

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: P332823-927

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332823-927  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,  
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-A  
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1340 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7900.9 lumens  
Efficiency: N/A  
Efficacy: 113.2 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

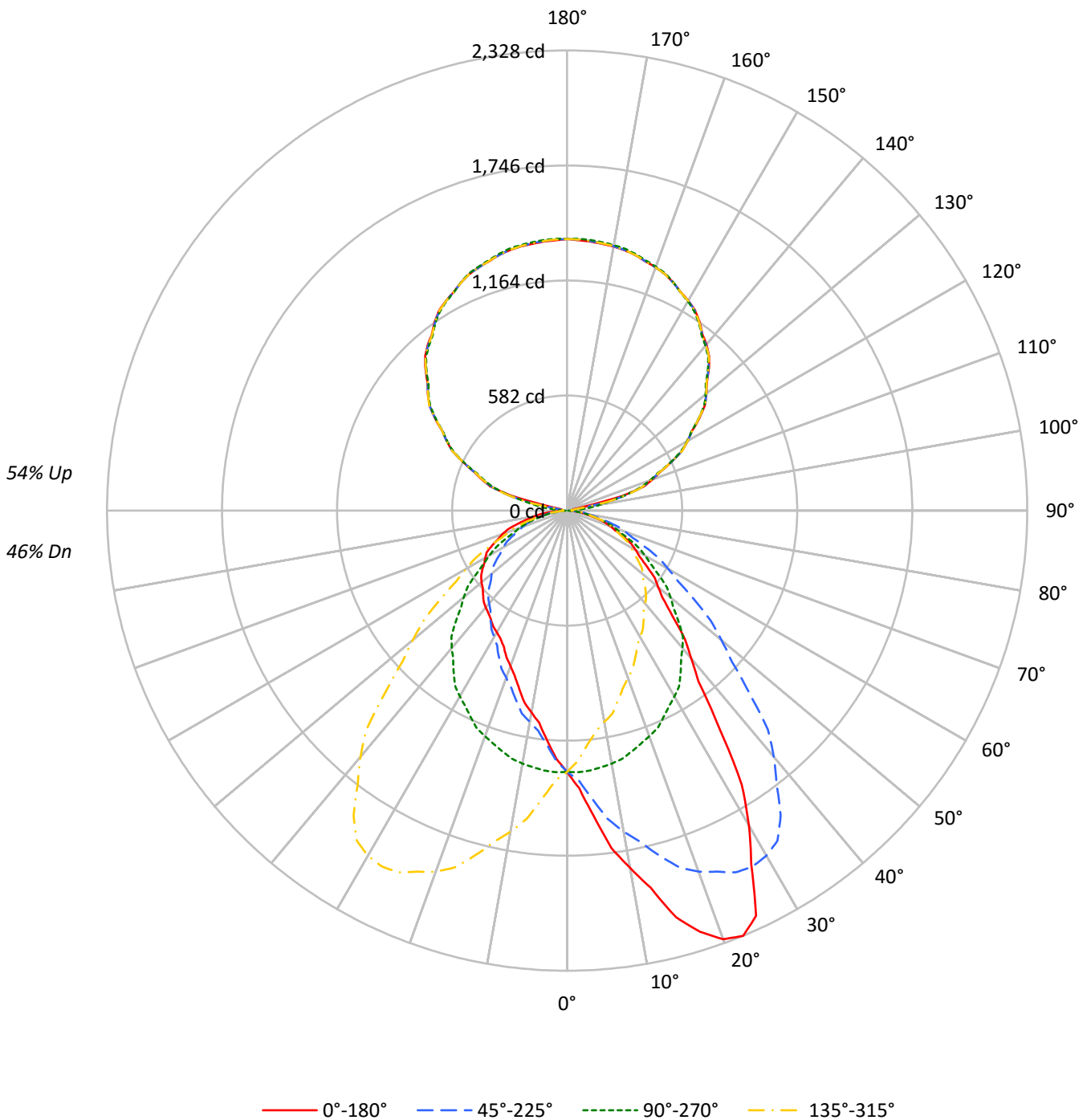
Input Watts (W): 69.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0	
RCR																						
0	106	106	106	106	98	98	98	98	81	81	81	66	66	66	53	53	53	46				
1	97	93	89	86	89	85	82	79	71	69	67	59	57	56	47	46	45	39				
2	89	81	75	70	81	75	70	65	63	59	56	52	49	47	41	40	38	33				
3	81	72	65	59	74	66	60	55	56	51	47	46	43	40	37	35	33	28				
4	74	64	56	50	68	59	52	47	50	44	40	41	37	34	33	30	28	25				
5	68	57	49	43	62	52	45	40	44	39	35	37	33	30	30	27	25	21				
6	63	51	43	37	57	47	40	35	40	35	31	33	29	26	27	24	22	19				
7	58	46	38	33	53	43	36	31	36	31	27	30	26	23	25	22	19	17				
8	54	42	34	29	49	39	32	27	33	28	24	28	24	21	23	20	17	15				
9	50	38	31	26	46	35	29	24	30	25	21	26	22	19	21	18	16	14				
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	14	12				

**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	1.6
10°-20°	397.0	5.0
20°-30°	629.5	8.0
30°-40°	700.6	8.9
40°-50°	637.7	8.1
50°-60°	521.1	6.6
60°-70°	372.0	4.7
70°-80°	204.9	2.6
80°-90°	59.9	0.8
90°-100°	47.0	0.6
100°-110°	299.6	3.8
110°-120°	573.1	7.3
120°-130°	727.5	9.2
130°-140°	778.4	9.9
140°-150°	727.9	9.2
150°-160°	587.0	7.4
160°-170°	378.6	4.8
170°-180°	130.5	1.7
0°-30°	1155.3	14.6
0°-40°	1855.8	23.5
0°-60°	3014.6	38.2
0°-90°	3651.4	46.2
90°-120°	919.7	11.6
90°-150°	3153.4	39.9
90°-180°	4250.0	53.8
0°-180°	7900.9	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	14
95°	30	56	30	56	30	24
105°	293	309	293	309	293	255
115°	582	577	582	577	582	576
125°	818	812	818	812	818	728
135°	1014	1007	1014	1007	1014	781
145°	1167	1161	1167	1161	1167	729
155°	1272	1273	1272	1273	1272	587
165°	1337	1343	1337	1343	1337	378
175°	1366	1374	1366	1374	1366	130
180°	1374	1374	1374	1374	1374	



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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	28.1	26.7	25.3	24.0	22.6	20.8
92.5°	28.4	28.3	28.2	28.1	28.0	27.3	25.9	24.6	23.1	21.8	20.0
95°	29.8	29.5	29.3	29.1	28.9	28.1	26.7	25.3	24.0	22.6	22.3
97.5°	28.8	28.5	28.3	28.1	27.9	27.6	27.6	27.4	27.3	27.1	52.6
100°	28.8	28.5	28.3	28.1	27.9	29.7	33.6	37.5	41.4	45.2	76.7
102.5°	29.6	29.5	29.5	29.5	29.4	50.3	92.2	134.1	175.9	217.9	222.0
105°	292.9	301.0	309.3	317.5	325.7	328.8	326.8	324.7	322.7	320.6	319.4
107.5°	408.1	407.3	406.4	405.5	404.6	403.7	402.7	401.7	400.7	399.7	398.2
110°	458.3	457.6	456.9	456.2	455.5	455.0	454.5	454.1	453.6	453.1	451.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	508.4	507.6	506.7	505.8	504.9	504.5	504.6	504.7	504.9	504.9	504.3
115°	581.5	581.5	581.5	581.5	581.5	581.3	580.9	580.4	580.0	579.5	579.7
117.5°	655.9	656.1	656.2	656.2	656.3	656.4	656.5	656.6	656.7	656.8	656.2
120°	702.8	703.3	703.7	704.2	704.6	704.6	704.2	703.7	703.3	702.8	703.1
122.5°	748.8	749.3	749.7	750.2	750.7	750.8	750.5	750.2	750.0	749.6	749.3
125°	817.9	817.7	817.5	817.2	817.0	816.5	815.9	815.2	814.4	813.8	814.2
127.5°	878.5	878.7	878.8	879.1	879.2	879.4	879.6	879.7	879.8	880.0	878.9
130°	919.6	919.6	919.6	919.6	919.6	919.5	919.2	919.0	918.9	918.6	917.9
132.5°	957.4	957.6	957.8	958.0	958.1	958.1	957.9	957.7	957.4	957.2	956.3
135°	1014.2	1013.7	1013.2	1012.8	1012.3	1011.9	1011.4	1011.0	1010.5	1010.0	1009.2
137.5°	1062.6	1062.8	1063.0	1063.0	1063.2	1063.0	1062.5	1062.0	1061.5	1061.0	1060.0
140°	1096.4	1096.1	1095.9	1095.7	1095.4	1095.0	1094.3	1093.6	1092.9	1092.3	1091.8
142.5°	1124.3	1124.3	1124.2	1124.2	1124.1	1123.9	1123.3	1122.8	1122.4	1121.8	1121.6
145°	1167.3	1166.8	1166.3	1165.9	1165.5	1165.1	1164.8	1164.6	1164.4	1164.2	1164.2
147.5°	1202.8	1202.5	1202.4	1202.1	1201.9	1201.7	1201.5	1201.3	1201.1	1200.9	1201.2
150°	1225.8	1225.6	1225.3	1225.1	1224.9	1224.8	1224.8	1224.8	1224.8	1224.8	1225.0
152.5°	1245.5	1245.7	1245.8	1245.9	1246.1	1245.9	1245.6	1245.2	1244.9	1244.5	1244.9
155°	1272.1	1272.7	1273.4	1274.1	1274.8	1274.7	1273.7	1272.9	1271.9	1271.1	1271.7
157.5°	1294.3	1295.5	1296.6	1297.8	1299.0	1299.0	1297.8	1296.6	1295.5	1294.3	1295.1
160°	1309.1	1310.4	1311.8	1313.1	1314.5	1314.5	1313.1	1311.8	1310.4	1309.1	1309.2
162.5°	1320.6	1322.1	1323.7	1325.2	1326.7	1326.8	1325.5	1324.1	1322.7	1321.4	1321.6
165°	1336.8	1338.9	1340.9	1343.0	1345.0	1345.1	1343.3	1341.5	1339.7	1337.8	1337.8
167.5°	1348.9	1351.2	1353.4	1355.7	1358.0	1358.2	1356.1	1354.2	1352.2	1350.1	1350.3
170°	1356.3	1358.6	1360.9	1363.2	1365.4	1365.6	1363.8	1362.0	1360.2	1358.4	1358.1
172.5°	1360.4	1362.9	1365.3	1367.8	1370.3	1370.6	1368.8	1366.9	1365.1	1363.3	1363.0
175°	1365.6	1368.3	1371.0	1373.8	1376.5	1376.9	1374.8	1372.8	1370.7	1368.7	1368.4
177.5°	1368.8	1371.0	1373.2	1375.4	1377.6	1378.0	1376.5	1375.1	1373.6	1372.1	1371.7
180°	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8



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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°	18.1	16.3	14.5	13.5	13.4	13.2	13.1	12.9	13.1	13.2	13.4
95°	22.2	21.9	21.7	25.4	33.2	41.0	48.7	56.5	48.7	41.0	33.2
97.5°	78.1	103.5	129.0	139.3	134.5	129.7	124.8	120.0	124.8	129.7	134.5
100°	108.2	139.7	171.3	185.0	180.9	176.7	172.6	168.5	172.6	176.7	180.9
102.5°	226.1	230.1	234.2	234.8	231.8	228.8	225.8	222.8	225.8	228.8	231.8
105°	318.3	317.2	316.0	314.7	313.4	312.0	310.6	309.3	310.6	312.0	313.4
107.5°	396.6	395.1	393.5	392.4	391.7	391.0	390.3	389.6	390.3	391.0	391.7
110°	450.4	449.0	447.7	446.6	445.9	445.3	444.6	443.9	444.6	445.3	445.9





TEST NUMBER: P332823-927

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

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	503.7	503.0	502.3	501.5	500.2	499.0	497.7	496.5	497.7	499.0	500.2
115°	580.0	580.2	580.4	580.2	579.5	578.8	578.1	577.4	578.1	578.8	579.5
117.5°	655.8	655.3	654.7	654.0	653.2	652.2	651.3	650.4	651.3	652.2	653.2
120°	703.3	703.5	703.7	703.4	702.5	701.6	700.6	699.7	700.6	701.6	702.5
122.5°	749.0	748.7	748.4	748.0	747.4	746.9	746.3	745.8	746.3	746.9	747.4
125°	814.7	815.2	815.6	815.4	814.4	813.6	812.6	811.7	812.6	813.6	814.4
127.5°	877.8	876.8	875.8	875.1	874.9	874.6	874.4	874.2	874.4	874.6	874.9
130°	917.2	916.6	915.8	915.4	915.1	915.0	914.7	914.5	914.7	915.0	915.1
132.5°	955.5	954.7	953.8	953.1	952.7	952.3	951.9	951.5	951.9	952.3	952.7
135°	1008.2	1007.3	1006.4	1006.1	1006.3	1006.5	1006.7	1006.9	1006.7	1006.5	1006.3
137.5°	1059.0	1058.0	1057.0	1056.5	1056.4	1056.2	1056.1	1056.1	1056.1	1056.2	1056.4
140°	1091.3	1090.8	1090.4	1090.0	1089.5	1089.0	1088.6	1088.1	1088.6	1089.0	1089.5
142.5°	1121.3	1121.0	1120.7	1120.2	1119.4	1118.6	1117.7	1116.9	1117.7	1118.6	1119.4
145°	1164.2	1164.2	1164.2	1163.8	1163.2	1162.4	1161.7	1161.1	1161.7	1162.4	1163.2
147.5°	1201.4	1201.7	1201.9	1201.3	1200.1	1198.8	1197.5	1196.2	1197.5	1198.8	1200.1
150°	1225.3	1225.5	1225.7	1225.3	1224.5	1223.5	1222.7	1221.7	1222.7	1223.5	1224.5
152.5°	1245.3	1245.8	1246.2	1246.0	1245.2	1244.5	1243.8	1243.1	1243.8	1244.5	1245.2
155°	1272.4	1273.1	1273.7	1274.0	1273.7	1273.5	1273.3	1273.1	1273.3	1273.5	1273.7
157.5°	1295.8	1296.6	1297.4	1297.8	1297.9	1298.1	1298.2	1298.4	1298.2	1298.1	1297.9
160°	1309.5	1309.7	1310.0	1310.4	1311.1	1311.8	1312.5	1313.1	1312.5	1311.8	1311.1
162.5°	1321.8	1322.1	1322.3	1322.9	1323.7	1324.6	1325.4	1326.3	1325.4	1324.6	1323.7
165°	1337.8	1337.8	1337.8	1338.4	1339.5	1340.7	1341.8	1343.0	1341.8	1340.7	1339.5
167.5°	1350.4	1350.6	1350.7	1351.4	1352.6	1353.8	1354.9	1356.1	1354.9	1353.8	1352.6
170°	1357.9	1357.6	1357.5	1358.0	1359.4	1360.7	1362.2	1363.5	1362.2	1360.7	1359.4
172.5°	1362.9	1362.6	1362.4	1362.9	1364.3	1365.7	1367.1	1368.4	1367.1	1365.7	1364.3
175°	1368.2	1367.9	1367.7	1368.3	1369.7	1371.0	1372.4	1373.8	1372.4	1371.0	1369.7
177.5°	1371.4	1371.0	1370.6	1371.1	1372.4	1373.6	1375.0	1376.3	1375.0	1373.6	1372.4
180°	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8



TEST NUMBER: P332823-927

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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	28.1	29.0
92.5°	13.5	14.5	16.3	18.1	20.0	21.8	23.1	24.6	25.9	27.3	28.0
95°	25.4	21.7	21.9	22.2	22.3	22.6	24.0	25.3	26.7	28.1	28.9
97.5°	139.3	129.0	103.5	78.1	52.6	27.1	27.3	27.4	27.6	27.6	27.9
100°	185.0	171.3	139.7	108.2	76.7	45.2	41.4	37.5	33.6	29.7	27.9
102.5°	234.8	234.2	230.1	226.1	222.0	217.9	175.9	134.1	92.2	50.3	29.4
105°	314.7	316.0	317.2	318.3	319.4	320.6	322.7	324.7	326.8	328.8	325.7
107.5°	392.4	393.5	395.1	396.6	398.2	399.7	400.7	401.7	402.7	403.7	404.6
110°	446.6	447.7	449.0	450.4	451.8	453.1	453.6	454.1	454.5	455.0	455.5



TEST NUMBER: P332823-927

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	501.5	502.3	503.0	503.7	504.3	504.9	504.9	504.7	504.6	504.5	504.9
115°	580.2	580.4	580.2	580.0	579.7	579.5	580.0	580.4	580.9	581.3	581.5
117.5°	654.0	654.7	655.3	655.8	656.2	656.8	656.7	656.6	656.5	656.4	656.3
120°	703.4	703.7	703.5	703.3	703.1	702.8	703.3	703.7	704.2	704.6	704.6
122.5°	748.0	748.4	748.7	749.0	749.3	749.6	750.0	750.2	750.5	750.8	750.7
125°	815.4	815.6	815.2	814.7	814.2	813.8	814.4	815.2	815.9	816.5	817.0
127.5°	875.1	875.8	876.8	877.8	878.9	880.0	879.8	879.7	879.6	879.4	879.2
130°	915.4	915.8	916.6	917.2	917.9	918.6	918.9	919.0	919.2	919.5	919.6
132.5°	953.1	953.8	954.7	955.5	956.3	957.2	957.4	957.7	957.9	958.1	958.1
135°	1006.1	1006.4	1007.3	1008.2	1009.2	1010.0	1010.5	1011.0	1011.4	1011.9	1012.3
137.5°	1056.5	1057.0	1058.0	1059.0	1060.0	1061.0	1061.5	1062.0	1062.5	1063.0	1063.2
140°	1090.0	1090.4	1090.8	1091.3	1091.8	1092.3	1092.9	1093.6	1094.3	1095.0	1095.4
142.5°	1120.2	1120.7	1121.0	1121.3	1121.6	1121.8	1122.4	1122.8	1123.3	1123.9	1124.1
145°	1163.8	1164.2	1164.2	1164.2	1164.2	1164.2	1164.4	1164.6	1164.8	1165.1	1165.5
147.5°	1201.3	1201.9	1201.7	1201.4	1201.2	1200.9	1201.1	1201.3	1201.5	1201.7	1201.9
150°	1225.3	1225.7	1225.5	1225.3	1225.0	1224.8	1224.8	1224.8	1224.8	1224.8	1224.9
152.5°	1246.0	1246.2	1245.8	1245.3	1244.9	1244.5	1244.9	1245.2	1245.6	1245.9	1246.1
155°	1274.0	1273.7	1273.1	1272.4	1271.7	1271.1	1271.9	1272.9	1273.7	1274.7	1274.8
157.5°	1297.8	1297.4	1296.6	1295.8	1295.1	1294.3	1295.5	1296.6	1297.8	1299.0	1299.0
160°	1310.4	1310.0	1309.7	1309.5	1309.2	1309.1	1310.4	1311.8	1313.1	1314.5	1314.5
162.5°	1322.9	1322.3	1322.1	1321.8	1321.6	1321.4	1322.7	1324.1	1325.5	1326.8	1326.7
165°	1338.4	1337.8	1337.8	1337.8	1337.8	1337.8	1339.7	1341.5	1343.3	1345.1	1345.0
167.5°	1351.4	1350.7	1350.6	1350.4	1350.3	1350.1	1352.2	1354.2	1356.1	1358.2	1358.0
170°	1358.0	1357.5	1357.6	1357.9	1358.1	1358.4	1360.2	1362.0	1363.8	1365.6	1365.4
172.5°	1362.9	1362.4	1362.6	1362.9	1363.0	1363.3	1365.1	1366.9	1368.8	1370.6	1370.3
175°	1368.3	1367.7	1367.9	1368.2	1368.4	1368.7	1370.7	1372.8	1374.8	1376.9	1376.5
177.5°	1371.1	1370.6	1371.0	1371.4	1371.7	1372.1	1373.6	1375.1	1376.5	1378.0	1377.6
180°	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8



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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	28.1	26.7	25.3
92.5°	28.1	28.2	28.3	28.4	28.3	28.2	28.1	28.0	27.3	25.9	24.6
95°	29.1	29.3	29.5	29.8	29.5	29.3	29.1	28.9	28.1	26.7	25.3
97.5°	28.1	28.3	28.5	28.8	28.5	28.3	28.1	27.9	27.6	27.6	27.4
100°	28.1	28.3	28.5	28.8	28.5	28.3	28.1	27.9	29.7	33.6	37.5
102.5°	29.5	29.5	29.5	29.6	29.5	29.5	29.5	29.4	50.3	92.2	134.1
105°	317.5	309.3	301.0	292.9	301.0	309.3	317.5	325.7	328.8	326.8	324.7
107.5°	405.5	406.4	407.3	408.1	407.3	406.4	405.5	404.6	403.7	402.7	401.7
110°	456.2	456.9	457.6	458.3	457.6	456.9	456.2	455.5	455.0	454.5	454.1



TEST NUMBER: P332823-927

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	505.8	506.7	507.6	508.4	507.6	506.7	505.8	504.9	504.5	504.6	504.7
115°	581.5	581.5	581.5	581.5	581.5	581.5	581.5	581.5	581.3	580.9	580.4
117.5°	656.2	656.2	656.1	655.9	656.1	656.2	656.2	656.3	656.4	656.5	656.6
120°	704.2	703.7	703.3	702.8	703.3	703.7	704.2	704.6	704.6	704.2	703.7
122.5°	750.2	749.7	749.3	748.8	749.3	749.7	750.2	750.7	750.8	750.5	750.2
125°	817.2	817.5	817.7	817.9	817.7	817.5	817.2	817.0	816.5	815.9	815.2
127.5°	879.1	878.8	878.7	878.5	878.7	878.8	879.1	879.2	879.4	879.6	879.7
130°	919.6	919.6	919.6	919.6	919.6	919.6	919.6	919.6	919.5	919.2	919.0
132.5°	958.0	957.8	957.6	957.4	957.6	957.8	958.0	958.1	958.1	957.9	957.7
135°	1012.8	1013.2	1013.7	1014.2	1013.7	1013.2	1012.8	1012.3	1011.9	1011.4	1011.0
137.5°	1063.0	1063.0	1062.8	1062.6	1062.8	1063.0	1063.0	1063.2	1063.0	1062.5	1062.0
140°	1095.7	1095.9	1096.1	1096.4	1096.1	1095.9	1095.7	1095.4	1095.0	1094.3	1093.6
142.5°	1124.2	1124.2	1124.3	1124.3	1124.3	1124.2	1124.2	1124.1	1123.9	1123.3	1122.8
145°	1165.9	1166.3	1166.8	1167.3	1166.8	1166.3	1165.9	1165.5	1165.1	1164.8	1164.6
147.5°	1202.1	1202.4	1202.5	1202.8	1202.5	1202.4	1202.1	1201.9	1201.7	1201.5	1201.3
150°	1225.1	1225.3	1225.6	1225.8	1225.6	1225.3	1225.1	1224.9	1224.8	1224.8	1224.8
152.5°	1245.9	1245.8	1245.7	1245.5	1245.7	1245.8	1245.9	1246.1	1245.9	1245.6	1245.2
155°	1274.1	1273.4	1272.7	1272.1	1272.7	1273.4	1274.1	1274.8	1274.7	1273.7	1272.9
157.5°	1297.8	1296.6	1295.5	1294.3	1295.5	1296.6	1297.8	1299.0	1299.0	1297.8	1296.6
160°	1313.1	1311.8	1310.4	1309.1	1310.4	1311.8	1313.1	1314.5	1314.5	1313.1	1311.8
162.5°	1325.2	1323.7	1322.1	1320.6	1322.1	1323.7	1325.2	1326.7	1326.8	1325.5	1324.1
165°	1343.0	1340.9	1338.9	1336.8	1338.9	1340.9	1343.0	1345.0	1345.1	1343.3	1341.5
167.5°	1355.7	1353.4	1351.2	1348.9	1351.2	1353.4	1355.7	1358.0	1358.2	1356.1	1354.2
170°	1363.2	1360.9	1358.6	1356.3	1358.6	1360.9	1363.2	1365.4	1365.6	1363.8	1362.0
172.5°	1367.8	1365.3	1362.9	1360.4	1362.9	1365.3	1367.8	1370.3	1370.6	1368.8	1366.9
175°	1373.8	1371.0	1368.3	1365.6	1368.3	1371.0	1373.8	1376.5	1376.9	1374.8	1372.8
177.5°	1375.4	1373.2	1371.0	1368.8	1371.0	1373.2	1375.4	1377.6	1378.0	1376.5	1375.1
180°	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8



TEST NUMBER: P332823-927

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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°	23.1	21.8	20.0	18.1	16.3	14.5	13.5	13.4	13.2	13.1	12.9
95°	24.0	22.6	22.3	22.2	21.9	21.7	25.4	33.2	41.0	48.7	56.5
97.5°	27.3	27.1	52.6	78.1	103.5	129.0	139.3	134.5	129.7	124.8	120.0
100°	41.4	45.2	76.7	108.2	139.7	171.3	185.0	180.9	176.7	172.6	168.5
102.5°	175.9	217.9	222.0	226.1	230.1	234.2	234.8	231.8	228.8	225.8	222.8
105°	322.7	320.6	319.4	318.3	317.2	316.0	314.7	313.4	312.0	310.6	309.3
107.5°	400.7	399.7	398.2	396.6	395.1	393.5	392.4	391.7	391.0	390.3	389.6
110°	453.6	453.1	451.8	450.4	449.0	447.7	446.6	445.9	445.3	444.6	443.9



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	504.9	504.9	504.3	503.7	503.0	502.3	501.5	500.2	499.0	497.7	496.5
115°	580.0	579.5	579.7	580.0	580.2	580.4	580.2	579.5	578.8	578.1	577.4
117.5°	656.7	656.8	656.2	655.8	655.3	654.7	654.0	653.2	652.2	651.3	650.4
120°	703.3	702.8	703.1	703.3	703.5	703.7	703.4	702.5	701.6	700.6	699.7
122.5°	750.0	749.6	749.3	749.0	748.7	748.4	748.0	747.4	746.9	746.3	745.8
125°	814.4	813.8	814.2	814.7	815.2	815.6	815.4	814.4	813.6	812.6	811.7
127.5°	879.8	880.0	878.9	877.8	876.8	875.8	875.1	874.9	874.6	874.4	874.2
130°	918.9	918.6	917.9	917.2	916.6	915.8	915.4	915.1	915.0	914.7	914.5
132.5°	957.4	957.2	956.3	955.5	954.7	953.8	953.1	952.7	952.3	951.9	951.5
135°	1010.5	1010.0	1009.2	1008.2	1007.3	1006.4	1006.1	1006.3	1006.5	1006.7	1006.9
137.5°	1061.5	1061.0	1060.0	1059.0	1058.0	1057.0	1056.5	1056.4	1056.2	1056.1	1056.1
140°	1092.9	1092.3	1091.8	1091.3	1090.8	1090.4	1090.0	1089.5	1089.0	1088.6	1088.1
142.5°	1122.4	1121.8	1121.6	1121.3	1121.0	1120.7	1120.2	1119.4	1118.6	1117.7	1116.9
145°	1164.4	1164.2	1164.2	1164.2	1164.2	1164.2	1163.8	1163.2	1162.4	1161.7	1161.1
147.5°	1201.1	1200.9	1201.2	1201.4	1201.7	1201.9	1201.3	1200.1	1198.8	1197.5	1196.2
150°	1224.8	1224.8	1225.0	1225.3	1225.5	1225.7	1225.3	1224.5	1223.5	1222.7	1221.7
152.5°	1244.9	1244.5	1244.9	1245.3	1245.8	1246.2	1246.0	1245.2	1244.5	1243.8	1243.1
155°	1271.9	1271.1	1271.7	1272.4	1273.1	1273.7	1274.0	1273.7	1273.5	1273.3	1273.1
157.5°	1295.5	1294.3	1295.1	1295.8	1296.6	1297.4	1297.8	1297.9	1298.1	1298.2	1298.4
160°	1310.4	1309.1	1309.2	1309.5	1309.7	1310.0	1310.4	1311.1	1311.8	1312.5	1313.1
162.5°	1322.7	1321.4	1321.6	1321.8	1322.1	1322.3	1322.9	1323.7	1324.6	1325.4	1326.3
165°	1339.7	1337.8	1337.8	1337.8	1337.8	1337.8	1338.4	1339.5	1340.7	1341.8	1343.0
167.5°	1352.2	1350.1	1350.3	1350.4	1350.6	1350.7	1351.4	1352.6	1353.8	1354.9	1356.1
170°	1360.2	1358.4	1358.1	1357.9	1357.6	1357.5	1358.0	1359.4	1360.7	1362.2	1363.5
172.5°	1365.1	1363.3	1363.0	1362.9	1362.6	1362.4	1362.9	1364.3	1365.7	1367.1	1368.4
175°	1370.7	1368.7	1368.4	1368.2	1367.9	1367.7	1368.3	1369.7	1371.0	1372.4	1373.8
177.5°	1373.6	1372.1	1371.7	1371.4	1371.0	1370.6	1371.1	1372.4	1373.6	1375.0	1376.3
180°	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8



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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°	13.1	13.2	13.4	13.5	14.5	16.3	18.1	20.0	21.8	23.1	24.6
95°	48.7	41.0	33.2	25.4	21.7	21.9	22.2	22.3	22.6	24.0	25.3
97.5°	124.8	129.7	134.5	139.3	129.0	103.5	78.1	52.6	27.1	27.3	27.4
100°	172.6	176.7	180.9	185.0	171.3	139.7	108.2	76.7	45.2	41.4	37.5
102.5°	225.8	228.8	231.8	234.8	234.2	230.1	226.1	222.0	217.9	175.9	134.1
105°	310.6	312.0	313.4	314.7	316.0	317.2	318.3	319.4	320.6	322.7	324.7
107.5°	390.3	391.0	391.7	392.4	393.5	395.1	396.6	398.2	399.7	400.7	401.7
110°	444.6	445.3	445.9	446.6	447.7	449.0	450.4	451.8	453.1	453.6	454.1





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	497.7	499.0	500.2	501.5	502.3	503.0	503.7	504.3	504.9	504.9	504.7
115°	578.1	578.8	579.5	580.2	580.4	580.2	580.0	579.7	579.5	580.0	580.4
117.5°	651.3	652.2	653.2	654.0	654.7	655.3	655.8	656.2	656.8	656.7	656.6
120°	700.6	701.6	702.5	703.4	703.7	703.5	703.3	703.1	702.8	703.3	703.7
122.5°	746.3	746.9	747.4	748.0	748.4	748.7	749.0	749.3	749.6	750.0	750.2
125°	812.6	813.6	814.4	815.4	815.6	815.2	814.7	814.2	813.8	814.4	815.2
127.5°	874.4	874.6	874.9	875.1	875.8	876.8	877.8	878.9	880.0	879.8	879.7
130°	914.7	915.0	915.1	915.4	915.8	916.6	917.2	917.9	918.6	918.9	919.0
132.5°	951.9	952.3	952.7	953.1	953.8	954.7	955.5	956.3	957.2	957.4	957.7
135°	1006.7	1006.5	1006.3	1006.1	1006.4	1007.3	1008.2	1009.2	1010.0	1010.5	1011.0
137.5°	1056.1	1056.2	1056.4	1056.5	1057.0	1058.0	1059.0	1060.0	1061.0	1061.5	1062.0
140°	1088.6	1089.0	1089.5	1090.0	1090.4	1090.8	1091.3	1091.8	1092.3	1092.9	1093.6
142.5°	1117.7	1118.6	1119.4	1120.2	1120.7	1121.0	1121.3	1121.6	1121.8	1122.4	1122.8
145°	1161.7	1162.4	1163.2	1163.8	1164.2	1164.2	1164.2	1164.2	1164.2	1164.4	1164.6
147.5°	1197.5	1198.8	1200.1	1201.3	1201.9	1201.7	1201.4	1201.2	1200.9	1201.1	1201.3
150°	1222.7	1223.5	1224.5	1225.3	1225.7	1225.5	1225.3	1225.0	1224.8	1224.8	1224.8
152.5°	1243.8	1244.5	1245.2	1246.0	1246.2	1245.8	1245.3	1244.9	1244.5	1244.9	1245.2
155°	1273.3	1273.5	1273.7	1274.0	1273.7	1273.1	1272.4	1271.7	1271.1	1271.9	1272.9
157.5°	1298.2	1298.1	1297.9	1297.8	1297.4	1296.6	1295.8	1295.1	1294.3	1295.5	1296.6
160°	1312.5	1311.8	1311.1	1310.4	1310.0	1309.7	1309.5	1309.2	1309.1	1310.4	1311.8
162.5°	1325.4	1324.6	1323.7	1322.9	1322.3	1322.1	1321.8	1321.6	1321.4	1322.7	1324.1
165°	1341.8	1340.7	1339.5	1338.4	1337.8	1337.8	1337.8	1337.8	1337.8	1339.7	1341.5
167.5°	1354.9	1353.8	1352.6	1351.4	1350.7	1350.6	1350.4	1350.3	1350.1	1352.2	1354.2
170°	1362.2	1360.7	1359.4	1358.0	1357.5	1357.6	1357.9	1358.1	1358.4	1360.2	1362.0
172.5°	1367.1	1365.7	1364.3	1362.9	1362.4	1362.6	1362.9	1363.0	1363.3	1365.1	1366.9
175°	1372.4	1371.0	1369.7	1368.3	1367.7	1367.9	1368.2	1368.4	1368.7	1370.7	1372.8
177.5°	1375.0	1373.6	1372.4	1371.1	1370.6	1371.0	1371.4	1371.7	1372.1	1373.6	1375.1
180°	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8



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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	28.1	29.0	29.5	29.9	30.3	30.8
92.5°	25.9	27.3	28.0	28.1	28.2	28.3	28.4
95°	26.7	28.1	28.9	29.1	29.3	29.5	29.8
97.5°	27.6	27.6	27.9	28.1	28.3	28.5	28.8
100°	33.6	29.7	27.9	28.1	28.3	28.5	28.8
102.5°	92.2	50.3	29.4	29.5	29.5	29.5	29.6
105°	326.8	328.8	325.7	317.5	309.3	301.0	292.9
107.5°	402.7	403.7	404.6	405.5	406.4	407.3	408.1
110°	454.5	455.0	455.5	456.2	456.9	457.6	458.3



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	504.6	504.5	504.9	505.8	506.7	507.6	508.4
115°	580.9	581.3	581.5	581.5	581.5	581.5	581.5
117.5°	656.5	656.4	656.3	656.2	656.2	656.1	655.9
120°	704.2	704.6	704.6	704.2	703.7	703.3	702.8
122.5°	750.5	750.8	750.7	750.2	749.7	749.3	748.8
125°	815.9	816.5	817.0	817.2	817.5	817.7	817.9
127.5°	879.6	879.4	879.2	879.1	878.8	878.7	878.5
130°	919.2	919.5	919.6	919.6	919.6	919.6	919.6
132.5°	957.9	958.1	958.1	958.0	957.8	957.6	957.4
135°	1011.4	1011.9	1012.3	1012.8	1013.2	1013.7	1014.2
137.5°	1062.5	1063.0	1063.2	1063.0	1063.0	1062.8	1062.6
140°	1094.3	1095.0	1095.4	1095.7	1095.9	1096.1	1096.4
142.5°	1123.3	1123.9	1124.1	1124.2	1124.2	1124.3	1124.3
145°	1164.8	1165.1	1165.5	1165.9	1166.3	1166.8	1167.3
147.5°	1201.5	1201.7	1201.9	1202.1	1202.4	1202.5	1202.8
150°	1224.8	1224.8	1224.9	1225.1	1225.3	1225.6	1225.8
152.5°	1245.6	1245.9	1246.1	1245.9	1245.8	1245.7	1245.5
155°	1273.7	1274.7	1274.8	1274.1	1273.4	1272.7	1272.1
157.5°	1297.8	1299.0	1299.0	1297.8	1296.6	1295.5	1294.3
160°	1313.1	1314.5	1314.5	1313.1	1311.8	1310.4	1309.1
162.5°	1325.5	1326.8	1326.7	1325.2	1323.7	1322.1	1320.6
165°	1343.3	1345.1	1345.0	1343.0	1340.9	1338.9	1336.8
167.5°	1356.1	1358.2	1358.0	1355.7	1353.4	1351.2	1348.9
170°	1363.8	1365.6	1365.4	1363.2	1360.9	1358.6	1356.3
172.5°	1368.8	1370.6	1370.3	1367.8	1365.3	1362.9	1360.4
175°	1374.8	1376.9	1376.5	1373.8	1371.0	1368.3	1365.6
177.5°	1376.5	1378.0	1377.6	1375.4	1373.2	1371.0	1368.8
180°	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8

(END OF REPORT)