118.5	72.3	49.6	50.1	50.6	51.1	51.6
107.5°	369.4	335.6	301.2	266.5	231.7	196.9	162.2
110°	503.3	494.7	471.8	434.5	397.2	359.9	322.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	588.8	589.0	585.0	577.1	569.3	561.4	553.5
115°	681.3	683.9	685.7	686.7	687.8	688.8	689.8
117.5°	762.3	764.4	765.6	765.8	766.0	766.2	766.4
120°	815.8	817.9	818.9	818.9	818.9	818.9	818.9
122.5°	867.5	868.9	869.7	869.9	870.1	870.4	870.6
125°	940.2	940.7	941.2	941.7	942.3	942.8	943.3
127.5°	1014.3	1015.1	1015.3	1014.8	1014.3	1013.8	1013.2
130°	1059.0	1060.2	1060.4	1059.9	1059.3	1058.8	1058.3
132.5°	1101.4	1102.4	1102.5	1101.8	1101.1	1100.3	1099.5
135°	1165.1	1165.9	1165.9	1165.1	1164.3	1163.5	1162.8
137.5°	1222.5	1223.8	1224.2	1223.7	1223.1	1222.6	1222.0
140°	1258.5	1259.6	1259.8	1259.3	1258.8	1258.3	1257.8
142.5°	1292.6	1293.4	1293.5	1292.8	1292.0	1291.3	1290.6
145°	1340.3	1340.8	1341.0	1341.0	1341.0	1341.0	1341.0
147.5°	1383.2	1383.7	1383.4	1382.2	1381.0	1379.8	1378.6
150°	1409.5	1410.0	1409.9	1409.1	1408.4	1407.5	1406.7
152.5°	1433.3	1434.2	1434.1	1432.9	1431.7	1430.5	1429.3
155°	1465.8	1467.1	1466.9	1465.4	1463.9	1462.3	1460.8
157.5°	1494.0	1495.6	1495.4	1493.4	1491.3	1489.2	1487.2
160°	1510.0	1511.6	1511.5	1509.6	1507.8	1505.9	1504.1
162.5°	1524.7	1526.5	1526.5	1524.9	1523.3	1521.7	1520.0
165°	1544.4	1546.5	1546.6	1544.8	1543.0	1541.2	1539.3
167.5°	1559.4	1561.6	1561.6	1559.4	1557.3	1555.3	1553.2
170°	1567.9	1569.9	1569.9	1567.9	1565.8	1563.7	1561.7
172.5°	1573.5	1575.6	1575.5	1573.2	1570.9	1568.6	1566.3
175°	1580.0	1581.9	1581.7	1579.6	1577.5	1575.5	1573.4
177.5°	1582.4	1584.0	1583.8	1581.8	1579.6	1577.5	1575.5
180°	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2

(END OF REPORT)