

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: P332109-935

Luminaire Tested: **S123DIW-S340D1320U935-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332109-935
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-S340D1320U935-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1320 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5192.4 lumens
Efficiency: N/A
Efficacy: 111.4 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

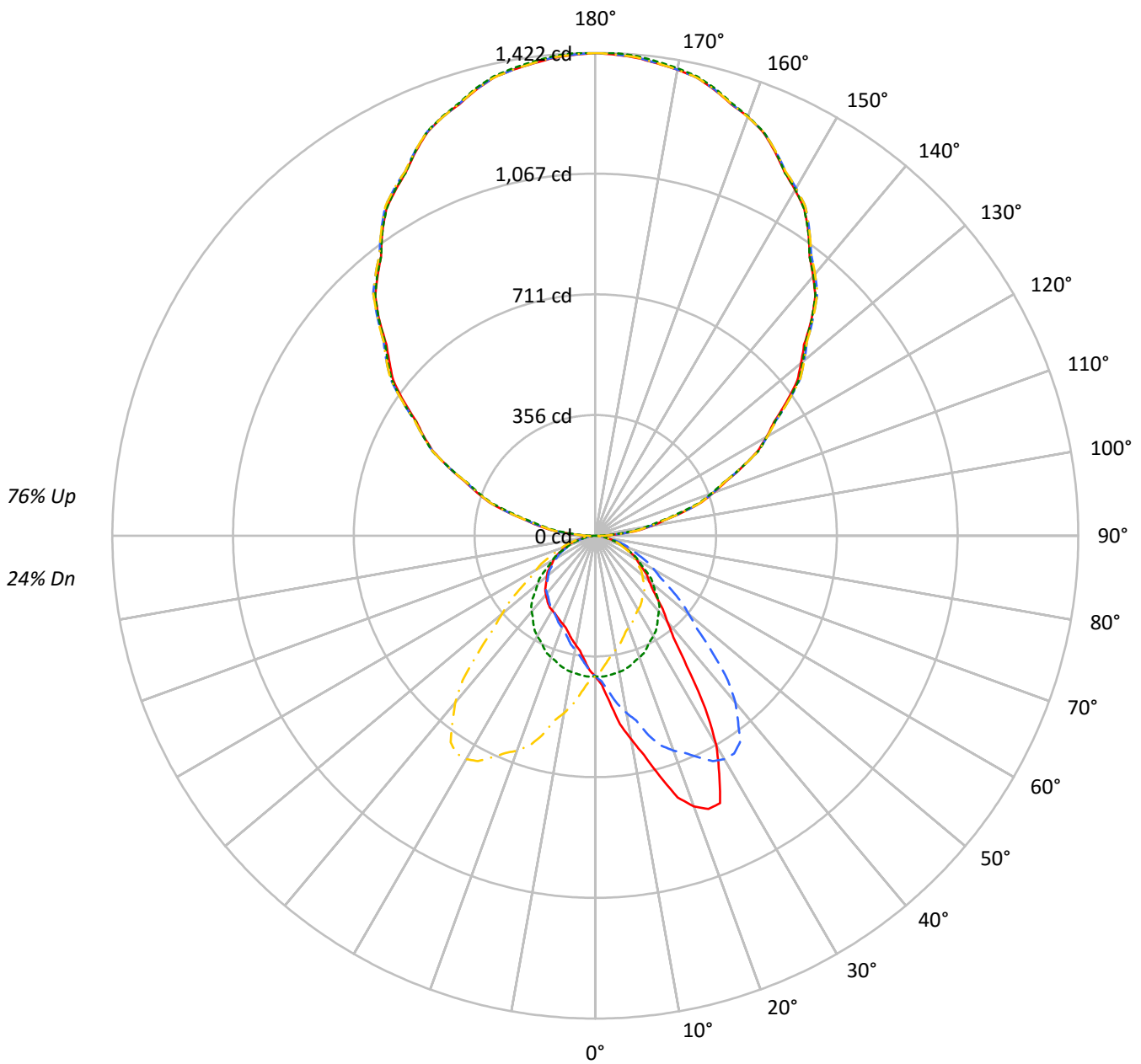
Input Watts (W): 46.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - · - 135°-315°



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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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	32	32	32	24
1	92	88	84	81	82	78	75	73	60	58	57	44	43	42	29	28	27	21
2	84	77	71	66	74	69	64	60	53	50	47	39	37	35	25	24	23	17
3	77	68	61	55	68	60	55	50	47	43	40	34	32	30	23	21	20	15
4	70	60	52	47	62	53	47	42	42	37	34	31	28	25	20	19	17	13
5	64	53	45	40	57	48	41	36	37	32	29	27	24	22	18	16	15	11
6	59	47	40	34	52	43	36	31	33	29	25	25	21	19	17	15	13	10
7	54	43	35	30	48	38	32	27	30	25	22	22	19	17	15	13	12	9
8	50	39	31	26	45	35	28	24	27	23	19	20	17	15	14	12	10	8
9	47	35	28	23	42	32	25	21	25	20	17	19	16	13	13	11	9	7
10	44	32	25	21	39	29	23	19	23	18	15	17	14	12	12	10	9	6

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4456	4456	4456	4456
5°	5314	4475	3965	4475
10°	6652	4453	3583	4453
15°	8158	4416	3335	4416
20°	9718	4361	3175	4361
25°	10320	4292	3139	4292
30°	8846	4243	3156	4243
35°	6151	4172	3189	4172
40°	4634	4089	3180	4089
45°	3847	3965	3139	3965
50°	3446	3716	3110	3716
55°	3222	3445	3072	3445
60°	3023	3160	3040	3160
65°	2840	2881	2942	2881
70°	2662	2565	2801	2565
75°	2383	2246	2570	2246
80°	2089	1841	2213	1841
85°	1643	1334	1494	1334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.8	0.8
10°-20°	130.8	2.5
20°-30°	219.5	4.2
30°-40°	248.5	4.8
40°-50°	222.9	4.3
50°-60°	179.8	3.5
60°-70°	125.3	2.4
70°-80°	65.9	1.3
80°-90°	20.3	0.4
90°-100°	92.6	1.8
100°-110°	277.2	5.3
110°-120°	471.4	9.1
120°-130°	620.1	11.9
130°-140°	697.0	13.4
140°-150°	685.1	13.2
150°-160°	576.8	11.1
160°-170°	383.9	7.4
170°-180°	134.4	2.6
0°-30°	391.0	7.5
0°-40°	639.5	12.3
0°-60°	1042.2	20.1
0°-90°	1253.7	24.1
90°-120°	841.3	16.2
90°-150°	2843.5	54.8
90°-180°	3939.0	75.9
0°-180°	5192.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	414	414	414	414	414	
5°	492	414	367	414	492	51
15°	732	396	299	396	732	211
25°	869	361	264	361	869	381
35°	468	318	243	318	468	304
45°	253	260	206	260	253	200
55°	172	184	164	184	172	154
65°	112	113	116	113	112	111
75°	57	54	62	54	57	61
85°	13	11	12	11	13	17
90°	34	1	34	1	34	17
95°	87	66	87	66	87	89
105°	266	251	266	251	266	282
115°	476	475	476	475	476	471
125°	687	695	687	695	687	614
135°	900	901	900	901	900	692
145°	1093	1093	1093	1093	1093	682
155°	1250	1252	1250	1252	1250	575
165°	1359	1364	1359	1364	1359	383
175°	1413	1418	1413	1418	1413	134
180°	1422	1422	1422	1422	1422	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0
2.5°	439.4	439.0	438.2	438.9	437.6	435.8	435.7	434.0	429.4	429.1	427.8
5°	491.8	490.3	490.0	489.8	487.0	483.2	476.0	475.4	465.7	461.0	455.1
7.5°	559.8	560.6	557.7	555.2	546.6	540.9	533.1	523.2	511.4	499.4	491.5
10°	608.6	615.2	607.0	601.3	596.2	586.3	574.9	560.6	546.4	529.8	517.1
12.5°	660.9	664.1	662.5	657.2	649.1	634.1	613.9	598.1	585.0	557.3	546.1
15°	732.1	744.3	736.5	718.5	718.8	704.6	678.2	649.1	633.6	609.3	576.3
17.5°	808.0	809.5	806.2	791.2	781.2	761.6	737.1	709.3	678.0	648.6	613.5
20°	848.4	847.2	840.2	832.4	815.2	800.0	773.3	742.2	702.1	673.1	634.8
22.5°	870.9	868.9	865.6	859.0	844.7	828.4	804.3	770.4	732.2	692.4	648.2
25°	868.9	871.5	871.9	870.1	865.1	855.3	836.5	809.3	771.3	720.1	674.0
27.5°	790.3	794.0	804.7	814.2	824.8	835.7	834.2	820.8	792.6	748.4	692.0
30°	711.7	703.6	723.5	748.6	765.6	795.7	812.5	813.6	797.7	759.8	704.8
32.5°	602.5	611.4	620.2	651.0	688.3	722.0	755.6	782.6	785.7	760.4	712.4
35°	468.1	479.2	495.2	511.3	551.4	585.9	644.9	696.2	737.1	742.5	713.1
37.5°	377.3	382.7	392.9	409.0	435.1	476.1	521.7	586.6	645.9	690.0	691.9
40°	329.8	331.4	342.8	355.0	376.3	410.0	451.1	508.5	579.5	641.1	666.8
42.5°	294.1	297.6	302.6	314.3	331.2	356.5	394.8	442.2	507.3	578.2	628.4
45°	252.7	256.8	259.8	267.6	279.7	296.7	323.3	366.7	416.2	489.4	557.0
47.5°	225.4	225.7	227.9	233.8	242.0	254.9	273.7	301.5	347.0	406.4	475.8
50°	205.8	209.0	209.8	214.4	220.8	230.2	245.9	269.6	306.9	359.0	422.8
52.5°	192.0	193.0	195.2	198.5	204.1	211.5	225.1	243.6	272.9	317.4	376.0
55°	171.7	171.7	173.9	176.5	179.7	186.3	195.4	209.0	231.3	265.8	314.4
57.5°	152.9	153.9	155.5	156.3	159.0	163.4	170.9	181.3	197.9	224.5	263.0
60°	140.4	142.2	142.0	143.6	146.0	149.5	155.8	164.3	179.1	200.4	232.9
62.5°	129.5	129.4	129.3	131.3	133.6	136.9	141.1	148.4	161.0	179.9	207.5
65°	111.5	111.2	112.5	113.7	114.5	116.9	120.1	126.6	135.0	149.0	170.5
67.5°	95.6	94.4	95.1	95.6	96.9	98.8	101.9	105.8	112.4	123.7	139.9
70°	84.6	83.6	83.4	83.9	85.1	86.4	88.7	92.5	98.7	107.7	119.5
72.5°	73.4	72.8	72.7	73.6	74.1	75.1	76.6	80.1	85.1	91.9	102.9
75°	57.3	57.3	57.3	57.6	58.2	59.0	60.2	62.0	65.8	70.6	78.0
77.5°	43.0	43.0	42.7	42.7	43.6	43.9	44.2	45.9	48.0	51.2	56.7
80°	33.7	32.7	33.1	33.7	34.1	34.3	34.9	35.3	37.1	38.9	42.7
82.5°	25.1	24.2	24.3	25.2	25.3	25.5	26.1	26.6	27.3	28.9	31.0
85°	13.3	13.3	13.4	13.4	13.6	13.4	14.0	14.2	14.2	15.2	16.4
87.5°	11.5	11.1	11.2	11.2	10.9	10.9	10.9	10.9	10.8	10.8	10.3
90°	33.5	33.0	32.5	32.0	31.5	30.7	29.8	28.8	27.8	26.8	23.6
92.5°	45.1	45.4	45.7	46.0	46.3	46.1	45.3	44.4	43.7	42.9	41.1
95°	87.1	87.1	87.1	87.1	87.1	86.6	85.6	84.6	83.6	82.7	80.7
97.5°	134.0	134.1	134.2	134.3	134.4	133.9	132.8	131.6	130.4	129.3	127.9
100°	169.7	169.3	168.8	168.2	167.7	167.1	166.3	165.7	164.9	164.2	162.9
102.5°	206.4	206.5	206.6	206.6	206.7	206.5	205.7	204.9	204.2	203.5	201.8
105°	265.8	265.3	264.8	264.3	263.8	263.6	263.6	263.6	263.6	263.6	261.3
107.5°	327.6	328.0	328.2	328.6	328.8	328.6	327.8	327.0	326.2	325.4	324.5
110°	369.6	370.1	370.7	371.1	371.6	371.3	370.4	369.4	368.4	367.4	366.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	414.3	414.4	414.5	414.6	414.7	414.1	412.9	411.7	410.6	409.4	409.3
115°	475.7	476.0	476.2	476.5	476.7	476.7	476.5	476.2	476.0	475.7	476.2
117.5°	538.0	538.7	539.4	540.1	540.8	541.1	541.2	541.3	541.3	541.4	542.0
120°	581.8	582.3	582.8	583.3	583.8	584.2	584.4	584.6	584.9	585.1	586.4
122.5°	623.8	624.5	625.2	625.9	626.5	627.2	627.8	628.5	629.1	629.8	630.4
125°	686.7	687.8	688.7	689.7	690.8	691.7	692.8	693.7	694.7	695.7	696.2
127.5°	749.5	750.7	751.8	752.9	754.1	755.4	756.7	758.1	759.5	761.0	761.5
130°	790.7	792.4	794.1	795.8	797.5	798.9	800.0	800.9	801.9	802.9	803.7
132.5°	833.5	834.8	836.2	837.5	838.9	840.2	841.3	842.5	843.7	844.9	845.4
135°	900.1	900.5	901.0	901.6	902.1	902.8	903.8	904.7	905.8	906.7	907.0
137.5°	958.8	959.8	960.7	961.7	962.6	963.5	964.6	965.6	966.6	967.8	967.1
140°	997.2	998.9	1000.7	1002.5	1004.2	1005.1	1005.4	1005.6	1005.9	1006.2	1005.9
142.5°	1036.6	1037.8	1039.2	1040.5	1041.9	1042.7	1042.9	1043.2	1043.4	1043.7	1043.2
145°	1093.2	1094.2	1095.2	1096.2	1097.3	1097.9	1098.1	1098.3	1098.5	1098.8	1098.1
147.5°	1143.8	1145.2	1146.7	1148.2	1149.7	1150.4	1150.4	1150.4	1150.4	1150.4	1149.7
150°	1175.9	1177.3	1178.9	1180.3	1181.8	1182.6	1182.6	1182.6	1182.6	1182.6	1182.1
152.5°	1207.1	1208.4	1209.7	1211.0	1212.3	1212.7	1212.4	1211.9	1211.6	1211.2	1210.9
155°	1249.6	1251.3	1253.1	1254.8	1256.5	1256.9	1255.9	1254.9	1254.0	1252.9	1252.7
157.5°	1288.2	1289.6	1291.0	1292.4	1293.7	1294.0	1292.9	1291.8	1290.8	1289.8	1289.6
160°	1313.2	1314.2	1315.3	1316.2	1317.2	1317.1	1315.9	1314.6	1313.4	1312.1	1312.1
162.5°	1332.0	1333.6	1335.2	1336.8	1338.3	1338.5	1337.3	1336.0	1334.8	1333.5	1333.3
165°	1359.0	1360.7	1362.5	1364.3	1366.0	1366.1	1364.6	1363.1	1361.6	1360.1	1360.1
167.5°	1382.0	1383.5	1385.1	1386.6	1388.2	1388.2	1386.6	1385.1	1383.5	1382.0	1381.8
170°	1393.6	1395.3	1397.1	1398.9	1400.6	1400.6	1398.9	1397.1	1395.3	1393.6	1393.6
172.5°	1402.6	1404.3	1406.0	1407.8	1409.5	1409.6	1408.1	1406.5	1405.0	1403.4	1403.4
175°	1412.6	1414.4	1416.1	1417.8	1419.5	1419.7	1418.2	1416.7	1415.2	1413.8	1413.8
177.5°	1418.0	1419.4	1420.7	1422.1	1423.6	1423.7	1422.5	1421.3	1420.0	1418.8	1418.8
180°	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0
2.5°	426.8	425.6	424.3	422.1	420.1	417.4	416.6	415.6	412.7	410.2	408.2
5°	452.9	448.1	441.1	434.6	429.5	422.4	418.4	414.2	408.2	402.8	398.4
7.5°	480.2	470.7	459.8	448.1	437.0	426.5	417.9	410.3	401.8	393.9	387.6
10°	501.9	488.2	472.9	456.5	442.5	428.9	417.4	407.4	396.6	387.1	379.3
12.5°	526.6	506.4	485.3	465.4	448.8	429.8	415.9	403.2	390.9	379.6	370.8
15°	555.8	530.1	505.2	477.8	452.5	428.9	412.4	396.3	382.1	370.5	359.2
17.5°	582.5	553.4	520.6	487.2	456.7	428.6	405.6	387.4	369.6	355.4	344.2
20°	597.5	564.5	527.4	492.7	458.9	427.7	402.3	380.7	361.4	346.4	333.8
22.5°	610.5	571.8	533.4	496.3	458.7	425.1	396.4	374.1	353.3	338.5	325.1
25°	624.1	577.6	539.2	495.7	453.7	418.8	386.8	361.4	340.6	323.3	309.5
27.5°	635.6	577.3	531.6	484.7	445.7	410.8	376.5	349.4	327.3	308.5	294.5
30°	643.3	578.1	523.7	477.4	438.1	402.0	368.7	341.4	318.1	299.1	285.9
32.5°	648.1	577.6	516.5	467.1	425.9	393.9	360.2	331.9	308.0	289.3	276.6
35°	650.9	574.0	504.0	445.9	406.2	375.1	346.8	317.5	292.5	275.0	260.5
37.5°	645.2	566.6	489.7	425.4	381.9	351.4	327.5	302.6	278.6	259.4	246.9
40°	636.5	561.8	478.4	411.0	365.2	335.8	315.6	291.0	267.3	249.1	237.5
42.5°	619.6	552.1	466.1	394.9	347.9	318.5	299.8	279.3	256.9	239.8	228.2
45°	578.5	530.7	447.5	370.9	322.4	291.9	275.4	260.5	240.3	223.7	213.6
47.5°	521.4	498.7	420.7	345.5	295.6	266.3	249.2	237.3	222.5	209.0	199.4
50°	481.8	472.3	402.6	328.1	277.8	249.1	232.6	221.9	211.2	197.8	189.0
52.5°	436.1	441.9	381.4	310.2	259.7	231.4	216.0	207.4	197.8	186.7	179.0
55°	371.7	392.7	344.8	280.0	232.6	205.8	191.1	183.6	177.9	169.7	163.1
57.5°	311.4	338.2	305.2	248.9	206.1	183.0	168.9	160.7	157.0	152.7	147.5
60°	275.6	302.0	277.0	228.1	188.4	166.3	153.9	146.8	143.2	140.2	135.8
62.5°	243.7	270.4	249.4	206.9	170.8	150.4	139.6	132.7	129.9	128.4	124.6
65°	199.8	222.8	208.8	173.9	145.9	127.8	118.0	113.1	110.6	109.9	107.5
67.5°	162.6	180.1	170.0	144.2	122.2	106.6	98.2	94.1	92.1	91.9	90.1
70°	138.2	154.6	146.8	123.6	104.5	92.3	85.1	81.5	80.2	80.1	79.0
72.5°	119.2	130.7	124.5	105.1	90.4	79.3	74.0	70.2	68.9	69.1	68.4
75°	88.3	96.9	93.2	79.8	68.0	60.8	56.4	54.0	52.8	53.4	52.5
77.5°	63.5	69.0	65.7	56.4	49.1	43.9	40.6	39.2	38.1	38.1	37.7
80°	48.0	51.1	49.3	43.7	37.7	33.3	30.7	29.7	29.1	28.8	28.7
82.5°	34.2	36.9	34.7	30.9	26.8	24.1	22.6	21.4	20.9	21.0	20.8
85°	17.2	18.3	17.5	15.1	13.4	12.2	11.5	10.8	10.4	10.6	10.2
87.5°	10.0	9.6	8.4	7.1	6.4	5.4	4.9	4.0	4.2	4.7	5.1
90°	20.3	17.1	13.9	11.0	8.5	6.1	3.6	1.1	3.6	6.1	8.5
92.5°	39.2	37.4	35.6	33.8	32.1	30.4	28.7	27.0	28.7	30.4	32.1
95°	78.7	76.7	74.7	72.8	71.1	69.4	67.6	65.9	67.6	69.4	71.1
97.5°	126.4	125.0	123.6	122.2	120.9	119.6	118.3	117.0	118.3	119.6	120.9
100°	161.7	160.4	159.2	157.8	156.4	154.8	153.3	151.9	153.3	154.8	156.4
102.5°	200.2	198.5	196.9	195.6	194.8	193.9	193.0	192.1	193.0	193.9	194.8
105°	259.1	256.8	254.6	253.2	252.7	252.3	251.8	251.2	251.8	252.3	252.7
107.5°	323.6	322.7	321.8	321.2	321.0	320.6	320.4	320.0	320.4	320.6	321.0
110°	366.4	365.9	365.4	364.9	364.4	363.9	363.4	362.9	363.4	363.9	364.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	409.1	409.1	409.0	408.8	408.5	408.2	407.9	407.6	407.9	408.2	408.5
115°	476.7	477.2	477.7	477.6	476.8	476.0	475.4	474.6	475.4	476.0	476.8
117.5°	542.7	543.3	544.0	544.1	543.5	543.0	542.5	542.1	542.5	543.0	543.5
120°	587.6	588.8	590.1	590.0	588.5	587.0	585.5	584.0	585.5	587.0	588.5
122.5°	631.1	631.7	632.4	632.1	631.1	630.0	628.9	627.8	628.9	630.0	631.1
125°	696.7	697.2	697.7	697.6	696.8	696.0	695.3	694.6	695.3	696.0	696.8
127.5°	762.0	762.6	763.1	762.6	761.0	759.4	757.9	756.2	757.9	759.4	761.0
130°	804.4	805.1	805.9	805.3	803.3	801.3	799.3	797.3	799.3	801.3	803.3
132.5°	846.0	846.5	847.1	846.4	844.4	842.4	840.4	838.4	840.4	842.4	844.4
135°	907.2	907.5	907.8	907.1	905.6	904.1	902.7	901.2	902.7	904.1	905.6
137.5°	966.5	965.8	965.2	964.2	962.9	961.7	960.4	959.2	960.4	961.7	962.9
140°	1005.6	1005.4	1005.1	1004.4	1003.2	1001.9	1000.7	999.4	1000.7	1001.9	1003.2
142.5°	1042.8	1042.3	1041.9	1041.0	1039.8	1038.5	1037.3	1036.0	1037.3	1038.5	1039.8
145°	1097.3	1096.6	1095.9	1095.2	1094.8	1094.2	1093.7	1093.2	1093.7	1094.2	1094.8
147.5°	1149.0	1148.3	1147.6	1146.9	1146.0	1145.0	1144.2	1143.2	1144.2	1145.0	1146.0
150°	1181.6	1181.1	1180.6	1180.1	1179.6	1179.1	1178.6	1178.1	1178.6	1179.1	1179.6
152.5°	1210.6	1210.3	1210.0	1209.4	1208.8	1208.1	1207.4	1206.7	1207.4	1208.1	1208.8
155°	1252.4	1252.2	1252.0	1251.8	1251.8	1251.8	1251.8	1251.8	1251.8	1251.8	1251.8
157.5°	1289.3	1289.2	1289.0	1289.0	1289.3	1289.6	1290.0	1290.2	1290.0	1289.6	1289.3
160°	1312.1	1312.1	1312.1	1312.3	1312.9	1313.4	1313.9	1314.3	1313.9	1313.4	1312.9
162.5°	1333.2	1333.0	1332.7	1333.0	1333.7	1334.4	1335.1	1335.8	1335.1	1334.4	1333.7
165°	1360.1	1360.1	1360.1	1360.6	1361.2	1362.0	1362.7	1363.5	1362.7	1362.0	1361.2
167.5°	1381.6	1381.4	1381.2	1381.6	1382.6	1383.6	1384.6	1385.6	1384.6	1383.6	1382.6
170°	1393.6	1393.6	1393.6	1394.1	1395.2	1396.1	1397.1	1398.1	1397.1	1396.1	1395.2
172.5°	1403.4	1403.4	1403.4	1403.9	1405.0	1405.9	1407.0	1407.9	1407.0	1405.9	1405.0
175°	1413.8	1413.8	1413.8	1414.2	1415.2	1416.3	1417.2	1418.2	1417.2	1416.3	1415.2
177.5°	1418.8	1418.8	1418.8	1419.3	1420.0	1420.8	1421.7	1422.5	1421.7	1420.8	1420.0
180°	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6



TEST NUMBER: P332109-935

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0
2.5°	407.1	406.0	404.4	402.0	400.0	397.0	397.0	397.4	397.4	397.4	397.0
5°	394.8	391.8	388.1	383.9	379.5	375.1	374.3	372.6	371.5	370.7	369.7
7.5°	381.7	376.3	371.1	365.2	359.8	355.4	352.3	349.7	348.1	346.3	345.0
10°	372.9	366.3	360.1	353.9	347.0	341.6	338.2	335.8	334.0	332.3	331.6
12.5°	362.5	354.9	348.0	342.1	334.7	329.1	325.8	324.7	322.6	319.2	317.5
15°	347.2	340.2	332.0	323.0	319.3	312.5	308.7	306.9	305.7	303.1	302.3
17.5°	334.2	325.0	315.7	309.0	302.3	296.8	294.6	292.4	290.8	288.7	288.0
20°	323.7	315.6	307.1	299.9	292.8	286.8	285.0	283.4	281.8	280.9	280.0
22.5°	313.1	305.0	297.9	291.2	283.7	279.7	277.8	276.0	274.9	274.2	273.5
25°	298.3	291.0	283.2	277.2	271.2	268.5	267.3	266.4	265.5	264.6	264.3
27.5°	285.0	277.1	270.8	265.1	260.8	258.6	257.4	257.0	257.2	257.5	257.8
30°	275.0	267.8	262.6	257.8	253.7	251.8	251.5	251.5	252.4	252.5	253.0
32.5°	265.9	259.9	254.7	250.0	247.0	245.6	246.4	246.4	247.0	247.5	248.3
35°	252.5	247.3	243.3	239.3	236.7	237.3	237.7	238.1	239.1	240.3	241.1
37.5°	239.8	235.3	231.1	228.0	226.8	227.8	228.9	229.6	230.8	231.8	232.6
40°	230.7	227.2	223.3	220.4	220.8	221.4	222.2	223.3	224.3	224.9	225.7
42.5°	222.1	218.6	215.5	213.2	213.8	214.6	215.0	215.5	216.7	217.8	218.3
45°	209.2	206.4	203.6	202.2	202.6	203.0	203.4	204.0	205.0	205.8	206.0
47.5°	194.7	192.7	190.8	189.4	190.1	189.9	190.5	191.7	192.0	192.5	193.6
50°	185.4	183.6	181.3	180.9	180.9	180.9	181.2	182.7	182.7	183.6	184.3
52.5°	175.0	173.9	172.5	171.8	171.4	171.4	172.3	173.1	173.4	174.5	175.4
55°	159.9	158.7	157.5	156.9	156.4	156.9	158.4	158.9	159.9	160.5	161.1
57.5°	144.0	143.1	142.2	141.8	141.7	142.2	143.1	144.3	144.6	146.5	147.3
60°	133.6	132.2	131.4	131.4	131.0	132.8	132.4	134.4	134.8	136.0	137.4
62.5°	122.9	121.0	120.6	120.6	121.2	121.7	122.3	123.1	124.2	125.7	126.8
65°	105.5	104.5	105.9	105.7	105.3	106.5	106.5	107.5	108.7	110.1	112.4
67.5°	89.1	88.6	88.7	88.7	89.3	90.0	90.6	91.4	92.9	94.4	95.8
70°	78.0	78.6	77.7	78.4	79.0	79.2	79.6	80.8	82.4	83.4	85.1
72.5°	67.2	67.2	67.3	67.7	68.3	68.6	69.1	70.4	72.2	73.0	74.3
75°	51.7	51.6	52.2	52.2	53.1	53.6	54.0	54.6	56.1	57.3	58.4
77.5°	37.8	38.1	37.9	38.6	38.3	38.4	39.6	40.2	40.4	42.8	43.3
80°	28.5	28.8	29.1	29.3	29.4	29.1	30.5	31.1	31.1	32.5	33.5
82.5°	20.5	20.7	21.2	21.4	21.4	21.9	22.0	22.4	22.9	23.5	24.8
85°	10.2	10.8	11.0	10.8	11.0	10.6	11.2	11.5	11.6	11.6	11.6
87.5°	5.4	6.1	6.6	7.4	7.9	8.7	9.0	8.8	9.0	9.6	9.2
90°	11.0	13.9	17.1	20.3	23.6	26.8	27.8	28.8	29.8	30.7	31.5
92.5°	33.8	35.6	37.4	39.2	41.1	42.9	43.7	44.4	45.3	46.1	46.3
95°	72.8	74.7	76.7	78.7	80.7	82.7	83.6	84.6	85.6	86.6	87.1
97.5°	122.2	123.6	125.0	126.4	127.9	129.3	130.4	131.6	132.8	133.9	134.4
100°	157.8	159.2	160.4	161.7	162.9	164.2	164.9	165.7	166.3	167.1	167.7
102.5°	195.6	196.9	198.5	200.2	201.8	203.5	204.2	204.9	205.7	206.5	206.7
105°	253.2	254.6	256.8	259.1	261.3	263.6	263.6	263.6	263.6	263.6	263.8
107.5°	321.2	321.8	322.7	323.6	324.5	325.4	326.2	327.0	327.8	328.6	328.8
110°	364.9	365.4	365.9	366.4	366.9	367.4	368.4	369.4	370.4	371.3	371.6



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	408.8	409.0	409.1	409.1	409.3	409.4	410.6	411.7	412.9	414.1	414.7
115°	477.6	477.7	477.2	476.7	476.2	475.7	476.0	476.2	476.5	476.7	476.7
117.5°	544.1	544.0	543.3	542.7	542.0	541.4	541.3	541.3	541.2	541.1	540.8
120°	590.0	590.1	588.8	587.6	586.4	585.1	584.9	584.6	584.4	584.2	583.8
122.5°	632.1	632.4	631.7	631.1	630.4	629.8	629.1	628.5	627.8	627.2	626.5
125°	697.6	697.7	697.2	696.7	696.2	695.7	694.7	693.7	692.8	691.7	690.8
127.5°	762.6	763.1	762.6	762.0	761.5	761.0	759.5	758.1	756.7	755.4	754.1
130°	805.3	805.9	805.1	804.4	803.7	802.9	801.9	800.9	800.0	798.9	797.5
132.5°	846.4	847.1	846.5	846.0	845.4	844.9	843.7	842.5	841.3	840.2	838.9
135°	907.1	907.8	907.5	907.2	907.0	906.7	905.8	904.7	903.8	902.8	902.1
137.5°	964.2	965.2	965.8	966.5	967.1	967.8	966.6	965.6	964.6	963.5	962.6
140°	1004.4	1005.1	1005.4	1005.6	1005.9	1006.2	1005.9	1005.6	1005.4	1005.1	1004.2
142.5°	1041.0	1041.9	1042.3	1042.8	1043.2	1043.7	1043.4	1043.2	1042.9	1042.7	1041.9
145°	1095.2	1095.9	1096.6	1097.3	1098.1	1098.8	1098.5	1098.3	1098.1	1097.9	1097.3
147.5°	1146.9	1147.6	1148.3	1149.0	1149.7	1150.4	1150.4	1150.4	1150.4	1150.4	1149.7
150°	1180.1	1180.6	1181.1	1181.6	1182.1	1182.6	1182.6	1182.6	1182.6	1182.6	1181.8
152.5°	1209.4	1210.0	1210.3	1210.6	1210.9	1211.2	1211.6	1211.9	1212.4	1212.7	1212.3
155°	1251.8	1252.0	1252.2	1252.4	1252.7	1252.9	1254.0	1254.9	1255.9	1256.9	1256.5
157.5°	1289.0	1289.0	1289.2	1289.3	1289.6	1289.8	1290.8	1291.8	1292.9	1294.0	1293.7
160°	1312.3	1312.1	1312.1	1312.1	1312.1	1312.1	1313.4	1314.6	1315.9	1317.1	1317.2
162.5°	1333.0	1332.7	1333.0	1333.2	1333.3	1333.5	1334.8	1336.0	1337.3	1338.5	1338.3
165°	1360.6	1360.1	1360.1	1360.1	1360.1	1360.1	1361.6	1363.1	1364.6	1366.1	1366.0
167.5°	1381.6	1381.2	1381.4	1381.6	1381.8	1382.0	1383.5	1385.1	1386.6	1388.2	1388.2
170°	1394.1	1393.6	1393.6	1393.6	1393.6	1393.6	1395.3	1397.1	1398.9	1400.6	1400.6
172.5°	1403.9	1403.4	1403.4	1403.4	1403.4	1403.4	1405.0	1406.5	1408.1	1409.6	1409.5
175°	1414.2	1413.8	1413.8	1413.8	1413.8	1413.8	1415.2	1416.7	1418.2	1419.7	1419.5
177.5°	1419.3	1418.8	1418.8	1418.8	1418.8	1418.8	1420.0	1421.3	1422.5	1423.7	1423.6
180°	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0
2.5°	395.9	395.7	396.8	396.1	396.8	395.7	395.9	397.0	397.4	397.4	397.4
5°	368.5	369.1	367.0	367.0	367.0	369.1	368.5	369.7	370.7	371.5	372.6
7.5°	344.1	343.2	343.3	342.2	343.3	343.2	344.1	345.0	346.3	348.1	349.7
10°	329.2	328.0	327.5	327.8	327.5	328.0	329.2	331.6	332.3	334.0	335.8
12.5°	316.8	316.6	313.9	313.9	313.9	316.6	316.8	317.5	319.2	322.6	324.7
15°	302.3	298.5	298.1	299.3	298.1	298.5	302.3	302.3	303.1	305.7	306.9
17.5°	287.7	285.7	285.9	285.2	285.9	285.7	287.7	288.0	288.7	290.8	292.4
20°	280.0	278.8	278.6	277.2	278.6	278.8	280.0	280.0	280.9	281.8	283.4
22.5°	272.9	272.6	272.7	271.1	272.7	272.6	272.9	273.5	274.2	274.9	276.0
25°	264.2	265.2	264.3	264.3	264.3	265.2	264.2	264.3	264.6	265.5	266.4
27.5°	258.2	258.2	257.8	257.8	257.8	258.2	258.2	257.8	257.5	257.2	257.0
30°	253.7	253.6	253.9	253.9	253.9	253.6	253.7	253.0	252.5	252.4	251.5
32.5°	249.3	249.5	249.6	249.8	249.6	249.5	249.3	248.3	247.5	247.0	246.4
35°	242.3	242.5	243.1	242.7	243.1	242.5	242.3	241.1	240.3	239.1	238.1
37.5°	232.9	233.8	233.7	233.9	233.7	233.8	232.9	232.6	231.8	230.8	229.6
40°	225.8	226.4	226.3	226.3	226.3	226.4	225.8	225.7	224.9	224.3	223.3
42.5°	218.6	219.0	218.5	218.3	218.5	219.0	218.6	218.3	217.8	216.7	215.5
45°	206.8	206.4	207.0	206.2	207.0	206.4	206.8	206.0	205.8	205.0	204.0
47.5°	193.6	194.0	194.2	194.8	194.2	194.0	193.6	193.6	192.5	192.0	191.7
50°	184.8	186.0	186.0	185.7	186.0	186.0	184.8	184.3	183.6	182.7	182.7
52.5°	176.1	176.6	177.5	177.4	177.5	176.6	176.1	175.4	174.5	173.4	173.1
55°	162.6	163.1	163.5	163.7	163.5	163.1	162.6	161.1	160.5	159.9	158.9
57.5°	148.8	148.6	149.6	149.9	149.6	148.6	148.8	147.3	146.5	144.6	144.3
60°	139.0	139.0	140.6	141.2	140.6	139.0	139.0	137.4	136.0	134.8	134.4
62.5°	128.5	129.2	130.8	130.0	130.8	129.2	128.5	126.8	125.7	124.2	123.1
65°	113.3	114.9	114.8	115.5	114.8	114.9	113.3	112.4	110.1	108.7	107.5
67.5°	97.4	98.4	99.9	100.0	99.9	98.4	97.4	95.8	94.4	92.9	91.4
70°	86.6	87.6	88.4	89.0	88.4	87.6	86.6	85.1	83.4	82.4	80.8
72.5°	76.2	76.7	78.7	77.8	78.7	76.7	76.2	74.3	73.0	72.2	70.4
75°	59.8	61.2	62.4	61.8	62.4	61.2	59.8	58.4	57.3	56.1	54.6
77.5°	44.2	45.6	46.1	45.6	46.1	45.6	44.2	43.3	42.8	40.4	40.2
80°	34.9	34.7	35.9	35.7	35.9	34.7	34.9	33.5	32.5	31.1	31.1
82.5°	25.6	25.4	25.9	26.1	25.9	25.4	25.6	24.8	23.5	22.9	22.4
85°	12.4	13.0	12.2	12.1	12.2	13.0	12.4	11.6	11.6	11.6	11.5
87.5°	9.3	9.4	9.3	9.3	9.3	9.4	9.3	9.2	9.6	9.0	8.8
90°	32.0	32.5	33.0	33.5	33.0	32.5	32.0	31.5	30.7	29.8	28.8
92.5°	46.0	45.7	45.4	45.1	45.4	45.7	46.0	46.3	46.1	45.3	44.4
95°	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	86.6	85.6	84.6
97.5°	134.3	134.2	134.1	134.0	134.1	134.2	134.3	134.4	133.9	132.8	131.6
100°	168.2	168.8	169.3	169.7	169.3	168.8	168.2	167.7	167.1	166.3	165.7
102.5°	206.6	206.6	206.5	206.4	206.5	206.6	206.6	206.7	206.5	205.7	204.9
105°	264.3	264.8	265.3	265.8	265.3	264.8	264.3	263.8	263.6	263.6	263.6
107.5°	328.6	328.2	328.0	327.6	328.0	328.2	328.6	328.8	328.6	327.8	327.0
110°	371.1	370.7	370.1	369.6	370.1	370.7	371.1	371.6	371.3	370.4	369.4



TEST NUMBER: P332109-935

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	414.6	414.5	414.4	414.3	414.4	414.5	414.6	414.7	414.1	412.9	411.7
115°	476.5	476.2	476.0	475.7	476.0	476.2	476.5	476.7	476.7	476.5	476.2
117.5°	540.1	539.4	538.7	538.0	538.7	539.4	540.1	540.8	541.1	541.2	541.3
120°	583.3	582.8	582.3	581.8	582.3	582.8	583.3	583.8	584.2	584.4	584.6
122.5°	625.9	625.2	624.5	623.8	624.5	625.2	625.9	626.5	627.2	627.8	628.5
125°	689.7	688.7	687.8	686.7	687.8	688.7	689.7	690.8	691.7	692.8	693.7
127.5°	752.9	751.8	750.7	749.5	750.7	751.8	752.9	754.1	755.4	756.7	758.1
130°	795.8	794.1	792.4	790.7	792.4	794.1	795.8	797.5	798.9	800.0	800.9
132.5°	837.5	836.2	834.8	833.5	834.8	836.2	837.5	838.9	840.2	841.3	842.5
135°	901.6	901.0	900.5	900.1	900.5	901.0	901.6	902.1	902.8	903.8	904.7
137.5°	961.7	960.7	959.8	958.8	959.8	960.7	961.7	962.6	963.5	964.6	965.6
140°	1002.5	1000.7	998.9	997.2	998.9	1000.7	1002.5	1004.2	1005.1	1005.4	1005.6
142.5°	1040.5	1039.2	1037.8	1036.6	1037.8	1039.2	1040.5	1041.9	1042.7	1042.9	1043.2
145°	1096.2	1095.2	1094.2	1093.2	1094.2	1095.2	1096.2	1097.3	1097.9	1098.1	1098.3
147.5°	1148.2	1146.7	1145.2	1143.8	1145.2	1146.7	1148.2	1149.7	1150.4	1150.4	1150.4
150°	1180.3	1178.9	1177.3	1175.9	1177.3	1178.9	1180.3	1181.8	1182.6	1182.6	1182.6
152.5°	1211.0	1209.7	1208.4	1207.1	1208.4	1209.7	1211.0	1212.3	1212.7	1212.4	1211.9
155°	1254.8	1253.1	1251.3	1249.6	1251.3	1253.1	1254.8	1256.5	1256.9	1255.9	1254.9
157.5°	1292.4	1291.0	1289.6	1288.2	1289.6	1291.0	1292.4	1293.7	1294.0	1292.9	1291.8
160°	1316.2	1315.3	1314.2	1313.2	1314.2	1315.3	1316.2	1317.2	1317.1	1315.9	1314.6
162.5°	1336.8	1335.2	1333.6	1332.0	1333.6	1335.2	1336.8	1338.3	1338.5	1337.3	1336.0
165°	1364.3	1362.5	1360.7	1359.0	1360.7	1362.5	1364.3	1366.0	1366.1	1364.6	1363.1
167.5°	1386.6	1385.1	1383.5	1382.0	1383.5	1385.1	1386.6	1388.2	1388.2	1386.6	1385.1
170°	1398.9	1397.1	1395.3	1393.6	1395.3	1397.1	1398.9	1400.6	1400.6	1398.9	1397.1
172.5°	1407.8	1406.0	1404.3	1402.6	1404.3	1406.0	1407.8	1409.5	1409.6	1408.1	1406.5
175°	1417.8	1416.1	1414.4	1412.6	1414.4	1416.1	1417.8	1419.5	1419.7	1418.2	1416.7
177.5°	1422.1	1420.7	1419.4	1418.0	1419.4	1420.7	1422.1	1423.6	1423.7	1422.5	1421.3
180°	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6



TEST NUMBER: P332109-935

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0
2.5°	397.0	397.0	400.0	402.0	404.4	406.0	407.1	408.2	410.2	412.7	415.6
5°	374.3	375.1	379.5	383.9	388.1	391.8	394.8	398.4	402.8	408.2	414.2
7.5°	352.3	355.4	359.8	365.2	371.1	376.3	381.7	387.6	393.9	401.8	410.3
10°	338.2	341.6	347.0	353.9	360.1	366.3	372.9	379.3	387.1	396.6	407.4
12.5°	325.8	329.1	334.7	342.1	348.0	354.9	362.5	370.8	379.6	390.9	403.2
15°	308.7	312.5	319.3	323.0	332.0	340.2	347.2	359.2	370.5	382.1	396.3
17.5°	294.6	296.8	302.3	309.0	315.7	325.0	334.2	344.2	355.4	369.6	387.4
20°	285.0	286.8	292.8	299.9	307.1	315.6	323.7	333.8	346.4	361.4	380.7
22.5°	277.8	279.7	283.7	291.2	297.9	305.0	313.1	325.1	338.5	353.3	374.1
25°	267.3	268.5	271.2	277.2	283.2	291.0	298.3	309.5	323.3	340.6	361.4
27.5°	257.4	258.6	260.8	265.1	270.8	277.1	285.0	294.5	308.5	327.3	349.4
30°	251.5	251.8	253.7	257.8	262.6	267.8	275.0	285.9	299.1	318.1	341.4
32.5°	246.4	245.6	247.0	250.0	254.7	259.9	265.9	276.6	289.3	308.0	331.9
35°	237.7	237.3	236.7	239.3	243.3	247.3	252.5	260.5	275.0	292.5	317.5
37.5°	228.9	227.8	226.8	228.0	231.1	235.3	239.8	246.9	259.4	278.6	302.6
40°	222.2	221.4	220.8	220.4	223.3	227.2	230.7	237.5	249.1	267.3	291.0
42.5°	215.0	214.6	213.8	213.2	215.5	218.6	222.1	228.2	239.8	256.9	279.3
45°	203.4	203.0	202.6	202.2	203.6	206.4	209.2	213.6	223.7	240.3	260.5
47.5°	190.5	189.9	190.1	189.4	190.8	192.7	194.7	199.4	209.0	222.5	237.3
50°	181.2	180.9	180.9	180.9	181.3	183.6	185.4	189.0	197.8	211.2	221.9
52.5°	172.3	171.4	171.4	171.8	172.5	173.9	175.0	179.0	186.7	197.8	207.4
55°	158.4	156.9	156.4	156.9	157.5	158.7	159.9	163.1	169.7	177.9	183.6
57.5°	143.1	142.2	141.7	141.8	142.2	143.1	144.0	147.5	152.7	157.0	160.7
60°	132.4	132.8	131.0	131.4	131.4	132.2	133.6	135.8	140.2	143.2	146.8
62.5°	122.3	121.7	121.2	120.6	120.6	121.0	122.9	124.6	128.4	129.9	132.7
65°	106.5	106.5	105.3	105.7	105.9	104.5	105.5	107.5	109.9	110.6	113.1
67.5°	90.6	90.0	89.3	88.7	88.7	88.6	89.1	90.1	91.9	92.1	94.1
70°	79.6	79.2	79.0	78.4	77.7	78.6	78.0	79.0	80.1	80.2	81.5
72.5°	69.1	68.6	68.3	67.7	67.3	67.2	67.2	68.4	69.1	68.9	70.2
75°	54.0	53.6	53.1	52.2	52.2	51.6	51.7	52.5	53.4	52.8	54.0
77.5°	39.6	38.4	38.3	38.6	37.9	38.1	37.8	37.7	38.1	38.1	39.2
80°	30.5	29.1	29.4	29.3	29.1	28.8	28.5	28.7	28.8	29.1	29.7
82.5°	22.0	21.9	21.4	21.4	21.2	20.7	20.5	20.8	21.0	20.9	21.4
85°	11.2	10.6	11.0	10.8	11.0	10.8	10.2	10.2	10.6	10.4	10.8
87.5°	9.0	8.7	7.9	7.4	6.6	6.1	5.4	5.1	4.7	4.2	4.0
90°	27.8	26.8	23.6	20.3	17.1	13.9	11.0	8.5	6.1	3.6	1.1
92.5°	43.7	42.9	41.1	39.2	37.4	35.6	33.8	32.1	30.4	28.7	27.0
95°	83.6	82.7	80.7	78.7	76.7	74.7	72.8	71.1	69.4	67.6	65.9
97.5°	130.4	129.3	127.9	126.4	125.0	123.6	122.2	120.9	119.6	118.3	117.0
100°	164.9	164.2	162.9	161.7	160.4	159.2	157.8	156.4	154.8	153.3	151.9
102.5°	204.2	203.5	201.8	200.2	198.5	196.9	195.6	194.8	193.9	193.0	192.1
105°	263.6	263.6	261.3	259.1	256.8	254.6	253.2	252.7	252.3	251.8	251.2
107.5°	326.2	325.4	324.5	323.6	322.7	321.8	321.2	321.0	320.6	320.4	320.0
110°	368.4	367.4	366.9	366.4	365.9	365.4	364.9	364.4	363.9	363.4	362.9



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	410.6	409.4	409.3	409.1	409.1	409.0	408.8	408.5	408.2	407.9	407.6
115°	476.0	475.7	476.2	476.7	477.2	477.7	477.6	476.8	476.0	475.4	474.6
117.5°	541.3	541.4	542.0	542.7	543.3	544.0	544.1	543.5	543.0	542.5	542.1
120°	584.9	585.1	586.4	587.6	588.8	590.1	590.0	588.5	587.0	585.5	584.0
122.5°	629.1	629.8	630.4	631.1	631.7	632.4	632.1	631.1	630.0	628.9	627.8
125°	694.7	695.7	696.2	696.7	697.2	697.7	697.6	696.8	696.0	695.3	694.6
127.5°	759.5	761.0	761.5	762.0	762.6	763.1	762.6	761.0	759.4	757.9	756.2
130°	801.9	802.9	803.7	804.4	805.1	805.9	805.3	803.3	801.3	799.3	797.3
132.5°	843.7	844.9	845.4	846.0	846.5	847.1	846.4	844.4	842.4	840.4	838.4
135°	905.8	906.7	907.0	907.2	907.5	907.8	907.1	905.6	904.1	902.7	901.2
137.5°	966.6	967.8	967.1	966.5	965.8	965.2	964.2	962.9	961.7	960.4	959.2
140°	1005.9	1006.2	1005.9	1005.6	1005.4	1005.1	1004.4	1003.2	1001.9	1000.7	999.4
142.5°	1043.4	1043.7	1043.2	1042.8	1042.3	1041.9	1041.0	1039.8	1038.5	1037.3	1036.0
145°	1098.5	1098.8	1098.1	1097.3	1096.6	1095.9	1095.2	1094.8	1094.2	1093.7	1093.2
147.5°	1150.4	1150.4	1149.7	1149.0	1148.3	1147.6	1146.9	1146.0	1145.0	1144.2	1143.2
150°	1182.6	1182.6	1182.1	1181.6	1181.1	1180.6	1180.1	1179.6	1179.1	1178.6	1178.1
152.5°	1211.6	1211.2	1210.9	1210.6	1210.3	1210.0	1209.4	1208.8	1208.1	1207.4	1206.7
155°	1254.0	1252.9	1252.7	1252.4	1252.2	1252.0	1251.8	1251.8	1251.8	1251.8	1251.8
157.5°	1290.8	1289.8	1289.6	1289.3	1289.2	1289.0	1289.0	1289.3	1289.6	1290.0	1290.2
160°	1313.4	1312.1	1312.1	1312.1	1312.1	1312.1	1312.3	1312.9	1313.4	1313.9	1314.3
162.5°	1334.8	1333.5	1333.3	1333.2	1333.0	1332.7	1333.0	1333.7	1334.4	1335.1	1335.8
165°	1361.6	1360.1	1360.1	1360.1	1360.1	1360.1	1360.6	1361.2	1362.0	1362.7	1363.5
167.5°	1383.5	1382.0	1381.8	1381.6	1381.4	1381.2	1381.6	1382.6	1383.6	1384.6	1385.6
170°	1395.3	1393.6	1393.6	1393.6	1393.6	1393.6	1394.1	1395.2	1396.1	1397.1	1398.1
172.5°	1405.0	1403.4	1403.4	1403.4	1403.4	1403.4	1403.9	1405.0	1405.9	1407.0	1407.9
175°	1415.2	1413.8	1413.8	1413.8	1413.8	1413.8	1414.2	1415.2	1416.3	1417.2	1418.2
177.5°	1420.0	1418.8	1418.8	1418.8	1418.8	1418.8	1419.3	1420.0	1420.8	1421.7	1422.5
180°	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0
2.5°	416.6	417.4	420.1	422.1	424.3	425.6	426.8	427.8	429.1	429.4	434.0
5°	418.4	422.4	429.5	434.6	441.1	448.1	452.9	455.1	461.0	465.7	475.4
7.5°	417.9	426.5	437.0	448.1	459.8	470.7	480.2	491.5	499.4	511.4	523.2
10°	417.4	428.9	442.5	456.5	472.9	488.2	501.9	517.1	529.8	546.4	560.6
12.5°	415.9	429.8	448.8	465.4	485.3	506.4	526.6	546.1	557.3	585.0	598.1
15°	412.4	428.9	452.5	477.8	505.2	530.1	555.8	576.3	609.3	633.6	649.1
17.5°	405.6	428.6	456.7	487.2	520.6	553.4	582.5	613.5	648.6	678.0	709.3
20°	402.3	427.7	458.9	492.7	527.4	564.5	597.5	634.8	673.1	702.1	742.2
22.5°	396.4	425.1	458.7	496.3	533.4	571.8	610.5	648.2	692.4	732.2	770.4
25°	386.8	418.8	453.7	495.7	539.2	577.6	624.1	674.0	720.1	771.3	809.3
27.5°	376.5	410.8	445.7	484.7	531.6	577.3	635.6	692.0	748.4	792.6	820.8
30°	368.7	402.0	438.1	477.4	523.7	578.1	643.3	704.8	759.8	797.7	813.6
32.5°	360.2	393.9	425.9	467.1	516.5	577.6	648.1	712.4	760.4	785.7	782.6
35°	346.8	375.1	406.2	445.9	504.0	574.0	650.9	713.1	742.5	737.1	696.2
37.5°	327.5	351.4	381.9	425.4	489.7	566.6	645.2	691.9	690.0	645.9	586.6
40°	315.6	335.8	365.2	411.0	478.4	561.8	636.5	666.8	641.1	579.5	508.5
42.5°	299.8	318.5	347.9	394.9	466.1	552.1	619.6	628.4	578.2	507.3	442.2
45°	275.4	291.9	322.4	370.9	447.5	530.7	578.5	557.0	489.4	416.2	366.7
47.5°	249.2	266.3	295.6	345.5	420.7	498.7	521.4	475.8	406.4	347.0	301.5
50°	232.6	249.1	277.8	328.1	402.6	472.3	481.8	422.8	359.0	306.9	269.6
52.5°	216.0	231.4	259.7	310.2	381.4	441.9	436.1	376.0	317.4	272.9	243.6
55°	191.1	205.8	232.6	280.0	344.8	392.7	371.7	314.4	265.8	231.3	209.0
57.5°	168.9	183.0	206.1	248.9	305.2	338.2	311.4	263.0	224.5	197.9	181.3
60°	153.9	166.3	188.4	228.1	277.0	302.0	275.6	232.9	200.4	179.1	164.3
62.5°	139.6	150.4	170.8	206.9	249.4	270.4	243.7	207.5	179.9	161.0	148.4
65°	118.0	127.8	145.9	173.9	208.8	222.8	199.8	170.5	149.0	135.0	126.6
67.5°	98.2	106.6	122.2	144.2	170.0	180.1	162.6	139.9	123.7	112.4	105.8
70°	85.1	92.3	104.5	123.6	146.8	154.6	138.2	119.5	107.7	98.7	92.5
72.5°	74.0	79.3	90.4	105.1	124.5	130.7	119.2	102.9	91.9	85.1	80.1
75°	56.4	60.8	68.0	79.8	93.2	96.9	88.3	78.0	70.6	65.8	62.0
77.5°	40.6	43.9	49.1	56.4	65.7	69.0	63.5	56.7	51.2	48.0	45.9
80°	30.7	33.3	37.7	43.7	49.3	51.1	48.0	42.7	38.9	37.1	35.3
82.5°	22.6	24.1	26.8	30.9	34.7	36.9	34.2	31.0	28.9	27.3	26.6
85°	11.5	12.2	13.4	15.1	17.5	18.3	17.2	16.4	15.2	14.2	14.2
87.5°	4.9	5.4	6.4	7.1	8.4	9.6	10.0	10.3	10.8	10.8	10.9
90°	3.6	6.1	8.5	11.0	13.9	17.1	20.3	23.6	26.8	27.8	28.8
92.5°	28.7	30.4	32.1	33.8	35.6	37.4	39.2	41.1	42.9	43.7	44.4
95°	67.6	69.4	71.1	72.8	74.7	76.7	78.7	80.7	82.7	83.6	84.6
97.5°	118.3	119.6	120.9	122.2	123.6	125.0	126.4	127.9	129.3	130.4	131.6
100°	153.3	154.8	156.4	157.8	159.2	160.4	161.7	162.9	164.2	164.9	165.7
102.5°	193.0	193.9	194.8	195.6	196.9	198.5	200.2	201.8	203.5	204.2	204.9
105°	251.8	252.3	252.7	253.2	254.6	256.8	259.1	261.3	263.6	263.6	263.6
107.5°	320.4	320.6	321.0	321.2	321.8	322.7	323.6	324.5	325.4	326.2	327.0
110°	363.4	363.9	364.4	364.9	365.4	365.9	366.4	366.9	367.4	368.4	369.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	407.9	408.2	408.5	408.8	409.0	409.1	409.1	409.3	409.4	410.6	411.7
115°	475.4	476.0	476.8	477.6	477.7	477.2	476.7	476.2	475.7	476.0	476.2
117.5°	542.5	543.0	543.5	544.1	544.0	543.3	542.7	542.0	541.4	541.3	541.3
120°	585.5	587.0	588.5	590.0	590.1	588.8	587.6	586.4	585.1	584.9	584.6
122.5°	628.9	630.0	631.1	632.1	632.4	631.7	631.1	630.4	629.8	629.1	628.5
125°	695.3	696.0	696.8	697.6	697.7	697.2	696.7	696.2	695.7	694.7	693.7
127.5°	757.9	759.4	761.0	762.6	763.1	762.6	762.0	761.5	761.0	759.5	758.1
130°	799.3	801.3	803.3	805.3	805.9	805.1	804.4	803.7	802.9	801.9	800.9
132.5°	840.4	842.4	844.4	846.4	847.1	846.5	846.0	845.4	844.9	843.7	842.5
135°	902.7	904.1	905.6	907.1	907.8	907.5	907.2	907.0	906.7	905.8	904.7
137.5°	960.4	961.7	962.9	964.2	965.2	965.8	966.5	967.1	967.8	966.6	965.6
140°	1000.7	1001.9	1003.2	1004.4	1005.1	1005.4	1005.6	1005.9	1006.2	1005.9	1005.6
142.5°	1037.3	1038.5	1039.8	1041.0	1041.9	1042.3	1042.8	1043.2	1043.7	1043.4	1043.2
145°	1093.7	1094.2	1094.8	1095.2	1095.9	1096.6	1097.3	1098.1	1098.8	1098.5	1098.3
147.5°	1144.2	1145.0	1146.0	1146.9	1147.6	1148.3	1149.0	1149.7	1150.4	1150.4	1150.4
150°	1178.6	1179.1	1179.6	1180.1	1180.6	1181.1	1181.6	1182.1	1182.6	1182.6	1182.6
152.5°	1207.4	1208.1	1208.8	1209.4	1210.0	1210.3	1210.6	1210.9	1211.2	1211.6	1211.9
155°	1251.8	1251.8	1251.8	1251.8	1252.0	1252.2	1252.4	1252.7	1252.9	1254.0	1254.9
157.5°	1290.0	1289.6	1289.3	1289.0	1289.0	1289.2	1289.3	1289.6	1289.8	1290.8	1291.8
160°	1313.9	1313.4	1312.9	1312.3	1312.1	1312.1	1312.1	1312.1	1312.1	1313.4	1314.6
162.5°	1335.1	1334.4	1333.7	1333.0	1332.7	1333.0	1333.2	1333.3	1333.5	1334.8	1336.0
165°	1362.7	1362.0	1361.2	1360.6	1360.1	1360.1	1360.1	1360.1	1360.1	1361.6	1363.1
167.5°	1384.6	1383.6	1382.6	1381.6	1381.2	1381.4	1381.6	1381.8	1382.0	1383.5	1385.1
170°	1397.1	1396.1	1395.2	1394.1	1393.6	1393.6	1393.6	1393.6	1393.6	1395.3	1397.1
172.5°	1407.0	1405.9	1405.0	1403.9	1403.4	1403.4	1403.4	1403.4	1403.4	1405.0	1406.5
175°	1417.2	1416.3	1415.2	1414.2	1413.8	1413.8	1413.8	1413.8	1413.8	1415.2	1416.7
177.5°	1421.7	1420.8	1420.0	1419.3	1418.8	1418.8	1418.8	1418.8	1418.8	1420.0	1421.3
180°	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	414.0	414.0	414.0	414.0	414.0	414.0	414.0
2.5°	435.7	435.8	437.6	438.9	438.2	439.0	439.4
5°	476.0	483.2	487.0	489.8	490.0	490.3	491.8
7.5°	533.1	540.9	546.6	555.2	557.7	560.6	559.8
10°	574.9	586.3	596.2	601.3	607.0	615.2	608.6
12.5°	613.9	634.1	649.1	657.2	662.5	664.1	660.9
15°	678.2	704.6	718.8	718.5	736.5	744.3	732.1
17.5°	737.1	761.6	781.2	791.2	806.2	809.5	808.0
20°	773.3	800.0	815.2	832.4	840.2	847.2	848.4
22.5°	804.3	828.4	844.7	859.0	865.6	868.9	870.9
25°	836.5	855.3	865.1	870.1	871.9	871.5	868.9
27.5°	834.2	835.7	824.8	814.2	804.7	794.0	790.3
30°	812.5	795.7	765.6	748.6	723.5	703.6	711.7
32.5°	755.6	722.0	688.3	651.0	620.2	611.4	602.5
35°	644.9	585.9	551.4	511.3	495.2	479.2	468.1
37.5°	521.7	476.1	435.1	409.0	392.9	382.7	377.3
40°	451.1	410.0	376.3	355.0	342.8	331.4	329.8
42.5°	394.8	356.5	331.2	314.3	302.6	297.6	294.1
45°	323.3	296.7	279.7	267.6	259.8	256.8	252.7
47.5°	273.7	254.9	242.0	233.8	227.9	225.7	225.4
50°	245.9	230.2	220.8	214.4	209.8	209.0	205.8
52.5°	225.1	211.5	204.1	198.5	195.2	193.0	192.0
55°	195.4	186.3	179.7	176.5	173.9	171.7	171.7
57.5°	170.9	163.4	159.0	156.3	155.5	153.9	152.9
60°	155.8	149.5	146.0	143.6	142.0	142.2	140.4
62.5°	141.1	136.9	133.6	131.3	129.3	129.4	129.5
65°	120.1	116.9	114.5	113.7	112.5	111.2	111.5
67.5°	101.9	98.8	96.9	95.6	95.1	94.4	95.6
70°	88.7	86.4	85.1	83.9	83.4	83.6	84.6
72.5°	76.6	75.1	74.1	73.6	72.7	72.8	73.4
75°	60.2	59.0	58.2	57.6	57.3	57.3	57.3
77.5°	44.2	43.9	43.6	42.7	42.7	43.0	43.0
80°	34.9	34.3	34.1	33.7	33.1	32.7	33.7
82.5°	26.1	25.5	25.3	25.2	24.3	24.2	25.1
85°	14.0	13.4	13.6	13.4	13.4	13.3	13.3
87.5°	10.9	10.9	10.9	11.2	11.2	11.1	11.5
90°	29.8	30.7	31.5	32.0	32.5	33.0	33.5
92.5°	45.3	46.1	46.3	46.0	45.7	45.4	45.1
95°	85.6	86.6	87.1	87.1	87.1	87.1	87.1
97.5°	132.8	133.9	134.4	134.3	134.2	134.1	134.0
100°	166.3	167.1	167.7	168.2	168.8	169.3	169.7
102.5°	205.7	206.5	206.7	206.6	206.6	206.5	206.4
105°	263.6	263.6	263.8	264.3	264.8	265.3	265.8
107.5°	327.8	328.6	328.8	328.6	328.2	328.0	327.6
110°	370.4	371.3	371.6	371.1	370.7	370.1	369.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	412.9	414.1	414.7	414.6	414.5	414.4	414.3
115°	476.5	476.7	476.7	476.5	476.2	476.0	475.7
117.5°	541.2	541.1	540.8	540.1	539.4	538.7	538.0
120°	584.4	584.2	583.8	583.3	582.8	582.3	581.8
122.5°	627.8	627.2	626.5	625.9	625.2	624.5	623.8
125°	692.8	691.7	690.8	689.7	688.7	687.8	686.7
127.5°	756.7	755.4	754.1	752.9	751.8	750.7	749.5
130°	800.0	798.9	797.5	795.8	794.1	792.4	790.7
132.5°	841.3	840.2	838.9	837.5	836.2	834.8	833.5
135°	903.8	902.8	902.1	901.6	901.0	900.5	900.1
137.5°	964.6	963.5	962.6	961.7	960.7	959.8	958.8
140°	1005.4	1005.1	1004.2	1002.5	1000.7	998.9	997.2
142.5°	1042.9	1042.7	1041.9	1040.5	1039.2	1037.8	1036.6
145°	1098.1	1097.9	1097.3	1096.2	1095.2	1094.2	1093.2
147.5°	1150.4	1150.4	1149.7	1148.2	1146.7	1145.2	1143.8
150°	1182.6	1182.6	1181.8	1180.3	1178.9	1177.3	1175.9
152.5°	1212.4	1212.7	1212.3	1211.0	1209.7	1208.4	1207.1
155°	1255.9	1256.9	1256.5	1254.8	1253.1	1251.3	1249.6
157.5°	1292.9	1294.0	1293.7	1292.4	1291.0	1289.6	1288.2
160°	1315.9	1317.1	1317.2	1316.2	1315.3	1314.2	1313.2
162.5°	1337.3	1338.5	1338.3	1336.8	1335.2	1333.6	1332.0
165°	1364.6	1366.1	1366.0	1364.3	1362.5	1360.7	1359.0
167.5°	1386.6	1388.2	1388.2	1386.6	1385.1	1383.5	1382.0
170°	1398.9	1400.6	1400.6	1398.9	1397.1	1395.3	1393.6
172.5°	1408.1	1409.6	1409.5	1407.8	1406.0	1404.3	1402.6
175°	1418.2	1419.7	1419.5	1417.8	1416.1	1414.4	1412.6
177.5°	1422.5	1423.7	1423.6	1422.1	1420.7	1419.4	1418.0
180°	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6

(END OF REPORT)