

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: P332824-927

Luminaire Tested: **S124DIW-S1020D1340U927-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332824-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DIW-S1020D1340U927-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1340 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7336.9 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

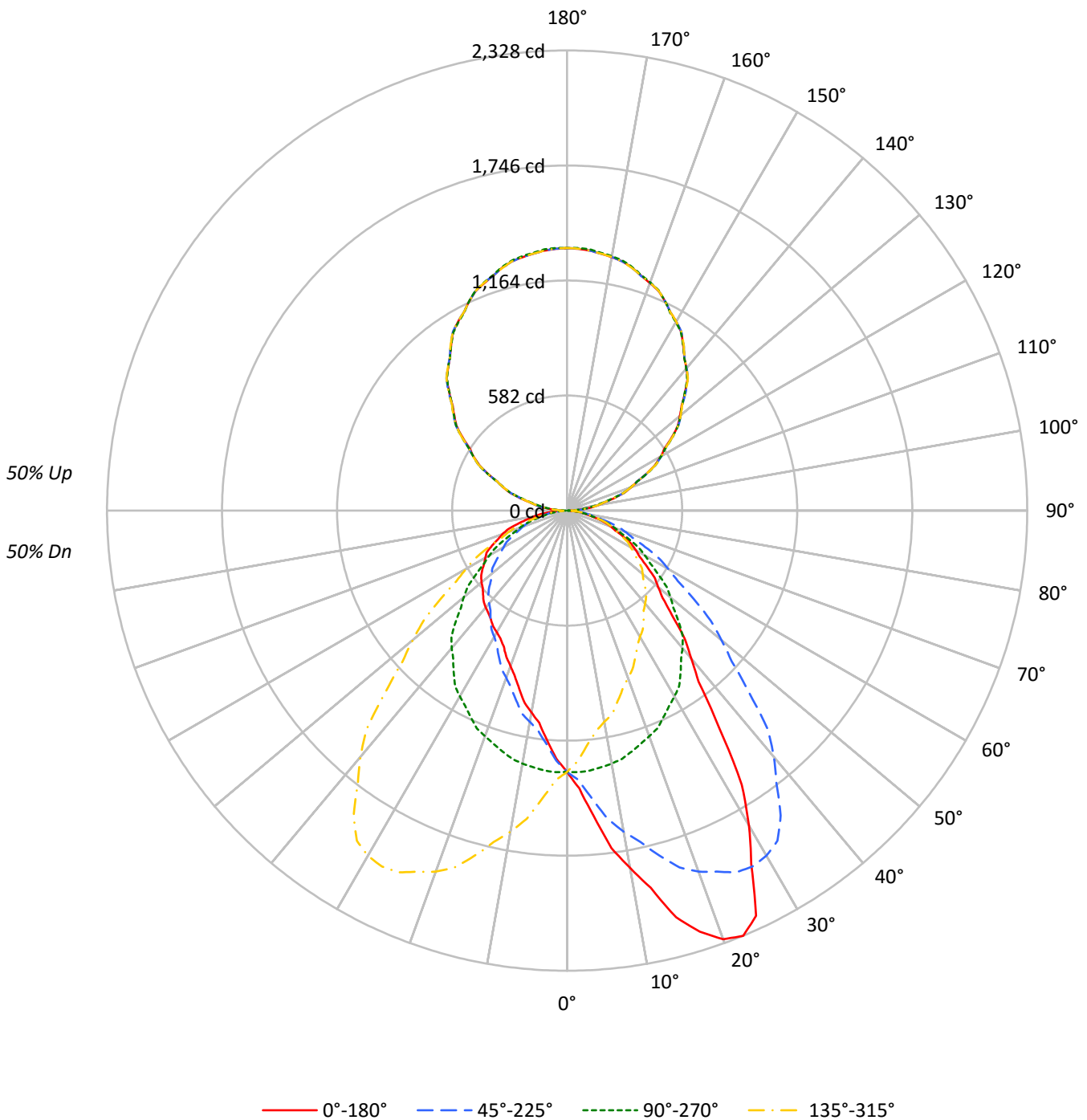
Input Watts (W): 69.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0	
RCR																						
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50				
1	98	94	90	86	90	87	83	80	73	71	69	61	59	58	50	49	48	42				
2	89	82	76	71	82	76	71	66	64	61	57	54	51	49	44	42	40	36				
3	82	72	65	59	75	67	61	56	57	52	48	48	44	41	39	37	35	31				
4	75	64	56	50	69	60	53	47	51	46	41	43	39	36	35	32	30	26				
5	69	57	49	43	63	53	46	41	46	40	36	38	34	31	32	29	26	23				
6	63	51	43	38	58	48	41	36	41	36	31	35	31	27	29	26	23	20				
7	59	46	39	33	54	43	36	31	37	32	28	32	27	24	26	23	21	18				
8	54	42	35	29	50	39	33	28	34	29	25	29	25	22	24	21	19	16				
9	51	39	31	26	47	36	29	25	31	26	22	27	22	19	22	19	17	15				
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	21	18	15	13				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10672	10672	10672	10672
5°	12568	10699	9444	10699
10°	15048	10653	8502	10653
15°	17804	10546	7809	10546
20°	19826	10436	7189	10436
25°	20147	10273	6762	10273
30°	17143	10118	6626	10118
35°	13180	9866	6628	9866
40°	10273	9569	6752	9569
45°	8566	9122	6865	9122
50°	7538	8577	7097	8577
55°	6906	7924	7385	7924
60°	6471	7340	7727	7340
65°	6025	6684	8013	6684
70°	5507	6035	8195	6035
75°	4919	5312	8097	5312
80°	4124	4351	7843	4351
85°	3047	3149	7503	3149



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.8	1.8
10°-20°	397.0	5.4
20°-30°	629.5	8.6
30°-40°	700.6	9.5
40°-50°	637.7	8.7
50°-60°	521.1	7.1
60°-70°	372.0	5.1
70°-80°	204.9	2.8
80°-90°	59.9	0.8
90°-100°	87.6	1.2
100°-110°	259.5	3.5
110°-120°	440.5	6.0
120°-130°	580.9	7.9
130°-140°	652.4	8.9
140°-150°	641.1	8.7
150°-160°	539.2	7.3
160°-170°	358.7	4.9
170°-180°	125.6	1.7
0°-30°	1155.3	15.7
0°-40°	1855.8	25.3
0°-60°	3014.6	41.1
0°-90°	3651.4	49.8
90°-120°	787.7	10.7
90°-150°	2662.0	36.3
90°-180°	3686.0	50.2
0°-180°	7336.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1322	1322	1322	1322	1322	
5°	1551	1320	1165	1320	1551	158
15°	2130	1262	934	1262	2130	602
25°	2262	1153	759	1153	2262	997
35°	1337	1001	672	1001	1337	849
45°	750	799	601	799	750	591
55°	491	563	525	563	491	443
65°	315	350	420	350	315	312
75°	158	170	260	170	158	168
85°	33	34	81	34	33	41
90°	31	3	31	3	31	17
95°	81	62	81	62	81	85
105°	251	239	251	239	251	264
115°	444	448	444	448	444	439
125°	647	652	647	652	647	577
135°	842	841	842	841	842	651
145°	1023	1022	1023	1022	1023	640
155°	1170	1171	1170	1171	1170	539
165°	1272	1275	1272	1275	1272	358
175°	1320	1326	1320	1326	1320	125
180°	1328	1328	1328	1328	1328	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0
2.5°	1407.0	1406.6	1402.2	1401.3	1398.2	1394.3	1393.4	1386.4	1372.4	1365.8	1364.1
5°	1550.9	1561.9	1547.6	1544.9	1543.3	1525.2	1515.8	1504.9	1479.7	1464.9	1453.4
7.5°	1722.7	1723.9	1717.8	1712.7	1698.8	1683.0	1659.4	1634.2	1604.2	1573.0	1549.4
10°	1835.7	1840.1	1833.0	1831.8	1804.0	1786.4	1751.4	1721.8	1687.8	1650.0	1615.6
12.5°	1954.9	1948.7	1945.1	1921.7	1916.5	1884.5	1843.8	1813.4	1761.0	1717.5	1671.6
15°	2130.3	2118.3	2110.6	2078.3	2062.4	2018.1	1974.8	1941.4	1873.0	1807.8	1758.5
17.5°	2233.2	2245.4	2227.6	2214.3	2173.3	2142.1	2097.9	2027.8	1974.3	1893.3	1831.1
20°	2307.8	2308.8	2299.0	2285.3	2253.0	2213.6	2165.4	2088.7	2024.7	1944.1	1858.7
22.5°	2327.9	2328.1	2323.9	2311.1	2286.7	2254.7	2206.1	2142.1	2064.5	1977.0	1891.6
25°	2261.8	2259.5	2264.5	2278.7	2269.4	2259.5	2231.7	2184.0	2111.7	2019.1	1927.1
27.5°	2015.9	2031.1	2058.9	2094.0	2127.7	2153.5	2160.7	2150.9	2106.1	2030.0	1933.6
30°	1839.0	1857.6	1878.4	1913.4	1981.3	2020.2	2063.0	2095.2	2077.2	2016.4	1926.6
32.5°	1644.5	1649.1	1680.0	1719.8	1782.0	1856.8	1924.5	1990.1	2011.9	1980.1	1905.1
35°	1337.4	1345.0	1378.4	1417.8	1494.0	1585.4	1687.3	1778.2	1853.2	1883.3	1845.0
37.5°	1091.3	1113.3	1136.9	1179.3	1246.3	1328.6	1434.5	1552.1	1664.0	1738.8	1751.6
40°	974.8	988.5	1005.4	1037.8	1094.7	1175.8	1266.7	1401.4	1520.3	1627.6	1662.6
42.5°	882.8	890.8	901.2	930.4	973.8	1054.4	1137.4	1255.9	1375.2	1503.6	1562.3
45°	750.3	758.5	776.0	793.0	825.9	881.7	958.9	1056.4	1176.3	1300.1	1408.5
47.5°	654.5	659.8	670.2	688.4	716.3	753.1	815.9	897.4	1008.5	1128.7	1244.2
50°	600.2	604.6	612.8	629.2	650.6	683.4	734.9	811.0	898.1	1019.1	1132.5
52.5°	557.3	559.0	565.1	576.2	593.2	620.8	663.1	726.0	807.0	914.9	1027.8
55°	490.7	492.9	498.4	506.6	521.3	538.8	571.2	618.3	689.0	782.6	880.6
57.5°	435.9	437.4	442.0	445.2	457.4	471.7	496.5	530.1	583.7	663.1	750.6
60°	400.8	399.8	405.3	408.0	416.2	428.3	447.4	479.7	526.2	590.3	670.8
62.5°	366.7	365.2	369.8	373.4	378.1	388.4	404.0	429.4	467.1	525.1	594.6
65°	315.4	313.2	316.0	320.4	324.7	330.3	341.7	364.2	394.3	435.9	489.0
67.5°	264.0	266.3	266.7	268.9	271.4	278.8	286.8	302.6	323.8	357.2	402.2
70°	233.3	233.9	236.1	236.1	237.7	244.2	250.8	260.2	280.9	311.6	348.3
72.5°	202.6	204.9	204.1	205.8	207.0	211.4	216.2	225.1	242.8	265.6	296.6
75°	157.7	159.4	159.4	159.9	161.5	163.2	167.0	173.6	186.2	203.2	224.5
77.5°	115.0	115.3	116.0	118.0	118.0	120.6	123.4	128.7	134.9	146.6	159.5
80°	88.7	89.8	89.3	90.4	90.4	92.5	93.6	100.2	103.0	110.6	121.0
82.5°	65.0	66.1	66.1	67.6	68.4	68.9	70.4	73.0	75.8	82.5	86.8
85°	32.9	34.0	32.9	34.0	35.6	36.1	37.8	38.3	40.6	42.1	46.0
87.5°	15.8	17.0	17.0	17.3	18.1	18.3	18.5	17.7	19.3	19.4	20.8
90°	30.8	30.3	29.9	29.5	29.0	28.0	26.7	25.3	24.0	22.6	20.8
92.5°	45.6	45.3	45.1	44.8	44.5	44.0	43.2	42.3	41.5	40.7	39.4
95°	81.2	81.2	81.2	81.2	81.2	80.8	80.2	79.5	78.7	78.1	76.4
97.5°	127.2	127.2	127.2	127.2	127.2	126.7	126.0	125.2	124.3	123.5	121.6
100°	159.2	159.2	159.2	159.2	159.2	159.0	158.6	158.1	157.6	157.2	155.1
102.5°	195.4	195.2	195.0	194.9	194.6	194.2	193.6	193.0	192.3	191.7	189.8
105°	250.6	250.0	249.3	248.6	248.0	247.2	246.6	245.9	245.2	244.5	243.6
107.5°	304.5	304.6	304.6	304.7	304.7	304.4	303.7	303.1	302.5	301.8	301.7
110°	343.2	342.5	341.7	341.1	340.4	340.3	340.7	341.2	341.7	342.1	342.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	382.6	382.5	382.3	382.1	382.1	382.0	382.1	382.2	382.3	382.4	382.8
115°	443.9	444.0	444.3	444.5	444.7	445.0	445.2	445.4	445.7	445.8	446.3
117.5°	502.2	502.6	503.1	503.5	504.0	504.6	505.4	506.2	506.9	507.7	508.0
120°	546.5	546.1	545.7	545.2	544.7	545.1	546.2	547.4	548.5	549.6	550.3
122.5°	583.5	584.4	585.2	586.0	586.8	587.6	588.4	589.1	589.9	590.7	591.0
125°	647.2	647.7	648.2	648.6	649.0	649.5	650.0	650.5	650.9	651.3	651.6
127.5°	706.2	706.5	706.9	707.3	707.7	708.1	708.5	709.0	709.5	709.9	710.3
130°	744.8	745.8	746.6	747.6	748.5	749.2	749.6	750.1	750.5	751.0	751.0
132.5°	785.9	786.3	786.6	787.0	787.4	787.8	788.3	788.7	789.2	789.6	789.8
135°	842.4	843.1	843.8	844.5	845.2	845.7	846.2	846.7	847.2	847.6	847.6
137.5°	901.8	901.7	901.6	901.4	901.3	901.5	902.1	902.7	903.2	903.9	903.5
140°	938.0	938.2	938.4	938.7	938.9	939.1	939.4	939.6	939.8	940.0	940.0
142.5°	974.1	974.2	974.2	974.3	974.3	974.4	974.5	974.5	974.5	974.5	974.8
145°	1023.3	1024.0	1024.6	1025.3	1026.0	1026.4	1026.7	1026.9	1027.1	1027.4	1027.1
147.5°	1073.0	1073.2	1073.4	1073.6	1073.9	1074.1	1074.3	1074.4	1074.7	1074.8	1075.0
150°	1103.4	1103.6	1103.8	1104.1	1104.3	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4
152.5°	1131.3	1131.9	1132.5	1133.1	1133.7	1133.8	1133.2	1132.7	1132.1	1131.6	1131.4
155°	1170.2	1171.1	1172.0	1172.9	1173.9	1173.9	1172.9	1172.0	1171.1	1170.2	1170.4
157.5°	1204.9	1205.7	1206.4	1207.2	1208.0	1208.1	1207.4	1206.7	1206.0	1205.3	1205.4
160°	1224.6	1225.7	1226.9	1228.0	1229.2	1229.4	1228.8	1228.0	1227.3	1226.7	1226.9
162.5°	1245.2	1246.3	1247.4	1248.6	1249.7	1249.7	1248.5	1247.2	1246.0	1244.8	1245.0
165°	1271.8	1272.8	1273.7	1274.6	1275.6	1275.3	1273.9	1272.6	1271.2	1269.8	1270.3
167.5°	1291.0	1292.4	1293.8	1295.2	1296.6	1296.6	1295.3	1294.0	1292.6	1291.2	1291.2
170°	1301.7	1303.3	1304.9	1306.5	1308.1	1308.2	1306.8	1305.4	1304.1	1302.7	1302.5
172.5°	1310.7	1312.3	1313.9	1315.5	1317.1	1317.2	1315.6	1314.0	1312.5	1310.9	1310.9
175°	1320.2	1321.8	1323.3	1324.9	1326.6	1326.6	1324.9	1323.3	1321.8	1320.2	1320.4
177.5°	1325.1	1326.6	1328.0	1329.5	1330.9	1331.0	1329.8	1328.5	1327.2	1326.0	1326.0
180°	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0
2.5°	1364.5	1358.4	1354.0	1350.5	1340.8	1335.1	1330.8	1324.6	1317.6	1310.2	1301.0
5°	1441.9	1423.3	1409.6	1388.9	1369.1	1352.7	1335.7	1320.3	1301.7	1281.5	1266.7
7.5°	1523.3	1495.6	1460.2	1429.3	1394.7	1364.6	1337.7	1310.0	1281.4	1253.5	1228.0
10°	1575.0	1539.4	1500.0	1453.4	1409.6	1370.7	1334.6	1299.6	1265.6	1231.6	1202.6
12.5°	1630.6	1586.3	1528.0	1473.6	1424.5	1372.5	1328.9	1285.9	1245.0	1209.3	1175.4
15°	1705.3	1641.2	1573.9	1501.1	1436.5	1375.7	1316.0	1261.8	1215.8	1168.6	1135.8
17.5°	1751.3	1672.0	1595.0	1518.9	1440.6	1364.0	1299.6	1237.0	1179.4	1132.7	1091.2
20°	1781.5	1702.6	1606.8	1530.7	1437.6	1358.7	1284.2	1214.7	1154.4	1104.6	1061.8
22.5°	1807.8	1716.7	1620.8	1520.6	1427.9	1344.3	1262.7	1192.8	1131.2	1078.7	1037.8
25°	1822.0	1717.4	1613.4	1513.7	1408.5	1309.4	1235.5	1153.3	1087.6	1032.3	988.5
27.5°	1823.5	1711.7	1593.9	1483.2	1374.7	1282.4	1189.1	1115.6	1047.4	989.0	946.9
30°	1818.7	1702.1	1575.6	1455.6	1346.6	1246.4	1165.4	1085.4	1015.9	957.8	914.0
32.5°	1803.4	1681.9	1551.9	1425.0	1312.0	1214.0	1130.4	1054.3	986.5	929.3	883.4
35°	1759.0	1639.1	1500.6	1368.6	1253.0	1153.9	1078.3	1001.1	933.2	878.9	834.6
37.5°	1689.7	1581.3	1440.4	1303.9	1190.3	1090.8	1015.9	946.1	884.9	829.8	784.3
40°	1629.2	1533.9	1392.7	1259.6	1136.9	1042.2	972.1	908.0	847.2	795.2	751.9
42.5°	1559.6	1476.5	1346.2	1205.2	1087.0	991.8	923.4	865.9	808.7	760.6	717.3
45°	1435.4	1380.6	1257.9	1127.6	1004.4	914.6	849.4	799.0	750.8	703.7	667.6
47.5°	1292.5	1265.4	1162.1	1038.3	921.4	832.8	776.3	729.8	687.5	647.6	615.8
50°	1196.6	1183.4	1094.2	974.8	863.1	779.8	722.9	682.9	646.7	611.7	581.6
52.5°	1101.9	1101.5	1021.0	911.7	808.3	728.2	671.6	634.3	602.9	574.5	547.4
55°	957.3	972.6	909.7	812.1	719.6	647.3	596.4	563.0	541.1	517.5	497.3
57.5°	824.4	849.9	797.9	712.0	634.9	568.2	523.9	498.8	475.5	461.2	446.5
60°	737.7	761.8	721.3	649.0	576.2	519.2	477.0	454.6	434.3	424.5	414.0
62.5°	660.6	682.1	652.0	585.0	521.8	467.0	431.4	409.9	396.2	385.4	378.5
65°	550.4	568.5	542.7	494.0	439.7	395.9	366.9	349.9	336.8	332.4	324.7
67.5°	444.9	461.4	447.4	406.0	362.5	329.4	306.7	290.3	282.6	278.8	273.3
70°	382.2	398.7	383.9	347.8	314.3	286.5	265.1	255.7	247.6	245.9	238.2
72.5°	329.2	340.4	325.7	297.4	268.8	245.3	228.7	219.0	214.7	211.8	207.6
75°	247.0	256.8	247.0	225.1	204.8	188.4	174.1	170.3	165.4	163.7	161.0
77.5°	174.8	183.3	175.8	162.1	146.9	134.3	126.6	121.7	120.6	117.7	119.1
80°	133.6	139.1	132.0	122.7	110.6	101.9	96.4	93.6	90.4	89.3	91.4
82.5°	95.9	98.4	94.7	88.5	79.5	73.8	70.1	66.9	66.2	66.5	66.5
85°	49.8	49.3	48.7	43.3	40.6	36.7	34.5	34.0	33.4	34.5	35.6
87.5°	20.4	20.5	19.7	17.5	15.7	13.9	12.9	12.0	12.9	13.9	14.8
90°	18.9	17.1	15.3	13.2	10.6	8.1	5.6	3.1	5.6	8.1	10.6
92.5°	38.1	36.8	35.6	33.5	30.6	27.7	24.9	22.0	24.9	27.7	30.6
95°	74.9	73.3	71.7	69.9	67.8	65.8	63.7	61.6	63.7	65.8	67.8
97.5°	119.8	117.9	116.0	114.2	112.6	111.0	109.3	107.7	109.3	111.0	112.6
100°	153.0	151.0	148.9	147.5	146.6	145.7	144.7	143.9	144.7	145.7	146.6
102.5°	188.0	186.1	184.2	183.1	182.8	182.4	182.0	181.6	182.0	182.4	182.8
105°	242.7	241.8	240.8	240.3	240.0	239.9	239.6	239.4	239.6	239.9	240.0
107.5°	301.6	301.4	301.3	301.1	300.8	300.6	300.2	300.0	300.2	300.6	300.8
110°	342.5	342.8	343.0	342.9	342.5	342.0	341.5	341.1	341.5	342.0	342.5



TEST NUMBER: P332824-927

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	383.2	383.7	384.0	384.2	384.1	384.0	383.9	383.8	383.9	384.0	384.1
115°	446.8	447.3	447.7	447.9	447.9	447.9	447.9	447.9	447.9	447.9	447.9
117.5°	508.3	508.7	509.0	509.1	508.9	508.7	508.5	508.3	508.5	508.7	508.9
120°	551.0	551.7	552.4	552.2	551.4	550.4	549.5	548.6	549.5	550.4	551.4
122.5°	591.4	591.7	592.0	592.0	591.6	591.3	590.9	590.5	590.9	591.3	591.6
125°	651.8	652.0	652.3	652.4	652.4	652.4	652.4	652.4	652.4	652.4	652.4
127.5°	710.7	711.0	711.4	711.2	710.5	709.9	709.2	708.4	709.2	709.9	710.5
130°	751.0	751.0	751.0	750.7	750.0	749.3	748.6	747.9	748.6	749.3	750.0
132.5°	790.0	790.2	790.4	790.2	789.7	789.2	788.7	788.2	788.7	789.2	789.7
135°	847.6	847.6	847.6	846.9	845.5	844.1	842.8	841.4	842.8	844.1	845.5
137.5°	903.2	902.8	902.5	901.9	901.3	900.6	900.0	899.4	900.0	900.6	901.3
140°	940.0	940.0	940.0	939.8	939.4	938.9	938.4	938.0	938.4	938.9	939.4
142.5°	974.9	975.1	975.3	975.2	974.7	974.2	973.8	973.4	973.8	974.2	974.7
145°	1026.9	1026.7	1026.4	1025.9	1025.0	1024.1	1023.2	1022.2	1023.2	1024.1	1025.0
147.5°	1075.2	1075.4	1075.5	1075.1	1074.0	1072.9	1071.8	1070.7	1071.8	1072.9	1074.0
150°	1104.4	1104.4	1104.4	1104.0	1103.0	1102.2	1101.2	1100.3	1101.2	1102.2	1103.0
152.5°	1131.2	1131.0	1130.8	1130.4	1129.9	1129.3	1128.8	1128.2	1128.8	1129.3	1129.9
155°	1170.6	1170.8	1171.1	1171.2	1171.2	1171.2	1171.2	1171.2	1171.2	1171.2	1171.2
157.5°	1205.4	1205.5	1205.5	1205.7	1206.1	1206.6	1207.0	1207.4	1207.0	1206.6	1206.1
160°	1227.2	1227.3	1227.6	1227.8	1228.0	1228.3	1228.5	1228.8	1228.5	1228.3	1228.0
162.5°	1245.2	1245.5	1245.7	1246.1	1246.7	1247.3	1247.8	1248.5	1247.8	1247.3	1246.7
165°	1270.7	1271.2	1271.7	1272.2	1272.9	1273.6	1274.3	1274.9	1274.3	1273.6	1272.9
167.5°	1291.1	1291.1	1291.0	1291.5	1292.4	1293.4	1294.3	1295.3	1294.3	1293.4	1292.4
170°	1302.3	1302.0	1301.8	1302.3	1303.4	1304.6	1305.7	1306.8	1305.7	1304.6	1303.4
172.5°	1310.8	1310.8	1310.7	1311.2	1312.2	1313.1	1314.1	1315.0	1314.1	1313.1	1312.2
175°	1320.6	1320.9	1321.0	1321.8	1322.9	1324.1	1325.2	1326.4	1325.2	1324.1	1322.9
177.5°	1326.0	1326.0	1326.0	1326.4	1327.3	1328.2	1329.1	1330.0	1329.1	1328.2	1327.3
180°	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4



TEST NUMBER: P332824-927

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0
2.5°	1296.6	1292.7	1287.0	1279.1	1272.5	1265.5	1263.8	1261.1	1266.4	1261.9	1260.7
5°	1254.1	1242.6	1227.8	1210.9	1200.9	1186.8	1184.0	1178.5	1173.1	1172.5	1167.0
7.5°	1209.1	1192.2	1172.8	1155.6	1139.6	1123.9	1113.8	1111.6	1103.5	1098.8	1093.3
10°	1180.2	1159.4	1136.9	1120.5	1101.8	1085.4	1074.0	1067.4	1061.8	1055.8	1050.4
12.5°	1146.0	1123.9	1105.3	1087.6	1065.5	1053.0	1034.0	1022.6	1021.6	1021.7	1007.4
15°	1106.2	1084.3	1055.8	1030.6	1018.6	994.5	984.1	971.0	962.7	954.5	948.0
17.5°	1060.8	1033.5	1011.3	982.4	959.3	940.2	926.5	918.6	906.3	894.6	886.2
20°	1032.3	1003.3	979.7	949.0	923.8	900.3	888.8	877.9	868.5	858.7	849.4
22.5°	1003.4	973.0	944.2	914.4	891.0	866.2	855.1	840.2	831.3	825.9	816.5
25°	957.8	925.0	892.1	863.6	839.6	817.6	802.9	791.3	781.5	777.1	771.1
27.5°	908.3	875.7	843.9	811.6	784.3	768.3	756.5	747.8	742.2	736.3	733.6
30°	876.8	842.8	808.9	778.7	753.5	737.7	726.7	720.7	716.3	713.6	710.8
32.5°	844.8	811.3	775.5	748.1	725.5	711.4	703.1	697.0	694.8	693.9	692.8
35°	793.5	759.5	726.7	702.1	680.7	675.3	668.1	664.8	663.8	667.6	669.2
37.5°	743.9	712.4	682.1	658.2	644.3	636.3	633.8	634.0	637.9	641.3	645.2
40°	711.9	681.3	652.8	632.0	618.9	613.9	612.8	615.5	620.0	623.8	628.1
42.5°	680.8	650.6	624.7	605.2	596.0	591.5	592.2	594.9	601.1	605.8	612.4
45°	632.6	607.4	582.2	566.3	558.6	559.7	559.7	564.6	570.6	577.7	584.9
47.5°	587.1	561.7	541.0	527.6	523.6	522.7	525.8	532.2	540.8	549.6	559.6
50°	556.4	532.3	514.2	502.2	497.8	499.5	503.8	509.8	520.2	531.2	541.6
52.5°	525.3	503.4	486.6	475.5	472.4	475.4	479.7	489.3	498.4	510.2	522.8
55°	477.0	458.4	445.2	437.0	435.9	437.6	442.5	452.9	466.0	480.9	492.9
57.5°	428.9	413.4	401.3	395.6	396.2	397.7	405.8	418.2	432.2	448.0	463.5
60°	396.5	382.2	372.4	368.0	368.5	371.9	381.7	393.2	410.7	426.0	442.5
62.5°	365.8	353.3	343.9	340.0	339.2	346.4	355.8	367.8	385.3	402.4	420.2
65°	316.6	306.7	299.0	296.8	298.5	304.0	316.0	331.8	346.7	364.7	383.3
67.5°	268.3	260.2	255.0	256.0	257.9	266.0	276.2	289.8	306.6	325.3	343.7
70°	237.7	230.0	225.6	226.2	229.5	239.3	248.1	261.7	279.9	299.0	314.3
72.5°	206.1	201.1	197.2	199.5	202.7	209.5	220.5	234.2	250.1	267.9	284.1
75°	158.3	158.3	156.1	157.7	162.6	169.2	177.4	191.7	207.6	221.8	235.0
77.5°	117.4	116.2	117.6	119.6	122.5	130.2	139.7	149.8	161.8	176.0	186.9
80°	89.8	90.4	93.1	96.4	97.5	103.5	113.4	122.7	132.0	144.0	154.4
82.5°	67.5	68.0	69.5	73.6	74.7	81.2	87.5	96.8	105.3	113.4	122.0
85°	36.7	36.7	39.5	41.0	43.8	48.2	52.0	57.5	65.2	70.7	78.8
87.5°	16.6	17.1	19.2	20.4	22.1	24.6	25.8	30.9	33.0	35.4	39.5
90°	13.2	15.3	17.1	18.9	20.8	22.6	24.0	25.3	26.7	28.0	29.0
92.5°	33.5	35.6	36.8	38.1	39.4	40.7	41.5	42.3	43.2	44.0	44.5
95°	69.9	71.7	73.3	74.9	76.4	78.1	78.7	79.5	80.2	80.8	81.2
97.5°	114.2	116.0	117.9	119.8	121.6	123.5	124.3	125.2	126.0	126.7	127.2
100°	147.5	148.9	151.0	153.0	155.1	157.2	157.6	158.1	158.6	159.0	159.2
102.5°	183.1	184.2	186.1	188.0	189.8	191.7	192.3	193.0	193.6	194.2	194.6
105°	240.3	240.8	241.8	242.7	243.6	244.5	245.2	245.9	246.6	247.2	248.0
107.5°	301.1	301.3	301.4	301.6	301.7	301.8	302.5	303.1	303.7	304.4	304.7
110°	342.9	343.0	342.8	342.5	342.4	342.1	341.7	341.2	340.7	340.3	340.4



TEST NUMBER: P332824-927

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	384.2	384.0	383.7	383.2	382.8	382.4	382.3	382.2	382.1	382.0	382.1
115°	447.9	447.7	447.3	446.8	446.3	445.8	445.7	445.4	445.2	445.0	444.7
117.5°	509.1	509.0	508.7	508.3	508.0	507.7	506.9	506.2	505.4	504.6	504.0
120°	552.2	552.4	551.7	551.0	550.3	549.6	548.5	547.4	546.2	545.1	544.7
122.5°	592.0	592.0	591.7	591.4	591.0	590.7	589.9	589.1	588.4	587.6	586.8
125°	652.4	652.3	652.0	651.8	651.6	651.3	650.9	650.5	650.0	649.5	649.0
127.5°	711.2	711.4	711.0	710.7	710.3	709.9	709.5	709.0	708.5	708.1	707.7
130°	750.7	751.0	751.0	751.0	751.0	751.0	750.5	750.1	749.6	749.2	748.5
132.5°	790.2	790.4	790.2	790.0	789.8	789.6	789.2	788.7	788.3	787.8	787.4
135°	846.9	847.6	847.6	847.6	847.6	847.6	847.2	846.7	846.2	845.7	845.2
137.5°	901.9	902.5	902.8	903.2	903.5	903.9	903.2	902.7	902.1	901.5	901.3
140°	939.8	940.0	940.0	940.0	940.0	940.0	939.8	939.6	939.4	939.1	938.9
142.5°	975.2	975.3	975.1	974.9	974.8	974.5	974.5	974.5	974.5	974.4	974.3
145°	1025.9	1026.4	1026.7	1026.9	1027.1	1027.4	1027.1	1026.9	1026.7	1026.4	1026.0
147.5°	1075.1	1075.5	1075.4	1075.2	1075.0	1074.8	1074.7	1074.4	1074.3	1074.1	1073.9
150°	1104.0	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.3
152.5°	1130.4	1130.8	1131.0	1131.2	1131.4	1131.6	1132.1	1132.7	1133.2	1133.8	1133.7
155°	1171.2	1171.1	1170.8	1170.6	1170.4	1170.2	1171.1	1172.0	1172.9	1173.9	1173.9
157.5°	1205.7	1205.5	1205.5	1205.4	1205.4	1205.3	1206.0	1206.7	1207.4	1208.1	1208.0
160°	1227.8	1227.6	1227.3	1227.2	1226.9	1226.7	1227.3	1228.0	1228.8	1229.4	1229.2
162.5°	1246.1	1245.7	1245.5	1245.2	1245.0	1244.8	1246.0	1247.2	1248.5	1249.7	1249.7
165°	1272.2	1271.7	1271.2	1270.7	1270.3	1269.8	1271.2	1272.6	1273.9	1275.3	1275.6
167.5°	1291.5	1291.0	1291.1	1291.1	1291.2	1291.2	1292.6	1294.0	1295.3	1296.6	1296.6
170°	1302.3	1301.8	1302.0	1302.3	1302.5	1302.7	1304.1	1305.4	1306.8	1308.2	1308.1
172.5°	1311.2	1310.7	1310.8	1310.8	1310.9	1310.9	1312.5	1314.0	1315.6	1317.2	1317.1
175°	1321.8	1321.0	1320.9	1320.6	1320.4	1320.2	1321.8	1323.3	1324.9	1326.6	1326.6
177.5°	1326.4	1326.0	1326.0	1326.0	1326.0	1326.0	1327.2	1328.5	1329.8	1331.0	1330.9
180°	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4



TEST NUMBER: P332824-927

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0
2.5°	1259.8	1258.9	1255.8	1255.5	1255.8	1258.9	1259.8	1260.7	1261.9	1266.4	1261.1
5°	1163.7	1161.0	1159.4	1165.4	1159.4	1161.0	1163.7	1167.0	1172.5	1173.1	1178.5
7.5°	1091.3	1089.2	1084.3	1082.8	1084.3	1089.2	1091.3	1093.3	1098.8	1103.5	1111.6
10°	1044.9	1042.7	1038.3	1037.2	1038.3	1042.7	1044.9	1050.4	1055.8	1061.8	1067.4
12.5°	1000.2	995.9	995.0	996.0	995.0	995.9	1000.2	1007.4	1021.7	1021.6	1022.6
15°	940.9	938.7	932.6	934.3	932.6	938.7	940.9	948.0	954.5	962.7	971.0
17.5°	882.3	879.7	872.4	878.8	872.4	879.7	882.3	886.2	894.6	906.3	918.6
20°	845.6	841.1	837.3	836.8	837.3	841.1	845.6	849.4	858.7	868.5	877.9
22.5°	810.5	806.6	806.2	802.6	806.2	806.6	810.5	816.5	825.9	831.3	840.2
25°	766.7	762.9	761.8	759.1	761.8	762.9	766.7	771.1	777.1	781.5	791.3
27.5°	733.1	731.2	729.2	730.1	729.2	731.2	733.1	733.6	736.3	742.2	747.8
30°	712.5	711.9	710.8	710.8	710.8	711.9	712.5	710.8	713.6	716.3	720.7
32.5°	695.4	695.3	695.9	695.9	695.9	695.3	695.4	692.8	693.9	694.8	697.0
35°	671.4	673.0	674.1	672.5	674.1	673.0	671.4	669.2	667.6	663.8	664.8
37.5°	649.7	651.3	652.9	654.7	652.9	651.3	649.7	645.2	641.3	637.9	634.0
40°	633.0	636.9	638.0	640.7	638.0	636.9	633.0	628.1	623.8	620.0	615.5
42.5°	617.3	621.5	624.4	625.0	624.4	621.5	617.3	612.4	605.8	601.1	594.9
45°	593.1	597.5	601.3	601.3	601.3	597.5	593.1	584.9	577.7	570.6	564.6
47.5°	568.0	574.3	578.2	579.2	578.2	574.3	568.0	559.6	549.6	540.8	532.2
50°	551.0	558.6	562.4	565.1	562.4	558.6	551.0	541.6	531.2	520.2	509.8
52.5°	534.2	541.9	547.1	548.5	547.1	541.9	534.2	522.8	510.2	498.4	489.3
55°	505.5	516.4	522.4	524.7	522.4	516.4	505.5	492.9	480.9	466.0	452.9
57.5°	478.3	488.4	495.4	497.0	495.4	488.4	478.3	463.5	448.0	432.2	418.2
60°	457.2	468.3	477.0	478.6	477.0	468.3	457.2	442.5	426.0	410.7	393.2
62.5°	435.8	447.2	455.1	459.4	455.1	447.2	435.8	420.2	402.4	385.3	367.8
65°	398.7	410.2	417.9	419.5	417.9	410.2	398.7	383.3	364.7	346.7	331.8
67.5°	358.1	369.6	374.7	377.9	374.7	369.6	358.1	343.7	325.3	306.6	289.8
70°	329.7	339.0	344.4	347.2	344.4	339.0	329.7	314.3	299.0	279.9	261.7
72.5°	297.2	307.0	313.4	313.9	313.4	307.0	297.2	284.1	267.9	250.1	234.2
75°	247.6	256.3	259.6	259.6	259.6	256.3	247.6	235.0	221.8	207.6	191.7
77.5°	195.9	200.4	204.6	205.5	204.6	200.4	195.9	186.9	176.0	161.8	149.8
80°	162.6	165.4	168.7	168.7	168.7	165.4	162.6	154.4	144.0	132.0	122.7
82.5°	128.5	130.8	134.0	133.6	134.0	130.8	128.5	122.0	113.4	105.3	96.8
85°	77.8	82.7	82.1	81.0	82.1	82.7	77.8	78.8	70.7	65.2	57.5
87.5°	41.0	41.4	42.9	43.8	42.9	41.4	41.0	39.5	35.4	33.0	30.9
90°	29.5	29.9	30.3	30.8	30.3	29.9	29.5	29.0	28.0	26.7	25.3
92.5°	44.8	45.1	45.3	45.6	45.3	45.1	44.8	44.5	44.0	43.2	42.3
95°	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	80.8	80.2	79.5
97.5°	127.2	127.2	127.2	127.2	127.2	127.2	127.2	127.2	126.7	126.0	125.2
100°	159.2	159.2	159.2	159.2	159.2	159.2	159.2	159.2	159.0	158.6	158.1
102.5°	194.9	195.0	195.2	195.4	195.2	195.0	194.9	194.6	194.2	193.6	193.0
105°	248.6	249.3	250.0	250.6	250.0	249.3	248.6	248.0	247.2	246.6	245.9
107.5°	304.7	304.6	304.6	304.5	304.6	304.6	304.7	304.7	304.4	303.7	303.1
110°	341.1	341.7	342.5	343.2	342.5	341.7	341.1	340.4	340.3	340.7	341.2



TEST NUMBER: P332824-927

CATALOG NUMBER: S124DIW-S1020D1340U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	382.1	382.3	382.5	382.6	382.5	382.3	382.1	382.1	382.0	382.1	382.2
115°	444.5	444.3	444.0	443.9	444.0	444.3	444.5	444.7	445.0	445.2	445.4
117.5°	503.5	503.1	502.6	502.2	502.6	503.1	503.5	504.0	504.6	505.4	506.2
120°	545.2	545.7	546.1	546.5	546.1	545.7	545.2	544.7	545.1	546.2	547.4
122.5°	586.0	585.2	584.4	583.5	584.4	585.2	586.0	586.8	587.6	588.4	589.1
125°	648.6	648.2	647.7	647.2	647.7	648.2	648.6	649.0	649.5	650.0	650.5
127.5°	707.3	706.9	706.5	706.2	706.5	706.9	707.3	707.7	708.1	708.5	709.0
130°	747.6	746.6	745.8	744.8	745.8	746.6	747.6	748.5	749.2	749.6	750.1
132.5°	787.0	786.6	786.3	785.9	786.3	786.6	787.0	787.4	787.8	788.3	788.7
135°	844.5	843.8	843.1	842.4	843.1	843.8	844.5	845.2	845.7	846.2	846.7
137.5°	901.4	901.6	901.7	901.8	901.7	901.6	901.4	901.3	901.5	902.1	902.7
140°	938.7	938.4	938.2	938.0	938.2	938.4	938.7	938.9	939.1	939.4	939.6
142.5°	974.3	974.2	974.2	974.1	974.2	974.2	974.3	974.3	974.4	974.5	974.5
145°	1025.3	1024.6	1024.0	1023.3	1024.0	1024.6	1025.3	1026.0	1026.4	1026.7	1026.9
147.5°	1073.6	1073.4	1073.2	1073.0	1073.2	1073.4	1073.6	1073.9	1074.1	1074.3	1074.4
150°	1104.1	1103.8	1103.6	1103.4	1103.6	1103.8	1104.1	1104.3	1104.4	1104.4	1104.4
152.5°	1133.1	1132.5	1131.9	1131.3	1131.9	1132.5	1133.1	1133.7	1133.8	1133.2	1132.7
155°	1172.9	1172.0	1171.1	1170.2	1171.1	1172.0	1172.9	1173.9	1173.9	1172.9	1172.0
157.5°	1207.2	1206.4	1205.7	1204.9	1205.7	1206.4	1207.2	1208.0	1208.1	1207.4	1206.7
160°	1228.0	1226.9	1225.7	1224.6	1225.7	1226.9	1228.0	1229.2	1229.4	1228.8	1228.0
162.5°	1248.6	1247.4	1246.3	1245.2	1246.3	1247.4	1248.6	1249.7	1249.7	1248.5	1247.2
165°	1274.6	1273.7	1272.8	1271.8	1272.8	1273.7	1274.6	1275.6	1275.3	1273.9	1272.6
167.5°	1295.2	1293.8	1292.4	1291.0	1292.4	1293.8	1295.2	1296.6	1296.6	1295.3	1294.0
170°	1306.5	1304.9	1303.3	1301.7	1303.3	1304.9	1306.5	1308.1	1308.2	1306.8	1305.4
172.5°	1315.5	1313.9	1312.3	1310.7	1312.3	1313.9	1315.5	1317.1	1317.2	1315.6	1314.0
175°	1324.9	1323.3	1321.8	1320.2	1321.8	1323.3	1324.9	1326.6	1326.6	1324.9	1323.3
177.5°	1329.5	1328.0	1326.6	1325.1	1326.6	1328.0	1329.5	1330.9	1331.0	1329.8	1328.5
180°	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4



TEST NUMBER: P332824-927

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0
2.5°	1263.8	1265.5	1272.5	1279.1	1287.0	1292.7	1296.6	1301.0	1310.2	1317.6	1324.6
5°	1184.0	1186.8	1200.9	1210.9	1227.8	1242.6	1254.1	1266.7	1281.5	1301.7	1320.3
7.5°	1113.8	1123.9	1139.6	1155.6	1172.8	1192.2	1209.1	1228.0	1253.5	1281.4	1310.0
10°	1074.0	1085.4	1101.8	1120.5	1136.9	1159.4	1180.2	1202.6	1231.6	1265.6	1299.6
12.5°	1034.0	1053.0	1065.5	1087.6	1105.3	1123.9	1146.0	1175.4	1209.3	1245.0	1285.9
15°	984.1	994.5	1018.6	1030.6	1055.8	1084.3	1106.2	1135.8	1168.6	1215.8	1261.8
17.5°	926.5	940.2	959.3	982.4	1011.3	1033.5	1060.8	1091.2	1132.7	1179.4	1237.0
20°	888.8	900.3	923.8	949.0	979.7	1003.3	1032.3	1061.8	1104.6	1154.4	1214.7
22.5°	855.1	866.2	891.0	914.4	944.2	973.0	1003.4	1037.8	1078.7	1131.2	1192.8
25°	802.9	817.6	839.6	863.6	892.1	925.0	957.8	988.5	1032.3	1087.6	1153.3
27.5°	756.5	768.3	784.3	811.6	843.9	875.7	908.3	946.9	989.0	1047.4	1115.6
30°	726.7	737.7	753.5	778.7	808.9	842.8	876.8	914.0	957.8	1015.9	1085.4
32.5°	703.1	711.4	725.5	748.1	775.5	811.3	844.8	883.4	929.3	986.5	1054.3
35°	668.1	675.3	680.7	702.1	726.7	759.5	793.5	834.6	878.9	933.2	1001.1
37.5°	633.8	636.3	644.3	658.2	682.1	712.4	743.9	784.3	829.8	884.9	946.1
40°	612.8	613.9	618.9	632.0	652.8	681.3	711.9	751.9	795.2	847.2	908.0
42.5°	592.2	591.5	596.0	605.2	624.7	650.6	680.8	717.3	760.6	808.7	865.9
45°	559.7	559.7	558.6	566.3	582.2	607.4	632.6	667.6	703.7	750.8	799.0
47.5°	525.8	522.7	523.6	527.6	541.0	561.7	587.1	615.8	647.6	687.5	729.8
50°	503.8	499.5	497.8	502.2	514.2	532.3	556.4	581.6	611.7	646.7	682.9
52.5°	479.7	475.4	472.4	475.5	486.6	503.4	525.3	547.4	574.5	602.9	634.3
55°	442.5	437.6	435.9	437.0	445.2	458.4	477.0	497.3	517.5	541.1	563.0
57.5°	405.8	397.7	396.2	395.6	401.3	413.4	428.9	446.5	461.2	475.5	498.8
60°	381.7	371.9	368.5	368.0	372.4	382.2	396.5	414.0	424.5	434.3	454.6
62.5°	355.8	346.4	339.2	340.0	343.9	353.3	365.8	378.5	385.4	396.2	409.9
65°	316.0	304.0	298.5	296.8	299.0	306.7	316.6	324.7	332.4	336.8	349.9
67.5°	276.2	266.0	257.9	256.0	255.0	260.2	268.3	273.3	278.8	282.6	290.3
70°	248.1	239.3	229.5	226.2	225.6	230.0	237.7	238.2	245.9	247.6	255.7
72.5°	220.5	209.5	202.7	199.5	197.2	201.1	206.1	207.6	211.8	214.7	219.0
75°	177.4	169.2	162.6	157.7	156.1	158.3	158.3	161.0	163.7	165.4	170.3
77.5°	139.7	130.2	122.5	119.6	117.6	116.2	117.4	119.1	117.7	120.6	121.7
80°	113.4	103.5	97.5	96.4	93.1	90.4	89.8	91.4	89.3	90.4	93.6
82.5°	87.5	81.2	74.7	73.6	69.5	68.0	67.5	66.5	66.5	66.2	66.9
85°	52.0	48.2	43.8	41.0	39.5	36.7	36.7	35.6	34.5	33.4	34.0
87.5°	25.8	24.6	22.1	20.4	19.2	17.1	16.6	14.8	13.9	12.9	12.0
90°	24.0	22.6	20.8	18.9	17.1	15.3	13.2	10.6	8.1	5.6	3.1
92.5°	41.5	40.7	39.4	38.1	36.8	35.6	33.5	30.6	27.7	24.9	22.0
95°	78.7	78.1	76.4	74.9	73.3	71.7	69.9	67.8	65.8	63.7	61.6
97.5°	124.3	123.5	121.6	119.8	117.9	116.0	114.2	112.6	111.0	109.3	107.7
100°	157.6	157.2	155.1	153.0	151.0	148.9	147.5	146.6	145.7	144.7	143.9
102.5°	192.3	191.7	189.8	188.0	186.1	184.2	183.1	182.8	182.4	182.0	181.6
105°	245.2	244.5	243.6	242.7	241.8	240.8	240.3	240.0	239.9	239.6	239.4
107.5°	302.5	301.8	301.7	301.6	301.4	301.3	301.1	300.8	300.6	300.2	300.0
110°	341.7	342.1	342.4	342.5	342.8	343.0	342.9	342.5	342.0	341.5	341.1



TEST NUMBER: P332824-927

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	382.3	382.4	382.8	383.2	383.7	384.0	384.2	384.1	384.0	383.9	383.8
115°	445.7	445.8	446.3	446.8	447.3	447.7	447.9	447.9	447.9	447.9	447.9
117.5°	506.9	507.7	508.0	508.3	508.7	509.0	509.1	508.9	508.7	508.5	508.3
120°	548.5	549.6	550.3	551.0	551.7	552.4	552.2	551.4	550.4	549.5	548.6
122.5°	589.9	590.7	591.0	591.4	591.7	592.0	592.0	591.6	591.3	590.9	590.5
125°	650.9	651.3	651.6	651.8	652.0	652.3	652.4	652.4	652.4	652.4	652.4
127.5°	709.5	709.9	710.3	710.7	711.0	711.4	711.2	710.5	709.9	709.2	708.4
130°	750.5	751.0	751.0	751.0	751.0	751.0	750.7	750.0	749.3	748.6	747.9
132.5°	789.2	789.6	789.8	790.0	790.2	790.4	790.2	789.7	789.2	788.7	788.2
135°	847.2	847.6	847.6	847.6	847.6	847.6	846.9	845.5	844.1	842.8	841.4
137.5°	903.2	903.9	903.5	903.2	902.8	902.5	901.9	901.3	900.6	900.0	899.4
140°	939.8	940.0	940.0	940.0	940.0	940.0	939.8	939.4	938.9	938.4	938.0
142.5°	974.5	974.5	974.8	974.9	975.1	975.3	975.2	974.7	974.2	973.8	973.4
145°	1027.1	1027.4	1027.1	1026.9	1026.7	1026.4	1025.9	1025.0	1024.1	1023.2	1022.2
147.5°	1074.7	1074.8	1075.0	1075.2	1075.4	1075.5	1075.1	1074.0	1072.9	1071.8	1070.7
150°	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.0	1103.0	1102.2	1101.2	1100.3
152.5°	1132.1	1131.6	1131.4	1131.2	1131.0	1130.8	1130.4	1129.9	1129.3	1128.8	1128.2
155°	1171.1	1170.2	1170.4	1170.6	1170.8	1171.1	1171.2	1171.2	1171.2	1171.2	1171.2
157.5°	1206.0	1205.3	1205.4	1205.4	1205.5	1205.5	1205.7	1206.1	1206.6	1207.0	1207.4
160°	1227.3	1226.7	1226.9	1227.2	1227.3	1227.6	1227.8	1228.0	1228.3	1228.5	1228.8
162.5°	1246.0	1244.8	1245.0	1245.2	1245.5	1245.7	1246.1	1246.7	1247.3	1247.8	1248.5
165°	1271.2	1269.8	1270.3	1270.7	1271.2	1271.7	1272.2	1272.9	1273.6	1274.3	1274.9
167.5°	1292.6	1291.2	1291.2	1291.1	1291.1	1291.0	1291.5	1292.4	1293.4	1294.3	1295.3
170°	1304.1	1302.7	1302.5	1302.3	1302.0	1301.8	1302.3	1303.4	1304.6	1305.7	1306.8
172.5°	1312.5	1310.9	1310.9	1310.8	1310.8	1310.7	1311.2	1312.2	1313.1	1314.1	1315.0
175°	1321.8	1320.2	1320.4	1320.6	1320.9	1321.0	1321.8	1322.9	1324.1	1325.2	1326.4
177.5°	1327.2	1326.0	1326.0	1326.0	1326.0	1326.0	1326.4	1327.3	1328.2	1329.1	1330.0
180°	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4



TEST NUMBER: P332824-927

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0
2.5°	1330.8	1335.1	1340.8	1350.5	1354.0	1358.4	1364.5	1364.1	1365.8	1372.4	1386.4
5°	1335.7	1352.7	1369.1	1388.9	1409.6	1423.3	1441.9	1453.4	1464.9	1479.7	1504.9
7.5°	1337.7	1364.6	1394.7	1429.3	1460.2	1495.6	1523.3	1549.4	1573.0	1604.2	1634.2
10°	1334.6	1370.7	1409.6	1453.4	1500.0	1539.4	1575.0	1615.6	1650.0	1687.8	1721.8
12.5°	1328.9	1372.5	1424.5	1473.6	1528.0	1586.3	1630.6	1671.6	1717.5	1761.0	1813.4
15°	1316.0	1375.7	1436.5	1501.1	1573.9	1641.2	1705.3	1758.5	1807.8	1873.0	1941.4
17.5°	1299.6	1364.0	1440.6	1518.9	1595.0	1672.0	1751.3	1831.1	1893.3	1974.3	2027.8
20°	1284.2	1358.7	1437.6	1530.7	1606.8	1702.6	1781.5	1858.7	1944.1	2024.7	2088.7
22.5°	1262.7	1344.3	1427.9	1520.6	1620.8	1716.7	1807.8	1891.6	1977.0	2064.5	2142.1
25°	1235.5	1309.4	1408.5	1513.7	1613.4	1717.4	1822.0	1927.1	2019.1	2111.7	2184.0
27.5°	1189.1	1282.4	1374.7	1483.2	1593.9	1711.7	1823.5	1933.6	2030.0	2106.1	2150.9
30°	1165.4	1246.4	1346.6	1455.6	1575.6	1702.1	1818.7	1926.6	2016.4	2077.2	2095.2
32.5°	1130.4	1214.0	1312.0	1425.0	1551.9	1681.9	1803.4	1905.1	1980.1	2011.9	1990.1
35°	1078.3	1153.9	1253.0	1368.6	1500.6	1639.1	1759.0	1845.0	1883.3	1853.2	1778.2
37.5°	1015.9	1090.8	1190.3	1303.9	1440.4	1581.3	1689.7	1751.6	1738.8	1664.0	1552.1
40°	972.1	1042.2	1136.9	1259.6	1392.7	1533.9	1629.2	1662.6	1627.6	1520.3	1401.4
42.5°	923.4	991.8	1087.0	1205.2	1346.2	1476.5	1559.6	1562.3	1503.6	1375.2	1255.9
45°	849.4	914.6	1004.4	1127.6	1257.9	1380.6	1435.4	1408.5	1300.1	1176.3	1056.4
47.5°	776.3	832.8	921.4	1038.3	1162.1	1265.4	1292.5	1244.2	1128.7	1008.5	897.4
50°	722.9	779.8	863.1	974.8	1094.2	1183.4	1196.6	1132.5	1019.1	898.1	811.0
52.5°	671.6	728.2	808.3	911.7	1021.0	1101.5	1101.9	1027.8	914.9	807.0	726.0
55°	596.4	647.3	719.6	812.1	909.7	972.6	957.3	880.6	782.6	689.0	618.3
57.5°	523.9	568.2	634.9	712.0	797.9	849.9	824.4	750.6	663.1	583.7	530.1
60°	477.0	519.2	576.2	649.0	721.3	761.8	737.7	670.8	590.3	526.2	479.7
62.5°	431.4	467.0	521.8	585.0	652.0	682.1	660.6	594.6	525.1	467.1	429.4
65°	366.9	395.9	439.7	494.0	542.7	568.5	550.4	489.0	435.9	394.3	364.2
67.5°	306.7	329.4	362.5	406.0	447.4	461.4	444.9	402.2	357.2	323.8	302.6
70°	265.1	286.5	314.3	347.8	383.9	398.7	382.2	348.3	311.6	280.9	260.2
72.5°	228.7	245.3	268.8	297.4	325.7	340.4	329.2	296.6	265.6	242.8	225.1
75°	174.1	188.4	204.8	225.1	247.0	256.8	247.0	224.5	203.2	186.2	173.6
77.5°	126.6	134.3	146.9	162.1	175.8	183.3	174.8	159.5	146.6	134.9	128.7
80°	96.4	101.9	110.6	122.7	132.0	139.1	133.6	121.0	110.6	103.0	100.2
82.5°	70.1	73.8	79.5	88.5	94.7	98.4	95.9	86.8	82.5	75.8	73.0
85°	34.5	36.7	40.6	43.3	48.7	49.3	49.8	46.0	42.1	40.6	38.3
87.5°	12.9	13.9	15.7	17.5	19.7	20.5	20.4	20.8	19.4	19.3	17.7
90°	5.6	8.1	10.6	13.2	15.3	17.1	18.9	20.8	22.6	24.0	25.3
92.5°	24.9	27.7	30.6	33.5	35.6	36.8	38.1	39.4	40.7	41.5	42.3
95°	63.7	65.8	67.8	69.9	71.7	73.3	74.9	76.4	78.1	78.7	79.5
97.5°	109.3	111.0	112.6	114.2	116.0	117.9	119.8	121.6	123.5	124.3	125.2
100°	144.7	145.7	146.6	147.5	148.9	151.0	153.0	155.1	157.2	157.6	158.1
102.5°	182.0	182.4	182.8	183.1	184.2	186.1	188.0	189.8	191.7	192.3	193.0
105°	239.6	239.9	240.0	240.3	240.8	241.8	242.7	243.6	244.5	245.2	245.9
107.5°	300.2	300.6	300.8	301.1	301.3	301.4	301.6	301.7	301.8	302.5	303.1
110°	341.5	342.0	342.5	342.9	343.0	342.8	342.5	342.4	342.1	341.7	341.2



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	383.9	384.0	384.1	384.2	384.0	383.7	383.2	382.8	382.4	382.3	382.2
115°	447.9	447.9	447.9	447.9	447.7	447.3	446.8	446.3	445.8	445.7	445.4
117.5°	508.5	508.7	508.9	509.1	509.0	508.7	508.3	508.0	507.7	506.9	506.2
120°	549.5	550.4	551.4	552.2	552.4	551.7	551.0	550.3	549.6	548.5	547.4
122.5°	590.9	591.3	591.6	592.0	592.0	591.7	591.4	591.0	590.7	589.9	589.1
125°	652.4	652.4	652.4	652.4	652.3	652.0	651.8	651.6	651.3	650.9	650.5
127.5°	709.2	709.9	710.5	711.2	711.4	711.0	710.7	710.3	709.9	709.5	709.0
130°	748.6	749.3	750.0	750.7	751.0	751.0	751.0	751.0	751.0	750.5	750.1
132.5°	788.7	789.2	789.7	790.2	790.4	790.2	790.0	789.8	789.6	789.2	788.7
135°	842.8	844.1	845.5	846.9	847.6	847.6	847.6	847.6	847.6	847.2	846.7
137.5°	900.0	900.6	901.3	901.9	902.5	902.8	903.2	903.5	903.9	903.2	902.7
140°	938.4	938.9	939.4	939.8	940.0	940.0	940.0	940.0	940.0	939.8	939.6
142.5°	973.8	974.2	974.7	975.2	975.3	975.1	974.9	974.8	974.5	974.5	974.5
145°	1023.2	1024.1	1025.0	1025.9	1026.4	1026.7	1026.9	1027.1	1027.4	1027.1	1026.9
147.5°	1071.8	1072.9	1074.0	1075.1	1075.5	1075.4	1075.2	1075.0	1074.8	1074.7	1074.4
150°	1101.2	1102.2	1103.0	1104.0	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4
152.5°	1128.8	1129.3	1129.9	1130.4	1130.8	1131.0	1131.2	1131.4	1131.6	1132.1	1132.7
155°	1171.2	1171.2	1171.2	1171.2	1171.1	1170.8	1170.6	1170.4	1170.2	1171.1	1172.0
157.5°	1207.0	1206.6	1206.1	1205.7	1205.5	1205.5	1205.4	1205.4	1205.3	1206.0	1206.7
160°	1228.5	1228.3	1228.0	1227.8	1227.6	1227.3	1227.2	1226.9	1226.7	1227.3	1228.0
162.5°	1247.8	1247.3	1246.7	1246.1	1245.7	1245.5	1245.2	1245.0	1244.8	1246.0	1247.2
165°	1274.3	1273.6	1272.9	1272.2	1271.7	1271.2	1270.7	1270.3	1269.8	1271.2	1272.6
167.5°	1294.3	1293.4	1292.4	1291.5	1291.0	1291.1	1291.1	1291.2	1291.2	1292.6	1294.0
170°	1305.7	1304.6	1303.4	1302.3	1301.8	1302.0	1302.3	1302.5	1302.7	1304.1	1305.4
172.5°	1314.1	1313.1	1312.2	1311.2	1310.7	1310.8	1310.8	1310.9	1310.9	1312.5	1314.0
175°	1325.2	1324.1	1322.9	1321.8	1321.0	1320.9	1320.6	1320.4	1320.2	1321.8	1323.3
177.5°	1329.1	1328.2	1327.3	1326.4	1326.0	1326.0	1326.0	1326.0	1326.0	1327.2	1328.5
180°	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0
2.5°	1393.4	1394.3	1398.2	1401.3	1402.2	1406.6	1407.0
5°	1515.8	1525.2	1543.3	1544.9	1547.6	1561.9	1550.9
7.5°	1659.4	1683.0	1698.8	1712.7	1717.8	1723.9	1722.7
10°	1751.4	1786.4	1804.0	1831.8	1833.0	1840.1	1835.7
12.5°	1843.8	1884.5	1916.5	1921.7	1945.1	1948.7	1954.9
15°	1974.8	2018.1	2062.4	2078.3	2110.6	2118.3	2130.3
17.5°	2097.9	2142.1	2173.3	2214.3	2227.6	2245.4	2233.2
20°	2165.4	2213.6	2253.0	2285.3	2299.0	2308.8	2307.8
22.5°	2206.1	2254.7	2286.7	2311.1	2323.9	2328.1	2327.9
25°	2231.7	2259.5	2269.4	2278.7	2264.5	2259.5	2261.8
27.5°	2160.7	2153.5	2127.7	2094.0	2058.9	2031.1	2015.9
30°	2063.0	2020.2	1981.3	1913.4	1878.4	1857.6	1839.0
32.5°	1924.5	1856.8	1782.0	1719.8	1680.0	1649.1	1644.5
35°	1687.3	1585.4	1494.0	1417.8	1378.4	1345.0	1337.4
37.5°	1434.5	1328.6	1246.3	1179.3	1136.9	1113.3	1091.3
40°	1266.7	1175.8	1094.7	1037.8	1005.4	988.5	974.8
42.5°	1137.4	1054.4	973.8	930.4	901.2	890.8	882.8
45°	958.9	881.7	825.9	793.0	776.0	758.5	750.3
47.5°	815.9	753.1	716.3	688.4	670.2	659.8	654.5
50°	734.9	683.4	650.6	629.2	612.8	604.6	600.2
52.5°	663.1	620.8	593.2	576.2	565.1	559.0	557.3
55°	571.2	538.8	521.3	506.6	498.4	492.9	490.7
57.5°	496.5	471.7	457.4	445.2	442.0	437.4	435.9
60°	447.4	428.3	416.2	408.0	405.3	399.8	400.8
62.5°	404.0	388.4	378.1	373.4	369.8	365.2	366.7
65°	341.7	330.3	324.7	320.4	316.0	313.2	315.4
67.5°	286.8	278.8	271.4	268.9	266.7	266.3	264.0
70°	250.8	244.2	237.7	236.1	236.1	233.9	233.3
72.5°	216.2	211.4	207.0	205.8	204.1	204.9	202.6
75°	167.0	163.2	161.5	159.9	159.4	159.4	157.7
77.5°	123.4	120.6	118.0	118.0	116.0	115.3	115.0
80°	93.6	92.5	90.4	90.4	89.3	89.8	88.7
82.5°	70.4	68.9	68.4	67.6	66.1	66.1	65.0
85°	37.8	36.1	35.6	34.0	32.9	34.0	32.9
87.5°	18.5	18.3	18.1	17.3	17.0	17.0	15.8
90°	26.7	28.0	29.0	29.5	29.9	30.3	30.8
92.5°	43.2	44.0	44.5	44.8	45.1	45.3	45.6
95°	80.2	80.8	81.2	81.2	81.2	81.2	81.2
97.5°	126.0	126.7	127.2	127.2	127.2	127.2	127.2
100°	158.6	159.0	159.2	159.2	159.2	159.2	159.2
102.5°	193.6	194.2	194.6	194.9	195.0	195.2	195.4
105°	246.6	247.2	248.0	248.6	249.3	250.0	250.6
107.5°	303.7	304.4	304.7	304.7	304.6	304.6	304.5
110°	340.7	340.3	340.4	341.1	341.7	342.5	343.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	382.1	382.0	382.1	382.1	382.3	382.5	382.6
115°	445.2	445.0	444.7	444.5	444.3	444.0	443.9
117.5°	505.4	504.6	504.0	503.5	503.1	502.6	502.2
120°	546.2	545.1	544.7	545.2	545.7	546.1	546.5
122.5°	588.4	587.6	586.8	586.0	585.2	584.4	583.5
125°	650.0	649.5	649.0	648.6	648.2	647.7	647.2
127.5°	708.5	708.1	707.7	707.3	706.9	706.5	706.2
130°	749.6	749.2	748.5	747.6	746.6	745.8	744.8
132.5°	788.3	787.8	787.4	787.0	786.6	786.3	785.9
135°	846.2	845.7	845.2	844.5	843.8	843.1	842.4
137.5°	902.1	901.5	901.3	901.4	901.6	901.7	901.8
140°	939.4	939.1	938.9	938.7	938.4	938.2	938.0
142.5°	974.5	974.4	974.3	974.3	974.2	974.2	974.1
145°	1026.7	1026.4	1026.0	1025.3	1024.6	1024.0	1023.3
147.5°	1074.3	1074.1	1073.9	1073.6	1073.4	1073.2	1073.0
150°	1104.4	1104.4	1104.3	1104.1	1103.8	1103.6	1103.4
152.5°	1133.2	1133.8	1133.7	1133.1	1132.5	1131.9	1131.3
155°	1172.9	1173.9	1173.9	1172.9	1172.0	1171.1	1170.2
157.5°	1207.4	1208.1	1208.0	1207.2	1206.4	1205.7	1204.9
160°	1228.8	1229.4	1229.2	1228.0	1226.9	1225.7	1224.6
162.5°	1248.5	1249.7	1249.7	1248.6	1247.4	1246.3	1245.2
165°	1273.9	1275.3	1275.6	1274.6	1273.7	1272.8	1271.8
167.5°	1295.3	1296.6	1296.6	1295.2	1293.8	1292.4	1291.0
170°	1306.8	1308.2	1308.1	1306.5	1304.9	1303.3	1301.7
172.5°	1315.6	1317.2	1317.1	1315.5	1313.9	1312.3	1310.7
175°	1324.9	1326.6	1326.6	1324.9	1323.3	1321.8	1320.2
177.5°	1329.8	1331.0	1330.9	1329.5	1328.0	1326.6	1325.1
180°	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4	1328.4

(END OF REPORT)