

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: P332438-940

Luminaire Tested: **S123RDIW-S775D1030U940-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332438-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIW-S775D1030U940-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 775 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1030 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6395.0 lumens
Efficiency: N/A
Efficacy: 121.6 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

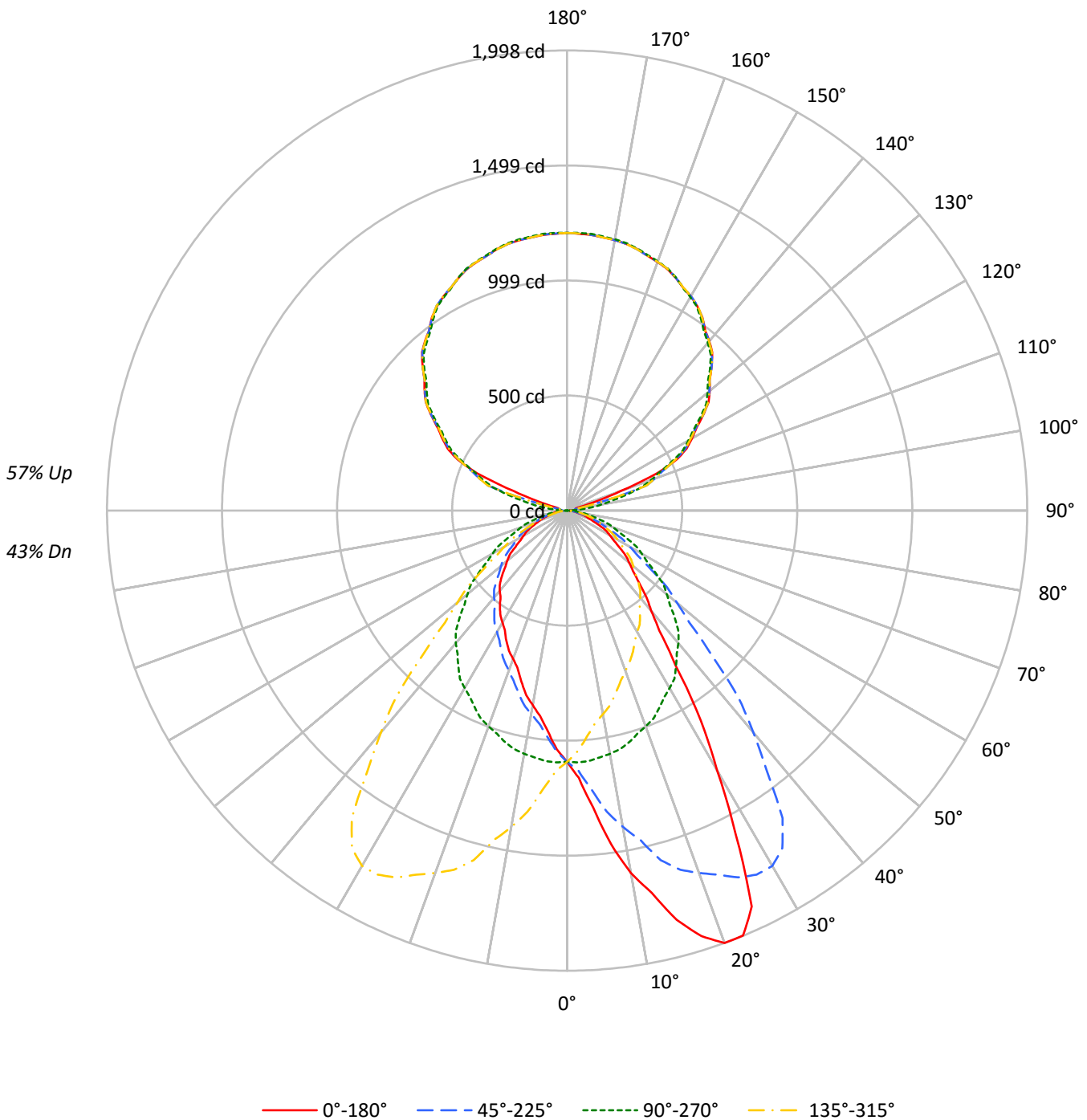
Input Watts (W): 52.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0		
RCR																										
0	105	105	105	105	96	96	96	96	79	79	79	64	64	64	49	49	49	43								
1	97	93	89	86	88	85	82	79	70	68	66	57	55	54	44	43	43	37								
2	88	81	76	71	81	75	70	65	62	58	55	50	48	46	40	38	37	32								
3	81	72	65	59	74	66	60	55	55	51	47	45	42	39	35	33	32	27								
4	74	64	56	51	68	59	52	47	49	44	41	40	37	34	32	30	28	24								
5	68	57	49	44	62	53	46	41	44	39	35	36	33	30	29	26	24	21								
6	63	51	44	38	57	47	41	36	40	35	31	33	29	26	26	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	22	20	18	15								
9	50	39	31	26	46	36	29	25	30	25	22	25	22	19	21	18	16	14								
10	47	35	28	24	43	33	27	22	28	23	20	24	20	17	19	16	14	13								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11739	11739	11739	11739
5°	13993	11788	10381	11788
10°	17472	11721	9379	11721
15°	20508	11602	8553	11602
20°	22888	11423	7851	11423
25°	22523	11233	7418	11233
30°	16189	11059	6975	11059
35°	10809	10834	6687	10834
40°	7964	10561	6389	10561
45°	6680	10085	6098	10085
50°	5894	9460	5690	9460
55°	5168	8743	5134	8743
60°	4603	8060	4704	8060
65°	4042	7325	4376	7325
70°	3175	6672	3997	6672
75°	2795	5827	3647	5827
80°	2430	4947	3589	4947
85°	1964	3977	3816	3977



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.2	1.7
10°-20°	335.1	5.2
20°-30°	526.4	8.2
30°-40°	549.2	8.6
40°-50°	470.0	7.3
50°-60°	358.2	5.6
60°-70°	229.6	3.6
70°-80°	110.5	1.7
80°-90°	32.6	0.5
90°-100°	43.8	0.7
100°-110°	208.9	3.3
110°-120°	501.7	7.8
120°-130°	638.9	10.0
130°-140°	682.7	10.7
140°-150°	638.4	10.0
150°-160°	514.9	8.1
160°-170°	332.3	5.2
170°-180°	114.5	1.8
0°-30°	968.7	15.1
0°-40°	1517.9	23.7
0°-60°	2346.1	36.7
0°-90°	2718.7	42.5
90°-120°	754.5	11.8
90°-150°	2714.5	42.4
90°-180°	3676.0	57.5
0°-180°	6395.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1091	1091	1091	1091	1091	
5°	1295	1091	961	1091	1295	134
15°	1840	1041	768	1041	1840	522
25°	1896	946	625	946	1896	815
35°	823	824	509	824	823	539
45°	439	662	401	662	439	345
55°	275	466	274	466	275	249
65°	159	288	172	288	159	156
75°	67	140	88	140	67	72
85°	16	32	31	32	16	19
90°	27	1	27	1	27	13
95°	34	55	34	55	34	28
105°	39	267	39	267	39	90
115°	527	501	527	501	527	487
125°	720	706	720	706	720	643
135°	888	879	888	879	888	684
145°	1024	1014	1024	1014	1024	639
155°	1115	1117	1115	1117	1115	514
165°	1175	1178	1175	1178	1175	332
175°	1201	1206	1201	1206	1201	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°	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6
2.5°	1161.5	1163.1	1158.2	1157.4	1151.8	1150.3	1150.3	1142.5	1137.6	1131.3	1127.6
5°	1295.0	1302.5	1298.8	1290.4	1276.4	1273.1	1264.3	1250.3	1234.4	1214.8	1205.4
7.5°	1461.8	1472.0	1468.1	1455.1	1440.5	1428.6	1403.6	1380.3	1347.7	1319.1	1294.7
10°	1598.5	1587.8	1579.4	1566.7	1553.3	1531.2	1505.1	1469.2	1427.6	1395.0	1358.5
12.5°	1700.8	1699.1	1688.5	1675.4	1656.4	1635.5	1603.4	1559.6	1511.3	1464.1	1422.5
15°	1840.3	1843.2	1836.1	1822.6	1795.5	1758.6	1710.1	1691.8	1622.8	1571.5	1520.1
17.5°	1936.9	1936.4	1935.4	1916.6	1889.0	1862.8	1817.8	1769.9	1707.3	1635.0	1565.8
20°	1998.1	1993.5	1994.4	1973.4	1952.8	1922.5	1878.7	1809.1	1757.7	1674.2	1602.7
22.5°	1996.6	1995.7	1999.3	1992.1	1977.1	1953.9	1919.3	1860.6	1795.1	1710.7	1630.3
25°	1896.4	1892.7	1914.6	1920.7	1944.5	1948.7	1938.4	1906.2	1844.1	1757.2	1657.8
27.5°	1587.2	1585.1	1625.8	1676.8	1741.3	1791.6	1840.1	1863.6	1844.1	1781.9	1682.3
30°	1302.5	1346.4	1367.0	1440.7	1522.9	1621.0	1706.8	1788.5	1808.6	1781.5	1699.8
32.5°	1081.5	1119.7	1136.8	1200.2	1276.8	1391.6	1520.5	1636.1	1717.9	1738.6	1689.3
35°	822.6	823.0	862.3	890.3	961.3	1079.3	1204.5	1359.5	1513.5	1630.2	1642.4
37.5°	656.4	658.7	682.4	710.3	763.6	826.1	936.2	1065.1	1243.0	1422.2	1527.2
40°	566.8	571.0	588.7	616.3	654.5	701.7	787.6	909.0	1057.4	1256.8	1419.7
42.5°	509.3	516.0	525.2	546.4	570.2	614.3	683.8	777.5	912.5	1101.0	1289.0
45°	438.8	442.6	449.6	459.4	480.9	511.7	558.4	621.3	733.4	885.2	1073.3
47.5°	387.1	385.1	392.5	400.5	414.7	435.8	467.1	518.5	598.4	720.1	879.8
50°	352.0	351.5	356.7	362.7	376.3	391.7	417.4	456.1	519.6	620.5	766.6
52.5°	319.1	320.9	324.6	332.2	341.9	354.4	377.4	405.3	459.9	546.9	668.7
55°	275.4	276.9	282.0	286.1	293.2	305.8	320.3	343.6	380.9	441.7	542.0
57.5°	238.4	237.8	242.7	243.8	251.7	262.0	273.2	291.3	318.4	363.5	431.1
60°	213.8	212.4	216.6	219.9	224.1	232.5	241.8	259.6	281.1	314.1	372.1
62.5°	191.5	190.7	193.9	197.1	200.5	208.2	216.1	229.7	246.6	274.6	320.6
65°	158.7	160.2	161.5	162.9	164.8	169.4	176.9	186.3	198.0	217.6	250.7
67.5°	124.8	126.2	126.6	129.5	133.5	136.4	141.0	149.3	157.4	174.0	192.8
70°	100.9	100.4	100.9	102.3	107.4	112.5	118.6	124.7	129.7	141.4	157.3
72.5°	86.7	85.8	87.0	87.3	89.8	91.2	95.1	100.8	107.4	115.3	126.7
75°	67.2	67.2	67.2	67.2	69.1	70.0	71.4	72.9	75.2	78.9	87.3
77.5°	49.7	49.8	50.4	50.9	51.3	51.8	52.7	54.0	54.9	56.9	60.5
80°	39.2	39.7	39.2	39.7	39.7	40.6	41.1	42.4	43.0	45.3	46.7
82.5°	29.5	29.2	29.5	30.0	30.0	30.9	31.0	32.0	32.1	33.3	34.8
85°	15.9	15.0	15.9	15.4	16.3	15.4	15.9	16.8	16.8	17.3	19.2
87.5°	9.1	9.8	8.9	9.3	9.2	9.5	9.3	9.1	9.7	9.2	9.0
90°	26.8	26.5	26.0	25.7	25.2	24.7	23.9	23.1	22.3	21.5	18.9
92.5°	29.7	29.5	29.2	29.0	28.8	28.0	26.8	25.5	24.2	22.9	21.0
95°	34.1	34.1	34.1	34.1	34.1	33.3	31.9	30.6	29.2	27.7	25.6
97.5°	36.9	36.7	36.5	36.3	36.1	35.2	33.6	32.0	30.4	28.8	43.2
100°	37.6	37.5	37.2	37.0	36.8	35.9	34.3	32.7	31.1	29.5	60.6
102.5°	38.3	38.0	37.6	37.3	36.9	39.1	44.1	49.0	54.0	58.9	92.8
105°	39.4	39.0	38.6	38.3	37.8	55.2	90.4	125.7	161.0	196.2	214.1
107.5°	123.8	150.3	176.9	203.4	230.0	256.2	282.0	307.8	333.7	359.5	356.7
110°	246.3	274.7	303.2	331.7	360.2	377.6	384.2	390.8	397.3	403.9	401.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	422.6	428.6	434.6	440.6	446.6	449.5	449.4	449.3	449.2	449.1	446.9
115°	526.6	525.8	525.0	524.2	523.4	522.1	520.0	518.1	516.1	514.1	512.3
117.5°	585.1	584.9	584.7	584.5	584.4	583.5	581.9	580.3	578.7	577.1	576.2
120°	625.2	625.2	625.2	625.2	625.2	624.4	622.8	621.2	619.6	618.0	617.4
122.5°	664.6	664.4	664.2	664.1	664.0	663.3	662.2	661.0	660.0	658.8	658.1
125°	720.1	719.7	719.3	718.9	718.5	718.1	717.7	717.3	716.9	716.5	715.7
127.5°	773.5	773.9	774.3	774.6	775.1	775.0	774.3	773.6	773.0	772.4	771.4
130°	807.9	808.2	808.7	809.0	809.5	809.2	808.4	807.7	806.9	806.1	805.3
132.5°	839.4	840.0	840.5	841.1	841.6	841.5	840.7	839.9	839.1	838.3	837.7
135°	887.6	888.1	888.8	889.4	889.9	889.9	889.4	888.8	888.1	887.6	886.8
137.5°	932.9	933.3	933.7	934.1	934.5	934.2	933.3	932.3	931.3	930.4	930.0
140°	960.1	960.6	960.9	961.4	961.7	961.5	960.7	959.9	959.1	958.3	957.7
142.5°	985.2	985.8	986.3	986.9	987.4	987.4	986.8	986.1	985.5	984.8	984.3
145°	1023.7	1023.7	1023.7	1023.7	1023.7	1023.5	1023.1	1022.7	1022.3	1021.9	1021.5
147.5°	1052.4	1053.3	1054.2	1055.2	1056.1	1056.3	1055.9	1055.5	1055.1	1054.7	1054.3
150°	1073.9	1074.5	1075.0	1075.7	1076.3	1076.4	1075.9	1075.6	1075.1	1074.8	1074.3
152.5°	1091.1	1092.0	1092.9	1093.8	1094.8	1094.8	1094.1	1093.4	1092.7	1092.0	1091.7
155°	1115.1	1116.2	1117.5	1118.7	1119.8	1120.0	1118.9	1117.9	1117.0	1116.0	1115.8
157.5°	1135.3	1136.8	1138.4	1140.0	1141.5	1141.7	1140.5	1139.3	1138.1	1136.9	1137.1
160°	1148.2	1149.6	1151.0	1152.4	1153.8	1153.9	1152.7	1151.5	1150.3	1149.1	1149.3
162.5°	1160.4	1161.6	1162.9	1164.1	1165.3	1165.3	1164.0	1162.5	1161.2	1159.8	1160.0
165°	1175.1	1176.4	1177.9	1179.3	1180.6	1180.5	1178.9	1177.3	1175.8	1174.2	1174.4
167.5°	1185.6	1187.2	1188.8	1190.4	1192.0	1192.0	1190.4	1188.8	1187.2	1185.6	1185.6
170°	1192.1	1193.6	1195.2	1196.9	1198.5	1198.5	1196.9	1195.2	1193.6	1192.1	1192.1
172.5°	1195.7	1197.4	1199.2	1201.0	1202.7	1202.7	1201.1	1199.6	1198.0	1196.4	1196.2
175°	1201.0	1202.7	1204.3	1205.9	1207.5	1207.6	1206.1	1204.7	1203.4	1201.9	1201.8
177.5°	1202.7	1204.3	1205.9	1207.5	1209.1	1209.2	1207.9	1206.7	1205.4	1204.1	1203.9
180°	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6
2.5°	1126.1	1124.9	1119.7	1113.7	1105.9	1100.6	1096.5	1094.3	1087.6	1079.3	1073.8
5°	1195.6	1181.6	1166.7	1148.4	1131.7	1114.4	1103.7	1091.0	1075.7	1058.4	1046.2
7.5°	1270.2	1242.7	1213.1	1182.6	1152.4	1125.3	1101.4	1080.9	1056.4	1031.6	1014.3
10°	1327.3	1287.1	1245.5	1203.1	1164.3	1127.9	1099.9	1072.4	1042.9	1014.5	993.0
12.5°	1379.2	1326.3	1278.4	1226.3	1176.7	1133.2	1092.8	1060.4	1025.0	994.7	970.2
15°	1444.9	1390.8	1332.8	1253.5	1187.7	1132.6	1083.6	1041.1	998.2	960.8	937.0
17.5°	1506.4	1424.9	1347.1	1280.9	1195.3	1126.5	1066.7	1015.8	968.8	929.2	899.8
20°	1531.8	1452.9	1368.3	1283.9	1199.8	1122.8	1053.2	997.2	948.2	903.4	876.3
22.5°	1547.0	1457.7	1368.7	1277.9	1188.7	1108.6	1039.8	978.1	925.1	882.4	849.0
25°	1564.9	1458.5	1360.4	1270.8	1179.7	1092.9	1011.2	945.8	888.4	843.1	807.6
27.5°	1576.6	1451.4	1335.6	1235.9	1143.6	1057.1	982.2	913.0	854.7	806.8	768.7
30°	1578.9	1445.8	1316.5	1208.7	1114.8	1035.5	956.1	889.8	828.2	777.3	741.8
32.5°	1581.9	1432.0	1290.8	1176.2	1080.1	1001.5	929.6	866.3	803.2	753.0	716.8
35°	1569.6	1424.4	1251.6	1120.0	1023.8	947.7	882.8	824.5	762.4	713.8	676.9
37.5°	1516.5	1394.0	1211.1	1056.7	956.1	885.6	832.8	781.9	725.0	672.5	637.8
40°	1463.1	1364.1	1179.7	1018.2	913.2	840.8	793.2	751.6	696.5	647.6	610.2
42.5°	1383.6	1323.5	1149.9	977.9	864.6	794.9	754.7	715.8	667.4	617.7	582.6
45°	1237.6	1245.5	1088.7	913.6	797.4	727.4	689.6	662.5	619.6	578.5	542.5
47.5°	1054.6	1128.8	1016.9	845.2	726.5	660.8	627.8	604.1	575.2	534.8	502.0
50°	935.1	1041.1	959.4	799.2	682.1	616.7	584.1	564.9	539.7	507.9	476.6
52.5°	824.9	938.8	889.9	748.1	633.9	574.2	542.2	526.5	506.4	476.5	448.3
55°	672.7	788.1	776.9	670.8	561.6	507.9	483.7	465.9	452.4	430.0	407.6
57.5°	544.2	653.5	659.3	585.0	497.9	444.9	424.0	410.6	401.8	384.9	364.2
60°	463.2	563.5	583.1	527.1	452.4	405.7	385.1	374.4	367.4	353.9	338.0
62.5°	395.9	481.3	503.5	463.2	408.7	365.0	348.9	338.6	333.8	322.1	308.1
65°	303.0	374.0	395.4	373.0	344.6	309.5	296.5	287.6	283.4	276.9	266.5
67.5°	227.8	279.6	303.1	287.3	277.1	254.9	246.6	241.8	238.1	233.6	225.1
70°	183.0	221.3	245.6	241.4	233.0	221.3	215.3	212.0	208.2	204.5	197.0
72.5°	147.1	173.5	196.3	198.4	191.5	189.1	183.9	182.4	180.2	175.8	171.7
75°	97.6	115.7	131.6	137.7	140.5	142.9	140.5	140.1	139.6	135.9	133.5
77.5°	63.9	73.7	83.7	94.1	98.5	101.7	102.5	104.2	102.9	100.9	99.8
80°	49.0	51.4	58.3	67.2	74.2	77.0	78.9	79.8	79.4	78.9	77.0
82.5°	35.6	37.5	40.8	47.1	53.0	57.6	58.8	58.6	59.6	59.8	58.3
85°	19.2	19.6	20.5	21.5	24.7	29.9	31.3	32.2	33.2	33.2	30.3
87.5°	9.3	8.4	8.6	8.1	8.8	8.8	10.7	12.1	12.9	11.8	12.2
90°	16.3	13.7	11.1	8.8	6.9	4.9	2.9	0.9	2.9	4.9	6.9
92.5°	19.0	17.1	15.2	14.4	15.0	15.5	16.1	16.7	16.1	15.5	15.0
95°	23.4	21.2	19.0	22.0	30.1	38.3	46.5	54.7	46.5	38.3	30.1
97.5°	57.5	71.9	86.1	95.1	98.8	102.5	106.1	109.8	106.1	102.5	98.8
100°	91.7	122.7	153.7	167.3	163.3	159.3	155.3	151.3	155.3	159.3	163.3
102.5°	126.8	160.7	194.6	210.1	207.2	204.4	201.5	198.7	201.5	204.4	207.2
105°	231.9	249.9	267.8	275.6	273.5	271.3	269.1	266.9	269.1	271.3	273.5
107.5°	353.8	351.1	348.2	345.9	344.2	342.4	340.6	338.9	340.6	342.4	344.2
110°	399.6	397.3	395.2	393.2	391.7	390.1	388.5	386.9	388.5	390.1	391.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	444.7	442.5	440.3	438.5	437.1	435.6	434.2	432.7	434.2	435.6	437.1
115°	510.5	508.7	506.9	505.4	504.3	503.0	501.9	500.7	501.9	503.0	504.3
117.5°	575.3	574.4	573.5	572.3	570.8	569.4	567.8	566.4	567.8	569.4	570.8
120°	616.8	616.2	615.6	614.4	612.6	610.8	609.0	607.3	609.0	610.8	612.6
122.5°	657.3	656.6	655.8	654.7	653.2	651.8	650.2	648.8	650.2	651.8	653.2
125°	714.9	714.1	713.4	712.1	710.5	708.9	707.4	705.8	707.4	708.9	710.5
127.5°	770.5	769.5	768.6	767.3	765.7	764.1	762.5	760.9	762.5	764.1	765.7
130°	804.5	803.7	802.9	801.7	800.1	798.5	796.9	795.3	796.9	798.5	800.1
132.5°	837.0	836.4	835.8	834.6	833.0	831.4	829.9	828.3	829.9	831.4	833.0
135°	886.0	885.2	884.4	883.4	882.2	881.0	879.9	878.6	879.9	881.0	882.2
137.5°	929.5	929.1	928.6	927.6	926.1	924.6	923.1	921.6	923.1	924.6	926.1
140°	957.2	956.5	955.9	955.0	953.9	952.7	951.5	950.3	951.5	952.7	953.9
142.5°	983.6	983.0	982.5	981.6	980.3	979.2	977.9	976.8	977.9	979.2	980.3
145°	1021.1	1020.7	1020.3	1019.4	1018.1	1016.6	1015.2	1013.9	1015.2	1016.6	1018.1
147.5°	1053.9	1053.5	1053.1	1052.5	1051.5	1050.6	1049.7	1048.8	1049.7	1050.6	1051.5
150°	1074.0	1073.5	1073.2	1072.6	1072.1	1071.5	1070.9	1070.3	1070.9	1071.5	1072.1
152.5°	1091.5	1091.3	1091.0	1090.7	1090.5	1090.2	1089.9	1089.7	1089.9	1090.2	1090.5
155°	1115.5	1115.4	1115.2	1115.3	1115.7	1116.1	1116.4	1116.9	1116.4	1116.1	1115.7
157.5°	1137.3	1137.6	1137.7	1137.8	1137.9	1137.9	1138.0	1138.0	1138.0	1137.9	1137.9
160°	1149.5	1149.7	1149.9	1150.1	1150.3	1150.5	1150.7	1150.9	1150.7	1150.5	1150.3
162.5°	1160.3	1160.5	1160.7	1161.0	1161.5	1162.1	1162.5	1163.1	1162.5	1162.1	1161.5
165°	1174.6	1174.7	1175.0	1175.4	1176.0	1176.6	1177.1	1177.8	1177.1	1176.6	1176.0
167.5°	1185.6	1185.6	1185.6	1186.1	1186.9	1187.7	1188.5	1189.2	1188.5	1187.7	1186.9
170°	1192.1	1192.1	1192.1	1192.5	1193.3	1194.1	1194.9	1195.7	1194.9	1194.1	1193.3
172.5°	1196.1	1195.9	1195.8	1196.1	1197.1	1198.1	1199.0	1200.0	1199.0	1198.1	1197.1
175°	1201.6	1201.3	1201.1	1201.6	1202.6	1203.5	1204.5	1205.5	1204.5	1203.5	1202.6
177.5°	1203.8	1203.6	1203.5	1203.8	1204.6	1205.4	1206.1	1206.9	1206.1	1205.4	1204.6
180°	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6
2.5°	1071.9	1067.0	1063.7	1056.2	1051.3	1046.2	1040.9	1044.3	1043.9	1043.5	1043.5
5°	1036.0	1025.2	1015.4	1002.8	994.9	985.1	977.6	976.7	978.6	972.0	968.2
7.5°	1000.3	985.6	971.7	957.8	943.1	931.3	923.9	920.4	915.7	911.7	907.5
10°	975.3	958.0	944.4	927.2	911.3	897.3	888.4	882.3	879.0	875.8	869.8
12.5°	949.5	932.6	915.3	895.8	880.7	864.4	857.8	851.0	844.7	841.1	832.8
15°	911.8	889.8	871.6	851.0	834.3	818.4	809.0	795.5	793.6	789.0	780.6
17.5°	874.0	850.2	825.0	809.9	790.9	774.4	760.1	755.5	742.2	737.2	729.9
20°	844.1	822.2	803.0	782.9	755.4	739.9	728.8	722.7	711.9	705.4	700.7
22.5°	818.3	796.0	773.8	750.5	727.7	710.4	702.2	692.8	687.0	677.8	672.7
25°	781.5	757.2	730.7	705.4	689.1	676.0	662.9	654.5	646.1	641.9	632.6
27.5°	738.8	713.4	688.5	669.4	649.3	636.4	624.6	617.1	607.0	599.9	594.8
30°	715.2	685.4	663.9	646.6	620.9	608.8	599.9	590.6	583.1	575.6	570.5
32.5°	688.0	660.7	640.3	618.9	599.2	586.0	574.5	566.3	559.9	552.9	547.7
35°	645.2	622.3	601.3	579.8	565.3	551.8	538.3	531.3	525.2	518.7	514.0
37.5°	606.5	585.1	565.2	544.8	526.9	515.9	505.0	499.6	491.4	487.1	482.2
40°	582.6	561.6	540.1	520.6	501.9	493.5	483.7	475.7	468.2	465.0	459.9
42.5°	556.5	535.5	517.4	496.2	481.0	469.6	460.5	451.8	446.2	441.5	438.5
45°	517.7	499.1	481.3	460.3	445.9	436.0	425.8	417.9	412.7	409.5	404.3
47.5°	480.1	461.5	443.4	425.1	411.1	399.9	389.7	384.1	377.3	373.3	369.9
50°	452.8	436.0	416.9	400.1	386.1	374.9	366.5	359.4	353.4	348.3	346.0
52.5°	427.8	409.9	393.3	377.7	362.9	350.3	342.6	335.2	330.6	324.8	322.0
55°	386.6	369.3	355.3	339.8	325.4	314.7	305.3	298.8	294.1	287.6	283.8
57.5°	347.8	332.3	315.6	302.2	287.3	278.2	270.5	261.6	255.9	250.8	247.2
60°	321.6	303.9	289.4	276.9	263.8	252.1	245.1	238.1	232.0	226.9	223.6
62.5°	294.4	278.9	265.2	251.5	239.5	229.3	221.2	215.3	210.0	206.7	203.5
65°	252.5	240.4	226.4	215.3	204.0	196.5	190.0	184.9	181.1	178.8	176.0
67.5°	214.1	202.3	190.1	179.1	171.7	165.9	161.7	157.2	155.3	152.4	150.5
70°	189.0	176.9	166.2	157.8	150.3	146.2	143.3	140.1	138.2	134.5	132.6
72.5°	161.8	153.0	145.3	138.4	132.4	128.6	125.0	121.0	118.1	113.9	112.1
75°	127.4	119.5	113.4	108.8	105.0	99.9	94.8	90.6	89.2	87.7	87.3
77.5°	94.4	89.3	85.0	81.1	76.4	72.7	71.5	70.6	70.3	69.6	69.6
80°	74.2	69.6	66.3	61.6	58.9	58.9	58.9	57.9	58.3	58.3	58.3
82.5°	55.2	50.9	49.1	47.4	46.9	47.3	47.3	47.4	47.2	47.9	47.5
85°	28.4	29.0	29.9	29.4	29.9	29.9	30.9	30.3	30.9	29.9	30.9
87.5°	12.2	13.8	14.7	15.6	16.5	16.6	17.1	17.3	17.8	18.0	18.1
90°	8.8	11.1	13.7	16.3	18.9	21.5	22.3	23.1	23.9	24.7	25.2
92.5°	14.4	15.2	17.1	19.0	21.0	22.9	24.2	25.5	26.8	28.0	28.8
95°	22.0	19.0	21.2	23.4	25.6	27.7	29.2	30.6	31.9	33.3	34.1
97.5°	95.1	86.1	71.9	57.5	43.2	28.8	30.4	32.0	33.6	35.2	36.1
100°	167.3	153.7	122.7	91.7	60.6	29.5	31.1	32.7	34.3	35.9	36.8
102.5°	210.1	194.6	160.7	126.8	92.8	58.9	54.0	49.0	44.1	39.1	36.9
105°	275.6	267.8	249.9	231.9	214.1	196.2	161.0	125.7	90.4	55.2	37.8
107.5°	345.9	348.2	351.1	353.8	356.7	359.5	333.7	307.8	282.0	256.2	230.0
110°	393.2	395.2	397.3	399.6	401.7	403.9	397.3	390.8	384.2	377.6	360.2



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	438.5	440.3	442.5	444.7	446.9	449.1	449.2	449.3	449.4	449.5	446.6
115°	505.4	506.9	508.7	510.5	512.3	514.1	516.1	518.1	520.0	522.1	523.4
117.5°	572.3	573.5	574.4	575.3	576.2	577.1	578.7	580.3	581.9	583.5	584.4
120°	614.4	615.6	616.2	616.8	617.4	618.0	619.6	621.2	622.8	624.4	625.2
122.5°	654.7	655.8	656.6	657.3	658.1	658.8	660.0	661.0	662.2	663.3	664.0
125°	712.1	713.4	714.1	714.9	715.7	716.5	716.9	717.3	717.7	718.1	718.5
127.5°	767.3	768.6	769.5	770.5	771.4	772.4	773.0	773.6	774.3	775.0	775.1
130°	801.7	802.9	803.7	804.5	805.3	806.1	806.9	807.7	808.4	809.2	809.5
132.5°	834.6	835.8	836.4	837.0	837.7	838.3	839.1	839.9	840.7	841.5	841.6
135°	883.4	884.4	885.2	886.0	886.8	887.6	888.1	888.8	889.4	889.9	889.9
137.5°	927.6	928.6	929.1	929.5	930.0	930.4	931.3	932.3	933.3	934.2	934.5
140°	955.0	955.9	956.5	957.2	957.7	958.3	959.1	959.9	960.7	961.5	961.7
142.5°	981.6	982.5	983.0	983.6	984.3	984.8	985.5	986.1	986.8	987.4	987.4
145°	1019.4	1020.3	1020.7	1021.1	1021.5	1021.9	1022.3	1022.7	1023.1	1023.5	1023.7
147.5°	1052.5	1053.1	1053.5	1053.9	1054.3	1054.7	1055.1	1055.5	1055.9	1056.3	1056.1
150°	1072.6	1073.2	1073.5	1074.0	1074.3	1074.8	1075.1	1075.6	1075.9	1076.4	1076.3
152.5°	1090.7	1091.0	1091.3	1091.5	1091.7	1092.0	1092.7	1093.4	1094.1	1094.8	1094.8
155°	1115.3	1115.2	1115.4	1115.5	1115.8	1116.0	1117.0	1117.9	1118.9	1120.0	1119.8
157.5°	1137.8	1137.7	1137.6	1137.3	1137.1	1136.9	1138.1	1139.3	1140.5	1141.7	1141.5
160°	1150.1	1149.9	1149.7	1149.5	1149.3	1149.1	1150.3	1151.5	1152.7	1153.9	1153.8
162.5°	1161.0	1160.7	1160.5	1160.3	1160.0	1159.8	1161.2	1162.5	1164.0	1165.3	1165.3
165°	1175.4	1175.0	1174.7	1174.6	1174.4	1174.2	1175.8	1177.3	1178.9	1180.5	1180.6
167.5°	1186.1	1185.6	1185.6	1185.6	1185.6	1185.6	1187.2	1188.8	1190.4	1192.0	1192.0
170°	1192.5	1192.1	1192.1	1192.1	1192.1	1192.1	1193.6	1195.2	1196.9	1198.5	1198.5
172.5°	1196.1	1195.8	1195.9	1196.1	1196.2	1196.4	1198.0	1199.6	1201.1	1202.7	1202.7
175°	1201.6	1201.1	1201.3	1201.6	1201.8	1201.9	1203.4	1204.7	1206.1	1207.6	1207.5
177.5°	1203.8	1203.5	1203.6	1203.8	1203.9	1204.1	1205.4	1206.7	1207.9	1209.2	1209.1
180°	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6
2.5°	1039.0	1038.7	1039.0	1037.5	1039.0	1038.7	1039.0	1043.5	1043.5	1043.9	1044.3
5°	966.9	966.3	965.0	960.8	965.0	966.3	966.9	968.2	972.0	978.6	976.7
7.5°	903.8	903.2	899.1	899.2	899.1	903.2	903.8	907.5	911.7	915.7	920.4
10°	866.5	866.9	861.4	858.1	861.4	866.9	866.5	869.8	875.8	879.0	882.3
12.5°	830.3	828.1	823.6	820.0	823.6	828.1	830.3	832.8	841.1	844.7	851.0
15°	782.5	777.8	766.6	767.5	766.6	777.8	782.5	780.6	789.0	793.6	795.5
17.5°	726.1	722.7	722.5	716.0	722.5	722.7	726.1	729.9	737.2	742.2	755.5
20°	693.3	691.0	691.9	685.4	691.9	691.0	693.3	700.7	705.4	711.9	722.7
22.5°	667.5	665.2	661.3	659.2	661.3	665.2	667.5	672.7	677.8	687.0	692.8
25°	629.8	626.1	622.3	624.6	622.3	626.1	629.8	632.6	641.9	646.1	654.5
27.5°	592.1	589.2	585.5	585.1	585.5	589.2	592.1	594.8	599.9	607.0	617.1
30°	568.2	565.3	563.5	561.2	563.5	565.3	568.2	570.5	575.6	583.1	590.6
32.5°	543.9	543.3	539.9	539.5	539.9	543.3	543.9	547.7	552.9	559.9	566.3
35°	512.1	509.3	508.4	508.9	508.4	509.3	512.1	514.0	518.7	525.2	531.3
37.5°	482.0	478.2	476.5	474.9	476.5	478.2	482.0	482.2	487.1	491.4	499.6
40°	460.3	456.6	455.7	454.7	455.7	456.6	460.3	459.9	465.0	468.2	475.7
42.5°	436.0	434.5	434.0	432.3	434.0	434.5	436.0	438.5	441.5	446.2	451.8
45°	402.9	402.4	399.7	400.6	399.7	402.4	402.9	404.3	409.5	412.7	417.9
47.5°	368.0	366.0	364.0	365.2	364.0	366.0	368.0	369.9	373.3	377.3	384.1
50°	344.1	343.1	338.9	339.8	338.9	343.1	344.1	346.0	348.3	353.4	359.4
52.5°	320.2	316.6	315.0	314.5	315.0	316.6	320.2	322.0	324.8	330.6	335.2
55°	280.6	276.3	274.5	273.6	274.5	276.3	280.6	283.8	287.6	294.1	298.8
57.5°	241.7	240.6	239.2	240.1	239.2	240.6	241.7	247.2	250.8	255.9	261.6
60°	218.9	218.9	218.9	218.5	218.9	218.9	218.9	223.6	226.9	232.0	238.1
62.5°	201.4	200.3	199.9	200.5	199.9	200.3	201.4	203.5	206.7	210.0	215.3
65°	174.6	174.2	172.3	171.8	172.3	174.2	174.6	176.0	178.8	181.1	184.9
67.5°	149.3	147.6	147.0	146.4	147.0	147.6	149.3	150.5	152.4	155.3	157.2
70°	130.3	129.3	126.5	127.0	126.5	129.3	130.3	132.6	134.5	138.2	140.1
72.5°	109.7	108.8	108.3	107.5	108.3	108.8	109.7	112.1	113.9	118.1	121.0
75°	86.9	86.4	85.9	87.7	85.9	86.4	86.9	87.3	87.7	89.2	90.6
77.5°	69.6	69.6	69.8	69.1	69.8	69.6	69.6	69.6	69.6	70.3	70.6
80°	58.3	58.3	57.9	57.9	57.9	58.3	58.3	58.3	58.3	58.3	57.9
82.5°	46.8	47.2	47.4	46.7	47.4	47.2	46.8	47.5	47.9	47.2	47.4
85°	30.9	30.3	31.3	30.9	31.3	30.3	30.9	30.9	29.9	30.9	30.3
87.5°	19.0	18.3	18.4	18.8	18.4	18.3	19.0	18.1	18.0	17.8	17.3
90°	25.7	26.0	26.5	26.8	26.5	26.0	25.7	25.2	24.7	23.9	23.1
92.5°	29.0	29.2	29.5	29.7	29.5	29.2	29.0	28.8	28.0	26.8	25.5
95°	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	33.3	31.9	30.6
97.5°	36.3	36.5	36.7	36.9	36.7	36.5	36.3	36.1	35.2	33.6	32.0
100°	37.0	37.2	37.5	37.6	37.5	37.2	37.0	36.8	35.9	34.3	32.7
102.5°	37.3	37.6	38.0	38.3	38.0	37.6	37.3	36.9	39.1	44.1	49.0
105°	38.3	38.6	39.0	39.4	39.0	38.6	38.3	37.8	55.2	90.4	125.7
107.5°	203.4	176.9	150.3	123.8	150.3	176.9	203.4	230.0	256.2	282.0	307.8
110°	331.7	303.2	274.7	246.3	274.7	303.2	331.7	360.2	377.6	384.2	390.8



TEST NUMBER: P332438-940

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	440.6	434.6	428.6	422.6	428.6	434.6	440.6	446.6	449.5	449.4	449.3
115°	524.2	525.0	525.8	526.6	525.8	525.0	524.2	523.4	522.1	520.0	518.1
117.5°	584.5	584.7	584.9	585.1	584.9	584.7	584.5	584.4	583.5	581.9	580.3
120°	625.2	625.2	625.2	625.2	625.2	625.2	625.2	625.2	624.4	622.8	621.2
122.5°	664.1	664.2	664.4	664.6	664.4	664.2	664.1	664.0	663.3	662.2	661.0
125°	718.9	719.3	719.7	720.1	719.7	719.3	718.9	718.5	718.1	717.7	717.3
127.5°	774.6	774.3	773.9	773.5	773.9	774.3	774.6	775.1	775.0	774.3	773.6
130°	809.0	808.7	808.2	807.9	808.2	808.7	809.0	809.5	809.2	808.4	807.7
132.5°	841.1	840.5	840.0	839.4	840.0	840.5	841.1	841.6	841.5	840.7	839.9
135°	889.4	888.8	888.1	887.6	888.1	888.8	889.4	889.9	889.9	889.4	888.8
137.5°	934.1	933.7	933.3	932.9	933.3	933.7	934.1	934.5	934.2	933.3	932.3
140°	961.4	960.9	960.6	960.1	960.6	960.9	961.4	961.7	961.5	960.7	959.9
142.5°	986.9	986.3	985.8	985.2	985.8	986.3	986.9	987.4	987.4	986.8	986.1
145°	1023.7	1023.7	1023.7	1023.7	1023.7	1023.7	1023.7	1023.7	1023.5	1023.1	1022.7
147.5°	1055.2	1054.2	1053.3	1052.4	1053.3	1054.2	1055.2	1056.1	1056.3	1055.9	1055.5
150°	1075.7	1075.0	1074.5	1073.9	1074.5	1075.0	1075.7	1076.3	1076.4	1075.9	1075.6
152.5°	1093.8	1092.9	1092.0	1091.1	1092.0	1092.9	1093.8	1094.8	1094.8	1094.1	1093.4
155°	1118.7	1117.5	1116.2	1115.1	1116.2	1117.5	1118.7	1119.8	1120.0	1118.9	1117.9
157.5°	1140.0	1138.4	1136.8	1135.3	1136.8	1138.4	1140.0	1141.5	1141.7	1140.5	1139.3
160°	1152.4	1151.0	1149.6	1148.2	1149.6	1151.0	1152.4	1153.8	1153.9	1152.7	1151.5
162.5°	1164.1	1162.9	1161.6	1160.4	1161.6	1162.9	1164.1	1165.3	1165.3	1164.0	1162.5
165°	1179.3	1177.9	1176.4	1175.1	1176.4	1177.9	1179.3	1180.6	1180.5	1178.9	1177.3
167.5°	1190.4	1188.8	1187.2	1185.6	1187.2	1188.8	1190.4	1192.0	1192.0	1190.4	1188.8
170°	1196.9	1195.2	1193.6	1192.1	1193.6	1195.2	1196.9	1198.5	1198.5	1196.9	1195.2
172.5°	1201.0	1199.2	1197.4	1195.7	1197.4	1199.2	1201.0	1202.7	1202.7	1201.1	1199.6
175°	1205.9	1204.3	1202.7	1201.0	1202.7	1204.3	1205.9	1207.5	1207.6	1206.1	1204.7
177.5°	1207.5	1205.9	1204.3	1202.7	1204.3	1205.9	1207.5	1209.1	1209.2	1207.9	1206.7
180°	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6
2.5°	1040.9	1046.2	1051.3	1056.2	1063.7	1067.0	1071.9	1073.8	1079.3	1087.6	1094.3
5°	977.6	985.1	994.9	1002.8	1015.4	1025.2	1036.0	1046.2	1058.4	1075.7	1091.0
7.5°	923.9	931.3	943.1	957.8	971.7	985.6	1000.3	1014.3	1031.6	1056.4	1080.9
10°	888.4	897.3	911.3	927.2	944.4	958.0	975.3	993.0	1014.5	1042.9	1072.4
12.5°	857.8	864.4	880.7	895.8	915.3	932.6	949.5	970.2	994.7	1025.0	1060.4
15°	809.0	818.4	834.3	851.0	871.6	889.8	911.8	937.0	960.8	998.2	1041.1
17.5°	760.1	774.4	790.9	809.9	825.0	850.2	874.0	899.8	929.2	968.8	1015.8
20°	728.8	739.9	755.4	782.9	803.0	822.2	844.1	876.3	903.4	948.2	997.2
22.5°	702.2	710.4	727.7	750.5	773.8	796.0	818.3	849.0	882.4	925.1	978.1
25°	662.9	676.0	689.1	705.4	730.7	757.2	781.5	807.6	843.1	888.4	945.8
27.5°	624.6	636.4	649.3	669.4	688.5	713.4	738.8	768.7	806.8	854.7	913.0
30°	599.9	608.8	620.9	646.6	663.9	685.4	715.2	741.8	777.3	828.2	889.8
32.5°	574.5	586.0	599.2	618.9	640.3	660.7	688.0	716.8	753.0	803.2	866.3
35°	538.3	551.8	565.3	579.8	601.3	622.3	645.2	676.9	713.8	762.4	824.5
37.5°	505.0	515.9	526.9	544.8	565.2	585.1	606.5	637.8	672.5	725.0	781.9
40°	483.7	493.5	501.9	520.6	540.1	561.6	582.6	610.2	647.6	696.5	751.6
42.5°	460.5	469.6	481.0	496.2	517.4	535.5	556.5	582.6	617.7	667.4	715.8
45°	425.8	436.0	445.9	460.3	481.3	499.1	517.7	542.5	578.5	619.6	662.5
47.5°	389.7	399.9	411.1	425.1	443.4	461.5	480.1	502.0	534.8	575.2	604.1
50°	366.5	374.9	386.1	400.1	416.9	436.0	452.8	476.6	507.9	539.7	564.9
52.5°	342.6	350.3	362.9	377.7	393.3	409.9	427.8	448.3	476.5	506.4	526.5
55°	305.3	314.7	325.4	339.8	355.3	369.3	386.6	407.6	430.0	452.4	465.9
57.5°	270.5	278.2	287.3	302.2	315.6	332.3	347.8	364.2	384.9	401.8	410.6
60°	245.1	252.1	263.8	276.9	289.4	303.9	321.6	338.0	353.9	367.4	374.4
62.5°	221.2	229.3	239.5	251.5	265.2	278.9	294.4	308.1	322.1	333.8	338.6
65°	190.0	196.5	204.0	215.3	226.4	240.4	252.5	266.5	276.9	283.4	287.6
67.5°	161.7	165.9	171.7	179.1	190.1	202.3	214.1	225.1	233.6	238.1	241.8
70°	143.3	146.2	150.3	157.8	166.2	176.9	189.0	197.0	204.5	208.2	212.0
72.5°	125.0	128.6	132.4	138.4	145.3	153.0	161.8	171.7	175.8	180.2	182.4
75°	94.8	99.9	105.0	108.8	113.4	119.5	127.4	133.5	135.9	139.6	140.1
77.5°	71.5	72.7	76.4	81.1	85.0	89.3	94.4	99.8	100.9	102.9	104.2
80°	58.9	58.9	58.9	61.6	66.3	69.6	74.2	77.0	78.9	79.4	79.8
82.5°	47.3	47.3	46.9	47.4	49.1	50.9	55.2	58.3	59.8	59.6	58.6
85°	30.9	29.9	29.9	29.4	29.9	29.0	28.4	30.3	33.2	33.2	32.2
87.5°	17.1	16.6	16.5	15.6	14.7	13.8	12.2	12.2	11.8	12.9	12.1
90°	22.3	21.5	18.9	16.3	13.7	11.1	8.8	6.9	4.9	2.9	0.9
92.5°	24.2	22.9	21.0	19.0	17.1	15.2	14.4	15.0	15.5	16.1	16.7
95°	29.2	27.7	25.6	23.4	21.2	19.0	22.0	30.1	38.3	46.5	54.7
97.5°	30.4	28.8	43.2	57.5	71.9	86.1	95.1	98.8	102.5	106.1	109.8
100°	31.1	29.5	60.6	91.7	122.7	153.7	167.3	163.3	159.3	155.3	151.3
102.5°	54.0	58.9	92.8	126.8	160.7	194.6	210.1	207.2	204.4	201.5	198.7
105°	161.0	196.2	214.1	231.9	249.9	267.8	275.6	273.5	271.3	269.1	266.9
107.5°	333.7	359.5	356.7	353.8	351.1	348.2	345.9	344.2	342.4	340.6	338.9
110°	397.3	403.9	401.7	399.6	397.3	395.2	393.2	391.7	390.1	388.5	386.9



TEST NUMBER: P332438-940

CATALOG NUMBER: S123RDIW-S775D1030U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	449.2	449.1	446.9	444.7	442.5	440.3	438.5	437.1	435.6	434.2	432.7
115°	516.1	514.1	512.3	510.5	508.7	506.9	505.4	504.3	503.0	501.9	500.7
117.5°	578.7	577.1	576.2	575.3	574.4	573.5	572.3	570.8	569.4	567.8	566.4
120°	619.6	618.0	617.4	616.8	616.2	615.6	614.4	612.6	610.8	609.0	607.3
122.5°	660.0	658.8	658.1	657.3	656.6	655.8	654.7	653.2	651.8	650.2	648.8
125°	716.9	716.5	715.7	714.9	714.1	713.4	712.1	710.5	708.9	707.4	705.8
127.5°	773.0	772.4	771.4	770.5	769.5	768.6	767.3	765.7	764.1	762.5	760.9
130°	806.9	806.1	805.3	804.5	803.7	802.9	801.7	800.1	798.5	796.9	795.3
132.5°	839.1	838.3	837.7	837.0	836.4	835.8	834.6	833.0	831.4	829.9	828.3
135°	888.1	887.6	886.8	886.0	885.2	884.4	883.4	882.2	881.0	879.9	878.6
137.5°	931.3	930.4	930.0	929.5	929.1	928.6	927.6	926.1	924.6	923.1	921.6
140°	959.1	958.3	957.7	957.2	956.5	955.9	955.0	953.9	952.7	951.5	950.3
142.5°	985.5	984.8	984.3	983.6	983.0	982.5	981.6	980.3	979.2	977.9	976.8
145°	1022.3	1021.9	1021.5	1021.1	1020.7	1020.3	1019.4	1018.1	1016.6	1015.2	1013.9
147.5°	1055.1	1054.7	1054.3	1053.9	1053.5	1053.1	1052.5	1051.5	1050.6	1049.7	1048.8
150°	1075.1	1074.8	1074.3	1074.0	1073.5	1073.2	1072.6	1072.1	1071.5	1070.9	1070.3
152.5°	1092.7	1092.0	1091.7	1091.5	1091.3	1091.0	1090.7	1090.5	1090.2	1089.9	1089.7
155°	1117.0	1116.0	1115.8	1115.5	1115.4	1115.2	1115.3	1115.7	1116.1	1116.4	1116.9
157.5°	1138.1	1136.9	1137.1	1137.3	1137.6	1137.7	1137.8	1137.9	1137.9	1138.0	1138.0
160°	1150.3	1149.1	1149.3	1149.5	1149.7	1149.9	1150.1	1150.3	1150.5	1150.7	1150.9
162.5°	1161.2	1159.8	1160.0	1160.3	1160.5	1160.7	1161.0	1161.5	1162.1	1162.5	1163.1
165°	1175.8	1174.2	1174.4	1174.6	1174.7	1175.0	1175.4	1176.0	1176.6	1177.1	1177.8
167.5°	1187.2	1185.6	1185.6	1185.6	1185.6	1185.6	1186.1	1186.9	1187.7	1188.5	1189.2
170°	1193.6	1192.1	1192.1	1192.1	1192.1	1192.1	1192.5	1193.3	1194.1	1194.9	1195.7
172.5°	1198.0	1196.4	1196.2	1196.1	1195.9	1195.8	1196.1	1197.1	1198.1	1199.0	1200.0
175°	1203.4	1201.9	1201.8	1201.6	1201.3	1201.1	1201.6	1202.6	1203.5	1204.5	1205.5
177.5°	1205.4	1204.1	1203.9	1203.8	1203.6	1203.5	1203.8	1204.6	1205.4	1206.1	1206.9
180°	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5



TEST NUMBER: P332438-940

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6
2.5°	1096.5	1100.6	1105.9	1113.7	1119.7	1124.9	1126.1	1127.6	1131.3	1137.6	1142.5
5°	1103.7	1114.4	1131.7	1148.4	1166.7	1181.6	1195.6	1205.4	1214.8	1234.4	1250.3
7.5°	1101.4	1125.3	1152.4	1182.6	1213.1	1242.7	1270.2	1294.7	1319.1	1347.7	1380.3
10°	1099.9	1127.9	1164.3	1203.1	1245.5	1287.1	1327.3	1358.5	1395.0	1427.6	1469.2
12.5°	1092.8	1133.2	1176.7	1226.3	1278.4	1326.3	1379.2	1422.5	1464.1	1511.3	1559.6
15°	1083.6	1132.6	1187.7	1253.5	1332.8	1390.8	1444.9	1520.1	1571.5	1622.8	1691.8
17.5°	1066.7	1126.5	1195.3	1280.9	1347.1	1424.9	1506.4	1565.8	1635.0	1707.3	1769.9
20°	1053.2	1122.8	1199.8	1283.9	1368.3	1452.9	1531.8	1602.7	1674.2	1757.7	1809.1
22.5°	1039.8	1108.6	1188.7	1277.9	1368.7	1457.7	1547.0	1630.3	1710.7	1795.1	1860.6
25°	1011.2	1092.9	1179.7	1270.8	1360.4	1458.5	1564.9	1657.8	1757.2	1844.1	1906.2
27.5°	982.2	1057.1	1143.6	1235.9	1335.6	1451.4	1576.6	1682.3	1781.9	1844.1	1863.6
30°	956.1	1035.5	1114.8	1208.7	1316.5	1445.8	1578.9	1699.8	1781.5	1808.6	1788.5
32.5°	929.6	1001.5	1080.1	1176.2	1290.8	1432.0	1581.9	1689.3	1738.6	1717.9	1636.1
35°	882.8	947.7	1023.8	1120.0	1251.6	1424.4	1569.6	1642.4	1630.2	1513.5	1359.5
37.5°	832.8	885.6	956.1	1056.7	1211.1	1394.0	1516.5	1527.2	1422.2	1243.0	1065.1
40°	793.2	840.8	913.2	1018.2	1179.7	1364.1	1463.1	1419.7	1256.8	1057.4	909.0
42.5°	754.7	794.9	864.6	977.9	1149.9	1323.5	1383.6	1289.0	1101.0	912.5	777.5
45°	689.6	727.4	797.4	913.6	1088.7	1245.5	1237.6	1073.3	885.2	733.4	621.3
47.5°	627.8	660.8	726.5	845.2	1016.9	1128.8	1054.6	879.8	720.1	598.4	518.5
50°	584.1	616.7	682.1	799.2	959.4	1041.1	935.1	766.6	620.5	519.6	456.1
52.5°	542.2	574.2	633.9	748.1	889.9	938.8	824.9	668.7	546.9	459.9	405.3
55°	483.7	507.9	561.6	670.8	776.9	788.1	672.7	542.0	441.7	380.9	343.6
57.5°	424.0	444.9	497.9	585.0	659.3	653.5	544.2	431.1	363.5	318.4	291.3
60°	385.1	405.7	452.4	527.1	583.1	563.5	463.2	372.1	314.1	281.1	259.6
62.5°	348.9	365.0	408.7	463.2	503.5	481.3	395.9	320.6	274.6	246.6	229.7
65°	296.5	309.5	344.6	373.0	395.4	374.0	303.0	250.7	217.6	198.0	186.3
67.5°	246.6	254.9	277.1	287.3	303.1	279.6	227.8	192.8	174.0	157.4	149.3
70°	215.3	221.3	233.0	241.4	245.6	221.3	183.0	157.3	141.4	129.7	124.7
72.5°	183.9	189.1	191.5	198.4	196.3	173.5	147.1	126.7	115.3	107.4	100.8
75°	140.5	142.9	140.5	137.7	131.6	115.7	97.6	87.3	78.9	75.2	72.9
77.5°	102.5	101.7	98.5	94.1	83.7	73.7	63.9	60.5	56.9	54.9	54.0
80°	78.9	77.0	74.2	67.2	58.3	51.4	49.0	46.7	45.3	43.0	42.4
82.5°	58.8	57.6	53.0	47.1	40.8	37.5	35.6	34.8	33.3	32.1	32.0
85°	31.3	29.9	24.7	21.5	20.5	19.6	19.2	19.2	17.3	16.8	16.8
87.5°	10.7	8.8	8.8	8.1	8.6	8.4	9.3	9.0	9.2	9.7	9.1
90°	2.9	4.9	6.9	8.8	11.1	13.7	16.3	18.9	21.5	22.3	23.1
92.5°	16.1	15.5	15.0	14.4	15.2	17.1	19.0	21.0	22.9	24.2	25.5
95°	46.5	38.3	30.1	22.0	19.0	21.2	23.4	25.6	27.7	29.2	30.6
97.5°	106.1	102.5	98.8	95.1	86.1	71.9	57.5	43.2	28.8	30.4	32.0
100°	155.3	159.3	163.3	167.3	153.7	122.7	91.7	60.6	29.5	31.1	32.7
102.5°	201.5	204.4	207.2	210.1	194.6	160.7	126.8	92.8	58.9	54.0	49.0
105°	269.1	271.3	273.5	275.6	267.8	249.9	231.9	214.1	196.2	161.0	125.7
107.5°	340.6	342.4	344.2	345.9	348.2	351.1	353.8	356.7	359.5	333.7	307.8
110°	388.5	390.1	391.7	393.2	395.2	397.3	399.6	401.7	403.9	397.3	390.8



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	434.2	435.6	437.1	438.5	440.3	442.5	444.7	446.9	449.1	449.2	449.3
115°	501.9	503.0	504.3	505.4	506.9	508.7	510.5	512.3	514.1	516.1	518.1
117.5°	567.8	569.4	570.8	572.3	573.5	574.4	575.3	576.2	577.1	578.7	580.3
120°	609.0	610.8	612.6	614.4	615.6	616.2	616.8	617.4	618.0	619.6	621.2
122.5°	650.2	651.8	653.2	654.7	655.8	656.6	657.3	658.1	658.8	660.0	661.0
125°	707.4	708.9	710.5	712.1	713.4	714.1	714.9	715.7	716.5	716.9	717.3
127.5°	762.5	764.1	765.7	767.3	768.6	769.5	770.5	771.4	772.4	773.0	773.6
130°	796.9	798.5	800.1	801.7	802.9	803.7	804.5	805.3	806.1	806.9	807.7
132.5°	829.9	831.4	833.0	834.6	835.8	836.4	837.0	837.7	838.3	839.1	839.9
135°	879.9	881.0	882.2	883.4	884.4	885.2	886.0	886.8	887.6	888.1	888.8
137.5°	923.1	924.6	926.1	927.6	928.6	929.1	929.5	930.0	930.4	931.3	932.3
140°	951.5	952.7	953.9	955.0	955.9	956.5	957.2	957.7	958.3	959.1	959.9
142.5°	977.9	979.2	980.3	981.6	982.5	983.0	983.6	984.3	984.8	985.5	986.1
145°	1015.2	1016.6	1018.1	1019.4	1020.3	1020.7	1021.1	1021.5	1021.9	1022.3	1022.7
147.5°	1049.7	1050.6	1051.5	1052.5	1053.1	1053.5	1053.9	1054.3	1054.7	1055.1	1055.5
150°	1070.9	1071.5	1072.1	1072.6	1073.2	1073.5	1074.0	1074.3	1074.8	1075.1	1075.6
152.5°	1089.9	1090.2	1090.5	1090.7	1091.0	1091.3	1091.5	1091.7	1092.0	1092.7	1093.4
155°	1116.4	1116.1	1115.7	1115.3	1115.2	1115.4	1115.5	1115.8	1116.0	1117.0	1117.9
157.5°	1138.0	1137.9	1137.9	1137.8	1137.7	1137.6	1137.3	1137.1	1136.9	1138.1	1139.3
160°	1150.7	1150.5	1150.3	1150.1	1149.9	1149.7	1149.5	1149.3	1149.1	1150.3	1151.5
162.5°	1162.5	1162.1	1161.5	1161.0	1160.7	1160.5	1160.3	1160.0	1159.8	1161.2	1162.5
165°	1177.1	1176.6	1176.0	1175.4	1175.0	1174.7	1174.6	1174.4	1174.2	1175.8	1177.3
167.5°	1188.5	1187.7	1186.9	1186.1	1185.6	1185.6	1185.6	1185.6	1185.6	1187.2	1188.8
170°	1194.9	1194.1	1193.3	1192.5	1192.1	1192.1	1192.1	1192.1	1192.1	1193.6	1195.2
172.5°	1199.0	1198.1	1197.1	1196.1	1195.8	1195.9	1196.1	1196.2	1196.4	1198.0	1199.6
175°	1204.5	1203.5	1202.6	1201.6	1201.1	1201.3	1201.6	1201.8	1201.9	1203.4	1204.7
177.5°	1206.1	1205.4	1204.6	1203.8	1203.5	1203.6	1203.8	1203.9	1204.1	1205.4	1206.7
180°	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6
2.5°	1150.3	1150.3	1151.8	1157.4	1158.2	1163.1	1161.5
5°	1264.3	1273.1	1276.4	1290.4	1298.8	1302.5	1295.0
7.5°	1403.6	1428.6	1440.5	1455.1	1468.1	1472.0	1461.8
10°	1505.1	1531.2	1553.3	1566.7	1579.4	1587.8	1598.5
12.5°	1603.4	1635.5	1656.4	1675.4	1688.5	1699.1	1700.8
15°	1710.1	1758.6	1795.5	1822.6	1836.1	1843.2	1840.3
17.5°	1817.8	1862.8	1889.0	1916.6	1935.4	1936.4	1936.9
20°	1878.7	1922.5	1952.8	1973.4	1994.4	1993.5	1998.1
22.5°	1919.3	1953.9	1977.1	1992.1	1999.3	1995.7	1996.6
25°	1938.4	1948.7	1944.5	1920.7	1914.6	1892.7	1896.4
27.5°	1840.1	1791.6	1741.3	1676.8	1625.8	1585.1	1587.2
30°	1706.8	1621.0	1522.9	1440.7	1367.0	1346.4	1302.5
32.5°	1520.5	1391.6	1276.8	1200.2	1136.8	1119.7	1081.5
35°	1204.5	1079.3	961.3	890.3	862.3	823.0	822.6
37.5°	936.2	826.1	763.6	710.3	682.4	658.7	656.4
40°	787.6	701.7	654.5	616.3	588.7	571.0	566.8
42.5°	683.8	614.3	570.2	546.4	525.2	516.0	509.3
45°	558.4	511.7	480.9	459.4	449.6	442.6	438.8
47.5°	467.1	435.8	414.7	400.5	392.5	385.1	387.1
50°	417.4	391.7	376.3	362.7	356.7	351.5	352.0
52.5°	377.4	354.4	341.9	332.2	324.6	320.9	319.1
55°	320.3	305.8	293.2	286.1	282.0	276.9	275.4
57.5°	273.2	262.0	251.7	243.8	242.7	237.8	238.4
60°	241.8	232.5	224.1	219.9	216.6	212.4	213.8
62.5°	216.1	208.2	200.5	197.1	193.9	190.7	191.5
65°	176.9	169.4	164.8	162.9	161.5	160.2	158.7
67.5°	141.0	136.4	133.5	129.5	126.6	126.2	124.8
70°	118.6	112.5	107.4	102.3	100.9	100.4	100.9
72.5°	95.1	91.2	89.8	87.3	87.0	85.8	86.7
75°	71.4	70.0	69.1	67.2	67.2	67.2	67.2
77.5°	52.7	51.8	51.3	50.9	50.4	49.8	49.7
80°	41.1	40.6	39.7	39.7	39.2	39.7	39.2
82.5°	31.0	30.9	30.0	30.0	29.5	29.2	29.5
85°	15.9	15.4	16.3	15.4	15.9	15.0	15.9
87.5°	9.3	9.5	9.2	9.3	8.9	9.8	9.1
90°	23.9	24.7	25.2	25.7	26.0	26.5	26.8
92.5°	26.8	28.0	28.8	29.0	29.2	29.5	29.7
95°	31.9	33.3	34.1	34.1	34.1	34.1	34.1
97.5°	33.6	35.2	36.1	36.3	36.5	36.7	36.9
100°	34.3	35.9	36.8	37.0	37.2	37.5	37.6
102.5°	44.1	39.1	36.9	37.3	37.6	38.0	38.3
105°	90.4	55.2	37.8	38.3	38.6	39.0	39.4
107.5°	282.0	256.2	230.0	203.4	176.9	150.3	123.8
110°	384.2	377.6	360.2	331.7	303.2	274.7	246.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	449.4	449.5	446.6	440.6	434.6	428.6	422.6
115°	520.0	522.1	523.4	524.2	525.0	525.8	526.6
117.5°	581.9	583.5	584.4	584.5	584.7	584.9	585.1
120°	622.8	624.4	625.2	625.2	625.2	625.2	625.2
122.5°	662.2	663.3	664.0	664.1	664.2	664.4	664.6
125°	717.7	718.1	718.5	718.9	719.3	719.7	720.1
127.5°	774.3	775.0	775.1	774.6	774.3	773.9	773.5
130°	808.4	809.2	809.5	809.0	808.7	808.2	807.9
132.5°	840.7	841.5	841.6	841.1	840.5	840.0	839.4
135°	889.4	889.9	889.9	889.4	888.8	888.1	887.6
137.5°	933.3	934.2	934.5	934.1	933.7	933.3	932.9
140°	960.7	961.5	961.7	961.4	960.9	960.6	960.1
142.5°	986.8	987.4	987.4	986.9	986.3	985.8	985.2
145°	1023.1	1023.5	1023.7	1023.7	1023.7	1023.7	1023.7
147.5°	1055.9	1056.3	1056.1	1055.2	1054.2	1053.3	1052.4
150°	1075.9	1076.4	1076.3	1075.7	1075.0	1074.5	1073.9
152.5°	1094.1	1094.8	1094.8	1093.8	1092.9	1092.0	1091.1
155°	1118.9	1120.0	1119.8	1118.7	1117.5	1116.2	1115.1
157.5°	1140.5	1141.7	1141.5	1140.0	1138.4	1136.8	1135.3
160°	1152.7	1153.9	1153.8	1152.4	1151.0	1149.6	1148.2
162.5°	1164.0	1165.3	1165.3	1164.1	1162.9	1161.6	1160.4
165°	1178.9	1180.5	1180.6	1179.3	1177.9	1176.4	1175.1
167.5°	1190.4	1192.0	1192.0	1190.4	1188.8	1187.2	1185.6
170°	1196.9	1198.5	1198.5	1196.9	1195.2	1193.6	1192.1
172.5°	1201.1	1202.7	1202.7	1201.0	1199.2	1197.4	1195.7
175°	1206.1	1207.6	1207.5	1205.9	1204.3	1202.7	1201.0
177.5°	1207.9	1209.2	1209.1	1207.5	1205.9	1204.3	1202.7
180°	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5

(END OF REPORT)