

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: P331992

Luminaire Tested: **S123DIP-S775D1195U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331992  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123DIP-S775D1195U835-4F0-1E-UDD-A1  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 775 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1195 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7363.7 lumens  
Efficiency: N/A  
Efficacy: 129.4 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

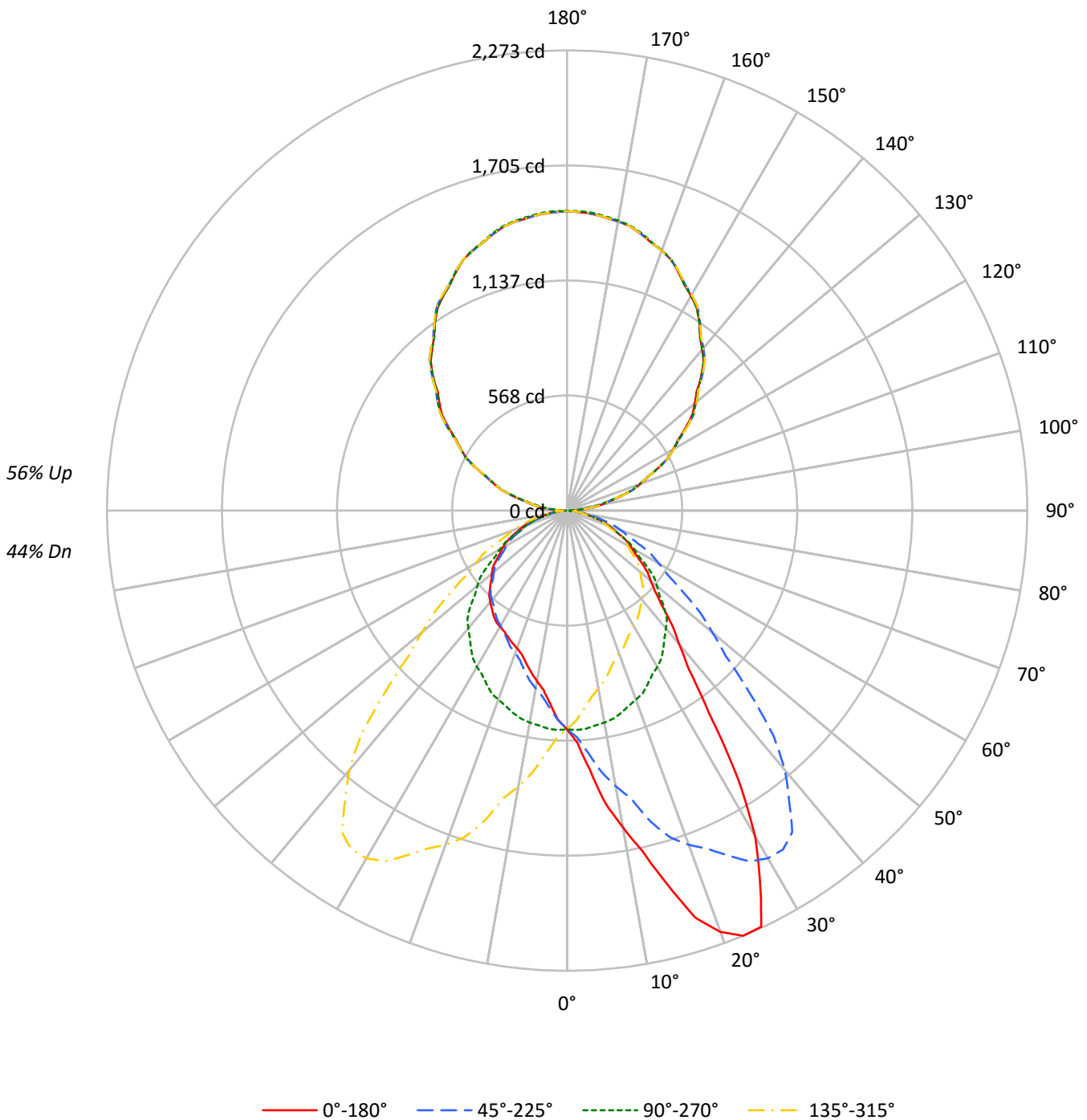
Input Watts (W): 56.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	23	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°	11630	11630	11630	11630
5°	13870	11681	10351	11681
10°	17361	11622	9349	11622
15°	21293	11528	8704	11528
20°	25366	11381	8287	11381
25°	26935	11204	8195	11204
30°	23086	11074	8238	11074
35°	16056	10889	8324	10889
40°	12094	10673	8297	10673
45°	10041	10353	8193	10353
50°	8994	9696	8118	9696
55°	8409	8989	8017	8989
60°	7890	8249	7935	8249
65°	7414	7521	7679	7521
70°	6952	6688	7314	6688
75°	6226	5856	6704	5856
80°	5455	4804	5777	4804
85°	4273	3495	3878	3495



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.4	1.4
10°-20°	341.3	4.6
20°-30°	572.8	7.8
30°-40°	648.6	8.8
40°-50°	581.7	7.9
50°-60°	469.4	6.4
60°-70°	327.1	4.4
70°-80°	171.9	2.3
80°-90°	46.4	0.6
90°-100°	96.4	1.3
100°-110°	288.4	3.9
110°-120°	490.5	6.7
120°-130°	645.2	8.8
130°-140°	725.2	9.8
140°-150°	712.8	9.7
150°-160°	600.1	8.1
160°-170°	399.5	5.4
170°-180°	139.9	1.9
0°-30°	1020.6	13.9
0°-40°	1669.2	22.7
0°-60°	2720.2	36.9
0°-90°	3265.7	44.3
90°-120°	875.3	11.9
90°-150°	2958.5	40.2
90°-180°	4098.0	55.7
0°-180°	7363.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1080	1080	1080	1080	1080	
5°	1284	1081	958	1081	1284	133
15°	1911	1034	781	1034	1911	552
25°	2268	943	690	943	2268	995
35°	1222	829	634	829	1222	794
45°	660	680	538	680	660	522
55°	448	479	427	479	448	402
65°	291	295	302	295	291	290
75°	150	141	161	141	150	160
85°	35	28	31	28	35	42
90°	35	1	35	1	35	19
95°	91	69	91	69	91	93
105°	276	261	276	261	276	293
115°	495	494	495	494	495	490
125°	715	723	715	723	715	639
135°	936	938	936	938	936	720
145°	1138	1138	1138	1138	1138	710
155°	1300	1302	1300	1302	1300	599
165°	1414	1419	1414	1419	1414	399
175°	1470	1476	1470	1476	1470	140
180°	1479	1479	1479	1479	1479	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5
2.5°	1146.7	1145.9	1143.8	1145.5	1142.1	1137.5	1137.1	1132.9	1120.7	1119.9	1116.6
5°	1283.7	1279.5	1279.0	1278.4	1271.1	1261.2	1242.3	1240.7	1215.6	1203.0	1187.9
7.5°	1461.0	1463.2	1455.6	1448.9	1426.5	1411.7	1391.5	1365.6	1334.8	1303.5	1282.6
10°	1588.4	1605.6	1584.2	1569.5	1555.9	1530.2	1500.4	1463.2	1426.1	1382.6	1349.6
12.5°	1724.9	1733.4	1729.1	1715.3	1694.1	1655.1	1602.2	1561.2	1527.0	1454.6	1425.4
15°	1910.8	1942.8	1922.4	1875.2	1876.3	1839.1	1770.0	1694.1	1653.8	1590.4	1504.1
17.5°	2108.9	2112.9	2104.2	2065.0	2038.8	1987.7	1923.9	1851.2	1769.5	1692.8	1601.2
20°	2214.5	2211.3	2193.0	2172.6	2127.6	2087.8	2018.2	1937.0	1832.3	1756.9	1656.9
22.5°	2273.1	2267.9	2259.2	2242.1	2204.6	2161.9	2099.4	2010.7	1911.1	1807.2	1691.7
25°	2267.9	2274.7	2275.7	2271.0	2257.9	2232.3	2183.1	2112.4	2012.9	1879.4	1759.0
27.5°	2062.7	2072.3	2100.3	2125.1	2152.8	2181.1	2177.3	2142.2	2068.6	1953.4	1806.1
30°	1857.4	1836.5	1888.3	1953.8	1998.3	2076.8	2120.8	2123.4	2082.0	1983.1	1839.6
32.5°	1572.6	1595.7	1618.6	1699.1	1796.4	1884.6	1972.1	2042.6	2050.6	1984.8	1859.3
35°	1221.9	1250.7	1292.6	1334.4	1439.2	1529.2	1683.1	1817.1	1923.9	1938.1	1861.1
37.5°	984.6	998.9	1025.4	1067.3	1135.8	1242.6	1361.7	1531.1	1685.8	1800.9	1805.9
40°	860.7	864.9	894.7	926.6	982.1	1070.1	1177.4	1327.1	1512.4	1673.2	1740.2
42.5°	767.7	776.9	789.6	820.2	864.4	930.6	1030.4	1154.1	1324.0	1509.0	1640.1
45°	659.6	670.1	678.0	698.4	729.8	774.3	843.9	957.0	1086.3	1277.4	1453.8
47.5°	588.2	589.1	594.9	610.3	631.7	665.1	714.3	787.0	905.7	1060.6	1241.8
50°	537.1	545.5	547.6	559.6	576.4	601.0	641.8	703.6	801.0	937.1	1103.6
52.5°	501.1	503.6	509.5	518.2	532.8	552.0	587.4	635.8	712.2	828.2	981.3
55°	448.1	448.1	453.9	460.7	469.1	486.3	509.9	545.5	603.6	693.7	820.4
57.5°	399.1	401.7	405.8	407.9	415.0	426.5	446.1	473.2	516.5	585.8	686.5
60°	366.5	371.2	370.7	374.8	381.1	390.0	406.8	428.8	467.5	523.0	607.8
62.5°	338.0	337.7	337.6	342.6	348.9	357.4	368.2	387.3	420.2	469.4	541.6
65°	291.1	290.0	293.7	296.8	298.9	305.2	313.6	330.3	352.3	389.0	445.0
67.5°	249.4	246.4	248.4	249.4	253.0	257.9	265.7	276.1	293.6	323.0	365.2
70°	220.9	218.3	217.8	218.8	222.0	225.6	231.4	241.3	257.6	281.1	312.0
72.5°	191.6	189.8	189.7	192.0	193.5	195.9	200.0	209.1	222.0	239.7	268.5
75°	149.7	149.7	149.7	150.2	151.8	153.9	157.1	161.8	171.7	184.3	203.6
77.5°	112.2	112.1	111.5	111.4	113.7	114.7	115.4	119.8	125.3	133.8	147.9
80°	88.0	85.3	86.4	88.0	89.0	89.5	91.1	92.1	96.9	101.6	111.5
82.5°	65.3	63.1	63.3	65.8	66.0	66.5	68.1	69.5	71.3	75.6	80.9
85°	34.6	34.6	35.1	35.1	35.6	35.1	36.6	37.2	37.2	39.8	42.9
87.5°	19.5	18.6	18.9	19.2	18.7	19.0	19.2	19.4	19.6	19.8	19.6
90°	34.9	34.3	33.8	33.3	32.8	32.0	31.0	30.0	28.9	27.9	24.5
92.5°	46.9	47.2	47.6	47.9	48.2	47.9	47.1	46.3	45.4	44.6	42.7
95°	90.6	90.6	90.6	90.6	90.6	90.1	89.1	88.0	87.0	86.0	83.9
97.5°	139.4	139.5	139.6	139.7	139.8	139.3	138.1	136.9	135.7	134.5	133.0
100°	176.6	176.1	175.6	175.1	174.5	173.9	173.1	172.3	171.6	170.8	169.5
102.5°	214.7	214.8	214.9	215.0	215.1	214.8	214.0	213.2	212.5	211.7	210.0
105°	276.5	276.0	275.5	275.0	274.5	274.2	274.2	274.2	274.2	274.2	271.9
107.5°	340.9	341.2	341.5	341.8	342.1	341.9	341.1	340.2	339.4	338.6	337.6
110°	384.6	385.1	385.6	386.1	386.6	386.4	385.4	384.3	383.3	382.3	381.7



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	431.1	431.2	431.3	431.4	431.5	430.9	429.7	428.4	427.2	425.9	425.8
115°	495.0	495.2	495.5	495.7	496.0	496.0	495.7	495.5	495.2	495.0	495.5
117.5°	559.8	560.5	561.2	562.0	562.7	563.1	563.1	563.2	563.2	563.3	564.0
120°	605.3	605.9	606.4	606.9	607.4	607.8	608.1	608.3	608.6	608.8	610.1
122.5°	649.0	649.7	650.5	651.2	651.9	652.6	653.3	654.0	654.6	655.3	656.0
125°	714.6	715.6	716.6	717.7	718.7	719.7	720.8	721.8	722.8	723.9	724.4
127.5°	779.9	781.0	782.2	783.4	784.6	785.9	787.4	788.8	790.3	791.7	792.3
130°	822.6	824.4	826.2	828.0	829.8	831.3	832.3	833.3	834.4	835.4	836.2
132.5°	867.2	868.6	870.0	871.4	872.8	874.1	875.4	876.6	877.8	879.1	879.6
135°	936.5	937.0	937.5	938.0	938.5	939.3	940.3	941.4	942.4	943.4	943.7
137.5°	997.6	998.6	999.6	1000.5	1001.5	1002.5	1003.6	1004.7	1005.8	1006.9	1006.2
140°	1037.6	1039.4	1041.2	1043.0	1044.8	1045.8	1046.1	1046.3	1046.6	1046.9	1046.6
142.5°	1078.5	1079.9	1081.2	1082.6	1084.0	1084.9	1085.1	1085.4	1085.6	1085.9	1085.4
145°	1137.5	1138.5	1139.5	1140.6	1141.6	1142.3	1142.5	1142.8	1143.0	1143.3	1142.5
147.5°	1190.0	1191.5	1193.1	1194.6	1196.2	1197.0	1197.0	1197.0	1197.0	1197.0	1196.2
150°	1223.5	1225.0	1226.6	1228.1	1229.7	1230.4	1230.4	1230.4	1230.4	1230.4	1229.9
152.5°	1256.0	1257.3	1258.7	1260.0	1261.4	1261.8	1261.4	1261.0	1260.6	1260.2	1259.9
155°	1300.1	1302.0	1303.8	1305.6	1307.4	1307.8	1306.7	1305.7	1304.7	1303.6	1303.4
157.5°	1340.3	1341.8	1343.2	1344.7	1346.1	1346.3	1345.2	1344.1	1343.1	1342.0	1341.8
160°	1366.4	1367.4	1368.4	1369.5	1370.5	1370.4	1369.1	1367.8	1366.5	1365.2	1365.2
162.5°	1385.9	1387.5	1389.2	1390.8	1392.5	1392.7	1391.4	1390.1	1388.8	1387.5	1387.3
165°	1414.0	1415.8	1417.6	1419.4	1421.2	1421.4	1419.8	1418.3	1416.7	1415.2	1415.2
167.5°	1437.9	1439.5	1441.1	1442.7	1444.3	1444.3	1442.7	1441.1	1439.5	1437.9	1437.7
170°	1450.0	1451.8	1453.6	1455.5	1457.3	1457.3	1455.5	1453.6	1451.8	1450.0	1450.0
172.5°	1459.3	1461.1	1462.9	1464.7	1466.6	1466.7	1465.1	1463.5	1461.9	1460.3	1460.3
175°	1469.8	1471.6	1473.4	1475.2	1477.0	1477.1	1475.6	1474.0	1472.5	1470.9	1470.9
177.5°	1475.4	1476.8	1478.2	1479.7	1481.1	1481.2	1480.0	1478.8	1477.5	1476.3	1476.3
180°	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5
2.5°	1114.0	1110.7	1107.3	1101.5	1096.5	1089.3	1087.2	1084.7	1077.2	1070.5	1065.5
5°	1182.1	1169.5	1151.2	1134.5	1120.9	1102.5	1092.1	1081.1	1065.4	1051.2	1039.7
7.5°	1253.3	1228.6	1200.1	1169.3	1140.6	1113.0	1090.7	1070.8	1048.8	1028.0	1011.8
10°	1309.8	1274.2	1234.5	1191.5	1154.9	1119.3	1089.4	1063.3	1035.0	1010.4	990.0
12.5°	1374.3	1321.6	1266.7	1214.6	1171.2	1121.8	1085.7	1052.4	1020.3	990.7	967.8
15°	1450.7	1383.7	1318.7	1247.0	1181.1	1119.3	1076.4	1034.5	997.3	966.9	937.6
17.5°	1520.2	1444.3	1358.7	1271.5	1191.9	1118.7	1058.6	1011.2	964.7	927.6	898.4
20°	1559.6	1473.2	1376.3	1285.8	1197.8	1116.1	1050.2	993.6	943.4	904.1	871.1
22.5°	1593.5	1492.4	1392.2	1295.4	1197.4	1109.4	1034.7	976.5	922.0	883.6	848.5
25°	1628.7	1507.7	1407.2	1293.6	1184.2	1093.1	1009.3	943.4	888.9	843.9	807.8
27.5°	1658.8	1506.7	1387.4	1265.2	1163.5	1072.2	982.7	912.0	854.2	805.3	768.6
30°	1678.9	1508.8	1366.9	1246.0	1143.4	1049.1	962.2	891.0	830.3	780.6	746.0
32.5°	1691.5	1507.5	1348.1	1219.2	1111.5	1028.2	940.0	866.3	803.9	755.0	721.7
35°	1698.8	1498.3	1315.6	1163.8	1060.1	979.0	905.2	828.7	763.3	717.7	680.1
37.5°	1684.2	1478.9	1277.9	1110.4	996.9	917.0	854.9	789.8	727.2	677.0	644.6
40°	1661.1	1466.4	1248.6	1072.7	953.3	876.4	823.5	759.6	697.8	650.2	619.8
42.5°	1617.1	1440.8	1216.3	1030.8	908.1	831.1	782.5	729.1	670.6	625.9	595.6
45°	1509.8	1385.2	1168.0	968.0	841.3	761.7	718.8	680.1	627.2	583.7	557.5
47.5°	1360.9	1301.6	1098.0	901.7	771.6	695.0	650.4	619.2	580.6	545.5	520.4
50°	1257.5	1232.9	1050.7	856.5	725.1	650.2	607.3	579.0	551.3	516.2	493.2
52.5°	1138.1	1153.3	995.4	809.6	677.7	604.1	563.7	541.3	516.1	487.3	467.2
55°	970.1	1025.0	899.9	730.8	607.3	537.1	498.9	479.0	464.4	442.9	425.6
57.5°	812.7	882.7	796.7	649.7	538.1	477.6	440.9	419.2	409.8	398.6	385.0
60°	719.3	788.4	723.0	595.2	491.6	434.0	401.5	383.2	373.8	365.9	354.4
62.5°	636.0	705.9	650.9	540.0	445.9	392.5	364.3	346.4	339.0	334.9	325.1
65°	521.4	581.6	545.0	453.9	380.6	333.5	307.8	295.3	288.5	286.9	280.6
67.5°	424.4	470.2	443.5	376.5	318.8	278.1	256.3	245.6	240.4	239.9	235.2
70°	360.7	403.6	383.2	322.5	272.8	240.8	222.0	212.5	209.4	208.9	206.3
72.5°	311.3	341.2	325.0	274.3	235.9	206.9	193.1	183.2	179.7	180.4	178.6
75°	230.3	252.9	243.4	208.4	177.5	158.6	147.1	140.8	137.7	139.3	137.2
77.5°	165.7	180.0	171.5	147.2	128.2	114.5	106.1	102.2	99.4	99.3	98.3
80°	125.1	133.5	128.8	114.1	98.4	86.9	80.1	77.5	75.9	75.4	74.9
82.5°	89.1	96.2	90.7	80.6	69.9	63.0	59.2	55.7	54.6	54.9	54.3
85°	45.0	47.6	45.5	39.3	35.1	31.9	29.8	28.3	27.2	27.7	26.7
87.5°	19.7	19.5	17.6	15.3	13.9	12.2	11.6	10.3	10.0	10.5	10.6
90°	21.2	17.8	14.5	11.5	8.9	6.3	3.7	1.2	3.7	6.3	8.9
92.5°	40.8	38.9	37.0	35.1	33.4	31.6	29.9	28.1	29.9	31.6	33.4
95°	81.8	79.8	77.7	75.8	74.0	72.2	70.4	68.6	70.4	72.2	74.0
97.5°	131.6	130.1	128.6	127.1	125.8	124.5	123.1	121.8	123.1	124.5	125.8
100°	168.2	166.9	165.6	164.2	162.7	161.1	159.6	158.0	159.6	161.1	162.7
102.5°	208.3	206.6	204.9	203.6	202.6	201.7	200.8	199.8	200.8	201.7	202.6
105°	269.6	267.2	264.9	263.5	263.0	262.5	261.9	261.4	261.9	262.5	263.0
107.5°	336.7	335.8	334.9	334.2	333.9	333.6	333.3	333.0	333.3	333.6	333.9
110°	381.2	380.7	380.2	379.7	379.2	378.6	378.1	377.6	378.1	378.6	379.2





TEST NUMBER: P331992

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	425.7	425.6	425.5	425.3	425.0	424.7	424.4	424.1	424.4	424.7	425.0
115°	496.0	496.5	497.0	496.9	496.1	495.3	494.6	493.8	494.6	495.3	496.1
117.5°	564.6	565.3	566.0	566.0	565.5	565.0	564.5	564.0	564.5	565.0	565.5
120°	611.4	612.7	614.0	613.9	612.3	610.8	609.2	607.7	609.2	610.8	612.3
122.5°	656.6	657.3	658.0	657.8	656.6	655.5	654.3	653.2	654.3	655.5	656.6
125°	724.9	725.4	725.9	725.8	725.0	724.2	723.5	722.7	723.5	724.2	725.0
127.5°	792.8	793.4	794.0	793.4	791.8	790.1	788.5	786.8	788.5	790.1	791.8
130°	836.9	837.7	838.5	837.8	835.8	833.7	831.6	829.6	831.6	833.7	835.8
132.5°	880.2	880.8	881.4	880.6	878.5	876.5	874.4	872.3	874.4	876.5	878.5
135°	944.0	944.2	944.5	943.8	942.3	940.7	939.2	937.6	939.2	940.7	942.3
137.5°	1005.5	1004.9	1004.2	1003.2	1001.9	1000.6	999.3	998.1	999.3	1000.6	1001.9
140°	1046.3	1046.1	1045.8	1045.0	1043.8	1042.5	1041.2	1039.9	1041.2	1042.5	1043.8
142.5°	1085.0	1084.5	1084.0	1083.2	1081.9	1080.6	1079.3	1078.0	1079.3	1080.6	1081.9
145°	1141.7	1141.0	1140.2	1139.5	1139.0	1138.5	1138.0	1137.5	1138.0	1138.5	1139.0
147.5°	1195.5	1194.8	1194.1	1193.3	1192.3	1191.4	1190.5	1189.5	1190.5	1191.4	1192.3
150°	1229.4	1228.9	1228.4	1227.9	1227.3	1226.8	1226.3	1225.8	1226.3	1226.8	1227.3
152.5°	1259.6	1259.2	1258.9	1258.4	1257.7	1257.0	1256.3	1255.5	1256.3	1257.0	1257.7
155°	1303.1	1302.9	1302.6	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5
157.5°	1341.6	1341.4	1341.1	1341.2	1341.5	1341.8	1342.1	1342.4	1342.1	1341.8	1341.5
160°	1365.2	1365.2	1365.2	1365.5	1366.0	1366.5	1367.0	1367.5	1367.0	1366.5	1366.0
162.5°	1387.1	1386.9	1386.7	1387.0	1387.7	1388.4	1389.1	1389.8	1389.1	1388.4	1387.7
165°	1415.2	1415.2	1415.2	1415.6	1416.3	1417.1	1417.9	1418.7	1417.9	1417.1	1416.3
167.5°	1437.5	1437.3	1437.1	1437.5	1438.6	1439.6	1440.6	1441.7	1440.6	1439.6	1438.6
170°	1450.0	1450.0	1450.0	1450.5	1451.6	1452.6	1453.6	1454.7	1453.6	1452.6	1451.6
172.5°	1460.3	1460.3	1460.3	1460.8	1461.8	1462.8	1463.9	1464.9	1463.9	1462.8	1461.8
175°	1470.9	1470.9	1470.9	1471.5	1472.5	1473.5	1474.6	1475.6	1474.6	1473.5	1472.5
177.5°	1476.3	1476.3	1476.3	1476.7	1477.5	1478.4	1479.2	1480.0	1479.2	1478.4	1477.5
180°	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5
2.5°	1062.5	1059.6	1055.4	1049.1	1044.1	1036.1	1036.1	1037.4	1037.4	1037.0	1036.1
5°	1030.3	1022.4	1013.0	1002.0	990.5	979.0	976.9	972.7	969.6	967.5	964.8
7.5°	996.3	982.3	968.6	953.2	939.2	927.6	919.5	912.8	908.5	903.9	900.6
10°	973.2	955.9	939.7	923.5	905.7	891.6	882.7	876.4	871.7	867.5	865.4
12.5°	946.0	926.2	908.3	892.9	873.4	858.9	850.4	847.5	841.9	833.1	828.5
15°	906.2	887.9	866.4	842.9	833.4	815.6	805.7	801.0	797.8	791.0	788.9
17.5°	872.2	848.2	824.1	806.5	789.0	774.6	769.0	763.2	759.0	753.4	751.8
20°	845.0	823.5	801.5	782.7	764.3	748.6	743.9	739.7	735.5	732.9	730.8
22.5°	817.3	795.9	777.6	760.0	740.5	730.2	725.1	720.5	717.5	715.8	713.7
25°	778.5	759.6	739.2	723.5	707.8	701.0	697.8	695.2	693.1	690.5	690.0
27.5°	743.7	723.2	706.6	692.0	680.7	675.0	672.0	670.7	671.2	672.1	672.7
30°	717.7	698.9	685.3	672.7	662.3	657.0	656.5	656.5	658.6	659.1	660.2
32.5°	693.9	678.4	664.8	652.6	644.7	641.1	643.1	643.1	644.8	646.1	648.0
35°	659.1	645.5	635.0	624.6	617.8	619.3	620.4	621.4	624.0	627.2	629.3
37.5°	625.9	614.1	603.2	595.0	591.9	594.7	597.2	599.4	602.5	604.9	607.0
40°	602.0	593.1	582.7	575.3	576.4	578.0	580.1	582.7	585.3	586.9	589.0
42.5°	579.8	570.5	562.6	556.5	558.0	560.0	561.2	562.6	565.6	568.4	569.7
45°	546.0	538.7	531.4	527.7	528.8	529.8	530.8	532.4	535.0	537.1	537.7
47.5°	508.0	502.9	498.0	494.4	496.1	495.7	497.0	500.4	501.2	502.5	505.4
50°	483.7	479.0	473.3	472.2	472.2	472.2	472.7	476.9	476.9	479.0	481.1
52.5°	456.9	453.9	450.2	448.3	447.5	447.5	449.7	451.8	452.6	455.6	457.7
55°	417.2	414.1	411.0	409.4	408.3	409.4	413.6	414.6	417.2	418.8	420.4
57.5°	375.9	373.5	371.0	370.1	369.9	371.3	373.6	376.7	377.4	382.2	384.6
60°	348.7	345.0	342.9	342.9	341.9	346.6	345.5	350.8	351.8	354.9	358.6
62.5°	320.6	315.7	314.8	314.8	316.3	317.7	319.1	321.4	324.2	328.1	331.0
65°	275.4	272.8	276.4	275.9	274.8	278.0	278.0	280.6	283.7	287.4	293.2
67.5°	232.5	231.2	231.5	231.5	233.1	234.9	236.3	238.6	242.4	246.3	250.0
70°	203.6	205.2	202.6	204.7	206.3	206.8	207.8	211.0	215.2	217.8	222.0
72.5°	175.6	175.5	175.8	176.6	178.2	179.1	180.2	183.8	188.4	190.6	193.9
75°	135.1	134.5	136.1	136.1	138.7	139.8	140.8	142.4	146.6	149.7	152.3
77.5°	98.6	99.3	98.9	100.7	100.0	100.2	103.4	105.0	105.4	111.6	113.0
80°	74.3	75.4	75.9	76.4	77.0	75.9	79.6	81.1	81.1	84.8	87.4
82.5°	53.4	54.0	55.4	55.9	56.0	57.1	57.4	58.5	59.8	61.4	64.8
85°	26.7	28.3	28.8	28.3	28.8	27.7	29.3	29.8	30.4	30.4	30.4
87.5°	10.7	11.7	11.9	13.0	13.3	14.4	14.6	13.9	14.2	15.6	14.1
90°	11.5	14.5	17.8	21.2	24.5	27.9	28.9	30.0	31.0	32.0	32.8
92.5°	35.1	37.0	38.9	40.8	42.7	44.6	45.4	46.3	47.1	47.9	48.2
95°	75.8	77.7	79.8	81.8	83.9	86.0	87.0	88.0	89.1	90.1	90.6
97.5°	127.1	128.6	130.1	131.6	133.0	134.5	135.7	136.9	138.1	139.3	139.8
100°	164.2	165.6	166.9	168.2	169.5	170.8	171.6	172.3	173.1	173.9	174.5
102.5°	203.6	204.9	206.6	208.3	210.0	211.7	212.5	213.2	214.0	214.8	215.1
105°	263.5	264.9	267.2	269.6	271.9	274.2	274.2	274.2	274.2	274.2	274.5
107.5°	334.2	334.9	335.8	336.7	337.6	338.6	339.4	340.2	341.1	341.9	342.1
110°	379.7	380.2	380.7	381.2	381.7	382.3	383.3	384.3	385.4	386.4	386.6



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	425.3	425.5	425.6	425.7	425.8	425.9	427.2	428.4	429.7	430.9	431.5
115°	496.9	497.0	496.5	496.0	495.5	495.0	495.2	495.5	495.7	496.0	496.0
117.5°	566.0	566.0	565.3	564.6	564.0	563.3	563.2	563.2	563.1	563.1	562.7
120°	613.9	614.0	612.7	611.4	610.1	608.8	608.6	608.3	608.1	607.8	607.4
122.5°	657.8	658.0	657.3	656.6	656.0	655.3	654.6	654.0	653.3	652.6	651.9
125°	725.8	725.9	725.4	724.9	724.4	723.9	722.8	721.8	720.8	719.7	718.7
127.5°	793.4	794.0	793.4	792.8	792.3	791.7	790.3	788.8	787.4	785.9	784.6
130°	837.8	838.5	837.7	836.9	836.2	835.4	834.4	833.3	832.3	831.3	829.8
132.5°	880.6	881.4	880.8	880.2	879.6	879.1	877.8	876.6	875.4	874.1	872.8
135°	943.8	944.5	944.2	944.0	943.7	943.4	942.4	941.4	940.3	939.3	938.5
137.5°	1003.2	1004.2	1004.9	1005.5	1006.2	1006.9	1005.8	1004.7	1003.6	1002.5	1001.5
140°	1045.0	1045.8	1046.1	1046.3	1046.6	1046.9	1046.6	1046.3	1046.1	1045.8	1044.8
142.5°	1083.2	1084.0	1084.5	1085.0	1085.4	1085.9	1085.6	1085.4	1085.1	1084.9	1084.0
145°	1139.5	1140.2	1141.0	1141.7	1142.5	1143.3	1143.0	1142.8	1142.5	1142.3	1141.6
147.5°	1193.3	1194.1	1194.8	1195.5	1196.2	1197.0	1197.0	1197.0	1197.0	1197.0	1196.2
150°	1227.9	1228.4	1228.9	1229.4	1229.9	1230.4	1230.4	1230.4	1230.4	1230.4	1229.7
152.5°	1258.4	1258.9	1259.2	1259.6	1259.9	1260.2	1260.6	1261.0	1261.4	1261.8	1261.4
155°	1302.5	1302.6	1302.9	1303.1	1303.4	1303.6	1304.7	1305.7	1306.7	1307.8	1307.4
157.5°	1341.2	1341.1	1341.4	1341.6	1341.8	1342.0	1343.1	1344.1	1345.2	1346.3	1346.1
160°	1365.5	1365.2	1365.2	1365.2	1365.2	1365.2	1366.5	1367.8	1369.1	1370.4	1370.5
162.5°	1387.0	1386.7	1386.9	1387.1	1387.3	1387.5	1388.8	1390.1	1391.4	1392.7	1392.5
165°	1415.6	1415.2	1415.2	1415.2	1415.2	1415.2	1416.7	1418.3	1419.8	1421.4	1421.2
167.5°	1437.5	1437.1	1437.3	1437.5	1437.7	1437.9	1439.5	1441.1	1442.7	1444.3	1444.3
170°	1450.5	1450.0	1450.0	1450.0	1450.0	1450.0	1451.8	1453.6	1455.5	1457.3	1457.3
172.5°	1460.8	1460.3	1460.3	1460.3	1460.3	1460.3	1461.9	1463.5	1465.1	1466.7	1466.6
175°	1471.5	1470.9	1470.9	1470.9	1470.9	1470.9	1472.5	1474.0	1475.6	1477.1	1477.0
177.5°	1476.7	1476.3	1476.3	1476.3	1476.3	1476.3	1477.5	1478.8	1480.0	1481.2	1481.1
180°	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5
2.5°	1033.2	1032.8	1035.7	1033.6	1035.7	1032.8	1033.2	1036.1	1037.0	1037.4	1037.4
5°	961.7	963.3	958.0	958.0	958.0	963.3	961.7	964.8	967.5	969.6	972.7
7.5°	898.0	895.7	895.9	893.1	895.9	895.7	898.0	900.6	903.9	908.5	912.8
10°	859.1	856.0	854.9	855.4	854.9	856.0	859.1	865.4	867.5	871.7	876.4
12.5°	826.8	826.2	819.3	819.4	819.3	826.2	826.8	828.5	833.1	841.9	847.5
15°	788.9	779.0	777.9	781.1	777.9	779.0	788.9	788.9	791.0	797.8	801.0
17.5°	750.9	745.7	746.0	744.4	746.0	745.7	750.9	751.8	753.4	759.0	763.2
20°	730.8	727.7	727.2	723.5	727.2	727.7	730.8	730.8	732.9	735.5	739.7
22.5°	712.4	711.4	711.7	707.6	711.7	711.4	712.4	713.7	715.8	717.5	720.5
25°	689.5	692.1	690.0	690.0	690.0	692.1	689.5	690.0	690.5	693.1	695.2
27.5°	674.0	673.9	672.8	672.8	672.8	673.9	674.0	672.7	672.1	671.2	670.7
30°	662.3	661.7	662.8	662.8	662.8	661.7	662.3	660.2	659.1	658.6	656.5
32.5°	650.5	651.3	651.5	651.9	651.5	651.3	650.5	648.0	646.1	644.8	643.1
35°	632.4	632.9	634.5	633.5	634.5	632.9	632.4	629.3	627.2	624.0	621.4
37.5°	607.9	610.3	609.8	610.6	609.8	610.3	607.9	607.0	604.9	602.5	599.4
40°	589.5	591.1	590.5	590.5	590.5	591.1	589.5	589.0	586.9	585.3	582.7
42.5°	570.6	571.8	570.4	569.6	570.4	571.8	570.6	569.7	568.4	565.6	562.6
45°	539.7	538.7	540.3	538.2	540.3	538.7	539.7	537.7	537.1	535.0	532.4
47.5°	505.2	506.2	506.7	508.2	506.7	506.2	505.2	505.4	502.5	501.2	500.4
50°	482.2	485.3	485.3	484.8	485.3	485.3	482.2	481.1	479.0	476.9	476.9
52.5°	459.5	461.0	463.1	463.0	463.1	461.0	459.5	457.7	455.6	452.6	451.8
55°	424.6	425.6	426.7	427.2	426.7	425.6	424.6	420.4	418.8	417.2	414.6
57.5°	388.3	387.9	390.4	391.2	390.4	387.9	388.3	384.6	382.2	377.4	376.7
60°	362.8	362.8	367.0	368.6	367.0	362.8	362.8	358.6	354.9	351.8	350.8
62.5°	335.6	337.3	341.4	339.2	341.4	337.3	335.6	331.0	328.1	324.2	321.4
65°	295.8	300.0	299.5	301.5	299.5	300.0	295.8	293.2	287.4	283.7	280.6
67.5°	254.2	256.8	260.6	260.9	260.6	256.8	254.2	250.0	246.3	242.4	238.6
70°	226.2	228.8	230.9	232.4	230.9	228.8	226.2	222.0	217.8	215.2	211.0
72.5°	198.9	200.3	205.3	203.1	205.3	200.3	198.9	193.9	190.6	188.4	183.8
75°	156.0	159.7	162.8	161.2	162.8	159.7	156.0	152.3	149.7	146.6	142.4
77.5°	115.4	119.0	120.5	119.2	120.5	119.0	115.4	113.0	111.6	105.4	105.0
80°	91.1	90.6	93.7	93.2	93.7	90.6	91.1	87.4	84.8	81.1	81.1
82.5°	66.8	66.3	67.7	68.1	67.7	66.3	66.8	64.8	61.4	59.8	58.5
85°	32.5	34.0	31.9	31.4	31.9	34.0	32.5	30.4	30.4	30.4	29.8
87.5°	14.2	14.3	14.0	13.7	14.0	14.3	14.2	14.1	15.6	14.2	13.9
90°	33.3	33.8	34.3	34.9	34.3	33.8	33.3	32.8	32.0	31.0	30.0
92.5°	47.9	47.6	47.2	46.9	47.2	47.6	47.9	48.2	47.9	47.1	46.3
95°	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.1	89.1	88.0
97.5°	139.7	139.6	139.5	139.4	139.5	139.6	139.7	139.8	139.3	138.1	136.9
100°	175.1	175.6	176.1	176.6	176.1	175.6	175.1	174.5	173.9	173.1	172.3
102.5°	215.0	214.9	214.8	214.7	214.8	214.9	215.0	215.1	214.8	214.0	213.2
105°	275.0	275.5	276.0	276.5	276.0	275.5	275.0	274.5	274.2	274.2	274.2
107.5°	341.8	341.5	341.2	340.9	341.2	341.5	341.8	342.1	341.9	341.1	340.2
110°	386.1	385.6	385.1	384.6	385.1	385.6	386.1	386.6	386.4	385.4	384.3



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	431.4	431.3	431.2	431.1	431.2	431.3	431.4	431.5	430.9	429.7	428.4
115°	495.7	495.5	495.2	495.0	495.2	495.5	495.7	496.0	496.0	495.7	495.5
117.5°	562.0	561.2	560.5	559.8	560.5	561.2	562.0	562.7	563.1	563.1	563.2
120°	606.9	606.4	605.9	605.3	605.9	606.4	606.9	607.4	607.8	608.1	608.3
122.5°	651.2	650.5	649.7	649.0	649.7	650.5	651.2	651.9	652.6	653.3	654.0
125°	717.7	716.6	715.6	714.6	715.6	716.6	717.7	718.7	719.7	720.8	721.8
127.5°	783.4	782.2	781.0	779.9	781.0	782.2	783.4	784.6	785.9	787.4	788.8
130°	828.0	826.2	824.4	822.6	824.4	826.2	828.0	829.8	831.3	832.3	833.3
132.5°	871.4	870.0	868.6	867.2	868.6	870.0	871.4	872.8	874.1	875.4	876.6
135°	938.0	937.5	937.0	936.5	937.0	937.5	938.0	938.5	939.3	940.3	941.4
137.5°	1000.5	999.6	998.6	997.6	998.6	999.6	1000.5	1001.5	1002.5	1003.6	1004.7
140°	1043.0	1041.2	1039.4	1037.6	1039.4	1041.2	1043.0	1044.8	1045.8	1046.1	1046.3
142.5°	1082.6	1081.2	1079.9	1078.5	1079.9	1081.2	1082.6	1084.0	1084.9	1085.1	1085.4
145°	1140.6	1139.5	1138.5	1137.5	1138.5	1139.5	1140.6	1141.6	1142.3	1142.5	1142.8
147.5°	1194.6	1193.1	1191.5	1190.0	1191.5	1193.1	1194.6	1196.2	1197.0	1197.0	1197.0
150°	1228.1	1226.6	1225.0	1223.5	1225.0	1226.6	1228.1	1229.7	1230.4	1230.4	1230.4
152.5°	1260.0	1258.7	1257.3	1256.0	1257.3	1258.7	1260.0	1261.4	1261.8	1261.4	1261.0
155°	1305.6	1303.8	1302.0	1300.1	1302.0	1303.8	1305.6	1307.4	1307.8	1306.7	1305.7
157.5°	1344.7	1343.2	1341.8	1340.3	1341.8	1343.2	1344.7	1346.1	1346.3	1345.2	1344.1
160°	1369.5	1368.4	1367.4	1366.4	1367.4	1368.4	1369.5	1370.5	1370.4	1369.1	1367.8
162.5°	1390.8	1389.2	1387.5	1385.9	1387.5	1389.2	1390.8	1392.5	1392.7	1391.4	1390.1
165°	1419.4	1417.6	1415.8	1414.0	1415.8	1417.6	1419.4	1421.2	1421.4	1419.8	1418.3
167.5°	1442.7	1441.1	1439.5	1437.9	1439.5	1441.1	1442.7	1444.3	1444.3	1442.7	1441.1
170°	1455.5	1453.6	1451.8	1450.0	1451.8	1453.6	1455.5	1457.3	1457.3	1455.5	1453.6
172.5°	1464.7	1462.9	1461.1	1459.3	1461.1	1462.9	1464.7	1466.6	1466.7	1465.1	1463.5
175°	1475.2	1473.4	1471.6	1469.8	1471.6	1473.4	1475.2	1477.0	1477.1	1475.6	1474.0
177.5°	1479.7	1478.2	1476.8	1475.4	1476.8	1478.2	1479.7	1481.1	1481.2	1480.0	1478.8
180°	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5
2.5°	1036.1	1036.1	1044.1	1049.1	1055.4	1059.6	1062.5	1065.5	1070.5	1077.2	1084.7
5°	976.9	979.0	990.5	1002.0	1013.0	1022.4	1030.3	1039.7	1051.2	1065.4	1081.1
7.5°	919.5	927.6	939.2	953.2	968.6	982.3	996.3	1011.8	1028.0	1048.8	1070.8
10°	882.7	891.6	905.7	923.5	939.7	955.9	973.2	990.0	1010.4	1035.0	1063.3
12.5°	850.4	858.9	873.4	892.9	908.3	926.2	946.0	967.8	990.7	1020.3	1052.4
15°	805.7	815.6	833.4	842.9	866.4	887.9	906.2	937.6	966.9	997.3	1034.5
17.5°	769.0	774.6	789.0	806.5	824.1	848.2	872.2	898.4	927.6	964.7	1011.2
20°	743.9	748.6	764.3	782.7	801.5	823.5	845.0	871.1	904.1	943.4	993.6
22.5°	725.1	730.2	740.5	760.0	777.6	795.9	817.3	848.5	883.6	922.0	976.5
25°	697.8	701.0	707.8	723.5	739.2	759.6	778.5	807.8	843.9	888.9	943.4
27.5°	672.0	675.0	680.7	692.0	706.6	723.2	743.7	768.6	805.3	854.2	912.0
30°	656.5	657.0	662.3	672.7	685.3	698.9	717.7	746.0	780.6	830.3	891.0
32.5°	643.1	641.1	644.7	652.6	664.8	678.4	693.9	721.7	755.0	803.9	866.3
35°	620.4	619.3	617.8	624.6	635.0	645.5	659.1	680.1	717.7	763.3	828.7
37.5°	597.2	594.7	591.9	595.0	603.2	614.1	625.9	644.6	677.0	727.2	789.8
40°	580.1	578.0	576.4	575.3	582.7	593.1	602.0	619.8	650.2	697.8	759.6
42.5°	561.2	560.0	558.0	556.5	562.6	570.5	579.8	595.6	625.9	670.6	729.1
45°	530.8	529.8	528.8	527.7	531.4	538.7	546.0	557.5	583.7	627.2	680.1
47.5°	497.0	495.7	496.1	494.4	498.0	502.9	508.0	520.4	545.5	580.6	619.2
50°	472.7	472.2	472.2	472.2	473.3	479.0	483.7	493.2	516.2	551.3	579.0
52.5°	449.7	447.5	447.5	448.3	450.2	453.9	456.9	467.2	487.3	516.1	541.3
55°	413.6	409.4	408.3	409.4	411.0	414.1	417.2	425.6	442.9	464.4	479.0
57.5°	373.6	371.3	369.9	370.1	371.0	373.5	375.9	385.0	398.6	409.8	419.2
60°	345.5	346.6	341.9	342.9	342.9	345.0	348.7	354.4	365.9	373.8	383.2
62.5°	319.1	317.7	316.3	314.8	314.8	315.7	320.6	325.1	334.9	339.0	346.4
65°	278.0	278.0	274.8	275.9	276.4	272.8	275.4	280.6	286.9	288.5	295.3
67.5°	236.3	234.9	233.1	231.5	231.5	231.2	232.5	235.2	239.9	240.4	245.6
70°	207.8	206.8	206.3	204.7	202.6	205.2	203.6	206.3	208.9	209.4	212.5
72.5°	180.2	179.1	178.2	176.6	175.8	175.5	175.6	178.6	180.4	179.7	183.2
75°	140.8	139.8	138.7	136.1	136.1	134.5	135.1	137.2	139.3	137.7	140.8
77.5°	103.4	100.2	100.0	100.7	98.9	99.3	98.6	98.3	99.3	99.4	102.2
80°	79.6	75.9	77.0	76.4	75.9	75.4	74.3	74.9	75.4	75.9	77.5
82.5°	57.4	57.1	56.0	55.9	55.4	54.0	53.4	54.3	54.9	54.6	55.7
85°	29.3	27.7	28.8	28.3	28.8	28.3	26.7	26.7	27.7	27.2	28.3
87.5°	14.6	14.4	13.3	13.0	11.9	11.7	10.7	10.6	10.5	10.0	10.3
90°	28.9	27.9	24.5	21.2	17.8	14.5	11.5	8.9	6.3	3.7	1.2
92.5°	45.4	44.6	42.7	40.8	38.9	37.0	35.1	33.4	31.6	29.9	28.1
95°	87.0	86.0	83.9	81.8	79.8	77.7	75.8	74.0	72.2	70.4	68.6
97.5°	135.7	134.5	133.0	131.6	130.1	128.6	127.1	125.8	124.5	123.1	121.8
100°	171.6	170.8	169.5	168.2	166.9	165.6	164.2	162.7	161.1	159.6	158.0
102.5°	212.5	211.7	210.0	208.3	206.6	204.9	203.6	202.6	201.7	200.8	199.8
105°	274.2	274.2	271.9	269.6	267.2	264.9	263.5	263.0	262.5	261.9	261.4
107.5°	339.4	338.6	337.6	336.7	335.8	334.9	334.2	333.9	333.6	333.3	333.0
110°	383.3	382.3	381.7	381.2	380.7	380.2	379.7	379.2	378.6	378.1	377.6



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	427.2	425.9	425.8	425.7	425.6	425.5	425.3	425.0	424.7	424.4	424.1
115°	495.2	495.0	495.5	496.0	496.5	497.0	496.9	496.1	495.3	494.6	493.8
117.5°	563.2	563.3	564.0	564.6	565.3	566.0	566.0	565.5	565.0	564.5	564.0
120°	608.6	608.8	610.1	611.4	612.7	614.0	613.9	612.3	610.8	609.2	607.7
122.5°	654.6	655.3	656.0	656.6	657.3	658.0	657.8	656.6	655.5	654.3	653.2
125°	722.8	723.9	724.4	724.9	725.4	725.9	725.8	725.0	724.2	723.5	722.7
127.5°	790.3	791.7	792.3	792.8	793.4	794.0	793.4	791.8	790.1	788.5	786.8
130°	834.4	835.4	836.2	836.9	837.7	838.5	837.8	835.8	833.7	831.6	829.6
132.5°	877.8	879.1	879.6	880.2	880.8	881.4	880.6	878.5	876.5	874.4	872.3
135°	942.4	943.4	943.7	944.0	944.2	944.5	943.8	942.3	940.7	939.2	937.6
137.5°	1005.8	1006.9	1006.2	1005.5	1004.9	1004.2	1003.2	1001.9	1000.6	999.3	998.1
140°	1046.6	1046.9	1046.6	1046.3	1046.1	1045.8	1045.0	1043.8	1042.5	1041.2	1039.9
142.5°	1085.6	1085.9	1085.4	1085.0	1084.5	1084.0	1083.2	1081.9	1080.6	1079.3	1078.0
145°	1143.0	1143.3	1142.5	1141.7	1141.0	1140.2	1139.5	1139.0	1138.5	1138.0	1137.5
147.5°	1197.0	1197.0	1196.2	1195.5	1194.8	1194.1	1193.3	1192.3	1191.4	1190.5	1189.5
150°	1230.4	1230.4	1229.9	1229.4	1228.9	1228.4	1227.9	1227.3	1226.8	1226.3	1225.8
152.5°	1260.6	1260.2	1259.9	1259.6	1259.2	1258.9	1258.4	1257.7	1257.0	1256.3	1255.5
155°	1304.7	1303.6	1303.4	1303.1	1302.9	1302.6	1302.5	1302.5	1302.5	1302.5	1302.5
157.5°	1343.1	1342.0	1341.8	1341.6	1341.4	1341.1	1341.2	1341.5	1341.8	1342.1	1342.4
160°	1366.5	1365.2	1365.2	1365.2	1365.2	1365.2	1365.5	1366.0	1366.5	1367.0	1367.5
162.5°	1388.8	1387.5	1387.3	1387.1	1386.9	1386.7	1387.0	1387.7	1388.4	1389.1	1389.8
165°	1416.7	1415.2	1415.2	1415.2	1415.2	1415.2	1415.6	1416.3	1417.1	1417.9	1418.7
167.5°	1439.5	1437.9	1437.7	1437.5	1437.3	1437.1	1437.5	1438.6	1439.6	1440.6	1441.7
170°	1451.8	1450.0	1450.0	1450.0	1450.0	1450.0	1450.5	1451.6	1452.6	1453.6	1454.7
172.5°	1461.9	1460.3	1460.3	1460.3	1460.3	1460.3	1460.8	1461.8	1462.8	1463.9	1464.9
175°	1472.5	1470.9	1470.9	1470.9	1470.9	1470.9	1471.5	1472.5	1473.5	1474.6	1475.6
177.5°	1477.5	1476.3	1476.3	1476.3	1476.3	1476.3	1476.7	1477.5	1478.4	1479.2	1480.0
180°	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5
2.5°	1087.2	1089.3	1096.5	1101.5	1107.3	1110.7	1114.0	1116.6	1119.9	1120.7	1132.9
5°	1092.1	1102.5	1120.9	1134.5	1151.2	1169.5	1182.1	1187.9	1203.0	1215.6	1240.7
7.5°	1090.7	1113.0	1140.6	1169.3	1200.1	1228.6	1253.3	1282.6	1303.5	1334.8	1365.6
10°	1089.4	1119.3	1154.9	1191.5	1234.5	1274.2	1309.8	1349.6	1382.6	1426.1	1463.2
12.5°	1085.7	1121.8	1171.2	1214.6	1266.7	1321.6	1374.3	1425.4	1454.6	1527.0	1561.2
15°	1076.4	1119.3	1181.1	1247.0	1318.7	1383.7	1450.7	1504.1	1590.4	1653.8	1694.1
17.5°	1058.6	1118.7	1191.9	1271.5	1358.7	1444.3	1520.2	1601.2	1692.8	1769.5	1851.2
20°	1050.2	1116.1	1197.8	1285.8	1376.3	1473.2	1559.6	1656.9	1756.9	1832.3	1937.0
22.5°	1034.7	1109.4	1197.4	1295.4	1392.2	1492.4	1593.5	1691.7	1807.2	1911.1	2010.7
25°	1009.3	1093.1	1184.2	1293.6	1407.2	1507.7	1628.7	1759.0	1879.4	2012.9	2112.4
27.5°	982.7	1072.2	1163.5	1265.2	1387.4	1506.7	1658.8	1806.1	1953.4	2068.6	2142.2
30°	962.2	1049.1	1143.4	1246.0	1366.9	1508.8	1678.9	1839.6	1983.1	2082.0	2123.4
32.5°	940.0	1028.2	1111.5	1219.2	1348.1	1507.5	1691.5	1859.3	1984.8	2050.6	2042.6
35°	905.2	979.0	1060.1	1163.8	1315.6	1498.3	1698.8	1861.1	1938.1	1923.9	1817.1
37.5°	854.9	917.0	996.9	1110.4	1277.9	1478.9	1684.2	1805.9	1800.9	1685.8	1531.1
40°	823.5	876.4	953.3	1072.7	1248.6	1466.4	1661.1	1740.2	1673.2	1512.4	1327.1
42.5°	782.5	831.1	908.1	1030.8	1216.3	1440.8	1617.1	1640.1	1509.0	1324.0	1154.1
45°	718.8	761.7	841.3	968.0	1168.0	1385.2	1509.8	1453.8	1277.4	1086.3	957.0
47.5°	650.4	695.0	771.6	901.7	1098.0	1301.6	1360.9	1241.8	1060.6	905.7	787.0
50°	607.3	650.2	725.1	856.5	1050.7	1232.9	1257.5	1103.6	937.1	801.0	703.6
52.5°	563.7	604.1	677.7	809.6	995.4	1153.3	1138.1	981.3	828.2	712.2	635.8
55°	498.9	537.1	607.3	730.8	899.9	1025.0	970.1	820.4	693.7	603.6	545.5
57.5°	440.9	477.6	538.1	649.7	796.7	882.7	812.7	686.5	585.8	516.5	473.2
60°	401.5	434.0	491.6	595.2	723.0	788.4	719.3	607.8	523.0	467.5	428.8
62.5°	364.3	392.5	445.9	540.0	650.9	705.9	636.0	541.6	469.4	420.2	387.3
65°	307.8	333.5	380.6	453.9	545.0	581.6	521.4	445.0	389.0	352.3	330.3
67.5°	256.3	278.1	318.8	376.5	443.5	470.2	424.4	365.2	323.0	293.6	276.1
70°	222.0	240.8	272.8	322.5	383.2	403.6	360.7	312.0	281.1	257.6	241.3
72.5°	193.1	206.9	235.9	274.3	325.0	341.2	311.3	268.5	239.7	222.0	209.1
75°	147.1	158.6	177.5	208.4	243.4	252.9	230.3	203.6	184.3	171.7	161.8
77.5°	106.1	114.5	128.2	147.2	171.5	180.0	165.7	147.9	133.8	125.3	119.8
80°	80.1	86.9	98.4	114.1	128.8	133.5	125.1	111.5	101.6	96.9	92.1
82.5°	59.2	63.0	69.9	80.6	90.7	96.2	89.1	80.9	75.6	71.3	69.5
85°	29.8	31.9	35.1	39.3	45.5	47.6	45.0	42.9	39.8	37.2	37.2
87.5°	11.6	12.2	13.9	15.3	17.6	19.5	19.7	19.6	19.8	19.6	19.4
90°	3.7	6.3	8.9	11.5	14.5	17.8	21.2	24.5	27.9	28.9	30.0
92.5°	29.9	31.6	33.4	35.1	37.0	38.9	40.8	42.7	44.6	45.4	46.3
95°	70.4	72.2	74.0	75.8	77.7	79.8	81.8	83.9	86.0	87.0	88.0
97.5°	123.1	124.5	125.8	127.1	128.6	130.1	131.6	133.0	134.5	135.7	136.9
100°	159.6	161.1	162.7	164.2	165.6	166.9	168.2	169.5	170.8	171.6	172.3
102.5°	200.8	201.7	202.6	203.6	204.9	206.6	208.3	210.0	211.7	212.5	213.2
105°	261.9	262.5	263.0	263.5	264.9	267.2	269.6	271.9	274.2	274.2	274.2
107.5°	333.3	333.6	333.9	334.2	334.9	335.8	336.7	337.6	338.6	339.4	340.2
110°	378.1	378.6	379.2	379.7	380.2	380.7	381.2	381.7	382.3	383.3	384.3





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	424.4	424.7	425.0	425.3	425.5	425.6	425.7	425.8	425.9	427.2	428.4
115°	494.6	495.3	496.1	496.9	497.0	496.5	496.0	495.5	495.0	495.2	495.5
117.5°	564.5	565.0	565.5	566.0	566.0	565.3	564.6	564.0	563.3	563.2	563.2
120°	609.2	610.8	612.3	613.9	614.0	612.7	611.4	610.1	608.8	608.6	608.3
122.5°	654.3	655.5	656.6	657.8	658.0	657.3	656.6	656.0	655.3	654.6	654.0
125°	723.5	724.2	725.0	725.8	725.9	725.4	724.9	724.4	723.9	722.8	721.8
127.5°	788.5	790.1	791.8	793.4	794.0	793.4	792.8	792.3	791.7	790.3	788.8
130°	831.6	833.7	835.8	837.8	838.5	837.7	836.9	836.2	835.4	834.4	833.3
132.5°	874.4	876.5	878.5	880.6	881.4	880.8	880.2	879.6	879.1	877.8	876.6
135°	939.2	940.7	942.3	943.8	944.5	944.2	944.0	943.7	943.4	942.4	941.4
137.5°	999.3	1000.6	1001.9	1003.2	1004.2	1004.9	1005.5	1006.2	1006.9	1005.8	1004.7
140°	1041.2	1042.5	1043.8	1045.0	1045.8	1046.1	1046.3	1046.6	1046.9	1046.6	1046.3
142.5°	1079.3	1080.6	1081.9	1083.2	1084.0	1084.5	1085.0	1085.4	1085.9	1085.6	1085.4
145°	1138.0	1138.5	1139.0	1139.5	1140.2	1141.0	1141.7	1142.5	1143.3	1143.0	1142.8
147.5°	1190.5	1191.4	1192.3	1193.3	1194.1	1194.8	1195.5	1196.2	1197.0	1197.0	1197.0
150°	1226.3	1226.8	1227.3	1227.9	1228.4	1228.9	1229.4	1229.9	1230.4	1230.4	1230.4
152.5°	1256.3	1257.0	1257.7	1258.4	1258.9	1259.2	1259.6	1259.9	1260.2	1260.6	1261.0
155°	1302.5	1302.5	1302.5	1302.5	1302.6	1302.9	1303.1	1303.4	1303.6	1304.7	1305.7
157.5°	1342.1	1341.8	1341.5	1341.2	1341.1	1341.4	1341.6	1341.8	1342.0	1343.1	1344.1
160°	1367.0	1366.5	1366.0	1365.5	1365.2	1365.2	1365.2	1365.2	1365.2	1366.5	1367.8
162.5°	1389.1	1388.4	1387.7	1387.0	1386.7	1386.9	1387.1	1387.3	1387.5	1388.8	1390.1
165°	1417.9	1417.1	1416.3	1415.6	1415.2	1415.2	1415.2	1415.2	1415.2	1416.7	1418.3
167.5°	1440.6	1439.6	1438.6	1437.5	1437.1	1437.3	1437.5	1437.7	1437.9	1439.5	1441.1
170°	1453.6	1452.6	1451.6	1450.5	1450.0	1450.0	1450.0	1450.0	1450.0	1451.8	1453.6
172.5°	1463.9	1462.8	1461.8	1460.8	1460.3	1460.3	1460.3	1460.3	1460.3	1461.9	1463.5
175°	1474.6	1473.5	1472.5	1471.5	1470.9	1470.9	1470.9	1470.9	1470.9	1472.5	1474.0
177.5°	1479.2	1478.4	1477.5	1476.7	1476.3	1476.3	1476.3	1476.3	1476.3	1477.5	1478.8
180°	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5
2.5°	1137.1	1137.5	1142.1	1145.5	1143.8	1145.9	1146.7
5°	1242.3	1261.2	1271.1	1278.4	1279.0	1279.5	1283.7
7.5°	1391.5	1411.7	1426.5	1448.9	1455.6	1463.2	1461.0
10°	1500.4	1530.2	1555.9	1569.5	1584.2	1605.6	1588.4
12.5°	1602.2	1655.1	1694.1	1715.3	1729.1	1733.4	1724.9
15°	1770.0	1839.1	1876.3	1875.2	1922.4	1942.8	1910.8
17.5°	1923.9	1987.7	2038.8	2065.0	2104.2	2112.9	2108.9
20°	2018.2	2087.8	2127.6	2172.6	2193.0	2211.3	2214.5
22.5°	2099.4	2161.9	2204.6	2242.1	2259.2	2267.9	2273.1
25°	2183.1	2232.3	2257.9	2271.0	2275.7	2274.7	2267.9
27.5°	2177.3	2181.1	2152.8	2125.1	2100.3	2072.3	2062.7
30°	2120.8	2076.8	1998.3	1953.8	1888.3	1836.5	1857.4
32.5°	1972.1	1884.6	1796.4	1699.1	1618.6	1595.7	1572.6
35°	1683.1	1529.2	1439.2	1334.4	1292.6	1250.7	1221.9
37.5°	1361.7	1242.6	1135.8	1067.3	1025.4	998.9	984.6
40°	1177.4	1070.1	982.1	926.6	894.7	864.9	860.7
42.5°	1030.4	930.6	864.4	820.2	789.6	776.9	767.7
45°	843.9	774.3	729.8	698.4	678.0	670.1	659.6
47.5°	714.3	665.1	631.7	610.3	594.9	589.1	588.2
50°	641.8	601.0	576.4	559.6	547.6	545.5	537.1
52.5°	587.4	552.0	532.8	518.2	509.5	503.6	501.1
55°	509.9	486.3	469.1	460.7	453.9	448.1	448.1
57.5°	446.1	426.5	415.0	407.9	405.8	401.7	399.1
60°	406.8	390.0	381.1	374.8	370.7	371.2	366.5
62.5°	368.2	357.4	348.9	342.6	337.6	337.7	338.0
65°	313.6	305.2	298.9	296.8	293.7	290.0	291.1
67.5°	265.7	257.9	253.0	249.4	248.4	246.4	249.4
70°	231.4	225.6	222.0	218.8	217.8	218.3	220.9
72.5°	200.0	195.9	193.5	192.0	189.7	189.8	191.6
75°	157.1	153.9	151.8	150.2	149.7	149.7	149.7
77.5°	115.4	114.7	113.7	111.4	111.5	112.1	112.2
80°	91.1	89.5	89.0	88.0	86.4	85.3	88.0
82.5°	68.1	66.5	66.0	65.8	63.3	63.1	65.3
85°	36.6	35.1	35.6	35.1	35.1	34.6	34.6
87.5°	19.2	19.0	18.7	19.2	18.9	18.6	19.5
90°	31.0	32.0	32.8	33.3	33.8	34.3	34.9
92.5°	47.1	47.9	48.2	47.9	47.6	47.2	46.9
95°	89.1	90.1	90.6	90.6	90.6	90.6	90.6
97.5°	138.1	139.3	139.8	139.7	139.6	139.5	139.4
100°	173.1	173.9	174.5	175.1	175.6	176.1	176.6
102.5°	214.0	214.8	215.1	215.0	214.9	214.8	214.7
105°	274.2	274.2	274.5	275.0	275.5	276.0	276.5
107.5°	341.1	341.9	342.1	341.8	341.5	341.2	340.9
110°	385.4	386.4	386.6	386.1	385.6	385.1	384.6



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	429.7	430.9	431.5	431.4	431.3	431.2	431.1
115°	495.7	496.0	496.0	495.7	495.5	495.2	495.0
117.5°	563.1	563.1	562.7	562.0	561.2	560.5	559.8
120°	608.1	607.8	607.4	606.9	606.4	605.9	605.3
122.5°	653.3	652.6	651.9	651.2	650.5	649.7	649.0
125°	720.8	719.7	718.7	717.7	716.6	715.6	714.6
127.5°	787.4	785.9	784.6	783.4	782.2	781.0	779.9
130°	832.3	831.3	829.8	828.0	826.2	824.4	822.6
132.5°	875.4	874.1	872.8	871.4	870.0	868.6	867.2
135°	940.3	939.3	938.5	938.0	937.5	937.0	936.5
137.5°	1003.6	1002.5	1001.5	1000.5	999.6	998.6	997.6
140°	1046.1	1045.8	1044.8	1043.0	1041.2	1039.4	1037.6
142.5°	1085.1	1084.9	1084.0	1082.6	1081.2	1079.9	1078.5
145°	1142.5	1142.3	1141.6	1140.6	1139.5	1138.5	1137.5
147.5°	1197.0	1197.0	1196.2	1194.6	1193.1	1191.5	1190.0
150°	1230.4	1230.4	1229.7	1228.1	1226.6	1225.0	1223.5
152.5°	1261.4	1261.8	1261.4	1260.0	1258.7	1257.3	1256.0
155°	1306.7	1307.8	1307.4	1305.6	1303.8	1302.0	1300.1
157.5°	1345.2	1346.3	1346.1	1344.7	1343.2	1341.8	1340.3
160°	1369.1	1370.4	1370.5	1369.5	1368.4	1367.4	1366.4
162.5°	1391.4	1392.7	1392.5	1390.8	1389.2	1387.5	1385.9
165°	1419.8	1421.4	1421.2	1419.4	1417.6	1415.8	1414.0
167.5°	1442.7	1444.3	1444.3	1442.7	1441.1	1439.5	1437.9
170°	1455.5	1457.3	1457.3	1455.5	1453.6	1451.8	1450.0
172.5°	1465.1	1466.7	1466.6	1464.7	1462.9	1461.1	1459.3
175°	1475.6	1477.1	1477.0	1475.2	1473.4	1471.6	1469.8
177.5°	1480.0	1481.2	1481.1	1479.7	1478.2	1476.8	1475.4
180°	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1

(END OF REPORT)