

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: P332145-940

Luminaire Tested: **S123DIW-S560D1535U940-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332145-940
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: S123DIW-S560D1535U940-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1535 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6875.2 lumens
Efficiency: N/A
Efficacy: 113.5 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: Semi-Indirect

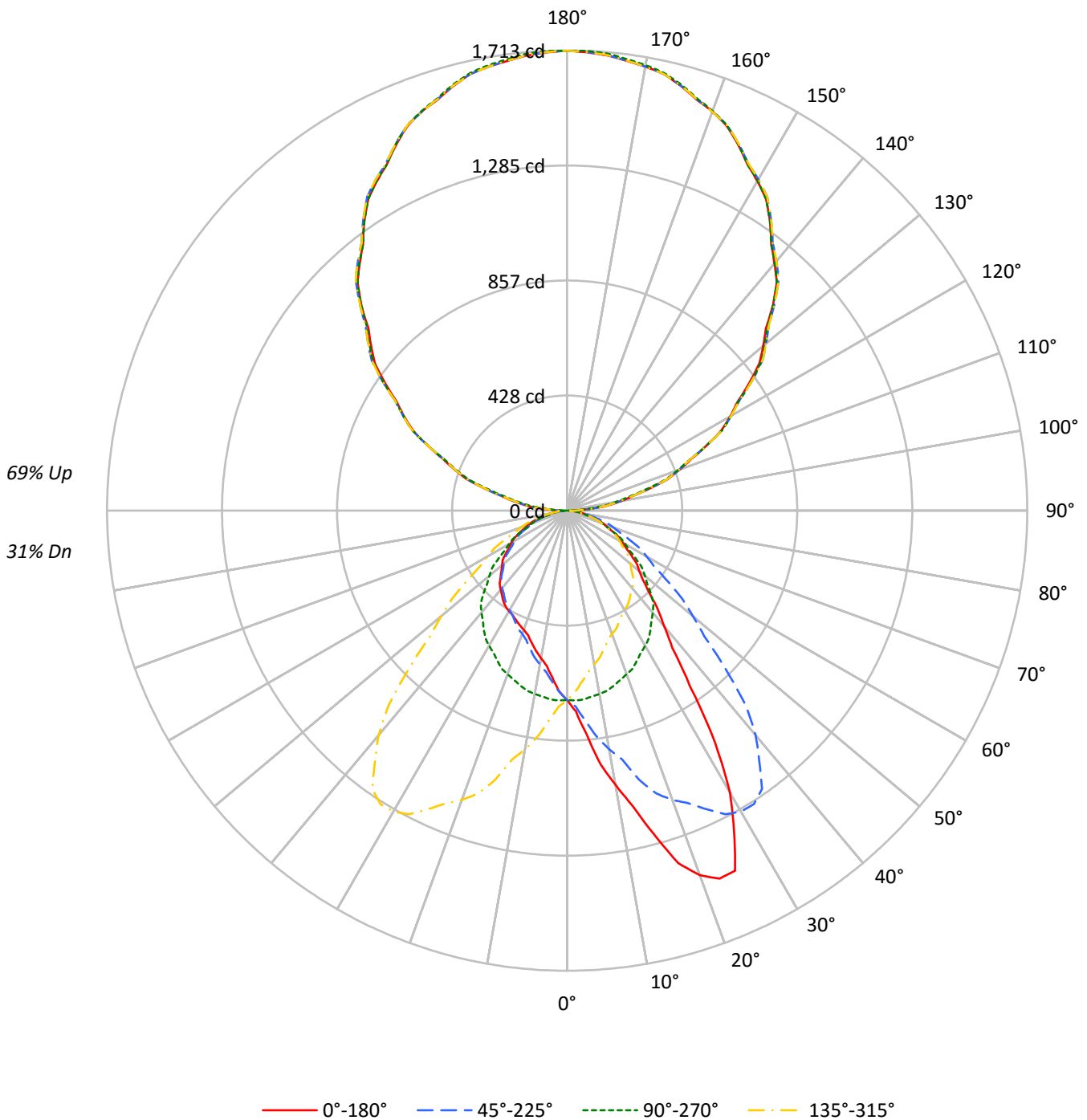
Input Watts (W): 60.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot



69% Up

31% Dn



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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	0	
RCR																						
0	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	39	39	39	31	
1	94	90	86	82	84	81	78	75	64	62	60	49	47	46	34	34	33	34	34	33	26	
2	85	78	72	68	77	71	66	61	56	53	50	43	41	39	30	29	28	30	29	28	22	
3	78	69	62	56	70	62	56	51	50	45	42	38	35	33	27	25	24	27	25	24	19	
4	71	61	53	48	64	55	49	44	44	39	36	34	31	28	24	22	21	24	22	21	17	
5	65	54	46	41	59	49	42	37	39	35	31	30	27	24	22	20	18	22	20	18	14	
6	60	49	41	35	54	44	37	32	35	30	27	27	24	21	20	18	16	20	18	16	13	
7	56	44	36	31	50	40	33	28	32	27	23	25	21	19	18	16	14	18	16	14	11	
8	51	40	32	27	46	36	29	25	29	24	21	23	19	17	17	14	13	17	14	13	10	
9	48	36	29	24	43	33	26	22	27	22	18	21	17	15	15	13	11	15	13	11	9	
10	45	33	26	21	40	30	24	20	24	20	17	19	16	13	14	12	10	14	12	10	8	

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7587	7587	7587	7587
5°	9048	7621	6753	7621
10°	11326	7582	6099	7582
15°	13891	7520	5678	7520
20°	16549	7425	5407	7425
25°	17570	7310	5346	7310
30°	15060	7225	5374	7225
35°	10474	7104	5430	7104
40°	7888	6962	5413	6962
45°	6550	6753	5345	6753
50°	5868	6325	5297	6325
55°	5485	5864	5230	5864
60°	5147	5382	5175	5382
65°	4834	4905	5010	4905
70°	4535	4365	4771	4365
75°	4059	3818	4375	3818
80°	3552	3137	3769	3137
85°	2791	2285	2532	2285



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.4	1.0
10°-20°	222.7	3.2
20°-30°	373.7	5.4
30°-40°	423.1	6.2
40°-50°	379.5	5.5
50°-60°	306.2	4.5
60°-70°	213.4	3.1
70°-80°	112.2	1.6
80°-90°	32.5	0.5
90°-100°	111.5	1.6
100°-110°	333.8	4.9
110°-120°	567.7	8.3
120°-130°	746.7	10.9
130°-140°	839.3	12.2
140°-150°	825.0	12.0
150°-160°	694.5	10.1
160°-170°	462.3	6.7
170°-180°	161.9	2.4
0°-30°	665.8	9.7
0°-40°	1088.9	15.8
0°-60°	1774.6	25.8
0°-90°	2132.6	31.0
90°-120°	1013.0	14.7
90°-150°	3423.9	49.8
90°-180°	4743.0	69.0
0°-180°	6875.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	705	705	705	705	705	
5°	837	705	625	705	837	87
15°	1246	675	510	675	1246	360
25°	1479	616	450	616	1479	649
35°	797	541	413	541	797	518
45°	430	444	351	444	430	340
55°	292	312	279	312	292	262
65°	190	193	197	193	190	189
75°	98	92	105	92	98	105
85°	23	18	20	18	23	28
90°	40	1	40	1	40	21
95°	105	79	105	79	105	108
105°	320	303	320	303	320	340
115°	573	572	573	572	573	567
125°	827	836	827	836	827	739
135°	1084	1085	1084	1085	1084	833
145°	1316	1316	1316	1316	1316	822
155°	1505	1507	1505	1507	1505	693
165°	1636	1642	1636	1642	1636	462
175°	1701	1708	1701	1708	1701	162
180°	1712	1712	1712	1712	1712	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	748.1	747.5	746.2	747.3	745.0	742.1	741.8	739.0	731.1	730.6	728.4
5°	837.4	834.6	834.4	834.0	829.2	822.7	810.4	809.4	793.0	784.8	774.9
7.5°	953.1	954.6	949.6	945.2	930.6	921.0	907.8	890.9	870.8	850.3	836.7
10°	1036.2	1047.4	1033.4	1023.9	1015.0	998.3	978.8	954.6	930.3	902.0	880.5
12.5°	1125.2	1130.8	1128.0	1118.9	1105.2	1079.7	1045.2	1018.5	996.1	949.0	929.9
15°	1246.5	1267.4	1254.1	1223.3	1224.1	1199.8	1154.7	1105.2	1078.9	1037.5	981.1
17.5°	1375.8	1378.4	1372.7	1347.1	1330.0	1296.7	1255.1	1207.6	1154.3	1104.4	1044.6
20°	1444.7	1442.6	1430.7	1417.3	1387.9	1362.0	1316.5	1263.6	1195.3	1146.1	1080.9
22.5°	1482.9	1479.4	1473.8	1462.7	1438.2	1410.3	1369.6	1311.7	1246.7	1178.9	1103.6
25°	1479.4	1483.9	1484.6	1481.5	1473.0	1456.3	1424.2	1378.0	1313.1	1226.1	1147.5
27.5°	1345.6	1351.8	1370.1	1386.3	1404.4	1422.8	1420.4	1397.5	1349.5	1274.3	1178.2
30°	1211.7	1198.0	1231.9	1274.5	1303.6	1354.8	1383.5	1385.2	1358.3	1293.7	1200.1
32.5°	1025.9	1041.0	1055.9	1108.4	1171.9	1229.4	1286.5	1332.5	1337.7	1294.8	1212.9
35°	797.1	815.9	843.2	870.6	938.9	997.6	1098.0	1185.4	1255.1	1264.3	1214.1
37.5°	642.3	651.7	668.9	696.2	740.9	810.7	888.3	998.8	1099.7	1174.8	1178.1
40°	561.4	564.2	583.6	604.5	640.7	698.0	768.1	865.8	986.7	1091.5	1135.2
42.5°	500.8	506.8	515.1	535.1	563.9	607.1	672.2	753.0	863.7	984.4	1069.9
45°	430.3	437.1	442.3	455.6	476.1	505.1	550.5	624.3	708.6	833.3	948.4
47.5°	383.7	384.2	388.1	398.1	412.1	433.9	466.0	513.4	590.8	691.9	810.1
50°	350.4	355.9	357.2	365.1	376.0	392.1	418.7	459.0	522.5	611.4	720.0
52.5°	326.9	328.5	332.3	338.0	347.6	360.1	383.2	414.7	464.6	540.3	640.2
55°	292.3	292.3	296.1	300.5	306.0	317.3	332.6	355.9	393.8	452.5	535.2
57.5°	260.4	262.1	264.7	266.1	270.7	278.2	291.1	308.7	337.0	382.2	447.9
60°	239.1	242.1	241.8	244.5	248.6	254.4	265.4	279.7	305.0	341.2	396.5
62.5°	220.5	220.3	220.3	223.5	227.6	233.1	240.2	252.6	274.1	306.2	353.3
65°	189.8	189.2	191.6	193.7	195.0	199.1	204.6	215.5	229.9	253.8	290.3
67.5°	162.7	160.7	162.0	162.7	165.1	168.3	173.3	180.1	191.5	210.7	238.3
70°	144.1	142.4	142.0	142.8	144.8	147.2	151.0	157.5	168.0	183.4	203.6
72.5°	125.0	123.9	123.8	125.3	126.3	127.8	130.5	136.4	144.8	156.3	175.1
75°	97.6	97.6	97.6	98.0	99.1	100.4	102.5	105.5	112.0	120.2	132.9
77.5°	73.2	73.1	72.8	72.7	74.2	74.8	75.3	78.1	81.8	87.3	96.5
80°	57.3	55.6	56.4	57.3	58.1	58.4	59.4	60.1	63.2	66.3	72.8
82.5°	42.6	41.2	41.3	42.9	43.1	43.3	44.4	45.4	46.5	49.3	52.8
85°	22.6	22.6	22.9	22.9	23.2	22.9	23.9	24.3	24.3	25.9	28.0
87.5°	16.2	15.6	15.8	15.9	15.5	15.6	15.6	15.7	15.7	15.8	15.2
90°	40.3	39.8	39.1	38.5	38.0	37.1	35.8	34.7	33.4	32.3	28.4
92.5°	54.3	54.7	55.0	55.4	55.7	55.5	54.5	53.5	52.6	51.6	49.4
95°	104.9	104.9	104.9	104.9	104.9	104.2	103.1	101.9	100.7	99.5	97.1
97.5°	161.4	161.5	161.6	161.8	161.8	161.2	159.8	158.5	157.1	155.7	154.0
100°	204.4	203.8	203.2	202.6	202.0	201.3	200.4	199.5	198.6	197.7	196.2
102.5°	248.5	248.6	248.7	248.9	249.0	248.6	247.7	246.8	245.9	245.0	243.0
105°	320.0	319.4	318.9	318.3	317.6	317.4	317.4	317.4	317.4	317.4	314.7
107.5°	394.5	394.8	395.2	395.6	395.9	395.7	394.7	393.8	392.8	391.8	390.7
110°	445.1	445.7	446.3	446.8	447.5	447.2	445.9	444.8	443.6	442.4	441.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	498.8	499.0	499.1	499.3	499.4	498.6	497.2	495.8	494.4	492.9	492.8
115°	572.8	573.1	573.5	573.7	574.0	574.0	573.7	573.5	573.1	572.8	573.5
117.5°	647.8	648.7	649.5	650.3	651.2	651.7	651.8	651.8	651.8	651.9	652.6
120°	700.5	701.2	701.8	702.4	702.9	703.4	703.7	704.0	704.3	704.6	706.1
122.5°	751.1	752.0	752.8	753.7	754.5	755.3	756.1	756.8	757.6	758.4	759.2
125°	827.0	828.1	829.4	830.5	831.7	832.9	834.1	835.4	836.5	837.8	838.3
127.5°	902.5	903.9	905.3	906.7	908.0	909.5	911.2	912.9	914.5	916.2	916.9
130°	952.0	954.1	956.2	958.3	960.4	962.1	963.2	964.4	965.6	966.8	967.7
132.5°	1003.6	1005.2	1006.9	1008.5	1010.1	1011.6	1013.1	1014.5	1015.9	1017.4	1018.0
135°	1083.8	1084.4	1084.9	1085.6	1086.2	1087.1	1088.2	1089.5	1090.7	1091.9	1092.2
137.5°	1154.5	1155.7	1156.8	1157.9	1159.0	1160.3	1161.5	1162.8	1164.0	1165.3	1164.5
140°	1200.8	1202.8	1205.0	1207.0	1209.2	1210.3	1210.7	1210.9	1211.2	1211.6	1211.2
142.5°	1248.1	1249.7	1251.3	1252.9	1254.5	1255.5	1255.8	1256.2	1256.4	1256.7	1256.2
145°	1316.4	1317.6	1318.8	1320.0	1321.2	1322.0	1322.2	1322.5	1322.9	1323.1	1322.2
147.5°	1377.2	1378.9	1380.8	1382.6	1384.4	1385.3	1385.3	1385.3	1385.3	1385.3	1384.4
150°	1415.9	1417.7	1419.5	1421.3	1423.1	1424.0	1424.0	1424.0	1424.0	1424.0	1423.3
152.5°	1453.6	1455.1	1456.7	1458.2	1459.8	1460.4	1459.8	1459.4	1458.9	1458.4	1458.0
155°	1504.7	1506.7	1508.9	1510.9	1513.1	1513.5	1512.3	1511.1	1509.9	1508.7	1508.4
157.5°	1551.2	1552.8	1554.5	1556.2	1557.9	1558.1	1556.8	1555.6	1554.3	1553.1	1552.8
160°	1581.3	1582.5	1583.7	1584.9	1586.1	1585.9	1584.5	1583.0	1581.4	1579.9	1579.9
162.5°	1603.9	1605.8	1607.8	1609.6	1611.6	1611.8	1610.3	1608.7	1607.3	1605.8	1605.5
165°	1636.5	1638.5	1640.7	1642.7	1644.8	1644.9	1643.2	1641.4	1639.6	1637.8	1637.8
167.5°	1664.1	1666.0	1667.9	1669.7	1671.5	1671.5	1669.7	1667.9	1666.0	1664.1	1663.9
170°	1678.1	1680.3	1682.3	1684.4	1686.5	1686.5	1684.4	1682.3	1680.3	1678.1	1678.1
172.5°	1688.9	1691.0	1693.1	1695.1	1697.3	1697.4	1695.5	1693.6	1691.8	1690.0	1690.0
175°	1701.0	1703.1	1705.1	1707.3	1709.3	1709.5	1707.7	1705.9	1704.1	1702.4	1702.4
177.5°	1707.4	1709.1	1710.7	1712.4	1714.1	1714.2	1712.8	1711.4	1709.9	1708.5	1708.5
180°	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	726.7	724.6	722.4	718.5	715.2	710.6	709.3	707.7	702.8	698.3	695.1
5°	771.2	762.9	751.0	740.0	731.2	719.3	712.4	705.3	695.0	685.8	678.2
7.5°	817.6	801.5	782.9	762.9	744.1	726.0	711.5	698.6	684.2	670.6	660.0
10°	854.5	831.3	805.3	777.3	753.4	730.1	710.7	693.7	675.2	659.2	645.8
12.5°	896.5	862.1	826.3	792.3	764.0	731.8	708.3	686.5	665.7	646.3	631.3
15°	946.4	902.7	860.3	813.5	770.4	730.1	702.1	674.8	650.6	630.8	611.6
17.5°	991.7	942.2	886.4	829.5	777.6	729.8	690.5	659.7	629.4	605.1	586.0
20°	1017.4	961.0	897.9	838.7	781.4	728.1	685.1	648.2	615.5	589.8	568.3
22.5°	1039.6	973.6	908.2	845.1	781.1	723.7	675.0	637.0	601.5	576.4	553.6
25°	1062.5	983.6	918.0	843.9	772.5	713.1	658.4	615.5	579.9	550.5	527.0
27.5°	1082.2	982.9	905.1	825.4	759.0	699.5	641.1	594.9	557.2	525.3	501.4
30°	1095.3	984.3	891.7	812.8	745.9	684.4	627.7	581.3	541.6	509.2	486.7
32.5°	1103.5	983.5	879.4	795.3	725.1	670.7	613.2	565.2	524.4	492.6	470.8
35°	1108.2	977.4	858.3	759.2	691.6	638.6	590.5	540.6	497.9	468.2	443.6
37.5°	1098.7	964.8	833.7	724.3	650.3	598.2	557.7	515.2	474.4	441.7	420.4
40°	1083.6	956.6	814.5	699.8	621.9	571.7	537.3	495.5	455.2	424.2	404.4
42.5°	1055.0	940.0	793.5	672.4	592.4	542.2	510.4	475.6	437.5	408.3	388.5
45°	985.0	903.7	762.0	631.5	548.8	497.0	469.0	443.6	409.1	380.8	363.7
47.5°	887.8	849.1	716.3	588.3	503.4	453.4	424.3	403.9	378.7	355.9	339.5
50°	820.4	804.3	685.5	558.7	473.0	424.2	396.2	377.7	359.6	336.7	321.7
52.5°	742.4	752.3	649.3	528.2	442.1	394.1	367.7	353.1	336.7	317.9	304.8
55°	632.8	668.7	587.1	476.8	396.2	350.4	325.5	312.5	302.9	288.9	277.7
57.5°	530.2	575.8	519.7	423.8	351.0	311.6	287.7	273.5	267.3	260.0	251.2
60°	469.2	514.3	471.6	388.3	320.7	283.1	262.0	250.0	243.9	238.7	231.2
62.5°	414.9	460.5	424.6	352.2	290.9	256.1	237.6	226.0	221.1	218.5	212.0
65°	340.2	379.4	355.5	296.1	248.3	217.6	200.8	192.6	188.2	187.2	183.1
67.5°	276.9	306.7	289.4	245.6	207.9	181.4	167.2	160.2	156.9	156.5	153.4
70°	235.3	263.3	250.0	210.4	177.9	157.1	144.8	138.7	136.6	136.3	134.6
72.5°	203.0	222.6	212.0	179.0	153.9	135.0	125.9	119.5	117.2	117.7	116.5
75°	150.3	165.0	158.8	135.9	115.7	103.4	95.9	91.8	89.8	90.9	89.4
77.5°	108.2	117.4	111.9	96.0	83.6	74.7	69.2	66.7	64.8	64.7	64.1
80°	81.6	87.1	84.0	74.5	64.2	56.7	52.3	50.6	49.5	49.2	48.9
82.5°	58.1	62.8	59.1	52.6	45.7	41.1	38.6	36.4	35.6	35.8	35.5
85°	29.3	31.1	29.7	25.6	22.9	20.9	19.4	18.5	17.7	18.1	17.4
87.5°	15.0	14.5	12.9	11.1	10.0	8.6	7.9	6.9	6.9	7.5	7.8
90°	24.5	20.6	16.8	13.3	10.3	7.3	4.4	1.3	4.4	7.3	10.3
92.5°	47.2	45.0	42.8	40.7	38.6	36.6	34.6	32.5	34.6	36.6	38.6
95°	94.7	92.3	90.0	87.7	85.6	83.6	81.4	79.4	81.4	83.6	85.6
97.5°	152.2	150.5	148.7	147.1	145.6	144.0	142.5	140.9	142.5	144.0	145.6
100°	194.7	193.1	191.7	190.0	188.2	186.5	184.7	182.9	184.7	186.5	188.2
102.5°	241.0	239.1	237.1	235.6	234.5	233.4	232.4	231.3	232.4	233.4	234.5
105°	311.9	309.2	306.6	305.0	304.3	303.7	303.2	302.6	303.2	303.7	304.3
107.5°	389.7	388.6	387.5	386.8	386.5	386.1	385.8	385.4	385.8	386.1	386.5
110°	441.2	440.6	440.0	439.4	438.8	438.2	437.7	437.0	437.7	438.2	438.8



TEST NUMBER: P332145-940

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	492.7	492.6	492.5	492.2	491.9	491.5	491.2	490.8	491.2	491.5	491.9
115°	574.0	574.6	575.2	575.1	574.2	573.3	572.4	571.5	572.4	573.3	574.2
117.5°	653.4	654.2	655.0	655.1	654.5	653.9	653.3	652.7	653.3	653.9	654.5
120°	707.6	709.1	710.6	710.4	708.6	706.9	705.1	703.3	705.1	706.9	708.6
122.5°	759.9	760.7	761.5	761.3	759.9	758.6	757.2	756.0	757.2	758.6	759.9
125°	838.9	839.5	840.1	840.0	839.1	838.2	837.2	836.3	837.2	838.2	839.1
127.5°	917.6	918.2	918.9	918.3	916.3	914.4	912.5	910.6	912.5	914.4	916.3
130°	968.6	969.5	970.4	969.6	967.2	964.8	962.5	960.1	962.5	964.8	967.2
132.5°	1018.7	1019.3	1020.0	1019.1	1016.7	1014.3	1011.9	1009.6	1011.9	1014.3	1016.7
135°	1092.4	1092.8	1093.1	1092.3	1090.5	1088.7	1086.9	1085.1	1086.9	1088.7	1090.5
137.5°	1163.7	1163.0	1162.2	1161.0	1159.6	1158.1	1156.5	1155.0	1156.5	1158.1	1159.6
140°	1210.9	1210.7	1210.3	1209.4	1207.9	1206.5	1205.0	1203.5	1205.0	1206.5	1207.9
142.5°	1255.6	1255.1	1254.5	1253.6	1252.1	1250.5	1249.0	1247.6	1249.0	1250.5	1252.1
145°	1321.3	1320.4	1319.6	1318.8	1318.2	1317.6	1317.1	1316.4	1317.1	1317.6	1318.2
147.5°	1383.6	1382.8	1381.9	1381.0	1379.9	1378.8	1377.7	1376.6	1377.7	1378.8	1379.9
150°	1422.8	1422.2	1421.6	1421.0	1420.4	1419.8	1419.2	1418.6	1419.2	1419.8	1420.4
152.5°	1457.7	1457.3	1457.0	1456.3	1455.5	1454.7	1453.8	1453.0	1453.8	1454.7	1455.5
155°	1508.1	1507.8	1507.5	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3
157.5°	1552.6	1552.4	1552.1	1552.2	1552.6	1552.9	1553.3	1553.6	1553.3	1552.9	1552.6
160°	1579.9	1579.9	1579.9	1580.3	1580.8	1581.4	1582.1	1582.7	1582.1	1581.4	1580.8
162.5°	1605.3	1605.1	1604.8	1605.2	1606.0	1606.8	1607.7	1608.5	1607.7	1606.8	1606.0
165°	1637.8	1637.8	1637.8	1638.3	1639.1	1640.0	1640.9	1641.8	1640.9	1640.0	1639.1
167.5°	1663.7	1663.4	1663.2	1663.7	1664.8	1666.1	1667.2	1668.5	1667.2	1666.1	1664.8
170°	1678.1	1678.1	1678.1	1678.7	1679.9	1681.1	1682.3	1683.5	1682.3	1681.1	1679.9
172.5°	1690.0	1690.0	1690.0	1690.6	1691.8	1692.9	1694.2	1695.3	1694.2	1692.9	1691.8
175°	1702.4	1702.4	1702.4	1702.9	1704.1	1705.3	1706.6	1707.7	1706.6	1705.3	1704.1
177.5°	1708.5	1708.5	1708.5	1709.0	1709.9	1710.9	1711.9	1712.8	1711.9	1710.9	1709.9
180°	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	693.1	691.3	688.5	684.4	681.1	675.9	675.9	676.7	676.7	676.5	675.9
5°	672.1	667.0	660.8	653.7	646.1	638.6	637.3	634.5	632.5	631.2	629.5
7.5°	649.9	640.9	631.9	621.9	612.7	605.1	599.9	595.5	592.6	589.7	587.5
10°	634.9	623.6	613.1	602.4	590.8	581.6	575.8	571.7	568.6	565.9	564.5
12.5°	617.2	604.2	592.5	582.5	569.8	560.3	554.7	552.9	549.2	543.5	540.5
15°	591.2	579.3	565.3	549.8	543.7	532.1	525.6	522.5	520.5	516.0	514.7
17.5°	569.0	553.3	537.6	526.1	514.7	505.3	501.7	497.8	495.2	491.5	490.4
20°	551.3	537.3	522.9	510.6	498.6	488.4	485.3	482.6	479.8	478.1	476.8
22.5°	533.2	519.2	507.3	495.8	483.0	476.4	473.0	470.0	468.1	466.9	465.6
25°	507.8	495.5	482.2	472.0	461.7	457.3	455.2	453.5	452.2	450.5	450.1
27.5°	485.2	471.8	461.0	451.4	444.1	440.3	438.4	437.6	437.8	438.5	438.8
30°	468.2	455.9	447.0	438.8	432.0	428.6	428.3	428.3	429.6	430.0	430.7
32.5°	452.6	442.6	433.6	425.7	420.5	418.2	419.5	419.5	420.6	421.5	422.8
35°	430.0	421.1	414.3	407.4	403.0	404.0	404.7	405.4	407.1	409.1	410.5
37.5°	408.3	400.6	393.5	388.2	386.1	388.0	389.6	391.0	393.1	394.6	395.9
40°	392.7	386.9	380.1	375.3	376.0	377.0	378.4	380.1	381.8	382.8	384.2
42.5°	378.3	372.2	367.0	363.0	364.0	365.3	366.1	367.0	369.0	370.9	371.7
45°	356.2	351.4	346.6	344.3	344.9	345.6	346.3	347.3	349.0	350.4	350.7
47.5°	331.4	328.1	324.9	322.5	323.6	323.3	324.2	326.5	327.0	327.8	329.7
50°	315.6	312.5	308.7	308.1	308.1	308.1	308.4	311.1	311.1	312.5	313.9
52.5°	298.1	296.1	293.7	292.5	291.9	291.9	293.4	294.7	295.2	297.2	298.5
55°	272.2	270.1	268.1	267.1	266.4	267.1	269.8	270.5	272.2	273.2	274.2
57.5°	245.2	243.6	242.0	241.5	241.3	242.2	243.7	245.8	246.2	249.3	250.8
60°	227.5	225.1	223.7	223.7	223.0	226.0	225.4	228.8	229.5	231.6	234.0
62.5°	209.1	205.9	205.4	205.4	206.3	207.2	208.2	209.7	211.5	214.1	215.9
65°	179.7	177.9	180.3	179.9	179.3	181.4	181.4	183.1	185.1	187.5	191.3
67.5°	151.7	150.8	151.1	151.1	152.0	153.2	154.2	155.7	158.1	160.7	163.1
70°	132.9	133.8	132.2	133.6	134.6	134.9	135.5	137.6	140.4	142.0	144.8
72.5°	114.6	114.5	114.7	115.2	116.3	116.9	117.5	119.8	122.9	124.3	126.5
75°	88.1	87.7	88.8	88.8	90.5	91.2	91.8	92.9	95.6	97.6	99.4
77.5°	64.4	64.7	64.6	65.7	65.3	65.4	67.5	68.5	68.8	72.9	73.7
80°	48.5	49.2	49.5	49.8	50.2	49.5	51.9	53.0	53.0	55.3	57.1
82.5°	34.9	35.2	36.1	36.5	36.6	37.2	37.5	38.2	39.0	40.0	42.3
85°	17.4	18.5	18.8	18.5	18.8	18.1	19.1	19.4	19.8	19.8	19.8
87.5°	8.1	9.1	9.6	10.6	11.1	12.2	12.4	12.1	12.4	13.5	12.5
90°	13.3	16.8	20.6	24.5	28.4	32.3	33.4	34.7	35.8	37.1	38.0
92.5°	40.7	42.8	45.0	47.2	49.4	51.6	52.6	53.5	54.5	55.5	55.7
95°	87.7	90.0	92.3	94.7	97.1	99.5	100.7	101.9	103.1	104.2	104.9
97.5°	147.1	148.7	150.5	152.2	154.0	155.7	157.1	158.5	159.8	161.2	161.8
100°	190.0	191.7	193.1	194.7	196.2	197.7	198.6	199.5	200.4	201.3	202.0
102.5°	235.6	237.1	239.1	241.0	243.0	245.0	245.9	246.8	247.7	248.6	249.0
105°	305.0	306.6	309.2	311.9	314.7	317.4	317.4	317.4	317.4	317.4	317.6
107.5°	386.8	387.5	388.6	389.7	390.7	391.8	392.8	393.8	394.7	395.7	395.9
110°	439.4	440.0	440.6	441.2	441.8	442.4	443.6	444.8	445.9	447.2	447.5



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	492.2	492.5	492.6	492.7	492.8	492.9	494.4	495.8	497.2	498.6	499.4
115°	575.1	575.2	574.6	574.0	573.5	572.8	573.1	573.5	573.7	574.0	574.0
117.5°	655.1	655.0	654.2	653.4	652.6	651.9	651.8	651.8	651.8	651.7	651.2
120°	710.4	710.6	709.1	707.6	706.1	704.6	704.3	704.0	703.7	703.4	702.9
122.5°	761.3	761.5	760.7	759.9	759.2	758.4	757.6	756.8	756.1	755.3	754.5
125°	840.0	840.1	839.5	838.9	838.3	837.8	836.5	835.4	834.1	832.9	831.7
127.5°	918.3	918.9	918.2	917.6	916.9	916.2	914.5	912.9	911.2	909.5	908.0
130°	969.6	970.4	969.5	968.6	967.7	966.8	965.6	964.4	963.2	962.1	960.4
132.5°	1019.1	1020.0	1019.3	1018.7	1018.0	1017.4	1015.9	1014.5	1013.1	1011.6	1010.1
135°	1092.3	1093.1	1092.8	1092.4	1092.2	1091.9	1090.7	1089.5	1088.2	1087.1	1086.2
137.5°	1161.0	1162.2	1163.0	1163.7	1164.5	1165.3	1164.0	1162.8	1161.5	1160.3	1159.0
140°	1209.4	1210.3	1210.7	1210.9	1211.2	1211.6	1211.2	1210.9	1210.7	1210.3	1209.2
142.5°	1253.6	1254.5	1255.1	1255.6	1256.2	1256.7	1256.4	1256.2	1255.8	1255.5	1254.5
145°	1318.8	1319.6	1320.4	1321.3	1322.2	1323.1	1322.9	1322.5	1322.2	1322.0	1321.2
147.5°	1381.0	1381.9	1382.8	1383.6	1384.4	1385.3	1385.3	1385.3	1385.3	1385.3	1384.4
150°	1421.0	1421.6	1422.2	1422.8	1423.3	1424.0	1424.0	1424.0	1424.0	1424.0	1423.1
152.5°	1456.3	1457.0	1457.3	1457.7	1458.0	1458.4	1458.9	1459.4	1459.8	1460.4	1459.8
155°	1507.3	1507.5	1507.8	1508.1	1508.4	1508.7	1509.9	1511.1	1512.3	1513.5	1513.1
157.5°	1552.2	1552.1	1552.4	1552.6	1552.8	1553.1	1554.3	1555.6	1556.8	1558.1	1557.9
160°	1580.3	1579.9	1579.9	1579.9	1579.9	1579.9	1581.4	1583.0	1584.5	1585.9	1586.1
162.5°	1605.2	1604.8	1605.1	1605.3	1605.5	1605.8	1607.3	1608.7	1610.3	1611.8	1611.6
165°	1638.3	1637.8	1637.8	1637.8	1637.8	1637.8	1639.6	1641.4	1643.2	1644.9	1644.8
167.5°	1663.7	1663.2	1663.4	1663.7	1663.9	1664.1	1666.0	1667.9	1669.7	1671.5	1671.5
170°	1678.7	1678.1	1678.1	1678.1	1678.1	1678.1	1680.3	1682.3	1684.4	1686.5	1686.5
172.5°	1690.6	1690.0	1690.0	1690.0	1690.0	1690.0	1691.8	1693.6	1695.5	1697.4	1697.3
175°	1702.9	1702.4	1702.4	1702.4	1702.4	1702.4	1704.1	1705.9	1707.7	1709.5	1709.3
177.5°	1709.0	1708.5	1708.5	1708.5	1708.5	1708.5	1709.9	1711.4	1712.8	1714.2	1714.1
180°	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	674.0	673.8	675.6	674.3	675.6	673.8	674.0	675.9	676.5	676.7	676.7
5°	627.4	628.4	625.0	625.0	625.0	628.4	627.4	629.5	631.2	632.5	634.5
7.5°	585.9	584.3	584.5	582.6	584.5	584.3	585.9	587.5	589.7	592.6	595.5
10°	560.4	558.4	557.7	558.0	557.7	558.4	560.4	564.5	565.9	568.6	571.7
12.5°	539.4	539.0	534.5	534.6	534.5	539.0	539.4	540.5	543.5	549.2	552.9
15°	514.7	508.2	507.5	509.5	507.5	508.2	514.7	514.7	516.0	520.5	522.5
17.5°	489.9	486.4	486.7	485.6	486.7	486.4	489.9	490.4	491.5	495.2	497.8
20°	476.8	474.7	474.4	472.0	474.4	474.7	476.8	476.8	478.1	479.8	482.6
22.5°	464.8	464.0	464.2	461.6	464.2	464.0	464.8	465.6	466.9	468.1	470.0
25°	449.8	451.5	450.1	450.1	450.1	451.5	449.8	450.1	450.5	452.2	453.5
27.5°	439.7	439.6	438.9	438.9	438.9	439.6	439.7	438.8	438.5	437.8	437.6
30°	432.0	431.7	432.4	432.4	432.4	431.7	432.0	430.7	430.0	429.6	428.3
32.5°	424.4	424.8	425.0	425.3	425.0	424.8	424.4	422.8	421.5	420.6	419.5
35°	412.6	412.9	413.9	413.2	413.9	412.9	412.6	410.5	409.1	407.1	405.4
37.5°	396.5	398.1	397.8	398.3	397.8	398.1	396.5	395.9	394.6	393.1	391.0
40°	384.6	385.6	385.2	385.2	385.2	385.6	384.6	384.2	382.8	381.8	380.1
42.5°	372.3	373.0	372.1	371.6	372.1	373.0	372.3	371.7	370.9	369.0	367.0
45°	352.1	351.4	352.5	351.1	352.5	351.4	352.1	350.7	350.4	349.0	347.3
47.5°	329.6	330.3	330.6	331.5	330.6	330.3	329.6	329.7	327.8	327.0	326.5
50°	314.5	316.6	316.6	316.3	316.6	316.6	314.5	313.9	312.5	311.1	311.1
52.5°	299.8	300.8	302.1	302.0	302.1	300.8	299.8	298.5	297.2	295.2	294.7
55°	277.0	277.7	278.3	278.7	278.3	277.7	277.0	274.2	273.2	272.2	270.5
57.5°	253.3	253.1	254.7	255.2	254.7	253.1	253.3	250.8	249.3	246.2	245.8
60°	236.7	236.7	239.4	240.4	239.4	236.7	236.7	234.0	231.6	229.5	228.8
62.5°	218.9	220.0	222.7	221.3	222.7	220.0	218.9	215.9	214.1	211.5	209.7
65°	193.0	195.7	195.4	196.7	195.4	195.7	193.0	191.3	187.5	185.1	183.1
67.5°	165.9	167.6	170.0	170.2	170.0	167.6	165.9	163.1	160.7	158.1	155.7
70°	147.6	149.3	150.6	151.6	150.6	149.3	147.6	144.8	142.0	140.4	137.6
72.5°	129.7	130.6	133.9	132.5	133.9	130.6	129.7	126.5	124.3	122.9	119.8
75°	101.7	104.2	106.2	105.2	106.2	104.2	101.7	99.4	97.6	95.6	92.9
77.5°	75.3	77.7	78.6	77.8	78.6	77.7	75.3	73.7	72.9	68.8	68.5
80°	59.4	59.1	61.2	60.8	61.2	59.1	59.4	57.1	55.3	53.0	53.0
82.5°	43.6	43.2	44.2	44.4	44.2	43.2	43.6	42.3	40.0	39.0	38.2
85°	21.1	22.2	20.9	20.5	20.9	22.2	21.1	19.8	19.8	19.8	19.4
87.5°	12.7	12.8	12.6	12.5	12.6	12.8	12.7	12.5	13.5	12.4	12.1
90°	38.5	39.1	39.8	40.3	39.8	39.1	38.5	38.0	37.1	35.8	34.7
92.5°	55.4	55.0	54.7	54.3	54.7	55.0	55.4	55.7	55.5	54.5	53.5
95°	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.2	103.1	101.9
97.5°	161.8	161.6	161.5	161.4	161.5	161.6	161.8	161.8	161.2	159.8	158.5
100°	202.6	203.2	203.8	204.4	203.8	203.2	202.6	202.0	201.3	200.4	199.5
102.5°	248.9	248.7	248.6	248.5	248.6	248.7	248.9	249.0	248.6	247.7	246.8
105°	318.3	318.9	319.4	320.0	319.4	318.9	318.3	317.6	317.4	317.4	317.4
107.5°	395.6	395.2	394.8	394.5	394.8	395.2	395.6	395.9	395.7	394.7	393.8
110°	446.8	446.3	445.7	445.1	445.7	446.3	446.8	447.5	447.2	445.9	444.8



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	499.3	499.1	499.0	498.8	499.0	499.1	499.3	499.4	498.6	497.2	495.8
115°	573.7	573.5	573.1	572.8	573.1	573.5	573.7	574.0	574.0	573.7	573.5
117.5°	650.3	649.5	648.7	647.8	648.7	649.5	650.3	651.2	651.7	651.8	651.8
120°	702.4	701.8	701.2	700.5	701.2	701.8	702.4	702.9	703.4	703.7	704.0
122.5°	753.7	752.8	752.0	751.1	752.0	752.8	753.7	754.5	755.3	756.1	756.8
125°	830.5	829.4	828.1	827.0	828.1	829.4	830.5	831.7	832.9	834.1	835.4
127.5°	906.7	905.3	903.9	902.5	903.9	905.3	906.7	908.0	909.5	911.2	912.9
130°	958.3	956.2	954.1	952.0	954.1	956.2	958.3	960.4	962.1	963.2	964.4
132.5°	1008.5	1006.9	1005.2	1003.6	1005.2	1006.9	1008.5	1010.1	1011.6	1013.1	1014.5
135°	1085.6	1084.9	1084.4	1083.8	1084.4	1084.9	1085.6	1086.2	1087.1	1088.2	1089.5
137.5°	1157.9	1156.8	1155.7	1154.5	1155.7	1156.8	1157.9	1159.0	1160.3	1161.5	1162.8
140°	1207.0	1205.0	1202.8	1200.8	1202.8	1205.0	1207.0	1209.2	1210.3	1210.7	1210.9
142.5°	1252.9	1251.3	1249.7	1248.1	1249.7	1251.3	1252.9	1254.5	1255.5	1255.8	1256.2
145°	1320.0	1318.8	1317.6	1316.4	1317.6	1318.8	1320.0	1321.2	1322.0	1322.2	1322.5
147.5°	1382.6	1380.8	1378.9	1377.2	1378.9	1380.8	1382.6	1384.4	1385.3	1385.3	1385.3
150°	1421.3	1419.5	1417.7	1415.9	1417.7	1419.5	1421.3	1423.1	1424.0	1424.0	1424.0
152.5°	1458.2	1456.7	1455.1	1453.6	1455.1	1456.7	1458.2	1459.8	1460.4	1459.8	1459.4
155°	1510.9	1508.9	1506.7	1504.7	1506.7	1508.9	1510.9	1513.1	1513.5	1512.3	1511.1
157.5°	1556.2	1554.5	1552.8	1551.2	1552.8	1554.5	1556.2	1557.9	1558.1	1556.8	1555.6
160°	1584.9	1583.7	1582.5	1581.3	1582.5	1583.7	1584.9	1586.1	1585.9	1584.5	1583.0
162.5°	1609.6	1607.8	1605.8	1603.9	1605.8	1607.8	1609.6	1611.6	1611.8	1610.3	1608.7
165°	1642.7	1640.7	1638.5	1636.5	1638.5	1640.7	1642.7	1644.8	1644.9	1643.2	1641.4
167.5°	1669.7	1667.9	1666.0	1664.1	1666.0	1667.9	1669.7	1671.5	1671.5	1669.7	1667.9
170°	1684.4	1682.3	1680.3	1678.1	1680.3	1682.3	1684.4	1686.5	1686.5	1684.4	1682.3
172.5°	1695.1	1693.1	1691.0	1688.9	1691.0	1693.1	1695.1	1697.3	1697.4	1695.5	1693.6
175°	1707.3	1705.1	1703.1	1701.0	1703.1	1705.1	1707.3	1709.3	1709.5	1707.7	1705.9
177.5°	1712.4	1710.7	1709.1	1707.4	1709.1	1710.7	1712.4	1714.1	1714.2	1712.8	1711.4
180°	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	675.9	675.9	681.1	684.4	688.5	691.3	693.1	695.1	698.3	702.8	707.7
5°	637.3	638.6	646.1	653.7	660.8	667.0	672.1	678.2	685.8	695.0	705.3
7.5°	599.9	605.1	612.7	621.9	631.9	640.9	649.9	660.0	670.6	684.2	698.6
10°	575.8	581.6	590.8	602.4	613.1	623.6	634.9	645.8	659.2	675.2	693.7
12.5°	554.7	560.3	569.8	582.5	592.5	604.2	617.2	631.3	646.3	665.7	686.5
15°	525.6	532.1	543.7	549.8	565.3	579.3	591.2	611.6	630.8	650.6	674.8
17.5°	501.7	505.3	514.7	526.1	537.6	553.3	569.0	586.0	605.1	629.4	659.7
20°	485.3	488.4	498.6	510.6	522.9	537.3	551.3	568.3	589.8	615.5	648.2
22.5°	473.0	476.4	483.0	495.8	507.3	519.2	533.2	553.6	576.4	601.5	637.0
25°	455.2	457.3	461.7	472.0	482.2	495.5	507.8	527.0	550.5	579.9	615.5
27.5°	438.4	440.3	444.1	451.4	461.0	471.8	485.2	501.4	525.3	557.2	594.9
30°	428.3	428.6	432.0	438.8	447.0	455.9	468.2	486.7	509.2	541.6	581.3
32.5°	419.5	418.2	420.5	425.7	433.6	442.6	452.6	470.8	492.6	524.4	565.2
35°	404.7	404.0	403.0	407.4	414.3	421.1	430.0	443.6	468.2	497.9	540.6
37.5°	389.6	388.0	386.1	388.2	393.5	400.6	408.3	420.4	441.7	474.4	515.2
40°	378.4	377.0	376.0	375.3	380.1	386.9	392.7	404.4	424.2	455.2	495.5
42.5°	366.1	365.3	364.0	363.0	367.0	372.2	378.3	388.5	408.3	437.5	475.6
45°	346.3	345.6	344.9	344.3	346.6	351.4	356.2	363.7	380.8	409.1	443.6
47.5°	324.2	323.3	323.6	322.5	324.9	328.1	331.4	339.5	355.9	378.7	403.9
50°	308.4	308.1	308.1	308.1	308.7	312.5	315.6	321.7	336.7	359.6	377.7
52.5°	293.4	291.9	291.9	292.5	293.7	296.1	298.1	304.8	317.9	336.7	353.1
55°	269.8	267.1	266.4	267.1	268.1	270.1	272.2	277.7	288.9	302.9	312.5
57.5°	243.7	242.2	241.3	241.5	242.0	243.6	245.2	251.2	260.0	267.3	273.5
60°	225.4	226.0	223.0	223.7	223.7	225.1	227.5	231.2	238.7	243.9	250.0
62.5°	208.2	207.2	206.3	205.4	205.4	205.9	209.1	212.0	218.5	221.1	226.0
65°	181.4	181.4	179.3	179.9	180.3	177.9	179.7	183.1	187.2	188.2	192.6
67.5°	154.2	153.2	152.0	151.1	151.1	150.8	151.7	153.4	156.5	156.9	160.2
70°	135.5	134.9	134.6	133.6	132.2	133.8	132.9	134.6	136.3	136.6	138.7
72.5°	117.5	116.9	116.3	115.2	114.7	114.5	114.6	116.5	117.7	117.2	119.5
75°	91.8	91.2	90.5	88.8	88.8	87.7	88.1	89.4	90.9	89.8	91.8
77.5°	67.5	65.4	65.3	65.7	64.6	64.7	64.4	64.1	64.7	64.8	66.7
80°	51.9	49.5	50.2	49.8	49.5	49.2	48.5	48.9	49.2	49.5	50.6
82.5°	37.5	37.2	36.6	36.5	36.1	35.2	34.9	35.5	35.8	35.6	36.4
85°	19.1	18.1	18.8	18.5	18.8	18.5	17.4	17.4	18.1	17.7	18.5
87.5°	12.4	12.2	11.1	10.6	9.6	9.1	8.1	7.8	7.5	6.9	6.9
90°	33.4	32.3	28.4	24.5	20.6	16.8	13.3	10.3	7.3	4.4	1.3
92.5°	52.6	51.6	49.4	47.2	45.0	42.8	40.7	38.6	36.6	34.6	32.5
95°	100.7	99.5	97.1	94.7	92.3	90.0	87.7	85.6	83.6	81.4	79.4
97.5°	157.1	155.7	154.0	152.2	150.5	148.7	147.1	145.6	144.0	142.5	140.9
100°	198.6	197.7	196.2	194.7	193.1	191.7	190.0	188.2	186.5	184.7	182.9
102.5°	245.9	245.0	243.0	241.0	239.1	237.1	235.6	234.5	233.4	232.4	231.3
105°	317.4	317.4	314.7	311.9	309.2	306.6	305.0	304.3	303.7	303.2	302.6
107.5°	392.8	391.8	390.7	389.7	388.6	387.5	386.8	386.5	386.1	385.8	385.4
110°	443.6	442.4	441.8	441.2	440.6	440.0	439.4	438.8	438.2	437.7	437.0



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	494.4	492.9	492.8	492.7	492.6	492.5	492.2	491.9	491.5	491.2	490.8
115°	573.1	572.8	573.5	574.0	574.6	575.2	575.1	574.2	573.3	572.4	571.5
117.5°	651.8	651.9	652.6	653.4	654.2	655.0	655.1	654.5	653.9	653.3	652.7
120°	704.3	704.6	706.1	707.6	709.1	710.6	710.4	708.6	706.9	705.1	703.3
122.5°	757.6	758.4	759.2	759.9	760.7	761.5	761.3	759.9	758.6	757.2	756.0
125°	836.5	837.8	838.3	838.9	839.5	840.1	840.0	839.1	838.2	837.2	836.3
127.5°	914.5	916.2	916.9	917.6	918.2	918.9	918.3	916.3	914.4	912.5	910.6
130°	965.6	966.8	967.7	968.6	969.5	970.4	969.6	967.2	964.8	962.5	960.1
132.5°	1015.9	1017.4	1018.0	1018.7	1019.3	1020.0	1019.1	1016.7	1014.3	1011.9	1009.6
135°	1090.7	1091.9	1092.2	1092.4	1092.8	1093.1	1092.3	1090.5	1088.7	1086.9	1085.1
137.5°	1164.0	1165.3	1164.5	1163.7	1163.0	1162.2	1161.0	1159.6	1158.1	1156.5	1155.0
140°	1211.2	1211.6	1211.2	1210.9	1210.7	1210.3	1209.4	1207.9	1206.5	1205.0	1203.5
142.5°	1256.4	1256.7	1256.2	1255.6	1255.1	1254.5	1253.6	1252.1	1250.5	1249.0	1247.6
145°	1322.9	1323.1	1322.2	1321.3	1320.4	1319.6	1318.8	1318.2	1317.6	1317.1	1316.4
147.5°	1385.3	1385.3	1384.4	1383.6	1382.8	1381.9	1381.0	1379.9	1378.8	1377.7	1376.6
150°	1424.0	1424.0	1423.3	1422.8	1422.2	1421.6	1421.0	1420.4	1419.8	1419.2	1418.6
152.5°	1458.9	1458.4	1458.0	1457.7	1457.3	1457.0	1456.3	1455.5	1454.7	1453.8	1453.0
155°	1509.9	1508.7	1508.4	1508.1	1507.8	1507.5	1507.3	1507.3	1507.3	1507.3	1507.3
157.5°	1554.3	1553.1	1552.8	1552.6	1552.4	1552.1	1552.2	1552.6	1552.9	1553.3	1553.6
160°	1581.4	1579.9	1579.9	1579.9	1579.9	1579.9	1580.3	1580.8	1581.4	1582.1	1582.7
162.5°	1607.3	1605.8	1605.5	1605.3	1605.1	1604.8	1605.2	1606.0	1606.8	1607.7	1608.5
165°	1639.6	1637.8	1637.8	1637.8	1637.8	1637.8	1638.3	1639.1	1640.0	1640.9	1641.8
167.5°	1666.0	1664.1	1663.9	1663.7	1663.4	1663.2	1663.7	1664.8	1666.1	1667.2	1668.5
170°	1680.3	1678.1	1678.1	1678.1	1678.1	1678.1	1678.7	1679.9	1681.1	1682.3	1683.5
172.5°	1691.8	1690.0	1690.0	1690.0	1690.0	1690.0	1690.6	1691.8	1692.9	1694.2	1695.3
175°	1704.1	1702.4	1702.4	1702.4	1702.4	1702.4	1702.9	1704.1	1705.3	1706.6	1707.7
177.5°	1709.9	1708.5	1708.5	1708.5	1708.5	1708.5	1709.0	1709.9	1710.9	1711.9	1712.8
180°	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	709.3	710.6	715.2	718.5	722.4	724.6	726.7	728.4	730.6	731.1	739.0
5°	712.4	719.3	731.2	740.0	751.0	762.9	771.2	774.9	784.8	793.0	809.4
7.5°	711.5	726.0	744.1	762.9	782.9	801.5	817.6	836.7	850.3	870.8	890.9
10°	710.7	730.1	753.4	777.3	805.3	831.3	854.5	880.5	902.0	930.3	954.6
12.5°	708.3	731.8	764.0	792.3	826.3	862.1	896.5	929.9	949.0	996.1	1018.5
15°	702.1	730.1	770.4	813.5	860.3	902.7	946.4	981.1	1037.5	1078.9	1105.2
17.5°	690.5	729.8	777.6	829.5	886.4	942.2	991.7	1044.6	1104.4	1154.3	1207.6
20°	685.1	728.1	781.4	838.7	897.9	961.0	1017.4	1080.9	1146.1	1195.3	1263.6
22.5°	675.0	723.7	781.1	845.1	908.2	973.6	1039.6	1103.6	1178.9	1246.7	1311.7
25°	658.4	713.1	772.5	843.9	918.0	983.6	1062.5	1147.5	1226.1	1313.1	1378.0
27.5°	641.1	699.5	759.0	825.4	905.1	982.9	1082.2	1178.2	1274.3	1349.5	1397.5
30°	627.7	684.4	745.9	812.8	891.7	984.3	1095.3	1200.1	1293.7	1358.3	1385.2
32.5°	613.2	670.7	725.1	795.3	879.4	983.5	1103.5	1212.9	1294.8	1337.7	1332.5
35°	590.5	638.6	691.6	759.2	858.3	977.4	1108.2	1214.1	1264.3	1255.1	1185.4
37.5°	557.7	598.2	650.3	724.3	833.7	964.8	1098.7	1178.1	1174.8	1099.7	998.8
40°	537.3	571.7	621.9	699.8	814.5	956.6	1083.6	1135.2	1091.5	986.7	865.8
42.5°	510.4	542.2	592.4	672.4	793.5	940.0	1055.0	1069.9	984.4	863.7	753.0
45°	469.0	497.0	548.8	631.5	762.0	903.7	985.0	948.4	833.3	708.6	624.3
47.5°	424.3	453.4	503.4	588.3	716.3	849.1	887.8	810.1	691.9	590.8	513.4
50°	396.2	424.2	473.0	558.7	685.5	804.3	820.4	720.0	611.4	522.5	459.0
52.5°	367.7	394.1	442.1	528.2	649.3	752.3	742.4	640.2	540.3	464.6	414.7
55°	325.5	350.4	396.2	476.8	587.1	668.7	632.8	535.2	452.5	393.8	355.9
57.5°	287.7	311.6	351.0	423.8	519.7	575.8	530.2	447.9	382.2	337.0	308.7
60°	262.0	283.1	320.7	388.3	471.6	514.3	469.2	396.5	341.2	305.0	279.7
62.5°	237.6	256.1	290.9	352.2	424.6	460.5	414.9	353.3	306.2	274.1	252.6
65°	200.8	217.6	248.3	296.1	355.5	379.4	340.2	290.3	253.8	229.9	215.5
67.5°	167.2	181.4	207.9	245.6	289.4	306.7	276.9	238.3	210.7	191.5	180.1
70°	144.8	157.1	177.9	210.4	250.0	263.3	235.3	203.6	183.4	168.0	157.5
72.5°	125.9	135.0	153.9	179.0	212.0	222.6	203.0	175.1	156.3	144.8	136.4
75°	95.9	103.4	115.7	135.9	158.8	165.0	150.3	132.9	120.2	112.0	105.5
77.5°	69.2	74.7	83.6	96.0	111.9	117.4	108.2	96.5	87.3	81.8	78.1
80°	52.3	56.7	64.2	74.5	84.0	87.1	81.6	72.8	66.3	63.2	60.1
82.5°	38.6	41.1	45.7	52.6	59.1	62.8	58.1	52.8	49.3	46.5	45.4
85°	19.4	20.9	22.9	25.6	29.7	31.1	29.3	28.0	25.9	24.3	24.3
87.5°	7.9	8.6	10.0	11.1	12.9	14.5	15.0	15.2	15.8	15.7	15.7
90°	4.4	7.3	10.3	13.3	16.8	20.6	24.5	28.4	32.3	33.4	34.7
92.5°	34.6	36.6	38.6	40.7	42.8	45.0	47.2	49.4	51.6	52.6	53.5
95°	81.4	83.6	85.6	87.7	90.0	92.3	94.7	97.1	99.5	100.7	101.9
97.5°	142.5	144.0	145.6	147.1	148.7	150.5	152.2	154.0	155.7	157.1	158.5
100°	184.7	186.5	188.2	190.0	191.7	193.1	194.7	196.2	197.7	198.6	199.5
102.5°	232.4	233.4	234.5	235.6	237.1	239.1	241.0	243.0	245.0	245.9	246.8
105°	303.2	303.7	304.3	305.0	306.6	309.2	311.9	314.7	317.4	317.4	317.4
107.5°	385.8	386.1	386.5	386.8	387.5	388.6	389.7	390.7	391.8	392.8	393.8
110°	437.7	438.2	438.8	439.4	440.0	440.6	441.2	441.8	442.4	443.6	444.8



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	491.2	491.5	491.9	492.2	492.5	492.6	492.7	492.8	492.9	494.4	495.8
115°	572.4	573.3	574.2	575.1	575.2	574.6	574.0	573.5	572.8	573.1	573.5
117.5°	653.3	653.9	654.5	655.1	655.0	654.2	653.4	652.6	651.9	651.8	651.8
120°	705.1	706.9	708.6	710.4	710.6	709.1	707.6	706.1	704.6	704.3	704.0
122.5°	757.2	758.6	759.9	761.3	761.5	760.7	759.9	759.2	758.4	757.6	756.8
125°	837.2	838.2	839.1	840.0	840.1	839.5	838.9	838.3	837.8	836.5	835.4
127.5°	912.5	914.4	916.3	918.3	918.9	918.2	917.6	916.9	916.2	914.5	912.9
130°	962.5	964.8	967.2	969.6	970.4	969.5	968.6	967.7	966.8	965.6	964.4
132.5°	1011.9	1014.3	1016.7	1019.1	1020.0	1019.3	1018.7	1018.0	1017.4	1015.9	1014.5
135°	1086.9	1088.7	1090.5	1092.3	1093.1	1092.8	1092.4	1092.2	1091.9	1090.7	1089.5
137.5°	1156.5	1158.1	1159.6	1161.0	1162.2	1163.0	1163.7	1164.5	1165.3	1164.0	1162.8
140°	1205.0	1206.5	1207.9	1209.4	1210.3	1210.7	1210.9	1211.2	1211.6	1211.2	1210.9
142.5°	1249.0	1250.5	1252.1	1253.6	1254.5	1255.1	1255.6	1256.2	1256.7	1256.4	1256.2
145°	1317.1	1317.6	1318.2	1318.8	1319.6	1320.4	1321.3	1322.2	1323.1	1322.9	1322.5
147.5°	1377.7	1378.8	1379.9	1381.0	1381.9	1382.8	1383.6	1384.4	1385.3	1385.3	1385.3
150°	1419.2	1419.8	1420.4	1421.0	1421.6	1422.2	1422.8	1423.3	1424.0	1424.0	1424.0
152.5°	1453.8	1454.7	1455.5	1456.3	1457.0	1457.3	1457.7	1458.0	1458.4	1458.9	1459.4
155°	1507.3	1507.3	1507.3	1507.3	1507.5	1507.8	1508.1	1508.4	1508.7	1509.9	1511.1
157.5°	1553.3	1552.9	1552.6	1552.2	1552.1	1552.4	1552.6	1552.8	1553.1	1554.3	1555.6
160°	1582.1	1581.4	1580.8	1580.3	1579.9	1579.9	1579.9	1579.9	1579.9	1581.4	1583.0
162.5°	1607.7	1606.8	1606.0	1605.2	1604.8	1605.1	1605.3	1605.5	1605.8	1607.3	1608.7
165°	1640.9	1640.0	1639.1	1638.3	1637.8	1637.8	1637.8	1637.8	1637.8	1639.6	1641.4
167.5°	1667.2	1666.1	1664.8	1663.7	1663.2	1663.4	1663.7	1663.9	1664.1	1666.0	1667.9
170°	1682.3	1681.1	1679.9	1678.7	1678.1	1678.1	1678.1	1678.1	1678.1	1680.3	1682.3
172.5°	1694.2	1692.9	1691.8	1690.6	1690.0	1690.0	1690.0	1690.0	1690.0	1691.8	1693.6
175°	1706.6	1705.3	1704.1	1702.9	1702.4	1702.4	1702.4	1702.4	1702.4	1704.1	1705.9
177.5°	1711.9	1710.9	1709.9	1709.0	1708.5	1708.5	1708.5	1708.5	1708.5	1709.9	1711.4
180°	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	741.8	742.1	745.0	747.3	746.2	747.5	748.1
5°	810.4	822.7	829.2	834.0	834.4	834.6	837.4
7.5°	907.8	921.0	930.6	945.2	949.6	954.6	953.1
10°	978.8	998.3	1015.0	1023.9	1033.4	1047.4	1036.2
12.5°	1045.2	1079.7	1105.2	1118.9	1128.0	1130.8	1125.2
15°	1154.7	1199.8	1224.1	1223.3	1254.1	1267.4	1246.5
17.5°	1255.1	1296.7	1330.0	1347.1	1372.7	1378.4	1375.8
20°	1316.5	1362.0	1387.9	1417.3	1430.7	1442.6	1444.7
22.5°	1369.6	1410.3	1438.2	1462.7	1473.8	1479.4	1482.9
25°	1424.2	1456.3	1473.0	1481.5	1484.6	1483.9	1479.4
27.5°	1420.4	1422.8	1404.4	1386.3	1370.1	1351.8	1345.6
30°	1383.5	1354.8	1303.6	1274.5	1231.9	1198.0	1211.7
32.5°	1286.5	1229.4	1171.9	1108.4	1055.9	1041.0	1025.9
35°	1098.0	997.6	938.9	870.6	843.2	815.9	797.1
37.5°	888.3	810.7	740.9	696.2	668.9	651.7	642.3
40°	768.1	698.0	640.7	604.5	583.6	564.2	561.4
42.5°	672.2	607.1	563.9	535.1	515.1	506.8	500.8
45°	550.5	505.1	476.1	455.6	442.3	437.1	430.3
47.5°	466.0	433.9	412.1	398.1	388.1	384.2	383.7
50°	418.7	392.1	376.0	365.1	357.2	355.9	350.4
52.5°	383.2	360.1	347.6	338.0	332.3	328.5	326.9
55°	332.6	317.3	306.0	300.5	296.1	292.3	292.3
57.5°	291.1	278.2	270.7	266.1	264.7	262.1	260.4
60°	265.4	254.4	248.6	244.5	241.8	242.1	239.1
62.5°	240.2	233.1	227.6	223.5	220.3	220.3	220.5
65°	204.6	199.1	195.0	193.7	191.6	189.2	189.8
67.5°	173.3	168.3	165.1	162.7	162.0	160.7	162.7
70°	151.0	147.2	144.8	142.8	142.0	142.4	144.1
72.5°	130.5	127.8	126.3	125.3	123.8	123.9	125.0
75°	102.5	100.4	99.1	98.0	97.6	97.6	97.6
77.5°	75.3	74.8	74.2	72.7	72.8	73.1	73.2
80°	59.4	58.4	58.1	57.3	56.4	55.6	57.3
82.5°	44.4	43.3	43.1	42.9	41.3	41.2	42.6
85°	23.9	22.9	23.2	22.9	22.9	22.6	22.6
87.5°	15.6	15.6	15.5	15.9	15.8	15.6	16.2
90°	35.8	37.1	38.0	38.5	39.1	39.8	40.3
92.5°	54.5	55.5	55.7	55.4	55.0	54.7	54.3
95°	103.1	104.2	104.9	104.9	104.9	104.9	104.9
97.5°	159.8	161.2	161.8	161.8	161.6	161.5	161.4
100°	200.4	201.3	202.0	202.6	203.2	203.8	204.4
102.5°	247.7	248.6	249.0	248.9	248.7	248.6	248.5
105°	317.4	317.4	317.6	318.3	318.9	319.4	320.0
107.5°	394.7	395.7	395.9	395.6	395.2	394.8	394.5
110°	445.9	447.2	447.5	446.8	446.3	445.7	445.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	497.2	498.6	499.4	499.3	499.1	499.0	498.8
115°	573.7	574.0	574.0	573.7	573.5	573.1	572.8
117.5°	651.8	651.7	651.2	650.3	649.5	648.7	647.8
120°	703.7	703.4	702.9	702.4	701.8	701.2	700.5
122.5°	756.1	755.3	754.5	753.7	752.8	752.0	751.1
125°	834.1	832.9	831.7	830.5	829.4	828.1	827.0
127.5°	911.2	909.5	908.0	906.7	905.3	903.9	902.5
130°	963.2	962.1	960.4	958.3	956.2	954.1	952.0
132.5°	1013.1	1011.6	1010.1	1008.5	1006.9	1005.2	1003.6
135°	1088.2	1087.1	1086.2	1085.6	1084.9	1084.4	1083.8
137.5°	1161.5	1160.3	1159.0	1157.9	1156.8	1155.7	1154.5
140°	1210.7	1210.3	1209.2	1207.0	1205.0	1202.8	1200.8
142.5°	1255.8	1255.5	1254.5	1252.9	1251.3	1249.7	1248.1
145°	1322.2	1322.0	1321.2	1320.0	1318.8	1317.6	1316.4
147.5°	1385.3	1385.3	1384.4	1382.6	1380.8	1378.9	1377.2
150°	1424.0	1424.0	1423.1	1421.3	1419.5	1417.7	1415.9
152.5°	1459.8	1460.4	1459.8	1458.2	1456.7	1455.1	1453.6
155°	1512.3	1513.5	1513.1	1510.9	1508.9	1506.7	1504.7
157.5°	1556.8	1558.1	1557.9	1556.2	1554.5	1552.8	1551.2
160°	1584.5	1585.9	1586.1	1584.9	1583.7	1582.5	1581.3
162.5°	1610.3	1611.8	1611.6	1609.6	1607.8	1605.8	1603.9
165°	1643.2	1644.9	1644.8	1642.7	1640.7	1638.5	1636.5
167.5°	1669.7	1671.5	1671.5	1669.7	1667.9	1666.0	1664.1
170°	1684.4	1686.5	1686.5	1684.4	1682.3	1680.3	1678.1
172.5°	1695.5	1697.4	1697.3	1695.1	1693.1	1691.0	1688.9
175°	1707.7	1709.5	1709.3	1707.3	1705.1	1703.1	1701.0
177.5°	1712.8	1714.2	1714.1	1712.4	1710.7	1709.1	1707.4
180°	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7

(END OF REPORT)