

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: P332439-940

Luminaire Tested: **S123RDIW-S775D1030U940-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332439-940  
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: S123RDIW-S775D1030U940-4F0-1E-UDD-A1  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 775 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1030 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

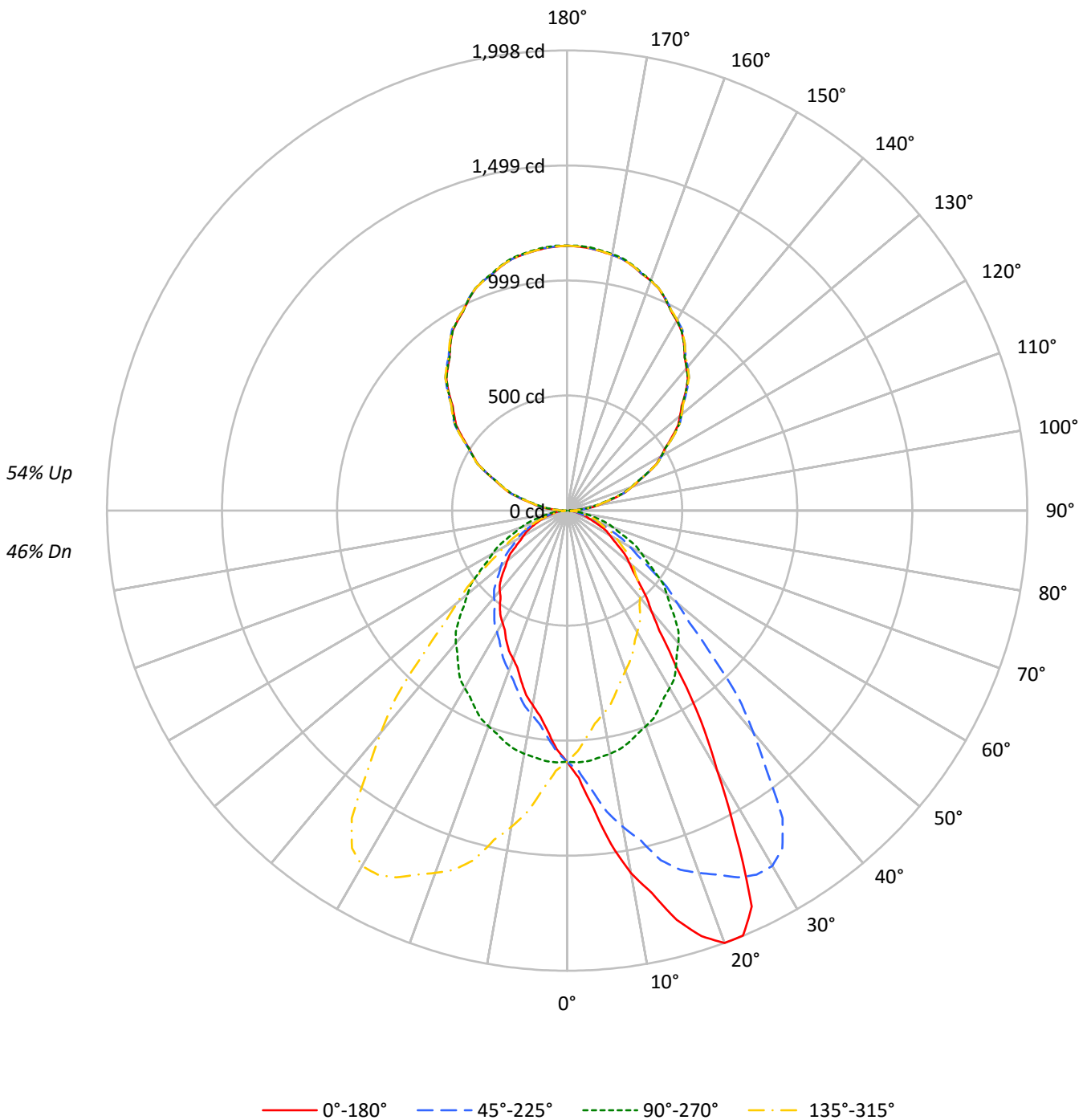
Lumens per Lamp: N/A  
Luminaire Lumens: 5905.1 lumens  
Efficiency: N/A  
Efficacy: 112.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: General Diffuse  
  
Input Watts (W): 52.6  
Input Voltage (V): 120  
Input Current (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	0
RCR																		
0	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	46
1	97	93	90	86	89	86	83	80	72	70	68	59	58	56	47	46	45	40
2	89	82	76	71	82	76	71	66	64	60	57	52	50	48	42	41	39	34
3	82	73	66	60	75	67	61	56	57	52	48	47	44	41	38	36	34	30
4	75	65	57	51	69	60	53	48	51	46	42	42	38	36	34	32	30	26
5	69	58	50	44	63	54	47	42	45	40	36	38	34	31	31	28	26	23
6	64	52	44	39	58	48	41	36	41	36	32	34	31	27	28	25	23	20
7	59	47	39	34	54	44	37	32	37	32	28	31	27	24	26	23	21	18
8	55	43	35	30	50	40	33	28	34	29	25	29	25	22	24	21	19	16
9	51	39	32	27	47	36	30	25	31	26	23	27	23	20	22	19	17	15
10	48	36	29	24	44	34	27	23	29	24	20	25	21	18	21	18	15	14

**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	1.8
10°-20°	335.1	5.7
20°-30°	526.4	8.9
30°-40°	549.2	9.3
40°-50°	470.0	8.0
50°-60°	358.2	6.1
60°-70°	229.6	3.9
70°-80°	110.5	1.9
80°-90°	32.6	0.6
90°-100°	74.9	1.3
100°-110°	224.2	3.8
110°-120°	381.4	6.5
120°-130°	501.7	8.5
130°-140°	563.9	9.5
140°-150°	554.3	9.4
150°-160°	466.6	7.9
160°-170°	310.6	5.3
170°-180°	108.8	1.8
0°-30°	968.7	16.4
0°-40°	1517.9	25.7
0°-60°	2346.1	39.7
0°-90°	2718.8	46.0
90°-120°	680.6	11.5
90°-150°	2300.3	39.0
90°-180°	3186.0	54.0
0°-180°	5905.1	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	14
95°	70	53	70	53	70	72
105°	215	203	215	203	215	228
115°	385	384	385	384	385	381
125°	556	562	556	562	556	497
135°	728	729	728	729	728	560
145°	884	884	884	884	884	552
155°	1011	1013	1011	1013	1011	465
165°	1100	1103	1100	1103	1100	310
175°	1143	1147	1143	1147	1143	109
180°	1150	1150	1150	1150	1150	



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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°	9.2	9.8	9.0	9.3	9.2	9.5	9.3	9.1	9.7	9.2	9.0
90°	27.1	26.7	26.3	25.9	25.5	24.9	24.1	23.3	22.5	21.7	19.1
92.5°	36.5	36.7	37.0	37.2	37.5	37.3	36.6	35.9	35.3	34.7	33.2
95°	70.4	70.4	70.4	70.4	70.4	70.1	69.3	68.5	67.7	66.9	65.3
97.5°	108.4	108.5	108.6	108.6	108.7	108.3	107.4	106.5	105.6	104.6	103.4
100°	137.3	136.9	136.5	136.1	135.7	135.2	134.6	134.0	133.4	132.8	131.8
102.5°	166.9	167.0	167.1	167.2	167.3	167.0	166.4	165.8	165.2	164.6	163.3
105°	215.0	214.6	214.2	213.8	213.4	213.2	213.2	213.2	213.2	213.2	211.4
107.5°	265.0	265.3	265.6	265.8	266.0	265.8	265.2	264.6	263.9	263.2	262.5
110°	299.0	299.4	299.8	300.2	300.6	300.4	299.6	298.8	298.0	297.2	296.9



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	335.2	335.3	335.3	335.4	335.5	335.0	334.0	333.1	332.2	331.2	331.1
115°	384.9	385.0	385.2	385.5	385.7	385.7	385.5	385.2	385.0	384.9	385.2
117.5°	435.2	435.8	436.4	436.9	437.5	437.8	437.8	437.9	437.9	438.0	438.5
120°	470.6	471.1	471.4	471.9	472.3	472.6	472.8	473.0	473.1	473.4	474.4
122.5°	504.6	505.2	505.8	506.3	506.8	507.5	507.9	508.5	509.0	509.5	510.1
125°	555.6	556.4	557.2	558.0	558.8	559.6	560.4	561.2	562.0	562.8	563.2
127.5°	606.4	607.3	608.2	609.1	610.0	611.1	612.2	613.3	614.5	615.5	616.0
130°	639.6	641.1	642.4	643.8	645.2	646.3	647.1	647.9	648.7	649.5	650.1
132.5°	674.3	675.4	676.5	677.5	678.7	679.7	680.6	681.6	682.5	683.5	683.9
135°	728.2	728.5	729.0	729.3	729.8	730.3	731.1	731.9	732.7	733.5	733.8
137.5°	775.7	776.4	777.2	777.9	778.7	779.5	780.3	781.2	782.0	782.9	782.4
140°	806.7	808.2	809.6	810.9	812.3	813.2	813.3	813.6	813.8	814.0	813.8
142.5°	838.6	839.6	840.7	841.8	842.8	843.6	843.7	843.9	844.1	844.4	844.0
145°	884.4	885.2	886.0	886.8	887.6	888.1	888.3	888.6	888.8	888.9	888.3
147.5°	925.2	926.5	927.6	928.9	930.1	930.7	930.7	930.7	930.7	930.7	930.1
150°	951.3	952.5	953.7	954.9	956.1	956.7	956.7	956.7	956.7	956.7	956.3
152.5°	976.6	977.6	978.7	979.7	980.8	981.1	980.8	980.4	980.2	979.8	979.6
155°	1010.9	1012.4	1013.7	1015.1	1016.6	1016.8	1016.0	1015.2	1014.4	1013.6	1013.4
157.5°	1042.1	1043.3	1044.5	1045.5	1046.7	1046.8	1046.0	1045.1	1044.3	1043.4	1043.3
160°	1062.4	1063.2	1064.0	1064.8	1065.6	1065.5	1064.5	1063.5	1062.5	1061.5	1061.5
162.5°	1077.5	1078.9	1080.1	1081.5	1082.7	1082.9	1081.8	1080.8	1079.9	1078.9	1078.7
165°	1099.5	1100.8	1102.2	1103.7	1105.1	1105.2	1103.9	1102.8	1101.5	1100.4	1100.4
167.5°	1118.0	1119.3	1120.5	1121.8	1123.0	1123.0	1121.8	1120.5	1119.3	1118.0	1117.9
170°	1127.5	1128.8	1130.2	1131.7	1133.1	1133.1	1131.7	1130.2	1128.8	1127.5	1127.5
172.5°	1134.7	1136.0	1137.5	1138.9	1140.3	1140.4	1139.2	1137.9	1136.7	1135.4	1135.4
175°	1142.8	1144.2	1145.6	1147.0	1148.4	1148.5	1147.4	1146.1	1145.0	1143.7	1143.7
177.5°	1147.2	1148.3	1149.4	1150.5	1151.6	1151.7	1150.8	1149.8	1148.8	1147.9	1147.9
180°	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0



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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°	16.5	13.8	11.2	8.9	7.0	4.9	2.9	0.9	2.9	4.9	7.0
92.5°	31.7	30.2	28.7	27.3	25.9	24.6	23.2	21.8	23.2	24.6	25.9
95°	63.7	62.1	60.5	58.9	57.5	56.1	54.7	53.3	54.7	56.1	57.5
97.5°	102.3	101.1	100.0	98.9	97.8	96.8	95.7	94.7	95.7	96.8	97.8
100°	130.8	129.8	128.8	127.7	126.4	125.3	124.0	122.9	124.0	125.3	126.4
102.5°	161.9	160.6	159.3	158.3	157.6	156.9	156.1	155.4	156.1	156.9	157.6
105°	209.6	207.8	206.0	204.9	204.5	204.1	203.7	203.3	203.7	204.1	204.5
107.5°	261.8	261.1	260.4	259.8	259.7	259.4	259.1	259.0	259.1	259.4	259.7
110°	296.4	296.0	295.6	295.2	294.8	294.4	294.0	293.6	294.0	294.4	294.8





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	331.0	330.9	330.8	330.7	330.5	330.2	330.0	329.8	330.0	330.2	330.5
115°	385.7	386.0	386.5	386.4	385.8	385.1	384.5	384.0	384.5	385.1	385.8
117.5°	439.0	439.5	440.1	440.1	439.7	439.3	438.9	438.5	438.9	439.3	439.7
120°	475.4	476.4	477.4	477.3	476.1	474.9	473.7	472.5	473.7	474.9	476.1
122.5°	510.6	511.1	511.6	511.4	510.5	509.7	508.8	507.9	508.8	509.7	510.5
125°	563.7	564.0	564.5	564.4	563.7	563.1	562.5	562.0	562.5	563.1	563.7
127.5°	616.4	616.9	617.3	616.9	615.6	614.4	613.1	611.8	613.1	614.4	615.6
130°	650.8	651.4	651.9	651.5	649.9	648.3	646.7	645.1	646.7	648.3	649.9
132.5°	684.4	684.8	685.3	684.7	683.1	681.4	679.8	678.2	679.8	681.4	683.1
135°	734.0	734.1	734.3	733.9	732.6	731.5	730.2	729.1	730.2	731.5	732.6
137.5°	781.9	781.3	780.8	780.1	779.0	778.0	777.0	776.1	777.0	778.0	779.0
140°	813.6	813.3	813.2	812.5	811.5	810.6	809.6	808.5	809.6	810.6	811.5
142.5°	843.6	843.2	842.8	842.2	841.2	840.2	839.2	838.2	839.2	840.2	841.2
145°	887.8	887.2	886.5	886.0	885.6	885.2	884.8	884.4	884.8	885.2	885.6
147.5°	929.6	929.0	928.4	927.8	927.1	926.3	925.6	924.9	925.6	926.3	927.1
150°	955.9	955.5	955.1	954.7	954.3	953.9	953.5	953.1	953.5	953.9	954.3
152.5°	979.4	979.1	978.8	978.5	977.9	977.3	976.8	976.2	976.8	977.3	977.9
155°	1013.3	1013.0	1012.8	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7
157.5°	1043.1	1042.9	1042.8	1042.9	1043.0	1043.3	1043.6	1043.8	1043.6	1043.3	1043.0
160°	1061.5	1061.5	1061.5	1061.7	1062.1	1062.5	1062.9	1063.3	1062.9	1062.5	1062.1
162.5°	1078.5	1078.3	1078.2	1078.4	1079.0	1079.5	1080.1	1080.7	1080.1	1079.5	1079.0
165°	1100.4	1100.4	1100.4	1100.6	1101.3	1101.9	1102.4	1103.0	1102.4	1101.9	1101.3
167.5°	1117.8	1117.6	1117.4	1117.8	1118.6	1119.4	1120.2	1121.0	1120.2	1119.4	1118.6
170°	1127.5	1127.5	1127.5	1127.8	1128.6	1129.4	1130.2	1131.0	1130.2	1129.4	1128.6
172.5°	1135.4	1135.4	1135.4	1135.8	1136.6	1137.4	1138.2	1139.0	1138.2	1137.4	1136.6
175°	1143.7	1143.7	1143.7	1144.2	1145.0	1145.8	1146.6	1147.4	1146.6	1145.8	1145.0
177.5°	1147.9	1147.9	1147.9	1148.2	1148.8	1149.5	1150.1	1150.8	1150.1	1149.5	1148.8
180°	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0



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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	16.7	17.2	17.4	17.9	18.0	18.2
90°	8.9	11.2	13.8	16.5	19.1	21.7	22.5	23.3	24.1	24.9	25.5
92.5°	27.3	28.7	30.2	31.7	33.2	34.7	35.3	35.9	36.6	37.3	37.5
95°	58.9	60.5	62.1	63.7	65.3	66.9	67.7	68.5	69.3	70.1	70.4
97.5°	98.9	100.0	101.1	102.3	103.4	104.6	105.6	106.5	107.4	108.3	108.7
100°	127.7	128.8	129.8	130.8	131.8	132.8	133.4	134.0	134.6	135.2	135.7
102.5°	158.3	159.3	160.6	161.9	163.3	164.6	165.2	165.8	166.4	167.0	167.3
105°	204.9	206.0	207.8	209.6	211.4	213.2	213.2	213.2	213.2	213.2	213.4
107.5°	259.8	260.4	261.1	261.8	262.5	263.2	263.9	264.6	265.2	265.8	266.0
110°	295.2	295.6	296.0	296.4	296.9	297.2	298.0	298.8	299.6	300.4	300.6



TEST NUMBER: P332439-940

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	330.7	330.8	330.9	331.0	331.1	331.2	332.2	333.1	334.0	335.0	335.5
115°	386.4	386.5	386.0	385.7	385.2	384.9	385.0	385.2	385.5	385.7	385.7
117.5°	440.1	440.1	439.5	439.0	438.5	438.0	437.9	437.9	437.8	437.8	437.5
120°	477.3	477.4	476.4	475.4	474.4	473.4	473.1	473.0	472.8	472.6	472.3
122.5°	511.4	511.6	511.1	510.6	510.1	509.5	509.0	508.5	507.9	507.5	506.8
125°	564.4	564.5	564.0	563.7	563.2	562.8	562.0	561.2	560.4	559.6	558.8
127.5°	616.9	617.3	616.9	616.4	616.0	615.5	614.5	613.3	612.2	611.1	610.0
130°	651.5	651.9	651.4	650.8	650.1	649.5	648.7	647.9	647.1	646.3	645.2
132.5°	684.7	685.3	684.8	684.4	683.9	683.5	682.5	681.6	680.6	679.7	678.7
135°	733.9	734.3	734.1	734.0	733.8	733.5	732.7	731.9	731.1	730.3	729.8
137.5°	780.1	780.8	781.3	781.9	782.4	782.9	782.0	781.2	780.3	779.5	778.7
140°	812.5	813.2	813.3	813.6	813.8	814.0	813.8	813.6	813.3	813.2	812.3
142.5°	842.2	842.8	843.2	843.6	844.0	844.4	844.1	843.9	843.7	843.6	842.8
145°	886.0	886.5	887.2	887.8	888.3	888.9	888.8	888.6	888.3	888.1	887.6
147.5°	927.8	928.4	929.0	929.6	930.1	930.7	930.7	930.7	930.7	930.7	930.1
150°	954.7	955.1	955.5	955.9	956.3	956.7	956.7	956.7	956.7	956.7	956.1
152.5°	978.5	978.8	979.1	979.4	979.6	979.8	980.2	980.4	980.8	981.1	980.8
155°	1012.7	1012.8	1013.0	1013.3	1013.4	1013.6	1014.4	1015.2	1016.0	1016.8	1016.6
157.5°	1042.9	1042.8	1042.9	1043.1	1043.3	1043.4	1044.3	1045.1	1046.0	1046.8	1046.7
160°	1061.7	1061.5	1061.5	1061.5	1061.5	1061.5	1062.5	1063.5	1064.5	1065.5	1065.6
162.5°	1078.4	1078.2	1078.3	1078.5	1078.7	1078.9	1079.9	1080.8	1081.8	1082.9	1082.7
165°	1100.6	1100.4	1100.4	1100.4	1100.4	1100.4	1101.5	1102.8	1103.9	1105.2	1105.1
167.5°	1117.8	1117.4	1117.6	1117.8	1117.9	1118.0	1119.3	1120.5	1121.8	1123.0	1123.0
170°	1127.8	1127.5	1127.5	1127.5	1127.5	1127.5	1128.8	1130.2	1131.7	1133.1	1133.1
172.5°	1135.8	1135.4	1135.4	1135.4	1135.4	1135.4	1136.7	1137.9	1139.2	1140.4	1140.3
175°	1144.2	1143.7	1143.7	1143.7	1143.7	1143.7	1145.0	1146.1	1147.4	1148.5	1148.4
177.5°	1148.2	1147.9	1147.9	1147.9	1147.9	1147.9	1148.8	1149.8	1150.8	1151.7	1151.6
180°	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0



TEST NUMBER: P332439-940

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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	18.4	18.4	18.9	18.4	18.4	19.0	18.2	18.0	17.9	17.4
90°	25.9	26.3	26.7	27.1	26.7	26.3	25.9	25.5	24.9	24.1	23.3
92.5°	37.2	37.0	36.7	36.5	36.7	37.0	37.2	37.5	37.3	36.6	35.9
95°	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.1	69.3	68.5
97.5°	108.6	108.6	108.5	108.4	108.5	108.6	108.6	108.7	108.3	107.4	106.5
100°	136.1	136.5	136.9	137.3	136.9	136.5	136.1	135.7	135.2	134.6	134.0
102.5°	167.2	167.1	167.0	166.9	167.0	167.1	167.2	167.3	167.0	166.4	165.8
105°	213.8	214.2	214.6	215.0	214.6	214.2	213.8	213.4	213.2	213.2	213.2
107.5°	265.8	265.6	265.3	265.0	265.3	265.6	265.8	266.0	265.8	265.2	264.6
110°	300.2	299.8	299.4	299.0	299.4	299.8	300.2	300.6	300.4	299.6	298.8



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	335.4	335.3	335.3	335.2	335.3	335.3	335.4	335.5	335.0	334.0	333.1
115°	385.5	385.2	385.0	384.9	385.0	385.2	385.5	385.7	385.7	385.5	385.2
117.5°	436.9	436.4	435.8	435.2	435.8	436.4	436.9	437.5	437.8	437.8	437.9
120°	471.9	471.4	471.1	470.6	471.1	471.4	471.9	472.3	472.6	472.8	473.0
122.5°	506.3	505.8	505.2	504.6	505.2	505.8	506.3	506.8	507.5	507.9	508.5
125°	558.0	557.2	556.4	555.6	556.4	557.2	558.0	558.8	559.6	560.4	561.2
127.5°	609.1	608.2	607.3	606.4	607.3	608.2	609.1	610.0	611.1	612.2	613.3
130°	643.8	642.4	641.1	639.6	641.1	642.4	643.8	645.2	646.3	647.1	647.9
132.5°	677.5	676.5	675.4	674.3	675.4	676.5	677.5	678.7	679.7	680.6	681.6
135°	729.3	729.0	728.5	728.2	728.5	729.0	729.3	729.8	730.3	731.1	731.9
137.5°	777.9	777.2	776.4	775.7	776.4	777.2	777.9	778.7	779.5	780.3	781.2
140°	810.9	809.6	808.2	806.7	808.2	809.6	810.9	812.3	813.2	813.3	813.6
142.5°	841.8	840.7	839.6	838.6	839.6	840.7	841.8	842.8	843.6	843.7	843.9
145°	886.8	886.0	885.2	884.4	885.2	886.0	886.8	887.6	888.1	888.3	888.6
147.5°	928.9	927.6	926.5	925.2	926.5	927.6	928.9	930.1	930.7	930.7	930.7
150°	954.9	953.7	952.5	951.3	952.5	953.7	954.9	956.1	956.7	956.7	956.7
152.5°	979.7	978.7	977.6	976.6	977.6	978.7	979.7	980.8	981.1	980.8	980.4
155°	1015.1	1013.7	1012.4	1010.9	1012.4	1013.7	1015.1	1016.6	1016.8	1016.0	1015.2
157.5°	1045.5	1044.5	1043.3	1042.1	1043.3	1044.5	1045.5	1046.7	1046.8	1046.0	1045.1
160°	1064.8	1064.0	1063.2	1062.4	1063.2	1064.0	1064.8	1065.6	1065.5	1064.5	1063.5
162.5°	1081.5	1080.1	1078.9	1077.5	1078.9	1080.1	1081.5	1082.7	1082.9	1081.8	1080.8
165°	1103.7	1102.2	1100.8	1099.5	1100.8	1102.2	1103.7	1105.1	1105.2	1103.9	1102.8
167.5°	1121.8	1120.5	1119.3	1118.0	1119.3	1120.5	1121.8	1123.0	1123.0	1121.8	1120.5
170°	1131.7	1130.2	1128.8	1127.5	1128.8	1130.2	1131.7	1133.1	1133.1	1131.7	1130.2
172.5°	1138.9	1137.5	1136.0	1134.7	1136.0	1137.5	1138.9	1140.3	1140.4	1139.2	1137.9
175°	1147.0	1145.6	1144.2	1142.8	1144.2	1145.6	1147.0	1148.4	1148.5	1147.4	1146.1
177.5°	1150.5	1149.4	1148.3	1147.2	1148.3	1149.4	1150.5	1151.6	1151.7	1150.8	1149.8
180°	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0



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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°	17.2	16.7	16.5	15.6	14.7	13.8	12.2	12.2	11.8	12.9	12.1
90°	22.5	21.7	19.1	16.5	13.8	11.2	8.9	7.0	4.9	2.9	0.9
92.5°	35.3	34.7	33.2	31.7	30.2	28.7	27.3	25.9	24.6	23.2	21.8
95°	67.7	66.9	65.3	63.7	62.1	60.5	58.9	57.5	56.1	54.7	53.3
97.5°	105.6	104.6	103.4	102.3	101.1	100.0	98.9	97.8	96.8	95.7	94.7
100°	133.4	132.8	131.8	130.8	129.8	128.8	127.7	126.4	125.3	124.0	122.9
102.5°	165.2	164.6	163.3	161.9	160.6	159.3	158.3	157.6	156.9	156.1	155.4
105°	213.2	213.2	211.4	209.6	207.8	206.0	204.9	204.5	204.1	203.7	203.3
107.5°	263.9	263.2	262.5	261.8	261.1	260.4	259.8	259.7	259.4	259.1	259.0
110°	298.0	297.2	296.9	296.4	296.0	295.6	295.2	294.8	294.4	294.0	293.6



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	332.2	331.2	331.1	331.0	330.9	330.8	330.7	330.5	330.2	330.0	329.8
115°	385.0	384.9	385.2	385.7	386.0	386.5	386.4	385.8	385.1	384.5	384.0
117.5°	437.9	438.0	438.5	439.0	439.5	440.1	440.1	439.7	439.3	438.9	438.5
120°	473.1	473.4	474.4	475.4	476.4	477.4	477.3	476.1	474.9	473.7	472.5
122.5°	509.0	509.5	510.1	510.6	511.1	511.6	511.4	510.5	509.7	508.8	507.9
125°	562.0	562.8	563.2	563.7	564.0	564.5	564.4	563.7	563.1	562.5	562.0
127.5°	614.5	615.5	616.0	616.4	616.9	617.3	616.9	615.6	614.4	613.1	611.8
130°	648.7	649.5	650.1	650.8	651.4	651.9	651.5	649.9	648.3	646.7	645.1
132.5°	682.5	683.5	683.9	684.4	684.8	685.3	684.7	683.1	681.4	679.8	678.2
135°	732.7	733.5	733.8	734.0	734.1	734.3	733.9	732.6	731.5	730.2	729.1
137.5°	782.0	782.9	782.4	781.9	781.3	780.8	780.1	779.0	778.0	777.0	776.1
140°	813.8	814.0	813.8	813.6	813.3	813.2	812.5	811.5	810.6	809.6	808.5
142.5°	844.1	844.4	844.0	843.6	843.2	842.8	842.2	841.2	840.2	839.2	838.2
145°	888.8	888.9	888.3	887.8	887.2	886.5	886.0	885.6	885.2	884.8	884.4
147.5°	930.7	930.7	930.1	929.6	929.0	928.4	927.8	927.1	926.3	925.6	924.9
150°	956.7	956.7	956.3	955.9	955.5	955.1	954.7	954.3	953.9	953.5	953.1
152.5°	980.2	979.8	979.6	979.4	979.1	978.8	978.5	977.9	977.3	976.8	976.2
155°	1014.4	1013.6	1013.4	1013.3	1013.0	1012.8	1012.7	1012.7	1012.7	1012.7	1012.7
157.5°	1044.3	1043.4	1043.3	1043.1	1042.9	1042.8	1042.9	1043.0	1043.3	1043.6	1043.8
160°	1062.5	1061.5	1061.5	1061.5	1061.5	1061.5	1061.7	1062.1	1062.5	1062.9	1063.3
162.5°	1079.9	1078.9	1078.7	1078.5	1078.3	1078.2	1078.4	1079.0	1079.5	1080.1	1080.7
165°	1101.5	1100.4	1100.4	1100.4	1100.4	1100.4	1100.6	1101.3	1101.9	1102.4	1103.0
167.5°	1119.3	1118.0	1117.9	1117.8	1117.6	1117.4	1117.8	1118.6	1119.4	1120.2	1121.0
170°	1128.8	1127.5	1127.5	1127.5	1127.5	1127.5	1127.8	1128.6	1129.4	1130.2	1131.0
172.5°	1136.7	1135.4	1135.4	1135.4	1135.4	1135.4	1135.8	1136.6	1137.4	1138.2	1139.0
175°	1145.0	1143.7	1143.7	1143.7	1143.7	1143.7	1144.2	1145.0	1145.8	1146.6	1147.4
177.5°	1148.8	1147.9	1147.9	1147.9	1147.9	1147.9	1148.2	1148.8	1149.5	1150.1	1150.8
180°	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0



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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	7.0	8.9	11.2	13.8	16.5	19.1	21.7	22.5	23.3
92.5°	23.2	24.6	25.9	27.3	28.7	30.2	31.7	33.2	34.7	35.3	35.9
95°	54.7	56.1	57.5	58.9	60.5	62.1	63.7	65.3	66.9	67.7	68.5
97.5°	95.7	96.8	97.8	98.9	100.0	101.1	102.3	103.4	104.6	105.6	106.5
100°	124.0	125.3	126.4	127.7	128.8	129.8	130.8	131.8	132.8	133.4	134.0
102.5°	156.1	156.9	157.6	158.3	159.3	160.6	161.9	163.3	164.6	165.2	165.8
105°	203.7	204.1	204.5	204.9	206.0	207.8	209.6	211.4	213.2	213.2	213.2
107.5°	259.1	259.4	259.7	259.8	260.4	261.1	261.8	262.5	263.2	263.9	264.6
110°	294.0	294.4	294.8	295.2	295.6	296.0	296.4	296.9	297.2	298.0	298.8





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	330.0	330.2	330.5	330.7	330.8	330.9	331.0	331.1	331.2	332.2	333.1
115°	384.5	385.1	385.8	386.4	386.5	386.0	385.7	385.2	384.9	385.0	385.2
117.5°	438.9	439.3	439.7	440.1	440.1	439.5	439.0	438.5	438.0	437.9	437.9
120°	473.7	474.9	476.1	477.3	477.4	476.4	475.4	474.4	473.4	473.1	473.0
122.5°	508.8	509.7	510.5	511.4	511.6	511.1	510.6	510.1	509.5	509.0	508.5
125°	562.5	563.1	563.7	564.4	564.5	564.0	563.7	563.2	562.8	562.0	561.2
127.5°	613.1	614.4	615.6	616.9	617.3	616.9	616.4	616.0	615.5	614.5	613.3
130°	646.7	648.3	649.9	651.5	651.9	651.4	650.8	650.1	649.5	648.7	647.9
132.5°	679.8	681.4	683.1	684.7	685.3	684.8	684.4	683.9	683.5	682.5	681.6
135°	730.2	731.5	732.6	733.9	734.3	734.1	734.0	733.8	733.5	732.7	731.9
137.5°	777.0	778.0	779.0	780.1	780.8	781.3	781.9	782.4	782.9	782.0	781.2
140°	809.6	810.6	811.5	812.5	813.2	813.3	813.6	813.8	814.0	813.8	813.6
142.5°	839.2	840.2	841.2	842.2	842.8	843.2	843.6	844.0	844.4	844.1	843.9
145°	884.8	885.2	885.6	886.0	886.5	887.2	887.8	888.3	888.9	888.8	888.6
147.5°	925.6	926.3	927.1	927.8	928.4	929.0	929.6	930.1	930.7	930.7	930.7
150°	953.5	953.9	954.3	954.7	955.1	955.5	955.9	956.3	956.7	956.7	956.7
152.5°	976.8	977.3	977.9	978.5	978.8	979.1	979.4	979.6	979.8	980.2	980.4
155°	1012.7	1012.7	1012.7	1012.7	1012.8	1013.0	1013.3	1013.4	1013.6	1014.4	1015.2
157.5°	1043.6	1043.3	1043.0	1042.9	1042.8	1042.9	1043.1	1043.3	1043.4	1044.3	1045.1
160°	1062.9	1062.5	1062.1	1061.7	1061.5	1061.5	1061.5	1061.5	1061.5	1062.5	1063.5
162.5°	1080.1	1079.5	1079.0	1078.4	1078.2	1078.3	1078.5	1078.7	1078.9	1079.9	1080.8
165°	1102.4	1101.9	1101.3	1100.6	1100.4	1100.4	1100.4	1100.4	1100.4	1101.5	1102.8
167.5°	1120.2	1119.4	1118.6	1117.8	1117.4	1117.6	1117.8	1117.9	1118.0	1119.3	1120.5
170°	1130.2	1129.4	1128.6	1127.8	1127.5	1127.5	1127.5	1127.5	1127.5	1128.8	1130.2
172.5°	1138.2	1137.4	1136.6	1135.8	1135.4	1135.4	1135.4	1135.4	1135.4	1136.7	1137.9
175°	1146.6	1145.8	1145.0	1144.2	1143.7	1143.7	1143.7	1143.7	1143.7	1145.0	1146.1
177.5°	1150.1	1149.5	1148.8	1148.2	1147.9	1147.9	1147.9	1147.9	1147.9	1148.8	1149.8
180°	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0



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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	9.0	9.8	9.2
90°	24.1	24.9	25.5	25.9	26.3	26.7	27.1
92.5°	36.6	37.3	37.5	37.2	37.0	36.7	36.5
95°	69.3	70.1	70.4	70.4	70.4	70.4	70.4
97.5°	107.4	108.3	108.7	108.6	108.6	108.5	108.4
100°	134.6	135.2	135.7	136.1	136.5	136.9	137.3
102.5°	166.4	167.0	167.3	167.2	167.1	167.0	166.9
105°	213.2	213.2	213.4	213.8	214.2	214.6	215.0
107.5°	265.2	265.8	266.0	265.8	265.6	265.3	265.0
110°	299.6	300.4	300.6	300.2	299.8	299.4	299.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	334.0	335.0	335.5	335.4	335.3	335.3	335.2
115°	385.5	385.7	385.7	385.5	385.2	385.0	384.9
117.5°	437.8	437.8	437.5	436.9	436.4	435.8	435.2
120°	472.8	472.6	472.3	471.9	471.4	471.1	470.6
122.5°	507.9	507.5	506.8	506.3	505.8	505.2	504.6
125°	560.4	559.6	558.8	558.0	557.2	556.4	555.6
127.5°	612.2	611.1	610.0	609.1	608.2	607.3	606.4
130°	647.1	646.3	645.2	643.8	642.4	641.1	639.6
132.5°	680.6	679.7	678.7	677.5	676.5	675.4	674.3
135°	731.1	730.3	729.8	729.3	729.0	728.5	728.2
137.5°	780.3	779.5	778.7	777.9	777.2	776.4	775.7
140°	813.3	813.2	812.3	810.9	809.6	808.2	806.7
142.5°	843.7	843.6	842.8	841.8	840.7	839.6	838.6
145°	888.3	888.1	887.6	886.8	886.0	885.2	884.4
147.5°	930.7	930.7	930.1	928.9	927.6	926.5	925.2
150°	956.7	956.7	956.1	954.9	953.7	952.5	951.3
152.5°	980.8	981.1	980.8	979.7	978.7	977.6	976.6
155°	1016.0	1016.8	1016.6	1015.1	1013.7	1012.4	1010.9
157.5°	1046.0	1046.8	1046.7	1045.5	1044.5	1043.3	1042.1
160°	1064.5	1065.5	1065.6	1064.8	1064.0	1063.2	1062.4
162.5°	1081.8	1082.9	1082.7	1081.5	1080.1	1078.9	1077.5
165°	1103.9	1105.2	1105.1	1103.7	1102.2	1100.8	1099.5
167.5°	1121.8	1123.0	1123.0	1121.8	1120.5	1119.3	1118.0
170°	1131.7	1133.1	1133.1	1131.7	1130.2	1128.8	1127.5
172.5°	1139.2	1140.4	1140.3	1138.9	1137.5	1136.0	1134.7
175°	1147.4	1148.5	1148.4	1147.0	1145.6	1144.2	1142.8
177.5°	1150.8	1151.7	1151.6	1150.5	1149.4	1148.3	1147.2
180°	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0

(END OF REPORT)