

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: P332355-930

Luminaire Tested: **S123RDIP-S1000D1195U930-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332355-930  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123RDIP-S1000D1195U930-4F0-1E-UDD-A1  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1195 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6571.7 lumens  
Efficiency: N/A  
Efficacy: 100.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: General Diffuse

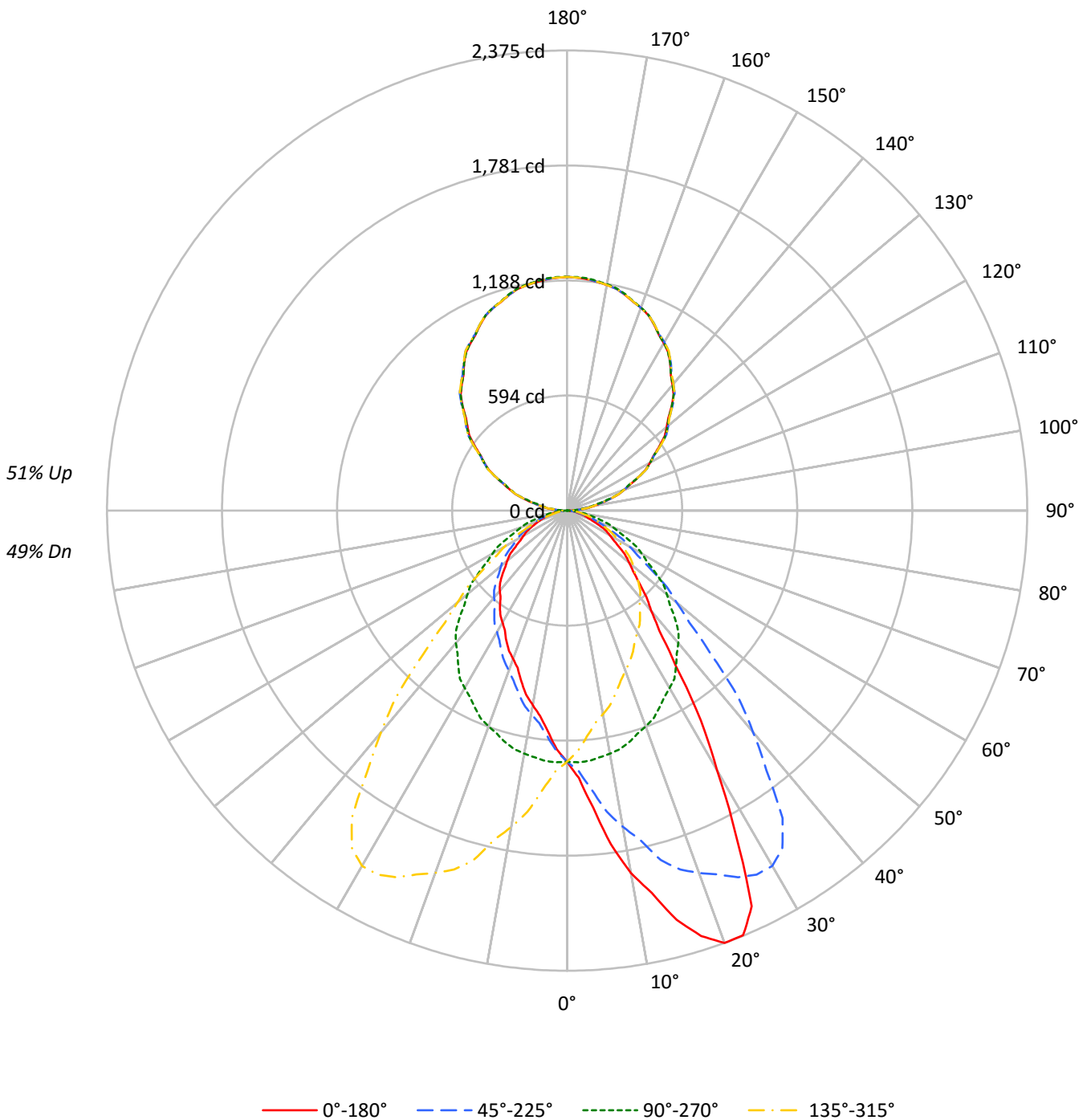
Input Watts (W): 65.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	55	55	55	49
1	98	94	90	87	90	87	84	81	73	71	69	61	60	58	50	49	48	43
2	90	83	77	72	83	77	72	67	65	61	58	54	52	49	45	43	41	37
3	82	73	66	61	76	68	62	57	58	53	50	49	45	43	40	38	36	32
4	76	65	58	52	70	61	54	49	52	47	43	44	40	37	36	33	31	28
5	70	58	51	45	64	54	47	42	47	41	37	39	35	32	33	30	28	24
6	64	53	45	39	59	49	42	37	42	37	33	36	32	29	30	27	24	22
7	59	48	40	34	55	44	38	33	38	33	29	33	29	25	27	24	22	19
8	55	43	36	31	51	40	34	29	35	30	26	30	26	23	25	22	20	17
9	52	40	32	27	48	37	30	26	32	27	23	28	24	21	23	20	18	16
10	48	36	29	25	45	34	28	23	30	25	21	26	22	19	22	19	16	14

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

	0°	90°	180°	270°
0°	13951	13951	13951	13951
5°	16630	14011	12337	14011
10°	20764	13930	11146	13930
15°	24373	13788	10165	13788
20°	27202	13575	9330	13575
25°	26766	13351	8817	13351
30°	19240	13144	8289	13144
35°	12846	12875	7947	12875
40°	9465	12552	7593	12552
45°	7939	11985	7247	11985
50°	7005	11241	6764	11241
55°	6142	10393	6101	10393
60°	5470	9580	5591	9580
65°	4806	8706	5201	8706
70°	3770	7928	4749	7928
75°	3323	6924	4338	6924
80°	2889	5883	4265	5883
85°	2322	4730	4520	4730



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.5	1.9
10°-20°	398.2	6.1
20°-30°	625.6	9.5
30°-40°	652.7	9.9
40°-50°	558.6	8.5
50°-60°	425.7	6.5
60°-70°	272.9	4.2
70°-80°	131.3	2.0
80°-90°	38.3	0.6
90°-100°	78.6	1.2
100°-110°	235.1	3.6
110°-120°	399.9	6.1
120°-130°	526.0	8.0
130°-140°	591.2	9.0
140°-150°	581.2	8.8
150°-160°	489.3	7.4
160°-170°	325.7	5.0
170°-180°	114.0	1.7
0°-30°	1151.2	17.5
0°-40°	1803.9	27.4
0°-60°	2788.2	42.4
0°-90°	3230.6	49.2
90°-120°	713.6	10.9
90°-150°	2412.1	36.7
90°-180°	3341.0	50.8
0°-180°	6571.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1296	1296	1296	1296	1296	
5°	1539	1297	1142	1297	1539	159
15°	2187	1237	912	1237	2187	620
25°	2254	1124	742	1124	2254	969
35°	978	980	605	980	978	641
45°	522	787	476	787	522	410
55°	327	554	325	554	327	296
65°	189	342	204	342	189	186
75°	80	166	104	166	80	86
85°	19	38	37	38	19	22
90°	28	1	28	1	28	14
95°	74	56	74	56	74	76
105°	225	213	225	213	225	239
115°	404	403	404	403	404	400
125°	583	589	583	589	583	521
135°	764	764	764	764	764	587
145°	927	927	927	927	927	579
155°	1060	1062	1060	1062	1060	488
165°	1153	1157	1153	1157	1153	325
175°	1198	1203	1198	1203	1198	114
180°	1206	1206	1206	1206	1206	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1
2.5°	1380.5	1382.2	1376.5	1375.6	1368.9	1367.1	1367.1	1357.8	1352.0	1344.5	1340.0
5°	1539.1	1548.0	1543.5	1533.6	1516.9	1513.0	1502.5	1485.9	1467.0	1443.7	1432.6
7.5°	1737.3	1749.4	1744.7	1729.3	1711.9	1697.8	1668.1	1640.5	1601.7	1567.7	1538.7
10°	1899.7	1887.0	1877.0	1862.1	1845.9	1819.8	1788.8	1746.0	1696.7	1657.8	1614.6
12.5°	2021.4	2019.3	2006.6	1991.2	1968.5	1943.7	1905.5	1853.5	1796.1	1740.0	1690.4
15°	2187.2	2190.5	2182.1	2166.1	2133.9	2090.1	2032.4	2010.8	1928.6	1867.6	1806.5
17.5°	2301.9	2301.3	2300.1	2277.9	2245.0	2213.8	2160.3	2103.4	2029.0	1943.0	1860.8
20°	2374.7	2369.2	2370.2	2345.3	2320.9	2284.8	2232.7	2150.0	2089.0	1989.7	1904.8
22.5°	2372.9	2371.8	2376.0	2367.5	2349.8	2322.1	2281.0	2211.3	2133.3	2033.1	1937.6
25°	2253.7	2249.3	2275.4	2282.6	2310.9	2315.9	2303.7	2265.4	2191.6	2088.4	1970.3
27.5°	1886.2	1883.7	1932.2	1992.8	2069.6	2129.2	2187.0	2214.8	2191.6	2117.7	1999.3
30°	1548.0	1600.2	1624.6	1712.2	1809.9	1926.4	2028.5	2125.6	2149.5	2117.3	2020.1
32.5°	1285.2	1330.7	1351.1	1426.4	1517.4	1653.8	1807.0	1944.5	2041.6	2066.2	2007.8
35°	977.6	978.2	1024.7	1058.1	1142.4	1282.8	1431.5	1615.7	1798.8	1937.5	1951.9
37.5°	780.1	782.9	811.1	844.2	907.5	981.7	1112.6	1265.8	1477.3	1690.3	1815.1
40°	673.6	678.6	699.7	732.4	777.9	833.9	936.0	1080.3	1256.7	1493.6	1687.3
42.5°	605.2	613.3	624.2	649.4	677.6	730.0	812.6	924.1	1084.5	1308.6	1531.9
45°	521.5	525.9	534.3	545.9	571.4	608.1	663.6	738.5	871.6	1052.0	1275.5
47.5°	460.1	457.7	466.5	476.0	492.9	517.9	555.1	616.2	711.2	855.9	1045.5
50°	418.3	417.8	423.9	431.1	447.2	465.5	496.0	542.1	617.5	737.4	911.0
52.5°	379.3	381.4	385.7	394.7	406.3	421.1	448.5	481.7	546.5	650.0	794.8
55°	327.3	329.1	335.1	340.1	348.5	363.4	380.6	408.4	452.7	524.9	644.2
57.5°	283.4	282.7	288.5	289.8	299.1	311.4	324.7	346.3	378.4	432.0	512.3
60°	254.1	252.4	257.5	261.3	266.4	276.3	287.4	308.5	334.0	373.4	442.2
62.5°	227.5	226.7	230.4	234.2	238.4	247.4	256.8	273.0	293.2	326.4	381.0
65°	188.7	190.3	192.0	193.6	195.8	201.4	210.3	221.4	235.2	258.5	297.9
67.5°	148.2	149.9	150.5	153.9	158.7	162.2	167.5	177.4	187.1	206.8	229.2
70°	119.8	119.3	119.8	121.5	127.6	133.7	141.0	148.1	154.3	168.1	186.9
72.5°	103.0	102.0	103.5	103.8	106.7	108.4	113.0	119.8	127.6	137.1	150.6
75°	79.9	79.9	79.9	79.9	82.1	83.2	84.9	86.6	89.4	93.8	103.8
77.5°	59.0	59.1	59.9	60.5	60.9	61.6	62.6	64.2	65.2	67.6	71.9
80°	46.6	47.1	46.6	47.1	47.1	48.3	48.8	50.5	51.0	53.8	55.5
82.5°	35.1	34.7	35.1	35.6	35.6	36.8	36.9	38.1	38.2	39.6	41.3
85°	18.8	17.8	18.8	18.3	19.4	18.3	18.8	20.0	20.0	20.5	22.7
87.5°	10.1	10.9	9.9	10.4	10.2	10.5	10.4	10.2	10.9	10.4	10.2
90°	28.5	28.0	27.6	27.1	26.7	26.1	25.3	24.5	23.6	22.7	20.0
92.5°	38.2	38.5	38.8	39.1	39.3	39.1	38.4	37.7	37.0	36.4	34.8
95°	73.9	73.9	73.9	73.9	73.9	73.5	72.6	71.7	70.9	70.1	68.4
97.5°	113.7	113.7	113.8	113.9	114.0	113.6	112.6	111.6	110.6	109.7	108.4
100°	144.0	143.6	143.2	142.8	142.3	141.8	141.1	140.5	139.9	139.3	138.2
102.5°	175.0	175.1	175.2	175.3	175.4	175.1	174.5	173.8	173.3	172.6	171.2
105°	225.4	225.0	224.6	224.2	223.8	223.6	223.6	223.6	223.6	223.6	221.7
107.5°	277.9	278.2	278.4	278.7	278.9	278.8	278.1	277.4	276.7	276.1	275.2
110°	313.6	314.0	314.4	314.8	315.2	315.0	314.2	313.3	312.5	311.7	311.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	351.5	351.6	351.6	351.7	351.8	351.3	350.3	349.3	348.3	347.2	347.2
115°	403.6	403.7	404.0	404.1	404.4	404.4	404.1	404.0	403.7	403.6	404.0
117.5°	456.4	457.0	457.5	458.2	458.8	459.1	459.1	459.2	459.2	459.3	459.8
120°	493.5	494.0	494.4	494.8	495.2	495.5	495.8	495.9	496.2	496.4	497.4
122.5°	529.1	529.7	530.4	530.9	531.5	532.1	532.6	533.2	533.7	534.3	534.8
125°	582.6	583.4	584.2	585.1	586.0	586.8	587.7	588.5	589.3	590.2	590.6
127.5°	635.9	636.7	637.7	638.7	639.7	640.7	642.0	643.1	644.3	645.5	646.0
130°	670.7	672.1	673.6	675.1	676.5	677.8	678.6	679.4	680.3	681.1	681.8
132.5°	707.0	708.2	709.3	710.5	711.6	712.7	713.7	714.7	715.7	716.7	717.1
135°	763.5	763.9	764.3	764.8	765.2	765.8	766.6	767.5	768.3	769.2	769.4
137.5°	813.3	814.2	815.0	815.7	816.5	817.3	818.2	819.1	820.0	820.9	820.4
140°	846.0	847.4	848.9	850.4	851.8	852.6	852.9	853.0	853.3	853.5	853.3
142.5°	879.3	880.4	881.5	882.6	883.8	884.5	884.7	884.9	885.1	885.3	884.9
145°	927.4	928.2	929.0	929.9	930.7	931.3	931.5	931.7	931.9	932.1	931.5
147.5°	970.2	971.4	972.7	974.0	975.3	975.9	975.9	975.9	975.9	975.9	975.3
150°	997.5	998.7	1000.0	1001.3	1002.6	1003.1	1003.1	1003.1	1003.1	1003.1	1002.7
152.5°	1024.0	1025.1	1026.2	1027.3	1028.4	1028.7	1028.4	1028.1	1027.8	1027.4	1027.2
155°	1060.0	1061.5	1063.0	1064.5	1065.9	1066.2	1065.4	1064.5	1063.7	1062.8	1062.7
157.5°	1092.7	1094.0	1095.1	1096.3	1097.5	1097.6	1096.7	1095.8	1095.0	1094.1	1094.0
160°	1114.0	1114.8	1115.7	1116.6	1117.4	1117.3	1116.2	1115.2	1114.1	1113.0	1113.0
162.5°	1129.9	1131.2	1132.6	1133.9	1135.3	1135.5	1134.4	1133.3	1132.3	1131.2	1131.1
165°	1152.8	1154.3	1155.8	1157.2	1158.7	1158.9	1157.6	1156.3	1155.0	1153.8	1153.8
167.5°	1172.3	1173.6	1174.9	1176.2	1177.5	1177.5	1176.2	1174.9	1173.6	1172.3	1172.2
170°	1182.2	1183.7	1185.1	1186.7	1188.1	1188.1	1186.7	1185.1	1183.7	1182.2	1182.2
172.5°	1189.8	1191.2	1192.7	1194.2	1195.7	1195.8	1194.5	1193.2	1191.9	1190.6	1190.6
175°	1198.3	1199.8	1201.3	1202.7	1204.2	1204.3	1203.1	1201.8	1200.5	1199.2	1199.2
177.5°	1202.9	1204.0	1205.2	1206.4	1207.5	1207.6	1206.6	1205.7	1204.6	1203.6	1203.6
180°	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1
2.5°	1338.2	1336.9	1330.7	1323.6	1314.3	1308.1	1303.2	1300.6	1292.6	1282.8	1276.1
5°	1420.9	1404.3	1386.6	1364.9	1344.9	1324.4	1311.7	1296.7	1278.3	1257.8	1243.4
7.5°	1509.5	1476.8	1441.7	1405.4	1369.5	1337.4	1309.0	1284.7	1255.5	1226.0	1205.4
10°	1577.4	1529.7	1480.3	1429.8	1383.7	1340.5	1307.2	1274.5	1239.5	1205.7	1180.1
12.5°	1639.1	1576.3	1519.4	1457.3	1398.4	1346.7	1298.8	1260.3	1218.2	1182.1	1153.1
15°	1717.2	1652.9	1584.0	1489.7	1411.5	1346.1	1287.8	1237.3	1186.3	1141.8	1113.5
17.5°	1790.2	1693.4	1600.9	1522.2	1420.6	1338.8	1267.7	1207.3	1151.3	1104.2	1069.4
20°	1820.4	1726.6	1626.2	1525.8	1426.0	1334.4	1251.7	1185.1	1126.9	1073.6	1041.5
22.5°	1838.6	1732.4	1626.7	1518.7	1412.6	1317.5	1235.7	1162.5	1099.3	1048.7	1009.0
25°	1859.8	1733.3	1616.8	1510.3	1402.1	1298.9	1201.8	1124.1	1055.9	1002.0	959.9
27.5°	1873.8	1725.0	1587.3	1468.8	1359.1	1256.4	1167.3	1085.0	1015.8	958.9	913.6
30°	1876.5	1718.3	1564.6	1436.5	1324.9	1230.6	1136.3	1057.5	984.3	923.8	881.7
32.5°	1880.0	1701.9	1534.0	1397.8	1283.7	1190.3	1104.8	1029.6	954.6	895.0	851.9
35°	1865.4	1692.8	1487.5	1331.1	1216.8	1126.3	1049.2	979.8	906.0	848.3	804.5
37.5°	1802.3	1656.8	1439.3	1255.8	1136.3	1052.6	989.7	929.3	861.5	799.3	758.0
40°	1738.9	1621.2	1402.1	1210.1	1085.2	999.2	942.6	893.3	827.9	769.6	725.2
42.5°	1644.3	1572.9	1366.6	1162.1	1027.5	944.7	896.9	850.7	793.2	734.0	692.4
45°	1470.9	1480.3	1293.9	1085.8	947.6	864.5	819.5	787.3	736.3	687.5	644.7
47.5°	1253.4	1341.6	1208.5	1004.4	863.4	785.3	746.0	718.0	683.5	635.6	596.6
50°	1111.3	1237.3	1140.2	949.9	810.7	733.0	694.1	671.3	641.4	603.6	566.5
52.5°	980.4	1115.7	1057.6	889.1	753.3	682.3	644.4	625.7	601.9	566.4	532.7
55°	799.5	936.5	923.2	797.3	667.5	603.6	574.8	553.8	537.6	511.0	484.4
57.5°	646.7	776.7	783.5	695.2	591.8	528.7	503.9	488.0	477.5	457.4	432.8
60°	550.4	669.7	693.0	626.4	537.6	482.2	457.7	445.0	436.7	420.5	401.7
62.5°	470.5	572.0	598.4	550.5	485.7	433.7	414.7	402.4	396.7	382.9	366.2
65°	360.1	444.4	469.9	443.3	409.4	367.9	352.3	341.8	336.8	329.1	316.8
67.5°	270.8	332.2	360.2	341.4	329.2	303.0	293.1	287.4	283.0	277.6	267.4
70°	217.5	263.0	291.9	286.8	276.9	263.0	255.8	251.9	247.4	243.0	234.2
72.5°	174.9	206.2	233.3	235.8	227.6	224.9	218.5	216.9	214.2	208.9	204.0
75°	115.9	137.6	156.5	163.7	167.0	169.7	167.0	166.5	165.9	161.4	158.7
77.5°	76.0	87.6	99.5	111.9	117.1	120.8	121.7	123.8	122.3	119.9	118.6
80°	58.3	61.1	69.4	79.9	88.2	91.6	93.8	94.9	94.3	93.8	91.6
82.5°	42.3	44.6	48.5	55.9	62.9	68.5	69.8	69.5	70.8	71.1	69.4
85°	22.7	23.3	24.4	25.5	29.4	35.5	37.2	38.3	39.4	39.4	36.0
87.5°	10.5	9.5	9.9	9.5	10.4	10.4	12.6	14.4	15.2	13.9	14.3
90°	17.3	14.5	11.8	9.4	7.3	5.1	3.0	1.0	3.0	5.1	7.3
92.5°	33.3	31.7	30.2	28.6	27.2	25.8	24.4	22.9	24.4	25.8	27.2
95°	66.7	65.1	63.3	61.8	60.3	58.9	57.4	55.9	57.4	58.9	60.3
97.5°	107.3	106.1	104.8	103.6	102.6	101.5	100.4	99.3	100.4	101.5	102.6
100°	137.1	136.1	135.0	133.9	132.6	131.3	130.1	128.8	130.1	131.3	132.6
102.5°	169.8	168.4	167.1	166.0	165.2	164.4	163.7	162.9	163.7	164.4	165.2
105°	219.8	217.8	216.0	214.8	214.4	214.0	213.5	213.1	213.5	214.0	214.4
107.5°	274.5	273.8	273.0	272.5	272.2	272.0	271.7	271.5	271.7	272.0	272.2
110°	310.8	310.4	310.0	309.6	309.2	308.7	308.3	307.9	308.3	308.7	309.2





TEST NUMBER: P332355-930

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	347.1	347.0	346.9	346.7	346.5	346.3	346.0	345.8	346.0	346.3	346.5
115°	404.4	404.8	405.2	405.1	404.5	403.8	403.2	402.6	403.2	403.8	404.5
117.5°	460.3	460.9	461.5	461.5	461.1	460.6	460.2	459.8	460.2	460.6	461.1
120°	498.5	499.5	500.6	500.5	499.2	498.0	496.7	495.5	496.7	498.0	499.2
122.5°	535.3	535.9	536.5	536.3	535.3	534.4	533.5	532.6	533.5	534.4	535.3
125°	591.0	591.4	591.8	591.7	591.1	590.4	589.9	589.2	589.9	590.4	591.1
127.5°	646.4	646.9	647.3	646.9	645.6	644.2	642.9	641.5	642.9	644.2	645.6
130°	682.3	683.0	683.6	683.1	681.4	679.7	678.0	676.4	678.0	679.7	681.4
132.5°	717.6	718.1	718.6	718.0	716.2	714.6	712.9	711.2	712.9	714.6	716.2
135°	769.6	769.8	770.1	769.5	768.3	767.0	765.7	764.4	765.7	767.0	768.3
137.5°	819.8	819.3	818.7	817.9	816.8	815.8	814.7	813.8	814.7	815.8	816.8
140°	853.0	852.9	852.6	852.0	851.0	849.9	848.9	847.8	848.9	849.9	851.0
142.5°	884.6	884.2	883.8	883.1	882.1	881.0	880.0	878.9	880.0	881.0	882.1
145°	930.8	930.3	929.6	929.0	928.6	928.2	927.8	927.4	927.8	928.2	928.6
147.5°	974.7	974.1	973.5	972.9	972.1	971.3	970.6	969.8	970.6	971.3	972.1
150°	1002.3	1001.9	1001.5	1001.1	1000.6	1000.2	999.8	999.4	999.8	1000.2	1000.6
152.5°	1027.0	1026.6	1026.4	1026.0	1025.4	1024.8	1024.3	1023.6	1024.3	1024.8	1025.4
155°	1062.4	1062.3	1062.0	1061.9	1061.9	1061.9	1061.9	1061.9	1061.9	1061.9	1061.9
157.5°	1093.8	1093.6	1093.4	1093.5	1093.7	1094.0	1094.2	1094.5	1094.2	1094.0	1093.7
160°	1113.0	1113.0	1113.0	1113.3	1113.7	1114.1	1114.5	1114.9	1114.5	1114.1	1113.7
162.5°	1130.9	1130.7	1130.6	1130.8	1131.4	1132.0	1132.5	1133.1	1132.5	1132.0	1131.4
165°	1153.8	1153.8	1153.8	1154.1	1154.7	1155.4	1156.0	1156.7	1156.0	1155.4	1154.7
167.5°	1172.0	1171.8	1171.7	1172.0	1172.9	1173.7	1174.5	1175.4	1174.5	1173.7	1172.9
170°	1182.2	1182.2	1182.2	1182.6	1183.5	1184.3	1185.1	1186.0	1185.1	1184.3	1183.5
172.5°	1190.6	1190.6	1190.6	1191.0	1191.8	1192.6	1193.5	1194.3	1193.5	1192.6	1191.8
175°	1199.2	1199.2	1199.2	1199.7	1200.5	1201.3	1202.2	1203.1	1202.2	1201.3	1200.5
177.5°	1203.6	1203.6	1203.6	1204.0	1204.6	1205.3	1206.0	1206.6	1206.0	1205.3	1204.6
180°	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9



TEST NUMBER: P332355-930

CATALOG NUMBER: S123RDIP-S1000D1195U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1
2.5°	1273.9	1268.1	1264.1	1255.2	1249.5	1243.2	1237.1	1241.0	1240.6	1240.2	1240.2
5°	1231.2	1218.4	1206.8	1191.8	1182.3	1170.7	1161.8	1160.7	1162.9	1155.2	1150.7
7.5°	1188.8	1171.3	1154.9	1138.3	1120.8	1106.8	1098.0	1093.9	1088.3	1083.5	1078.5
10°	1159.0	1138.6	1122.4	1101.9	1083.0	1066.4	1055.9	1048.6	1044.7	1040.9	1033.6
12.5°	1128.5	1108.3	1087.9	1064.6	1046.7	1027.4	1019.5	1011.4	1004.0	999.6	989.7
15°	1083.6	1057.5	1035.9	1011.5	991.5	972.7	961.6	945.4	943.2	937.7	927.7
17.5°	1038.7	1010.3	980.5	962.5	939.9	920.2	903.4	898.0	882.1	876.1	867.4
20°	1003.1	977.1	954.3	930.5	897.7	879.4	866.1	858.9	846.1	838.4	832.8
22.5°	972.5	946.0	919.7	891.9	864.9	844.3	834.6	823.4	816.4	805.5	799.5
25°	928.8	899.9	868.3	838.4	819.0	803.4	787.9	777.9	767.9	762.9	751.8
27.5°	878.0	847.8	818.2	795.5	771.7	756.4	742.2	733.4	721.4	713.0	706.9
30°	850.0	814.5	789.0	768.4	737.9	723.5	713.0	701.9	693.0	684.1	678.0
32.5°	817.6	785.2	761.0	735.6	712.2	696.4	682.8	673.0	665.4	657.0	650.9
35°	766.8	739.6	714.6	689.1	671.9	655.8	639.8	631.4	624.2	616.4	610.9
37.5°	720.8	695.5	671.7	647.5	626.1	613.1	600.1	593.8	584.0	578.8	573.2
40°	692.4	667.5	642.0	618.6	596.5	586.4	574.8	565.4	556.5	552.6	546.5
42.5°	661.4	636.4	614.9	589.8	571.6	558.1	547.3	537.0	530.4	524.6	521.2
45°	615.3	593.1	572.0	547.1	529.9	518.2	506.0	496.6	490.5	486.6	480.5
47.5°	570.6	548.4	527.0	505.2	488.6	475.2	463.1	456.5	448.4	443.7	439.5
50°	538.2	518.2	495.5	475.5	458.9	445.6	435.5	427.2	420.0	413.9	411.2
52.5°	508.4	487.1	467.5	448.9	431.3	416.2	407.2	398.4	393.0	386.0	382.7
55°	459.4	438.9	422.2	403.9	386.7	374.0	362.9	355.1	349.5	341.8	337.4
57.5°	413.4	394.9	375.0	359.2	341.4	330.7	321.5	311.0	304.2	298.1	293.8
60°	382.3	361.2	344.0	329.1	313.5	299.6	291.3	283.0	275.7	269.6	265.8
62.5°	349.8	331.5	315.1	298.8	284.6	272.6	262.9	255.9	249.6	245.6	241.8
65°	300.2	285.8	269.1	255.8	242.5	233.6	225.8	219.7	215.2	212.5	209.2
67.5°	254.5	240.4	225.9	212.9	204.0	197.2	192.1	186.9	184.7	181.1	178.9
70°	224.7	210.3	197.5	187.5	178.6	173.7	170.3	166.5	164.2	159.8	157.6
72.5°	192.3	181.9	172.7	164.4	157.4	152.8	148.5	143.8	140.2	135.3	133.1
75°	151.5	142.0	134.9	129.3	124.8	118.7	112.6	107.6	106.0	104.3	103.8
77.5°	112.2	106.2	101.0	96.3	90.7	86.3	85.0	83.9	83.6	82.7	82.7
80°	88.2	82.7	78.8	73.2	69.9	69.9	69.9	68.8	69.4	69.4	69.4
82.5°	65.6	60.5	58.4	56.3	55.7	56.2	56.2	56.3	56.0	56.9	56.5
85°	33.8	34.4	35.5	35.0	35.5	35.5	36.6	36.0	36.6	35.5	36.6
87.5°	14.3	16.1	17.1	18.1	19.1	19.2	19.8	20.0	20.6	20.8	20.9
90°	9.4	11.8	14.5	17.3	20.0	22.7	23.6	24.5	25.3	26.1	26.7
92.5°	28.6	30.2	31.7	33.3	34.8	36.4	37.0	37.7	38.4	39.1	39.3
95°	61.8	63.3	65.1	66.7	68.4	70.1	70.9	71.7	72.6	73.5	73.9
97.5°	103.6	104.8	106.1	107.3	108.4	109.7	110.6	111.6	112.6	113.6	114.0
100°	133.9	135.0	136.1	137.1	138.2	139.3	139.9	140.5	141.1	141.8	142.3
102.5°	166.0	167.1	168.4	169.8	171.2	172.6	173.3	173.8	174.5	175.1	175.4
105°	214.8	216.0	217.8	219.8	221.7	223.6	223.6	223.6	223.6	223.6	223.8
107.5°	272.5	273.0	273.8	274.5	275.2	276.1	276.7	277.4	278.1	278.8	278.9
110°	309.6	310.0	310.4	310.8	311.2	311.7	312.5	313.3	314.2	315.0	315.2



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	346.7	346.9	347.0	347.1	347.2	347.2	348.3	349.3	350.3	351.3	351.8
115°	405.1	405.2	404.8	404.4	404.0	403.6	403.7	404.0	404.1	404.4	404.4
117.5°	461.5	461.5	460.9	460.3	459.8	459.3	459.2	459.2	459.1	459.1	458.8
120°	500.5	500.6	499.5	498.5	497.4	496.4	496.2	495.9	495.8	495.5	495.2
122.5°	536.3	536.5	535.9	535.3	534.8	534.3	533.7	533.2	532.6	532.1	531.5
125°	591.7	591.8	591.4	591.0	590.6	590.2	589.3	588.5	587.7	586.8	586.0
127.5°	646.9	647.3	646.9	646.4	646.0	645.5	644.3	643.1	642.0	640.7	639.7
130°	683.1	683.6	683.0	682.3	681.8	681.1	680.3	679.4	678.6	677.8	676.5
132.5°	718.0	718.6	718.1	717.6	717.1	716.7	715.7	714.7	713.7	712.7	711.6
135°	769.5	770.1	769.8	769.6	769.4	769.2	768.3	767.5	766.6	765.8	765.2
137.5°	817.9	818.7	819.3	819.8	820.4	820.9	820.0	819.1	818.2	817.3	816.5
140°	852.0	852.6	852.9	853.0	853.3	853.5	853.3	853.0	852.9	852.6	851.8
142.5°	883.1	883.8	884.2	884.6	884.9	885.3	885.1	884.9	884.7	884.5	883.8
145°	929.0	929.6	930.3	930.8	931.5	932.1	931.9	931.7	931.5	931.3	930.7
147.5°	972.9	973.5	974.1	974.7	975.3	975.9	975.9	975.9	975.9	975.9	975.3
150°	1001.1	1001.5	1001.9	1002.3	1002.7	1003.1	1003.1	1003.1	1003.1	1003.1	1002.6
152.5°	1026.0	1026.4	1026.6	1027.0	1027.2	1027.4	1027.8	1028.1	1028.4	1028.7	1028.4
155°	1061.9	1062.0	1062.3	1062.4	1062.7	1062.8	1063.7	1064.5	1065.4	1066.2	1065.9
157.5°	1093.5	1093.4	1093.6	1093.8	1094.0	1094.1	1095.0	1095.8	1096.7	1097.6	1097.5
160°	1113.3	1113.0	1113.0	1113.0	1113.0	1113.0	1114.1	1115.2	1116.2	1117.3	1117.4
162.5°	1130.8	1130.6	1130.7	1130.9	1131.1	1131.2	1132.3	1133.3	1134.4	1135.5	1135.3
165°	1154.1	1153.8	1153.8	1153.8	1153.8	1153.8	1155.0	1156.3	1157.6	1158.9	1158.7
167.5°	1172.0	1171.7	1171.8	1172.0	1172.2	1172.3	1173.6	1174.9	1176.2	1177.5	1177.5
170°	1182.6	1182.2	1182.2	1182.2	1182.2	1182.2	1183.7	1185.1	1186.7	1188.1	1188.1
172.5°	1191.0	1190.6	1190.6	1190.6	1190.6	1190.6	1191.9	1193.2	1194.5	1195.8	1195.7
175°	1199.7	1199.2	1199.2	1199.2	1199.2	1199.2	1200.5	1201.8	1203.1	1204.3	1204.2
177.5°	1204.0	1203.6	1203.6	1203.6	1203.6	1203.6	1204.6	1205.7	1206.6	1207.6	1207.5
180°	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1
2.5°	1234.9	1234.4	1234.9	1233.1	1234.9	1234.4	1234.9	1240.2	1240.2	1240.6	1241.0
5°	1149.1	1148.5	1146.9	1141.8	1146.9	1148.5	1149.1	1150.7	1155.2	1162.9	1160.7
7.5°	1074.2	1073.4	1068.5	1068.6	1068.5	1073.4	1074.2	1078.5	1083.5	1088.3	1093.9
10°	1029.8	1030.3	1023.7	1019.8	1023.7	1030.3	1029.8	1033.6	1040.9	1044.7	1048.6
12.5°	986.8	984.1	978.8	974.5	978.8	984.1	986.8	989.7	999.6	1004.0	1011.4
15°	929.9	924.4	911.0	912.2	911.0	924.4	929.9	927.7	937.7	943.2	945.4
17.5°	863.0	858.9	858.7	850.9	858.7	858.9	863.0	867.4	876.1	882.1	898.0
20°	823.9	821.2	822.2	814.5	822.2	821.2	823.9	832.8	838.4	846.1	858.9
22.5°	793.3	790.5	785.9	783.4	785.9	790.5	793.3	799.5	805.5	816.4	823.4
25°	748.4	744.0	739.6	742.4	739.6	744.0	748.4	751.8	762.9	767.9	777.9
27.5°	703.7	700.3	695.9	695.3	695.9	700.3	703.7	706.9	713.0	721.4	733.4
30°	675.2	671.9	669.7	666.9	669.7	671.9	675.2	678.0	684.1	693.0	701.9
32.5°	646.4	645.7	641.7	641.2	641.7	645.7	646.4	650.9	657.0	665.4	673.0
35°	608.6	605.4	604.2	604.8	604.2	605.4	608.6	610.9	616.4	624.2	631.4
37.5°	572.8	568.3	566.4	564.4	566.4	568.3	572.8	573.2	578.8	584.0	593.8
40°	547.1	542.7	541.5	540.4	541.5	542.7	547.1	546.5	552.6	556.5	565.4
42.5°	518.2	516.4	515.8	513.8	515.8	516.4	518.2	521.2	524.6	530.4	537.0
45°	478.8	478.3	474.9	476.1	474.9	478.3	478.8	480.5	486.6	490.5	496.6
47.5°	437.3	434.9	432.5	434.1	432.5	434.9	437.3	439.5	443.7	448.4	456.5
50°	409.0	407.8	402.8	403.9	402.8	407.8	409.0	411.2	413.9	420.0	427.2
52.5°	380.5	376.3	374.4	373.7	374.4	376.3	380.5	382.7	386.0	393.0	398.4
55°	333.5	328.5	326.3	325.1	326.3	328.5	333.5	337.4	341.8	349.5	355.1
57.5°	287.3	285.9	284.2	285.4	284.2	285.9	287.3	293.8	298.1	304.2	311.0
60°	260.2	260.2	260.2	259.7	260.2	260.2	260.2	265.8	269.6	275.7	283.0
62.5°	239.4	238.0	237.6	238.4	237.6	238.0	239.4	241.8	245.6	249.6	255.9
65°	207.5	206.9	204.7	204.2	204.7	206.9	207.5	209.2	212.5	215.2	219.7
67.5°	177.4	175.5	174.8	174.0	174.8	175.5	177.4	178.9	181.1	184.7	186.9
70°	154.8	153.7	150.3	150.9	150.3	153.7	154.8	157.6	159.8	164.2	166.5
72.5°	130.4	129.3	128.6	127.8	128.6	129.3	130.4	133.1	135.3	140.2	143.8
75°	103.2	102.6	102.1	104.3	102.1	102.6	103.2	103.8	104.3	106.0	107.6
77.5°	82.7	82.7	83.0	82.1	83.0	82.7	82.7	82.7	82.7	83.6	83.9
80°	69.4	69.4	68.8	68.8	68.8	69.4	69.4	69.4	69.4	69.4	68.8
82.5°	55.6	56.0	56.3	55.5	56.3	56.0	55.6	56.5	56.9	56.0	56.3
85°	36.6	36.0	37.2	36.6	37.2	36.0	36.6	36.6	35.5	36.6	36.0
87.5°	21.9	21.0	21.1	21.7	21.1	21.0	21.9	20.9	20.8	20.6	20.0
90°	27.1	27.6	28.0	28.5	28.0	27.6	27.1	26.7	26.1	25.3	24.5
92.5°	39.1	38.8	38.5	38.2	38.5	38.8	39.1	39.3	39.1	38.4	37.7
95°	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.5	72.6	71.7
97.5°	113.9	113.8	113.7	113.7	113.7	113.8	113.9	114.0	113.6	112.6	111.6
100°	142.8	143.2	143.6	144.0	143.6	143.2	142.8	142.3	141.8	141.1	140.5
102.5°	175.3	175.2	175.1	175.0	175.1	175.2	175.3	175.4	175.1	174.5	173.8
105°	224.2	224.6	225.0	225.4	225.0	224.6	224.2	223.8	223.6	223.6	223.6
107.5°	278.7	278.4	278.2	277.9	278.2	278.4	278.7	278.9	278.8	278.1	277.4
110°	314.8	314.4	314.0	313.6	314.0	314.4	314.8	315.2	315.0	314.2	313.3



TEST NUMBER: P332355-930

CATALOG NUMBER: S123RDIP-S1000D1195U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	351.7	351.6	351.6	351.5	351.6	351.6	351.7	351.8	351.3	350.3	349.3
115°	404.1	404.0	403.7	403.6	403.7	404.0	404.1	404.4	404.4	404.1	404.0
117.5°	458.2	457.5	457.0	456.4	457.0	457.5	458.2	458.8	459.1	459.1	459.2
120°	494.8	494.4	494.0	493.5	494.0	494.4	494.8	495.2	495.5	495.8	495.9
122.5°	530.9	530.4	529.7	529.1	529.7	530.4	530.9	531.5	532.1	532.6	533.2
125°	585.1	584.2	583.4	582.6	583.4	584.2	585.1	586.0	586.8	587.7	588.5
127.5°	638.7	637.7	636.7	635.9	636.7	637.7	638.7	639.7	640.7	642.0	643.1
130°	675.1	673.6	672.1	670.7	672.1	673.6	675.1	676.5	677.8	678.6	679.4
132.5°	710.5	709.3	708.2	707.0	708.2	709.3	710.5	711.6	712.7	713.7	714.7
135°	764.8	764.3	763.9	763.5	763.9	764.3	764.8	765.2	765.8	766.6	767.5
137.5°	815.7	815.0	814.2	813.3	814.2	815.0	815.7	816.5	817.3	818.2	819.1
140°	850.4	848.9	847.4	846.0	847.4	848.9	850.4	851.8	852.6	852.9	853.0
142.5°	882.6	881.5	880.4	879.3	880.4	881.5	882.6	883.8	884.5	884.7	884.9
145°	929.9	929.0	928.2	927.4	928.2	929.0	929.9	930.7	931.3	931.5	931.7
147.5°	974.0	972.7	971.4	970.2	971.4	972.7	974.0	975.3	975.9	975.9	975.9
150°	1001.3	1000.0	998.7	997.5	998.7	1000.0	1001.3	1002.6	1003.1	1003.1	1003.1
152.5°	1027.3	1026.2	1025.1	1024.0	1025.1	1026.2	1027.3	1028.4	1028.7	1028.4	1028.1
155°	1064.5	1063.0	1061.5	1060.0	1061.5	1063.0	1064.5	1065.9	1066.2	1065.4	1064.5
157.5°	1096.3	1095.1	1094.0	1092.7	1094.0	1095.1	1096.3	1097.5	1097.6	1096.7	1095.8
160°	1116.6	1115.7	1114.8	1114.0	1114.8	1115.7	1116.6	1117.4	1117.3	1116.2	1115.2
162.5°	1133.9	1132.6	1131.2	1129.9	1131.2	1132.6	1133.9	1135.3	1135.5	1134.4	1133.3
165°	1157.2	1155.8	1154.3	1152.8	1154.3	1155.8	1157.2	1158.7	1158.9	1157.6	1156.3
167.5°	1176.2	1174.9	1173.6	1172.3	1173.6	1174.9	1176.2	1177.5	1177.5	1176.2	1174.9
170°	1186.7	1185.1	1183.7	1182.2	1183.7	1185.1	1186.7	1188.1	1188.1	1186.7	1185.1
172.5°	1194.2	1192.7	1191.2	1189.8	1191.2	1192.7	1194.2	1195.7	1195.8	1194.5	1193.2
175°	1202.7	1201.3	1199.8	1198.3	1199.8	1201.3	1202.7	1204.2	1204.3	1203.1	1201.8
177.5°	1206.4	1205.2	1204.0	1202.9	1204.0	1205.2	1206.4	1207.5	1207.6	1206.6	1205.7
180°	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9



TEST NUMBER: P332355-930

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1
2.5°	1237.1	1243.2	1249.5	1255.2	1264.1	1268.1	1273.9	1276.1	1282.8	1292.6	1300.6
5°	1161.8	1170.7	1182.3	1191.8	1206.8	1218.4	1231.2	1243.4	1257.8	1278.3	1296.7
7.5°	1098.0	1106.8	1120.8	1138.3	1154.9	1171.3	1188.8	1205.4	1226.0	1255.5	1284.7
10°	1055.9	1066.4	1083.0	1101.9	1122.4	1138.6	1159.0	1180.1	1205.7	1239.5	1274.5
12.5°	1019.5	1027.4	1046.7	1064.6	1087.9	1108.3	1128.5	1153.1	1182.1	1218.2	1260.3
15°	961.6	972.7	991.5	1011.5	1035.9	1057.5	1083.6	1113.5	1141.8	1186.3	1237.3
17.5°	903.4	920.2	939.9	962.5	980.5	1010.3	1038.7	1069.4	1104.2	1151.3	1207.3
20°	866.1	879.4	897.7	930.5	954.3	977.1	1003.1	1041.5	1073.6	1126.9	1185.1
22.5°	834.6	844.3	864.9	891.9	919.7	946.0	972.5	1009.0	1048.7	1099.3	1162.5
25°	787.9	803.4	819.0	838.4	868.3	899.9	928.8	959.9	1002.0	1055.9	1124.1
27.5°	742.2	756.4	771.7	795.5	818.2	847.8	878.0	913.6	958.9	1015.8	1085.0
30°	713.0	723.5	737.9	768.4	789.0	814.5	850.0	881.7	923.8	984.3	1057.5
32.5°	682.8	696.4	712.2	735.6	761.0	785.2	817.6	851.9	895.0	954.6	1029.6
35°	639.8	655.8	671.9	689.1	714.6	739.6	766.8	804.5	848.3	906.0	979.8
37.5°	600.1	613.1	626.1	647.5	671.7	695.5	720.8	758.0	799.3	861.5	929.3
40°	574.8	586.4	596.5	618.6	642.0	667.5	692.4	725.2	769.6	827.9	893.3
42.5°	547.3	558.1	571.6	589.8	614.9	636.4	661.4	692.4	734.0	793.2	850.7
45°	506.0	518.2	529.9	547.1	572.0	593.1	615.3	644.7	687.5	736.3	787.3
47.5°	463.1	475.2	488.6	505.2	527.0	548.4	570.6	596.6	635.6	683.5	718.0
50°	435.5	445.6	458.9	475.5	495.5	518.2	538.2	566.5	603.6	641.4	671.3
52.5°	407.2	416.2	431.3	448.9	467.5	487.1	508.4	532.7	566.4	601.9	625.7
55°	362.9	374.0	386.7	403.9	422.2	438.9	459.4	484.4	511.0	537.6	553.8
57.5°	321.5	330.7	341.4	359.2	375.0	394.9	413.4	432.8	457.4	477.5	488.0
60°	291.3	299.6	313.5	329.1	344.0	361.2	382.3	401.7	420.5	436.7	445.0
62.5°	262.9	272.6	284.6	298.8	315.1	331.5	349.8	366.2	382.9	396.7	402.4
65°	225.8	233.6	242.5	255.8	269.1	285.8	300.2	316.8	329.1	336.8	341.8
67.5°	192.1	197.2	204.0	212.9	225.9	240.4	254.5	267.4	277.6	283.0	287.4
70°	170.3	173.7	178.6	187.5	197.5	210.3	224.7	234.2	243.0	247.4	251.9
72.5°	148.5	152.8	157.4	164.4	172.7	181.9	192.3	204.0	208.9	214.2	216.9
75°	112.6	118.7	124.8	129.3	134.9	142.0	151.5	158.7	161.4	165.9	166.5
77.5°	85.0	86.3	90.7	96.3	101.0	106.2	112.2	118.6	119.9	122.3	123.8
80°	69.9	69.9	69.9	73.2	78.8	82.7	88.2	91.6	93.8	94.3	94.9
82.5°	56.2	56.2	55.7	56.3	58.4	60.5	65.6	69.4	71.1	70.8	69.5
85°	36.6	35.5	35.5	35.0	35.5	34.4	33.8	36.0	39.4	39.4	38.3
87.5°	19.8	19.2	19.1	18.1	17.1	16.1	14.3	14.3	13.9	15.2	14.4
90°	23.6	22.7	20.0	17.3	14.5	11.8	9.4	7.3	5.1	3.0	1.0
92.5°	37.0	36.4	34.8	33.3	31.7	30.2	28.6	27.2	25.8	24.4	22.9
95°	70.9	70.1	68.4	66.7	65.1	63.3	61.8	60.3	58.9	57.4	55.9
97.5°	110.6	109.7	108.4	107.3	106.1	104.8	103.6	102.6	101.5	100.4	99.3
100°	139.9	139.3	138.2	137.1	136.1	135.0	133.9	132.6	131.3	130.1	128.8
102.5°	173.3	172.6	171.2	169.8	168.4	167.1	166.0	165.2	164.4	163.7	162.9
105°	223.6	223.6	221.7	219.8	217.8	216.0	214.8	214.4	214.0	213.5	213.1
107.5°	276.7	276.1	275.2	274.5	273.8	273.0	272.5	272.2	272.0	271.7	271.5
110°	312.5	311.7	311.2	310.8	310.4	310.0	309.6	309.2	308.7	308.3	307.9



TEST NUMBER: P332355-930

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	348.3	347.2	347.2	347.1	347.0	346.9	346.7	346.5	346.3	346.0	345.8
115°	403.7	403.6	404.0	404.4	404.8	405.2	405.1	404.5	403.8	403.2	402.6
117.5°	459.2	459.3	459.8	460.3	460.9	461.5	461.5	461.1	460.6	460.2	459.8
120°	496.2	496.4	497.4	498.5	499.5	500.6	500.5	499.2	498.0	496.7	495.5
122.5°	533.7	534.3	534.8	535.3	535.9	536.5	536.3	535.3	534.4	533.5	532.6
125°	589.3	590.2	590.6	591.0	591.4	591.8	591.7	591.1	590.4	589.9	589.2
127.5°	644.3	645.5	646.0	646.4	646.9	647.3	646.9	645.6	644.2	642.9	641.5
130°	680.3	681.1	681.8	682.3	683.0	683.6	683.1	681.4	679.7	678.0	676.4
132.5°	715.7	716.7	717.1	717.6	718.1	718.6	718.0	716.2	714.6	712.9	711.2
135°	768.3	769.2	769.4	769.6	769.8	770.1	769.5	768.3	767.0	765.7	764.4
137.5°	820.0	820.9	820.4	819.8	819.3	818.7	817.9	816.8	815.8	814.7	813.8
140°	853.3	853.5	853.3	853.0	852.9	852.6	852.0	851.0	849.9	848.9	847.8
142.5°	885.1	885.3	884.9	884.6	884.2	883.8	883.1	882.1	881.0	880.0	878.9
145°	931.9	932.1	931.5	930.8	930.3	929.6	929.0	928.6	928.2	927.8	927.4
147.5°	975.9	975.9	975.3	974.7	974.1	973.5	972.9	972.1	971.3	970.6	969.8
150°	1003.1	1003.1	1002.7	1002.3	1001.9	1001.5	1001.1	1000.6	1000.2	999.8	999.4
152.5°	1027.8	1027.4	1027.2	1027.0	1026.6	1026.4	1026.0	1025.4	1024.8	1024.3	1023.6
155°	1063.7	1062.8	1062.7	1062.4	1062.3	1062.0	1061.9	1061.9	1061.9	1061.9	1061.9
157.5°	1095.0	1094.1	1094.0	1093.8	1093.6	1093.4	1093.5	1093.7	1094.0	1094.2	1094.5
160°	1114.1	1113.0	1113.0	1113.0	1113.0	1113.0	1113.3	1113.7	1114.1	1114.5	1114.9
162.5°	1132.3	1131.2	1131.1	1130.9	1130.7	1130.6	1130.8	1131.4	1132.0	1132.5	1133.1
165°	1155.0	1153.8	1153.8	1153.8	1153.8	1153.8	1154.1	1154.7	1155.4	1156.0	1156.7
167.5°	1173.6	1172.3	1172.2	1172.0	1171.8	1171.7	1172.0	1172.9	1173.7	1174.5	1175.4
170°	1183.7	1182.2	1182.2	1182.2	1182.2	1182.2	1182.6	1183.5	1184.3	1185.1	1186.0
172.5°	1191.9	1190.6	1190.6	1190.6	1190.6	1190.6	1191.0	1191.8	1192.6	1193.5	1194.3
175°	1200.5	1199.2	1199.2	1199.2	1199.2	1199.2	1199.7	1200.5	1201.3	1202.2	1203.1
177.5°	1204.6	1203.6	1203.6	1203.6	1203.6	1203.6	1204.0	1204.6	1205.3	1206.0	1206.6
180°	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1
2.5°	1303.2	1308.1	1314.3	1323.6	1330.7	1336.9	1338.2	1340.0	1344.5	1352.0	1357.8
5°	1311.7	1324.4	1344.9	1364.9	1386.6	1404.3	1420.9	1432.6	1443.7	1467.0	1485.9
7.5°	1309.0	1337.4	1369.5	1405.4	1441.7	1476.8	1509.5	1538.7	1567.7	1601.7	1640.5
10°	1307.2	1340.5	1383.7	1429.8	1480.3	1529.7	1577.4	1614.6	1657.8	1696.7	1746.0
12.5°	1298.8	1346.7	1398.4	1457.3	1519.4	1576.3	1639.1	1690.4	1740.0	1796.1	1853.5
15°	1287.8	1346.1	1411.5	1489.7	1584.0	1652.9	1717.2	1806.5	1867.6	1928.6	2010.8
17.5°	1267.7	1338.8	1420.6	1522.2	1600.9	1693.4	1790.2	1860.8	1943.0	2029.0	2103.4
20°	1251.7	1334.4	1426.0	1525.8	1626.2	1726.6	1820.4	1904.8	1989.7	2089.0	2150.0
22.5°	1235.7	1317.5	1412.6	1518.7	1626.7	1732.4	1838.6	1937.6	2033.1	2133.3	2211.3
25°	1201.8	1298.9	1402.1	1510.3	1616.8	1733.3	1859.8	1970.3	2088.4	2191.6	2265.4
27.5°	1167.3	1256.4	1359.1	1468.8	1587.3	1725.0	1873.8	1999.3	2117.7	2191.6	2214.8
30°	1136.3	1230.6	1324.9	1436.5	1564.6	1718.3	1876.5	2020.1	2117.3	2149.5	2125.6
32.5°	1104.8	1190.3	1283.7	1397.8	1534.0	1701.9	1880.0	2007.8	2066.2	2041.6	1944.5
35°	1049.2	1126.3	1216.8	1331.1	1487.5	1692.8	1865.4	1951.9	1937.5	1798.8	1615.7
37.5°	989.7	1052.6	1136.3	1255.8	1439.3	1656.8	1802.3	1815.1	1690.3	1477.3	1265.8
40°	942.6	999.2	1085.2	1210.1	1402.1	1621.2	1738.9	1687.3	1493.6	1256.7	1080.3
42.5°	896.9	944.7	1027.5	1162.1	1366.6	1572.9	1644.3	1531.9	1308.6	1084.5	924.1
45°	819.5	864.5	947.6	1085.8	1293.9	1480.3	1470.9	1275.5	1052.0	871.6	738.5
47.5°	746.0	785.3	863.4	1004.4	1208.5	1341.6	1253.4	1045.5	855.9	711.2	616.2
50°	694.1	733.0	810.7	949.9	1140.2	1237.3	1111.3	911.0	737.4	617.5	542.1
52.5°	644.4	682.3	753.3	889.1	1057.6	1115.7	980.4	794.8	650.0	546.5	481.7
55°	574.8	603.6	667.5	797.3	923.2	936.5	799.5	644.2	524.9	452.7	408.4
57.5°	503.9	528.7	591.8	695.2	783.5	776.7	646.7	512.3	432.0	378.4	346.3
60°	457.7	482.2	537.6	626.4	693.0	669.7	550.4	442.2	373.4	334.0	308.5
62.5°	414.7	433.7	485.7	550.5	598.4	572.0	470.5	381.0	326.4	293.2	273.0
65°	352.3	367.9	409.4	443.3	469.9	444.4	360.1	297.9	258.5	235.2	221.4
67.5°	293.1	303.0	329.2	341.4	360.2	332.2	270.8	229.2	206.8	187.1	177.4
70°	255.8	263.0	276.9	286.8	291.9	263.0	217.5	186.9	168.1	154.3	148.1
72.5°	218.5	224.9	227.6	235.8	233.3	206.2	174.9	150.6	137.1	127.6	119.8
75°	167.0	169.7	167.0	163.7	156.5	137.6	115.9	103.8	93.8	89.4	86.6
77.5°	121.7	120.8	117.1	111.9	99.5	87.6	76.0	71.9	67.6	65.2	64.2
80°	93.8	91.6	88.2	79.9	69.4	61.1	58.3	55.5	53.8	51.0	50.5
82.5°	69.8	68.5	62.9	55.9	48.5	44.6	42.3	41.3	39.6	38.2	38.1
85°	37.2	35.5	29.4	25.5	24.4	23.3	22.7	22.7	20.5	20.0	20.0
87.5°	12.6	10.4	10.4	9.5	9.9	9.5	10.5	10.2	10.4	10.9	10.2
90°	3.0	5.1	7.3	9.4	11.8	14.5	17.3	20.0	22.7	23.6	24.5
92.5°	24.4	25.8	27.2	28.6	30.2	31.7	33.3	34.8	36.4	37.0	37.7
95°	57.4	58.9	60.3	61.8	63.3	65.1	66.7	68.4	70.1	70.9	71.7
97.5°	100.4	101.5	102.6	103.6	104.8	106.1	107.3	108.4	109.7	110.6	111.6
100°	130.1	131.3	132.6	133.9	135.0	136.1	137.1	138.2	139.3	139.9	140.5
102.5°	163.7	164.4	165.2	166.0	167.1	168.4	169.8	171.2	172.6	173.3	173.8
105°	213.5	214.0	214.4	214.8	216.0	217.8	219.8	221.7	223.6	223.6	223.6
107.5°	271.7	272.0	272.2	272.5	273.0	273.8	274.5	275.2	276.1	276.7	277.4
110°	308.3	308.7	309.2	309.6	310.0	310.4	310.8	311.2	311.7	312.5	313.3





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	346.0	346.3	346.5	346.7	346.9	347.0	347.1	347.2	347.2	348.3	349.3
115°	403.2	403.8	404.5	405.1	405.2	404.8	404.4	404.0	403.6	403.7	404.0
117.5°	460.2	460.6	461.1	461.5	461.5	460.9	460.3	459.8	459.3	459.2	459.2
120°	496.7	498.0	499.2	500.5	500.6	499.5	498.5	497.4	496.4	496.2	495.9
122.5°	533.5	534.4	535.3	536.3	536.5	535.9	535.3	534.8	534.3	533.7	533.2
125°	589.9	590.4	591.1	591.7	591.8	591.4	591.0	590.6	590.2	589.3	588.5
127.5°	642.9	644.2	645.6	646.9	647.3	646.9	646.4	646.0	645.5	644.3	643.1
130°	678.0	679.7	681.4	683.1	683.6	683.0	682.3	681.8	681.1	680.3	679.4
132.5°	712.9	714.6	716.2	718.0	718.6	718.1	717.6	717.1	716.7	715.7	714.7
135°	765.7	767.0	768.3	769.5	770.1	769.8	769.6	769.4	769.2	768.3	767.5
137.5°	814.7	815.8	816.8	817.9	818.7	819.3	819.8	820.4	820.9	820.0	819.1
140°	848.9	849.9	851.0	852.0	852.6	852.9	853.0	853.3	853.5	853.3	853.0
142.5°	880.0	881.0	882.1	883.1	883.8	884.2	884.6	884.9	885.3	885.1	884.9
145°	927.8	928.2	928.6	929.0	929.6	930.3	930.8	931.5	932.1	931.9	931.7
147.5°	970.6	971.3	972.1	972.9	973.5	974.1	974.7	975.3	975.9	975.9	975.9
150°	999.8	1000.2	1000.6	1001.1	1001.5	1001.9	1002.3	1002.7	1003.1	1003.1	1003.1
152.5°	1024.3	1024.8	1025.4	1026.0	1026.4	1026.6	1027.0	1027.2	1027.4	1027.8	1028.1
155°	1061.9	1061.9	1061.9	1061.9	1062.0	1062.3	1062.4	1062.7	1062.8	1063.7	1064.5
157.5°	1094.2	1094.0	1093.7	1093.5	1093.4	1093.6	1093.8	1094.0	1094.1	1095.0	1095.8
160°	1114.5	1114.1	1113.7	1113.3	1113.0	1113.0	1113.0	1113.0	1113.0	1114.1	1115.2
162.5°	1132.5	1132.0	1131.4	1130.8	1130.6	1130.7	1130.9	1131.1	1131.2	1132.3	1133.3
165°	1156.0	1155.4	1154.7	1154.1	1153.8	1153.8	1153.8	1153.8	1153.8	1155.0	1156.3
167.5°	1174.5	1173.7	1172.9	1172.0	1171.7	1171.8	1172.0	1172.2	1172.3	1173.6	1174.9
170°	1185.1	1184.3	1183.5	1182.6	1182.2	1182.2	1182.2	1182.2	1182.2	1183.7	1185.1
172.5°	1193.5	1192.6	1191.8	1191.0	1190.6	1190.6	1190.6	1190.6	1190.6	1191.9	1193.2
175°	1202.2	1201.3	1200.5	1199.7	1199.2	1199.2	1199.2	1199.2	1199.2	1200.5	1201.8
177.5°	1206.0	1205.3	1204.6	1204.0	1203.6	1203.6	1203.6	1203.6	1203.6	1204.6	1205.7
180°	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1
2.5°	1367.1	1367.1	1368.9	1375.6	1376.5	1382.2	1380.5
5°	1502.5	1513.0	1516.9	1533.6	1543.5	1548.0	1539.1
7.5°	1668.1	1697.8	1711.9	1729.3	1744.7	1749.4	1737.3
10°	1788.8	1819.8	1845.9	1862.1	1877.0	1887.0	1899.7
12.5°	1905.5	1943.7	1968.5	1991.2	2006.6	2019.3	2021.4
15°	2032.4	2090.1	2133.9	2166.1	2182.1	2190.5	2187.2
17.5°	2160.3	2213.8	2245.0	2277.9	2300.1	2301.3	2301.9
20°	2232.7	2284.8	2320.9	2345.3	2370.2	2369.2	2374.7
22.5°	2281.0	2322.1	2349.8	2367.5	2376.0	2371.8	2372.9
25°	2303.7	2315.9	2310.9	2282.6	2275.4	2249.3	2253.7
27.5°	2187.0	2129.2	2069.6	1992.8	1932.2	1883.7	1886.2
30°	2028.5	1926.4	1809.9	1712.2	1624.6	1600.2	1548.0
32.5°	1807.0	1653.8	1517.4	1426.4	1351.1	1330.7	1285.2
35°	1431.5	1282.8	1142.4	1058.1	1024.7	978.2	977.6
37.5°	1112.6	981.7	907.5	844.2	811.1	782.9	780.1
40°	936.0	833.9	777.9	732.4	699.7	678.6	673.6
42.5°	812.6	730.0	677.6	649.4	624.2	613.3	605.2
45°	663.6	608.1	571.4	545.9	534.3	525.9	521.5
47.5°	555.1	517.9	492.9	476.0	466.5	457.7	460.1
50°	496.0	465.5	447.2	431.1	423.9	417.8	418.3
52.5°	448.5	421.1	406.3	394.7	385.7	381.4	379.3
55°	380.6	363.4	348.5	340.1	335.1	329.1	327.3
57.5°	324.7	311.4	299.1	289.8	288.5	282.7	283.4
60°	287.4	276.3	266.4	261.3	257.5	252.4	254.1
62.5°	256.8	247.4	238.4	234.2	230.4	226.7	227.5
65°	210.3	201.4	195.8	193.6	192.0	190.3	188.7
67.5°	167.5	162.2	158.7	153.9	150.5	149.9	148.2
70°	141.0	133.7	127.6	121.5	119.8	119.3	119.8
72.5°	113.0	108.4	106.7	103.8	103.5	102.0	103.0
75°	84.9	83.2	82.1	79.9	79.9	79.9	79.9
77.5°	62.6	61.6	60.9	60.5	59.9	59.1	59.0
80°	48.8	48.3	47.1	47.1	46.6	47.1	46.6
82.5°	36.9	36.8	35.6	35.6	35.1	34.7	35.1
85°	18.8	18.3	19.4	18.3	18.8	17.8	18.8
87.5°	10.4	10.5	10.2	10.4	9.9	10.9	10.1
90°	25.3	26.1	26.7	27.1	27.6	28.0	28.5
92.5°	38.4	39.1	39.3	39.1	38.8	38.5	38.2
95°	72.6	73.5	73.9	73.9	73.9	73.9	73.9
97.5°	112.6	113.6	114.0	113.9	113.8	113.7	113.7
100°	141.1	141.8	142.3	142.8	143.2	143.6	144.0
102.5°	174.5	175.1	175.4	175.3	175.2	175.1	175.0
105°	223.6	223.6	223.8	224.2	224.6	225.0	225.4
107.5°	278.1	278.8	278.9	278.7	278.4	278.2	277.9
110°	314.2	315.0	315.2	314.8	314.4	314.0	313.6



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	350.3	351.3	351.8	351.7	351.6	351.6	351.5
115°	404.1	404.4	404.4	404.1	404.0	403.7	403.6
117.5°	459.1	459.1	458.8	458.2	457.5	457.0	456.4
120°	495.8	495.5	495.2	494.8	494.4	494.0	493.5
122.5°	532.6	532.1	531.5	530.9	530.4	529.7	529.1
125°	587.7	586.8	586.0	585.1	584.2	583.4	582.6
127.5°	642.0	640.7	639.7	638.7	637.7	636.7	635.9
130°	678.6	677.8	676.5	675.1	673.6	672.1	670.7
132.5°	713.7	712.7	711.6	710.5	709.3	708.2	707.0
135°	766.6	765.8	765.2	764.8	764.3	763.9	763.5
137.5°	818.2	817.3	816.5	815.7	815.0	814.2	813.3
140°	852.9	852.6	851.8	850.4	848.9	847.4	846.0
142.5°	884.7	884.5	883.8	882.6	881.5	880.4	879.3
145°	931.5	931.3	930.7	929.9	929.0	928.2	927.4
147.5°	975.9	975.9	975.3	974.0	972.7	971.4	970.2
150°	1003.1	1003.1	1002.6	1001.3	1000.0	998.7	997.5
152.5°	1028.4	1028.7	1028.4	1027.3	1026.2	1025.1	1024.0
155°	1065.4	1066.2	1065.9	1064.5	1063.0	1061.5	1060.0
157.5°	1096.7	1097.6	1097.5	1096.3	1095.1	1094.0	1092.7
160°	1116.2	1117.3	1117.4	1116.6	1115.7	1114.8	1114.0
162.5°	1134.4	1135.5	1135.3	1133.9	1132.6	1131.2	1129.9
165°	1157.6	1158.9	1158.7	1157.2	1155.8	1154.3	1152.8
167.5°	1176.2	1177.5	1177.5	1176.2	1174.9	1173.6	1172.3
170°	1186.7	1188.1	1188.1	1186.7	1185.1	1183.7	1182.2
172.5°	1194.5	1195.8	1195.7	1194.2	1192.7	1191.2	1189.8
175°	1203.1	1204.3	1204.2	1202.7	1201.3	1199.8	1198.3
177.5°	1206.6	1207.6	1207.5	1206.4	1205.2	1204.0	1202.9
180°	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9	1205.9

(END OF REPORT)