

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: P331902-840

Luminaire Tested: **S123DIP-S340D1195U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331902-840
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: S123DIP-S340D1195U840-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1195 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5608.4 lumens
Efficiency: N/A
Efficacy: 132.9 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Indirect

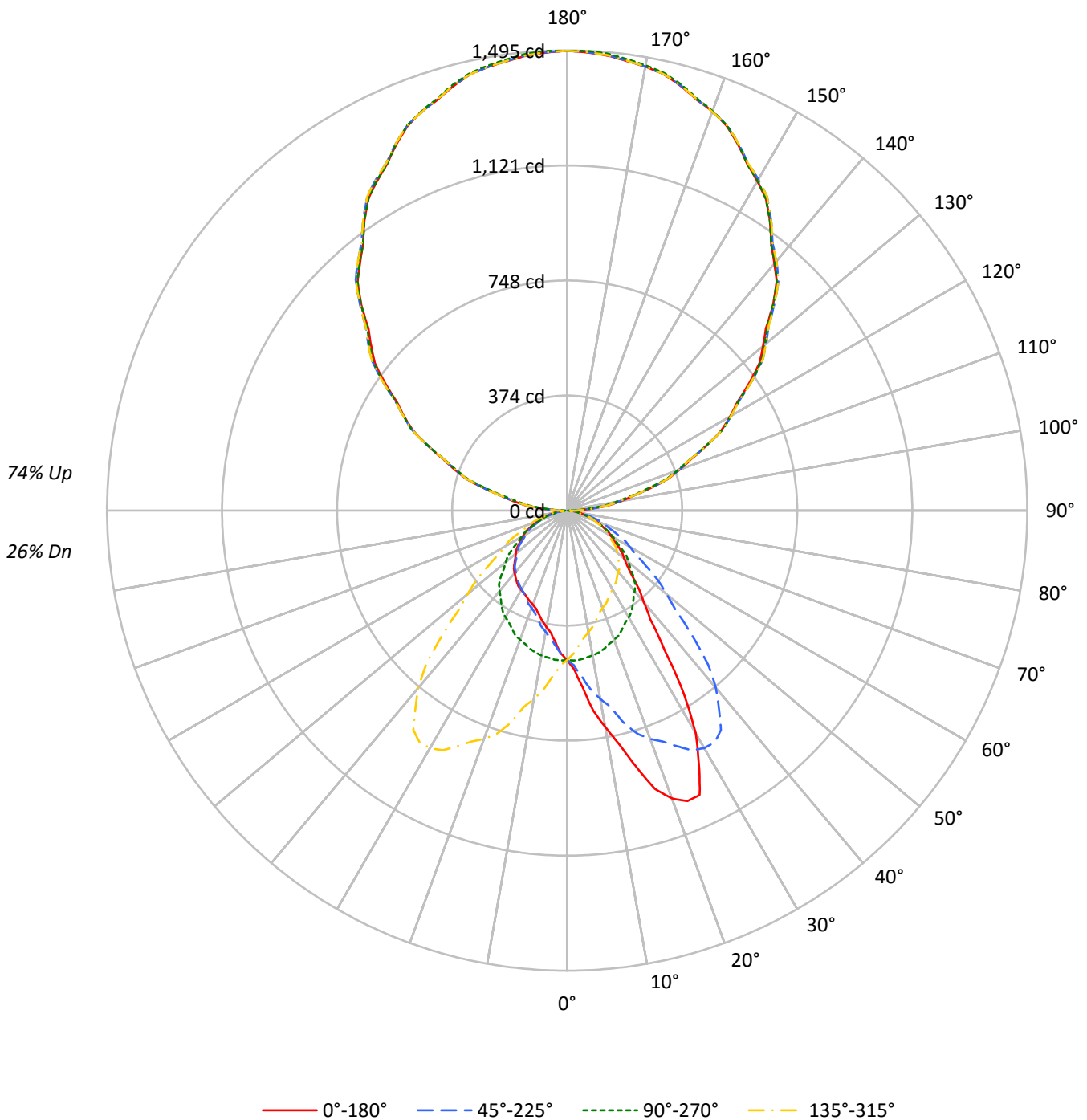
Input Watts (W): 42.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	101	101	101	91	91	91	91	70	70	70	51	51	51	34	34	34	26
1	93	88	85	81	82	79	76	73	61	59	58	45	44	43	30	30	29	22
2	84	77	72	67	75	69	64	60	54	51	48	40	38	36	27	26	25	19
3	77	68	61	56	68	61	55	50	48	44	40	35	33	31	24	22	21	16
4	70	60	53	47	63	54	48	43	42	38	34	32	29	26	21	20	18	14
5	65	53	46	40	57	48	41	36	38	33	29	28	25	23	19	17	16	12
6	59	48	40	35	53	43	36	32	34	29	26	25	22	20	18	16	14	11
7	55	43	35	30	49	39	32	28	31	26	22	23	20	17	16	14	12	10
8	51	39	32	26	45	35	29	24	28	23	20	21	18	15	15	13	11	9
9	47	35	28	23	42	32	26	21	25	21	18	19	16	14	13	11	10	8
10	44	32	25	21	39	29	23	19	23	19	16	18	15	12	12	10	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5226	5226	5226	5226
5°	6232	5249	4652	5249
10°	7802	5223	4203	5223
15°	9569	5180	3911	5180
20°	11399	5116	3725	5116
25°	12105	5035	3682	5035
30°	10376	4977	3701	4977
35°	7215	4893	3741	4893
40°	5435	4796	3729	4796
45°	4512	4652	3682	4652
50°	4042	4357	3647	4357
55°	3780	4040	3603	4040
60°	3546	3707	3565	3707
65°	3331	3380	3451	3380
70°	3125	3006	3286	3006
75°	2799	2633	3015	2633
80°	2448	2157	2597	2157
85°	1927	1568	1741	1568



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.8	0.9
10°-20°	153.4	2.7
20°-30°	257.4	4.6
30°-40°	291.5	5.2
40°-50°	261.4	4.7
50°-60°	210.9	3.8
60°-70°	147.0	2.6
70°-80°	77.3	1.4
80°-90°	23.3	0.4
90°-100°	97.3	1.7
100°-110°	291.2	5.2
110°-120°	495.4	8.8
120°-130°	651.6	11.6
130°-140°	732.3	13.1
140°-150°	719.9	12.8
150°-160°	606.0	10.8
160°-170°	403.4	7.2
170°-180°	141.3	2.5
0°-30°	458.6	8.2
0°-40°	750.1	13.4
0°-60°	1222.4	21.8
0°-90°	1470.0	26.2
90°-120°	883.9	15.8
90°-150°	2987.7	53.3
90°-180°	4138.0	73.8
0°-180°	5608.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	486	486	486	486	486	
5°	577	486	430	486	577	60
15°	859	465	351	465	859	248
25°	1019	424	310	424	1019	447
35°	549	372	285	372	549	357
45°	296	306	242	306	296	235
55°	201	215	192	215	201	181
65°	131	133	136	133	131	130
75°	67	63	72	63	67	72
85°	16	13	14	13	16	19
90°	35	1	35	1	35	18
95°	92	69	92	69	92	94
105°	279	264	279	264	279	296
115°	500	499	500	499	500	495
125°	722	730	722	730	722	645
135°	946	947	946	947	946	727
145°	1149	1149	1149	1149	1149	717
155°	1313	1315	1313	1315	1313	605
165°	1428	1433	1428	1433	1428	403
175°	1484	1490	1484	1490	1484	141
180°	1494	1494	1494	1494	1494	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5
2.5°	515.3	514.9	514.0	514.7	513.2	511.2	511.0	509.1	503.6	503.3	501.8
5°	576.8	575.0	574.7	574.5	571.2	566.7	558.3	557.5	546.2	540.7	533.8
7.5°	656.6	657.5	654.1	651.2	641.1	634.4	625.3	613.7	599.9	585.7	576.4
10°	713.8	721.5	712.0	705.3	699.2	687.7	674.3	657.5	640.9	621.4	606.5
12.5°	775.2	778.9	777.0	770.8	761.3	743.8	720.0	701.6	686.2	653.7	640.6
15°	858.7	873.0	863.8	842.7	843.1	826.5	795.5	761.3	743.2	714.7	675.9
17.5°	947.8	949.5	945.6	928.0	916.3	893.2	864.5	831.9	795.2	760.7	719.5
20°	995.1	993.7	985.5	976.3	956.1	938.3	907.0	870.5	823.4	789.5	744.6
22.5°	1021.5	1019.2	1015.2	1007.5	990.8	971.6	943.4	903.6	858.8	812.1	760.2
25°	1019.2	1022.2	1022.7	1020.6	1014.7	1003.2	981.1	949.3	904.6	844.6	790.5
27.5°	927.0	931.3	943.8	955.0	967.5	980.2	978.5	962.7	929.6	877.8	811.6
30°	834.8	825.3	848.6	878.0	898.0	933.3	953.0	954.2	935.6	891.2	826.7
32.5°	706.7	717.1	727.4	763.6	807.3	846.9	886.3	917.9	921.5	891.9	835.6
35°	549.1	562.1	580.9	599.7	646.7	687.2	756.4	816.6	864.5	870.9	836.4
37.5°	442.5	448.9	460.8	479.7	510.4	558.5	611.9	688.0	757.6	809.3	811.5
40°	386.8	388.7	402.0	416.4	441.3	480.9	529.1	596.4	679.6	751.9	782.0
42.5°	345.0	349.1	354.9	368.6	388.5	418.2	463.0	518.7	595.0	678.1	737.0
45°	296.4	301.1	304.7	313.9	328.0	348.0	379.2	430.1	488.2	574.0	653.3
47.5°	264.4	264.7	267.3	274.3	283.9	298.9	321.0	353.7	407.0	476.7	558.1
50°	241.4	245.1	246.1	251.5	259.0	270.0	288.4	316.2	359.9	421.1	495.9
52.5°	225.2	226.3	228.9	232.9	239.4	248.0	264.0	285.7	320.0	372.2	441.0
55°	201.4	201.4	204.0	207.0	210.8	218.5	229.1	245.1	271.2	311.7	368.7
57.5°	179.4	180.6	182.4	183.3	186.5	191.7	200.5	212.7	232.1	263.3	308.5
60°	164.7	166.8	166.5	168.4	171.3	175.3	182.8	192.7	210.1	235.0	273.2
62.5°	151.9	151.8	151.7	154.0	156.7	160.6	165.5	174.0	188.8	211.0	243.4
65°	130.8	130.4	132.0	133.4	134.3	137.1	140.9	148.5	158.3	174.8	200.0
67.5°	112.1	110.7	111.6	112.1	113.7	115.9	119.5	124.1	131.9	145.1	164.1
70°	99.3	98.1	97.9	98.4	99.8	101.4	104.0	108.5	115.7	126.3	140.2
72.5°	86.1	85.3	85.2	86.3	86.9	88.1	89.9	93.9	99.8	107.8	120.7
75°	67.3	67.3	67.3	67.6	68.3	69.2	70.6	72.7	77.2	82.8	91.5
77.5°	50.4	50.4	50.1	50.1	51.1	51.5	51.8	53.8	56.4	60.1	66.4
80°	39.5	38.4	38.8	39.5	40.0	40.2	40.9	41.4	43.5	45.6	50.1
82.5°	29.4	28.4	28.5	29.6	29.7	29.9	30.6	31.2	32.0	33.9	36.4
85°	15.6	15.6	15.8	15.8	16.0	15.8	16.5	16.7	16.7	17.9	19.3
87.5°	12.7	12.2	12.3	12.4	12.1	12.1	12.1	12.1	12.0	12.0	11.5
90°	35.2	34.6	34.1	33.6	33.1	32.3	31.3	30.3	29.2	28.2	24.7
92.5°	47.4	47.7	48.1	48.4	48.7	48.4	47.6	46.8	45.8	45.0	43.1
95°	91.5	91.5	91.5	91.5	91.5	91.0	90.0	88.9	87.9	86.8	84.7
97.5°	140.8	140.9	141.0	141.1	141.2	140.7	139.5	138.3	137.0	135.8	134.3
100°	178.3	177.8	177.3	176.8	176.2	175.6	174.8	174.0	173.3	172.5	171.2
102.5°	216.8	216.9	217.0	217.1	217.2	216.9	216.1	215.3	214.6	213.8	212.1
105°	279.2	278.7	278.2	277.7	277.2	276.9	276.9	276.9	276.9	276.9	274.6
107.5°	344.3	344.6	344.9	345.2	345.5	345.3	344.5	343.6	342.7	341.9	340.9
110°	388.4	388.9	389.4	389.9	390.4	390.2	389.2	388.1	387.1	386.1	385.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	435.4	435.5	435.6	435.7	435.8	435.2	433.9	432.6	431.4	430.1	430.0
115°	499.9	500.1	500.4	500.6	500.9	500.9	500.6	500.4	500.1	499.9	500.4
117.5°	565.3	566.0	566.7	567.5	568.3	568.7	568.7	568.8	568.8	568.9	569.6
120°	611.3	611.9	612.4	612.9	613.4	613.8	614.1	614.3	614.6	614.8	616.1
122.5°	655.4	656.1	656.9	657.6	658.3	659.0	659.7	660.5	661.1	661.8	662.5
125°	721.6	722.7	723.7	724.8	725.8	726.8	727.9	728.9	729.9	731.0	731.5
127.5°	787.6	788.7	789.9	791.1	792.3	793.7	795.2	796.6	798.1	799.5	800.1
130°	830.7	832.5	834.4	836.2	838.0	839.5	840.5	841.5	842.6	843.6	844.4
132.5°	875.8	877.2	878.6	880.0	881.4	882.7	884.0	885.2	886.5	887.8	888.3
135°	945.7	946.2	946.7	947.3	947.8	948.6	949.6	950.7	951.7	952.7	953.0
137.5°	1007.4	1008.5	1009.5	1010.4	1011.4	1012.4	1013.5	1014.6	1015.7	1016.8	1016.1
140°	1047.8	1049.7	1051.5	1053.3	1055.1	1056.1	1056.4	1056.6	1056.9	1057.2	1056.9
142.5°	1089.1	1090.6	1091.9	1093.3	1094.7	1095.6	1095.8	1096.1	1096.3	1096.6	1096.1
145°	1148.7	1149.7	1150.7	1151.9	1152.9	1153.6	1153.8	1154.1	1154.3	1154.6	1153.8
147.5°	1201.7	1203.3	1204.9	1206.4	1208.0	1208.8	1208.8	1208.8	1208.8	1208.8	1208.0
150°	1235.6	1237.1	1238.7	1240.2	1241.8	1242.5	1242.5	1242.5	1242.5	1242.5	1242.0
152.5°	1268.4	1269.7	1271.1	1272.4	1273.8	1274.2	1273.8	1273.4	1273.0	1272.6	1272.3
155°	1312.9	1314.8	1316.7	1318.5	1320.3	1320.7	1319.6	1318.6	1317.6	1316.5	1316.3
157.5°	1353.5	1355.0	1356.5	1358.0	1359.4	1359.6	1358.5	1357.4	1356.3	1355.2	1355.0
160°	1379.9	1380.9	1381.9	1383.0	1384.0	1383.9	1382.6	1381.3	1380.0	1378.7	1378.7
162.5°	1399.6	1401.2	1402.9	1404.5	1406.2	1406.4	1405.1	1403.8	1402.5	1401.2	1401.0
165°	1427.9	1429.8	1431.6	1433.4	1435.2	1435.4	1433.8	1432.3	1430.7	1429.2	1429.2
167.5°	1452.1	1453.7	1455.3	1456.9	1458.5	1458.5	1456.9	1455.3	1453.7	1452.1	1451.9
170°	1464.3	1466.1	1467.9	1469.9	1471.7	1471.7	1469.9	1467.9	1466.1	1464.3	1464.3
172.5°	1473.7	1475.5	1477.3	1479.1	1481.1	1481.2	1479.6	1477.9	1476.3	1474.7	1474.7
175°	1484.3	1486.1	1487.9	1489.8	1491.6	1491.7	1490.2	1488.5	1487.0	1485.4	1485.4
177.5°	1490.0	1491.4	1492.8	1494.3	1495.7	1495.8	1494.6	1493.4	1492.1	1490.9	1490.9
180°	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5
2.5°	500.6	499.2	497.7	495.0	492.7	489.6	488.6	487.5	484.0	481.1	478.8
5°	531.2	525.5	517.4	509.8	503.7	495.4	490.8	485.8	478.8	472.4	467.3
7.5°	563.2	552.1	539.3	525.5	512.6	500.2	490.2	481.2	471.3	462.0	454.6
10°	588.7	572.6	554.7	535.4	519.0	503.0	489.6	477.9	465.1	454.0	444.8
12.5°	617.6	593.9	569.3	545.8	526.3	504.1	487.9	472.9	458.5	445.2	434.9
15°	651.9	621.8	592.6	560.4	530.8	503.0	483.7	464.8	448.2	434.5	421.3
17.5°	683.2	649.0	610.6	571.4	535.6	502.7	475.7	454.4	433.5	416.9	403.7
20°	700.8	662.1	618.5	577.8	538.3	501.6	471.9	446.6	423.9	406.3	391.5
22.5°	716.1	670.7	625.6	582.1	538.1	498.6	464.9	438.8	414.3	397.1	381.3
25°	732.0	677.5	632.4	581.4	532.2	491.2	453.6	423.9	399.5	379.2	363.0
27.5°	745.5	677.1	623.5	568.6	522.8	481.8	441.6	409.8	383.8	361.8	345.4
30°	754.5	678.0	614.3	560.0	513.8	471.5	432.4	400.4	373.1	350.8	335.3
32.5°	760.1	677.4	605.8	547.9	499.5	462.0	422.4	389.3	361.2	339.3	324.4
35°	763.5	673.3	591.2	523.0	476.5	439.9	406.8	372.4	343.1	322.6	305.6
37.5°	756.8	664.6	574.3	499.0	448.0	412.1	384.2	355.0	326.8	304.3	289.6
40°	746.5	658.9	561.1	482.0	428.4	393.8	370.1	341.3	313.6	292.2	278.5
42.5°	726.7	647.5	546.6	463.2	408.1	373.5	351.6	327.6	301.3	281.2	267.6
45°	678.5	622.5	524.8	435.0	378.1	342.3	323.1	305.6	281.9	262.4	250.5
47.5°	611.6	584.9	493.4	405.3	346.7	312.4	292.3	278.3	260.9	245.1	233.9
50°	565.1	554.0	472.2	384.9	325.9	292.2	272.9	260.2	247.7	232.0	221.7
52.5°	511.5	518.3	447.4	363.9	304.6	271.5	253.4	243.3	232.0	218.9	210.0
55°	436.0	460.6	404.5	328.4	272.9	241.4	224.2	215.3	208.6	199.0	191.3
57.5°	365.3	396.7	358.0	292.0	241.8	214.6	198.1	188.4	184.2	179.2	173.0
60°	323.3	354.3	324.9	267.5	221.0	195.0	180.5	172.2	167.9	164.4	159.3
62.5°	285.8	317.2	292.6	242.7	200.4	176.4	163.7	155.6	152.4	150.6	146.1
65°	234.3	261.4	244.9	204.0	171.1	149.9	138.4	132.7	129.7	129.0	126.1
67.5°	190.7	211.3	199.3	169.2	143.3	125.0	115.2	110.4	108.1	107.8	105.6
70°	162.1	181.4	172.2	144.9	122.6	108.3	99.8	95.5	94.1	93.9	92.7
72.5°	139.9	153.3	146.0	123.3	106.0	93.0	86.7	82.3	80.8	81.1	80.3
75°	103.5	113.6	109.4	93.6	79.8	71.3	66.1	63.3	61.9	62.6	61.6
77.5°	74.5	80.9	77.1	66.1	57.6	51.5	47.7	45.9	44.6	44.6	44.2
80°	56.2	60.0	57.9	51.3	44.2	39.1	36.0	34.8	34.1	33.8	33.6
82.5°	40.1	43.2	40.7	36.3	31.4	28.3	26.6	25.0	24.5	24.6	24.4
85°	20.2	21.4	20.5	17.7	15.8	14.3	13.4	12.7	12.2	12.4	12.0
87.5°	11.2	10.7	9.5	8.2	7.3	6.2	5.7	4.7	4.8	5.5	5.8
90°	21.4	18.0	14.6	11.6	9.0	6.4	3.7	1.2	3.7	6.4	9.0
92.5°	41.2	39.3	37.4	35.4	33.7	31.9	30.2	28.4	30.2	31.9	33.7
95°	82.6	80.6	78.5	76.5	74.7	72.9	71.1	69.3	71.1	72.9	74.7
97.5°	132.9	131.4	129.9	128.4	127.0	125.7	124.3	123.0	124.3	125.7	127.0
100°	169.9	168.5	167.2	165.8	164.3	162.7	161.2	159.6	161.2	162.7	164.3
102.5°	210.4	208.6	206.9	205.6	204.6	203.7	202.8	201.8	202.8	203.7	204.6
105°	272.3	269.8	267.5	266.1	265.6	265.1	264.5	264.0	264.5	265.1	265.6
107.5°	340.0	339.1	338.2	337.5	337.2	336.9	336.6	336.3	336.6	336.9	337.2
110°	385.0	384.5	384.0	383.4	382.9	382.3	381.8	381.3	381.8	382.3	382.9



TEST NUMBER: P331902-840

CATALOG NUMBER: S123DIP-S340D1195U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	429.9	429.8	429.7	429.5	429.2	428.9	428.6	428.3	428.6	428.9	429.2
115°	500.9	501.4	501.9	501.8	501.0	500.2	499.5	498.7	499.5	500.2	501.0
117.5°	570.2	570.9	571.6	571.6	571.1	570.6	570.1	569.6	570.1	570.6	571.1
120°	617.4	618.7	620.1	620.0	618.3	616.8	615.2	613.7	615.2	616.8	618.3
122.5°	663.1	663.8	664.5	664.3	663.1	662.0	660.8	659.6	660.8	662.0	663.1
125°	732.1	732.6	733.1	733.0	732.2	731.3	730.6	729.8	730.6	731.3	732.2
127.5°	800.6	801.2	801.8	801.2	799.6	797.9	796.3	794.6	796.3	797.9	799.6
130°	845.2	846.0	846.8	846.1	844.0	841.9	839.8	837.8	839.8	841.9	844.0
132.5°	888.9	889.5	890.1	889.3	887.2	885.1	883.0	880.9	883.0	885.1	887.2
135°	953.3	953.5	953.8	953.1	951.6	950.0	948.5	946.8	948.5	950.0	951.6
137.5°	1015.4	1014.8	1014.1	1013.1	1011.8	1010.5	1009.2	1007.9	1009.2	1010.5	1011.8
140°	1056.6	1056.4	1056.1	1055.3	1054.1	1052.8	1051.5	1050.2	1051.5	1052.8	1054.1
142.5°	1095.7	1095.2	1094.7	1093.9	1092.6	1091.3	1089.9	1088.6	1089.9	1091.3	1092.6
145°	1153.0	1152.3	1151.4	1150.7	1150.2	1149.7	1149.2	1148.7	1149.2	1149.7	1150.2
147.5°	1207.3	1206.6	1205.9	1205.1	1204.1	1203.2	1202.2	1201.2	1202.2	1203.2	1204.1
150°	1241.5	1241.0	1240.5	1240.0	1239.4	1238.9	1238.4	1237.9	1238.4	1238.9	1239.4
152.5°	1272.0	1271.6	1271.3	1270.8	1270.1	1269.4	1268.7	1267.9	1268.7	1269.4	1270.1
155°	1316.0	1315.8	1315.5	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3
157.5°	1354.8	1354.6	1354.3	1354.4	1354.7	1355.0	1355.3	1355.6	1355.3	1355.0	1354.7
160°	1378.7	1378.7	1378.7	1379.0	1379.5	1380.0	1380.5	1381.0	1380.5	1380.0	1379.5
162.5°	1400.8	1400.6	1400.4	1400.7	1401.4	1402.1	1402.8	1403.5	1402.8	1402.1	1401.4
165°	1429.2	1429.2	1429.2	1429.6	1430.3	1431.1	1431.9	1432.7	1431.9	1431.1	1430.3
167.5°	1451.7	1451.5	1451.3	1451.7	1452.8	1453.8	1454.8	1455.9	1454.8	1453.8	1452.8
170°	1464.3	1464.3	1464.3	1464.8	1465.9	1466.9	1467.9	1469.1	1467.9	1466.9	1465.9
172.5°	1474.7	1474.7	1474.7	1475.2	1476.2	1477.2	1478.3	1479.4	1478.3	1477.2	1476.2
175°	1485.4	1485.4	1485.4	1486.0	1487.0	1488.0	1489.1	1490.2	1489.1	1488.0	1487.0
177.5°	1490.9	1490.9	1490.9	1491.3	1492.1	1493.0	1493.8	1494.6	1493.8	1493.0	1492.1
180°	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7



TEST NUMBER: P331902-840

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5
2.5°	477.5	476.2	474.3	471.5	469.2	465.6	465.6	466.2	466.2	466.1	465.6
5°	463.0	459.5	455.2	450.3	445.1	439.9	439.0	437.1	435.8	434.7	433.6
7.5°	447.7	441.4	435.3	428.4	422.0	416.9	413.2	410.2	408.3	406.2	404.7
10°	437.4	429.6	422.3	415.1	407.0	400.6	396.7	393.8	391.7	389.8	388.9
12.5°	425.2	416.3	408.2	401.2	392.5	386.0	382.1	380.8	378.4	374.4	372.3
15°	407.3	399.0	389.4	378.8	374.6	366.6	362.0	359.9	358.5	355.5	354.6
17.5°	391.9	381.2	370.3	362.4	354.6	348.1	345.6	343.0	341.1	338.6	337.8
20°	379.7	370.1	360.2	351.7	343.5	336.4	334.3	332.4	330.5	329.4	328.4
22.5°	367.3	357.7	349.4	341.5	332.8	328.1	325.9	323.8	322.4	321.6	320.7
25°	349.8	341.3	332.1	325.2	318.1	315.0	313.6	312.5	311.4	310.3	310.0
27.5°	334.3	325.0	317.6	310.9	305.9	303.4	301.9	301.4	301.6	302.1	302.4
30°	322.6	314.1	308.0	302.4	297.6	295.3	295.0	295.0	296.0	296.2	296.7
32.5°	311.8	304.9	298.7	293.3	289.7	288.1	289.0	289.0	289.7	290.3	291.2
35°	296.2	290.0	285.4	280.6	277.6	278.3	278.8	279.2	280.4	281.9	282.8
37.5°	281.2	276.0	271.0	267.4	266.0	267.2	268.4	269.3	270.7	271.9	272.8
40°	270.5	266.5	261.9	258.5	259.0	259.7	260.6	261.9	263.1	263.8	264.7
42.5°	260.5	256.4	252.8	250.0	250.7	251.7	252.2	252.8	254.2	255.5	256.0
45°	245.4	242.1	238.8	237.1	237.6	238.1	238.5	239.2	240.4	241.4	241.7
47.5°	228.3	226.0	223.8	222.2	223.0	222.8	223.4	224.9	225.2	225.8	227.1
50°	217.4	215.3	212.7	212.2	212.2	212.2	212.5	214.3	214.3	215.3	216.2
52.5°	205.3	204.0	202.4	201.5	201.1	201.1	202.1	203.0	203.4	204.7	205.7
55°	187.5	186.1	184.7	184.0	183.5	184.0	185.8	186.3	187.5	188.2	188.9
57.5°	169.0	167.8	166.7	166.3	166.2	166.8	167.8	169.3	169.6	171.8	172.8
60°	156.7	155.0	154.1	154.1	153.6	155.7	155.3	157.6	158.1	159.6	161.2
62.5°	144.1	141.9	141.5	141.5	142.2	142.8	143.4	144.4	145.7	147.4	148.8
65°	123.7	122.6	124.2	124.0	123.5	124.9	124.9	126.1	127.5	129.2	131.8
67.5°	104.5	103.9	104.0	104.0	104.7	105.5	106.2	107.2	109.0	110.7	112.4
70°	91.5	92.2	91.1	92.0	92.7	92.9	93.4	94.8	96.6	97.9	99.8
72.5°	78.9	78.9	79.0	79.4	80.1	80.5	81.0	82.6	84.6	85.6	87.2
75°	60.7	60.5	61.2	61.2	62.3	62.8	63.3	64.0	65.8	67.3	68.5
77.5°	44.3	44.6	44.4	45.2	44.9	45.0	46.5	47.2	47.4	50.2	50.8
80°	33.4	33.8	34.1	34.3	34.5	34.1	35.7	36.5	36.5	38.1	39.3
82.5°	24.0	24.2	24.8	25.1	25.1	25.7	25.8	26.3	26.9	27.6	29.1
85°	12.0	12.7	12.9	12.7	12.9	12.4	13.1	13.4	13.6	13.6	13.6
87.5°	6.1	6.9	7.4	8.2	8.7	9.6	9.8	9.6	9.8	10.6	10.0
90°	11.6	14.6	18.0	21.4	24.7	28.2	29.2	30.3	31.3	32.3	33.1
92.5°	35.4	37.4	39.3	41.2	43.1	45.0	45.8	46.8	47.6	48.4	48.7
95°	76.5	78.5	80.6	82.6	84.7	86.8	87.9	88.9	90.0	91.0	91.5
97.5°	128.4	129.9	131.4	132.9	134.3	135.8	137.0	138.3	139.5	140.7	141.2
100°	165.8	167.2	168.5	169.9	171.2	172.5	173.3	174.0	174.8	175.6	176.2
102.5°	205.6	206.9	208.6	210.4	212.1	213.8	214.6	215.3	216.1	216.9	217.2
105°	266.1	267.5	269.8	272.3	274.6	276.9	276.9	276.9	276.9	276.9	277.2
107.5°	337.5	338.2	339.1	340.0	340.9	341.9	342.7	343.6	344.5	345.3	345.5
110°	383.4	384.0	384.5	385.0	385.5	386.1	387.1	388.1	389.2	390.2	390.4



TEST NUMBER: P331902-840

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	429.5	429.7	429.8	429.9	430.0	430.1	431.4	432.6	433.9	435.2	435.8
115°	501.8	501.9	501.4	500.9	500.4	499.9	500.1	500.4	500.6	500.9	500.9
117.5°	571.6	571.6	570.9	570.2	569.6	568.9	568.8	568.8	568.7	568.7	568.3
120°	620.0	620.1	618.7	617.4	616.1	614.8	614.6	614.3	614.1	613.8	613.4
122.5°	664.3	664.5	663.8	663.1	662.5	661.8	661.1	660.5	659.7	659.0	658.3
125°	733.0	733.1	732.6	732.1	731.5	731.0	729.9	728.9	727.9	726.8	725.8
127.5°	801.2	801.8	801.2	800.6	800.1	799.5	798.1	796.6	795.2	793.7	792.3
130°	846.1	846.8	846.0	845.2	844.4	843.6	842.6	841.5	840.5	839.5	838.0
132.5°	889.3	890.1	889.5	888.9	888.3	887.8	886.5	885.2	884.0	882.7	881.4
135°	953.1	953.8	953.5	953.3	953.0	952.7	951.7	950.7	949.6	948.6	947.8
137.5°	1013.1	1014.1	1014.8	1015.4	1016.1	1016.8	1015.7	1014.6	1013.5	1012.4	1011.4
140°	1055.3	1056.1	1056.4	1056.6	1056.9	1057.2	1056.9	1056.6	1056.4	1056.1	1055.1
142.5°	1093.9	1094.7	1095.2	1095.7	1096.1	1096.6	1096.3	1096.1	1095.8	1095.6	1094.7
145°	1150.7	1151.4	1152.3	1153.0	1153.8	1154.6	1154.3	1154.1	1153.8	1153.6	1152.9
147.5°	1205.1	1205.9	1206.6	1207.3	1208.0	1208.8	1208.8	1208.8	1208.8	1208.8	1208.0
150°	1240.0	1240.5	1241.0	1241.5	1242.0	1242.5	1242.5	1242.5	1242.5	1242.5	1241.8
152.5°	1270.8	1271.3	1271.6	1272.0	1272.3	1272.6	1273.0	1273.4	1273.8	1274.2	1273.8
155°	1315.3	1315.5	1315.8	1316.0	1316.3	1316.5	1317.6	1318.6	1319.6	1320.7	1320.3
157.5°	1354.4	1354.3	1354.6	1354.8	1355.0	1355.2	1356.3	1357.4	1358.5	1359.6	1359.4
160°	1379.0	1378.7	1378.7	1378.7	1378.7	1378.7	1380.0	1381.3	1382.6	1383.9	1384.0
162.5°	1400.7	1400.4	1400.6	1400.8	1401.0	1401.2	1402.5	1403.8	1405.1	1406.4	1406.2
165°	1429.6	1429.2	1429.2	1429.2	1429.2	1429.2	1430.7	1432.3	1433.8	1435.4	1435.2
167.5°	1451.7	1451.3	1451.5	1451.7	1451.9	1452.1	1453.7	1455.3	1456.9	1458.5	1458.5
170°	1464.8	1464.3	1464.3	1464.3	1464.3	1464.3	1466.1	1467.9	1469.9	1471.7	1471.7
172.5°	1475.2	1474.7	1474.7	1474.7	1474.7	1474.7	1476.3	1477.9	1479.6	1481.2	1481.1
175°	1486.0	1485.4	1485.4	1485.4	1485.4	1485.4	1487.0	1488.5	1490.2	1491.7	1491.6
177.5°	1491.3	1490.9	1490.9	1490.9	1490.9	1490.9	1492.1	1493.4	1494.6	1495.8	1495.7
180°	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7



TEST NUMBER: P331902-840

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5
2.5°	464.3	464.1	465.4	464.5	465.4	464.1	464.3	465.6	466.1	466.2	466.2
5°	432.2	432.9	430.5	430.5	430.5	432.9	432.2	433.6	434.7	435.8	437.1
7.5°	403.5	402.5	402.6	401.3	402.6	402.5	403.5	404.7	406.2	408.3	410.2
10°	386.1	384.7	384.2	384.5	384.2	384.7	386.1	388.9	389.8	391.7	393.8
12.5°	371.5	371.3	368.2	368.2	368.2	371.3	371.5	372.3	374.4	378.4	380.8
15°	354.6	350.1	349.6	351.0	349.6	350.1	354.6	354.6	355.5	358.5	359.9
17.5°	337.5	335.1	335.3	334.6	335.3	335.1	337.5	337.8	338.6	341.1	343.0
20°	328.4	327.0	326.8	325.2	326.8	327.0	328.4	328.4	329.4	330.5	332.4
22.5°	320.1	319.7	319.8	318.0	319.8	319.7	320.1	320.7	321.6	322.4	323.8
25°	309.8	311.0	310.0	310.0	310.0	311.0	309.8	310.0	310.3	311.4	312.5
27.5°	302.9	302.9	302.4	302.4	302.4	302.9	302.9	302.4	302.1	301.6	301.4
30°	297.6	297.4	297.8	297.8	297.8	297.4	297.6	296.7	296.2	296.0	295.0
32.5°	292.4	292.7	292.8	293.0	292.8	292.7	292.4	291.2	290.3	289.7	289.0
35°	284.2	284.5	285.2	284.7	285.2	284.5	284.2	282.8	281.9	280.4	279.2
37.5°	273.2	274.3	274.1	274.4	274.1	274.3	273.2	272.8	271.9	270.7	269.3
40°	264.9	265.6	265.4	265.4	265.4	265.6	264.9	264.7	263.8	263.1	261.9
42.5°	256.4	256.9	256.3	256.0	256.3	256.9	256.4	256.0	255.5	254.2	252.8
45°	242.6	242.1	242.8	241.9	242.8	242.1	242.6	241.7	241.4	240.4	239.2
47.5°	227.0	227.5	227.7	228.4	227.7	227.5	227.0	227.1	225.8	225.2	224.9
50°	216.7	218.1	218.1	217.8	218.1	218.1	216.7	216.2	215.3	214.3	214.3
52.5°	206.5	207.1	208.1	208.0	208.1	207.1	206.5	205.7	204.7	203.4	203.0
55°	190.8	191.3	191.8	192.0	191.8	191.3	190.8	188.9	188.2	187.5	186.3
57.5°	174.5	174.3	175.4	175.8	175.4	174.3	174.5	172.8	171.8	169.6	169.3
60°	163.0	163.0	164.9	165.6	164.9	163.0	163.0	161.2	159.6	158.1	157.6
62.5°	150.8	151.6	153.4	152.5	153.4	151.6	150.8	148.8	147.4	145.7	144.4
65°	132.9	134.8	134.6	135.5	134.6	134.8	132.9	131.8	129.2	127.5	126.1
67.5°	114.2	115.4	117.1	117.2	117.1	115.4	114.2	112.4	110.7	109.0	107.2
70°	101.6	102.8	103.7	104.4	103.7	102.8	101.6	99.8	97.9	96.6	94.8
72.5°	89.4	90.0	92.3	91.3	92.3	90.0	89.4	87.2	85.6	84.6	82.6
75°	70.1	71.8	73.2	72.5	73.2	71.8	70.1	68.5	67.3	65.8	64.0
77.5°	51.8	53.5	54.1	53.5	54.1	53.5	51.8	50.8	50.2	47.4	47.2
80°	40.9	40.7	42.1	41.9	42.1	40.7	40.9	39.3	38.1	36.5	36.5
82.5°	30.0	29.8	30.4	30.6	30.4	29.8	30.0	29.1	27.6	26.9	26.3
85°	14.5	15.2	14.3	14.1	14.3	15.2	14.5	13.6	13.6	13.6	13.4
87.5°	10.1	10.2	10.1	10.1	10.1	10.2	10.1	10.0	10.6	9.8	9.6
90°	33.6	34.1	34.6	35.2	34.6	34.1	33.6	33.1	32.3	31.3	30.3
92.5°	48.4	48.1	47.7	47.4	47.7	48.1	48.4	48.7	48.4	47.6	46.8
95°	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.0	90.0	88.9
97.5°	141.1	141.0	140.9	140.8	140.9	141.0	141.1	141.2	140.7	139.5	138.3
100°	176.8	177.3	177.8	178.3	177.8	177.3	176.8	176.2	175.6	174.8	174.0
102.5°	217.1	217.0	216.9	216.8	216.9	217.0	217.1	217.2	216.9	216.1	215.3
105°	277.7	278.2	278.7	279.2	278.7	278.2	277.7	277.2	276.9	276.9	276.9
107.5°	345.2	344.9	344.6	344.3	344.6	344.9	345.2	345.5	345.3	344.5	343.6
110°	389.9	389.4	388.9	388.4	388.9	389.4	389.9	390.4	390.2	389.2	388.1



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	435.7	435.6	435.5	435.4	435.5	435.6	435.7	435.8	435.2	433.9	432.6
115°	500.6	500.4	500.1	499.9	500.1	500.4	500.6	500.9	500.9	500.6	500.4
117.5°	567.5	566.7	566.0	565.3	566.0	566.7	567.5	568.3	568.7	568.7	568.8
120°	612.9	612.4	611.9	611.3	611.9	612.4	612.9	613.4	613.8	614.1	614.3
122.5°	657.6	656.9	656.1	655.4	656.1	656.9	657.6	658.3	659.0	659.7	660.5
125°	724.8	723.7	722.7	721.6	722.7	723.7	724.8	725.8	726.8	727.9	728.9
127.5°	791.1	789.9	788.7	787.6	788.7	789.9	791.1	792.3	793.7	795.2	796.6
130°	836.2	834.4	832.5	830.7	832.5	834.4	836.2	838.0	839.5	840.5	841.5
132.5°	880.0	878.6	877.2	875.8	877.2	878.6	880.0	881.4	882.7	884.0	885.2
135°	947.3	946.7	946.2	945.7	946.2	946.7	947.3	947.8	948.6	949.6	950.7
137.5°	1010.4	1009.5	1008.5	1007.4	1008.5	1009.5	1010.4	1011.4	1012.4	1013.5	1014.6
140°	1053.3	1051.5	1049.7	1047.8	1049.7	1051.5	1053.3	1055.1	1056.1	1056.4	1056.6
142.5°	1093.3	1091.9	1090.6	1089.1	1090.6	1091.9	1093.3	1094.7	1095.6	1095.8	1096.1
145°	1151.9	1150.7	1149.7	1148.7	1149.7	1150.7	1151.9	1152.9	1153.6	1153.8	1154.1
147.5°	1206.4	1204.9	1203.3	1201.7	1203.3	1204.9	1206.4	1208.0	1208.8	1208.8	1208.8
150°	1240.2	1238.7	1237.1	1235.6	1237.1	1238.7	1240.2	1241.8	1242.5	1242.5	1242.5
152.5°	1272.4	1271.1	1269.7	1268.4	1269.7	1271.1	1272.4	1273.8	1274.2	1273.8	1273.4
155°	1318.5	1316.7	1314.8	1312.9	1314.8	1316.7	1318.5	1320.3	1320.7	1319.6	1318.6
157.5°	1358.0	1356.5	1355.0	1353.5	1355.0	1356.5	1358.0	1359.4	1359.6	1358.5	1357.4
160°	1383.0	1381.9	1380.9	1379.9	1380.9	1381.9	1383.0	1384.0	1383.9	1382.6	1381.3
162.5°	1404.5	1402.9	1401.2	1399.6	1401.2	1402.9	1404.5	1406.2	1406.4	1405.1	1403.8
165°	1433.4	1431.6	1429.8	1427.9	1429.8	1431.6	1433.4	1435.2	1435.4	1433.8	1432.3
167.5°	1456.9	1455.3	1453.7	1452.1	1453.7	1455.3	1456.9	1458.5	1458.5	1456.9	1455.3
170°	1469.9	1467.9	1466.1	1464.3	1466.1	1467.9	1469.9	1471.7	1471.7	1469.9	1467.9
172.5°	1479.1	1477.3	1475.5	1473.7	1475.5	1477.3	1479.1	1481.1	1481.2	1479.6	1477.9
175°	1489.8	1487.9	1486.1	1484.3	1486.1	1487.9	1489.8	1491.6	1491.7	1490.2	1488.5
177.5°	1494.3	1492.8	1491.4	1490.0	1491.4	1492.8	1494.3	1495.7	1495.8	1494.6	1493.4
180°	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5
2.5°	465.6	465.6	469.2	471.5	474.3	476.2	477.5	478.8	481.1	484.0	487.5
5°	439.0	439.9	445.1	450.3	455.2	459.5	463.0	467.3	472.4	478.8	485.8
7.5°	413.2	416.9	422.0	428.4	435.3	441.4	447.7	454.6	462.0	471.3	481.2
10°	396.7	400.6	407.0	415.1	422.3	429.6	437.4	444.8	454.0	465.1	477.9
12.5°	382.1	386.0	392.5	401.2	408.2	416.3	425.2	434.9	445.2	458.5	472.9
15°	362.0	366.6	374.6	378.8	389.4	399.0	407.3	421.3	434.5	448.2	464.8
17.5°	345.6	348.1	354.6	362.4	370.3	381.2	391.9	403.7	416.9	433.5	454.4
20°	334.3	336.4	343.5	351.7	360.2	370.1	379.7	391.5	406.3	423.9	446.6
22.5°	325.9	328.1	332.8	341.5	349.4	357.7	367.3	381.3	397.1	414.3	438.8
25°	313.6	315.0	318.1	325.2	332.1	341.3	349.8	363.0	379.2	399.5	423.9
27.5°	301.9	303.4	305.9	310.9	317.6	325.0	334.3	345.4	361.8	383.8	409.8
30°	295.0	295.3	297.6	302.4	308.0	314.1	322.6	335.3	350.8	373.1	400.4
32.5°	289.0	288.1	289.7	293.3	298.7	304.9	311.8	324.4	339.3	361.2	389.3
35°	278.8	278.3	277.6	280.6	285.4	290.0	296.2	305.6	322.6	343.1	372.4
37.5°	268.4	267.2	266.0	267.4	271.0	276.0	281.2	289.6	304.3	326.8	355.0
40°	260.6	259.7	259.0	258.5	261.9	266.5	270.5	278.5	292.2	313.6	341.3
42.5°	252.2	251.7	250.7	250.0	252.8	256.4	260.5	267.6	281.2	301.3	327.6
45°	238.5	238.1	237.6	237.1	238.8	242.1	245.4	250.5	262.4	281.9	305.6
47.5°	223.4	222.8	223.0	222.2	223.8	226.0	228.3	233.9	245.1	260.9	278.3
50°	212.5	212.2	212.2	212.2	212.7	215.3	217.4	221.7	232.0	247.7	260.2
52.5°	202.1	201.1	201.1	201.5	202.4	204.0	205.3	210.0	218.9	232.0	243.3
55°	185.8	184.0	183.5	184.0	184.7	186.1	187.5	191.3	199.0	208.6	215.3
57.5°	167.8	166.8	166.2	166.3	166.7	167.8	169.0	173.0	179.2	184.2	188.4
60°	155.3	155.7	153.6	154.1	154.1	155.0	156.7	159.3	164.4	167.9	172.2
62.5°	143.4	142.8	142.2	141.5	141.5	141.9	144.1	146.1	150.6	152.4	155.6
65°	124.9	124.9	123.5	124.0	124.2	122.6	123.7	126.1	129.0	129.7	132.7
67.5°	106.2	105.5	104.7	104.0	104.0	103.9	104.5	105.6	107.8	108.1	110.4
70°	93.4	92.9	92.7	92.0	91.1	92.2	91.5	92.7	93.9	94.1	95.5
72.5°	81.0	80.5	80.1	79.4	79.0	78.9	78.9	80.3	81.1	80.8	82.3
75°	63.3	62.8	62.3	61.2	61.2	60.5	60.7	61.6	62.6	61.9	63.3
77.5°	46.5	45.0	44.9	45.2	44.4	44.6	44.3	44.2	44.6	44.6	45.9
80°	35.7	34.1	34.5	34.3	34.1	33.8	33.4	33.6	33.8	34.1	34.8
82.5°	25.8	25.7	25.1	25.1	24.8	24.2	24.0	24.4	24.6	24.5	25.0
85°	13.1	12.4	12.9	12.7	12.9	12.7	12.0	12.0	12.4	12.2	12.7
87.5°	9.8	9.6	8.7	8.2	7.4	6.9	6.1	5.8	5.5	4.8	4.7
90°	29.2	28.2	24.7	21.4	18.0	14.6	11.6	9.0	6.4	3.7	1.2
92.5°	45.8	45.0	43.1	41.2	39.3	37.4	35.4	33.7	31.9	30.2	28.4
95°	87.9	86.8	84.7	82.6	80.6	78.5	76.5	74.7	72.9	71.1	69.3
97.5°	137.0	135.8	134.3	132.9	131.4	129.9	128.4	127.0	125.7	124.3	123.0
100°	173.3	172.5	171.2	169.9	168.5	167.2	165.8	164.3	162.7	161.2	159.6
102.5°	214.6	213.8	212.1	210.4	208.6	206.9	205.6	204.6	203.7	202.8	201.8
105°	276.9	276.9	274.6	272.3	269.8	267.5	266.1	265.6	265.1	264.5	264.0
107.5°	342.7	341.9	340.9	340.0	339.1	338.2	337.5	337.2	336.9	336.6	336.3
110°	387.1	386.1	385.5	385.0	384.5	384.0	383.4	382.9	382.3	381.8	381.3



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	431.4	430.1	430.0	429.9	429.8	429.7	429.5	429.2	428.9	428.6	428.3
115°	500.1	499.9	500.4	500.9	501.4	501.9	501.8	501.0	500.2	499.5	498.7
117.5°	568.8	568.9	569.6	570.2	570.9	571.6	571.6	571.1	570.6	570.1	569.6
120°	614.6	614.8	616.1	617.4	618.7	620.1	620.0	618.3	616.8	615.2	613.7
122.5°	661.1	661.8	662.5	663.1	663.8	664.5	664.3	663.1	662.0	660.8	659.6
125°	729.9	731.0	731.5	732.1	732.6	733.1	733.0	732.2	731.3	730.6	729.8
127.5°	798.1	799.5	800.1	800.6	801.2	801.8	801.2	799.6	797.9	796.3	794.6
130°	842.6	843.6	844.4	845.2	846.0	846.8	846.1	844.0	841.9	839.8	837.8
132.5°	886.5	887.8	888.3	888.9	889.5	890.1	889.3	887.2	885.1	883.0	880.9
135°	951.7	952.7	953.0	953.3	953.5	953.8	953.1	951.6	950.0	948.5	946.8
137.5°	1015.7	1016.8	1016.1	1015.4	1014.8	1014.1	1013.1	1011.8	1010.5	1009.2	1007.9
140°	1056.9	1057.2	1056.9	1056.6	1056.4	1056.1	1055.3	1054.1	1052.8	1051.5	1050.2
142.5°	1096.3	1096.6	1096.1	1095.7	1095.2	1094.7	1093.9	1092.6	1091.3	1089.9	1088.6
145°	1154.3	1154.6	1153.8	1153.0	1152.3	1151.4	1150.7	1150.2	1149.7	1149.2	1148.7
147.5°	1208.8	1208.8	1208.0	1207.3	1206.6	1205.9	1205.1	1204.1	1203.2	1202.2	1201.2
150°	1242.5	1242.5	1242.0	1241.5	1241.0	1240.5	1240.0	1239.4	1238.9	1238.4	1237.9
152.5°	1273.0	1272.6	1272.3	1272.0	1271.6	1271.3	1270.8	1270.1	1269.4	1268.7	1267.9
155°	1317.6	1316.5	1316.3	1316.0	1315.8	1315.5	1315.3	1315.3	1315.3	1315.3	1315.3
157.5°	1356.3	1355.2	1355.0	1354.8	1354.6	1354.3	1354.4	1354.7	1355.0	1355.3	1355.6
160°	1380.0	1378.7	1378.7	1378.7	1378.7	1378.7	1379.0	1379.5	1380.0	1380.5	1381.0
162.5°	1402.5	1401.2	1401.0	1400.8	1400.6	1400.4	1400.7	1401.4	1402.1	1402.8	1403.5
165°	1430.7	1429.2	1429.2	1429.2	1429.2	1429.2	1429.6	1430.3	1431.1	1431.9	1432.7
167.5°	1453.7	1452.1	1451.9	1451.7	1451.5	1451.3	1451.7	1452.8	1453.8	1454.8	1455.9
170°	1466.1	1464.3	1464.3	1464.3	1464.3	1464.3	1464.8	1465.9	1466.9	1467.9	1469.1
172.5°	1476.3	1474.7	1474.7	1474.7	1474.7	1474.7	1475.2	1476.2	1477.2	1478.3	1479.4
175°	1487.0	1485.4	1485.4	1485.4	1485.4	1485.4	1486.0	1487.0	1488.0	1489.1	1490.2
177.5°	1492.1	1490.9	1490.9	1490.9	1490.9	1490.9	1491.3	1492.1	1493.0	1493.8	1494.6
180°	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5
2.5°	488.6	489.6	492.7	495.0	497.7	499.2	500.6	501.8	503.3	503.6	509.1
5°	490.8	495.4	503.7	509.8	517.4	525.5	531.2	533.8	540.7	546.2	557.5
7.5°	490.2	500.2	512.6	525.5	539.3	552.1	563.2	576.4	585.7	599.9	613.7
10°	489.6	503.0	519.0	535.4	554.7	572.6	588.7	606.5	621.4	640.9	657.5
12.5°	487.9	504.1	526.3	545.8	569.3	593.9	617.6	640.6	653.7	686.2	701.6
15°	483.7	503.0	530.8	560.4	592.6	621.8	651.9	675.9	714.7	743.2	761.3
17.5°	475.7	502.7	535.6	571.4	610.6	649.0	683.2	719.5	760.7	795.2	831.9
20°	471.9	501.6	538.3	577.8	618.5	662.1	700.8	744.6	789.5	823.4	870.5
22.5°	464.9	498.6	538.1	582.1	625.6	670.7	716.1	760.2	812.1	858.8	903.6
25°	453.6	491.2	532.2	581.4	632.4	677.5	732.0	790.5	844.6	904.6	949.3
27.5°	441.6	481.8	522.8	568.6	623.5	677.1	745.5	811.6	877.8	929.6	962.7
30°	432.4	471.5	513.8	560.0	614.3	678.0	754.5	826.7	891.2	935.6	954.2
32.5°	422.4	462.0	499.5	547.9	605.8	677.4	760.1	835.6	891.9	921.5	917.9
35°	406.8	439.9	476.5	523.0	591.2	673.3	763.5	836.4	870.9	864.5	816.6
37.5°	384.2	412.1	448.0	499.0	574.3	664.6	756.8	811.5	809.3	757.6	688.0
40°	370.1	393.8	428.4	482.0	561.1	658.9	746.5	782.0	751.9	679.6	596.4
42.5°	351.6	373.5	408.1	463.2	546.6	647.5	726.7	737.0	678.1	595.0	518.7
45°	323.1	342.3	378.1	435.0	524.8	622.5	678.5	653.3	574.0	488.2	430.1
47.5°	292.3	312.4	346.7	405.3	493.4	584.9	611.6	558.1	476.7	407.0	353.7
50°	272.9	292.2	325.9	384.9	472.2	554.0	565.1	495.9	421.1	359.9	316.2
52.5°	253.4	271.5	304.6	363.9	447.4	518.3	511.5	441.0	372.2	320.0	285.7
55°	224.2	241.4	272.9	328.4	404.5	460.6	436.0	368.7	311.7	271.2	245.1
57.5°	198.1	214.6	241.8	292.0	358.0	396.7	365.3	308.5	263.3	232.1	212.7
60°	180.5	195.0	221.0	267.5	324.9	354.3	323.3	273.2	235.0	210.1	192.7
62.5°	163.7	176.4	200.4	242.7	292.6	317.2	285.8	243.4	211.0	188.8	174.0
65°	138.4	149.9	171.1	204.0	244.9	261.4	234.3	200.0	174.8	158.3	148.5
67.5°	115.2	125.0	143.3	169.2	199.3	211.3	190.7	164.1	145.1	131.9	124.1
70°	99.8	108.3	122.6	144.9	172.2	181.4	162.1	140.2	126.3	115.7	108.5
72.5°	86.7	93.0	106.0	123.3	146.0	153.3	139.9	120.7	107.8	99.8	93.9
75°	66.1	71.3	79.8	93.6	109.4	113.6	103.5	91.5	82.8	77.2	72.7
77.5°	47.7	51.5	57.6	66.1	77.1	80.9	74.5	66.4	60.1	56.4	53.8
80°	36.0	39.1	44.2	51.3	57.9	60.0	56.2	50.1	45.6	43.5	41.4
82.5°	26.6	28.3	31.4	36.3	40.7	43.2	40.1	36.4	33.9	32.0	31.2
85°	13.4	14.3	15.8	17.7	20.5	21.4	20.2	19.3	17.9	16.7	16.7
87.5°	5.7	6.2	7.3	8.2	9.5	10.7	11.2	11.5	12.0	12.0	12.1
90°	3.7	6.4	9.0	11.6	14.6	18.0	21.4	24.7	28.2	29.2	30.3
92.5°	30.2	31.9	33.7	35.4	37.4	39.3	41.2	43.1	45.0	45.8	46.8
95°	71.1	72.9	74.7	76.5	78.5	80.6	82.6	84.7	86.8	87.9	88.9
97.5°	124.3	125.7	127.0	128.4	129.9	131.4	132.9	134.3	135.8	137.0	138.3
100°	161.2	162.7	164.3	165.8	167.2	168.5	169.9	171.2	172.5	173.3	174.0
102.5°	202.8	203.7	204.6	205.6	206.9	208.6	210.4	212.1	213.8	214.6	215.3
105°	264.5	265.1	265.6	266.1	267.5	269.8	272.3	274.6	276.9	276.9	276.9
107.5°	336.6	336.9	337.2	337.5	338.2	339.1	340.0	340.9	341.9	342.7	343.6
110°	381.8	382.3	382.9	383.4	384.0	384.5	385.0	385.5	386.1	387.1	388.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	428.6	428.9	429.2	429.5	429.7	429.8	429.9	430.0	430.1	431.4	432.6
115°	499.5	500.2	501.0	501.8	501.9	501.4	500.9	500.4	499.9	500.1	500.4
117.5°	570.1	570.6	571.1	571.6	571.6	570.9	570.2	569.6	568.9	568.8	568.8
120°	615.2	616.8	618.3	620.0	620.1	618.7	617.4	616.1	614.8	614.6	614.3
122.5°	660.8	662.0	663.1	664.3	664.5	663.8	663.1	662.5	661.8	661.1	660.5
125°	730.6	731.3	732.2	733.0	733.1	732.6	732.1	731.5	731.0	729.9	728.9
127.5°	796.3	797.9	799.6	801.2	801.8	801.2	800.6	800.1	799.5	798.1	796.6
130°	839.8	841.9	844.0	846.1	846.8	846.0	845.2	844.4	843.6	842.6	841.5
132.5°	883.0	885.1	887.2	889.3	890.1	889.5	888.9	888.3	887.8	886.5	885.2
135°	948.5	950.0	951.6	953.1	953.8	953.5	953.3	953.0	952.7	951.7	950.7
137.5°	1009.2	1010.5	1011.8	1013.1	1014.1	1014.8	1015.4	1016.1	1016.8	1015.7	1014.6
140°	1051.5	1052.8	1054.1	1055.3	1056.1	1056.4	1056.6	1056.9	1057.2	1056.9	1056.6
142.5°	1089.9	1091.3	1092.6	1093.9	1094.7	1095.2	1095.7	1096.1	1096.6	1096.3	1096.1
145°	1149.2	1149.7	1150.2	1150.7	1151.4	1152.3	1153.0	1153.8	1154.6	1154.3	1154.1
147.5°	1202.2	1203.2	1204.1	1205.1	1205.9	1206.6	1207.3	1208.0	1208.8	1208.8	1208.8
150°	1238.4	1238.9	1239.4	1240.0	1240.5	1241.0	1241.5	1242.0	1242.5	1242.5	1242.5
152.5°	1268.7	1269.4	1270.1	1270.8	1271.3	1271.6	1272.0	1272.3	1272.6	1273.0	1273.4
155°	1315.3	1315.3	1315.3	1315.3	1315.5	1315.8	1316.0	1316.3	1316.5	1317.6	1318.6
157.5°	1355.3	1355.0	1354.7	1354.4	1354.3	1354.6	1354.8	1355.0	1355.2	1356.3	1357.4
160°	1380.5	1380.0	1379.5	1379.0	1378.7	1378.7	1378.7	1378.7	1378.7	1380.0	1381.3
162.5°	1402.8	1402.1	1401.4	1400.7	1400.4	1400.6	1400.8	1401.0	1401.2	1402.5	1403.8
165°	1431.9	1431.1	1430.3	1429.6	1429.2	1429.2	1429.2	1429.2	1429.2	1430.7	1432.3
167.5°	1454.8	1453.8	1452.8	1451.7	1451.3	1451.5	1451.7	1451.9	1452.1	1453.7	1455.3
170°	1467.9	1466.9	1465.9	1464.8	1464.3	1464.3	1464.3	1464.3	1464.3	1466.1	1467.9
172.5°	1478.3	1477.2	1476.2	1475.2	1474.7	1474.7	1474.7	1474.7	1474.7	1476.3	1477.9
175°	1489.1	1488.0	1487.0	1486.0	1485.4	1485.4	1485.4	1485.4	1485.4	1487.0	1488.5
177.5°	1493.8	1493.0	1492.1	1491.3	1490.9	1490.9	1490.9	1490.9	1490.9	1492.1	1493.4
180°	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	485.5	485.5	485.5	485.5	485.5	485.5	485.5
2.5°	511.0	511.2	513.2	514.7	514.0	514.9	515.3
5°	558.3	566.7	571.2	574.5	574.7	575.0	576.8
7.5°	625.3	634.4	641.1	651.2	654.1	657.5	656.6
10°	674.3	687.7	699.2	705.3	712.0	721.5	713.8
12.5°	720.0	743.8	761.3	770.8	777.0	778.9	775.2
15°	795.5	826.5	843.1	842.7	863.8	873.0	858.7
17.5°	864.5	893.2	916.3	928.0	945.6	949.5	947.8
20°	907.0	938.3	956.1	976.3	985.5	993.7	995.1
22.5°	943.4	971.6	990.8	1007.5	1015.2	1019.2	1021.5
25°	981.1	1003.2	1014.7	1020.6	1022.7	1022.2	1019.2
27.5°	978.5	980.2	967.5	955.0	943.8	931.3	927.0
30°	953.0	933.3	898.0	878.0	848.6	825.3	834.8
32.5°	886.3	846.9	807.3	763.6	727.4	717.1	706.7
35°	756.4	687.2	646.7	599.7	580.9	562.1	549.1
37.5°	611.9	558.5	510.4	479.7	460.8	448.9	442.5
40°	529.1	480.9	441.3	416.4	402.0	388.7	386.8
42.5°	463.0	418.2	388.5	368.6	354.9	349.1	345.0
45°	379.2	348.0	328.0	313.9	304.7	301.1	296.4
47.5°	321.0	298.9	283.9	274.3	267.3	264.7	264.4
50°	288.4	270.0	259.0	251.5	246.1	245.1	241.4
52.5°	264.0	248.0	239.4	232.9	228.9	226.3	225.2
55°	229.1	218.5	210.8	207.0	204.0	201.4	201.4
57.5°	200.5	191.7	186.5	183.3	182.4	180.6	179.4
60°	182.8	175.3	171.3	168.4	166.5	166.8	164.7
62.5°	165.5	160.6	156.7	154.0	151.7	151.8	151.9
65°	140.9	137.1	134.3	133.4	132.0	130.4	130.8
67.5°	119.5	115.9	113.7	112.1	111.6	110.7	112.1
70°	104.0	101.4	99.8	98.4	97.9	98.1	99.3
72.5°	89.9	88.1	86.9	86.3	85.2	85.3	86.1
75°	70.6	69.2	68.3	67.6	67.3	67.3	67.3
77.5°	51.8	51.5	51.1	50.1	50.1	50.4	50.4
80°	40.9	40.2	40.0	39.5	38.8	38.4	39.5
82.5°	30.6	29.9	29.7	29.6	28.5	28.4	29.4
85°	16.5	15.8	16.0	15.8	15.8	15.6	15.6
87.5°	12.1	12.1	12.1	12.4	12.3	12.2	12.7
90°	31.3	32.3	33.1	33.6	34.1	34.6	35.2
92.5°	47.6	48.4	48.7	48.4	48.1	47.7	47.4
95°	90.0	91.0	91.5	91.5	91.5	91.5	91.5
97.5°	139.5	140.7	141.2	141.1	141.0	140.9	140.8
100°	174.8	175.6	176.2	176.8	177.3	177.8	178.3
102.5°	216.1	216.9	217.2	217.1	217.0	216.9	216.8
105°	276.9	276.9	277.2	277.7	278.2	278.7	279.2
107.5°	344.5	345.3	345.5	345.2	344.9	344.6	344.3
110°	389.2	390.2	390.4	389.9	389.4	388.9	388.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	433.9	435.2	435.8	435.7	435.6	435.5	435.4
115°	500.6	500.9	500.9	500.6	500.4	500.1	499.9
117.5°	568.7	568.7	568.3	567.5	566.7	566.0	565.3
120°	614.1	613.8	613.4	612.9	612.4	611.9	611.3
122.5°	659.7	659.0	658.3	657.6	656.9	656.1	655.4
125°	727.9	726.8	725.8	724.8	723.7	722.7	721.6
127.5°	795.2	793.7	792.3	791.1	789.9	788.7	787.6
130°	840.5	839.5	838.0	836.2	834.4	832.5	830.7
132.5°	884.0	882.7	881.4	880.0	878.6	877.2	875.8
135°	949.6	948.6	947.8	947.3	946.7	946.2	945.7
137.5°	1013.5	1012.4	1011.4	1010.4	1009.5	1008.5	1007.4
140°	1056.4	1056.1	1055.1	1053.3	1051.5	1049.7	1047.8
142.5°	1095.8	1095.6	1094.7	1093.3	1091.9	1090.6	1089.1
145°	1153.8	1153.6	1152.9	1151.9	1150.7	1149.7	1148.7
147.5°	1208.8	1208.8	1208.0	1206.4	1204.9	1203.3	1201.7
150°	1242.5	1242.5	1241.8	1240.2	1238.7	1237.1	1235.6
152.5°	1273.8	1274.2	1273.8	1272.4	1271.1	1269.7	1268.4
155°	1319.6	1320.7	1320.3	1318.5	1316.7	1314.8	1312.9
157.5°	1358.5	1359.6	1359.4	1358.0	1356.5	1355.0	1353.5
160°	1382.6	1383.9	1384.0	1383.0	1381.9	1380.9	1379.9
162.5°	1405.1	1406.4	1406.2	1404.5	1402.9	1401.2	1399.6
165°	1433.8	1435.4	1435.2	1433.4	1431.6	1429.8	1427.9
167.5°	1456.9	1458.5	1458.5	1456.9	1455.3	1453.7	1452.1
170°	1469.9	1471.7	1471.7	1469.9	1467.9	1466.1	1464.3
172.5°	1479.6	1481.2	1481.1	1479.1	1477.3	1475.5	1473.7
175°	1490.2	1491.7	1491.6	1489.8	1487.9	1486.1	1484.3
177.5°	1494.6	1495.8	1495.7	1494.3	1492.8	1491.4	1490.0
180°	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7

(END OF REPORT)