

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: P331982-830

Luminaire Tested: **S123DIP-S775D1025U830-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331982-830  
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-S775D1025U830-4F0-1E-UDD-A  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 775 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1025 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6939.1 lumens  
Efficiency: N/A  
Efficacy: 133.4 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: General Diffuse

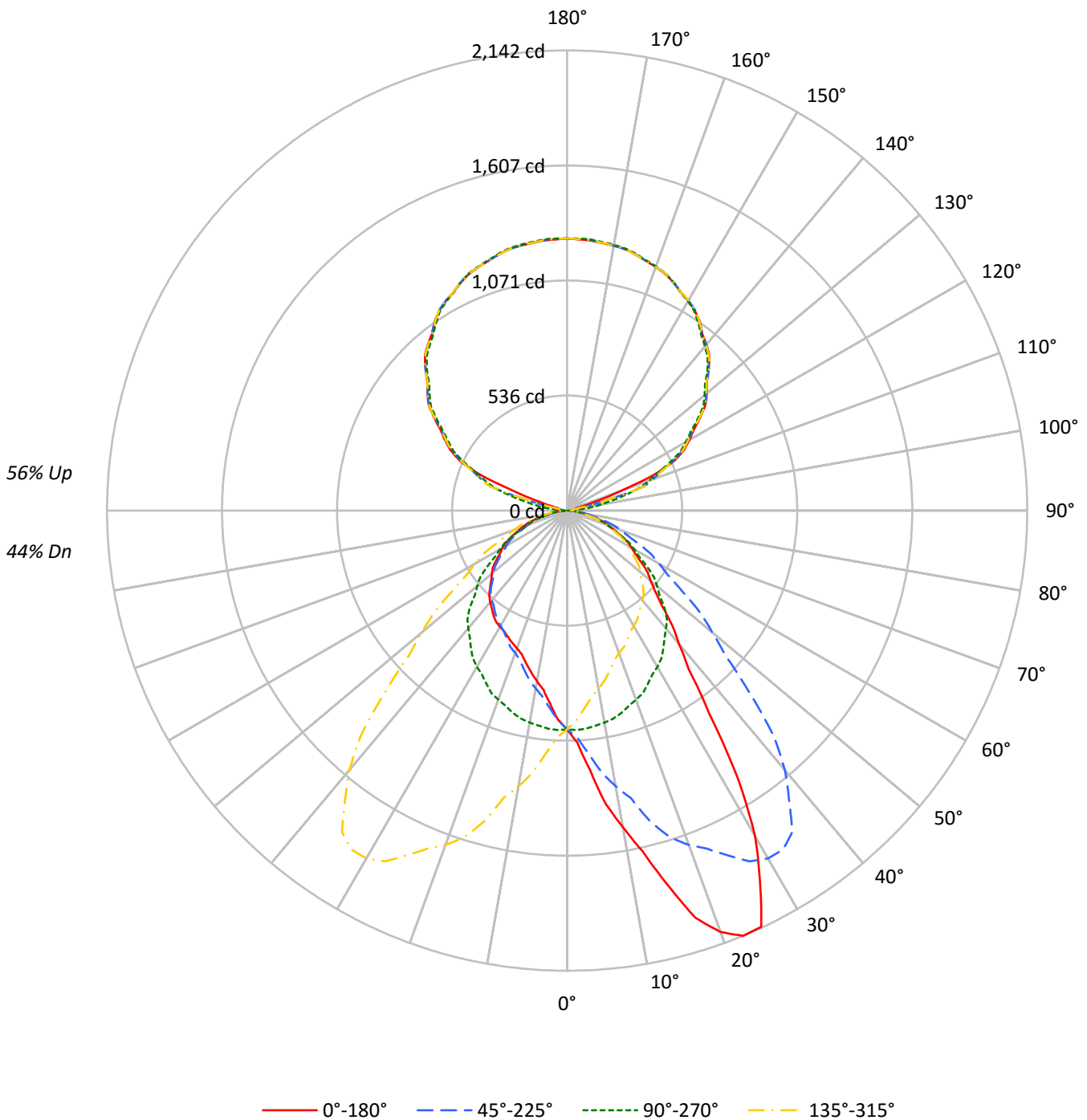
Input Watts (W): 52  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44				
1	97	93	89	85	88	85	82	79	71	68	66	57	56	55	45	44	43	38				
2	88	81	75	70	81	74	69	65	62	58	55	51	48	46	40	38	37	32				
3	81	71	64	59	74	66	60	55	55	50	47	45	42	39	36	34	32	27				
4	74	63	56	50	67	58	52	46	49	44	40	40	37	34	32	30	27	24				
5	68	56	48	43	62	52	45	40	44	39	34	36	32	29	29	26	24	21				
6	62	51	43	37	57	47	40	35	39	34	30	33	29	26	26	23	21	18				
7	58	46	38	32	53	42	35	30	36	30	26	30	26	23	24	21	19	16				
8	54	41	34	29	49	38	32	27	33	27	24	27	23	20	22	19	17	14				
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	20	17	15	13				
10	46	35	28	23	43	32	26	21	27	22	19	23	19	16	19	16	14	12				

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

	0°	90°	180°	270°
0°	10962	10962	10962	10962
5°	13073	11010	9757	11010
10°	16363	10954	8813	10954
15°	20070	10866	8204	10866
20°	23909	10727	7811	10727
25°	25388	10561	7725	10561
30°	21760	10438	7764	10438
35°	15134	10264	7846	10264
40°	11398	10061	7821	10061
45°	9464	9758	7722	9758
50°	8477	9138	7651	9138
55°	7927	8473	7557	8473
60°	7436	7776	7479	7776
65°	6989	7088	7238	7088
70°	6552	6304	6892	6304
75°	5868	5519	6317	5519
80°	5139	4525	5442	4525
85°	4026	3298	3656	3298



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.3	1.4
10°-20°	321.7	4.6
20°-30°	539.9	7.8
30°-40°	611.3	8.8
40°-50°	548.2	7.9
50°-60°	442.4	6.4
60°-70°	308.3	4.4
70°-80°	162.0	2.3
80°-90°	43.2	0.6
90°-100°	46.0	0.7
100°-110°	219.4	3.2
110°-120°	527.0	7.6
120°-130°	671.1	9.7
130°-140°	717.1	10.3
140°-150°	670.6	9.7
150°-160°	540.9	7.8
160°-170°	349.1	5.0
170°-180°	120.3	1.7
0°-30°	961.9	13.9
0°-40°	1573.3	22.7
0°-60°	2563.9	36.9
0°-90°	3077.4	44.3
90°-120°	792.5	11.4
90°-150°	2851.3	41.1
90°-180°	3862.0	55.7
0°-180°	6939.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1018	1018	1018	1018	1018	
5°	1210	1019	903	1019	1210	125
15°	1801	975	736	975	1801	520
25°	2138	889	650	889	2138	937
35°	1152	781	597	781	1152	748
45°	622	641	507	641	622	492
55°	422	452	403	452	422	379
65°	274	278	284	278	274	273
75°	141	133	152	133	141	151
85°	33	27	30	27	33	39
90°	28	1	28	1	28	14
95°	36	57	36	57	36	30
105°	41	280	41	280	41	95
115°	553	526	553	526	553	511
125°	756	741	756	741	756	675
135°	932	923	932	923	932	719
145°	1075	1065	1075	1065	1075	671
155°	1171	1173	1171	1173	1171	540
165°	1234	1237	1234	1237	1234	349
175°	1262	1266	1262	1266	1262	120
180°	1266	1266	1266	1266	1266	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4
2.5°	1080.8	1080.1	1078.1	1079.7	1076.5	1072.1	1071.8	1067.8	1056.3	1055.6	1052.4
5°	1209.9	1206.0	1205.5	1204.9	1198.1	1188.7	1170.9	1169.4	1145.8	1133.9	1119.6
7.5°	1377.1	1379.1	1372.0	1365.6	1344.5	1330.6	1311.5	1287.1	1258.1	1228.6	1208.9
10°	1497.1	1513.3	1493.2	1479.3	1466.5	1442.3	1414.2	1379.1	1344.2	1303.2	1272.1
12.5°	1625.8	1633.8	1629.8	1616.7	1596.8	1560.0	1510.1	1471.5	1439.3	1371.0	1343.5
15°	1801.0	1831.2	1811.9	1767.5	1768.5	1733.4	1668.3	1596.8	1558.8	1499.0	1417.7
17.5°	1987.7	1991.5	1983.3	1946.4	1921.7	1873.5	1813.4	1744.8	1667.8	1595.5	1509.2
20°	2087.3	2084.2	2067.0	2047.8	2005.4	1967.8	1902.2	1825.7	1727.0	1656.0	1561.7
22.5°	2142.5	2137.6	2129.4	2113.3	2077.9	2037.7	1978.8	1895.2	1801.3	1703.4	1594.5
25°	2137.6	2144.0	2144.9	2140.5	2128.2	2104.0	2057.7	1991.0	1897.2	1771.4	1657.9
27.5°	1944.2	1953.2	1979.6	2003.0	2029.1	2055.8	2052.2	2019.1	1949.7	1841.2	1702.3
30°	1750.7	1731.0	1779.8	1841.5	1883.5	1957.5	1998.9	2001.4	1962.4	1869.2	1733.9
32.5°	1482.2	1504.0	1525.6	1601.5	1693.2	1776.3	1858.8	1925.2	1932.8	1870.8	1752.5
35°	1151.7	1178.8	1218.3	1257.7	1356.5	1441.3	1586.4	1712.7	1813.4	1826.7	1754.2
37.5°	928.0	941.5	966.5	1006.0	1070.5	1171.2	1283.5	1443.1	1588.9	1697.4	1702.1
40°	811.2	815.2	843.3	873.4	925.7	1008.6	1109.7	1250.8	1425.5	1577.1	1640.2
42.5°	723.6	732.3	744.2	773.1	814.7	877.1	971.2	1087.8	1247.9	1422.3	1545.9
45°	621.7	631.6	639.0	658.3	687.9	729.8	795.4	902.0	1023.9	1204.0	1370.3
47.5°	554.4	555.3	560.7	575.2	595.4	626.9	673.3	741.8	853.7	999.7	1170.4
50°	506.2	514.2	516.1	527.4	543.3	566.5	604.9	663.2	755.0	883.3	1040.2
52.5°	472.3	474.7	480.2	488.4	502.2	520.3	553.6	599.3	671.3	780.6	924.9
55°	422.4	422.4	427.8	434.2	442.1	458.4	480.6	514.2	568.9	653.8	773.3
57.5°	376.2	378.6	382.5	384.5	391.2	402.0	420.5	446.0	486.8	552.1	647.1
60°	345.4	349.9	349.4	353.3	359.2	367.6	383.4	404.2	440.6	492.9	572.9
62.5°	318.6	318.3	318.2	322.9	328.9	336.9	347.0	365.0	396.1	442.4	510.5
65°	274.4	273.3	276.8	279.7	281.7	287.7	295.6	311.3	332.1	366.6	419.4
67.5°	235.1	232.2	234.1	235.1	238.5	243.1	250.4	260.2	276.7	304.4	344.2
70°	208.2	205.8	205.3	206.2	209.2	212.6	218.1	227.4	242.8	264.9	294.1
72.5°	180.6	178.9	178.8	181.0	182.4	184.6	188.5	197.1	209.2	225.9	253.1
75°	141.1	141.1	141.1	141.6	143.1	145.1	148.1	152.5	161.8	173.7	191.9
77.5°	105.8	105.7	105.1	105.0	107.2	108.1	108.8	112.9	118.1	126.1	139.4
80°	82.9	80.4	81.4	82.9	83.9	84.4	85.9	86.8	91.3	95.8	105.1
82.5°	61.5	59.5	59.7	62.0	62.2	62.7	64.2	65.5	67.2	71.3	76.3
85°	32.6	32.6	33.1	33.1	33.6	33.1	34.5	35.1	35.1	37.5	40.4
87.5°	17.5	16.6	17.0	17.2	16.8	17.1	17.2	17.4	17.7	17.9	17.8
90°	28.2	27.8	27.4	27.0	26.6	25.9	25.1	24.2	23.4	22.6	19.9
92.5°	31.2	31.0	30.7	30.4	30.3	29.4	28.1	26.8	25.4	24.1	22.1
95°	35.7	35.7	35.7	35.7	35.7	35.1	33.6	32.0	30.6	29.1	26.9
97.5°	38.7	38.5	38.4	38.2	37.9	36.9	35.3	33.6	32.0	30.3	45.3
100°	39.5	39.3	39.1	38.9	38.6	37.7	36.1	34.4	32.7	31.0	63.6
102.5°	40.2	39.9	39.5	39.1	38.7	41.2	46.4	51.6	56.7	61.9	97.6
105°	41.4	41.0	40.5	40.2	39.7	58.1	95.0	132.1	169.0	206.0	224.9
107.5°	130.0	157.9	185.8	213.7	241.6	269.1	296.2	323.4	350.5	377.7	374.7
110°	258.7	288.6	318.5	348.4	378.3	396.7	403.6	410.5	417.4	424.3	422.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	443.8	450.2	456.5	462.8	469.1	472.2	472.1	471.9	471.8	471.7	469.4
115°	553.2	552.3	551.5	550.6	549.9	548.4	546.3	544.2	542.2	540.0	538.1
117.5°	614.5	614.3	614.2	614.1	613.9	612.9	611.2	609.6	607.9	606.2	605.3
120°	656.7	656.7	656.7	656.7	656.7	655.8	654.1	652.5	650.8	649.1	648.6
122.5°	698.0	697.9	697.8	697.6	697.4	696.7	695.6	694.4	693.2	692.0	691.3
125°	756.4	756.0	755.5	755.2	754.7	754.3	753.8	753.5	753.1	752.6	751.8
127.5°	812.5	812.8	813.3	813.7	814.2	814.0	813.3	812.7	812.0	811.3	810.3
130°	848.6	849.0	849.4	849.9	850.3	850.1	849.2	848.4	847.5	846.7	845.8
132.5°	881.7	882.3	882.9	883.4	884.0	883.9	883.1	882.2	881.5	880.6	880.0
135°	932.4	932.9	933.6	934.2	934.8	934.8	934.2	933.6	932.9	932.4	931.5
137.5°	980.0	980.3	980.8	981.2	981.6	981.3	980.3	979.3	978.3	977.3	976.9
140°	1008.5	1009.0	1009.4	1009.7	1010.2	1010.0	1009.2	1008.3	1007.5	1006.6	1006.1
142.5°	1034.9	1035.5	1036.0	1036.6	1037.2	1037.2	1036.5	1035.9	1035.2	1034.5	1033.9
145°	1075.3	1075.3	1075.3	1075.3	1075.3	1075.2	1074.7	1074.3	1073.8	1073.5	1073.0
147.5°	1105.4	1106.4	1107.4	1108.3	1109.3	1109.6	1109.1	1108.7	1108.3	1107.9	1107.5
150°	1128.0	1128.6	1129.3	1129.9	1130.5	1130.7	1130.2	1129.8	1129.4	1129.0	1128.5
152.5°	1146.0	1147.1	1148.0	1149.0	1149.9	1150.0	1149.2	1148.5	1147.7	1147.0	1146.8
155°	1171.3	1172.5	1173.8	1175.1	1176.3	1176.4	1175.4	1174.3	1173.3	1172.2	1172.1
157.5°	1192.6	1194.2	1195.8	1197.4	1199.1	1199.3	1198.0	1196.7	1195.5	1194.2	1194.5
160°	1206.1	1207.6	1209.0	1210.5	1211.9	1212.0	1210.8	1209.6	1208.3	1207.0	1207.2
162.5°	1218.9	1220.2	1221.4	1222.8	1224.1	1224.0	1222.6	1221.2	1219.7	1218.3	1218.5
165°	1234.4	1235.8	1237.3	1238.7	1240.2	1240.1	1238.4	1236.7	1235.0	1233.4	1233.6
167.5°	1245.4	1247.1	1248.8	1250.5	1252.1	1252.1	1250.5	1248.8	1247.1	1245.4	1245.4
170°	1252.2	1253.9	1255.6	1257.3	1258.9	1258.9	1257.3	1255.6	1253.9	1252.2	1252.2
172.5°	1255.9	1257.8	1259.6	1261.5	1263.3	1263.4	1261.7	1260.1	1258.4	1256.7	1256.5
175°	1261.6	1263.3	1265.0	1266.6	1268.3	1268.4	1267.0	1265.5	1264.0	1262.5	1262.3
177.5°	1263.3	1265.0	1266.7	1268.3	1270.0	1270.2	1268.9	1267.4	1266.1	1264.8	1264.6
180°	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4
2.5°	1050.0	1046.9	1043.7	1038.2	1033.5	1026.7	1024.7	1022.4	1015.3	1009.0	1004.3
5°	1114.2	1102.3	1085.1	1069.3	1056.5	1039.2	1029.4	1019.0	1004.2	990.8	980.0
7.5°	1181.3	1158.0	1131.1	1102.1	1075.1	1049.0	1028.0	1009.3	988.5	968.9	953.7
10°	1234.5	1201.0	1163.6	1123.0	1088.5	1055.0	1026.8	1002.2	975.5	952.3	933.1
12.5°	1295.3	1245.7	1193.9	1144.8	1103.9	1057.3	1023.3	991.9	961.7	933.8	912.2
15°	1367.3	1304.2	1242.9	1175.4	1113.2	1055.0	1014.6	975.1	940.0	911.3	883.7
17.5°	1432.9	1361.3	1280.6	1198.4	1123.4	1054.4	997.8	953.1	909.3	874.3	846.8
20°	1470.0	1388.6	1297.2	1211.9	1129.0	1052.0	989.9	936.5	889.2	852.2	821.0
22.5°	1501.9	1406.7	1312.2	1221.0	1128.6	1045.7	975.2	920.4	869.0	832.8	799.7
25°	1535.1	1421.1	1326.3	1219.3	1116.2	1030.3	951.3	889.2	837.8	795.4	761.4
27.5°	1563.5	1420.1	1307.7	1192.5	1096.6	1010.6	926.2	859.6	805.1	759.0	724.4
30°	1582.4	1422.1	1288.4	1174.4	1077.7	988.8	906.9	839.8	782.6	735.7	703.1
32.5°	1594.3	1420.9	1270.6	1149.1	1047.6	969.1	886.0	816.5	757.7	711.6	680.2
35°	1601.2	1412.2	1240.0	1096.9	999.2	922.7	853.2	781.1	719.4	676.5	641.0
37.5°	1587.4	1393.9	1204.5	1046.6	939.6	864.3	805.8	744.4	685.4	638.1	607.6
40°	1565.7	1382.1	1176.9	1011.1	898.5	826.0	776.2	716.0	657.7	612.8	584.2
42.5°	1524.2	1358.0	1146.4	971.6	855.9	783.3	737.5	687.2	632.1	589.9	561.4
45°	1423.1	1305.6	1100.9	912.4	793.0	717.9	677.5	641.0	591.2	550.2	525.5
47.5°	1282.7	1226.8	1034.9	849.9	727.3	655.1	613.0	583.6	547.2	514.2	490.5
50°	1185.2	1162.1	990.3	807.3	683.4	612.8	572.4	545.7	519.6	486.5	464.9
52.5°	1072.7	1087.0	938.2	763.1	638.8	569.4	531.3	510.2	486.4	459.3	440.4
55°	914.4	966.1	848.2	688.8	572.4	506.2	470.2	451.5	437.7	417.5	401.1
57.5°	766.0	832.0	750.9	612.4	507.2	450.2	415.6	395.1	386.3	375.7	362.9
60°	678.0	743.1	681.5	561.0	463.4	409.1	378.4	361.2	352.3	344.9	334.0
62.5°	599.5	665.3	613.5	509.0	420.3	369.9	343.4	326.5	319.5	315.7	306.4
65°	491.4	548.2	513.7	427.8	358.7	314.3	290.1	278.3	271.9	270.4	264.5
67.5°	400.0	443.2	418.0	354.9	300.5	262.1	241.6	231.5	226.6	226.1	221.7
70°	340.0	380.4	361.2	304.0	257.1	227.0	209.2	200.3	197.4	196.9	194.4
72.5°	293.4	321.6	306.3	258.5	222.3	195.0	182.0	172.7	169.4	170.0	168.3
75°	217.1	238.4	229.4	196.4	167.3	149.5	138.6	132.7	129.8	131.3	129.3
77.5°	156.2	169.7	161.6	138.7	120.8	107.9	100.0	96.3	93.7	93.6	92.7
80°	117.9	125.8	121.4	107.5	92.7	81.9	75.5	73.0	71.5	71.1	70.6
82.5°	84.0	90.7	85.5	76.0	65.9	59.4	55.8	52.5	51.5	51.7	51.2
85°	42.4	44.9	42.9	37.0	33.1	30.1	28.1	26.7	25.6	26.1	25.2
87.5°	18.0	17.9	16.1	14.1	12.9	11.3	10.8	9.7	9.3	9.7	9.7
90°	17.2	14.4	11.7	9.3	7.3	5.1	3.0	0.9	3.0	5.1	7.3
92.5°	20.0	17.9	15.9	15.2	15.7	16.3	16.9	17.5	16.9	16.3	15.7
95°	24.6	22.2	20.0	23.1	31.7	40.2	48.8	57.4	48.8	40.2	31.7
97.5°	60.4	75.5	90.5	99.9	103.8	107.6	111.5	115.4	111.5	107.6	103.8
100°	96.2	128.8	161.5	175.7	171.5	167.4	163.2	159.0	163.2	167.4	171.5
102.5°	133.2	168.8	204.4	220.7	217.7	214.7	211.7	208.7	211.7	214.7	217.7
105°	243.6	262.5	281.3	289.5	287.3	284.9	282.7	280.3	282.7	284.9	287.3
107.5°	371.7	368.7	365.8	363.4	361.6	359.7	357.9	356.0	357.9	359.7	361.6
110°	419.7	417.4	415.1	413.1	411.4	409.7	408.1	406.4	408.1	409.7	411.4





TEST NUMBER: P331982-830

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	467.1	464.9	462.5	460.6	459.1	457.6	456.1	454.6	456.1	457.6	459.1
115°	536.2	534.3	532.5	530.9	529.7	528.4	527.2	525.9	527.2	528.4	529.7
117.5°	604.4	603.3	602.4	601.2	599.6	598.0	596.5	594.9	596.5	598.0	599.6
120°	647.9	647.2	646.7	645.4	643.5	641.6	639.7	637.8	639.7	641.6	643.5
122.5°	690.5	689.7	688.9	687.7	686.2	684.6	683.1	681.6	683.1	684.6	686.2
125°	750.9	750.2	749.3	748.0	746.4	744.7	743.0	741.3	743.0	744.7	746.4
127.5°	809.4	808.3	807.3	806.0	804.3	802.7	801.0	799.3	801.0	802.7	804.3
130°	845.1	844.2	843.4	842.2	840.5	838.8	837.1	835.5	837.1	838.8	840.5
132.5°	879.2	878.5	877.9	876.8	875.1	873.4	871.8	870.1	871.8	873.4	875.1
135°	930.7	929.8	929.0	927.9	926.7	925.4	924.2	922.9	924.2	925.4	926.7
137.5°	976.4	975.9	975.4	974.4	972.9	971.3	969.7	968.1	969.7	971.3	972.9
140°	1005.4	1004.8	1004.2	1003.2	1001.9	1000.7	999.5	998.2	999.5	1000.7	1001.9
142.5°	1033.2	1032.6	1032.0	1031.0	1029.8	1028.5	1027.3	1026.1	1027.3	1028.5	1029.8
145°	1072.6	1072.2	1071.8	1070.8	1069.4	1067.9	1066.5	1065.0	1066.5	1067.9	1069.4
147.5°	1107.0	1106.6	1106.2	1105.5	1104.6	1103.6	1102.7	1101.6	1102.7	1103.6	1104.6
150°	1128.1	1127.7	1127.3	1126.7	1126.1	1125.5	1124.9	1124.3	1124.9	1125.5	1126.1
152.5°	1146.5	1146.2	1146.0	1145.8	1145.5	1145.2	1144.9	1144.5	1144.9	1145.2	1145.5
155°	1171.8	1171.6	1171.4	1171.5	1172.0	1172.3	1172.7	1173.2	1172.7	1172.3	1172.0
157.5°	1194.7	1194.9	1195.0	1195.2	1195.2	1195.3	1195.3	1195.3	1195.3	1195.3	1195.2
160°	1207.5	1207.7	1207.9	1208.1	1208.3	1208.5	1208.7	1208.9	1208.7	1208.5	1208.3
162.5°	1218.7	1219.0	1219.2	1219.6	1220.1	1220.6	1221.2	1221.7	1221.2	1220.6	1220.1
165°	1233.8	1234.0	1234.3	1234.6	1235.3	1235.9	1236.5	1237.2	1236.5	1235.9	1235.3
167.5°	1245.4	1245.4	1245.4	1245.9	1246.7	1247.5	1248.4	1249.2	1248.4	1247.5	1246.7
170°	1252.2	1252.2	1252.2	1252.6	1253.5	1254.3	1255.1	1255.9	1255.1	1254.3	1253.5
172.5°	1256.4	1256.2	1256.0	1256.5	1257.4	1258.5	1259.5	1260.5	1259.5	1258.5	1257.4
175°	1262.2	1261.9	1261.7	1262.2	1263.2	1264.2	1265.3	1266.3	1265.3	1264.2	1263.2
177.5°	1264.5	1264.3	1264.1	1264.5	1265.3	1266.1	1267.0	1267.8	1267.0	1266.1	1265.3
180°	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3



TEST NUMBER: P331982-830

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4
2.5°	1001.5	998.7	994.8	988.8	984.1	976.6	976.6	977.8	977.8	977.4	976.6
5°	971.1	963.7	954.8	944.4	933.6	922.7	920.8	916.8	913.9	911.9	909.4
7.5°	939.1	925.9	912.9	898.4	885.2	874.3	866.7	860.4	856.3	852.0	848.9
10°	917.3	901.0	885.7	870.4	853.7	840.4	832.0	826.0	821.6	817.7	815.7
12.5°	891.6	873.0	856.1	841.6	823.2	809.5	801.5	798.8	793.5	785.2	780.9
15°	854.1	836.9	816.6	794.5	785.5	768.7	759.4	755.0	752.0	745.6	743.6
17.5°	822.1	799.5	776.7	760.2	743.7	730.1	724.8	719.3	715.4	710.1	708.6
20°	796.4	776.2	755.4	737.7	720.4	705.6	701.2	697.2	693.2	690.8	688.8
22.5°	770.3	750.2	732.9	716.3	698.0	688.2	683.4	679.1	676.3	674.7	672.7
25°	733.8	716.0	696.7	681.9	667.1	660.7	657.7	655.3	653.3	650.8	650.4
27.5°	701.0	681.6	666.0	652.2	641.6	636.2	633.4	632.2	632.6	633.5	634.0
30°	676.5	658.7	645.9	634.0	624.2	619.3	618.8	618.8	620.8	621.2	622.3
32.5°	654.0	639.4	626.6	615.1	607.7	604.3	606.1	606.1	607.8	609.0	610.8
35°	621.2	608.4	598.5	588.7	582.3	583.7	584.8	585.7	588.1	591.2	593.1
37.5°	589.9	578.8	568.5	560.8	557.9	560.5	562.9	565.0	567.9	570.1	572.1
40°	567.4	559.0	549.2	542.2	543.3	544.8	546.8	549.2	551.7	553.2	555.2
42.5°	546.5	537.7	530.3	524.5	525.9	527.8	529.0	530.3	533.1	535.7	537.0
45°	514.6	507.7	500.9	497.4	498.4	499.4	500.3	501.8	504.3	506.2	506.8
47.5°	478.8	474.0	469.4	466.0	467.6	467.2	468.4	471.6	472.4	473.6	476.4
50°	455.9	451.5	446.1	445.1	445.1	445.1	445.5	449.5	449.5	451.5	453.5
52.5°	430.6	427.8	424.3	422.5	421.8	421.8	423.9	425.8	426.6	429.4	431.4
55°	393.2	390.3	387.4	385.9	384.8	385.9	389.8	390.8	393.2	394.7	396.2
57.5°	354.3	352.0	349.7	348.8	348.6	350.0	352.1	355.1	355.7	360.2	362.5
60°	328.7	325.2	323.2	323.2	322.3	326.7	325.6	330.6	331.6	334.5	338.0
62.5°	302.2	297.6	296.7	296.7	298.1	299.4	300.8	302.9	305.6	309.2	312.0
65°	259.6	257.1	260.5	260.0	259.0	262.0	262.0	264.5	267.4	270.9	276.4
67.5°	219.1	217.9	218.2	218.2	219.7	221.4	222.7	224.9	228.5	232.1	235.6
70°	191.9	193.4	191.0	192.9	194.4	194.9	195.9	198.9	202.8	205.3	209.2
72.5°	165.5	165.4	165.7	166.5	168.0	168.8	169.8	173.2	177.6	179.6	182.8
75°	127.3	126.8	128.3	128.3	130.7	131.8	132.7	134.2	138.2	141.1	143.5
77.5°	92.9	93.6	93.2	94.9	94.3	94.4	97.5	99.0	99.3	105.2	106.5
80°	70.0	71.1	71.5	72.0	72.6	71.5	75.0	76.4	76.4	79.9	82.4
82.5°	50.3	50.9	52.2	52.7	52.8	53.8	54.1	55.1	56.4	57.9	61.1
85°	25.2	26.7	27.1	26.7	27.1	26.1	27.6	28.1	28.7	28.7	28.7
87.5°	9.8	10.7	10.7	11.7	11.9	12.8	13.0	12.3	12.5	13.9	12.4
90°	9.3	11.7	14.4	17.2	19.9	22.6	23.4	24.2	25.1	25.9	26.6
92.5°	15.2	15.9	17.9	20.0	22.1	24.1	25.4	26.8	28.1	29.4	30.3
95°	23.1	20.0	22.2	24.6	26.9	29.1	30.6	32.0	33.6	35.1	35.7
97.5°	99.9	90.5	75.5	60.4	45.3	30.3	32.0	33.6	35.3	36.9	37.9
100°	175.7	161.5	128.8	96.2	63.6	31.0	32.7	34.4	36.1	37.7	38.6
102.5°	220.7	204.4	168.8	133.2	97.6	61.9	56.7	51.6	46.4	41.2	38.7
105°	289.5	281.3	262.5	243.6	224.9	206.0	169.0	132.1	95.0	58.1	39.7
107.5°	363.4	365.8	368.7	371.7	374.7	377.7	350.5	323.4	296.2	269.1	241.6
110°	413.1	415.1	417.4	419.7	422.0	424.3	417.4	410.5	403.6	396.7	378.3



TEST NUMBER: P331982-830

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	460.6	462.5	464.9	467.1	469.4	471.7	471.8	471.9	472.1	472.2	469.1
115°	530.9	532.5	534.3	536.2	538.1	540.0	542.2	544.2	546.3	548.4	549.9
117.5°	601.2	602.4	603.3	604.4	605.3	606.2	607.9	609.6	611.2	612.9	613.9
120°	645.4	646.7	647.2	647.9	648.6	649.1	650.8	652.5	654.1	655.8	656.7
122.5°	687.7	688.9	689.7	690.5	691.3	692.0	693.2	694.4	695.6	696.7	697.4
125°	748.0	749.3	750.2	750.9	751.8	752.6	753.1	753.5	753.8	754.3	754.7
127.5°	806.0	807.3	808.3	809.4	810.3	811.3	812.0	812.7	813.3	814.0	814.2
130°	842.2	843.4	844.2	845.1	845.8	846.7	847.5	848.4	849.2	850.1	850.3
132.5°	876.8	877.9	878.5	879.2	880.0	880.6	881.5	882.2	883.1	883.9	884.0
135°	927.9	929.0	929.8	930.7	931.5	932.4	932.9	933.6	934.2	934.8	934.8
137.5°	974.4	975.4	975.9	976.4	976.9	977.3	978.3	979.3	980.3	981.3	981.6
140°	1003.2	1004.2	1004.8	1005.4	1006.1	1006.6	1007.5	1008.3	1009.2	1010.0	1010.2
142.5°	1031.0	1032.0	1032.6	1033.2	1033.9	1034.5	1035.2	1035.9	1036.5	1037.2	1037.2
145°	1070.8	1071.8	1072.2	1072.6	1073.0	1073.5	1073.8	1074.3	1074.7	1075.2	1075.3
147.5°	1105.5	1106.2	1106.6	1107.0	1107.5	1107.9	1108.3	1108.7	1109.1	1109.6	1109.3
150°	1126.7	1127.3	1127.7	1128.1	1128.5	1129.0	1129.4	1129.8	1130.2	1130.7	1130.5
152.5°	1145.8	1146.0	1146.2	1146.5	1146.8	1147.0	1147.7	1148.5	1149.2	1150.0	1149.9
155°	1171.5	1171.4	1171.6	1171.8	1172.1	1172.2	1173.3	1174.3	1175.4	1176.4	1176.3
157.5°	1195.2	1195.0	1194.9	1194.7	1194.5	1194.2	1195.5	1196.7	1198.0	1199.3	1199.1
160°	1208.1	1207.9	1207.7	1207.5	1207.2	1207.0	1208.3	1209.6	1210.8	1212.0	1211.9
162.5°	1219.6	1219.2	1219.0	1218.7	1218.5	1218.3	1219.7	1221.2	1222.6	1224.0	1224.1
165°	1234.6	1234.3	1234.0	1233.8	1233.6	1233.4	1235.0	1236.7	1238.4	1240.1	1240.2
167.5°	1245.9	1245.4	1245.4	1245.4	1245.4	1245.4	1247.1	1248.8	1250.5	1252.1	1252.1
170°	1252.6	1252.2	1252.2	1252.2	1252.2	1252.2	1253.9	1255.6	1257.3	1258.9	1258.9
172.5°	1256.5	1256.0	1256.2	1256.4	1256.5	1256.7	1258.4	1260.1	1261.7	1263.4	1263.3
175°	1262.2	1261.7	1261.9	1262.2	1262.3	1262.5	1264.0	1265.5	1267.0	1268.4	1268.3
177.5°	1264.5	1264.1	1264.3	1264.5	1264.6	1264.8	1266.1	1267.4	1268.9	1270.2	1270.0
180°	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3



TEST NUMBER: P331982-830

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4
2.5°	973.8	973.5	976.2	974.2	976.2	973.5	973.8	976.6	977.4	977.8	977.8
5°	906.4	908.0	903.0	903.0	903.0	908.0	906.4	909.4	911.9	913.9	916.8
7.5°	846.4	844.2	844.4	841.8	844.4	844.2	846.4	848.9	852.0	856.3	860.4
10°	809.7	806.8	805.8	806.3	805.8	806.8	809.7	815.7	817.7	821.6	826.0
12.5°	779.3	778.7	772.2	772.3	772.2	778.7	779.3	780.9	785.2	793.5	798.8
15°	743.6	734.2	733.2	736.2	733.2	734.2	743.6	743.6	745.6	752.0	755.0
17.5°	707.8	702.9	703.1	701.6	703.1	702.9	707.8	708.6	710.1	715.4	719.3
20°	688.8	685.9	685.4	681.9	685.4	685.9	688.8	688.8	690.8	693.2	697.2
22.5°	671.5	670.5	670.8	666.9	670.8	670.5	671.5	672.7	674.7	676.3	679.1
25°	649.9	652.3	650.4	650.4	650.4	652.3	649.9	650.4	650.8	653.3	655.3
27.5°	635.3	635.2	634.1	634.1	634.1	635.2	635.3	634.0	633.5	632.6	632.2
30°	624.2	623.7	624.7	624.7	624.7	623.7	624.2	622.3	621.2	620.8	618.8
32.5°	613.1	613.9	614.1	614.4	614.1	613.9	613.1	610.8	609.0	607.8	606.1
35°	596.1	596.5	598.0	597.1	598.0	596.5	596.1	593.1	591.2	588.1	585.7
37.5°	573.0	575.2	574.8	575.5	574.8	575.2	573.0	572.1	570.1	567.9	565.0
40°	555.6	557.1	556.6	556.6	556.6	557.1	555.6	555.2	553.2	551.7	549.2
42.5°	537.8	538.9	537.6	536.9	537.6	538.9	537.8	537.0	535.7	533.1	530.3
45°	508.7	507.7	509.3	507.3	509.3	507.7	508.7	506.8	506.2	504.3	501.8
47.5°	476.2	477.1	477.6	479.0	477.6	477.1	476.2	476.4	473.6	472.4	471.6
50°	454.5	457.4	457.4	456.9	457.4	457.4	454.5	453.5	451.5	449.5	449.5
52.5°	433.1	434.5	436.5	436.4	436.5	434.5	433.1	431.4	429.4	426.6	425.8
55°	400.2	401.1	402.2	402.7	402.2	401.1	400.2	396.2	394.7	393.2	390.8
57.5°	366.0	365.6	368.0	368.7	368.0	365.6	366.0	362.5	360.2	355.7	355.1
60°	342.0	342.0	345.9	347.4	345.9	342.0	342.0	338.0	334.5	331.6	330.6
62.5°	316.3	317.9	321.8	319.7	321.8	317.9	316.3	312.0	309.2	305.6	302.9
65°	278.8	282.8	282.3	284.2	282.3	282.8	278.8	276.4	270.9	267.4	264.5
67.5°	239.6	242.0	245.6	245.9	245.6	242.0	239.6	235.6	232.1	228.5	224.9
70°	213.2	215.7	217.6	219.0	217.6	215.7	213.2	209.2	205.3	202.8	198.9
72.5°	187.5	188.8	193.5	191.4	193.5	188.8	187.5	182.8	179.6	177.6	173.2
75°	147.0	150.5	153.4	151.9	153.4	150.5	147.0	143.5	141.1	138.2	134.2
77.5°	108.8	112.2	113.6	112.4	113.6	112.2	108.8	106.5	105.2	99.3	99.0
80°	85.9	85.4	88.3	87.8	88.3	85.4	85.9	82.4	79.9	76.4	76.4
82.5°	63.0	62.5	63.8	64.2	63.8	62.5	63.0	61.1	57.9	56.4	55.1
85°	30.6	32.0	30.1	29.6	30.1	32.0	30.6	28.7	28.7	28.7	28.1
87.5°	12.5	12.6	12.3	12.0	12.3	12.6	12.5	12.4	13.9	12.5	12.3
90°	27.0	27.4	27.8	28.2	27.8	27.4	27.0	26.6	25.9	25.1	24.2
92.5°	30.4	30.7	31.0	31.2	31.0	30.7	30.4	30.3	29.4	28.1	26.8
95°	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.1	33.6	32.0
97.5°	38.2	38.4	38.5	38.7	38.5	38.4	38.2	37.9	36.9	35.3	33.6
100°	38.9	39.1	39.3	39.5	39.3	39.1	38.9	38.6	37.7	36.1	34.4
102.5°	39.1	39.5	39.9	40.2	39.9	39.5	39.1	38.7	41.2	46.4	51.6
105°	40.2	40.5	41.0	41.4	41.0	40.5	40.2	39.7	58.1	95.0	132.1
107.5°	213.7	185.8	157.9	130.0	157.9	185.8	213.7	241.6	269.1	296.2	323.4
110°	348.4	318.5	288.6	258.7	288.6	318.5	348.4	378.3	396.7	403.6	410.5



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	462.8	456.5	450.2	443.8	450.2	456.5	462.8	469.1	472.2	472.1	471.9
115°	550.6	551.5	552.3	553.2	552.3	551.5	550.6	549.9	548.4	546.3	544.2
117.5°	614.1	614.2	614.3	614.5	614.3	614.2	614.1	613.9	612.9	611.2	609.6
120°	656.7	656.7	656.7	656.7	656.7	656.7	656.7	656.7	655.8	654.1	652.5
122.5°	697.6	697.8	697.9	698.0	697.9	697.8	697.6	697.4	696.7	695.6	694.4
125°	755.2	755.5	756.0	756.4	756.0	755.5	755.2	754.7	754.3	753.8	753.5
127.5°	813.7	813.3	812.8	812.5	812.8	813.3	813.7	814.2	814.0	813.3	812.7
130°	849.9	849.4	849.0	848.6	849.0	849.4	849.9	850.3	850.1	849.2	848.4
132.5°	883.4	882.9	882.3	881.7	882.3	882.9	883.4	884.0	883.9	883.1	882.2
135°	934.2	933.6	932.9	932.4	932.9	933.6	934.2	934.8	934.8	934.2	933.6
137.5°	981.2	980.8	980.3	980.0	980.3	980.8	981.2	981.6	981.3	980.3	979.3
140°	1009.7	1009.4	1009.0	1008.5	1009.0	1009.4	1009.7	1010.2	1010.0	1009.2	1008.3
142.5°	1036.6	1036.0	1035.5	1034.9	1035.5	1036.0	1036.6	1037.2	1037.2	1036.5	1035.9
145°	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.2	1074.7	1074.3
147.5°	1108.3	1107.4	1106.4	1105.4	1106.4	1107.4	1108.3	1109.3	1109.6	1109.1	1108.7
150°	1129.9	1129.3	1128.6	1128.0	1128.6	1129.3	1129.9	1130.5	1130.7	1130.2	1129.8
152.5°	1149.0	1148.0	1147.1	1146.0	1147.1	1148.0	1149.0	1149.9	1150.0	1149.2	1148.5
155°	1175.1	1173.8	1172.5	1171.3	1172.5	1173.8	1175.1	1176.3	1176.4	1175.4	1174.3
157.5°	1197.4	1195.8	1194.2	1192.6	1194.2	1195.8	1197.4	1199.1	1199.3	1198.0	1196.7
160°	1210.5	1209.0	1207.6	1206.1	1207.6	1209.0	1210.5	1211.9	1212.0	1210.8	1209.6
162.5°	1222.8	1221.4	1220.2	1218.9	1220.2	1221.4	1222.8	1224.1	1224.0	1222.6	1221.2
165°	1238.7	1237.3	1235.8	1234.4	1235.8	1237.3	1238.7	1240.2	1240.1	1238.4	1236.7
167.5°	1250.5	1248.8	1247.1	1245.4	1247.1	1248.8	1250.5	1252.1	1252.1	1250.5	1248.8
170°	1257.3	1255.6	1253.9	1252.2	1253.9	1255.6	1257.3	1258.9	1258.9	1257.3	1255.6
172.5°	1261.5	1259.6	1257.8	1255.9	1257.8	1259.6	1261.5	1263.3	1263.4	1261.7	1260.1
175°	1266.6	1265.0	1263.3	1261.6	1263.3	1265.0	1266.6	1268.3	1268.4	1267.0	1265.5
177.5°	1268.3	1266.7	1265.0	1263.3	1265.0	1266.7	1268.3	1270.0	1270.2	1268.9	1267.4
180°	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4
2.5°	976.6	976.6	984.1	988.8	994.8	998.7	1001.5	1004.3	1009.0	1015.3	1022.4
5°	920.8	922.7	933.6	944.4	954.8	963.7	971.1	980.0	990.8	1004.2	1019.0
7.5°	866.7	874.3	885.2	898.4	912.9	925.9	939.1	953.7	968.9	988.5	1009.3
10°	832.0	840.4	853.7	870.4	885.7	901.0	917.3	933.1	952.3	975.5	1002.2
12.5°	801.5	809.5	823.2	841.6	856.1	873.0	891.6	912.2	933.8	961.7	991.9
15°	759.4	768.7	785.5	794.5	816.6	836.9	854.1	883.7	911.3	940.0	975.1
17.5°	724.8	730.1	743.7	760.2	776.7	799.5	822.1	846.8	874.3	909.3	953.1
20°	701.2	705.6	720.4	737.7	755.4	776.2	796.4	821.0	852.2	889.2	936.5
22.5°	683.4	688.2	698.0	716.3	732.9	750.2	770.3	799.7	832.8	869.0	920.4
25°	657.7	660.7	667.1	681.9	696.7	716.0	733.8	761.4	795.4	837.8	889.2
27.5°	633.4	636.2	641.6	652.2	666.0	681.6	701.0	724.4	759.0	805.1	859.6
30°	618.8	619.3	624.2	634.0	645.9	658.7	676.5	703.1	735.7	782.6	839.8
32.5°	606.1	604.3	607.7	615.1	626.6	639.4	654.0	680.2	711.6	757.7	816.5
35°	584.8	583.7	582.3	588.7	598.5	608.4	621.2	641.0	676.5	719.4	781.1
37.5°	562.9	560.5	557.9	560.8	568.5	578.8	589.9	607.6	638.1	685.4	744.4
40°	546.8	544.8	543.3	542.2	549.2	559.0	567.4	584.2	612.8	657.7	716.0
42.5°	529.0	527.8	525.9	524.5	530.3	537.7	546.5	561.4	589.9	632.1	687.2
45°	500.3	499.4	498.4	497.4	500.9	507.7	514.6	525.5	550.2	591.2	641.0
47.5°	468.4	467.2	467.6	466.0	469.4	474.0	478.8	490.5	514.2	547.2	583.6
50°	445.5	445.1	445.1	445.1	446.1	451.5	455.9	464.9	486.5	519.6	545.7
52.5°	423.9	421.8	421.8	422.5	424.3	427.8	430.6	440.4	459.3	486.4	510.2
55°	389.8	385.9	384.8	385.9	387.4	390.3	393.2	401.1	417.5	437.7	451.5
57.5°	352.1	350.0	348.6	348.8	349.7	352.0	354.3	362.9	375.7	386.3	395.1
60°	325.6	326.7	322.3	323.2	323.2	325.2	328.7	334.0	344.9	352.3	361.2
62.5°	300.8	299.4	298.1	296.7	296.7	297.6	302.2	306.4	315.7	319.5	326.5
65°	262.0	262.0	259.0	260.0	260.5	257.1	259.6	264.5	270.4	271.9	278.3
67.5°	222.7	221.4	219.7	218.2	218.2	217.9	219.1	221.7	226.1	226.6	231.5
70°	195.9	194.9	194.4	192.9	191.0	193.4	191.9	194.4	196.9	197.4	200.3
72.5°	169.8	168.8	168.0	166.5	165.7	165.4	165.5	168.3	170.0	169.4	172.7
75°	132.7	131.8	130.7	128.3	128.3	126.8	127.3	129.3	131.3	129.8	132.7
77.5°	97.5	94.4	94.3	94.9	93.2	93.6	92.9	92.7	93.6	93.7	96.3
80°	75.0	71.5	72.6	72.0	71.5	71.1	70.0	70.6	71.1	71.5	73.0
82.5°	54.1	53.8	52.8	52.7	52.2	50.9	50.3	51.2	51.7	51.5	52.5
85°	27.6	26.1	27.1	26.7	27.1	26.7	25.2	25.2	26.1	25.6	26.7
87.5°	13.0	12.8	11.9	11.7	10.7	10.7	9.8	9.7	9.7	9.3	9.7
90°	23.4	22.6	19.9	17.2	14.4	11.7	9.3	7.3	5.1	3.0	0.9
92.5°	25.4	24.1	22.1	20.0	17.9	15.9	15.2	15.7	16.3	16.9	17.5
95°	30.6	29.1	26.9	24.6	22.2	20.0	23.1	31.7	40.2	48.8	57.4
97.5°	32.0	30.3	45.3	60.4	75.5	90.5	99.9	103.8	107.6	111.5	115.4
100°	32.7	31.0	63.6	96.2	128.8	161.5	175.7	171.5	167.4	163.2	159.0
102.5°	56.7	61.9	97.6	133.2	168.8	204.4	220.7	217.7	214.7	211.7	208.7
105°	169.0	206.0	224.9	243.6	262.5	281.3	289.5	287.3	284.9	282.7	280.3
107.5°	350.5	377.7	374.7	371.7	368.7	365.8	363.4	361.6	359.7	357.9	356.0
110°	417.4	424.3	422.0	419.7	417.4	415.1	413.1	411.4	409.7	408.1	406.4



TEST NUMBER: P331982-830

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	471.8	471.7	469.4	467.1	464.9	462.5	460.6	459.1	457.6	456.1	454.6
115°	542.2	540.0	538.1	536.2	534.3	532.5	530.9	529.7	528.4	527.2	525.9
117.5°	607.9	606.2	605.3	604.4	603.3	602.4	601.2	599.6	598.0	596.5	594.9
120°	650.8	649.1	648.6	647.9	647.2	646.7	645.4	643.5	641.6	639.7	637.8
122.5°	693.2	692.0	691.3	690.5	689.7	688.9	687.7	686.2	684.6	683.1	681.6
125°	753.1	752.6	751.8	750.9	750.2	749.3	748.0	746.4	744.7	743.0	741.3
127.5°	812.0	811.3	810.3	809.4	808.3	807.3	806.0	804.3	802.7	801.0	799.3
130°	847.5	846.7	845.8	845.1	844.2	843.4	842.2	840.5	838.8	837.1	835.5
132.5°	881.5	880.6	880.0	879.2	878.5	877.9	876.8	875.1	873.4	871.8	870.1
135°	932.9	932.4	931.5	930.7	929.8	929.0	927.9	926.7	925.4	924.2	922.9
137.5°	978.3	977.3	976.9	976.4	975.9	975.4	974.4	972.9	971.3	969.7	968.1
140°	1007.5	1006.6	1006.1	1005.4	1004.8	1004.2	1003.2	1001.9	1000.7	999.5	998.2
142.5°	1035.2	1034.5	1033.9	1033.2	1032.6	1032.0	1031.0	1029.8	1028.5	1027.3	1026.1
145°	1073.8	1073.5	1073.0	1072.6	1072.2	1071.8	1070.8	1069.4	1067.9	1066.5	1065.0
147.5°	1108.3	1107.9	1107.5	1107.0	1106.6	1106.2	1105.5	1104.6	1103.6	1102.7	1101.6
150°	1129.4	1129.0	1128.5	1128.1	1127.7	1127.3	1126.7	1126.1	1125.5	1124.9	1124.3
152.5°	1147.7	1147.0	1146.8	1146.5	1146.2	1146.0	1145.8	1145.5	1145.2	1144.9	1144.5
155°	1173.3	1172.2	1172.1	1171.8	1171.6	1171.4	1171.5	1172.0	1172.3	1172.7	1173.2
157.5°	1195.5	1194.2	1194.5	1194.7	1194.9	1195.0	1195.2	1195.2	1195.3	1195.3	1195.3
160°	1208.3	1207.0	1207.2	1207.5	1207.7	1207.9	1208.1	1208.3	1208.5	1208.7	1208.9
162.5°	1219.7	1218.3	1218.5	1218.7	1219.0	1219.2	1219.6	1220.1	1220.6	1221.2	1221.7
165°	1235.0	1233.4	1233.6	1233.8	1234.0	1234.3	1234.6	1235.3	1235.9	1236.5	1237.2
167.5°	1247.1	1245.4	1245.4	1245.4	1245.4	1245.4	1245.9	1246.7	1247.5	1248.4	1249.2
170°	1253.9	1252.2	1252.2	1252.2	1252.2	1252.2	1252.6	1253.5	1254.3	1255.1	1255.9
172.5°	1258.4	1256.7	1256.5	1256.4	1256.2	1256.0	1256.5	1257.4	1258.5	1259.5	1260.5
175°	1264.0	1262.5	1262.3	1262.2	1261.9	1261.7	1262.2	1263.2	1264.2	1265.3	1266.3
177.5°	1266.1	1264.8	1264.6	1264.5	1264.3	1264.1	1264.5	1265.3	1266.1	1267.0	1267.8
180°	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3



TEST NUMBER: P331982-830

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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4
2.5°	1024.7	1026.7	1033.5	1038.2	1043.7	1046.9	1050.0	1052.4	1055.6	1056.3	1067.8
5°	1029.4	1039.2	1056.5	1069.3	1085.1	1102.3	1114.2	1119.6	1133.9	1145.8	1169.4
7.5°	1028.0	1049.0	1075.1	1102.1	1131.1	1158.0	1181.3	1208.9	1228.6	1258.1	1287.1
10°	1026.8	1055.0	1088.5	1123.0	1163.6	1201.0	1234.5	1272.1	1303.2	1344.2	1379.1
12.5°	1023.3	1057.3	1103.9	1144.8	1193.9	1245.7	1295.3	1343.5	1371.0	1439.3	1471.5
15°	1014.6	1055.0	1113.2	1175.4	1242.9	1304.2	1367.3	1417.7	1499.0	1558.8	1596.8
17.5°	997.8	1054.4	1123.4	1198.4	1280.6	1361.3	1432.9	1509.2	1595.5	1667.8	1744.8
20°	989.9	1052.0	1129.0	1211.9	1297.2	1388.6	1470.0	1561.7	1656.0	1727.0	1825.7
22.5°	975.2	1045.7	1128.6	1221.0	1312.2	1406.7	1501.9	1594.5	1703.4	1801.3	1895.2
25°	951.3	1030.3	1116.2	1219.3	1326.3	1421.1	1535.1	1657.9	1771.4	1897.2	1991.0
27.5°	926.2	1010.6	1096.6	1192.5	1307.7	1420.1	1563.5	1702.3	1841.2	1949.7	2019.1
30°	906.9	988.8	1077.7	1174.4	1288.4	1422.1	1582.4	1733.9	1869.2	1962.4	2001.4
32.5°	886.0	969.1	1047.6	1149.1	1270.6	1420.9	1594.3	1752.5	1870.8	1932.8	1925.2
35°	853.2	922.7	999.2	1096.9	1240.0	1412.2	1601.2	1754.2	1826.7	1813.4	1712.7
37.5°	805.8	864.3	939.6	1046.6	1204.5	1393.9	1587.4	1702.1	1697.4	1588.9	1443.1
40°	776.2	826.0	898.5	1011.1	1176.9	1382.1	1565.7	1640.2	1577.1	1425.5	1250.8
42.5°	737.5	783.3	855.9	971.6	1146.4	1358.0	1524.2	1545.9	1422.3	1247.9	1087.8
45°	677.5	717.9	793.0	912.4	1100.9	1305.6	1423.1	1370.3	1204.0	1023.9	902.0
47.5°	613.0	655.1	727.3	849.9	1034.9	1226.8	1282.7	1170.4	999.7	853.7	741.8
50°	572.4	612.8	683.4	807.3	990.3	1162.1	1185.2	1040.2	883.3	755.0	663.2
52.5°	531.3	569.4	638.8	763.1	938.2	1087.0	1072.7	924.9	780.6	671.3	599.3
55°	470.2	506.2	572.4	688.8	848.2	966.1	914.4	773.3	653.8	568.9	514.2
57.5°	415.6	450.2	507.2	612.4	750.9	832.0	766.0	647.1	552.1	486.8	446.0
60°	378.4	409.1	463.4	561.0	681.5	743.1	678.0	572.9	492.9	440.6	404.2
62.5°	343.4	369.9	420.3	509.0	613.5	665.3	599.5	510.5	442.4	396.1	365.0
65°	290.1	314.3	358.7	427.8	513.7	548.2	491.4	419.4	366.6	332.1	311.3
67.5°	241.6	262.1	300.5	354.9	418.0	443.2	400.0	344.2	304.4	276.7	260.2
70°	209.2	227.0	257.1	304.0	361.2	380.4	340.0	294.1	264.9	242.8	227.4
72.5°	182.0	195.0	222.3	258.5	306.3	321.6	293.4	253.1	225.9	209.2	197.1
75°	138.6	149.5	167.3	196.4	229.4	238.4	217.1	191.9	173.7	161.8	152.5
77.5°	100.0	107.9	120.8	138.7	161.6	169.7	156.2	139.4	126.1	118.1	112.9
80°	75.5	81.9	92.7	107.5	121.4	125.8	117.9	105.1	95.8	91.3	86.8
82.5°	55.8	59.4	65.9	76.0	85.5	90.7	84.0	76.3	71.3	67.2	65.5
85°	28.1	30.1	33.1	37.0	42.9	44.9	42.4	40.4	37.5	35.1	35.1
87.5°	10.8	11.3	12.9	14.1	16.1	17.9	18.0	17.8	17.9	17.7	17.4
90°	3.0	5.1	7.3	9.3	11.7	14.4	17.2	19.9	22.6	23.4	24.2
92.5°	16.9	16.3	15.7	15.2	15.9	17.9	20.0	22.1	24.1	25.4	26.8
95°	48.8	40.2	31.7	23.1	20.0	22.2	24.6	26.9	29.1	30.6	32.0
97.5°	111.5	107.6	103.8	99.9	90.5	75.5	60.4	45.3	30.3	32.0	33.6
100°	163.2	167.4	171.5	175.7	161.5	128.8	96.2	63.6	31.0	32.7	34.4
102.5°	211.7	214.7	217.7	220.7	204.4	168.8	133.2	97.6	61.9	56.7	51.6
105°	282.7	284.9	287.3	289.5	281.3	262.5	243.6	224.9	206.0	169.0	132.1
107.5°	357.9	359.7	361.6	363.4	365.8	368.7	371.7	374.7	377.7	350.5	323.4
110°	408.1	409.7	411.4	413.1	415.1	417.4	419.7	422.0	424.3	417.4	410.5





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	456.1	457.6	459.1	460.6	462.5	464.9	467.1	469.4	471.7	471.8	471.9
115°	527.2	528.4	529.7	530.9	532.5	534.3	536.2	538.1	540.0	542.2	544.2
117.5°	596.5	598.0	599.6	601.2	602.4	603.3	604.4	605.3	606.2	607.9	609.6
120°	639.7	641.6	643.5	645.4	646.7	647.2	647.9	648.6	649.1	650.8	652.5
122.5°	683.1	684.6	686.2	687.7	688.9	689.7	690.5	691.3	692.0	693.2	694.4
125°	743.0	744.7	746.4	748.0	749.3	750.2	750.9	751.8	752.6	753.1	753.5
127.5°	801.0	802.7	804.3	806.0	807.3	808.3	809.4	810.3	811.3	812.0	812.7
130°	837.1	838.8	840.5	842.2	843.4	844.2	845.1	845.8	846.7	847.5	848.4
132.5°	871.8	873.4	875.1	876.8	877.9	878.5	879.2	880.0	880.6	881.5	882.2
135°	924.2	925.4	926.7	927.9	929.0	929.8	930.7	931.5	932.4	932.9	933.6
137.5°	969.7	971.3	972.9	974.4	975.4	975.9	976.4	976.9	977.3	978.3	979.3
140°	999.5	1000.7	1001.9	1003.2	1004.2	1004.8	1005.4	1006.1	1006.6	1007.5	1008.3
142.5°	1027.3	1028.5	1029.8	1031.0	1032.0	1032.6	1033.2	1033.9	1034.5	1035.2	1035.9
145°	1066.5	1067.9	1069.4	1070.8	1071.8	1072.2	1072.6	1073.0	1073.5	1073.8	1074.3
147.5°	1102.7	1103.6	1104.6	1105.5	1106.2	1106.6	1107.0	1107.5	1107.9	1108.3	1108.7
150°	1124.9	1125.5	1126.1	1126.7	1127.3	1127.7	1128.1	1128.5	1129.0	1129.4	1129.8
152.5°	1144.9	1145.2	1145.5	1145.8	1146.0	1146.2	1146.5	1146.8	1147.0	1147.7	1148.5
155°	1172.7	1172.3	1172.0	1171.5	1171.4	1171.6	1171.8	1172.1	1172.2	1173.3	1174.3
157.5°	1195.3	1195.3	1195.2	1195.2	1195.0	1194.9	1194.7	1194.5	1194.2	1195.5	1196.7
160°	1208.7	1208.5	1208.3	1208.1	1207.9	1207.7	1207.5	1207.2	1207.0	1208.3	1209.6
162.5°	1221.2	1220.6	1220.1	1219.6	1219.2	1219.0	1218.7	1218.5	1218.3	1219.7	1221.2
165°	1236.5	1235.9	1235.3	1234.6	1234.3	1234.0	1233.8	1233.6	1233.4	1235.0	1236.7
167.5°	1248.4	1247.5	1246.7	1245.9	1245.4	1245.4	1245.4	1245.4	1245.4	1247.1	1248.8
170°	1255.1	1254.3	1253.5	1252.6	1252.2	1252.2	1252.2	1252.2	1252.2	1253.9	1255.6
172.5°	1259.5	1258.5	1257.4	1256.5	1256.0	1256.2	1256.4	1256.5	1256.7	1258.4	1260.1
175°	1265.3	1264.2	1263.2	1262.2	1261.7	1261.9	1262.2	1262.3	1262.5	1264.0	1265.5
177.5°	1267.0	1266.1	1265.3	1264.5	1264.1	1264.3	1264.5	1264.6	1264.8	1266.1	1267.4
180°	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4
2.5°	1071.8	1072.1	1076.5	1079.7	1078.1	1080.1	1080.8
5°	1170.9	1188.7	1198.1	1204.9	1205.5	1206.0	1209.9
7.5°	1311.5	1330.6	1344.5	1365.6	1372.0	1379.1	1377.1
10°	1414.2	1442.3	1466.5	1479.3	1493.2	1513.3	1497.1
12.5°	1510.1	1560.0	1596.8	1616.7	1629.8	1633.8	1625.8
15°	1668.3	1733.4	1768.5	1767.5	1811.9	1831.2	1801.0
17.5°	1813.4	1873.5	1921.7	1946.4	1983.3	1991.5	1987.7
20°	1902.2	1967.8	2005.4	2047.8	2067.0	2084.2	2087.3
22.5°	1978.8	2037.7	2077.9	2113.3	2129.4	2137.6	2142.5
25°	2057.7	2104.0	2128.2	2140.5	2144.9	2144.0	2137.6
27.5°	2052.2	2055.8	2029.1	2003.0	1979.6	1953.2	1944.2
30°	1998.9	1957.5	1883.5	1841.5	1779.8	1731.0	1750.7
32.5°	1858.8	1776.3	1693.2	1601.5	1525.6	1504.0	1482.2
35°	1586.4	1441.3	1356.5	1257.7	1218.3	1178.8	1151.7
37.5°	1283.5	1171.2	1070.5	1006.0	966.5	941.5	928.0
40°	1109.7	1008.6	925.7	873.4	843.3	815.2	811.2
42.5°	971.2	877.1	814.7	773.1	744.2	732.3	723.6
45°	795.4	729.8	687.9	658.3	639.0	631.6	621.7
47.5°	673.3	626.9	595.4	575.2	560.7	555.3	554.4
50°	604.9	566.5	543.3	527.4	516.1	514.2	506.2
52.5°	553.6	520.3	502.2	488.4	480.2	474.7	472.3
55°	480.6	458.4	442.1	434.2	427.8	422.4	422.4
57.5°	420.5	402.0	391.2	384.5	382.5	378.6	376.2
60°	383.4	367.6	359.2	353.3	349.4	349.9	345.4
62.5°	347.0	336.9	328.9	322.9	318.2	318.3	318.6
65°	295.6	287.7	281.7	279.7	276.8	273.3	274.4
67.5°	250.4	243.1	238.5	235.1	234.1	232.2	235.1
70°	218.1	212.6	209.2	206.2	205.3	205.8	208.2
72.5°	188.5	184.6	182.4	181.0	178.8	178.9	180.6
75°	148.1	145.1	143.1	141.6	141.1	141.1	141.1
77.5°	108.8	108.1	107.2	105.0	105.1	105.7	105.8
80°	85.9	84.4	83.9	82.9	81.4	80.4	82.9
82.5°	64.2	62.7	62.2	62.0	59.7	59.5	61.5
85°	34.5	33.1	33.6	33.1	33.1	32.6	32.6
87.5°	17.2	17.1	16.8	17.2	17.0	16.6	17.5
90°	25.1	25.9	26.6	27.0	27.4	27.8	28.2
92.5°	28.1	29.4	30.3	30.4	30.7	31.0	31.2
95°	33.6	35.1	35.7	35.7	35.7	35.7	35.7
97.5°	35.3	36.9	37.9	38.2	38.4	38.5	38.7
100°	36.1	37.7	38.6	38.9	39.1	39.3	39.5
102.5°	46.4	41.2	38.7	39.1	39.5	39.9	40.2
105°	95.0	58.1	39.7	40.2	40.5	41.0	41.4
107.5°	296.2	269.1	241.6	213.7	185.8	157.9	130.0
110°	403.6	396.7	378.3	348.4	318.5	288.6	258.7



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	472.1	472.2	469.1	462.8	456.5	450.2	443.8
115°	546.3	548.4	549.9	550.6	551.5	552.3	553.2
117.5°	611.2	612.9	613.9	614.1	614.2	614.3	614.5
120°	654.1	655.8	656.7	656.7	656.7	656.7	656.7
122.5°	695.6	696.7	697.4	697.6	697.8	697.9	698.0
125°	753.8	754.3	754.7	755.2	755.5	756.0	756.4
127.5°	813.3	814.0	814.2	813.7	813.3	812.8	812.5
130°	849.2	850.1	850.3	849.9	849.4	849.0	848.6
132.5°	883.1	883.9	884.0	883.4	882.9	882.3	881.7
135°	934.2	934.8	934.8	934.2	933.6	932.9	932.4
137.5°	980.3	981.3	981.6	981.2	980.8	980.3	980.0
140°	1009.2	1010.0	1010.2	1009.7	1009.4	1009.0	1008.5
142.5°	1036.5	1037.2	1037.2	1036.6	1036.0	1035.5	1034.9
145°	1074.7	1075.2	1075.3	1075.3	1075.3	1075.3	1075.3
147.5°	1109.1	1109.6	1109.3	1108.3	1107.4	1106.4	1105.4
150°	1130.2	1130.7	1130.5	1129.9	1129.3	1128.6	1128.0
152.5°	1149.2	1150.0	1149.9	1149.0	1148.0	1147.1	1146.0
155°	1175.4	1176.4	1176.3	1175.1	1173.8	1172.5	1171.3
157.5°	1198.0	1199.3	1199.1	1197.4	1195.8	1194.2	1192.6
160°	1210.8	1212.0	1211.9	1210.5	1209.0	1207.6	1206.1
162.5°	1222.6	1224.0	1224.1	1222.8	1221.4	1220.2	1218.9
165°	1238.4	1240.1	1240.2	1238.7	1237.3	1235.8	1234.4
167.5°	1250.5	1252.1	1252.1	1250.5	1248.8	1247.1	1245.4
170°	1257.3	1258.9	1258.9	1257.3	1255.6	1253.9	1252.2
172.5°	1261.7	1263.4	1263.3	1261.5	1259.6	1257.8	1255.9
175°	1267.0	1268.4	1268.3	1266.6	1265.0	1263.3	1261.6
177.5°	1268.9	1270.2	1270.0	1268.3	1266.7	1265.0	1263.3
180°	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3

(END OF REPORT)