

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: P332769-927

Luminaire Tested: **S124DIW-S575D1560U927-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332769-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DIW-S575D1560U927-4F0-1E-UDD-A
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 575 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1560 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6998.2 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Semi-Indirect

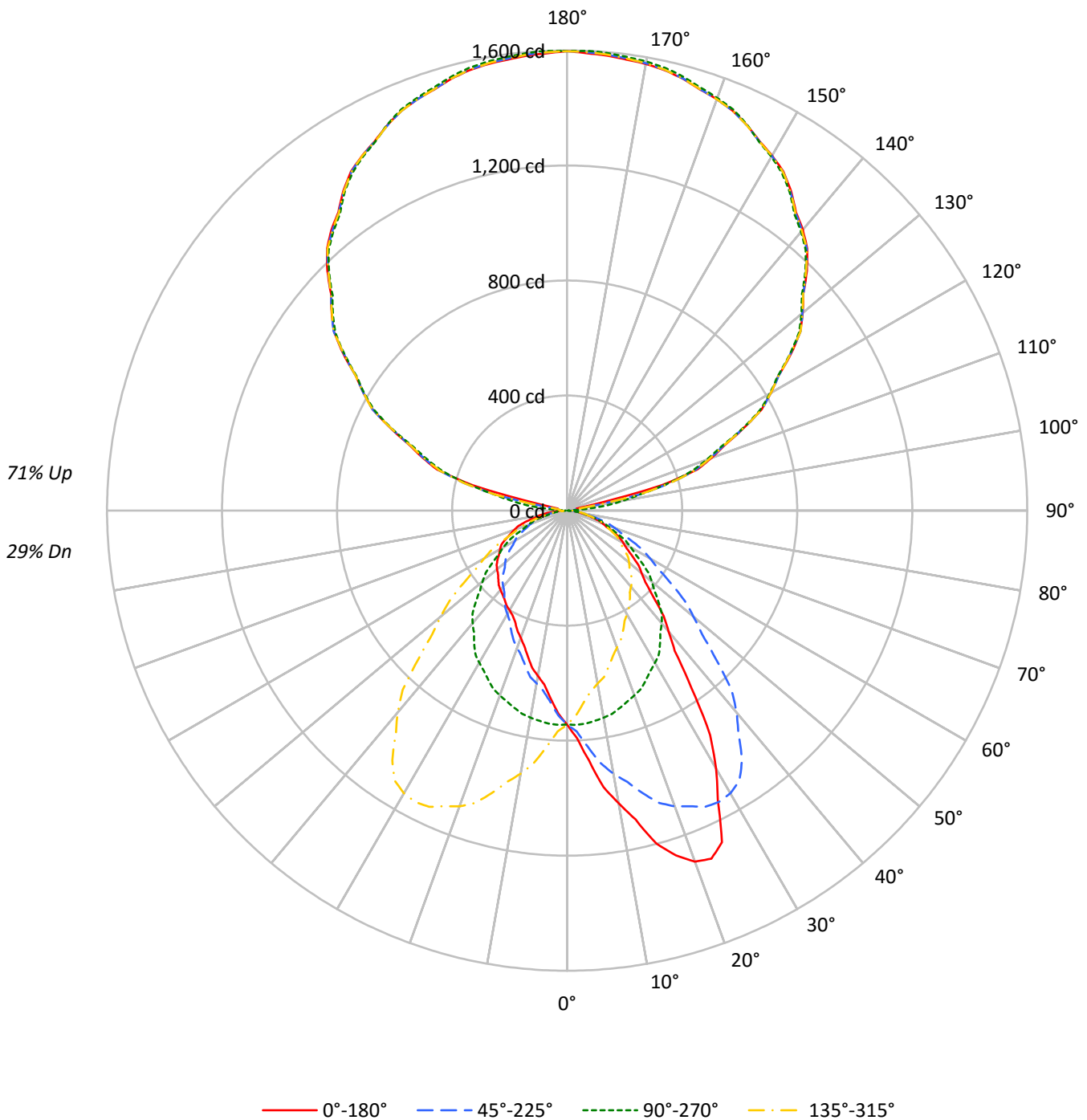
Input Watts (W): 60.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	37	37	37	29
1	93	89	85	82	83	80	77	74	63	61	59	47	46	45	33	32	32	25
2	85	78	72	67	76	70	65	61	55	52	49	42	40	38	29	28	27	21
3	78	69	62	56	69	62	56	51	49	45	41	37	34	32	26	24	23	18
4	71	61	53	47	63	55	48	43	43	39	35	33	30	27	23	21	20	16
5	65	54	46	40	58	49	42	37	39	34	30	30	26	24	21	19	17	14
6	60	48	41	35	53	44	37	32	35	30	26	27	23	21	19	17	15	12
7	55	43	36	31	49	39	33	28	32	27	23	24	21	18	17	15	14	11
8	51	39	32	27	46	36	29	25	29	24	20	22	19	16	16	14	12	10
9	48	36	29	24	43	33	26	22	26	22	18	20	17	15	15	13	11	9
10	44	33	26	21	40	30	24	20	24	19	16	19	15	13	14	11	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6006	6006	6006	6006
5°	7074	6022	5315	6022
10°	8470	5996	4786	5996
15°	10021	5935	4395	5935
20°	11159	5874	4046	5874
25°	11339	5782	3805	5782
30°	9648	5695	3730	5695
35°	7418	5552	3730	5552
40°	5782	5385	3800	5385
45°	4820	5134	3863	5134
50°	4243	4828	3995	4828
55°	3887	4460	4155	4460
60°	3643	4130	4350	4130
65°	3391	3761	4510	3761
70°	3099	3397	4612	3397
75°	2770	2991	4557	2991
80°	2320	2450	4412	2450
85°	1714	1769	4224	1769



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.5	1.0
10°-20°	223.4	3.2
20°-30°	354.3	5.1
30°-40°	394.3	5.6
40°-50°	358.9	5.1
50°-60°	293.3	4.2
60°-70°	209.4	3.0
70°-80°	115.3	1.6
80°-90°	36.1	0.5
90°-100°	54.6	0.8
100°-110°	348.3	5.0
110°-120°	666.3	9.5
120°-130°	845.9	12.1
130°-140°	905.0	12.9
140°-150°	846.3	12.1
150°-160°	682.5	9.8
160°-170°	440.2	6.3
170°-180°	151.7	2.2
0°-30°	650.2	9.3
0°-40°	1044.5	14.9
0°-60°	1696.7	24.2
0°-90°	2057.5	29.4
90°-120°	1069.3	15.3
90°-150°	3666.4	52.4
90°-180°	4941.0	70.6
0°-180°	6998.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	744	744	744	744	744	
5°	873	743	656	743	873	89
15°	1199	710	526	710	1199	339
25°	1273	649	427	649	1273	561
35°	753	563	378	563	753	478
45°	422	450	338	450	422	333
55°	276	317	295	317	276	249
65°	178	197	236	197	178	176
75°	89	96	146	96	89	94
85°	18	19	46	19	18	23
90°	36	4	36	4	36	16
95°	35	66	35	66	35	28
105°	340	360	340	360	340	297
115°	676	671	676	671	676	669
125°	951	944	951	944	951	847
135°	1179	1171	1179	1171	1179	908
145°	1357	1350	1357	1350	1357	848
155°	1479	1480	1479	1480	1479	682
165°	1554	1561	1554	1561	1554	439
175°	1588	1597	1588	1597	1588	151
180°	1597	1597	1597	1597	1597	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0
2.5°	791.9	791.6	789.2	788.7	787.0	784.7	784.3	780.3	772.4	768.7	767.7
5°	872.9	879.1	871.0	869.5	868.5	858.4	853.2	847.0	832.8	824.5	818.0
7.5°	969.6	970.3	966.8	963.9	956.1	947.2	933.9	919.7	902.9	885.3	872.0
10°	1033.2	1035.6	1031.7	1031.0	1015.3	1005.4	985.7	969.1	949.9	928.7	909.3
12.5°	1100.3	1096.8	1094.7	1081.6	1078.6	1060.7	1037.8	1020.6	991.1	966.6	940.8
15°	1199.0	1192.2	1187.9	1169.7	1160.8	1135.8	1111.4	1092.7	1054.2	1017.5	989.7
17.5°	1257.0	1263.7	1253.7	1246.3	1223.1	1205.6	1180.7	1141.3	1111.1	1065.6	1030.5
20°	1298.9	1299.5	1294.0	1286.2	1268.0	1245.9	1218.7	1175.6	1139.5	1094.2	1046.1
22.5°	1310.2	1310.3	1308.0	1300.8	1287.0	1269.0	1241.7	1205.6	1162.0	1112.7	1064.6
25°	1273.0	1271.8	1274.5	1282.5	1277.3	1271.8	1256.0	1229.2	1188.5	1136.4	1084.7
27.5°	1134.6	1143.1	1158.8	1178.5	1197.5	1212.0	1216.1	1210.6	1185.3	1142.5	1088.3
30°	1035.0	1045.5	1057.2	1077.0	1115.2	1137.0	1161.1	1179.2	1169.1	1134.9	1084.3
32.5°	925.5	928.1	945.5	968.0	1003.0	1045.0	1083.2	1120.1	1132.3	1114.4	1072.2
35°	752.7	757.0	775.8	798.0	840.8	892.3	949.7	1000.8	1043.1	1060.0	1038.4
37.5°	614.3	626.6	639.8	663.7	701.5	747.8	807.4	873.5	936.5	978.7	985.8
40°	548.7	556.3	565.9	584.1	616.2	661.8	712.9	788.8	855.6	916.1	935.8
42.5°	496.9	501.4	507.2	523.6	548.1	593.4	640.2	706.9	774.0	846.3	879.3
45°	422.2	426.9	436.7	446.3	464.8	496.2	539.7	594.5	662.0	731.7	792.7
47.5°	368.4	371.4	377.2	387.5	403.1	423.9	459.2	505.0	567.6	635.3	700.3
50°	337.8	340.2	344.9	354.2	366.1	384.7	413.6	456.5	505.5	573.6	637.4
52.5°	313.6	314.7	318.1	324.3	333.9	349.4	373.2	408.6	454.2	514.9	578.5
55°	276.2	277.4	280.5	285.1	293.4	303.3	321.5	348.0	387.8	440.5	495.6
57.5°	245.3	246.2	248.8	250.6	257.5	265.5	279.4	298.3	328.5	373.2	422.5
60°	225.6	225.0	228.1	229.7	234.2	241.1	251.8	270.0	296.2	332.2	377.6
62.5°	206.4	205.5	208.1	210.2	212.8	218.6	227.4	241.6	262.9	295.6	334.7
65°	177.5	176.3	177.8	180.3	182.8	185.8	192.3	204.9	221.9	245.3	275.2
67.5°	148.5	149.9	150.1	151.3	152.7	156.9	161.4	170.3	182.3	201.1	226.3
70°	131.3	131.6	132.8	132.8	133.8	137.4	141.2	146.4	158.1	175.4	196.1
72.5°	114.1	115.3	114.9	115.8	116.5	119.0	121.7	126.7	136.7	149.5	166.9
75°	88.8	89.7	89.7	90.0	90.9	91.8	94.0	97.7	104.8	114.3	126.4
77.5°	64.7	64.9	65.3	66.4	66.4	67.9	69.5	72.4	76.0	82.5	89.8
80°	49.9	50.5	50.2	50.9	50.9	52.1	52.7	56.4	57.9	62.3	68.1
82.5°	36.6	37.2	37.2	38.0	38.5	38.7	39.6	41.1	42.6	46.5	48.9
85°	18.5	19.1	18.5	19.1	20.0	20.4	21.2	21.5	22.8	23.8	25.9
87.5°	12.6	13.2	13.2	13.2	13.6	13.7	13.6	13.1	13.7	13.6	14.2
90°	35.8	35.3	34.8	34.2	33.7	32.6	31.1	29.5	27.9	26.3	24.2
92.5°	33.0	32.9	32.8	32.6	32.6	31.7	30.1	28.5	26.9	25.3	23.2
95°	34.6	34.4	34.1	33.8	33.6	32.6	31.1	29.5	27.9	26.3	26.0
97.5°	33.4	33.2	33.0	32.6	32.4	32.2	32.0	31.8	31.7	31.5	61.2
100°	33.4	33.2	33.0	32.6	32.4	34.5	39.1	43.6	48.1	52.6	89.2
102.5°	34.4	34.4	34.3	34.2	34.2	58.5	107.2	155.9	204.5	253.3	258.0
105°	340.5	350.1	359.6	369.2	378.7	382.3	379.9	377.5	375.1	372.7	371.4
107.5°	474.5	473.5	472.5	471.5	470.5	469.4	468.3	467.1	465.9	464.7	462.9
110°	532.8	532.0	531.2	530.4	529.7	528.9	528.5	527.9	527.4	526.8	525.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	591.1	590.1	589.1	588.1	587.1	586.6	586.7	586.8	586.9	587.1	586.3
115°	676.2	676.2	676.2	676.2	676.2	675.9	675.3	674.9	674.3	673.8	674.1
117.5°	762.6	762.8	762.9	763.0	763.1	763.2	763.3	763.4	763.5	763.6	763.0
120°	817.1	817.7	818.2	818.7	819.3	819.3	818.7	818.2	817.7	817.1	817.4
122.5°	870.7	871.2	871.7	872.3	872.7	872.9	872.6	872.3	872.0	871.6	871.2
125°	950.9	950.7	950.4	950.1	949.9	949.4	948.6	947.8	947.0	946.2	946.7
127.5°	1021.4	1021.6	1021.8	1022.1	1022.2	1022.5	1022.6	1022.8	1022.9	1023.1	1021.8
130°	1069.2	1069.2	1069.2	1069.2	1069.2	1069.1	1068.8	1068.6	1068.3	1068.0	1067.2
132.5°	1113.2	1113.4	1113.6	1113.8	1114.0	1114.0	1113.7	1113.5	1113.2	1112.9	1111.9
135°	1179.1	1178.6	1178.1	1177.5	1177.0	1176.5	1175.9	1175.4	1174.9	1174.3	1173.3
137.5°	1235.5	1235.6	1235.8	1236.0	1236.1	1236.0	1235.3	1234.8	1234.1	1233.6	1232.4
140°	1274.7	1274.4	1274.1	1273.9	1273.6	1273.1	1272.3	1271.5	1270.7	1269.9	1269.4
142.5°	1307.2	1307.1	1307.1	1307.0	1306.9	1306.6	1306.1	1305.5	1304.9	1304.3	1304.0
145°	1357.1	1356.6	1356.1	1355.5	1355.0	1354.6	1354.3	1354.1	1353.8	1353.5	1353.5
147.5°	1398.4	1398.2	1397.9	1397.6	1397.4	1397.2	1396.9	1396.7	1396.5	1396.3	1396.5
150°	1425.2	1425.0	1424.7	1424.4	1424.2	1424.0	1424.0	1424.0	1424.0	1424.0	1424.3
152.5°	1448.1	1448.3	1448.4	1448.6	1448.7	1448.7	1448.2	1447.8	1447.4	1446.9	1447.4
155°	1479.0	1479.8	1480.6	1481.4	1482.2	1482.0	1481.0	1479.9	1478.8	1477.7	1478.6
157.5°	1504.8	1506.2	1507.5	1508.9	1510.3	1510.3	1508.9	1507.5	1506.2	1504.8	1505.7
160°	1521.9	1523.6	1525.2	1526.8	1528.4	1528.4	1526.8	1525.2	1523.6	1521.9	1522.3
162.5°	1535.3	1537.2	1539.0	1540.8	1542.5	1542.7	1541.1	1539.5	1537.9	1536.3	1536.6
165°	1554.3	1556.6	1559.0	1561.4	1563.8	1563.9	1561.8	1559.6	1557.5	1555.4	1555.4
167.5°	1568.4	1571.0	1573.7	1576.3	1579.0	1579.1	1576.8	1574.5	1572.1	1569.8	1569.9
170°	1576.9	1579.6	1582.2	1584.9	1587.5	1587.9	1585.7	1583.6	1581.4	1579.3	1579.1
172.5°	1581.7	1584.6	1587.5	1590.3	1593.2	1593.6	1591.4	1589.3	1587.1	1585.1	1584.8
175°	1587.7	1590.9	1594.0	1597.2	1600.4	1600.8	1598.5	1596.0	1593.6	1591.3	1591.0
177.5°	1591.5	1594.0	1596.6	1599.2	1601.7	1602.1	1600.4	1598.7	1597.0	1595.3	1594.9
180°	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0
2.5°	767.9	764.5	762.1	760.1	754.6	751.5	749.0	745.5	741.6	737.4	732.2
5°	811.6	801.1	793.4	781.6	770.6	761.3	751.8	743.1	732.6	721.3	712.9
7.5°	857.4	841.8	821.8	804.5	785.0	768.0	752.9	737.4	721.2	705.5	691.2
10°	886.5	866.4	844.2	818.0	793.4	771.5	751.1	731.4	712.3	693.2	676.8
12.5°	917.7	892.8	860.0	829.3	801.8	772.5	747.9	723.7	700.7	680.6	661.6
15°	959.8	923.8	885.8	844.9	808.5	774.3	740.7	710.1	684.3	657.7	639.3
17.5°	985.6	941.0	897.7	854.8	810.8	767.6	731.4	696.2	663.8	637.5	614.2
20°	1002.7	958.3	904.4	861.5	809.1	764.7	722.8	683.7	649.7	621.7	597.6
22.5°	1017.5	966.1	912.2	855.8	803.7	756.5	710.7	671.3	636.7	607.1	584.1
25°	1025.5	966.6	908.0	851.9	792.7	737.0	695.4	649.1	612.1	581.0	556.3
27.5°	1026.4	963.4	897.1	834.8	773.7	721.8	669.2	627.9	589.5	556.6	532.9
30°	1023.6	958.0	886.8	819.3	758.0	701.5	655.9	610.9	571.7	539.1	514.4
32.5°	1014.9	946.6	873.5	802.0	738.5	683.3	636.2	593.4	555.2	523.1	497.2
35°	990.0	922.5	844.5	770.2	705.2	649.4	606.9	563.4	525.2	494.7	469.8
37.5°	951.0	889.9	810.7	733.8	669.9	613.9	571.7	532.5	498.0	467.0	441.4
40°	917.0	863.3	783.8	708.9	639.8	586.5	547.1	511.0	476.8	447.5	423.2
42.5°	877.7	831.0	757.6	678.3	611.7	558.2	519.8	487.4	455.1	428.1	403.7
45°	807.9	777.1	708.0	634.6	565.3	514.8	478.1	449.7	422.6	396.1	375.7
47.5°	727.5	712.2	654.0	584.4	518.6	468.7	437.0	410.7	387.0	364.5	346.6
50°	673.4	666.1	615.8	548.7	485.8	438.9	406.9	384.4	364.0	344.3	327.3
52.5°	620.2	620.0	574.6	513.1	455.0	409.8	378.0	357.0	339.4	323.3	308.1
55°	538.8	547.4	512.0	457.1	405.0	364.3	335.6	316.9	304.5	291.3	279.9
57.5°	464.0	478.3	449.1	400.8	357.3	319.8	294.9	280.7	267.6	259.6	251.3
60°	415.2	428.7	405.9	365.3	324.2	292.2	268.5	255.8	244.4	238.8	233.0
62.5°	371.8	383.9	366.9	329.2	293.7	262.8	242.8	230.7	223.0	216.9	213.0
65°	309.7	320.0	305.5	278.1	247.5	222.8	206.5	196.9	189.6	187.1	182.8
67.5°	250.4	259.7	251.8	228.5	204.1	185.4	172.6	163.4	159.1	156.9	153.8
70°	215.2	224.4	216.0	195.7	176.9	161.2	149.2	143.9	139.3	138.4	134.1
72.5°	185.3	191.6	183.2	167.4	151.3	138.0	128.7	123.3	120.8	119.1	116.8
75°	139.0	144.6	139.0	126.7	115.3	106.0	98.0	95.9	93.1	92.1	90.6
77.5°	98.4	103.2	98.9	91.3	82.7	75.6	71.3	68.5	67.9	66.3	67.0
80°	75.2	78.3	74.3	69.1	62.3	57.4	54.3	52.7	50.9	50.2	51.5
82.5°	54.0	55.4	53.3	49.8	44.8	41.5	39.5	37.6	37.3	37.4	37.4
85°	28.0	27.7	27.4	24.3	22.8	20.7	19.4	19.1	18.8	19.4	20.0
87.5°	13.8	13.6	12.9	11.4	10.1	8.8	7.9	7.1	7.9	8.8	9.6
90°	22.0	19.9	17.8	15.3	12.4	9.4	6.5	3.6	6.5	9.4	12.4
92.5°	21.1	18.9	16.8	15.7	15.5	15.4	15.2	15.1	15.2	15.4	15.5
95°	25.7	25.5	25.2	29.6	38.7	47.7	56.6	65.7	56.6	47.7	38.7
97.5°	90.8	120.4	150.0	162.1	156.5	150.8	145.1	139.5	145.1	150.8	156.5
100°	125.8	162.5	199.1	215.0	210.2	205.5	200.7	195.9	200.7	205.5	210.2
102.5°	262.8	267.6	272.4	273.0	269.5	266.0	262.5	259.0	262.5	266.0	269.5
105°	370.1	368.8	367.4	366.0	364.4	362.7	361.2	359.6	361.2	362.7	364.4
107.5°	461.1	459.3	457.5	456.2	455.4	454.6	453.8	453.0	453.8	454.6	455.4
110°	523.6	522.0	520.5	519.3	518.5	517.7	516.9	516.1	516.9	517.7	518.5



TEST NUMBER: P332769-927

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	585.6	584.8	584.1	583.0	581.5	580.1	578.7	577.3	578.7	580.1	581.5
115°	674.3	674.5	674.9	674.5	673.8	673.0	672.2	671.4	672.2	673.0	673.8
117.5°	762.5	761.8	761.3	760.5	759.4	758.4	757.2	756.2	757.2	758.4	759.4
120°	817.7	817.9	818.2	817.8	816.7	815.7	814.6	813.6	814.6	815.7	816.7
122.5°	870.8	870.5	870.1	869.7	868.9	868.3	867.7	867.0	867.7	868.3	868.9
125°	947.2	947.8	948.2	948.0	947.0	945.9	944.8	943.8	944.8	945.9	947.0
127.5°	1020.6	1019.5	1018.2	1017.5	1017.2	1016.9	1016.7	1016.4	1016.7	1016.9	1017.2
130°	1066.4	1065.6	1064.9	1064.3	1064.1	1063.7	1063.5	1063.3	1063.5	1063.7	1064.1
132.5°	1110.9	1109.9	1108.9	1108.2	1107.7	1107.2	1106.7	1106.2	1106.7	1107.2	1107.7
135°	1172.2	1171.2	1170.1	1169.7	1170.0	1170.2	1170.4	1170.8	1170.4	1170.2	1170.0
137.5°	1231.3	1230.1	1228.9	1228.3	1228.2	1228.0	1228.0	1227.9	1228.0	1228.0	1228.2
140°	1268.8	1268.3	1267.8	1267.3	1266.7	1266.2	1265.7	1265.1	1265.7	1266.2	1266.7
142.5°	1303.7	1303.4	1303.1	1302.4	1301.5	1300.5	1299.5	1298.5	1299.5	1300.5	1301.5
145°	1353.5	1353.5	1353.5	1353.1	1352.3	1351.5	1350.8	1350.0	1350.8	1351.5	1352.3
147.5°	1396.9	1397.1	1397.3	1396.8	1395.3	1393.8	1392.3	1390.8	1392.3	1393.8	1395.3
150°	1424.6	1424.8	1425.1	1424.7	1423.6	1422.5	1421.5	1420.5	1421.5	1422.5	1423.6
152.5°	1447.9	1448.3	1448.9	1448.7	1447.8	1447.0	1446.1	1445.3	1446.1	1447.0	1447.8
155°	1479.4	1480.2	1481.0	1481.2	1481.0	1480.7	1480.4	1480.2	1480.4	1480.7	1481.0
157.5°	1506.6	1507.4	1508.4	1508.9	1509.1	1509.3	1509.4	1509.6	1509.4	1509.3	1509.1
160°	1522.5	1522.7	1523.0	1523.6	1524.4	1525.2	1526.0	1526.8	1526.0	1525.2	1524.4
162.5°	1536.8	1537.1	1537.4	1538.0	1539.1	1540.0	1541.0	1542.1	1541.0	1540.0	1539.1
165°	1555.4	1555.4	1555.4	1556.1	1557.4	1558.8	1560.0	1561.4	1560.0	1558.8	1557.4
167.5°	1570.1	1570.3	1570.4	1571.1	1572.6	1573.9	1575.3	1576.7	1575.3	1573.9	1572.6
170°	1578.8	1578.5	1578.3	1578.9	1580.5	1582.1	1583.7	1585.3	1583.7	1582.1	1580.5
172.5°	1584.5	1584.3	1584.0	1584.7	1586.3	1587.9	1589.4	1591.0	1589.4	1587.9	1586.3
175°	1590.7	1590.5	1590.2	1590.9	1592.4	1594.0	1595.6	1597.2	1595.6	1594.0	1592.4
177.5°	1594.5	1594.0	1593.6	1594.2	1595.6	1597.1	1598.6	1600.1	1598.6	1597.1	1595.6
180°	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0
2.5°	729.8	727.5	724.3	719.9	716.2	712.3	711.2	709.8	712.7	710.3	709.6
5°	705.8	699.3	691.0	681.5	676.0	667.9	666.4	663.3	660.2	659.9	656.8
7.5°	680.5	671.0	660.1	650.4	641.4	632.6	626.9	625.7	621.1	618.5	615.4
10°	664.2	652.5	639.8	630.7	620.1	610.9	604.4	600.7	597.6	594.2	591.2
12.5°	645.0	632.6	622.1	612.1	599.7	592.6	582.0	575.6	575.0	575.0	567.0
15°	622.6	610.3	594.2	580.1	573.3	559.8	553.9	546.4	541.9	537.3	533.5
17.5°	597.1	581.7	569.2	552.9	540.0	529.2	521.4	517.0	510.1	503.5	498.8
20°	581.0	564.7	551.4	534.2	520.0	506.8	500.3	494.1	488.9	483.3	478.1
22.5°	564.7	547.6	531.5	514.7	501.5	487.5	481.3	472.9	467.9	464.8	459.5
25°	539.1	520.6	502.1	486.1	472.5	460.2	451.9	445.4	439.8	437.4	434.0
27.5°	511.2	492.8	475.0	456.8	441.4	432.5	425.8	420.9	417.7	414.5	412.9
30°	493.5	474.4	455.3	438.3	424.1	415.2	409.0	405.6	403.1	401.6	400.1
32.5°	475.5	456.6	436.5	421.0	408.4	400.4	395.7	392.3	391.1	390.5	390.0
35°	446.6	427.5	409.0	395.1	383.1	380.0	376.0	374.1	373.6	375.7	376.7
37.5°	418.7	400.9	383.9	370.5	362.6	358.1	356.7	356.8	359.0	360.9	363.1
40°	400.7	383.4	367.4	355.7	348.3	345.5	344.9	346.4	348.9	351.1	353.6
42.5°	383.2	366.1	351.6	340.6	335.5	333.0	333.4	334.9	338.3	341.0	344.7
45°	356.0	341.8	327.6	318.7	314.4	315.0	315.0	317.7	321.2	325.2	329.2
47.5°	330.4	316.1	304.4	296.9	294.7	294.1	295.9	299.5	304.4	309.3	315.0
50°	313.1	299.6	289.4	282.7	280.2	281.1	283.6	286.9	292.8	299.0	304.8
52.5°	295.6	283.3	273.9	267.6	265.9	267.5	270.0	275.4	280.5	287.2	294.2
55°	268.5	258.0	250.6	246.0	245.3	246.3	249.1	254.9	262.3	270.6	277.4
57.5°	241.4	232.7	225.9	222.7	223.0	223.9	228.4	235.4	243.3	252.2	260.9
60°	223.2	215.2	209.6	207.2	207.5	209.3	214.8	221.3	231.2	239.8	249.1
62.5°	205.9	198.8	193.5	191.3	190.9	195.0	200.3	207.0	216.9	226.5	236.5
65°	178.2	172.6	168.3	167.1	167.9	171.0	177.8	186.8	195.1	205.3	215.8
67.5°	151.0	146.5	143.5	144.1	145.2	149.7	155.4	163.1	172.5	183.1	193.5
70°	133.8	129.4	127.0	127.3	129.1	134.7	139.7	147.3	157.5	168.3	176.9
72.5°	116.1	113.2	111.0	112.3	114.1	118.0	124.1	131.8	140.8	150.8	159.9
75°	89.0	89.0	87.9	88.8	91.6	95.2	99.9	107.9	116.8	124.8	132.2
77.5°	66.1	65.4	66.2	67.3	68.9	73.3	78.6	84.4	91.0	99.1	105.2
80°	50.5	50.9	52.4	54.3	54.9	58.2	63.8	69.1	74.3	81.0	86.9
82.5°	37.9	38.3	39.1	41.4	42.1	45.7	49.3	54.5	59.3	63.8	68.7
85°	20.7	20.7	22.2	23.1	24.6	27.1	29.3	32.4	36.7	39.8	44.4
87.5°	10.9	11.5	12.8	13.8	15.0	16.6	17.4	20.4	21.8	23.3	25.7
90°	15.3	17.8	19.9	22.0	24.2	26.3	27.9	29.5	31.1	32.6	33.7
92.5°	15.7	16.8	18.9	21.1	23.2	25.3	26.9	28.5	30.1	31.7	32.6
95°	29.6	25.2	25.5	25.7	26.0	26.3	27.9	29.5	31.1	32.6	33.6
97.5°	162.1	150.0	120.4	90.8	61.2	31.5	31.7	31.8	32.0	32.2	32.4
100°	215.0	199.1	162.5	125.8	89.2	52.6	48.1	43.6	39.1	34.5	32.4
102.5°	273.0	272.4	267.6	262.8	258.0	253.3	204.5	155.9	107.2	58.5	34.2
105°	366.0	367.4	368.8	370.1	371.4	372.7	375.1	377.5	379.9	382.3	378.7
107.5°	456.2	457.5	459.3	461.1	462.9	464.7	465.9	467.1	468.3	469.4	470.5
110°	519.3	520.5	522.0	523.6	525.2	526.8	527.4	527.9	528.5	528.9	529.7



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	583.0	584.1	584.8	585.6	586.3	587.1	586.9	586.8	586.7	586.6	587.1
115°	674.5	674.9	674.5	674.3	674.1	673.8	674.3	674.9	675.3	675.9	676.2
117.5°	760.5	761.3	761.8	762.5	763.0	763.6	763.5	763.4	763.3	763.2	763.1
120°	817.8	818.2	817.9	817.7	817.4	817.1	817.7	818.2	818.7	819.3	819.3
122.5°	869.7	870.1	870.5	870.8	871.2	871.6	872.0	872.3	872.6	872.9	872.7
125°	948.0	948.2	947.8	947.2	946.7	946.2	947.0	947.8	948.6	949.4	949.9
127.5°	1017.5	1018.2	1019.5	1020.6	1021.8	1023.1	1022.9	1022.8	1022.6	1022.5	1022.2
130°	1064.3	1064.9	1065.6	1066.4	1067.2	1068.0	1068.3	1068.6	1068.8	1069.1	1069.2
132.5°	1108.2	1108.9	1109.9	1110.9	1111.9	1112.9	1113.2	1113.5	1113.7	1114.0	1114.0
135°	1169.7	1170.1	1171.2	1172.2	1173.3	1174.3	1174.9	1175.4	1175.9	1176.5	1177.0
137.5°	1228.3	1228.9	1230.1	1231.3	1232.4	1233.6	1234.1	1234.8	1235.3	1236.0	1236.1
140°	1267.3	1267.8	1268.3	1268.8	1269.4	1269.9	1270.7	1271.5	1272.3	1273.1	1273.6
142.5°	1302.4	1303.1	1303.4	1303.7	1304.0	1304.3	1304.9	1305.5	1306.1	1306.6	1306.9
145°	1353.1	1353.5	1353.5	1353.5	1353.5	1353.5	1353.8	1354.1	1354.3	1354.6	1355.0
147.5°	1396.8	1397.3	1397.1	1396.9	1396.5	1396.3	1396.5	1396.7	1396.9	1397.2	1397.4
150°	1424.7	1425.1	1424.8	1424.6	1424.3	1424.0	1424.0	1424.0	1424.0	1424.0	1424.2
152.5°	1448.7	1448.9	1448.3	1447.9	1447.4	1446.9	1447.4	1447.8	1448.2	1448.7	1448.7
155°	1481.2	1481.0	1480.2	1479.4	1478.6	1477.7	1478.8	1479.9	1481.0	1482.0	1482.2
157.5°	1508.9	1508.4	1507.4	1506.6	1505.7	1504.8	1506.2	1507.5	1508.9	1510.3	1510.3
160°	1523.6	1523.0	1522.7	1522.5	1522.3	1521.9	1523.6	1525.2	1526.8	1528.4	1528.4
162.5°	1538.0	1537.4	1537.1	1536.8	1536.6	1536.3	1537.9	1539.5	1541.1	1542.7	1542.5
165°	1556.1	1555.4	1555.4	1555.4	1555.4	1555.4	1557.5	1559.6	1561.8	1563.9	1563.8
167.5°	1571.1	1570.4	1570.3	1570.1	1569.9	1569.8	1572.1	1574.5	1576.8	1579.1	1579.0
170°	1578.9	1578.3	1578.5	1578.8	1579.1	1579.3	1581.4	1583.6	1585.7	1587.9	1587.5
172.5°	1584.7	1584.0	1584.3	1584.5	1584.8	1585.1	1587.1	1589.3	1591.4	1593.6	1593.2
175°	1590.9	1590.2	1590.5	1590.7	1591.0	1591.3	1593.6	1596.0	1598.5	1600.8	1600.4
177.5°	1594.2	1593.6	1594.0	1594.5	1594.9	1595.3	1597.0	1598.7	1600.4	1602.1	1601.7
180°	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0
2.5°	709.0	708.5	706.8	706.5	706.8	708.5	709.0	709.6	710.3	712.7	709.8
5°	655.0	653.5	652.5	655.9	652.5	653.5	655.0	656.8	659.9	660.2	663.3
7.5°	614.3	613.0	610.3	609.4	610.3	613.0	614.3	615.4	618.5	621.1	625.7
10°	588.1	586.8	584.4	583.8	584.4	586.8	588.1	591.2	594.2	597.6	600.7
12.5°	562.9	560.5	560.0	560.6	560.0	560.5	562.9	567.0	575.0	575.0	575.6
15°	529.5	528.3	524.9	525.9	524.9	528.3	529.5	533.5	537.3	541.9	546.4
17.5°	496.6	495.1	491.0	494.6	491.0	495.1	496.6	498.8	503.5	510.1	517.0
20°	475.9	473.4	471.3	471.0	471.3	473.4	475.9	478.1	483.3	488.9	494.1
22.5°	456.1	453.9	453.8	451.7	453.8	453.9	456.1	459.5	464.8	467.9	472.9
25°	431.5	429.4	428.7	427.2	428.7	429.4	431.5	434.0	437.4	439.8	445.4
27.5°	412.6	411.5	410.4	410.9	410.4	411.5	412.6	412.9	414.5	417.7	420.9
30°	401.0	400.7	400.1	400.1	400.1	400.7	401.0	400.1	401.6	403.1	405.6
32.5°	391.4	391.3	391.7	391.7	391.7	391.3	391.4	390.0	390.5	391.1	392.3
35°	377.9	378.8	379.5	378.5	379.5	378.8	377.9	376.7	375.7	373.6	374.1
37.5°	365.7	366.6	367.5	368.5	367.5	366.6	365.7	363.1	360.9	359.0	356.8
40°	356.3	358.5	359.1	360.6	359.1	358.5	356.3	353.6	351.1	348.9	346.4
42.5°	347.5	349.8	351.4	351.7	351.4	349.8	347.5	344.7	341.0	338.3	334.9
45°	333.8	336.3	338.4	338.4	338.4	336.3	333.8	329.2	325.2	321.2	317.7
47.5°	319.7	323.3	325.4	326.0	325.4	323.3	319.7	315.0	309.3	304.4	299.5
50°	310.1	314.4	316.6	318.1	316.6	314.4	310.1	304.8	299.0	292.8	286.9
52.5°	300.7	305.0	307.9	308.7	307.9	305.0	300.7	294.2	287.2	280.5	275.4
55°	284.5	290.7	294.1	295.2	294.1	290.7	284.5	277.4	270.6	262.3	254.9
57.5°	269.2	274.9	278.8	279.7	278.8	274.9	269.2	260.9	252.2	243.3	235.4
60°	257.4	263.6	268.5	269.4	268.5	263.6	257.4	249.1	239.8	231.2	221.3
62.5°	245.3	251.7	256.1	258.6	256.1	251.7	245.3	236.5	226.5	216.9	207.0
65°	224.4	230.8	235.2	236.1	235.2	230.8	224.4	215.8	205.3	195.1	186.8
67.5°	201.6	208.0	210.9	212.7	210.9	208.0	201.6	193.5	183.1	172.5	163.1
70°	185.5	190.8	193.8	195.4	193.8	190.8	185.5	176.9	168.3	157.5	147.3
72.5°	167.3	172.8	176.3	176.7	176.3	172.8	167.3	159.9	150.8	140.8	131.8
75°	139.3	144.3	146.1	146.1	146.1	144.3	139.3	132.2	124.8	116.8	107.9
77.5°	110.3	112.8	115.2	115.7	115.2	112.8	110.3	105.2	99.1	91.0	84.4
80°	91.6	93.1	94.9	94.9	94.9	93.1	91.6	86.9	81.0	74.3	69.1
82.5°	72.3	73.6	75.4	75.2	75.4	73.6	72.3	68.7	63.8	59.3	54.5
85°	43.7	46.6	46.3	45.6	46.3	46.6	43.7	44.4	39.8	36.7	32.4
87.5°	26.5	26.9	27.8	28.4	27.8	26.9	26.5	25.7	23.3	21.8	20.4
90°	34.2	34.8	35.3	35.8	35.3	34.8	34.2	33.7	32.6	31.1	29.5
92.5°	32.6	32.8	32.9	33.0	32.9	32.8	32.6	32.6	31.7	30.1	28.5
95°	33.8	34.1	34.4	34.6	34.4	34.1	33.8	33.6	32.6	31.1	29.5
97.5°	32.6	33.0	33.2	33.4	33.2	33.0	32.6	32.4	32.2	32.0	31.8
100°	32.6	33.0	33.2	33.4	33.2	33.0	32.6	32.4	34.5	39.1	43.6
102.5°	34.2	34.3	34.4	34.4	34.4	34.3	34.2	34.2	58.5	107.2	155.9
105°	369.2	359.6	350.1	340.5	350.1	359.6	369.2	378.7	382.3	379.9	377.5
107.5°	471.5	472.5	473.5	474.5	473.5	472.5	471.5	470.5	469.4	468.3	467.1
110°	530.4	531.2	532.0	532.8	532.0	531.2	530.4	529.7	528.9	528.5	527.9



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	588.1	589.1	590.1	591.1	590.1	589.1	588.1	587.1	586.6	586.7	586.8
115°	676.2	676.2	676.2	676.2	676.2	676.2	676.2	676.2	675.9	675.3	674.9
117.5°	763.0	762.9	762.8	762.6	762.8	762.9	763.0	763.1	763.2	763.3	763.4
120°	818.7	818.2	817.7	817.1	817.7	818.2	818.7	819.3	819.3	818.7	818.2
122.5°	872.3	871.7	871.2	870.7	871.2	871.7	872.3	872.7	872.9	872.6	872.3
125°	950.1	950.4	950.7	950.9	950.7	950.4	950.1	949.9	949.4	948.6	947.8
127.5°	1022.1	1021.8	1021.6	1021.4	1021.6	1021.8	1022.1	1022.2	1022.5	1022.6	1022.8
130°	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2	1069.1	1068.8	1068.6
132.5°	1113.8	1113.6	1113.4	1113.2	1113.4	1113.6	1113.8	1114.0	1114.0	1113.7	1113.5
135°	1177.5	1178.1	1178.6	1179.1	1178.6	1178.1	1177.5	1177.0	1176.5	1175.9	1175.4
137.5°	1236.0	1235.8	1235.6	1235.5	1235.6	1235.8	1236.0	1236.1	1236.0	1235.3	1234.8
140°	1273.9	1274.1	1274.4	1274.7	1274.4	1274.1	1273.9	1273.6	1273.1	1272.3	1271.5
142.5°	1307.0	1307.1	1307.1	1307.2	1307.1	1307.1	1307.0	1306.9	1306.6	1306.1	1305.5
145°	1355.5	1356.1	1356.6	1357.1	1356.6	1356.1	1355.5	1355.0	1354.6	1354.3	1354.1
147.5°	1397.6	1397.9	1398.2	1398.4	1398.2	1397.9	1397.6	1397.4	1397.2	1396.9	1396.7
150°	1424.4	1424.7	1425.0	1425.2	1425.0	1424.7	1424.4	1424.2	1424.0	1424.0	1424.0
152.5°	1448.6	1448.4	1448.3	1448.1	1448.3	1448.4	1448.6	1448.7	1448.7	1448.2	1447.8
155°	1481.4	1480.6	1479.8	1479.0	1479.8	1480.6	1481.4	1482.2	1482.0	1481.0	1479.9
157.5°	1508.9	1507.5	1506.2	1504.8	1506.2	1507.5	1508.9	1510.3	1510.3	1508.9	1507.5
160°	1526.8	1525.2	1523.6	1521.9	1523.6	1525.2	1526.8	1528.4	1528.4	1526.8	1525.2
162.5°	1540.8	1539.0	1537.2	1535.3	1537.2	1539.0	1540.8	1542.5	1542.7	1541.1	1539.5
165°	1561.4	1559.0	1556.6	1554.3	1556.6	1559.0	1561.4	1563.8	1563.9	1561.8	1559.6
167.5°	1576.3	1573.7	1571.0	1568.4	1571.0	1573.7	1576.3	1579.0	1579.1	1576.8	1574.5
170°	1584.9	1582.2	1579.6	1576.9	1579.6	1582.2	1584.9	1587.5	1587.9	1585.7	1583.6
172.5°	1590.3	1587.5	1584.6	1581.7	1584.6	1587.5	1590.3	1593.2	1593.6	1591.4	1589.3
175°	1597.2	1594.0	1590.9	1587.7	1590.9	1594.0	1597.2	1600.4	1600.8	1598.5	1596.0
177.5°	1599.2	1596.6	1594.0	1591.5	1594.0	1596.6	1599.2	1601.7	1602.1	1600.4	1598.7
180°	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0
2.5°	711.2	712.3	716.2	719.9	724.3	727.5	729.8	732.2	737.4	741.6	745.5
5°	666.4	667.9	676.0	681.5	691.0	699.3	705.8	712.9	721.3	732.6	743.1
7.5°	626.9	632.6	641.4	650.4	660.1	671.0	680.5	691.2	705.5	721.2	737.4
10°	604.4	610.9	620.1	630.7	639.8	652.5	664.2	676.8	693.2	712.3	731.4
12.5°	582.0	592.6	599.7	612.1	622.1	632.6	645.0	661.6	680.6	700.7	723.7
15°	553.9	559.8	573.3	580.1	594.2	610.3	622.6	639.3	657.7	684.3	710.1
17.5°	521.4	529.2	540.0	552.9	569.2	581.7	597.1	614.2	637.5	663.8	696.2
20°	500.3	506.8	520.0	534.2	551.4	564.7	581.0	597.6	621.7	649.7	683.7
22.5°	481.3	487.5	501.5	514.7	531.5	547.6	564.7	584.1	607.1	636.7	671.3
25°	451.9	460.2	472.5	486.1	502.1	520.6	539.1	556.3	581.0	612.1	649.1
27.5°	425.8	432.5	441.4	456.8	475.0	492.8	511.2	532.9	556.6	589.5	627.9
30°	409.0	415.2	424.1	438.3	455.3	474.4	493.5	514.4	539.1	571.7	610.9
32.5°	395.7	400.4	408.4	421.0	436.5	456.6	475.5	497.2	523.1	555.2	593.4
35°	376.0	380.0	383.1	395.1	409.0	427.5	446.6	469.8	494.7	525.2	563.4
37.5°	356.7	358.1	362.6	370.5	383.9	400.9	418.7	441.4	467.0	498.0	532.5
40°	344.9	345.5	348.3	355.7	367.4	383.4	400.7	423.2	447.5	476.8	511.0
42.5°	333.4	333.0	335.5	340.6	351.6	366.1	383.2	403.7	428.1	455.1	487.4
45°	315.0	315.0	314.4	318.7	327.6	341.8	356.0	375.7	396.1	422.6	449.7
47.5°	295.9	294.1	294.7	296.9	304.4	316.1	330.4	346.6	364.5	387.0	410.7
50°	283.6	281.1	280.2	282.7	289.4	299.6	313.1	327.3	344.3	364.0	384.4
52.5°	270.0	267.5	265.9	267.6	273.9	283.3	295.6	308.1	323.3	339.4	357.0
55°	249.1	246.3	245.3	246.0	250.6	258.0	268.5	279.9	291.3	304.5	316.9
57.5°	228.4	223.9	223.0	222.7	225.9	232.7	241.4	251.3	259.6	267.6	280.7
60°	214.8	209.3	207.5	207.2	209.6	215.2	223.2	233.0	238.8	244.4	255.8
62.5°	200.3	195.0	190.9	191.3	193.5	198.8	205.9	213.0	216.9	223.0	230.7
65°	177.8	171.0	167.9	167.1	168.3	172.6	178.2	182.8	187.1	189.6	196.9
67.5°	155.4	149.7	145.2	144.1	143.5	146.5	151.0	153.8	156.9	159.1	163.4
70°	139.7	134.7	129.1	127.3	127.0	129.4	133.8	134.1	138.4	139.3	143.9
72.5°	124.1	118.0	114.1	112.3	111.0	113.2	116.1	116.8	119.1	120.8	123.3
75°	99.9	95.2	91.6	88.8	87.9	89.0	89.0	90.6	92.1	93.1	95.9
77.5°	78.6	73.3	68.9	67.3	66.2	65.4	66.1	67.0	66.3	67.9	68.5
80°	63.8	58.2	54.9	54.3	52.4	50.9	50.5	51.5	50.2	50.9	52.7
82.5°	49.3	45.7	42.1	41.4	39.1	38.3	37.9	37.4	37.4	37.3	37.6
85°	29.3	27.1	24.6	23.1	22.2	20.7	20.7	20.0	19.4	18.8	19.1
87.5°	17.4	16.6	15.0	13.8	12.8	11.5	10.9	9.6	8.8	7.9	7.1
90°	27.9	26.3	24.2	22.0	19.9	17.8	15.3	12.4	9.4	6.5	3.6
92.5°	26.9	25.3	23.2	21.1	18.9	16.8	15.7	15.5	15.4	15.2	15.1
95°	27.9	26.3	26.0	25.7	25.5	25.2	29.6	38.7	47.7	56.6	65.7
97.5°	31.7	31.5	61.2	90.8	120.4	150.0	162.1	156.5	150.8	145.1	139.5
100°	48.1	52.6	89.2	125.8	162.5	199.1	215.0	210.2	205.5	200.7	195.9
102.5°	204.5	253.3	258.0	262.8	267.6	272.4	273.0	269.5	266.0	262.5	259.0
105°	375.1	372.7	371.4	370.1	368.8	367.4	366.0	364.4	362.7	361.2	359.6
107.5°	465.9	464.7	462.9	461.1	459.3	457.5	456.2	455.4	454.6	453.8	453.0
110°	527.4	526.8	525.2	523.6	522.0	520.5	519.3	518.5	517.7	516.9	516.1



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	586.9	587.1	586.3	585.6	584.8	584.1	583.0	581.5	580.1	578.7	577.3
115°	674.3	673.8	674.1	674.3	674.5	674.9	674.5	673.8	673.0	672.2	671.4
117.5°	763.5	763.6	763.0	762.5	761.8	761.3	760.5	759.4	758.4	757.2	756.2
120°	817.7	817.1	817.4	817.7	817.9	818.2	817.8	816.7	815.7	814.6	813.6
122.5°	872.0	871.6	871.2	870.8	870.5	870.1	869.7	868.9	868.3	867.7	867.0
125°	947.0	946.2	946.7	947.2	947.8	948.2	948.0	947.0	945.9	944.8	943.8
127.5°	1022.9	1023.1	1021.8	1020.6	1019.5	1018.2	1017.5	1017.2	1016.9	1016.7	1016.4
130°	1068.3	1068.0	1067.2	1066.4	1065.6	1064.9	1064.3	1064.1	1063.7	1063.5	1063.3
132.5°	1113.2	1112.9	1111.9	1110.9	1109.9	1108.9	1108.2	1107.7	1107.2	1106.7	1106.2
135°	1174.9	1174.3	1173.3	1172.2	1171.2	1170.1	1169.7	1170.0	1170.2	1170.4	1170.8
137.5°	1234.1	1233.6	1232.4	1231.3	1230.1	1228.9	1228.3	1228.2	1228.0	1228.0	1227.9
140°	1270.7	1269.9	1269.4	1268.8	1268.3	1267.8	1267.3	1266.7	1266.2	1265.7	1265.1
142.5°	1304.9	1304.3	1304.0	1303.7	1303.4	1303.1	1302.4	1301.5	1300.5	1299.5	1298.5
145°	1353.8	1353.5	1353.5	1353.5	1353.5	1353.5	1353.1	1352.3	1351.5	1350.8	1350.0
147.5°	1396.5	1396.3	1396.5	1396.9	1397.1	1397.3	1396.8	1395.3	1393.8	1392.3	1390.8
150°	1424.0	1424.0	1424.3	1424.6	1424.8	1425.1	1424.7	1423.6	1422.5	1421.5	1420.5
152.5°	1447.4	1446.9	1447.4	1447.9	1448.3	1448.9	1448.7	1447.8	1447.0	1446.1	1445.3
155°	1478.8	1477.7	1478.6	1479.4	1480.2	1481.0	1481.2	1481.0	1480.7	1480.4	1480.2
157.5°	1506.2	1504.8	1505.7	1506.6	1507.4	1508.4	1508.9	1509.1	1509.3	1509.4	1509.6
160°	1523.6	1521.9	1522.3	1522.5	1522.7	1523.0	1523.6	1524.4	1525.2	1526.0	1526.8
162.5°	1537.9	1536.3	1536.6	1536.8	1537.1	1537.4	1538.0	1539.1	1540.0	1541.0	1542.1
165°	1557.5	1555.4	1555.4	1555.4	1555.4	1555.4	1556.1	1557.4	1558.8	1560.0	1561.4
167.5°	1572.1	1569.8	1569.9	1570.1	1570.3	1570.4	1571.1	1572.6	1573.9	1575.3	1576.7
170°	1581.4	1579.3	1579.1	1578.8	1578.5	1578.3	1578.9	1580.5	1582.1	1583.7	1585.3
172.5°	1587.1	1585.1	1584.8	1584.5	1584.3	1584.0	1584.7	1586.3	1587.9	1589.4	1591.0
175°	1593.6	1591.3	1591.0	1590.7	1590.5	1590.2	1590.9	1592.4	1594.0	1595.6	1597.2
177.5°	1597.0	1595.3	1594.9	1594.5	1594.0	1593.6	1594.2	1595.6	1597.1	1598.6	1600.1
180°	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0
2.5°	749.0	751.5	754.6	760.1	762.1	764.5	767.9	767.7	768.7	772.4	780.3
5°	751.8	761.3	770.6	781.6	793.4	801.1	811.6	818.0	824.5	832.8	847.0
7.5°	752.9	768.0	785.0	804.5	821.8	841.8	857.4	872.0	885.3	902.9	919.7
10°	751.1	771.5	793.4	818.0	844.2	866.4	886.5	909.3	928.7	949.9	969.1
12.5°	747.9	772.5	801.8	829.3	860.0	892.8	917.7	940.8	966.6	991.1	1020.6
15°	740.7	774.3	808.5	844.9	885.8	923.8	959.8	989.7	1017.5	1054.2	1092.7
17.5°	731.4	767.6	810.8	854.8	897.7	941.0	985.6	1030.5	1065.6	1111.1	1141.3
20°	722.8	764.7	809.1	861.5	904.4	958.3	1002.7	1046.1	1094.2	1139.5	1175.6
22.5°	710.7	756.5	803.7	855.8	912.2	966.1	1017.5	1064.6	1112.7	1162.0	1205.6
25°	695.4	737.0	792.7	851.9	908.0	966.6	1025.5	1084.7	1136.4	1188.5	1229.2
27.5°	669.2	721.8	773.7	834.8	897.1	963.4	1026.4	1088.3	1142.5	1185.3	1210.6
30°	655.9	701.5	758.0	819.3	886.8	958.0	1023.6	1084.3	1134.9	1169.1	1179.2
32.5°	636.2	683.3	738.5	802.0	873.5	946.6	1014.9	1072.2	1114.4	1132.3	1120.1
35°	606.9	649.4	705.2	770.2	844.5	922.5	990.0	1038.4	1060.0	1043.1	1000.8
37.5°	571.7	613.9	669.9	733.8	810.7	889.9	951.0	985.8	978.7	936.5	873.5
40°	547.1	586.5	639.8	708.9	783.8	863.3	917.0	935.8	916.1	855.6	788.8
42.5°	519.8	558.2	611.7	678.3	757.6	831.0	877.7	879.3	846.3	774.0	706.9
45°	478.1	514.8	565.3	634.6	708.0	777.1	807.9	792.7	731.7	662.0	594.5
47.5°	437.0	468.7	518.6	584.4	654.0	712.2	727.5	700.3	635.3	567.6	505.0
50°	406.9	438.9	485.8	548.7	615.8	666.1	673.4	637.4	573.6	505.5	456.5
52.5°	378.0	409.8	455.0	513.1	574.6	620.0	620.2	578.5	514.9	454.2	408.6
55°	335.6	364.3	405.0	457.1	512.0	547.4	538.8	495.6	440.5	387.8	348.0
57.5°	294.9	319.8	357.3	400.8	449.1	478.3	464.0	422.5	373.2	328.5	298.3
60°	268.5	292.2	324.2	365.3	405.9	428.7	415.2	377.6	332.2	296.2	270.0
62.5°	242.8	262.8	293.7	329.2	366.9	383.9	371.8	334.7	295.6	262.9	241.6
65°	206.5	222.8	247.5	278.1	305.5	320.0	309.7	275.2	245.3	221.9	204.9
67.5°	172.6	185.4	204.1	228.5	251.8	259.7	250.4	226.3	201.1	182.3	170.3
70°	149.2	161.2	176.9	195.7	216.0	224.4	215.2	196.1	175.4	158.1	146.4
72.5°	128.7	138.0	151.3	167.4	183.2	191.6	185.3	166.9	149.5	136.7	126.7
75°	98.0	106.0	115.3	126.7	139.0	144.6	139.0	126.4	114.3	104.8	97.7
77.5°	71.3	75.6	82.7	91.3	98.9	103.2	98.4	89.8	82.5	76.0	72.4
80°	54.3	57.4	62.3	69.1	74.3	78.3	75.2	68.1	62.3	57.9	56.4
82.5°	39.5	41.5	44.8	49.8	53.3	55.4	54.0	48.9	46.5	42.6	41.1
85°	19.4	20.7	22.8	24.3	27.4	27.7	28.0	25.9	23.8	22.8	21.5
87.5°	7.9	8.8	10.1	11.4	12.9	13.6	13.8	14.2	13.6	13.7	13.1
90°	6.5	9.4	12.4	15.3	17.8	19.9	22.0	24.2	26.3	27.9	29.5
92.5°	15.2	15.4	15.5	15.7	16.8	18.9	21.1	23.2	25.3	26.9	28.5
95°	56.6	47.7	38.7	29.6	25.2	25.5	25.7	26.0	26.3	27.9	29.5
97.5°	145.1	150.8	156.5	162.1	150.0	120.4	90.8	61.2	31.5	31.7	31.8
100°	200.7	205.5	210.2	215.0	199.1	162.5	125.8	89.2	52.6	48.1	43.6
102.5°	262.5	266.0	269.5	273.0	272.4	267.6	262.8	258.0	253.3	204.5	155.9
105°	361.2	362.7	364.4	366.0	367.4	368.8	370.1	371.4	372.7	375.1	377.5
107.5°	453.8	454.6	455.4	456.2	457.5	459.3	461.1	462.9	464.7	465.9	467.1
110°	516.9	517.7	518.5	519.3	520.5	522.0	523.6	525.2	526.8	527.4	527.9



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	578.7	580.1	581.5	583.0	584.1	584.8	585.6	586.3	587.1	586.9	586.8
115°	672.2	673.0	673.8	674.5	674.9	674.5	674.3	674.1	673.8	674.3	674.9
117.5°	757.2	758.4	759.4	760.5	761.3	761.8	762.5	763.0	763.6	763.5	763.4
120°	814.6	815.7	816.7	817.8	818.2	817.9	817.7	817.4	817.1	817.7	818.2
122.5°	867.7	868.3	868.9	869.7	870.1	870.5	870.8	871.2	871.6	872.0	872.3
125°	944.8	945.9	947.0	948.0	948.2	947.8	947.2	946.7	946.2	947.0	947.8
127.5°	1016.7	1016.9	1017.2	1017.5	1018.2	1019.5	1020.6	1021.8	1023.1	1022.9	1022.8
130°	1063.5	1063.7	1064.1	1064.3	1064.9	1065.6	1066.4	1067.2	1068.0	1068.3	1068.6
132.5°	1106.7	1107.2	1107.7	1108.2	1108.9	1109.9	1110.9	1111.9	1112.9	1113.2	1113.5
135°	1170.4	1170.2	1170.0	1169.7	1170.1	1171.2	1172.2	1173.3	1174.3	1174.9	1175.4
137.5°	1228.0	1228.0	1228.2	1228.3	1228.9	1230.1	1231.3	1232.4	1233.6	1234.1	1234.8
140°	1265.7	1266.2	1266.7	1267.3	1267.8	1268.3	1268.8	1269.4	1269.9	1270.7	1271.5
142.5°	1299.5	1300.5	1301.5	1302.4	1303.1	1303.4	1303.7	1304.0	1304.3	1304.9	1305.5
145°	1350.8	1351.5	1352.3	1353.1	1353.5	1353.5	1353.5	1353.5	1353.5	1353.8	1354.1
147.5°	1392.3	1393.8	1395.3	1396.8	1397.3	1397.1	1396.9	1396.5	1396.3	1396.5	1396.7
150°	1421.5	1422.5	1423.6	1424.7	1425.1	1424.8	1424.6	1424.3	1424.0	1424.0	1424.0
152.5°	1446.1	1447.0	1447.8	1448.7	1448.9	1448.3	1447.9	1447.4	1446.9	1447.4	1447.8
155°	1480.4	1480.7	1481.0	1481.2	1481.0	1480.2	1479.4	1478.6	1477.7	1478.8	1479.9
157.5°	1509.4	1509.3	1509.1	1508.9	1508.4	1507.4	1506.6	1505.7	1504.8	1506.2	1507.5
160°	1526.0	1525.2	1524.4	1523.6	1523.0	1522.7	1522.5	1522.3	1521.9	1523.6	1525.2
162.5°	1541.0	1540.0	1539.1	1538.0	1537.4	1537.1	1536.8	1536.6	1536.3	1537.9	1539.5
165°	1560.0	1558.8	1557.4	1556.1	1555.4	1555.4	1555.4	1555.4	1555.4	1555.5	1559.6
167.5°	1575.3	1573.9	1572.6	1571.1	1570.4	1570.3	1570.1	1569.9	1569.8	1572.1	1574.5
170°	1583.7	1582.1	1580.5	1578.9	1578.3	1578.5	1578.8	1579.1	1579.3	1581.4	1583.6
172.5°	1589.4	1587.9	1586.3	1584.7	1584.0	1584.3	1584.5	1584.8	1585.1	1587.1	1589.3
175°	1595.6	1594.0	1592.4	1590.9	1590.2	1590.5	1590.7	1591.0	1591.3	1593.6	1596.0
177.5°	1598.6	1597.1	1595.6	1594.2	1593.6	1594.0	1594.5	1594.9	1595.3	1597.0	1598.7
180°	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	744.0	744.0	744.0	744.0	744.0	744.0	744.0
2.5°	784.3	784.7	787.0	788.7	789.2	791.6	791.9
5°	853.2	858.4	868.5	869.5	871.0	879.1	872.9
7.5°	933.9	947.2	956.1	963.9	966.8	970.3	969.6
10°	985.7	1005.4	1015.3	1031.0	1031.7	1035.6	1033.2
12.5°	1037.8	1060.7	1078.6	1081.6	1094.7	1096.8	1100.3
15°	1111.4	1135.8	1160.8	1169.7	1187.9	1192.2	1199.0
17.5°	1180.7	1205.6	1223.1	1246.3	1253.7	1263.7	1257.0
20°	1218.7	1245.9	1268.0	1286.2	1294.0	1299.5	1298.9
22.5°	1241.7	1269.0	1287.0	1300.8	1308.0	1310.3	1310.2
25°	1256.0	1271.8	1277.3	1282.5	1274.5	1271.8	1273.0
27.5°	1216.1	1212.0	1197.5	1178.5	1158.8	1143.1	1134.6
30°	1161.1	1137.0	1115.2	1077.0	1057.2	1045.5	1035.0
32.5°	1083.2	1045.0	1003.0	968.0	945.5	928.1	925.5
35°	949.7	892.3	840.8	798.0	775.8	757.0	752.7
37.5°	807.4	747.8	701.5	663.7	639.8	626.6	614.3
40°	712.9	661.8	616.2	584.1	565.9	556.3	548.7
42.5°	640.2	593.4	548.1	523.6	507.2	501.4	496.9
45°	539.7	496.2	464.8	446.3	436.7	426.9	422.2
47.5°	459.2	423.9	403.1	387.5	377.2	371.4	368.4
50°	413.6	384.7	366.1	354.2	344.9	340.2	337.8
52.5°	373.2	349.4	333.9	324.3	318.1	314.7	313.6
55°	321.5	303.3	293.4	285.1	280.5	277.4	276.2
57.5°	279.4	265.5	257.5	250.6	248.8	246.2	245.3
60°	251.8	241.1	234.2	229.7	228.1	225.0	225.6
62.5°	227.4	218.6	212.8	210.2	208.1	205.5	206.4
65°	192.3	185.8	182.8	180.3	177.8	176.3	177.5
67.5°	161.4	156.9	152.7	151.3	150.1	149.9	148.5
70°	141.2	137.4	133.8	132.8	132.8	131.6	131.3
72.5°	121.7	119.0	116.5	115.8	114.9	115.3	114.1
75°	94.0	91.8	90.9	90.0	89.7	89.7	88.8
77.5°	69.5	67.9	66.4	66.4	65.3	64.9	64.7
80°	52.7	52.1	50.9	50.9	50.2	50.5	49.9
82.5°	39.6	38.7	38.5	38.0	37.2	37.2	36.6
85°	21.2	20.4	20.0	19.1	18.5	19.1	18.5
87.5°	13.6	13.7	13.6	13.2	13.2	13.2	12.6
90°	31.1	32.6	33.7	34.2	34.8	35.3	35.8
92.5°	30.1	31.7	32.6	32.6	32.8	32.9	33.0
95°	31.1	32.6	33.6	33.8	34.1	34.4	34.6
97.5°	32.0	32.2	32.4	32.6	33.0	33.2	33.4
100°	39.1	34.5	32.4	32.6	33.0	33.2	33.4
102.5°	107.2	58.5	34.2	34.2	34.3	34.4	34.4
105°	379.9	382.3	378.7	369.2	359.6	350.1	340.5
107.5°	468.3	469.4	470.5	471.5	472.5	473.5	474.5
110°	528.5	528.9	529.7	530.4	531.2	532.0	532.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	586.7	586.6	587.1	588.1	589.1	590.1	591.1
115°	675.3	675.9	676.2	676.2	676.2	676.2	676.2
117.5°	763.3	763.2	763.1	763.0	762.9	762.8	762.6
120°	818.7	819.3	819.3	818.7	818.2	817.7	817.1
122.5°	872.6	872.9	872.7	872.3	871.7	871.2	870.7
125°	948.6	949.4	949.9	950.1	950.4	950.7	950.9
127.5°	1022.6	1022.5	1022.2	1022.1	1021.8	1021.6	1021.4
130°	1068.8	1069.1	1069.2	1069.2	1069.2	1069.2	1069.2
132.5°	1113.7	1114.0	1114.0	1113.8	1113.6	1113.4	1113.2
135°	1175.9	1176.5	1177.0	1177.5	1178.1	1178.6	1179.1
137.5°	1235.3	1236.0	1236.1	1236.0	1235.8	1235.6	1235.5
140°	1272.3	1273.1	1273.6	1273.9	1274.1	1274.4	1274.7
142.5°	1306.1	1306.6	1306.9	1307.0	1307.1	1307.1	1307.2
145°	1354.3	1354.6	1355.0	1355.5	1356.1	1356.6	1357.1
147.5°	1396.9	1397.2	1397.4	1397.6	1397.9	1398.2	1398.4
150°	1424.0	1424.0	1424.2	1424.4	1424.7	1425.0	1425.2
152.5°	1448.2	1448.7	1448.7	1448.6	1448.4	1448.3	1448.1
155°	1481.0	1482.0	1482.2	1481.4	1480.6	1479.8	1479.0
157.5°	1508.9	1510.3	1510.3	1508.9	1507.5	1506.2	1504.8
160°	1526.8	1528.4	1528.4	1526.8	1525.2	1523.6	1521.9
162.5°	1541.1	1542.7	1542.5	1540.8	1539.0	1537.2	1535.3
165°	1561.8	1563.9	1563.8	1561.4	1559.0	1556.6	1554.3
167.5°	1576.8	1579.1	1579.0	1576.3	1573.7	1571.0	1568.4
170°	1585.7	1587.9	1587.5	1584.9	1582.2	1579.6	1576.9
172.5°	1591.4	1593.6	1593.2	1590.3	1587.5	1584.6	1581.7
175°	1598.5	1600.8	1600.4	1597.2	1594.0	1590.9	1587.7
177.5°	1600.4	1602.1	1601.7	1599.2	1596.6	1594.0	1591.5
180°	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2

(END OF REPORT)