

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: P332422-940

Luminaire Tested: **S123RDIW-S560D1320U940-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332422-940  
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-S560D1320U940-4F0-1E-UDD-A  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1320 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6697.2 lumens  
Efficiency: N/A  
Efficacy: 124.5 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

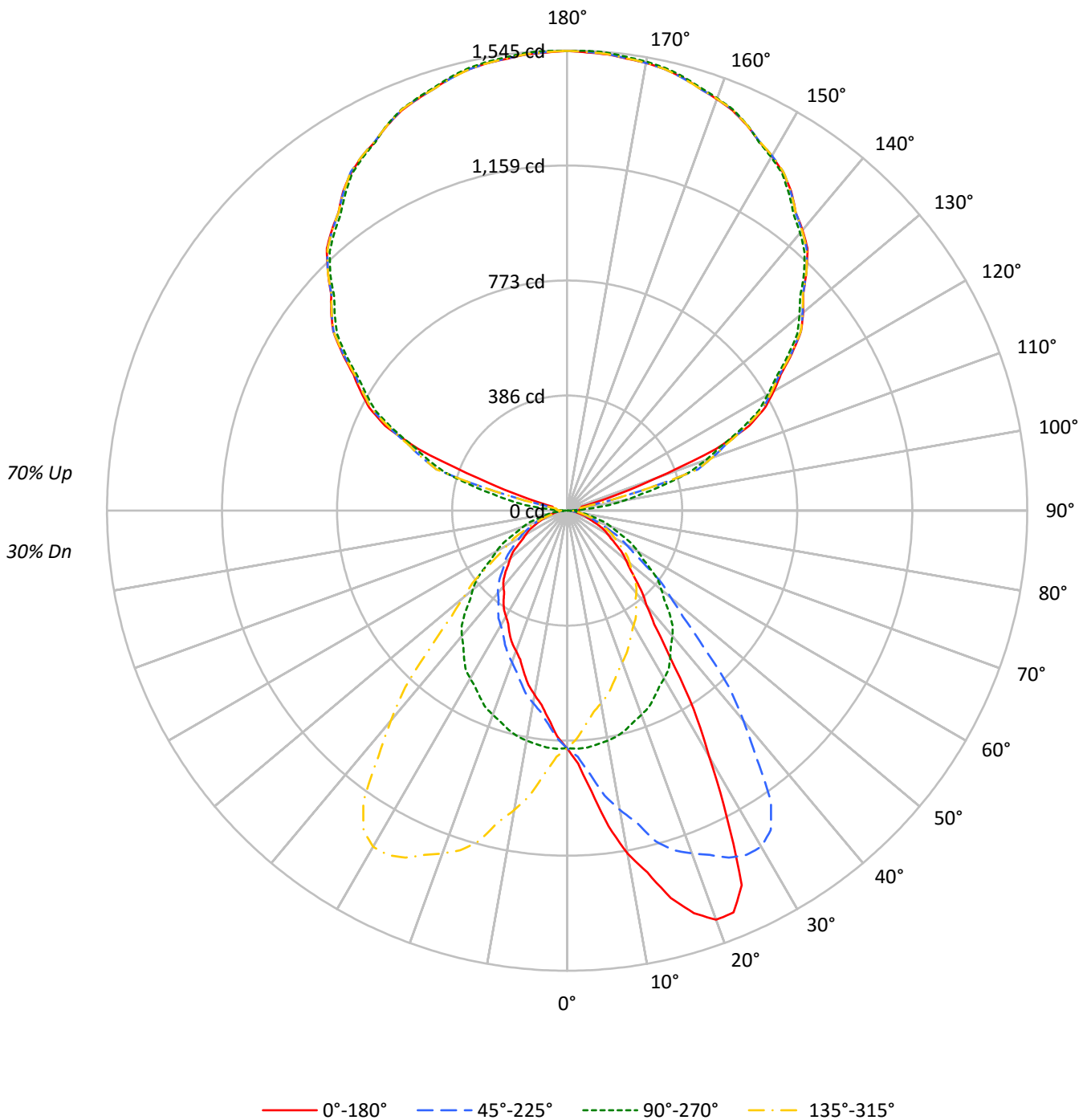
Input Watts (W): 53.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	38	38	38	30
1	94	90	86	83	84	80	77	75	64	62	60	48	47	46	34	33	32	26
2	85	79	73	68	76	71	66	62	56	53	50	43	40	39	30	29	28	22
3	78	69	62	57	70	62	57	52	50	46	42	38	35	33	27	25	24	19
4	72	61	54	48	64	55	49	44	44	40	36	34	31	28	24	22	21	17
5	66	55	47	41	59	50	43	38	40	35	31	30	27	25	22	20	18	15
6	60	49	41	36	54	44	38	33	36	31	27	28	24	22	20	18	16	13
7	56	44	37	31	50	40	34	29	32	28	24	25	22	19	18	16	15	12
8	52	40	33	28	46	36	30	26	30	25	21	23	20	17	17	15	13	11
9	48	37	29	25	43	33	27	23	27	22	19	21	18	15	16	13	12	10
10	45	33	27	22	40	30	24	20	25	20	17	19	16	14	14	12	11	9

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	8587	8587	8587	8587
5°	10237	8625	7595	8625
10°	12783	8575	6862	8575
15°	15004	8487	6257	8487
20°	16745	8356	5743	8356
25°	16476	8219	5428	8219
30°	11844	8090	5102	8090
35°	7908	7926	4892	7926
40°	5826	7727	4675	7727
45°	4886	7377	4460	7377
50°	4312	6921	4163	6921
55°	3781	6397	3755	6397
60°	3367	5896	3442	5896
65°	2957	5359	3202	5359
70°	2319	4881	2924	4881
75°	2046	4263	2670	4263
80°	1779	3620	2628	3620
85°	1433	2902	2791	2902



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.5	1.2
10°-20°	245.1	3.7
20°-30°	385.1	5.7
30°-40°	401.8	6.0
40°-50°	343.8	5.1
50°-60°	262.1	3.9
60°-70°	168.0	2.5
70°-80°	80.8	1.2
80°-90°	25.7	0.4
90°-100°	56.1	0.8
100°-110°	267.4	4.0
110°-120°	642.3	9.6
120°-130°	818.0	12.2
130°-140°	874.0	13.0
140°-150°	817.3	12.2
150°-160°	659.2	9.8
160°-170°	425.5	6.4
170°-180°	146.6	2.2
0°-30°	708.7	10.6
0°-40°	1110.4	16.6
0°-60°	1716.3	25.6
0°-90°	1990.8	29.7
90°-120°	965.9	14.4
90°-150°	3475.0	51.9
90°-180°	4706.0	70.3
0°-180°	6697.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	798	798	798	798	798	
5°	947	798	703	798	947	98
15°	1346	762	562	762	1346	382
25°	1387	692	457	692	1387	596
35°	602	603	372	603	602	395
45°	321	485	293	485	321	252
55°	202	341	200	341	202	182
65°	116	210	126	210	116	114
75°	49	102	64	102	49	53
85°	12	24	23	24	12	14
90°	34	1	34	1	34	16
95°	44	70	44	70	44	36
105°	50	342	50	342	50	115
115°	674	641	674	641	674	623
125°	922	904	922	904	922	823
135°	1136	1125	1136	1125	1136	876
145°	1310	1298	1310	1298	1310	818
155°	1428	1430	1428	1430	1428	658
165°	1504	1508	1504	1508	1504	425
175°	1538	1543	1538	1543	1538	146
180°	1543	1543	1543	1543	1543	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8
2.5°	849.7	850.9	847.3	846.8	842.7	841.6	841.6	835.8	832.2	827.6	824.9
5°	947.4	952.9	950.2	944.1	933.8	931.4	924.9	914.6	903.0	888.7	881.9
7.5°	1069.4	1076.9	1074.0	1064.5	1053.8	1045.1	1026.8	1009.8	986.0	965.1	947.2
10°	1169.5	1161.5	1155.5	1146.2	1136.3	1120.3	1101.2	1074.9	1044.5	1020.6	993.9
12.5°	1244.3	1243.0	1235.2	1225.7	1211.7	1196.5	1173.0	1140.9	1105.6	1071.0	1040.6
15°	1346.4	1348.4	1343.3	1333.4	1313.6	1286.6	1251.1	1237.8	1187.2	1149.6	1112.1
17.5°	1417.0	1416.6	1415.9	1402.1	1382.0	1362.7	1329.8	1294.8	1249.0	1196.1	1145.5
20°	1461.8	1458.4	1459.1	1443.7	1428.7	1406.5	1374.4	1323.5	1285.9	1224.8	1172.5
22.5°	1460.7	1460.0	1462.6	1457.3	1446.4	1429.4	1404.2	1361.2	1313.2	1251.5	1192.8
25°	1387.3	1384.6	1400.7	1405.1	1422.5	1425.6	1418.1	1394.5	1349.1	1285.6	1212.8
27.5°	1161.1	1159.6	1189.4	1226.6	1274.0	1310.7	1346.2	1363.3	1349.1	1303.6	1230.7
30°	952.9	985.0	1000.1	1054.0	1114.1	1185.8	1248.7	1308.4	1323.1	1303.3	1243.6
32.5°	791.1	819.1	831.7	878.1	934.1	1018.1	1112.3	1196.9	1256.8	1271.9	1235.9
35°	601.8	602.2	630.8	651.3	703.2	789.6	881.2	994.5	1107.2	1192.7	1201.6
37.5°	480.2	481.9	499.3	519.7	558.7	604.3	684.9	779.2	909.4	1040.4	1117.3
40°	414.6	417.7	430.7	450.8	478.8	513.4	576.2	664.9	773.6	919.4	1038.7
42.5°	372.6	377.6	384.2	399.8	417.1	449.4	500.2	568.8	667.5	805.5	943.0
45°	321.0	323.8	328.9	336.1	351.8	374.3	408.5	454.6	536.5	647.6	785.2
47.5°	283.2	281.8	287.1	293.0	303.4	318.8	341.7	379.3	437.8	526.8	643.6
50°	257.5	257.2	260.9	265.4	275.3	286.6	305.3	333.7	380.1	453.9	560.8
52.5°	233.4	234.8	237.5	243.0	250.1	259.2	276.1	296.5	336.4	400.1	489.2
55°	201.5	202.5	206.3	209.4	214.5	223.7	234.3	251.4	278.7	323.1	396.5
57.5°	174.4	174.0	177.6	178.3	184.1	191.6	199.8	213.1	232.9	265.9	315.4
60°	156.4	155.4	158.5	160.9	163.9	170.0	176.9	189.9	205.6	229.9	272.2
62.5°	140.0	139.6	141.8	144.2	146.7	152.3	158.1	168.0	180.5	200.9	234.5
65°	116.1	117.2	118.2	119.2	120.6	123.9	129.5	136.3	144.8	159.2	183.4
67.5°	91.2	92.3	92.6	94.7	97.6	99.8	103.2	109.2	115.2	127.2	141.1
70°	73.7	73.4	73.7	74.8	78.6	82.3	86.8	91.2	95.0	103.5	115.1
72.5°	63.4	62.8	63.7	63.8	65.7	66.7	69.6	73.7	78.6	84.4	92.7
75°	49.2	49.2	49.2	49.2	50.6	51.3	52.3	53.3	55.0	57.7	63.8
77.5°	36.4	36.4	36.9	37.2	37.5	37.9	38.5	39.6	40.1	41.6	44.2
80°	28.7	29.1	28.7	29.1	29.1	29.7	30.1	31.1	31.4	33.2	34.2
82.5°	21.6	21.4	21.6	21.9	21.9	22.6	22.6	23.5	23.5	24.3	25.4
85°	11.6	11.0	11.6	11.2	11.9	11.2	11.6	12.3	12.3	12.7	14.0
87.5°	9.6	10.1	9.5	9.5	9.5	9.6	9.4	9.2	9.5	9.1	8.6
90°	34.4	33.9	33.3	32.9	32.4	31.6	30.6	29.5	28.5	27.6	24.2
92.5°	38.1	37.7	37.5	37.2	36.8	35.8	34.2	32.6	30.9	29.3	26.8
95°	43.6	43.6	43.6	43.6	43.6	42.7	40.9	39.1	37.4	35.6	32.7
97.5°	47.3	47.0	46.7	46.5	46.2	45.0	43.1	41.0	39.0	36.9	55.3
100°	48.2	47.9	47.6	47.3	47.2	46.0	44.0	41.9	39.9	37.8	77.6
102.5°	49.0	48.6	48.2	47.7	47.3	50.2	56.4	62.8	69.1	75.4	118.9
105°	50.5	49.9	49.4	49.0	48.4	70.7	115.8	160.9	206.0	251.1	274.0
107.5°	158.5	192.4	226.4	260.5	294.4	328.0	361.1	394.1	427.1	460.2	456.6
110°	315.3	351.8	388.2	424.6	461.0	483.5	491.9	500.2	508.7	517.1	514.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	541.0	548.7	556.3	564.0	571.8	575.5	575.3	575.2	575.1	574.9	572.1
115°	674.2	673.2	672.2	671.1	670.1	668.3	665.8	663.3	660.7	658.2	655.9
117.5°	748.9	748.8	748.5	748.3	748.1	747.0	744.9	743.0	740.9	738.9	737.7
120°	800.3	800.3	800.3	800.3	800.3	799.3	797.3	795.2	793.2	791.1	790.4
122.5°	850.8	850.6	850.3	850.2	850.0	849.2	847.7	846.3	844.9	843.5	842.5
125°	921.9	921.3	920.9	920.3	919.8	919.3	918.8	918.3	917.7	917.3	916.2
127.5°	990.2	990.7	991.2	991.8	992.2	992.1	991.2	990.4	989.6	988.8	987.6
130°	1034.2	1034.7	1035.3	1035.7	1036.3	1036.0	1035.0	1033.9	1033.0	1031.9	1030.9
132.5°	1074.6	1075.3	1076.0	1076.7	1077.5	1077.3	1076.3	1075.2	1074.2	1073.2	1072.4
135°	1136.3	1137.0	1137.8	1138.5	1139.3	1139.3	1138.5	1137.8	1137.0	1136.3	1135.2
137.5°	1194.3	1194.8	1195.3	1195.8	1196.3	1196.0	1194.7	1193.6	1192.3	1191.1	1190.5
140°	1229.1	1229.7	1230.1	1230.7	1231.2	1230.9	1229.9	1228.9	1227.9	1226.8	1226.1
142.5°	1261.2	1261.9	1262.7	1263.4	1264.1	1264.1	1263.2	1262.4	1261.6	1260.8	1260.0
145°	1310.5	1310.5	1310.5	1310.5	1310.5	1310.3	1309.7	1309.3	1308.8	1308.2	1307.8
147.5°	1347.2	1348.4	1349.6	1350.8	1351.9	1352.3	1351.7	1351.2	1350.8	1350.2	1349.7
150°	1374.8	1375.6	1376.3	1377.1	1377.8	1378.0	1377.4	1376.9	1376.4	1375.9	1375.4
152.5°	1396.8	1397.9	1399.1	1400.3	1401.5	1401.6	1400.7	1399.7	1398.8	1397.9	1397.6
155°	1427.5	1429.1	1430.6	1432.1	1433.6	1433.8	1432.4	1431.2	1429.9	1428.6	1428.4
157.5°	1453.4	1455.4	1457.4	1459.4	1461.3	1461.6	1460.1	1458.6	1457.0	1455.5	1455.7
160°	1469.9	1471.7	1473.5	1475.2	1477.0	1477.2	1475.7	1474.1	1472.6	1471.1	1471.3
162.5°	1485.5	1487.1	1488.7	1490.2	1491.8	1491.7	1490.0	1488.3	1486.6	1484.8	1485.1
165°	1504.3	1506.1	1507.9	1509.7	1511.4	1511.4	1509.3	1507.3	1505.2	1503.2	1503.4
167.5°	1517.9	1519.9	1522.0	1523.9	1526.0	1526.0	1523.9	1522.0	1519.9	1517.9	1517.9
170°	1526.1	1528.1	1530.2	1532.2	1534.3	1534.3	1532.2	1530.2	1528.1	1526.1	1526.1
172.5°	1530.7	1532.9	1535.2	1537.4	1539.6	1539.8	1537.8	1535.7	1533.7	1531.6	1531.4
175°	1537.6	1539.6	1541.7	1543.7	1545.7	1545.9	1544.1	1542.3	1540.5	1538.7	1538.5
177.5°	1539.6	1541.7	1543.7	1545.8	1547.8	1548.0	1546.4	1544.7	1543.1	1541.5	1541.2
180°	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8
2.5°	823.8	823.0	819.1	814.8	809.0	805.2	802.2	800.6	795.7	789.6	785.5
5°	874.7	864.4	853.5	840.2	827.9	815.3	807.4	798.2	786.9	774.3	765.4
7.5°	929.2	909.1	887.4	865.1	843.0	823.2	805.7	790.8	772.8	754.7	742.0
10°	971.0	941.6	911.2	880.1	851.8	825.2	804.7	784.5	763.0	742.2	726.5
12.5°	1009.0	970.4	935.3	897.1	860.9	829.0	799.5	775.8	749.9	727.7	709.8
15°	1057.0	1017.4	975.1	917.0	868.9	828.6	792.7	761.6	730.2	702.9	685.5
17.5°	1102.0	1042.4	985.5	937.0	874.5	824.1	780.3	743.2	708.7	679.8	658.3
20°	1120.6	1062.9	1001.0	939.2	877.8	821.4	770.5	729.5	693.7	660.8	641.1
22.5°	1131.8	1066.4	1001.3	934.9	869.6	811.0	760.7	715.6	676.7	645.6	621.2
25°	1144.9	1066.9	995.2	929.7	863.1	799.5	739.8	692.0	650.0	616.8	590.8
27.5°	1153.4	1061.8	977.0	904.2	836.6	773.4	718.6	667.9	625.3	590.2	562.4
30°	1155.1	1057.7	963.1	884.2	815.6	757.5	699.5	650.9	605.9	568.6	542.7
32.5°	1157.3	1047.7	944.3	860.5	790.2	732.7	680.1	633.7	587.5	550.9	524.4
35°	1148.3	1042.1	915.7	819.4	749.0	693.3	645.9	603.2	557.8	522.2	495.3
37.5°	1109.5	1019.8	886.0	773.0	699.5	647.9	609.2	572.0	530.4	492.0	466.6
40°	1070.4	998.0	863.1	744.9	668.1	615.1	580.2	549.9	509.6	473.7	446.4
42.5°	1012.2	968.2	841.2	715.4	632.5	581.5	552.1	523.6	488.3	451.8	426.1
45°	905.4	911.2	796.5	668.4	583.4	532.1	504.4	484.6	453.3	423.2	396.9
47.5°	771.5	825.8	744.0	618.3	531.5	483.4	459.2	441.9	420.8	391.3	367.3
50°	684.1	761.6	701.9	584.7	499.0	451.2	427.3	413.3	394.8	371.6	348.7
52.5°	603.5	686.8	651.0	547.2	463.8	420.0	396.6	385.1	370.5	348.7	328.0
55°	492.1	576.5	568.3	490.8	410.9	371.6	353.8	340.9	330.9	314.6	298.2
57.5°	398.1	478.0	482.3	427.9	364.3	325.5	310.2	300.4	293.9	281.6	266.4
60°	338.9	412.2	426.6	385.6	330.9	296.8	281.8	273.9	268.8	258.9	247.3
62.5°	289.6	352.1	368.4	338.9	299.0	267.0	255.3	247.7	244.2	235.7	225.4
65°	221.7	273.6	289.3	272.9	252.1	226.4	216.9	210.4	207.3	202.5	195.0
67.5°	166.7	204.6	221.8	210.2	202.7	186.5	180.4	176.9	174.2	170.9	164.6
70°	133.8	161.9	179.7	176.6	170.4	161.9	157.5	155.1	152.3	149.6	144.1
72.5°	107.6	126.9	143.6	145.2	140.1	138.4	134.5	133.5	131.8	128.6	125.6
75°	71.4	84.7	96.3	100.8	102.8	104.5	102.8	102.5	102.1	99.4	97.6
77.5°	46.8	53.9	61.3	68.8	72.1	74.4	74.9	76.2	75.3	73.8	73.0
80°	35.8	37.5	42.7	49.2	54.3	56.4	57.7	58.4	58.1	57.7	56.4
82.5°	26.0	27.5	29.9	34.4	38.7	42.2	43.0	42.8	43.6	43.8	42.7
85°	14.0	14.4	15.1	15.7	18.1	21.8	22.9	23.5	24.3	24.3	22.2
87.5°	8.6	7.6	7.5	7.0	7.2	7.0	8.1	9.0	9.7	9.2	9.7
90°	20.9	17.6	14.3	11.3	8.8	6.2	3.7	1.2	3.7	6.2	8.8
92.5°	24.3	21.8	19.4	18.5	19.2	19.9	20.6	21.3	20.6	19.9	19.2
95°	30.0	27.1	24.3	28.2	38.6	49.0	59.5	69.9	59.5	49.0	38.6
97.5°	73.7	91.9	110.3	121.8	126.5	131.2	135.9	140.5	135.9	131.2	126.5
100°	117.3	157.1	196.8	214.2	209.0	203.9	198.9	193.8	198.9	203.9	209.0
102.5°	162.3	205.7	249.1	269.0	265.3	261.6	258.0	254.3	258.0	261.6	265.3
105°	296.9	319.9	342.9	352.8	350.1	347.3	344.5	341.7	344.5	347.3	350.1
107.5°	453.0	449.4	445.8	442.8	440.6	438.4	436.1	433.9	436.1	438.4	440.6
110°	511.5	508.7	505.9	503.5	501.4	499.4	497.4	495.3	497.4	499.4	501.4





TEST NUMBER: P332422-940

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	569.3	566.5	563.7	561.3	559.5	557.7	555.9	554.0	555.9	557.7	559.5
115°	653.5	651.2	649.0	647.0	645.5	644.0	642.5	641.0	642.5	644.0	645.5
117.5°	736.6	735.3	734.1	732.6	730.8	728.9	727.0	725.1	727.0	728.9	730.8
120°	789.6	788.8	788.1	786.6	784.3	781.9	779.7	777.4	779.7	781.9	784.3
122.5°	841.5	840.5	839.5	838.1	836.2	834.4	832.5	830.6	832.5	834.4	836.2
125°	915.3	914.2	913.2	911.7	909.6	907.6	905.5	903.5	905.5	907.6	909.6
127.5°	986.4	985.2	983.9	982.3	980.3	978.2	976.2	974.1	976.2	978.2	980.3
130°	1029.9	1028.9	1027.9	1026.4	1024.3	1022.3	1020.2	1018.2	1020.2	1022.3	1024.3
132.5°	1071.6	1070.8	1070.0	1068.5	1066.5	1064.4	1062.4	1060.3	1062.4	1064.4	1066.5
135°	1134.3	1133.2	1132.2	1131.0	1129.4	1127.8	1126.3	1124.8	1126.3	1127.8	1129.4
137.5°	1190.0	1189.4	1188.8	1187.6	1185.6	1183.7	1181.8	1179.8	1181.8	1183.7	1185.6
140°	1225.3	1224.6	1223.8	1222.6	1221.1	1219.6	1218.1	1216.6	1218.1	1219.6	1221.1
142.5°	1259.3	1258.5	1257.8	1256.6	1255.1	1253.6	1252.0	1250.4	1252.0	1253.6	1255.1
145°	1307.2	1306.7	1306.2	1305.1	1303.3	1301.5	1299.8	1298.0	1299.8	1301.5	1303.3
147.5°	1349.2	1348.7	1348.2	1347.4	1346.1	1345.0	1343.8	1342.6	1343.8	1345.0	1346.1
150°	1374.8	1374.4	1373.9	1373.2	1372.4	1371.7	1370.9	1370.2	1370.9	1371.7	1372.4
152.5°	1397.3	1397.0	1396.7	1396.3	1396.0	1395.6	1395.3	1394.9	1395.3	1395.6	1396.0
155°	1428.2	1427.9	1427.6	1427.7	1428.3	1428.8	1429.3	1429.8	1429.3	1428.8	1428.3
157.5°	1456.0	1456.3	1456.5	1456.6	1456.7	1456.8	1456.8	1456.9	1456.8	1456.8	1456.7
160°	1471.6	1471.9	1472.1	1472.3	1472.6	1472.8	1473.1	1473.4	1473.1	1472.8	1472.6
162.5°	1485.3	1485.6	1485.9	1486.3	1486.9	1487.6	1488.3	1489.0	1488.3	1487.6	1486.9
165°	1503.7	1504.0	1504.2	1504.7	1505.5	1506.2	1507.0	1507.8	1507.0	1506.2	1505.5
167.5°	1517.9	1517.9	1517.9	1518.3	1519.4	1520.4	1521.4	1522.4	1521.4	1520.4	1519.4
170°	1526.1	1526.1	1526.1	1526.6	1527.7	1528.7	1529.6	1530.7	1529.6	1528.7	1527.7
172.5°	1531.2	1531.0	1530.8	1531.3	1532.5	1533.7	1535.0	1536.2	1535.0	1533.7	1532.5
175°	1538.2	1537.9	1537.7	1538.2	1539.4	1540.8	1542.0	1543.3	1542.0	1540.8	1539.4
177.5°	1541.1	1540.9	1540.7	1541.1	1542.1	1543.1	1544.1	1545.2	1544.1	1543.1	1542.1
180°	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8
2.5°	784.2	780.6	778.2	772.7	769.2	765.4	761.5	763.9	763.7	763.4	763.4
5°	757.9	750.0	742.9	733.6	727.8	720.7	715.2	714.5	715.9	711.1	708.4
7.5°	731.8	721.0	710.9	700.7	689.9	681.3	675.9	673.4	669.9	667.0	663.9
10°	713.5	700.9	690.9	678.3	666.7	656.5	650.0	645.5	643.1	640.7	636.3
12.5°	694.6	682.2	669.6	655.3	644.3	632.4	627.6	622.6	618.0	615.3	609.2
15°	667.0	650.9	637.7	622.6	610.4	598.7	591.9	582.0	580.6	577.2	571.1
17.5°	639.4	622.0	603.6	592.5	578.5	566.5	556.1	552.8	543.0	539.3	534.0
20°	617.5	601.5	587.5	572.7	552.6	541.4	533.2	528.7	520.8	516.0	512.6
22.5°	598.7	582.3	566.1	549.0	532.4	519.8	513.7	506.8	502.6	495.9	492.1
25°	571.8	554.0	534.5	516.0	504.1	494.5	485.0	478.8	472.7	469.6	462.8
27.5°	540.5	521.9	503.7	489.7	475.0	465.6	456.9	451.5	444.1	438.9	435.2
30°	523.3	501.4	485.7	473.1	454.2	445.4	438.9	432.0	426.6	421.2	417.3
32.5°	503.3	483.3	468.4	452.8	438.4	428.7	420.3	414.3	409.7	404.5	400.7
35°	472.0	455.3	439.9	424.2	413.6	403.7	393.8	388.7	384.2	379.4	376.0
37.5°	443.7	428.1	413.5	398.6	385.5	377.4	369.4	365.5	359.5	356.3	352.8
40°	426.2	410.9	395.2	380.8	367.1	361.1	353.8	348.0	342.6	340.2	336.4
42.5°	407.2	391.7	378.5	363.0	351.9	343.5	336.9	330.6	326.5	323.0	320.8
45°	378.8	365.1	352.1	336.8	326.2	319.0	311.5	305.7	301.9	299.5	295.8
47.5°	351.2	337.6	324.4	311.0	300.8	292.6	285.1	281.0	276.1	273.1	270.5
50°	331.3	319.0	305.0	292.7	282.5	274.3	268.1	263.0	258.5	254.8	253.1
52.5°	313.0	299.9	287.8	276.3	265.6	256.2	250.7	245.2	241.9	237.6	235.6
55°	282.8	270.2	259.9	248.6	238.1	230.2	223.4	218.6	215.2	210.4	207.7
57.5°	254.4	243.1	230.9	221.1	210.2	203.6	197.9	191.4	187.3	183.5	180.8
60°	235.3	222.3	211.8	202.5	193.0	184.4	179.3	174.2	169.8	165.9	163.6
62.5°	215.3	204.0	194.0	184.0	175.2	167.7	161.8	157.5	153.6	151.2	148.8
65°	184.8	175.9	165.7	157.5	149.3	143.8	139.0	135.3	132.5	130.8	128.8
67.5°	156.7	148.0	139.1	131.0	125.6	121.4	118.2	115.0	113.7	111.5	110.1
70°	138.3	129.5	121.6	115.5	109.9	106.9	104.9	102.5	101.1	98.4	97.0
72.5°	118.4	112.0	106.3	101.2	96.8	94.1	91.5	88.5	86.3	83.4	81.9
75°	93.3	87.5	83.0	79.5	76.9	73.1	69.4	66.3	65.3	64.2	63.8
77.5°	69.0	65.4	62.2	59.3	55.9	53.1	52.3	51.6	51.5	50.9	50.9
80°	54.3	50.9	48.5	45.1	43.1	43.1	43.1	42.4	42.7	42.7	42.7
82.5°	40.4	37.2	35.9	34.7	34.3	34.6	34.6	34.7	34.5	35.0	34.8
85°	20.9	21.1	21.8	21.5	21.8	21.8	22.6	22.2	22.6	21.8	22.6
87.5°	9.9	11.3	12.2	13.2	14.1	14.5	15.0	15.2	15.7	15.9	16.1
90°	11.3	14.3	17.6	20.9	24.2	27.6	28.5	29.5	30.6	31.6	32.4
92.5°	18.5	19.4	21.8	24.3	26.8	29.3	30.9	32.6	34.2	35.8	36.8
95°	28.2	24.3	27.1	30.0	32.7	35.6	37.4	39.1	40.9	42.7	43.6
97.5°	121.8	110.3	91.9	73.7	55.3	36.9	39.0	41.0	43.1	45.0	46.2
100°	214.2	196.8	157.1	117.3	77.6	37.8	39.9	41.9	44.0	46.0	47.2
102.5°	269.0	249.1	205.7	162.3	118.9	75.4	69.1	62.8	56.4	50.2	47.3
105°	352.8	342.9	319.9	296.9	274.0	251.1	206.0	160.9	115.8	70.7	48.4
107.5°	442.8	445.8	449.4	453.0	456.6	460.2	427.1	394.1	361.1	328.0	294.4
110°	503.5	505.9	508.7	511.5	514.3	517.1	508.7	500.2	491.9	483.5	461.0



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	561.3	563.7	566.5	569.3	572.1	574.9	575.1	575.2	575.3	575.5	571.8
115°	647.0	649.0	651.2	653.5	655.9	658.2	660.7	663.3	665.8	668.3	670.1
117.5°	732.6	734.1	735.3	736.6	737.7	738.9	740.9	743.0	744.9	747.0	748.1
120°	786.6	788.1	788.8	789.6	790.4	791.1	793.2	795.2	797.3	799.3	800.3
122.5°	838.1	839.5	840.5	841.5	842.5	843.5	844.9	846.3	847.7	849.2	850.0
125°	911.7	913.2	914.2	915.3	916.2	917.3	917.7	918.3	918.8	919.3	919.8
127.5°	982.3	983.9	985.2	986.4	987.6	988.8	989.6	990.4	991.2	992.1	992.2
130°	1026.4	1027.9	1028.9	1029.9	1030.9	1031.9	1033.0	1033.9	1035.0	1036.0	1036.3
132.5°	1068.5	1070.0	1070.8	1071.6	1072.4	1073.2	1074.2	1075.2	1076.3	1077.3	1077.5
135°	1131.0	1132.2	1133.2	1134.3	1135.2	1136.3	1137.0	1137.8	1138.5	1139.3	1139.3
137.5°	1187.6	1188.8	1189.4	1190.0	1190.5	1191.1	1192.3	1193.6	1194.7	1196.0	1196.3
140°	1222.6	1223.8	1224.6	1225.3	1226.1	1226.8	1227.9	1228.9	1229.9	1230.9	1231.2
142.5°	1256.6	1257.8	1258.5	1259.3	1260.0	1260.8	1261.6	1262.4	1263.2	1264.1	1264.1
145°	1305.1	1306.2	1306.7	1307.2	1307.8	1308.2	1308.8	1309.3	1309.7	1310.3	1310.5
147.5°	1347.4	1348.2	1348.7	1349.2	1349.7	1350.2	1350.8	1351.2	1351.7	1352.3	1351.9
150°	1373.2	1373.9	1374.4	1374.8	1375.4	1375.9	1376.4	1376.9	1377.4	1378.0	1377.8
152.5°	1396.3	1396.7	1397.0	1397.3	1397.6	1397.9	1398.8	1399.7	1400.7	1401.6	1401.5
155°	1427.7	1427.6	1427.9	1428.2	1428.4	1428.6	1429.9	1431.2	1432.4	1433.8	1433.6
157.5°	1456.6	1456.5	1456.3	1456.0	1455.7	1455.5	1457.0	1458.6	1460.1	1461.6	1461.3
160°	1472.3	1472.1	1471.9	1471.6	1471.3	1471.1	1472.6	1474.1	1475.7	1477.2	1477.0
162.5°	1486.3	1485.9	1485.6	1485.3	1485.1	1484.8	1486.6	1488.3	1490.0	1491.7	1491.8
165°	1504.7	1504.2	1504.0	1503.7	1503.4	1503.2	1505.2	1507.3	1509.3	1511.4	1511.4
167.5°	1518.3	1517.9	1517.9	1517.9	1517.9	1517.9	1519.9	1522.0	1523.9	1526.0	1526.0
170°	1526.6	1526.1	1526.1	1526.1	1526.1	1526.1	1528.1	1530.2	1532.2	1534.3	1534.3
172.5°	1531.3	1530.8	1531.0	1531.2	1531.4	1531.6	1533.7	1535.7	1537.8	1539.8	1539.6
175°	1538.2	1537.7	1537.9	1538.2	1538.5	1538.7	1540.5	1542.3	1544.1	1545.9	1545.7
177.5°	1541.1	1540.7	1540.9	1541.1	1541.2	1541.5	1543.1	1544.7	1546.4	1548.0	1547.8
180°	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8
2.5°	760.1	759.8	760.1	759.0	760.1	759.8	760.1	763.4	763.4	763.7	763.9
5°	707.3	706.9	706.0	702.9	706.0	706.9	707.3	708.4	711.1	715.9	714.5
7.5°	661.2	660.8	657.7	657.8	657.7	660.8	661.2	663.9	667.0	669.9	673.4
10°	633.9	634.3	630.2	627.8	630.2	634.3	633.9	636.3	640.7	643.1	645.5
12.5°	607.4	605.8	602.5	599.9	602.5	605.8	607.4	609.2	615.3	618.0	622.6
15°	572.4	569.0	560.8	561.5	560.8	569.0	572.4	571.1	577.2	580.6	582.0
17.5°	531.2	528.7	528.6	523.8	528.6	528.7	531.2	534.0	539.3	543.0	552.8
20°	507.2	505.5	506.1	501.4	506.1	505.5	507.2	512.6	516.0	520.8	528.7
22.5°	488.3	486.6	483.8	482.2	483.8	486.6	488.3	492.1	495.9	502.6	506.8
25°	460.7	458.0	455.3	457.0	455.3	458.0	460.7	462.8	469.6	472.7	478.8
27.5°	433.1	431.1	428.4	428.0	428.4	431.1	433.1	435.2	438.9	444.1	451.5
30°	415.6	413.6	412.2	410.5	412.2	413.6	415.6	417.3	421.2	426.6	432.0
32.5°	397.9	397.5	395.0	394.7	395.0	397.5	397.9	400.7	404.5	409.7	414.3
35°	374.7	372.6	371.9	372.3	371.9	372.6	374.7	376.0	379.4	384.2	388.7
37.5°	352.6	349.9	348.7	347.4	348.7	349.9	352.6	352.8	356.3	359.5	365.5
40°	336.8	334.0	333.3	332.7	333.3	334.0	336.8	336.4	340.2	342.6	348.0
42.5°	319.0	317.9	317.5	316.3	317.5	317.9	319.0	320.8	323.0	326.5	330.6
45°	294.7	294.4	292.4	293.0	292.4	294.4	294.7	295.8	299.5	301.9	305.7
47.5°	269.2	267.7	266.3	267.2	266.3	267.7	269.2	270.5	273.1	276.1	281.0
50°	251.7	251.0	248.0	248.6	248.0	251.0	251.7	253.1	254.8	258.5	263.0
52.5°	234.3	231.7	230.5	230.1	230.5	231.7	234.3	235.6	237.6	241.9	245.2
55°	205.3	202.2	200.8	200.1	200.8	202.2	205.3	207.7	210.4	215.2	218.6
57.5°	176.8	176.0	175.0	175.7	175.0	176.0	176.8	180.8	183.5	187.3	191.4
60°	160.2	160.2	160.2	159.9	160.2	160.2	160.2	163.6	165.9	169.8	174.2
62.5°	147.3	146.5	146.2	146.7	146.2	146.5	147.3	148.8	151.2	153.6	157.5
65°	127.7	127.4	126.0	125.7	126.0	127.4	127.7	128.8	130.8	132.5	135.3
67.5°	109.2	108.0	107.6	107.1	107.6	108.0	109.2	110.1	111.5	113.7	115.0
70°	95.3	94.6	92.6	92.9	92.6	94.6	95.3	97.0	98.4	101.1	102.5
72.5°	80.3	79.5	79.2	78.6	79.2	79.5	80.3	81.9	83.4	86.3	88.5
75°	63.5	63.2	62.9	64.2	62.9	63.2	63.5	63.8	64.2	65.3	66.3
77.5°	50.9	50.9	51.1	50.6	51.1	50.9	50.9	50.9	50.9	51.5	51.6
80°	42.7	42.7	42.4	42.4	42.4	42.7	42.7	42.7	42.7	42.7	42.4
82.5°	34.2	34.5	34.7	34.2	34.7	34.5	34.2	34.8	35.0	34.5	34.7
85°	22.6	22.2	22.9	22.6	22.9	22.2	22.6	22.6	21.8	22.6	22.2
87.5°	16.7	16.2	16.3	16.7	16.3	16.2	16.7	16.1	15.9	15.7	15.2
90°	32.9	33.3	33.9	34.4	33.9	33.3	32.9	32.4	31.6	30.6	29.5
92.5°	37.2	37.5	37.7	38.1	37.7	37.5	37.2	36.8	35.8	34.2	32.6
95°	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	42.7	40.9	39.1
97.5°	46.5	46.7	47.0	47.3	47.0	46.7	46.5	46.2	45.0	43.1	41.0
100°	47.3	47.6	47.9	48.2	47.9	47.6	47.3	47.2	46.0	44.0	41.9
102.5°	47.7	48.2	48.6	49.0	48.6	48.2	47.7	47.3	50.2	56.4	62.8
105°	49.0	49.4	49.9	50.5	49.9	49.4	49.0	48.4	70.7	115.8	160.9
107.5°	260.5	226.4	192.4	158.5	192.4	226.4	260.5	294.4	328.0	361.1	394.1
110°	424.6	388.2	351.8	315.3	351.8	388.2	424.6	461.0	483.5	491.9	500.2



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	564.0	556.3	548.7	541.0	548.7	556.3	564.0	571.8	575.5	575.3	575.2
115°	671.1	672.2	673.2	674.2	673.2	672.2	671.1	670.1	668.3	665.8	663.3
117.5°	748.3	748.5	748.8	748.9	748.8	748.5	748.3	748.1	747.0	744.9	743.0
120°	800.3	800.3	800.3	800.3	800.3	800.3	800.3	800.3	799.3	797.3	795.2
122.5°	850.2	850.3	850.6	850.8	850.6	850.3	850.2	850.0	849.2	847.7	846.3
125°	920.3	920.9	921.3	921.9	921.3	920.9	920.3	919.8	919.3	918.8	918.3
127.5°	991.8	991.2	990.7	990.2	990.7	991.2	991.8	992.2	992.1	991.2	990.4
130°	1035.7	1035.3	1034.7	1034.2	1034.7	1035.3	1035.7	1036.3	1036.0	1035.0	1033.9
132.5°	1076.7	1076.0	1075.3	1074.6	1075.3	1076.0	1076.7	1077.5	1077.3	1076.3	1075.2
135°	1138.5	1137.8	1137.0	1136.3	1137.0	1137.8	1138.5	1139.3	1139.3	1138.5	1137.8
137.5°	1195.8	1195.3	1194.8	1194.3	1194.8	1195.3	1195.8	1196.3	1196.0	1194.7	1193.6
140°	1230.7	1230.1	1229.7	1229.1	1229.7	1230.1	1230.7	1231.2	1230.9	1229.9	1228.9
142.5°	1263.4	1262.7	1261.9	1261.2	1261.9	1262.7	1263.4	1264.1	1264.1	1263.2	1262.4
145°	1310.5	1310.5	1310.5	1310.5	1310.5	1310.5	1310.5	1310.5	1310.3	1309.7	1309.3
147.5°	1350.8	1349.6	1348.4	1347.2	1348.4	1349.6	1350.8	1351.9	1352.3	1351.7	1351.2
150°	1377.1	1376.3	1375.6	1374.8	1375.6	1376.3	1377.1	1377.8	1378.0	1377.4	1376.9
152.5°	1400.3	1399.1	1397.9	1396.8	1397.9	1399.1	1400.3	1401.5	1401.6	1400.7	1399.7
155°	1432.1	1430.6	1429.1	1427.5	1429.1	1430.6	1432.1	1433.6	1433.8	1432.4	1431.2
157.5°	1459.4	1457.4	1455.4	1453.4	1455.4	1457.4	1459.4	1461.3	1461.6	1460.1	1458.6
160°	1475.2	1473.5	1471.7	1469.9	1471.7	1473.5	1475.2	1477.0	1477.2	1475.7	1474.1
162.5°	1490.2	1488.7	1487.1	1485.5	1487.1	1488.7	1490.2	1491.8	1491.7	1490.0	1488.3
165°	1509.7	1507.9	1506.1	1504.3	1506.1	1507.9	1509.7	1511.4	1511.4	1509.3	1507.3
167.5°	1523.9	1522.0	1519.9	1517.9	1519.9	1522.0	1523.9	1526.0	1526.0	1523.9	1522.0
170°	1532.2	1530.2	1528.1	1526.1	1528.1	1530.2	1532.2	1534.3	1534.3	1532.2	1530.2
172.5°	1537.4	1535.2	1532.9	1530.7	1532.9	1535.2	1537.4	1539.6	1539.8	1537.8	1535.7
175°	1543.7	1541.7	1539.6	1537.6	1539.6	1541.7	1543.7	1545.7	1545.9	1544.1	1542.3
177.5°	1545.8	1543.7	1541.7	1539.6	1541.7	1543.7	1545.8	1547.8	1548.0	1546.4	1544.7
180°	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8
2.5°	761.5	765.4	769.2	772.7	778.2	780.6	784.2	785.5	789.6	795.7	800.6
5°	715.2	720.7	727.8	733.6	742.9	750.0	757.9	765.4	774.3	786.9	798.2
7.5°	675.9	681.3	689.9	700.7	710.9	721.0	731.8	742.0	754.7	772.8	790.8
10°	650.0	656.5	666.7	678.3	690.9	700.9	713.5	726.5	742.2	763.0	784.5
12.5°	627.6	632.4	644.3	655.3	669.6	682.2	694.6	709.8	727.7	749.9	775.8
15°	591.9	598.7	610.4	622.6	637.7	650.9	667.0	685.5	702.9	730.2	761.6
17.5°	556.1	566.5	578.5	592.5	603.6	622.0	639.4	658.3	679.8	708.7	743.2
20°	533.2	541.4	552.6	572.7	587.5	601.5	617.5	641.1	660.8	693.7	729.5
22.5°	513.7	519.8	532.4	549.0	566.1	582.3	598.7	621.2	645.6	676.7	715.6
25°	485.0	494.5	504.1	516.0	534.5	554.0	571.8	590.8	616.8	650.0	692.0
27.5°	456.9	465.6	475.0	489.7	503.7	521.9	540.5	562.4	590.2	625.3	667.9
30°	438.9	445.4	454.2	473.1	485.7	501.4	523.3	542.7	568.6	605.9	650.9
32.5°	420.3	428.7	438.4	452.8	468.4	483.3	503.3	524.4	550.9	587.5	633.7
35°	393.8	403.7	413.6	424.2	439.9	455.3	472.0	495.3	522.2	557.8	603.2
37.5°	369.4	377.4	385.5	398.6	413.5	428.1	443.7	466.6	492.0	530.4	572.0
40°	353.8	361.1	367.1	380.8	395.2	410.9	426.2	446.4	473.7	509.6	549.9
42.5°	336.9	343.5	351.9	363.0	378.5	391.7	407.2	426.1	451.8	488.3	523.6
45°	311.5	319.0	326.2	336.8	352.1	365.1	378.8	396.9	423.2	453.3	484.6
47.5°	285.1	292.6	300.8	311.0	324.4	337.6	351.2	367.3	391.3	420.8	441.9
50°	268.1	274.3	282.5	292.7	305.0	319.0	331.3	348.7	371.6	394.8	413.3
52.5°	250.7	256.2	265.6	276.3	287.8	299.9	313.0	328.0	348.7	370.5	385.1
55°	223.4	230.2	238.1	248.6	259.9	270.2	282.8	298.2	314.6	330.9	340.9
57.5°	197.9	203.6	210.2	221.1	230.9	243.1	254.4	266.4	281.6	293.9	300.4
60°	179.3	184.4	193.0	202.5	211.8	222.3	235.3	247.3	258.9	268.8	273.9
62.5°	161.8	167.7	175.2	184.0	194.0	204.0	215.3	225.4	235.7	244.2	247.7
65°	139.0	143.8	149.3	157.5	165.7	175.9	184.8	195.0	202.5	207.3	210.4
67.5°	118.2	121.4	125.6	131.0	139.1	148.0	156.7	164.6	170.9	174.2	176.9
70°	104.9	106.9	109.9	115.5	121.6	129.5	138.3	144.1	149.6	152.3	155.1
72.5°	91.5	94.1	96.8	101.2	106.3	112.0	118.4	125.6	128.6	131.8	133.5
75°	69.4	73.1	76.9	79.5	83.0	87.5	93.3	97.6	99.4	102.1	102.5
77.5°	52.3	53.1	55.9	59.3	62.2	65.4	69.0	73.0	73.8	75.3	76.2
80°	43.1	43.1	43.1	45.1	48.5	50.9	54.3	56.4	57.7	58.1	58.4
82.5°	34.6	34.6	34.3	34.7	35.9	37.2	40.4	42.7	43.8	43.6	42.8
85°	22.6	21.8	21.8	21.5	21.8	21.1	20.9	22.2	24.3	24.3	23.5
87.5°	15.0	14.5	14.1	13.2	12.2	11.3	9.9	9.7	9.2	9.7	9.0
90°	28.5	27.6	24.2	20.9	17.6	14.3	11.3	8.8	6.2	3.7	1.2
92.5°	30.9	29.3	26.8	24.3	21.8	19.4	18.5	19.2	19.9	20.6	21.3
95°	37.4	35.6	32.7	30.0	27.1	24.3	28.2	38.6	49.0	59.5	69.9
97.5°	39.0	36.9	55.3	73.7	91.9	110.3	121.8	126.5	131.2	135.9	140.5
100°	39.9	37.8	77.6	117.3	157.1	196.8	214.2	209.0	203.9	198.9	193.8
102.5°	69.1	75.4	118.9	162.3	205.7	249.1	269.0	265.3	261.6	258.0	254.3
105°	206.0	251.1	274.0	296.9	319.9	342.9	352.8	350.1	347.3	344.5	341.7
107.5°	427.1	460.2	456.6	453.0	449.4	445.8	442.8	440.6	438.4	436.1	433.9
110°	508.7	517.1	514.3	511.5	508.7	505.9	503.5	501.4	499.4	497.4	495.3



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	575.1	574.9	572.1	569.3	566.5	563.7	561.3	559.5	557.7	555.9	554.0
115°	660.7	658.2	655.9	653.5	651.2	649.0	647.0	645.5	644.0	642.5	641.0
117.5°	740.9	738.9	737.7	736.6	735.3	734.1	732.6	730.8	728.9	727.0	725.1
120°	793.2	791.1	790.4	789.6	788.8	788.1	786.6	784.3	781.9	779.7	777.4
122.5°	844.9	843.5	842.5	841.5	840.5	839.5	838.1	836.2	834.4	832.5	830.6
125°	917.7	917.3	916.2	915.3	914.2	913.2	911.7	909.6	907.6	905.5	903.5
127.5°	989.6	988.8	987.6	986.4	985.2	983.9	982.3	980.3	978.2	976.2	974.1
130°	1033.0	1031.9	1030.9	1029.9	1028.9	1027.9	1026.4	1024.3	1022.3	1020.2	1018.2
132.5°	1074.2	1073.2	1072.4	1071.6	1070.8	1070.0	1068.5	1066.5	1064.4	1062.4	1060.3
135°	1137.0	1136.3	1135.2	1134.3	1133.2	1132.2	1131.0	1129.4	1127.8	1126.3	1124.8
137.5°	1192.3	1191.1	1190.5	1190.0	1189.4	1188.8	1187.6	1185.6	1183.7	1181.8	1179.8
140°	1227.9	1226.8	1226.1	1225.3	1224.6	1223.8	1222.6	1221.1	1219.6	1218.1	1216.6
142.5°	1261.6	1260.8	1260.0	1259.3	1258.5	1257.8	1256.6	1255.1	1253.6	1252.0	1250.4
145°	1308.8	1308.2	1307.8	1307.2	1306.7	1306.2	1305.1	1303.3	1301.5	1299.8	1298.0
147.5°	1350.8	1350.2	1349.7	1349.2	1348.7	1348.2	1347.4	1346.1	1345.0	1343.8	1342.6
150°	1376.4	1375.9	1375.4	1374.8	1374.4	1373.9	1373.2	1372.4	1371.7	1370.9	1370.2
152.5°	1398.8	1397.9	1397.6	1397.3	1397.0	1396.7	1396.3	1396.0	1395.6	1395.3	1394.9
155°	1429.9	1428.6	1428.4	1428.2	1427.9	1427.6	1427.7	1428.3	1428.8	1429.3	1429.8
157.5°	1457.0	1455.5	1455.7	1456.0	1456.3	1456.5	1456.6	1456.7	1456.8	1456.8	1456.9
160°	1472.6	1471.1	1471.3	1471.6	1471.9	1472.1	1472.3	1472.6	1472.8	1473.1	1473.4
162.5°	1486.6	1484.8	1485.1	1485.3	1485.6	1485.9	1486.3	1486.9	1487.6	1488.3	1489.0
165°	1505.2	1503.2	1503.4	1503.7	1504.0	1504.2	1504.7	1505.5	1506.2	1507.0	1507.8
167.5°	1519.9	1517.9	1517.9	1517.9	1517.9	1517.9	1518.3	1519.4	1520.4	1521.4	1522.4
170°	1528.1	1526.1	1526.1	1526.1	1526.1	1526.1	1526.6	1527.7	1528.7	1529.6	1530.7
172.5°	1533.7	1531.6	1531.4	1531.2	1531.0	1530.8	1531.3	1532.5	1533.7	1535.0	1536.2
175°	1540.5	1538.7	1538.5	1538.2	1537.9	1537.7	1538.2	1539.4	1540.8	1542.0	1543.3
177.5°	1543.1	1541.5	1541.2	1541.1	1540.9	1540.7	1541.1	1542.1	1543.1	1544.1	1545.2
180°	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8
2.5°	802.2	805.2	809.0	814.8	819.1	823.0	823.8	824.9	827.6	832.2	835.8
5°	807.4	815.3	827.9	840.2	853.5	864.4	874.7	881.9	888.7	903.0	914.6
7.5°	805.7	823.2	843.0	865.1	887.4	909.1	929.2	947.2	965.1	986.0	1009.8
10°	804.7	825.2	851.8	880.1	911.2	941.6	971.0	993.9	1020.6	1044.5	1074.9
12.5°	799.5	829.0	860.9	897.1	935.3	970.4	1009.0	1040.6	1071.0	1105.6	1140.9
15°	792.7	828.6	868.9	917.0	975.1	1017.4	1057.0	1112.1	1149.6	1187.2	1237.8
17.5°	780.3	824.1	874.5	937.0	985.5	1042.4	1102.0	1145.5	1196.1	1249.0	1294.8
20°	770.5	821.4	877.8	939.2	1001.0	1062.9	1120.6	1172.5	1224.8	1285.9	1323.5
22.5°	760.7	811.0	869.6	934.9	1001.3	1066.4	1131.8	1192.8	1251.5	1313.2	1361.2
25°	739.8	799.5	863.1	929.7	995.2	1066.9	1144.9	1212.8	1285.6	1349.1	1394.5
27.5°	718.6	773.4	836.6	904.2	977.0	1061.8	1153.4	1230.7	1303.6	1349.1	1363.3
30°	699.5	757.5	815.6	884.2	963.1	1057.7	1155.1	1243.6	1303.3	1323.1	1308.4
32.5°	680.1	732.7	790.2	860.5	944.3	1047.7	1157.3	1235.9	1271.9	1256.8	1196.9
35°	645.9	693.3	749.0	819.4	915.7	1042.1	1148.3	1201.6	1192.7	1107.2	994.5
37.5°	609.2	647.9	699.5	773.0	886.0	1019.8	1109.5	1117.3	1040.4	909.4	779.2
40°	580.2	615.1	668.1	744.9	863.1	998.0	1070.4	1038.7	919.4	773.6	664.9
42.5°	552.1	581.5	632.5	715.4	841.2	968.2	1012.2	943.0	805.5	667.5	568.8
45°	504.4	532.1	583.4	668.4	796.5	911.2	905.4	785.2	647.6	536.5	454.6
47.5°	459.2	483.4	531.5	618.3	744.0	825.8	771.5	643.6	526.8	437.8	379.3
50°	427.3	451.2	499.0	584.7	701.9	761.6	684.1	560.8	453.9	380.1	333.7
52.5°	396.6	420.0	463.8	547.2	651.0	686.8	603.5	489.2	400.1	336.4	296.5
55°	353.8	371.6	410.9	490.8	568.3	576.5	492.1	396.5	323.1	278.7	251.4
57.5°	310.2	325.5	364.3	427.9	482.3	478.0	398.1	315.4	265.9	232.9	213.1
60°	281.8	296.8	330.9	385.6	426.6	412.2	338.9	272.2	229.9	205.6	189.9
62.5°	255.3	267.0	299.0	338.9	368.4	352.1	289.6	234.5	200.9	180.5	168.0
65°	216.9	226.4	252.1	272.9	289.3	273.6	221.7	183.4	159.2	144.8	136.3
67.5°	180.4	186.5	202.7	210.2	221.8	204.6	166.7	141.1	127.2	115.2	109.2
70°	157.5	161.9	170.4	176.6	179.7	161.9	133.8	115.1	103.5	95.0	91.2
72.5°	134.5	138.4	140.1	145.2	143.6	126.9	107.6	92.7	84.4	78.6	73.7
75°	102.8	104.5	102.8	100.8	96.3	84.7	71.4	63.8	57.7	55.0	53.3
77.5°	74.9	74.4	72.1	68.8	61.3	53.9	46.8	44.2	41.6	40.1	39.6
80°	57.7	56.4	54.3	49.2	42.7	37.5	35.8	34.2	33.2	31.4	31.1
82.5°	43.0	42.2	38.7	34.4	29.9	27.5	26.0	25.4	24.3	23.5	23.5
85°	22.9	21.8	18.1	15.7	15.1	14.4	14.0	14.0	12.7	12.3	12.3
87.5°	8.1	7.0	7.2	7.0	7.5	7.6	8.6	8.6	9.1	9.5	9.2
90°	3.7	6.2	8.8	11.3	14.3	17.6	20.9	24.2	27.6	28.5	29.5
92.5°	20.6	19.9	19.2	18.5	19.4	21.8	24.3	26.8	29.3	30.9	32.6
95°	59.5	49.0	38.6	28.2	24.3	27.1	30.0	32.7	35.6	37.4	39.1
97.5°	135.9	131.2	126.5	121.8	110.3	91.9	73.7	55.3	36.9	39.0	41.0
100°	198.9	203.9	209.0	214.2	196.8	157.1	117.3	77.6	37.8	39.9	41.9
102.5°	258.0	261.6	265.3	269.0	249.1	205.7	162.3	118.9	75.4	69.1	62.8
105°	344.5	347.3	350.1	352.8	342.9	319.9	296.9	274.0	251.1	206.0	160.9
107.5°	436.1	438.4	440.6	442.8	445.8	449.4	453.0	456.6	460.2	427.1	394.1
110°	497.4	499.4	501.4	503.5	505.9	508.7	511.5	514.3	517.1	508.7	500.2





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	555.9	557.7	559.5	561.3	563.7	566.5	569.3	572.1	574.9	575.1	575.2
115°	642.5	644.0	645.5	647.0	649.0	651.2	653.5	655.9	658.2	660.7	663.3
117.5°	727.0	728.9	730.8	732.6	734.1	735.3	736.6	737.7	738.9	740.9	743.0
120°	779.7	781.9	784.3	786.6	788.1	788.8	789.6	790.4	791.1	793.2	795.2
122.5°	832.5	834.4	836.2	838.1	839.5	840.5	841.5	842.5	843.5	844.9	846.3
125°	905.5	907.6	909.6	911.7	913.2	914.2	915.3	916.2	917.3	917.7	918.3
127.5°	976.2	978.2	980.3	982.3	983.9	985.2	986.4	987.6	988.8	989.6	990.4
130°	1020.2	1022.3	1024.3	1026.4	1027.9	1028.9	1029.9	1030.9	1031.9	1033.0	1033.9
132.5°	1062.4	1064.4	1066.5	1068.5	1070.0	1070.8	1071.6	1072.4	1073.2	1074.2	1075.2
135°	1126.3	1127.8	1129.4	1131.0	1132.2	1133.2	1134.3	1135.2	1136.3	1137.0	1137.8
137.5°	1181.8	1183.7	1185.6	1187.6	1188.8	1189.4	1190.0	1190.5	1191.1	1192.3	1193.6
140°	1218.1	1219.6	1221.1	1222.6	1223.8	1224.6	1225.3	1226.1	1226.8	1227.9	1228.9
142.5°	1252.0	1253.6	1255.1	1256.6	1257.8	1258.5	1259.3	1260.0	1260.8	1261.6	1262.4
145°	1299.8	1301.5	1303.3	1305.1	1306.2	1306.7	1307.2	1307.8	1308.2	1308.8	1309.3
147.5°	1343.8	1345.0	1346.1	1347.4	1348.2	1348.7	1349.2	1349.7	1350.2	1350.8	1351.2
150°	1370.9	1371.7	1372.4	1373.2	1373.9	1374.4	1374.8	1375.4	1375.9	1376.4	1376.9
152.5°	1395.3	1395.6	1396.0	1396.3	1396.7	1397.0	1397.3	1397.6	1397.9	1398.8	1399.7
155°	1429.3	1428.8	1428.3	1427.7	1427.6	1427.9	1428.2	1428.4	1428.6	1429.9	1431.2
157.5°	1456.8	1456.8	1456.7	1456.6	1456.5	1456.3	1456.0	1455.7	1455.5	1457.0	1458.6
160°	1473.1	1472.8	1472.6	1472.3	1472.1	1471.9	1471.6	1471.3	1471.1	1472.6	1474.1
162.5°	1488.3	1487.6	1486.9	1486.3	1485.9	1485.6	1485.3	1485.1	1484.8	1486.6	1488.3
165°	1507.0	1506.2	1505.5	1504.7	1504.2	1504.0	1503.7	1503.4	1503.2	1505.2	1507.3
167.5°	1521.4	1520.4	1519.4	1518.3	1517.9	1517.9	1517.9	1517.9	1517.9	1519.9	1522.0
170°	1529.6	1528.7	1527.7	1526.6	1526.1	1526.1	1526.1	1526.1	1526.1	1528.1	1530.2
172.5°	1535.0	1533.7	1532.5	1531.3	1530.8	1531.0	1531.2	1531.4	1531.6	1533.7	1535.7
175°	1542.0	1540.8	1539.4	1538.2	1537.7	1537.9	1538.2	1538.5	1538.7	1540.5	1542.3
177.5°	1544.1	1543.1	1542.1	1541.1	1540.7	1540.9	1541.1	1541.2	1541.5	1543.1	1544.7
180°	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	797.8	797.8	797.8	797.8	797.8	797.8	797.8
2.5°	841.6	841.6	842.7	846.8	847.3	850.9	849.7
5°	924.9	931.4	933.8	944.1	950.2	952.9	947.4
7.5°	1026.8	1045.1	1053.8	1064.5	1074.0	1076.9	1069.4
10°	1101.2	1120.3	1136.3	1146.2	1155.5	1161.5	1169.5
12.5°	1173.0	1196.5	1211.7	1225.7	1235.2	1243.0	1244.3
15°	1251.1	1286.6	1313.6	1333.4	1343.3	1348.4	1346.4
17.5°	1329.8	1362.7	1382.0	1402.1	1415.9	1416.6	1417.0
20°	1374.4	1406.5	1428.7	1443.7	1459.1	1458.4	1461.8
22.5°	1404.2	1429.4	1446.4	1457.3	1462.6	1460.0	1460.7
25°	1418.1	1425.6	1422.5	1405.1	1400.7	1384.6	1387.3
27.5°	1346.2	1310.7	1274.0	1226.6	1189.4	1159.6	1161.1
30°	1248.7	1185.8	1114.1	1054.0	1000.1	985.0	952.9
32.5°	1112.3	1018.1	934.1	878.1	831.7	819.1	791.1
35°	881.2	789.6	703.2	651.3	630.8	602.2	601.8
37.5°	684.9	604.3	558.7	519.7	499.3	481.9	480.2
40°	576.2	513.4	478.8	450.8	430.7	417.7	414.6
42.5°	500.2	449.4	417.1	399.8	384.2	377.6	372.6
45°	408.5	374.3	351.8	336.1	328.9	323.8	321.0
47.5°	341.7	318.8	303.4	293.0	287.1	281.8	283.2
50°	305.3	286.6	275.3	265.4	260.9	257.2	257.5
52.5°	276.1	259.2	250.1	243.0	237.5	234.8	233.4
55°	234.3	223.7	214.5	209.4	206.3	202.5	201.5
57.5°	199.8	191.6	184.1	178.3	177.6	174.0	174.4
60°	176.9	170.0	163.9	160.9	158.5	155.4	156.4
62.5°	158.1	152.3	146.7	144.2	141.8	139.6	140.0
65°	129.5	123.9	120.6	119.2	118.2	117.2	116.1
67.5°	103.2	99.8	97.6	94.7	92.6	92.3	91.2
70°	86.8	82.3	78.6	74.8	73.7	73.4	73.7
72.5°	69.6	66.7	65.7	63.8	63.7	62.8	63.4
75°	52.3	51.3	50.6	49.2	49.2	49.2	49.2
77.5°	38.5	37.9	37.5	37.2	36.9	36.4	36.4
80°	30.1	29.7	29.1	29.1	28.7	29.1	28.7
82.5°	22.6	22.6	21.9	21.9	21.6	21.4	21.6
85°	11.6	11.2	11.9	11.2	11.6	11.0	11.6
87.5°	9.4	9.6	9.5	9.5	9.5	10.1	9.6
90°	30.6	31.6	32.4	32.9	33.3	33.9	34.4
92.5°	34.2	35.8	36.8	37.2	37.5	37.7	38.1
95°	40.9	42.7	43.6	43.6	43.6	43.6	43.6
97.5°	43.1	45.0	46.2	46.5	46.7	47.0	47.3
100°	44.0	46.0	47.2	47.3	47.6	47.9	48.2
102.5°	56.4	50.2	47.3	47.7	48.2	48.6	49.0
105°	115.8	70.7	48.4	49.0	49.4	49.9	50.5
107.5°	361.1	328.0	294.4	260.5	226.4	192.4	158.5
110°	491.9	483.5	461.0	424.6	388.2	351.8	315.3



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	575.3	575.5	571.8	564.0	556.3	548.7	541.0
115°	665.8	668.3	670.1	671.1	672.2	673.2	674.2
117.5°	744.9	747.0	748.1	748.3	748.5	748.8	748.9
120°	797.3	799.3	800.3	800.3	800.3	800.3	800.3
122.5°	847.7	849.2	850.0	850.2	850.3	850.6	850.8
125°	918.8	919.3	919.8	920.3	920.9	921.3	921.9
127.5°	991.2	992.1	992.2	991.8	991.2	990.7	990.2
130°	1035.0	1036.0	1036.3	1035.7	1035.3	1034.7	1034.2
132.5°	1076.3	1077.3	1077.5	1076.7	1076.0	1075.3	1074.6
135°	1138.5	1139.3	1139.3	1138.5	1137.8	1137.0	1136.3
137.5°	1194.7	1196.0	1196.3	1195.8	1195.3	1194.8	1194.3
140°	1229.9	1230.9	1231.2	1230.7	1230.1	1229.7	1229.1
142.5°	1263.2	1264.1	1264.1	1263.4	1262.7	1261.9	1261.2
145°	1309.7	1310.3	1310.5	1310.5	1310.5	1310.5	1310.5
147.5°	1351.7	1352.3	1351.9	1350.8	1349.6	1348.4	1347.2
150°	1377.4	1378.0	1377.8	1377.1	1376.3	1375.6	1374.8
152.5°	1400.7	1401.6	1401.5	1400.3	1399.1	1397.9	1396.8
155°	1432.4	1433.8	1433.6	1432.1	1430.6	1429.1	1427.5
157.5°	1460.1	1461.6	1461.3	1459.4	1457.4	1455.4	1453.4
160°	1475.7	1477.2	1477.0	1475.2	1473.5	1471.7	1469.9
162.5°	1490.0	1491.7	1491.8	1490.2	1488.7	1487.1	1485.5
165°	1509.3	1511.4	1511.4	1509.7	1507.9	1506.1	1504.3
167.5°	1523.9	1526.0	1526.0	1523.9	1522.0	1519.9	1517.9
170°	1532.2	1534.3	1534.3	1532.2	1530.2	1528.1	1526.1
172.5°	1537.8	1539.8	1539.6	1537.4	1535.2	1532.9	1530.7
175°	1544.1	1545.9	1545.7	1543.7	1541.7	1539.6	1537.6
177.5°	1546.4	1548.0	1547.8	1545.8	1543.7	1541.7	1539.6
180°	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3

(END OF REPORT)