

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: P331991-927

Luminaire Tested: **S123DIP-S775D1195U927-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331991-927  
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: S123DIP-S775D1195U927-4F0-1E-UDD-A  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 775 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1195 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6364.8 lumens  
Efficiency: N/A  
Efficacy: 111.9 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: General Diffuse

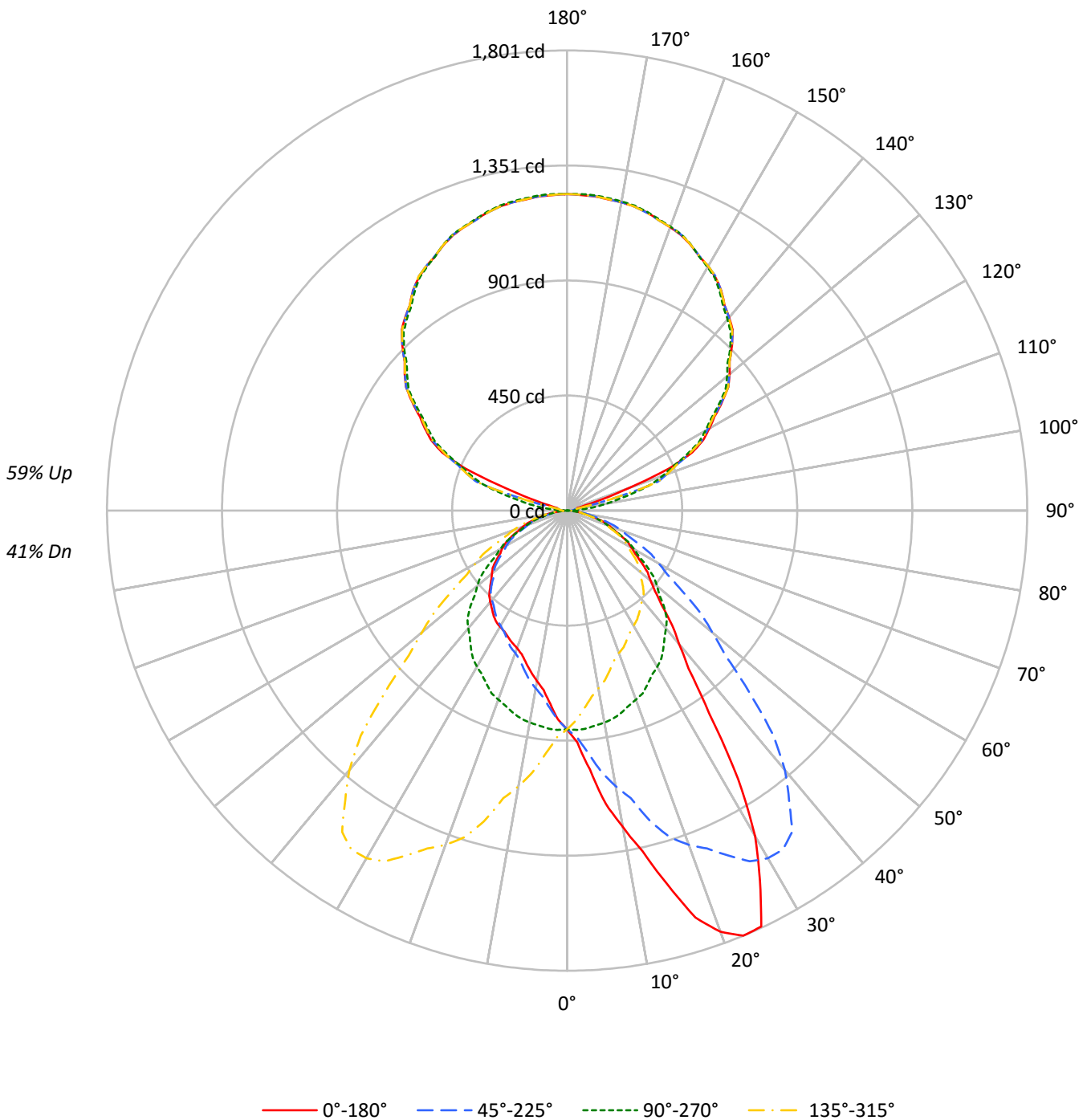
Input Watts (W): 56.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	48	48	48	41
1	96	92	88	85	87	84	81	78	69	67	65	55	54	52	42	41	41	35
2	87	80	74	69	79	73	68	64	60	57	54	49	46	44	37	36	34	29
3	80	71	64	58	73	65	59	54	53	49	45	43	40	37	33	31	30	25
4	73	63	55	49	66	57	51	46	48	43	39	38	35	32	30	28	26	22
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	27	24	22	19
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	25	22	20	17
7	57	45	37	32	52	42	35	30	35	29	26	28	24	22	22	20	18	15
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16	13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	18	15	13	11

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

	0°	90°	180°	270°
0°	9214	9214	9214	9214
5°	10988	9253	8200	9253
10°	13753	9206	7406	9206
15°	16868	9132	6896	9132
20°	20095	9016	6565	9016
25°	21338	8875	6492	8875
30°	18288	8772	6527	8772
35°	12720	8627	6594	8627
40°	9580	8455	6573	8455
45°	7954	8202	6491	8202
50°	7125	7681	6430	7681
55°	6662	7122	6351	7122
60°	6250	6536	6286	6536
65°	5873	5957	6082	5957
70°	5508	5297	5794	5297
75°	4932	4637	5311	4637
80°	4320	3806	4575	3806
85°	3384	2766	3075	2766



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.3	1.3
10°-20°	270.4	4.2
20°-30°	453.8	7.1
30°-40°	513.8	8.1
40°-50°	460.8	7.2
50°-60°	371.8	5.8
60°-70°	259.1	4.1
70°-80°	136.2	2.1
80°-90°	36.8	0.6
90°-100°	45.0	0.7
100°-110°	214.7	3.4
110°-120°	515.6	8.1
120°-130°	656.6	10.3
130°-140°	701.5	11.0
140°-150°	656.0	10.3
150°-160°	529.2	8.3
160°-170°	341.5	5.4
170°-180°	117.7	1.8
0°-30°	808.5	12.7
0°-40°	1322.3	20.8
0°-60°	2154.9	33.9
0°-90°	2587.0	40.6
90°-120°	775.3	12.2
90°-150°	2789.4	43.8
90°-180°	3778.0	59.4
0°-180°	6364.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	856	856	856	856	856	
5°	1017	856	759	856	1017	105
15°	1514	820	619	820	1514	437
25°	1797	747	547	747	1797	788
35°	968	656	502	656	968	629
45°	522	539	426	539	522	413
55°	355	380	338	380	355	319
65°	231	234	239	234	231	230
75°	119	112	128	112	119	127
85°	27	22	25	22	27	33
90°	28	1	28	1	28	14
95°	35	56	35	56	35	29
105°	40	274	40	274	40	93
115°	541	514	541	514	541	500
125°	740	725	740	725	740	661
135°	912	903	912	903	912	703
145°	1052	1042	1052	1042	1052	657
155°	1146	1148	1146	1148	1146	528
165°	1208	1210	1208	1210	1208	341
175°	1234	1239	1234	1239	1234	117
180°	1239	1239	1239	1239	1239	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0
2.5°	908.4	907.8	906.1	907.4	904.8	901.1	900.8	897.5	887.8	887.2	884.6
5°	1016.9	1013.6	1013.2	1012.7	1006.9	999.1	984.1	982.9	963.0	953.0	941.0
7.5°	1157.4	1159.1	1153.1	1147.8	1130.0	1118.3	1102.3	1081.8	1057.4	1032.6	1016.1
10°	1258.3	1271.9	1255.0	1243.3	1232.6	1212.2	1188.6	1159.1	1129.7	1095.3	1069.1
12.5°	1366.4	1373.2	1369.8	1358.8	1342.0	1311.1	1269.2	1236.8	1209.7	1152.3	1129.2
15°	1513.7	1539.1	1522.9	1485.5	1486.4	1456.9	1402.2	1342.0	1310.1	1259.9	1191.5
17.5°	1670.6	1673.8	1666.9	1635.9	1615.1	1574.6	1524.1	1466.5	1401.8	1341.0	1268.4
20°	1754.3	1751.8	1737.3	1721.1	1685.4	1653.9	1598.8	1534.5	1451.5	1391.8	1312.6
22.5°	1800.7	1796.6	1789.7	1776.2	1746.4	1712.6	1663.1	1592.8	1513.9	1431.6	1340.1
25°	1796.6	1802.0	1802.8	1799.0	1788.7	1768.4	1729.4	1673.4	1594.6	1488.8	1393.4
27.5°	1634.0	1641.6	1663.8	1683.5	1705.4	1727.8	1724.8	1697.0	1638.7	1547.4	1430.8
30°	1471.4	1454.8	1495.9	1547.8	1583.0	1645.2	1680.1	1682.1	1649.3	1571.0	1457.3
32.5°	1245.8	1264.1	1282.2	1346.0	1423.1	1492.9	1562.3	1618.1	1624.4	1572.3	1472.9
35°	968.0	990.8	1024.0	1057.1	1140.1	1211.4	1333.3	1439.5	1524.1	1535.3	1474.3
37.5°	780.0	791.3	812.3	845.5	899.8	984.4	1078.7	1212.9	1335.5	1426.6	1430.6
40°	681.8	685.2	708.8	734.0	778.0	847.7	932.7	1051.3	1198.1	1325.5	1378.6
42.5°	608.2	615.4	625.5	649.7	684.8	737.2	816.3	914.3	1048.8	1195.4	1299.3
45°	522.5	530.8	537.1	553.3	578.1	613.4	668.5	758.1	860.5	1011.9	1151.7
47.5°	466.0	466.7	471.3	483.5	500.4	526.9	565.9	623.4	717.5	840.2	983.7
50°	425.5	432.1	433.8	443.3	456.6	476.1	508.4	557.4	634.5	742.4	874.3
52.5°	397.0	398.9	403.6	410.5	422.1	437.3	465.3	503.7	564.2	656.1	777.4
55°	355.0	355.0	359.6	365.0	371.6	385.2	403.9	432.1	478.2	549.5	649.9
57.5°	316.2	318.2	321.5	323.1	328.8	337.9	353.4	374.9	409.2	464.1	543.8
60°	290.3	294.1	293.7	296.9	301.9	309.0	322.3	339.7	370.3	414.3	481.5
62.5°	267.8	267.5	267.4	271.4	276.4	283.1	291.7	306.8	332.9	371.9	429.0
65°	230.6	229.7	232.7	235.1	236.8	241.8	248.4	261.7	279.1	308.2	352.5
67.5°	197.6	195.2	196.8	197.6	200.4	204.3	210.5	218.7	232.6	255.9	289.3
70°	175.0	172.9	172.5	173.3	175.9	178.7	183.3	191.2	204.1	222.7	247.2
72.5°	151.8	150.4	150.3	152.1	153.3	155.2	158.4	165.6	175.9	189.9	212.7
75°	118.6	118.6	118.6	119.0	120.3	121.9	124.5	128.2	136.0	146.0	161.3
77.5°	88.9	88.8	88.3	88.2	90.1	90.9	91.4	94.9	99.3	106.0	117.2
80°	69.7	67.6	68.4	69.7	70.5	70.9	72.2	73.0	76.8	80.5	88.3
82.5°	51.7	50.0	50.1	52.1	52.3	52.7	53.9	55.1	56.5	59.9	64.1
85°	27.4	27.4	27.8	27.8	28.2	27.8	29.0	29.5	29.5	31.5	34.0
87.5°	15.4	14.7	15.0	15.2	14.8	15.1	15.2	15.4	15.5	15.7	15.5
90°	27.6	27.2	26.8	26.4	26.0	25.3	24.6	23.7	22.9	22.1	19.4
92.5°	30.6	30.3	30.1	29.8	29.5	28.8	27.5	26.1	24.9	23.5	21.5
95°	34.9	34.9	34.9	34.9	34.9	34.2	32.8	31.4	29.9	28.5	26.3
97.5°	37.9	37.7	37.5	37.3	37.1	36.2	34.5	32.9	31.3	29.6	44.4
100°	38.7	38.4	38.3	38.0	37.9	36.9	35.3	33.7	32.0	30.3	62.3
102.5°	39.4	39.1	38.7	38.3	37.9	40.2	45.3	50.4	55.5	60.5	95.4
105°	40.5	40.1	39.7	39.3	38.9	56.7	92.9	129.1	165.3	201.5	220.0
107.5°	127.2	154.5	181.7	209.1	236.3	263.2	289.8	316.3	342.9	369.5	366.5
110°	253.1	282.3	311.6	340.9	370.1	388.1	394.8	401.6	408.4	415.1	412.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	434.2	440.4	446.6	452.7	458.9	462.0	461.8	461.7	461.6	461.4	459.2
115°	541.1	540.3	539.6	538.7	537.9	536.5	534.4	532.3	530.4	528.3	526.5
117.5°	601.2	601.0	600.9	600.7	600.6	599.6	598.0	596.4	594.7	593.1	592.2
120°	642.4	642.4	642.4	642.4	642.4	641.6	639.9	638.3	636.7	635.0	634.5
122.5°	682.9	682.8	682.5	682.4	682.2	681.6	680.5	679.3	678.2	677.0	676.2
125°	740.0	739.6	739.2	738.7	738.3	737.9	737.5	737.1	736.7	736.3	735.5
127.5°	794.8	795.3	795.7	796.1	796.5	796.3	795.7	795.0	794.4	793.7	792.7
130°	830.2	830.6	831.0	831.4	831.8	831.6	830.8	830.0	829.2	828.3	827.5
132.5°	862.5	863.2	863.7	864.3	864.8	864.7	864.0	863.1	862.3	861.5	860.8
135°	912.1	912.7	913.3	913.9	914.6	914.6	913.9	913.3	912.7	912.1	911.2
137.5°	958.6	959.1	959.5	959.9	960.3	960.0	959.0	958.1	957.0	956.1	955.6
140°	986.7	987.1	987.5	987.9	988.2	988.1	987.2	986.4	985.6	984.8	984.2
142.5°	1012.4	1013.0	1013.5	1014.2	1014.7	1014.6	1014.0	1013.4	1012.7	1012.0	1011.5
145°	1051.9	1051.9	1051.9	1051.9	1051.9	1051.8	1051.4	1051.0	1050.5	1050.1	1049.7
147.5°	1081.4	1082.4	1083.3	1084.3	1085.2	1085.4	1085.1	1084.7	1084.3	1083.8	1083.4
150°	1103.5	1104.1	1104.8	1105.3	1106.0	1106.0	1105.6	1105.3	1104.9	1104.5	1104.1
152.5°	1121.2	1122.1	1123.1	1124.0	1125.0	1125.1	1124.3	1123.6	1122.8	1122.1	1121.9
155°	1145.9	1147.1	1148.3	1149.5	1150.7	1150.9	1149.9	1148.8	1147.8	1146.8	1146.6
157.5°	1166.6	1168.2	1169.8	1171.5	1173.1	1173.2	1172.0	1170.8	1169.6	1168.3	1168.5
160°	1179.9	1181.3	1182.8	1184.2	1185.7	1185.7	1184.5	1183.3	1182.1	1180.8	1181.1
162.5°	1192.4	1193.7	1194.9	1196.2	1197.5	1197.5	1196.0	1194.7	1193.3	1191.8	1192.1
165°	1207.5	1208.9	1210.4	1211.8	1213.2	1213.1	1211.5	1209.9	1208.2	1206.6	1206.8
167.5°	1218.4	1220.0	1221.6	1223.3	1225.0	1225.0	1223.3	1221.6	1220.0	1218.4	1218.4
170°	1225.0	1226.6	1228.3	1229.9	1231.5	1231.5	1229.9	1228.3	1226.6	1225.0	1225.0
172.5°	1228.7	1230.5	1232.3	1234.1	1235.9	1236.0	1234.3	1232.7	1231.1	1229.4	1229.2
175°	1234.2	1235.9	1237.5	1239.1	1240.7	1240.9	1239.4	1238.0	1236.6	1235.1	1234.9
177.5°	1235.9	1237.5	1239.1	1240.8	1242.4	1242.5	1241.3	1239.9	1238.7	1237.3	1237.2
180°	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0
2.5°	882.5	879.9	877.2	872.6	868.6	862.9	861.3	859.3	853.3	848.0	844.1
5°	936.4	926.5	912.0	898.7	888.0	873.4	865.1	856.4	844.0	832.7	823.6
7.5°	992.8	973.3	950.7	926.3	903.6	881.7	864.0	848.3	830.8	814.4	801.5
10°	1037.6	1009.4	977.9	943.9	914.9	886.7	863.0	842.3	819.9	800.4	784.3
12.5°	1088.7	1046.9	1003.5	962.2	927.8	888.7	860.1	833.7	808.3	784.8	766.7
15°	1149.2	1096.1	1044.7	987.9	935.6	886.7	852.7	819.5	790.0	766.0	742.8
17.5°	1204.3	1144.1	1076.3	1007.3	944.2	886.2	838.6	801.1	764.2	734.8	711.7
20°	1235.5	1167.0	1090.3	1018.6	948.9	884.2	831.9	787.1	747.3	716.2	690.1
22.5°	1262.3	1182.3	1102.9	1026.2	948.6	878.8	819.7	773.6	730.4	700.0	672.2
25°	1290.2	1194.4	1114.8	1024.8	938.1	865.9	799.5	747.3	704.2	668.5	639.9
27.5°	1314.1	1193.6	1099.1	1002.3	921.7	849.4	778.5	722.5	676.7	637.9	608.9
30°	1330.0	1195.2	1082.8	987.1	905.8	831.1	762.2	705.8	657.7	618.4	591.0
32.5°	1340.0	1194.2	1067.9	965.8	880.5	814.5	744.7	686.3	636.8	598.1	571.7
35°	1345.8	1186.9	1042.2	921.9	839.8	775.5	717.1	656.5	604.7	568.5	538.8
37.5°	1334.2	1171.6	1012.3	879.6	789.7	726.4	677.2	625.7	576.1	536.3	510.6
40°	1315.9	1161.7	989.1	849.8	755.2	694.3	652.4	601.7	552.8	515.1	491.0
42.5°	1281.0	1141.4	963.5	816.6	719.4	658.4	619.9	577.6	531.2	495.8	471.8
45°	1196.0	1097.3	925.3	766.8	666.5	603.4	569.4	538.8	496.9	462.4	441.6
47.5°	1078.1	1031.1	869.8	714.3	611.2	550.6	515.2	490.5	459.9	432.1	412.3
50°	996.2	976.7	832.3	678.5	574.4	515.1	481.1	458.7	436.7	408.9	390.7
52.5°	901.6	913.6	788.5	641.4	536.9	478.6	446.6	428.8	408.8	386.0	370.1
55°	768.5	812.0	712.9	578.9	481.1	425.5	395.2	379.5	367.9	350.9	337.2
57.5°	643.8	699.3	631.1	514.7	426.3	378.3	349.3	332.1	324.6	315.8	305.0
60°	569.8	624.6	572.7	471.5	389.4	343.8	318.1	303.6	296.1	289.9	280.7
62.5°	503.8	559.2	515.6	427.8	353.2	310.9	288.6	274.4	268.5	265.3	257.5
65°	413.0	460.7	431.7	359.6	301.5	264.2	243.8	233.9	228.5	227.3	222.3
67.5°	336.2	372.5	351.3	298.3	252.5	220.3	203.0	194.6	190.4	190.0	186.3
70°	285.7	319.7	303.6	255.5	216.1	190.8	175.9	168.3	165.9	165.5	163.4
72.5°	246.6	270.3	257.5	217.3	186.9	163.9	153.0	145.1	142.4	142.9	141.5
75°	182.4	200.3	192.8	165.1	140.6	125.6	116.5	111.5	109.1	110.4	108.7
77.5°	131.3	142.6	135.9	116.6	101.6	90.7	84.1	81.0	78.7	78.7	77.9
80°	99.1	105.8	102.0	90.4	78.0	68.8	63.5	61.4	60.1	59.7	59.3
82.5°	70.6	76.2	71.9	63.8	55.4	49.9	46.9	44.1	43.3	43.5	43.0
85°	35.6	37.7	36.0	31.1	27.8	25.3	23.6	22.4	21.5	21.9	21.2
87.5°	15.6	15.4	13.9	12.1	11.0	9.7	9.2	8.2	7.9	8.3	8.4
90°	16.8	14.1	11.5	9.1	7.1	5.0	2.9	1.0	2.9	5.0	7.1
92.5°	19.6	17.6	15.5	14.8	15.4	16.0	16.6	17.1	16.6	16.0	15.4
95°	24.0	21.8	19.6	22.6	31.0	39.4	47.8	56.2	47.8	39.4	31.0
97.5°	59.1	73.8	88.6	97.8	101.6	105.3	109.1	112.8	109.1	105.3	101.6
100°	94.2	126.1	158.0	171.9	167.8	163.7	159.6	155.5	159.6	163.7	167.8
102.5°	130.2	165.1	199.9	215.9	212.9	210.0	207.1	204.1	207.1	210.0	212.9
105°	238.4	256.7	275.2	283.3	281.0	278.8	276.6	274.3	276.6	278.8	281.0
107.5°	363.6	360.8	357.8	355.5	353.6	351.9	350.1	348.2	350.1	351.9	353.6
110°	410.6	408.4	406.1	404.2	402.5	400.8	399.3	397.6	399.3	400.8	402.5





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	457.0	454.7	452.5	450.6	449.2	447.7	446.2	444.7	446.2	447.7	449.2
115°	524.6	522.8	520.9	519.4	518.2	516.9	515.7	514.5	515.7	516.9	518.2
117.5°	591.2	590.3	589.3	588.1	586.6	585.0	583.5	582.0	583.5	585.0	586.6
120°	633.8	633.2	632.6	631.4	629.5	627.7	625.8	624.0	625.8	627.7	629.5
122.5°	675.5	674.7	673.9	672.8	671.2	669.7	668.2	666.7	668.2	669.7	671.2
125°	734.7	733.8	733.0	731.8	730.2	728.5	726.9	725.2	726.9	728.5	730.2
127.5°	791.8	790.8	789.8	788.5	786.9	785.2	783.5	782.0	783.5	785.2	786.9
130°	826.7	825.9	825.1	823.8	822.2	820.5	819.0	817.3	819.0	820.5	822.2
132.5°	860.2	859.5	858.8	857.7	856.0	854.4	852.8	851.1	852.8	854.4	856.0
135°	910.5	909.7	908.8	907.8	906.6	905.3	904.1	902.9	904.1	905.3	906.6
137.5°	955.2	954.7	954.3	953.3	951.7	950.1	948.6	947.1	948.6	950.1	951.7
140°	983.6	982.9	982.3	981.4	980.2	979.0	977.7	976.5	977.7	979.0	980.2
142.5°	1010.8	1010.2	1009.6	1008.7	1007.4	1006.2	1005.0	1003.8	1005.0	1006.2	1007.4
145°	1049.3	1048.9	1048.5	1047.6	1046.2	1044.7	1043.3	1041.9	1043.3	1044.7	1046.2
147.5°	1083.0	1082.6	1082.2	1081.5	1080.5	1079.7	1078.7	1077.8	1078.7	1079.7	1080.5
150°	1103.6	1103.2	1102.8	1102.3	1101.7	1101.1	1100.4	1099.9	1100.4	1101.1	1101.7
152.5°	1121.7	1121.3	1121.1	1120.9	1120.5	1120.3	1120.0	1119.7	1120.0	1120.3	1120.5
155°	1146.4	1146.1	1146.0	1146.1	1146.4	1146.8	1147.3	1147.7	1147.3	1146.8	1146.4
157.5°	1168.7	1168.9	1169.1	1169.3	1169.3	1169.3	1169.3	1169.4	1169.3	1169.3	1169.3
160°	1181.2	1181.5	1181.6	1181.9	1182.1	1182.3	1182.5	1182.6	1182.5	1182.3	1182.1
162.5°	1192.3	1192.5	1192.7	1193.0	1193.6	1194.1	1194.7	1195.2	1194.7	1194.1	1193.6
165°	1207.0	1207.2	1207.4	1207.8	1208.5	1209.0	1209.7	1210.3	1209.7	1209.0	1208.5
167.5°	1218.4	1218.4	1218.4	1218.8	1219.6	1220.4	1221.2	1222.1	1221.2	1220.4	1219.6
170°	1225.0	1225.0	1225.0	1225.4	1226.2	1227.1	1227.9	1228.7	1227.9	1227.1	1226.2
172.5°	1229.1	1228.9	1228.8	1229.2	1230.2	1231.1	1232.2	1233.1	1232.2	1231.1	1230.2
175°	1234.7	1234.5	1234.3	1234.7	1235.7	1236.8	1237.8	1238.8	1237.8	1236.8	1235.7
177.5°	1237.0	1236.8	1236.7	1237.0	1237.9	1238.7	1239.4	1240.3	1239.4	1238.7	1237.9
180°	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0
2.5°	841.7	839.4	836.1	831.1	827.1	820.8	820.8	821.8	821.8	821.5	820.8
5°	816.2	809.9	802.5	793.8	784.7	775.5	773.9	770.6	768.1	766.4	764.3
7.5°	789.3	778.2	767.3	755.1	744.0	734.8	728.4	723.1	719.7	716.1	713.4
10°	771.0	757.2	744.4	731.6	717.5	706.3	699.3	694.3	690.5	687.2	685.6
12.5°	749.4	733.7	719.5	707.3	691.9	680.4	673.7	671.4	666.9	660.0	656.3
15°	717.9	703.4	686.3	667.7	660.2	646.1	638.3	634.5	632.0	626.6	625.0
17.5°	690.9	671.9	652.8	638.9	625.0	613.6	609.2	604.6	601.3	596.8	595.6
20°	669.4	652.4	634.9	620.0	605.5	593.0	589.3	586.0	582.7	580.6	578.9
22.5°	647.5	630.5	616.0	602.1	586.6	578.5	574.4	570.8	568.4	567.0	565.4
25°	616.7	601.7	585.6	573.1	560.7	555.3	552.8	550.7	549.1	547.0	546.6
27.5°	589.1	572.9	559.8	548.2	539.2	534.7	532.3	531.3	531.7	532.4	532.9
30°	568.5	553.7	542.9	532.9	524.7	520.5	520.1	520.1	521.7	522.1	523.0
32.5°	549.7	537.4	526.6	517.0	510.7	507.9	509.5	509.5	510.8	511.8	513.3
35°	522.1	511.4	503.0	494.8	489.4	490.6	491.5	492.3	494.3	496.9	498.5
37.5°	495.8	486.5	477.8	471.3	468.9	471.1	473.1	474.8	477.3	479.2	480.9
40°	476.9	469.8	461.6	455.7	456.6	457.9	459.5	461.6	463.7	464.9	466.6
42.5°	459.3	451.9	445.7	440.8	442.0	443.6	444.6	445.7	448.1	450.3	451.3
45°	432.5	426.7	421.0	418.0	418.9	419.7	420.5	421.8	423.8	425.5	426.0
47.5°	402.4	398.4	394.5	391.7	393.0	392.7	393.7	396.4	397.0	398.1	400.4
50°	383.2	379.5	374.9	374.1	374.1	374.1	374.5	377.8	377.8	379.5	381.1
52.5°	361.9	359.6	356.6	355.1	354.5	354.5	356.2	357.9	358.5	360.9	362.6
55°	330.5	328.0	325.6	324.3	323.4	324.3	327.6	328.4	330.5	331.8	333.0
57.5°	297.8	295.9	293.9	293.2	293.0	294.1	296.0	298.4	299.0	302.8	304.7
60°	276.2	273.3	271.6	271.6	270.8	274.6	273.7	277.9	278.7	281.1	284.1
62.5°	254.0	250.1	249.4	249.4	250.6	251.7	252.8	254.6	256.8	259.9	262.2
65°	218.2	216.1	219.0	218.6	217.7	220.2	220.2	222.3	224.7	227.7	232.3
67.5°	184.2	183.2	183.4	183.4	184.7	186.1	187.2	189.0	192.0	195.1	198.0
70°	161.3	162.6	160.5	162.2	163.4	163.8	164.6	167.2	170.5	172.5	175.9
72.5°	139.1	139.0	139.3	139.9	141.2	141.9	142.8	145.6	149.2	151.0	153.6
75°	107.0	106.5	107.8	107.8	109.9	110.7	111.5	112.8	116.1	118.6	120.6
77.5°	78.1	78.7	78.3	79.8	79.2	79.4	81.9	83.2	83.5	88.4	89.5
80°	58.9	59.7	60.1	60.5	61.0	60.1	63.1	64.2	64.2	67.2	69.2
82.5°	42.3	42.8	43.9	44.3	44.4	45.2	45.5	46.3	47.4	48.6	51.3
85°	21.2	22.4	22.8	22.4	22.8	21.9	23.2	23.6	24.1	24.1	24.1
87.5°	8.5	9.3	9.4	10.3	10.5	11.4	11.6	11.0	11.2	12.4	11.2
90°	9.1	11.5	14.1	16.8	19.4	22.1	22.9	23.7	24.6	25.3	26.0
92.5°	14.8	15.5	17.6	19.6	21.5	23.5	24.9	26.1	27.5	28.8	29.5
95°	22.6	19.6	21.8	24.0	26.3	28.5	29.9	31.4	32.8	34.2	34.9
97.5°	97.8	88.6	73.8	59.1	44.4	29.6	31.3	32.9	34.5	36.2	37.1
100°	171.9	158.0	126.1	94.2	62.3	30.3	32.0	33.7	35.3	36.9	37.9
102.5°	215.9	199.9	165.1	130.2	95.4	60.5	55.5	50.4	45.3	40.2	37.9
105°	283.3	275.2	256.7	238.4	220.0	201.5	165.3	129.1	92.9	56.7	38.9
107.5°	355.5	357.8	360.8	363.6	366.5	369.5	342.9	316.3	289.8	263.2	236.3
110°	404.2	406.1	408.4	410.6	412.8	415.1	408.4	401.6	394.8	388.1	370.1



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	450.6	452.5	454.7	457.0	459.2	461.4	461.6	461.7	461.8	462.0	458.9
115°	519.4	520.9	522.8	524.6	526.5	528.3	530.4	532.3	534.4	536.5	537.9
117.5°	588.1	589.3	590.3	591.2	592.2	593.1	594.7	596.4	598.0	599.6	600.6
120°	631.4	632.6	633.2	633.8	634.5	635.0	636.7	638.3	639.9	641.6	642.4
122.5°	672.8	673.9	674.7	675.5	676.2	677.0	678.2	679.3	680.5	681.6	682.2
125°	731.8	733.0	733.8	734.7	735.5	736.3	736.7	737.1	737.5	737.9	738.3
127.5°	788.5	789.8	790.8	791.8	792.7	793.7	794.4	795.0	795.7	796.3	796.5
130°	823.8	825.1	825.9	826.7	827.5	828.3	829.2	830.0	830.8	831.6	831.8
132.5°	857.7	858.8	859.5	860.2	860.8	861.5	862.3	863.1	864.0	864.7	864.8
135°	907.8	908.8	909.7	910.5	911.2	912.1	912.7	913.3	913.9	914.6	914.6
137.5°	953.3	954.3	954.7	955.2	955.6	956.1	957.0	958.1	959.0	960.0	960.3
140°	981.4	982.3	982.9	983.6	984.2	984.8	985.6	986.4	987.2	988.1	988.2
142.5°	1008.7	1009.6	1010.2	1010.8	1011.5	1012.0	1012.7	1013.4	1014.0	1014.6	1014.7
145°	1047.6	1048.5	1048.9	1049.3	1049.7	1050.1	1050.5	1051.0	1051.4	1051.8	1051.9
147.5°	1081.5	1082.2	1082.6	1083.0	1083.4	1083.8	1084.3	1084.7	1085.1	1085.4	1085.2
150°	1102.3	1102.8	1103.2	1103.6	1104.1	1104.5	1104.9	1105.3	1105.6	1106.0	1106.0
152.5°	1120.9	1121.1	1121.3	1121.7	1121.9	1122.1	1122.8	1123.6	1124.3	1125.1	1125.0
155°	1146.1	1146.0	1146.1	1146.4	1146.6	1146.8	1147.8	1148.8	1149.9	1150.9	1150.7
157.5°	1169.3	1169.1	1168.9	1168.7	1168.5	1168.3	1169.6	1170.8	1172.0	1173.2	1173.1
160°	1181.9	1181.6	1181.5	1181.2	1181.1	1180.8	1182.1	1183.3	1184.5	1185.7	1185.7
162.5°	1193.0	1192.7	1192.5	1192.3	1192.1	1191.8	1193.3	1194.7	1196.0	1197.5	1197.5
165°	1207.8	1207.4	1207.2	1207.0	1206.8	1206.6	1208.2	1209.9	1211.5	1213.1	1213.2
167.5°	1218.8	1218.4	1218.4	1218.4	1218.4	1218.4	1220.0	1221.6	1223.3	1225.0	1225.0
170°	1225.4	1225.0	1225.0	1225.0	1225.0	1225.0	1226.6	1228.3	1229.9	1231.5	1231.5
172.5°	1229.2	1228.8	1228.9	1229.1	1229.2	1229.4	1231.1	1232.7	1234.3	1236.0	1235.9
175°	1234.7	1234.3	1234.5	1234.7	1234.9	1235.1	1236.6	1238.0	1239.4	1240.9	1240.7
177.5°	1237.0	1236.7	1236.8	1237.0	1237.2	1237.3	1238.7	1239.9	1241.3	1242.5	1242.4
180°	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0
2.5°	818.5	818.2	820.5	818.8	820.5	818.2	818.5	820.8	821.5	821.8	821.8
5°	761.8	763.1	758.9	758.9	758.9	763.1	761.8	764.3	766.4	768.1	770.6
7.5°	711.4	709.6	709.7	707.5	709.7	709.6	711.4	713.4	716.1	719.7	723.1
10°	680.6	678.1	677.2	677.6	677.2	678.1	680.6	685.6	687.2	690.5	694.3
12.5°	655.0	654.5	649.0	649.1	649.0	654.5	655.0	656.3	660.0	666.9	671.4
15°	625.0	617.1	616.2	618.8	616.2	617.1	625.0	625.0	626.6	632.0	634.5
17.5°	594.8	590.7	591.0	589.7	591.0	590.7	594.8	595.6	596.8	601.3	604.6
20°	578.9	576.5	576.1	573.1	576.1	576.5	578.9	578.9	580.6	582.7	586.0
22.5°	564.4	563.6	563.8	560.5	563.8	563.6	564.4	565.4	567.0	568.4	570.8
25°	546.2	548.3	546.6	546.6	546.6	548.3	546.2	546.6	547.0	549.1	550.7
27.5°	533.9	533.9	533.0	533.0	533.0	533.9	533.9	532.9	532.4	531.7	531.3
30°	524.7	524.2	525.1	525.1	525.1	524.2	524.7	523.0	522.1	521.7	520.1
32.5°	515.3	515.9	516.1	516.4	516.1	515.9	515.3	513.3	511.8	510.8	509.5
35°	501.0	501.4	502.6	501.8	502.6	501.4	501.0	498.5	496.9	494.3	492.3
37.5°	481.6	483.5	483.1	483.7	483.1	483.5	481.6	480.9	479.2	477.3	474.8
40°	467.0	468.3	467.8	467.8	467.8	468.3	467.0	466.6	464.9	463.7	461.6
42.5°	452.0	453.0	451.9	451.2	451.9	453.0	452.0	451.3	450.3	448.1	445.7
45°	427.5	426.7	428.0	426.4	428.0	426.7	427.5	426.0	425.5	423.8	421.8
47.5°	400.2	401.0	401.4	402.6	401.4	401.0	400.2	400.4	398.1	397.0	396.4
50°	382.0	384.4	384.4	384.0	384.4	384.4	382.0	381.1	379.5	377.8	377.8
52.5°	364.0	365.2	366.9	366.8	366.9	365.2	364.0	362.6	360.9	358.5	357.9
55°	336.4	337.2	338.0	338.4	338.0	337.2	336.4	333.0	331.8	330.5	328.4
57.5°	307.6	307.3	309.3	309.9	309.3	307.3	307.6	304.7	302.8	299.0	298.4
60°	287.4	287.4	290.7	292.0	290.7	287.4	287.4	284.1	281.1	278.7	277.9
62.5°	265.9	267.2	270.5	268.7	270.5	267.2	265.9	262.2	259.9	256.8	254.6
65°	234.3	237.7	237.3	238.8	237.3	237.7	234.3	232.3	227.7	224.7	222.3
67.5°	201.4	203.4	206.4	206.7	206.4	203.4	201.4	198.0	195.1	192.0	189.0
70°	179.2	181.3	182.9	184.1	182.9	181.3	179.2	175.9	172.5	170.5	167.2
72.5°	157.6	158.7	162.6	160.9	162.6	158.7	157.6	153.6	151.0	149.2	145.6
75°	123.6	126.5	129.0	127.7	129.0	126.5	123.6	120.6	118.6	116.1	112.8
77.5°	91.4	94.3	95.5	94.4	95.5	94.3	91.4	89.5	88.4	83.5	83.2
80°	72.2	71.8	74.2	73.8	74.2	71.8	72.2	69.2	67.2	64.2	64.2
82.5°	52.9	52.5	53.6	53.9	53.6	52.5	52.9	51.3	48.6	47.4	46.3
85°	25.7	26.9	25.3	24.9	25.3	26.9	25.7	24.1	24.1	24.1	23.6
87.5°	11.2	11.3	11.1	10.9	11.1	11.3	11.2	11.2	12.4	11.2	11.0
90°	26.4	26.8	27.2	27.6	27.2	26.8	26.4	26.0	25.3	24.6	23.7
92.5°	29.8	30.1	30.3	30.6	30.3	30.1	29.8	29.5	28.8	27.5	26.1
95°	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.2	32.8	31.4
97.5°	37.3	37.5	37.7	37.9	37.7	37.5	37.3	37.1	36.2	34.5	32.9
100°	38.0	38.3	38.4	38.7	38.4	38.3	38.0	37.9	36.9	35.3	33.7
102.5°	38.3	38.7	39.1	39.4	39.1	38.7	38.3	37.9	40.2	45.3	50.4
105°	39.3	39.7	40.1	40.5	40.1	39.7	39.3	38.9	56.7	92.9	129.1
107.5°	209.1	181.7	154.5	127.2	154.5	181.7	209.1	236.3	263.2	289.8	316.3
110°	340.9	311.6	282.3	253.1	282.3	311.6	340.9	370.1	388.1	394.8	401.6



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	452.7	446.6	440.4	434.2	440.4	446.6	452.7	458.9	462.0	461.8	461.7
115°	538.7	539.6	540.3	541.1	540.3	539.6	538.7	537.9	536.5	534.4	532.3
117.5°	600.7	600.9	601.0	601.2	601.0	600.9	600.7	600.6	599.6	598.0	596.4
120°	642.4	642.4	642.4	642.4	642.4	642.4	642.4	642.4	641.6	639.9	638.3
122.5°	682.4	682.5	682.8	682.9	682.8	682.5	682.4	682.2	681.6	680.5	679.3
125°	738.7	739.2	739.6	740.0	739.6	739.2	738.7	738.3	737.9	737.5	737.1
127.5°	796.1	795.7	795.3	794.8	795.3	795.7	796.1	796.5	796.3	795.7	795.0
130°	831.4	831.0	830.6	830.2	830.6	831.0	831.4	831.8	831.6	830.8	830.0
132.5°	864.3	863.7	863.2	862.5	863.2	863.7	864.3	864.8	864.7	864.0	863.1
135°	913.9	913.3	912.7	912.1	912.7	913.3	913.9	914.6	914.6	913.9	913.3
137.5°	959.9	959.5	959.1	958.6	959.1	959.5	959.9	960.3	960.0	959.0	958.1
140°	987.9	987.5	987.1	986.7	987.1	987.5	987.9	988.2	988.1	987.2	986.4
142.5°	1014.2	1013.5	1013.0	1012.4	1013.0	1013.5	1014.2	1014.7	1014.6	1014.0	1013.4
145°	1051.9	1051.9	1051.9	1051.9	1051.9	1051.9	1051.9	1051.9	1051.8	1051.4	1051.0
147.5°	1084.3	1083.3	1082.4	1081.4	1082.4	1083.3	1084.3	1085.2	1085.4	1085.1	1084.7
150°	1105.3	1104.8	1104.1	1103.5	1104.1	1104.8	1105.3	1106.0	1106.0	1105.6	1105.3
152.5°	1124.0	1123.1	1122.1	1121.2	1122.1	1123.1	1124.0	1125.0	1125.1	1124.3	1123.6
155°	1149.5	1148.3	1147.1	1145.9	1147.1	1148.3	1149.5	1150.7	1150.9	1149.9	1148.8
157.5°	1171.5	1169.8	1168.2	1166.6	1168.2	1169.8	1171.5	1173.1	1173.2	1172.0	1170.8
160°	1184.2	1182.8	1181.3	1179.9	1181.3	1182.8	1184.2	1185.7	1185.7	1184.5	1183.3
162.5°	1196.2	1194.9	1193.7	1192.4	1193.7	1194.9	1196.2	1197.5	1197.5	1196.0	1194.7
165°	1211.8	1210.4	1208.9	1207.5	1208.9	1210.4	1211.8	1213.2	1213.1	1211.5	1209.9
167.5°	1223.3	1221.6	1220.0	1218.4	1220.0	1221.6	1223.3	1225.0	1225.0	1223.3	1221.6
170°	1229.9	1228.3	1226.6	1225.0	1226.6	1228.3	1229.9	1231.5	1231.5	1229.9	1228.3
172.5°	1234.1	1232.3	1230.5	1228.7	1230.5	1232.3	1234.1	1235.9	1236.0	1234.3	1232.7
175°	1239.1	1237.5	1235.9	1234.2	1235.9	1237.5	1239.1	1240.7	1240.9	1239.4	1238.0
177.5°	1240.8	1239.1	1237.5	1235.9	1237.5	1239.1	1240.8	1242.4	1242.5	1241.3	1239.9
180°	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0
2.5°	820.8	820.8	827.1	831.1	836.1	839.4	841.7	844.1	848.0	853.3	859.3
5°	773.9	775.5	784.7	793.8	802.5	809.9	816.2	823.6	832.7	844.0	856.4
7.5°	728.4	734.8	744.0	755.1	767.3	778.2	789.3	801.5	814.4	830.8	848.3
10°	699.3	706.3	717.5	731.6	744.4	757.2	771.0	784.3	800.4	819.9	842.3
12.5°	673.7	680.4	691.9	707.3	719.5	733.7	749.4	766.7	784.8	808.3	833.7
15°	638.3	646.1	660.2	667.7	686.3	703.4	717.9	742.8	766.0	790.0	819.5
17.5°	609.2	613.6	625.0	638.9	652.8	671.9	690.9	711.7	734.8	764.2	801.1
20°	589.3	593.0	605.5	620.0	634.9	652.4	669.4	690.1	716.2	747.3	787.1
22.5°	574.4	578.5	586.6	602.1	616.0	630.5	647.5	672.2	700.0	730.4	773.6
25°	552.8	555.3	560.7	573.1	585.6	601.7	616.7	639.9	668.5	704.2	747.3
27.5°	532.3	534.7	539.2	548.2	559.8	572.9	589.1	608.9	637.9	676.7	722.5
30°	520.1	520.5	524.7	532.9	542.9	553.7	568.5	591.0	618.4	657.7	705.8
32.5°	509.5	507.9	510.7	517.0	526.6	537.4	549.7	571.7	598.1	636.8	686.3
35°	491.5	490.6	489.4	494.8	503.0	511.4	522.1	538.8	568.5	604.7	656.5
37.5°	473.1	471.1	468.9	471.3	477.8	486.5	495.8	510.6	536.3	576.1	625.7
40°	459.5	457.9	456.6	455.7	461.6	469.8	476.9	491.0	515.1	552.8	601.7
42.5°	444.6	443.6	442.0	440.8	445.7	451.9	459.3	471.8	495.8	531.2	577.6
45°	420.5	419.7	418.9	418.0	421.0	426.7	432.5	441.6	462.4	496.9	538.8
47.5°	393.7	392.7	393.0	391.7	394.5	398.4	402.4	412.3	432.1	459.9	490.5
50°	374.5	374.1	374.1	374.1	374.9	379.5	383.2	390.7	408.9	436.7	458.7
52.5°	356.2	354.5	354.5	355.1	356.6	359.6	361.9	370.1	386.0	408.8	428.8
55°	327.6	324.3	323.4	324.3	325.6	328.0	330.5	337.2	350.9	367.9	379.5
57.5°	296.0	294.1	293.0	293.2	293.9	295.9	297.8	305.0	315.8	324.6	332.1
60°	273.7	274.6	270.8	271.6	271.6	273.3	276.2	280.7	289.9	296.1	303.6
62.5°	252.8	251.7	250.6	249.4	249.4	250.1	254.0	257.5	265.3	268.5	274.4
65°	220.2	220.2	217.7	218.6	219.0	216.1	218.2	222.3	227.3	228.5	233.9
67.5°	187.2	186.1	184.7	183.4	183.4	183.2	184.2	186.3	190.0	190.4	194.6
70°	164.6	163.8	163.4	162.2	160.5	162.6	161.3	163.4	165.5	165.9	168.3
72.5°	142.8	141.9	141.2	139.9	139.3	139.0	139.1	141.5	142.9	142.4	145.1
75°	111.5	110.7	109.9	107.8	107.8	106.5	107.0	108.7	110.4	109.1	111.5
77.5°	81.9	79.4	79.2	79.8	78.3	78.7	78.1	77.9	78.7	78.7	81.0
80°	63.1	60.1	61.0	60.5	60.1	59.7	58.9	59.3	59.7	60.1	61.4
82.5°	45.5	45.2	44.4	44.3	43.9	42.8	42.3	43.0	43.5	43.3	44.1
85°	23.2	21.9	22.8	22.4	22.8	22.4	21.2	21.2	21.9	21.5	22.4
87.5°	11.6	11.4	10.5	10.3	9.4	9.3	8.5	8.4	8.3	7.9	8.2
90°	22.9	22.1	19.4	16.8	14.1	11.5	9.1	7.1	5.0	2.9	1.0
92.5°	24.9	23.5	21.5	19.6	17.6	15.5	14.8	15.4	16.0	16.6	17.1
95°	29.9	28.5	26.3	24.0	21.8	19.6	22.6	31.0	39.4	47.8	56.2
97.5°	31.3	29.6	44.4	59.1	73.8	88.6	97.8	101.6	105.3	109.1	112.8
100°	32.0	30.3	62.3	94.2	126.1	158.0	171.9	167.8	163.7	159.6	155.5
102.5°	55.5	60.5	95.4	130.2	165.1	199.9	215.9	212.9	210.0	207.1	204.1
105°	165.3	201.5	220.0	238.4	256.7	275.2	283.3	281.0	278.8	276.6	274.3
107.5°	342.9	369.5	366.5	363.6	360.8	357.8	355.5	353.6	351.9	350.1	348.2
110°	408.4	415.1	412.8	410.6	408.4	406.1	404.2	402.5	400.8	399.3	397.6



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	461.6	461.4	459.2	457.0	454.7	452.5	450.6	449.2	447.7	446.2	444.7
115°	530.4	528.3	526.5	524.6	522.8	520.9	519.4	518.2	516.9	515.7	514.5
117.5°	594.7	593.1	592.2	591.2	590.3	589.3	588.1	586.6	585.0	583.5	582.0
120°	636.7	635.0	634.5	633.8	633.2	632.6	631.4	629.5	627.7	625.8	624.0
122.5°	678.2	677.0	676.2	675.5	674.7	673.9	672.8	671.2	669.7	668.2	666.7
125°	736.7	736.3	735.5	734.7	733.8	733.0	731.8	730.2	728.5	726.9	725.2
127.5°	794.4	793.7	792.7	791.8	790.8	789.8	788.5	786.9	785.2	783.5	782.0
130°	829.2	828.3	827.5	826.7	825.9	825.1	823.8	822.2	820.5	819.0	817.3
132.5°	862.3	861.5	860.8	860.2	859.5	858.8	857.7	856.0	854.4	852.8	851.1
135°	912.7	912.1	911.2	910.5	909.7	908.8	907.8	906.6	905.3	904.1	902.9
137.5°	957.0	956.1	955.6	955.2	954.7	954.3	953.3	951.7	950.1	948.6	947.1
140°	985.6	984.8	984.2	983.6	982.9	982.3	981.4	980.2	979.0	977.7	976.5
142.5°	1012.7	1012.0	1011.5	1010.8	1010.2	1009.6	1008.7	1007.4	1006.2	1005.0	1003.8
145°	1050.5	1050.1	1049.7	1049.3	1048.9	1048.5	1047.6	1046.2	1044.7	1043.3	1041.9
147.5°	1084.3	1083.8	1083.4	1083.0	1082.6	1082.2	1081.5	1080.5	1079.7	1078.7	1077.8
150°	1104.9	1104.5	1104.1	1103.6	1103.2	1102.8	1102.3	1101.7	1101.1	1100.4	1099.9
152.5°	1122.8	1122.1	1121.9	1121.7	1121.3	1121.1	1120.9	1120.5	1120.3	1120.0	1119.7
155°	1147.8	1146.8	1146.6	1146.4	1146.1	1146.0	1146.1	1146.4	1146.8	1147.3	1147.7
157.5°	1169.6	1168.3	1168.5	1168.7	1168.9	1169.1	1169.3	1169.3	1169.3	1169.3	1169.4
160°	1182.1	1180.8	1181.1	1181.2	1181.5	1181.6	1181.9	1182.1	1182.3	1182.5	1182.6
162.5°	1193.3	1191.8	1192.1	1192.3	1192.5	1192.7	1193.0	1193.6	1194.1	1194.7	1195.2
165°	1208.2	1206.6	1206.8	1207.0	1207.2	1207.4	1207.8	1208.5	1209.0	1209.7	1210.3
167.5°	1220.0	1218.4	1218.4	1218.4	1218.4	1218.4	1218.8	1219.6	1220.4	1221.2	1222.1
170°	1226.6	1225.0	1225.0	1225.0	1225.0	1225.0	1225.4	1226.2	1227.1	1227.9	1228.7
172.5°	1231.1	1229.4	1229.2	1229.1	1228.9	1228.8	1229.2	1230.2	1231.1	1232.2	1233.1
175°	1236.6	1235.1	1234.9	1234.7	1234.5	1234.3	1234.7	1235.7	1236.8	1237.8	1238.8
177.5°	1238.7	1237.3	1237.2	1237.0	1236.8	1236.7	1237.0	1237.9	1238.7	1239.4	1240.3
180°	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0
2.5°	861.3	862.9	868.6	872.6	877.2	879.9	882.5	884.6	887.2	887.8	897.5
5°	865.1	873.4	888.0	898.7	912.0	926.5	936.4	941.0	953.0	963.0	982.9
7.5°	864.0	881.7	903.6	926.3	950.7	973.3	992.8	1016.1	1032.6	1057.4	1081.8
10°	863.0	886.7	914.9	943.9	977.9	1009.4	1037.6	1069.1	1095.3	1129.7	1159.1
12.5°	860.1	888.7	927.8	962.2	1003.5	1046.9	1088.7	1129.2	1152.3	1209.7	1236.8
15°	852.7	886.7	935.6	987.9	1044.7	1096.1	1149.2	1191.5	1259.9	1310.1	1342.0
17.5°	838.6	886.2	944.2	1007.3	1076.3	1144.1	1204.3	1268.4	1341.0	1401.8	1466.5
20°	831.9	884.2	948.9	1018.6	1090.3	1167.0	1235.5	1312.6	1391.8	1451.5	1534.5
22.5°	819.7	878.8	948.6	1026.2	1102.9	1182.3	1262.3	1340.1	1431.6	1513.9	1592.8
25°	799.5	865.9	938.1	1024.8	1114.8	1194.4	1290.2	1393.4	1488.8	1594.6	1673.4
27.5°	778.5	849.4	921.7	1002.3	1099.1	1193.6	1314.1	1430.8	1547.4	1638.7	1697.0
30°	762.2	831.1	905.8	987.1	1082.8	1195.2	1330.0	1457.3	1571.0	1649.3	1682.1
32.5°	744.7	814.5	880.5	965.8	1067.9	1194.2	1340.0	1472.9	1572.3	1624.4	1618.1
35°	717.1	775.5	839.8	921.9	1042.2	1186.9	1345.8	1474.3	1535.3	1524.1	1439.5
37.5°	677.2	726.4	789.7	879.6	1012.3	1171.6	1334.2	1430.6	1426.6	1335.5	1212.9
40°	652.4	694.3	755.2	849.8	989.1	1161.7	1315.9	1378.6	1325.5	1198.1	1051.3
42.5°	619.9	658.4	719.4	816.6	963.5	1141.4	1281.0	1299.3	1195.4	1048.8	914.3
45°	569.4	603.4	666.5	766.8	925.3	1097.3	1196.0	1151.7	1011.9	860.5	758.1
47.5°	515.2	550.6	611.2	714.3	869.8	1031.1	1078.1	983.7	840.2	717.5	623.4
50°	481.1	515.1	574.4	678.5	832.3	976.7	996.2	874.3	742.4	634.5	557.4
52.5°	446.6	478.6	536.9	641.4	788.5	913.6	901.6	777.4	656.1	564.2	503.7
55°	395.2	425.5	481.1	578.9	712.9	812.0	768.5	649.9	549.5	478.2	432.1
57.5°	349.3	378.3	426.3	514.7	631.1	699.3	643.8	543.8	464.1	409.2	374.9
60°	318.1	343.8	389.4	471.5	572.7	624.6	569.8	481.5	414.3	370.3	339.7
62.5°	288.6	310.9	353.2	427.8	515.6	559.2	503.8	429.0	371.9	332.9	306.8
65°	243.8	264.2	301.5	359.6	431.7	460.7	413.0	352.5	308.2	279.1	261.7
67.5°	203.0	220.3	252.5	298.3	351.3	372.5	336.2	289.3	255.9	232.6	218.7
70°	175.9	190.8	216.1	255.5	303.6	319.7	285.7	247.2	222.7	204.1	191.2
72.5°	153.0	163.9	186.9	217.3	257.5	270.3	246.6	212.7	189.9	175.9	165.6
75°	116.5	125.6	140.6	165.1	192.8	200.3	182.4	161.3	146.0	136.0	128.2
77.5°	84.1	90.7	101.6	116.6	135.9	142.6	131.3	117.2	106.0	99.3	94.9
80°	63.5	68.8	78.0	90.4	102.0	105.8	99.1	88.3	80.5	76.8	73.0
82.5°	46.9	49.9	55.4	63.8	71.9	76.2	70.6	64.1	59.9	56.5	55.1
85°	23.6	25.3	27.8	31.1	36.0	37.7	35.6	34.0	31.5	29.5	29.5
87.5°	9.2	9.7	11.0	12.1	13.9	15.4	15.6	15.5	15.7	15.5	15.4
90°	2.9	5.0	7.1	9.1	11.5	14.1	16.8	19.4	22.1	22.9	23.7
92.5°	16.6	16.0	15.4	14.8	15.5	17.6	19.6	21.5	23.5	24.9	26.1
95°	47.8	39.4	31.0	22.6	19.6	21.8	24.0	26.3	28.5	29.9	31.4
97.5°	109.1	105.3	101.6	97.8	88.6	73.8	59.1	44.4	29.6	31.3	32.9
100°	159.6	163.7	167.8	171.9	158.0	126.1	94.2	62.3	30.3	32.0	33.7
102.5°	207.1	210.0	212.9	215.9	199.9	165.1	130.2	95.4	60.5	55.5	50.4
105°	276.6	278.8	281.0	283.3	275.2	256.7	238.4	220.0	201.5	165.3	129.1
107.5°	350.1	351.9	353.6	355.5	357.8	360.8	363.6	366.5	369.5	342.9	316.3
110°	399.3	400.8	402.5	404.2	406.1	408.4	410.6	412.8	415.1	408.4	401.6





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	446.2	447.7	449.2	450.6	452.5	454.7	457.0	459.2	461.4	461.6	461.7
115°	515.7	516.9	518.2	519.4	520.9	522.8	524.6	526.5	528.3	530.4	532.3
117.5°	583.5	585.0	586.6	588.1	589.3	590.3	591.2	592.2	593.1	594.7	596.4
120°	625.8	627.7	629.5	631.4	632.6	633.2	633.8	634.5	635.0	636.7	638.3
122.5°	668.2	669.7	671.2	672.8	673.9	674.7	675.5	676.2	677.0	678.2	679.3
125°	726.9	728.5	730.2	731.8	733.0	733.8	734.7	735.5	736.3	736.7	737.1
127.5°	783.5	785.2	786.9	788.5	789.8	790.8	791.8	792.7	793.7	794.4	795.0
130°	819.0	820.5	822.2	823.8	825.1	825.9	826.7	827.5	828.3	829.2	830.0
132.5°	852.8	854.4	856.0	857.7	858.8	859.5	860.2	860.8	861.5	862.3	863.1
135°	904.1	905.3	906.6	907.8	908.8	909.7	910.5	911.2	912.1	912.7	913.3
137.5°	948.6	950.1	951.7	953.3	954.3	954.7	955.2	955.6	956.1	957.0	958.1
140°	977.7	979.0	980.2	981.4	982.3	982.9	983.6	984.2	984.8	985.6	986.4
142.5°	1005.0	1006.2	1007.4	1008.7	1009.6	1010.2	1010.8	1011.5	1012.0	1012.7	1013.4
145°	1043.3	1044.7	1046.2	1047.6	1048.5	1048.9	1049.3	1049.7	1050.1	1050.5	1051.0
147.5°	1078.7	1079.7	1080.5	1081.5	1082.2	1082.6	1083.0	1083.4	1083.8	1084.3	1084.7
150°	1100.4	1101.1	1101.7	1102.3	1102.8	1103.2	1103.6	1104.1	1104.5	1104.9	1105.3
152.5°	1120.0	1120.3	1120.5	1120.9	1121.1	1121.3	1121.7	1121.9	1122.1	1122.8	1123.6
155°	1147.3	1146.8	1146.4	1146.1	1146.0	1146.1	1146.4	1146.6	1146.8	1147.8	1148.8
157.5°	1169.3	1169.3	1169.3	1169.3	1169.1	1168.9	1168.7	1168.5	1168.3	1169.6	1170.8
160°	1182.5	1182.3	1182.1	1181.9	1181.6	1181.5	1181.2	1181.1	1180.8	1182.1	1183.3
162.5°	1194.7	1194.1	1193.6	1193.0	1192.7	1192.5	1192.3	1192.1	1191.8	1193.3	1194.7
165°	1209.7	1209.0	1208.5	1207.8	1207.4	1207.2	1207.0	1206.8	1206.6	1208.2	1209.9
167.5°	1221.2	1220.4	1219.6	1218.8	1218.4	1218.4	1218.4	1218.4	1218.4	1220.0	1221.6
170°	1227.9	1227.1	1226.2	1225.4	1225.0	1225.0	1225.0	1225.0	1225.0	1226.6	1228.3
172.5°	1232.2	1231.1	1230.2	1229.2	1228.8	1228.9	1229.1	1229.2	1229.4	1231.1	1232.7
175°	1237.8	1236.8	1235.7	1234.7	1234.3	1234.5	1234.7	1234.9	1235.1	1236.6	1238.0
177.5°	1239.4	1238.7	1237.9	1237.0	1236.7	1236.8	1237.0	1237.2	1237.3	1238.7	1239.9
180°	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	856.0	856.0	856.0	856.0	856.0	856.0	856.0
2.5°	900.8	901.1	904.8	907.4	906.1	907.8	908.4
5°	984.1	999.1	1006.9	1012.7	1013.2	1013.6	1016.9
7.5°	1102.3	1118.3	1130.0	1147.8	1153.1	1159.1	1157.4
10°	1188.6	1212.2	1232.6	1243.3	1255.0	1271.9	1258.3
12.5°	1269.2	1311.1	1342.0	1358.8	1369.8	1373.2	1366.4
15°	1402.2	1456.9	1486.4	1485.5	1522.9	1539.1	1513.7
17.5°	1524.1	1574.6	1615.1	1635.9	1666.9	1673.8	1670.6
20°	1598.8	1653.9	1685.4	1721.1	1737.3	1751.8	1754.3
22.5°	1663.1	1712.6	1746.4	1776.2	1789.7	1796.6	1800.7
25°	1729.4	1768.4	1788.7	1799.0	1802.8	1802.0	1796.6
27.5°	1724.8	1727.8	1705.4	1683.5	1663.8	1641.6	1634.0
30°	1680.1	1645.2	1583.0	1547.8	1495.9	1454.8	1471.4
32.5°	1562.3	1492.9	1423.1	1346.0	1282.2	1264.1	1245.8
35°	1333.3	1211.4	1140.1	1057.1	1024.0	990.8	968.0
37.5°	1078.7	984.4	899.8	845.5	812.3	791.3	780.0
40°	932.7	847.7	778.0	734.0	708.8	685.2	681.8
42.5°	816.3	737.2	684.8	649.7	625.5	615.4	608.2
45°	668.5	613.4	578.1	553.3	537.1	530.8	522.5
47.5°	565.9	526.9	500.4	483.5	471.3	466.7	466.0
50°	508.4	476.1	456.6	443.3	433.8	432.1	425.5
52.5°	465.3	437.3	422.1	410.5	403.6	398.9	397.0
55°	403.9	385.2	371.6	365.0	359.6	355.0	355.0
57.5°	353.4	337.9	328.8	323.1	321.5	318.2	316.2
60°	322.3	309.0	301.9	296.9	293.7	294.1	290.3
62.5°	291.7	283.1	276.4	271.4	267.4	267.5	267.8
65°	248.4	241.8	236.8	235.1	232.7	229.7	230.6
67.5°	210.5	204.3	200.4	197.6	196.8	195.2	197.6
70°	183.3	178.7	175.9	173.3	172.5	172.9	175.0
72.5°	158.4	155.2	153.3	152.1	150.3	150.4	151.8
75°	124.5	121.9	120.3	119.0	118.6	118.6	118.6
77.5°	91.4	90.9	90.1	88.2	88.3	88.8	88.9
80°	72.2	70.9	70.5	69.7	68.4	67.6	69.7
82.5°	53.9	52.7	52.3	52.1	50.1	50.0	51.7
85°	29.0	27.8	28.2	27.8	27.8	27.4	27.4
87.5°	15.2	15.1	14.8	15.2	15.0	14.7	15.4
90°	24.6	25.3	26.0	26.4	26.8	27.2	27.6
92.5°	27.5	28.8	29.5	29.8	30.1	30.3	30.6
95°	32.8	34.2	34.9	34.9	34.9	34.9	34.9
97.5°	34.5	36.2	37.1	37.3	37.5	37.7	37.9
100°	35.3	36.9	37.9	38.0	38.3	38.4	38.7
102.5°	45.3	40.2	37.9	38.3	38.7	39.1	39.4
105°	92.9	56.7	38.9	39.3	39.7	40.1	40.5
107.5°	289.8	263.2	236.3	209.1	181.7	154.5	127.2
110°	394.8	388.1	370.1	340.9	311.6	282.3	253.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	461.8	462.0	458.9	452.7	446.6	440.4	434.2
115°	534.4	536.5	537.9	538.7	539.6	540.3	541.1
117.5°	598.0	599.6	600.6	600.7	600.9	601.0	601.2
120°	639.9	641.6	642.4	642.4	642.4	642.4	642.4
122.5°	680.5	681.6	682.2	682.4	682.5	682.8	682.9
125°	737.5	737.9	738.3	738.7	739.2	739.6	740.0
127.5°	795.7	796.3	796.5	796.1	795.7	795.3	794.8
130°	830.8	831.6	831.8	831.4	831.0	830.6	830.2
132.5°	864.0	864.7	864.8	864.3	863.7	863.2	862.5
135°	913.9	914.6	914.6	913.9	913.3	912.7	912.1
137.5°	959.0	960.0	960.3	959.9	959.5	959.1	958.6
140°	987.2	988.1	988.2	987.9	987.5	987.1	986.7
142.5°	1014.0	1014.6	1014.7	1014.2	1013.5	1013.0	1012.4
145°	1051.4	1051.8	1051.9	1051.9	1051.9	1051.9	1051.9
147.5°	1085.1	1085.4	1085.2	1084.3	1083.3	1082.4	1081.4
150°	1105.6	1106.0	1106.0	1105.3	1104.8	1104.1	1103.5
152.5°	1124.3	1125.1	1125.0	1124.0	1123.1	1122.1	1121.2
155°	1149.9	1150.9	1150.7	1149.5	1148.3	1147.1	1145.9
157.5°	1172.0	1173.2	1173.1	1171.5	1169.8	1168.2	1166.6
160°	1184.5	1185.7	1185.7	1184.2	1182.8	1181.3	1179.9
162.5°	1196.0	1197.5	1197.5	1196.2	1194.9	1193.7	1192.4
165°	1211.5	1213.1	1213.2	1211.8	1210.4	1208.9	1207.5
167.5°	1223.3	1225.0	1225.0	1223.3	1221.6	1220.0	1218.4
170°	1229.9	1231.5	1231.5	1229.9	1228.3	1226.6	1225.0
172.5°	1234.3	1236.0	1235.9	1234.1	1232.3	1230.5	1228.7
175°	1239.4	1240.9	1240.7	1239.1	1237.5	1235.9	1234.2
177.5°	1241.3	1242.5	1242.4	1240.8	1239.1	1237.5	1235.9
180°	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8

(END OF REPORT)