

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: P331580-930

Luminaire Tested: **S122DIW-S865D1440U930-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331580-930  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122DIW-S865D1440U930-4F0-1E-UDD-A1  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1440 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7184.0 lumens  
Efficiency: N/A  
Efficacy: 93.8 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse

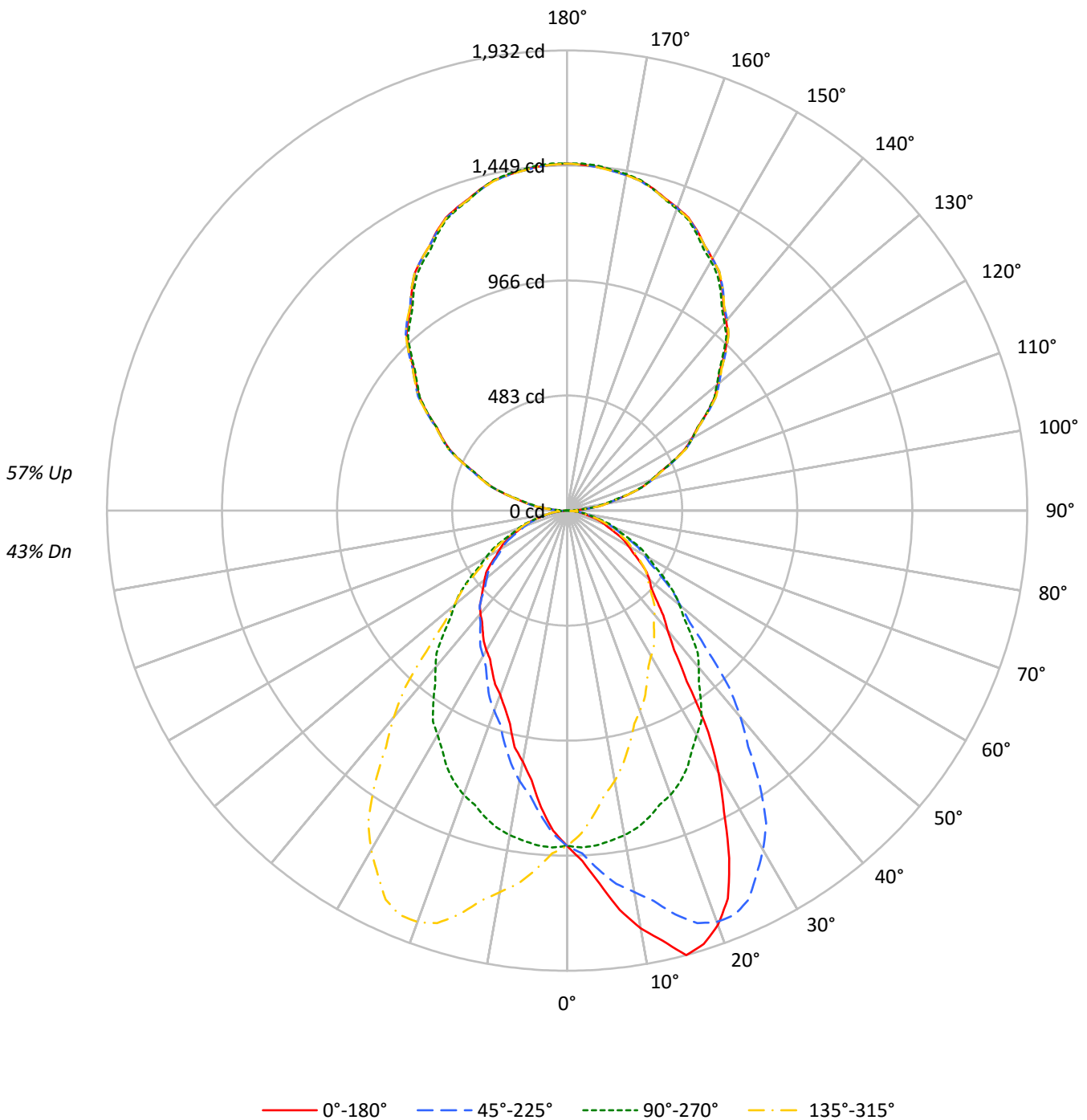
Input Watts (W): 76.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	64	64	64	50	50	50	43				
1	97	93	89	86	88	85	82	79	70	68	66	57	56	54	45	44	43	37				
2	88	81	75	70	81	75	70	65	62	58	55	51	48	46	40	38	37	32				
3	81	72	65	59	74	66	60	55	55	51	47	45	42	39	36	34	32	27				
4	74	64	56	50	68	59	52	47	49	44	40	40	37	34	32	30	28	24				
5	68	57	49	43	62	53	46	41	44	39	35	36	33	30	29	27	24	21				
6	63	51	43	38	57	47	40	35	40	35	31	33	29	26	27	24	22	19				
7	58	46	39	33	53	43	36	31	36	31	27	30	26	23	24	22	19	17				
8	54	42	35	30	49	39	32	28	33	28	24	28	24	21	23	20	18	15				
9	50	39	31	26	46	36	29	25	31	25	22	26	22	19	21	18	16	14				
10	47	35	28	24	43	33	27	22	28	23	20	24	20	17	19	17	15	13				

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

	0°	90°	180°	270°
0°	22727	22727	22727	22727
5°	25480	22875	20272	22875
10°	29198	22689	17544	22689
15°	32301	22272	15499	22272
20°	31809	21825	14129	21825
25°	28682	21232	13261	21232
30°	23702	20282	12629	20282
35°	17274	19291	12177	19291
40°	13797	18120	11927	18120
45°	12056	16762	11586	16762
50°	11333	15450	11359	15450
55°	10446	14117	11054	14117
60°	9571	12700	10585	12700
65°	8722	11427	10128	11427
70°	7917	10192	9451	10192
75°	7018	8808	8372	8808
80°	6034	7290	6741	7290
85°	5409	5409	4001	5409



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.1	1.9
10°-20°	389.7	5.4
20°-30°	565.6	7.9
30°-40°	596.9	8.3
40°-50°	528.5	7.4
50°-60°	421.7	5.9
60°-70°	286.7	4.0
70°-80°	147.0	2.0
80°-90°	41.2	0.6
90°-100°	92.3	1.3
100°-110°	286.6	4.0
110°-120°	490.0	6.8
120°-130°	644.3	9.0
130°-140°	723.2	10.1
140°-150°	709.1	9.9
150°-160°	594.8	8.3
160°-170°	394.5	5.5
170°-180°	137.9	1.9
0°-30°	1089.4	15.2
0°-40°	1686.3	23.5
0°-60°	2636.5	36.7
0°-90°	3111.4	43.3
90°-120°	868.9	12.1
90°-150°	2945.5	41.0
90°-180°	4073.0	56.7
0°-180°	7184.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1408	1408	1408	1408	1408	
5°	1572	1411	1251	1411	1572	157
15°	1932	1332	927	1332	1932	533
25°	1610	1192	744	1192	1610	728
35°	876	979	618	979	876	570
45°	528	734	507	734	528	415
55°	371	502	393	502	371	333
65°	228	299	265	299	228	227
75°	112	141	134	141	112	120
85°	29	29	22	29	29	33
90°	42	1	42	1	42	20
95°	76	64	76	64	76	85
105°	273	264	273	264	273	287
115°	492	492	492	492	492	486
125°	718	715	718	715	718	640
135°	937	926	937	926	937	721
145°	1136	1123	1136	1123	1136	709
155°	1294	1284	1294	1284	1294	596
165°	1399	1398	1399	1398	1399	394
175°	1449	1454	1449	1454	1449	138
180°	1456	1456	1456	1456	1456	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6
2.5°	1472.6	1473.0	1473.9	1467.0	1466.1	1466.1	1460.0	1454.8	1448.8	1440.6	1441.4
5°	1572.1	1578.1	1580.2	1573.8	1564.0	1562.9	1553.7	1538.6	1524.5	1513.1	1505.0
7.5°	1690.9	1693.3	1688.0	1679.4	1672.2	1659.2	1642.1	1625.4	1601.9	1580.4	1564.3
10°	1780.9	1784.2	1775.0	1762.5	1752.2	1737.1	1712.2	1686.8	1656.0	1626.2	1602.4
12.5°	1849.3	1857.3	1845.5	1843.9	1826.3	1805.5	1775.9	1763.0	1719.6	1678.1	1652.6
15°	1932.4	1931.9	1933.0	1922.6	1909.7	1906.4	1875.1	1841.0	1779.9	1755.5	1713.4
17.5°	1908.4	1916.6	1920.4	1920.3	1919.9	1917.9	1907.9	1886.4	1855.7	1816.2	1767.5
20°	1851.3	1862.1	1863.7	1876.2	1883.2	1892.4	1896.1	1890.2	1871.3	1838.3	1796.1
22.5°	1763.0	1766.0	1771.1	1790.5	1805.7	1828.8	1840.8	1860.8	1853.5	1837.4	1802.1
25°	1610.0	1604.6	1623.5	1633.2	1668.4	1705.2	1731.7	1760.9	1786.9	1802.5	1792.3
27.5°	1426.3	1418.1	1446.5	1472.3	1500.9	1540.8	1582.1	1630.8	1671.4	1722.2	1739.6
30°	1271.3	1276.2	1303.3	1330.8	1374.1	1430.4	1476.9	1530.5	1588.4	1645.1	1684.7
32.5°	1104.2	1123.0	1140.1	1182.3	1220.5	1283.2	1351.4	1418.4	1490.5	1555.1	1616.2
35°	876.4	898.1	921.9	952.7	1006.2	1068.4	1135.0	1225.3	1323.8	1412.0	1484.5
37.5°	737.7	734.3	747.9	770.1	813.5	863.7	940.4	1029.6	1145.5	1249.1	1351.4
40°	654.6	652.4	662.2	682.7	715.8	752.5	819.6	898.1	1005.7	1132.3	1254.0
42.5°	597.5	598.8	604.1	618.6	641.3	671.6	721.8	788.6	887.1	1006.3	1137.2
45°	528.0	531.8	537.8	544.8	557.7	582.6	610.7	658.4	736.3	835.8	964.6
47.5°	478.0	478.1	484.2	490.3	498.1	512.1	535.0	564.9	619.9	700.9	811.6
50°	451.2	447.4	451.8	456.6	464.7	474.4	489.6	517.7	554.5	620.0	712.5
52.5°	418.3	418.4	422.3	424.1	431.4	441.2	454.9	474.4	507.8	559.0	635.0
55°	371.1	373.8	376.0	379.2	385.7	392.7	403.6	416.5	442.5	480.9	537.2
57.5°	326.8	327.6	329.8	336.0	340.1	346.6	356.9	368.6	385.5	413.9	456.2
60°	296.4	296.4	300.8	303.5	308.9	315.4	323.5	334.8	350.0	373.2	407.4
62.5°	268.8	268.3	270.0	274.5	278.6	284.7	292.8	302.4	316.7	337.4	365.4
65°	228.3	227.2	230.5	231.5	235.9	241.8	248.3	258.6	269.9	285.1	310.0
67.5°	189.3	190.6	192.4	194.4	196.8	203.1	207.4	214.7	224.3	236.8	253.7
70°	167.7	167.7	167.7	169.3	172.6	175.9	180.2	186.1	195.3	206.1	221.3
72.5°	143.5	145.2	146.9	145.9	150.1	152.1	157.2	160.5	169.3	176.3	189.6
75°	112.5	112.5	112.5	115.2	116.8	118.5	121.7	125.0	129.3	137.9	145.0
77.5°	84.0	83.7	84.3	85.0	86.7	88.6	89.6	92.5	96.5	100.5	106.5
80°	64.9	66.0	66.5	67.6	67.6	68.7	69.2	73.1	75.7	78.4	82.3
82.5°	50.2	50.4	50.5	50.7	51.2	51.9	53.2	54.5	55.4	57.6	60.6
85°	29.2	28.7	28.7	29.8	29.2	29.2	30.3	31.4	31.4	31.9	33.5
87.5°	19.6	19.6	20.0	19.5	19.4	19.8	20.0	19.6	20.2	20.7	20.0
90°	41.8	41.5	41.3	41.0	40.7	40.8	41.4	41.9	42.5	43.0	37.0
92.5°	39.8	39.8	39.7	39.6	39.6	39.5	39.4	39.3	39.2	39.1	37.7
95°	76.2	76.7	77.3	77.9	78.4	78.7	78.7	78.7	78.7	78.7	78.1
97.5°	132.0	132.1	132.1	132.2	132.2	132.2	132.2	132.2	132.2	132.2	131.2
100°	168.4	168.7	168.9	169.2	169.5	169.6	169.6	169.6	169.6	169.6	168.8
102.5°	209.7	209.9	210.3	210.5	210.8	210.8	210.6	210.3	210.2	209.9	208.9
105°	272.9	272.9	272.9	272.9	272.9	272.6	272.1	271.5	270.9	270.4	269.9
107.5°	332.3	333.6	334.8	336.1	337.4	337.9	337.7	337.5	337.2	337.0	337.0
110°	378.5	379.4	380.2	381.0	381.8	382.3	382.3	382.3	382.3	382.3	382.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	422.8	423.4	424.0	424.6	425.2	425.8	426.5	427.1	427.8	428.4	428.7
115°	491.6	492.4	493.3	494.1	494.9	495.5	495.7	496.0	496.3	496.6	497.1
117.5°	557.3	558.1	558.9	559.7	560.5	561.3	562.0	562.6	563.3	563.9	565.4
120°	603.5	604.3	605.1	605.9	606.7	607.2	607.2	607.2	607.2	607.2	609.4
122.5°	648.7	649.3	650.0	650.5	651.1	651.8	652.4	653.1	653.7	654.4	655.9
125°	717.8	718.1	718.4	718.6	718.9	719.4	720.2	721.1	721.9	722.7	723.6
127.5°	780.7	781.6	782.4	783.3	784.2	785.1	786.1	787.1	788.1	789.1	790.1
130°	826.0	827.0	828.2	829.2	830.3	831.1	831.7	832.3	832.8	833.3	833.9
132.5°	869.2	870.1	871.0	871.9	872.7	873.8	875.0	876.2	877.3	878.6	878.5
135°	936.6	937.4	938.2	939.1	939.9	940.4	940.7	940.9	941.3	941.5	940.9
137.5°	997.5	998.7	999.7	1000.9	1001.9	1002.6	1002.8	1003.0	1003.2	1003.5	1002.7
140°	1039.8	1040.9	1042.0	1043.1	1044.2	1044.7	1044.7	1044.7	1044.7	1044.7	1043.4
142.5°	1078.2	1079.3	1080.4	1081.5	1082.6	1083.0	1082.8	1082.6	1082.3	1082.1	1081.2
145°	1135.7	1136.8	1137.9	1139.0	1140.0	1140.4	1140.2	1140.0	1139.6	1139.4	1137.8
147.5°	1187.1	1188.1	1189.1	1190.2	1191.2	1191.5	1190.8	1190.3	1189.7	1189.0	1188.0
150°	1220.5	1221.3	1222.1	1222.9	1223.8	1223.8	1222.9	1222.1	1221.3	1220.5	1219.4
152.5°	1252.0	1253.0	1254.0	1255.1	1256.1	1256.1	1255.1	1254.0	1253.0	1252.0	1250.7
155°	1294.3	1295.1	1295.9	1296.7	1297.5	1297.2	1295.9	1294.5	1293.1	1291.8	1290.9
157.5°	1330.6	1332.0	1333.3	1334.6	1335.9	1335.6	1333.7	1331.9	1330.0	1328.2	1327.7
160°	1353.2	1354.4	1355.4	1356.5	1357.6	1357.3	1355.7	1354.0	1352.4	1350.8	1350.5
162.5°	1372.9	1374.3	1375.6	1376.9	1378.2	1377.9	1376.1	1374.2	1372.3	1370.4	1370.2
165°	1398.7	1400.1	1401.5	1402.8	1404.2	1403.9	1402.0	1400.1	1398.2	1396.3	1396.3
167.5°	1419.8	1421.3	1422.7	1424.2	1425.6	1425.3	1423.4	1421.5	1419.6	1417.6	1417.7
170°	1430.7	1432.3	1433.9	1435.6	1437.2	1437.1	1435.2	1433.3	1431.3	1429.5	1429.7
172.5°	1439.6	1441.2	1442.8	1444.5	1446.1	1445.9	1444.1	1442.1	1440.2	1438.3	1438.6
175°	1449.1	1450.7	1452.4	1454.0	1455.7	1455.6	1453.6	1451.7	1449.8	1447.9	1448.5
177.5°	1453.5	1454.8	1456.2	1457.5	1458.8	1458.8	1457.5	1456.2	1454.8	1453.5	1454.0
180°	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6
2.5°	1444.5	1441.0	1438.8	1431.0	1424.1	1417.2	1415.0	1415.8	1406.4	1397.3	1393.3
5°	1500.7	1489.9	1479.6	1465.0	1447.7	1428.7	1419.0	1411.4	1392.5	1372.0	1360.1
7.5°	1551.1	1535.6	1515.9	1488.4	1463.1	1433.4	1414.5	1397.7	1370.0	1341.0	1323.2
10°	1581.8	1560.7	1535.3	1501.8	1471.0	1434.7	1409.2	1383.9	1351.4	1316.8	1295.1
12.5°	1608.3	1579.8	1554.8	1511.7	1475.3	1430.0	1399.8	1363.9	1329.8	1288.7	1267.5
15°	1671.1	1618.6	1571.0	1522.3	1477.4	1414.1	1380.6	1332.4	1287.5	1236.7	1212.4
17.5°	1719.7	1660.8	1585.8	1523.9	1471.5	1401.4	1352.2	1294.5	1241.4	1183.2	1150.1
20°	1747.4	1679.8	1599.1	1525.6	1462.8	1382.7	1329.2	1270.2	1208.0	1142.6	1106.9
22.5°	1763.8	1692.7	1613.0	1519.1	1445.5	1367.6	1300.2	1235.6	1172.6	1101.9	1064.5
25°	1769.0	1704.1	1619.8	1513.7	1423.9	1335.7	1254.6	1191.8	1115.5	1049.5	994.9
27.5°	1743.3	1696.7	1615.6	1503.5	1398.9	1295.8	1205.3	1134.2	1053.8	982.1	927.2
30°	1711.7	1684.7	1605.7	1493.1	1379.0	1268.1	1168.6	1087.9	1007.9	935.4	879.1
32.5°	1662.8	1656.9	1587.5	1478.4	1357.8	1233.1	1130.0	1048.6	959.9	888.6	834.9
35°	1566.7	1592.7	1548.8	1445.5	1317.8	1183.2	1071.7	978.7	886.7	818.5	768.2
37.5°	1437.9	1502.4	1490.9	1397.3	1264.0	1128.9	1005.8	908.6	820.9	752.1	702.7
40°	1349.2	1431.4	1443.3	1360.6	1225.9	1086.9	956.5	859.7	774.1	711.4	661.6
42.5°	1254.0	1350.1	1382.7	1316.5	1184.3	1042.7	912.3	812.0	727.4	666.4	622.2
45°	1094.5	1221.6	1280.5	1242.7	1115.0	970.0	835.8	734.1	657.3	600.0	565.9
47.5°	945.2	1084.1	1163.4	1150.1	1037.8	894.2	761.6	664.0	589.2	543.5	513.0
50°	839.6	982.4	1078.2	1082.6	982.4	840.2	707.1	615.1	546.4	503.7	478.7
52.5°	747.9	884.2	988.6	1011.5	920.6	783.9	658.2	566.6	506.1	466.8	444.6
55°	628.1	743.3	859.1	901.3	828.3	698.4	582.1	501.5	444.7	417.7	398.2
57.5°	522.2	618.2	725.1	771.8	726.8	615.6	506.5	436.6	390.4	366.8	351.9
60°	466.4	542.1	637.3	693.0	654.0	555.1	459.8	393.3	355.5	334.4	320.2
62.5°	414.4	481.5	562.0	612.9	591.7	498.4	413.1	354.3	321.6	301.9	291.7
65°	341.9	394.9	457.1	504.2	490.2	419.2	349.5	299.1	273.2	257.5	249.4
67.5°	281.5	319.8	363.0	404.2	392.9	342.7	286.6	247.4	228.1	214.6	209.7
70°	243.4	272.6	311.0	344.1	334.8	293.8	249.4	215.9	199.1	187.8	182.9
72.5°	207.1	231.1	260.4	287.4	281.2	247.0	210.0	184.7	171.8	161.3	157.4
75°	156.4	174.7	192.6	210.4	208.8	182.3	160.7	141.2	130.9	122.8	121.2
77.5°	115.4	125.7	137.9	148.5	145.5	130.4	113.4	102.2	94.7	89.3	88.4
80°	88.2	94.2	102.8	110.4	106.6	100.1	86.6	78.4	73.1	67.6	65.5
82.5°	63.9	69.9	75.1	79.2	76.3	70.2	61.9	56.3	53.2	49.4	48.6
85°	33.5	36.8	39.0	40.0	39.0	35.1	31.4	29.2	26.5	24.9	24.4
87.5°	19.2	18.0	16.8	16.7	14.8	14.1	11.7	9.8	10.0	10.2	10.0
90°	31.0	25.0	19.0	14.3	11.1	7.7	4.5	1.2	4.5	7.7	11.1
92.5°	36.3	34.8	33.4	31.5	29.1	26.7	24.3	21.9	24.3	26.7	29.1
95°	77.5	77.0	76.5	74.8	72.1	69.4	66.6	63.9	66.6	69.4	72.1
97.5°	130.2	129.1	128.1	126.4	124.0	121.6	119.2	116.8	119.2	121.6	124.0
100°	168.0	167.1	166.3	164.9	162.7	160.5	158.2	156.1	158.2	160.5	162.7
102.5°	207.8	206.8	205.8	204.4	202.6	200.9	199.2	197.4	199.2	200.9	202.6
105°	269.3	268.8	268.2	267.5	266.7	265.9	265.1	264.2	265.1	265.9	266.7
107.5°	337.0	337.0	337.0	336.4	335.3	334.0	332.8	331.6	332.8	334.0	335.3
110°	382.3	382.3	382.3	381.4	379.8	378.1	376.5	374.9	376.5	378.1	379.8





TEST NUMBER: P331580-930

CATALOG NUMBER: S122DIW-S865D1440U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	428.9	429.1	429.3	428.6	427.0	425.3	423.7	422.1	423.7	425.3	427.0
115°	497.7	498.2	498.7	498.2	496.6	494.9	493.3	491.6	493.3	494.9	496.6
117.5°	567.0	568.5	570.1	569.7	567.5	565.3	563.1	561.0	563.1	565.3	567.5
120°	611.6	613.8	616.0	616.0	613.8	611.6	609.4	607.2	609.4	611.6	613.8
122.5°	657.5	659.0	660.5	660.0	657.3	654.7	652.1	649.5	652.1	654.7	657.3
125°	724.4	725.2	726.0	725.2	722.7	720.2	717.8	715.3	717.8	720.2	722.7
127.5°	791.1	792.1	793.0	792.0	788.9	785.7	782.6	779.5	782.6	785.7	788.9
130°	834.5	834.9	835.5	834.1	830.5	827.0	823.4	819.8	823.4	827.0	830.5
132.5°	878.3	878.2	878.2	876.6	873.8	870.8	868.0	865.0	868.0	870.8	873.8
135°	940.4	939.9	939.3	937.5	934.5	931.6	928.5	925.5	928.5	931.6	934.5
137.5°	1002.0	1001.4	1000.6	999.0	996.5	994.1	991.6	989.2	991.6	994.1	996.5
140°	1042.0	1040.6	1039.3	1037.4	1034.9	1032.5	1030.0	1027.5	1030.0	1032.5	1034.9
142.5°	1080.3	1079.3	1078.4	1076.7	1074.2	1071.8	1069.3	1066.9	1069.3	1071.8	1074.2
145°	1136.1	1134.5	1132.9	1131.1	1129.1	1127.2	1125.4	1123.4	1125.4	1127.2	1129.1
147.5°	1186.8	1185.8	1184.7	1183.0	1180.7	1178.4	1176.1	1173.8	1176.1	1178.4	1180.7
150°	1218.3	1217.2	1216.1	1214.8	1213.2	1211.5	1209.8	1208.2	1209.8	1211.5	1213.2
152.5°	1249.4	1248.1	1246.8	1245.3	1243.6	1241.9	1240.3	1238.7	1240.3	1241.9	1243.6
155°	1290.1	1289.3	1288.5	1287.7	1286.9	1286.1	1285.2	1284.4	1285.2	1286.1	1286.9
157.5°	1327.2	1326.7	1326.2	1325.7	1325.2	1324.6	1324.0	1323.5	1324.0	1324.6	1325.2
160°	1350.2	1350.0	1349.7	1349.3	1348.7	1348.2	1347.7	1347.1	1347.7	1348.2	1348.7
162.5°	1369.9	1369.6	1369.4	1369.2	1369.1	1369.0	1368.9	1368.7	1368.9	1369.0	1369.1
165°	1396.3	1396.3	1396.3	1396.4	1396.7	1396.9	1397.3	1397.5	1397.3	1396.9	1396.7
167.5°	1417.8	1417.8	1417.9	1418.3	1419.1	1419.9	1420.7	1421.6	1420.7	1419.9	1419.1
170°	1430.0	1430.3	1430.5	1431.1	1431.9	1432.7	1433.5	1434.4	1433.5	1432.7	1431.9
172.5°	1438.8	1439.2	1439.4	1440.0	1440.8	1441.6	1442.4	1443.2	1442.4	1441.6	1440.8
175°	1448.9	1449.5	1450.1	1450.7	1451.6	1452.4	1453.2	1454.0	1453.2	1452.4	1451.6
177.5°	1454.4	1454.8	1455.3	1455.9	1456.5	1457.2	1457.8	1458.5	1457.8	1457.2	1456.5
180°	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5



TEST NUMBER: P331580-930

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6
2.5°	1389.0	1386.4	1377.4	1372.6	1364.8	1357.5	1352.7	1354.9	1356.6	1355.7	1354.5
5°	1349.2	1339.0	1323.2	1309.7	1300.0	1282.1	1274.6	1270.8	1267.5	1263.7	1260.0
7.5°	1301.9	1285.6	1263.1	1243.8	1225.6	1203.5	1190.8	1183.2	1175.5	1166.9	1159.4
10°	1268.1	1245.4	1221.6	1194.5	1172.9	1152.8	1135.0	1123.1	1112.3	1102.0	1094.5
12.5°	1232.6	1206.4	1177.0	1140.0	1116.1	1087.5	1084.8	1063.8	1046.9	1040.6	1031.7
15°	1176.2	1139.3	1102.0	1058.2	1039.3	1013.3	997.0	980.8	966.2	955.9	953.2
17.5°	1112.0	1064.4	1027.2	995.7	964.7	938.1	923.2	910.2	898.1	884.4	882.6
20°	1063.1	1021.9	981.4	953.7	921.9	894.8	876.4	863.4	853.1	845.1	838.0
22.5°	1016.8	971.8	934.6	904.4	872.9	851.1	836.6	824.0	815.5	806.5	799.9
25°	942.4	907.3	866.7	832.6	806.6	792.6	780.6	769.8	764.4	758.5	750.9
27.5°	877.3	838.3	800.4	774.0	751.1	738.7	730.3	722.8	717.8	714.3	710.0
30°	831.5	792.0	762.2	736.3	717.4	704.9	699.5	695.2	689.3	687.1	684.9
32.5°	787.3	751.8	726.4	703.8	685.7	677.7	672.7	668.8	664.1	661.9	657.6
35°	725.0	695.2	670.3	657.9	643.3	636.2	632.4	627.0	622.6	620.5	620.0
37.5°	666.2	640.3	623.9	608.0	601.8	597.5	592.3	588.6	587.3	586.9	586.4
40°	628.1	607.0	592.4	579.4	576.7	570.2	565.9	562.6	562.6	563.2	562.6
42.5°	593.5	574.5	561.7	550.4	547.2	543.4	539.1	538.8	539.7	541.5	539.7
45°	541.0	527.5	518.3	512.8	506.9	503.1	502.6	504.2	504.8	505.3	506.9
47.5°	492.8	483.7	475.4	469.4	466.8	466.2	465.5	468.4	471.0	472.0	474.4
50°	464.1	453.9	446.9	443.0	440.9	439.9	440.9	444.2	446.3	449.0	450.6
52.5°	432.1	424.9	420.0	417.1	416.2	416.9	417.1	420.8	424.3	425.2	426.0
55°	387.9	382.5	381.4	376.5	378.7	378.1	380.8	383.0	386.3	389.6	390.0
57.5°	343.7	339.4	336.5	337.0	337.6	340.0	342.3	346.0	349.5	352.9	353.3
60°	314.3	312.2	310.5	310.5	311.6	314.9	317.6	321.3	323.5	325.7	327.3
62.5°	287.5	285.4	283.7	284.5	287.4	289.3	292.4	294.5	296.7	298.8	299.6
65°	245.1	244.0	245.6	246.7	247.2	250.0	253.7	255.4	257.5	258.6	262.4
67.5°	206.0	206.2	206.0	207.5	210.7	211.3	214.9	218.7	219.1	221.2	223.6
70°	179.6	180.7	181.8	182.9	185.6	186.6	189.3	190.9	193.1	194.8	196.4
72.5°	155.4	155.6	156.7	156.5	158.7	161.1	163.4	165.0	167.1	169.3	170.8
75°	119.5	119.5	120.7	121.2	123.9	126.6	126.0	127.1	129.3	131.4	132.6
77.5°	87.3	86.1	87.3	87.9	88.7	91.0	91.4	92.9	95.4	94.7	95.9
80°	66.5	64.9	66.5	67.1	67.1	69.8	69.8	70.8	72.5	70.8	72.5
82.5°	47.5	46.7	47.9	48.0	48.9	49.0	49.9	50.1	51.7	51.0	51.7
85°	23.8	23.2	23.8	23.2	23.8	24.4	24.4	23.8	23.8	24.9	23.2
87.5°	10.2	10.8	11.5	12.7	13.5	14.3	13.7	13.6	13.5	12.5	12.5
90°	14.3	19.0	25.0	31.0	37.0	43.0	42.5	41.9	41.4	40.8	40.7
92.5°	31.5	33.4	34.8	36.3	37.7	39.1	39.2	39.3	39.4	39.5	39.6
95°	74.8	76.5	77.0	77.5	78.1	78.7	78.7	78.7	78.7	78.7	78.4
97.5°	126.4	128.1	129.1	130.2	131.2	132.2	132.2	132.2	132.2	132.2	132.2
100°	164.9	166.3	167.1	168.0	168.8	169.6	169.6	169.6	169.6	169.6	169.5
102.5°	204.4	205.8	206.8	207.8	208.9	209.9	210.2	210.3	210.6	210.8	210.8
105°	267.5	268.2	268.8	269.3	269.9	270.4	270.9	271.5	272.1	272.6	272.9
107.5°	336.4	337.0	337.0	337.0	337.0	337.0	337.2	337.5	337.7	337.9	337.4
110°	381.4	382.3	382.3	382.3	382.3	382.3	382.3	382.3	382.3	382.3	381.8



TEST NUMBER: P331580-930

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	428.6	429.3	429.1	428.9	428.7	428.4	427.8	427.1	426.5	425.8	425.2
115°	498.2	498.7	498.2	497.7	497.1	496.6	496.3	496.0	495.7	495.5	494.9
117.5°	569.7	570.1	568.5	567.0	565.4	563.9	563.3	562.6	562.0	561.3	560.5
120°	616.0	616.0	613.8	611.6	609.4	607.2	607.2	607.2	607.2	607.2	606.7
122.5°	660.0	660.5	659.0	657.5	655.9	654.4	653.7	653.1	652.4	651.8	651.1
125°	725.2	726.0	725.2	724.4	723.6	722.7	721.9	721.1	720.2	719.4	718.9
127.5°	792.0	793.0	792.1	791.1	790.1	789.1	788.1	787.1	786.1	785.1	784.2
130°	834.1	835.5	834.9	834.5	833.9	833.3	832.8	832.3	831.7	831.1	830.3
132.5°	876.6	878.2	878.2	878.3	878.5	878.6	877.3	876.2	875.0	873.8	872.7
135°	937.5	939.3	939.9	940.4	940.9	941.5	941.3	940.9	940.7	940.4	939.9
137.5°	999.0	1000.6	1001.4	1002.0	1002.7	1003.5	1003.2	1003.0	1002.8	1002.6	1001.9
140°	1037.4	1039.3	1040.6	1042.0	1043.4	1044.7	1044.7	1044.7	1044.7	1044.7	1044.2
142.5°	1076.7	1078.4	1079.3	1080.3	1081.2	1082.1	1082.3	1082.6	1082.8	1083.0	1082.6
145°	1131.1	1132.9	1134.5	1136.1	1137.8	1139.4	1139.6	1140.0	1140.2	1140.4	1140.0
147.5°	1183.0	1184.7	1185.8	1186.8	1188.0	1189.0	1189.7	1190.3	1190.8	1191.5	1191.2
150°	1214.8	1216.1	1217.2	1218.3	1219.4	1220.5	1221.3	1222.1	1222.9	1223.8	1223.8
152.5°	1245.3	1246.8	1248.1	1249.4	1250.7	1252.0	1253.0	1254.0	1255.1	1256.1	1256.1
155°	1287.7	1288.5	1289.3	1290.1	1290.9	1291.8	1293.1	1294.5	1295.9	1297.2	1297.5
157.5°	1325.7	1326.2	1326.7	1327.2	1327.7	1328.2	1330.0	1331.9	1333.7	1335.6	1335.9
160°	1349.3	1349.7	1350.0	1350.2	1350.5	1350.8	1352.4	1354.0	1355.7	1357.3	1357.6
162.5°	1369.2	1369.4	1369.6	1369.9	1370.2	1370.4	1372.3	1374.2	1376.1	1377.9	1378.2
165°	1396.4	1396.3	1396.3	1396.3	1396.3	1396.3	1398.2	1400.1	1402.0	1403.9	1404.2
167.5°	1418.3	1417.9	1417.8	1417.8	1417.7	1417.6	1419.6	1421.5	1423.4	1425.3	1425.6
170°	1431.1	1430.5	1430.3	1430.0	1429.7	1429.5	1431.3	1433.3	1435.2	1437.1	1437.2
172.5°	1440.0	1439.4	1439.2	1438.8	1438.6	1438.3	1440.2	1442.1	1444.1	1445.9	1446.1
175°	1450.7	1450.1	1449.5	1448.9	1448.5	1447.9	1449.8	1451.7	1453.6	1455.6	1455.7
177.5°	1455.9	1455.3	1454.8	1454.4	1454.0	1453.5	1454.8	1456.2	1457.5	1458.8	1458.8
180°	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5



TEST NUMBER: P331580-930

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6
2.5°	1350.1	1349.2	1349.2	1345.3	1349.2	1349.2	1350.1	1354.5	1355.7	1356.6	1354.9
5°	1252.4	1250.8	1248.1	1250.8	1248.1	1250.8	1252.4	1260.0	1263.7	1267.5	1270.8
7.5°	1155.8	1149.2	1148.3	1141.9	1148.3	1149.2	1155.8	1159.4	1166.9	1175.5	1183.2
10°	1085.2	1080.9	1080.4	1070.1	1080.4	1080.9	1085.2	1094.5	1102.0	1112.3	1123.1
12.5°	1031.6	1021.2	1023.2	1017.2	1023.2	1021.2	1031.6	1031.7	1040.6	1046.9	1063.8
15°	938.7	938.7	936.5	927.2	936.5	938.7	938.7	953.2	955.9	966.2	980.8
17.5°	871.9	870.7	865.6	868.2	865.6	870.7	871.9	882.6	884.4	898.1	910.2
20°	832.0	828.8	822.3	822.3	822.3	828.8	832.0	838.0	845.1	853.1	863.4
22.5°	794.4	794.2	787.3	789.4	787.3	794.2	794.4	799.9	806.5	815.5	824.0
25°	750.3	746.0	742.8	744.4	742.8	746.0	750.3	750.9	758.5	764.4	769.8
27.5°	708.6	706.2	706.0	701.6	706.0	706.2	708.6	710.0	714.3	717.8	722.8
30°	684.4	679.0	680.0	677.4	680.0	679.0	684.4	684.9	687.1	689.3	695.2
32.5°	656.6	654.7	653.6	651.3	653.6	654.7	656.6	657.6	661.9	664.1	668.8
35°	618.9	619.5	616.7	617.8	616.7	619.5	618.9	620.0	620.5	622.6	627.0
37.5°	585.9	587.6	586.4	586.7	586.4	587.6	585.9	586.4	586.9	587.3	588.6
40°	564.3	564.3	564.3	565.9	564.3	564.3	564.3	562.6	563.2	562.6	562.6
42.5°	543.5	542.6	541.8	541.6	541.8	542.6	543.5	539.7	541.5	539.7	538.8
45°	508.0	509.6	510.1	507.4	510.1	509.6	508.0	506.9	505.3	504.8	504.2
47.5°	475.9	476.1	475.9	478.3	475.9	476.1	475.9	474.4	472.0	471.0	468.4
50°	453.4	452.2	453.4	452.2	453.4	452.2	453.4	450.6	449.0	446.3	444.2
52.5°	429.6	429.7	429.1	428.9	429.1	429.7	429.6	426.0	425.2	424.3	420.8
55°	392.2	393.3	392.7	392.7	392.7	393.3	392.2	390.0	389.6	386.3	383.0
57.5°	353.6	354.6	355.3	352.9	355.3	354.6	353.6	353.3	352.9	349.5	346.0
60°	326.8	329.5	328.9	327.8	328.9	329.5	326.8	327.3	325.7	323.5	321.3
62.5°	302.1	303.0	303.0	302.7	303.0	303.0	302.1	299.6	298.8	296.7	294.5
65°	264.0	265.1	263.4	265.1	263.4	265.1	264.0	262.4	258.6	257.5	255.4
67.5°	223.0	223.3	224.5	225.3	224.5	223.3	223.0	223.6	221.2	219.1	218.7
70°	197.5	196.9	198.5	200.2	198.5	196.9	197.5	196.4	194.8	193.1	190.9
72.5°	170.6	171.8	171.3	172.4	171.3	171.8	170.6	170.8	169.3	167.1	165.0
75°	131.4	133.1	132.6	134.2	132.6	133.1	131.4	132.6	131.4	129.3	127.1
77.5°	95.0	95.2	95.0	95.9	95.0	95.2	95.0	95.9	94.7	95.4	92.9
80°	72.5	71.4	70.4	72.5	70.4	71.4	72.5	72.5	70.8	72.5	70.8
82.5°	50.4	51.0	50.0	50.0	50.0	51.0	50.4	51.7	51.0	51.7	50.1
85°	23.2	22.7	21.6	21.6	21.6	22.7	23.2	23.2	24.9	23.8	23.8
87.5°	12.6	12.1	12.2	11.8	12.2	12.1	12.6	12.5	12.5	13.5	13.6
90°	41.0	41.3	41.5	41.8	41.5	41.3	41.0	40.7	40.8	41.4	41.9
92.5°	39.6	39.7	39.8	39.8	39.8	39.7	39.6	39.6	39.5	39.4	39.3
95°	77.9	77.3	76.7	76.2	76.7	77.3	77.9	78.4	78.7	78.7	78.7
97.5°	132.2	132.1	132.1	132.0	132.1	132.1	132.2	132.2	132.2	132.2	132.2
100°	169.2	168.9	168.7	168.4	168.7	168.9	169.2	169.5	169.6	169.6	169.6
102.5°	210.5	210.3	209.9	209.7	209.9	210.3	210.5	210.8	210.8	210.6	210.3
105°	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.6	272.1	271.5
107.5°	336.1	334.8	333.6	332.3	333.6	334.8	336.1	337.4	337.9	337.7	337.5
110°	381.0	380.2	379.4	378.5	379.4	380.2	381.0	381.8	382.3	382.3	382.3



TEST NUMBER: P331580-930

CATALOG NUMBER: S122DIW-S865D1440U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	424.6	424.0	423.4	422.8	423.4	424.0	424.6	425.2	425.8	426.5	427.1
115°	494.1	493.3	492.4	491.6	492.4	493.3	494.1	494.9	495.5	495.7	496.0
117.5°	559.7	558.9	558.1	557.3	558.1	558.9	559.7	560.5	561.3	562.0	562.6
120°	605.9	605.1	604.3	603.5	604.3	605.1	605.9	606.7	607.2	607.2	607.2
122.5°	650.5	650.0	649.3	648.7	649.3	650.0	650.5	651.1	651.8	652.4	653.1
125°	718.6	718.4	718.1	717.8	718.1	718.4	718.6	718.9	719.4	720.2	721.1
127.5°	783.3	782.4	781.6	780.7	781.6	782.4	783.3	784.2	785.1	786.1	787.1
130°	829.2	828.2	827.0	826.0	827.0	828.2	829.2	830.3	831.1	831.7	832.3
132.5°	871.9	871.0	870.1	869.2	870.1	871.0	871.9	872.7	873.8	875.0	876.2
135°	939.1	938.2	937.4	936.6	937.4	938.2	939.1	939.9	940.4	940.7	940.9
137.5°	1000.9	999.7	998.7	997.5	998.7	999.7	1000.9	1001.9	1002.6	1002.8	1003.0
140°	1043.1	1042.0	1040.9	1039.8	1040.9	1042.0	1043.1	1044.2	1044.7	1044.7	1044.7
142.5°	1081.5	1080.4	1079.3	1078.2	1079.3	1080.4	1081.5	1082.6	1083.0	1082.8	1082.6
145°	1139.0	1137.9	1136.8	1135.7	1136.8	1137.9	1139.0	1140.0	1140.4	1140.2	1140.0
147.5°	1190.2	1189.1	1188.1	1187.1	1188.1	1189.1	1190.2	1191.2	1191.5	1190.8	1190.3
150°	1222.9	1222.1	1221.3	1220.5	1221.3	1222.1	1222.9	1223.8	1223.8	1222.9	1222.1
152.5°	1255.1	1254.0	1253.0	1252.0	1253.0	1254.0	1255.1	1256.1	1256.1	1255.1	1254.0
155°	1296.7	1295.9	1295.1	1294.3	1295.1	1295.9	1296.7	1297.5	1297.2	1295.9	1294.5
157.5°	1334.6	1333.3	1332.0	1330.6	1332.0	1333.3	1334.6	1335.9	1335.6	1333.7	1331.9
160°	1356.5	1355.4	1354.4	1353.2	1354.4	1355.4	1356.5	1357.6	1357.3	1355.7	1354.0
162.5°	1376.9	1375.6	1374.3	1372.9	1374.3	1375.6	1376.9	1378.2	1377.9	1376.1	1374.2
165°	1402.8	1401.5	1400.1	1398.7	1400.1	1401.5	1402.8	1404.2	1403.9	1402.0	1400.1
167.5°	1424.2	1422.7	1421.3	1419.8	1421.3	1422.7	1424.2	1425.6	1425.3	1423.4	1421.5
170°	1435.6	1433.9	1432.3	1430.7	1432.3	1433.9	1435.6	1437.2	1437.1	1435.2	1433.3
172.5°	1444.5	1442.8	1441.2	1439.6	1441.2	1442.8	1444.5	1446.1	1445.9	1444.1	1442.1
175°	1454.0	1452.4	1450.7	1449.1	1450.7	1452.4	1454.0	1455.7	1455.6	1453.6	1451.7
177.5°	1457.5	1456.2	1454.8	1453.5	1454.8	1456.2	1457.5	1458.8	1458.8	1457.5	1456.2
180°	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5



TEST NUMBER: P331580-930

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6
2.5°	1352.7	1357.5	1364.8	1372.6	1377.4	1386.4	1389.0	1393.3	1397.3	1406.4	1415.8
5°	1274.6	1282.1	1300.0	1309.7	1323.2	1339.0	1349.2	1360.1	1372.0	1392.5	1411.4
7.5°	1190.8	1203.5	1225.6	1243.8	1263.1	1285.6	1301.9	1323.2	1341.0	1370.0	1397.7
10°	1135.0	1152.8	1172.9	1194.5	1221.6	1245.4	1268.1	1295.1	1316.8	1351.4	1383.9
12.5°	1084.8	1087.5	1116.1	1140.0	1177.0	1206.4	1232.6	1267.5	1288.7	1329.8	1363.9
15°	997.0	1013.3	1039.3	1058.2	1102.0	1139.3	1176.2	1212.4	1236.7	1287.5	1332.4
17.5°	923.2	938.1	964.7	995.7	1027.2	1064.4	1112.0	1150.1	1183.2	1241.4	1294.5
20°	876.4	894.8	921.9	953.7	981.4	1021.9	1063.1	1106.9	1142.6	1208.0	1270.2
22.5°	836.6	851.1	872.9	904.4	934.6	971.8	1016.8	1064.5	1101.9	1172.6	1235.6
25°	780.6	792.6	806.6	832.6	866.7	907.3	942.4	994.9	1049.5	1115.5	1191.8
27.5°	730.3	738.7	751.1	774.0	800.4	838.3	877.3	927.2	982.1	1053.8	1134.2
30°	699.5	704.9	717.4	736.3	762.2	792.0	831.5	879.1	935.4	1007.9	1087.9
32.5°	672.7	677.7	685.7	703.8	726.4	751.8	787.3	834.9	888.6	959.9	1048.6
35°	632.4	636.2	643.3	657.9	670.3	695.2	725.0	768.2	818.5	886.7	978.7
37.5°	592.3	597.5	601.8	608.0	623.9	640.3	666.2	702.7	752.1	820.9	908.6
40°	565.9	570.2	576.7	579.4	592.4	607.0	628.1	661.6	711.4	774.1	859.7
42.5°	539.1	543.4	547.2	550.4	561.7	574.5	593.5	622.2	666.4	727.4	812.0
45°	502.6	503.1	506.9	512.8	518.3	527.5	541.0	565.9	600.0	657.3	734.1
47.5°	465.5	466.2	466.8	469.4	475.4	483.7	492.8	513.0	543.5	589.2	664.0
50°	440.9	439.9	440.9	443.0	446.9	453.9	464.1	478.7	503.7	546.4	615.1
52.5°	417.1	416.9	416.2	417.1	420.0	424.9	432.1	444.6	466.8	506.1	566.6
55°	380.8	378.1	378.7	376.5	381.4	382.5	387.9	398.2	417.7	444.7	501.5
57.5°	342.3	340.0	337.6	337.0	336.5	339.4	343.7	351.9	366.8	390.4	436.6
60°	317.6	314.9	311.6	310.5	310.5	312.2	314.3	320.2	334.4	355.5	393.3
62.5°	292.4	289.3	287.4	284.5	283.7	285.4	287.5	291.7	301.9	321.6	354.3
65°	253.7	250.0	247.2	246.7	245.6	244.0	245.1	249.4	257.5	273.2	299.1
67.5°	214.9	211.3	210.7	207.5	206.0	206.2	206.0	209.7	214.6	228.1	247.4
70°	189.3	186.6	185.6	182.9	181.8	180.7	179.6	182.9	187.8	199.1	215.9
72.5°	163.4	161.1	158.7	156.5	156.7	155.6	155.4	157.4	161.3	171.8	184.7
75°	126.0	126.6	123.9	121.2	120.7	119.5	119.5	121.2	122.8	130.9	141.2
77.5°	91.4	91.0	88.7	87.9	87.3	86.1	87.3	88.4	89.3	94.7	102.2
80°	69.8	69.8	67.1	67.1	66.5	64.9	66.5	65.5	67.6	73.1	78.4
82.5°	49.9	49.0	48.9	48.0	47.9	46.7	47.5	48.6	49.4	53.2	56.3
85°	24.4	24.4	23.8	23.2	23.8	23.2	23.8	24.4	24.9	26.5	29.2
87.5°	13.7	14.3	13.5	12.7	11.5	10.8	10.2	10.0	10.2	10.0	9.8
90°	42.5	43.0	37.0	31.0	25.0	19.0	14.3	11.1	7.7	4.5	1.2
92.5°	39.2	39.1	37.7	36.3	34.8	33.4	31.5	29.1	26.7	24.3	21.9
95°	78.7	78.7	78.1	77.5	77.0	76.5	74.8	72.1	69.4	66.6	63.9
97.5°	132.2	132.2	131.2	130.2	129.1	128.1	126.4	124.0	121.6	119.2	116.8
100°	169.6	169.6	168.8	168.0	167.1	166.3	164.9	162.7	160.5	158.2	156.1
102.5°	210.2	209.9	208.9	207.8	206.8	205.8	204.4	202.6	200.9	199.2	197.4
105°	270.9	270.4	269.9	269.3	268.8	268.2	267.5	266.7	265.9	265.1	264.2
107.5°	337.2	337.0	337.0	337.0	337.0	337.0	336.4	335.3	334.0	332.8	331.6
110°	382.3	382.3	382.3	382.3	382.3	382.3	381.4	379.8	378.1	376.5	374.9



TEST NUMBER: P331580-930

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	427.8	428.4	428.7	428.9	429.1	429.3	428.6	427.0	425.3	423.7	422.1
115°	496.3	496.6	497.1	497.7	498.2	498.7	498.2	496.6	494.9	493.3	491.6
117.5°	563.3	563.9	565.4	567.0	568.5	570.1	569.7	567.5	565.3	563.1	561.0
120°	607.2	607.2	609.4	611.6	613.8	616.0	616.0	613.8	611.6	609.4	607.2
122.5°	653.7	654.4	655.9	657.5	659.0	660.5	660.0	657.3	654.7	652.1	649.5
125°	721.9	722.7	723.6	724.4	725.2	726.0	725.2	722.7	720.2	717.8	715.3
127.5°	788.1	789.1	790.1	791.1	792.1	793.0	792.0	788.9	785.7	782.6	779.5
130°	832.8	833.3	833.9	834.5	834.9	835.5	834.1	830.5	827.0	823.4	819.8
132.5°	877.3	878.6	878.5	878.3	878.2	878.2	876.6	873.8	870.8	868.0	865.0
135°	941.3	941.5	940.9	940.4	939.9	939.3	937.5	934.5	931.6	928.5	925.5
137.5°	1003.2	1003.5	1002.7	1002.0	1001.4	1000.6	999.0	996.5	994.1	991.6	989.2
140°	1044.7	1044.7	1043.4	1042.0	1040.6	1039.3	1037.4	1034.9	1032.5	1030.0	1027.5
142.5°	1082.3	1082.1	1081.2	1080.3	1079.3	1078.4	1076.7	1074.2	1071.8	1069.3	1066.9
145°	1139.6	1139.4	1137.8	1136.1	1134.5	1132.9	1131.1	1129.1	1127.2	1125.4	1123.4
147.5°	1189.7	1189.0	1188.0	1186.8	1185.8	1184.7	1183.0	1180.7	1178.4	1176.1	1173.8
150°	1221.3	1220.5	1219.4	1218.3	1217.2	1216.1	1214.8	1213.2	1211.5	1209.8	1208.2
152.5°	1253.0	1252.0	1250.7	1249.4	1248.1	1246.8	1245.3	1243.6	1241.9	1240.3	1238.7
155°	1293.1	1291.8	1290.9	1290.1	1289.3	1288.5	1287.7	1286.9	1286.1	1285.2	1284.4
157.5°	1330.0	1328.2	1327.7	1327.2	1326.7	1326.2	1325.7	1325.2	1324.6	1324.0	1323.5
160°	1352.4	1350.8	1350.5	1350.2	1350.0	1349.7	1349.3	1348.7	1348.2	1347.7	1347.1
162.5°	1372.3	1370.4	1370.2	1369.9	1369.6	1369.4	1369.2	1369.1	1369.0	1368.9	1368.7
165°	1398.2	1396.3	1396.3	1396.3	1396.3	1396.3	1396.4	1396.7	1396.9	1397.3	1397.5
167.5°	1419.6	1417.6	1417.7	1417.8	1417.8	1417.9	1418.3	1419.1	1419.9	1420.7	1421.6
170°	1431.3	1429.5	1429.7	1430.0	1430.3	1430.5	1431.1	1431.9	1432.7	1433.5	1434.4
172.5°	1440.2	1438.3	1438.6	1438.8	1439.2	1439.4	1440.0	1440.8	1441.6	1442.4	1443.2
175°	1449.8	1447.9	1448.5	1448.9	1449.5	1450.1	1450.7	1451.6	1452.4	1453.2	1454.0
177.5°	1454.8	1453.5	1454.0	1454.4	1454.8	1455.3	1455.9	1456.5	1457.2	1457.8	1458.5
180°	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6
2.5°	1415.0	1417.2	1424.1	1431.0	1438.8	1441.0	1444.5	1441.4	1440.6	1448.8	1454.8
5°	1419.0	1428.7	1447.7	1465.0	1479.6	1489.9	1500.7	1505.0	1513.1	1524.5	1538.6
7.5°	1414.5	1433.4	1463.1	1488.4	1515.9	1535.6	1551.1	1564.3	1580.4	1601.9	1625.4
10°	1409.2	1434.7	1471.0	1501.8	1535.3	1560.7	1581.8	1602.4	1626.2	1656.0	1686.8
12.5°	1399.8	1430.0	1475.3	1511.7	1554.8	1579.8	1608.3	1652.6	1678.1	1719.6	1763.0
15°	1380.6	1414.1	1477.4	1522.3	1571.0	1618.6	1671.1	1713.4	1755.5	1779.9	1841.0
17.5°	1352.2	1401.4	1471.5	1523.9	1585.8	1660.8	1719.7	1767.5	1816.2	1855.7	1886.4
20°	1329.2	1382.7	1462.8	1525.6	1599.1	1679.8	1747.4	1796.1	1838.3	1871.3	1890.2
22.5°	1300.2	1367.6	1445.5	1519.1	1613.0	1692.7	1763.8	1802.1	1837.4	1853.5	1860.8
25°	1254.6	1335.7	1423.9	1513.7	1619.8	1704.1	1769.0	1792.3	1802.5	1786.9	1760.9
27.5°	1205.3	1295.8	1398.9	1503.5	1615.6	1696.7	1743.3	1739.6	1722.2	1671.4	1630.8
30°	1168.6	1268.1	1379.0	1493.1	1605.7	1684.7	1711.7	1684.7	1645.1	1588.4	1530.5
32.5°	1130.0	1233.1	1357.8	1478.4	1587.5	1656.9	1662.8	1616.2	1555.1	1490.5	1418.4
35°	1071.7	1183.2	1317.8	1445.5	1548.8	1592.7	1566.7	1484.5	1412.0	1323.8	1225.3
37.5°	1005.8	1128.9	1264.0	1397.3	1490.9	1502.4	1437.9	1351.4	1249.1	1145.5	1029.6
40°	956.5	1086.9	1225.9	1360.6	1443.3	1431.4	1349.2	1254.0	1132.3	1005.7	898.1
42.5°	912.3	1042.7	1184.3	1316.5	1382.7	1350.1	1254.0	1137.2	1006.3	887.1	788.6
45°	835.8	970.0	1115.0	1242.7	1280.5	1221.6	1094.5	964.6	835.8	736.3	658.4
47.5°	761.6	894.2	1037.8	1150.1	1163.4	1084.1	945.2	811.6	700.9	619.9	564.9
50°	707.1	840.2	982.4	1082.6	1078.2	982.4	839.6	712.5	620.0	554.5	517.7
52.5°	658.2	783.9	920.6	1011.5	988.6	884.2	747.9	635.0	559.0	507.8	474.4
55°	582.1	698.4	828.3	901.3	859.1	743.3	628.1	537.2	480.9	442.5	416.5
57.5°	506.5	615.6	726.8	771.8	725.1	618.2	522.2	456.2	413.9	385.5	368.6
60°	459.8	555.1	654.0	693.0	637.3	542.1	466.4	407.4	373.2	350.0	334.8
62.5°	413.1	498.4	591.7	612.9	562.0	481.5	414.4	365.4	337.4	316.7	302.4
65°	349.5	419.2	490.2	504.2	457.1	394.9	341.9	310.0	285.1	269.9	258.6
67.5°	286.6	342.7	392.9	404.2	363.0	319.8	281.5	253.7	236.8	224.3	214.7
70°	249.4	293.8	334.8	344.1	311.0	272.6	243.4	221.3	206.1	195.3	186.1
72.5°	210.0	247.0	281.2	287.4	260.4	231.1	207.1	189.6	176.3	169.3	160.5
75°	160.7	182.3	208.8	210.4	192.6	174.7	156.4	145.0	137.9	129.3	125.0
77.5°	113.4	130.4	145.5	148.5	137.9	125.7	115.4	106.5	100.5	96.5	92.5
80°	86.6	100.1	106.6	110.4	102.8	94.2	88.2	82.3	78.4	75.7	73.1
82.5°	61.9	70.2	76.3	79.2	75.1	69.9	63.9	60.6	57.6	55.4	54.5
85°	31.4	35.1	39.0	40.0	39.0	36.8	33.5	33.5	31.9	31.4	31.4
87.5°	11.7	14.1	14.8	16.7	16.8	18.0	19.2	20.0	20.7	20.2	19.6
90°	4.5	7.7	11.1	14.3	19.0	25.0	31.0	37.0	43.0	42.5	41.9
92.5°	24.3	26.7	29.1	31.5	33.4	34.8	36.3	37.7	39.1	39.2	39.3
95°	66.6	69.4	72.1	74.8	76.5	77.0	77.5	78.1	78.7	78.7	78.7
97.5°	119.2	121.6	124.0	126.4	128.1	129.1	130.2	131.2	132.2	132.2	132.2
100°	158.2	160.5	162.7	164.9	166.3	167.1	168.0	168.8	169.6	169.6	169.6
102.5°	199.2	200.9	202.6	204.4	205.8	206.8	207.8	208.9	209.9	210.2	210.3
105°	265.1	265.9	266.7	267.5	268.2	268.8	269.3	269.9	270.4	270.9	271.5
107.5°	332.8	334.0	335.3	336.4	337.0	337.0	337.0	337.0	337.0	337.2	337.5
110°	376.5	378.1	379.8	381.4	382.3	382.3	382.3	382.3	382.3	382.3	382.3





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	423.7	425.3	427.0	428.6	429.3	429.1	428.9	428.7	428.4	427.8	427.1
115°	493.3	494.9	496.6	498.2	498.7	498.2	497.7	497.1	496.6	496.3	496.0
117.5°	563.1	565.3	567.5	569.7	570.1	568.5	567.0	565.4	563.9	563.3	562.6
120°	609.4	611.6	613.8	616.0	616.0	613.8	611.6	609.4	607.2	607.2	607.2
122.5°	652.1	654.7	657.3	660.0	660.5	659.0	657.5	655.9	654.4	653.7	653.1
125°	717.8	720.2	722.7	725.2	726.0	725.2	724.4	723.6	722.7	721.9	721.1
127.5°	782.6	785.7	788.9	792.0	793.0	792.1	791.1	790.1	789.1	788.1	787.1
130°	823.4	827.0	830.5	834.1	835.5	834.9	834.5	833.9	833.3	832.8	832.3
132.5°	868.0	870.8	873.8	876.6	878.2	878.2	878.3	878.5	878.6	877.3	876.2
135°	928.5	931.6	934.5	937.5	939.3	939.9	940.4	940.9	941.5	941.3	940.9
137.5°	991.6	994.1	996.5	999.0	1000.6	1001.4	1002.0	1002.7	1003.5	1003.2	1003.0
140°	1030.0	1032.5	1034.9	1037.4	1039.3	1040.6	1042.0	1043.4	1044.7	1044.7	1044.7
142.5°	1069.3	1071.8	1074.2	1076.7	1078.4	1079.3	1080.3	1081.2	1082.1	1082.3	1082.6
145°	1125.4	1127.2	1129.1	1131.1	1132.9	1134.5	1136.1	1137.8	1139.4	1139.6	1140.0
147.5°	1176.1	1178.4	1180.7	1183.0	1184.7	1185.8	1186.8	1188.0	1189.0	1189.7	1190.3
150°	1209.8	1211.5	1213.2	1214.8	1216.1	1217.2	1218.3	1219.4	1220.5	1221.3	1222.1
152.5°	1240.3	1241.9	1243.6	1245.3	1246.8	1248.1	1249.4	1250.7	1252.0	1253.0	1254.0
155°	1285.2	1286.1	1286.9	1287.7	1288.5	1289.3	1290.1	1290.9	1291.8	1293.1	1294.5
157.5°	1324.0	1324.6	1325.2	1325.7	1326.2	1326.7	1327.2	1327.7	1328.2	1330.0	1331.9
160°	1347.7	1348.2	1348.7	1349.3	1349.7	1350.0	1350.2	1350.5	1350.8	1352.4	1354.0
162.5°	1368.9	1369.0	1369.1	1369.2	1369.4	1369.6	1369.9	1370.2	1370.4	1372.3	1374.2
165°	1397.3	1396.9	1396.7	1396.4	1396.3	1396.3	1396.3	1396.3	1396.3	1398.2	1400.1
167.5°	1420.7	1419.9	1419.1	1418.3	1417.9	1417.8	1417.8	1417.7	1417.6	1419.6	1421.5
170°	1433.5	1432.7	1431.9	1431.1	1430.5	1430.3	1430.0	1429.7	1429.5	1431.3	1433.3
172.5°	1442.4	1441.6	1440.8	1440.0	1439.4	1439.2	1438.8	1438.6	1438.3	1440.2	1442.1
175°	1453.2	1452.4	1451.6	1450.7	1450.1	1449.5	1448.9	1448.5	1447.9	1449.8	1451.7
177.5°	1457.8	1457.2	1456.5	1455.9	1455.3	1454.8	1454.4	1454.0	1453.5	1454.8	1456.2
180°	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6
2.5°	1460.0	1466.1	1466.1	1467.0	1473.9	1473.0	1472.6
5°	1553.7	1562.9	1564.0	1573.8	1580.2	1578.1	1572.1
7.5°	1642.1	1659.2	1672.2	1679.4	1688.0	1693.3	1690.9
10°	1712.2	1737.1	1752.2	1762.5	1775.0	1784.2	1780.9
12.5°	1775.9	1805.5	1826.3	1843.9	1845.5	1857.3	1849.3
15°	1875.1	1906.4	1909.7	1922.6	1933.0	1931.9	1932.4
17.5°	1907.9	1917.9	1919.9	1920.3	1920.4	1916.6	1908.4
20°	1896.1	1892.4	1883.2	1876.2	1863.7	1862.1	1851.3
22.5°	1840.8	1828.8	1805.7	1790.5	1771.1	1766.0	1763.0
25°	1731.7	1705.2	1668.4	1633.2	1623.5	1604.6	1610.0
27.5°	1582.1	1540.8	1500.9	1472.3	1446.5	1418.1	1426.3
30°	1476.9	1430.4	1374.1	1330.8	1303.3	1276.2	1271.3
32.5°	1351.4	1283.2	1220.5	1182.3	1140.1	1123.0	1104.2
35°	1135.0	1068.4	1006.2	952.7	921.9	898.1	876.4
37.5°	940.4	863.7	813.5	770.1	747.9	734.3	737.7
40°	819.6	752.5	715.8	682.7	662.2	652.4	654.6
42.5°	721.8	671.6	641.3	618.6	604.1	598.8	597.5
45°	610.7	582.6	557.7	544.8	537.8	531.8	528.0
47.5°	535.0	512.1	498.1	490.3	484.2	478.1	478.0
50°	489.6	474.4	464.7	456.6	451.8	447.4	451.2
52.5°	454.9	441.2	431.4	424.1	422.3	418.4	418.3
55°	403.6	392.7	385.7	379.2	376.0	373.8	371.1
57.5°	356.9	346.6	340.1	336.0	329.8	327.6	326.8
60°	323.5	315.4	308.9	303.5	300.8	296.4	296.4
62.5°	292.8	284.7	278.6	274.5	270.0	268.3	268.8
65°	248.3	241.8	235.9	231.5	230.5	227.2	228.3
67.5°	207.4	203.1	196.8	194.4	192.4	190.6	189.3
70°	180.2	175.9	172.6	169.3	167.7	167.7	167.7
72.5°	157.2	152.1	150.1	145.9	146.9	145.2	143.5
75°	121.7	118.5	116.8	115.2	112.5	112.5	112.5
77.5°	89.6	88.6	86.7	85.0	84.3	83.7	84.0
80°	69.2	68.7	67.6	67.6	66.5	66.0	64.9
82.5°	53.2	51.9	51.2	50.7	50.5	50.4	50.2
85°	30.3	29.2	29.2	29.8	28.7	28.7	29.2
87.5°	20.0	19.8	19.4	19.5	20.0	19.6	19.6
90°	41.4	40.8	40.7	41.0	41.3	41.5	41.8
92.5°	39.4	39.5	39.6	39.6	39.7	39.8	39.8
95°	78.7	78.7	78.4	77.9	77.3	76.7	76.2
97.5°	132.2	132.2	132.2	132.2	132.1	132.1	132.0
100°	169.6	169.6	169.5	169.2	168.9	168.7	168.4
102.5°	210.6	210.8	210.8	210.5	210.3	209.9	209.7
105°	272.1	272.6	272.9	272.9	272.9	272.9	272.9
107.5°	337.7	337.9	337.4	336.1	334.8	333.6	332.3
110°	382.3	382.3	381.8	381.0	380.2	379.4	378.5



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	426.5	425.8	425.2	424.6	424.0	423.4	422.8
115°	495.7	495.5	494.9	494.1	493.3	492.4	491.6
117.5°	562.0	561.3	560.5	559.7	558.9	558.1	557.3
120°	607.2	607.2	606.7	605.9	605.1	604.3	603.5
122.5°	652.4	651.8	651.1	650.5	650.0	649.3	648.7
125°	720.2	719.4	718.9	718.6	718.4	718.1	717.8
127.5°	786.1	785.1	784.2	783.3	782.4	781.6	780.7
130°	831.7	831.1	830.3	829.2	828.2	827.0	826.0
132.5°	875.0	873.8	872.7	871.9	871.0	870.1	869.2
135°	940.7	940.4	939.9	939.1	938.2	937.4	936.6
137.5°	1002.8	1002.6	1001.9	1000.9	999.7	998.7	997.5
140°	1044.7	1044.7	1044.2	1043.1	1042.0	1040.9	1039.8
142.5°	1082.8	1083.0	1082.6	1081.5	1080.4	1079.3	1078.2
145°	1140.2	1140.4	1140.0	1139.0	1137.9	1136.8	1135.7
147.5°	1190.8	1191.5	1191.2	1190.2	1189.1	1188.1	1187.1
150°	1222.9	1223.8	1223.8	1222.9	1222.1	1221.3	1220.5
152.5°	1255.1	1256.1	1256.1	1255.1	1254.0	1253.0	1252.0
155°	1295.9	1297.2	1297.5	1296.7	1295.9	1295.1	1294.3
157.5°	1333.7	1335.6	1335.9	1334.6	1333.3	1332.0	1330.6
160°	1355.7	1357.3	1357.6	1356.5	1355.4	1354.4	1353.2
162.5°	1376.1	1377.9	1378.2	1376.9	1375.6	1374.3	1372.9
165°	1402.0	1403.9	1404.2	1402.8	1401.5	1400.1	1398.7
167.5°	1423.4	1425.3	1425.6	1424.2	1422.7	1421.3	1419.8
170°	1435.2	1437.1	1437.2	1435.6	1433.9	1432.3	1430.7
172.5°	1444.1	1445.9	1446.1	1444.5	1442.8	1441.2	1439.6
175°	1453.6	1455.6	1455.7	1454.0	1452.4	1450.7	1449.1
177.5°	1457.5	1458.8	1458.8	1457.5	1456.2	1454.8	1453.5
180°	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5

(END OF REPORT)