

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: P331357-840

Luminaire Tested: **S122DIP-S675D925U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331357-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DIP-S675D925U840-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 675 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 925 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6697.8 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

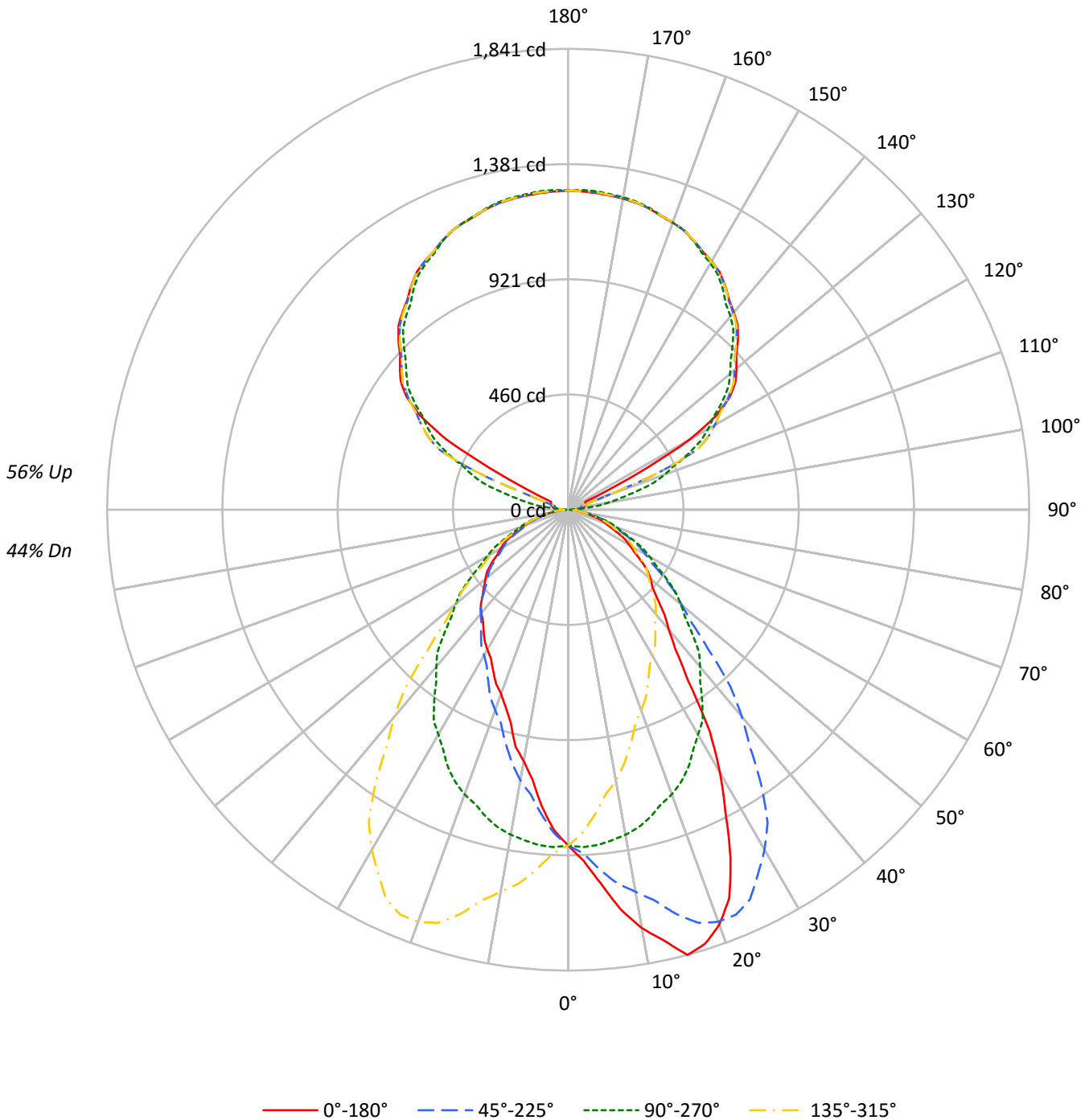
Input Watts (W): 52
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44					44			
1	97	93	89	86	89	85	82	79	71	69	67	58	56	55	46	45	44	38					38			
2	89	81	76	71	81	75	70	66	63	59	56	51	49	46	41	39	37	33					33			
3	81	72	65	59	74	66	60	55	56	51	47	46	42	40	36	34	32	28					28			
4	74	64	56	51	68	59	52	47	50	45	41	41	37	34	33	30	28	24					24			
5	68	57	49	44	62	53	46	41	45	39	35	37	33	30	30	27	25	22					22			
6	63	51	44	38	58	48	41	36	40	35	31	33	30	27	27	24	22	19					19			
7	58	47	39	33	53	43	36	31	37	31	27	31	27	24	25	22	20	17					17			
8	54	42	35	30	50	39	33	28	33	28	25	28	24	21	23	20	18	15					15			
9	51	39	31	26	46	36	29	25	31	26	22	26	22	19	21	18	16	14					14			
10	47	36	28	24	43	33	27	23	28	23	20	24	20	17	20	17	15	13					13			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	21658	21658	21658	21658
5°	24280	21797	19316	21797
10°	27824	21620	16718	21620
15°	30780	21224	14770	21224
20°	30311	20797	13464	20797
25°	27332	20232	12636	20232
30°	22585	19328	12033	19328
35°	16462	18382	11606	18382
40°	13148	17266	11367	17266
45°	11488	15972	11040	15972
50°	10798	14722	10826	14722
55°	9956	13453	10536	13453
60°	9122	12103	10091	12103
65°	8309	10892	9650	10892
70°	7544	9711	9007	9711
75°	6687	8390	7973	8390
80°	5755	6946	6425	6946
85°	5169	5169	3816	5169



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.7	1.9
10°-20°	371.4	5.5
20°-30°	539.0	8.0
30°-40°	568.8	8.5
40°-50°	503.6	7.5
50°-60°	401.9	6.0
60°-70°	273.2	4.1
70°-80°	140.0	2.1
80°-90°	36.9	0.6
90°-100°	42.5	0.6
100°-110°	155.9	2.3
110°-120°	416.8	6.2
120°-130°	688.0	10.3
130°-140°	731.7	10.9
140°-150°	680.1	10.2
150°-160°	546.8	8.2
160°-170°	352.3	5.3
170°-180°	121.3	1.8
0°-30°	1038.1	15.5
0°-40°	1606.9	24.0
0°-60°	2512.4	37.5
0°-90°	2962.5	44.2
90°-120°	615.2	9.2
90°-150°	2714.9	40.5
90°-180°	3735.0	55.8
0°-180°	6697.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1341	1341	1341	1341	1341	
5°	1498	1345	1192	1345	1498	150
15°	1841	1270	884	1270	1841	508
25°	1534	1136	709	1136	1534	693
35°	835	933	589	933	835	543
45°	503	700	484	700	503	396
55°	354	478	374	478	354	317
65°	218	285	253	285	218	216
75°	107	134	128	134	107	115
85°	28	28	21	28	28	31
90°	25	1	25	1	25	12
95°	40	60	40	60	40	37
105°	70	280	70	280	70	73
115°	76	530	76	530	76	189
125°	789	750	789	750	789	682
135°	958	928	958	928	958	739
145°	1093	1076	1093	1076	1093	683
155°	1186	1185	1186	1185	1186	547
165°	1246	1249	1246	1249	1246	352
175°	1270	1277	1270	1277	1270	121
180°	1275	1275	1275	1275	1275	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4
2.5°	1403.2	1403.6	1404.5	1397.9	1397.0	1397.0	1391.3	1386.3	1380.6	1372.7	1373.5
5°	1498.1	1503.8	1505.8	1499.6	1490.4	1489.3	1480.6	1466.1	1452.7	1441.9	1434.2
7.5°	1611.3	1613.6	1608.5	1600.3	1593.5	1581.1	1564.8	1548.8	1526.4	1505.9	1490.7
10°	1697.1	1700.2	1691.4	1679.6	1669.8	1655.4	1631.6	1607.4	1578.0	1549.6	1526.9
12.5°	1762.2	1769.9	1758.7	1757.1	1740.3	1720.5	1692.2	1680.0	1638.6	1599.1	1574.8
15°	1841.4	1840.9	1842.0	1832.2	1819.8	1816.6	1786.8	1754.3	1696.1	1672.8	1632.6
17.5°	1818.6	1826.3	1830.0	1829.9	1829.6	1827.7	1818.1	1797.6	1768.4	1730.7	1684.3
20°	1764.1	1774.4	1775.9	1787.9	1794.5	1803.3	1806.9	1801.2	1783.2	1751.7	1711.5
22.5°	1680.0	1682.8	1687.7	1706.2	1720.7	1742.6	1754.1	1773.2	1766.3	1750.9	1717.3
25°	1534.2	1529.0	1547.1	1556.3	1589.8	1624.9	1650.2	1678.0	1702.7	1717.7	1707.9
27.5°	1359.1	1351.4	1378.4	1403.0	1430.3	1468.2	1507.6	1554.1	1592.8	1641.1	1657.7
30°	1211.4	1216.1	1241.9	1268.2	1309.4	1363.0	1407.3	1458.4	1513.6	1567.7	1605.3
32.5°	1052.3	1070.2	1086.4	1126.7	1163.0	1222.8	1287.8	1351.6	1420.4	1481.9	1540.1
35°	835.2	855.8	878.5	907.9	958.9	1018.1	1081.6	1167.6	1261.5	1345.5	1414.6
37.5°	703.0	699.6	712.7	733.9	775.3	823.0	896.1	981.2	1091.6	1190.3	1287.8
40°	623.8	621.7	631.0	650.6	682.1	717.1	781.0	855.8	958.4	1078.9	1195.0
42.5°	569.4	570.6	575.7	589.6	611.1	640.0	687.8	751.4	845.4	959.0	1083.6
45°	503.1	506.8	512.4	519.2	531.5	555.2	582.0	627.4	701.7	796.5	919.2
47.5°	455.6	455.7	461.4	467.3	474.6	488.0	509.9	538.3	590.7	667.9	773.4
50°	429.9	426.4	430.5	435.0	442.8	452.1	466.6	493.3	528.4	590.8	678.9
52.5°	398.6	398.7	402.4	404.1	411.1	420.3	433.5	452.1	483.8	532.6	605.1
55°	353.7	356.2	358.3	361.3	367.6	374.3	384.6	397.0	421.7	458.3	511.9
57.5°	311.3	312.1	314.3	320.1	324.1	330.2	340.0	351.2	367.4	394.5	434.7
60°	282.5	282.5	286.6	289.2	294.4	300.5	308.3	319.1	333.6	355.7	388.2
62.5°	256.1	255.7	257.3	261.6	265.5	271.2	279.0	288.2	301.7	321.4	348.2
65°	217.5	216.5	219.6	220.7	224.8	230.5	236.6	246.4	257.2	271.7	295.4
67.5°	180.5	181.7	183.3	185.3	187.5	193.5	197.6	204.6	213.7	225.7	241.8
70°	159.8	159.8	159.8	161.4	164.4	167.5	171.7	177.3	186.1	196.4	210.9
72.5°	136.7	138.4	140.0	139.1	143.0	144.8	149.8	153.0	161.4	167.9	180.8
75°	107.2	107.2	107.2	109.8	111.4	112.9	116.0	119.1	123.2	131.5	138.1
77.5°	80.0	79.8	80.3	80.9	82.6	84.4	85.3	88.2	92.0	95.7	101.5
80°	61.9	62.9	63.4	64.4	64.4	65.4	65.9	69.6	72.2	74.7	78.4
82.5°	47.9	48.1	48.2	48.4	48.8	49.4	50.7	51.9	52.8	54.9	57.8
85°	27.9	27.4	27.4	28.4	27.9	27.9	28.9	29.9	29.9	30.4	31.9
87.5°	15.7	15.7	16.0	15.5	15.3	15.7	15.5	14.8	15.0	15.2	15.3
90°	24.9	24.5	24.0	23.6	23.2	22.5	21.5	20.5	19.5	18.5	16.8
92.5°	24.9	24.6	24.4	24.1	23.9	23.5	23.0	22.4	21.9	21.4	20.6
95°	39.7	39.9	40.1	40.3	40.5	40.1	39.1	38.0	37.0	36.0	34.5
97.5°	52.9	52.7	52.4	52.2	51.9	51.4	50.6	49.8	49.0	48.2	44.8
100°	61.8	61.4	61.0	60.6	60.2	59.2	57.5	55.8	54.2	52.6	49.1
102.5°	66.2	65.6	65.0	64.5	63.9	62.6	60.5	58.3	56.1	54.0	83.2
105°	70.1	69.3	68.5	67.7	66.9	65.2	63.0	60.8	58.5	56.2	112.2
107.5°	72.1	71.3	70.5	69.7	68.9	69.6	71.9	74.1	76.4	78.8	145.8
110°	72.9	72.0	71.2	70.4	69.6	79.4	99.9	120.4	140.9	161.4	220.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	73.6	72.9	72.3	71.6	71.0	108.1	182.8	257.6	332.3	407.1	421.7
115°	75.6	90.4	105.1	119.9	134.6	189.5	284.4	379.3	474.1	569.1	563.9
117.5°	308.8	357.3	405.8	454.2	502.7	538.5	561.5	584.4	607.3	630.3	626.8
120°	562.6	590.3	617.9	645.6	673.3	685.9	683.5	681.0	678.5	676.0	672.4
122.5°	702.1	707.4	712.8	718.2	723.6	725.5	724.0	722.6	721.0	719.6	715.6
125°	788.6	788.0	787.3	786.7	786.1	785.1	783.7	782.2	780.8	779.3	775.5
127.5°	843.1	843.0	842.9	842.8	842.6	841.6	839.5	837.4	835.3	833.2	830.3
130°	877.1	877.3	877.5	877.8	878.0	876.9	874.6	872.4	870.1	867.9	865.7
132.5°	910.3	910.5	910.7	910.9	911.1	910.3	908.4	906.5	904.5	902.5	900.3
135°	958.3	958.7	959.1	959.5	959.9	959.1	957.0	955.0	952.9	950.9	949.1
137.5°	1002.0	1002.7	1003.4	1004.1	1004.8	1004.1	1002.1	1000.1	998.0	996.1	994.0
140°	1029.3	1030.4	1031.4	1032.4	1033.4	1033.0	1031.2	1029.3	1027.4	1025.6	1023.4
142.5°	1055.8	1056.9	1057.9	1058.9	1060.0	1059.7	1057.9	1056.2	1054.6	1052.9	1050.4
145°	1093.0	1094.0	1095.0	1096.0	1097.0	1096.8	1095.4	1094.0	1092.5	1091.1	1087.6
147.5°	1125.6	1126.4	1127.3	1128.1	1129.0	1128.9	1127.8	1126.8	1125.7	1124.7	1121.3
150°	1145.5	1146.5	1147.5	1148.6	1149.6	1149.5	1148.3	1147.0	1145.8	1144.6	1141.3
152.5°	1162.5	1163.9	1165.2	1166.5	1167.9	1167.9	1166.7	1165.5	1164.3	1163.1	1159.9
155°	1186.1	1187.7	1189.3	1191.0	1192.7	1192.9	1191.6	1190.4	1189.1	1187.9	1185.5
157.5°	1207.7	1209.2	1210.8	1212.4	1214.1	1214.2	1212.7	1211.3	1210.0	1208.6	1206.9
160°	1220.2	1221.6	1223.0	1224.5	1226.0	1226.1	1224.9	1223.6	1222.3	1221.1	1219.9
162.5°	1230.5	1232.3	1234.1	1235.9	1237.6	1237.8	1236.4	1235.0	1233.6	1232.2	1231.1
165°	1246.1	1247.5	1248.9	1250.3	1251.7	1251.7	1250.3	1248.9	1247.5	1246.1	1245.5
167.5°	1255.8	1257.7	1259.5	1261.3	1263.1	1263.4	1261.9	1260.5	1259.1	1257.7	1257.1
170°	1261.7	1263.5	1265.4	1267.3	1269.1	1269.3	1267.9	1266.5	1265.0	1263.5	1263.1
172.5°	1266.2	1268.0	1269.8	1271.6	1273.5	1273.7	1272.3	1270.8	1269.4	1268.0	1267.6
175°	1270.0	1272.0	1274.1	1276.2	1278.2	1278.5	1277.1	1275.7	1274.2	1272.7	1272.3
177.5°	1272.4	1273.8	1275.4	1276.9	1278.3	1278.5	1277.4	1276.2	1275.1	1273.8	1273.7
180°	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4
2.5°	1376.4	1373.1	1371.1	1363.6	1357.1	1350.5	1348.4	1349.2	1340.2	1331.5	1327.8
5°	1430.1	1419.8	1410.0	1396.0	1379.6	1361.5	1352.2	1344.9	1327.0	1307.4	1296.1
7.5°	1478.1	1463.4	1444.5	1418.3	1394.3	1365.9	1347.9	1331.9	1305.5	1277.9	1260.9
10°	1507.4	1487.2	1463.0	1431.1	1401.7	1367.2	1342.9	1318.7	1287.8	1254.8	1234.2
12.5°	1532.6	1505.4	1481.6	1440.6	1405.8	1362.6	1333.8	1299.7	1267.2	1228.0	1207.8
15°	1592.5	1542.5	1497.0	1450.7	1407.9	1347.6	1315.7	1269.7	1226.9	1178.5	1155.3
17.5°	1638.7	1582.6	1511.1	1452.1	1402.2	1335.4	1288.5	1233.6	1183.0	1127.5	1096.0
20°	1665.2	1600.6	1523.9	1453.8	1393.9	1317.7	1266.7	1210.4	1151.1	1088.7	1054.7
22.5°	1680.8	1613.1	1537.1	1447.5	1377.5	1303.2	1239.0	1177.4	1117.3	1050.1	1014.3
25°	1685.8	1623.9	1543.5	1442.4	1356.9	1272.8	1195.5	1135.7	1063.0	1000.1	948.1
27.5°	1661.2	1616.9	1539.5	1432.7	1333.0	1234.8	1148.6	1080.9	1004.1	935.8	883.5
30°	1631.1	1605.3	1530.0	1422.8	1314.0	1208.4	1113.5	1036.7	960.4	891.3	837.7
32.5°	1584.5	1578.9	1512.8	1408.8	1293.8	1175.0	1076.8	999.2	914.6	846.8	795.7
35°	1493.0	1517.7	1475.9	1377.5	1255.8	1127.4	1021.3	932.6	845.0	780.0	732.1
37.5°	1370.3	1431.7	1420.8	1331.6	1204.5	1075.7	958.5	865.8	782.2	716.7	669.6
40°	1285.7	1364.0	1375.4	1296.6	1168.2	1035.7	911.4	819.2	737.7	677.9	630.5
42.5°	1195.0	1286.6	1317.7	1254.5	1128.5	993.6	869.4	773.8	693.2	635.0	593.0
45°	1042.9	1164.1	1220.2	1184.2	1062.5	924.3	796.5	699.5	626.3	571.7	539.3
47.5°	900.7	1033.1	1108.6	1095.9	989.0	852.1	725.8	632.8	561.5	517.9	488.8
50°	800.1	936.1	1027.4	1031.6	936.1	800.6	673.8	586.1	520.7	480.0	456.3
52.5°	712.7	842.5	942.1	963.9	877.2	747.0	627.2	540.0	482.3	444.8	423.6
55°	598.5	708.3	818.6	858.9	789.2	665.5	554.7	477.9	423.7	398.0	379.4
57.5°	497.6	589.2	691.1	735.5	692.6	586.6	482.7	416.1	372.1	349.5	335.3
60°	444.3	516.5	607.2	660.4	623.3	529.0	438.2	374.8	338.7	318.6	305.2
62.5°	394.9	458.8	535.5	584.1	563.9	474.9	393.6	337.7	306.5	287.6	278.0
65°	325.8	376.4	435.7	480.5	467.1	399.5	333.1	285.1	260.3	245.4	237.6
67.5°	268.3	304.8	345.9	385.2	374.4	326.5	273.2	235.8	217.3	204.5	199.9
70°	232.0	259.8	296.4	327.9	319.1	279.9	237.6	205.7	189.8	178.8	174.2
72.5°	197.3	220.3	248.1	273.9	267.9	235.4	200.2	176.0	163.7	153.7	149.9
75°	149.0	166.5	183.5	200.6	198.9	173.7	153.1	134.5	124.7	117.0	115.4
77.5°	110.0	119.8	131.4	141.5	138.7	124.2	108.1	97.5	90.2	85.0	84.2
80°	84.0	89.7	98.0	105.1	101.6	95.3	82.5	74.7	69.6	64.4	62.4
82.5°	60.9	66.7	71.6	75.4	72.7	67.0	59.0	53.7	50.6	47.2	46.3
85°	31.9	35.0	37.2	38.2	37.2	33.5	29.9	27.9	25.2	23.7	23.2
87.5°	15.5	15.0	14.7	15.1	13.5	13.0	10.9	9.3	9.3	9.3	9.0
90°	15.1	13.5	11.9	9.9	7.7	5.5	3.1	0.9	3.1	5.5	7.7
92.5°	19.8	19.0	18.1	17.8	18.0	18.2	18.4	18.6	18.4	18.2	18.0
95°	33.1	31.7	30.2	32.9	39.7	46.5	53.2	60.0	53.2	46.5	39.7
97.5°	41.5	38.2	34.8	42.7	61.8	80.9	99.9	119.0	99.9	80.9	61.8
100°	45.6	42.1	38.7	50.9	79.0	107.0	135.1	163.3	135.1	107.0	79.0
102.5°	112.3	141.5	170.7	188.1	194.1	200.1	206.0	212.0	206.0	200.1	194.1
105°	168.1	224.1	280.0	305.0	298.8	292.7	286.5	280.3	286.5	292.7	298.8
107.5°	213.0	280.0	347.2	378.3	373.2	368.3	363.3	358.4	363.3	368.3	373.2
110°	279.8	339.1	398.3	425.8	421.5	417.2	412.9	408.6	412.9	417.2	421.5



TEST NUMBER: P331357-840

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	436.4	451.0	465.6	471.0	467.3	463.4	459.6	455.8	459.6	463.4	467.3
115°	558.9	553.7	548.6	544.2	540.8	537.2	533.8	530.3	533.8	537.2	540.8
117.5°	623.3	619.8	616.2	612.5	608.6	604.7	600.8	596.9	600.8	604.7	608.6
120°	668.6	665.0	661.3	657.9	654.8	651.8	648.6	645.6	648.6	651.8	654.8
122.5°	711.6	707.5	703.5	699.8	696.6	693.4	690.1	686.9	690.1	693.4	696.6
125°	771.5	767.7	763.8	760.5	757.8	755.2	752.5	749.8	752.5	755.2	757.8
127.5°	827.4	824.5	821.5	818.6	815.7	812.7	809.8	806.8	809.8	812.7	815.7
130°	863.3	861.1	858.9	856.1	852.8	849.5	846.3	843.0	846.3	849.5	852.8
132.5°	898.1	895.9	893.5	891.0	888.3	885.4	882.6	879.9	882.6	885.4	888.3
135°	947.3	945.3	943.5	941.0	937.7	934.4	931.1	927.9	931.1	934.4	937.7
137.5°	991.9	989.8	987.7	985.5	983.2	981.0	978.7	976.3	978.7	981.0	983.2
140°	1021.1	1018.9	1016.6	1014.6	1013.0	1011.4	1009.8	1008.0	1009.8	1011.4	1013.0
142.5°	1047.7	1045.1	1042.6	1040.6	1039.1	1037.6	1036.1	1034.6	1036.1	1037.6	1039.1
145°	1084.1	1080.7	1077.1	1075.5	1075.7	1075.9	1076.1	1076.3	1076.1	1075.9	1075.7
147.5°	1117.8	1114.3	1110.9	1109.5	1110.3	1111.2	1111.9	1112.7	1111.9	1111.2	1110.3
150°	1138.0	1134.8	1131.5	1130.5	1132.0	1133.4	1134.9	1136.3	1134.9	1133.4	1132.0
152.5°	1156.8	1153.7	1150.5	1149.8	1151.4	1153.0	1154.6	1156.2	1154.6	1153.0	1151.4
155°	1183.1	1180.5	1178.1	1177.8	1179.6	1181.4	1183.4	1185.2	1183.4	1181.4	1179.6
157.5°	1205.2	1203.5	1201.7	1201.6	1203.2	1204.8	1206.3	1207.8	1206.3	1204.8	1203.2
160°	1218.7	1217.4	1216.2	1216.2	1217.4	1218.7	1219.9	1221.1	1219.9	1218.7	1217.4
162.5°	1230.0	1229.0	1227.9	1228.0	1229.2	1230.5	1231.7	1232.9	1231.7	1230.5	1229.2
165°	1244.8	1244.2	1243.5	1243.9	1245.1	1246.4	1247.6	1248.8	1247.6	1246.4	1245.1
167.5°	1256.5	1256.0	1255.4	1255.7	1256.9	1258.2	1259.4	1260.6	1259.4	1258.2	1256.9
170°	1262.7	1262.3	1261.9	1262.3	1263.5	1264.8	1266.0	1267.3	1266.0	1264.8	1263.5
172.5°	1267.2	1266.8	1266.4	1266.8	1268.0	1269.2	1270.4	1271.6	1270.4	1269.2	1268.0
175°	1271.9	1271.5	1271.1	1271.6	1273.0	1274.6	1276.0	1277.4	1276.0	1274.6	1273.0
177.5°	1273.5	1273.4	1273.2	1273.7	1274.9	1276.1	1277.2	1278.3	1277.2	1276.1	1274.9
180°	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7



TEST NUMBER: P331357-840

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4
2.5°	1323.6	1321.2	1312.5	1308.0	1300.5	1293.5	1289.0	1291.1	1292.7	1291.9	1290.6
5°	1285.7	1275.9	1260.9	1248.1	1238.8	1221.7	1214.6	1210.9	1207.9	1204.3	1200.6
7.5°	1240.5	1225.1	1203.7	1185.3	1167.9	1146.8	1134.8	1127.5	1120.1	1112.0	1104.8
10°	1208.4	1186.7	1164.1	1138.2	1117.6	1098.5	1081.6	1070.3	1060.0	1050.2	1042.9
12.5°	1174.6	1149.6	1121.6	1086.3	1063.6	1036.3	1033.7	1013.7	997.6	991.6	983.1
15°	1120.7	1085.7	1050.2	1008.4	990.3	965.5	950.1	934.6	920.7	910.9	908.4
17.5°	1059.6	1014.2	978.9	948.9	919.3	893.9	879.7	867.3	855.9	842.7	841.0
20°	1013.0	973.8	935.1	908.9	878.5	852.6	835.2	822.7	812.9	805.3	798.5
22.5°	968.9	925.9	890.6	861.8	831.8	811.0	797.2	785.3	777.1	768.5	762.2
25°	898.1	864.5	825.9	793.3	768.6	755.3	743.9	733.6	728.4	722.8	715.6
27.5°	836.1	798.8	762.7	737.5	715.8	703.9	695.8	688.8	684.0	680.6	676.6
30°	792.3	754.7	726.4	701.7	683.6	671.8	666.6	662.5	656.8	654.7	652.7
32.5°	750.3	716.4	692.2	670.7	653.5	645.7	641.0	637.3	632.9	630.8	626.6
35°	690.7	662.5	638.7	626.8	613.0	606.2	602.7	597.4	593.4	591.3	590.8
37.5°	634.8	610.2	594.6	579.4	573.5	569.4	564.4	560.9	559.7	559.4	558.9
40°	598.5	578.5	564.5	552.1	549.6	543.3	539.3	536.1	536.1	536.6	536.1
42.5°	565.5	547.4	535.2	524.5	521.5	517.8	513.6	513.4	514.3	516.0	514.3
45°	515.5	502.6	493.8	488.7	483.0	479.4	478.9	480.5	481.0	481.5	483.0
47.5°	469.5	461.0	453.0	447.4	444.8	444.2	443.6	446.4	448.8	449.7	452.1
50°	442.3	432.5	425.9	422.2	420.1	419.1	420.1	423.2	425.3	427.9	429.4
52.5°	411.8	404.9	400.2	397.5	396.7	397.3	397.5	401.0	404.2	405.2	406.0
55°	369.6	364.5	363.5	358.8	360.8	360.3	362.9	365.0	368.1	371.1	371.7
57.5°	327.6	323.5	320.6	321.0	321.6	324.0	326.1	329.7	333.1	336.3	336.6
60°	299.5	297.4	295.9	295.9	296.9	300.0	302.7	306.2	308.3	310.3	311.8
62.5°	274.0	271.9	270.3	271.1	273.9	275.7	278.7	280.6	282.7	284.8	285.5
65°	233.5	232.5	234.1	235.1	235.6	238.1	241.8	243.3	245.4	246.4	250.0
67.5°	196.3	196.5	196.3	197.7	200.8	201.4	204.8	208.3	208.7	210.8	213.1
70°	171.2	172.2	173.2	174.2	176.8	177.8	180.5	182.0	184.0	185.6	187.1
72.5°	148.0	148.2	149.3	149.1	151.3	153.5	155.7	157.2	159.3	161.3	162.8
75°	113.9	113.9	114.9	115.4	118.1	120.7	120.1	121.2	123.2	125.2	126.3
77.5°	83.2	82.1	83.2	83.7	84.5	86.7	87.2	88.6	90.9	90.2	91.4
80°	63.4	61.9	63.4	63.9	63.9	66.6	66.6	67.6	69.1	67.6	69.1
82.5°	45.2	44.5	45.6	45.7	46.6	46.7	47.6	47.8	49.3	48.6	49.3
85°	22.7	22.2	22.7	22.2	22.7	23.2	23.2	22.7	22.7	23.7	22.2
87.5°	9.0	9.0	8.9	9.2	9.1	9.1	8.9	9.1	9.3	8.6	8.8
90°	9.9	11.9	13.5	15.1	16.8	18.5	19.5	20.5	21.5	22.5	23.2
92.5°	17.8	18.1	19.0	19.8	20.6	21.4	21.9	22.4	23.0	23.5	23.9
95°	32.9	30.2	31.7	33.1	34.5	36.0	37.0	38.0	39.1	40.1	40.5
97.5°	42.7	34.8	38.2	41.5	44.8	48.2	49.0	49.8	50.6	51.4	51.9
100°	50.9	38.7	42.1	45.6	49.1	52.6	54.2	55.8	57.5	59.2	60.2
102.5°	188.1	170.7	141.5	112.3	83.2	54.0	56.1	58.3	60.5	62.6	63.9
105°	305.0	280.0	224.1	168.1	112.2	56.2	58.5	60.8	63.0	65.2	66.9
107.5°	378.3	347.2	280.0	213.0	145.8	78.8	76.4	74.1	71.9	69.6	68.9
110°	425.8	398.3	339.1	279.8	220.7	161.4	140.9	120.4	99.9	79.4	69.6



TEST NUMBER: P331357-840

CATALOG NUMBER: S122DIP-S675D925U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	471.0	465.6	451.0	436.4	421.7	407.1	332.3	257.6	182.8	108.1	71.0
115°	544.2	548.6	553.7	558.9	563.9	569.1	474.1	379.3	284.4	189.5	134.6
117.5°	612.5	616.2	619.8	623.3	626.8	630.3	607.3	584.4	561.5	538.5	502.7
120°	657.9	661.3	665.0	668.6	672.4	676.0	678.5	681.0	683.5	685.9	673.3
122.5°	699.8	703.5	707.5	711.6	715.6	719.6	721.0	722.6	724.0	725.5	723.6
125°	760.5	763.8	767.7	771.5	775.5	779.3	780.8	782.2	783.7	785.1	786.1
127.5°	818.6	821.5	824.5	827.4	830.3	833.2	835.3	837.4	839.5	841.6	842.6
130°	856.1	858.9	861.1	863.3	865.7	867.9	870.1	872.4	874.6	876.9	878.0
132.5°	891.0	893.5	895.9	898.1	900.3	902.5	904.5	906.5	908.4	910.3	911.1
135°	941.0	943.5	945.3	947.3	949.1	950.9	952.9	955.0	957.0	959.1	959.9
137.5°	985.5	987.7	989.8	991.9	994.0	996.1	998.0	1000.1	1002.1	1004.1	1004.8
140°	1014.6	1016.6	1018.9	1021.1	1023.4	1025.6	1027.4	1029.3	1031.2	1033.0	1033.4
142.5°	1040.6	1042.6	1045.1	1047.7	1050.4	1052.9	1054.6	1056.2	1057.9	1059.7	1060.0
145°	1075.5	1077.1	1080.7	1084.1	1087.6	1091.1	1092.5	1094.0	1095.4	1096.8	1097.0
147.5°	1109.5	1110.9	1114.3	1117.8	1121.3	1124.7	1125.7	1126.8	1127.8	1128.9	1129.0
150°	1130.5	1131.5	1134.8	1138.0	1141.3	1144.6	1145.8	1147.0	1148.3	1149.5	1149.6
152.5°	1149.8	1150.5	1153.7	1156.8	1159.9	1163.1	1164.3	1165.5	1166.7	1167.9	1167.9
155°	1177.8	1178.1	1180.5	1183.1	1185.5	1187.9	1189.1	1190.4	1191.6	1192.9	1192.7
157.5°	1201.6	1201.7	1203.5	1205.2	1206.9	1208.6	1210.0	1211.3	1212.7	1214.2	1214.1
160°	1216.2	1216.2	1217.4	1218.7	1219.9	1221.1	1222.3	1223.6	1224.9	1226.1	1226.0
162.5°	1228.0	1227.9	1229.0	1230.0	1231.1	1232.2	1233.6	1235.0	1236.4	1237.8	1237.6
165°	1243.9	1243.5	1244.2	1244.8	1245.5	1246.1	1247.5	1248.9	1250.3	1251.7	1251.7
167.5°	1255.7	1255.4	1256.0	1256.5	1257.1	1257.7	1259.1	1260.5	1261.9	1263.4	1263.1
170°	1262.3	1261.9	1262.3	1262.7	1263.1	1263.5	1265.0	1266.5	1267.9	1269.3	1269.1
172.5°	1266.8	1266.4	1266.8	1267.2	1267.6	1268.0	1269.4	1270.8	1272.3	1273.7	1273.5
175°	1271.6	1271.1	1271.5	1271.9	1272.3	1272.7	1274.2	1275.7	1277.1	1278.5	1278.2
177.5°	1273.7	1273.2	1273.4	1273.5	1273.7	1273.8	1275.1	1276.2	1277.4	1278.5	1278.3
180°	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7



TEST NUMBER: P331357-840

CATALOG NUMBER: S122DIP-S675D925U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4
2.5°	1286.6	1285.7	1285.7	1282.0	1285.7	1285.7	1286.6	1290.6	1291.9	1292.7	1291.1
5°	1193.5	1191.8	1189.3	1191.8	1189.3	1191.8	1193.5	1200.6	1204.3	1207.9	1210.9
7.5°	1101.4	1095.2	1094.3	1088.1	1094.3	1095.2	1101.4	1104.8	1112.0	1120.1	1127.5
10°	1034.1	1030.0	1029.5	1019.7	1029.5	1030.0	1034.1	1042.9	1050.2	1060.0	1070.3
12.5°	983.0	973.1	975.0	969.4	975.0	973.1	983.0	983.1	991.6	997.6	1013.7
15°	894.4	894.4	892.3	883.6	892.3	894.4	894.4	908.4	910.9	920.7	934.6
17.5°	830.8	829.8	824.9	827.3	824.9	829.8	830.8	841.0	842.7	855.9	867.3
20°	792.8	789.8	783.6	783.6	783.6	789.8	792.8	798.5	805.3	812.9	822.7
22.5°	757.0	756.8	750.2	752.2	750.2	756.8	757.0	762.2	768.5	777.1	785.3
25°	715.0	710.9	707.8	709.3	707.8	710.9	715.0	715.6	722.8	728.4	733.6
27.5°	675.2	673.0	672.8	668.5	672.8	673.0	675.2	676.6	680.6	684.0	688.8
30°	652.2	647.0	648.0	645.4	648.0	647.0	652.2	652.7	654.7	656.8	662.5
32.5°	625.7	623.9	622.9	620.7	622.9	623.9	625.7	626.6	630.8	632.9	637.3
35°	589.8	590.3	587.7	588.8	587.7	590.3	589.8	590.8	591.3	593.4	597.4
37.5°	558.4	560.0	558.8	559.1	558.8	560.0	558.4	558.9	559.4	559.7	560.9
40°	537.7	537.7	537.7	539.3	537.7	537.7	537.7	536.1	536.6	536.1	536.1
42.5°	517.9	517.1	516.2	516.1	516.2	517.1	517.9	514.3	516.0	514.3	513.4
45°	484.0	485.6	486.1	483.5	486.1	485.6	484.0	483.0	481.5	481.0	480.5
47.5°	453.4	453.6	453.4	455.8	453.4	453.6	453.4	452.1	449.7	448.8	446.4
50°	432.0	431.0	432.0	431.0	432.0	431.0	432.0	429.4	427.9	425.3	423.2
52.5°	409.3	409.5	408.9	408.7	408.9	409.5	409.3	406.0	405.2	404.2	401.0
55°	373.8	374.8	374.3	374.3	374.3	374.8	373.8	371.7	371.1	368.1	365.0
57.5°	337.0	337.9	338.6	336.3	338.6	337.9	337.0	336.6	336.3	333.1	329.7
60°	311.3	314.0	313.5	312.5	313.5	314.0	311.3	311.8	310.3	308.3	306.2
62.5°	287.9	288.8	288.7	288.5	288.7	288.8	287.9	285.5	284.8	282.7	280.6
65°	251.6	252.6	251.1	252.6	251.1	252.6	251.6	250.0	246.4	245.4	243.3
67.5°	212.5	212.8	214.0	214.7	214.0	212.8	212.5	213.1	210.8	208.7	208.3
70°	188.1	187.6	189.1	190.8	189.1	187.6	188.1	187.1	185.6	184.0	182.0
72.5°	162.6	163.7	163.2	164.3	163.2	163.7	162.6	162.8	161.3	159.3	157.2
75°	125.2	126.8	126.3	127.8	126.3	126.8	125.2	126.3	125.2	123.2	121.2
77.5°	90.5	90.7	90.5	91.4	90.5	90.7	90.5	91.4	90.2	90.9	88.6
80°	69.1	68.1	67.1	69.1	67.1	68.1	69.1	69.1	67.6	69.1	67.6
82.5°	48.1	48.7	47.7	47.7	47.7	48.7	48.1	49.3	48.6	49.3	47.8
85°	22.2	21.6	20.6	20.6	20.6	21.6	22.2	22.2	23.7	22.7	22.7
87.5°	8.9	8.5	8.6	8.3	8.6	8.5	8.9	8.8	8.6	9.3	9.1
90°	23.6	24.0	24.5	24.9	24.5	24.0	23.6	23.2	22.5	21.5	20.5
92.5°	24.1	24.4	24.6	24.9	24.6	24.4	24.1	23.9	23.5	23.0	22.4
95°	40.3	40.1	39.9	39.7	39.9	40.1	40.3	40.5	40.1	39.1	38.0
97.5°	52.2	52.4	52.7	52.9	52.7	52.4	52.2	51.9	51.4	50.6	49.8
100°	60.6	61.0	61.4	61.8	61.4	61.0	60.6	60.2	59.2	57.5	55.8
102.5°	64.5	65.0	65.6	66.2	65.6	65.0	64.5	63.9	62.6	60.5	58.3
105°	67.7	68.5	69.3	70.1	69.3	68.5	67.7	66.9	65.2	63.0	60.8
107.5°	69.7	70.5	71.3	72.1	71.3	70.5	69.7	68.9	69.6	71.9	74.1
110°	70.4	71.2	72.0	72.9	72.0	71.2	70.4	69.6	79.4	99.9	120.4



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	71.6	72.3	72.9	73.6	72.9	72.3	71.6	71.0	108.1	182.8	257.6
115°	119.9	105.1	90.4	75.6	90.4	105.1	119.9	134.6	189.5	284.4	379.3
117.5°	454.2	405.8	357.3	308.8	357.3	405.8	454.2	502.7	538.5	561.5	584.4
120°	645.6	617.9	590.3	562.6	590.3	617.9	645.6	673.3	685.9	683.5	681.0
122.5°	718.2	712.8	707.4	702.1	707.4	712.8	718.2	723.6	725.5	724.0	722.6
125°	786.7	787.3	788.0	788.6	788.0	787.3	786.7	786.1	785.1	783.7	782.2
127.5°	842.8	842.9	843.0	843.1	843.0	842.9	842.8	842.6	841.6	839.5	837.4
130°	877.8	877.5	877.3	877.1	877.3	877.5	877.8	878.0	876.9	874.6	872.4
132.5°	910.9	910.7	910.5	910.3	910.5	910.7	910.9	911.1	910.3	908.4	906.5
135°	959.5	959.1	958.7	958.3	958.7	959.1	959.5	959.9	959.1	957.0	955.0
137.5°	1004.1	1003.4	1002.7	1002.0	1002.7	1003.4	1004.1	1004.8	1004.1	1002.1	1000.1
140°	1032.4	1031.4	1030.4	1029.3	1030.4	1031.4	1032.4	1033.4	1033.0	1031.2	1029.3
142.5°	1058.9	1057.9	1056.9	1055.8	1056.9	1057.9	1058.9	1060.0	1059.7	1057.9	1056.2
145°	1096.0	1095.0	1094.0	1093.0	1094.0	1095.0	1096.0	1097.0	1096.8	1095.4	1094.0
147.5°	1128.1	1127.3	1126.4	1125.6	1126.4	1127.3	1128.1	1129.0	1128.9	1127.8	1126.8
150°	1148.6	1147.5	1146.5	1145.5	1146.5	1147.5	1148.6	1149.6	1149.5	1148.3	1147.0
152.5°	1166.5	1165.2	1163.9	1162.5	1163.9	1165.2	1166.5	1167.9	1167.9	1166.7	1165.5
155°	1191.0	1189.3	1187.7	1186.1	1187.7	1189.3	1191.0	1192.7	1192.9	1191.6	1190.4
157.5°	1212.4	1210.8	1209.2	1207.7	1209.2	1210.8	1212.4	1214.1	1214.2	1212.7	1211.3
160°	1224.5	1223.0	1221.6	1220.2	1221.6	1223.0	1224.5	1226.0	1226.1	1224.9	1223.6
162.5°	1235.9	1234.1	1232.3	1230.5	1232.3	1234.1	1235.9	1237.6	1237.8	1236.4	1235.0
165°	1250.3	1248.9	1247.5	1246.1	1247.5	1248.9	1250.3	1251.7	1251.7	1250.3	1248.9
167.5°	1261.3	1259.5	1257.7	1255.8	1257.7	1259.5	1261.3	1263.1	1263.4	1261.9	1260.5
170°	1267.3	1265.4	1263.5	1261.7	1263.5	1265.4	1267.3	1269.1	1269.3	1267.9	1266.5
172.5°	1271.6	1269.8	1268.0	1266.2	1268.0	1269.8	1271.6	1273.5	1273.7	1272.3	1270.8
175°	1276.2	1274.1	1272.0	1270.0	1272.0	1274.1	1276.2	1278.2	1278.5	1277.1	1275.7
177.5°	1276.9	1275.4	1273.8	1272.4	1273.8	1275.4	1276.9	1278.3	1278.5	1277.4	1276.2
180°	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4
2.5°	1289.0	1293.5	1300.5	1308.0	1312.5	1321.2	1323.6	1327.8	1331.5	1340.2	1349.2
5°	1214.6	1221.7	1238.8	1248.1	1260.9	1275.9	1285.7	1296.1	1307.4	1327.0	1344.9
7.5°	1134.8	1146.8	1167.9	1185.3	1203.7	1225.1	1240.5	1260.9	1277.9	1305.5	1331.9
10°	1081.6	1098.5	1117.6	1138.2	1164.1	1186.7	1208.4	1234.2	1254.8	1287.8	1318.7
12.5°	1033.7	1036.3	1063.6	1086.3	1121.6	1149.6	1174.6	1207.8	1228.0	1267.2	1299.7
15°	950.1	965.5	990.3	1008.4	1050.2	1085.7	1120.7	1155.3	1178.5	1226.9	1269.7
17.5°	879.7	893.9	919.3	948.9	978.9	1014.2	1059.6	1096.0	1127.5	1183.0	1233.6
20°	835.2	852.6	878.5	908.9	935.1	973.8	1013.0	1054.7	1088.7	1151.1	1210.4
22.5°	797.2	811.0	831.8	861.8	890.6	925.9	968.9	1014.3	1050.1	1117.3	1177.4
25°	743.9	755.3	768.6	793.3	825.9	864.5	898.1	948.1	1000.1	1063.0	1135.7
27.5°	695.8	703.9	715.8	737.5	762.7	798.8	836.1	883.5	935.8	1004.1	1080.9
30°	666.6	671.8	683.6	701.7	726.4	754.7	792.3	837.7	891.3	960.4	1036.7
32.5°	641.0	645.7	653.5	670.7	692.2	716.4	750.3	795.7	846.8	914.6	999.2
35°	602.7	606.2	613.0	626.8	638.7	662.5	690.7	732.1	780.0	845.0	932.6
37.5°	564.4	569.4	573.5	579.4	594.6	610.2	634.8	669.6	716.7	782.2	865.8
40°	539.3	543.3	549.6	552.1	564.5	578.5	598.5	630.5	677.9	737.7	819.2
42.5°	513.6	517.8	521.5	524.5	535.2	547.4	565.5	593.0	635.0	693.2	773.8
45°	478.9	479.4	483.0	488.7	493.8	502.6	515.5	539.3	571.7	626.3	699.5
47.5°	443.6	444.2	444.8	447.4	453.0	461.0	469.5	488.8	517.9	561.5	632.8
50°	420.1	419.1	420.1	422.2	425.9	432.5	442.3	456.3	480.0	520.7	586.1
52.5°	397.5	397.3	396.7	397.5	400.2	404.9	411.8	423.6	444.8	482.3	540.0
55°	362.9	360.3	360.8	358.8	363.5	364.5	369.6	379.4	398.0	423.7	477.9
57.5°	326.1	324.0	321.6	321.0	320.6	323.5	327.6	335.3	349.5	372.1	416.1
60°	302.7	300.0	296.9	295.9	295.9	297.4	299.5	305.2	318.6	338.7	374.8
62.5°	278.7	275.7	273.9	271.1	270.3	271.9	274.0	278.0	287.6	306.5	337.7
65°	241.8	238.1	235.6	235.1	234.1	232.5	233.5	237.6	245.4	260.3	285.1
67.5°	204.8	201.4	200.8	197.7	196.3	196.5	196.3	199.9	204.5	217.3	235.8
70°	180.5	177.8	176.8	174.2	173.2	172.2	171.2	174.2	178.8	189.8	205.7
72.5°	155.7	153.5	151.3	149.1	149.3	148.2	148.0	149.9	153.7	163.7	176.0
75°	120.1	120.7	118.1	115.4	114.9	113.9	113.9	115.4	117.0	124.7	134.5
77.5°	87.2	86.7	84.5	83.7	83.2	82.1	83.2	84.2	85.0	90.2	97.5
80°	66.6	66.6	63.9	63.9	63.4	61.9	63.4	62.4	64.4	69.6	74.7
82.5°	47.6	46.7	46.6	45.7	45.6	44.5	45.2	46.3	47.2	50.6	53.7
85°	23.2	23.2	22.7	22.2	22.7	22.2	22.7	23.2	23.7	25.2	27.9
87.5°	8.9	9.1	9.1	9.2	8.9	9.0	9.0	9.0	9.3	9.3	9.3
90°	19.5	18.5	16.8	15.1	13.5	11.9	9.9	7.7	5.5	3.1	0.9
92.5°	21.9	21.4	20.6	19.8	19.0	18.1	17.8	18.0	18.2	18.4	18.6
95°	37.0	36.0	34.5	33.1	31.7	30.2	32.9	39.7	46.5	53.2	60.0
97.5°	49.0	48.2	44.8	41.5	38.2	34.8	42.7	61.8	80.9	99.9	119.0
100°	54.2	52.6	49.1	45.6	42.1	38.7	50.9	79.0	107.0	135.1	163.3
102.5°	56.1	54.0	83.2	112.3	141.5	170.7	188.1	194.1	200.1	206.0	212.0
105°	58.5	56.2	112.2	168.1	224.1	280.0	305.0	298.8	292.7	286.5	280.3
107.5°	76.4	78.8	145.8	213.0	280.0	347.2	378.3	373.2	368.3	363.3	358.4
110°	140.9	161.4	220.7	279.8	339.1	398.3	425.8	421.5	417.2	412.9	408.6



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	332.3	407.1	421.7	436.4	451.0	465.6	471.0	467.3	463.4	459.6	455.8
115°	474.1	569.1	563.9	558.9	553.7	548.6	544.2	540.8	537.2	533.8	530.3
117.5°	607.3	630.3	626.8	623.3	619.8	616.2	612.5	608.6	604.7	600.8	596.9
120°	678.5	676.0	672.4	668.6	665.0	661.3	657.9	654.8	651.8	648.6	645.6
122.5°	721.0	719.6	715.6	711.6	707.5	703.5	699.8	696.6	693.4	690.1	686.9
125°	780.8	779.3	775.5	771.5	767.7	763.8	760.5	757.8	755.2	752.5	749.8
127.5°	835.3	833.2	830.3	827.4	824.5	821.5	818.6	815.7	812.7	809.8	806.8
130°	870.1	867.9	865.7	863.3	861.1	858.9	856.1	852.8	849.5	846.3	843.0
132.5°	904.5	902.5	900.3	898.1	895.9	893.5	891.0	888.3	885.4	882.6	879.9
135°	952.9	950.9	949.1	947.3	945.3	943.5	941.0	937.7	934.4	931.1	927.9
137.5°	998.0	996.1	994.0	991.9	989.8	987.7	985.5	983.2	981.0	978.7	976.3
140°	1027.4	1025.6	1023.4	1021.1	1018.9	1016.6	1014.6	1013.0	1011.4	1009.8	1008.0
142.5°	1054.6	1052.9	1050.4	1047.7	1045.1	1042.6	1040.6	1039.1	1037.6	1036.1	1034.6
145°	1092.5	1091.1	1087.6	1084.1	1080.7	1077.1	1075.5	1075.7	1075.9	1076.1	1076.3
147.5°	1125.7	1124.7	1121.3	1117.8	1114.3	1110.9	1109.5	1110.3	1111.2	1111.9	1112.7
150°	1145.8	1144.6	1141.3	1138.0	1134.8	1131.5	1130.5	1132.0	1133.4	1134.9	1136.3
152.5°	1164.3	1163.1	1159.9	1156.8	1153.7	1150.5	1149.8	1151.4	1153.0	1154.6	1156.2
155°	1189.1	1187.9	1185.5	1183.1	1180.5	1178.1	1177.8	1179.6	1181.4	1183.4	1185.2
157.5°	1210.0	1208.6	1206.9	1205.2	1203.5	1201.7	1201.6	1203.2	1204.8	1206.3	1207.8
160°	1222.3	1221.1	1219.9	1218.7	1217.4	1216.2	1216.2	1217.4	1218.7	1219.9	1221.1
162.5°	1233.6	1232.2	1231.1	1230.0	1229.0	1227.9	1228.0	1229.2	1230.5	1231.7	1232.9
165°	1247.5	1246.1	1245.5	1244.8	1244.2	1243.5	1243.9	1245.1	1246.4	1247.6	1248.8
167.5°	1259.1	1257.7	1257.1	1256.5	1256.0	1255.4	1255.7	1256.9	1258.2	1259.4	1260.6
170°	1265.0	1263.5	1263.1	1262.7	1262.3	1261.9	1262.3	1263.5	1264.8	1266.0	1267.3
172.5°	1269.4	1268.0	1267.6	1267.2	1266.8	1266.4	1266.8	1268.0	1269.2	1270.4	1271.6
175°	1274.2	1272.7	1272.3	1271.9	1271.5	1271.1	1271.6	1273.0	1274.6	1276.0	1277.4
177.5°	1275.1	1273.8	1273.7	1273.5	1273.4	1273.2	1273.7	1274.9	1276.1	1277.2	1278.3
180°	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4
2.5°	1348.4	1350.5	1357.1	1363.6	1371.1	1373.1	1376.4	1373.5	1372.7	1380.6	1386.3
5°	1352.2	1361.5	1379.6	1396.0	1410.0	1419.8	1430.1	1434.2	1441.9	1452.7	1466.1
7.5°	1347.9	1365.9	1394.3	1418.3	1444.5	1463.4	1478.1	1490.7	1505.9	1526.4	1548.8
10°	1342.9	1367.2	1401.7	1431.1	1463.0	1487.2	1507.4	1526.9	1549.6	1578.0	1607.4
12.5°	1333.8	1362.6	1405.8	1440.6	1481.6	1505.4	1532.6	1574.8	1599.1	1638.6	1680.0
15°	1315.7	1347.6	1407.9	1450.7	1497.0	1542.5	1592.5	1632.6	1672.8	1696.1	1754.3
17.5°	1288.5	1335.4	1402.2	1452.1	1511.1	1582.6	1638.7	1684.3	1730.7	1768.4	1797.6
20°	1266.7	1317.7	1393.9	1453.8	1523.9	1600.6	1665.2	1711.5	1751.7	1783.2	1801.2
22.5°	1239.0	1303.2	1377.5	1447.5	1537.1	1613.1	1680.8	1717.3	1750.9	1766.3	1773.2
25°	1195.5	1272.8	1356.9	1442.4	1543.5	1623.9	1685.8	1707.9	1717.7	1702.7	1678.0
27.5°	1148.6	1234.8	1333.0	1432.7	1539.5	1616.9	1661.2	1657.7	1641.1	1592.8	1554.1
30°	1113.5	1208.4	1314.0	1422.8	1530.0	1605.3	1631.1	1605.3	1567.7	1513.6	1458.4
32.5°	1076.8	1175.0	1293.8	1408.8	1512.8	1578.9	1584.5	1540.1	1481.9	1420.4	1351.6
35°	1021.3	1127.4	1255.8	1377.5	1475.9	1517.7	1493.0	1414.6	1345.5	1261.5	1167.6
37.5°	958.5	1075.7	1204.5	1331.6	1420.8	1431.7	1370.3	1287.8	1190.3	1091.6	981.2
40°	911.4	1035.7	1168.2	1296.6	1375.4	1364.0	1285.7	1195.0	1078.9	958.4	855.8
42.5°	869.4	993.6	1128.5	1254.5	1317.7	1286.6	1195.0	1083.6	959.0	845.4	751.4
45°	796.5	924.3	1062.5	1184.2	1220.2	1164.1	1042.9	919.2	796.5	701.7	627.4
47.5°	725.8	852.1	989.0	1095.9	1108.6	1033.1	900.7	773.4	667.9	590.7	538.3
50°	673.8	800.6	936.1	1031.6	1027.4	936.1	800.1	678.9	590.8	528.4	493.3
52.5°	627.2	747.0	877.2	963.9	942.1	842.5	712.7	605.1	532.6	483.8	452.1
55°	554.7	665.5	789.2	858.9	818.6	708.3	598.5	511.9	458.3	421.7	397.0
57.5°	482.7	586.6	692.6	735.5	691.1	589.2	497.6	434.7	394.5	367.4	351.2
60°	438.2	529.0	623.3	660.4	607.2	516.5	444.3	388.2	355.7	333.6	319.1
62.5°	393.6	474.9	563.9	584.1	535.5	458.8	394.9	348.2	321.4	301.7	288.2
65°	333.1	399.5	467.1	480.5	435.7	376.4	325.8	295.4	271.7	257.2	246.4
67.5°	273.2	326.5	374.4	385.2	345.9	304.8	268.3	241.8	225.7	213.7	204.6
70°	237.6	279.9	319.1	327.9	296.4	259.8	232.0	210.9	196.4	186.1	177.3
72.5°	200.2	235.4	267.9	273.9	248.1	220.3	197.3	180.8	167.9	161.4	153.0
75°	153.1	173.7	198.9	200.6	183.5	166.5	149.0	138.1	131.5	123.2	119.1
77.5°	108.1	124.2	138.7	141.5	131.4	119.8	110.0	101.5	95.7	92.0	88.2
80°	82.5	95.3	101.6	105.1	98.0	89.7	84.0	78.4	74.7	72.2	69.6
82.5°	59.0	67.0	72.7	75.4	71.6	66.7	60.9	57.8	54.9	52.8	51.9
85°	29.9	33.5	37.2	38.2	37.2	35.0	31.9	31.9	30.4	29.9	29.9
87.5°	10.9	13.0	13.5	15.1	14.7	15.0	15.5	15.3	15.2	15.0	14.8
90°	3.1	5.5	7.7	9.9	11.9	13.5	15.1	16.8	18.5	19.5	20.5
92.5°	18.4	18.2	18.0	17.8	18.1	19.0	19.8	20.6	21.4	21.9	22.4
95°	53.2	46.5	39.7	32.9	30.2	31.7	33.1	34.5	36.0	37.0	38.0
97.5°	99.9	80.9	61.8	42.7	34.8	38.2	41.5	44.8	48.2	49.0	49.8
100°	135.1	107.0	79.0	50.9	38.7	42.1	45.6	49.1	52.6	54.2	55.8
102.5°	206.0	200.1	194.1	188.1	170.7	141.5	112.3	83.2	54.0	56.1	58.3
105°	286.5	292.7	298.8	305.0	280.0	224.1	168.1	112.2	56.2	58.5	60.8
107.5°	363.3	368.3	373.2	378.3	347.2	280.0	213.0	145.8	78.8	76.4	74.1
110°	412.9	417.2	421.5	425.8	398.3	339.1	279.8	220.7	161.4	140.9	120.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	459.6	463.4	467.3	471.0	465.6	451.0	436.4	421.7	407.1	332.3	257.6
115°	533.8	537.2	540.8	544.2	548.6	553.7	558.9	563.9	569.1	474.1	379.3
117.5°	600.8	604.7	608.6	612.5	616.2	619.8	623.3	626.8	630.3	607.3	584.4
120°	648.6	651.8	654.8	657.9	661.3	665.0	668.6	672.4	676.0	678.5	681.0
122.5°	690.1	693.4	696.6	699.8	703.5	707.5	711.6	715.6	719.6	721.0	722.6
125°	752.5	755.2	757.8	760.5	763.8	767.7	771.5	775.5	779.3	780.8	782.2
127.5°	809.8	812.7	815.7	818.6	821.5	824.5	827.4	830.3	833.2	835.3	837.4
130°	846.3	849.5	852.8	856.1	858.9	861.1	863.3	865.7	867.9	870.1	872.4
132.5°	882.6	885.4	888.3	891.0	893.5	895.9	898.1	900.3	902.5	904.5	906.5
135°	931.1	934.4	937.7	941.0	943.5	945.3	947.3	949.1	950.9	952.9	955.0
137.5°	978.7	981.0	983.2	985.5	987.7	989.8	991.9	994.0	996.1	998.0	1000.1
140°	1009.8	1011.4	1013.0	1014.6	1016.6	1018.9	1021.1	1023.4	1025.6	1027.4	1029.3
142.5°	1036.1	1037.6	1039.1	1040.6	1042.6	1045.1	1047.7	1050.4	1052.9	1054.6	1056.2
145°	1076.1	1075.9	1075.7	1075.5	1077.1	1080.7	1084.1	1087.6	1091.1	1092.5	1094.0
147.5°	1111.9	1111.2	1110.3	1109.5	1110.9	1114.3	1117.8	1121.3	1124.7	1125.7	1126.8
150°	1134.9	1133.4	1132.0	1130.5	1131.5	1134.8	1138.0	1141.3	1144.6	1145.8	1147.0
152.5°	1154.6	1153.0	1151.4	1149.8	1150.5	1153.7	1156.8	1159.9	1163.1	1164.3	1165.5
155°	1183.4	1181.4	1179.6	1177.8	1178.1	1180.5	1183.1	1185.5	1187.9	1189.1	1190.4
157.5°	1206.3	1204.8	1203.2	1201.6	1201.7	1203.5	1205.2	1206.9	1208.6	1210.0	1211.3
160°	1219.9	1218.7	1217.4	1216.2	1216.2	1217.4	1218.7	1219.9	1221.1	1222.3	1223.6
162.5°	1231.7	1230.5	1229.2	1228.0	1227.9	1229.0	1230.0	1231.1	1232.2	1233.6	1235.0
165°	1247.6	1246.4	1245.1	1243.9	1243.5	1244.2	1244.8	1245.5	1246.1	1247.5	1248.9
167.5°	1259.4	1258.2	1256.9	1255.7	1255.4	1256.0	1256.5	1257.1	1257.7	1259.1	1260.5
170°	1266.0	1264.8	1263.5	1262.3	1261.9	1262.3	1262.7	1263.1	1263.5	1265.0	1266.5
172.5°	1270.4	1269.2	1268.0	1266.8	1266.4	1266.8	1267.2	1267.6	1268.0	1269.4	1270.8
175°	1276.0	1274.6	1273.0	1271.6	1271.1	1271.5	1271.9	1272.3	1272.7	1274.2	1275.7
177.5°	1277.2	1276.1	1274.9	1273.7	1273.2	1273.4	1273.5	1273.7	1273.8	1275.1	1276.2
180°	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4
2.5°	1391.3	1397.0	1397.0	1397.9	1404.5	1403.6	1403.2
5°	1480.6	1489.3	1490.4	1499.6	1505.8	1503.8	1498.1
7.5°	1564.8	1581.1	1593.5	1600.3	1608.5	1613.6	1611.3
10°	1631.6	1655.4	1669.8	1679.6	1691.4	1700.2	1697.1
12.5°	1692.2	1720.5	1740.3	1757.1	1758.7	1769.9	1762.2
15°	1786.8	1816.6	1819.8	1832.2	1842.0	1840.9	1841.4
17.5°	1818.1	1827.7	1829.6	1829.9	1830.0	1826.3	1818.6
20°	1806.9	1803.3	1794.5	1787.9	1775.9	1774.4	1764.1
22.5°	1754.1	1742.6	1720.7	1706.2	1687.7	1682.8	1680.0
25°	1650.2	1624.9	1589.8	1556.3	1547.1	1529.0	1534.2
27.5°	1507.6	1468.2	1430.3	1403.0	1378.4	1351.4	1359.1
30°	1407.3	1363.0	1309.4	1268.2	1241.9	1216.1	1211.4
32.5°	1287.8	1222.8	1163.0	1126.7	1086.4	1070.2	1052.3
35°	1081.6	1018.1	958.9	907.9	878.5	855.8	835.2
37.5°	896.1	823.0	775.3	733.9	712.7	699.6	703.0
40°	781.0	717.1	682.1	650.6	631.0	621.7	623.8
42.5°	687.8	640.0	611.1	589.6	575.7	570.6	569.4
45°	582.0	555.2	531.5	519.2	512.4	506.8	503.1
47.5°	509.9	488.0	474.6	467.3	461.4	455.7	455.6
50°	466.6	452.1	442.8	435.0	430.5	426.4	429.9
52.5°	433.5	420.3	411.1	404.1	402.4	398.7	398.6
55°	384.6	374.3	367.6	361.3	358.3	356.2	353.7
57.5°	340.0	330.2	324.1	320.1	314.3	312.1	311.3
60°	308.3	300.5	294.4	289.2	286.6	282.5	282.5
62.5°	279.0	271.2	265.5	261.6	257.3	255.7	256.1
65°	236.6	230.5	224.8	220.7	219.6	216.5	217.5
67.5°	197.6	193.5	187.5	185.3	183.3	181.7	180.5
70°	171.7	167.5	164.4	161.4	159.8	159.8	159.8
72.5°	149.8	144.8	143.0	139.1	140.0	138.4	136.7
75°	116.0	112.9	111.4	109.8	107.2	107.2	107.2
77.5°	85.3	84.4	82.6	80.9	80.3	79.8	80.0
80°	65.9	65.4	64.4	64.4	63.4	62.9	61.9
82.5°	50.7	49.4	48.8	48.4	48.2	48.1	47.9
85°	28.9	27.9	27.9	28.4	27.4	27.4	27.9
87.5°	15.5	15.7	15.3	15.5	16.0	15.7	15.7
90°	21.5	22.5	23.2	23.6	24.0	24.5	24.9
92.5°	23.0	23.5	23.9	24.1	24.4	24.6	24.9
95°	39.1	40.1	40.5	40.3	40.1	39.9	39.7
97.5°	50.6	51.4	51.9	52.2	52.4	52.7	52.9
100°	57.5	59.2	60.2	60.6	61.0	61.4	61.8
102.5°	60.5	62.6	63.9	64.5	65.0	65.6	66.2
105°	63.0	65.2	66.9	67.7	68.5	69.3	70.1
107.5°	71.9	69.6	68.9	69.7	70.5	71.3	72.1
110°	99.9	79.4	69.6	70.4	71.2	72.0	72.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	182.8	108.1	71.0	71.6	72.3	72.9	73.6
115°	284.4	189.5	134.6	119.9	105.1	90.4	75.6
117.5°	561.5	538.5	502.7	454.2	405.8	357.3	308.8
120°	683.5	685.9	673.3	645.6	617.9	590.3	562.6
122.5°	724.0	725.5	723.6	718.2	712.8	707.4	702.1
125°	783.7	785.1	786.1	786.7	787.3	788.0	788.6
127.5°	839.5	841.6	842.6	842.8	842.9	843.0	843.1
130°	874.6	876.9	878.0	877.8	877.5	877.3	877.1
132.5°	908.4	910.3	911.1	910.9	910.7	910.5	910.3
135°	957.0	959.1	959.9	959.5	959.1	958.7	958.3
137.5°	1002.1	1004.1	1004.8	1004.1	1003.4	1002.7	1002.0
140°	1031.2	1033.0	1033.4	1032.4	1031.4	1030.4	1029.3
142.5°	1057.9	1059.7	1060.0	1058.9	1057.9	1056.9	1055.8
145°	1095.4	1096.8	1097.0	1096.0	1095.0	1094.0	1093.0
147.5°	1127.8	1128.9	1129.0	1128.1	1127.3	1126.4	1125.6
150°	1148.3	1149.5	1149.6	1148.6	1147.5	1146.5	1145.5
152.5°	1166.7	1167.9	1167.9	1166.5	1165.2	1163.9	1162.5
155°	1191.6	1192.9	1192.7	1191.0	1189.3	1187.7	1186.1
157.5°	1212.7	1214.2	1214.1	1212.4	1210.8	1209.2	1207.7
160°	1224.9	1226.1	1226.0	1224.5	1223.0	1221.6	1220.2
162.5°	1236.4	1237.8	1237.6	1235.9	1234.1	1232.3	1230.5
165°	1250.3	1251.7	1251.7	1250.3	1248.9	1247.5	1246.1
167.5°	1261.9	1263.4	1263.1	1261.3	1259.5	1257.7	1255.8
170°	1267.9	1269.3	1269.1	1267.3	1265.4	1263.5	1261.7
172.5°	1272.3	1273.7	1273.5	1271.6	1269.8	1268.0	1266.2
175°	1277.1	1278.5	1278.2	1276.2	1274.1	1272.0	1270.0
177.5°	1277.4	1278.5	1278.3	1276.9	1275.4	1273.8	1272.4
180°	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7

(END OF REPORT)