

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: P331729-927

Luminaire Tested: **S122RDIP-S865D1080U927-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331729-927  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122RDIP-S865D1080U927-4F0-1E-UDD-A  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1080 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

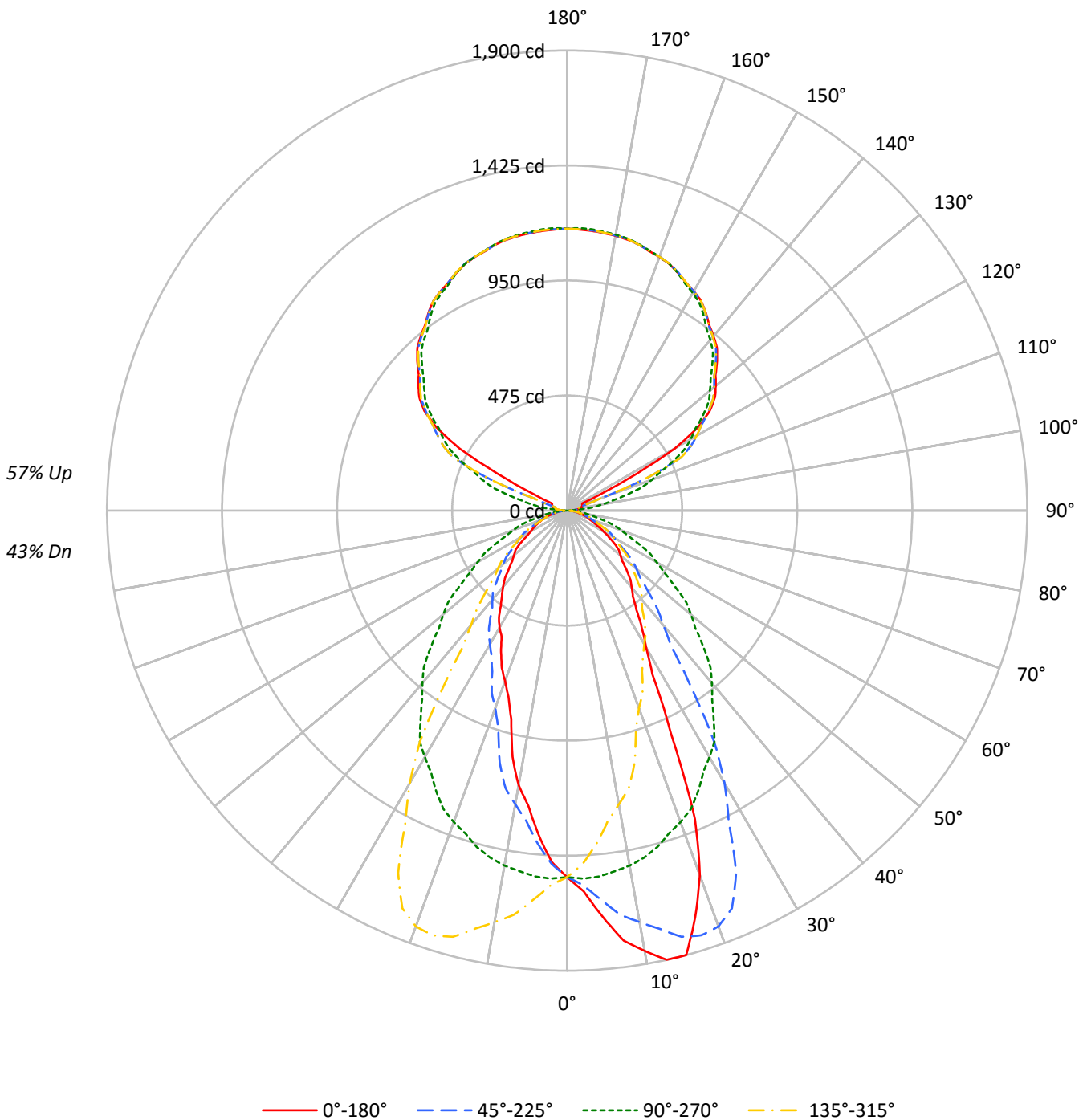
Lumens per Lamp: N/A  
Luminaire Lumens: 6027.8 lumens  
Efficiency: N/A  
Efficacy: 92.2 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse  
  
Input Watts (W): 65.4  
Input Voltage (V): 120  
Input Current (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	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	89	85	82	79	71	69	67	57	56	55	45	44	44	38
2	89	82	76	71	81	75	70	66	63	59	56	51	49	47	41	39	38	33
3	82	73	66	60	74	67	61	56	56	52	48	46	43	40	37	35	33	29
4	75	65	57	52	68	60	53	48	50	46	42	42	38	35	33	31	29	25
5	69	58	50	45	63	54	47	42	45	40	37	38	34	31	30	28	26	23
6	64	52	45	39	58	49	42	37	41	36	32	34	31	28	28	25	23	20
7	59	48	40	35	54	44	37	33	38	32	29	32	28	25	26	23	21	18
8	55	43	36	31	51	40	34	29	35	29	26	29	25	22	24	21	19	17
9	51	40	33	28	47	37	31	26	32	27	23	27	23	20	22	19	17	15
10	48	37	30	25	44	34	28	24	29	25	21	25	21	19	21	18	16	14

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

	0°	90°	180°	270°
0°	24425	24425	24425	24425
5°	27279	24577	21793	24577
10°	30263	24405	18889	24405
15°	31753	24047	14883	24047
20°	27527	23517	12880	23517
25°	18054	22792	11500	22792
30°	12152	21912	10407	21912
35°	9841	20802	9386	20802
40°	8753	19597	8686	19597
45°	7921	18182	7752	18182
50°	7209	16779	7181	16779
55°	6776	15226	6688	15226
60°	5667	13798	5603	13798
65°	4779	12531	5421	12531
70°	4419	11188	5113	11188
75°	4130	9738	4722	9738
80°	3812	8015	4203	8015
85°	3501	6317	3705	6317



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.4	2.4
10°-20°	399.6	6.6
20°-30°	514.9	8.5
30°-40°	489.3	8.1
40°-50°	419.2	7.0
50°-60°	319.2	5.3
60°-70°	201.8	3.3
70°-80°	100.8	1.7
80°-90°	29.1	0.5
90°-100°	38.8	0.6
100°-110°	142.4	2.4
110°-120°	380.6	6.3
120°-130°	628.2	10.4
130°-140°	668.1	11.1
140°-150°	620.9	10.3
150°-160°	499.2	8.3
160°-170°	321.7	5.3
170°-180°	110.7	1.8
0°-30°	1057.9	17.5
0°-40°	1547.2	25.7
0°-60°	2285.6	37.9
0°-90°	2617.2	43.4
90°-120°	561.7	9.3
90°-150°	2478.9	41.1
90°-180°	3411.0	56.6
0°-180°	6027.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1513	1513	1513	1513	1513	
5°	1683	1516	1345	1516	1683	166
15°	1900	1439	890	1439	1900	512
25°	1013	1279	646	1279	1013	481
35°	499	1055	476	1055	499	319
45°	347	796	340	796	347	269
55°	241	541	238	541	241	211
65°	125	328	142	328	125	127
75°	66	156	76	156	66	70
85°	19	34	20	34	19	21
90°	23	1	23	1	23	11
95°	36	55	36	55	36	34
105°	64	256	64	256	64	67
115°	69	484	69	484	69	173
125°	720	685	720	685	720	623
135°	875	847	875	847	875	674
145°	998	983	998	983	998	624
155°	1083	1082	1083	1082	1083	500
165°	1138	1140	1138	1140	1138	321
175°	1160	1166	1160	1166	1160	110
180°	1164	1164	1164	1164	1164	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8
2.5°	1574.1	1575.4	1576.7	1573.7	1573.7	1571.2	1565.7	1561.5	1549.7	1548.1	1548.1
5°	1683.1	1682.0	1684.1	1677.3	1667.8	1665.7	1655.7	1642.6	1628.9	1613.7	1610.5
7.5°	1791.3	1789.7	1785.5	1784.4	1777.1	1761.3	1745.2	1728.1	1705.3	1683.1	1672.0
10°	1845.9	1863.3	1852.8	1834.4	1838.1	1813.4	1800.2	1777.7	1758.7	1725.6	1718.2
12.5°	1899.8	1906.6	1903.3	1892.8	1888.2	1871.0	1853.2	1833.6	1798.6	1768.9	1743.0
15°	1899.6	1909.6	1912.2	1909.1	1911.7	1910.7	1901.2	1884.8	1854.4	1821.8	1793.4
17.5°	1759.4	1766.3	1783.5	1795.2	1809.9	1841.0	1856.4	1862.3	1857.8	1839.2	1819.2
20°	1602.1	1590.5	1638.9	1663.6	1684.6	1737.2	1782.4	1799.8	1827.6	1827.1	1821.8
22.5°	1379.2	1382.0	1427.8	1457.1	1518.5	1571.1	1622.6	1687.9	1741.8	1777.4	1798.3
25°	1013.4	1033.4	1079.1	1119.0	1187.4	1285.2	1374.0	1477.0	1574.2	1651.0	1724.0
27.5°	761.1	762.6	798.8	835.8	876.3	956.4	1068.3	1191.3	1329.9	1444.3	1575.9
30°	651.8	648.6	663.8	686.4	721.1	783.2	867.3	988.2	1126.4	1298.8	1452.3
32.5°	574.4	574.6	586.1	602.8	631.6	673.4	731.0	829.3	959.9	1129.3	1309.3
35°	499.3	498.8	507.2	519.3	531.4	558.2	597.6	649.1	739.0	897.2	1081.2
37.5°	445.5	447.8	451.9	459.5	472.9	487.7	511.4	546.1	610.1	703.6	858.3
40°	415.3	416.3	422.1	428.4	436.3	447.8	467.3	495.1	541.9	616.6	729.5
42.5°	387.5	388.6	392.6	398.5	404.7	416.3	432.4	456.5	494.4	552.6	645.9
45°	346.9	346.9	350.6	353.2	360.0	370.6	383.7	403.7	429.9	473.1	535.1
47.5°	308.9	309.0	311.4	315.9	320.2	328.4	341.4	357.7	376.8	410.1	463.1
50°	287.0	287.5	289.1	292.8	295.4	302.8	312.8	326.9	346.9	372.6	416.8
52.5°	269.3	269.0	271.0	272.6	274.4	279.6	287.1	299.6	317.5	339.8	376.4
55°	240.7	238.6	241.8	244.4	246.0	248.1	252.3	260.2	275.4	294.4	321.7
57.5°	205.0	204.1	206.4	208.7	213.7	219.4	223.0	228.0	235.9	249.5	276.6
60°	175.5	175.5	180.3	181.9	187.7	195.0	202.4	206.6	214.4	223.4	243.4
62.5°	149.5	149.9	152.1	153.7	156.9	166.0	176.3	185.5	193.0	201.5	214.8
65°	125.1	126.1	126.1	127.2	129.3	131.4	135.6	143.0	156.1	168.2	178.2
67.5°	106.2	106.5	106.8	107.9	108.4	110.7	112.4	115.7	118.7	130.2	142.5
70°	93.6	95.1	94.6	95.7	96.2	97.2	99.3	100.9	105.7	108.3	115.7
72.5°	81.8	82.9	82.9	83.5	84.8	85.1	86.7	88.3	91.3	93.6	97.5
75°	66.2	65.7	66.2	67.3	67.8	68.4	68.4	70.4	72.0	74.1	76.8
77.5°	51.1	51.7	51.5	51.7	51.7	52.7	52.6	53.5	55.1	56.2	57.4
80°	41.0	41.5	41.0	41.5	42.1	42.5	42.1	42.5	44.1	45.2	45.2
82.5°	31.8	31.8	32.2	32.2	32.4	32.5	33.2	33.4	34.5	34.3	34.7
85°	18.9	18.4	18.4	18.4	18.9	19.4	18.9	18.9	19.4	19.4	19.4
87.5°	11.2	11.6	11.6	11.5	11.4	11.2	11.1	11.3	10.7	10.9	10.2
90°	22.7	22.3	22.0	21.6	21.2	20.6	19.6	18.7	17.7	16.9	15.4
92.5°	22.7	22.5	22.3	22.1	21.9	21.5	21.0	20.5	20.0	19.6	18.8
95°	36.2	36.4	36.6	36.8	37.0	36.6	35.6	34.7	33.7	32.9	31.5
97.5°	48.3	48.1	47.9	47.7	47.5	47.0	46.2	45.5	44.7	44.0	41.0
100°	56.4	56.1	55.7	55.3	54.9	54.0	52.5	51.0	49.5	48.0	44.8
102.5°	60.4	60.0	59.4	58.9	58.4	57.1	55.2	53.2	51.3	49.4	46.0
105°	64.0	63.2	62.5	61.8	61.0	59.6	57.5	55.5	53.4	51.3	48.4
107.5°	65.8	65.1	64.3	63.6	62.9	63.5	65.6	67.7	69.8	71.9	73.2
110°	66.5	65.8	65.0	64.2	63.5	72.5	91.3	110.0	128.7	147.3	201.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	67.2	66.6	66.0	65.4	64.8	98.6	166.9	235.2	303.5	371.7	385.1
115°	69.1	82.5	96.0	109.5	122.9	173.0	259.7	346.3	432.9	519.6	514.9
117.5°	281.9	326.2	370.5	414.8	459.1	491.7	512.6	533.6	554.5	575.5	572.3
120°	513.7	538.9	564.2	589.5	614.7	626.3	624.0	621.8	619.5	617.3	613.9
122.5°	641.0	645.9	650.9	655.8	660.6	662.4	661.1	659.7	658.4	657.0	653.4
125°	720.0	719.5	718.9	718.4	717.8	716.8	715.5	714.2	712.9	711.6	708.1
127.5°	769.8	769.8	769.7	769.5	769.4	768.4	766.5	764.6	762.7	760.8	758.1
130°	800.9	801.1	801.2	801.5	801.6	800.7	798.6	796.5	794.5	792.4	790.4
132.5°	831.2	831.4	831.6	831.7	831.9	831.2	829.4	827.6	825.9	824.1	822.0
135°	875.0	875.4	875.7	876.1	876.5	875.7	873.9	872.0	870.1	868.2	866.6
137.5°	914.9	915.5	916.2	916.8	917.4	916.8	915.0	913.1	911.3	909.5	907.6
140°	939.8	940.7	941.7	942.6	943.6	943.2	941.5	939.8	938.1	936.4	934.4
142.5°	964.1	965.0	965.9	966.9	967.8	967.5	966.0	964.4	962.9	961.4	959.0
145°	997.9	998.9	999.8	1000.8	1001.6	1001.5	1000.1	998.9	997.5	996.2	993.1
147.5°	1027.7	1028.5	1029.3	1030.1	1030.9	1030.8	1029.8	1028.8	1027.9	1026.9	1023.7
150°	1045.9	1046.9	1047.8	1048.7	1049.6	1049.6	1048.5	1047.3	1046.2	1045.0	1042.1
152.5°	1061.4	1062.6	1063.9	1065.1	1066.4	1066.4	1065.3	1064.1	1063.0	1061.9	1059.1
155°	1083.0	1084.5	1086.0	1087.4	1088.9	1089.2	1088.1	1086.9	1085.8	1084.7	1082.4
157.5°	1102.6	1104.1	1105.6	1107.1	1108.5	1108.6	1107.3	1106.0	1104.8	1103.5	1101.9
160°	1114.1	1115.5	1116.7	1118.1	1119.4	1119.4	1118.3	1117.2	1116.1	1115.0	1113.9
162.5°	1123.6	1125.1	1126.8	1128.4	1130.0	1130.2	1128.9	1127.6	1126.3	1125.1	1124.1
165°	1137.7	1139.0	1140.3	1141.6	1143.0	1143.0	1141.6	1140.3	1139.0	1137.7	1137.2
167.5°	1146.6	1148.3	1150.0	1151.7	1153.3	1153.6	1152.2	1151.0	1149.6	1148.3	1147.8
170°	1152.0	1153.7	1155.4	1157.1	1158.7	1159.0	1157.6	1156.3	1155.0	1153.7	1153.3
172.5°	1156.0	1157.8	1159.4	1161.1	1162.8	1163.0	1161.7	1160.4	1159.0	1157.8	1157.4
175°	1159.6	1161.5	1163.3	1165.2	1167.1	1167.4	1166.1	1164.7	1163.5	1162.1	1161.7
177.5°	1161.8	1163.2	1164.5	1165.9	1167.2	1167.4	1166.3	1165.2	1164.2	1163.2	1163.0
180°	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8
2.5°	1548.9	1545.5	1542.6	1535.0	1531.2	1522.8	1521.5	1521.1	1510.2	1499.7	1496.7
5°	1602.1	1593.7	1581.0	1566.4	1551.1	1535.3	1524.8	1516.4	1495.4	1475.4	1463.9
7.5°	1655.7	1637.6	1615.9	1588.0	1564.8	1538.7	1519.3	1502.0	1472.2	1443.6	1424.3
10°	1695.7	1666.2	1637.3	1598.9	1569.0	1539.5	1512.2	1488.6	1454.9	1417.1	1390.3
12.5°	1720.5	1688.1	1648.2	1610.7	1571.9	1534.5	1497.9	1467.5	1428.0	1388.9	1357.0
15°	1754.0	1719.3	1671.0	1617.3	1567.4	1518.5	1476.5	1438.6	1387.1	1340.3	1301.4
17.5°	1781.5	1733.7	1681.8	1619.8	1561.9	1499.8	1445.7	1397.3	1340.0	1283.6	1237.7
20°	1790.3	1743.0	1683.1	1621.0	1552.7	1479.6	1421.3	1368.7	1307.2	1245.7	1193.2
22.5°	1784.8	1748.0	1681.3	1607.1	1537.2	1460.7	1394.8	1333.8	1265.6	1202.8	1141.9
25°	1747.7	1735.0	1672.0	1591.0	1511.2	1422.4	1346.1	1279.4	1201.6	1134.3	1068.0
27.5°	1661.2	1688.4	1649.3	1563.1	1474.3	1379.0	1293.3	1217.3	1136.6	1060.9	994.9
30°	1577.9	1640.5	1623.7	1543.7	1444.4	1350.8	1254.7	1175.3	1089.1	1011.3	946.1
32.5°	1464.0	1567.3	1583.7	1516.9	1414.1	1311.3	1210.5	1131.6	1041.6	959.6	896.0
35°	1282.5	1437.0	1508.0	1465.5	1362.4	1251.5	1147.4	1055.4	965.0	884.1	821.0
37.5°	1066.0	1276.5	1394.8	1397.8	1303.2	1187.9	1074.6	983.3	890.7	811.3	743.0
40°	925.6	1153.7	1307.7	1341.9	1262.0	1137.4	1022.9	929.8	839.4	761.6	683.3
42.5°	799.5	1026.7	1216.1	1275.5	1212.0	1088.2	973.3	876.0	788.1	714.5	634.5
45°	646.5	845.2	1053.8	1160.1	1124.8	1010.3	888.8	796.3	713.8	650.2	573.5
47.5°	545.4	685.4	887.3	1030.9	1030.3	925.7	806.3	717.7	641.1	581.5	519.4
50°	487.7	609.7	780.5	943.5	957.1	869.3	755.8	668.0	596.6	534.0	484.1
52.5°	436.0	536.5	690.1	846.4	885.3	809.2	699.1	618.1	548.7	491.2	448.4
55°	368.4	446.2	562.9	709.1	767.9	714.3	616.6	540.9	484.7	436.3	399.5
57.5°	311.7	370.0	463.7	581.3	649.9	616.2	535.5	474.0	425.9	382.1	353.1
60°	275.9	323.8	403.1	501.5	577.1	553.5	484.7	427.3	386.3	348.5	321.2
62.5°	242.3	283.4	351.4	431.2	500.6	490.8	434.6	386.5	350.6	316.1	292.9
65°	195.0	225.0	278.1	340.6	396.3	401.1	360.6	328.0	296.0	268.6	248.1
67.5°	155.3	174.8	212.2	264.9	306.7	321.5	296.8	272.0	246.5	225.4	207.6
70°	130.9	146.6	174.0	216.6	254.9	270.7	256.5	237.0	215.0	197.6	182.4
72.5°	106.1	121.4	141.6	172.9	205.7	222.8	217.9	203.8	185.9	171.6	157.2
75°	79.9	84.6	98.3	119.3	145.0	159.8	163.5	156.1	141.9	130.9	122.5
77.5°	59.1	61.9	68.4	79.5	96.3	109.4	114.8	113.9	104.2	97.8	89.9
80°	47.3	48.9	52.0	56.8	69.4	82.5	86.2	86.2	79.4	76.8	68.8
82.5°	36.0	37.1	39.0	41.6	47.5	58.9	63.1	63.9	59.6	56.2	49.9
85°	20.5	20.0	21.0	22.6	23.7	26.8	33.1	34.1	33.1	28.9	27.3
87.5°	9.9	10.1	9.7	9.0	9.0	9.0	10.7	12.4	11.1	10.2	9.8
90°	13.9	12.4	10.9	9.1	7.1	5.0	2.9	0.9	2.9	5.0	7.1
92.5°	18.1	17.3	16.6	16.2	16.5	16.6	16.8	17.0	16.8	16.6	16.5
95°	30.3	28.9	27.6	30.0	36.2	42.4	48.6	54.7	48.6	42.4	36.2
97.5°	37.9	34.9	31.8	39.1	56.4	73.8	91.3	108.6	91.3	73.8	56.4
100°	41.7	38.4	35.3	46.5	72.2	97.8	123.4	149.1	123.4	97.8	72.2
102.5°	102.6	129.2	155.8	171.8	177.2	182.7	188.1	193.5	188.1	182.7	177.2
105°	153.5	204.6	255.7	278.5	272.8	267.2	261.7	256.0	261.7	267.2	272.8
107.5°	194.5	255.7	317.0	345.4	340.8	336.3	331.8	327.3	331.8	336.3	340.8
110°	255.6	309.6	363.7	388.8	384.8	381.0	377.0	373.0	377.0	381.0	384.8





TEST NUMBER: P331729-927

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	398.5	411.8	425.2	430.1	426.6	423.1	419.7	416.2	419.7	423.1	426.6
115°	510.2	505.6	500.9	496.9	493.8	490.6	487.4	484.3	487.4	490.6	493.8
117.5°	569.1	565.9	562.6	559.3	555.7	552.2	548.6	545.0	548.6	552.2	555.7
120°	610.5	607.2	603.8	600.7	597.9	595.1	592.3	589.5	592.3	595.1	597.9
122.5°	649.7	646.0	642.4	639.1	636.1	633.1	630.2	627.2	630.2	633.1	636.1
125°	704.5	700.9	697.4	694.3	692.0	689.5	687.1	684.7	687.1	689.5	692.0
127.5°	755.4	752.8	750.1	747.5	744.8	742.1	739.4	736.7	739.4	742.1	744.8
130°	788.3	786.2	784.2	781.6	778.7	775.7	772.7	769.7	772.7	775.7	778.7
132.5°	820.0	817.9	815.9	813.6	811.0	808.5	806.0	803.4	806.0	808.5	811.0
135°	864.8	863.2	861.5	859.1	856.2	853.2	850.2	847.2	850.2	853.2	856.2
137.5°	905.7	903.8	901.8	899.8	897.8	895.6	893.6	891.4	893.6	895.6	897.8
140°	932.3	930.3	928.2	926.5	925.0	923.4	921.9	920.4	921.9	923.4	925.0
142.5°	956.6	954.3	952.0	950.1	948.7	947.4	946.0	944.7	946.0	947.4	948.7
145°	989.8	986.7	983.5	982.0	982.2	982.4	982.5	982.8	982.5	982.4	982.2
147.5°	1020.6	1017.5	1014.3	1013.1	1013.8	1014.5	1015.3	1016.0	1015.3	1014.5	1013.8
150°	1039.1	1036.1	1033.1	1032.3	1033.6	1034.9	1036.2	1037.5	1036.2	1034.9	1033.6
152.5°	1056.2	1053.4	1050.5	1049.9	1051.3	1052.7	1054.2	1055.7	1054.2	1052.7	1051.3
155°	1080.1	1077.9	1075.7	1075.4	1077.1	1078.8	1080.5	1082.1	1080.5	1078.8	1077.1
157.5°	1100.3	1098.8	1097.3	1097.2	1098.6	1100.0	1101.5	1102.9	1101.5	1100.0	1098.6
160°	1112.7	1111.6	1110.5	1110.5	1111.6	1112.7	1113.9	1115.0	1113.9	1112.7	1111.6
162.5°	1123.2	1122.1	1121.2	1121.3	1122.4	1123.5	1124.7	1125.8	1124.7	1123.5	1122.4
165°	1136.6	1136.0	1135.4	1135.8	1136.9	1138.0	1139.1	1140.3	1139.1	1138.0	1136.9
167.5°	1147.2	1146.8	1146.2	1146.5	1147.6	1148.7	1149.9	1151.0	1149.9	1148.7	1147.6
170°	1152.9	1152.6	1152.2	1152.6	1153.7	1154.8	1156.0	1157.1	1156.0	1154.8	1153.7
172.5°	1157.0	1156.7	1156.3	1156.7	1157.8	1158.9	1160.0	1161.1	1160.0	1158.9	1157.8
175°	1161.4	1161.0	1160.6	1161.1	1162.4	1163.7	1165.1	1166.3	1165.1	1163.7	1162.4
177.5°	1162.8	1162.7	1162.5	1163.0	1164.0	1165.1	1166.2	1167.2	1166.2	1165.1	1164.0
180°	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8



TEST NUMBER: P331729-927

CATALOG NUMBER: S122RDIP-S865D1080U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8
2.5°	1491.3	1488.4	1482.9	1474.5	1469.4	1460.6	1454.7	1458.1	1458.9	1458.1	1457.2
5°	1451.2	1440.2	1425.0	1410.2	1396.5	1381.9	1373.4	1369.8	1362.4	1358.2	1356.1
7.5°	1402.8	1383.8	1362.2	1336.6	1314.8	1292.0	1280.3	1274.5	1259.5	1251.3	1244.1
10°	1366.6	1336.6	1315.1	1281.4	1261.0	1231.0	1210.5	1211.0	1190.5	1178.9	1170.5
12.5°	1326.7	1293.8	1257.9	1227.6	1199.1	1175.0	1150.4	1140.3	1118.6	1107.5	1084.7
15°	1260.4	1222.1	1184.2	1143.2	1114.3	1077.0	1041.2	997.6	962.4	931.9	923.5
17.5°	1188.1	1140.6	1102.6	1054.5	1005.0	942.2	900.8	875.4	854.2	838.1	826.2
20°	1138.5	1090.1	1049.6	977.2	910.4	867.8	837.3	817.8	795.8	778.5	769.0
22.5°	1086.3	1035.9	980.7	899.8	847.7	813.6	786.4	764.1	749.1	735.5	726.9
25°	1012.3	957.1	866.3	810.5	768.4	732.7	713.8	700.1	684.4	666.0	657.5
27.5°	934.1	846.4	781.1	739.7	699.5	676.3	659.3	638.8	624.7	616.5	607.7
30°	875.7	787.9	736.9	691.7	663.3	637.5	617.6	606.0	592.4	578.2	572.4
32.5°	810.5	740.4	691.5	653.9	625.0	603.1	587.3	568.6	558.7	550.0	537.9
35°	729.5	676.4	631.8	601.3	574.0	556.1	537.7	526.6	508.8	501.5	496.7
37.5°	661.0	615.0	581.6	549.5	527.8	508.0	496.8	479.3	471.5	461.3	451.3
40°	622.3	577.1	545.1	518.8	494.6	479.9	465.7	451.5	440.0	435.2	423.1
42.5°	582.8	546.1	514.0	485.1	469.0	453.4	435.5	425.0	413.0	405.4	397.9
45°	528.2	495.7	468.3	444.7	426.8	410.5	398.9	381.6	374.8	359.5	353.2
47.5°	480.3	450.0	424.0	401.5	384.0	373.4	356.5	342.9	332.0	322.7	314.5
50°	446.2	421.0	395.8	375.8	360.0	344.8	327.5	320.6	303.8	299.0	294.4
52.5°	415.1	391.2	368.0	348.5	332.7	317.9	302.6	293.7	282.3	277.7	274.2
55°	371.6	348.5	326.4	309.0	293.3	278.1	268.6	257.5	252.3	248.6	244.4
57.5°	327.9	307.0	290.2	272.6	256.7	244.6	233.7	227.0	221.6	216.7	211.8
60°	300.2	280.1	264.9	248.6	232.3	222.4	213.9	206.0	199.7	192.3	190.3
62.5°	270.7	253.3	239.2	223.4	209.2	200.0	192.0	184.6	177.1	166.3	163.3
65°	230.2	216.6	201.8	188.7	176.1	167.2	155.6	147.2	144.0	143.0	142.4
67.5°	193.6	180.7	168.1	154.6	143.1	134.9	129.0	127.7	125.5	124.8	123.4
70°	169.2	157.2	144.6	131.9	120.9	119.3	117.2	115.1	112.5	111.5	110.4
72.5°	147.3	134.9	122.2	112.2	107.4	105.4	103.3	101.2	99.4	98.4	97.8
75°	113.0	101.5	93.0	89.4	86.7	85.2	82.0	80.4	79.4	77.8	77.2
77.5°	81.4	74.9	71.0	68.7	65.9	64.2	62.4	60.8	59.7	59.4	58.5
80°	62.0	58.9	56.2	53.1	52.0	49.9	49.4	47.8	48.3	46.8	46.8
82.5°	48.2	44.1	41.9	40.5	39.5	37.7	37.2	36.4	36.6	35.4	35.4
85°	24.7	23.7	22.6	21.5	21.5	20.0	20.5	20.0	20.0	18.9	18.4
87.5°	9.8	9.7	9.2	9.5	9.8	9.7	9.9	9.7	9.8	10.0	9.7
90°	9.1	10.9	12.4	13.9	15.4	16.9	17.7	18.7	19.6	20.6	21.2
92.5°	16.2	16.6	17.3	18.1	18.8	19.6	20.0	20.5	21.0	21.5	21.9
95°	30.0	27.6	28.9	30.3	31.5	32.9	33.7	34.7	35.6	36.6	37.0
97.5°	39.1	31.8	34.9	37.9	41.0	44.0	44.7	45.5	46.2	47.0	47.5
100°	46.5	35.3	38.4	41.7	44.8	48.0	49.5	51.0	52.5	54.0	54.9
102.5°	171.8	155.8	129.2	102.6	76.0	49.4	51.3	53.2	55.2	57.1	58.4
105°	278.5	255.7	204.6	153.5	102.4	51.3	53.4	55.5	57.5	59.6	61.0
107.5°	345.4	317.0	255.7	194.5	133.2	71.9	69.8	67.7	65.6	63.5	62.9
110°	388.8	363.7	309.6	255.6	201.5	147.3	128.7	110.0	91.3	72.5	63.5



TEST NUMBER: P331729-927

CATALOG NUMBER: S122RDIP-S865D1080U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	430.1	425.2	411.8	398.5	385.1	371.7	303.5	235.2	166.9	98.6	64.8
115°	496.9	500.9	505.6	510.2	514.9	519.6	432.9	346.3	259.7	173.0	122.9
117.5°	559.3	562.6	565.9	569.1	572.3	575.5	554.5	533.6	512.6	491.7	459.1
120°	600.7	603.8	607.2	610.5	613.9	617.3	619.5	621.8	624.0	626.3	614.7
122.5°	639.1	642.4	646.0	649.7	653.4	657.0	658.4	659.7	661.1	662.4	660.6
125°	694.3	697.4	700.9	704.5	708.1	711.6	712.9	714.2	715.5	716.8	717.8
127.5°	747.5	750.1	752.8	755.4	758.1	760.8	762.7	764.6	766.5	768.4	769.4
130°	781.6	784.2	786.2	788.3	790.4	792.4	794.5	796.5	798.6	800.7	801.6
132.5°	813.6	815.9	817.9	820.0	822.0	824.1	825.9	827.6	829.4	831.2	831.9
135°	859.1	861.5	863.2	864.8	866.6	868.2	870.1	872.0	873.9	875.7	876.5
137.5°	899.8	901.8	903.8	905.7	907.6	909.5	911.3	913.1	915.0	916.8	917.4
140°	926.5	928.2	930.3	932.3	934.4	936.4	938.1	939.8	941.5	943.2	943.6
142.5°	950.1	952.0	954.3	956.6	959.0	961.4	962.9	964.4	966.0	967.5	967.8
145°	982.0	983.5	986.7	989.8	993.1	996.2	997.5	998.9	1000.1	1001.5	1001.6
147.5°	1013.1	1014.3	1017.5	1020.6	1023.7	1026.9	1027.9	1028.8	1029.8	1030.8	1030.9
150°	1032.3	1033.1	1036.1	1039.1	1042.1	1045.0	1046.2	1047.3	1048.5	1049.6	1049.6
152.5°	1049.9	1050.5	1053.4	1056.2	1059.1	1061.9	1063.0	1064.1	1065.3	1066.4	1066.4
155°	1075.4	1075.7	1077.9	1080.1	1082.4	1084.7	1085.8	1086.9	1088.1	1089.2	1088.9
157.5°	1097.2	1097.3	1098.8	1100.3	1101.9	1103.5	1104.8	1106.0	1107.3	1108.6	1108.5
160°	1110.5	1110.5	1111.6	1112.7	1113.9	1115.0	1116.1	1117.2	1118.3	1119.4	1119.4
162.5°	1121.3	1121.2	1122.1	1123.2	1124.1	1125.1	1126.3	1127.6	1128.9	1130.2	1130.0
165°	1135.8	1135.4	1136.0	1136.6	1137.2	1137.7	1139.0	1140.3	1141.6	1143.0	1143.0
167.5°	1146.5	1146.2	1146.8	1147.2	1147.8	1148.3	1149.6	1151.0	1152.2	1153.6	1153.3
170°	1152.6	1152.2	1152.6	1152.9	1153.3	1153.7	1155.0	1156.3	1157.6	1159.0	1158.7
172.5°	1156.7	1156.3	1156.7	1157.0	1157.4	1157.8	1159.0	1160.4	1161.7	1163.0	1162.8
175°	1161.1	1160.6	1161.0	1161.4	1161.7	1162.1	1163.5	1164.7	1166.1	1167.4	1167.1
177.5°	1163.0	1162.5	1162.7	1162.8	1163.0	1163.2	1164.2	1165.2	1166.3	1167.4	1167.2
180°	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8



TEST NUMBER: P331729-927

CATALOG NUMBER: S122RDIP-S865D1080U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8
2.5°	1452.6	1453.4	1452.1	1453.0	1452.1	1453.4	1452.6	1457.2	1458.1	1458.9	1458.1
5°	1353.4	1347.2	1346.1	1344.6	1346.1	1347.2	1353.4	1356.1	1358.2	1362.4	1369.8
7.5°	1235.1	1234.1	1231.5	1227.9	1231.5	1234.1	1235.1	1244.1	1251.3	1259.5	1274.5
10°	1159.0	1156.3	1155.9	1152.1	1155.9	1156.3	1159.0	1170.5	1178.9	1190.5	1211.0
12.5°	1069.8	1052.9	1051.1	1042.0	1051.1	1052.9	1069.8	1084.7	1107.5	1118.6	1140.3
15°	910.9	907.8	897.2	890.4	897.2	907.8	910.9	923.5	931.9	962.4	997.6
17.5°	820.1	809.8	806.5	805.0	806.5	809.8	820.1	826.2	838.1	854.2	875.4
20°	761.6	752.2	750.6	749.6	750.6	752.2	761.6	769.0	778.5	795.8	817.8
22.5°	721.3	711.4	707.3	704.1	707.3	711.4	721.3	726.9	735.5	749.1	764.1
25°	652.3	648.6	646.5	645.5	646.5	648.6	652.3	657.5	666.0	684.4	700.1
27.5°	598.3	590.3	588.7	586.0	588.7	590.3	598.3	607.7	616.5	624.7	638.8
30°	567.7	565.1	561.3	558.2	561.3	565.1	567.7	572.4	578.2	592.4	606.0
32.5°	531.5	529.3	526.0	524.6	526.0	529.3	531.5	537.9	550.0	558.7	568.6
35°	491.5	484.1	480.9	476.2	480.9	484.1	491.5	496.7	501.5	508.8	526.6
37.5°	449.1	445.2	440.8	442.4	440.8	445.2	449.1	451.3	461.3	471.5	479.3
40°	416.3	413.7	412.6	412.1	412.6	413.7	416.3	423.1	435.2	440.0	451.5
42.5°	390.2	382.9	380.2	380.1	380.2	382.9	390.2	397.9	405.4	413.0	425.0
45°	350.6	343.7	339.1	339.5	339.1	343.7	350.6	353.2	359.5	374.8	381.6
47.5°	310.0	309.8	306.9	307.8	306.9	309.8	310.0	314.5	322.7	332.0	342.9
50°	290.7	287.5	285.4	285.9	285.4	287.5	290.7	294.4	299.0	303.8	320.6
52.5°	272.2	269.4	267.8	270.0	267.8	269.4	272.2	274.2	277.7	282.3	293.7
55°	241.8	238.6	238.1	237.6	238.1	238.6	241.8	244.4	248.6	252.3	257.5
57.5°	207.9	205.7	202.6	201.2	202.6	205.7	207.9	211.8	216.7	221.6	227.0
60°	183.5	179.3	174.0	173.5	174.0	179.3	183.5	190.3	192.3	199.7	206.0
62.5°	161.1	160.3	159.2	159.1	159.2	160.3	161.1	163.3	166.3	177.1	184.6
65°	141.4	140.9	141.4	141.9	141.4	140.9	141.4	142.4	143.0	144.0	147.2
67.5°	123.2	122.2	121.3	121.8	121.3	122.2	123.2	123.4	124.8	125.5	127.7
70°	109.3	108.8	108.3	108.3	108.3	108.8	109.3	110.4	111.5	112.5	115.1
72.5°	95.9	95.8	95.2	94.8	95.2	95.8	95.9	97.8	98.4	99.4	101.2
75°	76.8	75.7	75.7	75.7	75.7	75.7	76.8	77.2	77.8	79.4	80.4
77.5°	58.5	57.9	57.4	57.0	57.4	57.9	58.5	58.5	59.4	59.7	60.8
80°	46.3	45.7	45.2	45.2	45.2	45.7	46.3	46.8	46.8	48.3	47.8
82.5°	35.3	34.8	34.7	34.3	34.7	34.8	35.3	35.4	35.4	36.6	36.4
85°	18.9	19.4	18.9	20.0	18.9	19.4	18.9	18.4	18.9	20.0	20.0
87.5°	9.8	9.4	9.9	9.6	9.9	9.4	9.8	9.7	10.0	9.8	9.7
90°	21.6	22.0	22.3	22.7	22.3	22.0	21.6	21.2	20.6	19.6	18.7
92.5°	22.1	22.3	22.5	22.7	22.5	22.3	22.1	21.9	21.5	21.0	20.5
95°	36.8	36.6	36.4	36.2	36.4	36.6	36.8	37.0	36.6	35.6	34.7
97.5°	47.7	47.9	48.1	48.3	48.1	47.9	47.7	47.5	47.0	46.2	45.5
100°	55.3	55.7	56.1	56.4	56.1	55.7	55.3	54.9	54.0	52.5	51.0
102.5°	58.9	59.4	60.0	60.4	60.0	59.4	58.9	58.4	57.1	55.2	53.2
105°	61.8	62.5	63.2	64.0	63.2	62.5	61.8	61.0	59.6	57.5	55.5
107.5°	63.6	64.3	65.1	65.8	65.1	64.3	63.6	62.9	63.5	65.6	67.7
110°	64.2	65.0	65.8	66.5	65.8	65.0	64.2	63.5	72.5	91.3	110.0



TEST NUMBER: P331729-927

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	65.4	66.0	66.6	67.2	66.6	66.0	65.4	64.8	98.6	166.9	235.2
115°	109.5	96.0	82.5	69.1	82.5	96.0	109.5	122.9	173.0	259.7	346.3
117.5°	414.8	370.5	326.2	281.9	326.2	370.5	414.8	459.1	491.7	512.6	533.6
120°	589.5	564.2	538.9	513.7	538.9	564.2	589.5	614.7	626.3	624.0	621.8
122.5°	655.8	650.9	645.9	641.0	645.9	650.9	655.8	660.6	662.4	661.1	659.7
125°	718.4	718.9	719.5	720.0	719.5	718.9	718.4	717.8	716.8	715.5	714.2
127.5°	769.5	769.7	769.8	769.8	769.8	769.7	769.5	769.4	768.4	766.5	764.6
130°	801.5	801.2	801.1	800.9	801.1	801.2	801.5	801.6	800.7	798.6	796.5
132.5°	831.7	831.6	831.4	831.2	831.4	831.6	831.7	831.9	831.2	829.4	827.6
135°	876.1	875.7	875.4	875.0	875.4	875.7	876.1	876.5	875.7	873.9	872.0
137.5°	916.8	916.2	915.5	914.9	915.5	916.2	916.8	917.4	916.8	915.0	913.1
140°	942.6	941.7	940.7	939.8	940.7	941.7	942.6	943.6	943.2	941.5	939.8
142.5°	966.9	965.9	965.0	964.1	965.0	965.9	966.9	967.8	967.5	966.0	964.4
145°	1000.8	999.8	998.9	997.9	998.9	999.8	1000.8	1001.6	1001.5	1000.1	998.9
147.5°	1030.1	1029.3	1028.5	1027.7	1028.5	1029.3	1030.1	1030.9	1030.8	1029.8	1028.8
150°	1048.7	1047.8	1046.9	1045.9	1046.9	1047.8	1048.7	1049.6	1049.6	1048.5	1047.3
152.5°	1065.1	1063.9	1062.6	1061.4	1062.6	1063.9	1065.1	1066.4	1066.4	1065.3	1064.1
155°	1087.4	1086.0	1084.5	1083.0	1084.5	1086.0	1087.4	1088.9	1089.2	1088.1	1086.9
157.5°	1107.1	1105.6	1104.1	1102.6	1104.1	1105.6	1107.1	1108.5	1108.6	1107.3	1106.0
160°	1118.1	1116.7	1115.5	1114.1	1115.5	1116.7	1118.1	1119.4	1119.4	1118.3	1117.2
162.5°	1128.4	1126.8	1125.1	1123.6	1125.1	1126.8	1128.4	1130.0	1130.2	1128.9	1127.6
165°	1141.6	1140.3	1139.0	1137.7	1139.0	1140.3	1141.6	1143.0	1143.0	1141.6	1140.3
167.5°	1151.7	1150.0	1148.3	1146.6	1148.3	1150.0	1151.7	1153.3	1153.6	1152.2	1151.0
170°	1157.1	1155.4	1153.7	1152.0	1153.7	1155.4	1157.1	1158.7	1159.0	1157.6	1156.3
172.5°	1161.1	1159.4	1157.8	1156.0	1157.8	1159.4	1161.1	1162.8	1163.0	1161.7	1160.4
175°	1165.2	1163.3	1161.5	1159.6	1161.5	1163.3	1165.2	1167.1	1167.4	1166.1	1164.7
177.5°	1165.9	1164.5	1163.2	1161.8	1163.2	1164.5	1165.9	1167.2	1167.4	1166.3	1165.2
180°	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8
2.5°	1454.7	1460.6	1469.4	1474.5	1482.9	1488.4	1491.3	1496.7	1499.7	1510.2	1521.1
5°	1373.4	1381.9	1396.5	1410.2	1425.0	1440.2	1451.2	1463.9	1475.4	1495.4	1516.4
7.5°	1280.3	1292.0	1314.8	1336.6	1362.2	1383.8	1402.8	1424.3	1443.6	1472.2	1502.0
10°	1210.5	1231.0	1261.0	1281.4	1315.1	1336.6	1366.6	1390.3	1417.1	1454.9	1488.6
12.5°	1150.4	1175.0	1199.1	1227.6	1257.9	1293.8	1326.7	1357.0	1388.9	1428.0	1467.5
15°	1041.2	1077.0	1114.3	1143.2	1184.2	1222.1	1260.4	1301.4	1340.3	1387.1	1438.6
17.5°	900.8	942.2	1005.0	1054.5	1102.6	1140.6	1188.1	1237.7	1283.6	1340.0	1397.3
20°	837.3	867.8	910.4	977.2	1049.6	1090.1	1138.5	1193.2	1245.7	1307.2	1368.7
22.5°	786.4	813.6	847.7	899.8	980.7	1035.9	1086.3	1141.9	1202.8	1265.6	1333.8
25°	713.8	732.7	768.4	810.5	866.3	957.1	1012.3	1068.0	1134.3	1201.6	1279.4
27.5°	659.3	676.3	699.5	739.7	781.1	846.4	934.1	994.9	1060.9	1136.6	1217.3
30°	617.6	637.5	663.3	691.7	736.9	787.9	875.7	946.1	1011.3	1089.1	1175.3
32.5°	587.3	603.1	625.0	653.9	691.5	740.4	810.5	896.0	959.6	1041.6	1131.6
35°	537.7	556.1	574.0	601.3	631.8	676.4	729.5	821.0	884.1	965.0	1055.4
37.5°	496.8	508.0	527.8	549.5	581.6	615.0	661.0	743.0	811.3	890.7	983.3
40°	465.7	479.9	494.6	518.8	545.1	577.1	622.3	683.3	761.6	839.4	929.8
42.5°	435.5	453.4	469.0	485.1	514.0	546.1	582.8	634.5	714.5	788.1	876.0
45°	398.9	410.5	426.8	444.7	468.3	495.7	528.2	573.5	650.2	713.8	796.3
47.5°	356.5	373.4	384.0	401.5	424.0	450.0	480.3	519.4	581.5	641.1	717.7
50°	327.5	344.8	360.0	375.8	395.8	421.0	446.2	484.1	534.0	596.6	668.0
52.5°	302.6	317.9	332.7	348.5	368.0	391.2	415.1	448.4	491.2	548.7	618.1
55°	268.6	278.1	293.3	309.0	326.4	348.5	371.6	399.5	436.3	484.7	540.9
57.5°	233.7	244.6	256.7	272.6	290.2	307.0	327.9	353.1	382.1	425.9	474.0
60°	213.9	222.4	232.3	248.6	264.9	280.1	300.2	321.2	348.5	386.3	427.3
62.5°	192.0	200.0	209.2	223.4	239.2	253.3	270.7	292.9	316.1	350.6	386.5
65°	155.6	167.2	176.1	188.7	201.8	216.6	230.2	248.1	268.6	296.0	328.0
67.5°	129.0	134.9	143.1	154.6	168.1	180.7	193.6	207.6	225.4	246.5	272.0
70°	117.2	119.3	120.9	131.9	144.6	157.2	169.2	182.4	197.6	215.0	237.0
72.5°	103.3	105.4	107.4	112.2	122.2	134.9	147.3	157.2	171.6	185.9	203.8
75°	82.0	85.2	86.7	89.4	93.0	101.5	113.0	122.5	130.9	141.9	156.1
77.5°	62.4	64.2	65.9	68.7	71.0	74.9	81.4	89.9	97.8	104.2	113.9
80°	49.4	49.9	52.0	53.1	56.2	58.9	62.0	68.8	76.8	79.4	86.2
82.5°	37.2	37.7	39.5	40.5	41.9	44.1	48.2	49.9	56.2	59.6	63.9
85°	20.5	20.0	21.5	21.5	22.6	23.7	24.7	27.3	28.9	33.1	34.1
87.5°	9.9	9.7	9.8	9.5	9.2	9.7	9.8	9.8	10.2	11.1	12.4
90°	17.7	16.9	15.4	13.9	12.4	10.9	9.1	7.1	5.0	2.9	0.9
92.5°	20.0	19.6	18.8	18.1	17.3	16.6	16.2	16.5	16.6	16.8	17.0
95°	33.7	32.9	31.5	30.3	28.9	27.6	30.0	36.2	42.4	48.6	54.7
97.5°	44.7	44.0	41.0	37.9	34.9	31.8	39.1	56.4	73.8	91.3	108.6
100°	49.5	48.0	44.8	41.7	38.4	35.3	46.5	72.2	97.8	123.4	149.1
102.5°	51.3	49.4	76.0	102.6	129.2	155.8	171.8	177.2	182.7	188.1	193.5
105°	53.4	51.3	102.4	153.5	204.6	255.7	278.5	272.8	267.2	261.7	256.0
107.5°	69.8	71.9	133.2	194.5	255.7	317.0	345.4	340.8	336.3	331.8	327.3
110°	128.7	147.3	201.5	255.6	309.6	363.7	388.8	384.8	381.0	377.0	373.0



TEST NUMBER: P331729-927

CATALOG NUMBER: S122RDIP-S865D1080U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	303.5	371.7	385.1	398.5	411.8	425.2	430.1	426.6	423.1	419.7	416.2
115°	432.9	519.6	514.9	510.2	505.6	500.9	496.9	493.8	490.6	487.4	484.3
117.5°	554.5	575.5	572.3	569.1	565.9	562.6	559.3	555.7	552.2	548.6	545.0
120°	619.5	617.3	613.9	610.5	607.2	603.8	600.7	597.9	595.1	592.3	589.5
122.5°	658.4	657.0	653.4	649.7	646.0	642.4	639.1	636.1	633.1	630.2	627.2
125°	712.9	711.6	708.1	704.5	700.9	697.4	694.3	692.0	689.5	687.1	684.7
127.5°	762.7	760.8	758.1	755.4	752.8	750.1	747.5	744.8	742.1	739.4	736.7
130°	794.5	792.4	790.4	788.3	786.2	784.2	781.6	778.7	775.7	772.7	769.7
132.5°	825.9	824.1	822.0	820.0	817.9	815.9	813.6	811.0	808.5	806.0	803.4
135°	870.1	868.2	866.6	864.8	863.2	861.5	859.1	856.2	853.2	850.2	847.2
137.5°	911.3	909.5	907.6	905.7	903.8	901.8	899.8	897.8	895.6	893.6	891.4
140°	938.1	936.4	934.4	932.3	930.3	928.2	926.5	925.0	923.4	921.9	920.4
142.5°	962.9	961.4	959.0	956.6	954.3	952.0	950.1	948.7	947.4	946.0	944.7
145°	997.5	996.2	993.1	989.8	986.7	983.5	982.0	982.2	982.4	982.5	982.8
147.5°	1027.9	1026.9	1023.7	1020.6	1017.5	1014.3	1013.1	1013.8	1014.5	1015.3	1016.0
150°	1046.2	1045.0	1042.1	1039.1	1036.1	1033.1	1032.3	1033.6	1034.9	1036.2	1037.5
152.5°	1063.0	1061.9	1059.1	1056.2	1053.4	1050.5	1049.9	1051.3	1052.7	1054.2	1055.7
155°	1085.8	1084.7	1082.4	1080.1	1077.9	1075.7	1075.4	1077.1	1078.8	1080.5	1082.1
157.5°	1104.8	1103.5	1101.9	1100.3	1098.8	1097.3	1097.2	1098.6	1100.0	1101.5	1102.9
160°	1116.1	1115.0	1113.9	1112.7	1111.6	1110.5	1110.5	1111.6	1112.7	1113.9	1115.0
162.5°	1126.3	1125.1	1124.1	1123.2	1122.1	1121.2	1121.3	1122.4	1123.5	1124.7	1125.8
165°	1139.0	1137.7	1137.2	1136.6	1136.0	1135.4	1135.8	1136.9	1138.0	1139.1	1140.3
167.5°	1149.6	1148.3	1147.8	1147.2	1146.8	1146.2	1146.5	1147.6	1148.7	1149.9	1151.0
170°	1155.0	1153.7	1153.3	1152.9	1152.6	1152.2	1152.6	1153.7	1154.8	1156.0	1157.1
172.5°	1159.0	1157.8	1157.4	1157.0	1156.7	1156.3	1156.7	1157.8	1158.9	1160.0	1161.1
175°	1163.5	1162.1	1161.7	1161.4	1161.0	1160.6	1161.1	1162.4	1163.7	1165.1	1166.3
177.5°	1164.2	1163.2	1163.0	1162.8	1162.7	1162.5	1163.0	1164.0	1165.1	1166.2	1167.2
180°	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8



TEST NUMBER: P331729-927

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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8
2.5°	1521.5	1522.8	1531.2	1535.0	1542.6	1545.5	1548.9	1548.1	1548.1	1549.7	1561.5
5°	1524.8	1535.3	1551.1	1566.4	1581.0	1593.7	1602.1	1610.5	1613.7	1628.9	1642.6
7.5°	1519.3	1538.7	1564.8	1588.0	1615.9	1637.6	1655.7	1672.0	1683.1	1705.3	1728.1
10°	1512.2	1539.5	1569.0	1598.9	1637.3	1666.2	1695.7	1718.2	1725.6	1758.7	1777.7
12.5°	1497.9	1534.5	1571.9	1610.7	1648.2	1688.1	1720.5	1743.0	1768.9	1798.6	1833.6
15°	1476.5	1518.5	1567.4	1617.3	1671.0	1719.3	1754.0	1793.4	1821.8	1854.4	1884.8
17.5°	1445.7	1499.8	1561.9	1619.8	1681.8	1733.7	1781.5	1819.2	1839.2	1857.8	1862.3
20°	1421.3	1479.6	1552.7	1621.0	1683.1	1743.0	1790.3	1821.8	1827.1	1827.6	1799.8
22.5°	1394.8	1460.7	1537.2	1607.1	1681.3	1748.0	1784.8	1798.3	1777.4	1741.8	1687.9
25°	1346.1	1422.4	1511.2	1591.0	1672.0	1735.0	1747.7	1724.0	1651.0	1574.2	1477.0
27.5°	1293.3	1379.0	1474.3	1563.1	1649.3	1688.4	1661.2	1575.9	1444.3	1329.9	1191.3
30°	1254.7	1350.8	1444.4	1543.7	1623.7	1640.5	1577.9	1452.3	1298.8	1126.4	988.2
32.5°	1210.5	1311.3	1414.1	1516.9	1583.7	1567.3	1464.0	1309.3	1129.3	959.9	829.3
35°	1147.4	1251.5	1362.4	1465.5	1508.0	1437.0	1282.5	1081.2	897.2	739.0	649.1
37.5°	1074.6	1187.9	1303.2	1397.8	1394.8	1276.5	1066.0	858.3	703.6	610.1	546.1
40°	1022.9	1137.4	1262.0	1341.9	1307.7	1153.7	925.6	729.5	616.6	541.9	495.1
42.5°	973.3	1088.2	1212.0	1275.5	1216.1	1026.7	799.5	645.9	552.6	494.4	456.5
45°	888.8	1010.3	1124.8	1160.1	1053.8	845.2	646.5	535.1	473.1	429.9	403.7
47.5°	806.3	925.7	1030.3	1030.9	887.3	685.4	545.4	463.1	410.1	376.8	357.7
50°	755.8	869.3	957.1	943.5	780.5	609.7	487.7	416.8	372.6	346.9	326.9
52.5°	699.1	809.2	885.3	846.4	690.1	536.5	436.0	376.4	339.8	317.5	299.6
55°	616.6	714.3	767.9	709.1	562.9	446.2	368.4	321.7	294.4	275.4	260.2
57.5°	535.5	616.2	649.9	581.3	463.7	370.0	311.7	276.6	249.5	235.9	228.0
60°	484.7	553.5	577.1	501.5	403.1	323.8	275.9	243.4	223.4	214.4	206.6
62.5°	434.6	490.8	500.6	431.2	351.4	283.4	242.3	214.8	201.5	193.0	185.5
65°	360.6	401.1	396.3	340.6	278.1	225.0	195.0	178.2	168.2	156.1	143.0
67.5°	296.8	321.5	306.7	264.9	212.2	174.8	155.3	142.5	130.2	118.7	115.7
70°	256.5	270.7	254.9	216.6	174.0	146.6	130.9	115.7	108.3	105.7	100.9
72.5°	217.9	222.8	205.7	172.9	141.6	121.4	106.1	97.5	93.6	91.3	88.3
75°	163.5	159.8	145.0	119.3	98.3	84.6	79.9	76.8	74.1	72.0	70.4
77.5°	114.8	109.4	96.3	79.5	68.4	61.9	59.1	57.4	56.2	55.1	53.5
80°	86.2	82.5	69.4	56.8	52.0	48.9	47.3	45.2	45.2	44.1	42.5
82.5°	63.1	58.9	47.5	41.6	39.0	37.1	36.0	34.7	34.3	34.5	33.4
85°	33.1	26.8	23.7	22.6	21.0	20.0	20.5	19.4	19.4	19.4	18.9
87.5°	10.7	9.0	9.0	9.0	9.7	10.1	9.9	10.2	10.9	10.7	11.3
90°	2.9	5.0	7.1	9.1	10.9	12.4	13.9	15.4	16.9	17.7	18.7
92.5°	16.8	16.6	16.5	16.2	16.6	17.3	18.1	18.8	19.6	20.0	20.5
95°	48.6	42.4	36.2	30.0	27.6	28.9	30.3	31.5	32.9	33.7	34.7
97.5°	91.3	73.8	56.4	39.1	31.8	34.9	37.9	41.0	44.0	44.7	45.5
100°	123.4	97.8	72.2	46.5	35.3	38.4	41.7	44.8	48.0	49.5	51.0
102.5°	188.1	182.7	177.2	171.8	155.8	129.2	102.6	76.0	49.4	51.3	53.2
105°	261.7	267.2	272.8	278.5	255.7	204.6	153.5	102.4	51.3	53.4	55.5
107.5°	331.8	336.3	340.8	345.4	317.0	255.7	194.5	133.2	71.9	69.8	67.7
110°	377.0	381.0	384.8	388.8	363.7	309.6	255.6	201.5	147.3	128.7	110.0





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	419.7	423.1	426.6	430.1	425.2	411.8	398.5	385.1	371.7	303.5	235.2
115°	487.4	490.6	493.8	496.9	500.9	505.6	510.2	514.9	519.6	432.9	346.3
117.5°	548.6	552.2	555.7	559.3	562.6	565.9	569.1	572.3	575.5	554.5	533.6
120°	592.3	595.1	597.9	600.7	603.8	607.2	610.5	613.9	617.3	619.5	621.8
122.5°	630.2	633.1	636.1	639.1	642.4	646.0	649.7	653.4	657.0	658.4	659.7
125°	687.1	689.5	692.0	694.3	697.4	700.9	704.5	708.1	711.6	712.9	714.2
127.5°	739.4	742.1	744.8	747.5	750.1	752.8	755.4	758.1	760.8	762.7	764.6
130°	772.7	775.7	778.7	781.6	784.2	786.2	788.3	790.4	792.4	794.5	796.5
132.5°	806.0	808.5	811.0	813.6	815.9	817.9	820.0	822.0	824.1	825.9	827.6
135°	850.2	853.2	856.2	859.1	861.5	863.2	864.8	866.6	868.2	870.1	872.0
137.5°	893.6	895.6	897.8	899.8	901.8	903.8	905.7	907.6	909.5	911.3	913.1
140°	921.9	923.4	925.0	926.5	928.2	930.3	932.3	934.4	936.4	938.1	939.8
142.5°	946.0	947.4	948.7	950.1	952.0	954.3	956.6	959.0	961.4	962.9	964.4
145°	982.5	982.4	982.2	982.0	983.5	986.7	989.8	993.1	996.2	997.5	998.9
147.5°	1015.3	1014.5	1013.8	1013.1	1014.3	1017.5	1020.6	1023.7	1026.9	1027.9	1028.8
150°	1036.2	1034.9	1033.6	1032.3	1033.1	1036.1	1039.1	1042.1	1045.0	1046.2	1047.3
152.5°	1054.2	1052.7	1051.3	1049.9	1050.5	1053.4	1056.2	1059.1	1061.9	1063.0	1064.1
155°	1080.5	1078.8	1077.1	1075.4	1075.7	1077.9	1080.1	1082.4	1084.7	1085.8	1086.9
157.5°	1101.5	1100.0	1098.6	1097.2	1097.3	1098.8	1100.3	1101.9	1103.5	1104.8	1106.0
160°	1113.9	1112.7	1111.6	1110.5	1110.5	1111.6	1112.7	1113.9	1115.0	1116.1	1117.2
162.5°	1124.7	1123.5	1122.4	1121.3	1121.2	1122.1	1123.2	1124.1	1125.1	1126.3	1127.6
165°	1139.1	1138.0	1136.9	1135.8	1135.4	1136.0	1136.6	1137.2	1137.7	1139.0	1140.3
167.5°	1149.9	1148.7	1147.6	1146.5	1146.2	1146.8	1147.2	1147.8	1148.3	1149.6	1151.0
170°	1156.0	1154.8	1153.7	1152.6	1152.2	1152.6	1152.9	1153.3	1153.7	1155.0	1156.3
172.5°	1160.0	1158.9	1157.8	1156.7	1156.3	1156.7	1157.0	1157.4	1157.8	1159.0	1160.4
175°	1165.1	1163.7	1162.4	1161.1	1160.6	1161.0	1161.4	1161.7	1162.1	1163.5	1164.7
177.5°	1166.2	1165.1	1164.0	1163.0	1162.5	1162.7	1162.8	1163.0	1163.2	1164.2	1165.2
180°	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8
2.5°	1565.7	1571.2	1573.7	1573.7	1576.7	1575.4	1574.1
5°	1655.7	1665.7	1667.8	1677.3	1684.1	1682.0	1683.1
7.5°	1745.2	1761.3	1777.1	1784.4	1785.5	1789.7	1791.3
10°	1800.2	1813.4	1838.1	1834.4	1852.8	1863.3	1845.9
12.5°	1853.2	1871.0	1888.2	1892.8	1903.3	1906.6	1899.8
15°	1901.2	1910.7	1911.7	1909.1	1912.2	1909.6	1899.6
17.5°	1856.4	1841.0	1809.9	1795.2	1783.5	1766.3	1759.4
20°	1782.4	1737.2	1684.6	1663.6	1638.9	1590.5	1602.1
22.5°	1622.6	1571.1	1518.5	1457.1	1427.8	1382.0	1379.2
25°	1374.0	1285.2	1187.4	1119.0	1079.1	1033.4	1013.4
27.5°	1068.3	956.4	876.3	835.8	798.8	762.6	761.1
30°	867.3	783.2	721.1	686.4	663.8	648.6	651.8
32.5°	731.0	673.4	631.6	602.8	586.1	574.6	574.4
35°	597.6	558.2	531.4	519.3	507.2	498.8	499.3
37.5°	511.4	487.7	472.9	459.5	451.9	447.8	445.5
40°	467.3	447.8	436.3	428.4	422.1	416.3	415.3
42.5°	432.4	416.3	404.7	398.5	392.6	388.6	387.5
45°	383.7	370.6	360.0	353.2	350.6	346.9	346.9
47.5°	341.4	328.4	320.2	315.9	311.4	309.0	308.9
50°	312.8	302.8	295.4	292.8	289.1	287.5	287.0
52.5°	287.1	279.6	274.4	272.6	271.0	269.0	269.3
55°	252.3	248.1	246.0	244.4	241.8	238.6	240.7
57.5°	223.0	219.4	213.7	208.7	206.4	204.1	205.0
60°	202.4	195.0	187.7	181.9	180.3	175.5	175.5
62.5°	176.3	166.0	156.9	153.7	152.1	149.9	149.5
65°	135.6	131.4	129.3	127.2	126.1	126.1	125.1
67.5°	112.4	110.7	108.4	107.9	106.8	106.5	106.2
70°	99.3	97.2	96.2	95.7	94.6	95.1	93.6
72.5°	86.7	85.1	84.8	83.5	82.9	82.9	81.8
75°	68.4	68.4	67.8	67.3	66.2	65.7	66.2
77.5°	52.6	52.7	51.7	51.7	51.5	51.7	51.1
80°	42.1	42.5	42.1	41.5	41.0	41.5	41.0
82.5°	33.2	32.5	32.4	32.2	32.2	31.8	31.8
85°	18.9	19.4	18.9	18.4	18.4	18.4	18.9
87.5°	11.1	11.2	11.4	11.5	11.6	11.6	11.2
90°	19.6	20.6	21.2	21.6	22.0	22.3	22.7
92.5°	21.0	21.5	21.9	22.1	22.3	22.5	22.7
95°	35.6	36.6	37.0	36.8	36.6	36.4	36.2
97.5°	46.2	47.0	47.5	47.7	47.9	48.1	48.3
100°	52.5	54.0	54.9	55.3	55.7	56.1	56.4
102.5°	55.2	57.1	58.4	58.9	59.4	60.0	60.4
105°	57.5	59.6	61.0	61.8	62.5	63.2	64.0
107.5°	65.6	63.5	62.9	63.6	64.3	65.1	65.8
110°	91.3	72.5	63.5	64.2	65.0	65.8	66.5



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	166.9	98.6	64.8	65.4	66.0	66.6	67.2
115°	259.7	173.0	122.9	109.5	96.0	82.5	69.1
117.5°	512.6	491.7	459.1	414.8	370.5	326.2	281.9
120°	624.0	626.3	614.7	589.5	564.2	538.9	513.7
122.5°	661.1	662.4	660.6	655.8	650.9	645.9	641.0
125°	715.5	716.8	717.8	718.4	718.9	719.5	720.0
127.5°	766.5	768.4	769.4	769.5	769.7	769.8	769.8
130°	798.6	800.7	801.6	801.5	801.2	801.1	800.9
132.5°	829.4	831.2	831.9	831.7	831.6	831.4	831.2
135°	873.9	875.7	876.5	876.1	875.7	875.4	875.0
137.5°	915.0	916.8	917.4	916.8	916.2	915.5	914.9
140°	941.5	943.2	943.6	942.6	941.7	940.7	939.8
142.5°	966.0	967.5	967.8	966.9	965.9	965.0	964.1
145°	1000.1	1001.5	1001.6	1000.8	999.8	998.9	997.9
147.5°	1029.8	1030.8	1030.9	1030.1	1029.3	1028.5	1027.7
150°	1048.5	1049.6	1049.6	1048.7	1047.8	1046.9	1045.9
152.5°	1065.3	1066.4	1066.4	1065.1	1063.9	1062.6	1061.4
155°	1088.1	1089.2	1088.9	1087.4	1086.0	1084.5	1083.0
157.5°	1107.3	1108.6	1108.5	1107.1	1105.6	1104.1	1102.6
160°	1118.3	1119.4	1119.4	1118.1	1116.7	1115.5	1114.1
162.5°	1128.9	1130.2	1130.0	1128.4	1126.8	1125.1	1123.6
165°	1141.6	1143.0	1143.0	1141.6	1140.3	1139.0	1137.7
167.5°	1152.2	1153.6	1153.3	1151.7	1150.0	1148.3	1146.6
170°	1157.6	1159.0	1158.7	1157.1	1155.4	1153.7	1152.0
172.5°	1161.7	1163.0	1162.8	1161.1	1159.4	1157.8	1156.0
175°	1166.1	1167.4	1167.1	1165.2	1163.3	1161.5	1159.6
177.5°	1166.3	1167.4	1167.2	1165.9	1164.5	1163.2	1161.8
180°	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8

(END OF REPORT)