

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: P332354-830

Luminaire Tested: **S123RDIP-S1000D1195U830-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332354-830
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-S1000D1195U830-4F0-1E-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: 8229.7 lumens
Efficiency: N/A
Efficacy: 125.8 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: General Diffuse

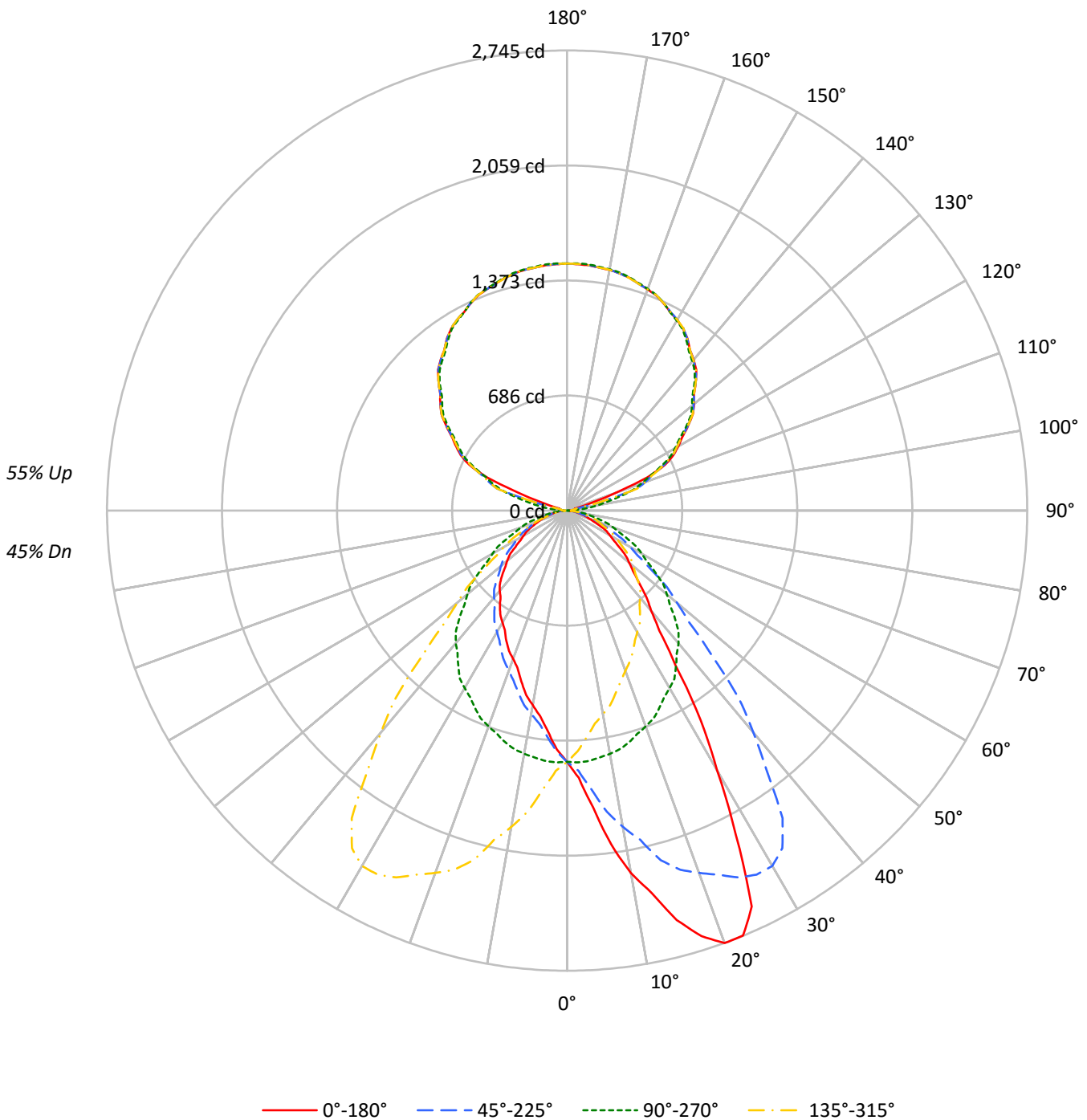
Input Watts (W): 65.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.4	1.8
10°-20°	460.3	5.6
20°-30°	723.2	8.8
30°-40°	754.5	9.2
40°-50°	645.7	7.8
50°-60°	492.2	6.0
60°-70°	315.5	3.8
70°-80°	151.8	1.8
80°-90°	44.3	0.5
90°-100°	53.6	0.7
100°-110°	255.4	3.1
110°-120°	613.5	7.5
120°-130°	781.2	9.5
130°-140°	834.7	10.1
140°-150°	780.5	9.5
150°-160°	629.6	7.7
160°-170°	406.3	4.9
170°-180°	140.0	1.7
0°-30°	1330.9	16.2
0°-40°	2085.5	25.3
0°-60°	3223.3	39.2
0°-90°	3734.9	45.4
90°-120°	922.4	11.2
90°-150°	3318.8	40.3
90°-180°	4495.0	54.6
0°-180°	8229.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1498	1498	1498	1498	1498	
5°	1779	1499	1320	1499	1779	184
15°	2529	1430	1054	1430	2529	717
25°	2606	1300	858	1300	2606	1120
35°	1130	1133	699	1133	1130	741
45°	603	910	550	910	603	474
55°	378	640	376	640	378	342
65°	218	395	236	395	218	215
75°	92	192	121	192	92	99
85°	22	44	42	44	22	26
90°	33	1	33	1	33	16
95°	42	67	42	67	42	35
105°	48	326	48	326	48	110
115°	644	612	644	612	644	595
125°	880	863	880	863	880	786
135°	1085	1074	1085	1074	1085	837
145°	1252	1240	1252	1240	1252	781
155°	1363	1366	1363	1366	1363	629
165°	1437	1440	1437	1440	1437	406
175°	1468	1474	1468	1474	1468	140
180°	1474	1474	1474	1474	1474	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4
2.5°	1595.9	1597.9	1591.3	1590.3	1582.5	1580.5	1580.5	1569.7	1563.0	1554.3	1549.2
5°	1779.3	1789.6	1784.4	1772.9	1753.7	1749.2	1737.0	1717.8	1695.9	1669.0	1656.1
7.5°	2008.5	2022.4	2017.0	1999.2	1979.1	1962.8	1928.4	1896.5	1851.7	1812.4	1778.9
10°	2196.2	2181.5	2169.9	2152.7	2134.0	2103.8	2067.9	2018.5	1961.5	1916.6	1866.6
12.5°	2336.8	2334.4	2319.8	2302.0	2275.7	2247.0	2202.9	2142.8	2076.4	2011.6	1954.3
15°	2528.6	2532.3	2522.7	2504.1	2466.9	2416.3	2349.6	2324.6	2229.6	2159.1	2088.5
17.5°	2661.2	2660.4	2659.1	2633.4	2595.4	2559.3	2497.5	2431.7	2345.7	2246.3	2151.3
20°	2745.3	2738.9	2740.2	2711.3	2683.1	2641.4	2581.2	2485.6	2415.0	2300.2	2202.1
22.5°	2743.3	2742.0	2746.9	2737.0	2716.5	2684.5	2637.0	2556.4	2466.3	2350.4	2240.0
25°	2605.5	2600.4	2630.5	2638.8	2671.5	2677.3	2663.2	2618.9	2533.6	2414.3	2277.7
27.5°	2180.6	2177.7	2233.7	2303.8	2392.6	2461.5	2528.3	2560.5	2533.6	2448.3	2311.3
30°	1789.6	1849.9	1878.1	1979.4	2092.4	2227.0	2345.0	2457.3	2484.9	2447.7	2335.4
32.5°	1485.8	1538.4	1562.0	1649.0	1754.2	1911.9	2089.1	2248.0	2360.2	2388.7	2321.1
35°	1130.2	1130.9	1184.7	1223.2	1320.7	1483.0	1654.9	1867.8	2079.5	2239.9	2256.5
37.5°	901.8	905.0	937.6	976.0	1049.1	1134.9	1286.3	1463.4	1707.9	1954.1	2098.4
40°	778.7	784.5	808.9	846.7	899.3	964.0	1082.1	1248.9	1452.8	1726.7	1950.6
42.5°	699.6	709.1	721.6	750.7	783.3	844.0	939.4	1068.3	1253.8	1512.8	1771.0
45°	602.9	608.0	617.7	631.1	660.6	703.0	767.1	853.8	1007.7	1216.2	1474.6
47.5°	531.9	529.1	539.3	550.3	569.9	598.7	641.7	712.4	822.2	989.5	1208.7
50°	483.6	483.0	490.0	498.4	517.0	538.2	573.4	626.7	713.9	852.4	1053.2
52.5°	438.5	440.9	445.9	456.3	469.8	486.8	518.5	556.9	631.8	751.4	918.8
55°	378.4	380.4	387.4	393.2	402.8	420.1	440.0	472.1	523.4	606.8	744.7
57.5°	327.6	326.8	333.6	335.0	345.8	360.0	375.3	400.3	437.4	499.5	592.3
60°	293.8	291.8	297.7	302.1	307.9	319.4	332.2	356.7	386.2	431.7	511.2
62.5°	263.0	262.1	266.4	270.8	275.6	286.1	296.9	315.6	338.9	377.3	440.5
65°	218.1	220.0	222.0	223.9	226.4	232.8	243.1	255.9	271.9	298.9	344.4
67.5°	171.4	173.3	174.0	178.0	183.4	187.5	193.7	205.1	216.3	239.0	264.9
70°	138.6	137.9	138.6	140.4	147.5	154.6	163.0	171.3	178.3	194.4	216.1
72.5°	119.0	117.9	119.6	120.0	123.4	125.4	130.6	138.5	147.5	158.4	174.1
75°	92.4	92.4	92.4	92.4	94.9	96.2	98.1	100.1	103.3	108.4	120.0
77.5°	68.2	68.3	69.3	69.9	70.4	71.2	72.4	74.3	75.4	78.1	83.1
80°	53.9	54.5	53.9	54.5	54.5	55.8	56.5	58.3	59.0	62.2	64.2
82.5°	40.5	40.2	40.5	41.2	41.2	42.5	42.6	44.0	44.1	45.8	47.7
85°	21.8	20.5	21.8	21.2	22.4	21.2	21.8	23.1	23.1	23.8	26.3
87.5°	11.7	12.6	11.5	11.9	11.8	12.2	12.0	11.8	12.6	12.0	11.8
90°	32.9	32.3	31.9	31.4	30.9	30.2	29.2	28.2	27.2	26.3	23.1
92.5°	36.4	36.1	35.8	35.4	35.2	34.3	32.7	31.1	29.6	28.0	25.6
95°	41.6	41.6	41.6	41.6	41.6	40.7	39.0	37.3	35.6	33.9	31.3
97.5°	45.1	44.9	44.7	44.4	44.1	43.1	41.1	39.1	37.2	35.3	32.8
100°	46.0	45.7	45.5	45.2	45.1	43.9	41.9	40.1	38.1	36.1	34.1
102.5°	46.8	46.5	46.0	45.5	45.1	47.9	53.9	59.9	66.0	72.0	113.5
105°	48.2	47.7	47.2	46.8	46.3	67.5	110.6	153.6	196.7	239.8	261.7
107.5°	151.4	183.8	216.2	248.7	281.2	313.2	344.8	376.4	407.9	439.6	436.1
110°	301.1	335.9	370.7	405.6	440.4	461.8	469.8	477.8	485.9	493.9	491.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	516.6	524.0	531.3	538.7	546.0	549.7	549.5	549.3	549.2	549.0	546.4
115°	643.9	642.9	642.0	640.9	640.0	638.3	635.8	633.4	631.0	628.6	626.4
117.5°	715.3	715.1	714.9	714.7	714.5	713.4	711.5	709.5	707.6	705.7	704.6
120°	764.3	764.3	764.3	764.3	764.3	763.4	761.4	759.5	757.5	755.5	754.9
122.5°	812.6	812.4	812.1	811.9	811.7	811.0	809.6	808.2	806.9	805.5	804.6
125°	880.4	880.0	879.5	878.9	878.4	878.0	877.5	877.0	876.6	876.0	875.1
127.5°	945.7	946.2	946.7	947.2	947.6	947.4	946.7	945.9	945.2	944.3	943.2
130°	987.8	988.3	988.7	989.2	989.7	989.5	988.4	987.5	986.6	985.5	984.6
132.5°	1026.2	1027.0	1027.7	1028.3	1029.0	1028.9	1027.9	1026.9	1026.0	1025.0	1024.2
135°	1085.2	1085.9	1086.7	1087.4	1088.2	1088.2	1087.4	1086.7	1085.9	1085.2	1084.2
137.5°	1140.6	1141.1	1141.6	1142.1	1142.6	1142.2	1141.0	1139.9	1138.7	1137.6	1137.0
140°	1173.9	1174.4	1174.9	1175.4	1175.8	1175.6	1174.6	1173.7	1172.7	1171.7	1171.0
142.5°	1204.6	1205.2	1205.9	1206.6	1207.3	1207.2	1206.5	1205.7	1204.9	1204.1	1203.4
145°	1251.6	1251.6	1251.6	1251.6	1251.6	1251.4	1250.9	1250.5	1249.9	1249.4	1249.0
147.5°	1286.7	1287.8	1288.9	1290.1	1291.2	1291.5	1291.0	1290.5	1290.1	1289.5	1289.0
150°	1313.0	1313.7	1314.5	1315.1	1315.9	1316.0	1315.5	1315.0	1314.6	1314.1	1313.6
152.5°	1334.0	1335.1	1336.2	1337.4	1338.5	1338.6	1337.8	1336.8	1336.0	1335.1	1334.8
155°	1363.4	1364.8	1366.3	1367.7	1369.1	1369.3	1368.1	1366.9	1365.6	1364.4	1364.2
157.5°	1388.1	1390.0	1391.9	1393.8	1395.7	1395.9	1394.4	1393.0	1391.6	1390.1	1390.3
160°	1403.8	1405.5	1407.3	1409.0	1410.7	1410.8	1409.3	1407.9	1406.5	1405.0	1405.2
162.5°	1418.7	1420.2	1421.7	1423.2	1424.7	1424.7	1423.1	1421.4	1419.8	1418.1	1418.3
165°	1436.7	1438.4	1440.1	1441.8	1443.5	1443.4	1441.4	1439.5	1437.6	1435.6	1435.9
167.5°	1449.6	1451.6	1453.5	1455.5	1457.5	1457.5	1455.5	1453.5	1451.6	1449.6	1449.6
170°	1457.5	1459.4	1461.4	1463.4	1465.3	1465.3	1463.4	1461.4	1459.4	1457.5	1457.5
172.5°	1461.9	1464.1	1466.2	1468.3	1470.5	1470.6	1468.6	1466.7	1464.7	1462.7	1462.5
175°	1468.5	1470.5	1472.3	1474.3	1476.2	1476.4	1474.7	1473.0	1471.3	1469.5	1469.3
177.5°	1470.5	1472.3	1474.3	1476.3	1478.2	1478.4	1476.9	1475.3	1473.8	1472.2	1472.0
180°	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4
2.5°	1547.1	1545.6	1538.4	1530.2	1519.4	1512.2	1506.6	1503.5	1494.3	1483.0	1475.3
5°	1642.7	1623.4	1603.0	1577.9	1554.8	1531.1	1516.4	1499.0	1477.8	1454.2	1437.5
7.5°	1745.1	1707.3	1666.7	1624.8	1583.3	1546.1	1513.3	1485.2	1451.4	1417.4	1393.5
10°	1823.6	1768.4	1711.4	1652.9	1599.7	1549.7	1511.2	1473.4	1432.9	1393.8	1364.3
12.5°	1894.9	1822.3	1756.5	1684.8	1616.6	1556.9	1501.5	1457.0	1408.3	1366.6	1333.0
15°	1985.2	1910.8	1831.3	1722.2	1631.8	1556.1	1488.7	1430.4	1371.4	1320.0	1287.3
17.5°	2069.6	1957.7	1850.8	1759.8	1642.3	1547.7	1465.6	1395.7	1331.0	1276.6	1236.3
20°	2104.5	1996.1	1880.0	1764.0	1648.5	1542.7	1447.1	1370.1	1302.8	1241.1	1204.0
22.5°	2125.5	2002.8	1880.6	1755.8	1633.0	1523.1	1428.6	1344.0	1270.9	1212.4	1166.5
25°	2150.0	2003.8	1869.2	1746.0	1620.9	1501.6	1389.3	1299.6	1220.7	1158.4	1109.7
27.5°	2166.2	1994.2	1835.0	1698.1	1571.2	1452.5	1349.5	1254.3	1174.3	1108.5	1056.2
30°	2169.4	1986.5	1808.8	1660.7	1531.7	1422.7	1313.6	1222.6	1137.9	1068.0	1019.3
32.5°	2173.4	1967.6	1773.4	1616.0	1484.0	1376.0	1277.2	1190.2	1103.5	1034.6	984.9
35°	2156.5	1957.0	1719.7	1538.8	1406.7	1302.1	1213.0	1132.7	1047.4	980.7	930.1
37.5°	2083.6	1915.3	1664.0	1451.8	1313.6	1216.8	1144.2	1074.3	996.0	924.1	876.3
40°	2010.3	1874.2	1620.9	1398.9	1254.6	1155.2	1089.8	1032.7	957.1	889.7	838.4
42.5°	1900.9	1818.4	1579.9	1343.5	1187.9	1092.1	1036.9	983.4	917.0	848.6	800.4
45°	1700.4	1711.4	1495.8	1255.3	1095.5	999.4	947.3	910.2	851.2	794.8	745.4
47.5°	1449.0	1551.0	1397.1	1161.2	998.2	907.9	862.4	830.0	790.2	734.8	689.8
50°	1284.8	1430.4	1318.1	1098.2	937.2	847.3	802.4	776.1	741.5	697.9	654.9
52.5°	1133.4	1289.8	1222.7	1027.8	870.9	788.8	745.0	723.3	695.8	654.8	615.9
55°	924.3	1082.7	1067.3	921.7	771.7	697.9	664.5	640.2	621.5	590.8	560.0
57.5°	747.6	897.9	905.8	803.7	684.2	611.2	582.6	564.2	552.0	528.8	500.3
60°	636.3	774.2	801.2	724.2	621.5	557.4	529.1	514.4	504.8	486.2	464.4
62.5°	543.9	661.3	691.8	636.4	561.5	501.4	479.4	465.1	458.6	442.6	423.4
65°	416.3	513.8	543.3	512.5	473.3	425.3	407.3	395.1	389.4	380.4	366.3
67.5°	313.0	384.1	416.4	394.7	380.6	350.2	338.8	332.2	327.2	320.9	309.2
70°	251.5	304.1	337.4	331.6	320.1	304.1	295.7	291.2	286.1	281.0	270.7
72.5°	202.2	238.4	269.7	272.6	263.2	260.0	252.6	250.7	247.6	241.5	235.8
75°	134.0	159.1	180.9	189.3	193.0	196.2	193.0	192.5	191.8	186.6	183.4
77.5°	87.8	101.3	115.1	129.3	135.3	139.7	140.7	143.1	141.4	138.6	137.1
80°	67.4	70.6	80.2	92.4	102.0	105.8	108.4	109.7	109.1	108.4	105.8
82.5°	48.9	51.6	56.1	64.7	72.8	79.2	80.7	80.4	81.8	82.2	80.2
85°	26.3	27.0	28.2	29.5	34.0	41.1	43.0	44.3	45.5	45.5	41.7
87.5°	12.2	11.0	11.4	10.9	12.0	12.0	14.5	16.7	17.6	16.1	16.6
90°	20.0	16.8	13.7	10.8	8.4	5.9	3.5	1.1	3.5	5.9	8.4
92.5°	23.3	20.9	18.5	17.6	18.3	19.0	19.7	20.4	19.7	19.0	18.3
95°	28.6	25.9	23.3	26.9	36.9	46.8	56.8	66.8	56.8	46.8	36.9
97.5°	70.3	87.8	105.4	116.3	120.8	125.3	129.8	134.2	129.8	125.3	120.8
100°	112.1	150.1	187.9	204.5	199.6	194.8	189.9	185.0	189.9	194.8	199.6
102.5°	155.0	196.4	237.9	256.9	253.4	249.9	246.4	242.9	246.4	249.9	253.4
105°	283.6	305.5	327.4	337.1	334.3	331.7	329.0	326.3	329.0	331.7	334.3
107.5°	432.6	429.2	425.7	422.9	420.8	418.7	416.5	414.3	416.5	418.7	420.8
110°	488.5	485.9	483.1	480.9	478.9	476.9	475.0	473.1	475.0	476.9	478.9



TEST NUMBER: P332354-830

CATALOG NUMBER: S123RDIP-S1000D1195U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	543.8	541.0	538.4	536.1	534.4	532.6	530.8	529.1	530.8	532.6	534.4
115°	624.2	622.0	619.8	617.9	616.5	615.0	613.6	612.2	613.6	615.0	616.5
117.5°	703.4	702.3	701.2	699.7	698.0	696.1	694.3	692.5	694.3	696.1	698.0
120°	754.1	753.4	752.7	751.2	749.0	746.9	744.6	742.4	744.6	746.9	749.0
122.5°	803.7	802.8	801.8	800.5	798.6	796.8	795.0	793.2	795.0	796.8	798.6
125°	874.1	873.1	872.1	870.7	868.7	866.8	864.9	862.9	864.9	866.8	868.7
127.5°	942.1	940.8	939.7	938.1	936.2	934.2	932.3	930.4	932.3	934.2	936.2
130°	983.6	982.6	981.7	980.1	978.3	976.3	974.4	972.4	974.4	976.3	978.3
132.5°	1023.4	1022.7	1021.8	1020.5	1018.5	1016.6	1014.6	1012.7	1014.6	1016.6	1018.5
135°	1083.3	1082.3	1081.3	1080.1	1078.6	1077.1	1075.7	1074.2	1075.7	1077.1	1078.6
137.5°	1136.5	1136.0	1135.4	1134.3	1132.4	1130.5	1128.7	1126.8	1128.7	1130.5	1132.4
140°	1170.3	1169.5	1168.8	1167.7	1166.2	1164.8	1163.3	1161.9	1163.3	1164.8	1166.2
142.5°	1202.7	1201.9	1201.2	1200.1	1198.6	1197.2	1195.7	1194.3	1195.7	1197.2	1198.6
145°	1248.5	1248.0	1247.5	1246.4	1244.7	1243.0	1241.3	1239.6	1241.3	1243.0	1244.7
147.5°	1288.5	1288.1	1287.6	1286.8	1285.6	1284.6	1283.5	1282.3	1283.5	1284.6	1285.6
150°	1313.1	1312.6	1312.1	1311.5	1310.8	1310.0	1309.3	1308.6	1309.3	1310.0	1310.8
152.5°	1334.5	1334.2	1333.9	1333.6	1333.2	1332.9	1332.6	1332.3	1332.6	1332.9	1333.2
155°	1364.0	1363.7	1363.5	1363.6	1364.0	1364.5	1365.1	1365.6	1365.1	1364.5	1364.0
157.5°	1390.5	1390.8	1391.0	1391.2	1391.2	1391.3	1391.3	1391.4	1391.3	1391.3	1391.2
160°	1405.4	1405.7	1405.9	1406.2	1406.5	1406.7	1406.9	1407.1	1406.9	1406.7	1406.5
162.5°	1418.6	1418.8	1419.1	1419.5	1420.1	1420.8	1421.4	1422.0	1421.4	1420.8	1420.1
165°	1436.1	1436.3	1436.6	1437.1	1437.8	1438.5	1439.3	1440.0	1439.3	1438.5	1437.8
167.5°	1449.6	1449.6	1449.6	1450.1	1451.1	1452.1	1453.0	1454.1	1453.0	1452.1	1451.1
170°	1457.5	1457.5	1457.5	1458.0	1459.0	1460.0	1460.9	1461.9	1460.9	1460.0	1459.0
172.5°	1462.4	1462.2	1462.0	1462.4	1463.7	1464.8	1466.0	1467.2	1466.0	1464.8	1463.7
175°	1469.0	1468.9	1468.6	1469.0	1470.3	1471.5	1472.7	1473.9	1472.7	1471.5	1470.3
177.5°	1471.8	1471.6	1471.4	1471.8	1472.8	1473.8	1474.7	1475.7	1474.7	1473.8	1472.8
180°	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9



TEST NUMBER: P332354-830

CATALOG NUMBER: S123RDIP-S1000D1195U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4
2.5°	1472.7	1466.0	1461.4	1451.1	1444.5	1437.3	1430.1	1434.7	1434.3	1433.7	1433.7
5°	1423.3	1408.5	1395.2	1377.8	1366.9	1353.4	1343.1	1341.9	1344.4	1335.5	1330.3
7.5°	1374.3	1354.2	1335.1	1316.0	1295.7	1279.5	1269.4	1264.6	1258.1	1252.5	1246.8
10°	1339.9	1316.3	1297.6	1273.8	1252.1	1232.8	1220.7	1212.3	1207.8	1203.3	1195.0
12.5°	1304.6	1281.3	1257.6	1230.8	1210.0	1187.7	1178.6	1169.2	1160.6	1155.6	1144.2
15°	1252.7	1222.6	1197.6	1169.3	1146.2	1124.5	1111.6	1093.0	1090.4	1084.0	1072.5
17.5°	1200.8	1168.0	1133.5	1112.7	1086.6	1063.8	1044.3	1038.1	1019.7	1012.9	1002.8
20°	1159.7	1129.5	1103.2	1075.7	1037.8	1016.6	1001.3	993.0	978.2	969.2	962.8
22.5°	1124.3	1093.6	1063.3	1031.0	999.8	976.1	964.9	951.9	943.8	931.2	924.3
25°	1073.7	1040.4	1003.8	969.2	946.8	928.8	910.9	899.3	887.8	881.9	869.1
27.5°	1015.0	980.1	945.9	919.6	892.1	874.4	858.1	847.8	834.0	824.3	817.2
30°	982.7	941.6	912.1	888.3	853.1	836.4	824.3	811.4	801.2	790.9	783.8
32.5°	945.2	907.8	879.8	850.5	823.3	805.1	789.4	778.1	769.3	759.6	752.5
35°	886.5	855.1	826.1	796.6	776.7	758.2	739.6	729.9	721.6	712.7	706.2
37.5°	833.3	804.0	776.6	748.6	723.9	708.8	693.8	686.5	675.1	669.1	662.6
40°	800.5	771.7	742.2	715.2	689.6	678.0	664.5	653.7	643.4	638.9	631.8
42.5°	764.6	735.7	710.9	681.8	660.8	645.2	632.7	620.8	613.1	606.5	602.6
45°	711.3	685.7	661.3	632.4	612.6	599.1	584.9	574.1	567.0	562.5	555.4
47.5°	659.7	634.0	609.3	584.1	564.9	549.4	535.4	527.7	518.4	512.9	508.1
50°	622.2	599.1	572.8	549.7	530.5	515.1	503.5	493.9	485.6	478.5	475.3
52.5°	587.8	563.2	540.5	519.0	498.6	481.2	470.7	460.5	454.3	446.2	442.4
55°	531.1	507.4	488.1	466.9	447.0	432.3	419.5	410.5	404.1	395.1	390.0
57.5°	477.9	456.6	433.6	415.3	394.7	382.3	371.6	359.5	351.7	344.6	339.6
60°	442.0	417.5	397.7	380.4	362.4	346.4	336.8	327.2	318.8	311.7	307.3
62.5°	404.4	383.2	364.3	345.4	329.0	315.1	303.9	295.9	288.5	284.0	279.6
65°	347.0	330.4	311.1	295.7	280.3	270.0	261.1	254.0	248.8	245.6	241.9
67.5°	294.2	278.0	261.2	246.1	235.8	228.0	222.1	216.0	213.5	209.3	206.8
70°	259.8	243.1	228.4	216.8	206.5	200.8	196.9	192.5	189.8	184.7	182.2
72.5°	222.3	210.3	199.6	190.1	181.9	176.6	171.7	166.3	162.1	156.5	153.9
75°	175.1	164.2	155.9	149.5	144.3	137.2	130.2	124.4	122.5	120.6	120.0
77.5°	129.7	122.8	116.8	111.3	104.9	99.8	98.3	97.0	96.6	95.6	95.6
80°	102.0	95.6	91.0	84.6	80.8	80.8	80.8	79.6	80.2	80.2	80.2
82.5°	75.8	69.9	67.5	65.1	64.4	64.9	64.9	65.1	64.8	65.8	65.3
85°	39.1	39.8	41.1	40.4	41.1	41.1	42.3	41.7	42.3	41.1	42.3
87.5°	16.5	18.7	19.8	20.9	22.1	22.1	22.9	23.1	23.8	24.0	24.1
90°	10.8	13.7	16.8	20.0	23.1	26.3	27.2	28.2	29.2	30.2	30.9
92.5°	17.6	18.5	20.9	23.3	25.6	28.0	29.6	31.1	32.7	34.3	35.2
95°	26.9	23.3	25.9	28.6	31.3	33.9	35.6	37.3	39.0	40.7	41.6
97.5°	116.3	105.4	87.8	70.3	52.8	35.3	37.2	39.1	41.1	43.1	44.1
100°	204.5	187.9	150.1	112.1	74.1	36.1	38.1	40.1	41.9	43.9	45.1
102.5°	256.9	237.9	196.4	155.0	113.5	72.0	66.0	59.9	53.9	47.9	45.1
105°	337.1	327.4	305.5	283.6	261.7	239.8	196.7	153.6	110.6	67.5	46.3
107.5°	422.9	425.7	429.2	432.6	436.1	439.6	407.9	376.4	344.8	313.2	281.2
110°	480.9	483.1	485.9	488.5	491.2	493.9	485.9	477.8	469.8	461.8	440.4



TEST NUMBER: P332354-830

CATALOG NUMBER: S123RDIP-S1000D1195U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	536.1	538.4	541.0	543.8	546.4	549.0	549.2	549.3	549.5	549.7	546.0
115°	617.9	619.8	622.0	624.2	626.4	628.6	631.0	633.4	635.8	638.3	640.0
117.5°	699.7	701.2	702.3	703.4	704.6	705.7	707.6	709.5	711.5	713.4	714.5
120°	751.2	752.7	753.4	754.1	754.9	755.5	757.5	759.5	761.4	763.4	764.3
122.5°	800.5	801.8	802.8	803.7	804.6	805.5	806.9	808.2	809.6	811.0	811.7
125°	870.7	872.1	873.1	874.1	875.1	876.0	876.6	877.0	877.5	878.0	878.4
127.5°	938.1	939.7	940.8	942.1	943.2	944.3	945.2	945.9	946.7	947.4	947.6
130°	980.1	981.7	982.6	983.6	984.6	985.5	986.6	987.5	988.4	989.5	989.7
132.5°	1020.5	1021.8	1022.7	1023.4	1024.2	1025.0	1026.0	1026.9	1027.9	1028.9	1029.0
135°	1080.1	1081.3	1082.3	1083.3	1084.2	1085.2	1085.9	1086.7	1087.4	1088.2	1088.2
137.5°	1134.3	1135.4	1136.0	1136.5	1137.0	1137.6	1138.7	1139.9	1141.0	1142.2	1142.6
140°	1167.7	1168.8	1169.5	1170.3	1171.0	1171.7	1172.7	1173.7	1174.6	1175.6	1175.8
142.5°	1200.1	1201.2	1201.9	1202.7	1203.4	1204.1	1204.9	1205.7	1206.5	1207.2	1207.3
145°	1246.4	1247.5	1248.0	1248.5	1249.0	1249.4	1249.9	1250.5	1250.9	1251.4	1251.6
147.5°	1286.8	1287.6	1288.1	1288.5	1289.0	1289.5	1290.1	1290.5	1291.0	1291.5	1291.2
150°	1311.5	1312.1	1312.6	1313.1	1313.6	1314.1	1314.6	1315.0	1315.5	1316.0	1315.9
152.5°	1333.6	1333.9	1334.2	1334.5	1334.8	1335.1	1336.0	1336.8	1337.8	1338.6	1338.5
155°	1363.6	1363.5	1363.7	1364.0	1364.2	1364.4	1365.6	1366.9	1368.1	1369.3	1369.1
157.5°	1391.2	1391.0	1390.8	1390.5	1390.3	1390.1	1391.6	1393.0	1394.4	1395.9	1395.7
160°	1406.2	1405.9	1405.7	1405.4	1405.2	1405.0	1406.5	1407.9	1409.3	1410.8	1410.7
162.5°	1419.5	1419.1	1418.8	1418.6	1418.3	1418.1	1419.8	1421.4	1423.1	1424.7	1424.7
165°	1437.1	1436.6	1436.3	1436.1	1435.9	1435.6	1437.6	1439.5	1441.4	1443.4	1443.5
167.5°	1450.1	1449.6	1449.6	1449.6	1449.6	1449.6	1451.6	1453.5	1455.5	1457.5	1457.5
170°	1458.0	1457.5	1457.5	1457.5	1457.5	1457.5	1459.4	1461.4	1463.4	1465.3	1465.3
172.5°	1462.4	1462.0	1462.2	1462.4	1462.5	1462.7	1464.7	1466.7	1468.6	1470.6	1470.5
175°	1469.0	1468.6	1468.9	1469.0	1469.3	1469.5	1471.3	1473.0	1474.7	1476.4	1476.2
177.5°	1471.8	1471.4	1471.6	1471.8	1472.0	1472.2	1473.8	1475.3	1476.9	1478.4	1478.2
180°	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9



TEST NUMBER: P332354-830

CATALOG NUMBER: S123RDIP-S1000D1195U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4
2.5°	1427.6	1427.0	1427.6	1425.5	1427.6	1427.0	1427.6	1433.7	1433.7	1434.3	1434.7
5°	1328.4	1327.8	1325.9	1320.0	1325.9	1327.8	1328.4	1330.3	1335.5	1344.4	1341.9
7.5°	1241.8	1241.0	1235.3	1235.4	1235.3	1241.0	1241.8	1246.8	1252.5	1258.1	1264.6
10°	1190.5	1191.1	1183.5	1178.9	1183.5	1191.1	1190.5	1195.0	1203.3	1207.8	1212.3
12.5°	1140.8	1137.7	1131.6	1126.6	1131.6	1137.7	1140.8	1144.2	1155.6	1160.6	1169.2
15°	1075.1	1068.7	1053.2	1054.5	1053.2	1068.7	1075.1	1072.5	1084.0	1090.4	1093.0
17.5°	997.7	993.0	992.7	983.7	992.7	993.0	997.7	1002.8	1012.9	1019.7	1038.1
20°	952.5	949.3	950.6	941.6	950.6	949.3	952.5	962.8	969.2	978.2	993.0
22.5°	917.1	913.9	908.5	905.7	908.5	913.9	917.1	924.3	931.2	943.8	951.9
25°	865.3	860.2	855.1	858.3	855.1	860.2	865.3	869.1	881.9	887.8	899.3
27.5°	813.5	809.6	804.5	803.8	804.5	809.6	813.5	817.2	824.3	834.0	847.8
30°	780.6	776.7	774.2	771.0	774.2	776.7	780.6	783.8	790.9	801.2	811.4
32.5°	747.2	746.5	741.9	741.2	741.9	746.5	747.2	752.5	759.6	769.3	778.1
35°	703.6	699.8	698.5	699.2	698.5	699.8	703.6	706.2	712.7	721.6	729.9
37.5°	662.2	657.0	654.8	652.4	654.8	657.0	662.2	662.6	669.1	675.1	686.5
40°	632.4	627.4	626.0	624.7	626.0	627.4	632.4	631.8	638.9	643.4	653.7
42.5°	599.1	597.0	596.3	594.0	596.3	597.0	599.1	602.6	606.5	613.1	620.8
45°	553.6	552.9	549.0	550.4	549.0	552.9	553.6	555.4	562.5	567.0	574.1
47.5°	505.6	502.8	500.0	501.8	500.0	502.8	505.6	508.1	512.9	518.4	527.7
50°	472.8	471.5	465.7	466.9	465.7	471.5	472.8	475.3	478.5	485.6	493.9
52.5°	439.9	435.0	432.8	432.1	432.8	435.0	439.9	442.4	446.2	454.3	460.5
55°	385.5	379.8	377.2	375.9	377.2	379.8	385.5	390.0	395.1	404.1	410.5
57.5°	332.2	330.5	328.6	330.0	328.6	330.5	332.2	339.6	344.6	351.7	359.5
60°	300.9	300.9	300.9	300.2	300.9	300.9	300.9	307.3	311.7	318.8	327.2
62.5°	276.7	275.1	274.7	275.6	274.7	275.1	276.7	279.6	284.0	288.5	295.9
65°	239.9	239.2	236.7	236.0	236.7	239.2	239.9	241.9	245.6	248.8	254.0
67.5°	205.1	202.8	202.1	201.1	202.1	202.8	205.1	206.8	209.3	213.5	216.0
70°	179.0	177.7	173.8	174.5	173.8	177.7	179.0	182.2	184.7	189.8	192.5
72.5°	150.7	149.5	148.6	147.8	148.6	149.5	150.7	153.9	156.5	162.1	166.3
75°	119.3	118.7	118.0	120.6	118.0	118.7	119.3	120.0	120.6	122.5	124.4
77.5°	95.6	95.6	96.0	94.9	96.0	95.6	95.6	95.6	95.6	96.6	97.0
80°	80.2	80.2	79.6	79.6	79.6	80.2	80.2	80.2	80.2	80.2	79.6
82.5°	64.3	64.8	65.1	64.2	65.1	64.8	64.3	65.3	65.8	64.8	65.1
85°	42.3	41.7	43.0	42.3	43.0	41.7	42.3	42.3	41.1	42.3	41.7
87.5°	25.3	24.3	24.4	25.1	24.4	24.3	25.3	24.1	24.0	23.8	23.1
90°	31.4	31.9	32.3	32.9	32.3	31.9	31.4	30.9	30.2	29.2	28.2
92.5°	35.4	35.8	36.1	36.4	36.1	35.8	35.4	35.2	34.3	32.7	31.1
95°	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	40.7	39.0	37.3
97.5°	44.4	44.7	44.9	45.1	44.9	44.7	44.4	44.1	43.1	41.1	39.1
100°	45.2	45.5	45.7	46.0	45.7	45.5	45.2	45.1	43.9	41.9	40.1
102.5°	45.5	46.0	46.5	46.8	46.5	46.0	45.5	45.1	47.9	53.9	59.9
105°	46.8	47.2	47.7	48.2	47.7	47.2	46.8	46.3	67.5	110.6	153.6
107.5°	248.7	216.2	183.8	151.4	183.8	216.2	248.7	281.2	313.2	344.8	376.4
110°	405.6	370.7	335.9	301.1	335.9	370.7	405.6	440.4	461.8	469.8	477.8



TEST NUMBER: P332354-830

CATALOG NUMBER: S123RDIP-S1000D1195U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	538.7	531.3	524.0	516.6	524.0	531.3	538.7	546.0	549.7	549.5	549.3
115°	640.9	642.0	642.9	643.9	642.9	642.0	640.9	640.0	638.3	635.8	633.4
117.5°	714.7	714.9	715.1	715.3	715.1	714.9	714.7	714.5	713.4	711.5	709.5
120°	764.3	764.3	764.3	764.3	764.3	764.3	764.3	764.3	763.4	761.4	759.5
122.5°	811.9	812.1	812.4	812.6	812.4	812.1	811.9	811.7	811.0	809.6	808.2
125°	878.9	879.5	880.0	880.4	880.0	879.5	878.9	878.4	878.0	877.5	877.0
127.5°	947.2	946.7	946.2	945.7	946.2	946.7	947.2	947.6	947.4	946.7	945.9
130°	989.2	988.7	988.3	987.8	988.3	988.7	989.2	989.7	989.5	988.4	987.5
132.5°	1028.3	1027.7	1027.0	1026.2	1027.0	1027.7	1028.3	1029.0	1028.9	1027.9	1026.9
135°	1087.4	1086.7	1085.9	1085.2	1085.9	1086.7	1087.4	1088.2	1088.2	1087.4	1086.7
137.5°	1142.1	1141.6	1141.1	1140.6	1141.1	1141.6	1142.1	1142.6	1142.2	1141.0	1139.9
140°	1175.4	1174.9	1174.4	1173.9	1174.4	1174.9	1175.4	1175.8	1175.6	1174.6	1173.7
142.5°	1206.6	1205.9	1205.2	1204.6	1205.2	1205.9	1206.6	1207.3	1207.2	1206.5	1205.7
145°	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.4	1250.9	1250.5
147.5°	1290.1	1288.9	1287.8	1286.7	1287.8	1288.9	1290.1	1291.2	1291.5	1291.0	1290.5
150°	1315.1	1314.5	1313.7	1313.0	1313.7	1314.5	1315.1	1315.9	1316.0	1315.5	1315.0
152.5°	1337.4	1336.2	1335.1	1334.0	1335.1	1336.2	1337.4	1338.5	1338.6	1337.8	1336.8
155°	1367.7	1366.3	1364.8	1363.4	1364.8	1366.3	1367.7	1369.1	1369.3	1368.1	1366.9
157.5°	1393.8	1391.9	1390.0	1388.1	1390.0	1391.9	1393.8	1395.7	1395.9	1394.4	1393.0
160°	1409.0	1407.3	1405.5	1403.8	1405.5	1407.3	1409.0	1410.7	1410.8	1409.3	1407.9
162.5°	1423.2	1421.7	1420.2	1418.7	1420.2	1421.7	1423.2	1424.7	1424.7	1423.1	1421.4
165°	1441.8	1440.1	1438.4	1436.7	1438.4	1440.1	1441.8	1443.5	1443.4	1441.4	1439.5
167.5°	1455.5	1453.5	1451.6	1449.6	1451.6	1453.5	1455.5	1457.5	1457.5	1455.5	1453.5
170°	1463.4	1461.4	1459.4	1457.5	1459.4	1461.4	1463.4	1465.3	1465.3	1463.4	1461.4
172.5°	1468.3	1466.2	1464.1	1461.9	1464.1	1466.2	1468.3	1470.5	1470.6	1468.6	1466.7
175°	1474.3	1472.3	1470.5	1468.5	1470.5	1472.3	1474.3	1476.2	1476.4	1474.7	1473.0
177.5°	1476.3	1474.3	1472.3	1470.5	1472.3	1474.3	1476.3	1478.2	1478.4	1476.9	1475.3
180°	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4
2.5°	1430.1	1437.3	1444.5	1451.1	1461.4	1466.0	1472.7	1475.3	1483.0	1494.3	1503.5
5°	1343.1	1353.4	1366.9	1377.8	1395.2	1408.5	1423.3	1437.5	1454.2	1477.8	1499.0
7.5°	1269.4	1279.5	1295.7	1316.0	1335.1	1354.2	1374.3	1393.5	1417.4	1451.4	1485.2
10°	1220.7	1232.8	1252.1	1273.8	1297.6	1316.3	1339.9	1364.3	1393.8	1432.9	1473.4
12.5°	1178.6	1187.7	1210.0	1230.8	1257.6	1281.3	1304.6	1333.0	1366.6	1408.3	1457.0
15°	1111.6	1124.5	1146.2	1169.3	1197.6	1222.6	1252.7	1287.3	1320.0	1371.4	1430.4
17.5°	1044.3	1063.8	1086.6	1112.7	1133.5	1168.0	1200.8	1236.3	1276.6	1331.0	1395.7
20°	1001.3	1016.6	1037.8	1075.7	1103.2	1129.5	1159.7	1204.0	1241.1	1302.8	1370.1
22.5°	964.9	976.1	999.8	1031.0	1063.3	1093.6	1124.3	1166.5	1212.4	1270.9	1344.0
25°	910.9	928.8	946.8	969.2	1003.8	1040.4	1073.7	1109.7	1158.4	1220.7	1299.6
27.5°	858.1	874.4	892.1	919.6	945.9	980.1	1015.0	1056.2	1108.5	1174.3	1254.3
30°	824.3	836.4	853.1	888.3	912.1	941.6	982.7	1019.3	1068.0	1137.9	1222.6
32.5°	789.4	805.1	823.3	850.5	879.8	907.8	945.2	984.9	1034.6	1103.5	1190.2
35°	739.6	758.2	776.7	796.6	826.1	855.1	886.5	930.1	980.7	1047.4	1132.7
37.5°	693.8	708.8	723.9	748.6	776.6	804.0	833.3	876.3	924.1	996.0	1074.3
40°	664.5	678.0	689.6	715.2	742.2	771.7	800.5	838.4	889.7	957.1	1032.7
42.5°	632.7	645.2	660.8	681.8	710.9	735.7	764.6	800.4	848.6	917.0	983.4
45°	584.9	599.1	612.6	632.4	661.3	685.7	711.3	745.4	794.8	851.2	910.2
47.5°	535.4	549.4	564.9	584.1	609.3	634.0	659.7	689.8	734.8	790.2	830.0
50°	503.5	515.1	530.5	549.7	572.8	599.1	622.2	654.9	697.9	741.5	776.1
52.5°	470.7	481.2	498.6	519.0	540.5	563.2	587.8	615.9	654.8	695.8	723.3
55°	419.5	432.3	447.0	466.9	488.1	507.4	531.1	560.0	590.8	621.5	640.2
57.5°	371.6	382.3	394.7	415.3	433.6	456.6	477.9	500.3	528.8	552.0	564.2
60°	336.8	346.4	362.4	380.4	397.7	417.5	442.0	464.4	486.2	504.8	514.4
62.5°	303.9	315.1	329.0	345.4	364.3	383.2	404.4	423.4	442.6	458.6	465.1
65°	261.1	270.0	280.3	295.7	311.1	330.4	347.0	366.3	380.4	389.4	395.1
67.5°	222.1	228.0	235.8	246.1	261.2	278.0	294.2	309.2	320.9	327.2	332.2
70°	196.9	200.8	206.5	216.8	228.4	243.1	259.8	270.7	281.0	286.1	291.2
72.5°	171.7	176.6	181.9	190.1	199.6	210.3	222.3	235.8	241.5	247.6	250.7
75°	130.2	137.2	144.3	149.5	155.9	164.2	175.1	183.4	186.6	191.8	192.5
77.5°	98.3	99.8	104.9	111.3	116.8	122.8	129.7	137.1	138.6	141.4	143.1
80°	80.8	80.8	80.8	84.6	91.0	95.6	102.0	105.8	108.4	109.1	109.7
82.5°	64.9	64.9	64.4	65.1	67.5	69.9	75.8	80.2	82.2	81.8	80.4
85°	42.3	41.1	41.1	40.4	41.1	39.8	39.1	41.7	45.5	45.5	44.3
87.5°	22.9	22.1	22.1	20.9	19.8	18.7	16.5	16.6	16.1	17.6	16.7
90°	27.2	26.3	23.1	20.0	16.8	13.7	10.8	8.4	5.9	3.5	1.1
92.5°	29.6	28.0	25.6	23.3	20.9	18.5	17.6	18.3	19.0	19.7	20.4
95°	35.6	33.9	31.3	28.6	25.9	23.3	26.9	36.9	46.8	56.8	66.8
97.5°	37.2	35.3	52.8	70.3	87.8	105.4	116.3	120.8	125.3	129.8	134.2
100°	38.1	36.1	74.1	112.1	150.1	187.9	204.5	199.6	194.8	189.9	185.0
102.5°	66.0	72.0	113.5	155.0	196.4	237.9	256.9	253.4	249.9	246.4	242.9
105°	196.7	239.8	261.7	283.6	305.5	327.4	337.1	334.3	331.7	329.0	326.3
107.5°	407.9	439.6	436.1	432.6	429.2	425.7	422.9	420.8	418.7	416.5	414.3
110°	485.9	493.9	491.2	488.5	485.9	483.1	480.9	478.9	476.9	475.0	473.1



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CATALOG NUMBER: S123RDIP-S1000D1195U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	549.2	549.0	546.4	543.8	541.0	538.4	536.1	534.4	532.6	530.8	529.1
115°	631.0	628.6	626.4	624.2	622.0	619.8	617.9	616.5	615.0	613.6	612.2
117.5°	707.6	705.7	704.6	703.4	702.3	701.2	699.7	698.0	696.1	694.3	692.5
120°	757.5	755.5	754.9	754.1	753.4	752.7	751.2	749.0	746.9	744.6	742.4
122.5°	806.9	805.5	804.6	803.7	802.8	801.8	800.5	798.6	796.8	795.0	793.2
125°	876.6	876.0	875.1	874.1	873.1	872.1	870.7	868.7	866.8	864.9	862.9
127.5°	945.2	944.3	943.2	942.1	940.8	939.7	938.1	936.2	934.2	932.3	930.4
130°	986.6	985.5	984.6	983.6	982.6	981.7	980.1	978.3	976.3	974.4	972.4
132.5°	1026.0	1025.0	1024.2	1023.4	1022.7	1021.8	1020.5	1018.5	1016.6	1014.6	1012.7
135°	1085.9	1085.2	1084.2	1083.3	1082.3	1081.3	1080.1	1078.6	1077.1	1075.7	1074.2
137.5°	1138.7	1137.6	1137.0	1136.5	1136.0	1135.4	1134.3	1132.4	1130.5	1128.7	1126.8
140°	1172.7	1171.7	1171.0	1170.3	1169.5	1168.8	1167.7	1166.2	1164.8	1163.3	1161.9
142.5°	1204.9	1204.1	1203.4	1202.7	1201.9	1201.2	1200.1	1198.6	1197.2	1195.7	1194.3
145°	1249.9	1249.4	1249.0	1248.5	1248.0	1247.5	1246.4	1244.7	1243.0	1241.3	1239.6
147.5°	1290.1	1289.5	1289.0	1288.5	1288.1	1287.6	1286.8	1285.6	1284.6	1283.5	1282.3
150°	1314.6	1314.1	1313.6	1313.1	1312.6	1312.1	1311.5	1310.8	1310.0	1309.3	1308.6
152.5°	1336.0	1335.1	1334.8	1334.5	1334.2	1333.9	1333.6	1333.2	1332.9	1332.6	1332.3
155°	1365.6	1364.4	1364.2	1364.0	1363.7	1363.5	1363.6	1364.0	1364.5	1365.1	1365.6
157.5°	1391.6	1390.1	1390.3	1390.5	1390.8	1391.0	1391.2	1391.2	1391.3	1391.3	1391.4
160°	1406.5	1405.0	1405.2	1405.4	1405.7	1405.9	1406.2	1406.5	1406.7	1406.9	1407.1
162.5°	1419.8	1418.1	1418.3	1418.6	1418.8	1419.1	1419.5	1420.1	1420.8	1421.4	1422.0
165°	1437.6	1435.6	1435.9	1436.1	1436.3	1436.6	1437.1	1437.8	1438.5	1439.3	1440.0
167.5°	1451.6	1449.6	1449.6	1449.6	1449.6	1449.6	1450.1	1451.1	1452.1	1453.0	1454.1
170°	1459.4	1457.5	1457.5	1457.5	1457.5	1457.5	1458.0	1459.0	1460.0	1460.9	1461.9
172.5°	1464.7	1462.7	1462.5	1462.4	1462.2	1462.0	1462.4	1463.7	1464.8	1466.0	1467.2
175°	1471.3	1469.5	1469.3	1469.0	1468.9	1468.6	1469.0	1470.3	1471.5	1472.7	1473.9
177.5°	1473.8	1472.2	1472.0	1471.8	1471.6	1471.4	1471.8	1472.8	1473.8	1474.7	1475.7
180°	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4
2.5°	1506.6	1512.2	1519.4	1530.2	1538.4	1545.6	1547.1	1549.2	1554.3	1563.0	1569.7
5°	1516.4	1531.1	1554.8	1577.9	1603.0	1623.4	1642.7	1656.1	1669.0	1695.9	1717.8
7.5°	1513.3	1546.1	1583.3	1624.8	1666.7	1707.3	1745.1	1778.9	1812.4	1851.7	1896.5
10°	1511.2	1549.7	1599.7	1652.9	1711.4	1768.4	1823.6	1866.6	1916.6	1961.5	2018.5
12.5°	1501.5	1556.9	1616.6	1684.8	1756.5	1822.3	1894.9	1954.3	2011.6	2076.4	2142.8
15°	1488.7	1556.1	1631.8	1722.2	1831.3	1910.8	1985.2	2088.5	2159.1	2229.6	2324.6
17.5°	1465.6	1547.7	1642.3	1759.8	1850.8	1957.7	2069.6	2151.3	2246.3	2345.7	2431.7
20°	1447.1	1542.7	1648.5	1764.0	1880.0	1996.1	2104.5	2202.1	2300.2	2415.0	2485.6
22.5°	1428.6	1523.1	1633.0	1755.8	1880.6	2002.8	2125.5	2240.0	2350.4	2466.3	2556.4
25°	1389.3	1501.6	1620.9	1746.0	1869.2	2003.8	2150.0	2277.7	2414.3	2533.6	2618.9
27.5°	1349.5	1452.5	1571.2	1698.1	1835.0	1994.2	2166.2	2311.3	2448.3	2533.6	2560.5
30°	1313.6	1422.7	1531.7	1660.7	1808.8	1986.5	2169.4	2335.4	2447.7	2484.9	2457.3
32.5°	1277.2	1376.0	1484.0	1616.0	1773.4	1967.6	2173.4	2321.1	2388.7	2360.2	2248.0
35°	1213.0	1302.1	1406.7	1538.8	1719.7	1957.0	2156.5	2256.5	2239.9	2079.5	1867.8
37.5°	1144.2	1216.8	1313.6	1451.8	1664.0	1915.3	2083.6	2098.4	1954.1	1707.9	1463.4
40°	1089.8	1155.2	1254.6	1398.9	1620.9	1874.2	2010.3	1950.6	1726.7	1452.8	1248.9
42.5°	1036.9	1092.1	1187.9	1343.5	1579.9	1818.4	1900.9	1771.0	1512.8	1253.8	1068.3
45°	947.3	999.4	1095.5	1255.3	1495.8	1711.4	1700.4	1474.6	1216.2	1007.7	853.8
47.5°	862.4	907.9	998.2	1161.2	1397.1	1551.0	1449.0	1208.7	989.5	822.2	712.4
50°	802.4	847.3	937.2	1098.2	1318.1	1430.4	1284.8	1053.2	852.4	713.9	626.7
52.5°	745.0	788.8	870.9	1027.8	1222.7	1289.8	1133.4	918.8	751.4	631.8	556.9
55°	664.5	697.9	771.7	921.7	1067.3	1082.7	924.3	744.7	606.8	523.4	472.1
57.5°	582.6	611.2	684.2	803.7	905.8	897.9	747.6	592.3	499.5	437.4	400.3
60°	529.1	557.4	621.5	724.2	801.2	774.2	636.3	511.2	431.7	386.2	356.7
62.5°	479.4	501.4	561.5	636.4	691.8	661.3	543.9	440.5	377.3	338.9	315.6
65°	407.3	425.3	473.3	512.5	543.3	513.8	416.3	344.4	298.9	271.9	255.9
67.5°	338.8	350.2	380.6	394.7	416.4	384.1	313.0	264.9	239.0	216.3	205.1
70°	295.7	304.1	320.1	331.6	337.4	304.1	251.5	216.1	194.4	178.3	171.3
72.5°	252.6	260.0	263.2	272.6	269.7	238.4	202.2	174.1	158.4	147.5	138.5
75°	193.0	196.2	193.0	189.3	180.9	159.1	134.0	120.0	108.4	103.3	100.1
77.5°	140.7	139.7	135.3	129.3	115.1	101.3	87.8	83.1	78.1	75.4	74.3
80°	108.4	105.8	102.0	92.4	80.2	70.6	67.4	64.2	62.2	59.0	58.3
82.5°	80.7	79.2	72.8	64.7	56.1	51.6	48.9	47.7	45.8	44.1	44.0
85°	43.0	41.1	34.0	29.5	28.2	27.0	26.3	26.3	23.8	23.1	23.1
87.5°	14.5	12.0	12.0	10.9	11.4	11.0	12.2	11.8	12.0	12.6	11.8
90°	3.5	5.9	8.4	10.8	13.7	16.8	20.0	23.1	26.3	27.2	28.2
92.5°	19.7	19.0	18.3	17.6	18.5	20.9	23.3	25.6	28.0	29.6	31.1
95°	56.8	46.8	36.9	26.9	23.3	25.9	28.6	31.3	33.9	35.6	37.3
97.5°	129.8	125.3	120.8	116.3	105.4	87.8	70.3	52.8	35.3	37.2	39.1
100°	189.9	194.8	199.6	204.5	187.9	150.1	112.1	74.1	36.1	38.1	40.1
102.5°	246.4	249.9	253.4	256.9	237.9	196.4	155.0	113.5	72.0	66.0	59.9
105°	329.0	331.7	334.3	337.1	327.4	305.5	283.6	261.7	239.8	196.7	153.6
107.5°	416.5	418.7	420.8	422.9	425.7	429.2	432.6	436.1	439.6	407.9	376.4
110°	475.0	476.9	478.9	480.9	483.1	485.9	488.5	491.2	493.9	485.9	477.8



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	530.8	532.6	534.4	536.1	538.4	541.0	543.8	546.4	549.0	549.2	549.3
115°	613.6	615.0	616.5	617.9	619.8	622.0	624.2	626.4	628.6	631.0	633.4
117.5°	694.3	696.1	698.0	699.7	701.2	702.3	703.4	704.6	705.7	707.6	709.5
120°	744.6	746.9	749.0	751.2	752.7	753.4	754.1	754.9	755.5	757.5	759.5
122.5°	795.0	796.8	798.6	800.5	801.8	802.8	803.7	804.6	805.5	806.9	808.2
125°	864.9	866.8	868.7	870.7	872.1	873.1	874.1	875.1	876.0	876.6	877.0
127.5°	932.3	934.2	936.2	938.1	939.7	940.8	942.1	943.2	944.3	945.2	945.9
130°	974.4	976.3	978.3	980.1	981.7	982.6	983.6	984.6	985.5	986.6	987.5
132.5°	1014.6	1016.6	1018.5	1020.5	1021.8	1022.7	1023.4	1024.2	1025.0	1026.0	1026.9
135°	1075.7	1077.1	1078.6	1080.1	1081.3	1082.3	1083.3	1084.2	1085.2	1085.9	1086.7
137.5°	1128.7	1130.5	1132.4	1134.3	1135.4	1136.0	1136.5	1137.0	1137.6	1138.7	1139.9
140°	1163.3	1164.8	1166.2	1167.7	1168.8	1169.5	1170.3	1171.0	1171.7	1172.7	1173.7
142.5°	1195.7	1197.2	1198.6	1200.1	1201.2	1201.9	1202.7	1203.4	1204.1	1204.9	1205.7
145°	1241.3	1243.0	1244.7	1246.4	1247.5	1248.0	1248.5	1249.0	1249.4	1249.9	1250.5
147.5°	1283.5	1284.6	1285.6	1286.8	1287.6	1288.1	1288.5	1289.0	1289.5	1290.1	1290.5
150°	1309.3	1310.0	1310.8	1311.5	1312.1	1312.6	1313.1	1313.6	1314.1	1314.6	1315.0
152.5°	1332.6	1332.9	1333.2	1333.6	1333.9	1334.2	1334.5	1334.8	1335.1	1336.0	1336.8
155°	1365.1	1364.5	1364.0	1363.6	1363.5	1363.7	1364.0	1364.2	1364.4	1365.6	1366.9
157.5°	1391.3	1391.3	1391.2	1391.2	1391.0	1390.8	1390.5	1390.3	1390.1	1391.6	1393.0
160°	1406.9	1406.7	1406.5	1406.2	1405.9	1405.7	1405.4	1405.2	1405.0	1406.5	1407.9
162.5°	1421.4	1420.8	1420.1	1419.5	1419.1	1418.8	1418.6	1418.3	1418.1	1419.8	1421.4
165°	1439.3	1438.5	1437.8	1437.1	1436.6	1436.3	1436.1	1435.9	1435.6	1437.6	1439.5
167.5°	1453.0	1452.1	1451.1	1450.1	1449.6	1449.6	1449.6	1449.6	1449.6	1451.6	1453.5
170°	1460.9	1460.0	1459.0	1458.0	1457.5	1457.5	1457.5	1457.5	1457.5	1459.4	1461.4
172.5°	1466.0	1464.8	1463.7	1462.4	1462.0	1462.2	1462.4	1462.5	1462.7	1464.7	1466.7
175°	1472.7	1471.5	1470.3	1469.0	1468.6	1468.9	1469.0	1469.3	1469.5	1471.3	1473.0
177.5°	1474.7	1473.8	1472.8	1471.8	1471.4	1471.6	1471.8	1472.0	1472.2	1473.8	1475.3
180°	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4
2.5°	1580.5	1580.5	1582.5	1590.3	1591.3	1597.9	1595.9
5°	1737.0	1749.2	1753.7	1772.9	1784.4	1789.6	1779.3
7.5°	1928.4	1962.8	1979.1	1999.2	2017.0	2022.4	2008.5
10°	2067.9	2103.8	2134.0	2152.7	2169.9	2181.5	2196.2
12.5°	2202.9	2247.0	2275.7	2302.0	2319.8	2334.4	2336.8
15°	2349.6	2416.3	2466.9	2504.1	2522.7	2532.3	2528.6
17.5°	2497.5	2559.3	2595.4	2633.4	2659.1	2660.4	2661.2
20°	2581.2	2641.4	2683.1	2711.3	2740.2	2738.9	2745.3
22.5°	2637.0	2684.5	2716.5	2737.0	2746.9	2742.0	2743.3
25°	2663.2	2677.3	2671.5	2638.8	2630.5	2600.4	2605.5
27.5°	2528.3	2461.5	2392.6	2303.8	2233.7	2177.7	2180.6
30°	2345.0	2227.0	2092.4	1979.4	1878.1	1849.9	1789.6
32.5°	2089.1	1911.9	1754.2	1649.0	1562.0	1538.4	1485.8
35°	1654.9	1483.0	1320.7	1223.2	1184.7	1130.9	1130.2
37.5°	1286.3	1134.9	1049.1	976.0	937.6	905.0	901.8
40°	1082.1	964.0	899.3	846.7	808.9	784.5	778.7
42.5°	939.4	844.0	783.3	750.7	721.6	709.1	699.6
45°	767.1	703.0	660.6	631.1	617.7	608.0	602.9
47.5°	641.7	598.7	569.9	550.3	539.3	529.1	531.9
50°	573.4	538.2	517.0	498.4	490.0	483.0	483.6
52.5°	518.5	486.8	469.8	456.3	445.9	440.9	438.5
55°	440.0	420.1	402.8	393.2	387.4	380.4	378.4
57.5°	375.3	360.0	345.8	335.0	333.6	326.8	327.6
60°	332.2	319.4	307.9	302.1	297.7	291.8	293.8
62.5°	296.9	286.1	275.6	270.8	266.4	262.1	263.0
65°	243.1	232.8	226.4	223.9	222.0	220.0	218.1
67.5°	193.7	187.5	183.4	178.0	174.0	173.3	171.4
70°	163.0	154.6	147.5	140.4	138.6	137.9	138.6
72.5°	130.6	125.4	123.4	120.0	119.6	117.9	119.0
75°	98.1	96.2	94.9	92.4	92.4	92.4	92.4
77.5°	72.4	71.2	70.4	69.9	69.3	68.3	68.2
80°	56.5	55.8	54.5	54.5	53.9	54.5	53.9
82.5°	42.6	42.5	41.2	41.2	40.5	40.2	40.5
85°	21.8	21.2	22.4	21.2	21.8	20.5	21.8
87.5°	12.0	12.2	11.8	11.9	11.5	12.6	11.7
90°	29.2	30.2	30.9	31.4	31.9	32.3	32.9
92.5°	32.7	34.3	35.2	35.4	35.8	36.1	36.4
95°	39.0	40.7	41.6	41.6	41.6	41.6	41.6
97.5°	41.1	43.1	44.1	44.4	44.7	44.9	45.1
100°	41.9	43.9	45.1	45.2	45.5	45.7	46.0
102.5°	53.9	47.9	45.1	45.5	46.0	46.5	46.8
105°	110.6	67.5	46.3	46.8	47.2	47.7	48.2
107.5°	344.8	313.2	281.2	248.7	216.2	183.8	151.4
110°	469.8	461.8	440.4	405.6	370.7	335.9	301.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	549.5	549.7	546.0	538.7	531.3	524.0	516.6
115°	635.8	638.3	640.0	640.9	642.0	642.9	643.9
117.5°	711.5	713.4	714.5	714.7	714.9	715.1	715.3
120°	761.4	763.4	764.3	764.3	764.3	764.3	764.3
122.5°	809.6	811.0	811.7	811.9	812.1	812.4	812.6
125°	877.5	878.0	878.4	878.9	879.5	880.0	880.4
127.5°	946.7	947.4	947.6	947.2	946.7	946.2	945.7
130°	988.4	989.5	989.7	989.2	988.7	988.3	987.8
132.5°	1027.9	1028.9	1029.0	1028.3	1027.7	1027.0	1026.2
135°	1087.4	1088.2	1088.2	1087.4	1086.7	1085.9	1085.2
137.5°	1141.0	1142.2	1142.6	1142.1	1141.6	1141.1	1140.6
140°	1174.6	1175.6	1175.8	1175.4	1174.9	1174.4	1173.9
142.5°	1206.5	1207.2	1207.3	1206.6	1205.9	1205.2	1204.6
145°	1250.9	1251.4	1251.6	1251.6	1251.6	1251.6	1251.6
147.5°	1291.0	1291.5	1291.2	1290.1	1288.9	1287.8	1286.7
150°	1315.5	1316.0	1315.9	1315.1	1314.5	1313.7	1313.0
152.5°	1337.8	1338.6	1338.5	1337.4	1336.2	1335.1	1334.0
155°	1368.1	1369.3	1369.1	1367.7	1366.3	1364.8	1363.4
157.5°	1394.4	1395.9	1395.7	1393.8	1391.9	1390.0	1388.1
160°	1409.3	1410.8	1410.7	1409.0	1407.3	1405.5	1403.8
162.5°	1423.1	1424.7	1424.7	1423.2	1421.7	1420.2	1418.7
165°	1441.4	1443.4	1443.5	1441.8	1440.1	1438.4	1436.7
167.5°	1455.5	1457.5	1457.5	1455.5	1453.5	1451.6	1449.6
170°	1463.4	1465.3	1465.3	1463.4	1461.4	1459.4	1457.5
172.5°	1468.6	1470.6	1470.5	1468.3	1466.2	1464.1	1461.9
175°	1474.7	1476.4	1476.2	1474.3	1472.3	1470.5	1468.5
177.5°	1476.9	1478.4	1478.2	1476.3	1474.3	1472.3	1470.5
180°	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9

(END OF REPORT)