

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: P332198-930

Luminaire Tested: **S123DIW-S1000D1320U930-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332198-930  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123DIW-S1000D1320U930-4F0-1E-UDD-A  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1320 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7763.2 lumens  
Efficiency: N/A  
Efficacy: 111.2 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: General Diffuse

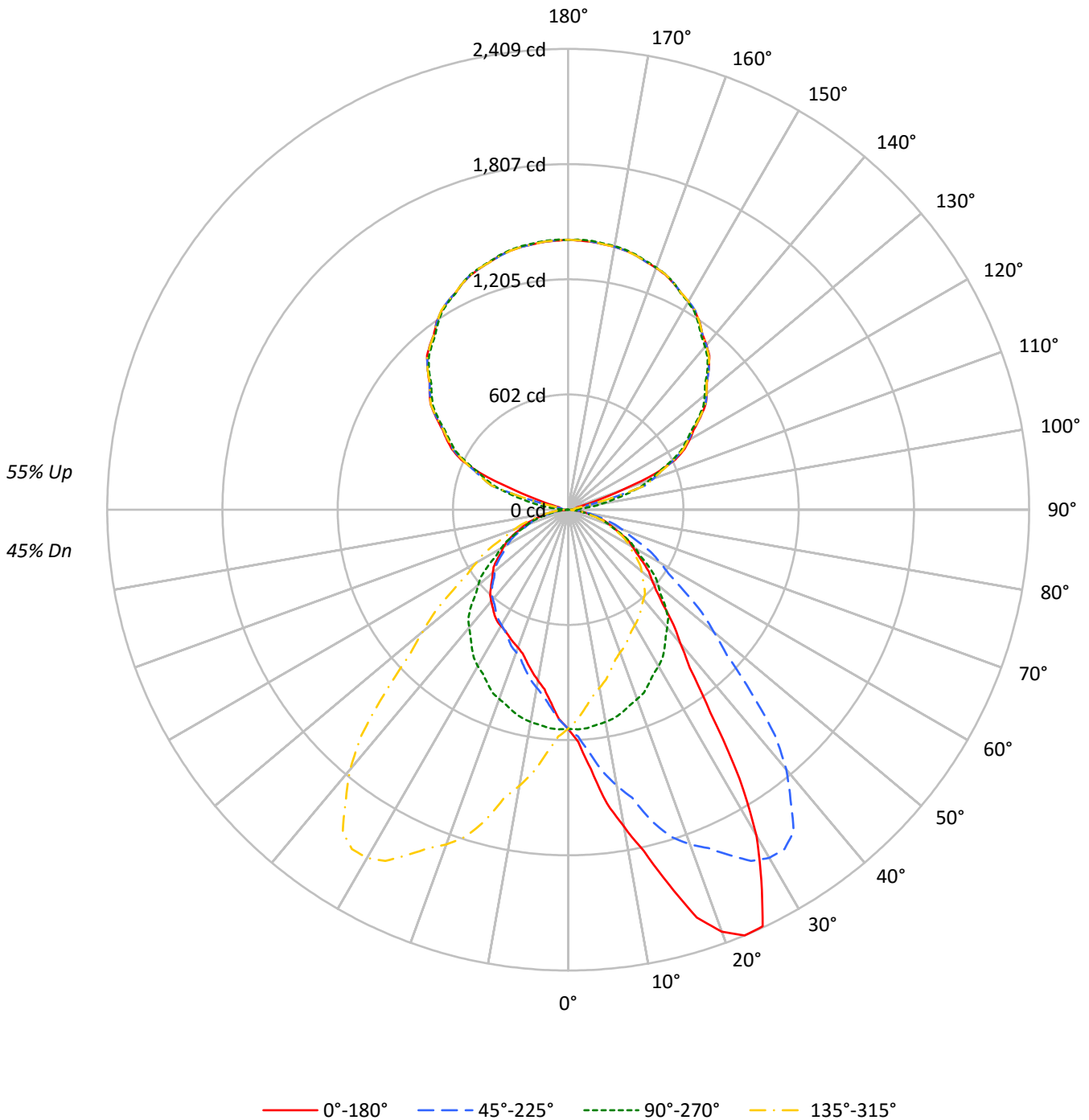
Input Watts (W): 69.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	97	97	97	97	80	80	80	65	65	65	51	51	51	45				
1	97	93	89	85	89	85	82	79	71	68	66	58	56	55	46	45	44	38				
2	88	81	75	70	81	75	69	65	62	59	55	51	48	46	40	39	37	32				
3	81	71	64	59	74	66	60	55	55	50	47	45	42	39	36	34	32	28				
4	74	63	56	50	67	58	52	46	49	44	40	40	37	34	32	30	28	24				
5	68	56	49	43	62	52	45	40	44	39	35	36	32	29	29	26	24	21				
6	62	51	43	37	57	47	40	35	40	34	30	33	29	26	26	24	21	18				
7	58	46	38	32	53	42	35	30	36	30	27	30	26	23	24	21	19	16				
8	54	41	34	29	49	38	32	27	33	27	24	27	23	20	22	19	17	15				
9	50	38	30	25	46	35	29	24	30	25	21	25	21	18	20	17	15	13				
10	47	35	28	23	43	32	26	22	28	22	19	23	19	16	19	16	14	12				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	12326	12326	12326	12326
5°	14699	12379	10970	12379
10°	18398	12316	9908	12316
15°	22566	12217	9225	12217
20°	26882	12062	8782	12062
25°	28544	11873	8684	11873
30°	24467	11737	8730	11737
35°	17015	11540	8821	11540
40°	12816	11311	8793	11311
45°	10641	10971	8681	10971
50°	9532	10275	8602	10275
55°	8912	9526	8496	9526
60°	8359	8742	8409	8742
65°	7857	7969	8140	7969
70°	7371	7091	7751	7091
75°	6600	6209	7107	6209
80°	5777	5089	6118	5089
85°	4520	3693	4113	3693



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.8	1.5
10°-20°	361.7	4.7
20°-30°	607.1	7.8
30°-40°	687.4	8.9
40°-50°	616.4	7.9
50°-60°	497.4	6.4
60°-70°	346.6	4.5
70°-80°	182.2	2.3
80°-90°	48.5	0.6
90°-100°	51.3	0.7
100°-110°	244.5	3.1
110°-120°	587.3	7.6
120°-130°	747.9	9.6
130°-140°	799.1	10.3
140°-150°	747.2	9.6
150°-160°	602.7	7.8
160°-170°	389.0	5.0
170°-180°	134.1	1.7
0°-30°	1081.6	13.9
0°-40°	1768.9	22.8
0°-60°	2882.8	37.1
0°-90°	3460.1	44.6
90°-120°	883.1	11.4
90°-150°	3177.3	40.9
90°-180°	4303.0	55.4
0°-180°	7763.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1145	1145	1145	1145	1145	
5°	1360	1146	1015	1146	1360	141
15°	2025	1096	828	1096	2025	585
25°	2403	1000	731	1000	2403	1054
35°	1295	878	671	878	1295	841
45°	699	721	570	721	699	553
55°	475	508	453	508	475	426
65°	308	313	320	313	308	307
75°	159	149	171	149	159	170
85°	37	30	33	30	37	44
90°	32	1	32	1	32	16
95°	40	64	40	64	40	33
105°	46	312	46	312	46	105
115°	616	586	616	586	616	570
125°	843	826	843	826	843	753
135°	1039	1028	1039	1028	1039	801
145°	1198	1187	1198	1187	1198	748
155°	1305	1307	1305	1307	1305	602
165°	1375	1379	1375	1379	1375	388
175°	1406	1411	1406	1411	1406	134
180°	1411	1411	1411	1411	1411	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1
2.5°	1215.2	1214.4	1212.1	1213.9	1210.4	1205.5	1205.0	1200.6	1187.7	1186.8	1183.3
5°	1360.4	1355.9	1355.4	1354.9	1347.0	1336.5	1316.5	1314.9	1288.3	1275.0	1258.8
7.5°	1548.3	1550.7	1542.5	1535.5	1511.7	1496.1	1474.6	1447.2	1414.5	1381.4	1359.3
10°	1683.3	1701.6	1678.9	1663.3	1648.9	1621.7	1590.1	1550.7	1511.3	1465.3	1430.3
12.5°	1828.0	1837.0	1832.4	1817.8	1795.4	1754.0	1697.9	1654.6	1618.3	1541.6	1510.6
15°	2025.0	2058.9	2037.3	1987.3	1988.4	1949.1	1875.8	1795.4	1752.6	1685.5	1594.0
17.5°	2235.0	2239.2	2230.0	2188.3	2160.6	2106.5	2038.9	1961.8	1875.3	1794.0	1697.0
20°	2346.8	2343.5	2324.1	2302.4	2254.7	2212.6	2138.8	2052.8	1941.8	1861.9	1756.0
22.5°	2409.0	2403.4	2394.2	2376.1	2336.4	2291.2	2224.9	2130.9	2025.3	1915.2	1792.8
25°	2403.4	2410.6	2411.7	2406.8	2392.9	2365.7	2313.5	2238.6	2133.2	1991.8	1864.2
27.5°	2185.9	2196.2	2225.8	2252.1	2281.5	2311.5	2307.5	2270.3	2192.3	2070.0	1914.1
30°	1968.5	1946.3	2001.2	2070.5	2117.7	2200.9	2247.5	2250.3	2206.4	2101.6	1949.5
32.5°	1666.6	1691.0	1715.3	1800.7	1903.7	1997.2	2089.9	2164.6	2173.2	2103.4	1970.4
35°	1294.9	1325.4	1369.8	1414.2	1525.2	1620.6	1783.7	1925.7	2038.9	2053.9	1972.3
37.5°	1043.5	1058.6	1086.6	1131.1	1203.7	1316.9	1443.1	1622.6	1786.6	1908.5	1913.8
40°	912.1	916.6	948.2	982.0	1040.8	1134.0	1247.7	1406.4	1602.8	1773.2	1844.2
42.5°	813.6	823.3	836.7	869.3	916.1	986.2	1091.9	1223.1	1403.1	1599.1	1738.1
45°	699.0	710.1	718.4	740.1	773.4	820.5	894.4	1014.2	1151.2	1353.7	1540.7
47.5°	623.4	624.3	630.5	646.8	669.4	704.8	757.0	834.0	959.8	1124.1	1316.0
50°	569.2	578.1	580.3	593.0	610.8	636.9	680.2	745.7	848.9	993.1	1169.5
52.5°	531.1	533.7	540.0	549.2	564.7	585.0	622.5	673.8	754.7	877.7	1039.9
55°	474.9	474.9	481.0	488.2	497.1	515.4	540.4	578.1	639.7	735.2	869.4
57.5°	423.0	425.7	430.1	432.3	439.9	451.9	472.8	501.4	547.4	620.9	727.6
60°	388.3	393.4	392.8	397.2	403.9	413.4	431.0	454.4	495.5	554.2	644.2
62.5°	358.2	357.8	357.8	363.1	369.7	378.7	390.3	410.4	445.3	497.4	574.0
65°	308.5	307.4	311.3	314.5	316.8	323.4	332.3	350.1	373.4	412.2	471.6
67.5°	264.3	261.1	263.2	264.3	268.1	273.3	281.6	292.6	311.1	342.3	387.0
70°	234.2	231.4	230.8	231.9	235.2	239.1	245.2	255.8	273.0	297.9	330.7
72.5°	203.1	201.1	201.1	203.5	205.0	207.6	211.9	221.6	235.2	254.0	284.5
75°	158.7	158.7	158.7	159.2	160.9	163.1	166.4	171.5	182.0	195.3	215.8
77.5°	119.0	118.9	118.1	118.1	120.5	121.5	122.3	126.9	132.8	141.8	156.8
80°	93.2	90.4	91.6	93.2	94.3	94.9	96.5	97.7	102.6	107.6	118.1
82.5°	69.2	66.9	67.1	69.7	69.9	70.4	72.2	73.7	75.6	80.1	85.8
85°	36.6	36.6	37.2	37.2	37.7	37.2	38.8	39.4	39.4	42.2	45.5
87.5°	19.6	18.6	19.0	19.3	18.8	19.1	19.3	19.6	19.9	20.1	20.0
90°	31.5	31.0	30.5	30.1	29.6	28.9	28.0	27.0	26.1	25.2	22.1
92.5°	34.8	34.5	34.2	34.0	33.7	32.8	31.3	29.8	28.3	26.8	24.5
95°	39.9	39.9	39.9	39.9	39.9	39.1	37.4	35.8	34.2	32.5	29.9
97.5°	43.2	43.0	42.7	42.5	42.2	41.2	39.4	37.5	35.6	33.8	50.5
100°	44.0	43.8	43.5	43.3	43.1	42.1	40.2	38.3	36.4	34.6	70.9
102.5°	44.8	44.4	44.0	43.6	43.2	45.9	51.6	57.4	63.2	69.0	108.7
105°	46.1	45.7	45.2	44.8	44.3	64.7	105.9	147.1	188.3	229.6	250.5
107.5°	144.9	175.9	207.0	238.1	269.2	299.9	330.1	360.4	390.5	420.8	417.5
110°	288.3	321.6	354.9	388.2	421.5	442.1	449.7	457.4	465.1	472.8	470.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	494.6	501.7	508.7	515.7	522.8	526.2	526.0	525.9	525.8	525.6	523.1
115°	616.4	615.5	614.6	613.6	612.7	611.1	608.7	606.4	604.1	601.8	599.7
117.5°	684.8	684.6	684.4	684.2	684.0	683.0	681.1	679.3	677.4	675.6	674.5
120°	731.7	731.7	731.7	731.7	731.7	730.8	729.0	727.1	725.2	723.3	722.7
122.5°	777.9	777.7	777.5	777.3	777.1	776.4	775.1	773.8	772.5	771.2	770.3
125°	842.9	842.4	842.0	841.5	841.0	840.5	840.1	839.6	839.1	838.7	837.7
127.5°	905.3	905.8	906.3	906.8	907.2	907.1	906.3	905.6	904.8	904.1	902.9
130°	945.6	946.1	946.6	947.0	947.5	947.2	946.3	945.3	944.4	943.5	942.6
132.5°	982.5	983.2	983.8	984.5	985.1	985.0	984.1	983.1	982.2	981.2	980.5
135°	1038.9	1039.6	1040.3	1041.0	1041.7	1041.7	1041.0	1040.3	1039.6	1038.9	1038.0
137.5°	1091.9	1092.4	1092.9	1093.3	1093.8	1093.5	1092.3	1091.3	1090.1	1089.0	1088.5
140°	1123.8	1124.3	1124.7	1125.2	1125.7	1125.4	1124.5	1123.6	1122.7	1121.7	1121.0
142.5°	1153.2	1153.8	1154.5	1155.1	1155.8	1155.8	1155.0	1154.2	1153.5	1152.8	1152.0
145°	1198.2	1198.2	1198.2	1198.2	1198.2	1198.0	1197.5	1197.1	1196.6	1196.1	1195.7
147.5°	1231.8	1232.9	1234.0	1235.0	1236.1	1236.4	1235.9	1235.4	1235.0	1234.5	1234.0
150°	1256.9	1257.7	1258.3	1259.1	1259.7	1259.9	1259.4	1258.9	1258.5	1258.0	1257.5
152.5°	1277.1	1278.1	1279.2	1280.3	1281.4	1281.5	1280.7	1279.8	1279.0	1278.1	1277.8
155°	1305.2	1306.6	1308.0	1309.4	1310.8	1310.9	1309.7	1308.6	1307.4	1306.2	1306.0
157.5°	1328.9	1330.6	1332.5	1334.3	1336.1	1336.4	1335.0	1333.6	1332.1	1330.7	1331.0
160°	1343.9	1345.6	1347.2	1348.8	1350.5	1350.6	1349.2	1347.8	1346.4	1345.0	1345.2
162.5°	1358.2	1359.7	1361.1	1362.5	1364.0	1363.9	1362.4	1360.7	1359.2	1357.6	1357.8
165°	1375.4	1377.0	1378.7	1380.3	1381.9	1381.9	1380.0	1378.1	1376.2	1374.4	1374.6
167.5°	1387.8	1389.7	1391.6	1393.3	1395.2	1395.2	1393.3	1391.6	1389.7	1387.8	1387.8
170°	1395.3	1397.2	1399.1	1400.9	1402.8	1402.8	1400.9	1399.1	1397.2	1395.3	1395.3
172.5°	1399.5	1401.6	1403.6	1405.7	1407.7	1407.9	1406.0	1404.1	1402.2	1400.4	1400.2
175°	1405.8	1407.7	1409.6	1411.4	1413.2	1413.4	1411.8	1410.1	1408.5	1406.9	1406.6
177.5°	1407.7	1409.6	1411.4	1413.3	1415.2	1415.4	1413.9	1412.3	1410.9	1409.4	1409.2
180°	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1
2.5°	1180.6	1177.0	1173.5	1167.3	1162.0	1154.5	1152.2	1149.6	1141.6	1134.5	1129.1
5°	1252.7	1239.4	1220.0	1202.2	1187.8	1168.4	1157.3	1145.7	1129.0	1114.0	1101.9
7.5°	1328.2	1302.0	1271.9	1239.2	1208.8	1179.5	1155.8	1134.8	1111.5	1089.4	1072.2
10°	1388.1	1350.4	1308.2	1262.7	1223.9	1186.2	1154.5	1126.8	1096.8	1070.7	1049.1
12.5°	1456.5	1400.5	1342.4	1287.1	1241.2	1188.9	1150.6	1115.2	1081.3	1049.9	1025.6
15°	1537.3	1466.3	1397.6	1321.5	1251.6	1186.2	1140.7	1096.3	1056.9	1024.7	993.7
17.5°	1611.0	1530.6	1439.9	1347.5	1263.1	1185.5	1121.9	1071.6	1022.4	983.0	952.0
20°	1652.8	1561.2	1458.6	1362.6	1269.4	1182.8	1113.0	1053.0	999.7	958.1	923.2
22.5°	1688.7	1581.6	1475.4	1372.8	1268.9	1175.7	1096.5	1034.9	977.1	936.4	899.2
25°	1726.0	1597.8	1491.3	1370.9	1255.0	1158.5	1069.7	999.7	942.1	894.4	856.1
27.5°	1757.9	1596.8	1470.3	1340.8	1233.0	1136.2	1041.5	966.5	905.2	853.4	814.6
30°	1779.2	1599.0	1448.6	1320.5	1211.7	1111.8	1019.7	944.3	880.0	827.2	790.6
32.5°	1792.6	1597.6	1428.6	1292.0	1177.9	1089.6	996.2	918.1	852.0	800.1	764.8
35°	1800.3	1587.9	1394.2	1233.3	1123.5	1037.5	959.3	878.2	808.9	760.7	720.7
37.5°	1784.8	1567.3	1354.3	1176.7	1056.5	971.8	906.0	837.0	770.6	717.5	683.1
40°	1760.4	1554.0	1323.2	1136.8	1010.3	928.7	872.7	805.0	739.6	689.1	656.9
42.5°	1713.8	1526.9	1289.1	1092.4	962.4	880.8	829.2	772.7	710.7	663.3	631.1
45°	1600.0	1468.0	1237.8	1025.8	891.5	807.2	761.7	720.7	664.6	618.6	590.8
47.5°	1442.3	1379.3	1163.7	955.6	817.7	736.5	689.3	656.2	615.3	578.1	551.5
50°	1332.6	1306.6	1113.5	907.7	768.4	689.1	643.6	613.6	584.2	547.1	522.6
52.5°	1206.2	1222.2	1054.9	857.9	718.3	640.3	597.5	573.6	546.9	516.4	495.1
55°	1028.1	1086.3	953.7	774.5	643.6	569.2	528.7	507.6	492.1	469.4	451.0
57.5°	861.3	935.4	844.3	688.5	570.2	506.1	467.2	444.3	434.3	422.4	408.0
60°	762.3	835.5	766.2	630.8	521.0	459.9	425.5	406.1	396.2	387.8	375.6
62.5°	674.0	748.1	689.8	572.3	472.5	416.0	386.0	367.0	359.3	355.0	344.5
65°	552.6	616.4	577.6	481.0	403.3	353.4	326.2	312.9	305.7	304.0	297.3
67.5°	449.7	498.3	470.0	399.0	337.9	294.7	271.7	260.3	254.8	254.2	249.2
70°	382.3	427.8	406.1	341.8	289.0	255.2	235.2	225.3	221.9	221.4	218.6
72.5°	329.9	361.6	344.4	290.7	250.0	219.2	204.6	194.2	190.4	191.2	189.3
75°	244.1	268.0	258.0	220.8	188.1	168.1	155.9	149.3	145.9	147.6	145.4
77.5°	175.6	190.8	181.7	156.0	135.8	121.4	112.4	108.3	105.3	105.2	104.2
80°	132.6	141.5	136.5	120.9	104.3	92.1	84.9	82.1	80.5	79.9	79.3
82.5°	94.4	102.0	96.1	85.4	74.1	66.8	62.7	59.0	57.8	58.1	57.6
85°	47.7	50.5	48.3	41.6	37.2	33.8	31.6	29.9	28.9	29.4	28.3
87.5°	20.2	20.1	18.2	15.8	14.5	12.7	12.2	10.8	10.4	10.9	10.9
90°	19.1	16.1	13.0	10.4	8.1	5.7	3.3	1.1	3.3	5.7	8.1
92.5°	22.3	20.0	17.7	16.9	17.5	18.2	18.8	19.5	18.8	18.2	17.5
95°	27.4	24.8	22.3	25.8	35.3	44.8	54.4	63.9	54.4	44.8	35.3
97.5°	67.3	84.1	100.9	111.4	115.7	119.9	124.3	128.5	124.3	119.9	115.7
100°	107.3	143.7	179.9	195.8	191.1	186.5	181.8	177.2	181.8	186.5	191.1
102.5°	148.4	188.1	227.8	246.0	242.6	239.2	235.9	232.5	235.9	239.2	242.6
105°	271.5	292.4	313.5	322.6	320.1	317.6	315.0	312.4	315.0	317.6	320.1
107.5°	414.2	410.9	407.6	404.9	402.8	400.8	398.8	396.7	398.8	400.8	402.8
110°	467.7	465.1	462.5	460.3	458.4	456.6	454.8	452.9	454.8	456.6	458.4





TEST NUMBER: P332198-930

CATALOG NUMBER: S123DIW-S1000D1320U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	520.5	518.0	515.4	513.2	511.6	509.9	508.3	506.5	508.3	509.9	511.6
115°	597.5	595.4	593.4	591.6	590.2	588.8	587.4	586.0	587.4	588.8	590.2
117.5°	673.4	672.3	671.2	669.8	668.1	666.4	664.7	663.0	664.7	666.4	668.1
120°	721.9	721.2	720.6	719.2	717.1	714.9	712.9	710.8	712.9	714.9	717.1
122.5°	769.4	768.5	767.6	766.3	764.6	762.9	761.2	759.5	761.2	762.9	764.6
125°	836.8	835.8	834.9	833.6	831.7	829.8	827.9	826.1	827.9	829.8	831.7
127.5°	901.9	900.7	899.6	898.1	896.3	894.4	892.5	890.6	892.5	894.4	896.3
130°	941.7	940.7	939.8	938.4	936.5	934.7	932.8	930.9	932.8	934.7	936.5
132.5°	979.7	979.0	978.3	977.0	975.1	973.2	971.3	969.5	971.3	973.2	975.1
135°	1037.1	1036.1	1035.2	1034.0	1032.6	1031.2	1029.8	1028.4	1029.8	1031.2	1032.6
137.5°	1088.0	1087.4	1087.0	1085.8	1084.0	1082.3	1080.5	1078.7	1080.5	1082.3	1084.0
140°	1120.3	1119.7	1118.9	1117.9	1116.5	1115.1	1113.7	1112.3	1113.7	1115.1	1116.5
142.5°	1151.4	1150.6	1150.0	1148.9	1147.5	1146.1	1144.7	1143.3	1144.7	1146.1	1147.5
145°	1195.2	1194.7	1194.3	1193.3	1191.6	1190.0	1188.4	1186.7	1188.4	1190.0	1191.6
147.5°	1233.5	1233.1	1232.7	1231.9	1230.8	1229.7	1228.7	1227.6	1228.7	1229.7	1230.8
150°	1257.0	1256.6	1256.1	1255.6	1254.8	1254.2	1253.4	1252.8	1253.4	1254.2	1254.8
152.5°	1277.6	1277.3	1277.0	1276.7	1276.4	1276.0	1275.7	1275.4	1275.7	1276.0	1276.4
155°	1305.8	1305.5	1305.3	1305.4	1305.9	1306.4	1306.8	1307.3	1306.8	1306.4	1305.9
157.5°	1331.2	1331.5	1331.7	1331.8	1331.9	1332.0	1332.0	1332.0	1332.0	1332.0	1331.9
160°	1345.5	1345.7	1346.0	1346.1	1346.4	1346.6	1346.9	1347.1	1346.9	1346.6	1346.4
162.5°	1358.0	1358.3	1358.5	1358.9	1359.5	1360.2	1360.7	1361.4	1360.7	1360.2	1359.5
165°	1374.8	1375.1	1375.3	1375.7	1376.5	1377.1	1377.9	1378.6	1377.9	1377.1	1376.5
167.5°	1387.8	1387.8	1387.8	1388.2	1389.2	1390.1	1391.1	1392.0	1391.1	1390.1	1389.2
170°	1395.3	1395.3	1395.3	1395.8	1396.8	1397.7	1398.6	1399.5	1398.6	1397.7	1396.8
172.5°	1400.0	1399.8	1399.6	1400.1	1401.2	1402.3	1403.5	1404.6	1403.5	1402.3	1401.2
175°	1406.4	1406.1	1405.9	1406.4	1407.5	1408.8	1409.9	1411.0	1409.9	1408.8	1407.5
177.5°	1409.0	1408.8	1408.7	1409.0	1410.0	1410.9	1411.8	1412.8	1411.8	1410.9	1410.0
180°	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0



TEST NUMBER: P332198-930

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1
2.5°	1126.0	1122.9	1118.5	1111.8	1106.5	1098.0	1098.0	1099.4	1099.4	1098.9	1098.0
5°	1091.8	1083.5	1073.6	1061.9	1049.7	1037.5	1035.3	1030.9	1027.5	1025.2	1022.5
7.5°	1055.8	1041.1	1026.5	1010.2	995.3	983.0	974.4	967.4	962.8	957.9	954.4
10°	1031.4	1013.1	995.9	978.7	959.8	944.9	935.4	928.7	923.7	919.3	917.1
12.5°	1002.5	981.5	962.6	946.2	925.6	910.2	901.2	898.1	892.3	882.9	878.0
15°	960.3	940.9	918.2	893.2	883.2	864.4	853.9	848.9	845.5	838.3	836.1
17.5°	924.3	898.9	873.3	854.8	836.2	820.9	815.0	808.8	804.4	798.5	796.7
20°	895.4	872.7	849.4	829.4	810.0	793.4	788.4	783.9	779.5	776.7	774.5
22.5°	866.2	843.4	824.1	805.4	784.7	773.8	768.4	763.5	760.4	758.6	756.3
25°	825.0	805.0	783.4	766.7	750.1	742.9	739.6	736.8	734.6	731.8	731.2
27.5°	788.1	766.4	748.9	733.4	721.4	715.3	712.2	710.8	711.3	712.2	712.9
30°	760.7	740.7	726.3	712.9	701.8	696.3	695.7	695.7	698.0	698.5	699.6
32.5°	735.3	718.9	704.5	691.6	683.2	679.4	681.5	681.5	683.3	684.8	686.7
35°	698.5	684.0	672.9	661.9	654.7	656.3	657.5	658.5	661.3	664.6	666.9
37.5°	663.3	650.8	639.3	630.6	627.3	630.2	632.9	635.3	638.5	641.0	643.3
40°	638.1	628.6	617.5	609.8	610.8	612.5	614.7	617.5	620.3	621.9	624.2
42.5°	614.5	604.6	596.2	589.8	591.3	593.5	594.8	596.2	599.4	602.4	603.7
45°	578.7	570.9	563.1	559.2	560.4	561.5	562.6	564.3	567.0	569.2	569.8
47.5°	538.3	533.0	527.7	524.0	525.7	525.3	526.8	530.3	531.2	532.5	535.6
50°	512.7	507.6	501.6	500.4	500.4	500.4	501.0	505.4	505.4	507.6	509.9
52.5°	484.2	481.0	477.1	475.2	474.3	474.3	476.5	478.8	479.7	482.8	485.0
55°	442.2	438.9	435.5	433.8	432.8	433.8	438.3	439.4	442.2	443.8	445.5
57.5°	398.4	395.8	393.1	392.2	392.0	393.5	395.9	399.3	399.9	405.0	407.6
60°	369.5	365.6	363.4	363.4	362.3	367.3	366.2	371.7	372.8	376.2	380.0
62.5°	339.7	334.5	333.6	333.6	335.3	336.6	338.2	340.6	343.6	347.7	350.7
65°	291.8	289.0	292.9	292.4	291.3	294.6	294.6	297.3	300.7	304.6	310.7
67.5°	246.5	245.0	245.3	245.3	247.0	248.9	250.5	252.9	256.9	261.0	265.0
70°	215.8	217.5	214.7	217.0	218.6	219.2	220.3	223.6	228.0	230.8	235.2
72.5°	186.1	186.0	186.3	187.2	188.8	189.9	190.9	194.8	199.6	201.9	205.5
75°	143.2	142.6	144.2	144.2	147.0	148.1	149.3	150.9	155.3	158.7	161.4
77.5°	104.5	105.2	104.8	106.7	106.0	106.2	109.7	111.3	111.8	118.3	119.8
80°	78.8	79.9	80.5	81.0	81.5	80.5	84.3	86.0	86.0	89.8	92.6
82.5°	56.6	57.2	58.7	59.3	59.4	60.5	60.8	62.0	63.3	65.1	68.6
85°	28.3	29.9	30.5	29.9	30.5	29.4	31.1	31.6	32.2	32.2	32.2
87.5°	10.9	11.9	12.1	13.1	13.3	14.3	14.5	13.9	14.0	15.6	13.9
90°	10.4	13.0	16.1	19.1	22.1	25.2	26.1	27.0	28.0	28.9	29.6
92.5°	16.9	17.7	20.0	22.3	24.5	26.8	28.3	29.8	31.3	32.8	33.7
95°	25.8	22.3	24.8	27.4	29.9	32.5	34.2	35.8	37.4	39.1	39.9
97.5°	111.4	100.9	84.1	67.3	50.5	33.8	35.6	37.5	39.4	41.2	42.2
100°	195.8	179.9	143.7	107.3	70.9	34.6	36.4	38.3	40.2	42.1	43.1
102.5°	246.0	227.8	188.1	148.4	108.7	69.0	63.2	57.4	51.6	45.9	43.2
105°	322.6	313.5	292.4	271.5	250.5	229.6	188.3	147.1	105.9	64.7	44.3
107.5°	404.9	407.6	410.9	414.2	417.5	420.8	390.5	360.4	330.1	299.9	269.2
110°	460.3	462.5	465.1	467.7	470.3	472.8	465.1	457.4	449.7	442.1	421.5



TEST NUMBER: P332198-930

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	513.2	515.4	518.0	520.5	523.1	525.6	525.8	525.9	526.0	526.2	522.8
115°	591.6	593.4	595.4	597.5	599.7	601.8	604.1	606.4	608.7	611.1	612.7
117.5°	669.8	671.2	672.3	673.4	674.5	675.6	677.4	679.3	681.1	683.0	684.0
120°	719.2	720.6	721.2	721.9	722.7	723.3	725.2	727.1	729.0	730.8	731.7
122.5°	766.3	767.6	768.5	769.4	770.3	771.2	772.5	773.8	775.1	776.4	777.1
125°	833.6	834.9	835.8	836.8	837.7	838.7	839.1	839.6	840.1	840.5	841.0
127.5°	898.1	899.6	900.7	901.9	902.9	904.1	904.8	905.6	906.3	907.1	907.2
130°	938.4	939.8	940.7	941.7	942.6	943.5	944.4	945.3	946.3	947.2	947.5
132.5°	977.0	978.3	979.0	979.7	980.5	981.2	982.2	983.1	984.1	985.0	985.1
135°	1034.0	1035.2	1036.1	1037.1	1038.0	1038.9	1039.6	1040.3	1041.0	1041.7	1041.7
137.5°	1085.8	1087.0	1087.4	1088.0	1088.5	1089.0	1090.1	1091.3	1092.3	1093.5	1093.8
140°	1117.9	1118.9	1119.7	1120.3	1121.0	1121.7	1122.7	1123.6	1124.5	1125.4	1125.7
142.5°	1148.9	1150.0	1150.6	1151.4	1152.0	1152.8	1153.5	1154.2	1155.0	1155.8	1155.8
145°	1193.3	1194.3	1194.7	1195.2	1195.7	1196.1	1196.6	1197.1	1197.5	1198.0	1198.2
147.5°	1231.9	1232.7	1233.1	1233.5	1234.0	1234.5	1235.0	1235.4	1235.9	1236.4	1236.1
150°	1255.6	1256.1	1256.6	1257.0	1257.5	1258.0	1258.5	1258.9	1259.4	1259.9	1259.7
152.5°	1276.7	1277.0	1277.3	1277.6	1277.8	1278.1	1279.0	1279.8	1280.7	1281.5	1281.4
155°	1305.4	1305.3	1305.5	1305.8	1306.0	1306.2	1307.4	1308.6	1309.7	1310.9	1310.8
157.5°	1331.8	1331.7	1331.5	1331.2	1331.0	1330.7	1332.1	1333.6	1335.0	1336.4	1336.1
160°	1346.1	1346.0	1345.7	1345.5	1345.2	1345.0	1346.4	1347.8	1349.2	1350.6	1350.5
162.5°	1358.9	1358.5	1358.3	1358.0	1357.8	1357.6	1359.2	1360.7	1362.4	1363.9	1364.0
165°	1375.7	1375.3	1375.1	1374.8	1374.6	1374.4	1376.2	1378.1	1380.0	1381.9	1381.9
167.5°	1388.2	1387.8	1387.8	1387.8	1387.8	1387.8	1389.7	1391.6	1393.3	1395.2	1395.2
170°	1395.8	1395.3	1395.3	1395.3	1395.3	1395.3	1397.2	1399.1	1400.9	1402.8	1402.8
172.5°	1400.1	1399.6	1399.8	1400.0	1400.2	1400.4	1402.2	1404.1	1406.0	1407.9	1407.7
175°	1406.4	1405.9	1406.1	1406.4	1406.6	1406.9	1408.5	1410.1	1411.8	1413.4	1413.2
177.5°	1409.0	1408.7	1408.8	1409.0	1409.2	1409.4	1410.9	1412.3	1413.9	1415.4	1415.2
180°	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0



TEST NUMBER: P332198-930

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1
2.5°	1094.9	1094.5	1097.6	1095.4	1097.6	1094.5	1094.9	1098.0	1098.9	1099.4	1099.4
5°	1019.2	1020.8	1015.3	1015.3	1015.3	1020.8	1019.2	1022.5	1025.2	1027.5	1030.9
7.5°	951.7	949.3	949.5	946.5	949.5	949.3	951.7	954.4	957.9	962.8	967.4
10°	910.4	907.1	906.0	906.5	906.0	907.1	910.4	917.1	919.3	923.7	928.7
12.5°	876.3	875.6	868.3	868.4	868.3	875.6	876.3	878.0	882.9	892.3	898.1
15°	836.1	825.6	824.4	827.8	824.4	825.6	836.1	836.1	838.3	845.5	848.9
17.5°	795.8	790.3	790.6	789.0	790.6	790.3	795.8	796.7	798.5	804.4	808.8
20°	774.5	771.2	770.6	766.7	770.6	771.2	774.5	774.5	776.7	779.5	783.9
22.5°	755.0	753.9	754.2	749.9	754.2	753.9	755.0	756.3	758.6	760.4	763.5
25°	730.7	733.4	731.2	731.2	731.2	733.4	730.7	731.2	731.8	734.6	736.8
27.5°	714.3	714.1	713.1	713.1	713.1	714.1	714.3	712.9	712.2	711.3	710.8
30°	701.8	701.2	702.4	702.4	702.4	701.2	701.8	699.6	698.5	698.0	695.7
32.5°	689.4	690.2	690.4	690.8	690.4	690.2	689.4	686.7	684.8	683.3	681.5
35°	670.2	670.7	672.5	671.3	672.5	670.7	670.2	666.9	664.6	661.3	658.5
37.5°	644.2	646.8	646.2	647.1	646.2	646.8	644.2	643.3	641.0	638.5	635.3
40°	624.7	626.4	625.8	625.8	625.8	626.4	624.7	624.2	621.9	620.3	617.5
42.5°	604.7	605.9	604.5	603.6	604.5	605.9	604.7	603.7	602.4	599.4	596.2
45°	572.0	570.9	572.6	570.3	572.6	570.9	572.0	569.8	569.2	567.0	564.3
47.5°	535.4	536.5	537.0	538.6	537.0	536.5	535.4	535.6	532.5	531.2	530.3
50°	510.9	514.3	514.3	513.7	514.3	514.3	510.9	509.9	507.6	505.4	505.4
52.5°	487.0	488.5	490.8	490.6	490.8	488.5	487.0	485.0	482.8	479.7	478.8
55°	450.0	451.0	452.2	452.7	452.2	451.0	450.0	445.5	443.8	442.2	439.4
57.5°	411.6	411.1	413.8	414.6	413.8	411.1	411.6	407.6	405.0	399.9	399.3
60°	384.5	384.5	388.9	390.6	388.9	384.5	384.5	380.0	376.2	372.8	371.7
62.5°	355.6	357.4	361.8	359.5	361.8	357.4	355.6	350.7	347.7	343.6	340.6
65°	313.5	317.9	317.3	319.6	317.3	317.9	313.5	310.7	304.6	300.7	297.3
67.5°	269.4	272.1	276.1	276.5	276.1	272.1	269.4	265.0	261.0	256.9	252.9
70°	239.7	242.5	244.7	246.3	244.7	242.5	239.7	235.2	230.8	228.0	223.6
72.5°	210.8	212.3	217.6	215.2	217.6	212.3	210.8	205.5	201.9	199.6	194.8
75°	165.3	169.2	172.5	170.9	172.5	169.2	165.3	161.4	158.7	155.3	150.9
77.5°	122.3	126.1	127.7	126.3	127.7	126.1	122.3	119.8	118.3	111.8	111.3
80°	96.5	96.0	99.3	98.7	99.3	96.0	96.5	92.6	89.8	86.0	86.0
82.5°	70.8	70.3	71.8	72.2	71.8	70.3	70.8	68.6	65.1	63.3	62.0
85°	34.4	36.0	33.8	33.3	33.8	36.0	34.4	32.2	32.2	32.2	31.6
87.5°	14.0	14.1	13.8	13.4	13.8	14.1	14.0	13.9	15.6	14.0	13.9
90°	30.1	30.5	31.0	31.5	31.0	30.5	30.1	29.6	28.9	28.0	27.0
92.5°	34.0	34.2	34.5	34.8	34.5	34.2	34.0	33.7	32.8	31.3	29.8
95°	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.1	37.4	35.8
97.5°	42.5	42.7	43.0	43.2	43.0	42.7	42.5	42.2	41.2	39.4	37.5
100°	43.3	43.5	43.8	44.0	43.8	43.5	43.3	43.1	42.1	40.2	38.3
102.5°	43.6	44.0	44.4	44.8	44.4	44.0	43.6	43.2	45.9	51.6	57.4
105°	44.8	45.2	45.7	46.1	45.7	45.2	44.8	44.3	64.7	105.9	147.1
107.5°	238.1	207.0	175.9	144.9	175.9	207.0	238.1	269.2	299.9	330.1	360.4
110°	388.2	354.9	321.6	288.3	321.6	354.9	388.2	421.5	442.1	449.7	457.4



TEST NUMBER: P332198-930

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	515.7	508.7	501.7	494.6	501.7	508.7	515.7	522.8	526.2	526.0	525.9
115°	613.6	614.6	615.5	616.4	615.5	614.6	613.6	612.7	611.1	608.7	606.4
117.5°	684.2	684.4	684.6	684.8	684.6	684.4	684.2	684.0	683.0	681.1	679.3
120°	731.7	731.7	731.7	731.7	731.7	731.7	731.7	731.7	730.8	729.0	727.1
122.5°	777.3	777.5	777.7	777.9	777.7	777.5	777.3	777.1	776.4	775.1	773.8
125°	841.5	842.0	842.4	842.9	842.4	842.0	841.5	841.0	840.5	840.1	839.6
127.5°	906.8	906.3	905.8	905.3	905.8	906.3	906.8	907.2	907.1	906.3	905.6
130°	947.0	946.6	946.1	945.6	946.1	946.6	947.0	947.5	947.2	946.3	945.3
132.5°	984.5	983.8	983.2	982.5	983.2	983.8	984.5	985.1	985.0	984.1	983.1
135°	1041.0	1040.3	1039.6	1038.9	1039.6	1040.3	1041.0	1041.7	1041.7	1041.0	1040.3
137.5°	1093.3	1092.9	1092.4	1091.9	1092.4	1092.9	1093.3	1093.8	1093.5	1092.3	1091.3
140°	1125.2	1124.7	1124.3	1123.8	1124.3	1124.7	1125.2	1125.7	1125.4	1124.5	1123.6
142.5°	1155.1	1154.5	1153.8	1153.2	1153.8	1154.5	1155.1	1155.8	1155.8	1155.0	1154.2
145°	1198.2	1198.2	1198.2	1198.2	1198.2	1198.2	1198.2	1198.2	1198.0	1197.5	1197.1
147.5°	1235.0	1234.0	1232.9	1231.8	1232.9	1234.0	1235.0	1236.1	1236.4	1235.9	1235.4
150°	1259.1	1258.3	1257.7	1256.9	1257.7	1258.3	1259.1	1259.7	1259.9	1259.4	1258.9
152.5°	1280.3	1279.2	1278.1	1277.1	1278.1	1279.2	1280.3	1281.4	1281.5	1280.7	1279.8
155°	1309.4	1308.0	1306.6	1305.2	1306.6	1308.0	1309.4	1310.8	1310.9	1309.7	1308.6
157.5°	1334.3	1332.5	1330.6	1328.9	1330.6	1332.5	1334.3	1336.1	1336.4	1335.0	1333.6
160°	1348.8	1347.2	1345.6	1343.9	1345.6	1347.2	1348.8	1350.5	1350.6	1349.2	1347.8
162.5°	1362.5	1361.1	1359.7	1358.2	1359.7	1361.1	1362.5	1364.0	1363.9	1362.4	1360.7
165°	1380.3	1378.7	1377.0	1375.4	1377.0	1378.7	1380.3	1381.9	1381.9	1380.0	1378.1
167.5°	1393.3	1391.6	1389.7	1387.8	1389.7	1391.6	1393.3	1395.2	1395.2	1393.3	1391.6
170°	1400.9	1399.1	1397.2	1395.3	1397.2	1399.1	1400.9	1402.8	1402.8	1400.9	1399.1
172.5°	1405.7	1403.6	1401.6	1399.5	1401.6	1403.6	1405.7	1407.7	1407.9	1406.0	1404.1
175°	1411.4	1409.6	1407.7	1405.8	1407.7	1409.6	1411.4	1413.2	1413.4	1411.8	1410.1
177.5°	1413.3	1411.4	1409.6	1407.7	1409.6	1411.4	1413.3	1415.2	1415.4	1413.9	1412.3
180°	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0



TEST NUMBER: P332198-930

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1
2.5°	1098.0	1098.0	1106.5	1111.8	1118.5	1122.9	1126.0	1129.1	1134.5	1141.6	1149.6
5°	1035.3	1037.5	1049.7	1061.9	1073.6	1083.5	1091.8	1101.9	1114.0	1129.0	1145.7
7.5°	974.4	983.0	995.3	1010.2	1026.5	1041.1	1055.8	1072.2	1089.4	1111.5	1134.8
10°	935.4	944.9	959.8	978.7	995.9	1013.1	1031.4	1049.1	1070.7	1096.8	1126.8
12.5°	901.2	910.2	925.6	946.2	962.6	981.5	1002.5	1025.6	1049.9	1081.3	1115.2
15°	853.9	864.4	883.2	893.2	918.2	940.9	960.3	993.7	1024.7	1056.9	1096.3
17.5°	815.0	820.9	836.2	854.8	873.3	898.9	924.3	952.0	983.0	1022.4	1071.6
20°	788.4	793.4	810.0	829.4	849.4	872.7	895.4	923.2	958.1	999.7	1053.0
22.5°	768.4	773.8	784.7	805.4	824.1	843.4	866.2	899.2	936.4	977.1	1034.9
25°	739.6	742.9	750.1	766.7	783.4	805.0	825.0	856.1	894.4	942.1	999.7
27.5°	712.2	715.3	721.4	733.4	748.9	766.4	788.1	814.6	853.4	905.2	966.5
30°	695.7	696.3	701.8	712.9	726.3	740.7	760.7	790.6	827.2	880.0	944.3
32.5°	681.5	679.4	683.2	691.6	704.5	718.9	735.3	764.8	800.1	852.0	918.1
35°	657.5	656.3	654.7	661.9	672.9	684.0	698.5	720.7	760.7	808.9	878.2
37.5°	632.9	630.2	627.3	630.6	639.3	650.8	663.3	683.1	717.5	770.6	837.0
40°	614.7	612.5	610.8	609.8	617.5	628.6	638.1	656.9	689.1	739.6	805.0
42.5°	594.8	593.5	591.3	589.8	596.2	604.6	614.5	631.1	663.3	710.7	772.7
45°	562.6	561.5	560.4	559.2	563.1	570.9	578.7	590.8	618.6	664.6	720.7
47.5°	526.8	525.3	525.7	524.0	527.7	533.0	538.3	551.5	578.1	615.3	656.2
50°	501.0	500.4	500.4	500.4	501.6	507.6	512.7	522.6	547.1	584.2	613.6
52.5°	476.5	474.3	474.3	475.2	477.1	481.0	484.2	495.1	516.4	546.9	573.6
55°	438.3	433.8	432.8	433.8	435.5	438.9	442.2	451.0	469.4	492.1	507.6
57.5°	395.9	393.5	392.0	392.2	393.1	395.8	398.4	408.0	422.4	434.3	444.3
60°	366.2	367.3	362.3	363.4	363.4	365.6	369.5	375.6	387.8	396.2	406.1
62.5°	338.2	336.6	335.3	333.6	333.6	334.5	339.7	344.5	355.0	359.3	367.0
65°	294.6	294.6	291.3	292.4	292.9	289.0	291.8	297.3	304.0	305.7	312.9
67.5°	250.5	248.9	247.0	245.3	245.3	245.0	246.5	249.2	254.2	254.8	260.3
70°	220.3	219.2	218.6	217.0	214.7	217.5	215.8	218.6	221.4	221.9	225.3
72.5°	190.9	189.9	188.8	187.2	186.3	186.0	186.1	189.3	191.2	190.4	194.2
75°	149.3	148.1	147.0	144.2	144.2	142.6	143.2	145.4	147.6	145.9	149.3
77.5°	109.7	106.2	106.0	106.7	104.8	105.2	104.5	104.2	105.2	105.3	108.3
80°	84.3	80.5	81.5	81.0	80.5	79.9	78.8	79.3	79.9	80.5	82.1
82.5°	60.8	60.5	59.4	59.3	58.7	57.2	56.6	57.6	58.1	57.8	59.0
85°	31.1	29.4	30.5	29.9	30.5	29.9	28.3	28.3	29.4	28.9	29.9
87.5°	14.5	14.3	13.3	13.1	12.1	11.9	10.9	10.9	10.9	10.4	10.8
90°	26.1	25.2	22.1	19.1	16.1	13.0	10.4	8.1	5.7	3.3	1.1
92.5°	28.3	26.8	24.5	22.3	20.0	17.7	16.9	17.5	18.2	18.8	19.5
95°	34.2	32.5	29.9	27.4	24.8	22.3	25.8	35.3	44.8	54.4	63.9
97.5°	35.6	33.8	50.5	67.3	84.1	100.9	111.4	115.7	119.9	124.3	128.5
100°	36.4	34.6	70.9	107.3	143.7	179.9	195.8	191.1	186.5	181.8	177.2
102.5°	63.2	69.0	108.7	148.4	188.1	227.8	246.0	242.6	239.2	235.9	232.5
105°	188.3	229.6	250.5	271.5	292.4	313.5	322.6	320.1	317.6	315.0	312.4
107.5°	390.5	420.8	417.5	414.2	410.9	407.6	404.9	402.8	400.8	398.8	396.7
110°	465.1	472.8	470.3	467.7	465.1	462.5	460.3	458.4	456.6	454.8	452.9



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	525.8	525.6	523.1	520.5	518.0	515.4	513.2	511.6	509.9	508.3	506.5
115°	604.1	601.8	599.7	597.5	595.4	593.4	591.6	590.2	588.8	587.4	586.0
117.5°	677.4	675.6	674.5	673.4	672.3	671.2	669.8	668.1	666.4	664.7	663.0
120°	725.2	723.3	722.7	721.9	721.2	720.6	719.2	717.1	714.9	712.9	710.8
122.5°	772.5	771.2	770.3	769.4	768.5	767.6	766.3	764.6	762.9	761.2	759.5
125°	839.1	838.7	837.7	836.8	835.8	834.9	833.6	831.7	829.8	827.9	826.1
127.5°	904.8	904.1	902.9	901.9	900.7	899.6	898.1	896.3	894.4	892.5	890.6
130°	944.4	943.5	942.6	941.7	940.7	939.8	938.4	936.5	934.7	932.8	930.9
132.5°	982.2	981.2	980.5	979.7	979.0	978.3	977.0	975.1	973.2	971.3	969.5
135°	1039.6	1038.9	1038.0	1037.1	1036.1	1035.2	1034.0	1032.6	1031.2	1029.8	1028.4
137.5°	1090.1	1089.0	1088.5	1088.0	1087.4	1087.0	1085.8	1084.0	1082.3	1080.5	1078.7
140°	1122.7	1121.7	1121.0	1120.3	1119.7	1118.9	1117.9	1116.5	1115.1	1113.7	1112.3
142.5°	1153.5	1152.8	1152.0	1151.4	1150.6	1150.0	1148.9	1147.5	1146.1	1144.7	1143.3
145°	1196.6	1196.1	1195.7	1195.2	1194.7	1194.3	1193.3	1191.6	1190.0	1188.4	1186.7
147.5°	1235.0	1234.5	1234.0	1233.5	1233.1	1232.7	1231.9	1230.8	1229.7	1228.7	1227.6
150°	1258.5	1258.0	1257.5	1257.0	1256.6	1256.1	1255.6	1254.8	1254.2	1253.4	1252.8
152.5°	1279.0	1278.1	1277.8	1277.6	1277.3	1277.0	1276.7	1276.4	1276.0	1275.7	1275.4
155°	1307.4	1306.2	1306.0	1305.8	1305.5	1305.3	1305.4	1305.9	1306.4	1306.8	1307.3
157.5°	1332.1	1330.7	1331.0	1331.2	1331.5	1331.7	1331.8	1331.9	1332.0	1332.0	1332.0
160°	1346.4	1345.0	1345.2	1345.5	1345.7	1346.0	1346.1	1346.4	1346.6	1346.9	1347.1
162.5°	1359.2	1357.6	1357.8	1358.0	1358.3	1358.5	1358.9	1359.5	1360.2	1360.7	1361.4
165°	1376.2	1374.4	1374.6	1374.8	1375.1	1375.3	1375.7	1376.5	1377.1	1377.9	1378.6
167.5°	1389.7	1387.8	1387.8	1387.8	1387.8	1387.8	1388.2	1389.2	1390.1	1391.1	1392.0
170°	1397.2	1395.3	1395.3	1395.3	1395.3	1395.3	1395.8	1396.8	1397.7	1398.6	1399.5
172.5°	1402.2	1400.4	1400.2	1400.0	1399.8	1399.6	1400.1	1401.2	1402.3	1403.5	1404.6
175°	1408.5	1406.9	1406.6	1406.4	1406.1	1405.9	1406.4	1407.5	1408.8	1409.9	1411.0
177.5°	1410.9	1409.4	1409.2	1409.0	1408.8	1408.7	1409.0	1410.0	1410.9	1411.8	1412.8
180°	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1
2.5°	1152.2	1154.5	1162.0	1167.3	1173.5	1177.0	1180.6	1183.3	1186.8	1187.7	1200.6
5°	1157.3	1168.4	1187.8	1202.2	1220.0	1239.4	1252.7	1258.8	1275.0	1288.3	1314.9
7.5°	1155.8	1179.5	1208.8	1239.2	1271.9	1302.0	1328.2	1359.3	1381.4	1414.5	1447.2
10°	1154.5	1186.2	1223.9	1262.7	1308.2	1350.4	1388.1	1430.3	1465.3	1511.3	1550.7
12.5°	1150.6	1188.9	1241.2	1287.1	1342.4	1400.5	1456.5	1510.6	1541.6	1618.3	1654.6
15°	1140.7	1186.2	1251.6	1321.5	1397.6	1466.3	1537.3	1594.0	1685.5	1752.6	1795.4
17.5°	1121.9	1185.5	1263.1	1347.5	1439.9	1530.6	1611.0	1697.0	1794.0	1875.3	1961.8
20°	1113.0	1182.8	1269.4	1362.6	1458.6	1561.2	1652.8	1756.0	1861.9	1941.8	2052.8
22.5°	1096.5	1175.7	1268.9	1372.8	1475.4	1581.6	1688.7	1792.8	1915.2	2025.3	2130.9
25°	1069.7	1158.5	1255.0	1370.9	1491.3	1597.8	1726.0	1864.2	1991.8	2133.2	2238.6
27.5°	1041.5	1136.2	1233.0	1340.8	1470.3	1596.8	1757.9	1914.1	2070.0	2192.3	2270.3
30°	1019.7	1111.8	1211.7	1320.5	1448.6	1599.0	1779.2	1949.5	2101.6	2206.4	2250.3
32.5°	996.2	1089.6	1177.9	1292.0	1428.6	1597.6	1792.6	1970.4	2103.4	2173.2	2164.6
35°	959.3	1037.5	1123.5	1233.3	1394.2	1587.9	1800.3	1972.3	2053.9	2038.9	1925.7
37.5°	906.0	971.8	1056.5	1176.7	1354.3	1567.3	1784.8	1913.8	1908.5	1786.6	1622.6
40°	872.7	928.7	1010.3	1136.8	1323.2	1554.0	1760.4	1844.2	1773.2	1602.8	1406.4
42.5°	829.2	880.8	962.4	1092.4	1289.1	1526.9	1713.8	1738.1	1599.1	1403.1	1223.1
45°	761.7	807.2	891.5	1025.8	1237.8	1468.0	1600.0	1540.7	1353.7	1151.2	1014.2
47.5°	689.3	736.5	817.7	955.6	1163.7	1379.3	1442.3	1316.0	1124.1	959.8	834.0
50°	643.6	689.1	768.4	907.7	1113.5	1306.6	1332.6	1169.5	993.1	848.9	745.7
52.5°	597.5	640.3	718.3	857.9	1054.9	1222.2	1206.2	1039.9	877.7	754.7	673.8
55°	528.7	569.2	643.6	774.5	953.7	1086.3	1028.1	869.4	735.2	639.7	578.1
57.5°	467.2	506.1	570.2	688.5	844.3	935.4	861.3	727.6	620.9	547.4	501.4
60°	425.5	459.9	521.0	630.8	766.2	835.5	762.3	644.2	554.2	495.5	454.4
62.5°	386.0	416.0	472.5	572.3	689.8	748.1	674.0	574.0	497.4	445.3	410.4
65°	326.2	353.4	403.3	481.0	577.6	616.4	552.6	471.6	412.2	373.4	350.1
67.5°	271.7	294.7	337.9	399.0	470.0	498.3	449.7	387.0	342.3	311.1	292.6
70°	235.2	255.2	289.0	341.8	406.1	427.8	382.3	330.7	297.9	273.0	255.8
72.5°	204.6	219.2	250.0	290.7	344.4	361.6	329.9	284.5	254.0	235.2	221.6
75°	155.9	168.1	188.1	220.8	258.0	268.0	244.1	215.8	195.3	182.0	171.5
77.5°	112.4	121.4	135.8	156.0	181.7	190.8	175.6	156.8	141.8	132.8	126.9
80°	84.9	92.1	104.3	120.9	136.5	141.5	132.6	118.1	107.6	102.6	97.7
82.5°	62.7	66.8	74.1	85.4	96.1	102.0	94.4	85.8	80.1	75.6	73.7
85°	31.6	33.8	37.2	41.6	48.3	50.5	47.7	45.5	42.2	39.4	39.4
87.5°	12.2	12.7	14.5	15.8	18.2	20.1	20.2	20.0	20.1	19.9	19.6
90°	3.3	5.7	8.1	10.4	13.0	16.1	19.1	22.1	25.2	26.1	27.0
92.5°	18.8	18.2	17.5	16.9	17.7	20.0	22.3	24.5	26.8	28.3	29.8
95°	54.4	44.8	35.3	25.8	22.3	24.8	27.4	29.9	32.5	34.2	35.8
97.5°	124.3	119.9	115.7	111.4	100.9	84.1	67.3	50.5	33.8	35.6	37.5
100°	181.8	186.5	191.1	195.8	179.9	143.7	107.3	70.9	34.6	36.4	38.3
102.5°	235.9	239.2	242.6	246.0	227.8	188.1	148.4	108.7	69.0	63.2	57.4
105°	315.0	317.6	320.1	322.6	313.5	292.4	271.5	250.5	229.6	188.3	147.1
107.5°	398.8	400.8	402.8	404.9	407.6	410.9	414.2	417.5	420.8	390.5	360.4
110°	454.8	456.6	458.4	460.3	462.5	465.1	467.7	470.3	472.8	465.1	457.4





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	508.3	509.9	511.6	513.2	515.4	518.0	520.5	523.1	525.6	525.8	525.9
115°	587.4	588.8	590.2	591.6	593.4	595.4	597.5	599.7	601.8	604.1	606.4
117.5°	664.7	666.4	668.1	669.8	671.2	672.3	673.4	674.5	675.6	677.4	679.3
120°	712.9	714.9	717.1	719.2	720.6	721.2	721.9	722.7	723.3	725.2	727.1
122.5°	761.2	762.9	764.6	766.3	767.6	768.5	769.4	770.3	771.2	772.5	773.8
125°	827.9	829.8	831.7	833.6	834.9	835.8	836.8	837.7	838.7	839.1	839.6
127.5°	892.5	894.4	896.3	898.1	899.6	900.7	901.9	902.9	904.1	904.8	905.6
130°	932.8	934.7	936.5	938.4	939.8	940.7	941.7	942.6	943.5	944.4	945.3
132.5°	971.3	973.2	975.1	977.0	978.3	979.0	979.7	980.5	981.2	982.2	983.1
135°	1029.8	1031.2	1032.6	1034.0	1035.2	1036.1	1037.1	1038.0	1038.9	1039.6	1040.3
137.5°	1080.5	1082.3	1084.0	1085.8	1087.0	1087.4	1088.0	1088.5	1089.0	1090.1	1091.3
140°	1113.7	1115.1	1116.5	1117.9	1118.9	1119.7	1120.3	1121.0	1121.7	1122.7	1123.6
142.5°	1144.7	1146.1	1147.5	1148.9	1150.0	1150.6	1151.4	1152.0	1152.8	1153.5	1154.2
145°	1188.4	1190.0	1191.6	1193.3	1194.3	1194.7	1195.2	1195.7	1196.1	1196.6	1197.1
147.5°	1228.7	1229.7	1230.8	1231.9	1232.7	1233.1	1233.5	1234.0	1234.5	1235.0	1235.4
150°	1253.4	1254.2	1254.8	1255.6	1256.1	1256.6	1257.0	1257.5	1258.0	1258.5	1258.9
152.5°	1275.7	1276.0	1276.4	1276.7	1277.0	1277.3	1277.6	1277.8	1278.1	1279.0	1279.8
155°	1306.8	1306.4	1305.9	1305.4	1305.3	1305.5	1305.8	1306.0	1306.2	1307.4	1308.6
157.5°	1332.0	1332.0	1331.9	1331.8	1331.7	1331.5	1331.2	1331.0	1330.7	1332.1	1333.6
160°	1346.9	1346.6	1346.4	1346.1	1346.0	1345.7	1345.5	1345.2	1345.0	1346.4	1347.8
162.5°	1360.7	1360.2	1359.5	1358.9	1358.5	1358.3	1358.0	1357.8	1357.6	1359.2	1360.7
165°	1377.9	1377.1	1376.5	1375.7	1375.3	1375.1	1374.8	1374.6	1374.4	1376.2	1378.1
167.5°	1391.1	1390.1	1389.2	1388.2	1387.8	1387.8	1387.8	1387.8	1387.8	1389.7	1391.6
170°	1398.6	1397.7	1396.8	1395.8	1395.3	1395.3	1395.3	1395.3	1395.3	1397.2	1399.1
172.5°	1403.5	1402.3	1401.2	1400.1	1399.6	1399.8	1400.0	1400.2	1400.4	1402.2	1404.1
175°	1409.9	1408.8	1407.5	1406.4	1405.9	1406.1	1406.4	1406.6	1406.9	1408.5	1410.1
177.5°	1411.8	1410.9	1410.0	1409.0	1408.7	1408.8	1409.0	1409.2	1409.4	1410.9	1412.3
180°	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1
2.5°	1205.0	1205.5	1210.4	1213.9	1212.1	1214.4	1215.2
5°	1316.5	1336.5	1347.0	1354.9	1355.4	1355.9	1360.4
7.5°	1474.6	1496.1	1511.7	1535.5	1542.5	1550.7	1548.3
10°	1590.1	1621.7	1648.9	1663.3	1678.9	1701.6	1683.3
12.5°	1697.9	1754.0	1795.4	1817.8	1832.4	1837.0	1828.0
15°	1875.8	1949.1	1988.4	1987.3	2037.3	2058.9	2025.0
17.5°	2038.9	2106.5	2160.6	2188.3	2230.0	2239.2	2235.0
20°	2138.8	2212.6	2254.7	2302.4	2324.1	2343.5	2346.8
22.5°	2224.9	2291.2	2336.4	2376.1	2394.2	2403.4	2409.0
25°	2313.5	2365.7	2392.9	2406.8	2411.7	2410.6	2403.4
27.5°	2307.5	2311.5	2281.5	2252.1	2225.8	2196.2	2185.9
30°	2247.5	2200.9	2117.7	2070.5	2001.2	1946.3	1968.5
32.5°	2089.9	1997.2	1903.7	1800.7	1715.3	1691.0	1666.6
35°	1783.7	1620.6	1525.2	1414.2	1369.8	1325.4	1294.9
37.5°	1443.1	1316.9	1203.7	1131.1	1086.6	1058.6	1043.5
40°	1247.7	1134.0	1040.8	982.0	948.2	916.6	912.1
42.5°	1091.9	986.2	916.1	869.3	836.7	823.3	813.6
45°	894.4	820.5	773.4	740.1	718.4	710.1	699.0
47.5°	757.0	704.8	669.4	646.8	630.5	624.3	623.4
50°	680.2	636.9	610.8	593.0	580.3	578.1	569.2
52.5°	622.5	585.0	564.7	549.2	540.0	533.7	531.1
55°	540.4	515.4	497.1	488.2	481.0	474.9	474.9
57.5°	472.8	451.9	439.9	432.3	430.1	425.7	423.0
60°	431.0	413.4	403.9	397.2	392.8	393.4	388.3
62.5°	390.3	378.7	369.7	363.1	357.8	357.8	358.2
65°	332.3	323.4	316.8	314.5	311.3	307.4	308.5
67.5°	281.6	273.3	268.1	264.3	263.2	261.1	264.3
70°	245.2	239.1	235.2	231.9	230.8	231.4	234.2
72.5°	211.9	207.6	205.0	203.5	201.1	201.1	203.1
75°	166.4	163.1	160.9	159.2	158.7	158.7	158.7
77.5°	122.3	121.5	120.5	118.1	118.1	118.9	119.0
80°	96.5	94.9	94.3	93.2	91.6	90.4	93.2
82.5°	72.2	70.4	69.9	69.7	67.1	66.9	69.2
85°	38.8	37.2	37.7	37.2	37.2	36.6	36.6
87.5°	19.3	19.1	18.8	19.3	19.0	18.6	19.6
90°	28.0	28.9	29.6	30.1	30.5	31.0	31.5
92.5°	31.3	32.8	33.7	34.0	34.2	34.5	34.8
95°	37.4	39.1	39.9	39.9	39.9	39.9	39.9
97.5°	39.4	41.2	42.2	42.5	42.7	43.0	43.2
100°	40.2	42.1	43.1	43.3	43.5	43.8	44.0
102.5°	51.6	45.9	43.2	43.6	44.0	44.4	44.8
105°	105.9	64.7	44.3	44.8	45.2	45.7	46.1
107.5°	330.1	299.9	269.2	238.1	207.0	175.9	144.9
110°	449.7	442.1	421.5	388.2	354.9	321.6	288.3



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	526.0	526.2	522.8	515.7	508.7	501.7	494.6
115°	608.7	611.1	612.7	613.6	614.6	615.5	616.4
117.5°	681.1	683.0	684.0	684.2	684.4	684.6	684.8
120°	729.0	730.8	731.7	731.7	731.7	731.7	731.7
122.5°	775.1	776.4	777.1	777.3	777.5	777.7	777.9
125°	840.1	840.5	841.0	841.5	842.0	842.4	842.9
127.5°	906.3	907.1	907.2	906.8	906.3	905.8	905.3
130°	946.3	947.2	947.5	947.0	946.6	946.1	945.6
132.5°	984.1	985.0	985.1	984.5	983.8	983.2	982.5
135°	1041.0	1041.7	1041.7	1041.0	1040.3	1039.6	1038.9
137.5°	1092.3	1093.5	1093.8	1093.3	1092.9	1092.4	1091.9
140°	1124.5	1125.4	1125.7	1125.2	1124.7	1124.3	1123.8
142.5°	1155.0	1155.8	1155.8	1155.1	1154.5	1153.8	1153.2
145°	1197.5	1198.0	1198.2	1198.2	1198.2	1198.2	1198.2
147.5°	1235.9	1236.4	1236.1	1235.0	1234.0	1232.9	1231.8
150°	1259.4	1259.9	1259.7	1259.1	1258.3	1257.7	1256.9
152.5°	1280.7	1281.5	1281.4	1280.3	1279.2	1278.1	1277.1
155°	1309.7	1310.9	1310.8	1309.4	1308.0	1306.6	1305.2
157.5°	1335.0	1336.4	1336.1	1334.3	1332.5	1330.6	1328.9
160°	1349.2	1350.6	1350.5	1348.8	1347.2	1345.6	1343.9
162.5°	1362.4	1363.9	1364.0	1362.5	1361.1	1359.7	1358.2
165°	1380.0	1381.9	1381.9	1380.3	1378.7	1377.0	1375.4
167.5°	1393.3	1395.2	1395.2	1393.3	1391.6	1389.7	1387.8
170°	1400.9	1402.8	1402.8	1400.9	1399.1	1397.2	1395.3
172.5°	1406.0	1407.9	1407.7	1405.7	1403.6	1401.6	1399.5
175°	1411.8	1413.4	1413.2	1411.4	1409.6	1407.7	1405.8
177.5°	1413.9	1415.4	1415.2	1413.3	1411.4	1409.6	1407.7
180°	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0

(END OF REPORT)