

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: P332114-927

Luminaire Tested: **S123DIW-S340D1535U927-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332114-927
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: S123DIW-S340D1535U927-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1535 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6015.3 lumens
Efficiency: N/A
Efficacy: 112.6 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

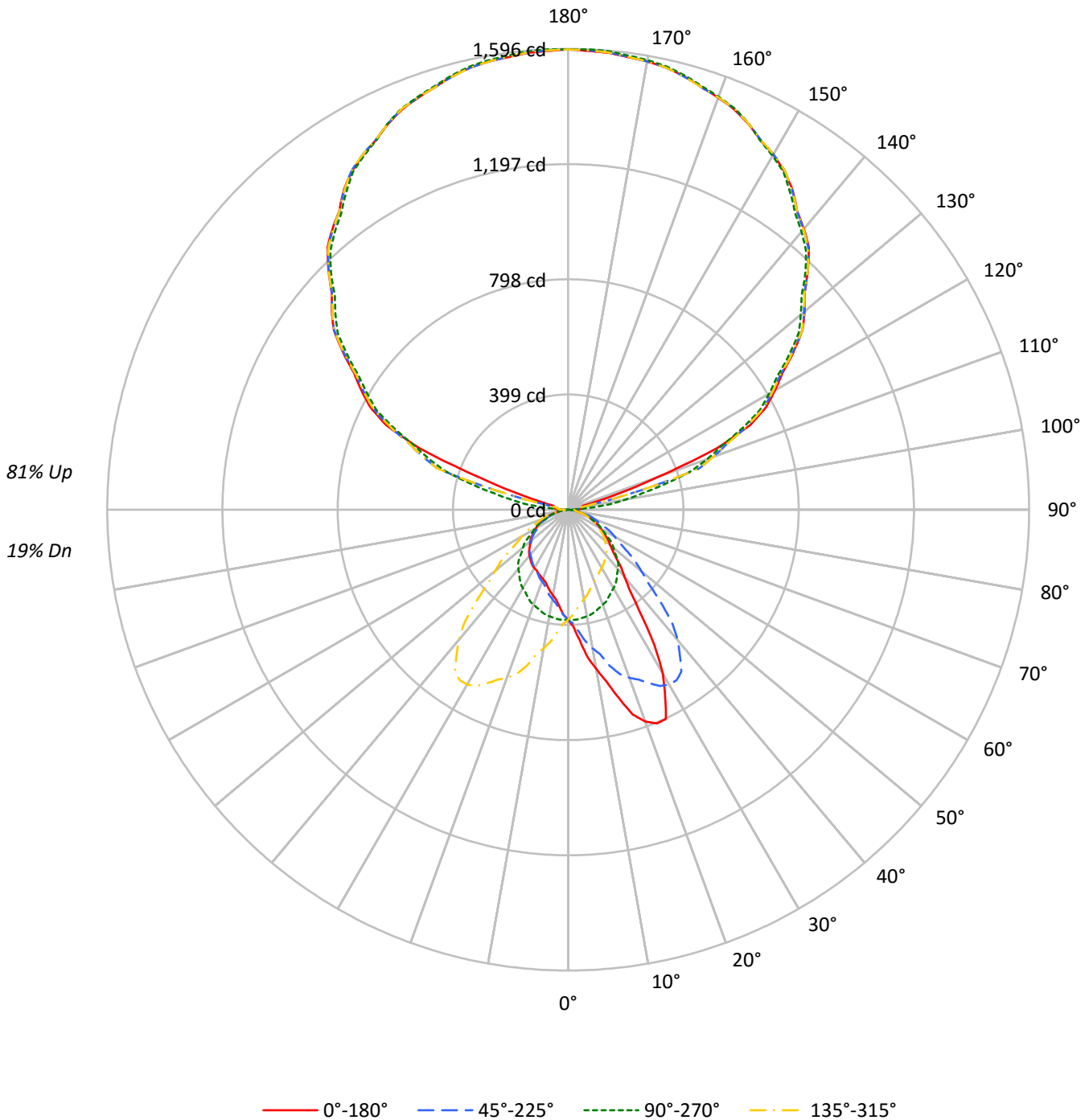
Input Watts (W): 53.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100	100	100	88	88	88	88	66	66	66	46	46	46	28	28	28	19
1	91	87	83	80	80	77	74	71	58	56	54	41	39	38	25	24	24	16
2	83	76	70	65	73	67	62	58	51	48	45	36	34	32	22	21	20	14
3	76	67	60	54	66	59	53	49	45	41	38	32	29	27	19	18	17	12
4	69	59	52	46	61	52	46	41	40	36	32	28	25	23	17	16	15	10
5	63	52	45	39	56	46	40	35	35	31	28	25	22	20	16	14	13	9
6	58	47	39	34	51	42	35	30	32	27	24	23	20	18	14	13	11	8
7	54	42	34	29	47	37	31	26	29	24	21	21	18	15	13	11	10	7
8	50	38	31	26	44	34	28	23	26	22	18	19	16	14	12	10	9	6
9	46	34	27	23	41	31	25	20	24	19	16	17	14	12	11	9	8	6
10	43	31	25	20	38	28	22	18	22	17	14	16	13	11	10	8	7	5

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4100	4100	4100	4100
5°	4889	4118	3649	4118
10°	6120	4098	3296	4098
15°	7506	4063	3069	4063
20°	8942	4013	2922	4013
25°	9495	3950	2888	3950
30°	8139	3904	2903	3904
35°	5660	3840	2934	3840
40°	4263	3763	2925	3763
45°	3539	3649	2888	3649
50°	3170	3418	2862	3418
55°	2965	3170	2826	3170
60°	2781	2908	2796	2908
65°	2613	2651	2707	2651
70°	2452	2357	2578	2357
75°	2196	2067	2366	2067
80°	1922	1692	2039	1692
85°	1507	1235	1371	1235



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.5	0.6
10°-20°	120.3	2.0
20°-30°	201.9	3.4
30°-40°	228.6	3.8
40°-50°	205.0	3.4
50°-60°	165.5	2.8
60°-70°	115.3	1.9
70°-80°	60.6	1.0
80°-90°	19.3	0.3
90°-100°	58.0	1.0
100°-110°	276.2	4.6
110°-120°	663.5	11.0
120°-130°	844.9	14.0
130°-140°	902.7	15.0
140°-150°	844.1	14.0
150°-160°	680.9	11.3
160°-170°	439.5	7.3
170°-180°	151.5	2.5
0°-30°	359.8	6.0
0°-40°	588.4	9.8
0°-60°	958.9	15.9
0°-90°	1154.1	19.2
90°-120°	997.6	16.6
90°-150°	3589.3	59.7
90°-180°	4861.0	80.8
0°-180°	6015.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	381	381	381	381	381	
5°	452	381	338	381	452	47
15°	674	365	275	365	674	194
25°	800	333	243	333	800	351
35°	431	292	223	292	431	280
45°	232	240	190	240	232	184
55°	158	169	151	169	158	142
65°	103	104	106	104	103	102
75°	53	50	57	50	53	56
85°	12	10	11	10	12	15
90°	36	1	36	1	36	17
95°	45	72	45	72	45	38
105°	52	353	52	353	52	119
115°	696	662	696	662	696	643
125°	952	933	952	933	952	850
135°	1174	1162	1174	1162	1174	905
145°	1354	1341	1354	1341	1354	845
155°	1474	1477	1474	1477	1474	680
165°	1554	1557	1554	1557	1554	439
175°	1588	1594	1588	1594	1588	151
180°	1594	1594	1594	1594	1594	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9
2.5°	404.3	403.9	403.2	403.8	402.6	401.0	400.8	399.3	395.1	394.8	393.6
5°	452.5	451.1	450.8	450.7	448.1	444.6	437.9	437.4	428.5	424.1	418.7
7.5°	515.1	515.8	513.1	510.8	502.9	497.6	490.5	481.4	470.6	459.5	452.2
10°	559.9	566.0	558.5	553.3	548.5	539.5	528.9	515.8	502.7	487.4	475.8
12.5°	608.1	611.0	609.5	604.7	597.2	583.4	564.8	550.3	538.3	512.8	502.5
15°	673.6	684.8	677.6	661.1	661.4	648.3	624.0	597.2	583.0	560.6	530.2
17.5°	743.5	744.8	741.8	727.9	718.7	700.7	678.2	652.6	623.8	596.8	564.4
20°	780.6	779.5	773.1	765.9	750.0	736.0	711.5	682.9	645.9	619.3	584.1
22.5°	801.3	799.5	796.4	790.4	777.2	762.2	740.1	708.8	673.7	637.1	596.4
25°	799.5	801.8	802.2	800.6	796.0	787.0	769.6	744.7	709.6	662.5	620.1
27.5°	727.1	730.6	740.4	749.2	758.9	768.9	767.5	755.2	729.2	688.6	636.7
30°	654.8	647.4	665.7	688.7	704.4	732.1	747.6	748.5	734.0	699.1	648.5
32.5°	554.4	562.5	570.6	599.0	633.3	664.3	695.2	720.0	722.9	699.7	655.5
35°	430.7	440.9	455.7	470.4	507.3	539.1	593.3	640.6	678.2	683.2	656.1
37.5°	347.1	352.1	361.5	376.3	400.4	438.1	480.0	539.7	594.3	634.9	636.6
40°	303.4	304.9	315.4	326.6	346.2	377.2	415.0	467.9	533.1	589.9	613.5
42.5°	270.6	273.9	278.4	289.1	304.8	328.0	363.2	406.9	466.8	532.0	578.1
45°	232.5	236.2	239.0	246.2	257.3	273.0	297.5	337.4	382.9	450.3	512.5
47.5°	207.4	207.6	209.7	215.2	222.7	234.5	251.8	277.4	319.2	373.9	437.8
50°	189.3	192.3	193.1	197.3	203.2	211.8	226.2	248.0	282.3	330.3	389.0
52.5°	176.7	177.5	179.6	182.7	187.8	194.6	207.1	224.1	251.0	292.0	345.9
55°	158.0	158.0	160.0	162.4	165.3	171.4	179.7	192.3	212.8	244.5	289.2
57.5°	140.7	141.6	143.1	143.8	146.3	150.4	157.2	166.8	182.0	206.5	242.0
60°	129.2	130.9	130.6	132.1	134.4	137.5	143.4	151.1	164.8	184.3	214.3
62.5°	119.1	119.1	119.0	120.8	122.9	126.0	129.8	136.5	148.1	165.5	190.9
65°	102.6	102.3	103.5	104.6	105.4	107.6	110.5	116.5	124.2	137.1	156.9
67.5°	87.9	86.8	87.5	87.9	89.2	90.9	93.7	97.4	103.5	113.8	128.7
70°	77.9	76.9	76.8	77.2	78.3	79.5	81.6	85.1	90.8	99.1	110.0
72.5°	67.6	66.9	66.9	67.7	68.2	69.1	70.5	73.7	78.3	84.5	94.7
75°	52.8	52.8	52.8	53.0	53.6	54.3	55.4	57.0	60.5	65.0	71.8
77.5°	39.5	39.5	39.3	39.3	40.1	40.4	40.6	42.2	44.2	47.1	52.1
80°	31.0	30.1	30.4	31.0	31.4	31.5	32.1	32.5	34.1	35.8	39.3
82.5°	23.1	22.3	22.3	23.2	23.3	23.4	24.0	24.5	25.1	26.6	28.5
85°	12.2	12.2	12.4	12.4	12.5	12.4	12.9	13.1	13.1	14.0	15.1
87.5°	11.6	11.2	11.2	11.2	10.9	10.9	10.9	10.9	10.8	10.7	10.1
90°	35.5	35.0	34.5	34.0	33.4	32.6	31.6	30.5	29.5	28.4	25.0
92.5°	39.3	39.0	38.7	38.3	38.0	37.1	35.4	33.7	32.0	30.3	27.7
95°	45.0	45.0	45.0	45.0	45.0	44.0	42.2	40.4	38.6	36.7	33.8
97.5°	48.8	48.6	48.2	48.0	47.8	46.6	44.4	42.4	40.2	38.1	35.1
100°	49.7	49.5	49.2	49.0	48.7	47.5	45.4	43.3	41.2	39.1	36.2
102.5°	50.7	50.2	49.7	49.3	48.8	48.1	46.9	44.9	42.8	40.7	38.6
105°	52.1	51.6	51.1	50.5	50.0	49.3	48.1	46.1	44.0	41.9	39.8
107.5°	163.7	198.8	233.9	269.0	304.1	338.7	372.9	407.0	441.2	475.4	471.7
110°	325.7	363.3	400.9	438.6	476.2	499.4	508.0	516.7	525.5	534.1	531.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	558.7	566.7	574.6	582.6	590.6	594.5	594.3	594.1	594.0	593.8	590.9
115°	696.4	695.3	694.3	693.2	692.1	690.3	687.7	685.1	682.4	679.8	677.4
117.5°	773.6	773.4	773.2	772.9	772.8	771.6	769.4	767.4	765.2	763.2	761.9
120°	826.6	826.6	826.6	826.6	826.6	825.6	823.5	821.4	819.3	817.1	816.3
122.5°	878.8	878.5	878.3	878.1	877.9	877.1	875.6	874.1	872.7	871.2	870.1
125°	952.2	951.6	951.1	950.6	950.1	949.5	949.0	948.5	948.0	947.5	946.4
127.5°	1022.8	1023.3	1023.8	1024.4	1024.8	1024.7	1023.9	1023.0	1022.2	1021.4	1020.1
130°	1068.3	1068.7	1069.3	1069.8	1070.3	1070.1	1069.1	1067.9	1066.9	1065.9	1064.9
132.5°	1109.9	1110.6	1111.4	1112.1	1112.9	1112.7	1111.7	1110.6	1109.5	1108.5	1107.6
135°	1173.6	1174.4	1175.2	1176.0	1176.8	1176.8	1176.0	1175.2	1174.4	1173.6	1172.6
137.5°	1233.6	1234.1	1234.6	1235.2	1235.6	1235.3	1234.1	1232.8	1231.5	1230.3	1229.7
140°	1269.6	1270.1	1270.7	1271.1	1271.7	1271.4	1270.3	1269.3	1268.3	1267.2	1266.4
142.5°	1302.7	1303.5	1304.2	1305.0	1305.7	1305.6	1304.8	1303.9	1303.1	1302.3	1301.5
145°	1353.7	1353.7	1353.7	1353.7	1353.7	1353.4	1352.9	1352.3	1351.8	1351.3	1350.8
147.5°	1391.5	1392.7	1394.0	1395.2	1396.4	1396.8	1396.2	1395.7	1395.2	1394.6	1394.1
150°	1420.0	1420.8	1421.6	1422.4	1423.2	1423.2	1422.8	1422.2	1421.7	1421.2	1420.6
152.5°	1442.7	1443.9	1445.1	1446.4	1447.6	1447.7	1446.8	1445.8	1444.9	1443.9	1443.6
155°	1474.5	1476.0	1477.6	1479.2	1480.7	1480.9	1479.6	1478.3	1476.9	1475.6	1475.4
157.5°	1501.2	1503.2	1505.3	1507.4	1509.4	1509.7	1508.1	1506.5	1504.9	1503.3	1503.6
160°	1518.3	1520.1	1521.9	1523.8	1525.7	1525.7	1524.2	1522.7	1521.1	1519.5	1519.7
162.5°	1534.4	1536.0	1537.6	1539.3	1540.9	1540.8	1539.1	1537.2	1535.5	1533.7	1533.9
165°	1553.8	1555.6	1557.5	1559.3	1561.2	1561.1	1558.9	1556.8	1554.7	1552.6	1552.9
167.5°	1567.8	1569.9	1572.0	1574.1	1576.2	1576.2	1574.1	1572.0	1569.9	1567.8	1567.8
170°	1576.3	1578.4	1580.5	1582.6	1584.8	1584.8	1582.6	1580.5	1578.4	1576.3	1576.3
172.5°	1581.0	1583.3	1585.7	1588.0	1590.3	1590.4	1588.3	1586.2	1584.1	1582.0	1581.8
175°	1588.2	1590.2	1592.4	1594.4	1596.6	1596.7	1594.8	1593.0	1591.2	1589.4	1589.0
177.5°	1590.3	1592.4	1594.5	1596.6	1598.7	1598.9	1597.2	1595.5	1593.9	1592.2	1592.0
180°	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9
2.5°	392.7	391.6	390.4	388.3	386.5	384.0	383.3	382.4	379.7	377.4	375.6
5°	416.7	412.3	405.8	399.9	395.1	388.6	385.0	381.1	375.6	370.6	366.5
7.5°	441.8	433.1	423.0	412.3	402.1	392.4	384.5	377.5	369.7	362.4	356.6
10°	461.8	449.2	435.1	420.0	407.1	394.6	384.0	374.9	364.9	356.2	349.0
12.5°	484.5	465.9	446.6	428.2	412.9	395.5	382.7	371.0	359.7	349.3	341.2
15°	511.4	487.7	464.9	439.6	416.4	394.6	379.5	364.6	351.6	340.9	330.5
17.5°	535.9	509.1	479.0	448.2	420.2	394.3	373.2	356.5	340.1	327.0	316.7
20°	549.8	519.4	485.2	453.3	422.2	393.5	370.2	350.3	332.6	318.7	307.1
22.5°	561.7	526.1	490.8	456.6	422.1	391.1	364.7	344.2	325.0	311.5	299.1
25°	574.2	531.5	496.1	456.1	417.5	385.3	355.8	332.6	313.4	297.5	284.8
27.5°	584.8	531.2	489.1	446.0	410.1	378.0	346.4	321.5	301.1	283.8	270.9
30°	591.8	531.9	481.9	439.3	403.1	369.9	339.2	314.1	292.7	275.2	263.0
32.5°	596.3	531.4	475.2	429.8	391.8	362.4	331.4	305.4	283.4	266.2	254.4
35°	598.9	528.1	463.7	410.3	373.8	345.1	319.1	292.2	269.1	253.0	239.7
37.5°	593.7	521.3	450.5	391.4	351.4	323.3	301.3	278.5	256.4	238.7	227.2
40°	585.6	516.9	440.1	378.1	336.0	309.0	290.3	267.8	246.0	229.2	218.5
42.5°	570.1	507.9	428.8	363.4	320.1	293.0	275.8	257.0	236.4	220.6	209.9
45°	532.3	488.3	411.7	341.3	296.6	268.5	253.4	239.7	221.1	205.8	196.5
47.5°	479.7	458.8	387.1	317.9	272.0	245.0	229.3	218.3	204.7	192.3	183.5
50°	443.3	434.6	370.4	301.9	255.6	229.2	214.0	204.1	194.3	182.0	173.9
52.5°	401.2	406.5	350.9	285.4	238.9	212.9	198.8	190.8	182.0	171.7	164.7
55°	342.0	361.3	317.3	257.6	214.0	189.3	175.9	168.9	163.7	156.1	150.0
57.5°	286.5	311.2	280.8	229.0	189.6	168.3	155.4	147.8	144.5	140.5	135.7
60°	253.6	277.9	254.8	209.8	173.3	153.0	141.6	135.1	131.7	129.0	124.9
62.5°	224.2	248.8	229.5	190.4	157.2	138.4	128.4	122.1	119.5	118.1	114.6
65°	183.8	205.0	192.1	160.0	134.2	117.6	108.5	104.1	101.7	101.2	98.9
67.5°	149.6	165.7	156.4	132.7	112.4	98.1	90.4	86.6	84.8	84.5	82.9
70°	127.1	142.3	135.1	113.7	96.2	84.9	78.3	74.9	73.8	73.7	72.7
72.5°	109.7	120.3	114.5	96.7	83.2	73.0	68.0	64.6	63.4	63.6	63.0
75°	81.2	89.1	85.8	73.4	62.6	55.9	51.9	49.7	48.6	49.1	48.3
77.5°	58.5	63.5	60.4	51.9	45.2	40.4	37.4	36.0	35.0	35.0	34.7
80°	44.1	47.1	45.4	40.2	34.7	30.7	28.2	27.3	26.8	26.5	26.4
82.5°	31.4	33.9	31.9	28.4	24.6	22.2	20.8	19.6	19.3	19.3	19.2
85°	15.8	16.8	16.1	13.9	12.4	11.2	10.5	10.0	9.6	9.7	9.4
87.5°	9.7	9.3	8.1	6.9	6.1	5.1	4.6	3.8	4.0	4.5	4.9
90°	21.5	18.1	14.7	11.7	9.1	6.4	3.8	1.2	3.8	6.4	9.1
92.5°	25.2	22.6	20.0	19.1	19.8	20.5	21.3	22.0	21.3	20.5	19.8
95°	30.9	28.0	25.1	29.1	39.8	50.7	61.5	72.2	61.5	50.7	39.8
97.5°	76.0	95.0	113.9	125.8	130.6	135.5	140.4	145.2	140.4	135.5	130.6
100°	121.2	162.2	203.3	221.2	215.9	210.6	205.4	200.2	205.4	210.6	215.9
102.5°	167.6	212.5	257.3	277.8	274.0	270.3	266.5	262.7	266.5	270.3	274.0
105°	306.7	330.4	354.1	364.5	361.6	358.7	355.8	352.9	355.8	358.7	361.6
107.5°	467.9	464.1	460.4	457.4	455.1	452.7	450.4	448.1	450.4	452.7	455.1
110°	528.3	525.5	522.5	520.1	517.9	515.8	513.7	511.6	513.7	515.8	517.9



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	588.0	585.1	582.3	579.8	578.0	576.1	574.2	572.3	574.2	576.1	578.0
115°	675.0	672.7	670.3	668.4	666.8	665.2	663.6	662.0	663.6	665.2	666.8
117.5°	760.7	759.5	758.4	756.8	754.8	752.8	750.9	748.9	750.9	752.8	754.8
120°	815.6	814.8	814.0	812.5	810.1	807.7	805.3	803.0	805.3	807.7	810.1
122.5°	869.2	868.2	867.2	865.7	863.7	861.8	859.8	857.9	859.8	861.8	863.7
125°	945.3	944.3	943.3	941.7	939.5	937.5	935.3	933.2	935.3	937.5	939.5
127.5°	1018.8	1017.6	1016.3	1014.6	1012.5	1010.4	1008.3	1006.2	1008.3	1010.4	1012.5
130°	1063.7	1062.7	1061.7	1060.1	1058.0	1055.9	1053.8	1051.6	1053.8	1055.9	1058.0
132.5°	1106.8	1106.0	1105.2	1103.7	1101.5	1099.5	1097.3	1095.3	1097.3	1099.5	1101.5
135°	1171.6	1170.4	1169.4	1168.2	1166.6	1165.0	1163.4	1161.8	1163.4	1165.0	1166.6
137.5°	1229.1	1228.5	1228.0	1226.6	1224.6	1222.7	1220.7	1218.6	1220.7	1222.7	1224.6
140°	1265.6	1264.8	1264.0	1262.9	1261.3	1259.7	1258.1	1256.6	1258.1	1259.7	1261.3
142.5°	1300.7	1299.9	1299.1	1297.9	1296.3	1294.7	1293.2	1291.6	1293.2	1294.7	1296.3
145°	1350.2	1349.7	1349.2	1348.0	1346.2	1344.3	1342.4	1340.6	1342.4	1344.3	1346.2
147.5°	1393.6	1393.1	1392.5	1391.6	1390.4	1389.3	1388.1	1386.8	1388.1	1389.3	1390.4
150°	1420.1	1419.6	1419.0	1418.4	1417.6	1416.8	1416.0	1415.2	1416.0	1416.8	1417.6
152.5°	1443.3	1443.0	1442.6	1442.3	1441.9	1441.5	1441.2	1440.8	1441.2	1441.5	1441.9
155°	1475.1	1474.9	1474.6	1474.7	1475.3	1475.8	1476.3	1476.8	1476.3	1475.8	1475.3
157.5°	1503.9	1504.1	1504.4	1504.6	1504.6	1504.7	1504.8	1504.8	1504.8	1504.7	1504.6
160°	1520.0	1520.3	1520.5	1520.8	1521.1	1521.3	1521.5	1521.9	1521.5	1521.3	1521.1
162.5°	1534.2	1534.5	1534.7	1535.2	1535.9	1536.6	1537.2	1537.9	1537.2	1536.6	1535.9
165°	1553.2	1553.4	1553.7	1554.2	1555.0	1555.8	1556.6	1557.4	1556.6	1555.8	1555.0
167.5°	1567.8	1567.8	1567.8	1568.3	1569.4	1570.4	1571.5	1572.5	1571.5	1570.4	1569.4
170°	1576.3	1576.3	1576.3	1576.8	1577.9	1578.9	1580.0	1581.0	1580.0	1578.9	1577.9
172.5°	1581.6	1581.4	1581.1	1581.7	1582.9	1584.2	1585.5	1586.7	1585.5	1584.2	1582.9
175°	1588.8	1588.6	1588.2	1588.8	1590.1	1591.4	1592.8	1594.0	1592.8	1591.4	1590.1
177.5°	1591.7	1591.6	1591.3	1591.7	1592.8	1593.9	1594.9	1595.9	1594.9	1593.9	1592.8
180°	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9
2.5°	374.5	373.5	372.1	369.9	368.0	365.3	365.3	365.7	365.7	365.6	365.3
5°	363.2	360.4	357.1	353.2	349.2	345.1	344.4	342.9	341.8	341.0	340.2
7.5°	351.2	346.3	341.4	336.0	331.1	327.0	324.2	321.8	320.3	318.6	317.4
10°	343.1	337.0	331.3	325.6	319.2	314.3	311.2	309.0	307.3	305.8	305.1
12.5°	333.5	326.5	320.2	314.7	307.9	302.8	299.8	298.7	296.8	293.7	292.1
15°	319.5	313.0	305.5	297.1	293.8	287.6	284.0	282.3	281.2	278.8	278.1
17.5°	307.4	299.0	290.5	284.3	278.1	273.1	271.1	269.0	267.6	265.6	265.0
20°	297.9	290.3	282.6	275.9	269.4	263.9	262.2	260.8	259.3	258.4	257.6
22.5°	288.1	280.6	274.1	267.9	261.0	257.4	255.6	254.0	252.9	252.3	251.6
25°	274.4	267.8	260.5	255.1	249.5	247.1	246.0	245.1	244.3	243.4	243.2
27.5°	262.2	254.9	249.1	243.9	240.0	238.0	236.9	236.5	236.6	236.9	237.2
30°	253.0	246.4	241.6	237.2	233.5	231.6	231.4	231.4	232.2	232.3	232.7
32.5°	244.6	239.2	234.3	230.0	227.3	226.0	226.7	226.7	227.3	227.8	228.5
35°	232.3	227.5	223.9	220.1	217.8	218.3	218.7	219.0	220.0	221.1	221.8
37.5°	220.6	216.5	212.6	209.8	208.7	209.6	210.6	211.3	212.4	213.3	214.0
40°	212.2	209.1	205.4	202.8	203.2	203.7	204.5	205.4	206.4	206.9	207.6
42.5°	204.4	201.1	198.3	196.1	196.7	197.4	197.8	198.3	199.4	200.4	200.8
45°	192.5	189.9	187.4	186.0	186.4	186.8	187.1	187.7	188.6	189.3	189.6
47.5°	179.1	177.3	175.5	174.3	174.9	174.8	175.2	176.4	176.7	177.1	178.2
50°	170.6	168.9	166.8	166.4	166.4	166.4	166.7	168.1	168.1	168.9	169.6
52.5°	161.1	160.0	158.8	158.0	157.7	157.7	158.5	159.2	159.5	160.6	161.4
55°	147.1	146.0	144.9	144.3	143.9	144.3	145.8	146.2	147.1	147.7	148.2
57.5°	132.5	131.7	130.8	130.5	130.4	130.9	131.7	132.8	133.0	134.8	135.5
60°	122.9	121.6	120.9	120.9	120.5	122.2	121.8	123.7	124.1	125.2	126.4
62.5°	113.0	111.3	111.0	111.0	111.5	112.0	112.5	113.3	114.3	115.7	116.7
65°	97.0	96.2	97.4	97.3	96.9	98.0	98.0	98.9	100.1	101.3	103.4
67.5°	82.0	81.5	81.6	81.6	82.1	82.8	83.3	84.1	85.5	86.8	88.2
70°	71.8	72.3	71.5	72.2	72.7	72.9	73.3	74.4	75.8	76.8	78.3
72.5°	61.9	61.9	61.9	62.3	62.8	63.1	63.5	64.8	66.4	67.2	68.4
75°	47.6	47.5	48.0	48.0	48.9	49.3	49.7	50.2	51.7	52.8	53.7
77.5°	34.8	35.0	34.9	35.5	35.3	35.3	36.4	37.0	37.2	39.4	39.8
80°	26.2	26.5	26.8	26.9	27.1	26.8	28.0	28.6	28.6	29.9	30.8
82.5°	18.9	19.0	19.5	19.7	19.7	20.1	20.2	20.6	21.1	21.6	22.8
85°	9.4	10.0	10.1	10.0	10.1	9.7	10.3	10.5	10.7	10.7	10.7
87.5°	5.3	6.0	6.6	7.4	7.9	8.8	9.0	8.9	9.1	9.7	9.3
90°	11.7	14.7	18.1	21.5	25.0	28.4	29.5	30.5	31.6	32.6	33.4
92.5°	19.1	20.0	22.6	25.2	27.7	30.3	32.0	33.7	35.4	37.1	38.0
95°	29.1	25.1	28.0	30.9	33.8	36.7	38.6	40.4	42.2	44.0	45.0
97.5°	125.8	113.9	95.0	76.0	57.1	38.1	40.2	42.4	44.4	46.6	47.8
100°	221.2	203.3	162.2	121.2	80.2	39.1	41.2	43.3	45.4	47.5	48.7
102.5°	277.8	257.3	212.5	167.6	122.8	78.0	71.4	64.9	58.4	51.8	48.8
105°	364.5	354.1	330.4	306.7	283.0	259.4	212.8	166.2	119.6	73.0	50.0
107.5°	457.4	460.4	464.1	467.9	471.7	475.4	441.2	407.0	372.9	338.7	304.1
110°	520.1	522.5	525.5	528.3	531.2	534.1	525.5	516.7	508.0	499.4	476.2



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	579.8	582.3	585.1	588.0	590.9	593.8	594.0	594.1	594.3	594.5	590.6
115°	668.4	670.3	672.7	675.0	677.4	679.8	682.4	685.1	687.7	690.3	692.1
117.5°	756.8	758.4	759.5	760.7	761.9	763.2	765.2	767.4	769.4	771.6	772.8
120°	812.5	814.0	814.8	815.6	816.3	817.1	819.3	821.4	823.5	825.6	826.6
122.5°	865.7	867.2	868.2	869.2	870.1	871.2	872.7	874.1	875.6	877.1	877.9
125°	941.7	943.3	944.3	945.3	946.4	947.5	948.0	948.5	949.0	949.5	950.1
127.5°	1014.6	1016.3	1017.6	1018.8	1020.1	1021.4	1022.2	1023.0	1023.9	1024.7	1024.8
130°	1060.1	1061.7	1062.7	1063.7	1064.9	1065.9	1066.9	1067.9	1069.1	1070.1	1070.3
132.5°	1103.7	1105.2	1106.0	1106.8	1107.6	1108.5	1109.5	1110.6	1111.7	1112.7	1112.9
135°	1168.2	1169.4	1170.4	1171.6	1172.6	1173.6	1174.4	1175.2	1176.0	1176.8	1176.8
137.5°	1226.6	1228.0	1228.5	1229.1	1229.7	1230.3	1231.5	1232.8	1234.1	1235.3	1235.6
140°	1262.9	1264.0	1264.8	1265.6	1266.4	1267.2	1268.3	1269.3	1270.3	1271.4	1271.7
142.5°	1297.9	1299.1	1299.9	1300.7	1301.5	1302.3	1303.1	1303.9	1304.8	1305.6	1305.7
145°	1348.0	1349.2	1349.7	1350.2	1350.8	1351.3	1351.8	1352.3	1352.9	1353.4	1353.7
147.5°	1391.6	1392.5	1393.1	1393.6	1394.1	1394.6	1395.2	1395.7	1396.2	1396.8	1396.4
150°	1418.4	1419.0	1419.6	1420.1	1420.6	1421.2	1421.7	1422.2	1422.8	1423.2	1423.2
152.5°	1442.3	1442.6	1443.0	1443.3	1443.6	1443.9	1444.9	1445.8	1446.8	1447.7	1447.6
155°	1474.7	1474.6	1474.9	1475.1	1475.4	1475.6	1476.9	1478.3	1479.6	1480.9	1480.7
157.5°	1504.6	1504.4	1504.1	1503.9	1503.6	1503.3	1504.9	1506.5	1508.1	1509.7	1509.4
160°	1520.8	1520.5	1520.3	1520.0	1519.7	1519.5	1521.1	1522.7	1524.2	1525.7	1525.7
162.5°	1535.2	1534.7	1534.5	1534.2	1533.9	1533.7	1535.5	1537.2	1539.1	1540.8	1540.9
165°	1554.2	1553.7	1553.4	1553.2	1552.9	1552.6	1554.7	1556.8	1558.9	1561.1	1561.2
167.5°	1568.3	1567.8	1567.8	1567.8	1567.8	1567.8	1569.9	1572.0	1574.1	1576.2	1576.2
170°	1576.8	1576.3	1576.3	1576.3	1576.3	1576.3	1578.4	1580.5	1582.6	1584.8	1584.8
172.5°	1581.7	1581.1	1581.4	1581.6	1581.8	1582.0	1584.1	1586.2	1588.3	1590.4	1590.3
175°	1588.8	1588.2	1588.6	1588.8	1589.0	1589.4	1591.2	1593.0	1594.8	1596.7	1596.6
177.5°	1591.7	1591.3	1591.6	1591.7	1592.0	1592.2	1593.9	1595.5	1597.2	1598.9	1598.7
180°	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0



TEST NUMBER: P332114-927

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9
2.5°	364.2	364.1	365.1	364.4	365.1	364.1	364.2	365.3	365.6	365.7	365.7
5°	339.1	339.6	337.7	337.7	337.7	339.6	339.1	340.2	341.0	341.8	342.9
7.5°	316.6	315.8	315.8	314.8	315.8	315.8	316.6	317.4	318.6	320.3	321.8
10°	302.9	301.7	301.3	301.6	301.3	301.7	302.9	305.1	305.8	307.3	309.0
12.5°	291.4	291.3	288.8	288.8	288.8	291.3	291.4	292.1	293.7	296.8	298.7
15°	278.1	274.6	274.3	275.4	274.3	274.6	278.1	278.1	278.8	281.2	282.3
17.5°	264.7	262.8	263.0	262.4	263.0	262.8	264.7	265.0	265.6	267.6	269.0
20°	257.6	256.5	256.4	255.1	256.4	256.5	257.6	257.6	258.4	259.3	260.8
22.5°	251.1	250.8	250.9	249.5	250.9	250.8	251.1	251.6	252.3	252.9	254.0
25°	243.0	244.0	243.2	243.2	243.2	244.0	243.0	243.2	243.4	244.3	245.1
27.5°	237.6	237.6	237.2	237.2	237.2	237.6	237.6	237.2	236.9	236.6	236.5
30°	233.5	233.3	233.6	233.6	233.6	233.3	233.5	232.7	232.3	232.2	231.4
32.5°	229.3	229.6	229.7	229.8	229.7	229.6	229.3	228.5	227.8	227.3	226.7
35°	222.9	223.2	223.7	223.3	223.7	223.2	222.9	221.8	221.1	220.0	219.0
37.5°	214.3	215.2	215.0	215.2	215.0	215.2	214.3	214.0	213.3	212.4	211.3
40°	207.8	208.3	208.2	208.2	208.2	208.3	207.8	207.6	206.9	206.4	205.4
42.5°	201.1	201.5	201.1	200.8	201.1	201.5	201.1	200.8	200.4	199.4	198.3
45°	190.3	189.9	190.4	189.7	190.4	189.9	190.3	189.6	189.3	188.6	187.7
47.5°	178.1	178.5	178.6	179.2	178.6	178.5	178.1	178.2	177.1	176.7	176.4
50°	170.0	171.1	171.1	170.9	171.1	171.1	170.0	169.6	168.9	168.1	168.1
52.5°	162.0	162.5	163.3	163.2	163.3	162.5	162.0	161.4	160.6	159.5	159.2
55°	149.6	150.0	150.4	150.6	150.4	150.0	149.6	148.2	147.7	147.1	146.2
57.5°	136.9	136.7	137.6	137.9	137.6	136.7	136.9	135.5	134.8	133.0	132.8
60°	127.9	127.9	129.4	129.9	129.4	127.9	127.9	126.4	125.2	124.1	123.7
62.5°	118.3	118.9	120.3	119.6	120.3	118.9	118.3	116.7	115.7	114.3	113.3
65°	104.3	105.8	105.6	106.3	105.6	105.8	104.3	103.4	101.3	100.1	98.9
67.5°	89.6	90.5	91.9	92.0	91.9	90.5	89.6	88.2	86.8	85.5	84.1
70°	79.7	80.6	81.4	81.9	81.4	80.6	79.7	78.3	76.8	75.8	74.4
72.5°	70.1	70.6	72.4	71.6	72.4	70.6	70.1	68.4	67.2	66.4	64.8
75°	55.0	56.3	57.4	56.9	57.4	56.3	55.0	53.7	52.8	51.7	50.2
77.5°	40.6	42.0	42.5	42.0	42.5	42.0	40.6	39.8	39.4	37.2	37.0
80°	32.1	31.9	33.0	32.9	33.0	31.9	32.1	30.8	29.9	28.6	28.6
82.5°	23.5	23.4	23.8	24.0	23.8	23.4	23.5	22.8	21.6	21.1	20.6
85°	11.4	12.0	11.2	11.1	11.2	12.0	11.4	10.7	10.7	10.7	10.5
87.5°	9.4	9.6	9.5	9.5	9.5	9.6	9.4	9.3	9.7	9.1	8.9
90°	34.0	34.5	35.0	35.5	35.0	34.5	34.0	33.4	32.6	31.6	30.5
92.5°	38.3	38.7	39.0	39.3	39.0	38.7	38.3	38.0	37.1	35.4	33.7
95°	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	44.0	42.2	40.4
97.5°	48.0	48.2	48.6	48.8	48.6	48.2	48.0	47.8	46.6	44.4	42.4
100°	49.0	49.2	49.5	49.7	49.5	49.2	49.0	48.7	47.5	45.4	43.3
102.5°	49.3	49.7	50.2	50.7	50.2	49.7	49.3	48.8	51.8	58.4	64.9
105°	50.5	51.1	51.6	52.1	51.6	51.1	50.5	50.0	73.0	119.6	166.2
107.5°	269.0	233.9	198.8	163.7	198.8	233.9	269.0	304.1	338.7	372.9	407.0
110°	438.6	400.9	363.3	325.7	363.3	400.9	438.6	476.2	499.4	508.0	516.7



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	582.6	574.6	566.7	558.7	566.7	574.6	582.6	590.6	594.5	594.3	594.1
115°	693.2	694.3	695.3	696.4	695.3	694.3	693.2	692.1	690.3	687.7	685.1
117.5°	772.9	773.2	773.4	773.6	773.4	773.2	772.9	772.8	771.6	769.4	767.4
120°	826.6	826.6	826.6	826.6	826.6	826.6	826.6	826.6	825.6	823.5	821.4
122.5°	878.1	878.3	878.5	878.8	878.5	878.3	878.1	877.9	877.1	875.6	874.1
125°	950.6	951.1	951.6	952.2	951.6	951.1	950.6	950.1	949.5	949.0	948.5
127.5°	1024.4	1023.8	1023.3	1022.8	1023.3	1023.8	1024.4	1024.8	1024.7	1023.9	1023.0
130°	1069.8	1069.3	1068.7	1068.3	1068.7	1069.3	1069.8	1070.3	1070.1	1069.1	1067.9
132.5°	1112.1	1111.4	1110.6	1109.9	1110.6	1111.4	1112.1	1112.9	1112.7	1111.7	1110.6
135°	1176.0	1175.2	1174.4	1173.6	1174.4	1175.2	1176.0	1176.8	1176.8	1176.0	1175.2
137.5°	1235.2	1234.6	1234.1	1233.6	1234.1	1234.6	1235.2	1235.6	1235.3	1234.1	1232.8
140°	1271.1	1270.7	1270.1	1269.6	1270.1	1270.7	1271.1	1271.7	1271.4	1270.3	1269.3
142.5°	1305.0	1304.2	1303.5	1302.7	1303.5	1304.2	1305.0	1305.7	1305.6	1304.8	1303.9
145°	1353.7	1353.7	1353.7	1353.7	1353.7	1353.7	1353.7	1353.7	1353.4	1352.9	1352.3
147.5°	1395.2	1394.0	1392.7	1391.5	1392.7	1394.0	1395.2	1396.4	1396.8	1396.2	1395.7
150°	1422.4	1421.6	1420.8	1420.0	1420.8	1421.6	1422.4	1423.2	1423.2	1422.8	1422.2
152.5°	1446.4	1445.1	1443.9	1442.7	1443.9	1445.1	1446.4	1447.6	1447.7	1446.8	1445.8
155°	1479.2	1477.6	1476.0	1474.5	1476.0	1477.6	1479.2	1480.7	1480.9	1479.6	1478.3
157.5°	1507.4	1505.3	1503.2	1501.2	1503.2	1505.3	1507.4	1509.4	1509.7	1508.1	1506.5
160°	1523.8	1521.9	1520.1	1518.3	1520.1	1521.9	1523.8	1525.7	1525.7	1524.2	1522.7
162.5°	1539.3	1537.6	1536.0	1534.4	1536.0	1537.6	1539.3	1540.9	1540.8	1539.1	1537.2
165°	1559.3	1557.5	1555.6	1553.8	1555.6	1557.5	1559.3	1561.2	1561.1	1558.9	1556.8
167.5°	1574.1	1572.0	1569.9	1567.8	1569.9	1572.0	1574.1	1576.2	1576.2	1574.1	1572.0
170°	1582.6	1580.5	1578.4	1576.3	1578.4	1580.5	1582.6	1584.8	1584.8	1582.6	1580.5
172.5°	1588.0	1585.7	1583.3	1581.0	1583.3	1585.7	1588.0	1590.3	1590.4	1588.3	1586.2
175°	1594.4	1592.4	1590.2	1588.2	1590.2	1592.4	1594.4	1596.6	1596.7	1594.8	1593.0
177.5°	1596.6	1594.5	1592.4	1590.3	1592.4	1594.5	1596.6	1598.7	1598.9	1597.2	1595.5
180°	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9
2.5°	365.3	365.3	368.0	369.9	372.1	373.5	374.5	375.6	377.4	379.7	382.4
5°	344.4	345.1	349.2	353.2	357.1	360.4	363.2	366.5	370.6	375.6	381.1
7.5°	324.2	327.0	331.1	336.0	341.4	346.3	351.2	356.6	362.4	369.7	377.5
10°	311.2	314.3	319.2	325.6	331.3	337.0	343.1	349.0	356.2	364.9	374.9
12.5°	299.8	302.8	307.9	314.7	320.2	326.5	333.5	341.2	349.3	359.7	371.0
15°	284.0	287.6	293.8	297.1	305.5	313.0	319.5	330.5	340.9	351.6	364.6
17.5°	271.1	273.1	278.1	284.3	290.5	299.0	307.4	316.7	327.0	340.1	356.5
20°	262.2	263.9	269.4	275.9	282.6	290.3	297.9	307.1	318.7	332.6	350.3
22.5°	255.6	257.4	261.0	267.9	274.1	280.6	288.1	299.1	311.5	325.0	344.2
25°	246.0	247.1	249.5	255.1	260.5	267.8	274.4	284.8	297.5	313.4	332.6
27.5°	236.9	238.0	240.0	243.9	249.1	254.9	262.2	270.9	283.8	301.1	321.5
30°	231.4	231.6	233.5	237.2	241.6	246.4	253.0	263.0	275.2	292.7	314.1
32.5°	226.7	226.0	227.3	230.0	234.3	239.2	244.6	254.4	266.2	283.4	305.4
35°	218.7	218.3	217.8	220.1	223.9	227.5	232.3	239.7	253.0	269.1	292.2
37.5°	210.6	209.6	208.7	209.8	212.6	216.5	220.6	227.2	238.7	256.4	278.5
40°	204.5	203.7	203.2	202.8	205.4	209.1	212.2	218.5	229.2	246.0	267.8
42.5°	197.8	197.4	196.7	196.1	198.3	201.1	204.4	209.9	220.6	236.4	257.0
45°	187.1	186.8	186.4	186.0	187.4	189.9	192.5	196.5	205.8	221.1	239.7
47.5°	175.2	174.8	174.9	174.3	175.5	177.3	179.1	183.5	192.3	204.7	218.3
50°	166.7	166.4	166.4	166.4	166.8	168.9	170.6	173.9	182.0	194.3	204.1
52.5°	158.5	157.7	157.7	158.0	158.8	160.0	161.1	164.7	171.7	182.0	190.8
55°	145.8	144.3	143.9	144.3	144.9	146.0	147.1	150.0	156.1	163.7	168.9
57.5°	131.7	130.9	130.4	130.5	130.8	131.7	132.5	135.7	140.5	144.5	147.8
60°	121.8	122.2	120.5	120.9	120.9	121.6	122.9	124.9	129.0	131.7	135.1
62.5°	112.5	112.0	111.5	111.0	111.0	111.3	113.0	114.6	118.1	119.5	122.1
65°	98.0	98.0	96.9	97.3	97.4	96.2	97.0	98.9	101.2	101.7	104.1
67.5°	83.3	82.8	82.1	81.6	81.6	81.5	82.0	82.9	84.5	84.8	86.6
70°	73.3	72.9	72.7	72.2	71.5	72.3	71.8	72.7	73.7	73.8	74.9
72.5°	63.5	63.1	62.8	62.3	61.9	61.9	61.9	63.0	63.6	63.4	64.6
75°	49.7	49.3	48.9	48.0	48.0	47.5	47.6	48.3	49.1	48.6	49.7
77.5°	36.4	35.3	35.3	35.5	34.9	35.0	34.8	34.7	35.0	35.0	36.0
80°	28.0	26.8	27.1	26.9	26.8	26.5	26.2	26.4	26.5	26.8	27.3
82.5°	20.2	20.1	19.7	19.7	19.5	19.0	18.9	19.2	19.3	19.3	19.6
85°	10.3	9.7	10.1	10.0	10.1	10.0	9.4	9.4	9.7	9.6	10.0
87.5°	9.0	8.8	7.9	7.4	6.6	6.0	5.3	4.9	4.5	4.0	3.8
90°	29.5	28.4	25.0	21.5	18.1	14.7	11.7	9.1	6.4	3.8	1.2
92.5°	32.0	30.3	27.7	25.2	22.6	20.0	19.1	19.8	20.5	21.3	22.0
95°	38.6	36.7	33.8	30.9	28.0	25.1	29.1	39.8	50.7	61.5	72.2
97.5°	40.2	38.1	57.1	76.0	95.0	113.9	125.8	130.6	135.5	140.4	145.2
100°	41.2	39.1	80.2	121.2	162.2	203.3	221.2	215.9	210.6	205.4	200.2
102.5°	71.4	78.0	122.8	167.6	212.5	257.3	277.8	274.0	270.3	266.5	262.7
105°	212.8	259.4	283.0	306.7	330.4	354.1	364.5	361.6	358.7	355.8	352.9
107.5°	441.2	475.4	471.7	467.9	464.1	460.4	457.4	455.1	452.7	450.4	448.1
110°	525.5	534.1	531.2	528.3	525.5	522.5	520.1	517.9	515.8	513.7	511.6



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	594.0	593.8	590.9	588.0	585.1	582.3	579.8	578.0	576.1	574.2	572.3
115°	682.4	679.8	677.4	675.0	672.7	670.3	668.4	666.8	665.2	663.6	662.0
117.5°	765.2	763.2	761.9	760.7	759.5	758.4	756.8	754.8	752.8	750.9	748.9
120°	819.3	817.1	816.3	815.6	814.8	814.0	812.5	810.1	807.7	805.3	803.0
122.5°	872.7	871.2	870.1	869.2	868.2	867.2	865.7	863.7	861.8	859.8	857.9
125°	948.0	947.5	946.4	945.3	944.3	943.3	941.7	939.5	937.5	935.3	933.2
127.5°	1022.2	1021.4	1020.1	1018.8	1017.6	1016.3	1014.6	1012.5	1010.4	1008.3	1006.2
130°	1066.9	1065.9	1064.9	1063.7	1062.7	1061.7	1060.1	1058.0	1055.9	1053.8	1051.6
132.5°	1109.5	1108.5	1107.6	1106.8	1106.0	1105.2	1103.7	1101.5	1099.5	1097.3	1095.3
135°	1174.4	1173.6	1172.6	1171.6	1170.4	1169.4	1168.2	1166.6	1165.0	1163.4	1161.8
137.5°	1231.5	1230.3	1229.7	1229.1	1228.5	1228.0	1226.6	1224.6	1222.7	1220.7	1218.6
140°	1268.3	1267.2	1266.4	1265.6	1264.8	1264.0	1262.9	1261.3	1259.7	1258.1	1256.6
142.5°	1303.1	1302.3	1301.5	1300.7	1299.9	1299.1	1297.9	1296.3	1294.7	1293.2	1291.6
145°	1351.8	1351.3	1350.8	1350.2	1349.7	1349.2	1348.0	1346.2	1344.3	1342.4	1340.6
147.5°	1395.2	1394.6	1394.1	1393.6	1393.1	1392.5	1391.6	1390.4	1389.3	1388.1	1386.8
150°	1421.7	1421.2	1420.6	1420.1	1419.6	1419.0	1418.4	1417.6	1416.8	1416.0	1415.2
152.5°	1444.9	1443.9	1443.6	1443.3	1443.0	1442.6	1442.3	1441.9	1441.5	1441.2	1440.8
155°	1476.9	1475.6	1475.4	1475.1	1474.9	1474.6	1474.7	1475.3	1475.8	1476.3	1476.8
157.5°	1504.9	1503.3	1503.6	1503.9	1504.1	1504.4	1504.6	1504.6	1504.7	1504.8	1504.8
160°	1521.1	1519.5	1519.7	1520.0	1520.3	1520.5	1520.8	1521.1	1521.3	1521.5	1521.9
162.5°	1535.5	1533.7	1533.9	1534.2	1534.5	1534.7	1535.2	1535.9	1536.6	1537.2	1537.9
165°	1554.7	1552.6	1552.9	1553.2	1553.4	1553.7	1554.2	1555.0	1555.8	1556.6	1557.4
167.5°	1569.9	1567.8	1567.8	1567.8	1567.8	1567.8	1568.3	1569.4	1570.4	1571.5	1572.5
170°	1578.4	1576.3	1576.3	1576.3	1576.3	1576.3	1576.8	1577.9	1578.9	1580.0	1581.0
172.5°	1584.1	1582.0	1581.8	1581.6	1581.4	1581.1	1581.7	1582.9	1584.2	1585.5	1586.7
175°	1591.2	1589.4	1589.0	1588.8	1588.6	1588.2	1588.8	1590.1	1591.4	1592.8	1594.0
177.5°	1593.9	1592.2	1592.0	1591.7	1591.6	1591.3	1591.7	1592.8	1593.9	1594.9	1595.9
180°	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9
2.5°	383.3	384.0	386.5	388.3	390.4	391.6	392.7	393.6	394.8	395.1	399.3
5°	385.0	388.6	395.1	399.9	405.8	412.3	416.7	418.7	424.1	428.5	437.4
7.5°	384.5	392.4	402.1	412.3	423.0	433.1	441.8	452.2	459.5	470.6	481.4
10°	384.0	394.6	407.1	420.0	435.1	449.2	461.8	475.8	487.4	502.7	515.8
12.5°	382.7	395.5	412.9	428.2	446.6	465.9	484.5	502.5	512.8	538.3	550.3
15°	379.5	394.6	416.4	439.6	464.9	487.7	511.4	530.2	560.6	583.0	597.2
17.5°	373.2	394.3	420.2	448.2	479.0	509.1	535.9	564.4	596.8	623.8	652.6
20°	370.2	393.5	422.2	453.3	485.2	519.4	549.8	584.1	619.3	645.9	682.9
22.5°	364.7	391.1	422.1	456.6	490.8	526.1	561.7	596.4	637.1	673.7	708.8
25°	355.8	385.3	417.5	456.1	496.1	531.5	574.2	620.1	662.5	709.6	744.7
27.5°	346.4	378.0	410.1	446.0	489.1	531.2	584.8	636.7	688.6	729.2	755.2
30°	339.2	369.9	403.1	439.3	481.9	531.9	591.8	648.5	699.1	734.0	748.5
32.5°	331.4	362.4	391.8	429.8	475.2	531.4	596.3	655.5	699.7	722.9	720.0
35°	319.1	345.1	373.8	410.3	463.7	528.1	598.9	656.1	683.2	678.2	640.6
37.5°	301.3	323.3	351.4	391.4	450.5	521.3	593.7	636.6	634.9	594.3	539.7
40°	290.3	309.0	336.0	378.1	440.1	516.9	585.6	613.5	589.9	533.1	467.9
42.5°	275.8	293.0	320.1	363.4	428.8	507.9	570.1	578.1	532.0	466.8	406.9
45°	253.4	268.5	296.6	341.3	411.7	488.3	532.3	512.5	450.3	382.9	337.4
47.5°	229.3	245.0	272.0	317.9	387.1	458.8	479.7	437.8	373.9	319.2	277.4
50°	214.0	229.2	255.6	301.9	370.4	434.6	443.3	389.0	330.3	282.3	248.0
52.5°	198.8	212.9	238.9	285.4	350.9	406.5	401.2	345.9	292.0	251.0	224.1
55°	175.9	189.3	214.0	257.6	317.3	361.3	342.0	289.2	244.5	212.8	192.3
57.5°	155.4	168.3	189.6	229.0	280.8	311.2	286.5	242.0	206.5	182.0	166.8
60°	141.6	153.0	173.3	209.8	254.8	277.9	253.6	214.3	184.3	164.8	151.1
62.5°	128.4	138.4	157.2	190.4	229.5	248.8	224.2	190.9	165.5	148.1	136.5
65°	108.5	117.6	134.2	160.0	192.1	205.0	183.8	156.9	137.1	124.2	116.5
67.5°	90.4	98.1	112.4	132.7	156.4	165.7	149.6	128.7	113.8	103.5	97.4
70°	78.3	84.9	96.2	113.7	135.1	142.3	127.1	110.0	99.1	90.8	85.1
72.5°	68.0	73.0	83.2	96.7	114.5	120.3	109.7	94.7	84.5	78.3	73.7
75°	51.9	55.9	62.6	73.4	85.8	89.1	81.2	71.8	65.0	60.5	57.0
77.5°	37.4	40.4	45.2	51.9	60.4	63.5	58.5	52.1	47.1	44.2	42.2
80°	28.2	30.7	34.7	40.2	45.4	47.1	44.1	39.3	35.8	34.1	32.5
82.5°	20.8	22.2	24.6	28.4	31.9	33.9	31.4	28.5	26.6	25.1	24.5
85°	10.5	11.2	12.4	13.9	16.1	16.8	15.8	15.1	14.0	13.1	13.1
87.5°	4.6	5.1	6.1	6.9	8.1	9.3	9.7	10.1	10.7	10.8	10.9
90°	3.8	6.4	9.1	11.7	14.7	18.1	21.5	25.0	28.4	29.5	30.5
92.5°	21.3	20.5	19.8	19.1	20.0	22.6	25.2	27.7	30.3	32.0	33.7
95°	61.5	50.7	39.8	29.1	25.1	28.0	30.9	33.8	36.7	38.6	40.4
97.5°	140.4	135.5	130.6	125.8	113.9	95.0	76.0	57.1	38.1	40.2	42.4
100°	205.4	210.6	215.9	221.2	203.3	162.2	121.2	80.2	39.1	41.2	43.3
102.5°	266.5	270.3	274.0	277.8	257.3	212.5	167.6	122.8	78.0	71.4	64.9
105°	355.8	358.7	361.6	364.5	354.1	330.4	306.7	283.0	259.4	212.8	166.2
107.5°	450.4	452.7	455.1	457.4	460.4	464.1	467.9	471.7	475.4	441.2	407.0
110°	513.7	515.8	517.9	520.1	522.5	525.5	528.3	531.2	534.1	525.5	516.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	574.2	576.1	578.0	579.8	582.3	585.1	588.0	590.9	593.8	594.0	594.1
115°	663.6	665.2	666.8	668.4	670.3	672.7	675.0	677.4	679.8	682.4	685.1
117.5°	750.9	752.8	754.8	756.8	758.4	759.5	760.7	761.9	763.2	765.2	767.4
120°	805.3	807.7	810.1	812.5	814.0	814.8	815.6	816.3	817.1	819.3	821.4
122.5°	859.8	861.8	863.7	865.7	867.2	868.2	869.2	870.1	871.2	872.7	874.1
125°	935.3	937.5	939.5	941.7	943.3	944.3	945.3	946.4	947.5	948.0	948.5
127.5°	1008.3	1010.4	1012.5	1014.6	1016.3	1017.6	1018.8	1020.1	1021.4	1022.2	1023.0
130°	1053.8	1055.9	1058.0	1060.1	1061.7	1062.7	1063.7	1064.9	1065.9	1066.9	1067.9
132.5°	1097.3	1099.5	1101.5	1103.7	1105.2	1106.0	1106.8	1107.6	1108.5	1109.5	1110.6
135°	1163.4	1165.0	1166.6	1168.2	1169.4	1170.4	1171.6	1172.6	1173.6	1174.4	1175.2
137.5°	1220.7	1222.7	1224.6	1226.6	1228.0	1228.5	1229.1	1229.7	1230.3	1231.5	1232.8
140°	1258.1	1259.7	1261.3	1262.9	1264.0	1264.8	1265.6	1266.4	1267.2	1268.3	1269.3
142.5°	1293.2	1294.7	1296.3	1297.9	1299.1	1299.9	1300.7	1301.5	1302.3	1303.1	1303.9
145°	1342.4	1344.3	1346.2	1348.0	1349.2	1349.7	1350.2	1350.8	1351.3	1351.8	1352.3
147.5°	1388.1	1389.3	1390.4	1391.6	1392.5	1393.1	1393.6	1394.1	1394.6	1395.2	1395.7
150°	1416.0	1416.8	1417.6	1418.4	1419.0	1419.6	1420.1	1420.6	1421.2	1421.7	1422.2
152.5°	1441.2	1441.5	1441.9	1442.3	1442.6	1443.0	1443.3	1443.6	1443.9	1444.9	1445.8
155°	1476.3	1475.8	1475.3	1474.7	1474.6	1474.9	1475.1	1475.4	1475.6	1476.9	1478.3
157.5°	1504.8	1504.7	1504.6	1504.6	1504.4	1504.1	1503.9	1503.6	1503.3	1504.9	1506.5
160°	1521.5	1521.3	1521.1	1520.8	1520.5	1520.3	1520.0	1519.7	1519.5	1521.1	1522.7
162.5°	1537.2	1536.6	1535.9	1535.2	1534.7	1534.5	1534.2	1533.9	1533.7	1535.5	1537.2
165°	1556.6	1555.8	1555.0	1554.2	1553.7	1553.4	1553.2	1552.9	1552.6	1554.7	1556.8
167.5°	1571.5	1570.4	1569.4	1568.3	1567.8	1567.8	1567.8	1567.8	1567.8	1569.9	1572.0
170°	1580.0	1578.9	1577.9	1576.8	1576.3	1576.3	1576.3	1576.3	1576.3	1578.4	1580.5
172.5°	1585.5	1584.2	1582.9	1581.7	1581.1	1581.4	1581.6	1581.8	1582.0	1584.1	1586.2
175°	1592.8	1591.4	1590.1	1588.8	1588.2	1588.6	1588.8	1589.0	1589.4	1591.2	1593.0
177.5°	1594.9	1593.9	1592.8	1591.7	1591.3	1591.6	1591.7	1592.0	1592.2	1593.9	1595.5
180°	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	380.9	380.9	380.9	380.9	380.9	380.9	380.9
2.5°	400.8	401.0	402.6	403.8	403.2	403.9	404.3
5°	437.9	444.6	448.1	450.7	450.8	451.1	452.5
7.5°	490.5	497.6	502.9	510.8	513.1	515.8	515.1
10°	528.9	539.5	548.5	553.3	558.5	566.0	559.9
12.5°	564.8	583.4	597.2	604.7	609.5	611.0	608.1
15°	624.0	648.3	661.4	661.1	677.6	684.8	673.6
17.5°	678.2	700.7	718.7	727.9	741.8	744.8	743.5
20°	711.5	736.0	750.0	765.9	773.1	779.5	780.6
22.5°	740.1	762.2	777.2	790.4	796.4	799.5	801.3
25°	769.6	787.0	796.0	800.6	802.2	801.8	799.5
27.5°	767.5	768.9	758.9	749.2	740.4	730.6	727.1
30°	747.6	732.1	704.4	688.7	665.7	647.4	654.8
32.5°	695.2	664.3	633.3	599.0	570.6	562.5	554.4
35°	593.3	539.1	507.3	470.4	455.7	440.9	430.7
37.5°	480.0	438.1	400.4	376.3	361.5	352.1	347.1
40°	415.0	377.2	346.2	326.6	315.4	304.9	303.4
42.5°	363.2	328.0	304.8	289.1	278.4	273.9	270.6
45°	297.5	273.0	257.3	246.2	239.0	236.2	232.5
47.5°	251.8	234.5	222.7	215.2	209.7	207.6	207.4
50°	226.2	211.8	203.2	197.3	193.1	192.3	189.3
52.5°	207.1	194.6	187.8	182.7	179.6	177.5	176.7
55°	179.7	171.4	165.3	162.4	160.0	158.0	158.0
57.5°	157.2	150.4	146.3	143.8	143.1	141.6	140.7
60°	143.4	137.5	134.4	132.1	130.6	130.9	129.2
62.5°	129.8	126.0	122.9	120.8	119.0	119.1	119.1
65°	110.5	107.6	105.4	104.6	103.5	102.3	102.6
67.5°	93.7	90.9	89.2	87.9	87.5	86.8	87.9
70°	81.6	79.5	78.3	77.2	76.8	76.9	77.9
72.5°	70.5	69.1	68.2	67.7	66.9	66.9	67.6
75°	55.4	54.3	53.6	53.0	52.8	52.8	52.8
77.5°	40.6	40.4	40.1	39.3	39.3	39.5	39.5
80°	32.1	31.5	31.4	31.0	30.4	30.1	31.0
82.5°	24.0	23.4	23.3	23.2	22.3	22.3	23.1
85°	12.9	12.4	12.5	12.4	12.4	12.2	12.2
87.5°	10.9	10.9	10.9	11.2	11.2	11.2	11.6
90°	31.6	32.6	33.4	34.0	34.5	35.0	35.5
92.5°	35.4	37.1	38.0	38.3	38.7	39.0	39.3
95°	42.2	44.0	45.0	45.0	45.0	45.0	45.0
97.5°	44.4	46.6	47.8	48.0	48.2	48.6	48.8
100°	45.4	47.5	48.7	49.0	49.2	49.5	49.7
102.5°	58.4	51.8	48.8	49.3	49.7	50.2	50.7
105°	119.6	73.0	50.0	50.5	51.1	51.6	52.1
107.5°	372.9	338.7	304.1	269.0	233.9	198.8	163.7
110°	508.0	499.4	476.2	438.6	400.9	363.3	325.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	594.3	594.5	590.6	582.6	574.6	566.7	558.7
115°	687.7	690.3	692.1	693.2	694.3	695.3	696.4
117.5°	769.4	771.6	772.8	772.9	773.2	773.4	773.6
120°	823.5	825.6	826.6	826.6	826.6	826.6	826.6
122.5°	875.6	877.1	877.9	878.1	878.3	878.5	878.8
125°	949.0	949.5	950.1	950.6	951.1	951.6	952.2
127.5°	1023.9	1024.7	1024.8	1024.4	1023.8	1023.3	1022.8
130°	1069.1	1070.1	1070.3	1069.8	1069.3	1068.7	1068.3
132.5°	1111.7	1112.7	1112.9	1112.1	1111.4	1110.6	1109.9
135°	1176.0	1176.8	1176.8	1176.0	1175.2	1174.4	1173.6
137.5°	1234.1	1235.3	1235.6	1235.2	1234.6	1234.1	1233.6
140°	1270.3	1271.4	1271.7	1271.1	1270.7	1270.1	1269.6
142.5°	1304.8	1305.6	1305.7	1305.0	1304.2	1303.5	1302.7
145°	1352.9	1353.4	1353.7	1353.7	1353.7	1353.7	1353.7
147.5°	1396.2	1396.8	1396.4	1395.2	1394.0	1392.7	1391.5
150°	1422.8	1423.2	1423.2	1422.4	1421.6	1420.8	1420.0
152.5°	1446.8	1447.7	1447.6	1446.4	1445.1	1443.9	1442.7
155°	1479.6	1480.9	1480.7	1479.2	1477.6	1476.0	1474.5
157.5°	1508.1	1509.7	1509.4	1507.4	1505.3	1503.2	1501.2
160°	1524.2	1525.7	1525.7	1523.8	1521.9	1520.1	1518.3
162.5°	1539.1	1540.8	1540.9	1539.3	1537.6	1536.0	1534.4
165°	1558.9	1561.1	1561.2	1559.3	1557.5	1555.6	1553.8
167.5°	1574.1	1576.2	1576.2	1574.1	1572.0	1569.9	1567.8
170°	1582.6	1584.8	1584.8	1582.6	1580.5	1578.4	1576.3
172.5°	1588.3	1590.4	1590.3	1588.0	1585.7	1583.3	1581.0
175°	1594.8	1596.7	1596.6	1594.4	1592.4	1590.2	1588.2
177.5°	1597.2	1598.9	1598.7	1596.6	1594.5	1592.4	1590.3
180°	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0

(END OF REPORT)