

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: P331946-935

Luminaire Tested: **S123DIP-S560D1195U935-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331946-935
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: S123DIP-S560D1195U935-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1195 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6164.0 lumens
Efficiency: N/A
Efficacy: 124.8 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

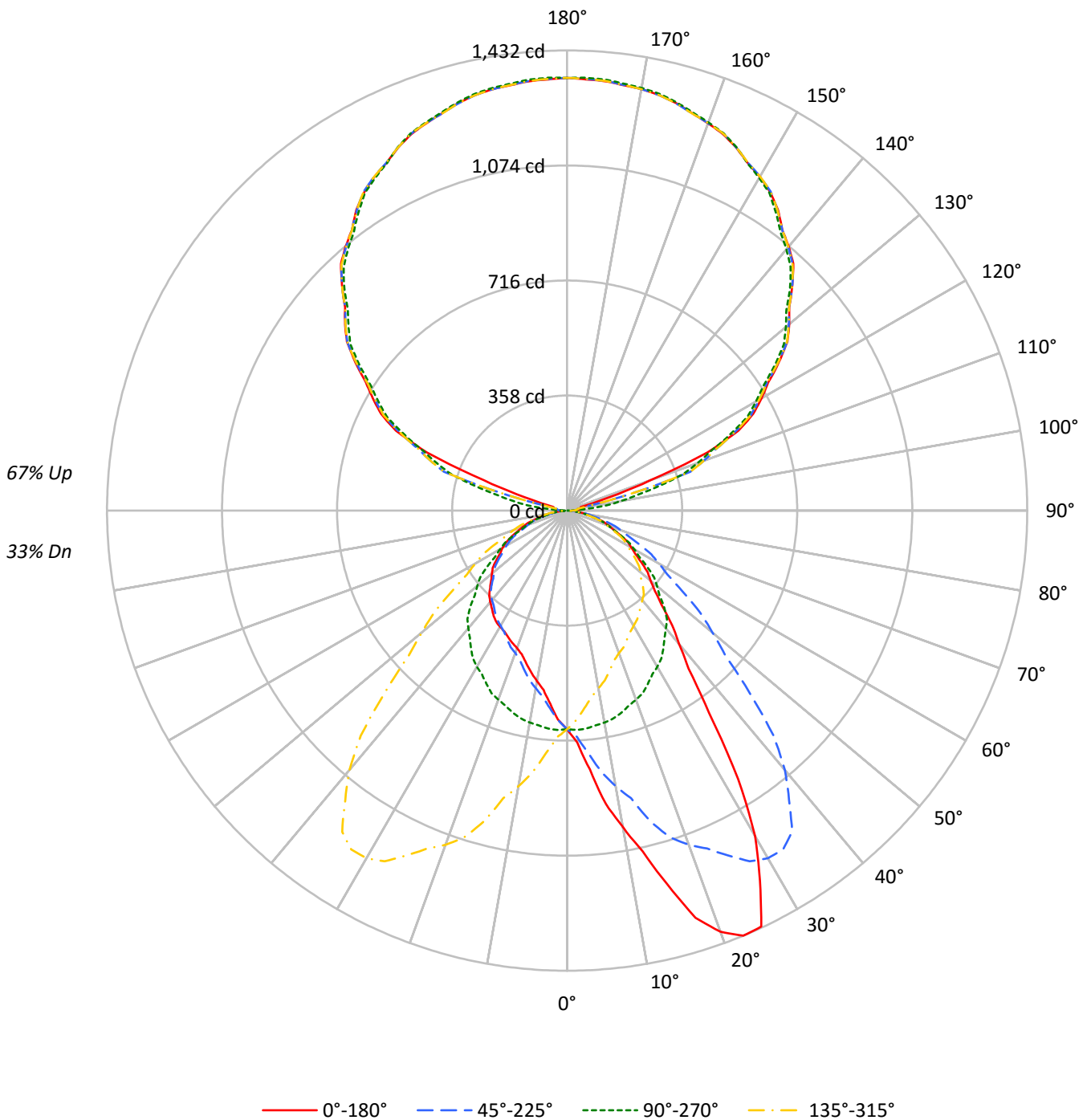
Input Watts (W): 49.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	33
1	94	90	86	83	85	81	78	75	65	63	61	50	49	48	36	36	35	28
2	86	79	73	68	77	71	66	62	57	54	51	44	42	40	32	31	30	24
3	78	69	62	57	70	63	57	52	51	46	43	39	36	34	29	27	25	21
4	72	61	54	48	64	56	49	44	45	40	37	35	32	29	26	24	22	18
5	66	55	47	41	59	50	43	38	40	35	31	31	28	25	23	21	19	16
6	61	49	41	36	54	45	38	33	36	31	27	28	25	22	21	19	17	14
7	56	44	36	31	50	40	33	29	33	28	24	26	22	19	19	17	15	12
8	52	40	32	27	47	36	30	25	30	25	21	23	20	17	18	15	13	11
9	48	36	29	24	43	33	27	22	27	22	19	22	18	15	16	14	12	10
10	45	33	26	22	41	30	24	20	25	20	17	20	16	14	15	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7326	7326	7326	7326
5°	8737	7358	6521	7358
10°	10935	7321	5889	7321
15°	13412	7261	5483	7261
20°	15978	7170	5220	7170
25°	16966	7058	5162	7058
30°	14542	6976	5189	6976
35°	10113	6859	5243	6859
40°	7617	6724	5227	6724
45°	6325	6520	5160	6520
50°	5667	6107	5114	6107
55°	5296	5662	5050	5662
60°	4969	5197	4997	5197
65°	4669	4737	4837	4737
70°	4378	4214	4607	4214
75°	3922	3689	4225	3689
80°	3434	3025	3639	3025
85°	2692	2198	2445	2198



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.0	1.1
10°-20°	215.0	3.5
20°-30°	360.8	5.9
30°-40°	408.6	6.6
40°-50°	366.4	5.9
50°-60°	295.7	4.8
60°-70°	206.0	3.3
70°-80°	108.3	1.8
80°-90°	30.3	0.5
90°-100°	48.9	0.8
100°-110°	233.3	3.8
110°-120°	560.4	9.1
120°-130°	713.6	11.6
130°-140°	762.5	12.4
140°-150°	713.0	11.6
150°-160°	575.1	9.3
160°-170°	371.2	6.0
170°-180°	127.9	2.1
0°-30°	642.9	10.4
0°-40°	1051.4	17.1
0°-60°	1713.5	27.8
0°-90°	2058.0	33.4
90°-120°	842.6	13.7
90°-150°	3031.7	49.2
90°-180°	4106.0	66.6
0°-180°	6164.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	681	681	681	681	681	
5°	809	681	604	681	809	84
15°	1204	652	492	652	1204	348
25°	1428	594	435	594	1428	626
35°	770	522	399	522	770	500
45°	416	428	339	428	416	329
55°	282	302	269	302	282	253
65°	183	186	190	186	183	183
75°	94	89	102	89	94	101
85°	22	18	20	18	22	27
90°	30	1	30	1	30	15
95°	38	61	38	61	38	32
105°	44	298	44	298	44	101
115°	588	559	588	559	588	543
125°	804	788	804	788	804	718
135°	991	981	991	981	991	764
145°	1143	1132	1143	1132	1143	714
155°	1245	1247	1245	1247	1245	574
165°	1312	1315	1312	1315	1312	371
175°	1341	1346	1341	1346	1341	128
180°	1346	1346	1346	1346	1346	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6
2.5°	722.3	721.8	720.5	721.5	719.4	716.5	716.3	713.6	705.9	705.4	703.4
5°	808.6	805.9	805.6	805.3	800.6	794.4	782.5	781.5	765.7	757.8	748.2
7.5°	920.3	921.7	916.9	912.7	898.5	889.2	876.5	860.2	840.8	821.0	807.9
10°	1000.5	1011.3	997.8	988.6	980.1	963.9	945.1	921.7	898.3	870.9	850.2
12.5°	1086.5	1091.8	1089.2	1080.4	1067.1	1042.5	1009.2	983.4	961.8	916.3	897.9
15°	1203.6	1223.7	1210.9	1181.2	1181.9	1158.5	1114.9	1067.1	1041.7	1001.8	947.4
17.5°	1328.4	1330.9	1325.4	1300.7	1284.2	1252.1	1211.9	1166.1	1114.6	1066.3	1008.6
20°	1394.9	1392.9	1381.4	1368.5	1340.1	1315.1	1271.2	1220.1	1154.2	1106.6	1043.7
22.5°	1431.8	1428.5	1423.1	1412.3	1388.7	1361.8	1322.4	1266.5	1203.8	1138.3	1065.6
25°	1428.5	1432.8	1433.5	1430.5	1422.3	1406.1	1375.1	1330.6	1267.9	1183.9	1108.0
27.5°	1299.2	1305.3	1322.9	1338.6	1356.1	1373.8	1371.5	1349.4	1303.0	1230.4	1137.6
30°	1170.0	1156.8	1189.5	1230.6	1258.7	1308.1	1335.8	1337.5	1311.5	1249.1	1158.7
32.5°	990.6	1005.1	1019.5	1070.2	1131.5	1187.1	1242.2	1286.6	1291.7	1250.2	1171.1
35°	769.6	787.8	814.2	840.6	906.5	963.2	1060.1	1144.6	1211.9	1220.7	1172.3
37.5°	620.2	629.2	645.8	672.3	715.4	782.7	857.7	964.4	1061.9	1134.4	1137.6
40°	542.1	544.8	563.5	583.7	618.6	674.0	741.7	835.9	952.7	1054.0	1096.1
42.5°	483.5	489.4	497.3	516.7	544.5	586.2	649.0	727.0	834.0	950.5	1033.0
45°	415.5	422.1	427.1	439.9	459.7	487.7	531.6	602.8	684.2	804.6	915.8
47.5°	370.5	371.0	374.7	384.4	397.9	419.0	450.0	495.7	570.5	668.0	782.2
50°	338.4	343.6	344.9	352.5	363.1	378.6	404.3	443.2	504.5	590.3	695.2
52.5°	315.6	317.2	320.9	326.4	335.6	347.7	370.0	400.5	448.6	521.7	618.1
55°	282.2	282.2	285.9	290.2	295.5	306.3	321.2	343.6	380.2	437.0	516.8
57.5°	251.4	253.0	255.6	256.9	261.4	268.6	281.0	298.1	325.4	369.0	432.5
60°	230.8	233.8	233.5	236.1	240.0	245.6	256.2	270.1	294.5	329.4	382.9
62.5°	212.9	212.7	212.7	215.8	219.7	225.1	232.0	243.9	264.7	295.7	341.1
65°	183.3	182.7	185.0	187.0	188.3	192.3	197.5	208.1	222.0	245.0	280.3
67.5°	157.1	155.2	156.4	157.1	159.4	162.5	167.4	173.9	184.9	203.5	230.1
70°	139.1	137.5	137.2	137.8	139.8	142.2	145.8	152.1	162.2	177.1	196.6
72.5°	120.7	119.6	119.5	121.0	121.9	123.4	126.0	131.7	139.8	150.9	169.1
75°	94.3	94.3	94.3	94.6	95.7	96.9	98.9	101.9	108.1	116.1	128.3
77.5°	70.7	70.6	70.3	70.2	71.6	72.2	72.7	75.4	79.0	84.3	93.2
80°	55.4	53.7	54.4	55.4	56.1	56.4	57.3	58.0	61.0	64.0	70.3
82.5°	41.2	39.8	39.9	41.4	41.6	41.8	42.9	43.8	44.9	47.6	51.0
85°	21.8	21.8	22.1	22.1	22.4	22.1	23.1	23.4	23.4	25.1	27.0
87.5°	13.9	13.3	13.4	13.7	13.3	13.4	13.5	13.6	13.7	13.8	13.4
90°	30.0	29.5	29.1	28.7	28.2	27.6	26.7	25.7	24.9	24.0	21.1
92.5°	33.2	33.0	32.7	32.4	32.1	31.3	29.9	28.4	27.0	25.6	23.4
95°	38.0	38.0	38.0	38.0	38.0	37.2	35.6	34.1	32.5	31.0	28.6
97.5°	41.2	41.0	40.8	40.6	40.3	39.3	37.5	35.7	34.0	32.2	48.2
100°	42.0	41.8	41.6	41.3	41.2	40.1	38.3	36.6	34.8	33.0	67.7
102.5°	42.8	42.4	42.0	41.6	41.2	43.7	49.2	54.8	60.3	65.8	103.7
105°	44.0	43.6	43.1	42.7	42.3	61.6	101.0	140.3	179.7	219.0	239.1
107.5°	138.3	167.9	197.5	227.2	256.8	286.1	315.0	343.8	372.6	401.6	398.4
110°	275.1	306.9	338.6	370.5	402.3	421.8	429.1	436.4	443.8	451.2	448.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	471.9	478.6	485.3	492.1	498.8	502.1	502.0	501.8	501.7	501.5	499.1
115°	588.1	587.3	586.4	585.5	584.6	583.1	580.8	578.6	576.4	574.2	572.2
117.5°	653.4	653.2	653.1	652.9	652.7	651.7	650.0	648.2	646.4	644.6	643.6
120°	698.2	698.2	698.2	698.2	698.2	697.3	695.5	693.8	692.0	690.2	689.6
122.5°	742.3	742.1	741.8	741.7	741.5	740.8	739.6	738.3	737.1	735.8	734.9
125°	804.3	803.8	803.4	802.9	802.5	802.0	801.6	801.2	800.7	800.2	799.4
127.5°	863.8	864.4	864.8	865.2	865.6	865.5	864.8	864.1	863.4	862.6	861.6
130°	902.3	902.8	903.2	903.6	904.0	903.9	902.9	902.1	901.2	900.3	899.4
132.5°	937.5	938.1	938.7	939.4	940.0	939.9	939.0	938.1	937.2	936.3	935.6
135°	991.4	992.0	992.6	993.3	994.0	994.0	993.3	992.6	992.0	991.4	990.4
137.5°	1041.9	1042.4	1042.8	1043.3	1043.7	1043.4	1042.3	1041.3	1040.2	1039.1	1038.6
140°	1072.4	1072.8	1073.2	1073.7	1074.1	1073.9	1073.0	1072.1	1071.3	1070.3	1069.7
142.5°	1100.4	1101.0	1101.6	1102.3	1102.9	1102.8	1102.1	1101.4	1100.7	1099.9	1099.3
145°	1143.3	1143.3	1143.3	1143.3	1143.3	1143.1	1142.7	1142.3	1141.8	1141.3	1140.9
147.5°	1175.4	1176.4	1177.4	1178.5	1179.5	1179.7	1179.3	1178.9	1178.5	1177.9	1177.5
150°	1199.4	1200.1	1200.8	1201.4	1202.0	1202.1	1201.7	1201.3	1200.8	1200.4	1200.0
152.5°	1218.6	1219.6	1220.6	1221.7	1222.7	1222.8	1222.0	1221.2	1220.4	1219.6	1219.3
155°	1245.4	1246.7	1248.1	1249.4	1250.7	1250.9	1249.7	1248.6	1247.5	1246.4	1246.2
157.5°	1268.0	1269.7	1271.4	1273.2	1275.0	1275.1	1273.8	1272.5	1271.2	1269.8	1270.1
160°	1282.4	1283.9	1285.6	1287.1	1288.7	1288.7	1287.4	1286.1	1284.8	1283.4	1283.7
162.5°	1296.0	1297.4	1298.7	1300.1	1301.5	1301.5	1299.9	1298.5	1296.9	1295.4	1295.6
165°	1312.4	1314.0	1315.5	1317.1	1318.6	1318.5	1316.7	1315.0	1313.2	1311.4	1311.6
167.5°	1324.2	1326.0	1327.7	1329.6	1331.4	1331.4	1329.6	1327.7	1326.0	1324.2	1324.2
170°	1331.5	1333.2	1335.0	1336.8	1338.5	1338.5	1336.8	1335.0	1333.2	1331.5	1331.5
172.5°	1335.4	1337.4	1339.4	1341.3	1343.2	1343.3	1341.5	1339.8	1338.0	1336.2	1336.0
175°	1341.4	1343.2	1345.0	1346.8	1348.5	1348.7	1347.1	1345.6	1344.0	1342.4	1342.2
177.5°	1343.2	1345.0	1346.8	1348.6	1350.3	1350.5	1349.1	1347.6	1346.3	1344.8	1344.6
180°	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6
2.5°	701.7	699.6	697.5	693.8	690.6	686.1	684.8	683.3	678.6	674.2	671.1
5°	744.6	736.7	725.1	714.5	706.0	694.5	687.9	681.0	671.1	662.2	654.9
7.5°	789.5	773.9	756.0	736.6	718.5	701.0	687.0	674.5	660.6	647.5	637.3
10°	825.1	802.6	777.6	750.5	727.5	705.0	686.2	669.8	651.9	636.5	623.5
12.5°	865.6	832.4	797.9	765.0	737.7	706.6	683.9	662.9	642.7	624.1	609.6
15°	913.8	871.6	830.7	785.5	743.9	705.0	678.0	651.6	628.2	609.1	590.6
17.5°	957.5	909.7	855.8	800.9	750.8	704.6	666.8	637.0	607.7	584.3	565.8
20°	982.3	927.9	866.9	809.9	754.5	703.0	661.5	625.9	594.3	569.5	548.7
22.5°	1003.8	940.0	876.9	816.0	754.2	698.8	651.8	615.1	580.7	556.6	534.5
25°	1025.9	949.7	886.4	814.9	745.9	688.5	635.8	594.3	559.9	531.6	508.9
27.5°	1044.9	949.1	873.9	796.9	732.9	675.4	619.1	574.5	538.0	507.2	484.1
30°	1057.6	950.4	861.0	784.8	720.2	660.8	606.1	561.3	523.0	491.6	469.9
32.5°	1065.5	949.6	849.1	767.9	700.2	647.6	592.1	545.7	506.4	475.6	454.6
35°	1070.1	943.7	828.7	733.1	667.8	616.6	570.2	522.0	480.8	452.1	428.3
37.5°	1060.8	931.6	804.9	699.4	627.9	577.6	538.5	497.5	458.1	426.5	406.0
40°	1046.3	923.7	786.4	675.7	600.5	552.0	518.8	478.5	439.5	409.6	390.5
42.5°	1018.6	907.6	766.2	649.3	572.0	523.5	492.8	459.3	422.4	394.3	375.1
45°	951.1	872.5	735.7	609.8	529.9	479.8	452.8	428.3	395.0	367.6	351.2
47.5°	857.2	819.8	691.6	568.0	486.0	437.8	409.7	390.0	365.7	343.6	327.8
50°	792.1	776.6	661.9	539.5	456.7	409.6	382.5	364.7	347.2	325.1	310.6
52.5°	716.9	726.4	627.0	510.0	426.9	380.6	355.1	341.0	325.1	306.9	294.3
55°	611.1	645.7	566.9	460.4	382.5	338.4	314.3	301.7	292.5	279.0	268.1
57.5°	512.0	555.9	501.8	409.2	338.9	300.8	277.8	264.1	258.1	251.1	242.5
60°	453.1	496.6	455.4	375.0	309.6	273.4	253.0	241.4	235.5	230.5	223.3
62.5°	400.6	444.6	410.0	340.1	280.9	247.3	229.5	218.2	213.5	210.9	204.7
65°	328.5	366.4	343.3	285.9	239.7	210.1	193.9	186.0	181.7	180.7	176.8
67.5°	267.3	296.2	279.4	237.1	200.8	175.1	161.4	154.7	151.4	151.1	148.1
70°	227.2	254.3	241.4	203.1	171.8	151.7	139.8	133.9	131.9	131.6	129.9
72.5°	196.0	214.9	204.7	172.8	148.6	130.4	121.6	115.4	113.1	113.7	112.5
75°	145.1	159.3	153.3	131.2	111.8	99.9	92.6	88.7	86.7	87.7	86.4
77.5°	104.4	113.4	108.1	92.7	80.8	72.2	66.8	64.4	62.6	62.5	61.9
80°	78.8	84.1	81.1	71.9	62.0	54.8	50.5	48.8	47.8	47.5	47.2
82.5°	56.1	60.6	57.1	50.8	44.1	39.7	37.3	35.1	34.4	34.5	34.3
85°	28.3	30.0	28.7	24.7	22.1	20.1	18.8	17.8	17.1	17.5	16.8
87.5°	13.4	13.1	11.7	10.2	9.2	7.9	7.5	6.5	6.5	6.9	7.1
90°	18.3	15.3	12.5	9.9	7.7	5.4	3.2	1.0	3.2	5.4	7.7
92.5°	21.3	19.1	16.9	16.1	16.7	17.4	18.0	18.6	18.0	17.4	16.7
95°	26.1	23.7	21.3	24.5	33.7	42.8	51.9	61.0	51.9	42.8	33.7
97.5°	64.2	80.2	96.3	106.2	110.4	114.4	118.6	122.6	118.6	114.4	110.4
100°	102.4	137.1	171.7	186.8	182.4	178.0	173.5	169.0	173.5	178.0	182.4
102.5°	141.5	179.4	217.3	234.7	231.4	228.3	225.1	221.9	225.1	228.3	231.4
105°	259.1	279.1	299.1	307.9	305.4	303.0	300.6	298.1	300.6	303.0	305.4
107.5°	395.2	392.1	388.9	386.3	384.4	382.5	380.5	378.5	380.5	382.5	384.4
110°	446.3	443.8	441.3	439.3	437.5	435.7	433.9	432.1	433.9	435.7	437.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	496.7	494.2	491.8	489.7	488.2	486.6	484.9	483.4	484.9	486.6	488.2
115°	570.2	568.2	566.2	564.5	563.2	561.8	560.5	559.2	560.5	561.8	563.2
117.5°	642.6	641.5	640.5	639.2	637.6	635.8	634.2	632.6	634.2	635.8	637.6
120°	688.9	688.2	687.6	686.2	684.2	682.3	680.2	678.2	680.2	682.3	684.2
122.5°	734.2	733.3	732.5	731.2	729.5	727.9	726.3	724.6	726.3	727.9	729.5
125°	798.5	797.5	796.7	795.4	793.6	791.8	790.1	788.2	790.1	791.8	793.6
127.5°	860.6	859.5	858.4	857.0	855.2	853.4	851.6	849.9	851.6	853.4	855.2
130°	898.5	897.6	896.7	895.4	893.6	891.8	890.1	888.3	890.1	891.8	893.6
132.5°	934.9	934.2	933.4	932.2	930.4	928.7	926.9	925.1	926.9	928.7	930.4
135°	989.5	988.7	987.7	986.6	985.3	984.0	982.7	981.3	982.7	984.0	985.3
137.5°	1038.2	1037.7	1037.2	1036.1	1034.4	1032.7	1031.0	1029.3	1031.0	1032.7	1034.4
140°	1069.0	1068.3	1067.6	1066.7	1065.3	1064.0	1062.6	1061.4	1062.6	1064.0	1065.3
142.5°	1098.6	1097.9	1097.3	1096.3	1094.9	1093.6	1092.3	1091.0	1092.3	1093.6	1094.9
145°	1140.5	1140.1	1139.6	1138.6	1137.0	1135.5	1133.9	1132.4	1133.9	1135.5	1137.0
147.5°	1177.1	1176.6	1176.2	1175.4	1174.4	1173.5	1172.4	1171.4	1172.4	1173.5	1174.4
150°	1199.5	1199.0	1198.6	1198.1	1197.4	1196.7	1196.0	1195.4	1196.0	1196.7	1197.4
152.5°	1219.1	1218.7	1218.5	1218.2	1217.9	1217.6	1217.3	1217.0	1217.3	1217.6	1217.9
155°	1246.0	1245.7	1245.5	1245.6	1246.0	1246.5	1247.0	1247.4	1247.0	1246.5	1246.0
157.5°	1270.2	1270.5	1270.7	1270.8	1270.8	1270.9	1270.9	1271.0	1270.9	1270.9	1270.8
160°	1283.8	1284.1	1284.3	1284.5	1284.8	1285.0	1285.2	1285.4	1285.2	1285.0	1284.8
162.5°	1295.9	1296.1	1296.3	1296.7	1297.3	1297.9	1298.5	1299.0	1298.5	1297.9	1297.3
165°	1311.8	1312.1	1312.3	1312.8	1313.5	1314.1	1314.7	1315.4	1314.7	1314.1	1313.5
167.5°	1324.2	1324.2	1324.2	1324.6	1325.6	1326.5	1327.3	1328.3	1327.3	1326.5	1325.6
170°	1331.5	1331.5	1331.5	1331.9	1332.7	1333.7	1334.6	1335.4	1334.6	1333.7	1332.7
172.5°	1335.8	1335.7	1335.5	1335.9	1337.0	1338.1	1339.2	1340.2	1339.2	1338.1	1337.0
175°	1342.0	1341.8	1341.5	1342.0	1343.1	1344.2	1345.3	1346.4	1345.3	1344.2	1343.1
177.5°	1344.5	1344.3	1344.1	1344.5	1345.4	1346.3	1347.1	1348.1	1347.1	1346.3	1345.4
180°	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6
2.5°	669.3	667.4	664.8	660.8	657.6	652.6	652.6	653.4	653.4	653.2	652.6
5°	648.9	644.0	638.1	631.2	623.9	616.6	615.4	612.7	610.7	609.4	607.8
7.5°	627.5	618.8	610.1	600.5	591.6	584.3	579.2	575.0	572.2	569.4	567.2
10°	613.0	602.1	591.9	581.7	570.5	561.5	555.9	552.0	549.1	546.4	545.1
12.5°	595.9	583.4	572.1	562.4	550.2	541.0	535.6	533.8	530.3	524.8	521.9
15°	570.8	559.3	545.8	530.9	525.0	513.8	507.5	504.5	502.6	498.3	497.0
17.5°	549.4	534.3	519.1	508.0	497.0	487.9	484.4	480.7	478.1	474.6	473.6
20°	532.3	518.8	504.9	493.0	481.5	471.6	468.6	466.0	463.3	461.7	460.4
22.5°	514.8	501.3	489.8	478.7	466.4	459.9	456.7	453.8	451.9	450.8	449.5
25°	490.3	478.5	465.6	455.7	445.8	441.5	439.5	437.9	436.6	435.0	434.6
27.5°	468.5	455.6	445.1	435.8	428.8	425.2	423.3	422.5	422.8	423.4	423.7
30°	452.1	440.2	431.6	423.7	417.2	413.9	413.5	413.5	414.8	415.2	415.9
32.5°	437.0	427.3	418.7	411.0	406.0	403.8	405.1	405.1	406.1	407.0	408.2
35°	415.2	406.6	400.0	393.4	389.1	390.1	390.7	391.4	393.0	395.0	396.4
37.5°	394.3	386.8	380.0	374.8	372.8	374.6	376.2	377.5	379.5	381.0	382.3
40°	379.2	373.6	367.0	362.4	363.1	364.0	365.4	367.0	368.7	369.6	371.0
42.5°	365.2	359.4	354.4	350.5	351.5	352.8	353.5	354.4	356.3	358.1	358.9
45°	344.0	339.3	334.7	332.4	333.0	333.7	334.4	335.4	337.0	338.4	338.6
47.5°	320.0	316.8	313.7	311.4	312.5	312.2	313.1	315.2	315.7	316.5	318.3
50°	304.7	301.7	298.1	297.5	297.5	297.5	297.7	300.4	300.4	301.7	303.1
52.5°	287.8	285.9	283.6	282.4	281.9	281.9	283.3	284.6	285.1	287.0	288.3
55°	262.8	260.8	258.9	257.9	257.2	257.9	260.5	261.1	262.8	263.8	264.8
57.5°	236.8	235.2	233.7	233.2	233.0	233.8	235.3	237.3	237.7	240.7	242.2
60°	219.6	217.3	216.0	216.0	215.3	218.3	217.7	220.9	221.6	223.6	225.9
62.5°	201.9	198.8	198.3	198.3	199.2	200.1	201.0	202.5	204.2	206.7	208.4
65°	173.5	171.8	174.1	173.7	173.1	175.1	175.1	176.8	178.7	181.1	184.7
67.5°	146.5	145.6	145.9	145.9	146.8	147.9	148.9	150.3	152.7	155.2	157.5
70°	128.3	129.2	127.6	129.0	129.9	130.3	130.9	132.9	135.5	137.2	139.8
72.5°	110.6	110.6	110.7	111.2	112.3	112.9	113.5	115.7	118.6	120.0	122.2
75°	85.1	84.7	85.8	85.8	87.4	88.1	88.7	89.7	92.3	94.3	96.0
77.5°	62.2	62.5	62.3	63.5	63.0	63.1	65.2	66.1	66.4	70.3	71.2
80°	46.8	47.5	47.8	48.1	48.5	47.8	50.1	51.1	51.1	53.4	55.1
82.5°	33.7	34.0	34.9	35.2	35.3	35.9	36.2	36.9	37.6	38.7	40.8
85°	16.8	17.8	18.2	17.8	18.2	17.5	18.4	18.8	19.1	19.1	19.1
87.5°	7.2	8.0	8.4	9.2	9.5	10.3	10.5	10.2	10.3	11.3	10.4
90°	9.9	12.5	15.3	18.3	21.1	24.0	24.9	25.7	26.7	27.6	28.2
92.5°	16.1	16.9	19.1	21.3	23.4	25.6	27.0	28.4	29.9	31.3	32.1
95°	24.5	21.3	23.7	26.1	28.6	31.0	32.5	34.1	35.6	37.2	38.0
97.5°	106.2	96.3	80.2	64.2	48.2	32.2	34.0	35.7	37.5	39.3	40.3
100°	186.8	171.7	137.1	102.4	67.7	33.0	34.8	36.6	38.3	40.1	41.2
102.5°	234.7	217.3	179.4	141.5	103.7	65.8	60.3	54.8	49.2	43.7	41.2
105°	307.9	299.1	279.1	259.1	239.1	219.0	179.7	140.3	101.0	61.6	42.3
107.5°	386.3	388.9	392.1	395.2	398.4	401.6	372.6	343.8	315.0	286.1	256.8
110°	439.3	441.3	443.8	446.3	448.7	451.2	443.8	436.4	429.1	421.8	402.3



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	489.7	491.8	494.2	496.7	499.1	501.5	501.7	501.8	502.0	502.1	498.8
115°	564.5	566.2	568.2	570.2	572.2	574.2	576.4	578.6	580.8	583.1	584.6
117.5°	639.2	640.5	641.5	642.6	643.6	644.6	646.4	648.2	650.0	651.7	652.7
120°	686.2	687.6	688.2	688.9	689.6	690.2	692.0	693.8	695.5	697.3	698.2
122.5°	731.2	732.5	733.3	734.2	734.9	735.8	737.1	738.3	739.6	740.8	741.5
125°	795.4	796.7	797.5	798.5	799.4	800.2	800.7	801.2	801.6	802.0	802.5
127.5°	857.0	858.4	859.5	860.6	861.6	862.6	863.4	864.1	864.8	865.5	865.6
130°	895.4	896.7	897.6	898.5	899.4	900.3	901.2	902.1	902.9	903.9	904.0
132.5°	932.2	933.4	934.2	934.9	935.6	936.3	937.2	938.1	939.0	939.9	940.0
135°	986.6	987.7	988.7	989.5	990.4	991.4	992.0	992.6	993.3	994.0	994.0
137.5°	1036.1	1037.2	1037.7	1038.2	1038.6	1039.1	1040.2	1041.3	1042.3	1043.4	1043.7
140°	1066.7	1067.6	1068.3	1069.0	1069.7	1070.3	1071.3	1072.1	1073.0	1073.9	1074.1
142.5°	1096.3	1097.3	1097.9	1098.6	1099.3	1099.9	1100.7	1101.4	1102.1	1102.8	1102.9
145°	1138.6	1139.6	1140.1	1140.5	1140.9	1141.3	1141.8	1142.3	1142.7	1143.1	1143.3
147.5°	1175.4	1176.2	1176.6	1177.1	1177.5	1177.9	1178.5	1178.9	1179.3	1179.7	1179.5
150°	1198.1	1198.6	1199.0	1199.5	1200.0	1200.4	1200.8	1201.3	1201.7	1202.1	1202.0
152.5°	1218.2	1218.5	1218.7	1219.1	1219.3	1219.6	1220.4	1221.2	1222.0	1222.8	1222.7
155°	1245.6	1245.5	1245.7	1246.0	1246.2	1246.4	1247.5	1248.6	1249.7	1250.9	1250.7
157.5°	1270.8	1270.7	1270.5	1270.2	1270.1	1269.8	1271.2	1272.5	1273.8	1275.1	1275.0
160°	1284.5	1284.3	1284.1	1283.8	1283.7	1283.4	1284.8	1286.1	1287.4	1288.7	1288.7
162.5°	1296.7	1296.3	1296.1	1295.9	1295.6	1295.4	1296.9	1298.5	1299.9	1301.5	1301.5
165°	1312.8	1312.3	1312.1	1311.8	1311.6	1311.4	1313.2	1315.0	1316.7	1318.5	1318.6
167.5°	1324.6	1324.2	1324.2	1324.2	1324.2	1324.2	1326.0	1327.7	1329.6	1331.4	1331.4
170°	1331.9	1331.5	1331.5	1331.5	1331.5	1331.5	1333.2	1335.0	1336.8	1338.5	1338.5
172.5°	1335.9	1335.5	1335.7	1335.8	1336.0	1336.2	1338.0	1339.8	1341.5	1343.3	1343.2
175°	1342.0	1341.5	1341.8	1342.0	1342.2	1342.4	1344.0	1345.6	1347.1	1348.7	1348.5
177.5°	1344.5	1344.1	1344.3	1344.5	1344.6	1344.8	1346.3	1347.6	1349.1	1350.5	1350.3
180°	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6
2.5°	650.8	650.6	652.4	651.1	652.4	650.6	650.8	652.6	653.2	653.4	653.4
5°	605.8	606.7	603.5	603.5	603.5	606.7	605.8	607.8	609.4	610.7	612.7
7.5°	565.7	564.2	564.4	562.6	564.4	564.2	565.7	567.2	569.4	572.2	575.0
10°	541.1	539.2	538.5	538.8	538.5	539.2	541.1	545.1	546.4	549.1	552.0
12.5°	520.8	520.4	516.1	516.2	516.1	520.4	520.8	521.9	524.8	530.3	533.8
15°	497.0	490.7	490.0	492.0	490.0	490.7	497.0	497.0	498.3	502.6	504.5
17.5°	473.0	469.7	469.9	468.9	469.9	469.7	473.0	473.6	474.6	478.1	480.7
20°	460.4	458.4	458.1	455.7	458.1	458.4	460.4	460.4	461.7	463.3	466.0
22.5°	448.8	448.1	448.2	445.7	448.2	448.1	448.8	449.5	450.8	451.9	453.8
25°	434.3	435.9	434.6	434.6	434.6	435.9	434.3	434.6	435.0	436.6	437.9
27.5°	424.6	424.5	423.8	423.8	423.8	424.5	424.6	423.7	423.4	422.8	422.5
30°	417.2	416.8	417.5	417.5	417.5	416.8	417.2	415.9	415.2	414.8	413.5
32.5°	409.7	410.2	410.4	410.6	410.4	410.2	409.7	408.2	407.0	406.1	405.1
35°	398.4	398.6	399.7	399.0	399.7	398.6	398.4	396.4	395.0	393.0	391.4
37.5°	382.9	384.4	384.1	384.6	384.1	384.4	382.9	382.3	381.0	379.5	377.5
40°	371.3	372.3	372.0	372.0	372.0	372.3	371.3	371.0	369.6	368.7	367.0
42.5°	359.5	360.2	359.3	358.8	359.3	360.2	359.5	358.9	358.1	356.3	354.4
45°	340.0	339.3	340.4	339.0	340.4	339.3	340.0	338.6	338.4	337.0	335.4
47.5°	318.2	318.9	319.2	320.1	319.2	318.9	318.2	318.3	316.5	315.7	315.2
50°	303.7	305.7	305.7	305.4	305.7	305.7	303.7	303.1	301.7	300.4	300.4
52.5°	289.5	290.4	291.7	291.6	291.7	290.4	289.5	288.3	287.0	285.1	284.6
55°	267.4	268.1	268.7	269.1	268.7	268.1	267.4	264.8	263.8	262.8	261.1
57.5°	244.6	244.4	245.9	246.4	245.9	244.4	244.6	242.2	240.7	237.7	237.3
60°	228.5	228.5	231.2	232.1	231.2	228.5	228.5	225.9	223.6	221.6	220.9
62.5°	211.4	212.4	215.1	213.7	215.1	212.4	211.4	208.4	206.7	204.2	202.5
65°	186.3	189.0	188.6	189.9	188.6	189.0	186.3	184.7	181.1	178.7	176.8
67.5°	160.1	161.8	164.2	164.4	164.2	161.8	160.1	157.5	155.2	152.7	150.3
70°	142.5	144.1	145.4	146.4	145.4	144.1	142.5	139.8	137.2	135.5	132.9
72.5°	125.3	126.1	129.3	127.9	129.3	126.1	125.3	122.2	120.0	118.6	115.7
75°	98.2	100.6	102.5	101.6	102.5	100.6	98.2	96.0	94.3	92.3	89.7
77.5°	72.7	75.0	75.9	75.1	75.9	75.0	72.7	71.2	70.3	66.4	66.1
80°	57.3	57.1	59.1	58.7	59.1	57.1	57.3	55.1	53.4	51.1	51.1
82.5°	42.1	41.8	42.7	42.9	42.7	41.8	42.1	40.8	38.7	37.6	36.9
85°	20.4	21.4	20.1	19.8	20.1	21.4	20.4	19.1	19.1	19.1	18.8
87.5°	10.5	10.6	10.4	10.2	10.4	10.6	10.5	10.4	11.3	10.3	10.2
90°	28.7	29.1	29.5	30.0	29.5	29.1	28.7	28.2	27.6	26.7	25.7
92.5°	32.4	32.7	33.0	33.2	33.0	32.7	32.4	32.1	31.3	29.9	28.4
95°	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	37.2	35.6	34.1
97.5°	40.6	40.8	41.0	41.2	41.0	40.8	40.6	40.3	39.3	37.5	35.7
100°	41.3	41.6	41.8	42.0	41.8	41.6	41.3	41.2	40.1	38.3	36.6
102.5°	41.6	42.0	42.4	42.8	42.4	42.0	41.6	41.2	43.7	49.2	54.8
105°	42.7	43.1	43.6	44.0	43.6	43.1	42.7	42.3	61.6	101.0	140.3
107.5°	227.2	197.5	167.9	138.3	167.9	197.5	227.2	256.8	286.1	315.0	343.8
110°	370.5	338.6	306.9	275.1	306.9	338.6	370.5	402.3	421.8	429.1	436.4



TEST NUMBER: P331946-935

CATALOG NUMBER: S123DIP-S560D1195U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	492.1	485.3	478.6	471.9	478.6	485.3	492.1	498.8	502.1	502.0	501.8
115°	585.5	586.4	587.3	588.1	587.3	586.4	585.5	584.6	583.1	580.8	578.6
117.5°	652.9	653.1	653.2	653.4	653.2	653.1	652.9	652.7	651.7	650.0	648.2
120°	698.2	698.2	698.2	698.2	698.2	698.2	698.2	698.2	697.3	695.5	693.8
122.5°	741.7	741.8	742.1	742.3	742.1	741.8	741.7	741.5	740.8	739.6	738.3
125°	802.9	803.4	803.8	804.3	803.8	803.4	802.9	802.5	802.0	801.6	801.2
127.5°	865.2	864.8	864.4	863.8	864.4	864.8	865.2	865.6	865.5	864.8	864.1
130°	903.6	903.2	902.8	902.3	902.8	903.2	903.6	904.0	903.9	902.9	902.1
132.5°	939.4	938.7	938.1	937.5	938.1	938.7	939.4	940.0	939.9	939.0	938.1
135°	993.3	992.6	992.0	991.4	992.0	992.6	993.3	994.0	994.0	993.3	992.6
137.5°	1043.3	1042.8	1042.4	1041.9	1042.4	1042.8	1043.3	1043.7	1043.4	1042.3	1041.3
140°	1073.7	1073.2	1072.8	1072.4	1072.8	1073.2	1073.7	1074.1	1073.9	1073.0	1072.1
142.5°	1102.3	1101.6	1101.0	1100.4	1101.0	1101.6	1102.3	1102.9	1102.8	1102.1	1101.4
145°	1143.3	1143.3	1143.3	1143.3	1143.3	1143.3	1143.3	1143.3	1143.1	1142.7	1142.3
147.5°	1178.5	1177.4	1176.4	1175.4	1176.4	1177.4	1178.5	1179.5	1179.7	1179.3	1178.9
150°	1201.4	1200.8	1200.1	1199.4	1200.1	1200.8	1201.4	1202.0	1202.1	1201.7	1201.3
152.5°	1221.7	1220.6	1219.6	1218.6	1219.6	1220.6	1221.7	1222.7	1222.8	1222.0	1221.2
155°	1249.4	1248.1	1246.7	1245.4	1246.7	1248.1	1249.4	1250.7	1250.9	1249.7	1248.6
157.5°	1273.2	1271.4	1269.7	1268.0	1269.7	1271.4	1273.2	1275.0	1275.1	1273.8	1272.5
160°	1287.1	1285.6	1283.9	1282.4	1283.9	1285.6	1287.1	1288.7	1288.7	1287.4	1286.1
162.5°	1300.1	1298.7	1297.4	1296.0	1297.4	1298.7	1300.1	1301.5	1301.5	1299.9	1298.5
165°	1317.1	1315.5	1314.0	1312.4	1314.0	1315.5	1317.1	1318.6	1318.5	1316.7	1315.0
167.5°	1329.6	1327.7	1326.0	1324.2	1326.0	1327.7	1329.6	1331.4	1331.4	1329.6	1327.7
170°	1336.8	1335.0	1333.2	1331.5	1333.2	1335.0	1336.8	1338.5	1338.5	1336.8	1335.0
172.5°	1341.3	1339.4	1337.4	1335.4	1337.4	1339.4	1341.3	1343.2	1343.3	1341.5	1339.8
175°	1346.8	1345.0	1343.2	1341.4	1343.2	1345.0	1346.8	1348.5	1348.7	1347.1	1345.6
177.5°	1348.6	1346.8	1345.0	1343.2	1345.0	1346.8	1348.6	1350.3	1350.5	1349.1	1347.6
180°	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6
2.5°	652.6	652.6	657.6	660.8	664.8	667.4	669.3	671.1	674.2	678.6	683.3
5°	615.4	616.6	623.9	631.2	638.1	644.0	648.9	654.9	662.2	671.1	681.0
7.5°	579.2	584.3	591.6	600.5	610.1	618.8	627.5	637.3	647.5	660.6	674.5
10°	555.9	561.5	570.5	581.7	591.9	602.1	613.0	623.5	636.5	651.9	669.8
12.5°	535.6	541.0	550.2	562.4	572.1	583.4	595.9	609.6	624.1	642.7	662.9
15°	507.5	513.8	525.0	530.9	545.8	559.3	570.8	590.6	609.1	628.2	651.6
17.5°	484.4	487.9	497.0	508.0	519.1	534.3	549.4	565.8	584.3	607.7	637.0
20°	468.6	471.6	481.5	493.0	504.9	518.8	532.3	548.7	569.5	594.3	625.9
22.5°	456.7	459.9	466.4	478.7	489.8	501.3	514.8	534.5	556.6	580.7	615.1
25°	439.5	441.5	445.8	455.7	465.6	478.5	490.3	508.9	531.6	559.9	594.3
27.5°	423.3	425.2	428.8	435.8	445.1	455.6	468.5	484.1	507.2	538.0	574.5
30°	413.5	413.9	417.2	423.7	431.6	440.2	452.1	469.9	491.6	523.0	561.3
32.5°	405.1	403.8	406.0	411.0	418.7	427.3	437.0	454.6	475.6	506.4	545.7
35°	390.7	390.1	389.1	393.4	400.0	406.6	415.2	428.3	452.1	480.8	522.0
37.5°	376.2	374.6	372.8	374.8	380.0	386.8	394.3	406.0	426.5	458.1	497.5
40°	365.4	364.0	363.1	362.4	367.0	373.6	379.2	390.5	409.6	439.5	478.5
42.5°	353.5	352.8	351.5	350.5	354.4	359.4	365.2	375.1	394.3	422.4	459.3
45°	334.4	333.7	333.0	332.4	334.7	339.3	344.0	351.2	367.6	395.0	428.3
47.5°	313.1	312.2	312.5	311.4	313.7	316.8	320.0	327.8	343.6	365.7	390.0
50°	297.7	297.5	297.5	297.5	298.1	301.7	304.7	310.6	325.1	347.2	364.7
52.5°	283.3	281.9	281.9	282.4	283.6	285.9	287.8	294.3	306.9	325.1	341.0
55°	260.5	257.9	257.2	257.9	258.9	260.8	262.8	268.1	279.0	292.5	301.7
57.5°	235.3	233.8	233.0	233.2	233.7	235.2	236.8	242.5	251.1	258.1	264.1
60°	217.7	218.3	215.3	216.0	216.0	217.3	219.6	223.3	230.5	235.5	241.4
62.5°	201.0	200.1	199.2	198.3	198.3	198.8	201.9	204.7	210.9	213.5	218.2
65°	175.1	175.1	173.1	173.7	174.1	171.8	173.5	176.8	180.7	181.7	186.0
67.5°	148.9	147.9	146.8	145.9	145.9	145.6	146.5	148.1	151.1	151.4	154.7
70°	130.9	130.3	129.9	129.0	127.6	129.2	128.3	129.9	131.6	131.9	133.9
72.5°	113.5	112.9	112.3	111.2	110.7	110.6	110.6	112.5	113.7	113.1	115.4
75°	88.7	88.1	87.4	85.8	85.8	84.7	85.1	86.4	87.7	86.7	88.7
77.5°	65.2	63.1	63.0	63.5	62.3	62.5	62.2	61.9	62.5	62.6	64.4
80°	50.1	47.8	48.5	48.1	47.8	47.5	46.8	47.2	47.5	47.8	48.8
82.5°	36.2	35.9	35.3	35.2	34.9	34.0	33.7	34.3	34.5	34.4	35.1
85°	18.4	17.5	18.2	17.8	18.2	17.8	16.8	16.8	17.5	17.1	17.8
87.5°	10.5	10.3	9.5	9.2	8.4	8.0	7.2	7.1	6.9	6.5	6.5
90°	24.9	24.0	21.1	18.3	15.3	12.5	9.9	7.7	5.4	3.2	1.0
92.5°	27.0	25.6	23.4	21.3	19.1	16.9	16.1	16.7	17.4	18.0	18.6
95°	32.5	31.0	28.6	26.1	23.7	21.3	24.5	33.7	42.8	51.9	61.0
97.5°	34.0	32.2	48.2	64.2	80.2	96.3	106.2	110.4	114.4	118.6	122.6
100°	34.8	33.0	67.7	102.4	137.1	171.7	186.8	182.4	178.0	173.5	169.0
102.5°	60.3	65.8	103.7	141.5	179.4	217.3	234.7	231.4	228.3	225.1	221.9
105°	179.7	219.0	239.1	259.1	279.1	299.1	307.9	305.4	303.0	300.6	298.1
107.5°	372.6	401.6	398.4	395.2	392.1	388.9	386.3	384.4	382.5	380.5	378.5
110°	443.8	451.2	448.7	446.3	443.8	441.3	439.3	437.5	435.7	433.9	432.1



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	501.7	501.5	499.1	496.7	494.2	491.8	489.7	488.2	486.6	484.9	483.4
115°	576.4	574.2	572.2	570.2	568.2	566.2	564.5	563.2	561.8	560.5	559.2
117.5°	646.4	644.6	643.6	642.6	641.5	640.5	639.2	637.6	635.8	634.2	632.6
120°	692.0	690.2	689.6	688.9	688.2	687.6	686.2	684.2	682.3	680.2	678.2
122.5°	737.1	735.8	734.9	734.2	733.3	732.5	731.2	729.5	727.9	726.3	724.6
125°	800.7	800.2	799.4	798.5	797.5	796.7	795.4	793.6	791.8	790.1	788.2
127.5°	863.4	862.6	861.6	860.6	859.5	858.4	857.0	855.2	853.4	851.6	849.9
130°	901.2	900.3	899.4	898.5	897.6	896.7	895.4	893.6	891.8	890.1	888.3
132.5°	937.2	936.3	935.6	934.9	934.2	933.4	932.2	930.4	928.7	926.9	925.1
135°	992.0	991.4	990.4	989.5	988.7	987.7	986.6	985.3	984.0	982.7	981.3
137.5°	1040.2	1039.1	1038.6	1038.2	1037.7	1037.2	1036.1	1034.4	1032.7	1031.0	1029.3
140°	1071.3	1070.3	1069.7	1069.0	1068.3	1067.6	1066.7	1065.3	1064.0	1062.6	1061.4
142.5°	1100.7	1099.9	1099.3	1098.6	1097.9	1097.3	1096.3	1094.9	1093.6	1092.3	1091.0
145°	1141.8	1141.3	1140.9	1140.5	1140.1	1139.6	1138.6	1137.0	1135.5	1133.9	1132.4
147.5°	1178.5	1177.9	1177.5	1177.1	1176.6	1176.2	1175.4	1174.4	1173.5	1172.4	1171.4
150°	1200.8	1200.4	1200.0	1199.5	1199.0	1198.6	1198.1	1197.4	1196.7	1196.0	1195.4
152.5°	1220.4	1219.6	1219.3	1219.1	1218.7	1218.5	1218.2	1217.9	1217.6	1217.3	1217.0
155°	1247.5	1246.4	1246.2	1246.0	1245.7	1245.5	1245.6	1246.0	1246.5	1247.0	1247.4
157.5°	1271.2	1269.8	1270.1	1270.2	1270.5	1270.7	1270.8	1270.8	1270.9	1270.9	1271.0
160°	1284.8	1283.4	1283.7	1283.8	1284.1	1284.3	1284.5	1284.8	1285.0	1285.2	1285.4
162.5°	1296.9	1295.4	1295.6	1295.9	1296.1	1296.3	1296.7	1297.3	1297.9	1298.5	1299.0
165°	1313.2	1311.4	1311.6	1311.8	1312.1	1312.3	1312.8	1313.5	1314.1	1314.7	1315.4
167.5°	1326.0	1324.2	1324.2	1324.2	1324.2	1324.2	1324.6	1325.6	1326.5	1327.3	1328.3
170°	1333.2	1331.5	1331.5	1331.5	1331.5	1331.5	1331.9	1332.7	1333.7	1334.6	1335.4
172.5°	1338.0	1336.2	1336.0	1335.8	1335.7	1335.5	1335.9	1337.0	1338.1	1339.2	1340.2
175°	1344.0	1342.4	1342.2	1342.0	1341.8	1341.5	1342.0	1343.1	1344.2	1345.3	1346.4
177.5°	1346.3	1344.8	1344.6	1344.5	1344.3	1344.1	1344.5	1345.4	1346.3	1347.1	1348.1
180°	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6
2.5°	684.8	686.1	690.6	693.8	697.5	699.6	701.7	703.4	705.4	705.9	713.6
5°	687.9	694.5	706.0	714.5	725.1	736.7	744.6	748.2	757.8	765.7	781.5
7.5°	687.0	701.0	718.5	736.6	756.0	773.9	789.5	807.9	821.0	840.8	860.2
10°	686.2	705.0	727.5	750.5	777.6	802.6	825.1	850.2	870.9	898.3	921.7
12.5°	683.9	706.6	737.7	765.0	797.9	832.4	865.6	897.9	916.3	961.8	983.4
15°	678.0	705.0	743.9	785.5	830.7	871.6	913.8	947.4	1001.8	1041.7	1067.1
17.5°	666.8	704.6	750.8	800.9	855.8	909.7	957.5	1008.6	1066.3	1114.6	1166.1
20°	661.5	703.0	754.5	809.9	866.9	927.9	982.3	1043.7	1106.6	1154.2	1220.1
22.5°	651.8	698.8	754.2	816.0	876.9	940.0	1003.8	1065.6	1138.3	1203.8	1266.5
25°	635.8	688.5	745.9	814.9	886.4	949.7	1025.9	1108.0	1183.9	1267.9	1330.6
27.5°	619.1	675.4	732.9	796.9	873.9	949.1	1044.9	1137.6	1230.4	1303.0	1349.4
30°	606.1	660.8	720.2	784.8	861.0	950.4	1057.6	1158.7	1249.1	1311.5	1337.5
32.5°	592.1	647.6	700.2	767.9	849.1	949.6	1065.5	1171.1	1250.2	1291.7	1286.6
35°	570.2	616.6	667.8	733.1	828.7	943.7	1070.1	1172.3	1220.7	1211.9	1144.6
37.5°	538.5	577.6	627.9	699.4	804.9	931.6	1060.8	1137.6	1134.4	1061.9	964.4
40°	518.8	552.0	600.5	675.7	786.4	923.7	1046.3	1096.1	1054.0	952.7	835.9
42.5°	492.8	523.5	572.0	649.3	766.2	907.6	1018.6	1033.0	950.5	834.0	727.0
45°	452.8	479.8	529.9	609.8	735.7	872.5	951.1	915.8	804.6	684.2	602.8
47.5°	409.7	437.8	486.0	568.0	691.6	819.8	857.2	782.2	668.0	570.5	495.7
50°	382.5	409.6	456.7	539.5	661.9	776.6	792.1	695.2	590.3	504.5	443.2
52.5°	355.1	380.6	426.9	510.0	627.0	726.4	716.9	618.1	521.7	448.6	400.5
55°	314.3	338.4	382.5	460.4	566.9	645.7	611.1	516.8	437.0	380.2	343.6
57.5°	277.8	300.8	338.9	409.2	501.8	555.9	512.0	432.5	369.0	325.4	298.1
60°	253.0	273.4	309.6	375.0	455.4	496.6	453.1	382.9	329.4	294.5	270.1
62.5°	229.5	247.3	280.9	340.1	410.0	444.6	400.6	341.1	295.7	264.7	243.9
65°	193.9	210.1	239.7	285.9	343.3	366.4	328.5	280.3	245.0	222.0	208.1
67.5°	161.4	175.1	200.8	237.1	279.4	296.2	267.3	230.1	203.5	184.9	173.9
70°	139.8	151.7	171.8	203.1	241.4	254.3	227.2	196.6	177.1	162.2	152.1
72.5°	121.6	130.4	148.6	172.8	204.7	214.9	196.0	169.1	150.9	139.8	131.7
75°	92.6	99.9	111.8	131.2	153.3	159.3	145.1	128.3	116.1	108.1	101.9
77.5°	66.8	72.2	80.8	92.7	108.1	113.4	104.4	93.2	84.3	79.0	75.4
80°	50.5	54.8	62.0	71.9	81.1	84.1	78.8	70.3	64.0	61.0	58.0
82.5°	37.3	39.7	44.1	50.8	57.1	60.6	56.1	51.0	47.6	44.9	43.8
85°	18.8	20.1	22.1	24.7	28.7	30.0	28.3	27.0	25.1	23.4	23.4
87.5°	7.5	7.9	9.2	10.2	11.7	13.1	13.4	13.4	13.8	13.7	13.6
90°	3.2	5.4	7.7	9.9	12.5	15.3	18.3	21.1	24.0	24.9	25.7
92.5°	18.0	17.4	16.7	16.1	16.9	19.1	21.3	23.4	25.6	27.0	28.4
95°	51.9	42.8	33.7	24.5	21.3	23.7	26.1	28.6	31.0	32.5	34.1
97.5°	118.6	114.4	110.4	106.2	96.3	80.2	64.2	48.2	32.2	34.0	35.7
100°	173.5	178.0	182.4	186.8	171.7	137.1	102.4	67.7	33.0	34.8	36.6
102.5°	225.1	228.3	231.4	234.7	217.3	179.4	141.5	103.7	65.8	60.3	54.8
105°	300.6	303.0	305.4	307.9	299.1	279.1	259.1	239.1	219.0	179.7	140.3
107.5°	380.5	382.5	384.4	386.3	388.9	392.1	395.2	398.4	401.6	372.6	343.8
110°	433.9	435.7	437.5	439.3	441.3	443.8	446.3	448.7	451.2	443.8	436.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	484.9	486.6	488.2	489.7	491.8	494.2	496.7	499.1	501.5	501.7	501.8
115°	560.5	561.8	563.2	564.5	566.2	568.2	570.2	572.2	574.2	576.4	578.6
117.5°	634.2	635.8	637.6	639.2	640.5	641.5	642.6	643.6	644.6	646.4	648.2
120°	680.2	682.3	684.2	686.2	687.6	688.2	688.9	689.6	690.2	692.0	693.8
122.5°	726.3	727.9	729.5	731.2	732.5	733.3	734.2	734.9	735.8	737.1	738.3
125°	790.1	791.8	793.6	795.4	796.7	797.5	798.5	799.4	800.2	800.7	801.2
127.5°	851.6	853.4	855.2	857.0	858.4	859.5	860.6	861.6	862.6	863.4	864.1
130°	890.1	891.8	893.6	895.4	896.7	897.6	898.5	899.4	900.3	901.2	902.1
132.5°	926.9	928.7	930.4	932.2	933.4	934.2	934.9	935.6	936.3	937.2	938.1
135°	982.7	984.0	985.3	986.6	987.7	988.7	989.5	990.4	991.4	992.0	992.6
137.5°	1031.0	1032.7	1034.4	1036.1	1037.2	1037.7	1038.2	1038.6	1039.1	1040.2	1041.3
140°	1062.6	1064.0	1065.3	1066.7	1067.6	1068.3	1069.0	1069.7	1070.3	1071.3	1072.1
142.5°	1092.3	1093.6	1094.9	1096.3	1097.3	1097.9	1098.6	1099.3	1099.9	1100.7	1101.4
145°	1133.9	1135.5	1137.0	1138.6	1139.6	1140.1	1140.5	1140.9	1141.3	1141.8	1142.3
147.5°	1172.4	1173.5	1174.4	1175.4	1176.2	1176.6	1177.1	1177.5	1177.9	1178.5	1178.9
150°	1196.0	1196.7	1197.4	1198.1	1198.6	1199.0	1199.5	1200.0	1200.4	1200.8	1201.3
152.5°	1217.3	1217.6	1217.9	1218.2	1218.5	1218.7	1219.1	1219.3	1219.6	1220.4	1221.2
155°	1247.0	1246.5	1246.0	1245.6	1245.5	1245.7	1246.0	1246.2	1246.4	1247.5	1248.6
157.5°	1270.9	1270.9	1270.8	1270.8	1270.7	1270.5	1270.2	1270.1	1269.8	1271.2	1272.5
160°	1285.2	1285.0	1284.8	1284.5	1284.3	1284.1	1283.8	1283.7	1283.4	1284.8	1286.1
162.5°	1298.5	1297.9	1297.3	1296.7	1296.3	1296.1	1295.9	1295.6	1295.4	1296.9	1298.5
165°	1314.7	1314.1	1313.5	1312.8	1312.3	1312.1	1311.8	1311.6	1311.4	1313.2	1315.0
167.5°	1327.3	1326.5	1325.6	1324.6	1324.2	1324.2	1324.2	1324.2	1324.2	1326.0	1327.7
170°	1334.6	1333.7	1332.7	1331.9	1331.5	1331.5	1331.5	1331.5	1331.5	1333.2	1335.0
172.5°	1339.2	1338.1	1337.0	1335.9	1335.5	1335.7	1335.8	1336.0	1336.2	1338.0	1339.8
175°	1345.3	1344.2	1343.1	1342.0	1341.5	1341.8	1342.0	1342.2	1342.4	1344.0	1345.6
177.5°	1347.1	1346.3	1345.4	1344.5	1344.1	1344.3	1344.5	1344.6	1344.8	1346.3	1347.6
180°	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	680.6	680.6	680.6	680.6	680.6	680.6	680.6
2.5°	716.3	716.5	719.4	721.5	720.5	721.8	722.3
5°	782.5	794.4	800.6	805.3	805.6	805.9	808.6
7.5°	876.5	889.2	898.5	912.7	916.9	921.7	920.3
10°	945.1	963.9	980.1	988.6	997.8	1011.3	1000.5
12.5°	1009.2	1042.5	1067.1	1080.4	1089.2	1091.8	1086.5
15°	1114.9	1158.5	1181.9	1181.2	1210.9	1223.7	1203.6
17.5°	1211.9	1252.1	1284.2	1300.7	1325.4	1330.9	1328.4
20°	1271.2	1315.1	1340.1	1368.5	1381.4	1392.9	1394.9
22.5°	1322.4	1361.8	1388.7	1412.3	1423.1	1428.5	1431.8
25°	1375.1	1406.1	1422.3	1430.5	1433.5	1432.8	1428.5
27.5°	1371.5	1373.8	1356.1	1338.6	1322.9	1305.3	1299.2
30°	1335.8	1308.1	1258.7	1230.6	1189.5	1156.8	1170.0
32.5°	1242.2	1187.1	1131.5	1070.2	1019.5	1005.1	990.6
35°	1060.1	963.2	906.5	840.6	814.2	787.8	769.6
37.5°	857.7	782.7	715.4	672.3	645.8	629.2	620.2
40°	741.7	674.0	618.6	583.7	563.5	544.8	542.1
42.5°	649.0	586.2	544.5	516.7	497.3	489.4	483.5
45°	531.6	487.7	459.7	439.9	427.1	422.1	415.5
47.5°	450.0	419.0	397.9	384.4	374.7	371.0	370.5
50°	404.3	378.6	363.1	352.5	344.9	343.6	338.4
52.5°	370.0	347.7	335.6	326.4	320.9	317.2	315.6
55°	321.2	306.3	295.5	290.2	285.9	282.2	282.2
57.5°	281.0	268.6	261.4	256.9	255.6	253.0	251.4
60°	256.2	245.6	240.0	236.1	233.5	233.8	230.8
62.5°	232.0	225.1	219.7	215.8	212.7	212.7	212.9
65°	197.5	192.3	188.3	187.0	185.0	182.7	183.3
67.5°	167.4	162.5	159.4	157.1	156.4	155.2	157.1
70°	145.8	142.2	139.8	137.8	137.2	137.5	139.1
72.5°	126.0	123.4	121.9	121.0	119.5	119.6	120.7
75°	98.9	96.9	95.7	94.6	94.3	94.3	94.3
77.5°	72.7	72.2	71.6	70.2	70.3	70.6	70.7
80°	57.3	56.4	56.1	55.4	54.4	53.7	55.4
82.5°	42.9	41.8	41.6	41.4	39.9	39.8	41.2
85°	23.1	22.1	22.4	22.1	22.1	21.8	21.8
87.5°	13.5	13.4	13.3	13.7	13.4	13.3	13.9
90°	26.7	27.6	28.2	28.7	29.1	29.5	30.0
92.5°	29.9	31.3	32.1	32.4	32.7	33.0	33.2
95°	35.6	37.2	38.0	38.0	38.0	38.0	38.0
97.5°	37.5	39.3	40.3	40.6	40.8	41.0	41.2
100°	38.3	40.1	41.2	41.3	41.6	41.8	42.0
102.5°	49.2	43.7	41.2	41.6	42.0	42.4	42.8
105°	101.0	61.6	42.3	42.7	43.1	43.6	44.0
107.5°	315.0	286.1	256.8	227.2	197.5	167.9	138.3
110°	429.1	421.8	402.3	370.5	338.6	306.9	275.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	502.0	502.1	498.8	492.1	485.3	478.6	471.9
115°	580.8	583.1	584.6	585.5	586.4	587.3	588.1
117.5°	650.0	651.7	652.7	652.9	653.1	653.2	653.4
120°	695.5	697.3	698.2	698.2	698.2	698.2	698.2
122.5°	739.6	740.8	741.5	741.7	741.8	742.1	742.3
125°	801.6	802.0	802.5	802.9	803.4	803.8	804.3
127.5°	864.8	865.5	865.6	865.2	864.8	864.4	863.8
130°	902.9	903.9	904.0	903.6	903.2	902.8	902.3
132.5°	939.0	939.9	940.0	939.4	938.7	938.1	937.5
135°	993.3	994.0	994.0	993.3	992.6	992.0	991.4
137.5°	1042.3	1043.4	1043.7	1043.3	1042.8	1042.4	1041.9
140°	1073.0	1073.9	1074.1	1073.7	1073.2	1072.8	1072.4
142.5°	1102.1	1102.8	1102.9	1102.3	1101.6	1101.0	1100.4
145°	1142.7	1143.1	1143.3	1143.3	1143.3	1143.3	1143.3
147.5°	1179.3	1179.7	1179.5	1178.5	1177.4	1176.4	1175.4
150°	1201.7	1202.1	1202.0	1201.4	1200.8	1200.1	1199.4
152.5°	1222.0	1222.8	1222.7	1221.7	1220.6	1219.6	1218.6
155°	1249.7	1250.9	1250.7	1249.4	1248.1	1246.7	1245.4
157.5°	1273.8	1275.1	1275.0	1273.2	1271.4	1269.7	1268.0
160°	1287.4	1288.7	1288.7	1287.1	1285.6	1283.9	1282.4
162.5°	1299.9	1301.5	1301.5	1300.1	1298.7	1297.4	1296.0
165°	1316.7	1318.5	1318.6	1317.1	1315.5	1314.0	1312.4
167.5°	1329.6	1331.4	1331.4	1329.6	1327.7	1326.0	1324.2
170°	1336.8	1338.5	1338.5	1336.8	1335.0	1333.2	1331.5
172.5°	1341.5	1343.3	1343.2	1341.3	1339.4	1337.4	1335.4
175°	1347.1	1348.7	1348.5	1346.8	1345.0	1343.2	1341.4
177.5°	1349.1	1350.5	1350.3	1348.6	1346.8	1345.0	1343.2
180°	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4

(END OF REPORT)