

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: P332418-840

Luminaire Tested: **S123RDIW-S560D1030U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332418-840
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: S123RDIW-S560D1030U840-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1030 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6417.0 lumens
Efficiency: N/A
Efficacy: 142.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Indirect

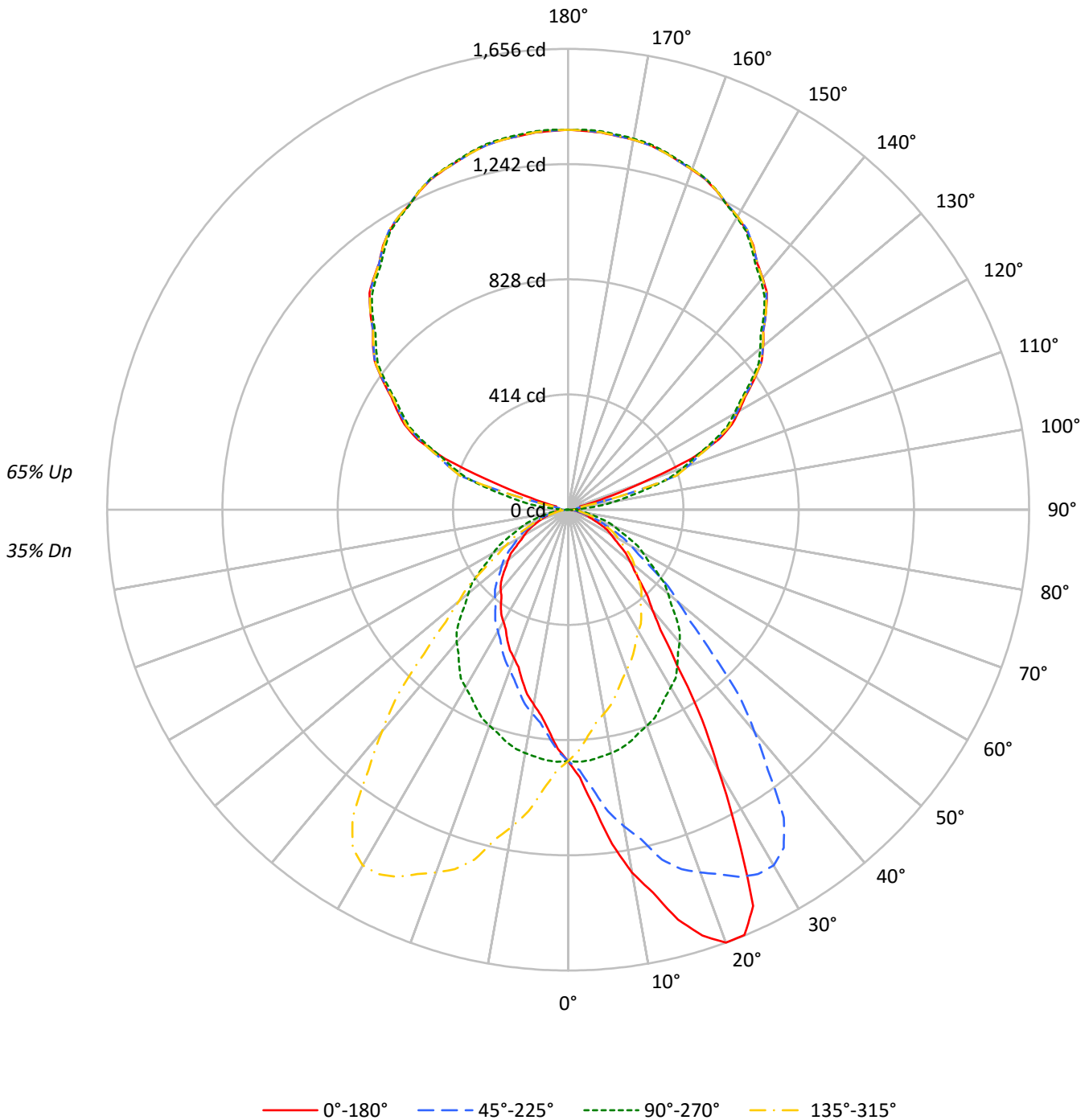
Input Watts (W): 45.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	42	42	42	35
1	95	91	87	84	86	82	79	76	66	64	62	52	50	49	38	37	37	30
2	87	80	74	69	78	72	67	63	59	55	52	46	44	42	34	33	31	26
3	79	70	63	58	71	64	58	53	52	48	44	41	38	36	31	29	27	23
4	73	62	55	49	66	57	50	45	46	42	38	37	33	31	27	25	24	20
5	67	56	48	42	60	51	44	39	42	37	33	33	30	27	25	23	21	17
6	62	50	42	37	56	46	39	34	38	33	29	30	26	24	23	20	19	15
7	57	45	38	32	51	41	35	30	34	29	25	27	24	21	21	18	17	14
8	53	41	34	29	48	38	31	27	31	26	23	25	21	19	19	17	15	12
9	49	37	30	25	44	34	28	24	28	24	20	23	19	17	18	15	14	11
10	46	34	27	23	42	31	25	21	26	21	18	21	18	15	16	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9725	9725	9725	9725
5°	11594	9767	8602	9767
10°	14476	9711	7770	9711
15°	16992	9611	7086	9611
20°	18963	9464	6504	9464
25°	18659	9308	6147	9308
30°	13412	9163	5778	9163
35°	8956	8976	5540	8976
40°	6598	8751	5295	8751
45°	5535	8356	5051	8356
50°	4883	7839	4716	7839
55°	4282	7246	4252	7246
60°	3813	6678	3899	6678
65°	3349	6067	3627	6067
70°	2628	5526	3311	5526
75°	2316	4824	3023	4824
80°	2015	4097	2975	4097
85°	1618	3298	3149	3298



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.9	1.4
10°-20°	277.6	4.3
20°-30°	436.1	6.8
30°-40°	455.0	7.1
40°-50°	389.4	6.1
50°-60°	296.8	4.6
60°-70°	190.2	3.0
70°-80°	91.5	1.4
80°-90°	28.0	0.4
90°-100°	49.6	0.8
100°-110°	236.6	3.7
110°-120°	568.2	8.9
120°-130°	723.6	11.3
130°-140°	773.1	12.0
140°-150°	723.0	11.3
150°-160°	583.2	9.1
160°-170°	376.4	5.9
170°-180°	129.7	2.0
0°-30°	802.6	12.5
0°-40°	1257.6	19.6
0°-60°	1943.7	30.3
0°-90°	2253.5	35.1
90°-120°	854.5	13.3
90°-150°	3074.2	47.9
90°-180°	4163.0	64.9
0°-180°	6417.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	904	904	904	904	904	
5°	1073	904	796	904	1073	111
15°	1525	862	636	862	1525	432
25°	1571	784	518	784	1571	675
35°	682	683	422	683	682	447
45°	364	549	332	549	364	286
55°	228	386	227	386	228	206
65°	132	238	142	238	132	129
75°	56	116	73	116	56	60
85°	13	27	26	27	13	16
90°	30	1	30	1	30	14
95°	39	62	39	62	39	32
105°	45	302	45	302	45	102
115°	596	567	596	567	596	551
125°	816	799	816	799	816	728
135°	1005	995	1005	995	1005	775
145°	1159	1148	1159	1148	1159	724
155°	1263	1265	1263	1265	1263	582
165°	1331	1334	1331	1334	1331	376
175°	1360	1365	1360	1365	1360	129
180°	1365	1365	1365	1365	1365	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5
2.5°	962.3	963.6	959.6	959.0	954.3	953.1	953.1	946.5	942.5	937.3	934.2
5°	1073.0	1079.1	1076.1	1069.1	1057.5	1054.8	1047.4	1035.8	1022.7	1006.4	998.8
7.5°	1211.1	1219.6	1216.3	1205.6	1193.5	1183.6	1162.9	1143.6	1116.6	1093.0	1072.7
10°	1324.4	1315.5	1308.6	1298.1	1286.9	1268.7	1247.1	1217.3	1182.9	1155.8	1125.6
12.5°	1409.2	1407.8	1398.9	1388.2	1372.3	1355.0	1328.4	1292.1	1252.1	1212.9	1178.5
15°	1524.8	1527.1	1521.3	1510.1	1487.6	1457.0	1416.8	1401.8	1344.5	1301.9	1259.4
17.5°	1604.8	1604.3	1603.5	1587.9	1565.1	1543.3	1506.0	1466.3	1414.5	1354.5	1297.3
20°	1655.5	1651.6	1652.4	1635.0	1618.0	1592.9	1556.5	1498.8	1456.3	1387.0	1327.9
22.5°	1654.3	1653.5	1656.4	1650.4	1638.1	1618.8	1590.2	1541.6	1487.2	1417.3	1350.8
25°	1571.1	1568.1	1586.3	1591.2	1611.0	1614.5	1606.0	1579.3	1527.8	1455.9	1373.5
27.5°	1314.9	1313.2	1347.0	1389.2	1442.8	1484.4	1524.6	1544.0	1527.8	1476.3	1393.8
30°	1079.1	1115.5	1132.6	1193.7	1261.7	1342.9	1414.1	1481.8	1498.4	1476.0	1408.4
32.5°	896.0	927.7	941.9	994.4	1057.8	1153.0	1259.7	1355.5	1423.3	1440.5	1399.7
35°	681.6	682.0	714.4	737.6	796.4	894.2	997.9	1126.3	1253.9	1350.7	1360.8
37.5°	543.8	545.7	565.4	588.5	632.7	684.4	775.7	882.4	1029.9	1178.3	1265.4
40°	469.6	473.0	487.8	510.6	542.3	581.4	652.6	753.1	876.1	1041.3	1176.3
42.5°	421.9	427.6	435.2	452.7	472.3	509.0	566.5	644.2	756.0	912.2	1067.9
45°	363.6	366.7	372.4	380.6	398.4	423.9	462.6	514.8	607.6	733.4	889.3
47.5°	320.7	319.1	325.2	331.8	343.7	361.0	387.0	429.6	495.8	596.6	728.9
50°	291.6	291.2	295.5	300.5	311.7	324.6	345.8	377.9	430.5	514.0	635.1
52.5°	264.4	265.9	268.9	275.2	283.3	293.6	312.7	335.8	381.0	453.1	554.0
55°	228.2	229.3	233.6	237.1	242.9	253.4	265.4	284.7	315.6	365.9	449.1
57.5°	197.5	197.0	201.2	202.0	208.5	217.0	226.3	241.4	263.8	301.1	357.2
60°	177.1	176.0	179.5	182.2	185.6	192.6	200.4	215.1	232.9	260.3	308.3
62.5°	158.5	158.0	160.6	163.3	166.1	172.5	179.0	190.3	204.4	227.5	265.6
65°	131.5	132.7	133.8	135.0	136.5	140.4	146.6	154.3	164.0	180.3	207.7
67.5°	103.3	104.5	104.9	107.2	110.6	113.0	116.8	123.7	130.5	144.1	159.8
70°	83.5	83.1	83.5	84.7	89.0	93.2	98.3	103.3	107.6	117.2	130.4
72.5°	71.8	71.1	72.1	72.3	74.4	75.5	78.8	83.5	89.0	95.5	105.0
75°	55.7	55.7	55.7	55.7	57.3	58.1	59.2	60.4	62.3	65.3	72.3
77.5°	41.2	41.2	41.8	42.1	42.5	42.9	43.6	44.8	45.4	47.2	50.1
80°	32.5	32.9	32.5	32.9	32.9	33.6	34.0	35.2	35.5	37.6	38.7
82.5°	24.4	24.2	24.4	24.8	24.8	25.7	25.7	26.6	26.7	27.6	28.8
85°	13.1	12.4	13.1	12.7	13.5	12.7	13.1	13.9	13.9	14.3	15.9
87.5°	9.2	9.7	9.0	9.2	9.1	9.3	9.1	9.0	9.4	8.9	8.6
90°	30.4	30.0	29.5	29.1	28.6	28.0	27.1	26.2	25.2	24.3	21.4
92.5°	33.6	33.4	33.1	32.8	32.6	31.7	30.3	28.9	27.4	26.0	23.7
95°	38.6	38.6	38.6	38.6	38.6	37.8	36.2	34.6	33.0	31.4	29.0
97.5°	41.8	41.6	41.3	41.1	40.9	39.9	38.1	36.3	34.4	32.6	48.9
100°	42.6	42.4	42.1	41.9	41.7	40.7	38.9	37.1	35.2	33.4	68.7
102.5°	43.4	43.0	42.6	42.2	41.8	44.3	50.0	55.5	61.2	66.8	105.1
105°	44.6	44.1	43.7	43.3	42.8	62.5	102.4	142.4	182.3	222.2	242.5
107.5°	140.2	170.3	200.4	230.4	260.4	290.1	319.4	348.6	377.9	407.2	403.9
110°	278.9	311.1	343.4	375.7	407.9	427.7	435.2	442.6	450.0	457.5	454.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	478.6	485.3	492.2	499.0	505.7	509.1	509.0	508.9	508.7	508.6	506.1
115°	596.4	595.5	594.6	593.7	592.8	591.3	589.0	586.7	584.5	582.2	580.2
117.5°	662.6	662.4	662.2	662.0	661.9	660.9	659.0	657.2	655.4	653.6	652.6
120°	708.0	708.0	708.0	708.0	708.0	707.1	705.3	703.5	701.7	699.8	699.2
122.5°	752.7	752.5	752.2	752.0	751.9	751.1	749.9	748.6	747.4	746.1	745.3
125°	815.5	815.1	814.6	814.2	813.7	813.2	812.8	812.3	811.9	811.4	810.5
127.5°	876.0	876.5	876.9	877.3	877.8	877.7	876.9	876.2	875.5	874.7	873.6
130°	914.9	915.3	915.8	916.3	916.8	916.5	915.5	914.7	913.8	912.9	912.0
132.5°	950.6	951.3	951.9	952.5	953.1	953.0	952.1	951.2	950.3	949.4	948.7
135°	1005.2	1005.8	1006.5	1007.2	1007.8	1007.8	1007.2	1006.5	1005.8	1005.2	1004.3
137.5°	1056.5	1056.9	1057.4	1057.8	1058.3	1058.0	1056.9	1055.8	1054.7	1053.7	1053.2
140°	1087.3	1087.8	1088.2	1088.7	1089.1	1088.9	1088.0	1087.1	1086.2	1085.3	1084.6
142.5°	1115.7	1116.4	1117.0	1117.6	1118.2	1118.2	1117.5	1116.8	1116.1	1115.3	1114.7
145°	1159.3	1159.3	1159.3	1159.3	1159.3	1159.1	1158.7	1158.2	1157.8	1157.3	1156.9
147.5°	1191.8	1192.9	1193.9	1195.0	1196.0	1196.3	1195.8	1195.4	1194.9	1194.5	1194.0
150°	1216.2	1216.9	1217.5	1218.2	1218.9	1219.0	1218.5	1218.1	1217.6	1217.2	1216.7
152.5°	1235.7	1236.7	1237.7	1238.7	1239.8	1239.9	1239.1	1238.3	1237.5	1236.7	1236.4
155°	1262.8	1264.1	1265.6	1266.9	1268.2	1268.4	1267.2	1266.1	1265.0	1263.8	1263.6
157.5°	1285.8	1287.5	1289.3	1291.0	1292.7	1292.9	1291.6	1290.3	1288.9	1287.6	1287.8
160°	1300.3	1301.9	1303.5	1305.0	1306.7	1306.8	1305.5	1304.0	1302.7	1301.4	1301.6
162.5°	1314.1	1315.6	1317.0	1318.4	1319.7	1319.7	1318.2	1316.6	1315.0	1313.5	1313.7
165°	1330.8	1332.3	1333.9	1335.5	1337.1	1337.0	1335.1	1333.3	1331.6	1329.8	1330.0
167.5°	1342.7	1344.5	1346.4	1348.2	1350.0	1350.0	1348.2	1346.4	1344.5	1342.7	1342.7
170°	1350.1	1351.8	1353.6	1355.4	1357.3	1357.3	1355.4	1353.6	1351.8	1350.1	1350.1
172.5°	1354.1	1356.0	1358.1	1360.1	1362.0	1362.1	1360.3	1358.6	1356.8	1354.9	1354.7
175°	1360.2	1362.0	1363.8	1365.6	1367.5	1367.6	1365.9	1364.3	1362.8	1361.2	1361.0
177.5°	1362.0	1363.8	1365.6	1367.5	1369.3	1369.4	1368.0	1366.5	1365.1	1363.6	1363.4
180°	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5
2.5°	932.9	932.0	927.7	922.7	916.3	911.9	908.5	906.7	901.1	894.2	889.6
5°	990.6	979.0	966.6	951.5	937.6	923.3	914.4	903.9	891.2	876.9	866.8
7.5°	1052.3	1029.6	1005.0	979.8	954.7	932.3	912.5	895.5	875.3	854.7	840.3
10°	1099.6	1066.4	1032.0	996.7	964.6	934.5	911.3	888.5	864.1	840.5	822.7
12.5°	1142.7	1098.9	1059.2	1015.9	974.9	938.9	905.4	878.6	849.3	824.2	803.9
15°	1197.1	1152.3	1104.3	1038.5	984.0	938.4	897.8	862.5	827.0	796.1	776.3
17.5°	1248.0	1180.5	1116.1	1061.2	990.4	933.3	883.7	841.6	802.6	769.8	745.5
20°	1269.1	1203.8	1133.7	1063.7	994.1	930.3	872.6	826.2	785.6	748.4	726.0
22.5°	1281.7	1207.7	1134.0	1058.7	984.8	918.5	861.5	810.4	766.4	731.1	703.5
25°	1296.6	1208.3	1127.1	1052.9	977.4	905.4	837.8	783.7	736.1	698.5	669.1
27.5°	1306.3	1202.5	1106.5	1024.0	947.5	875.9	813.9	756.4	708.1	668.4	636.9
30°	1308.2	1197.9	1090.8	1001.4	923.6	857.9	792.1	737.2	686.2	644.0	614.6
32.5°	1310.6	1186.5	1069.4	974.5	894.9	829.8	770.2	717.7	665.4	623.9	593.9
35°	1300.4	1180.1	1037.0	928.0	848.3	785.2	731.4	683.1	631.7	591.4	560.9
37.5°	1256.5	1155.0	1003.4	875.5	792.1	733.8	689.9	647.8	600.7	557.2	528.5
40°	1212.2	1130.2	977.4	843.6	756.6	696.6	657.1	622.8	577.1	536.4	505.5
42.5°	1146.3	1096.5	952.7	810.2	716.3	658.5	625.3	593.0	553.0	511.7	482.6
45°	1025.4	1032.0	902.0	757.0	660.7	602.6	571.3	548.9	513.3	479.3	449.5
47.5°	873.7	935.2	842.5	700.2	602.0	547.4	520.1	500.5	476.6	443.1	416.0
50°	774.8	862.5	794.9	662.2	565.1	511.0	483.9	468.1	447.2	420.8	395.0
52.5°	683.5	777.8	737.3	619.8	525.2	475.6	449.2	436.2	419.6	394.9	371.4
55°	557.3	652.9	643.6	555.8	465.3	420.8	400.7	386.1	374.8	356.3	337.7
57.5°	450.8	541.4	546.2	484.6	412.5	368.6	351.3	340.2	332.9	318.9	301.7
60°	383.7	466.9	483.1	436.7	374.8	336.1	319.1	310.2	304.4	293.2	280.0
62.5°	328.0	398.8	417.2	383.7	338.6	302.4	289.1	280.5	276.6	266.9	255.3
65°	251.1	309.8	327.6	309.0	285.5	256.4	245.6	238.2	234.8	229.3	220.9
67.5°	188.7	231.7	251.2	238.0	229.5	211.2	204.3	200.4	197.2	193.6	186.4
70°	151.6	183.4	203.5	200.0	193.0	183.4	178.3	175.6	172.5	169.5	163.2
72.5°	121.9	143.7	162.6	164.4	158.6	156.7	152.3	151.2	149.3	145.6	142.2
75°	80.9	95.9	109.1	114.1	116.4	118.4	116.4	116.0	115.6	112.6	110.6
77.5°	53.0	61.1	69.4	78.0	81.6	84.2	84.8	86.2	85.2	83.6	82.7
80°	40.6	42.5	48.4	55.7	61.5	63.8	65.3	66.1	65.7	65.3	63.8
82.5°	29.5	31.1	33.8	39.0	43.8	47.8	48.7	48.5	49.4	49.6	48.4
85°	15.9	16.3	17.1	17.8	20.5	24.7	26.0	26.7	27.5	27.5	25.1
87.5°	8.7	7.8	7.8	7.3	7.8	7.6	9.0	10.1	10.9	10.1	10.5
90°	18.5	15.6	12.6	10.0	7.8	5.6	3.2	1.0	3.2	5.6	7.8
92.5°	21.5	19.4	17.2	16.4	17.0	17.6	18.3	18.9	18.3	17.6	17.0
95°	26.5	24.0	21.5	24.9	34.1	43.4	52.6	61.9	52.6	43.4	34.1
97.5°	65.1	81.4	97.6	107.8	111.9	116.0	120.2	124.3	120.2	116.0	111.9
100°	103.8	139.0	174.1	189.5	184.9	180.5	175.9	171.4	175.9	180.5	184.9
102.5°	143.6	182.0	220.4	237.9	234.7	231.5	228.2	225.0	228.2	231.5	234.7
105°	262.7	283.0	303.3	312.1	309.7	307.2	304.8	302.3	304.8	307.2	309.7
107.5°	400.7	397.6	394.4	391.7	389.8	387.8	385.8	383.8	385.8	387.8	389.8
110°	452.5	450.0	447.6	445.4	443.6	441.8	440.0	438.2	440.0	441.8	443.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	503.6	501.1	498.7	496.7	495.0	493.3	491.7	490.1	491.7	493.3	495.0
115°	578.1	576.1	574.1	572.4	571.1	569.7	568.4	567.0	568.4	569.7	571.1
117.5°	651.6	650.6	649.4	648.1	646.4	644.8	643.1	641.5	643.1	644.8	646.4
120°	698.5	697.8	697.2	695.8	693.8	691.8	689.7	687.7	689.7	691.8	693.8
122.5°	744.4	743.6	742.7	741.4	739.7	738.1	736.4	734.8	736.4	738.1	739.7
125°	809.6	808.7	807.9	806.5	804.7	802.8	801.1	799.3	801.1	802.8	804.7
127.5°	872.6	871.5	870.4	869.0	867.2	865.4	863.5	861.7	863.5	865.4	867.2
130°	911.1	910.2	909.3	908.0	906.2	904.3	902.5	900.7	902.5	904.3	906.2
132.5°	948.0	947.3	946.5	945.2	943.4	941.6	939.9	938.1	939.9	941.6	943.4
135°	1003.4	1002.5	1001.6	1000.5	999.1	997.7	996.4	995.0	996.4	997.7	999.1
137.5°	1052.7	1052.2	1051.7	1050.6	1048.8	1047.1	1045.4	1043.7	1045.4	1047.1	1048.8
140°	1084.0	1083.3	1082.6	1081.6	1080.3	1078.9	1077.5	1076.2	1077.5	1078.9	1080.3
142.5°	1114.0	1113.3	1112.7	1111.7	1110.2	1108.9	1107.5	1106.2	1107.5	1108.9	1110.2
145°	1156.4	1156.0	1155.5	1154.5	1153.0	1151.3	1149.7	1148.2	1149.7	1151.3	1153.0
147.5°	1193.6	1193.1	1192.7	1191.9	1190.8	1189.8	1188.8	1187.8	1188.8	1189.8	1190.8
150°	1216.3	1215.8	1215.4	1214.8	1214.2	1213.5	1212.7	1212.1	1212.7	1213.5	1214.2
152.5°	1236.1	1235.9	1235.6	1235.3	1235.0	1234.7	1234.4	1234.1	1234.4	1234.7	1235.0
155°	1263.3	1263.1	1262.9	1263.0	1263.5	1263.9	1264.4	1264.9	1264.4	1263.9	1263.5
157.5°	1288.0	1288.3	1288.5	1288.6	1288.7	1288.7	1288.8	1288.8	1288.8	1288.7	1288.7
160°	1301.8	1302.0	1302.2	1302.5	1302.7	1302.9	1303.1	1303.4	1303.1	1302.9	1302.7
162.5°	1314.0	1314.2	1314.4	1314.8	1315.5	1316.1	1316.6	1317.2	1316.6	1316.1	1315.5
165°	1330.2	1330.4	1330.7	1331.1	1331.8	1332.5	1333.1	1333.8	1333.1	1332.5	1331.8
167.5°	1342.7	1342.7	1342.7	1343.2	1344.1	1345.0	1345.9	1346.8	1345.9	1345.0	1344.1
170°	1350.1	1350.1	1350.1	1350.5	1351.4	1352.3	1353.2	1354.1	1353.2	1352.3	1351.4
172.5°	1354.5	1354.3	1354.2	1354.6	1355.7	1356.9	1357.9	1359.0	1357.9	1356.9	1355.7
175°	1360.8	1360.5	1360.3	1360.8	1361.9	1363.0	1364.1	1365.2	1364.1	1363.0	1361.9
177.5°	1363.3	1363.1	1362.9	1363.3	1364.2	1365.1	1365.9	1366.9	1365.9	1365.1	1364.2
180°	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5
2.5°	888.1	884.0	881.3	875.0	871.1	866.8	862.4	865.2	864.8	864.5	864.5
5°	858.3	849.4	841.3	830.8	824.3	816.2	809.9	809.2	810.7	805.3	802.2
7.5°	828.8	816.6	805.1	793.6	781.3	771.5	765.5	762.7	758.7	755.4	751.8
10°	808.0	793.8	782.4	768.2	755.1	743.5	736.1	731.0	728.3	725.6	720.6
12.5°	786.7	772.6	758.3	742.1	729.6	716.2	710.7	705.1	699.8	696.8	689.9
15°	755.4	737.2	722.2	705.1	691.3	678.0	670.3	659.1	657.5	653.7	646.7
17.5°	724.1	704.4	683.6	671.0	655.2	641.6	629.8	626.0	614.9	610.8	604.7
20°	699.3	681.2	665.3	648.6	625.8	613.1	603.8	598.7	589.9	584.4	580.6
22.5°	678.0	659.4	641.2	621.8	602.9	588.7	581.8	574.0	569.2	561.6	557.3
25°	647.5	627.4	605.3	584.4	570.9	560.1	549.3	542.3	535.3	531.8	524.1
27.5°	612.1	591.1	570.5	554.6	538.0	527.3	517.5	511.3	502.9	497.1	492.8
30°	592.6	567.8	550.1	535.7	514.4	504.4	497.1	489.3	483.1	477.0	472.6
32.5°	570.0	547.3	530.5	512.8	496.4	485.5	475.9	469.2	463.9	458.1	453.8
35°	534.5	515.6	498.2	480.4	468.4	457.2	446.0	440.2	435.2	429.7	425.9
37.5°	502.5	484.8	468.3	451.4	436.6	427.4	418.4	413.9	407.2	403.5	399.6
40°	482.7	465.3	447.6	431.3	415.8	408.9	400.7	394.2	388.0	385.3	381.0
42.5°	461.1	443.6	428.7	411.1	398.5	389.0	381.5	374.4	369.7	365.8	363.3
45°	429.0	413.4	398.8	381.4	369.4	361.2	352.7	346.2	341.9	339.2	335.0
47.5°	397.8	382.3	367.4	352.2	340.6	331.3	322.9	318.2	312.7	309.3	306.4
50°	375.2	361.2	345.4	331.4	319.9	310.6	303.7	297.8	292.8	288.5	286.6
52.5°	354.5	339.6	325.9	313.0	300.7	290.1	283.9	277.7	274.0	269.0	266.8
55°	320.2	306.0	294.4	281.6	269.6	260.7	253.0	247.5	243.7	238.2	235.2
57.5°	288.1	275.3	261.5	250.4	238.0	230.6	224.1	216.7	212.1	207.8	204.8
60°	266.5	251.8	239.8	229.3	218.5	208.8	203.1	197.2	192.3	187.9	185.3
62.5°	243.9	231.1	219.7	208.3	198.4	190.0	183.3	178.3	174.0	171.3	168.5
65°	209.2	199.2	187.6	178.3	169.1	162.9	157.4	153.2	150.1	148.1	145.8
67.5°	177.4	167.6	157.5	148.3	142.2	137.4	133.9	130.3	128.8	126.2	124.7
70°	156.6	146.6	137.7	130.8	124.5	121.1	118.8	116.0	114.5	111.4	109.9
72.5°	134.1	126.8	120.4	114.6	109.7	106.5	103.6	100.3	97.8	94.4	92.8
75°	105.6	99.1	94.0	90.1	87.1	82.8	78.6	75.0	73.9	72.7	72.3
77.5°	78.2	74.0	70.4	67.2	63.3	60.2	59.3	58.5	58.3	57.7	57.7
80°	61.5	57.7	54.9	51.1	48.8	48.8	48.8	48.0	48.4	48.4	48.4
82.5°	45.7	42.1	40.7	39.3	38.9	39.2	39.2	39.3	39.1	39.7	39.4
85°	23.6	23.9	24.7	24.3	24.7	24.7	25.5	25.1	25.5	24.7	25.5
87.5°	10.7	12.1	13.0	13.9	14.8	15.0	15.6	15.8	16.3	16.5	16.6
90°	10.0	12.6	15.6	18.5	21.4	24.3	25.2	26.2	27.1	28.0	28.6
92.5°	16.4	17.2	19.4	21.5	23.7	26.0	27.4	28.9	30.3	31.7	32.6
95°	24.9	21.5	24.0	26.5	29.0	31.4	33.0	34.6	36.2	37.8	38.6
97.5°	107.8	97.6	81.4	65.1	48.9	32.6	34.4	36.3	38.1	39.9	40.9
100°	189.5	174.1	139.0	103.8	68.7	33.4	35.2	37.1	38.9	40.7	41.7
102.5°	237.9	220.4	182.0	143.6	105.1	66.8	61.2	55.5	50.0	44.3	41.8
105°	312.1	303.3	283.0	262.7	242.5	222.2	182.3	142.4	102.4	62.5	42.8
107.5°	391.7	394.4	397.6	400.7	403.9	407.2	377.9	348.6	319.4	290.1	260.4
110°	445.4	447.6	450.0	452.5	454.9	457.5	450.0	442.6	435.2	427.7	407.9



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	496.7	498.7	501.1	503.6	506.1	508.6	508.7	508.9	509.0	509.1	505.7
115°	572.4	574.1	576.1	578.1	580.2	582.2	584.5	586.7	589.0	591.3	592.8
117.5°	648.1	649.4	650.6	651.6	652.6	653.6	655.4	657.2	659.0	660.9	661.9
120°	695.8	697.2	697.8	698.5	699.2	699.8	701.7	703.5	705.3	707.1	708.0
122.5°	741.4	742.7	743.6	744.4	745.3	746.1	747.4	748.6	749.9	751.1	751.9
125°	806.5	807.9	808.7	809.6	810.5	811.4	811.9	812.3	812.8	813.2	813.7
127.5°	869.0	870.4	871.5	872.6	873.6	874.7	875.5	876.2	876.9	877.7	877.8
130°	908.0	909.3	910.2	911.1	912.0	912.9	913.8	914.7	915.5	916.5	916.8
132.5°	945.2	946.5	947.3	948.0	948.7	949.4	950.3	951.2	952.1	953.0	953.1
135°	1000.5	1001.6	1002.5	1003.4	1004.3	1005.2	1005.8	1006.5	1007.2	1007.8	1007.8
137.5°	1050.6	1051.7	1052.2	1052.7	1053.2	1053.7	1054.7	1055.8	1056.9	1058.0	1058.3
140°	1081.6	1082.6	1083.3	1084.0	1084.6	1085.3	1086.2	1087.1	1088.0	1088.9	1089.1
142.5°	1111.7	1112.7	1113.3	1114.0	1114.7	1115.3	1116.1	1116.8	1117.5	1118.2	1118.2
145°	1154.5	1155.5	1156.0	1156.4	1156.9	1157.3	1157.8	1158.2	1158.7	1159.1	1159.3
147.5°	1191.9	1192.7	1193.1	1193.6	1194.0	1194.5	1194.9	1195.4	1195.8	1196.3	1196.0
150°	1214.8	1215.4	1215.8	1216.3	1216.7	1217.2	1217.6	1218.1	1218.5	1219.0	1218.9
152.5°	1235.3	1235.6	1235.9	1236.1	1236.4	1236.7	1237.5	1238.3	1239.1	1239.9	1239.8
155°	1263.0	1262.9	1263.1	1263.3	1263.6	1263.8	1265.0	1266.1	1267.2	1268.4	1268.2
157.5°	1288.6	1288.5	1288.3	1288.0	1287.8	1287.6	1288.9	1290.3	1291.6	1292.9	1292.7
160°	1302.5	1302.2	1302.0	1301.8	1301.6	1301.4	1302.7	1304.0	1305.5	1306.8	1306.7
162.5°	1314.8	1314.4	1314.2	1314.0	1313.7	1313.5	1315.0	1316.6	1318.2	1319.7	1319.7
165°	1331.1	1330.7	1330.4	1330.2	1330.0	1329.8	1331.6	1333.3	1335.1	1337.0	1337.1
167.5°	1343.2	1342.7	1342.7	1342.7	1342.7	1342.7	1344.5	1346.4	1348.2	1350.0	1350.0
170°	1350.5	1350.1	1350.1	1350.1	1350.1	1350.1	1351.8	1353.6	1355.4	1357.3	1357.3
172.5°	1354.6	1354.2	1354.3	1354.5	1354.7	1354.9	1356.8	1358.6	1360.3	1362.1	1362.0
175°	1360.8	1360.3	1360.5	1360.8	1361.0	1361.2	1362.8	1364.3	1365.9	1367.6	1367.5
177.5°	1363.3	1362.9	1363.1	1363.3	1363.4	1363.6	1365.1	1366.5	1368.0	1369.4	1369.3
180°	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2



TEST NUMBER: P332418-840

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5
2.5°	860.8	860.5	860.8	859.6	860.8	860.5	860.8	864.5	864.5	864.8	865.2
5°	801.0	800.6	799.5	796.1	799.5	800.6	801.0	802.2	805.3	810.7	809.2
7.5°	748.8	748.3	744.9	745.0	744.9	748.3	748.8	751.8	755.4	758.7	762.7
10°	717.9	718.3	713.7	710.9	713.7	718.3	717.9	720.6	725.6	728.3	731.0
12.5°	687.9	686.1	682.4	679.3	682.4	686.1	687.9	689.9	696.8	699.8	705.1
15°	648.2	644.4	635.1	635.9	635.1	644.4	648.2	646.7	653.7	657.5	659.1
17.5°	601.6	598.7	598.6	593.2	598.6	598.7	601.6	604.7	610.8	614.9	626.0
20°	574.4	572.5	573.2	567.8	573.2	572.5	574.4	580.6	584.4	589.9	598.7
22.5°	553.0	551.1	547.9	546.1	547.9	551.1	553.0	557.3	561.6	569.2	574.0
25°	521.8	518.7	515.6	517.6	515.6	518.7	521.8	524.1	531.8	535.3	542.3
27.5°	490.5	488.2	485.1	484.7	485.1	488.2	490.5	492.8	497.1	502.9	511.3
30°	470.7	468.4	466.9	464.9	466.9	468.4	470.7	472.6	477.0	483.1	489.3
32.5°	450.6	450.2	447.4	447.0	447.4	450.2	450.6	453.8	458.1	463.9	469.2
35°	424.3	422.0	421.2	421.6	421.2	422.0	424.3	425.9	429.7	435.2	440.2
37.5°	399.3	396.3	394.9	393.4	394.9	396.3	399.3	399.6	403.5	407.2	413.9
40°	381.4	378.3	377.5	376.8	377.5	378.3	381.4	381.0	385.3	388.0	394.2
42.5°	361.2	360.0	359.6	358.2	359.6	360.0	361.2	363.3	365.8	369.7	374.4
45°	333.8	333.5	331.1	331.8	331.1	333.5	333.8	335.0	339.2	341.9	346.2
47.5°	304.9	303.2	301.5	302.7	301.5	303.2	304.9	306.4	309.3	312.7	318.2
50°	285.1	284.3	280.8	281.6	280.8	284.3	285.1	286.6	288.5	292.8	297.8
52.5°	265.3	262.4	261.1	260.5	261.1	262.4	265.3	266.8	269.0	274.0	277.7
55°	232.5	228.9	227.4	226.6	227.4	228.9	232.5	235.2	238.2	243.7	247.5
57.5°	200.3	199.3	198.1	198.9	198.1	199.3	200.3	204.8	207.8	212.1	216.7
60°	181.4	181.4	181.4	181.1	181.4	181.4	181.4	185.3	187.9	192.3	197.2
62.5°	166.8	165.9	165.6	166.1	165.6	165.9	166.8	168.5	171.3	174.0	178.3
65°	144.6	144.3	142.7	142.4	142.7	144.3	144.6	145.8	148.1	150.1	153.2
67.5°	123.7	122.3	121.9	121.3	121.9	122.3	123.7	124.7	126.2	128.8	130.3
70°	108.0	107.1	104.8	105.2	104.8	107.1	108.0	109.9	111.4	114.5	116.0
72.5°	90.9	90.1	89.7	89.1	89.7	90.1	90.9	92.8	94.4	97.8	100.3
75°	71.9	71.6	71.2	72.7	71.2	71.6	71.9	72.3	72.7	73.9	75.0
77.5°	57.7	57.7	57.9	57.3	57.9	57.7	57.7	57.7	57.7	58.3	58.5
80°	48.4	48.4	48.0	48.0	48.0	48.4	48.4	48.4	48.4	48.4	48.0
82.5°	38.8	39.1	39.3	38.7	39.3	39.1	38.8	39.4	39.7	39.1	39.3
85°	25.5	25.1	26.0	25.5	26.0	25.1	25.5	25.5	24.7	25.5	25.1
87.5°	17.3	16.8	16.9	17.3	16.9	16.8	17.3	16.6	16.5	16.3	15.8
90°	29.1	29.5	30.0	30.4	30.0	29.5	29.1	28.6	28.0	27.1	26.2
92.5°	32.8	33.1	33.4	33.6	33.4	33.1	32.8	32.6	31.7	30.3	28.9
95°	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	37.8	36.2	34.6
97.5°	41.1	41.3	41.6	41.8	41.6	41.3	41.1	40.9	39.9	38.1	36.3
100°	41.9	42.1	42.4	42.6	42.4	42.1	41.9	41.7	40.7	38.9	37.1
102.5°	42.2	42.6	43.0	43.4	43.0	42.6	42.2	41.8	44.3	50.0	55.5
105°	43.3	43.7	44.1	44.6	44.1	43.7	43.3	42.8	62.5	102.4	142.4
107.5°	230.4	200.4	170.3	140.2	170.3	200.4	230.4	260.4	290.1	319.4	348.6
110°	375.7	343.4	311.1	278.9	311.1	343.4	375.7	407.9	427.7	435.2	442.6



TEST NUMBER: P332418-840

CATALOG NUMBER: S123RDIW-S560D1030U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	499.0	492.2	485.3	478.6	485.3	492.2	499.0	505.7	509.1	509.0	508.9
115°	593.7	594.6	595.5	596.4	595.5	594.6	593.7	592.8	591.3	589.0	586.7
117.5°	662.0	662.2	662.4	662.6	662.4	662.2	662.0	661.9	660.9	659.0	657.2
120°	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	707.1	705.3	703.5
122.5°	752.0	752.2	752.5	752.7	752.5	752.2	752.0	751.9	751.1	749.9	748.6
125°	814.2	814.6	815.1	815.5	815.1	814.6	814.2	813.7	813.2	812.8	812.3
127.5°	877.3	876.9	876.5	876.0	876.5	876.9	877.3	877.8	877.7	876.9	876.2
130°	916.3	915.8	915.3	914.9	915.3	915.8	916.3	916.8	916.5	915.5	914.7
132.5°	952.5	951.9	951.3	950.6	951.3	951.9	952.5	953.1	953.0	952.1	951.2
135°	1007.2	1006.5	1005.8	1005.2	1005.8	1006.5	1007.2	1007.8	1007.8	1007.2	1006.5
137.5°	1057.8	1057.4	1056.9	1056.5	1056.9	1057.4	1057.8	1058.3	1058.0	1056.9	1055.8
140°	1088.7	1088.2	1087.8	1087.3	1087.8	1088.2	1088.7	1089.1	1088.9	1088.0	1087.1
142.5°	1117.6	1117.0	1116.4	1115.7	1116.4	1117.0	1117.6	1118.2	1118.2	1117.5	1116.8
145°	1159.3	1159.3	1159.3	1159.3	1159.3	1159.3	1159.3	1159.3	1159.1	1158.7	1158.2
147.5°	1195.0	1193.9	1192.9	1191.8	1192.9	1193.9	1195.0	1196.0	1196.3	1195.8	1195.4
150°	1218.2	1217.5	1216.9	1216.2	1216.9	1217.5	1218.2	1218.9	1219.0	1218.5	1218.1
152.5°	1238.7	1237.7	1236.7	1235.7	1236.7	1237.7	1238.7	1239.8	1239.9	1239.1	1238.3
155°	1266.9	1265.6	1264.1	1262.8	1264.1	1265.6	1266.9	1268.2	1268.4	1267.2	1266.1
157.5°	1291.0	1289.3	1287.5	1285.8	1287.5	1289.3	1291.0	1292.7	1292.9	1291.6	1290.3
160°	1305.0	1303.5	1301.9	1300.3	1301.9	1303.5	1305.0	1306.7	1306.8	1305.5	1304.0
162.5°	1318.4	1317.0	1315.6	1314.1	1315.6	1317.0	1318.4	1319.7	1319.7	1318.2	1316.6
165°	1335.5	1333.9	1332.3	1330.8	1332.3	1333.9	1335.5	1337.1	1337.0	1335.1	1333.3
167.5°	1348.2	1346.4	1344.5	1342.7	1344.5	1346.4	1348.2	1350.0	1350.0	1348.2	1346.4
170°	1355.4	1353.6	1351.8	1350.1	1351.8	1353.6	1355.4	1357.3	1357.3	1355.4	1353.6
172.5°	1360.1	1358.1	1356.0	1354.1	1356.0	1358.1	1360.1	1362.0	1362.1	1360.3	1358.6
175°	1365.6	1363.8	1362.0	1360.2	1362.0	1363.8	1365.6	1367.5	1367.6	1365.9	1364.3
177.5°	1367.5	1365.6	1363.8	1362.0	1363.8	1365.6	1367.5	1369.3	1369.4	1368.0	1366.5
180°	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5
2.5°	862.4	866.8	871.1	875.0	881.3	884.0	888.1	889.6	894.2	901.1	906.7
5°	809.9	816.2	824.3	830.8	841.3	849.4	858.3	866.8	876.9	891.2	903.9
7.5°	765.5	771.5	781.3	793.6	805.1	816.6	828.8	840.3	854.7	875.3	895.5
10°	736.1	743.5	755.1	768.2	782.4	793.8	808.0	822.7	840.5	864.1	888.5
12.5°	710.7	716.2	729.6	742.1	758.3	772.6	786.7	803.9	824.2	849.3	878.6
15°	670.3	678.0	691.3	705.1	722.2	737.2	755.4	776.3	796.1	827.0	862.5
17.5°	629.8	641.6	655.2	671.0	683.6	704.4	724.1	745.5	769.8	802.6	841.6
20°	603.8	613.1	625.8	648.6	665.3	681.2	699.3	726.0	748.4	785.6	826.2
22.5°	581.8	588.7	602.9	621.8	641.2	659.4	678.0	703.5	731.1	766.4	810.4
25°	549.3	560.1	570.9	584.4	605.3	627.4	647.5	669.1	698.5	736.1	783.7
27.5°	517.5	527.3	538.0	554.6	570.5	591.1	612.1	636.9	668.4	708.1	756.4
30°	497.1	504.4	514.4	535.7	550.1	567.8	592.6	614.6	644.0	686.2	737.2
32.5°	475.9	485.5	496.4	512.8	530.5	547.3	570.0	593.9	623.9	665.4	717.7
35°	446.0	457.2	468.4	480.4	498.2	515.6	534.5	560.9	591.4	631.7	683.1
37.5°	418.4	427.4	436.6	451.4	468.3	484.8	502.5	528.5	557.2	600.7	647.8
40°	400.7	408.9	415.8	431.3	447.6	465.3	482.7	505.5	536.4	577.1	622.8
42.5°	381.5	389.0	398.5	411.1	428.7	443.6	461.1	482.6	511.7	553.0	593.0
45°	352.7	361.2	369.4	381.4	398.8	413.4	429.0	449.5	479.3	513.3	548.9
47.5°	322.9	331.3	340.6	352.2	367.4	382.3	397.8	416.0	443.1	476.6	500.5
50°	303.7	310.6	319.9	331.4	345.4	361.2	375.2	395.0	420.8	447.2	468.1
52.5°	283.9	290.1	300.7	313.0	325.9	339.6	354.5	371.4	394.9	419.6	436.2
55°	253.0	260.7	269.6	281.6	294.4	306.0	320.2	337.7	356.3	374.8	386.1
57.5°	224.1	230.6	238.0	250.4	261.5	275.3	288.1	301.7	318.9	332.9	340.2
60°	203.1	208.8	218.5	229.3	239.8	251.8	266.5	280.0	293.2	304.4	310.2
62.5°	183.3	190.0	198.4	208.3	219.7	231.1	243.9	255.3	266.9	276.6	280.5
65°	157.4	162.9	169.1	178.3	187.6	199.2	209.2	220.9	229.3	234.8	238.2
67.5°	133.9	137.4	142.2	148.3	157.5	167.6	177.4	186.4	193.6	197.2	200.4
70°	118.8	121.1	124.5	130.8	137.7	146.6	156.6	163.2	169.5	172.5	175.6
72.5°	103.6	106.5	109.7	114.6	120.4	126.8	134.1	142.2	145.6	149.3	151.2
75°	78.6	82.8	87.1	90.1	94.0	99.1	105.6	110.6	112.6	115.6	116.0
77.5°	59.3	60.2	63.3	67.2	70.4	74.0	78.2	82.7	83.6	85.2	86.2
80°	48.8	48.8	48.8	51.1	54.9	57.7	61.5	63.8	65.3	65.7	66.1
82.5°	39.2	39.2	38.9	39.3	40.7	42.1	45.7	48.4	49.6	49.4	48.5
85°	25.5	24.7	24.7	24.3	24.7	23.9	23.6	25.1	27.5	27.5	26.7
87.5°	15.6	15.0	14.8	13.9	13.0	12.1	10.7	10.5	10.1	10.9	10.1
90°	25.2	24.3	21.4	18.5	15.6	12.6	10.0	7.8	5.6	3.2	1.0
92.5°	27.4	26.0	23.7	21.5	19.4	17.2	16.4	17.0	17.6	18.3	18.9
95°	33.0	31.4	29.0	26.5	24.0	21.5	24.9	34.1	43.4	52.6	61.9
97.5°	34.4	32.6	48.9	65.1	81.4	97.6	107.8	111.9	116.0	120.2	124.3
100°	35.2	33.4	68.7	103.8	139.0	174.1	189.5	184.9	180.5	175.9	171.4
102.5°	61.2	66.8	105.1	143.6	182.0	220.4	237.9	234.7	231.5	228.2	225.0
105°	182.3	222.2	242.5	262.7	283.0	303.3	312.1	309.7	307.2	304.8	302.3
107.5°	377.9	407.2	403.9	400.7	397.6	394.4	391.7	389.8	387.8	385.8	383.8
110°	450.0	457.5	454.9	452.5	450.0	447.6	445.4	443.6	441.8	440.0	438.2



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	508.7	508.6	506.1	503.6	501.1	498.7	496.7	495.0	493.3	491.7	490.1
115°	584.5	582.2	580.2	578.1	576.1	574.1	572.4	571.1	569.7	568.4	567.0
117.5°	655.4	653.6	652.6	651.6	650.6	649.4	648.1	646.4	644.8	643.1	641.5
120°	701.7	699.8	699.2	698.5	697.8	697.2	695.8	693.8	691.8	689.7	687.7
122.5°	747.4	746.1	745.3	744.4	743.6	742.7	741.4	739.7	738.1	736.4	734.8
125°	811.9	811.4	810.5	809.6	808.7	807.9	806.5	804.7	802.8	801.1	799.3
127.5°	875.5	874.7	873.6	872.6	871.5	870.4	869.0	867.2	865.4	863.5	861.7
130°	913.8	912.9	912.0	911.1	910.2	909.3	908.0	906.2	904.3	902.5	900.7
132.5°	950.3	949.4	948.7	948.0	947.3	946.5	945.2	943.4	941.6	939.9	938.1
135°	1005.8	1005.2	1004.3	1003.4	1002.5	1001.6	1000.5	999.1	997.7	996.4	995.0
137.5°	1054.7	1053.7	1053.2	1052.7	1052.2	1051.7	1050.6	1048.8	1047.1	1045.4	1043.7
140°	1086.2	1085.3	1084.6	1084.0	1083.3	1082.6	1081.6	1080.3	1078.9	1077.5	1076.2
142.5°	1116.1	1115.3	1114.7	1114.0	1113.3	1112.7	1111.7	1110.2	1108.9	1107.5	1106.2
145°	1157.8	1157.3	1156.9	1156.4	1156.0	1155.5	1154.5	1153.0	1151.3	1149.7	1148.2
147.5°	1194.9	1194.5	1194.0	1193.6	1193.1	1192.7	1191.9	1190.8	1189.8	1188.8	1187.8
150°	1217.6	1217.2	1216.7	1216.3	1215.8	1215.4	1214.8	1214.2	1213.5	1212.7	1212.1
152.5°	1237.5	1236.7	1236.4	1236.1	1235.9	1235.6	1235.3	1235.0	1234.7	1234.4	1234.1
155°	1265.0	1263.8	1263.6	1263.3	1263.1	1262.9	1263.0	1263.5	1263.9	1264.4	1264.9
157.5°	1288.9	1287.6	1287.8	1288.0	1288.3	1288.5	1288.6	1288.7	1288.7	1288.8	1288.8
160°	1302.7	1301.4	1301.6	1301.8	1302.0	1302.2	1302.5	1302.7	1302.9	1303.1	1303.4
162.5°	1315.0	1313.5	1313.7	1314.0	1314.2	1314.4	1314.8	1315.5	1316.1	1316.6	1317.2
165°	1331.6	1329.8	1330.0	1330.2	1330.4	1330.7	1331.1	1331.8	1332.5	1333.1	1333.8
167.5°	1344.5	1342.7	1342.7	1342.7	1342.7	1342.7	1343.2	1344.1	1345.0	1345.9	1346.8
170°	1351.8	1350.1	1350.1	1350.1	1350.1	1350.1	1350.5	1351.4	1352.3	1353.2	1354.1
172.5°	1356.8	1354.9	1354.7	1354.5	1354.3	1354.2	1354.6	1355.7	1356.9	1357.9	1359.0
175°	1362.8	1361.2	1361.0	1360.8	1360.5	1360.3	1360.8	1361.9	1363.0	1364.1	1365.2
177.5°	1365.1	1363.6	1363.4	1363.3	1363.1	1362.9	1363.3	1364.2	1365.1	1365.9	1366.9
180°	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5
2.5°	908.5	911.9	916.3	922.7	927.7	932.0	932.9	934.2	937.3	942.5	946.5
5°	914.4	923.3	937.6	951.5	966.6	979.0	990.6	998.8	1006.4	1022.7	1035.8
7.5°	912.5	932.3	954.7	979.8	1005.0	1029.6	1052.3	1072.7	1093.0	1116.6	1143.6
10°	911.3	934.5	964.6	996.7	1032.0	1066.4	1099.6	1125.6	1155.8	1182.9	1217.3
12.5°	905.4	938.9	974.9	1015.9	1059.2	1098.9	1142.7	1178.5	1212.9	1252.1	1292.1
15°	897.8	938.4	984.0	1038.5	1104.3	1152.3	1197.1	1259.4	1301.9	1344.5	1401.8
17.5°	883.7	933.3	990.4	1061.2	1116.1	1180.5	1248.0	1297.3	1354.5	1414.5	1466.3
20°	872.6	930.3	994.1	1063.7	1133.7	1203.8	1269.1	1327.9	1387.0	1456.3	1498.8
22.5°	861.5	918.5	984.8	1058.7	1134.0	1207.7	1281.7	1350.8	1417.3	1487.2	1541.6
25°	837.8	905.4	977.4	1052.9	1127.1	1208.3	1296.6	1373.5	1455.9	1527.8	1579.3
27.5°	813.9	875.9	947.5	1024.0	1106.5	1202.5	1306.3	1393.8	1476.3	1527.8	1544.0
30°	792.1	857.9	923.6	1001.4	1090.8	1197.9	1308.2	1408.4	1476.0	1498.4	1481.8
32.5°	770.2	829.8	894.9	974.5	1069.4	1186.5	1310.6	1399.7	1440.5	1423.3	1355.5
35°	731.4	785.2	848.3	928.0	1037.0	1180.1	1300.4	1360.8	1350.7	1253.9	1126.3
37.5°	689.9	733.8	792.1	875.5	1003.4	1155.0	1256.5	1265.4	1178.3	1029.9	882.4
40°	657.1	696.6	756.6	843.6	977.4	1130.2	1212.2	1176.3	1041.3	876.1	753.1
42.5°	625.3	658.5	716.3	810.2	952.7	1096.5	1146.3	1067.9	912.2	756.0	644.2
45°	571.3	602.6	660.7	757.0	902.0	1032.0	1025.4	889.3	733.4	607.6	514.8
47.5°	520.1	547.4	602.0	700.2	842.5	935.2	873.7	728.9	596.6	495.8	429.6
50°	483.9	511.0	565.1	662.2	794.9	862.5	774.8	635.1	514.0	430.5	377.9
52.5°	449.2	475.6	525.2	619.8	737.3	777.8	683.5	554.0	453.1	381.0	335.8
55°	400.7	420.8	465.3	555.8	643.6	652.9	557.3	449.1	365.9	315.6	284.7
57.5°	351.3	368.6	412.5	484.6	546.2	541.4	450.8	357.2	301.1	263.8	241.4
60°	319.1	336.1	374.8	436.7	483.1	466.9	383.7	308.3	260.3	232.9	215.1
62.5°	289.1	302.4	338.6	383.7	417.2	398.8	328.0	265.6	227.5	204.4	190.3
65°	245.6	256.4	285.5	309.0	327.6	309.8	251.1	207.7	180.3	164.0	154.3
67.5°	204.3	211.2	229.5	238.0	251.2	231.7	188.7	159.8	144.1	130.5	123.7
70°	178.3	183.4	193.0	200.0	203.5	183.4	151.6	130.4	117.2	107.6	103.3
72.5°	152.3	156.7	158.6	164.4	162.6	143.7	121.9	105.0	95.5	89.0	83.5
75°	116.4	118.4	116.4	114.1	109.1	95.9	80.9	72.3	65.3	62.3	60.4
77.5°	84.8	84.2	81.6	78.0	69.4	61.1	53.0	50.1	47.2	45.4	44.8
80°	65.3	63.8	61.5	55.7	48.4	42.5	40.6	38.7	37.6	35.5	35.2
82.5°	48.7	47.8	43.8	39.0	33.8	31.1	29.5	28.8	27.6	26.7	26.6
85°	26.0	24.7	20.5	17.8	17.1	16.3	15.9	15.9	14.3	13.9	13.9
87.5°	9.0	7.6	7.8	7.3	7.8	7.8	8.7	8.6	8.9	9.4	9.0
90°	3.2	5.6	7.8	10.0	12.6	15.6	18.5	21.4	24.3	25.2	26.2
92.5°	18.3	17.6	17.0	16.4	17.2	19.4	21.5	23.7	26.0	27.4	28.9
95°	52.6	43.4	34.1	24.9	21.5	24.0	26.5	29.0	31.4	33.0	34.6
97.5°	120.2	116.0	111.9	107.8	97.6	81.4	65.1	48.9	32.6	34.4	36.3
100°	175.9	180.5	184.9	189.5	174.1	139.0	103.8	68.7	33.4	35.2	37.1
102.5°	228.2	231.5	234.7	237.9	220.4	182.0	143.6	105.1	66.8	61.2	55.5
105°	304.8	307.2	309.7	312.1	303.3	283.0	262.7	242.5	222.2	182.3	142.4
107.5°	385.8	387.8	389.8	391.7	394.4	397.6	400.7	403.9	407.2	377.9	348.6
110°	440.0	441.8	443.6	445.4	447.6	450.0	452.5	454.9	457.5	450.0	442.6



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	491.7	493.3	495.0	496.7	498.7	501.1	503.6	506.1	508.6	508.7	508.9
115°	568.4	569.7	571.1	572.4	574.1	576.1	578.1	580.2	582.2	584.5	586.7
117.5°	643.1	644.8	646.4	648.1	649.4	650.6	651.6	652.6	653.6	655.4	657.2
120°	689.7	691.8	693.8	695.8	697.2	697.8	698.5	699.2	699.8	701.7	703.5
122.5°	736.4	738.1	739.7	741.4	742.7	743.6	744.4	745.3	746.1	747.4	748.6
125°	801.1	802.8	804.7	806.5	807.9	808.7	809.6	810.5	811.4	811.9	812.3
127.5°	863.5	865.4	867.2	869.0	870.4	871.5	872.6	873.6	874.7	875.5	876.2
130°	902.5	904.3	906.2	908.0	909.3	910.2	911.1	912.0	912.9	913.8	914.7
132.5°	939.9	941.6	943.4	945.2	946.5	947.3	948.0	948.7	949.4	950.3	951.2
135°	996.4	997.7	999.1	1000.5	1001.6	1002.5	1003.4	1004.3	1005.2	1005.8	1006.5
137.5°	1045.4	1047.1	1048.8	1050.6	1051.7	1052.2	1052.7	1053.2	1053.7	1054.7	1055.8
140°	1077.5	1078.9	1080.3	1081.6	1082.6	1083.3	1084.0	1084.6	1085.3	1086.2	1087.1
142.5°	1107.5	1108.9	1110.2	1111.7	1112.7	1113.3	1114.0	1114.7	1115.3	1116.1	1116.8
145°	1149.7	1151.3	1153.0	1154.5	1155.5	1156.0	1156.4	1156.9	1157.3	1157.8	1158.2
147.5°	1188.8	1189.8	1190.8	1191.9	1192.7	1193.1	1193.6	1194.0	1194.5	1194.9	1195.4
150°	1212.7	1213.5	1214.2	1214.8	1215.4	1215.8	1216.3	1216.7	1217.2	1217.6	1218.1
152.5°	1234.4	1234.7	1235.0	1235.3	1235.6	1235.9	1236.1	1236.4	1236.7	1237.5	1238.3
155°	1264.4	1263.9	1263.5	1263.0	1262.9	1263.1	1263.3	1263.6	1263.8	1265.0	1266.1
157.5°	1288.8	1288.7	1288.7	1288.6	1288.5	1288.3	1288.0	1287.8	1287.6	1288.9	1290.3
160°	1303.1	1302.9	1302.7	1302.5	1302.2	1302.0	1301.8	1301.6	1301.4	1302.7	1304.0
162.5°	1316.6	1316.1	1315.5	1314.8	1314.4	1314.2	1314.0	1313.7	1313.5	1315.0	1316.6
165°	1333.1	1332.5	1331.8	1331.1	1330.7	1330.4	1330.2	1330.0	1329.8	1331.6	1333.3
167.5°	1345.9	1345.0	1344.1	1343.2	1342.7	1342.7	1342.7	1342.7	1342.7	1344.5	1346.4
170°	1353.2	1352.3	1351.4	1350.5	1350.1	1350.1	1350.1	1350.1	1350.1	1351.8	1353.6
172.5°	1357.9	1356.9	1355.7	1354.6	1354.2	1354.3	1354.5	1354.7	1354.9	1356.8	1358.6
175°	1364.1	1363.0	1361.9	1360.8	1360.3	1360.5	1360.8	1361.0	1361.2	1362.8	1364.3
177.5°	1365.9	1365.1	1364.2	1363.3	1362.9	1363.1	1363.3	1363.4	1363.6	1365.1	1366.5
180°	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	903.5	903.5	903.5	903.5	903.5	903.5	903.5
2.5°	953.1	953.1	954.3	959.0	959.6	963.6	962.3
5°	1047.4	1054.8	1057.5	1069.1	1076.1	1079.1	1073.0
7.5°	1162.9	1183.6	1193.5	1205.6	1216.3	1219.6	1211.1
10°	1247.1	1268.7	1286.9	1298.1	1308.6	1315.5	1324.4
12.5°	1328.4	1355.0	1372.3	1388.2	1398.9	1407.8	1409.2
15°	1416.8	1457.0	1487.6	1510.1	1521.3	1527.1	1524.8
17.5°	1506.0	1543.3	1565.1	1587.9	1603.5	1604.3	1604.8
20°	1556.5	1592.9	1618.0	1635.0	1652.4	1651.6	1655.5
22.5°	1590.2	1618.8	1638.1	1650.4	1656.4	1653.5	1654.3
25°	1606.0	1614.5	1611.0	1591.2	1586.3	1568.1	1571.1
27.5°	1524.6	1484.4	1442.8	1389.2	1347.0	1313.2	1314.9
30°	1414.1	1342.9	1261.7	1193.7	1132.6	1115.5	1079.1
32.5°	1259.7	1153.0	1057.8	994.4	941.9	927.7	896.0
35°	997.9	894.2	796.4	737.6	714.4	682.0	681.6
37.5°	775.7	684.4	632.7	588.5	565.4	545.7	543.8
40°	652.6	581.4	542.3	510.6	487.8	473.0	469.6
42.5°	566.5	509.0	472.3	452.7	435.2	427.6	421.9
45°	462.6	423.9	398.4	380.6	372.4	366.7	363.6
47.5°	387.0	361.0	343.7	331.8	325.2	319.1	320.7
50°	345.8	324.6	311.7	300.5	295.5	291.2	291.6
52.5°	312.7	293.6	283.3	275.2	268.9	265.9	264.4
55°	265.4	253.4	242.9	237.1	233.6	229.3	228.2
57.5°	226.3	217.0	208.5	202.0	201.2	197.0	197.5
60°	200.4	192.6	185.6	182.2	179.5	176.0	177.1
62.5°	179.0	172.5	166.1	163.3	160.6	158.0	158.5
65°	146.6	140.4	136.5	135.0	133.8	132.7	131.5
67.5°	116.8	113.0	110.6	107.2	104.9	104.5	103.3
70°	98.3	93.2	89.0	84.7	83.5	83.1	83.5
72.5°	78.8	75.5	74.4	72.3	72.1	71.1	71.8
75°	59.2	58.1	57.3	55.7	55.7	55.7	55.7
77.5°	43.6	42.9	42.5	42.1	41.8	41.2	41.2
80°	34.0	33.6	32.9	32.9	32.5	32.9	32.5
82.5°	25.7	25.7	24.8	24.8	24.4	24.2	24.4
85°	13.1	12.7	13.5	12.7	13.1	12.4	13.1
87.5°	9.1	9.3	9.1	9.2	9.0	9.7	9.2
90°	27.1	28.0	28.6	29.1	29.5	30.0	30.4
92.5°	30.3	31.7	32.6	32.8	33.1	33.4	33.6
95°	36.2	37.8	38.6	38.6	38.6	38.6	38.6
97.5°	38.1	39.9	40.9	41.1	41.3	41.6	41.8
100°	38.9	40.7	41.7	41.9	42.1	42.4	42.6
102.5°	50.0	44.3	41.8	42.2	42.6	43.0	43.4
105°	102.4	62.5	42.8	43.3	43.7	44.1	44.6
107.5°	319.4	290.1	260.4	230.4	200.4	170.3	140.2
110°	435.2	427.7	407.9	375.7	343.4	311.1	278.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	509.0	509.1	505.7	499.0	492.2	485.3	478.6
115°	589.0	591.3	592.8	593.7	594.6	595.5	596.4
117.5°	659.0	660.9	661.9	662.0	662.2	662.4	662.6
120°	705.3	707.1	708.0	708.0	708.0	708.0	708.0
122.5°	749.9	751.1	751.9	752.0	752.2	752.5	752.7
125°	812.8	813.2	813.7	814.2	814.6	815.1	815.5
127.5°	876.9	877.7	877.8	877.3	876.9	876.5	876.0
130°	915.5	916.5	916.8	916.3	915.8	915.3	914.9
132.5°	952.1	953.0	953.1	952.5	951.9	951.3	950.6
135°	1007.2	1007.8	1007.8	1007.2	1006.5	1005.8	1005.2
137.5°	1056.9	1058.0	1058.3	1057.8	1057.4	1056.9	1056.5
140°	1088.0	1088.9	1089.1	1088.7	1088.2	1087.8	1087.3
142.5°	1117.5	1118.2	1118.2	1117.6	1117.0	1116.4	1115.7
145°	1158.7	1159.1	1159.3	1159.3	1159.3	1159.3	1159.3
147.5°	1195.8	1196.3	1196.0	1195.0	1193.9	1192.9	1191.8
150°	1218.5	1219.0	1218.9	1218.2	1217.5	1216.9	1216.2
152.5°	1239.1	1239.9	1239.8	1238.7	1237.7	1236.7	1235.7
155°	1267.2	1268.4	1268.2	1266.9	1265.6	1264.1	1262.8
157.5°	1291.6	1292.9	1292.7	1291.0	1289.3	1287.5	1285.8
160°	1305.5	1306.8	1306.7	1305.0	1303.5	1301.9	1300.3
162.5°	1318.2	1319.7	1319.7	1318.4	1317.0	1315.6	1314.1
165°	1335.1	1337.0	1337.1	1335.5	1333.9	1332.3	1330.8
167.5°	1348.2	1350.0	1350.0	1348.2	1346.4	1344.5	1342.7
170°	1355.4	1357.3	1357.3	1355.4	1353.6	1351.8	1350.1
172.5°	1360.3	1362.1	1362.0	1360.1	1358.1	1356.0	1354.1
175°	1365.9	1367.6	1367.5	1365.6	1363.8	1362.0	1360.2
177.5°	1368.0	1369.4	1369.3	1367.5	1365.6	1363.8	1362.0
180°	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2

(END OF REPORT)